

Appendix 1. Experiment 1. Benchmark Scenario 1. Compute and plot sensitivity of various World3 variables to Life_Expectancy1.Lifet_Mlt_Hlth_Serv_ 2.y_vals values.

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Author: J. K. Horner
email: jhorner@cybermesa.com

Platform:

Windows 10

Wolfram Mathematica Home Version v13.1, dynamic updating enabled

Wolfram SystemModeler v12.0

Open Modelica v3.2.2

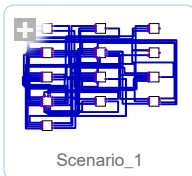
Microsoft Visual C++, version-compatible with the above

Load Benchmark Scenario 1.

In[28]=

```
mysim = SystemModel["SystemDynamics.WorldDynamics.World3.Scenario_1"]
```

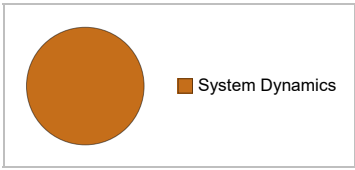
Out[28]=



Show high-level properties of the scenario.

In[29]:= **mysummary = mysim["Summary"]**

Out[29]=

Model	SystemDynamics.WorldDynamics.World3.Scenario_1
Description	Original WORLD3 model
Simulation Interval	True
Plot	0
Cell Count	106
Backend	True
Simulation Years	265
Simulation Days	265
Diagram	

Set percent variation. 0.1 = nominal +/- 10%.

In[30]:= **percentvar = 0.1**

Out[30]=

0.1

Show the default **Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals**.

In[31]:= **SystemModel[mysim] [**
{"ParameterValues", "Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[1]"}]

Out[31]=

{Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[1] → 1}

In[32]:= **SystemModel[mysim] [**
{"ParameterValues", "Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[2]"}]

Out[32]=

{Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[2] → 1.5}

In[33]:= **SystemModel[mysim] [**
{"ParameterValues", "Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[3]"}]

Out[33]=

{Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[3] → 1.9}

```

In[34]:= SystemModel[mysim] [
  {"ParameterValues", "Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[4]"}]
Out[34]=
{Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[4] → 2}

In[35]:= SystemModel[mysim] [
  {"ParameterValues", "Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[5]"}]
Out[35]=
{Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[5] → 2}

In[36]:= SystemModel[mysim] [
  {"ParameterValues", "Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[6]"}]
Out[36]=
{Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[6] → 2}

In[37]:= SystemModel[mysim] [
  {"ParameterValues", "Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[7]"}]
Out[37]=
{Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[7] → 2}

```

Retrieve all variables that **SystemModelSimulateSensitivity** says depend on **Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals**. Set scenario start at 1950 because various **SystemModel** functions have problems with a step function at scenario time 1940. (This is a World3-specific quirk.)

```

In[38]:= simsensdata = SystemModelSimulateSensitivity[mysim,
  {1950, 2100}, {"Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[1]",
  "Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[2]",
  "Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[3]",
  "Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[4]",
  "Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[5]",
  "Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[6]",
  "Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[7]"}]
Out[38]=

```

SystemModelSimulationData [ Model: Scenario_1
Time: 1.95×10^3 to 2.10×10^3]

Show the names of the World3 variables in **simsensdata** that **SystemModelSimulateSensitivity** recognizes.

```

In[39]:= simsensdata["SensitivityNames"]
Out[39]=
{{Arable_Land_Dynamics1.Arable_Land.Integrator1.y,
  Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[1]},
 {Arable_Land_Dynamics1.Arable_Land.Integrator1.y,
  Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[2]},
 {Arable_Land_Dynamics1.Arable_Land.Integrator1.y,
  Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[3]},

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{Arable_Land_Dynamics1.Arable_Land.Integrator1.y,
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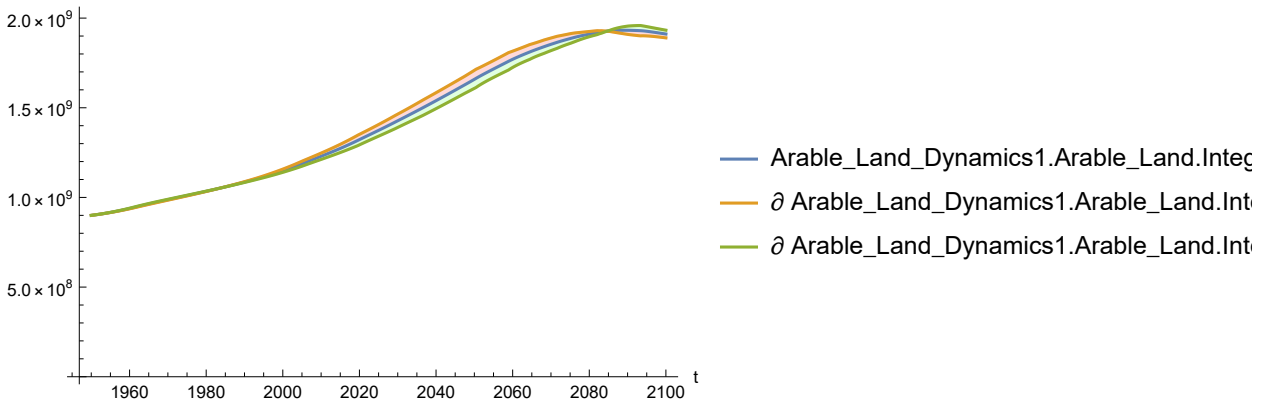
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 Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[7]}}
```

Programming note: in Mathematica, the following list of **SystemModelPlot** instructions could be replaced by a loop or iteration construct that cycles over **simsensdata**. The resulting source code would be elegant, but upon execution it turns out to have dynamic updating issues that the Platform described above does not handle well.

Plot the sensitivity of `Arable_Land_Dynamics1.Arable_Land.Integrator1.y` to `Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals`.

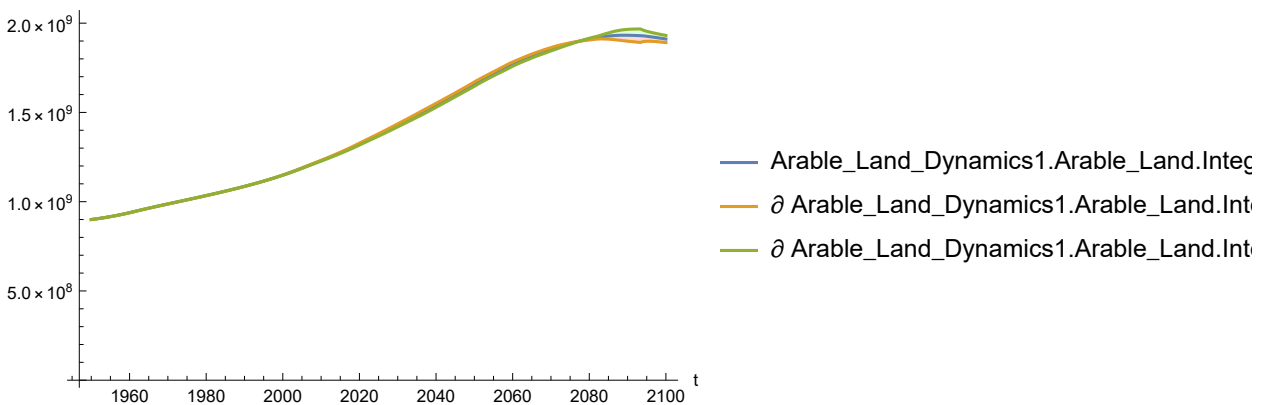
```
In[40]:= SystemModelPlot[simsensdata, {"Arable_Land_Dynamics1.Arable_Land.Integrator1.y",
 "Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[1]", percentvar}]
```

Out[40]=



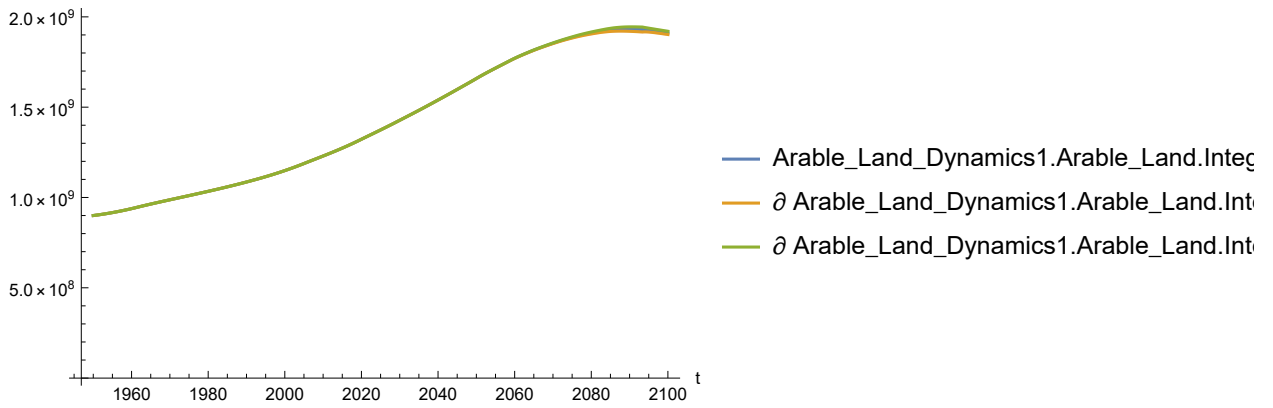
```
In[41]:= SystemModelPlot[simsensdata, {"Arable_Land_Dynamics1.Arable_Land.Integrator1.y",
 "Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[2]", percentvar}]
```

Out[41]=



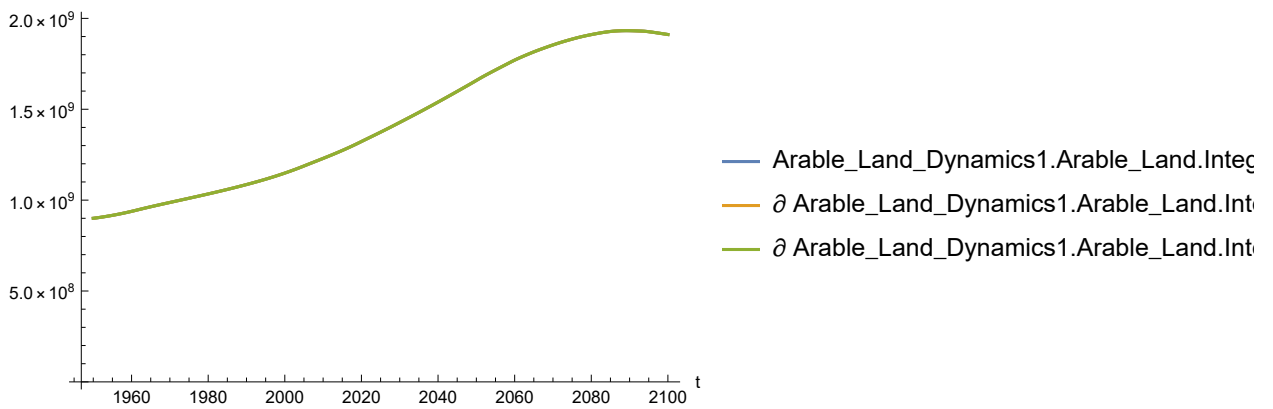

```
In[42]:= SystemModelPlot[simsensdata, {"Arable_Land_Dynamics1.Arable_Land.Integrator1.y",
"Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[3]", percentvar}]
```

Out[42]=



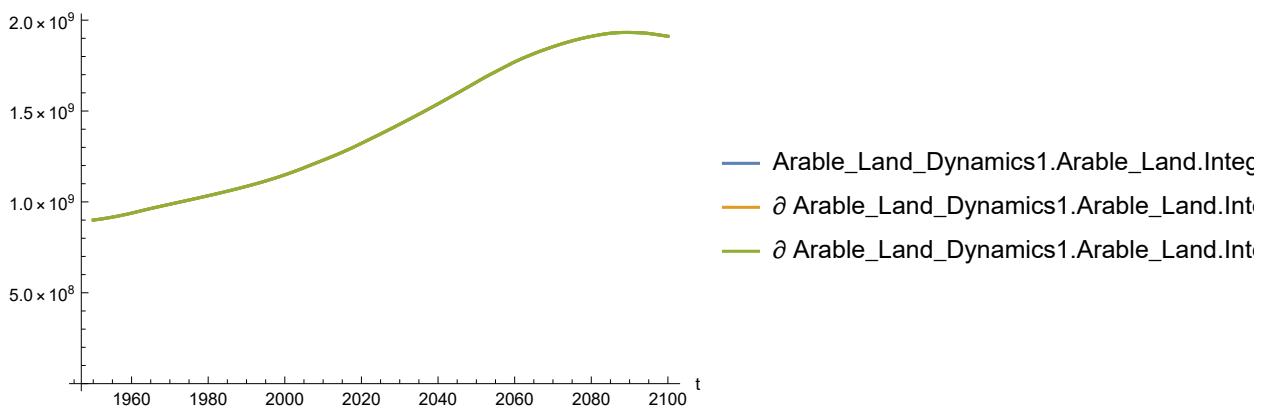
```
In[43]:= SystemModelPlot[simsensdata, {"Arable_Land_Dynamics1.Arable_Land.Integrator1.y",
"Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[4]", percentvar}]
```

Out[43]=



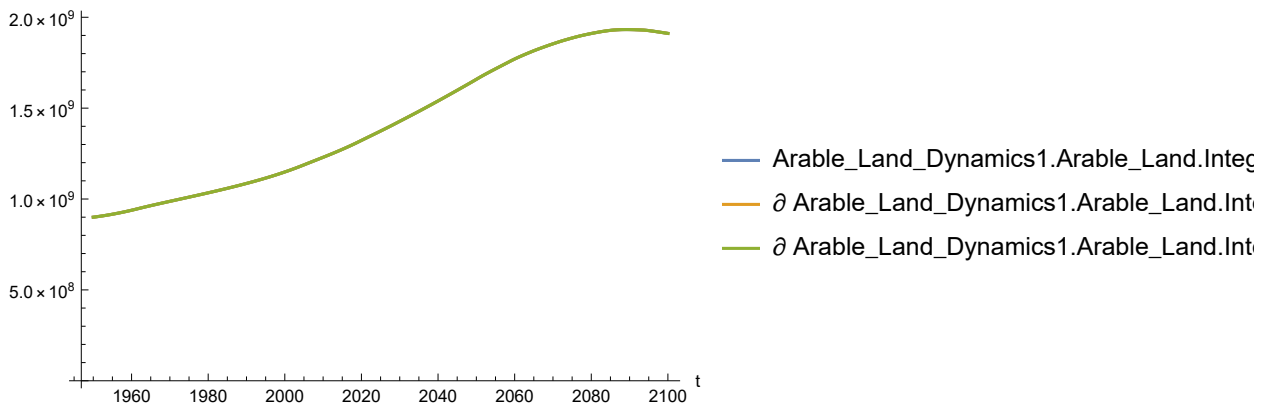
```
In[44]:= SystemModelPlot[simsensdata, {"Arable_Land_Dynamics1.Arable_Land.Integrator1.y",
"Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[5]", percentvar}]
```

Out[44]=



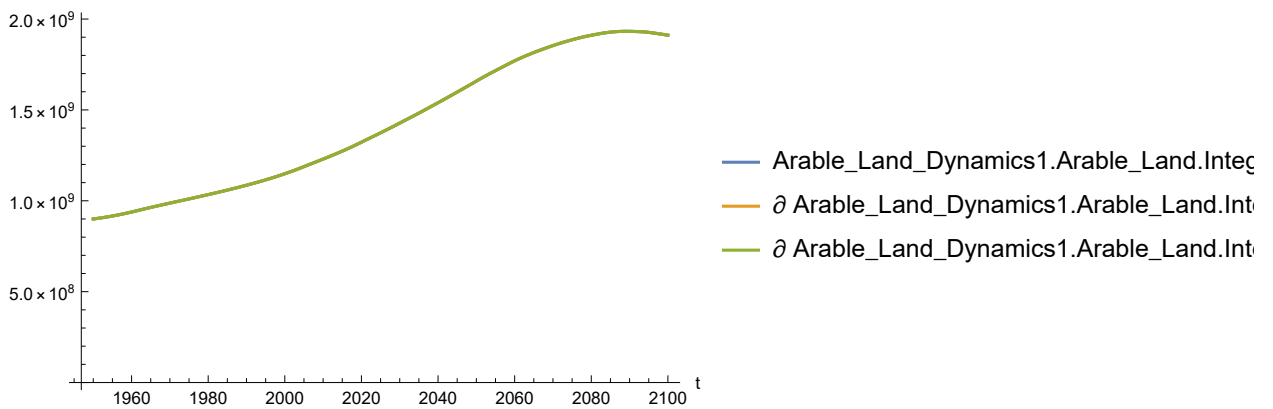
```
In[45]:= SystemModelPlot[simsensdata, {"Arable_Land_Dynamics1.Arable_Land.Integrator1.y",
"Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[6]", percentvar}]
```

Out[45]=



```
In[46]:= SystemModelPlot[simsensdata, {"Arable_Land_Dynamics1.Arable_Land.Integrator1.y",
"Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[7]", percentvar}]
```

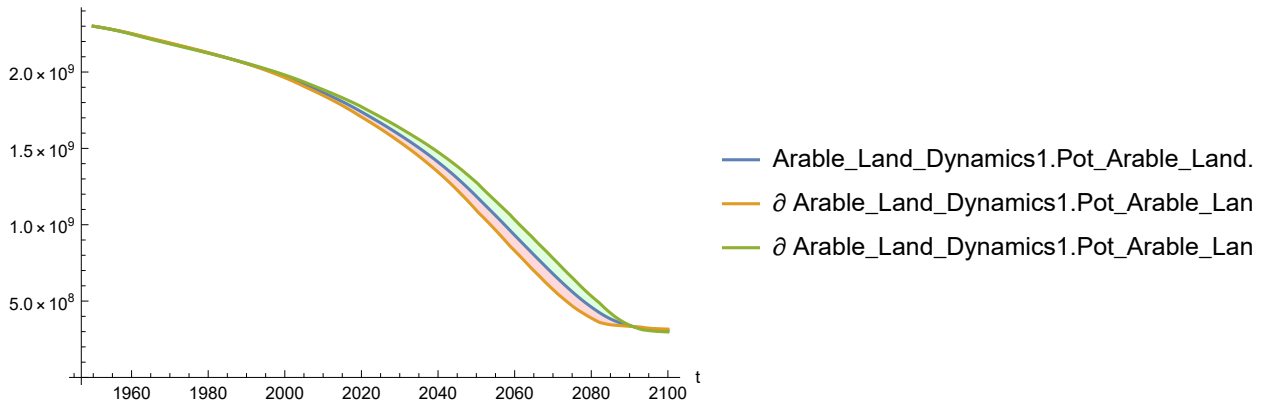
Out[46]=



Plot the sensitivity of `Arable_Land_Dynamics1.Pot_Arable_Land.Integrator1.y` to `Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals`.

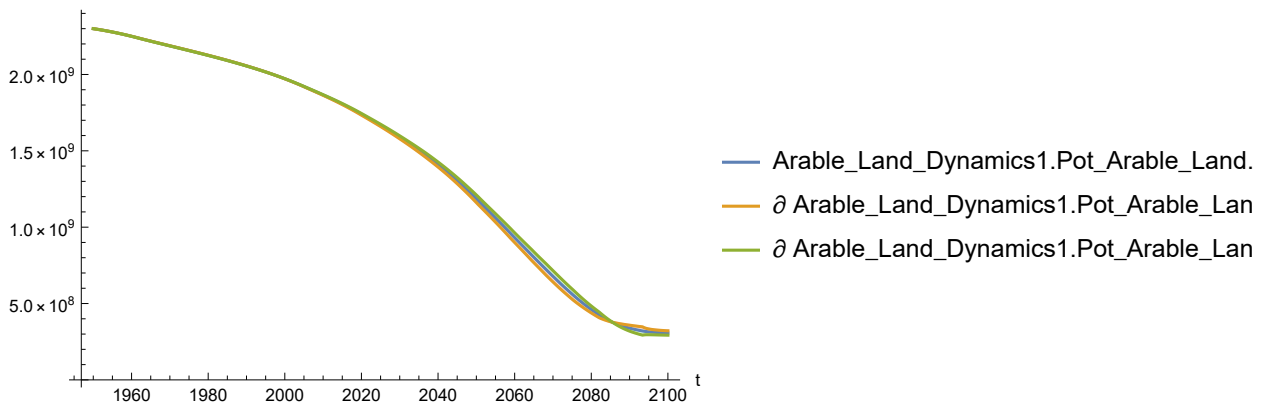
```
In[47]:= SystemModelPlot[simsensdata, {"Arable_Land_Dynamics1.Pot_Arable_Land.Integrator1.y",
"Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[1]", percentvar}]
```

Out[47]=



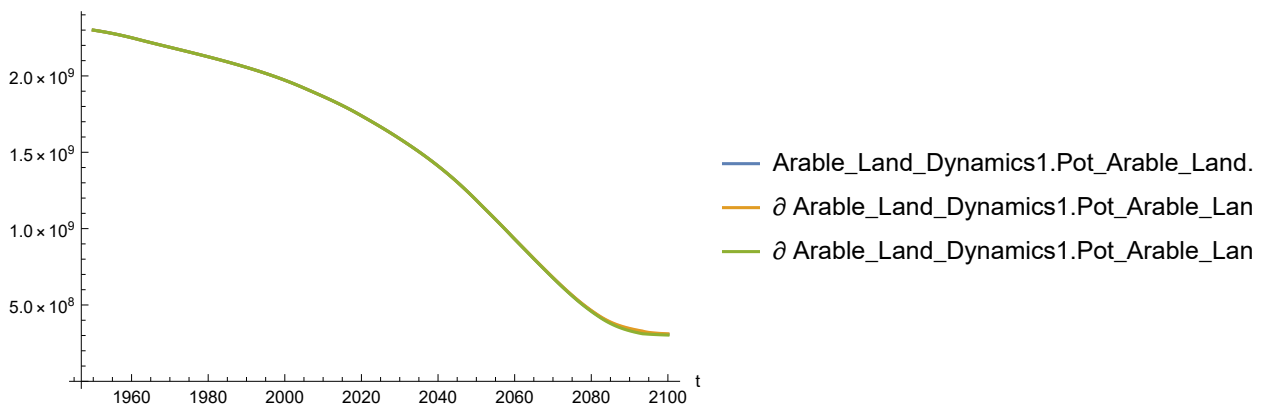
```
In[48]:= SystemModelPlot[simsensdata, {"Arable_Land_Dynamics1.Pot_Arable_Land.Integrator1.y",
"Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[2]", percentvar}]
```

Out[48]=



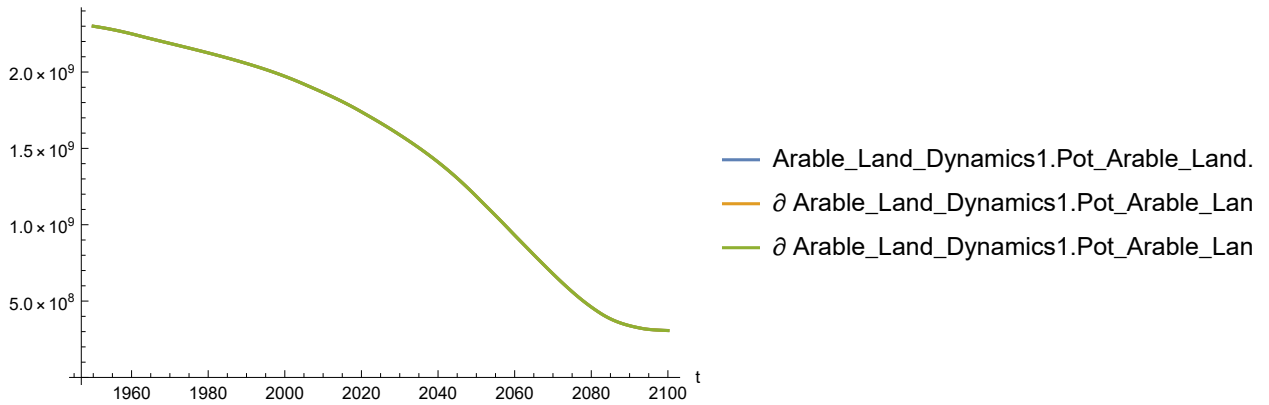
```
In[49]:= SystemModelPlot[simsensdata, {"Arable_Land_Dynamics1.Pot_Arable_Land.Integrator1.y",
"Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[3]", percentvar}]
```

Out[49]=



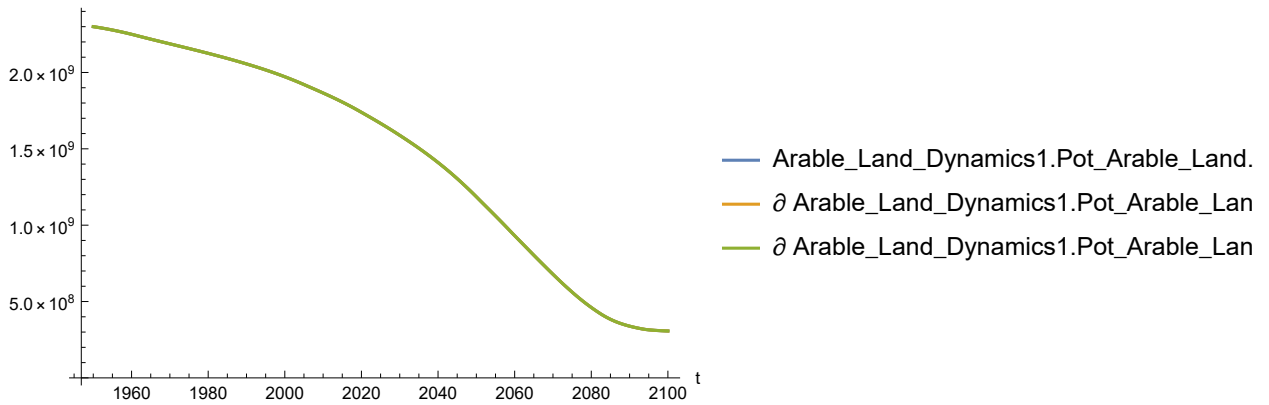
```
In[50]:= SystemModelPlot[simsensdata, {"Arable_Land_Dynamics1.Pot_Arable_Land.Integrator1.y",
"Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[4]", percentvar}]
```

Out[50]=



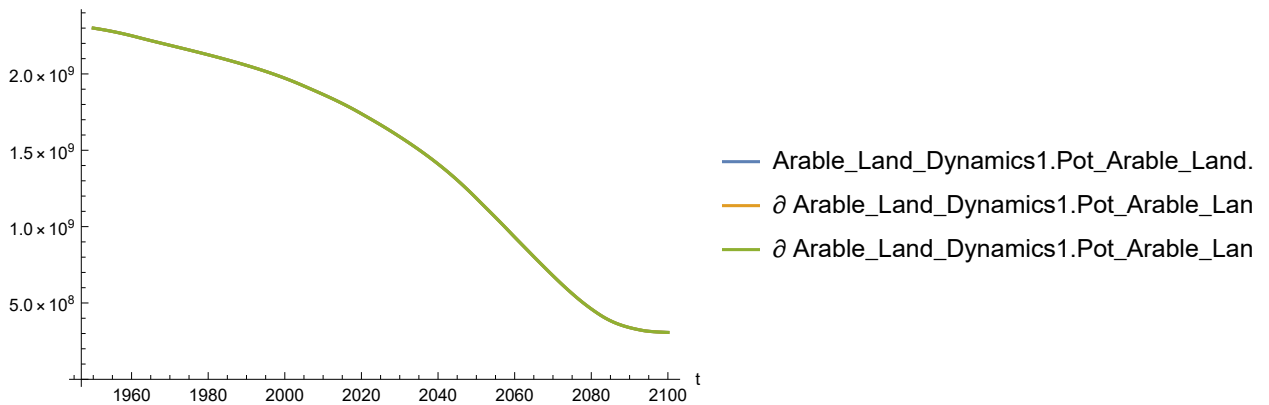
```
In[51]:= SystemModelPlot[simsensdata, {"Arable_Land_Dynamics1.Pot_Arable_Land.Integrator1.y",
"Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[5]", percentvar}]
```

Out[51]=



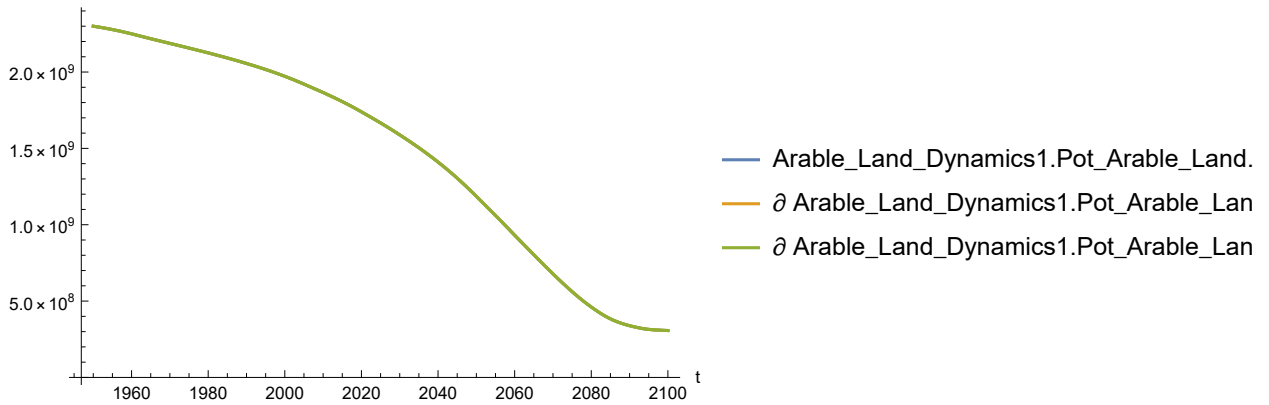
```
In[52]:= SystemModelPlot[simsensdata, {"Arable_Land_Dynamics1.Pot_Arable_Land.Integrator1.y",
"Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[6]", percentvar}]
```

Out[52]=



```
In[53]:= SystemModelPlot[simsensdata, {"Arable_Land_Dynamics1.Pot_Arable_Land.Integrator1.y",
"Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[7]", percentvar}]
```

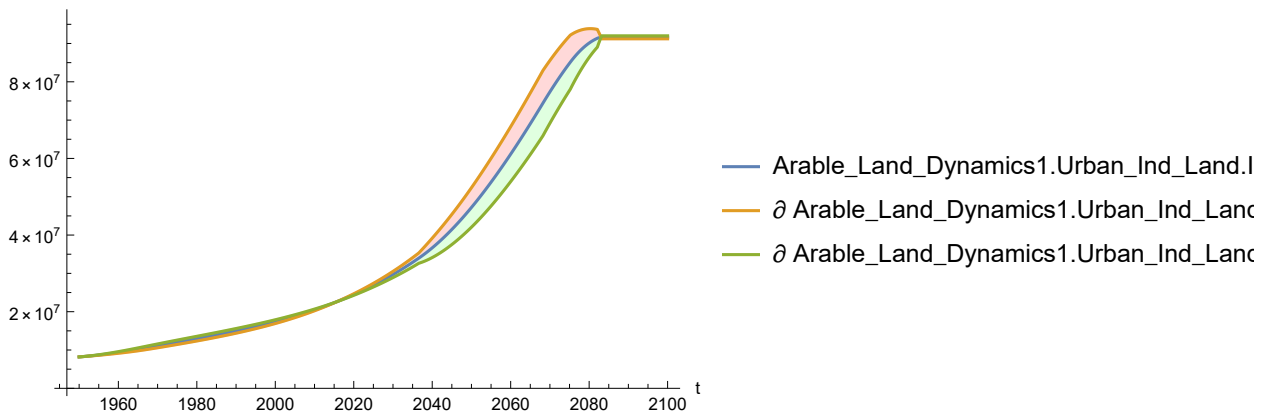
Out[53]=



Plot the sensitivity of Arable_Land_Dynamics1.Urban_Ind_Land.Integrator1.y to Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals.

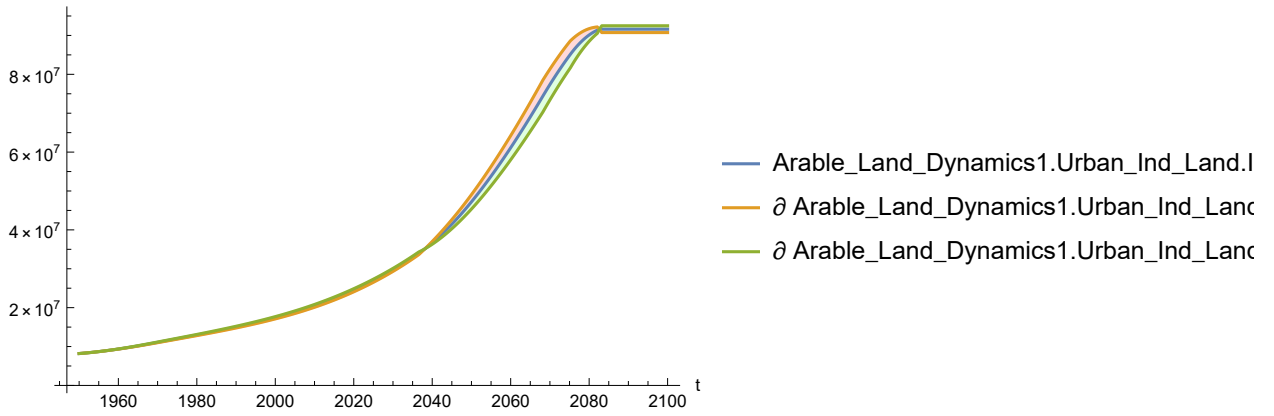
```
In[54]:= SystemModelPlot[simsensdata, {"Arable_Land_Dynamics1.Urban_Ind_Land.Integrator1.y",
"Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[1]", percentvar}]
```

Out[54]=



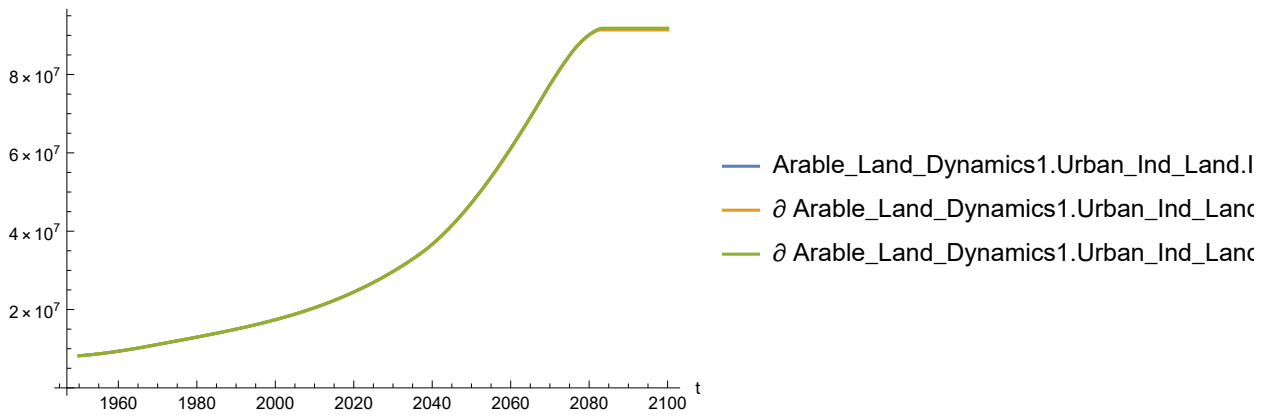
```
In[55]:= SystemModelPlot[simsensdata, {"Arable_Land_Dynamics1.Urban_Ind_Land.Integrator1.y",
"Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[2]", percentvar}]
```

Out[55]=



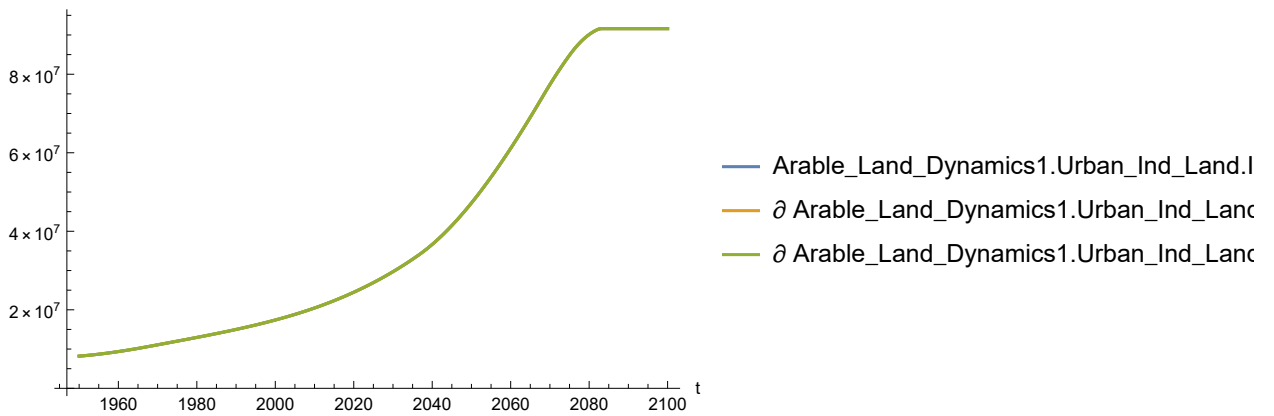
```
In[56]:= SystemModelPlot[simsensdata, {"Arable_Land_Dynamics1.Urban_Ind_Land.Integrator1.y",
"Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[3]", percentvar}]
```

Out[56]=



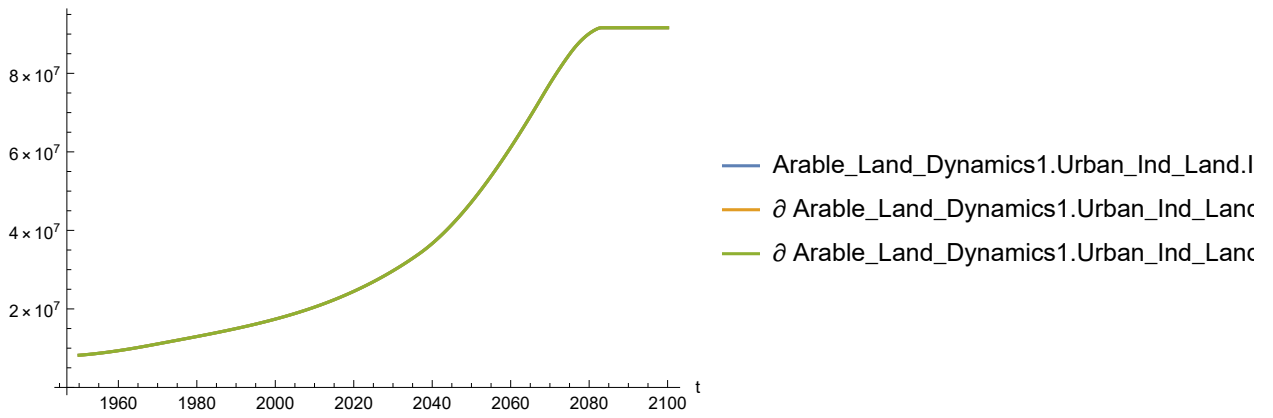
```
In[57]:= SystemModelPlot[simsensdata, {"Arable_Land_Dynamics1.Urban_Ind_Land.Integrator1.y",
"Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[4]", percentvar}]
```

Out[57]=



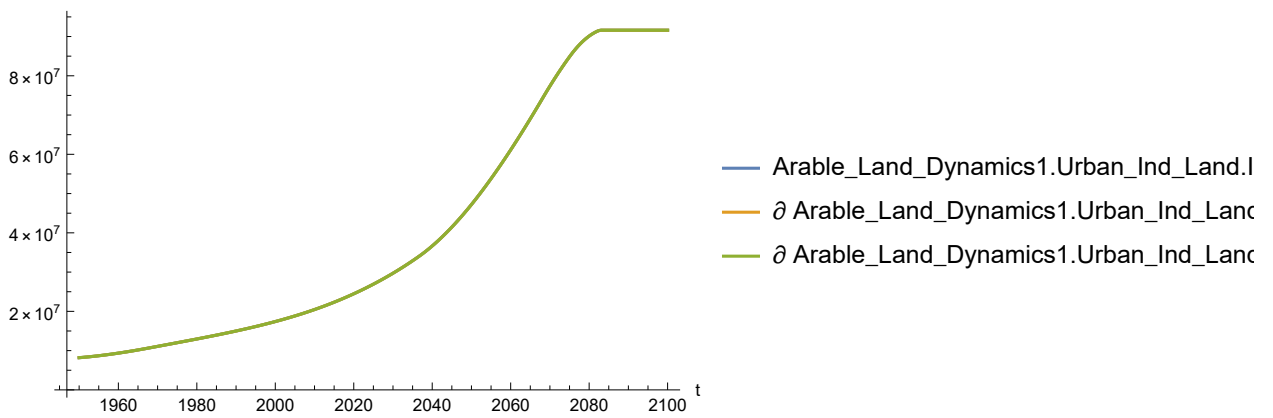
```
In[58]:= SystemModelPlot[simsensdata, {"Arable_Land_Dynamics1.Urban_Ind_Land.Integrator1.y",
"Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[5]", percentvar}]
```

Out[58]=



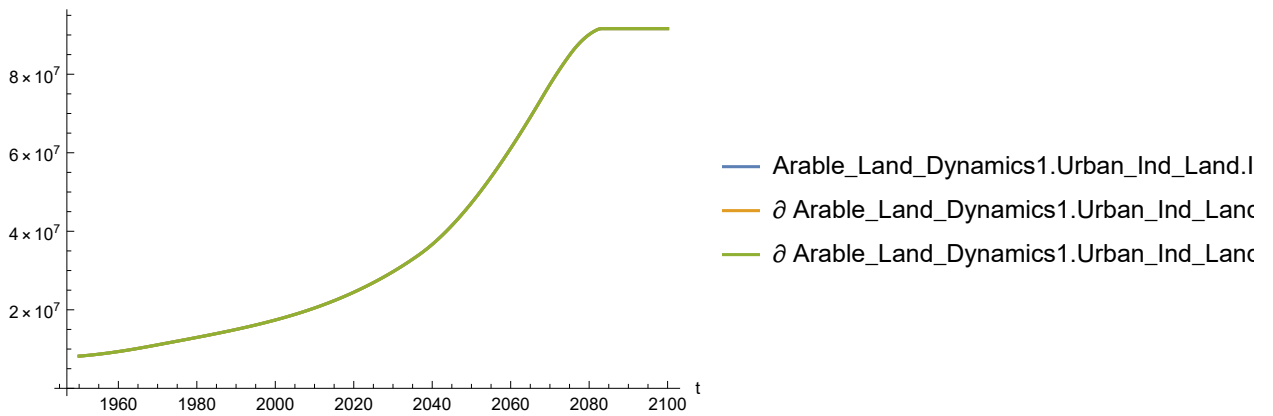
```
In[59]:= SystemModelPlot[simsensdata, {"Arable_Land_Dynamics1.Urban_Ind_Land.Integrator1.y",
"Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[6]", percentvar}]
```

Out[59]=



```
In[60]:= SystemModelPlot[simsensdata, {"Arable_Land_Dynamics1.Urban_Ind_Land.Integrator1.y",
"Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[7]", percentvar}]
```

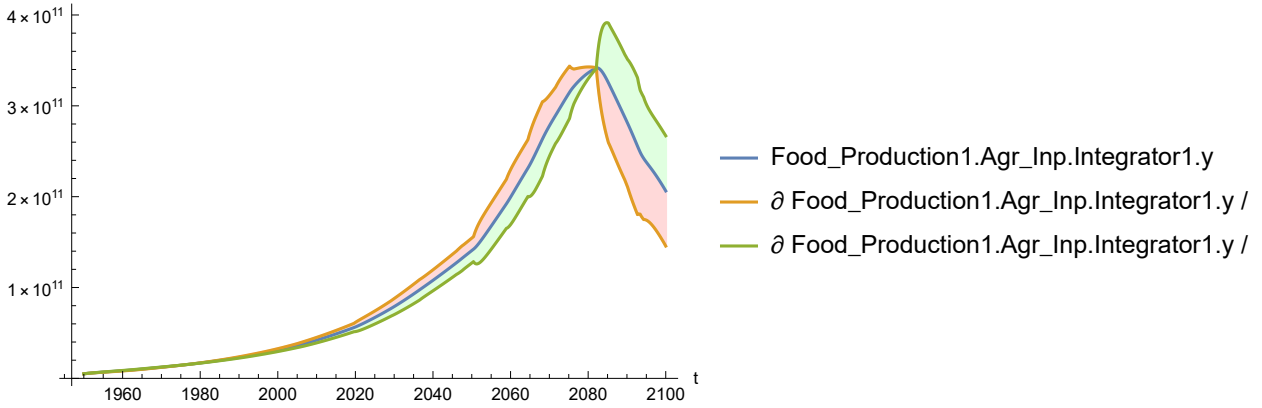
Out[60]=



Plot sensitivity of Food_Production.Agr_Inp.Integrator1.y to **Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals**.

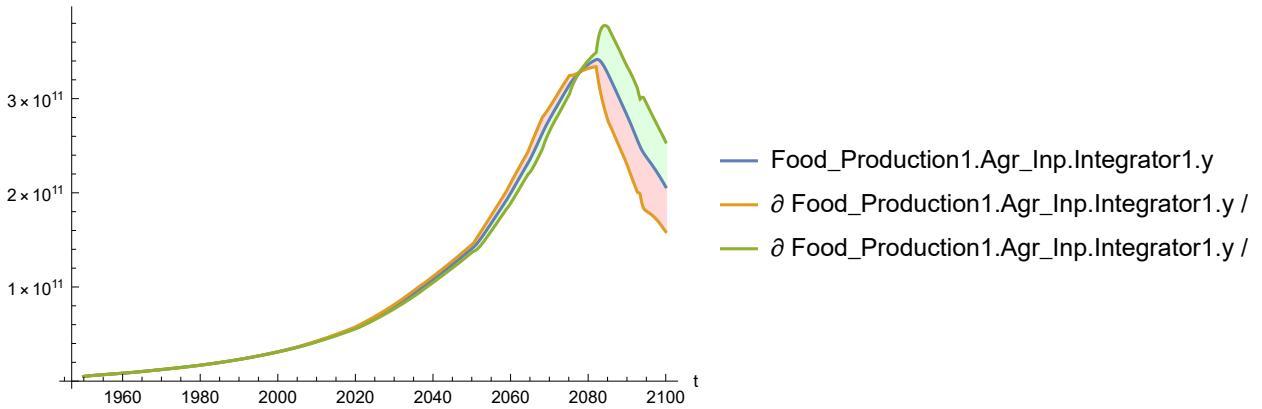
```
In[61]:= SystemModelPlot[simsensdata, {"Food_Production1.Agr_Inp.Integrator1.y",
  "Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[1]", percentvar}]
```

Out[61]=



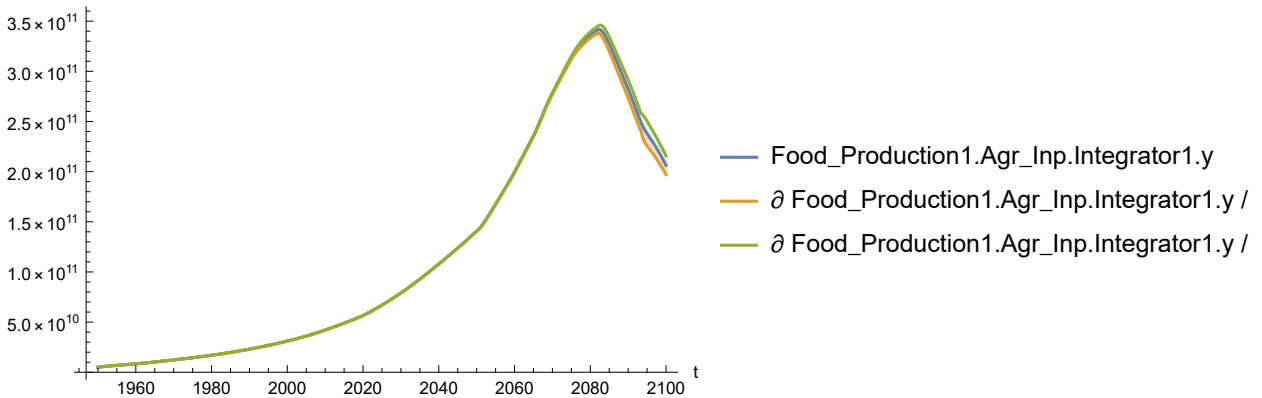
```
In[62]:= SystemModelPlot[simsensdata, {"Food_Production1.Agr_Inp.Integrator1.y",
  "Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[2]", percentvar}]
```

Out[62]=



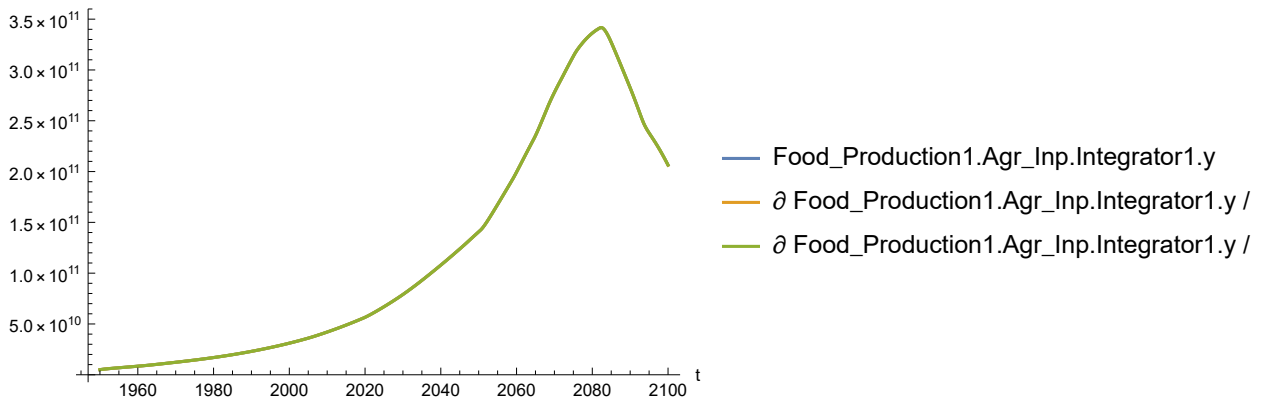
```
In[63]:= SystemModelPlot[simsensdata, {"Food_Production1.Agr_Inp.Integrator1.y",
  "Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[3]", percentvar}]
```

Out[63]=



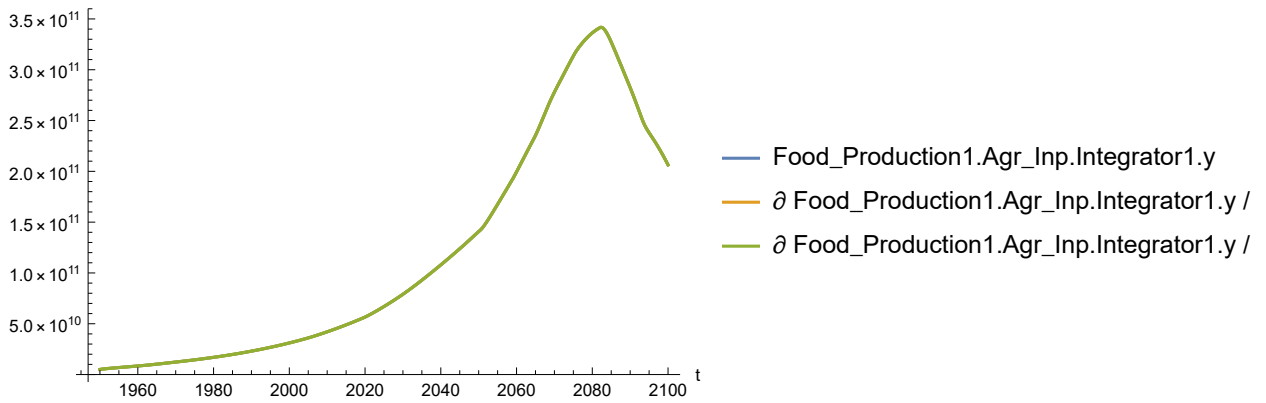

```
In[64]:= SystemModelPlot[simsensdata, {"Food_Production1.Agr_Inp.Integrator1.y",
"Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[4]", percentvar}]
```

Out[64]=



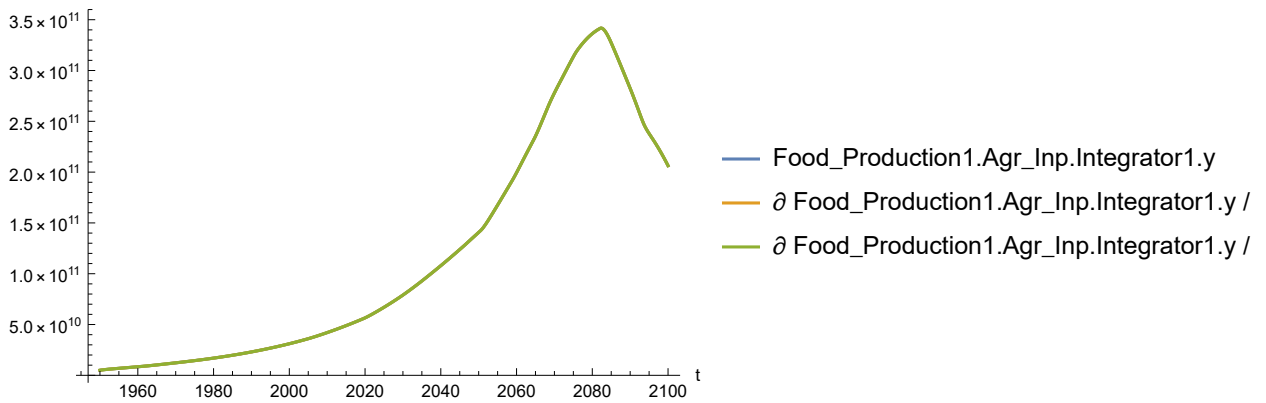
```
In[65]:= SystemModelPlot[simsensdata, {"Food_Production1.Agr_Inp.Integrator1.y",
"Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[5]", percentvar}]
```

Out[65]=



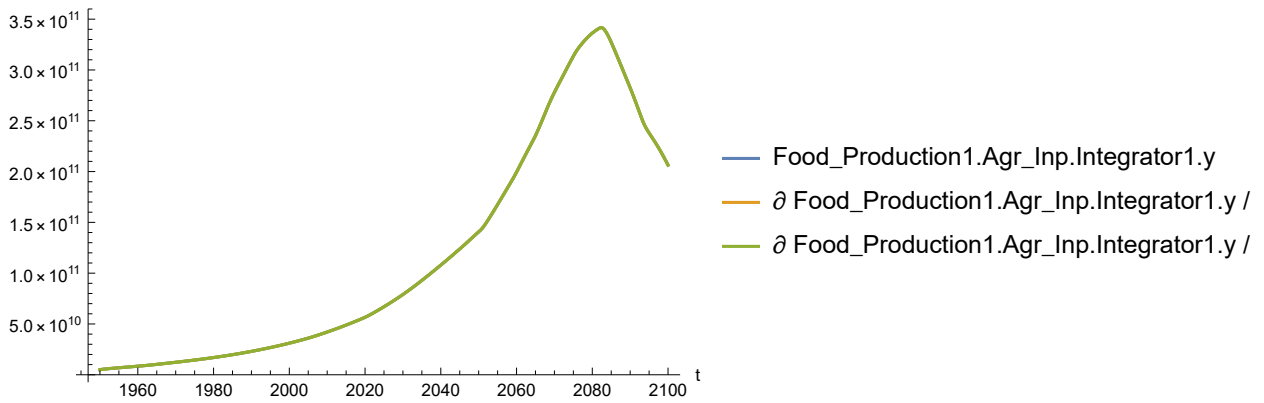
```
In[66]:= SystemModelPlot[simsensdata, {"Food_Production1.Agr_Inp.Integrator1.y",
"Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[6]", percentvar}]
```

Out[66]=



```
In[67]:= SystemModelPlot[simsensdata, {"Food_Production1.Agr_Inp.Integrator1.y",
"Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[7]", percentvar}]
```

Out[67]=

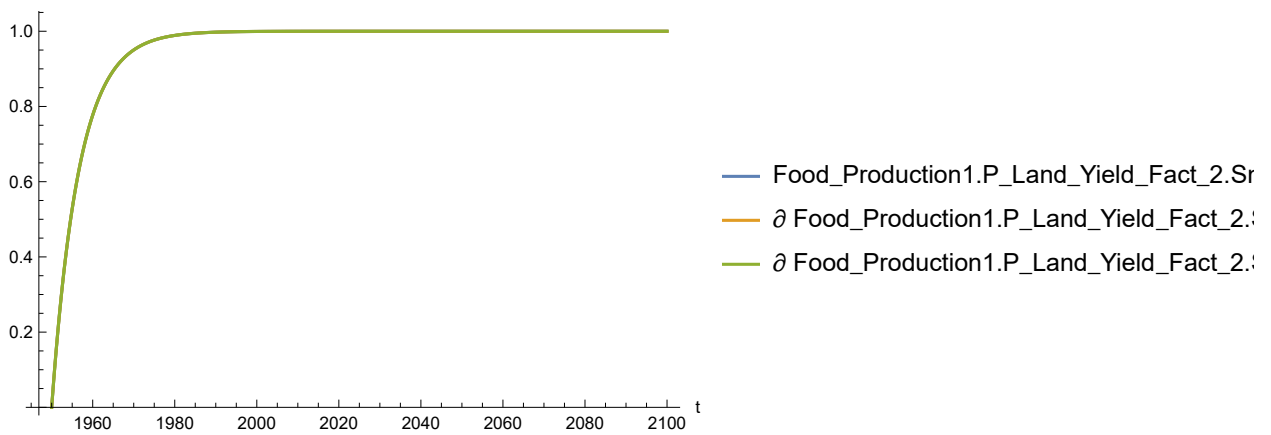


Plot sensitivity of **Food_Production1.P_Land_Yield_Fact2** to **Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals**.

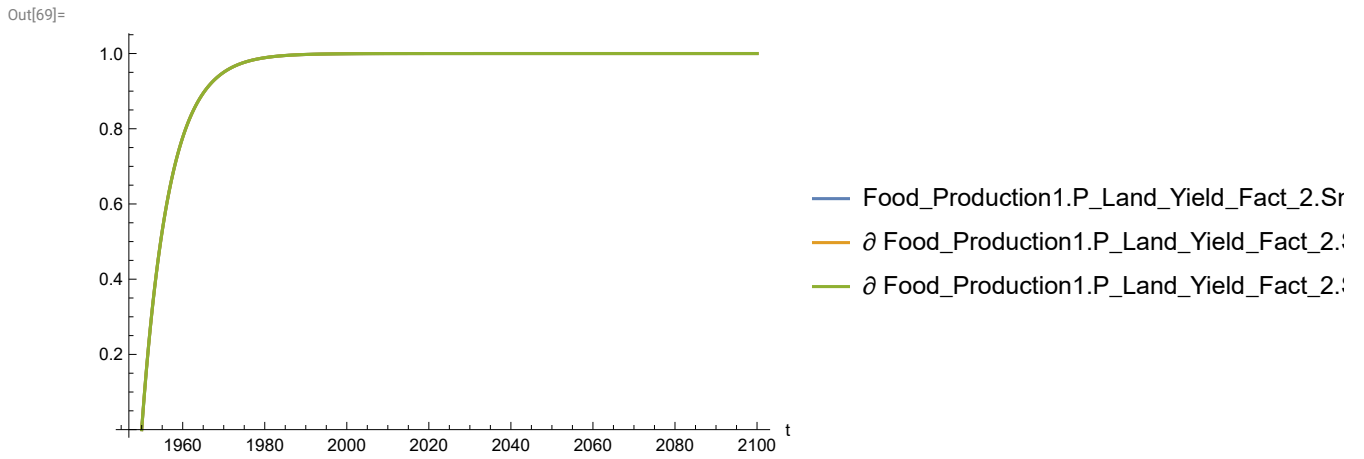
Plot the sensitivity of **Food_Production1.P_Land_Yield_Fact_2.SmoothN.Integrator1.y**, where $N = 1, 2, 3$, to variation in **Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals**.

```
In[68]:= SystemModelPlot[simsensdata,
{"Food_Production1.P_Land_Yield_Fact_2.Smooth1.Integrator1.y",
"Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[1]", percentvar}]
```

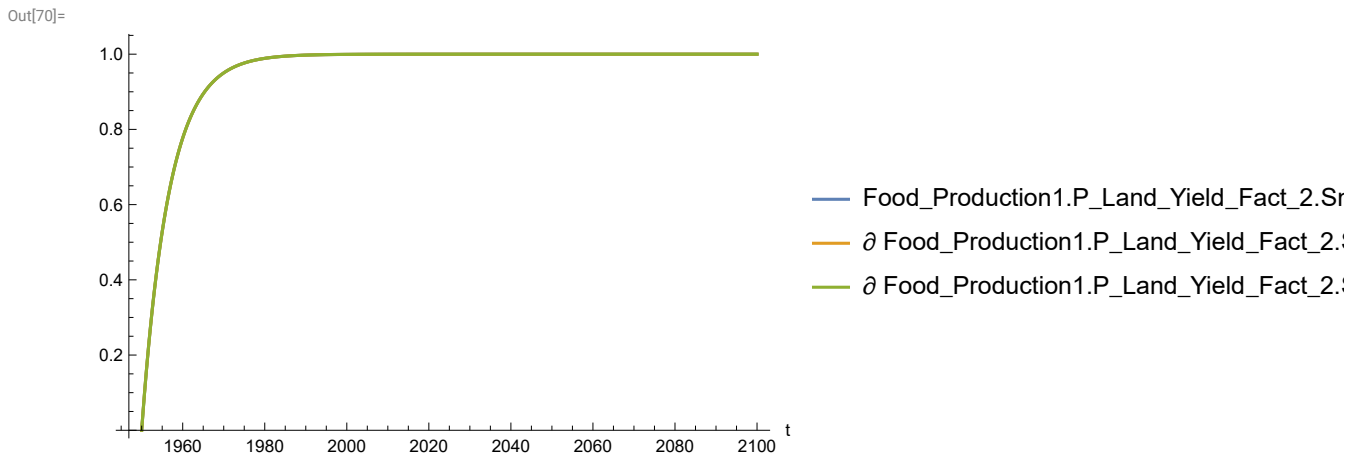
Out[68]=



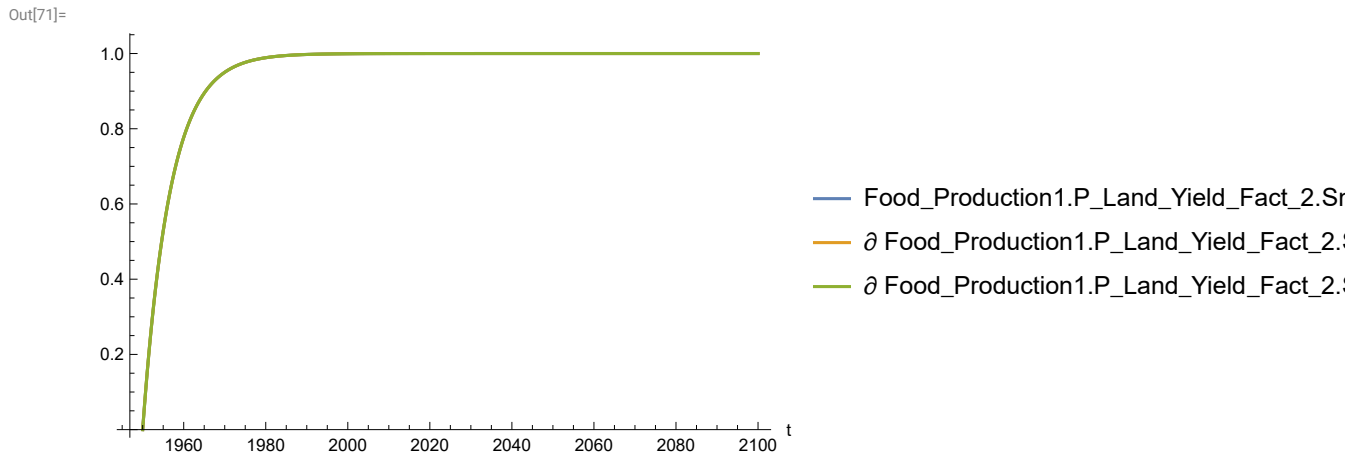
```
In[69]:= SystemModelPlot[simsensdata,
  {"Food_Production1.P_Land_Yield_Fact_2.Smooth1.Integrator1.y",
   "Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[2]", percentvar}]
```



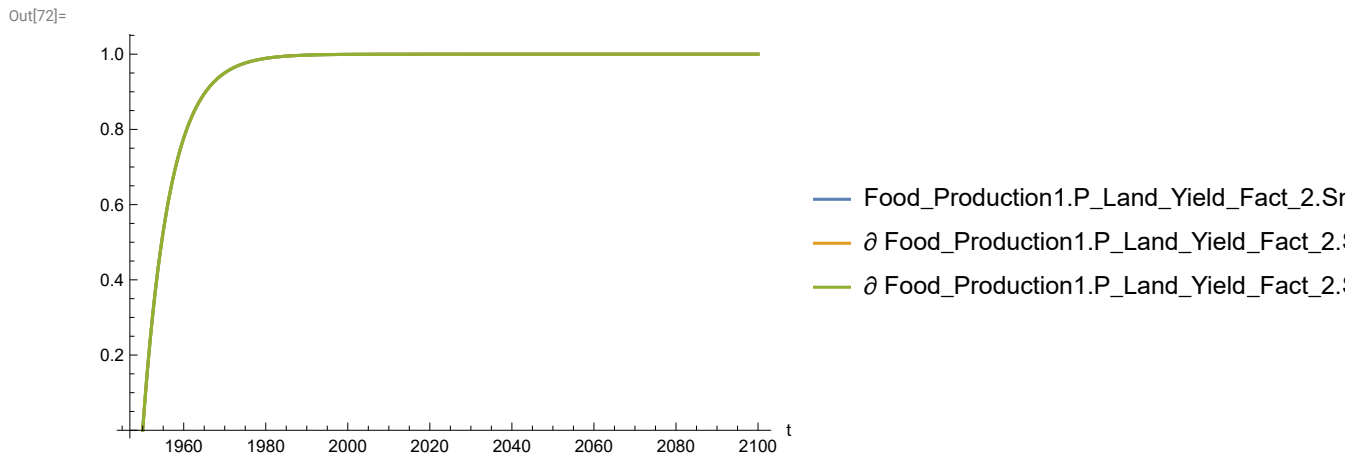
```
In[70]:= SystemModelPlot[simsensdata,
  {"Food_Production1.P_Land_Yield_Fact_2.Smooth1.Integrator1.y",
   "Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[3]", percentvar}]
```



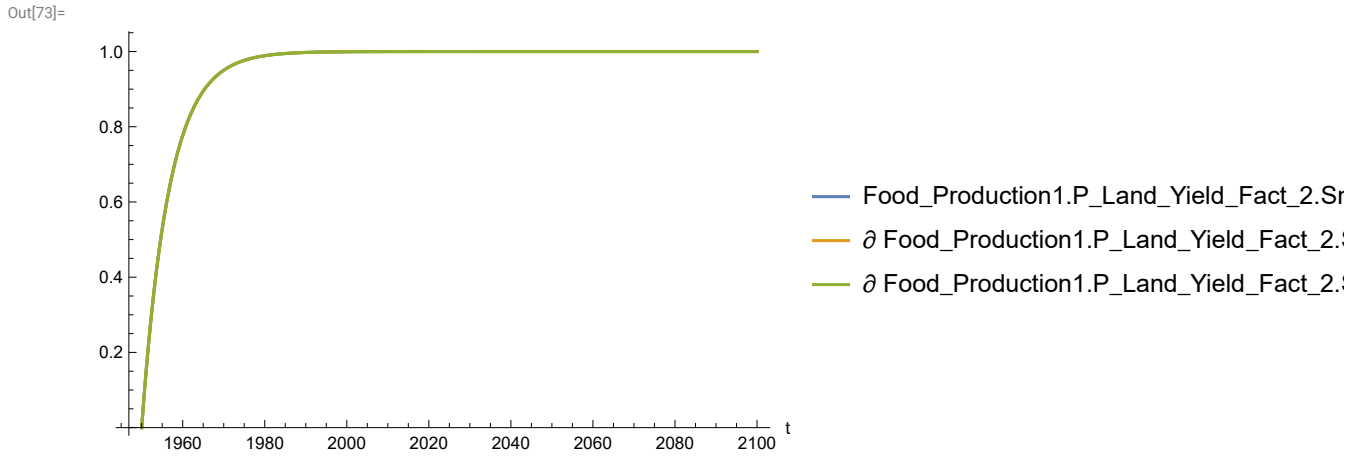
```
In[71]:= SystemModelPlot[simsensdata,
  {"Food_Production1.P_Land_Yield_Fact_2.Smooth1.Integrator1.y",
   "Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[4]", percentvar}]
```



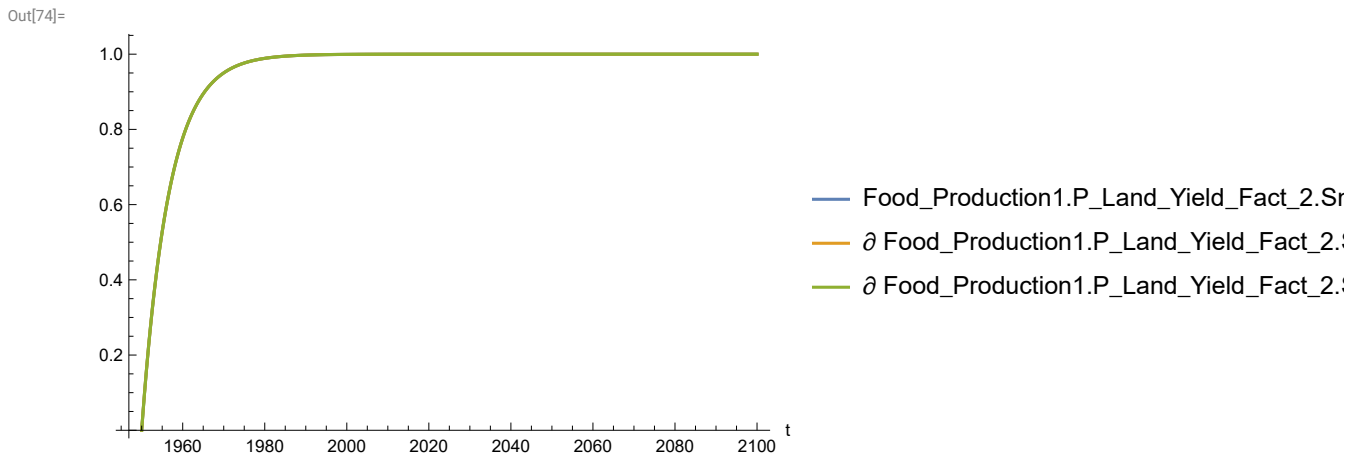
```
In[72]:= SystemModelPlot[simsensdata,
  {"Food_Production1.P_Land_Yield_Fact_2.Smooth1.Integrator1.y",
   "Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[5]", percentvar}]
```



```
In[73]:= SystemModelPlot[simsensdata,
  {"Food_Production1.P_Land_Yield_Fact_2.Smooth1.Integrator1.y",
   "Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[6]", percentvar}]
```

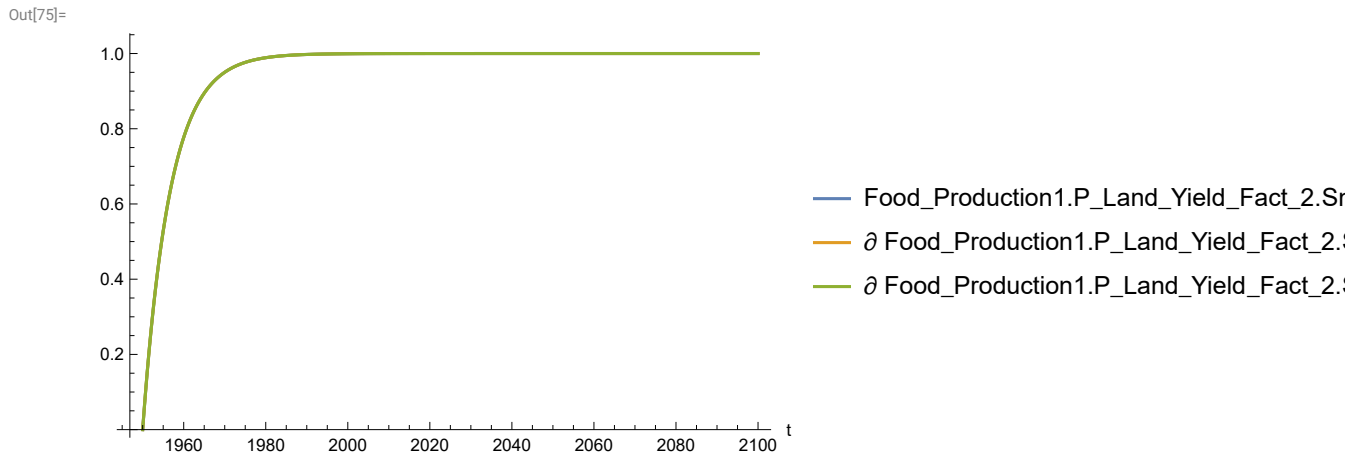


```
In[74]:= SystemModelPlot[simsensdata,
  {"Food_Production1.P_Land_Yield_Fact_2.Smooth1.Integrator1.y",
   "Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[7]", percentvar}]
```

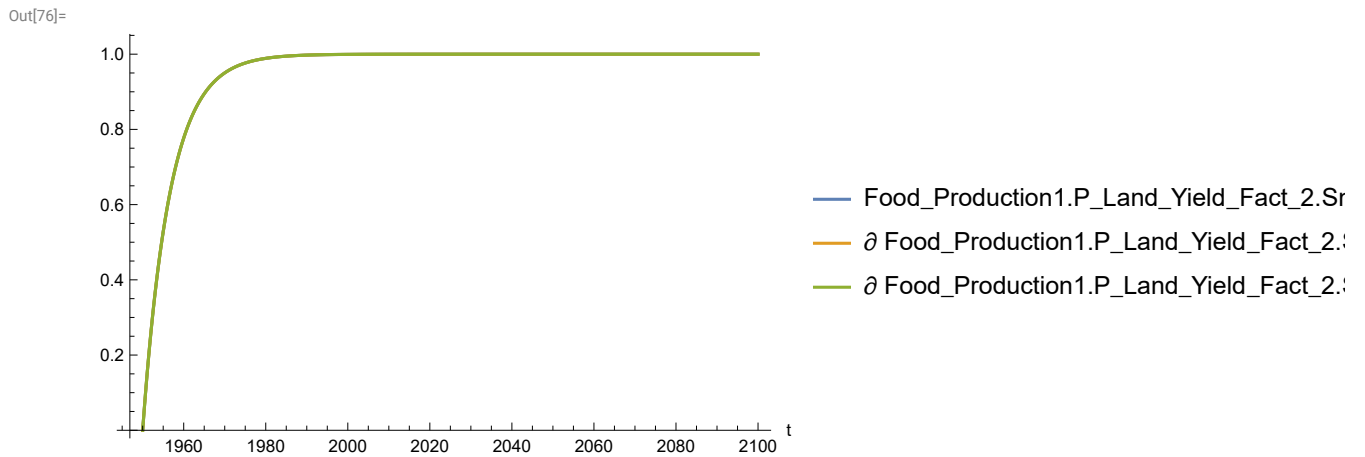


Plot the sensitivity of Food_Production1.P_Land_Yield_Fact_2.Smooth1.Integrator1.y to Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals.

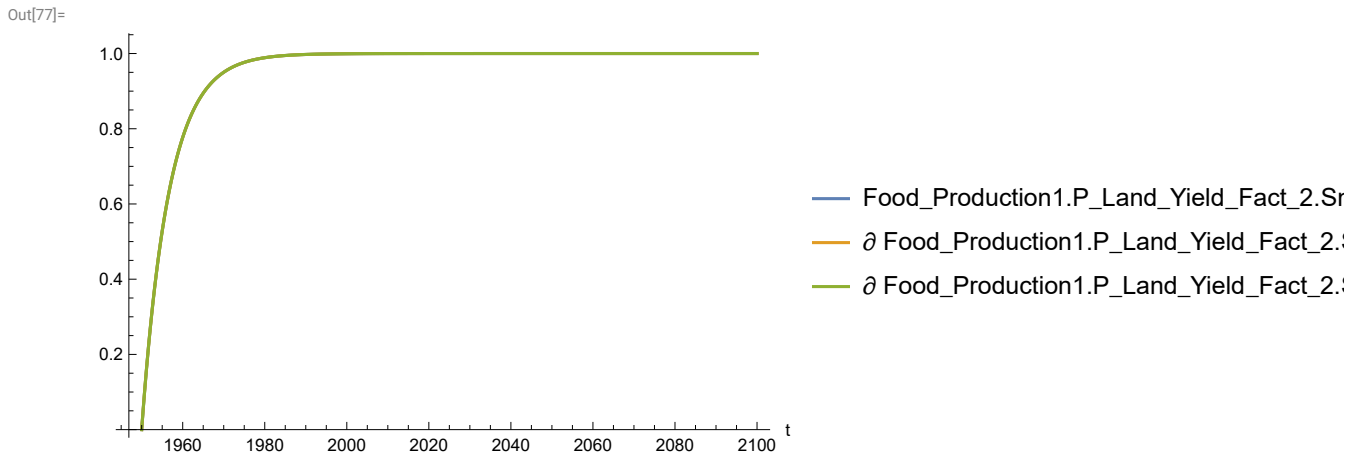
```
In[75]:= SystemModelPlot[simsensdata,
  {"Food_Production1.P_Land_Yield_Fact_2.Smooth1.Integrator1.y",
   "Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[1]", percentvar}]
```



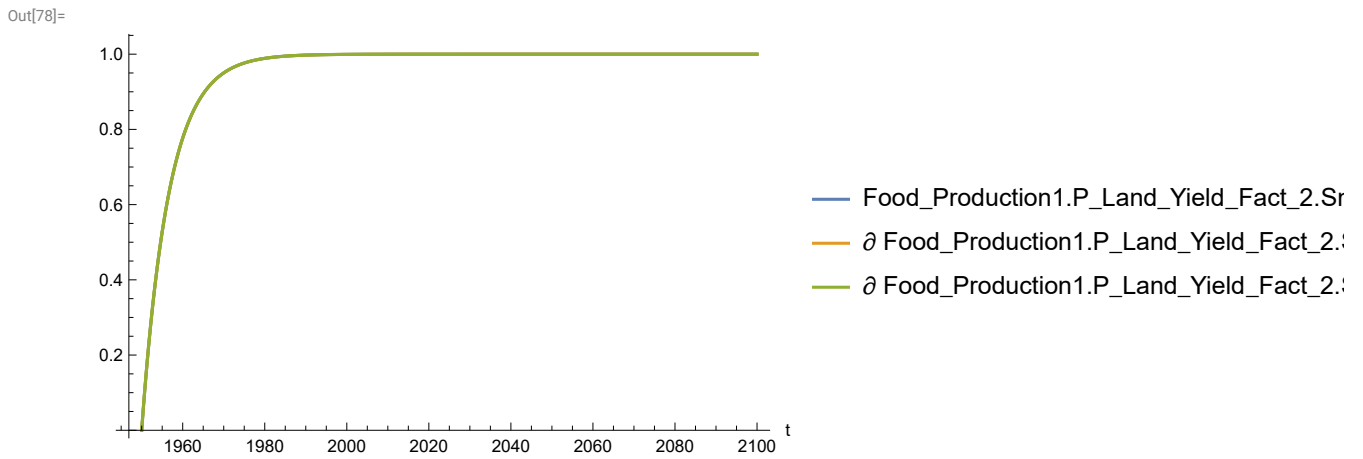
```
In[76]:= SystemModelPlot[simsensdata,
  {"Food_Production1.P_Land_Yield_Fact_2.Smooth1.Integrator1.y",
   "Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[2]", percentvar}]
```



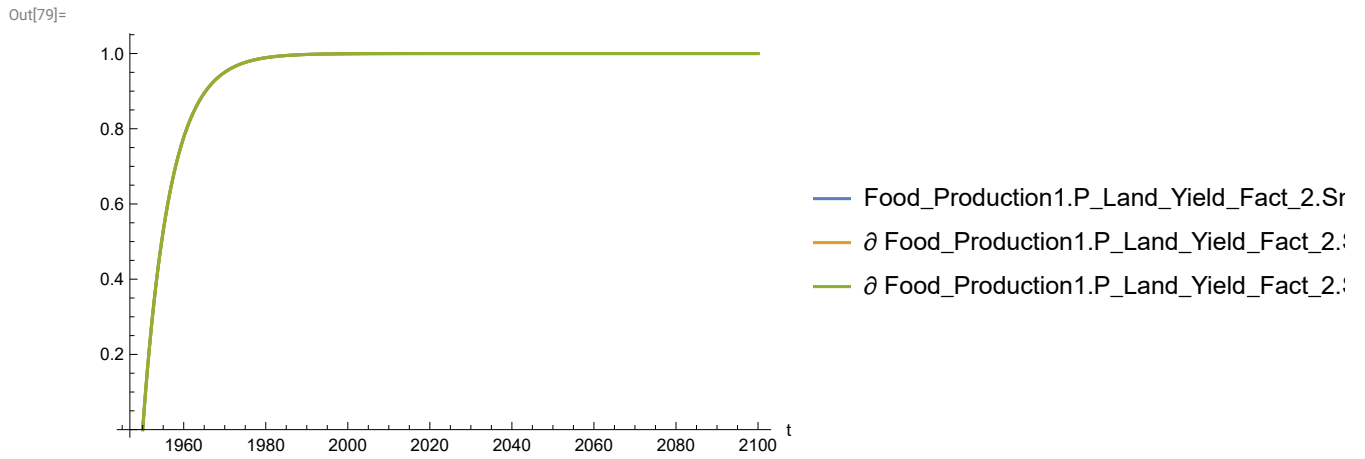
```
In[77]:= SystemModelPlot[simsensdata,
  {"Food_Production1.P_Land_Yield_Fact_2.Smooth1.Integrator1.y",
   "Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[3]", percentvar}]
```



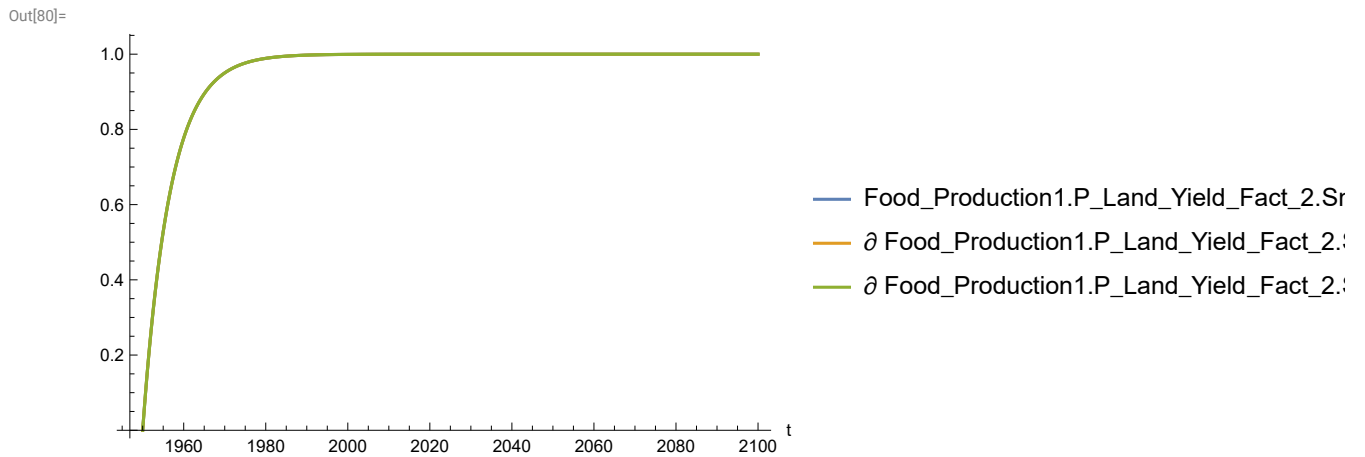
```
In[78]:= SystemModelPlot[simsensdata,
  {"Food_Production1.P_Land_Yield_Fact_2.Smooth1.Integrator1.y",
   "Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[4]", percentvar}]
```



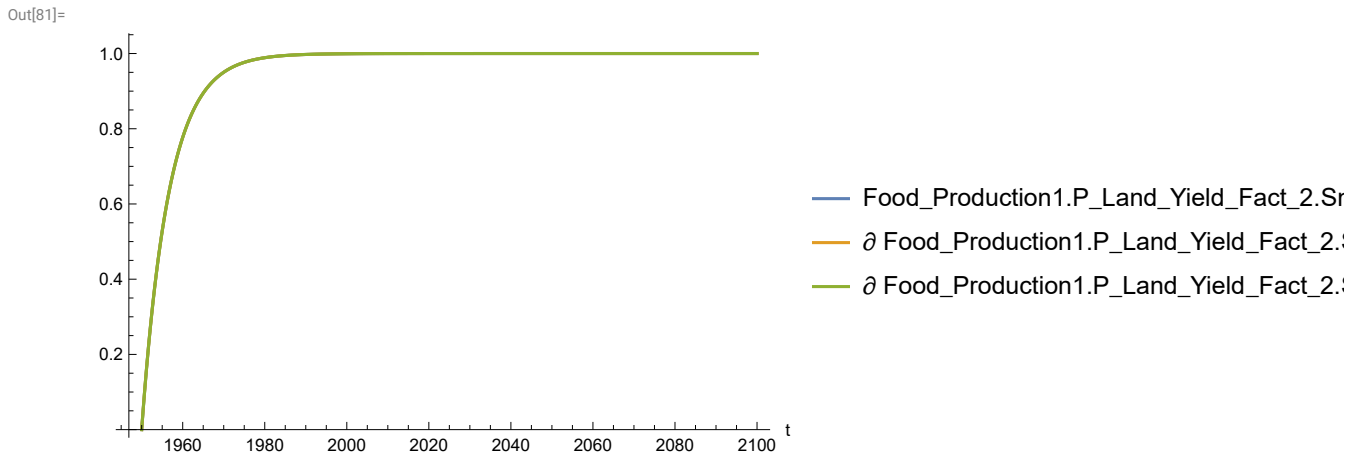
```
In[79]:= SystemModelPlot[simsensdata,
  {"Food_Production1.P_Land_Yield_Fact_2.Smooth1.Integrator1.y",
   "Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[5]", percentvar}]
```



```
In[80]:= SystemModelPlot[simsensdata,
  {"Food_Production1.P_Land_Yield_Fact_2.Smooth1.Integrator1.y",
   "Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[6]", percentvar}]
```

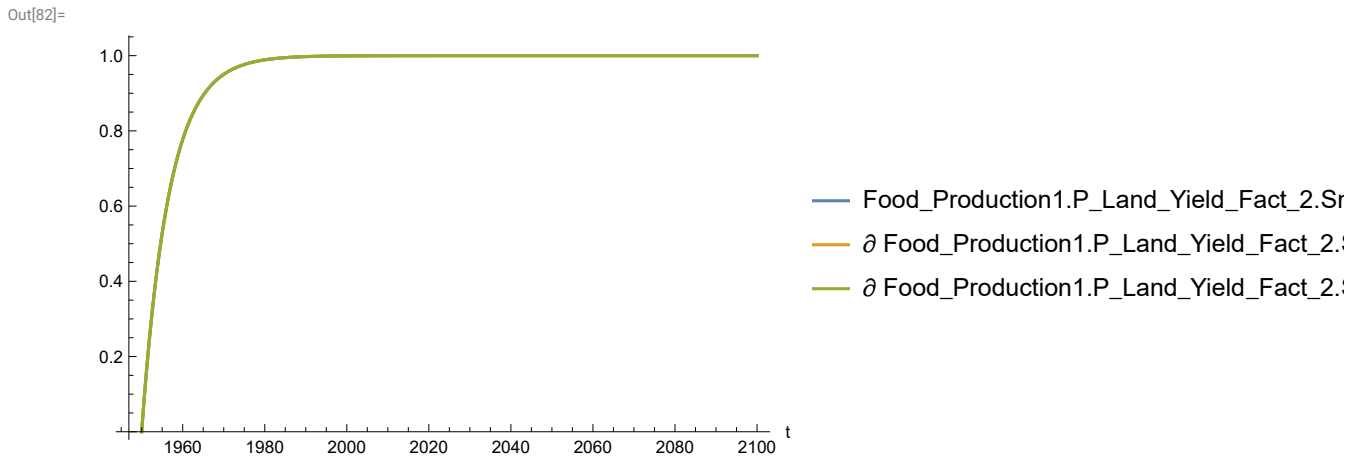



```
In[81]:= SystemModelPlot[simsensdata,
  {"Food_Production1.P_Land_Yield_Fact_2.Smooth1.Integrator1.y",
   "Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[7]", percentvar}]
```

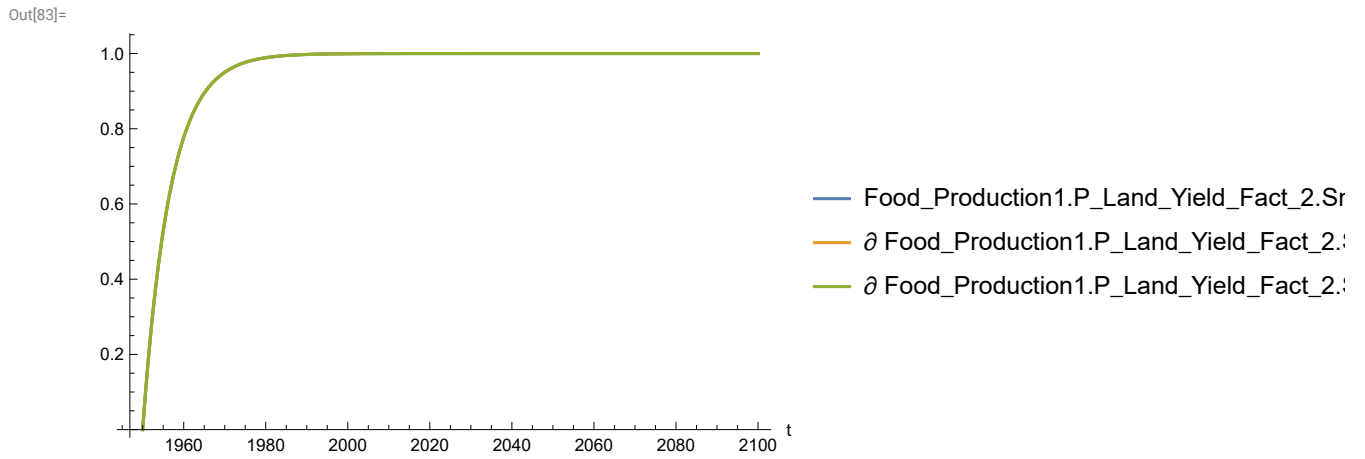


Plot the sensitivity of Food_Production1.P_Land_Yield_Fact_2.Smooth1.Integrator1.y to Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals.

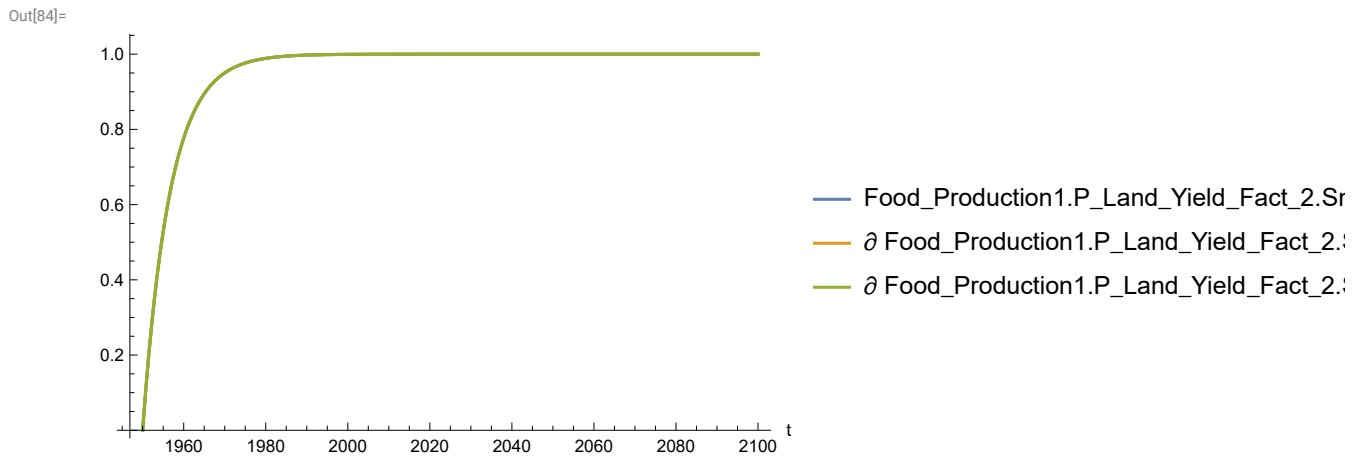
```
In[82]:= SystemModelPlot[simsensdata,
  {"Food_Production1.P_Land_Yield_Fact_2.Smooth1.Integrator1.y",
   "Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[1]", percentvar}]
```



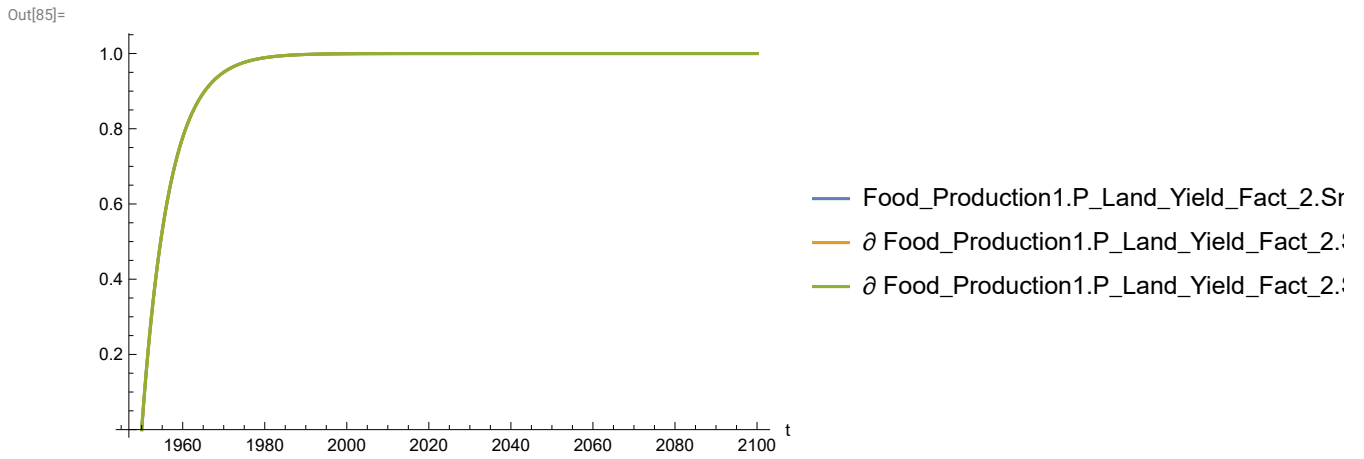
```
In[83]:= SystemModelPlot[simsensdata,
  {"Food_Production1.P_Land_Yield_Fact_2.Smooth1.Integrator1.y",
   "Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[2]", percentvar}]
```



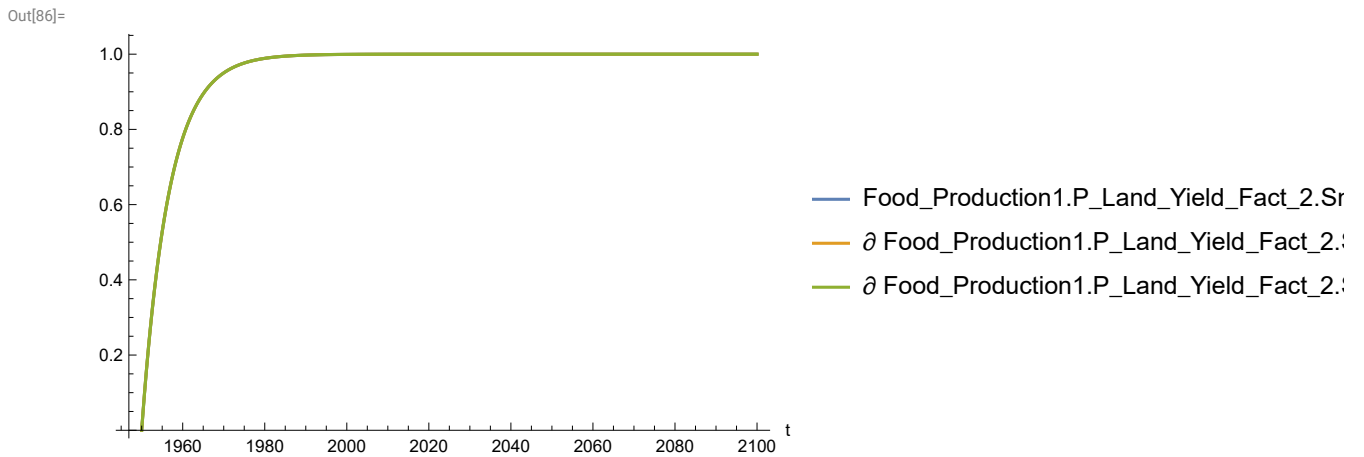
```
In[84]:= SystemModelPlot[simsensdata,
  {"Food_Production1.P_Land_Yield_Fact_2.Smooth1.Integrator1.y",
   "Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[3]", percentvar}]
```



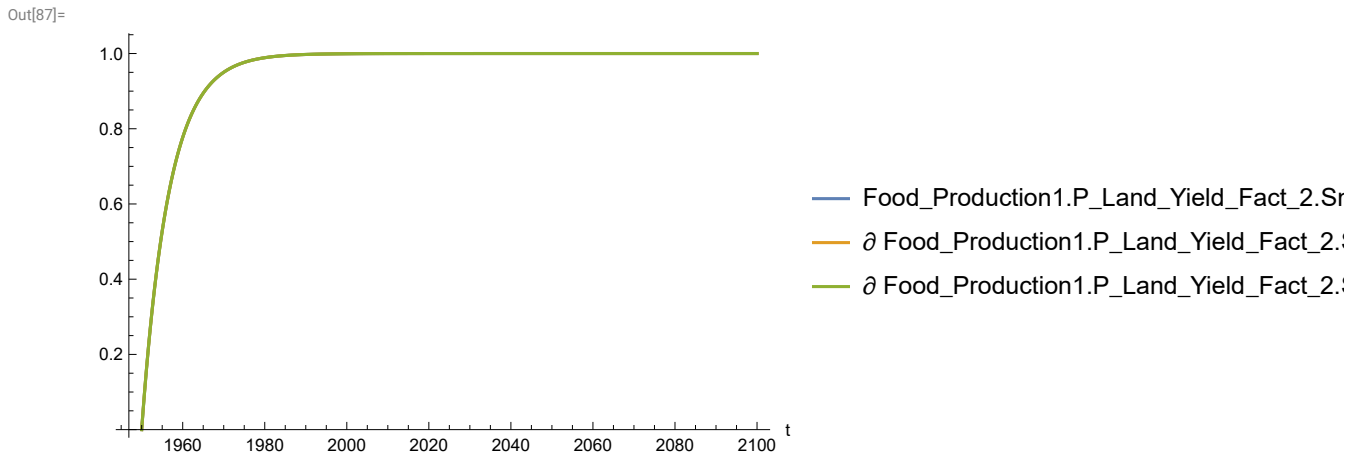
```
In[85]:= SystemModelPlot[simsensdata,
  {"Food_Production1.P_Land_Yield_Fact_2.Smooth1.Integrator1.y",
   "Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[4]", percentvar}]
```



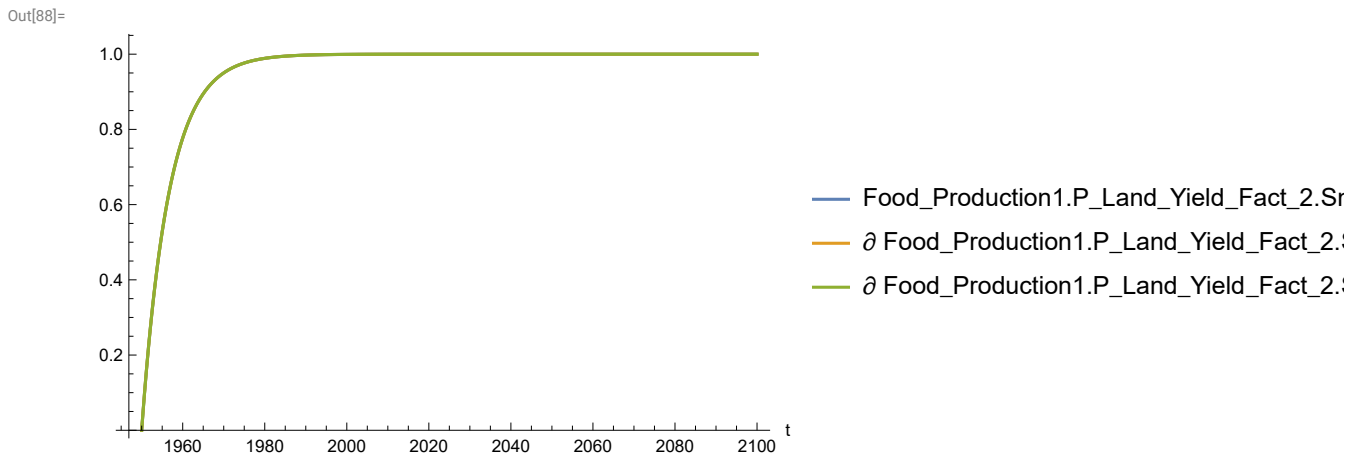
```
In[86]:= SystemModelPlot[simsensdata,
  {"Food_Production1.P_Land_Yield_Fact_2.Smooth1.Integrator1.y",
   "Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[5]", percentvar}]
```



```
In[87]:= SystemModelPlot[simsensdata,
  {"Food_Production1.P_Land_Yield_Fact_2.Smooth1.Integrator1.y",
   "Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[6]", percentvar}]
```

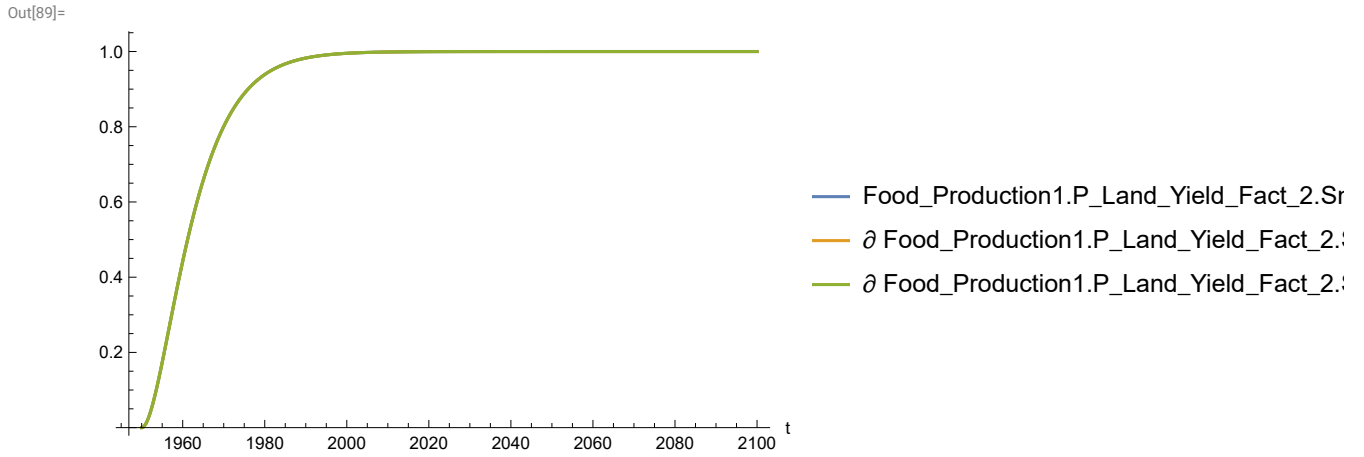


```
In[88]:= SystemModelPlot[simsensdata,
  {"Food_Production1.P_Land_Yield_Fact_2.Smooth1.Integrator1.y",
   "Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[7]", percentvar}]
```

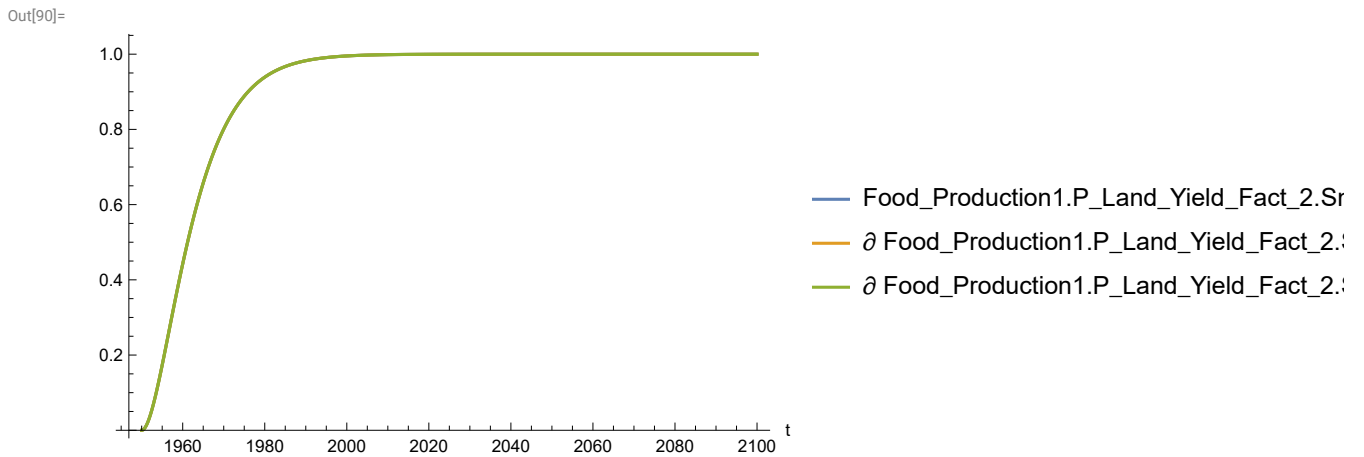


Plot the sensitivity of Food_Production1.P_Land_Yield_Fact_2.Smooth2.Integrator1.y to Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals.

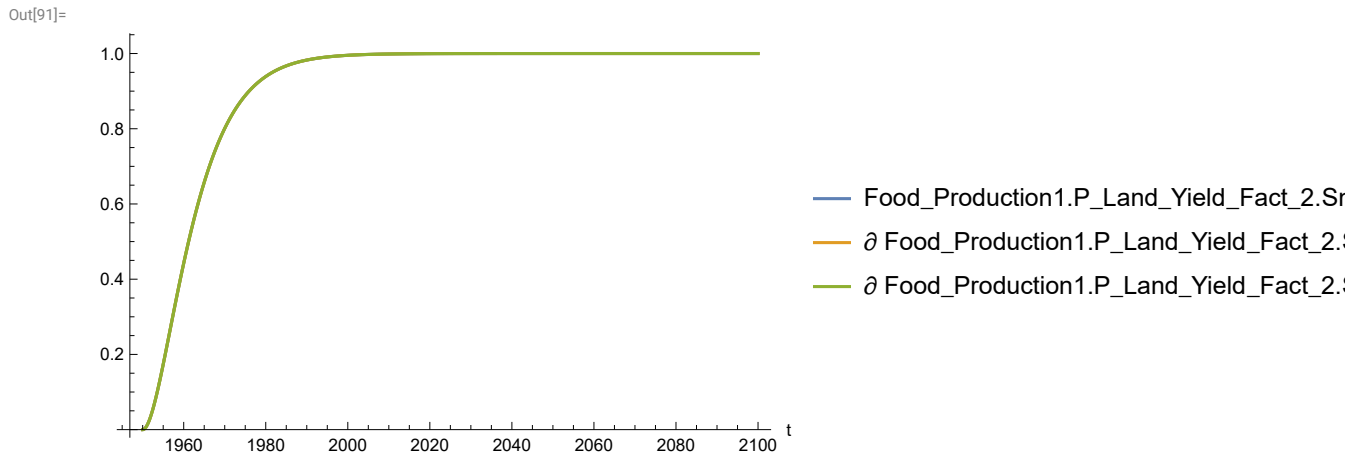
```
In[89]:= SystemModelPlot[simsensdata,
  {"Food_Production1.P_Land_Yield_Fact_2.Smooth2.Integrator1.y",
   "Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[1]", percentvar}]
```



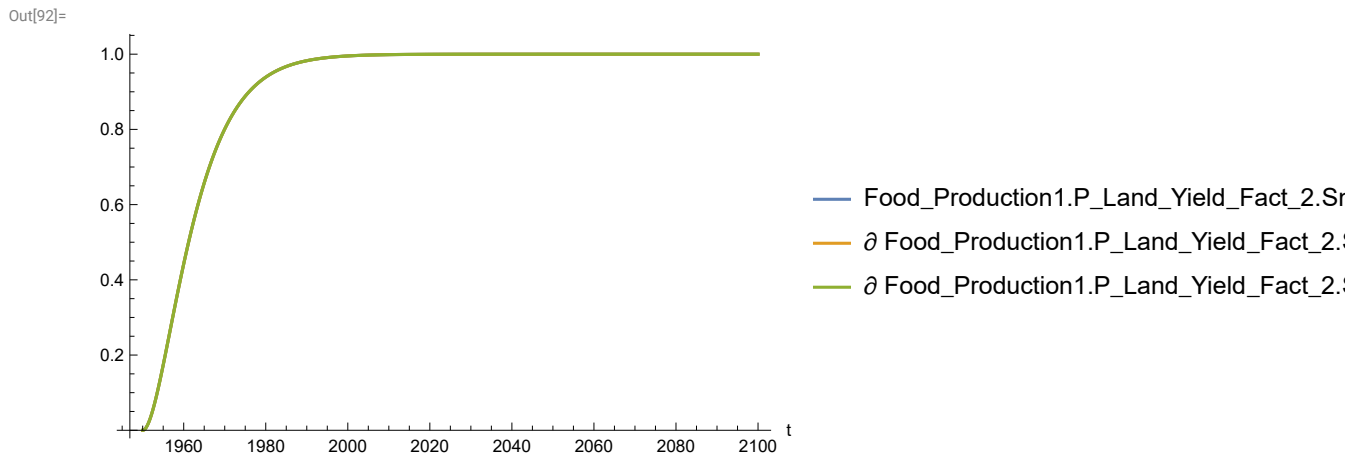
```
In[90]:= SystemModelPlot[simsensdata,
  {"Food_Production1.P_Land_Yield_Fact_2.Smooth2.Integrator1.y",
   "Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[2]", percentvar}]
```



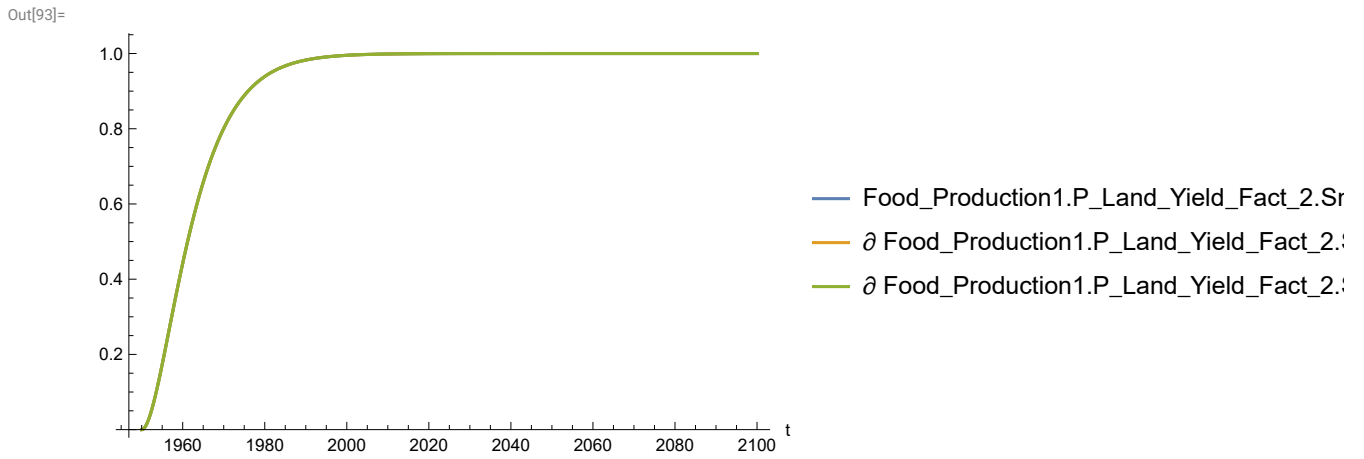
```
In[91]:= SystemModelPlot[simsensdata,
  {"Food_Production1.P_Land_Yield_Fact_2.Smooth2.Integrator1.y",
   "Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[3]", percentvar}]
```



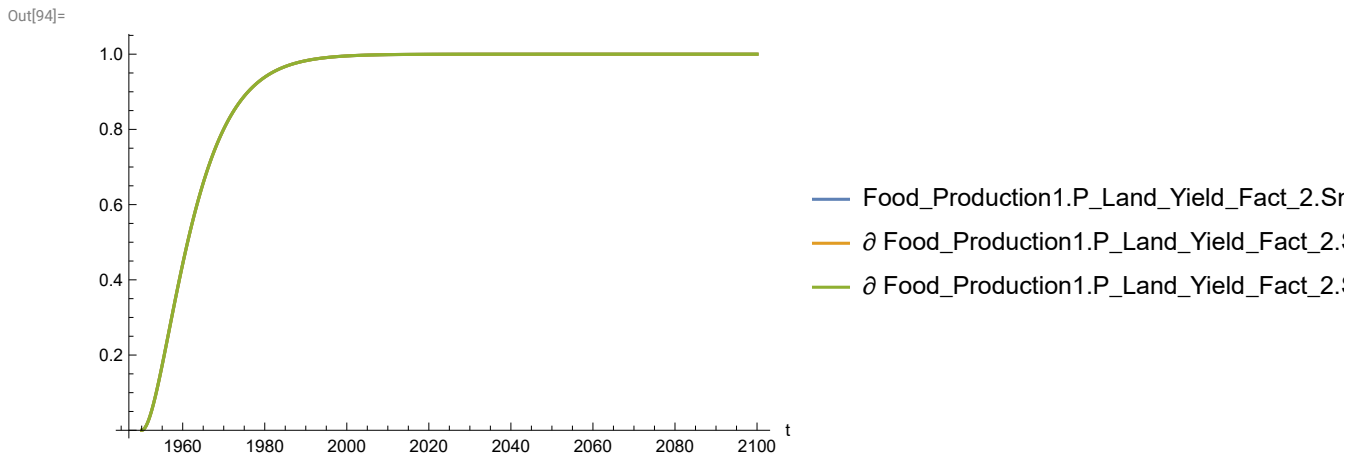
```
In[92]:= SystemModelPlot[simsensdata,
  {"Food_Production1.P_Land_Yield_Fact_2.Smooth2.Integrator1.y",
   "Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[4]", percentvar}]
```



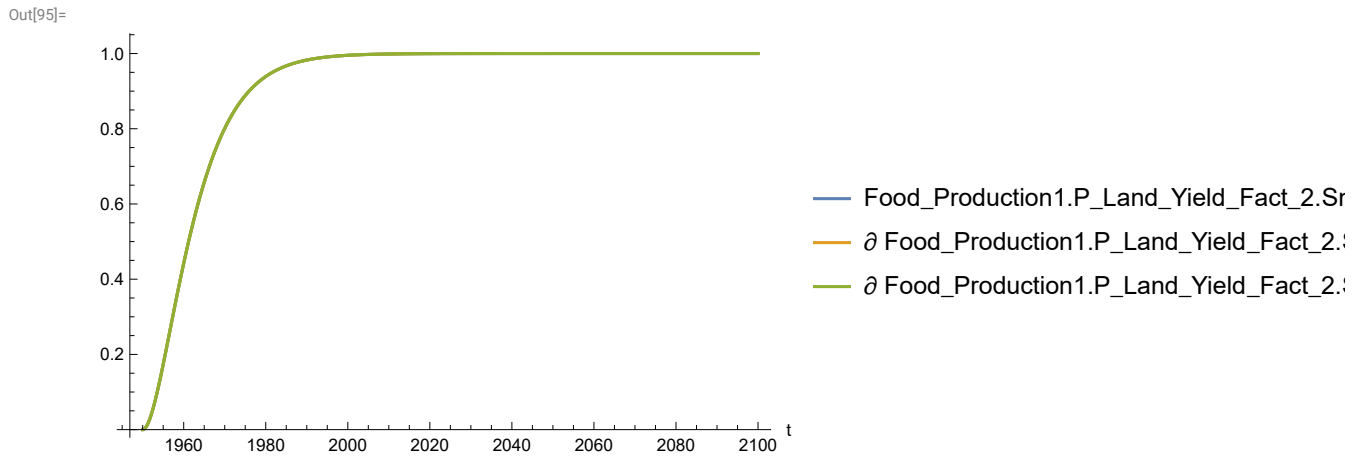
```
In[93]:= SystemModelPlot[simsensdata,
  {"Food_Production1.P_Land_Yield_Fact_2.Smooth2.Integrator1.y",
   "Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[5]", percentvar}]
```



```
In[94]:= SystemModelPlot[simsensdata,
  {"Food_Production1.P_Land_Yield_Fact_2.Smooth2.Integrator1.y",
   "Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[6]", percentvar}]
```

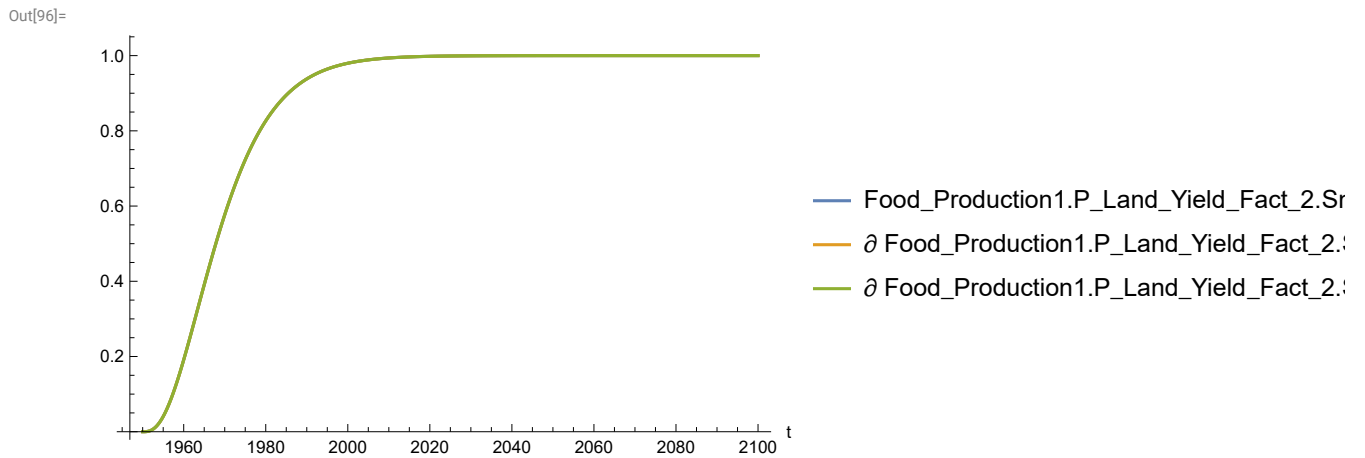


```
In[95]:= SystemModelPlot[simsensdata,
  {"Food_Production1.P_Land_Yield_Fact_2.Smooth2.Integrator1.y",
   "Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[7]", percentvar}]
```

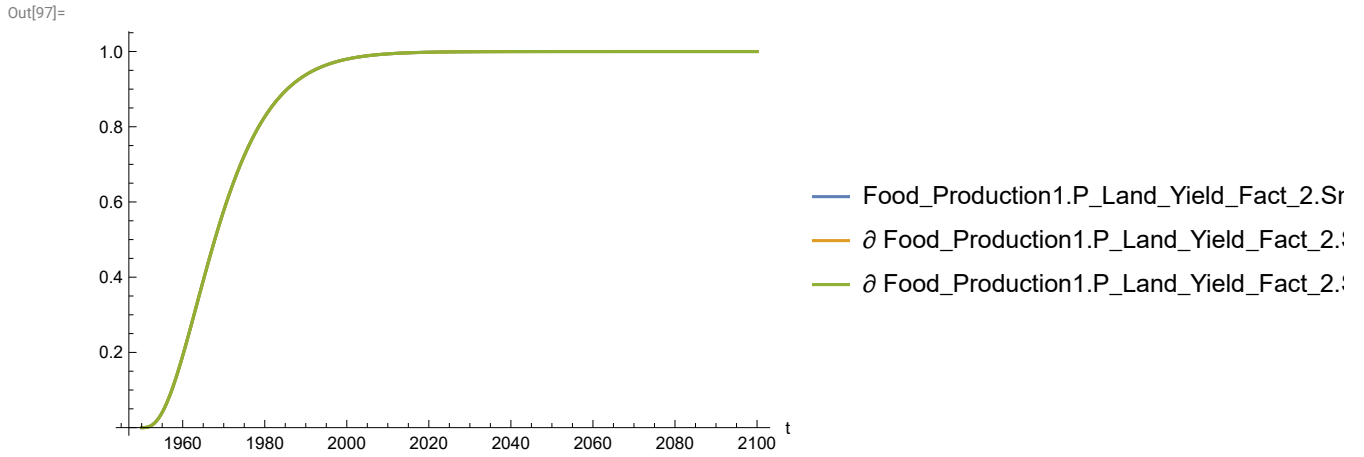


Plot sensitivity of **Food_Production1.P_Land_Yield_Fact_2.Smooth3.Integrator1.y** to Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals

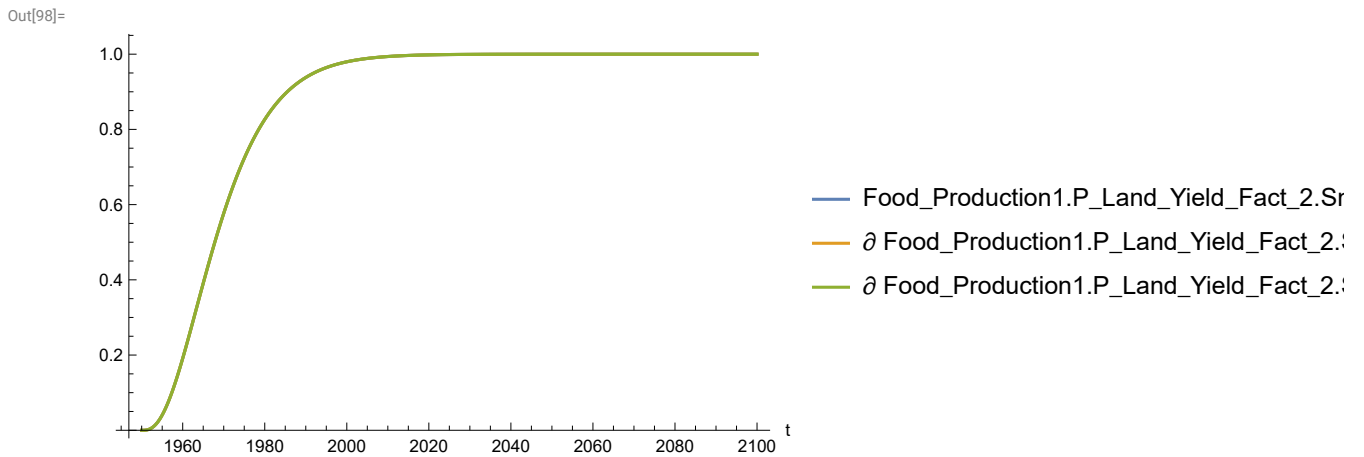
```
In[96]:= SystemModelPlot[simsensdata,
  {"Food_Production1.P_Land_Yield_Fact_2.Smooth3.Integrator1.y",
   "Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[1]", percentvar}]
```



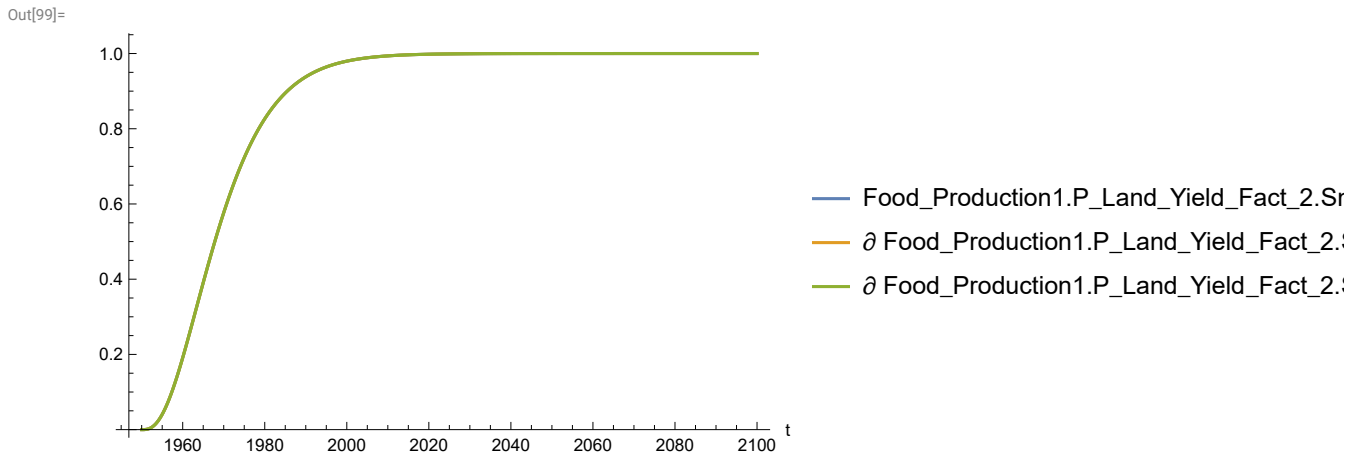

```
In[97]:= SystemModelPlot[simsensdata,
  {"Food_Production1.P_Land_Yield_Fact_2.Smooth3.Integrator1.y",
   "Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[2]", percentvar}]
```



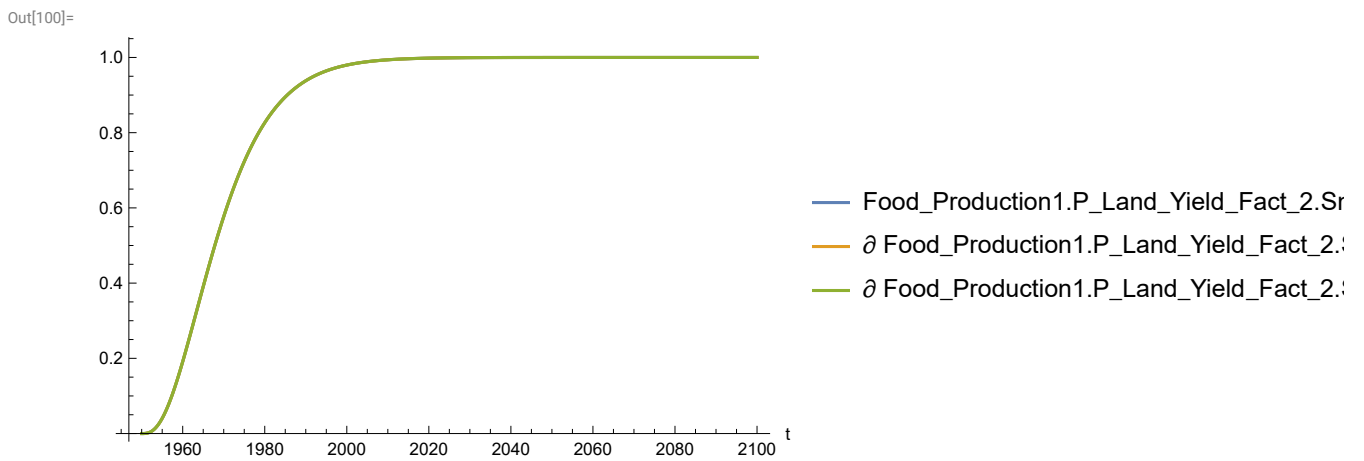
```
In[98]:= SystemModelPlot[simsensdata,
  {"Food_Production1.P_Land_Yield_Fact_2.Smooth3.Integrator1.y",
   "Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[3]", percentvar}]
```



```
In[99]:= SystemModelPlot[simsensdata,
  {"Food_Production1.P_Land_Yield_Fact_2.Smooth3.Integrator1.y",
   "Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[4]", percentvar}]
```



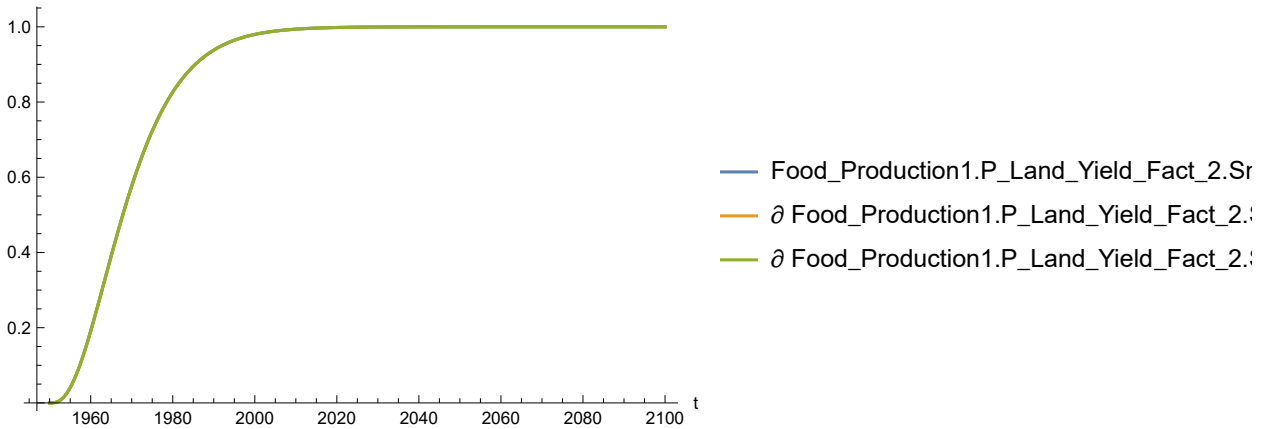
```
In[100]:= SystemModelPlot[simsensdata,
  {"Food_Production1.P_Land_Yield_Fact_2.Smooth3.Integrator1.y",
   "Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[5]", percentvar}]
```



In[101]:=

```
SystemModelPlot[simsensdata,
  {"Food_Production1.P_Land_Yield_Fact_2.Smooth3.Integrator1.y",
   "Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[6]", percentvar}]
```

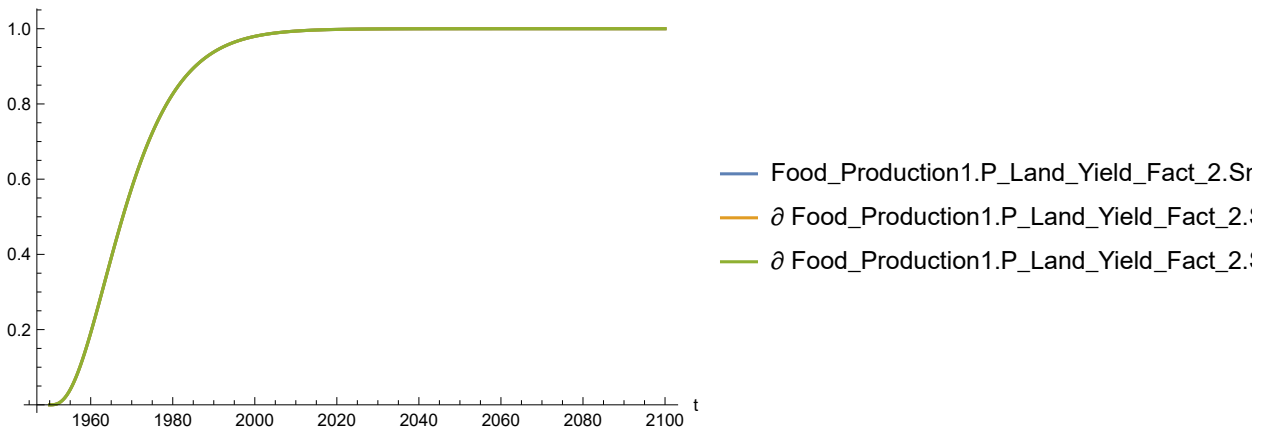
Out[101]=



In[102]:=

```
SystemModelPlot[simsensdata,
  {"Food_Production1.P_Land_Yield_Fact_2.Smooth3.Integrator1.y",
   "Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[7]", percentvar}]
```

Out[102]=

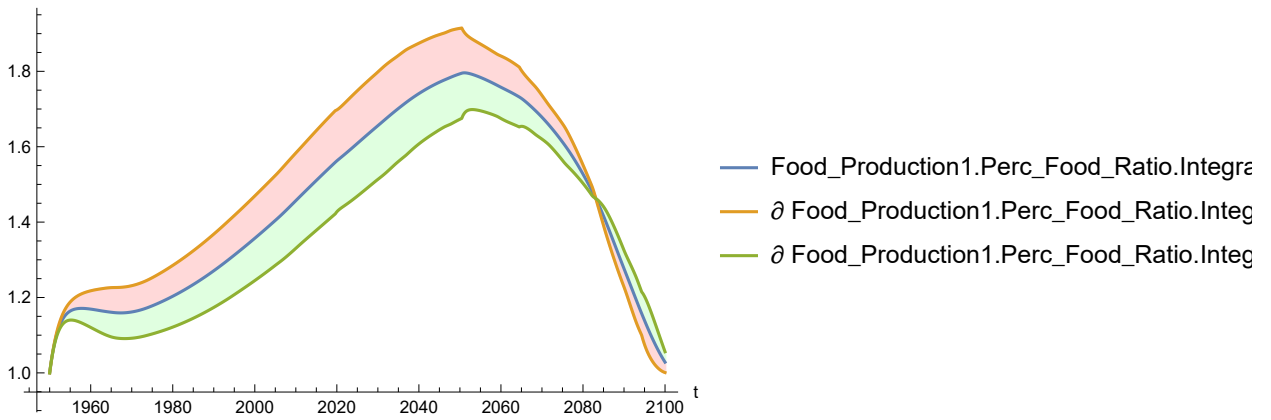


Plot sensitivity of **Food_Production1.Perc_Food_Ratio.Integrator1.y** to **Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals**

In[103]:=

```
SystemModelPlot[simsensdata, {"Food_Production1.Perc_Food_Ratio.Integrator1.y",
"Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[1]", percentvar}]
```

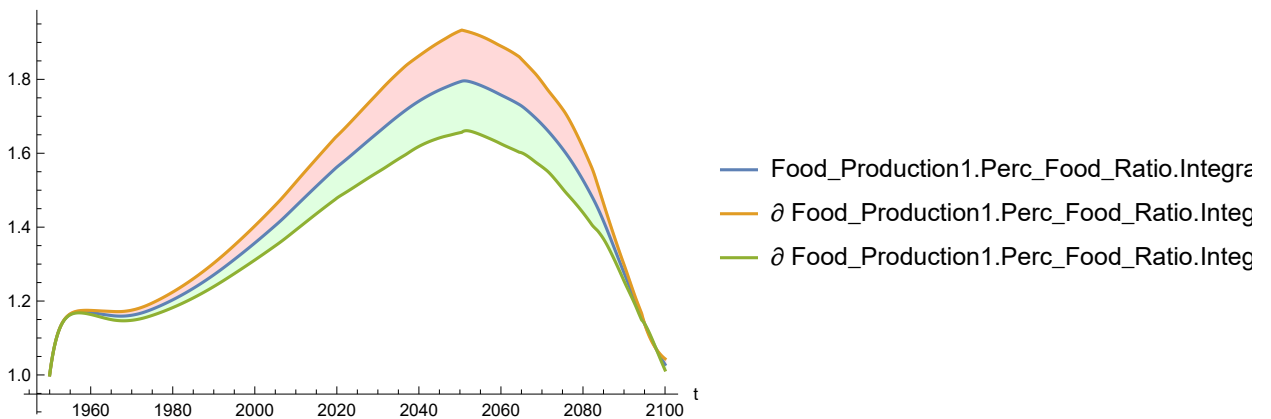
Out[103]:=



In[104]:=

```
SystemModelPlot[simsensdata, {"Food_Production1.Perc_Food_Ratio.Integrator1.y",
"Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[2]", percentvar}]
```

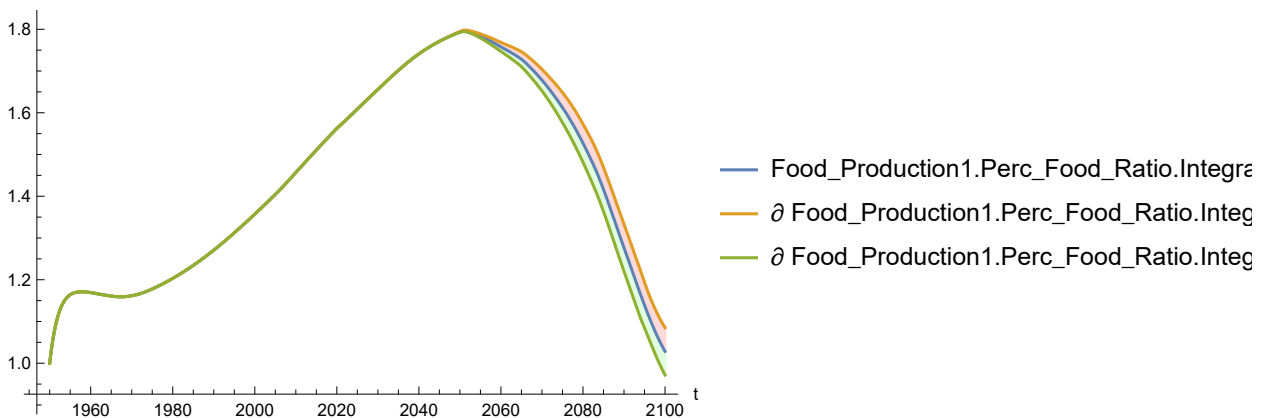
Out[104]:=



In[105]:=

```
SystemModelPlot[simsensdata, {"Food_Production1.Perc_Food_Ratio.Integrator1.y",
"Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[3]", percentvar}]
```

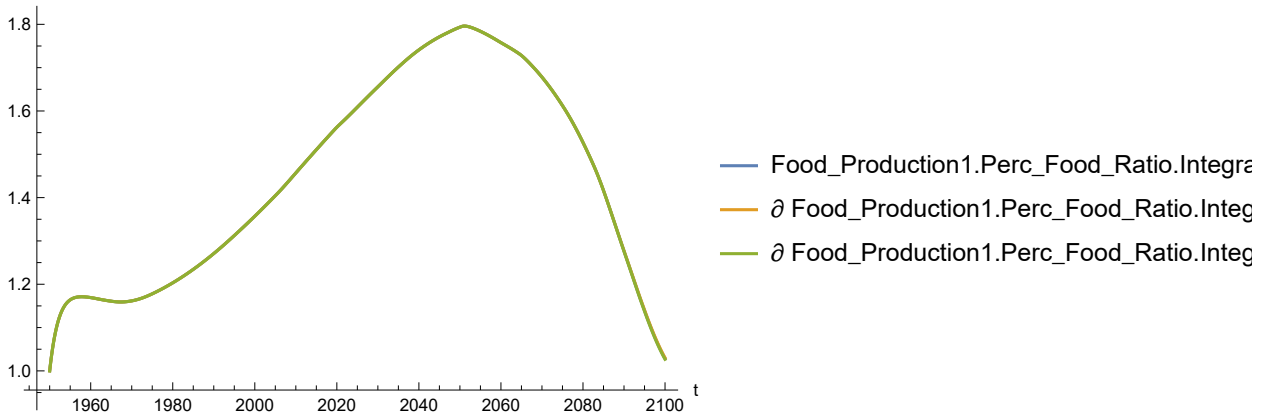
Out[105]:=



In[106]:=

```
SystemModelPlot[simsensdata, {"Food_Production1.Perc_Food_Ratio.Integrator1.y",
"Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[4]", percentvar}]
```

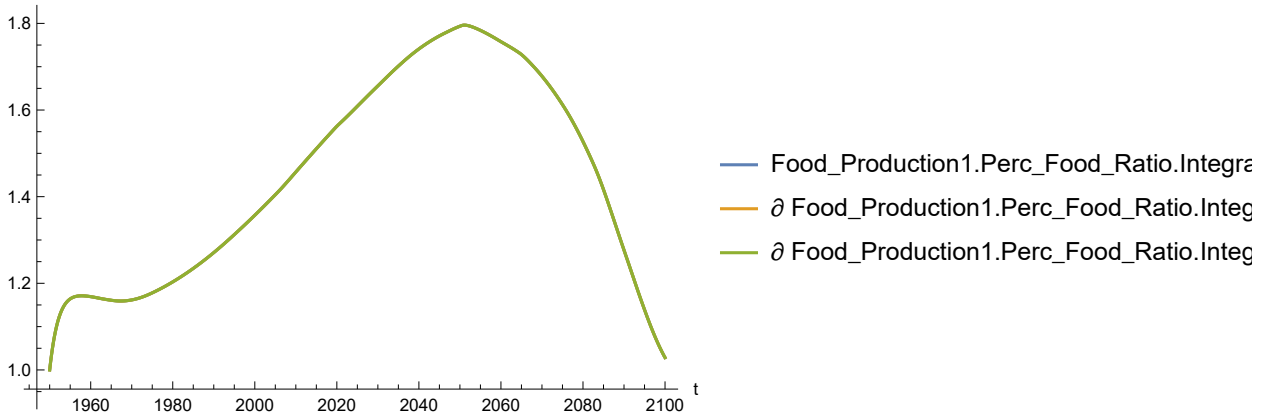
Out[106]:=



In[107]:=

```
SystemModelPlot[simsensdata, {"Food_Production1.Perc_Food_Ratio.Integrator1.y",
"Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[5]", percentvar}]
```

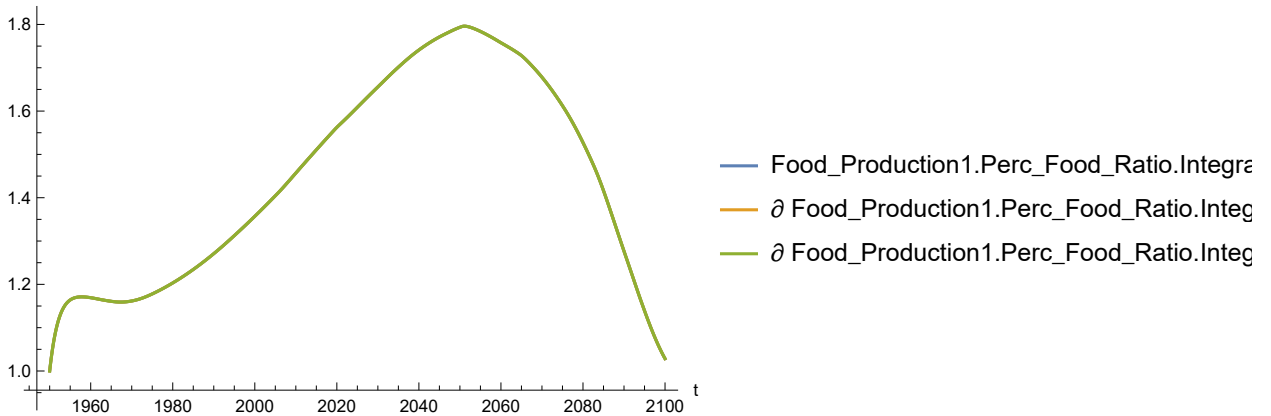
Out[107]:=



In[108]:=

```
SystemModelPlot[simsensdata, {"Food_Production1.Perc_Food_Ratio.Integrator1.y",
"Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[6]", percentvar}]
```

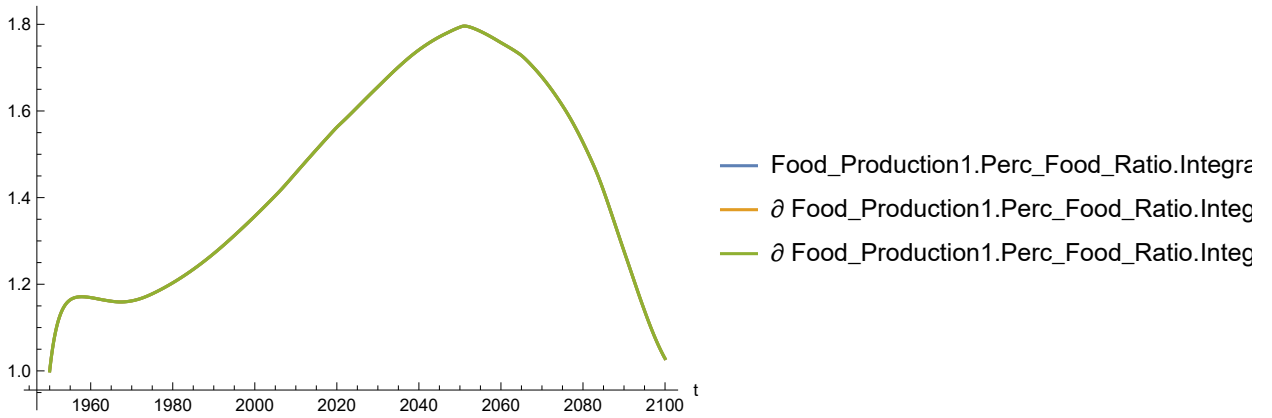
Out[108]:=



In[109]:=

```
SystemModelPlot[simsensdata, {"Food_Production1.Perc_Food_Ratio.Integrator1.y",
"Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[7]", percentvar}]
```

Out[109]=

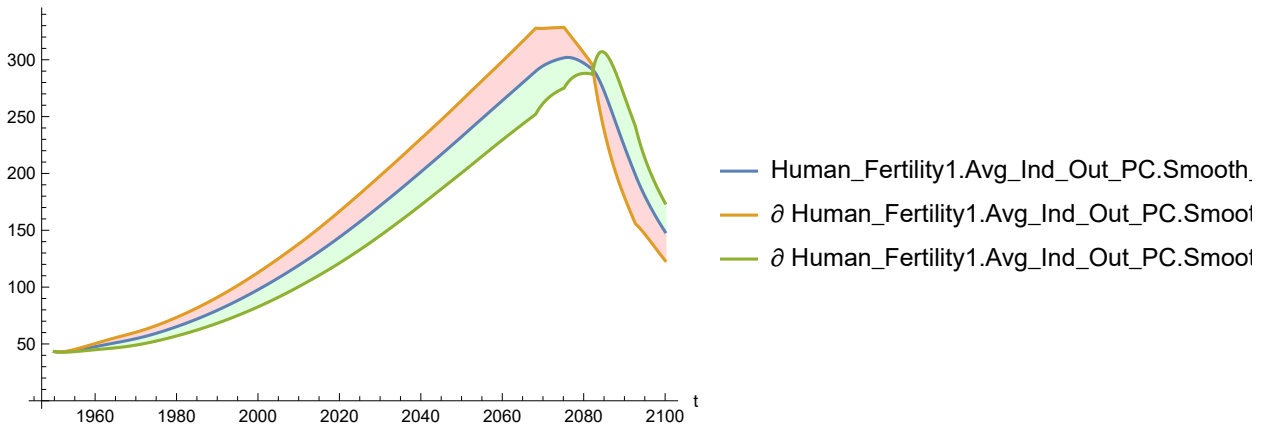


Plot the sensitivity of Human_Fertility1.Avg_Ind_Out_PC.Smooth_of_Input.Integrator1.y to Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals.

In[110]:=

```
SystemModelPlot[simsensdata,
{"Human_Fertility1.Avg_Ind_Out_PC.Smooth_of_Input.Integrator1.y",
"Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[1]", percentvar}]
```

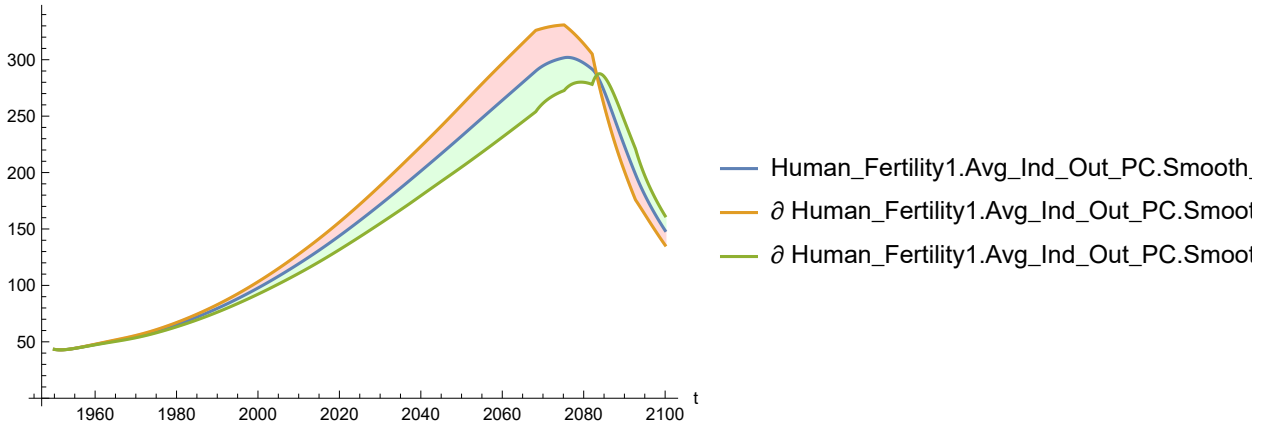
Out[110]=



In[111]:=

```
SystemModelPlot[simsensdata,
  {"Human_Fertility1.Avg_Ind_Out_PC.Smooth_of_Input.Integrator1.y",
   "Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[2]", percentvar}]
```

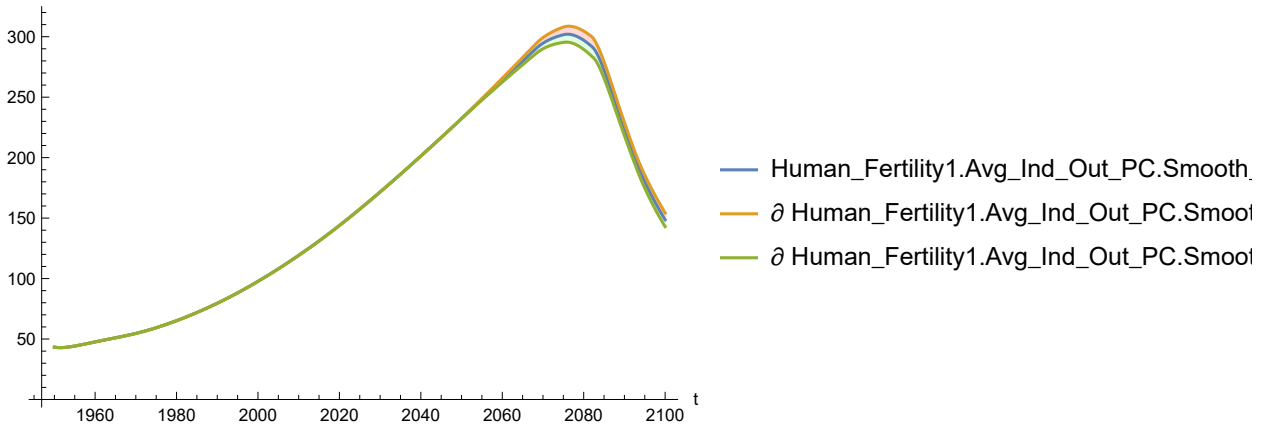
Out[111]=



In[112]:=

```
SystemModelPlot[simsensdata,
  {"Human_Fertility1.Avg_Ind_Out_PC.Smooth_of_Input.Integrator1.y",
   "Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[3]", percentvar}]
```

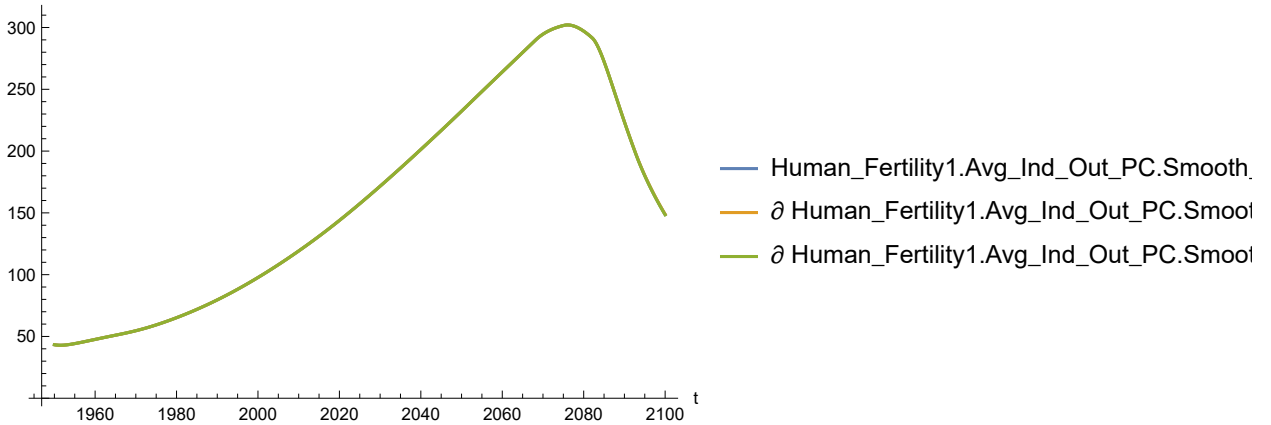
Out[112]=



In[113]:=

```
SystemModelPlot[simsensdata,
  {"Human_Fertility1.Avg_Ind_Out_PC.Smooth_of_Input.Integrator1.y",
   "Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[4]", percentvar}]
```

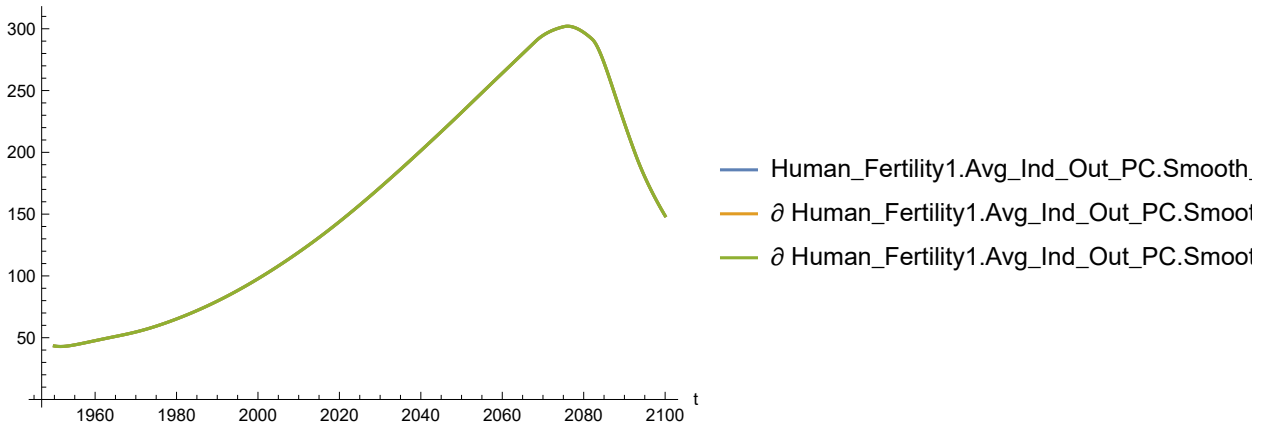
Out[113]=



In[114]:=

```
SystemModelPlot[simsensdata,
  {"Human_Fertility1.Avg_Ind_Out_PC.Smooth_of_Input.Integrator1.y",
   "Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[5]", percentvar}]
```

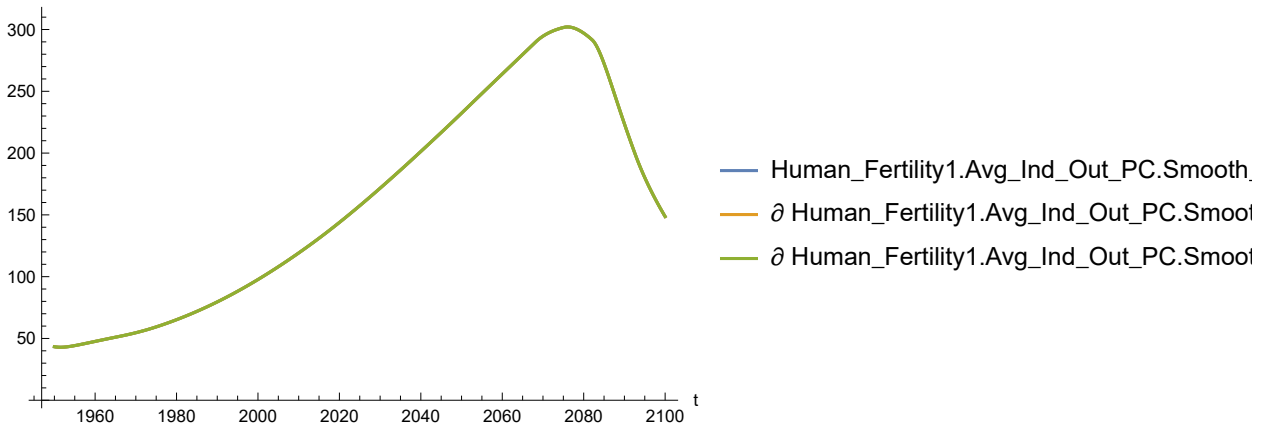
Out[114]=



In[115]:=

```
SystemModelPlot[simsensdata,
  {"Human_Fertility1.Avg_Ind_Out_PC.Smooth_of_Input.Integrator1.y",
   "Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[6]", percentvar}]
```

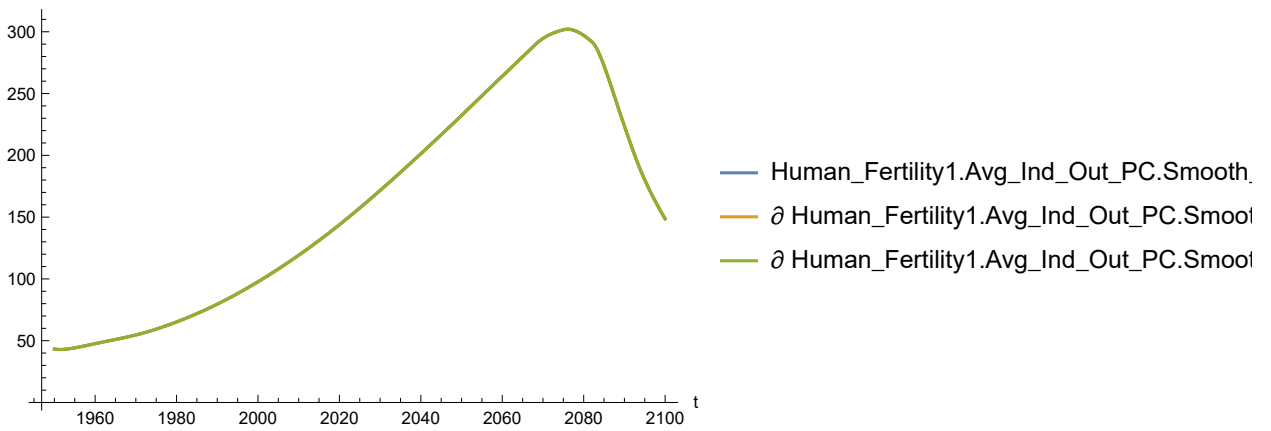
Out[115]=



In[116]:=

```
SystemModelPlot[simsensdata,
  {"Human_Fertility1.Avg_Ind_Out_PC.Smooth_of_Input.Integrator1.y",
   "Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[7]", percentvar}]
```

Out[116]=

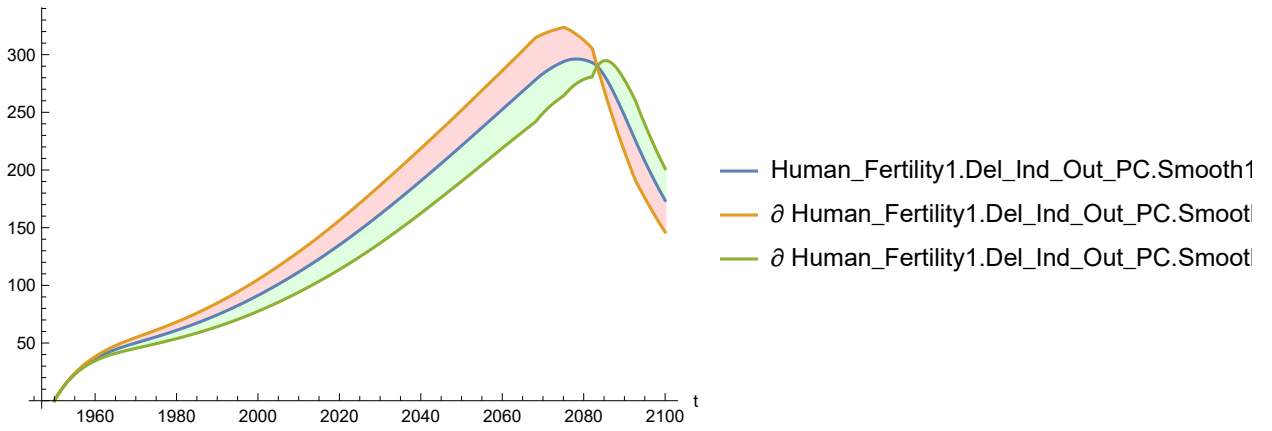


Plot the sensitivity of Human_Fertility1.Del_Ind_Out_PC.Smooth1.Integrator1.y to Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals.

In[117]:=

```
SystemModelPlot[simsensdata, {"Human_Fertility1.Del_Ind_Out_PC.Smooth1.Integrator1.y",
    "Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[1]", percentvar}]
```

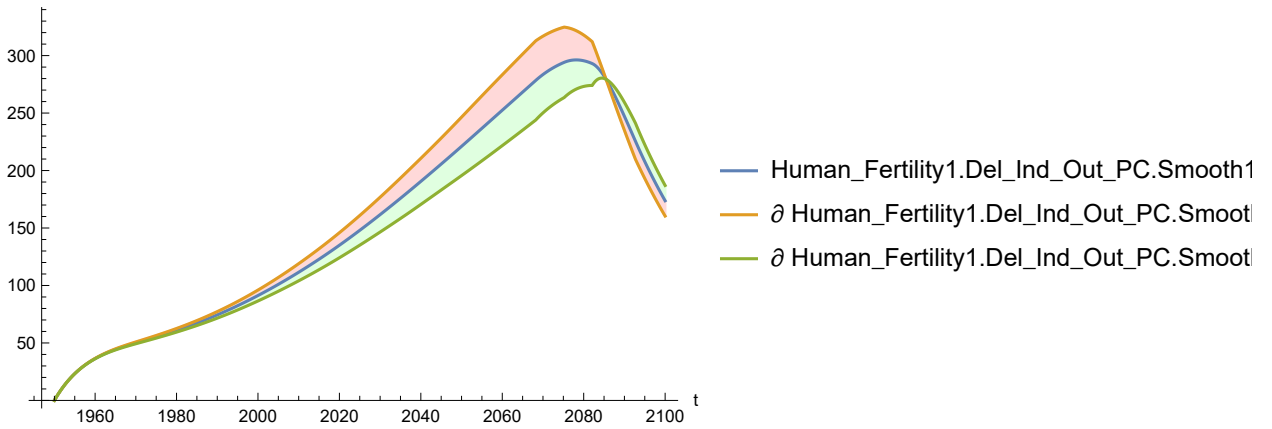
Out[117]=



In[118]:=

```
SystemModelPlot[simsensdata, {"Human_Fertility1.Del_Ind_Out_PC.Smooth1.Integrator1.y",
    "Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[2]", percentvar}]
```

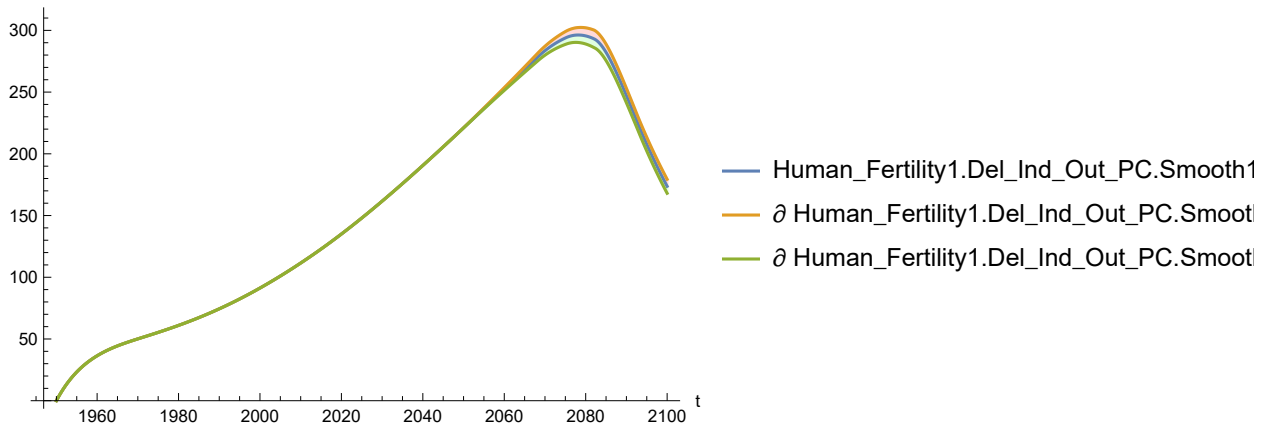
Out[118]=



In[119]:=

```
SystemModelPlot[simsensdata, {"Human_Fertility1.Del_Ind_Out_PC.Smooth1.Integrator1.y",
"Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[3]", percentvar}]
```

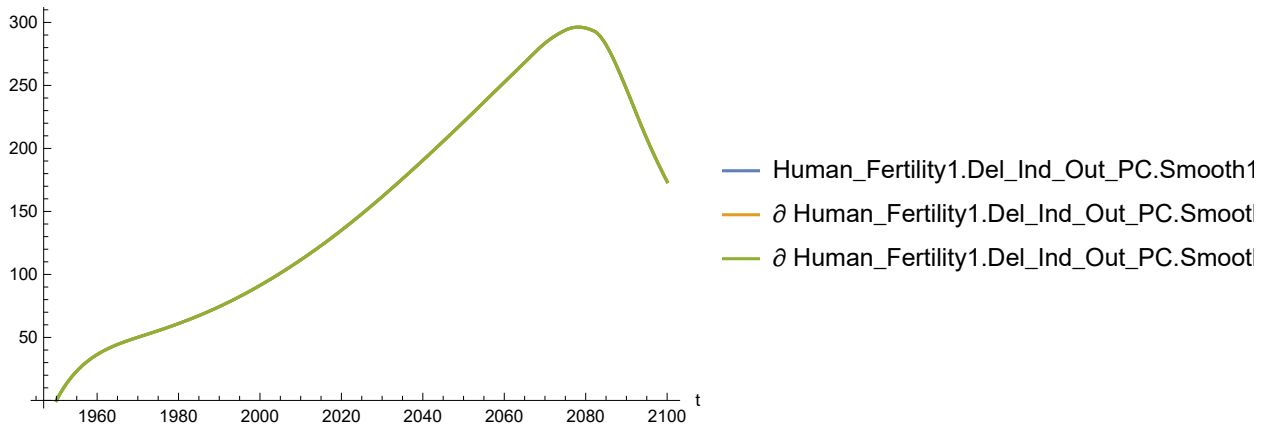
Out[119]=



In[120]:=

```
SystemModelPlot[simsensdata, {"Human_Fertility1.Del_Ind_Out_PC.Smooth1.Integrator1.y",
"Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[4]", percentvar}]
```

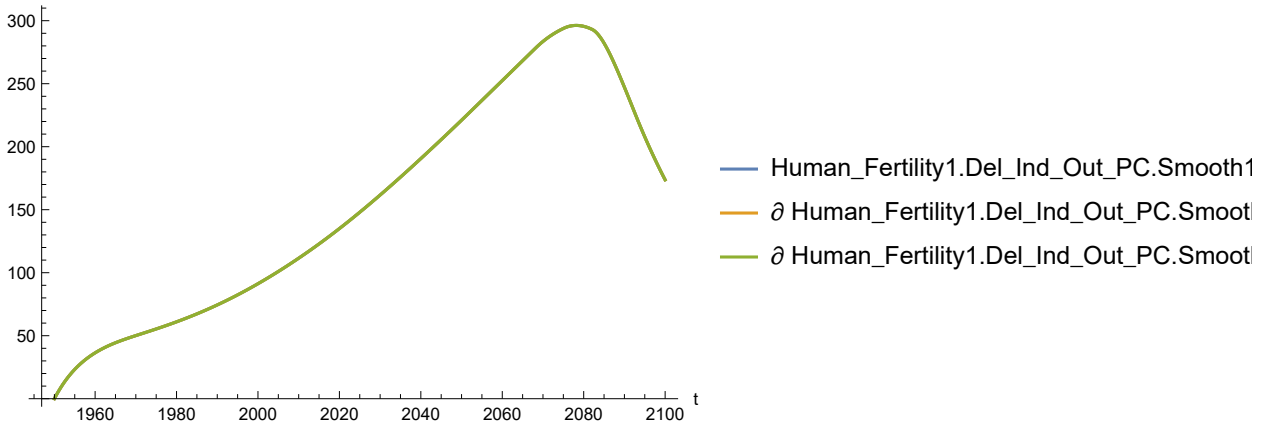
Out[120]=



In[121]:=

```
SystemModelPlot[simsensdata, {"Human_Fertility1.Del_Ind_Out_PC.Smooth1.Integrator1.y",
"Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[5]", percentvar}]
```

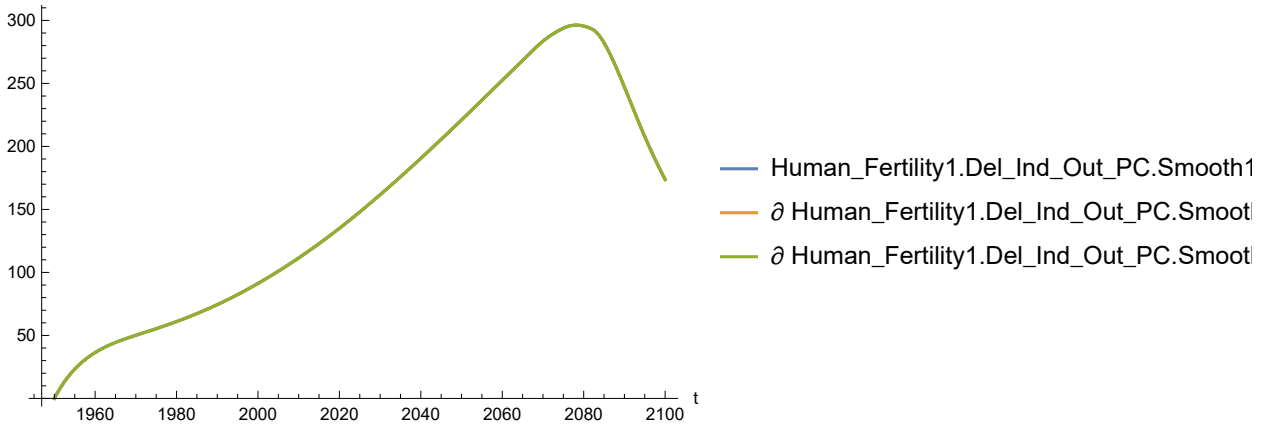
Out[121]=



In[122]:=

```
SystemModelPlot[simsensdata, {"Human_Fertility1.Del_Ind_Out_PC.Smooth1.Integrator1.y",
"Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[6]", percentvar}]
```

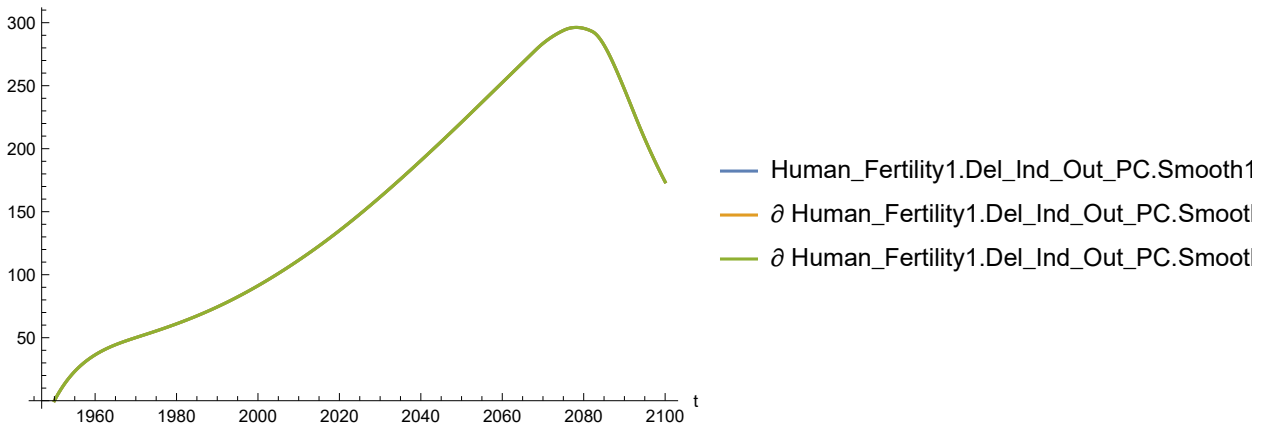
Out[122]=



In[123]:=

```
SystemModelPlot[simsensdata, {"Human_Fertility1.Del_Ind_Out_PC.Smooth1.Integrator1.y",
"Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[7]", percentvar}]
```

Out[123]=

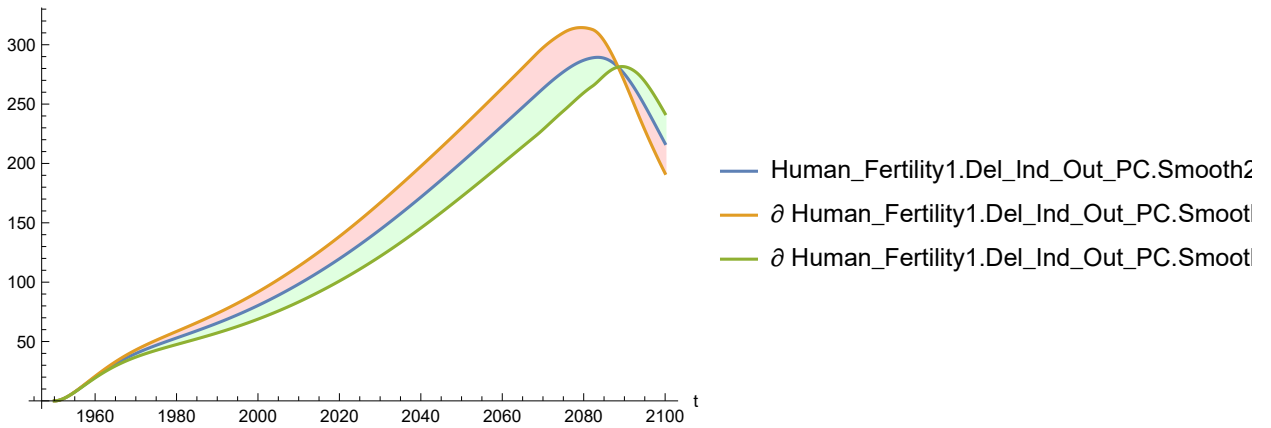


Plot the sensitivity of Human_Fertility1.Del_Ind_Out_PC.Smooth2.Integrator1.y to Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals.

In[124]:=

```
SystemModelPlot[simsensdata, {"Human_Fertility1.Del_Ind_Out_PC.Smooth2.Integrator1.y",
"Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[1]", percentvar}]
```

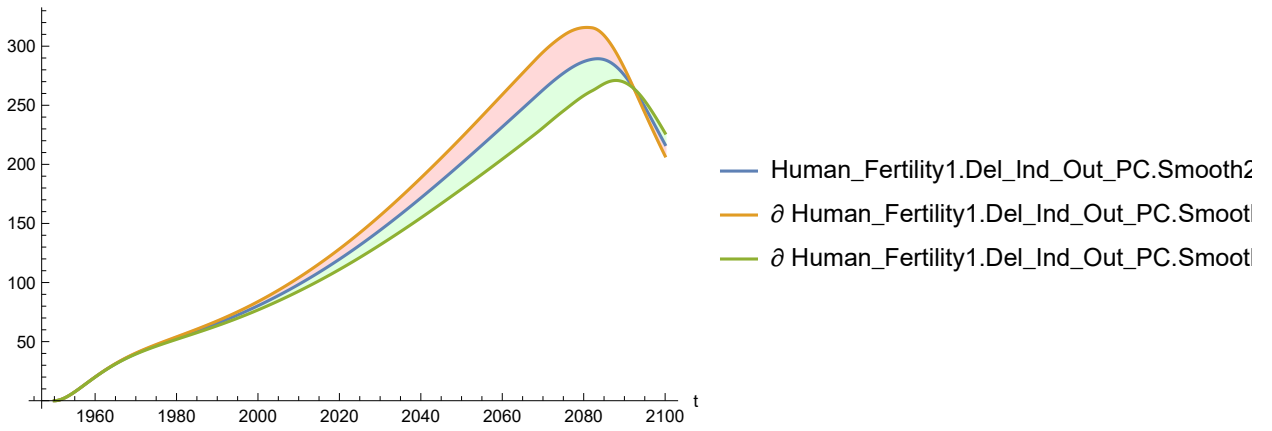
Out[124]=



In[125]:=

```
SystemModelPlot[simsensdata, {"Human_Fertility1.Del_Ind_Out_PC.Smooth2.Integrator1.y",
    "Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[2]", percentvar}]
```

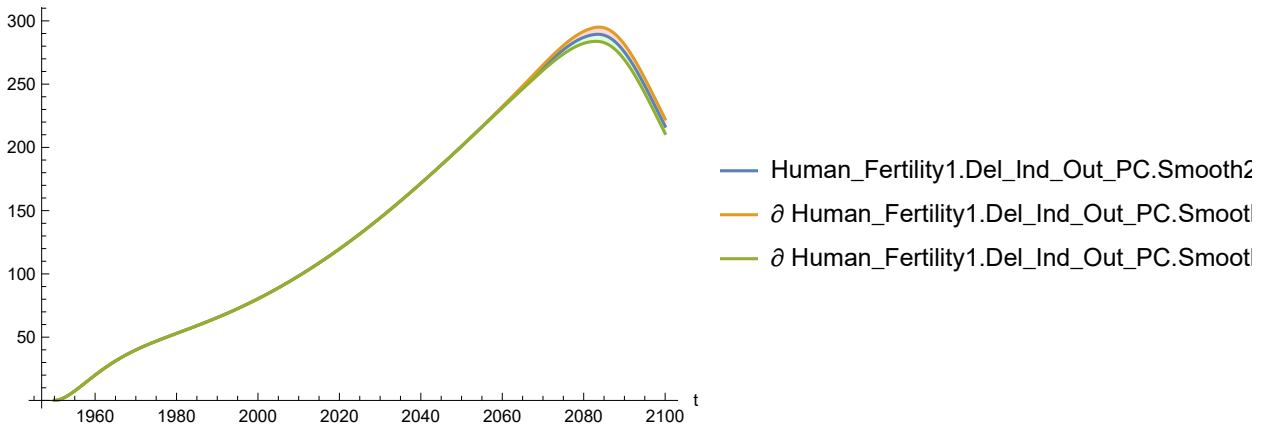
Out[125]=



In[126]:=

```
SystemModelPlot[simsensdata, {"Human_Fertility1.Del_Ind_Out_PC.Smooth2.Integrator1.y",
    "Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[3]", percentvar}]
```

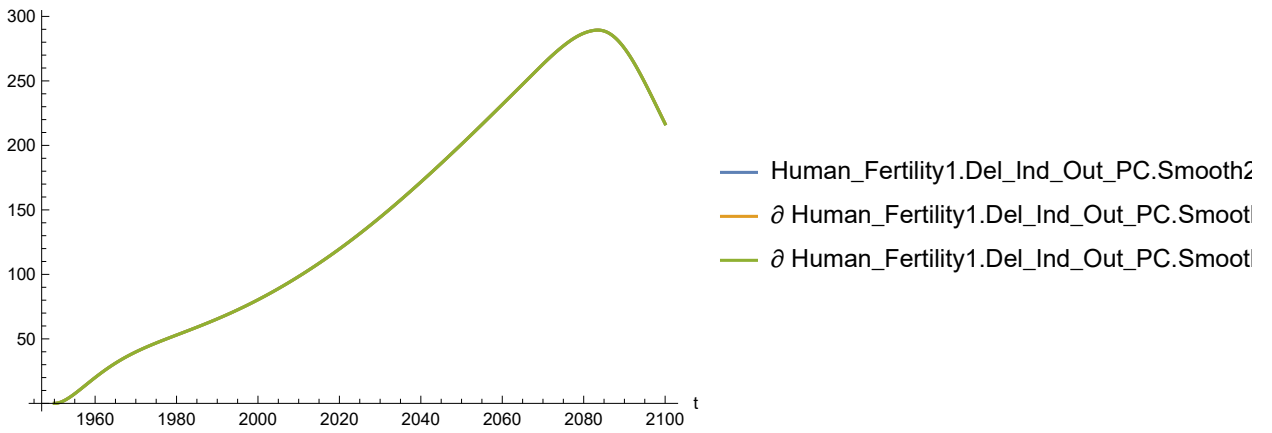
Out[126]=



In[127]:=

```
SystemModelPlot[simsensdata, {"Human_Fertility1.Del_Ind_Out_PC.Smooth2.Integrator1.y",
    "Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[4]", percentvar}]
```

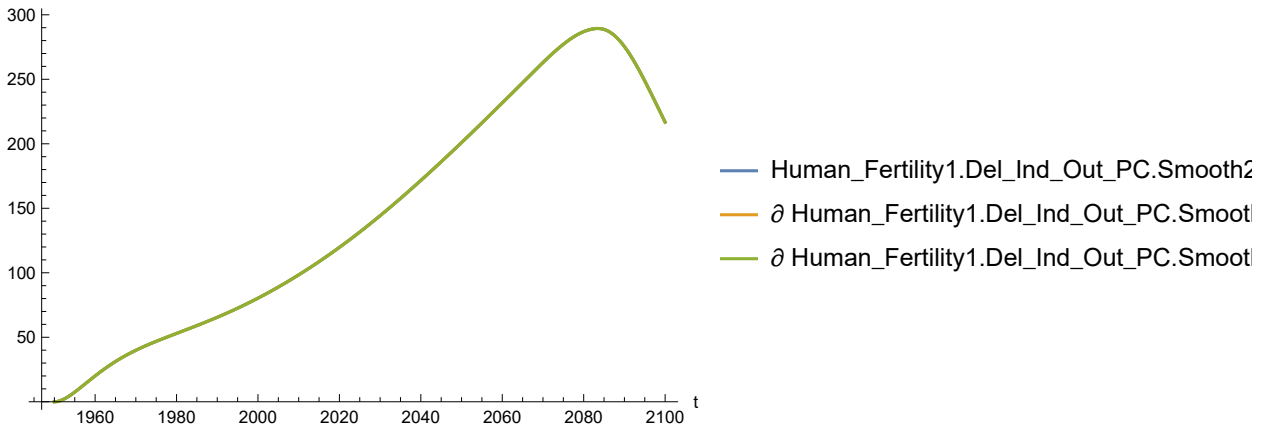
Out[127]=



In[128]:=

```
SystemModelPlot[simsensdata, {"Human_Fertility1.Del_Ind_Out_PC.Smooth2.Integrator1.y",
    "Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[5]", percentvar}]
```

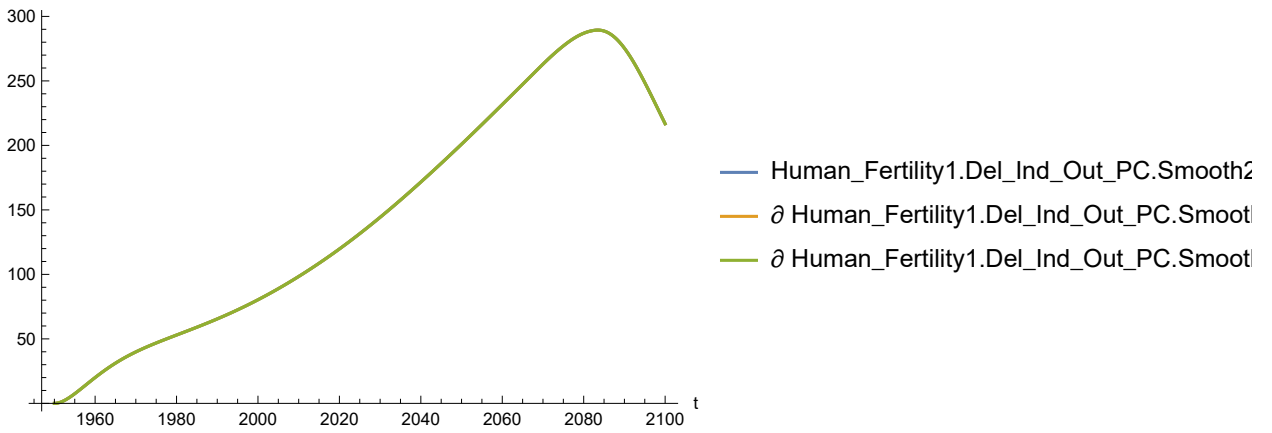
Out[128]=



In[129]:=

```
SystemModelPlot[simsensdata, {"Human_Fertility1.Del_Ind_Out_PC.Smooth2.Integrator1.y",
    "Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[6]", percentvar}]
```

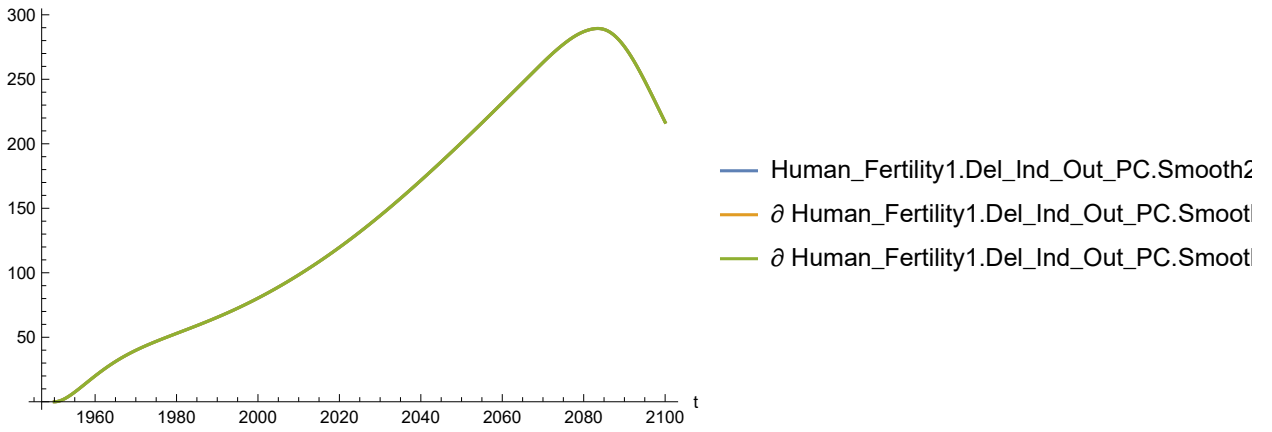
Out[129]=



In[130]:=

```
SystemModelPlot[simsensdata, {"Human_Fertility1.Del_Ind_Out_PC.Smooth2.Integrator1.y",
    "Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[7]", percentvar}]
```

Out[130]=

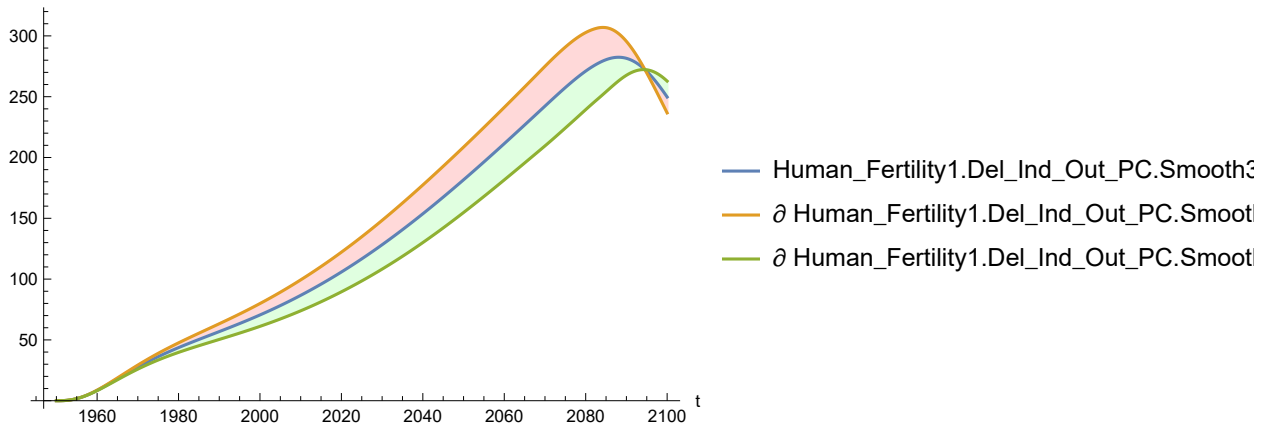


Plot the sensitivity of Human_Fertility1.Del_Ind_Out_PC.Smooth3.Integrator1.y to Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals.

In[131]:=

```
SystemModelPlot[simsensdata, {"Human_Fertility1.De1_Ind_Out_PC.Smooth3.Integrator1.y",
    "Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[1]", percentvar}]
```

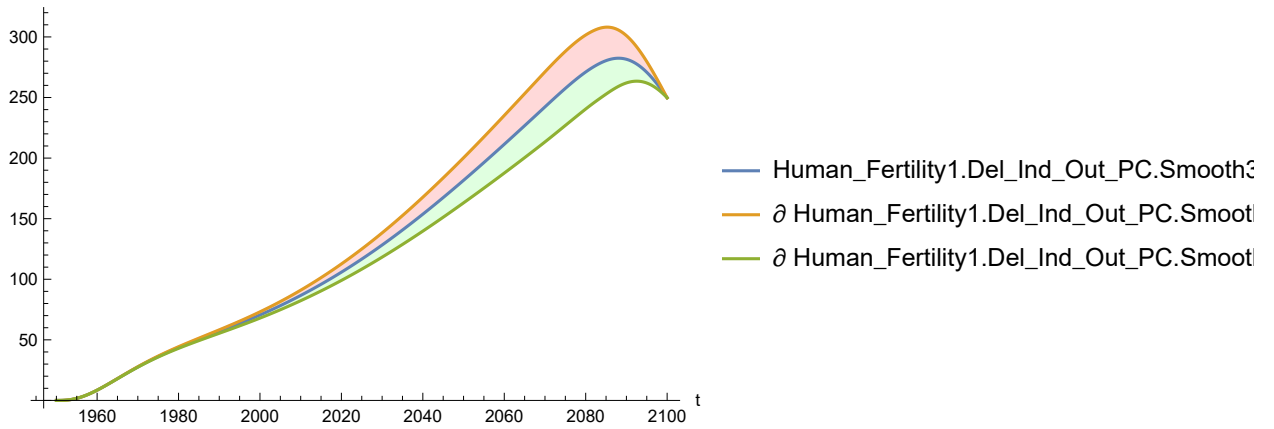
Out[131]=



In[132]:=

```
SystemModelPlot[simsensdata, {"Human_Fertility1.De1_Ind_Out_PC.Smooth3.Integrator1.y",
    "Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[2]", percentvar}]
```

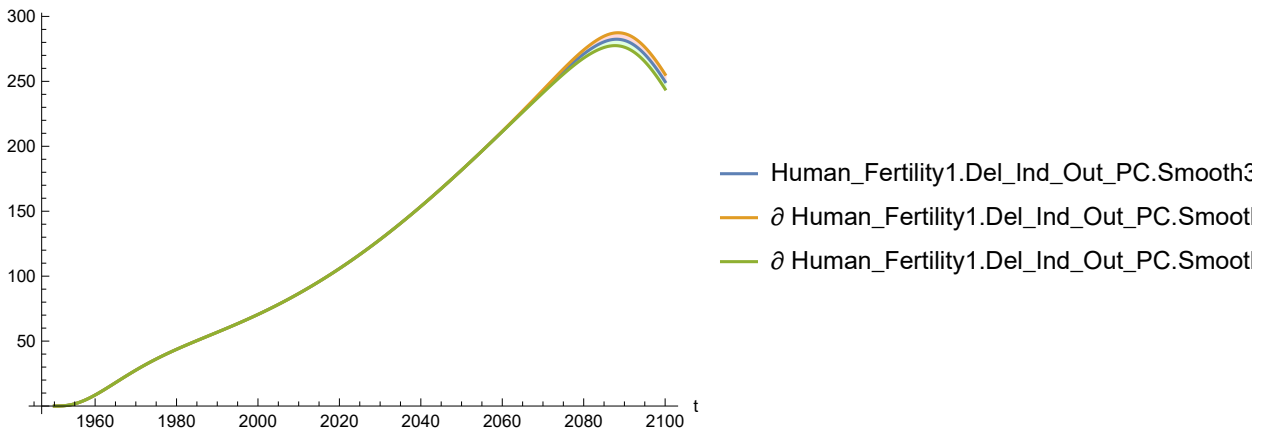
Out[132]=



In[133]:=

```
SystemModelPlot[simsensdata, {"Human_Fertility1.Del_Ind_Out_PC.Smooth3.Integrator1.y",
"Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[3]", percentvar}]
```

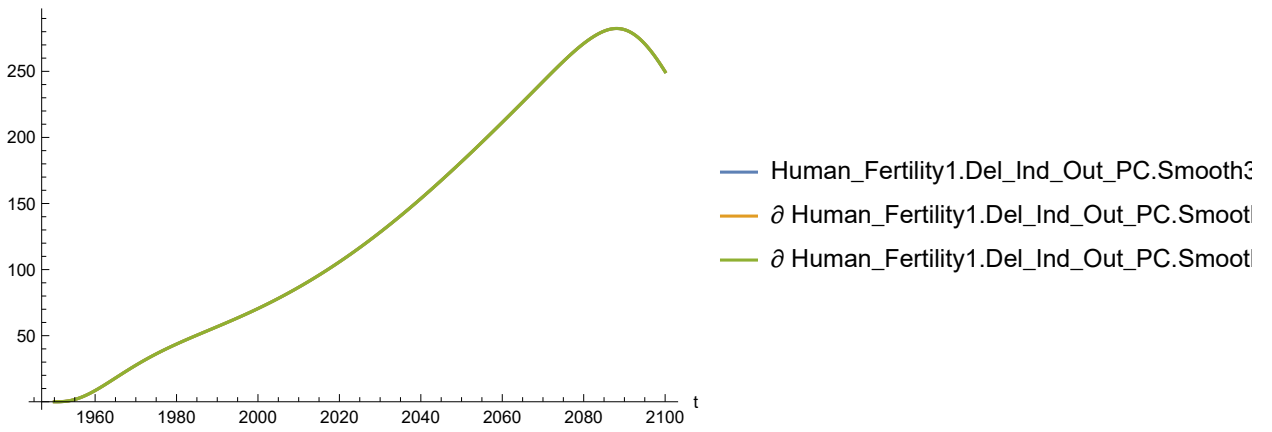
Out[133]=



In[134]:=

```
SystemModelPlot[simsensdata, {"Human_Fertility1.Del_Ind_Out_PC.Smooth3.Integrator1.y",
"Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[4]", percentvar}]
```

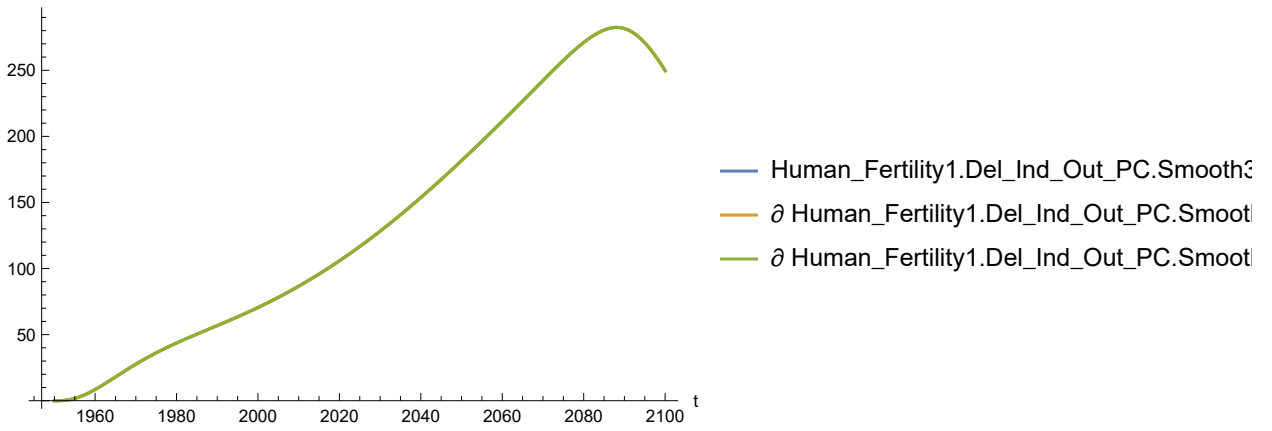
Out[134]=



In[135]:=

```
SystemModelPlot[simsensdata, {"Human_Fertility1.Del_Ind_Out_PC.Smooth3.Integrator1.y",
    "Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[5]", percentvar}]
```

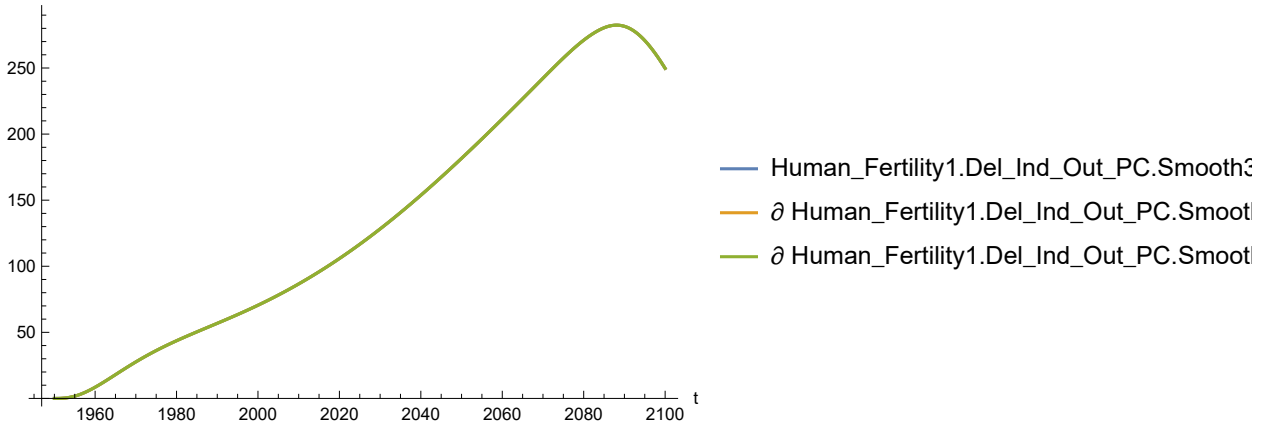
Out[135]=



In[136]:=

```
SystemModelPlot[simsensdata, {"Human_Fertility1.Del_Ind_Out_PC.Smooth3.Integrator1.y",
    "Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[6]", percentvar}]
```

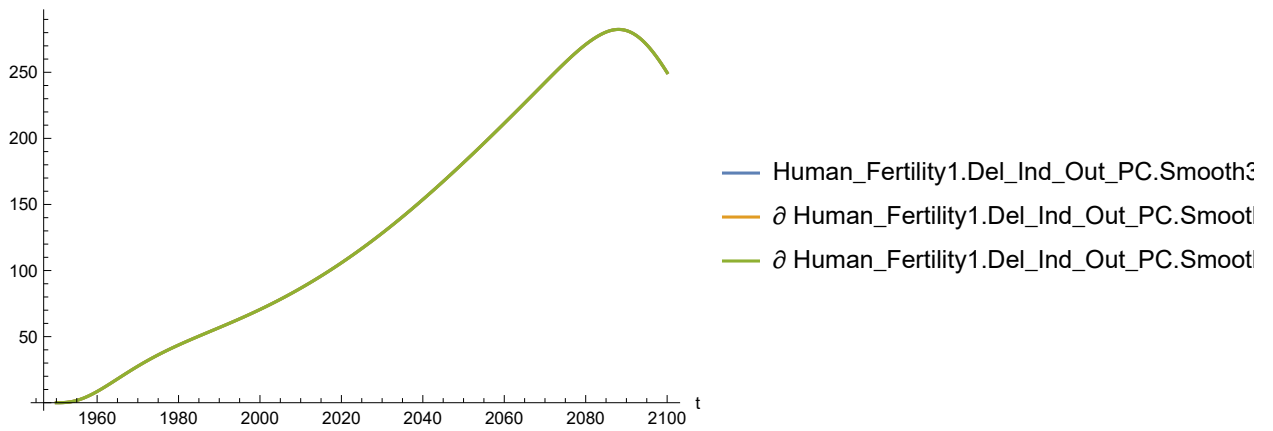
Out[136]=



In[137]:=

```
SystemModelPlot[simsensdata, {"Human_Fertility1.Del_Ind_Out_PC.Smooth3.Integrator1.y",
"Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[7]", percentvar}]]
```

Out[137]=

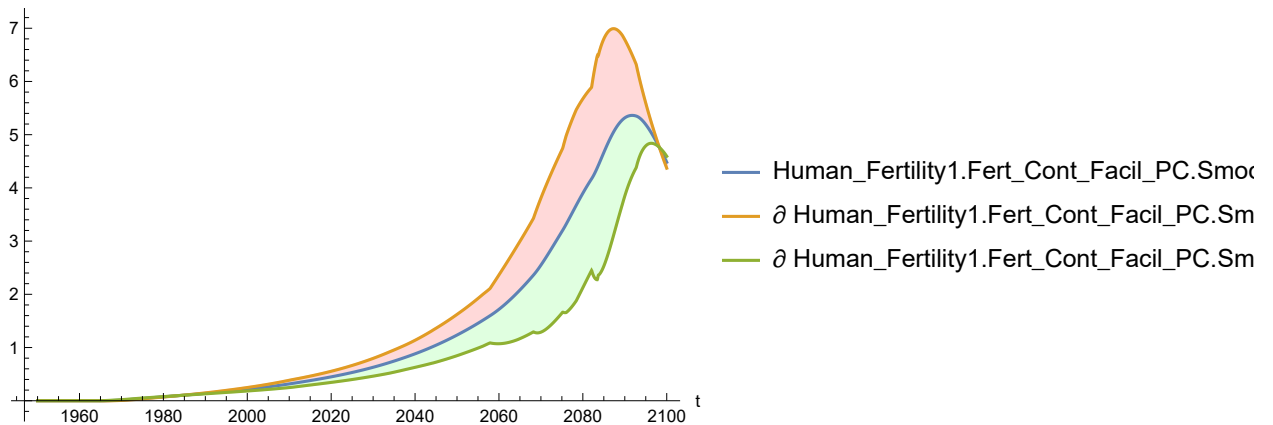


Plot the sensitivity of Human_Fertility1.Fert_Cont_Facil_PC.Smooth1.Integrator1.y to Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals.

In[138]:=

```
SystemModelPlot[simsensdata, {"Human_Fertility1.Fert_Cont_Facil_PC.Smooth1.Integrator1.y",
"Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[1]", percentvar}]]
```

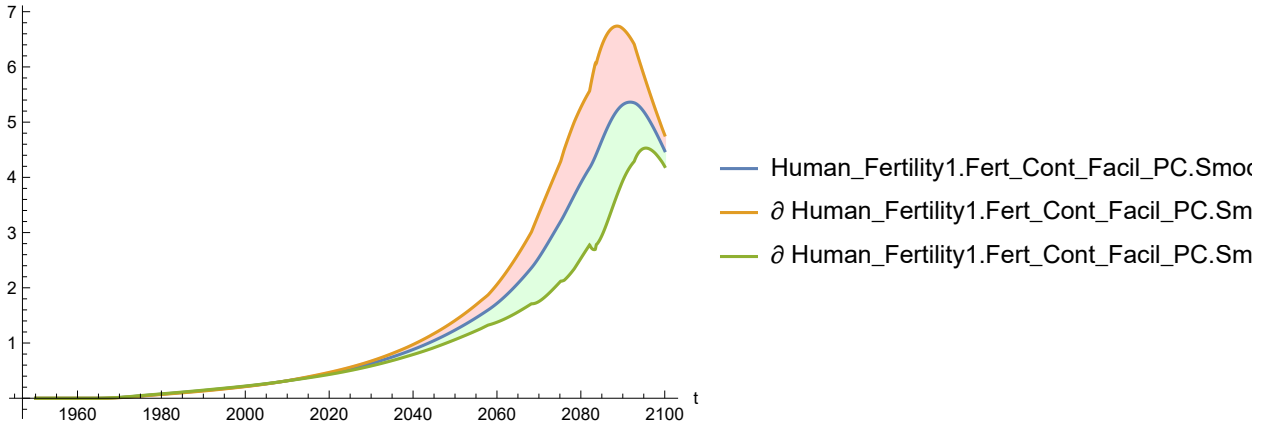
Out[138]=



In[139]:=

```
SystemModelPlot[simsensdata,
  {"Human_Fertility1.Fert_Cont_Facil_PC.Smooth1.Integrator1.y",
   "Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[2]", percentvar}]
```

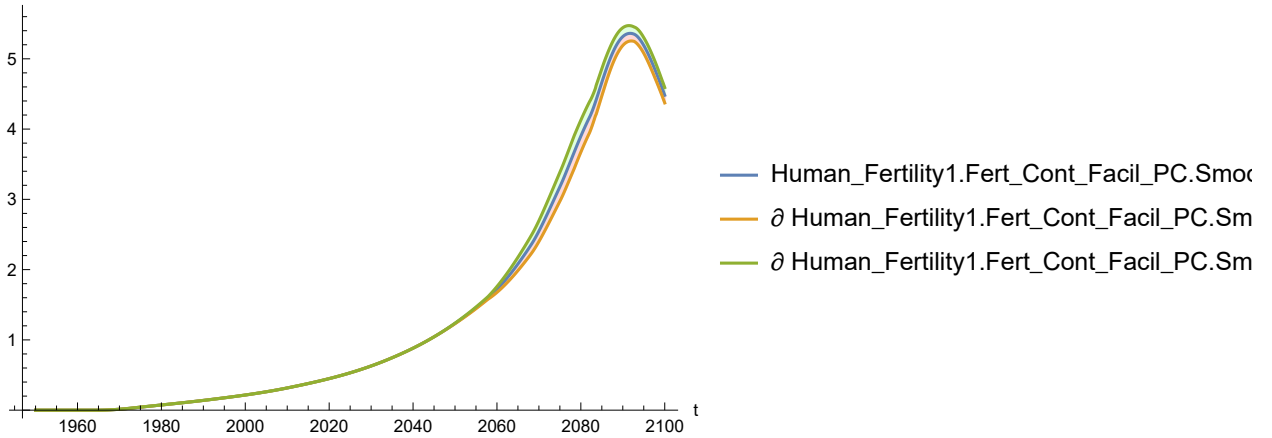
Out[139]=



In[140]:=

```
SystemModelPlot[simsensdata,
  {"Human_Fertility1.Fert_Cont_Facil_PC.Smooth1.Integrator1.y",
   "Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[3]", percentvar}]
```

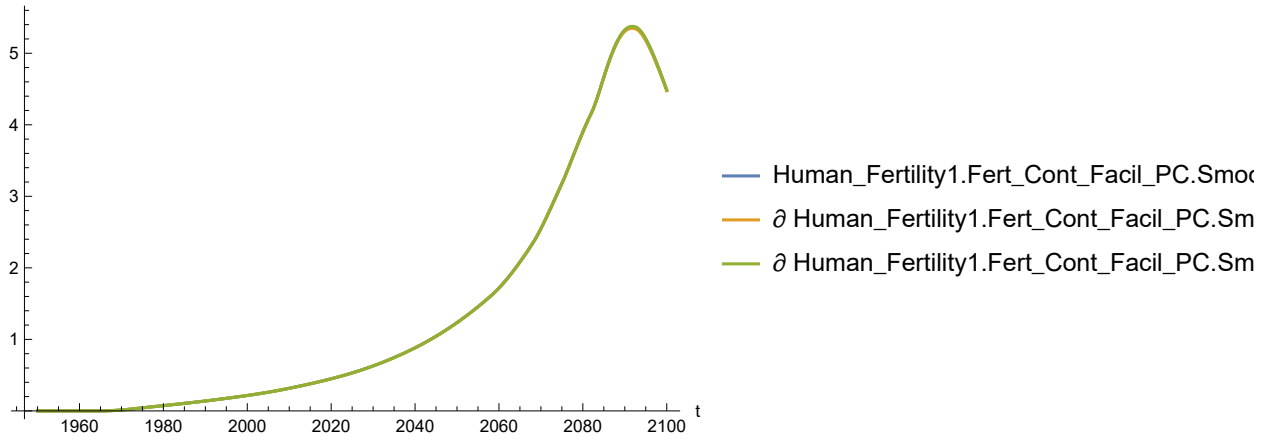
Out[140]=



In[141]:=

```
SystemModelPlot[simsensdata,
  {"Human_Fertility1.Fert_Cont_Facil_PC.Smooth1.Integrator1.y",
   "Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[4]", percentvar}]
```

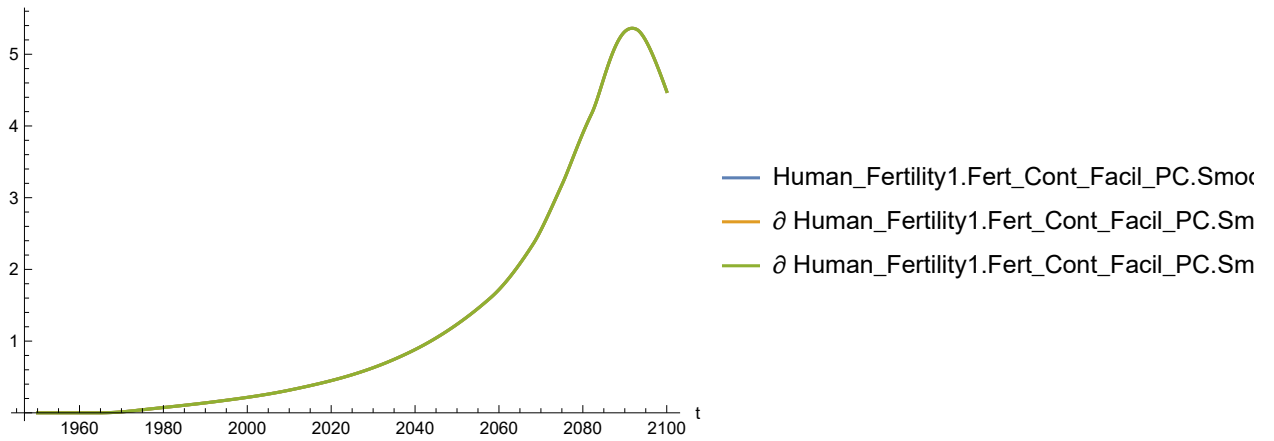
Out[141]=



In[142]:=

```
SystemModelPlot[simsensdata,
  {"Human_Fertility1.Fert_Cont_Facil_PC.Smooth1.Integrator1.y",
   "Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[5]", percentvar}]
```

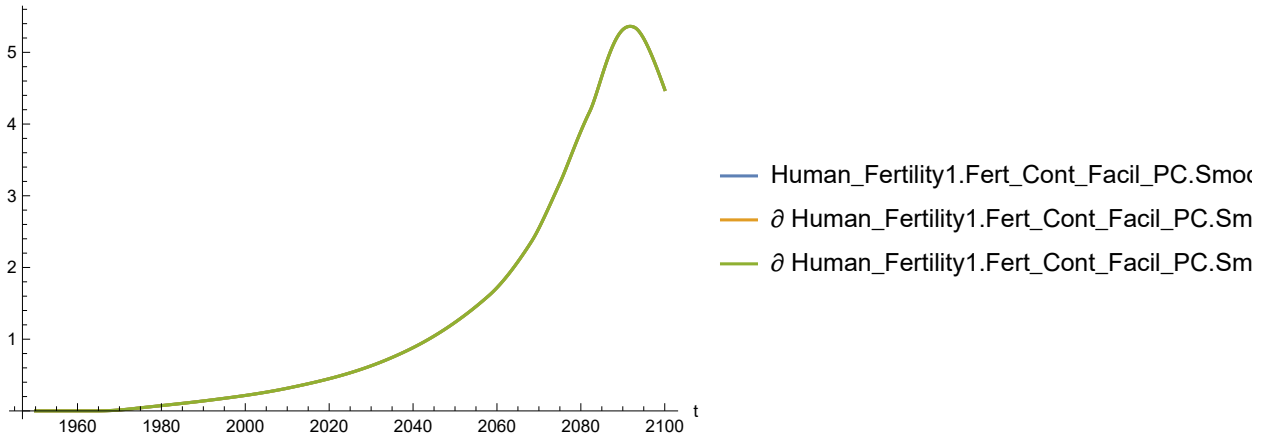
Out[142]=



In[143]:=

```
SystemModelPlot[simsensdata,
  {"Human_Fertility1.Fert_Cont_Facil_PC.Smooth1.Integrator1.y",
   "Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[6]", percentvar}]
```

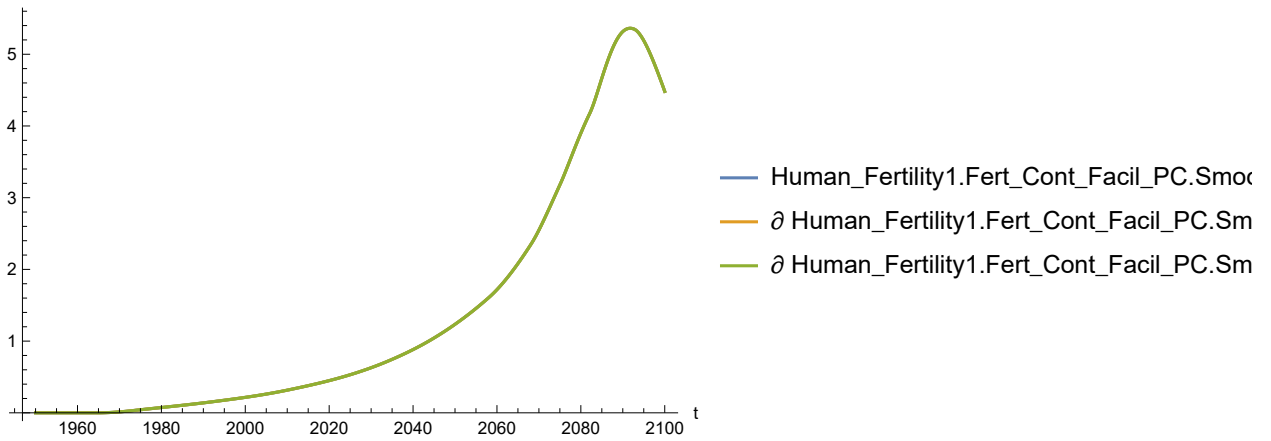
Out[143]=



In[144]:=

```
SystemModelPlot[simsensdata,
  {"Human_Fertility1.Fert_Cont_Facil_PC.Smooth1.Integrator1.y",
   "Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[7]", percentvar}]
```

Out[144]=

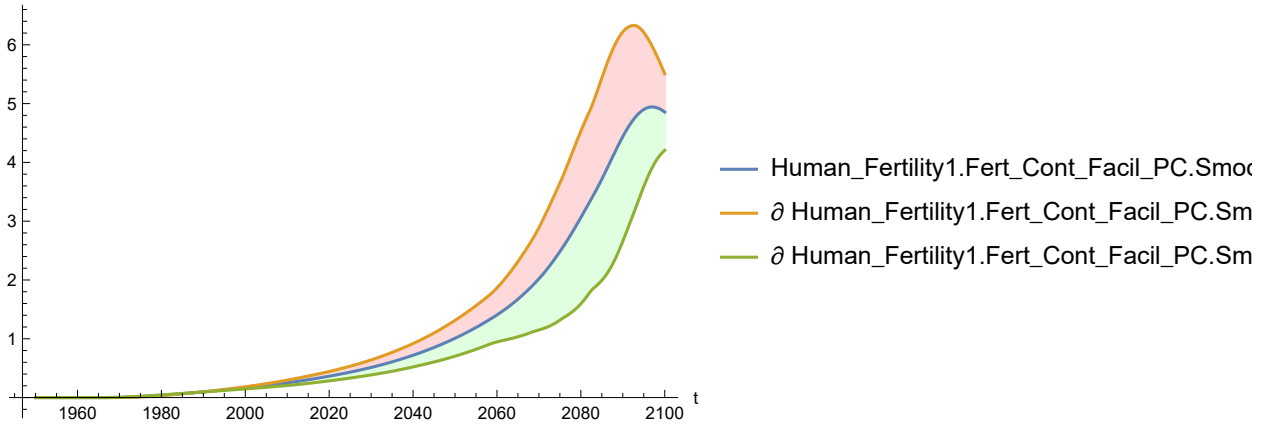


Plot the sensitivity of Human_Fertility1.Fert_Cont_Facil_PC.Smooth2.Integrator1.y to Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals.

In[145]:=

```
SystemModelPlot[simsensdata,
  {"Human_Fertility1.Fert_Cont_Facil_PC.Smooth2.Integrator1.y",
   "Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[1]", percentvar}]
```

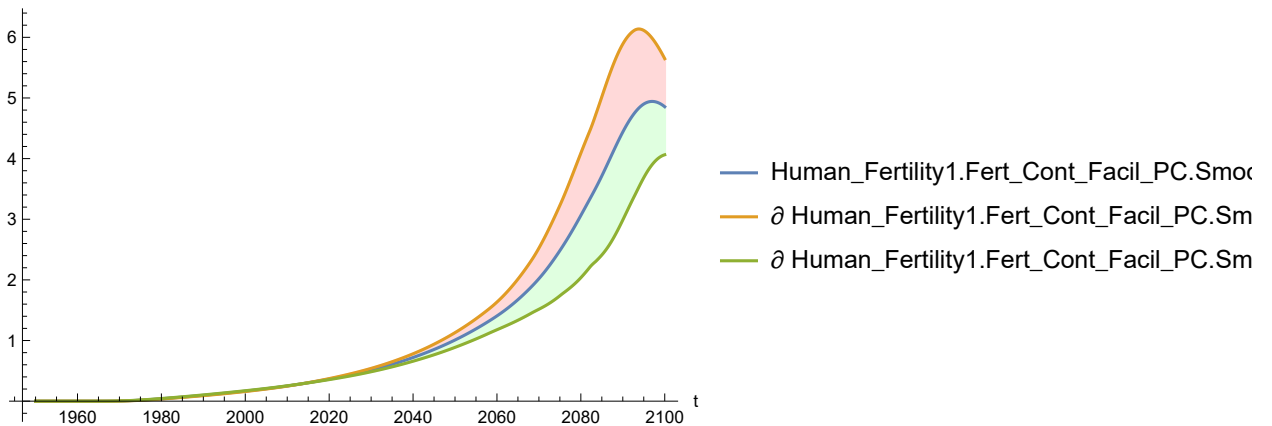
Out[145]=



In[146]:=

```
SystemModelPlot[simsensdata,
  {"Human_Fertility1.Fert_Cont_Facil_PC.Smooth2.Integrator1.y",
   "Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[2]", percentvar}]
```

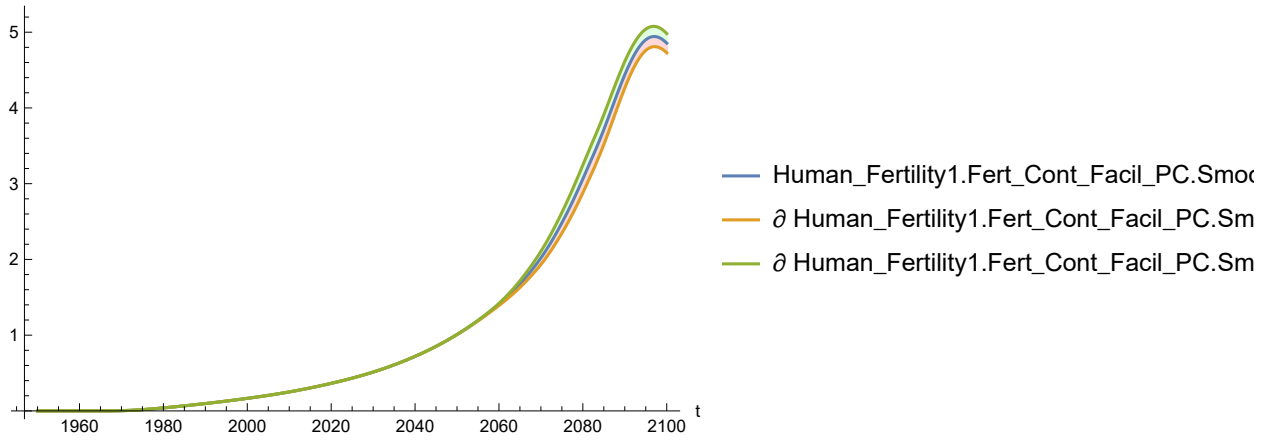
Out[146]=



In[147]:=

```
SystemModelPlot[simsensdata,
  {"Human_Fertility1.Fert_Cont_Facil_PC.Smooth2.Integrator1.y",
   "Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[3]", percentvar}]
```

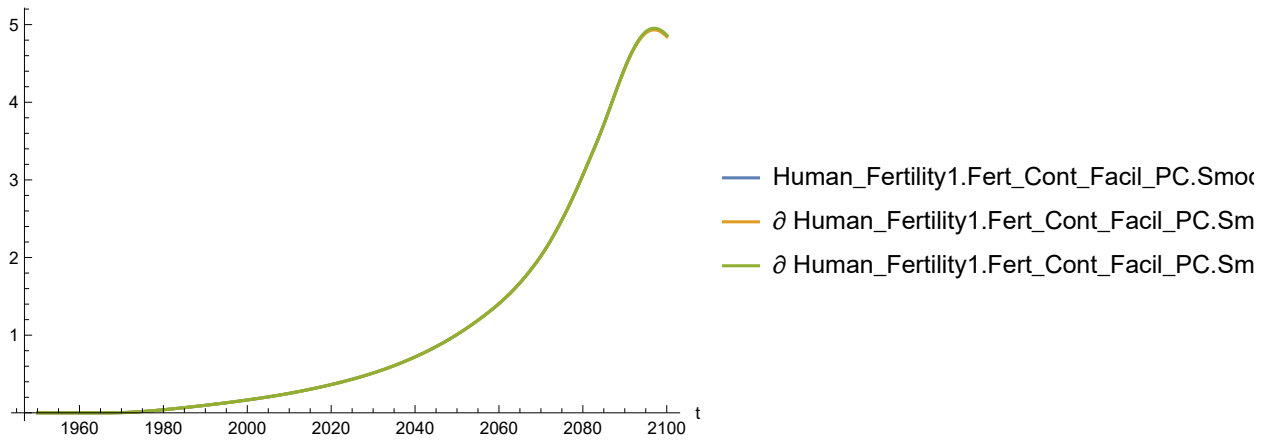
Out[147]=



In[148]:=

```
SystemModelPlot[simsensdata,
  {"Human_Fertility1.Fert_Cont_Facil_PC.Smooth2.Integrator1.y",
   "Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[4]", percentvar}]
```

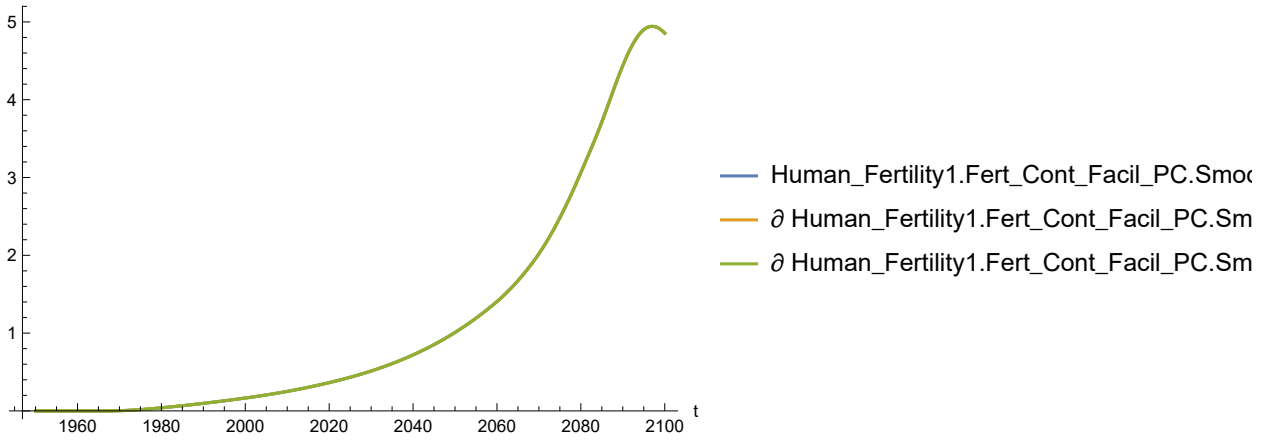
Out[148]=



In[149]:=

```
SystemModelPlot[simsensdata,
  {"Human_Fertility1.Fert_Cont_Facil_PC.Smooth2.Integrator1.y",
   "Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[5]", percentvar}]
```

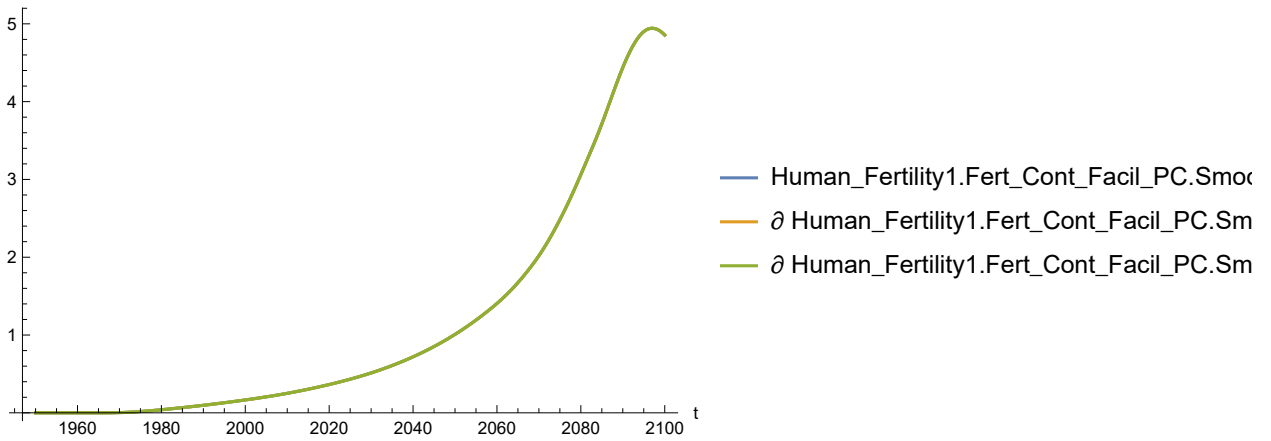
Out[149]=



In[150]:=

```
SystemModelPlot[simsensdata,
  {"Human_Fertility1.Fert_Cont_Facil_PC.Smooth2.Integrator1.y",
   "Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[6]", percentvar}]
```

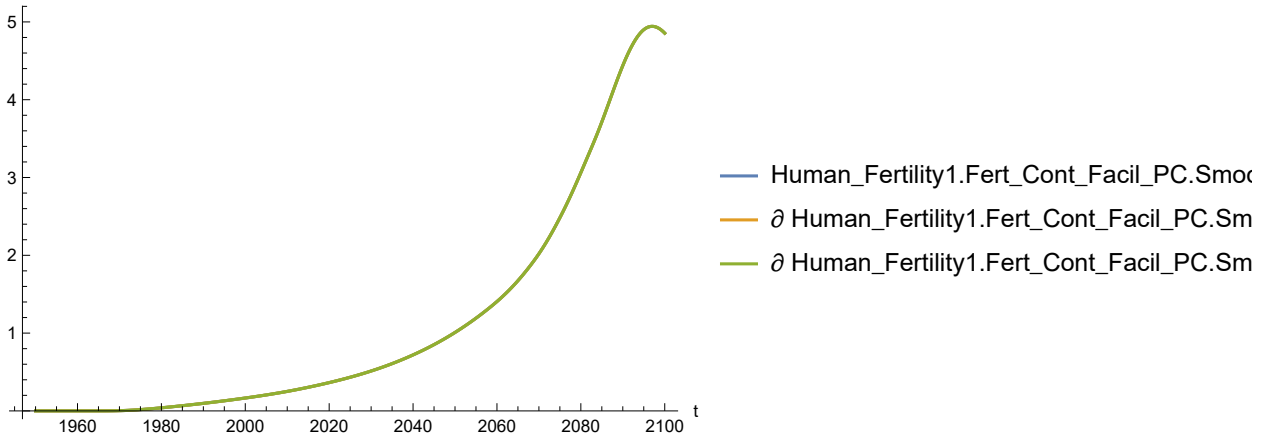
Out[150]=



In[151]:=

```
SystemModelPlot[simsensdata,
  {"Human_Fertility1.Fert_Cont_Facil_PC.Smooth2.Integrator1.y",
   "Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[7]", percentvar}]
```

Out[151]=

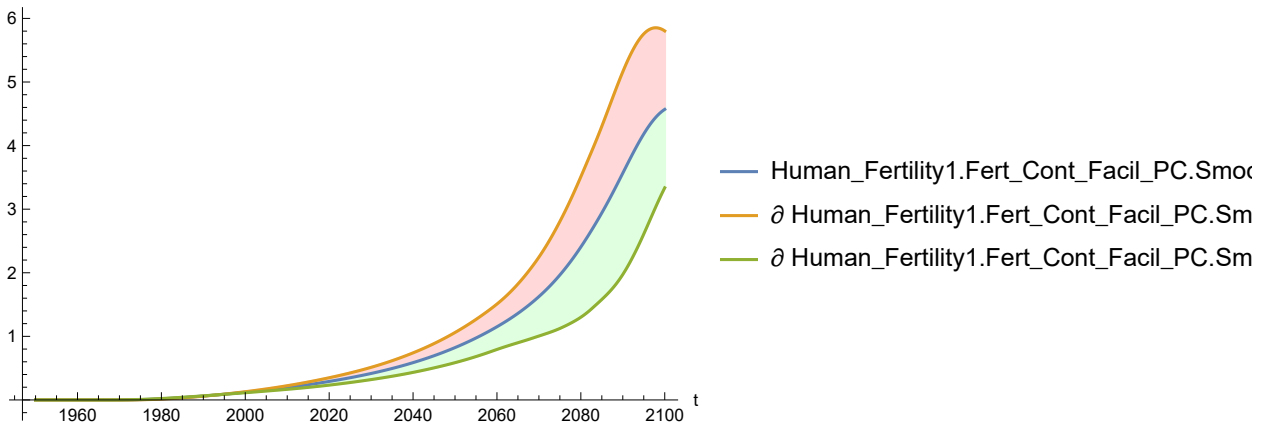


Plot the sensitivity of Human_Fertility1.Fert_Cont_Facil_PC.Smooth3.Integrator1.y to Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals.

In[152]:=

```
SystemModelPlot[simsensdata,
  {"Human_Fertility1.Fert_Cont_Facil_PC.Smooth3.Integrator1.y",
   "Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[1]", percentvar}]
```

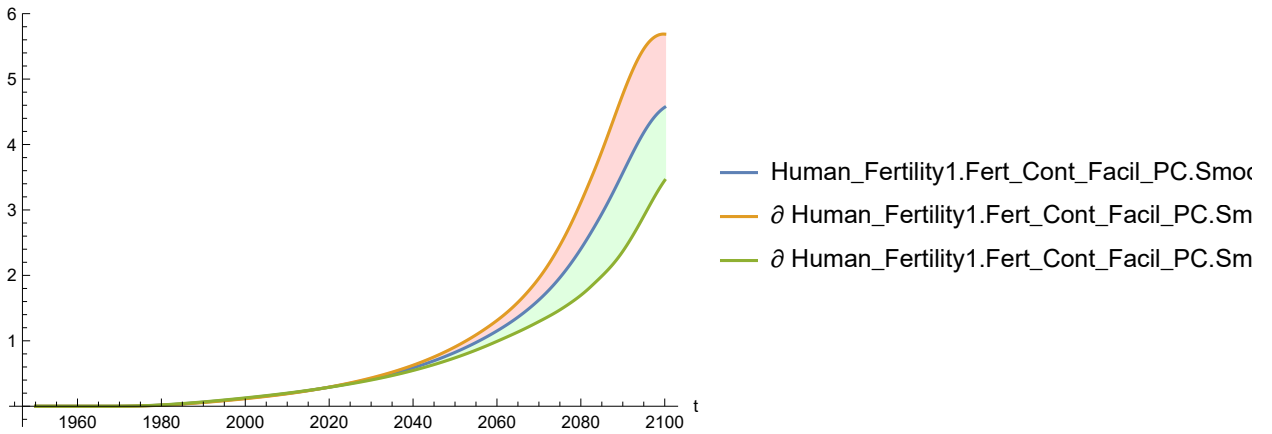
Out[152]=



In[153]:=

```
SystemModelPlot[simsensdata,
  {"Human_Fertility1.Fert_Cont_Facil_PC.Smooth3.Integrator1.y",
   "Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[2]", percentvar}]
```

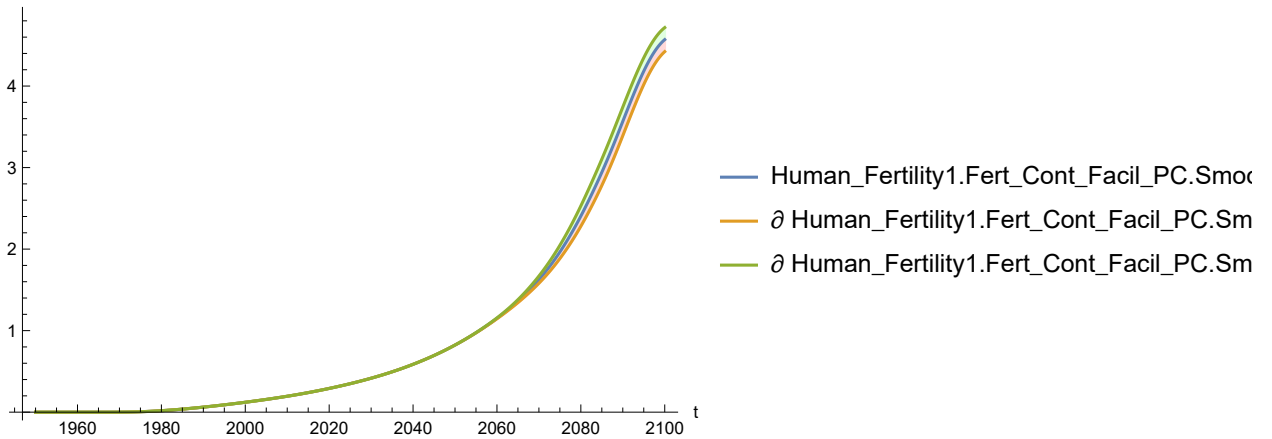
Out[153]=



In[154]:=

```
SystemModelPlot[simsensdata,
  {"Human_Fertility1.Fert_Cont_Facil_PC.Smooth3.Integrator1.y",
   "Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[3]", percentvar}]
```

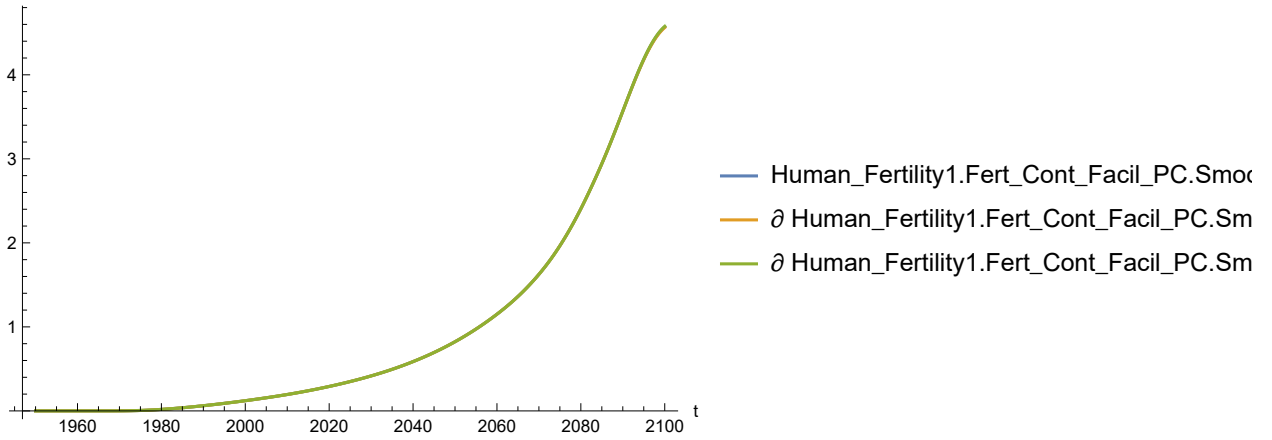
Out[154]=



In[155]:=

```
SystemModelPlot[simsensdata,
  {"Human_Fertility1.Fert_Cont_Facil_PC.Smooth3.Integrator1.y",
   "Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[4]", percentvar}]
```

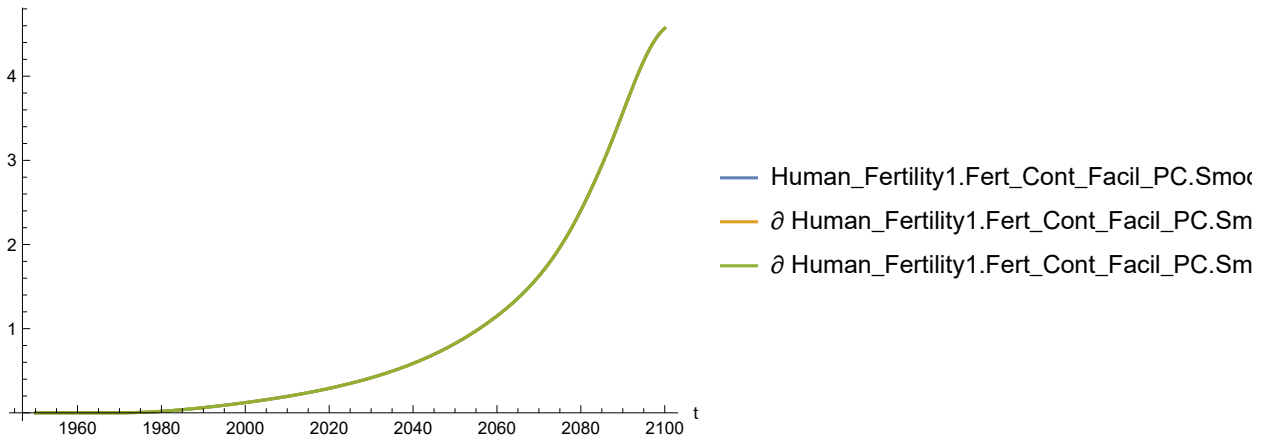
Out[155]=



In[156]:=

```
SystemModelPlot[simsensdata,
  {"Human_Fertility1.Fert_Cont_Facil_PC.Smooth3.Integrator1.y",
   "Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[5]", percentvar}]
```

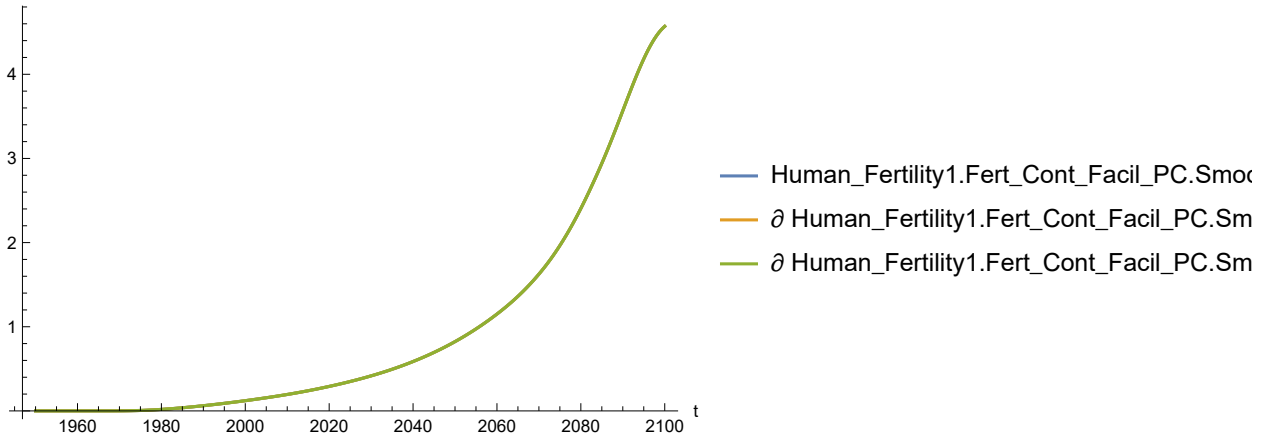
Out[156]=



In[157]:=

```
SystemModelPlot[simsensdata,
  {"Human_Fertility1.Fert_Cont_Facil_PC.Smooth3.Integrator1.y",
   "Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[6]", percentvar}]
```

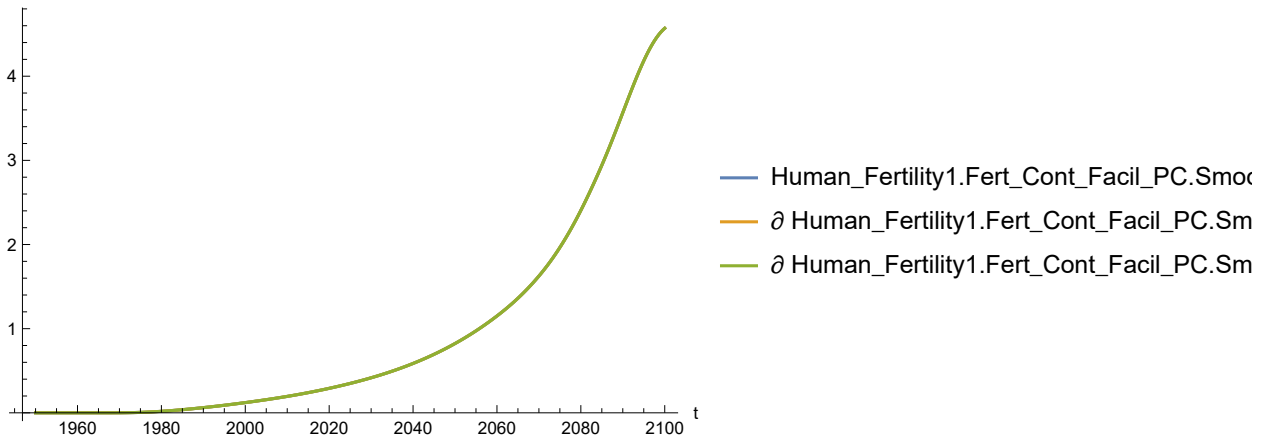
Out[157]=



In[158]:=

```
SystemModelPlot[simsensdata,
  {"Human_Fertility1.Fert_Cont_Facil_PC.Smooth3.Integrator1.y",
   "Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[7]", percentvar}]
```

Out[158]=

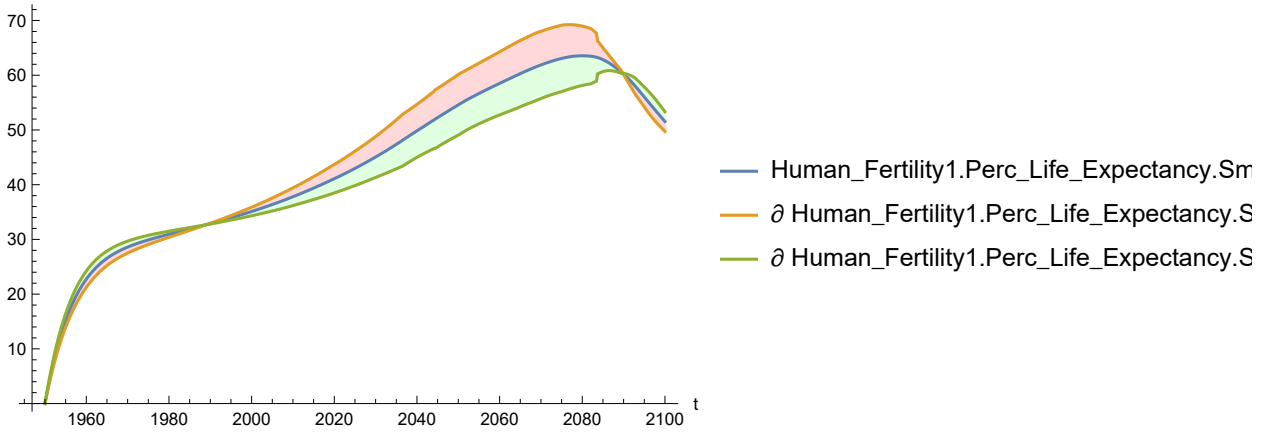


Plot the sensitivity of `Human_Fertility1.Perc_Life_Expectancy.Smooth1.Integrator1.y` to `Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals`.

In[159]:=

```
SystemModelPlot[simsensdata,
  {"Human_Fertility1.Perc_Life_Expectancy.Smooth1.Integrator1.y",
   "Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[1]", percentvar}]
```

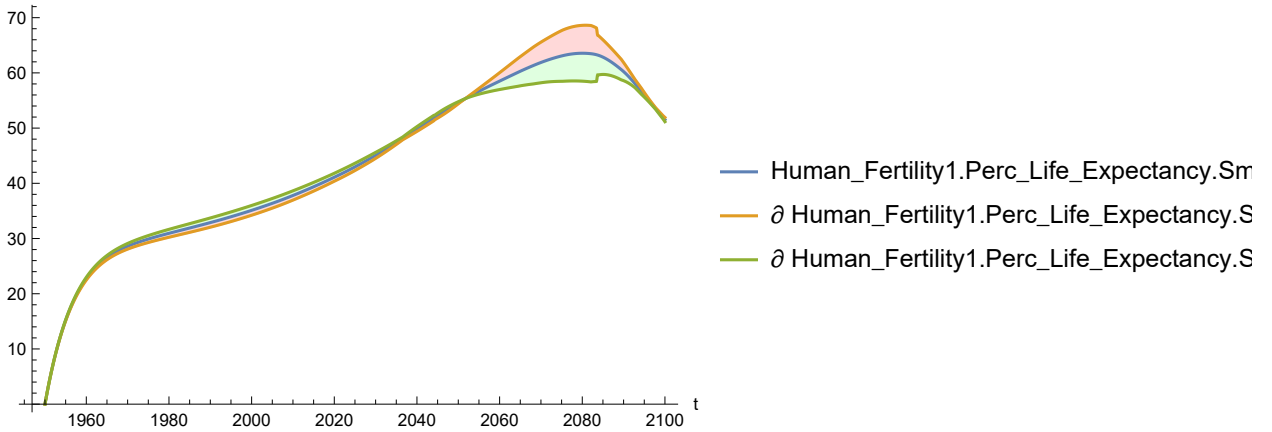
Out[159]=



In[160]:=

```
SystemModelPlot[simsensdata,
  {"Human_Fertility1.Perc_Life_Expectancy.Smooth1.Integrator1.y",
   "Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[2]", percentvar}]
```

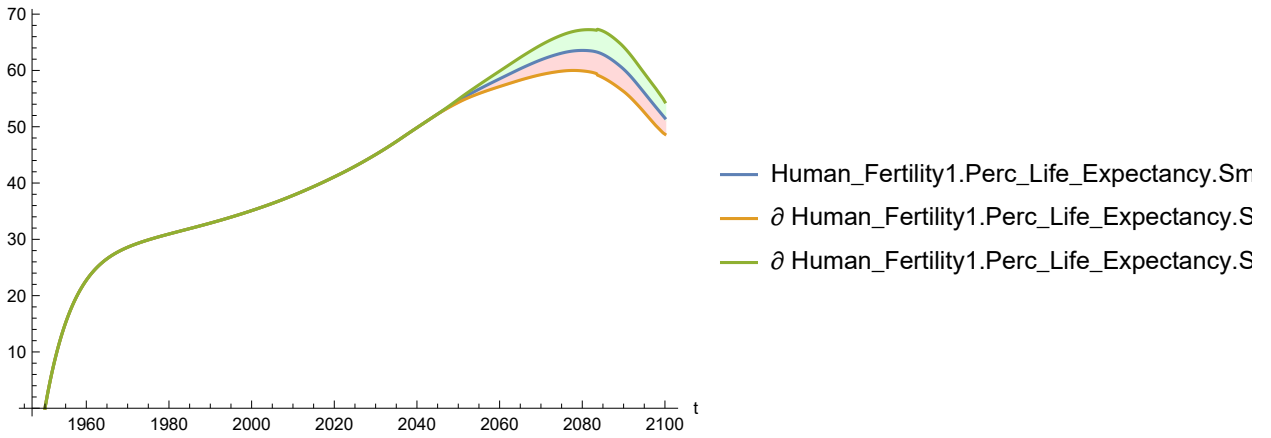
Out[160]=



In[161]:=

```
SystemModelPlot[simsensdata,
  {"Human_Fertility1.Perc_Life_Expectancy.Smooth1.Integrator1.y",
   "Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[3]", percentvar}]
```

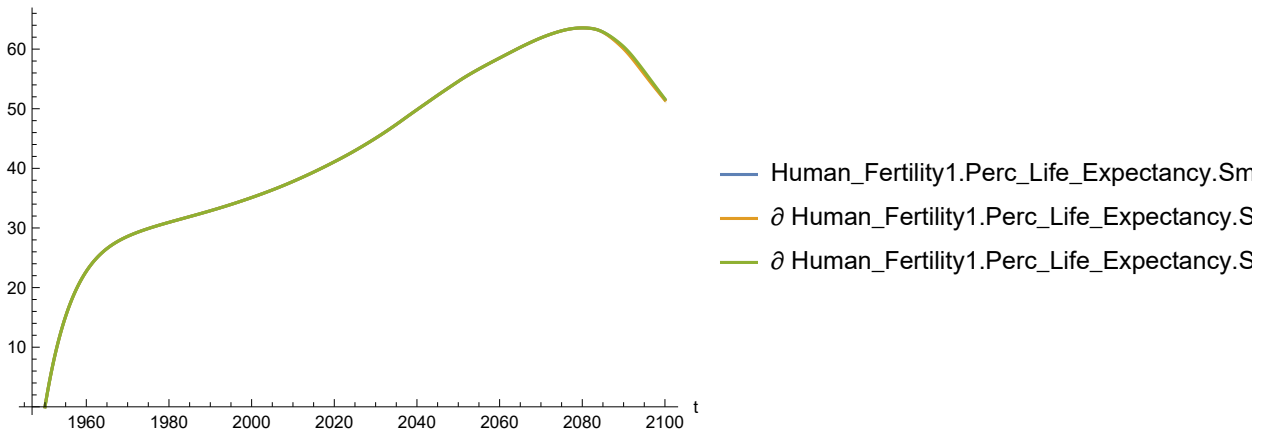
Out[161]=



In[162]:=

```
SystemModelPlot[simsensdata,
  {"Human_Fertility1.Perc_Life_Expectancy.Smooth1.Integrator1.y",
   "Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[4]", percentvar}]
```

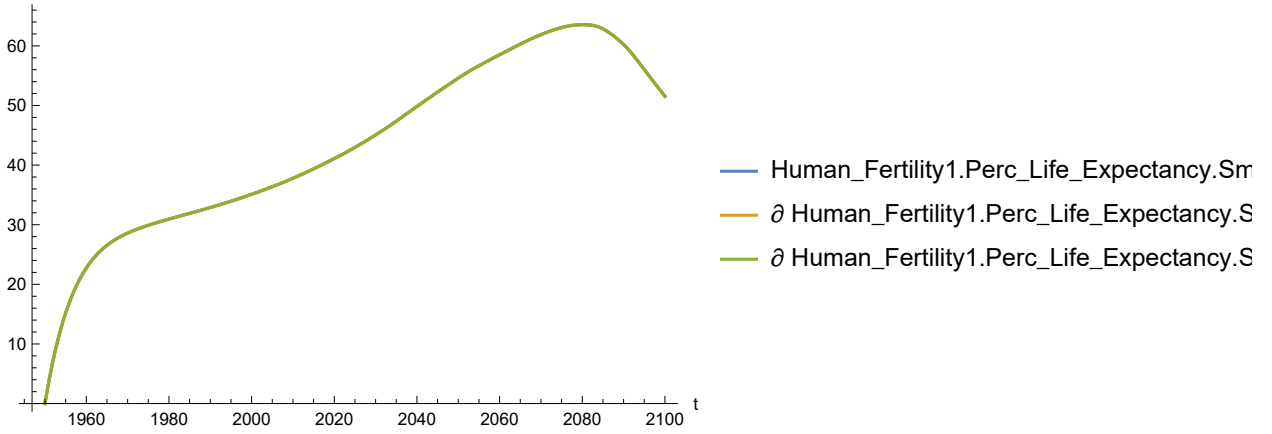
Out[162]=



In[163]:=

```
SystemModelPlot[simsensdata,
  {"Human_Fertility1.Perc_Life_Expectancy.Smooth1.Integrator1.y",
   "Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[5]", percentvar}]
```

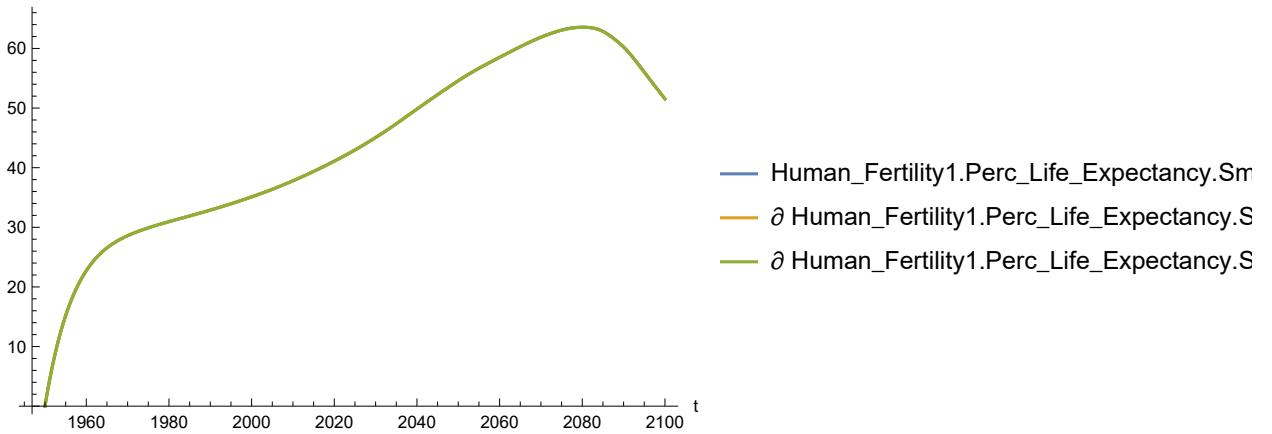
Out[163]=



In[164]:=

```
SystemModelPlot[simsensdata,
  {"Human_Fertility1.Perc_Life_Expectancy.Smooth1.Integrator1.y",
   "Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[6]", percentvar}]
```

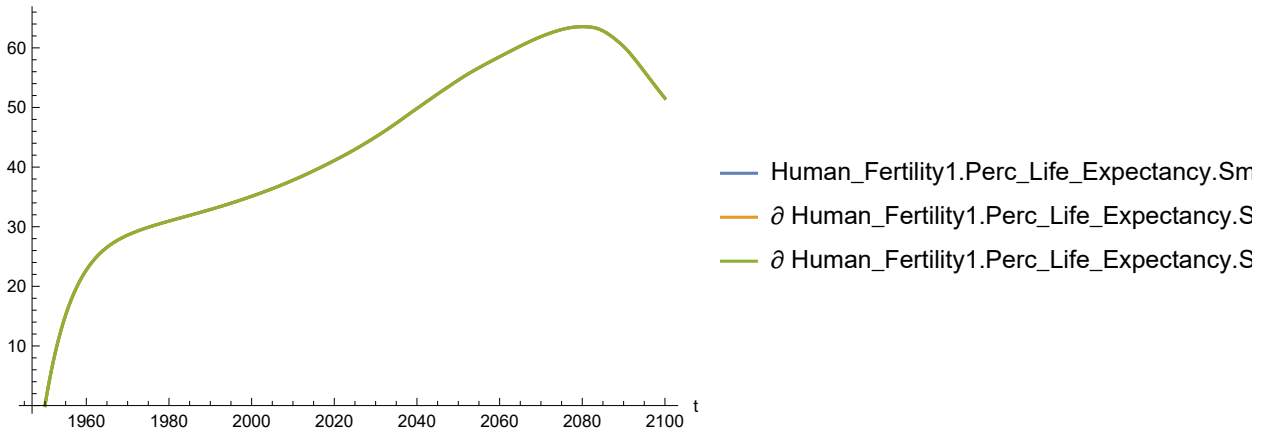
Out[164]=



In[165]:=

```
SystemModelPlot[simsensdata,
  {"Human_Fertility1.Perc_Life_Expectancy.Smooth1.Integrator1.y",
   "Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[7]", percentvar}]
```

Out[165]=

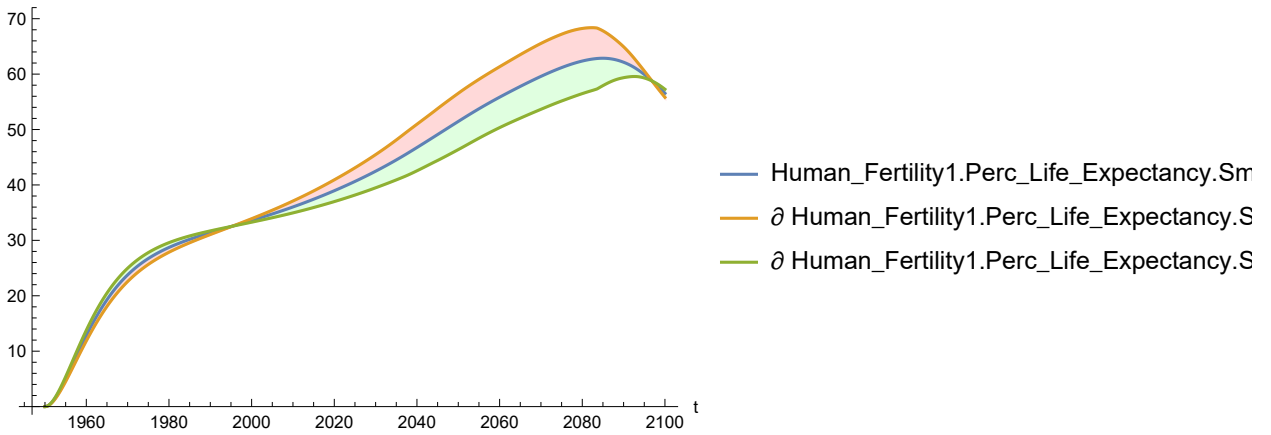


Plot the sensitivity of Human_Fertility1.Perc_Life_Expectancy.Smooth2.Integrator1.y to Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals.

In[166]:=

```
SystemModelPlot[simsensdata,
  {"Human_Fertility1.Perc_Life_Expectancy.Smooth2.Integrator1.y",
   "Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[1]", percentvar}]
```

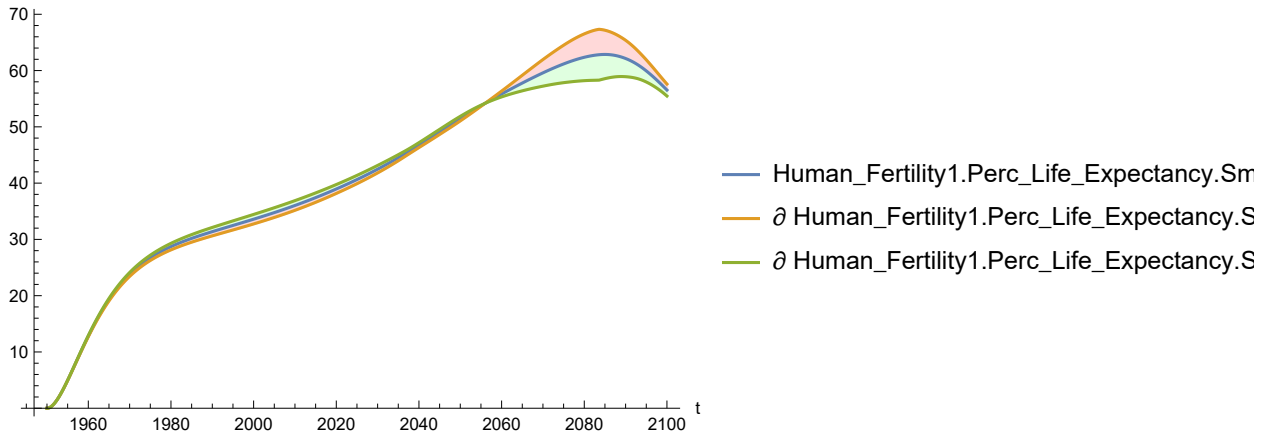
Out[166]=



In[167]:=

```
SystemModelPlot[simsensdata,
  {"Human_Fertility1.Perc_Life_Expectancy.Smooth2.Integrator1.y",
   "Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[2]", percentvar}]
```

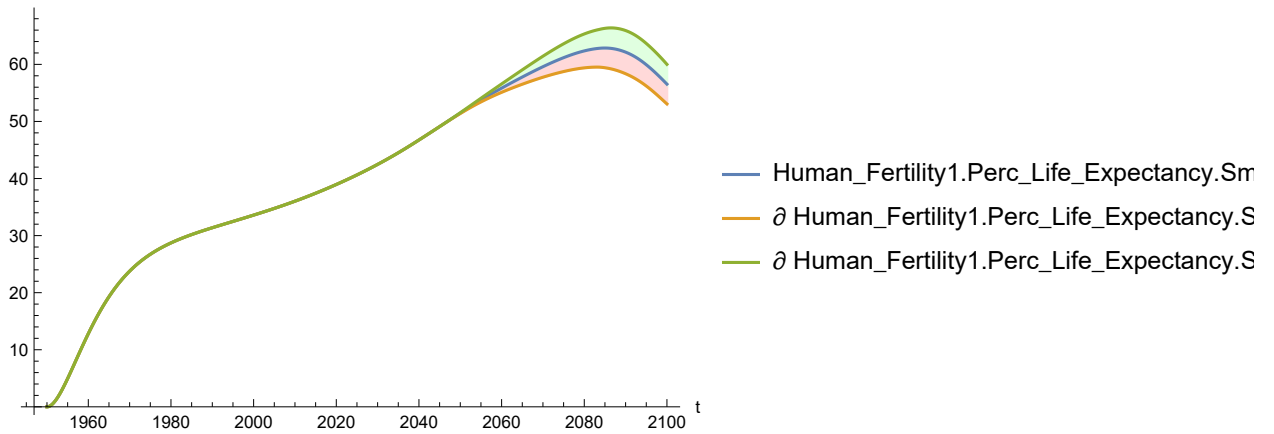
Out[167]=



In[168]:=

```
SystemModelPlot[simsensdata,
  {"Human_Fertility1.Perc_Life_Expectancy.Smooth2.Integrator1.y",
   "Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[3]", percentvar}]
```

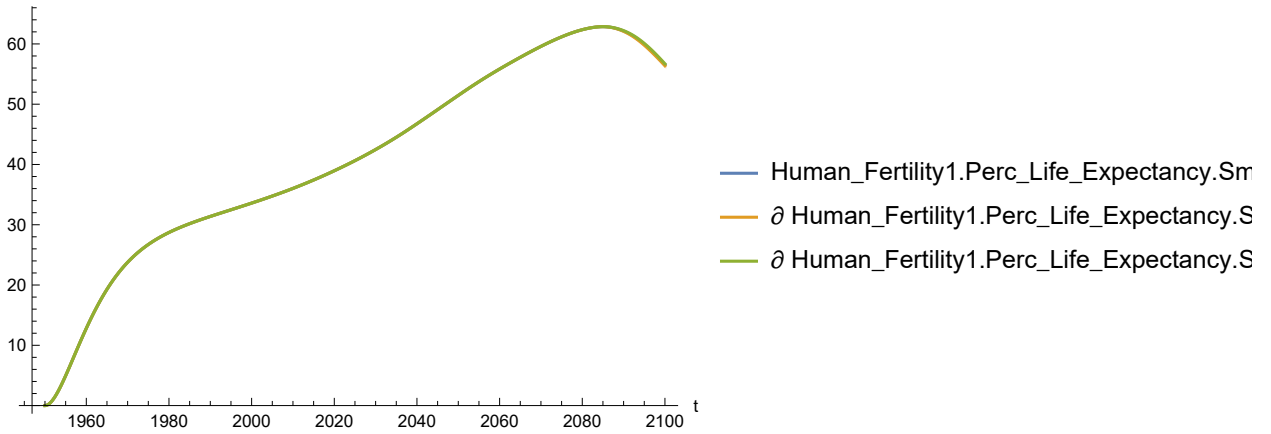
Out[168]=



In[169]:=

```
SystemModelPlot[simsensdata,
  {"Human_Fertility1.Perc_Life_Expectancy.Smooth2.Integrator1.y",
   "Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[4]", percentvar}]
```

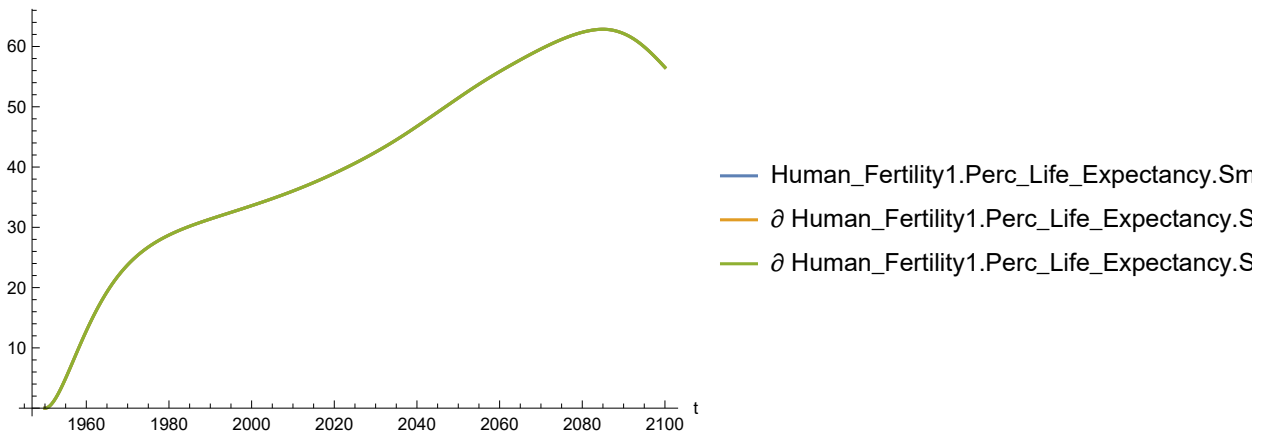
Out[169]=



In[170]:=

```
SystemModelPlot[simsensdata,
  {"Human_Fertility1.Perc_Life_Expectancy.Smooth2.Integrator1.y",
   "Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[5]", percentvar}]
```

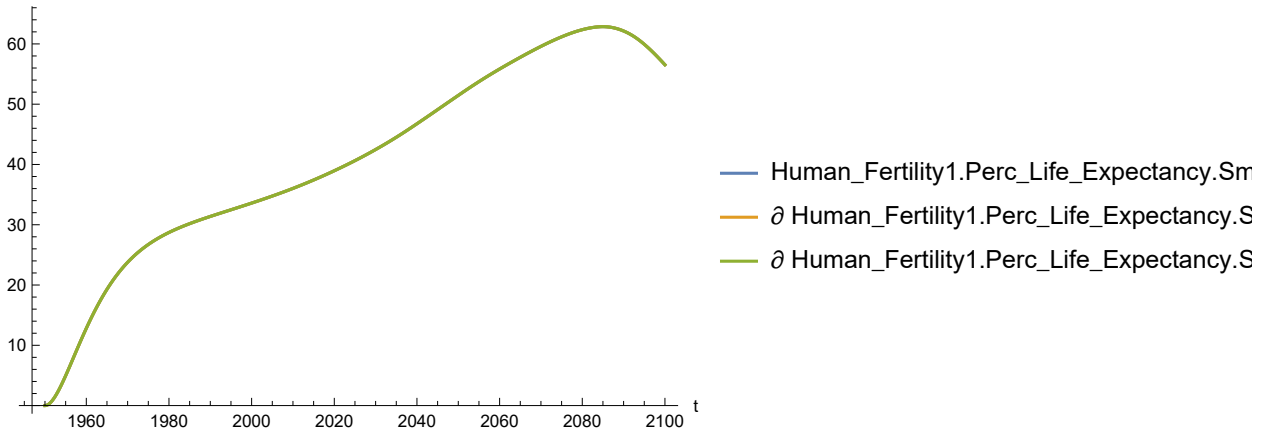
Out[170]=



In[171]:=

```
SystemModelPlot[simsensdata,
  {"Human_Fertility1.Perc_Life_Expectancy.Smooth2.Integrator1.y",
   "Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[6]", percentvar}]
```

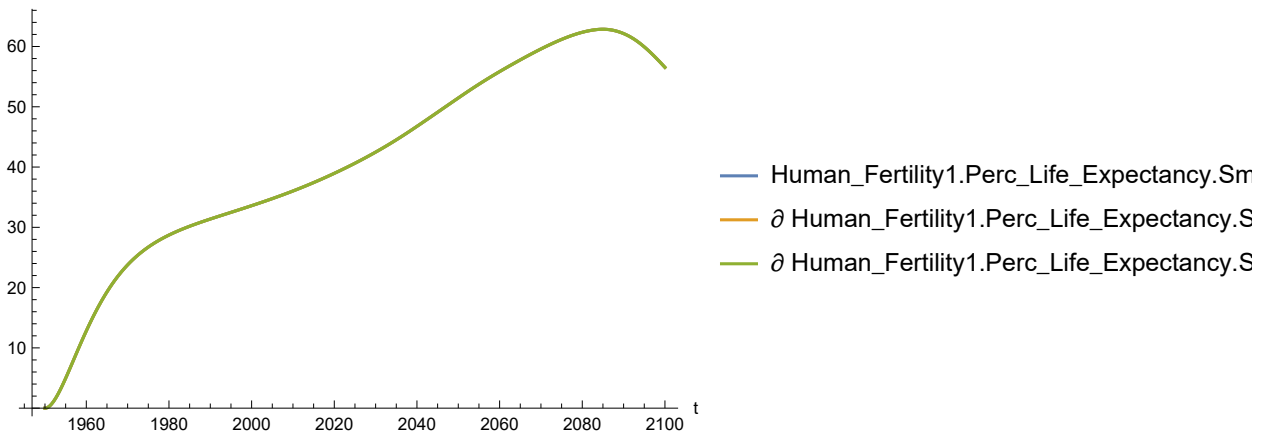
Out[171]=



In[172]:=

```
SystemModelPlot[simsensdata,
  {"Human_Fertility1.Perc_Life_Expectancy.Smooth2.Integrator1.y",
   "Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[7]", percentvar}]
```

Out[172]=

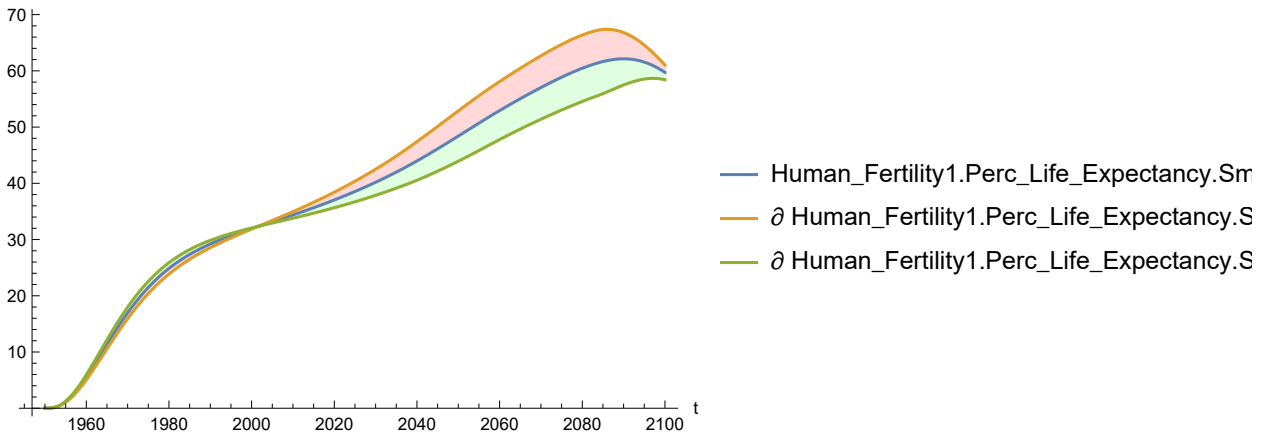


Plot the sensitivity of `Human_Fertility1.Perc_Life_Expectancy.Smooth3.Integrator1.y` to `Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals`.

In[173]:=

```
SystemModelPlot[simsensdata,
  {"Human_Fertility1.Perc_Life_Expectancy.Smooth3.Integrator1.y",
   "Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[1]", percentvar}]
```

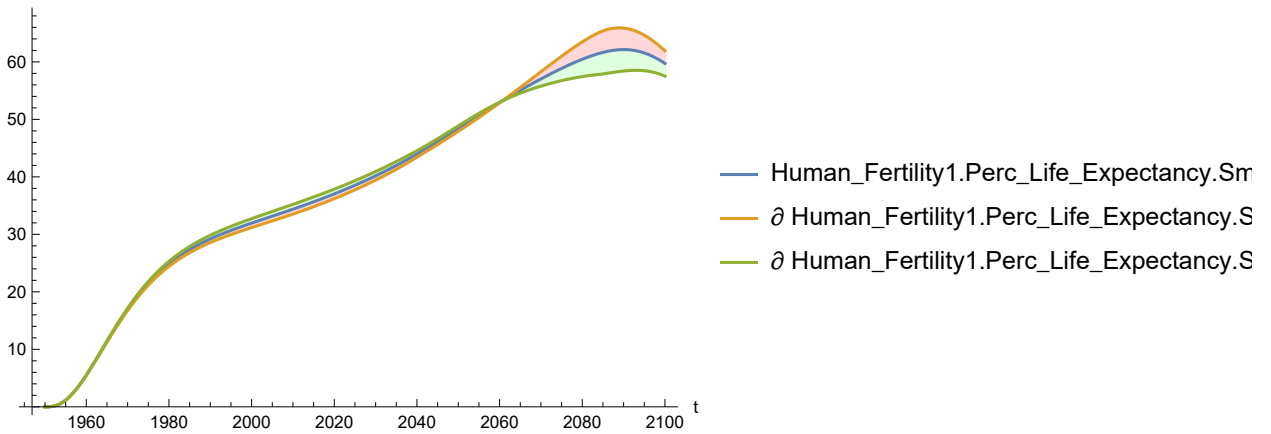
Out[173]=



In[174]:=

```
SystemModelPlot[simsensdata,
  {"Human_Fertility1.Perc_Life_Expectancy.Smooth3.Integrator1.y",
   "Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[2]", percentvar}]
```

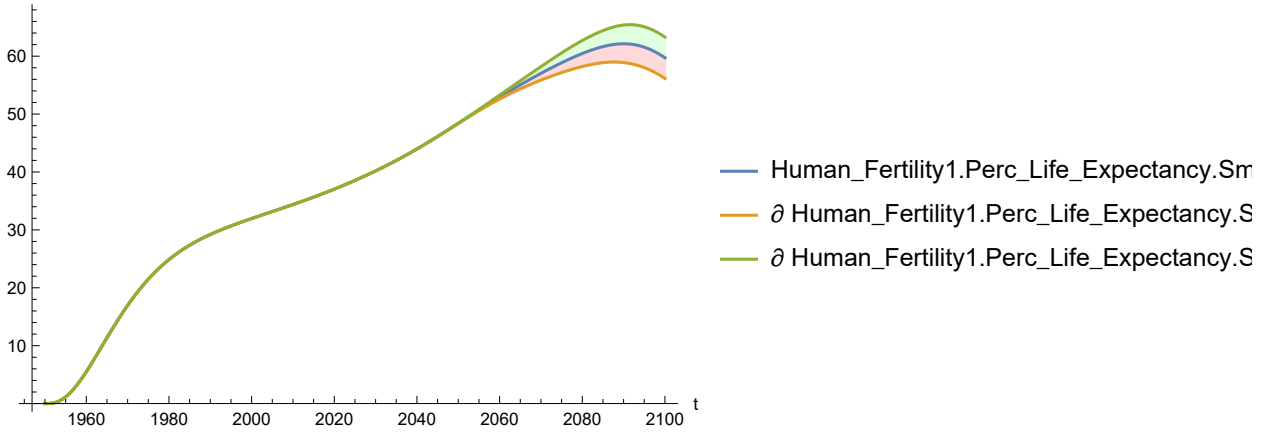
Out[174]=



In[175]:=

```
SystemModelPlot[simsensdata,
  {"Human_Fertility1.Perc_Life_Expectancy.Smooth3.Integrator1.y",
   "Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[3]", percentvar}]
```

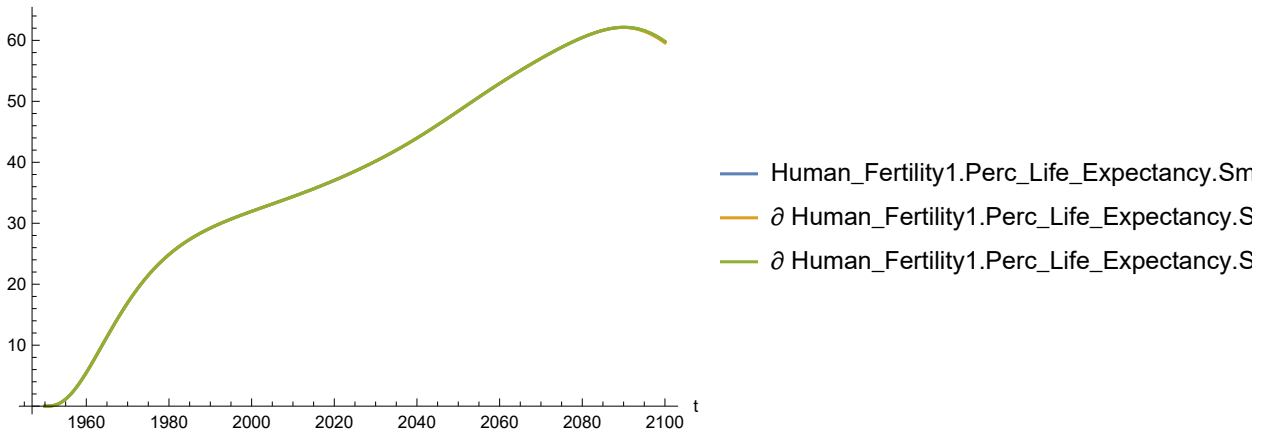
Out[175]=



In[176]:=

```
SystemModelPlot[simsensdata,
  {"Human_Fertility1.Perc_Life_Expectancy.Smooth3.Integrator1.y",
   "Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[4]", percentvar}]
```

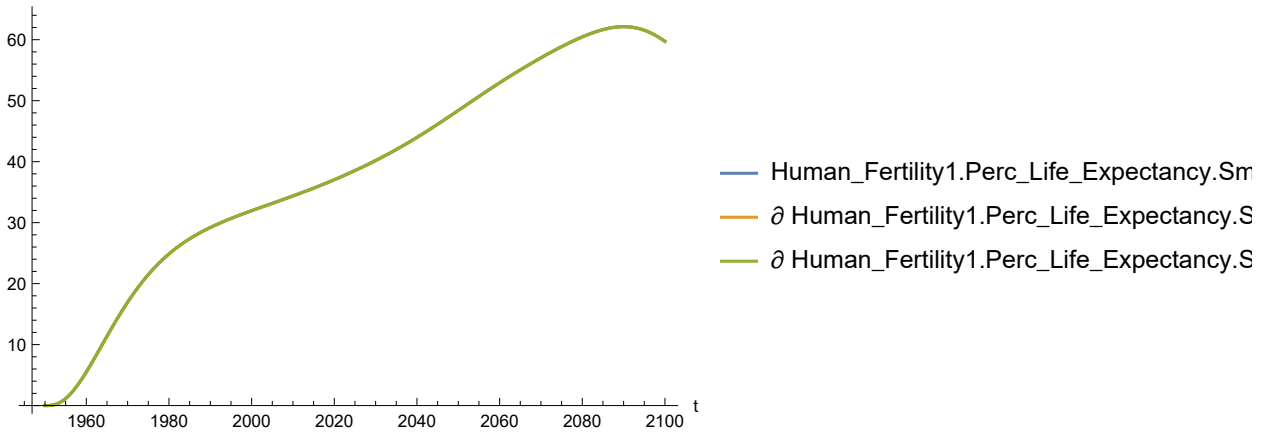
Out[176]=



In[177]:=

```
SystemModelPlot[simsensdata,
  {"Human_Fertility1.Perc_Life_Expectancy.Smooth3.Integrator1.y",
   "Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[5]", percentvar}]
```

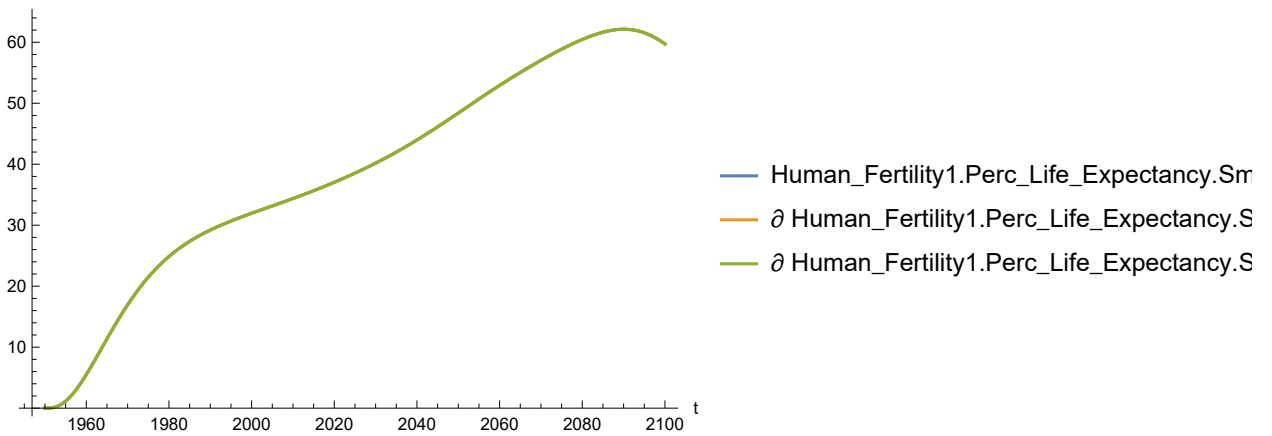
Out[177]=



In[178]:=

```
SystemModelPlot[simsensdata,
  {"Human_Fertility1.Perc_Life_Expectancy.Smooth3.Integrator1.y",
   "Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[6]", percentvar}]
```

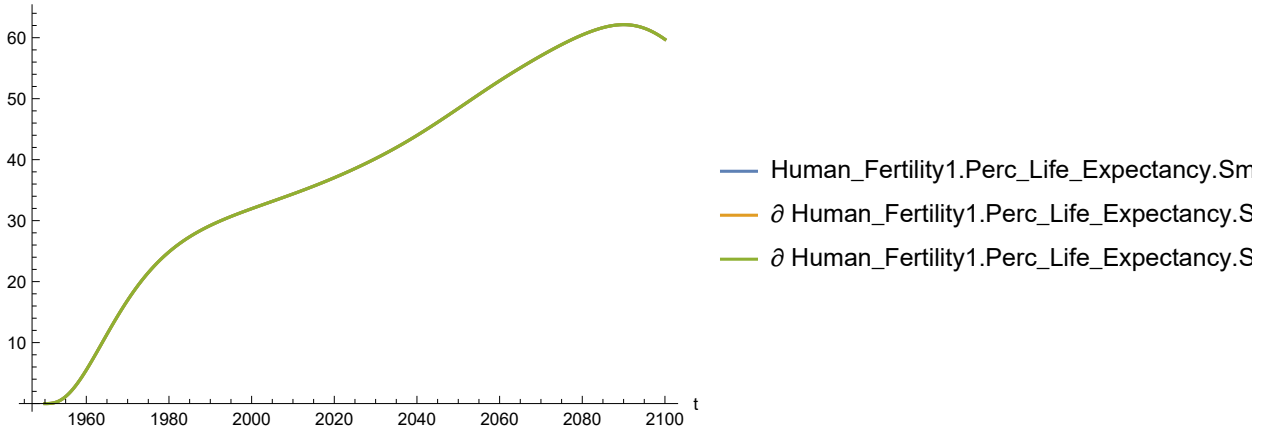
Out[178]=



In[179]:=

```
SystemModelPlot[simsensdata,
  {"Human_Fertility1.Perc_Life_Expectancy.Smooth3.Integrator1.y",
   "Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[7]", percentvar}]
```

Out[179]=

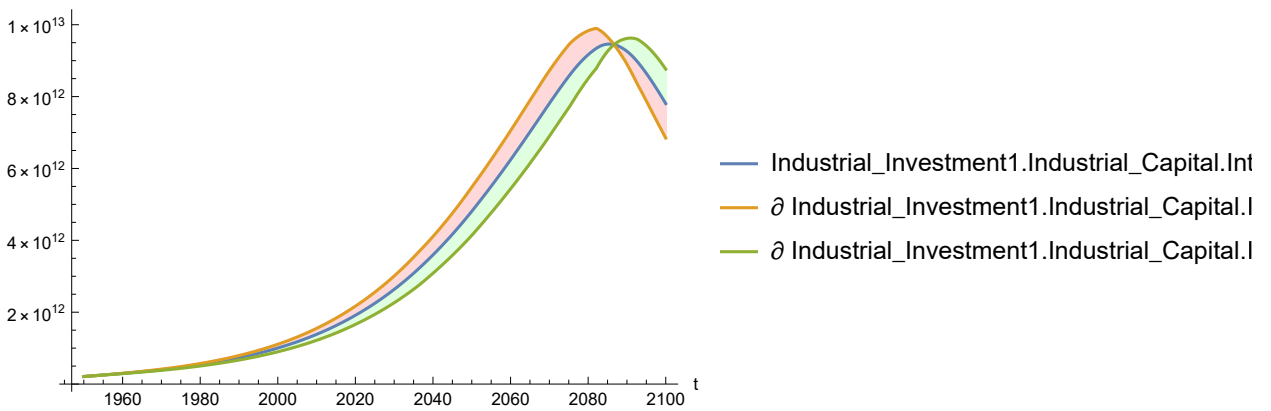


Plot the sensitivity of Industrial_Investment1.Industrial_Capital.Integrator1.y to Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals.

In[180]:=

```
SystemModelPlot[simsensdata, {"Industrial_Investment1.Industrial_Capital.Integrator1.y",
  "Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[1]", percentvar}]
```

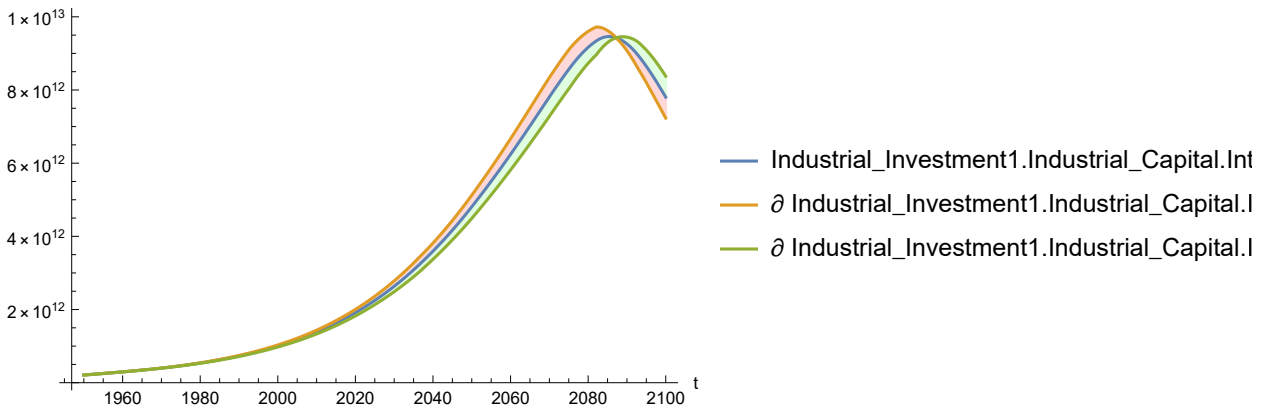
Out[180]=



In[181]:=

```
SystemModelPlot[simsensdata, {"Industrial_Investment1.Industrial_Capital.Integrator1.y",
"Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[2]", percentvar}]
```

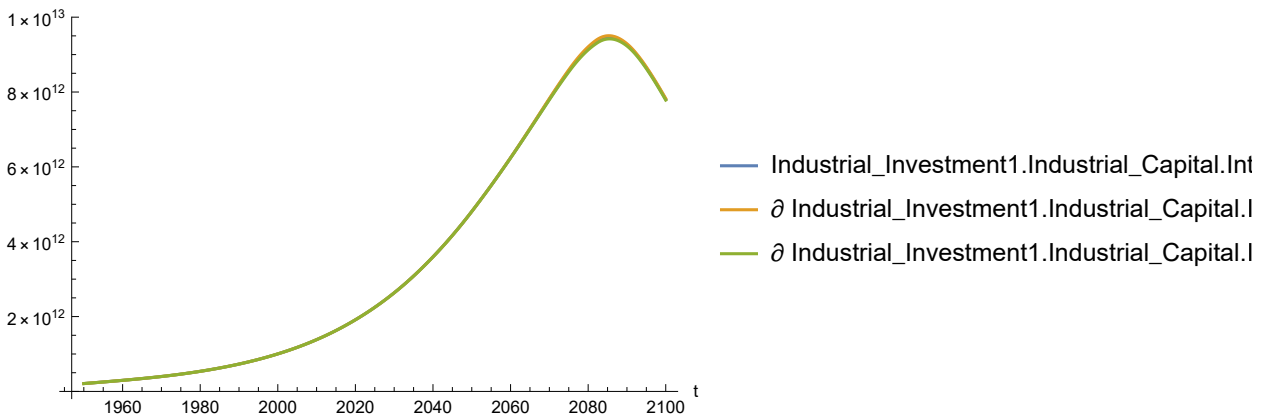
Out[181]=



In[182]:=

```
SystemModelPlot[simsensdata, {"Industrial_Investment1.Industrial_Capital.Integrator1.y",
"Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[3]", percentvar}]
```

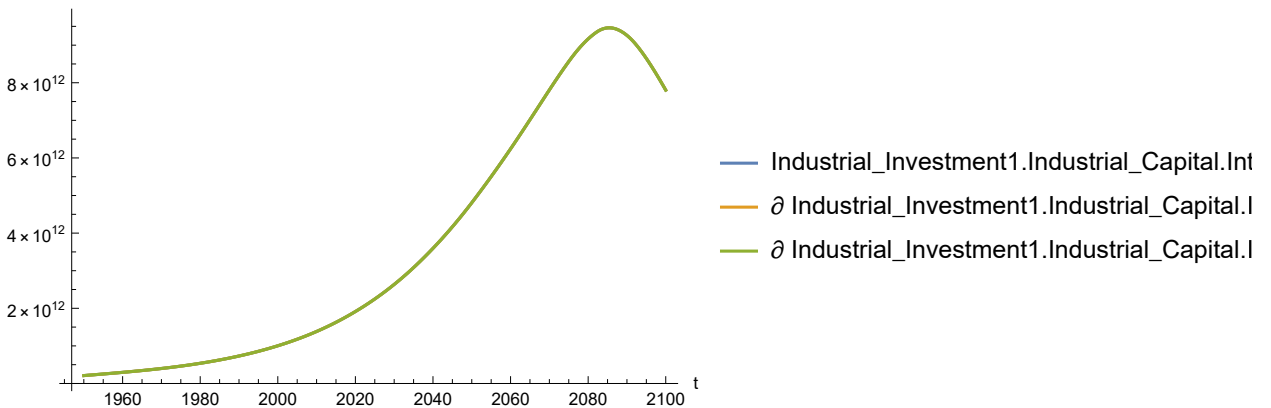
Out[182]=



In[183]:=

```
SystemModelPlot[simsensdata, {"Industrial_Investment1.Industrial_Capital.Integrator1.y",
"Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[4]", percentvar}]
```

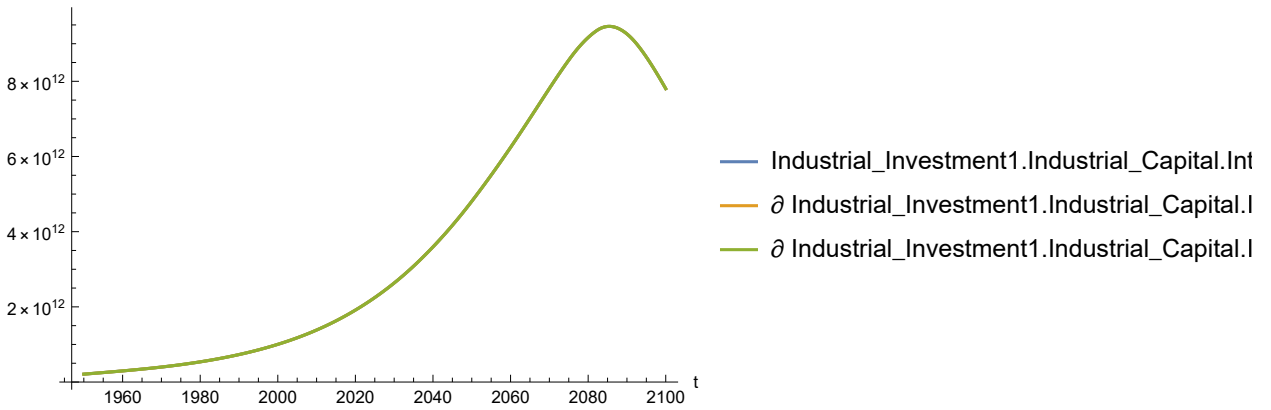
Out[183]=



In[184]:=

```
SystemModelPlot[simsensdata, {"Industrial_Investment1.Industrial_Capital.Integrator1.y",
"Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[5]", percentvar}]
```

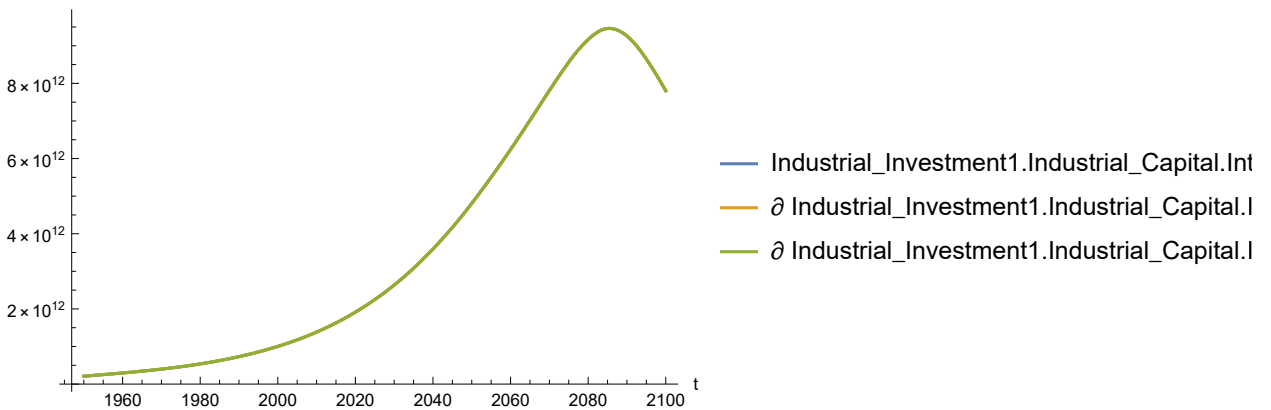
Out[184]=



In[185]:=

```
SystemModelPlot[simsensdata, {"Industrial_Investment1.Industrial_Capital.Integrator1.y",
"Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[6]", percentvar}]
```

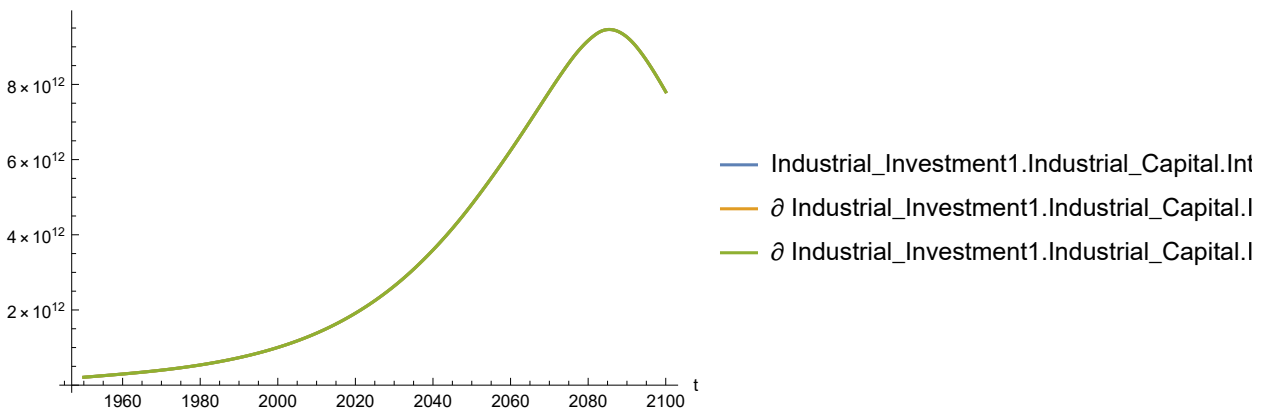
Out[185]=



In[186]:=

```
SystemModelPlot[simsensdata, {"Industrial_Investment1.Industrial_Capital.Integrator1.y",
"Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[7]", percentvar}]
```

Out[186]=

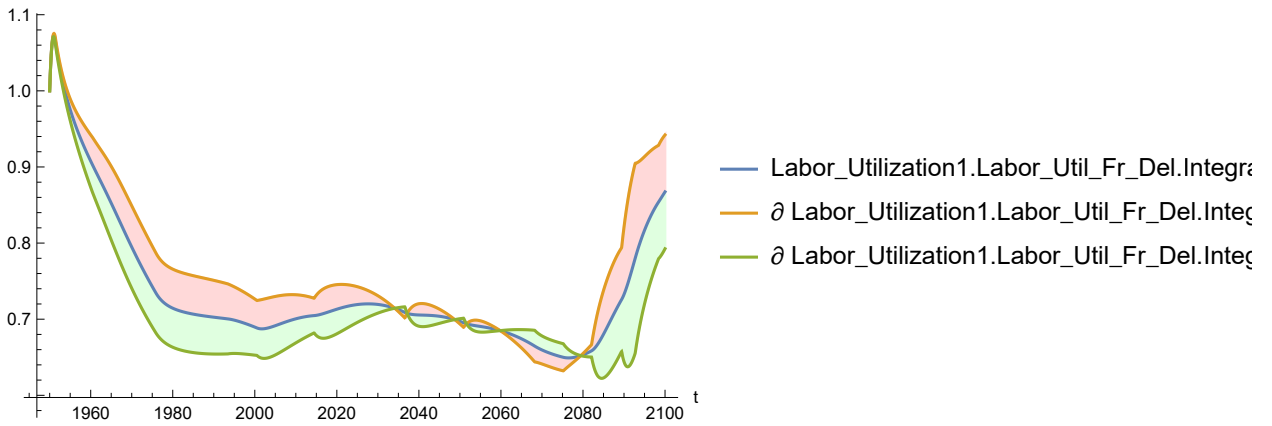


Plot the sensitivity of Labor_Utilization1.Labor_Util_Fr_Del.Integrator1.y to Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals.

In[187]:=

```
SystemModelPlot[simsensdata, {"Labor_Utilization1.Labor_Util_Fr_Del.Integrator1.y",
    "Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[1]", percentvar}]
```

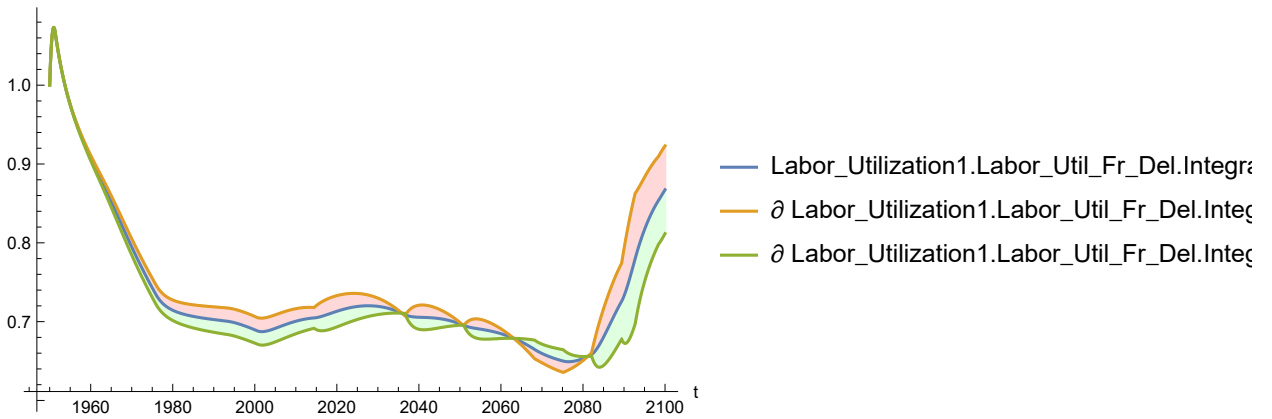
Out[187]=



In[188]:=

```
SystemModelPlot[simsensdata, {"Labor_Utilization1.Labor_Util_Fr_Del.Integrator1.y",
    "Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[2]", percentvar}]
```

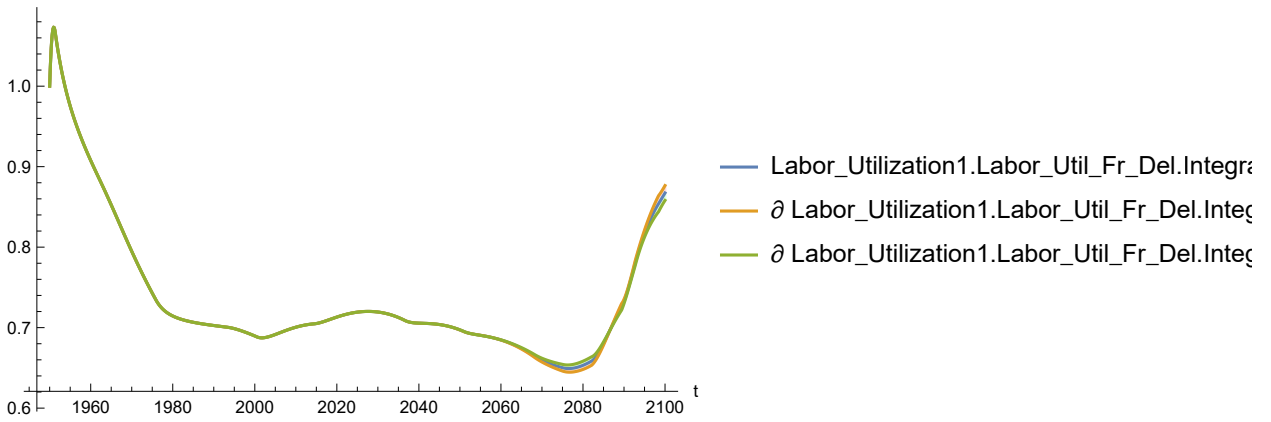
Out[188]=



In[189]:=

```
SystemModelPlot[simsensdata, {"Labor_Utilization1.Labor_Util_Fr_Del.Integrator1.y",
"Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[3]", percentvar}]
```

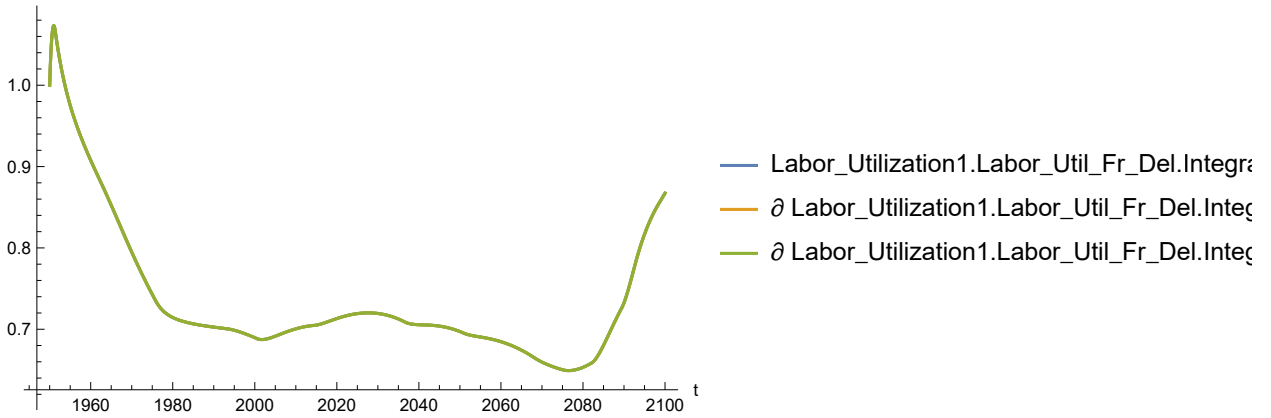
Out[189]=



In[190]:=

```
SystemModelPlot[simsensdata, {"Labor_Utilization1.Labor_Util_Fr_Del.Integrator1.y",
"Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[4]", percentvar}]
```

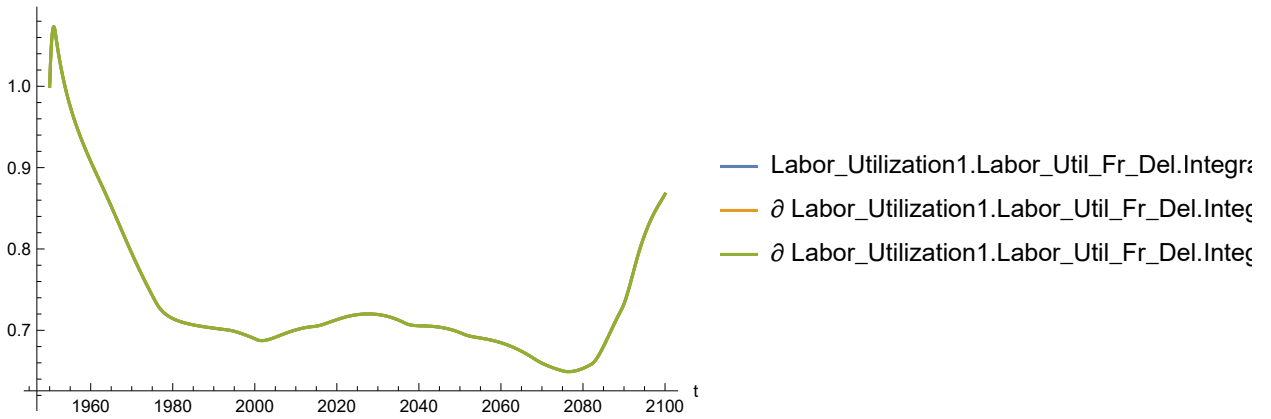
Out[190]=



In[191]:=

```
SystemModelPlot[simsensdata, {"Labor_Utilization1.Labor_Util_Fr_Del.Integrator1.y",
"Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[5]", percentvar}]
```

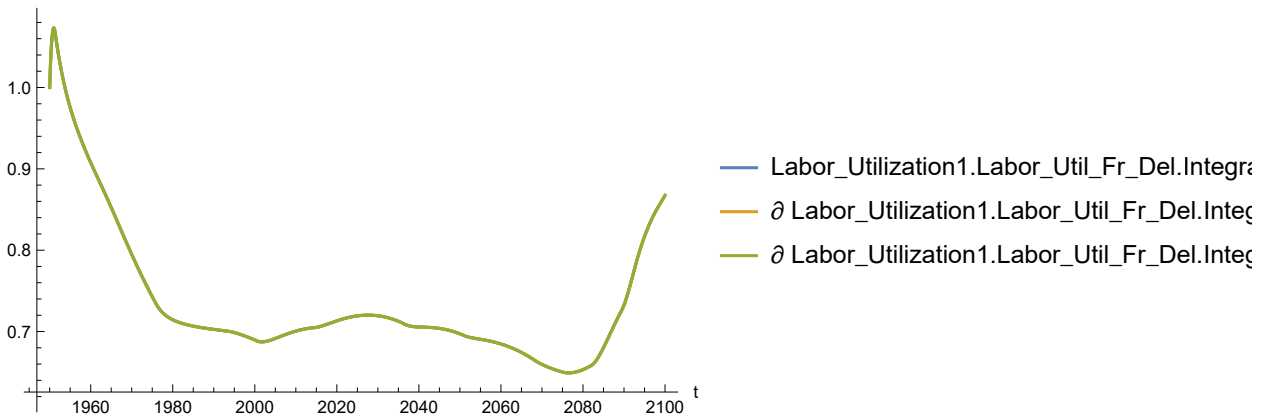
Out[191]=



In[192]:=

```
SystemModelPlot[simsensdata, {"Labor_Utilization1.Labor_Util_Fr_Del.Integrator1.y",
"Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[6]", percentvar}]
```

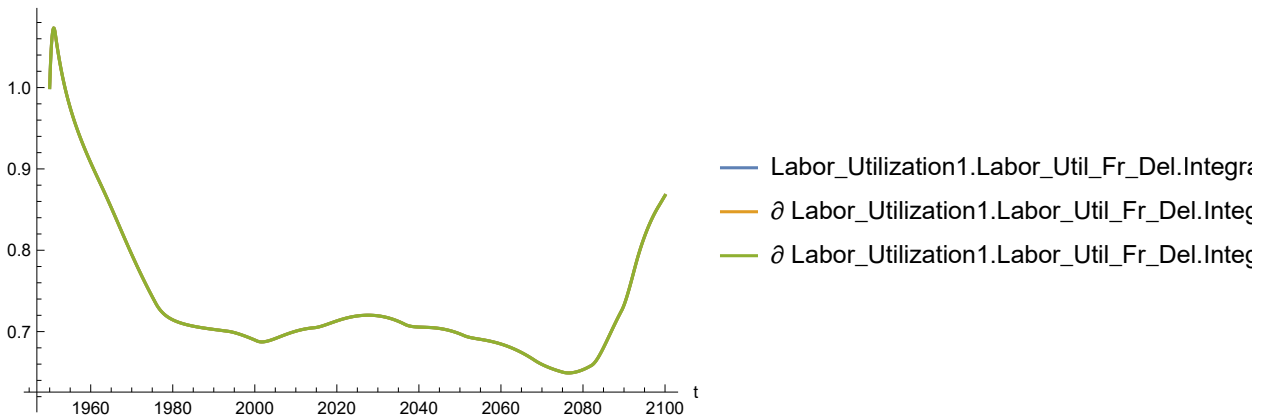
Out[192]=



In[193]:=

```
SystemModelPlot[simsensdata, {"Labor_Utilization1.Labor_Util_Fr_Del.Integrator1.y",
"Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[7]", percentvar}]
```

Out[193]=

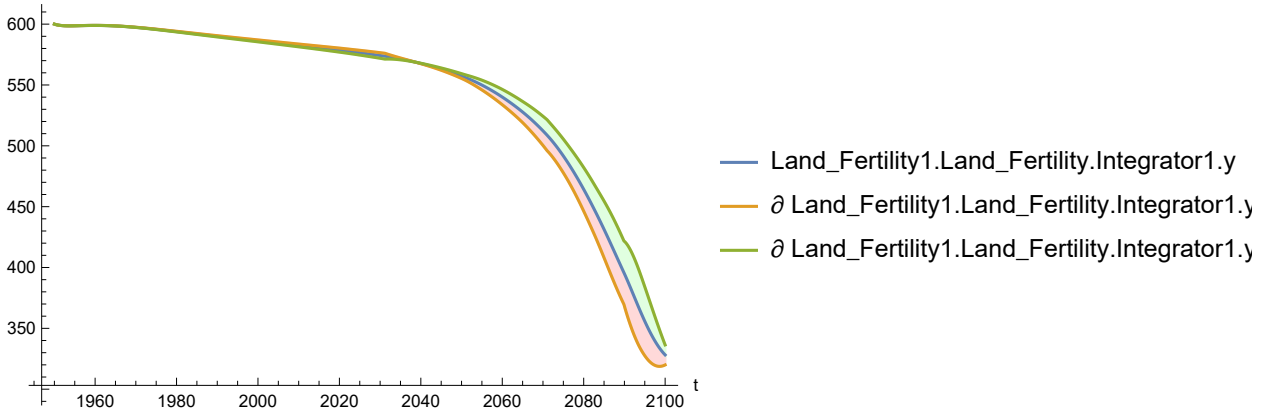


Plot the sensitivity of Land_Fertility1.Land_Fertility.Integrator1.y to Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals.

In[194]:=

```
SystemModelPlot[simsensdata, {"Land_Fertility1.Land_Fertility.Integrator1.y",
    "Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[1]", percentvar}]
```

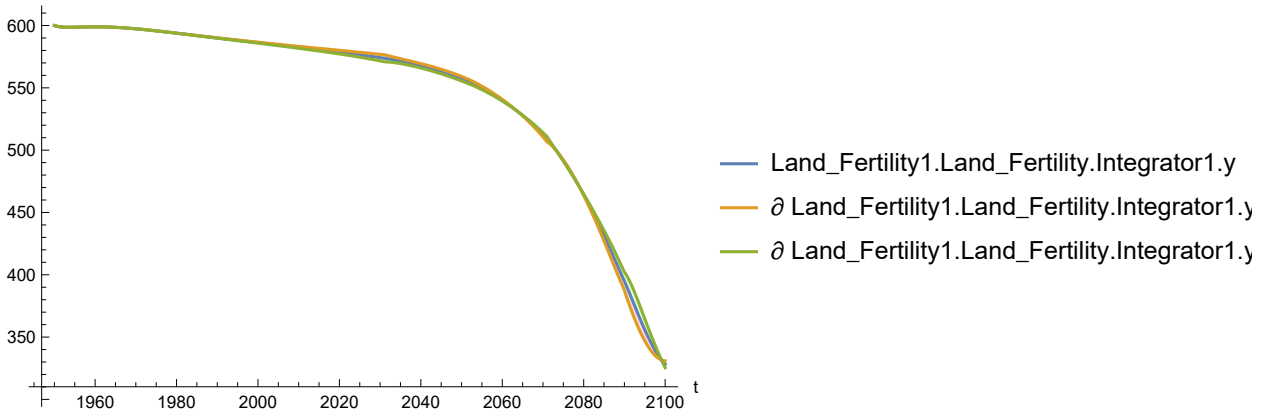
Out[194]=



In[195]:=

```
SystemModelPlot[simsensdata, {"Land_Fertility1.Land_Fertility.Integrator1.y",
    "Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[2]", percentvar}]
```

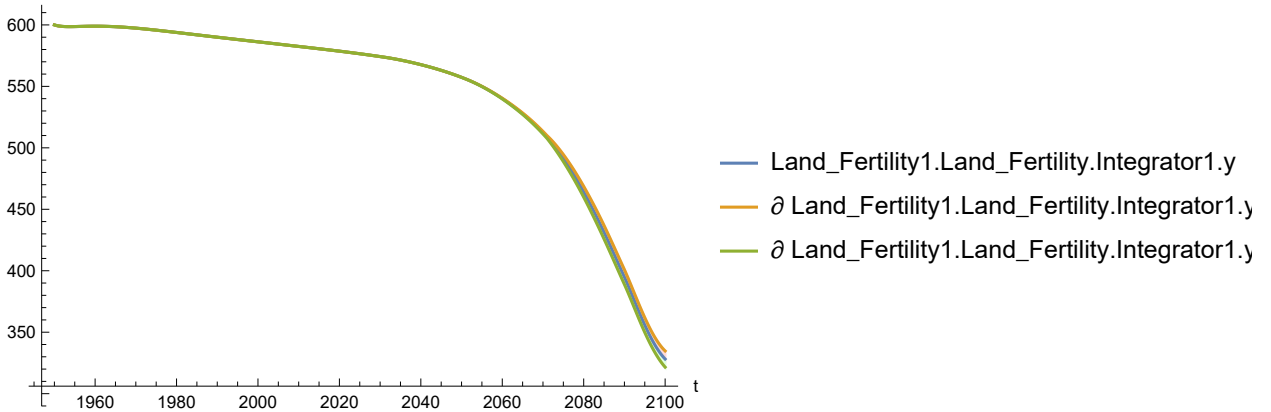
Out[195]=



In[196]:=

```
SystemModelPlot[simsensdata, {"Land_Fertility1.Land_Fertility.Integrator1.y",
    "Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[3]", percentvar}]
```

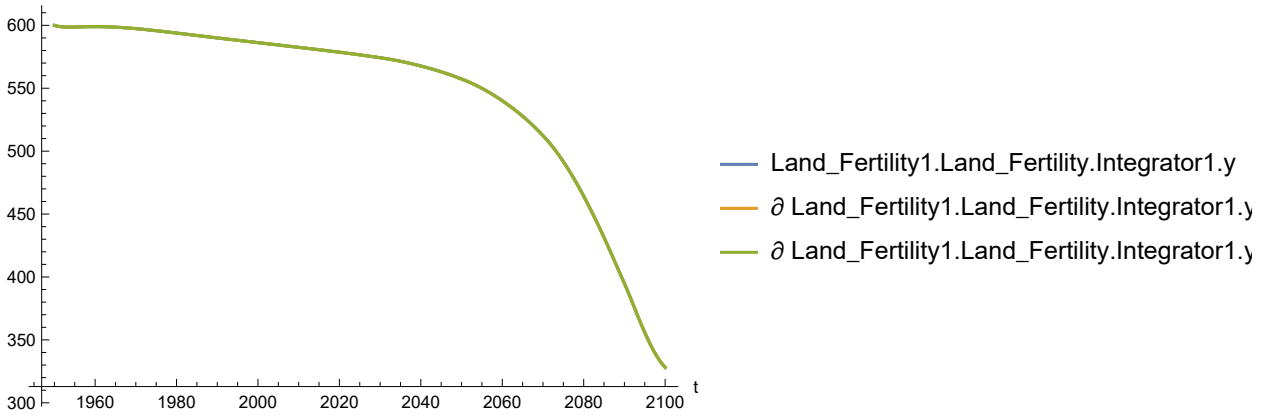
Out[196]=



In[197]:=

```
SystemModelPlot[simsensdata, {"Land_Fertility1.Land_Fertility.Integrator1.y",
    "Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[4]", percentvar}]
```

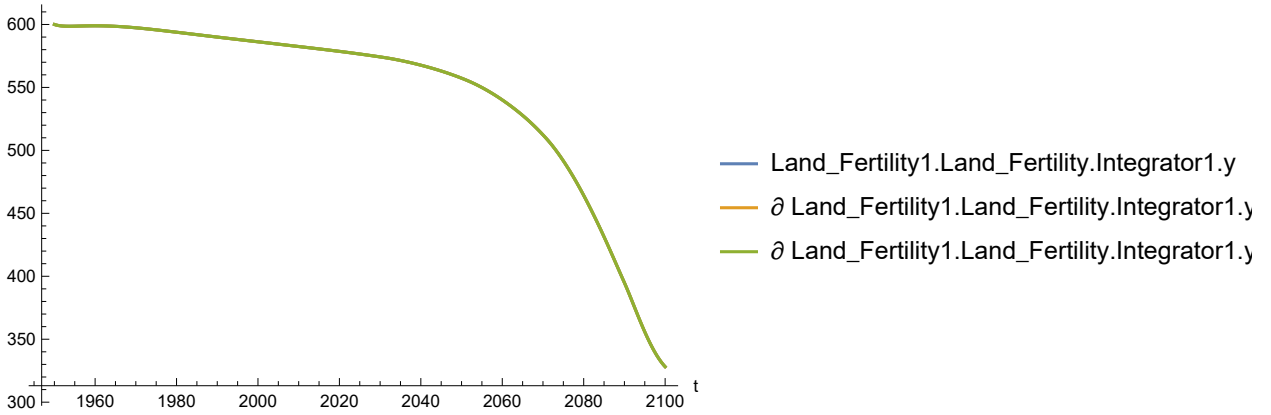
Out[197]=



In[198]:=

```
SystemModelPlot[simsensdata, {"Land_Fertility1.Land_Fertility.Integrator1.y",
    "Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[5]", percentvar}]
```

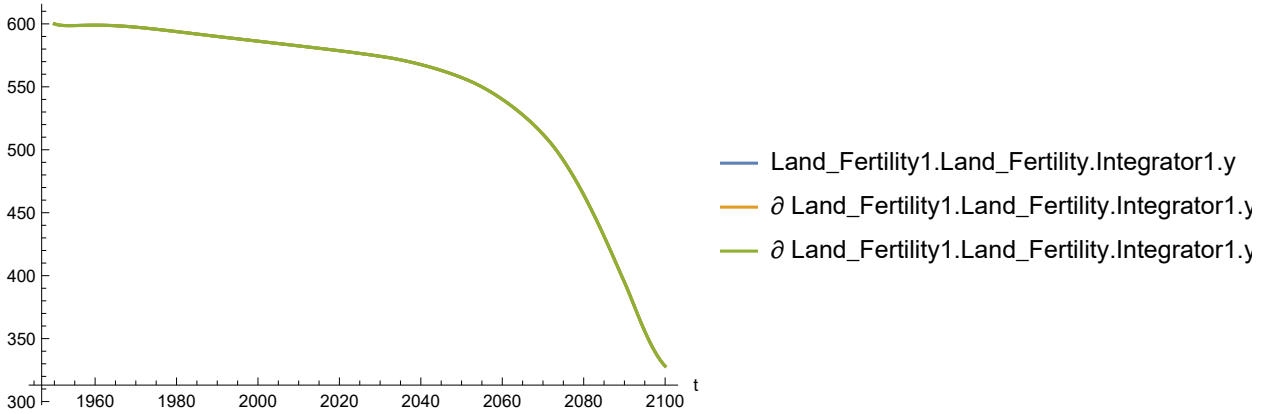
Out[198]=



In[199]:=

```
SystemModelPlot[simsensdata, {"Land_Fertility1.Land_Fertility.Integrator1.y",
    "Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[6]", percentvar}]
```

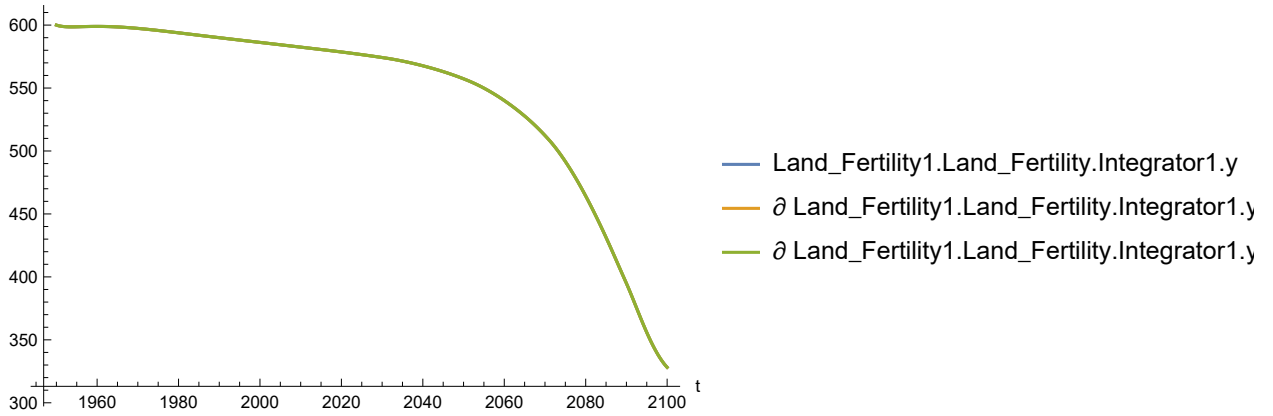
Out[199]=



In[200]:=

```
SystemModelPlot[simsensdata, {"Land_Fertility1.Land_Fertility.Integrator1.y",
    "Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[7]", percentvar}]
```

Out[200]=

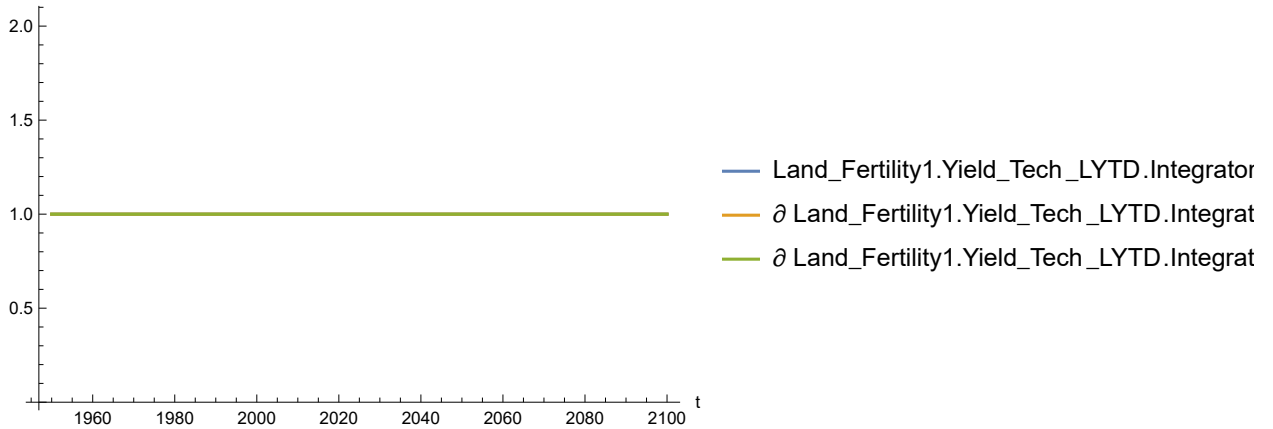


Plot the sensitivity of Land_Fertility1.Yield_Tech_LYTD.Integrator1.y to Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals.

In[201]:=

```
SystemModelPlot[simsensdata, {"Land_Fertility1.Yield_Tech_LYTD.Integrator1.y",
    "Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[1]", percentvar}]
```

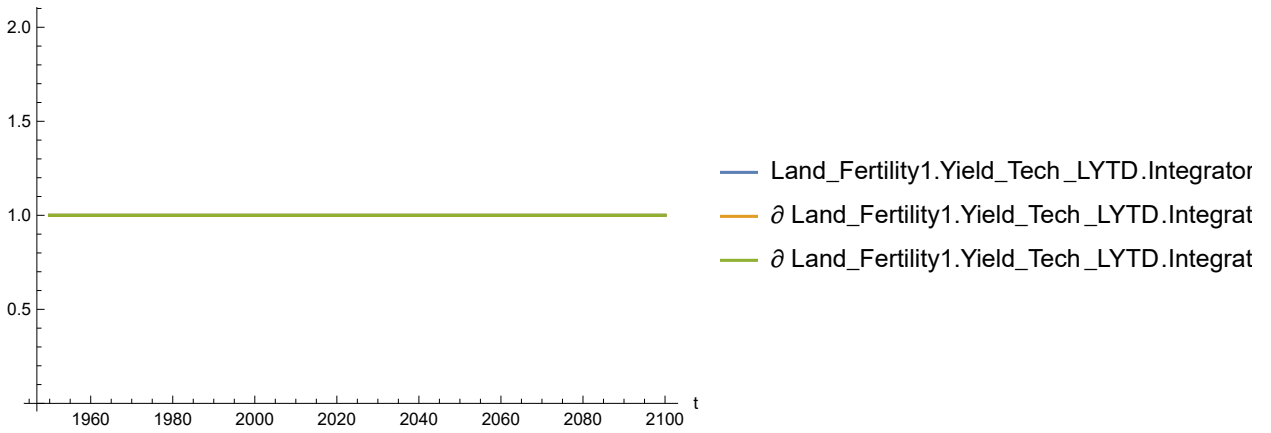
Out[201]=



In[202]:=

```
SystemModelPlot[simsensdata, {"Land_Fertility1.Yield_Tech_LYTD.Integrator1.y",
"Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[2]", percentvar}]
```

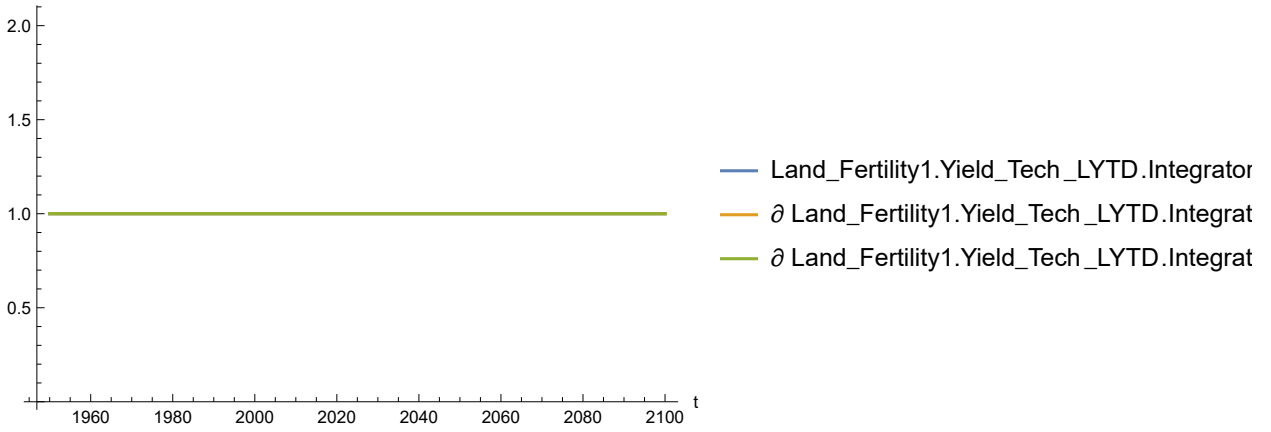
Out[202]=



In[203]:=

```
SystemModelPlot[simsensdata, {"Land_Fertility1.Yield_Tech_LYTD.Integrator1.y",
"Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[3]", percentvar}]
```

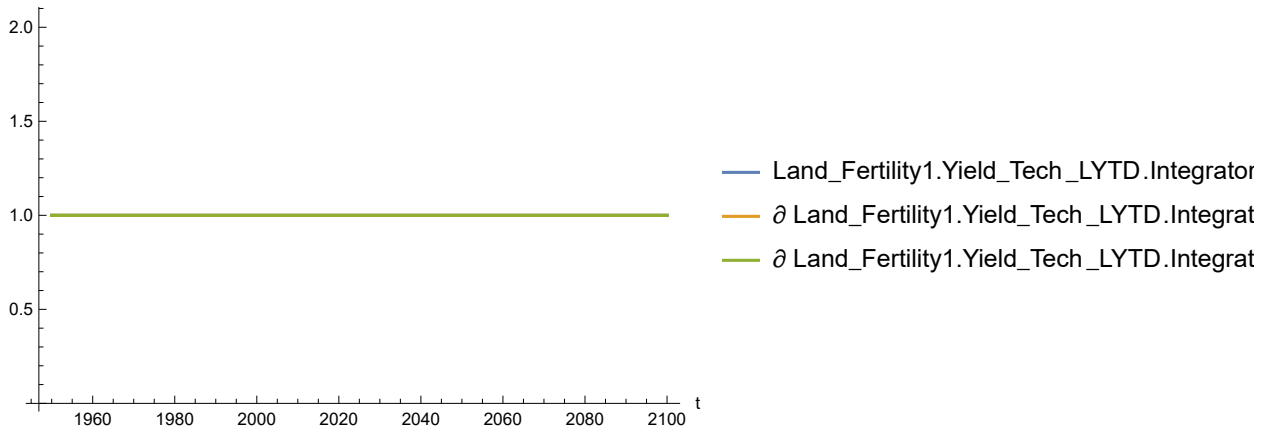
Out[203]=



In[204]:=

```
SystemModelPlot[simsensdata, {"Land_Fertility1.Yield_Tech_LYTD.Integrator1.y",
"Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[4]", percentvar}]
```

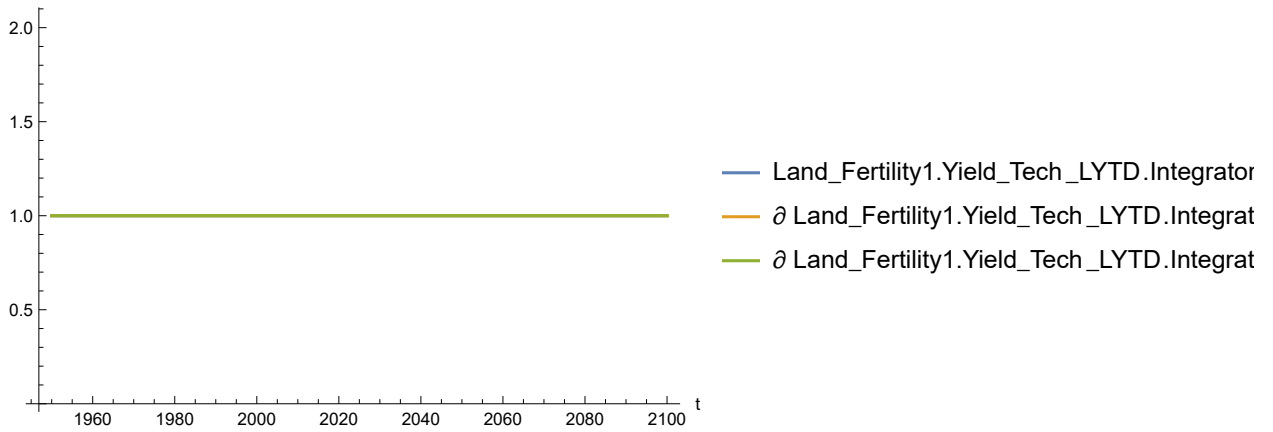
Out[204]=



In[205]:=

```
SystemModelPlot[simsensdata, {"Land_Fertility1.Yield_Tech_LYTD.Integrator1.y",
"Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[5]", percentvar}]
```

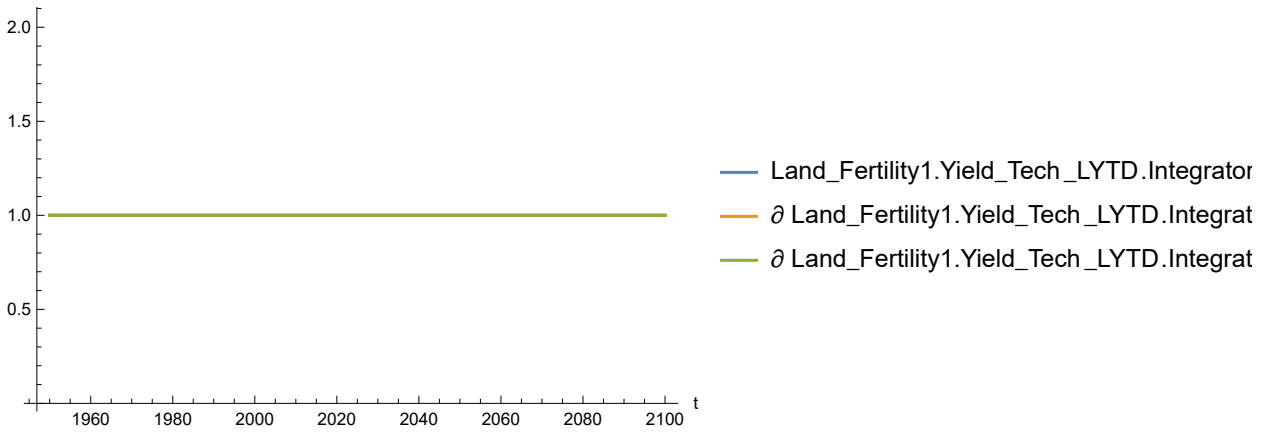
Out[205]=



In[206]:=

```
SystemModelPlot[simsensdata, {"Land_Fertility1.Yield_Tech_LYTD.Integrator1.y",
"Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[6]", percentvar}]
```

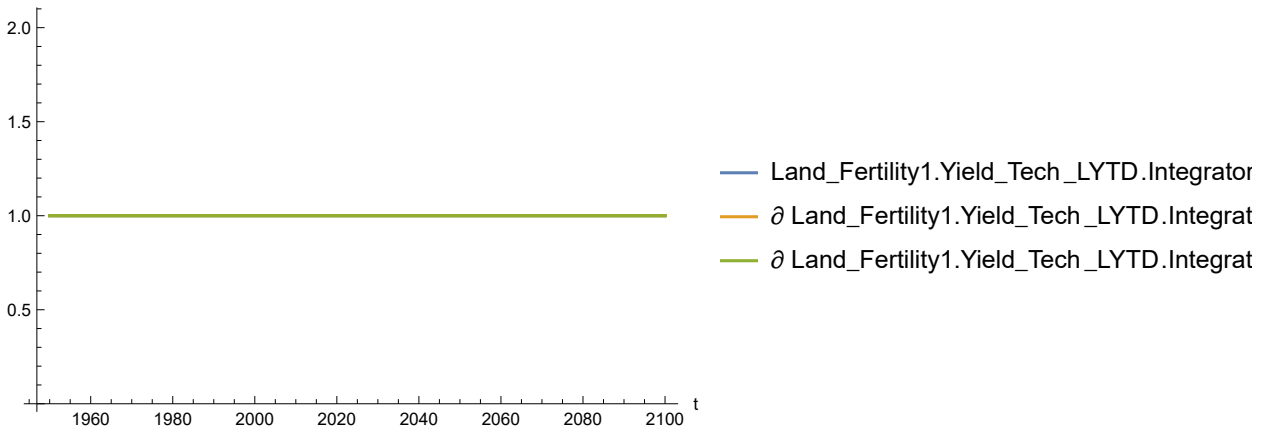
Out[206]=



In[207]:=

```
SystemModelPlot[simsensdata, {"Land_Fertility1.Yield_Tech_LYTD.Integrator1.y",
"Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[7]", percentvar}]
```

Out[207]=

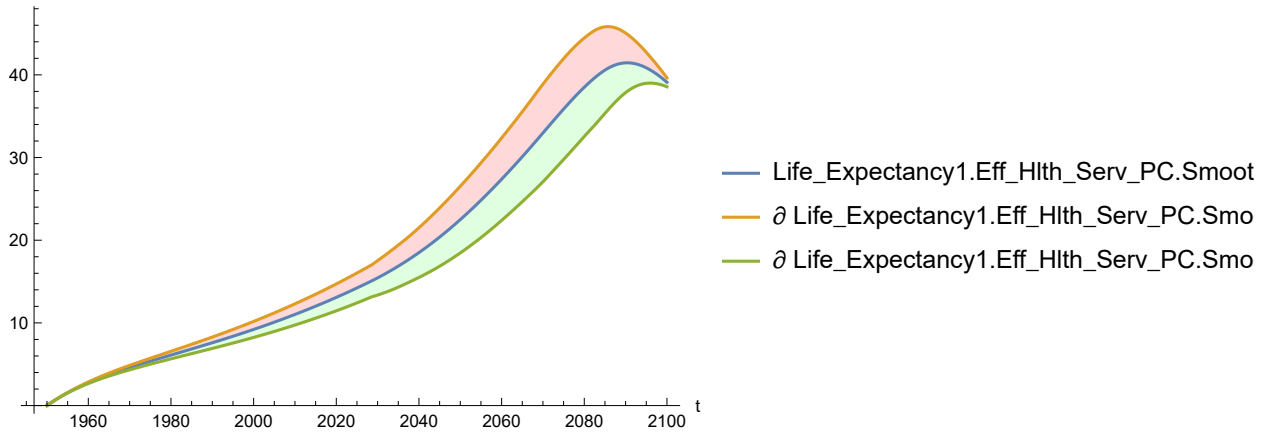


Plot the sensitivity of Life_Expectancy1.Eff_Hlth_Serv_PC.Smooth_of_Input.Integrator1.y to Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals.

In[208]:=

```
SystemModelPlot[simsensdata,
  {"Life_Expectancy1.Eff_Hlth_Serv_PC.Smooth_of_Input.Integrator1.y",
   "Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[1]", percentvar}]
```

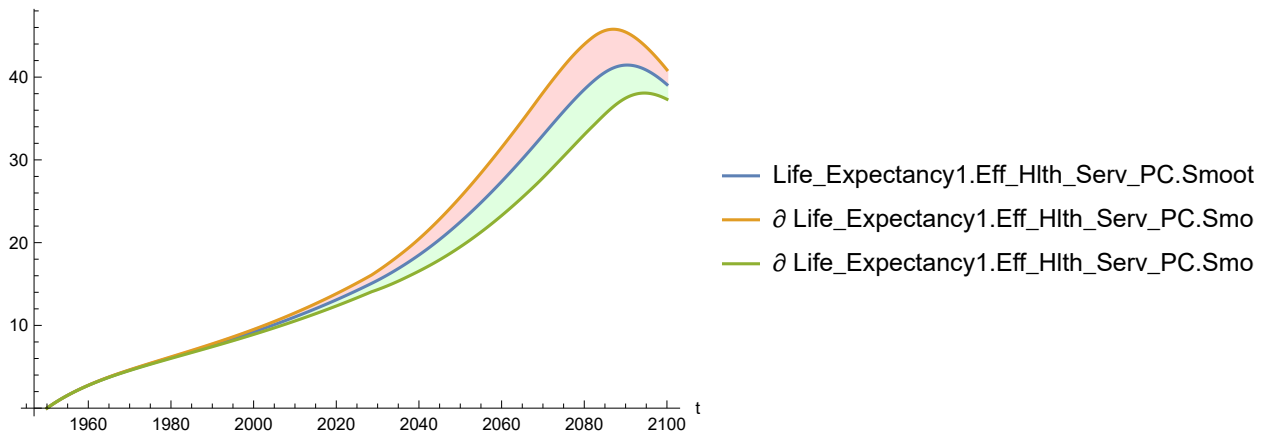
Out[208]=



In[209]:=

```
SystemModelPlot[simsensdata,
  {"Life_Expectancy1.Eff_Hlth_Serv_PC.Smooth_of_Input.Integrator1.y",
   "Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[2]", percentvar}]
```

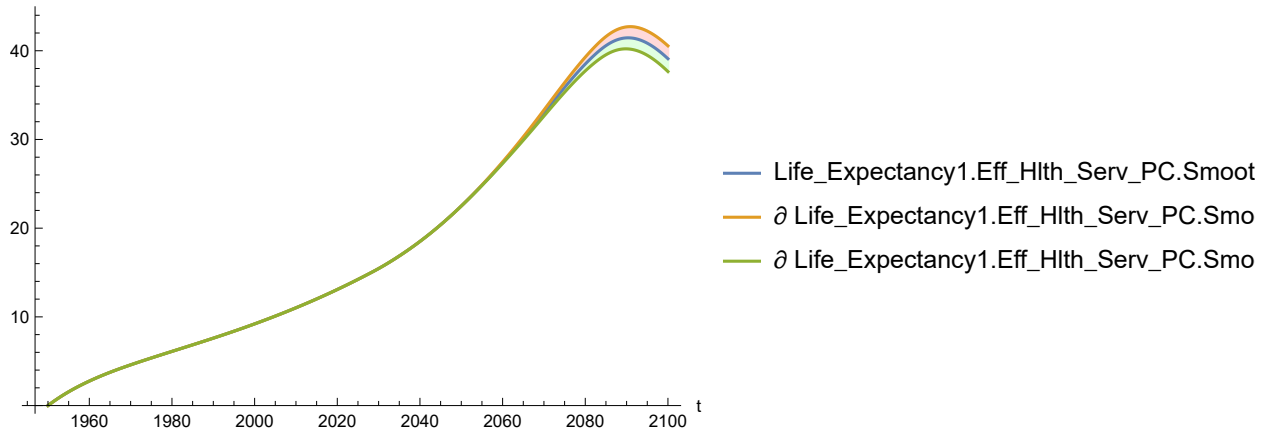
Out[209]=



In[210]:=

```
SystemModelPlot[simsensdata,
  {"Life_Expectancy1.Eff_Hlth_Serv_PC.Smooth_of_Input.Integrator1.y",
   "Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[3]", percentvar}]
```

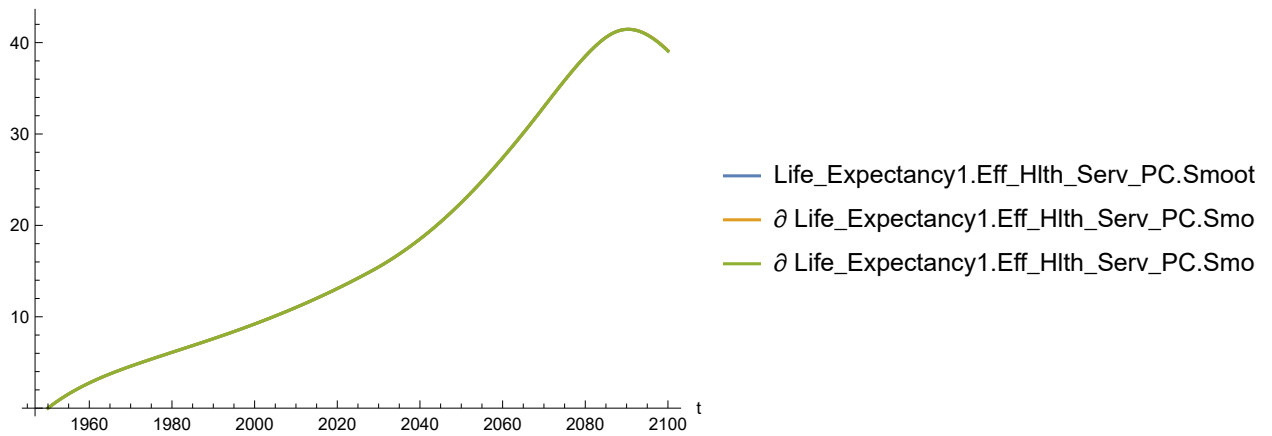
Out[210]=



In[211]:=

```
SystemModelPlot[simsensdata,
  {"Life_Expectancy1.Eff_Hlth_Serv_PC.Smooth_of_Input.Integrator1.y",
   "Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[4]", percentvar}]
```

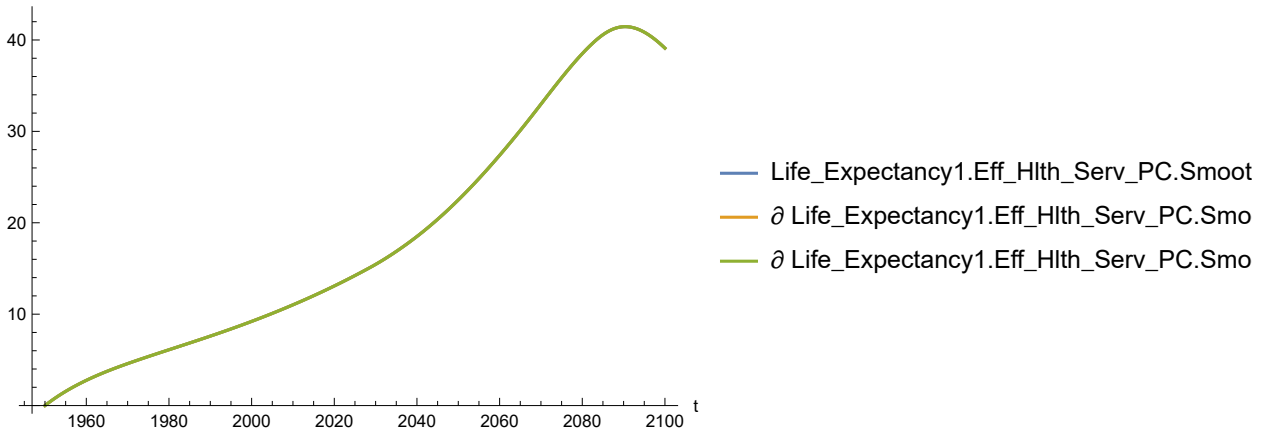
Out[211]=



In[212]:=

```
SystemModelPlot[simsensdata,
  {"Life_Expectancy1.Eff_Hlth_Serv_PC.Smooth_of_Input.Integrator1.y",
   "Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[5]", percentvar}]
```

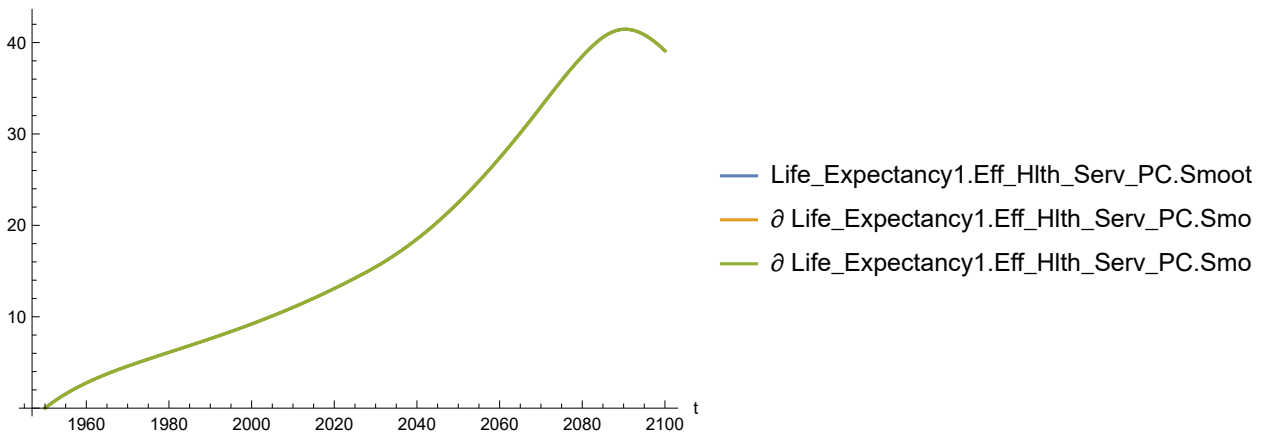
Out[212]=



In[213]:=

```
SystemModelPlot[simsensdata,
  {"Life_Expectancy1.Eff_Hlth_Serv_PC.Smooth_of_Input.Integrator1.y",
   "Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[6]", percentvar}]
```

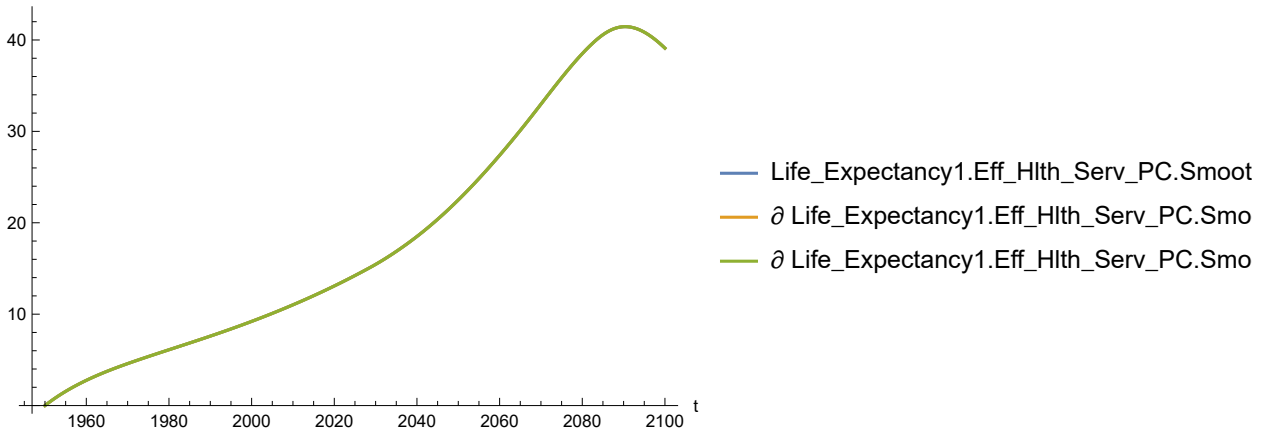
Out[213]=



In[214]:=

```
SystemModelPlot[simsensdata,
  {"Life_Expectancy1.Eff_Hlth_Serv_PC.Smooth_of_Input.Integrator1.y",
   "Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[7]", percentvar}]
```

Out[214]:=

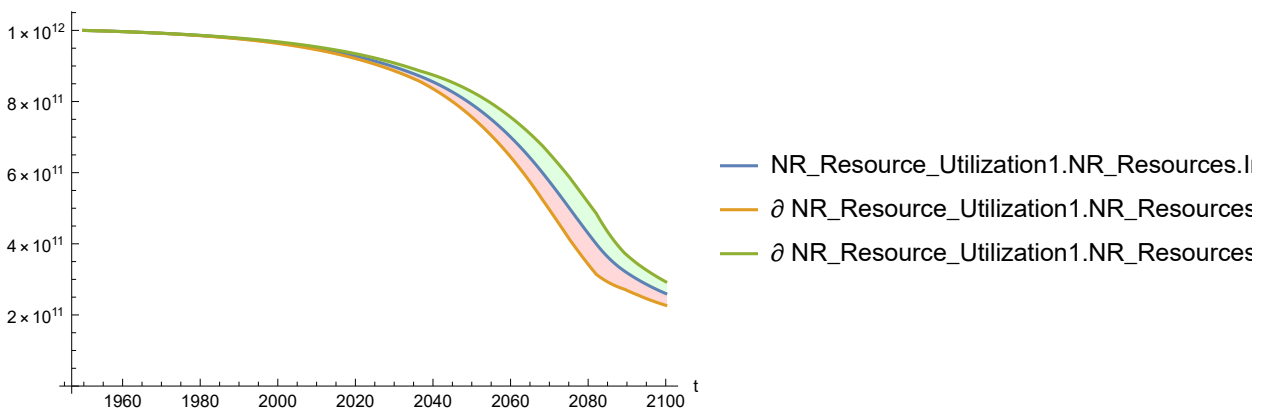


Plot the sensitivity of NR_Resource_Utilization1.NR_Resources.Integrator1.y to Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals.

In[215]:=

```
SystemModelPlot[simsensdata, {"NR_Resource_Utilization1.NR_Resources.Integrator1.y",
  "Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[1]", percentvar}]
```

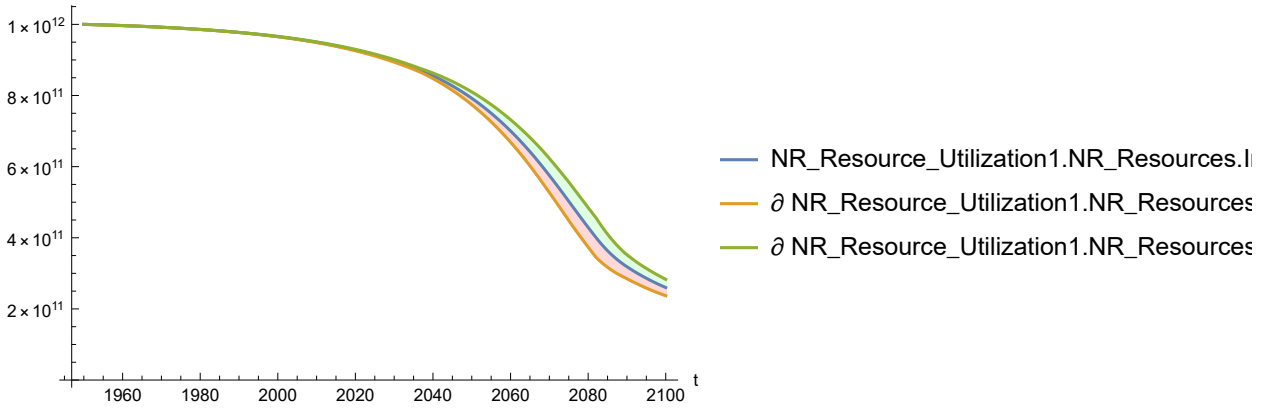
Out[215]:=



In[216]:=

```
SystemModelPlot[simsensdata, {"NR_Resource_Utilization1.NR_Resources.Integrator1.y",
"Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[2]", percentvar}]
```

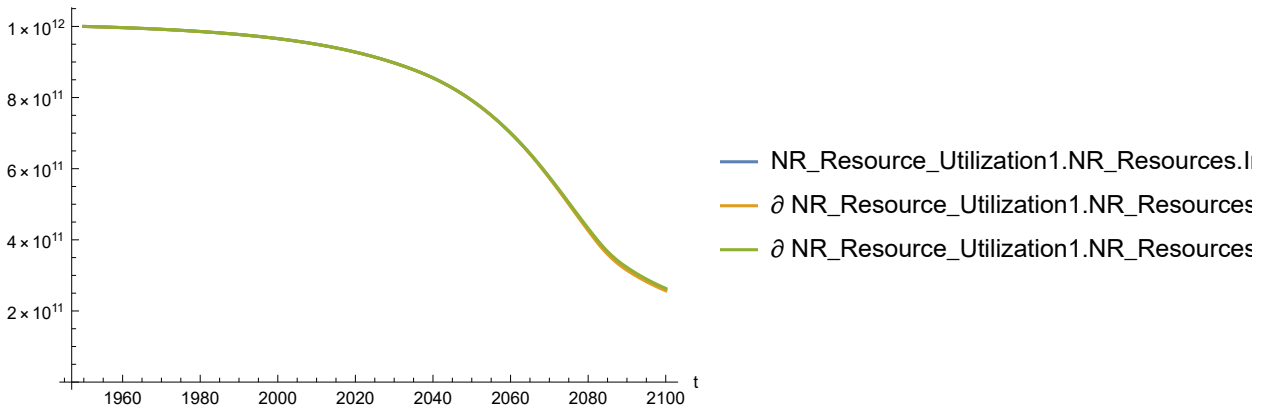
Out[216]=



In[217]:=

```
SystemModelPlot[simsensdata, {"NR_Resource_Utilization1.NR_Resources.Integrator1.y",
"Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[3]", percentvar}]
```

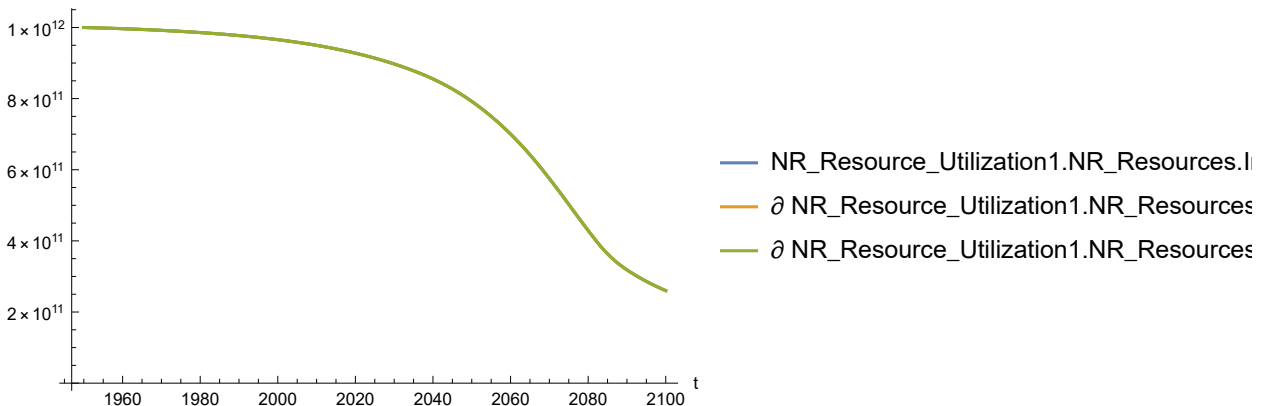
Out[217]=



In[218]:=

```
SystemModelPlot[simsensdata, {"NR_Resource_Utilization1.NR_Resources.Integrator1.y",
"Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[4]", percentvar}]
```

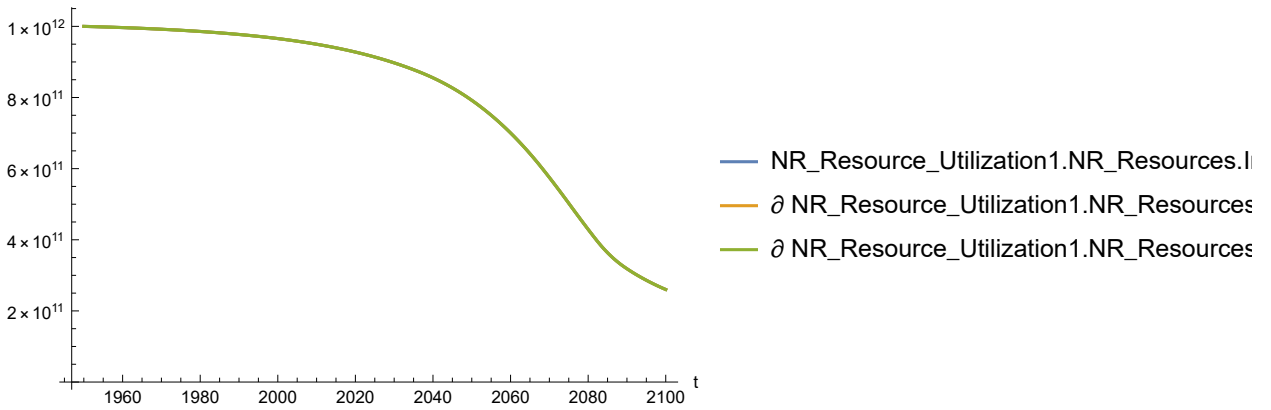
Out[218]=



In[219]:=

```
SystemModelPlot[simsensdata, {"NR_Resource_Utilization1.NR_Resources.Integrator1.y",
"Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[5]", percentvar}]
```

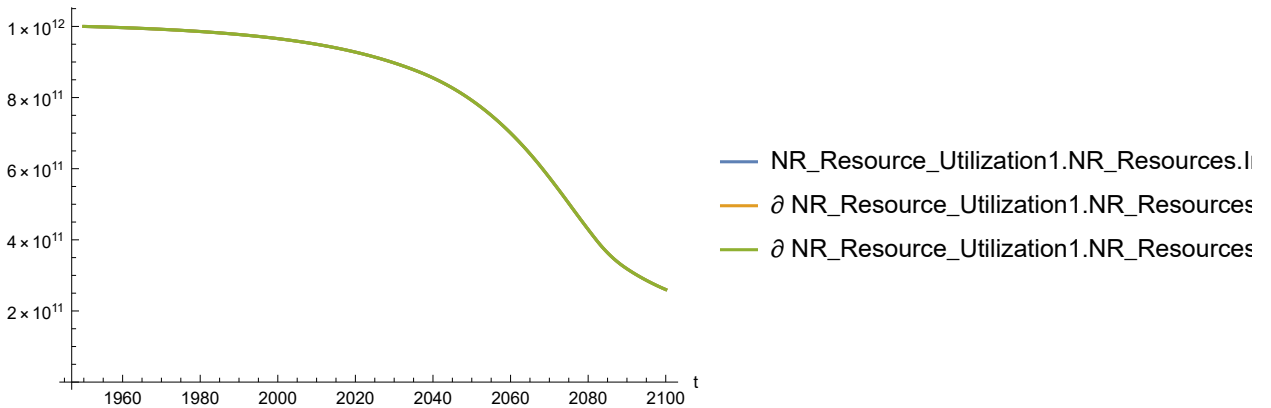
Out[219]=



In[220]:=

```
SystemModelPlot[simsensdata, {"NR_Resource_Utilization1.NR_Resources.Integrator1.y",
"Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[6]", percentvar}]
```

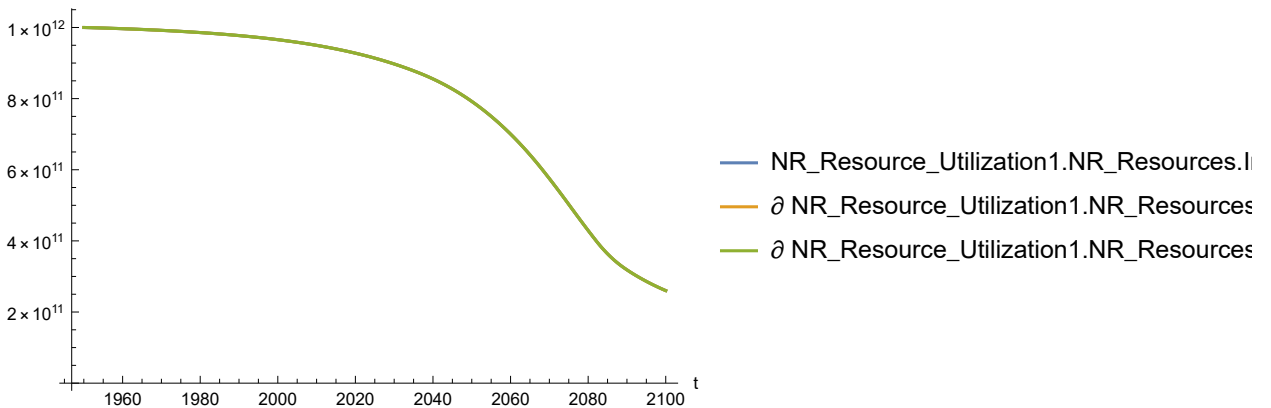
Out[220]=



In[221]:=

```
SystemModelPlot[simsensdata, {"NR_Resource_Utilization1.NR_Resources.Integrator1.y",
"Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[7]", percentvar}]
```

Out[221]=

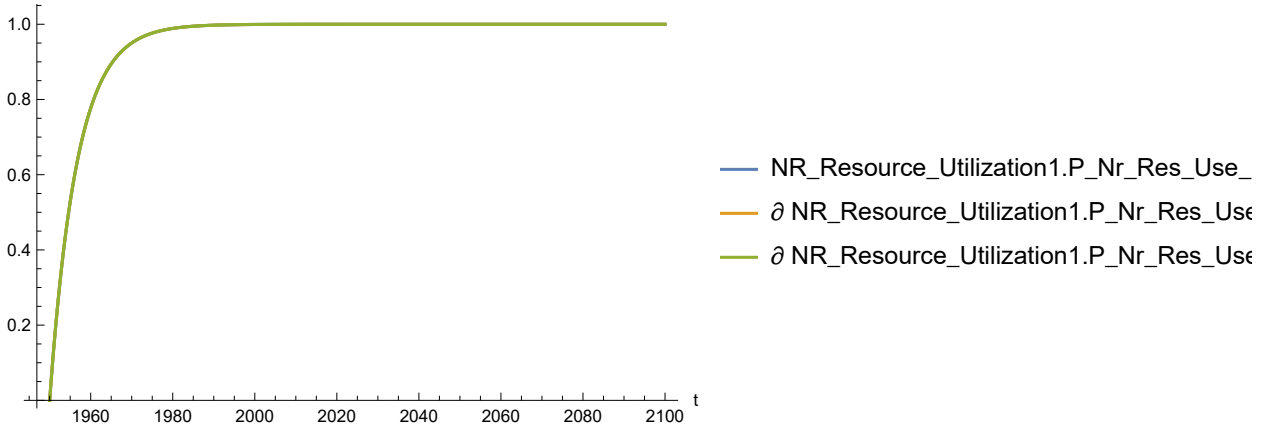


Plot the sensitivity of NR_Resource_Utilization1.P_Nr_Res_Use_Fact_2.Smooth1.Integrator1.y to Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals.

In[222]:=

```
SystemModelPlot[simsensdata,
  {"NR_Resource_Utilization1.P_Nr_Res_Use_Fact_2.Smooth1.Integrator1.y",
   "Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[1]", percentvar}]
```

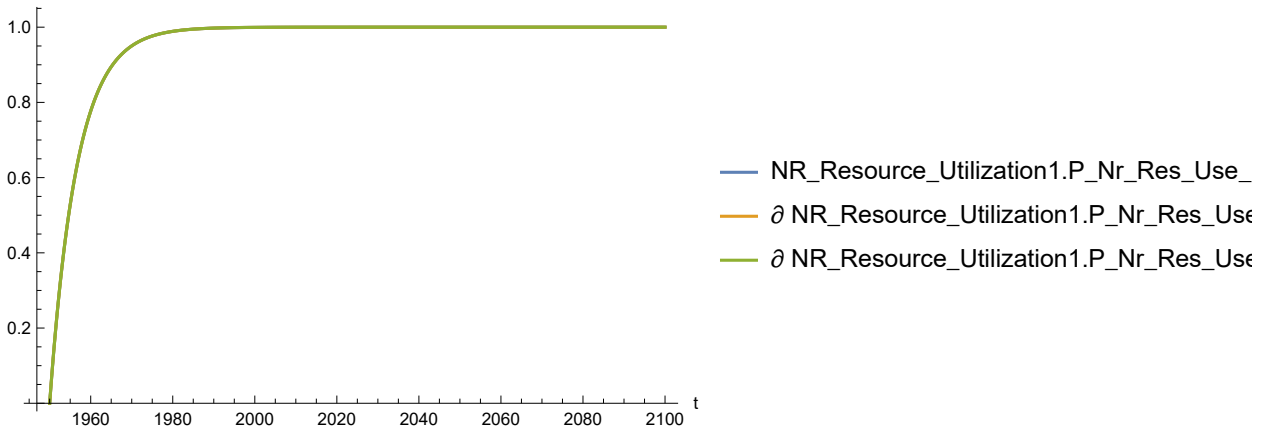
Out[222]=



In[223]:=

```
SystemModelPlot[simsensdata,
  {"NR_Resource_Utilization1.P_Nr_Res_Use_Fact_2.Smooth1.Integrator1.y",
   "Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[2]", percentvar}]
```

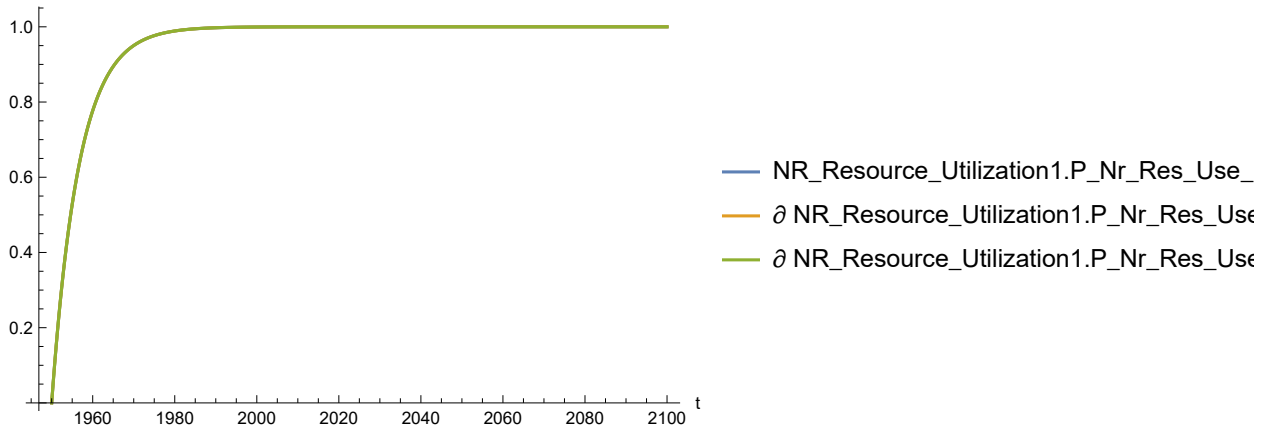
Out[223]=



In[224]:=

```
SystemModelPlot[simsensdata,
  {"NR_Resource_Utilization1.P_Nr_Res_Use_Fact_2.Smooth1.Integrator1.y",
   "Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[3]", percentvar}]
```

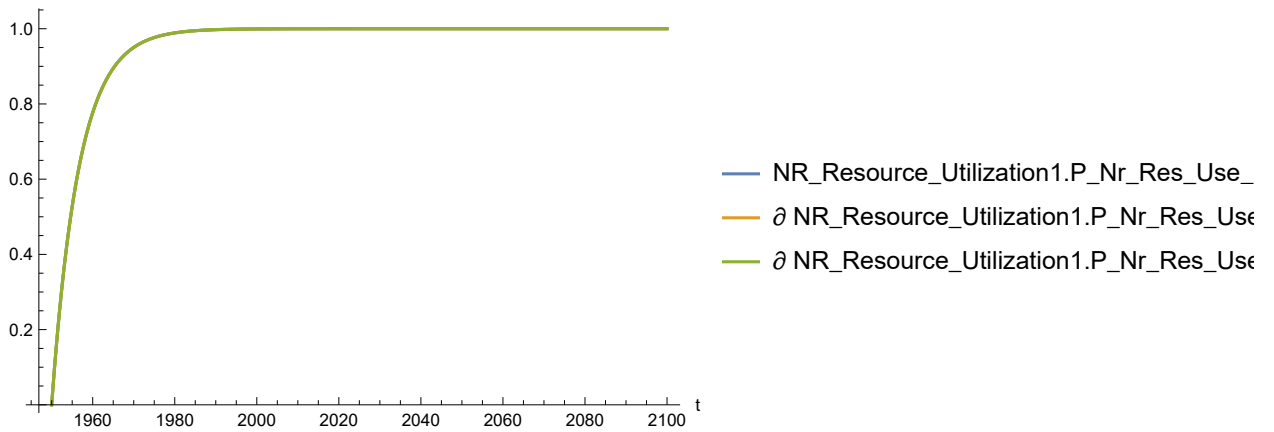
Out[224]=



In[225]:=

```
SystemModelPlot[simsensdata,
  {"NR_Resource_Utilization1.P_Nr_Res_Use_Fact_2.Smooth1.Integrator1.y",
   "Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[4]", percentvar}]
```

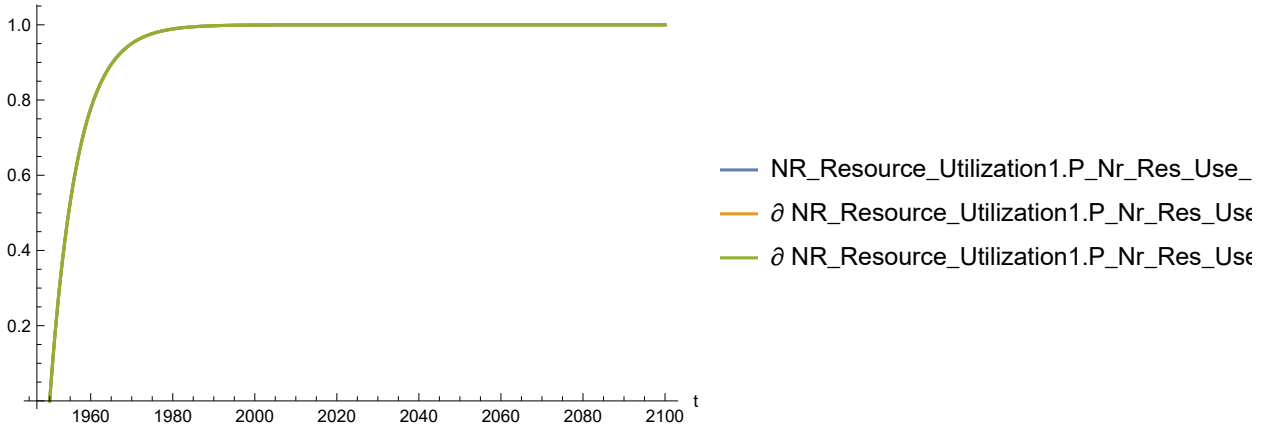
Out[225]=



In[226]:=

```
SystemModelPlot[simsensdata,
  {"NR_Resource_Utilization1.P_Nr_Res_Use_Fact_2.Smooth1.Integrator1.y",
   "Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[5]", percentvar}]
```

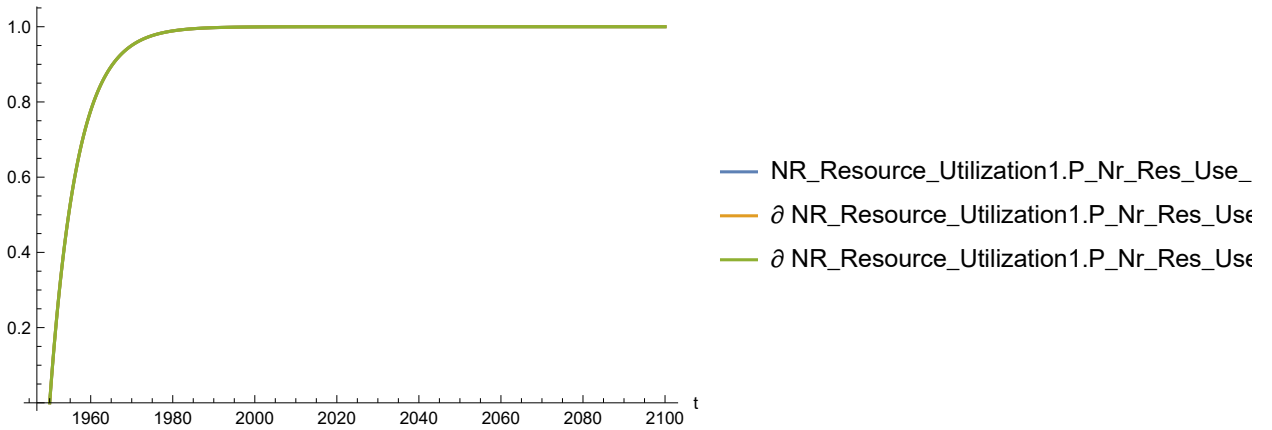
Out[226]=



In[227]:=

```
SystemModelPlot[simsensdata,
  {"NR_Resource_Utilization1.P_Nr_Res_Use_Fact_2.Smooth1.Integrator1.y",
   "Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[6]", percentvar}]
```

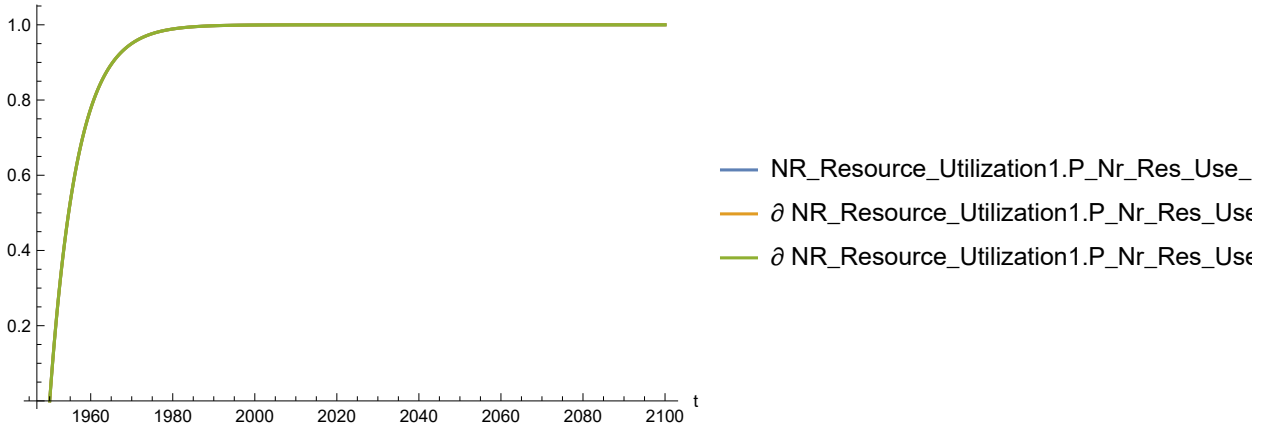
Out[227]=



In[228]:=

```
SystemModelPlot[simsensdata,
  {"NR_Resource_Utilization1.P_Nr_Res_Use_Fact_2.Smooth1.Integrator1.y",
   "Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[7]", percentvar}]
```

Out[228]=

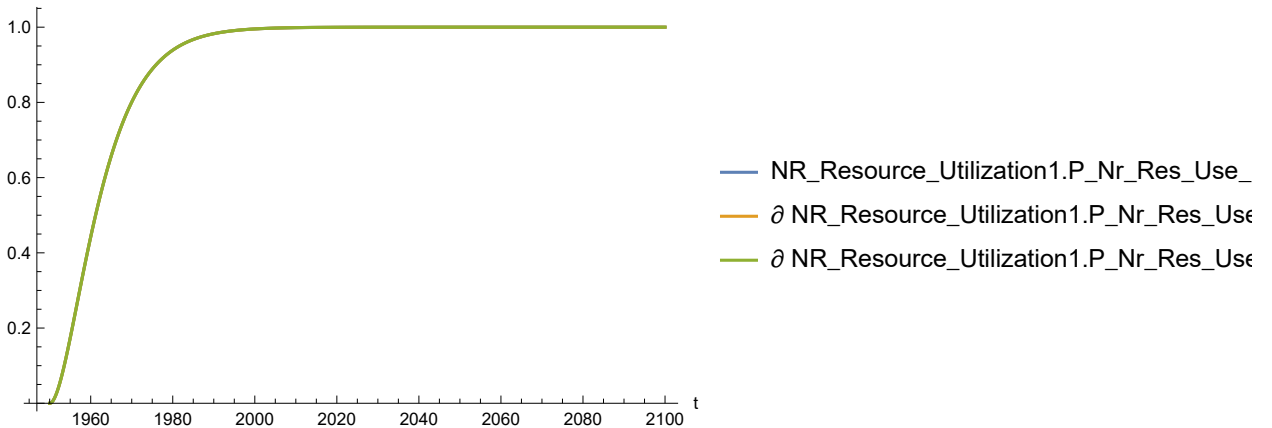


Plot the sensitivity of NR_Resource_Utilization1.P_Nr_Res_Use_Fact_2.Smooth2.Integrator1.y to Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals.

In[229]:=

```
SystemModelPlot[simsensdata,
  {"NR_Resource_Utilization1.P_Nr_Res_Use_Fact_2.Smooth2.Integrator1.y",
   "Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[1]", percentvar}]
```

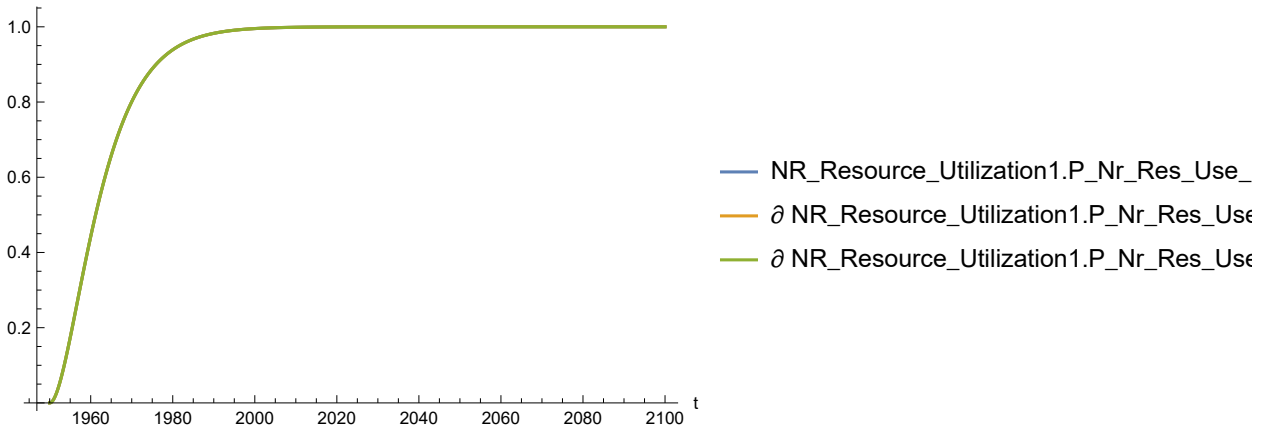
Out[229]=



In[230]:=

```
SystemModelPlot[simsensdata,
  {"NR_Resource_Utilization1.P_Nr_Res_Use_Fact_2.Smooth2.Integrator1.y",
   "Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[2]", percentvar}]
```

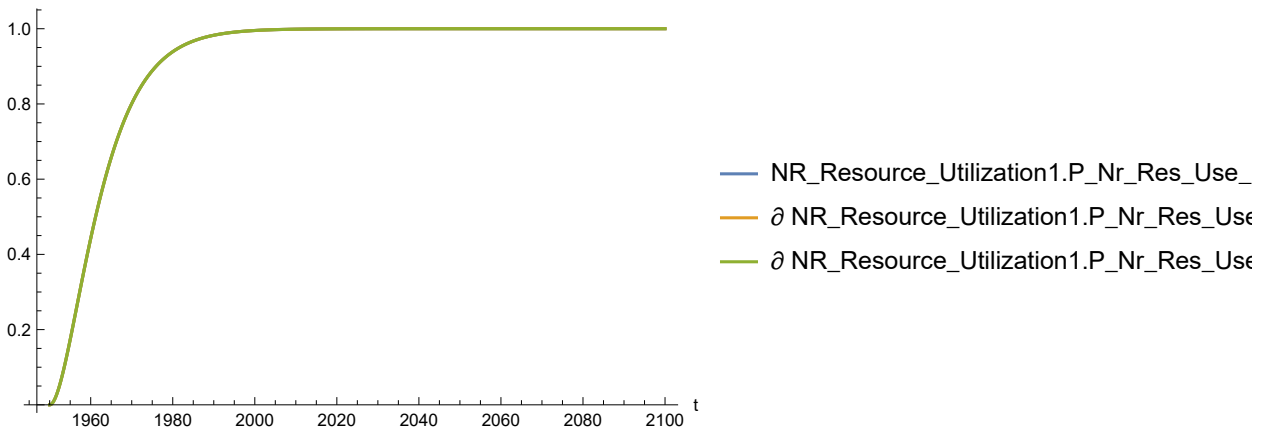
Out[230]=



In[231]:=

```
SystemModelPlot[simsensdata,
  {"NR_Resource_Utilization1.P_Nr_Res_Use_Fact_2.Smooth2.Integrator1.y",
   "Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[3]", percentvar}]
```

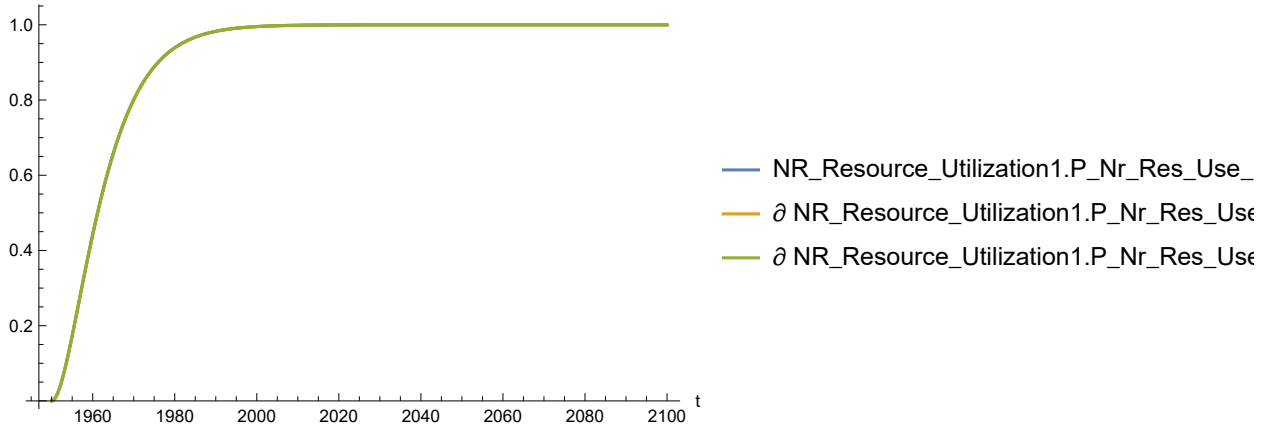
Out[231]=



In[232]:=

```
SystemModelPlot[simsensdata,
  {"NR_Resource_Utilization1.P_Nr_Res_Use_Fact_2.Smooth2.Integrator1.y",
   "Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[4]", percentvar}]
```

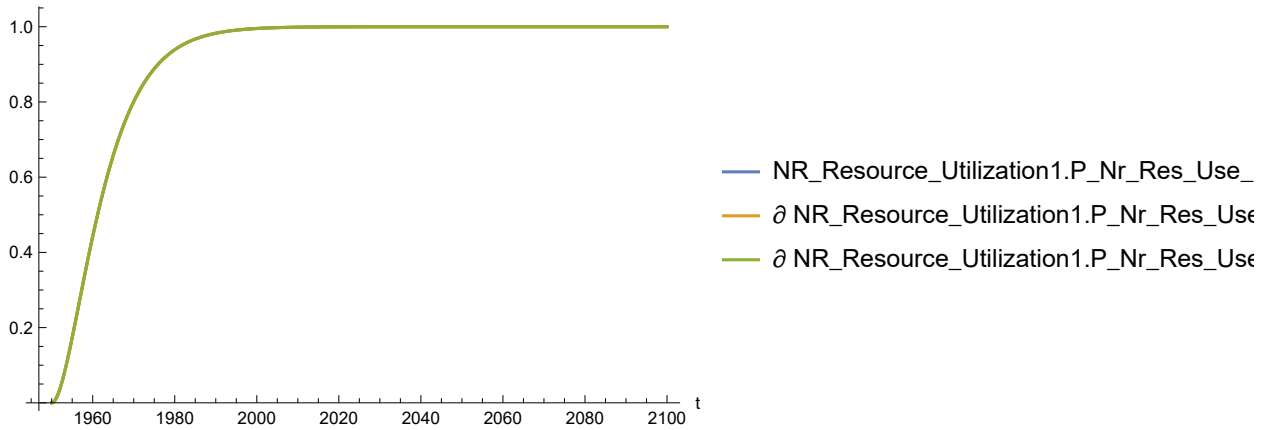
Out[232]=



In[233]:=

```
SystemModelPlot[simsensdata,
  {"NR_Resource_Utilization1.P_Nr_Res_Use_Fact_2.Smooth2.Integrator1.y",
   "Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[5]", percentvar}]
```

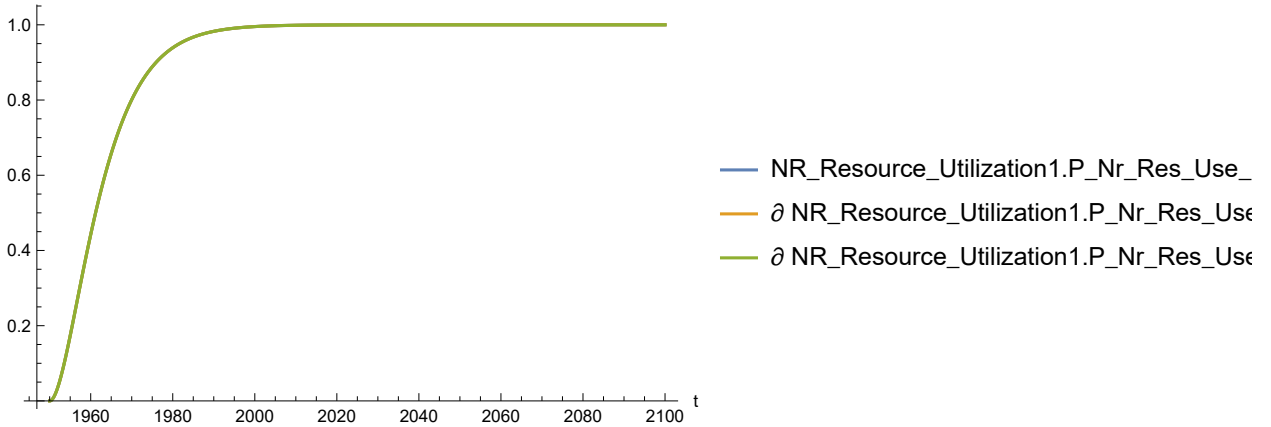
Out[233]=



In[234]:=

```
SystemModelPlot[simsensdata,
  {"NR_Resource_Utilization1.P_Nr_Res_Use_Fact_2.Smooth2.Integrator1.y",
   "Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[6]", percentvar}]
```

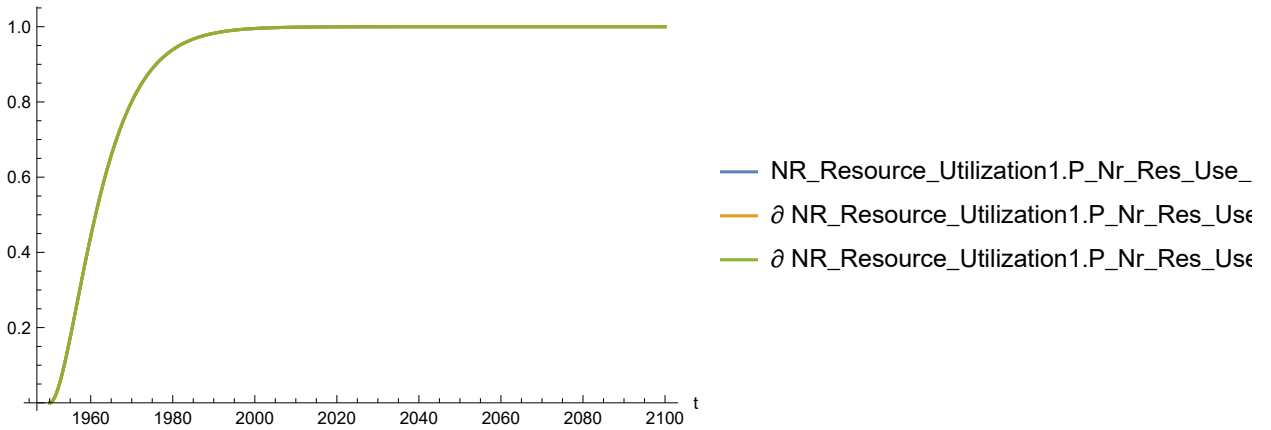
Out[234]=



In[235]:=

```
SystemModelPlot[simsensdata,
  {"NR_Resource_Utilization1.P_Nr_Res_Use_Fact_2.Smooth2.Integrator1.y",
   "Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[7]", percentvar}]
```

Out[235]=

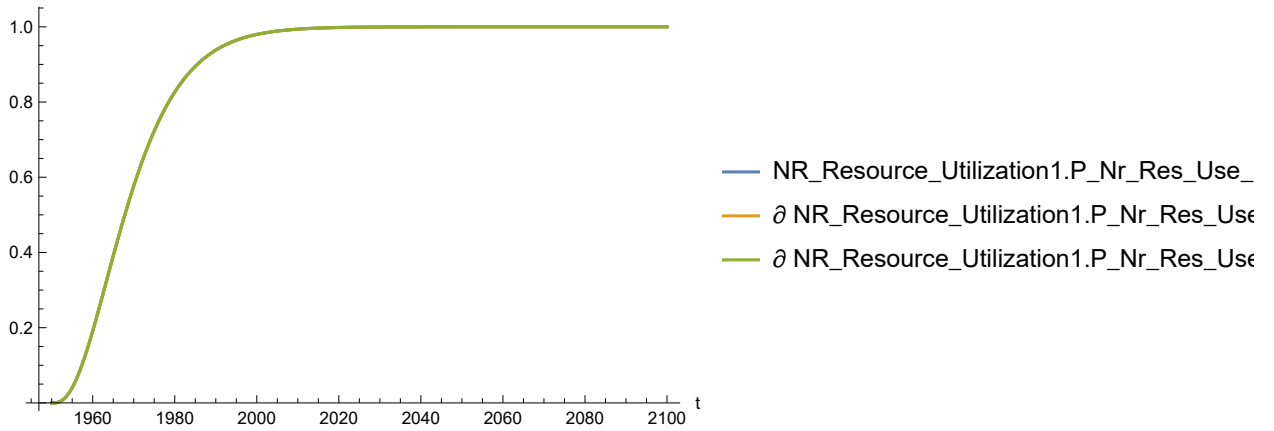


Plot the sensitivity of `NR_Resource_Utilization1.P_Nr_Res_Use_Fact_2.Smooth3.Integrator1.y` to `Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals`.

In[236]:=

```
SystemModelPlot[simsensdata,
  {"NR_Resource_Utilization1.P_Nr_Res_Use_Fact_2.Smooth3.Integrator1.y",
   "Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[1]", percentvar}]
```

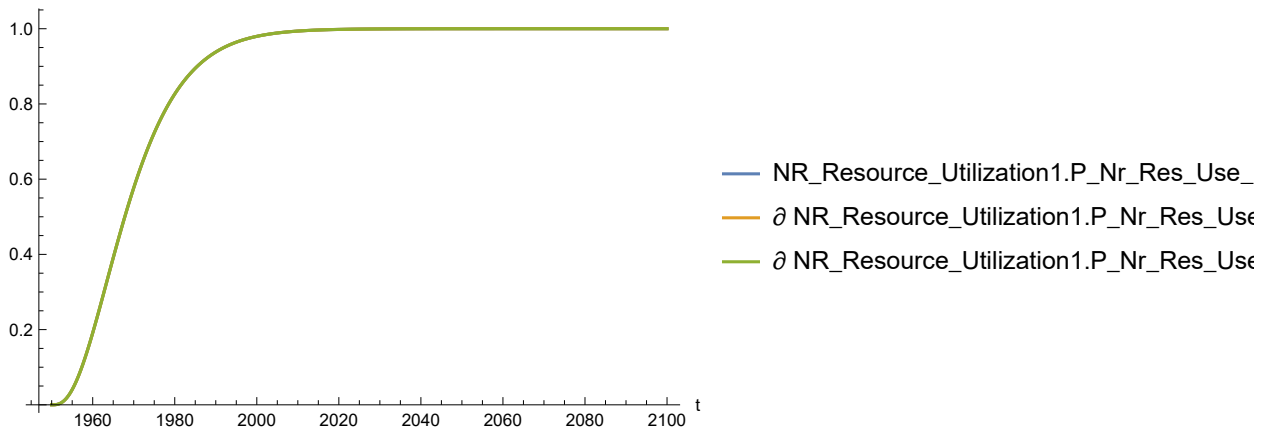
Out[236]=



In[237]:=

```
SystemModelPlot[simsensdata,
  {"NR_Resource_Utilization1.P_Nr_Res_Use_Fact_2.Smooth3.Integrator1.y",
   "Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[2]", percentvar}]
```

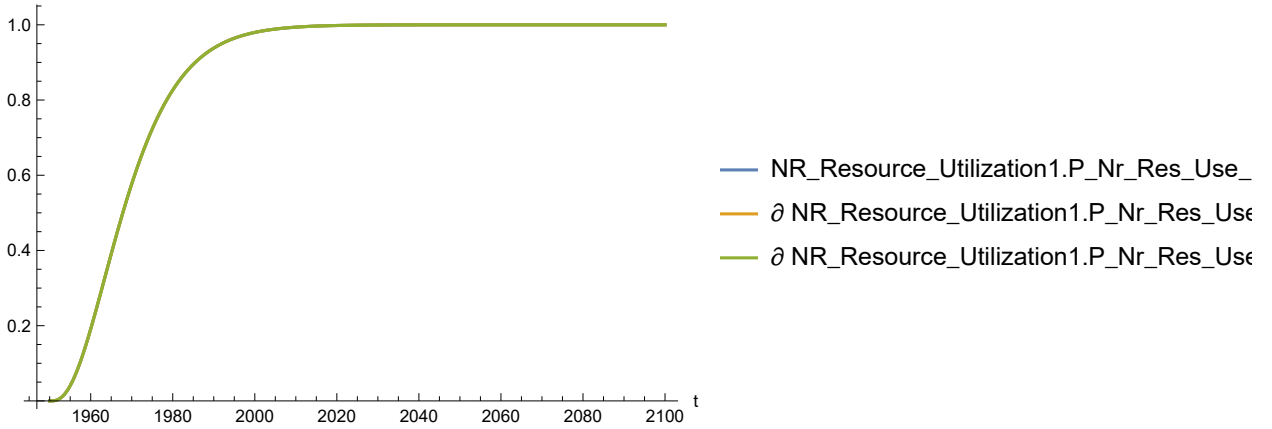
Out[237]=



In[238]:=

```
SystemModelPlot[simsensdata,
  {"NR_Resource_Utilization1.P_Nr_Res_Use_Fact_2.Smooth3.Integrator1.y",
   "Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[3]", percentvar}]
```

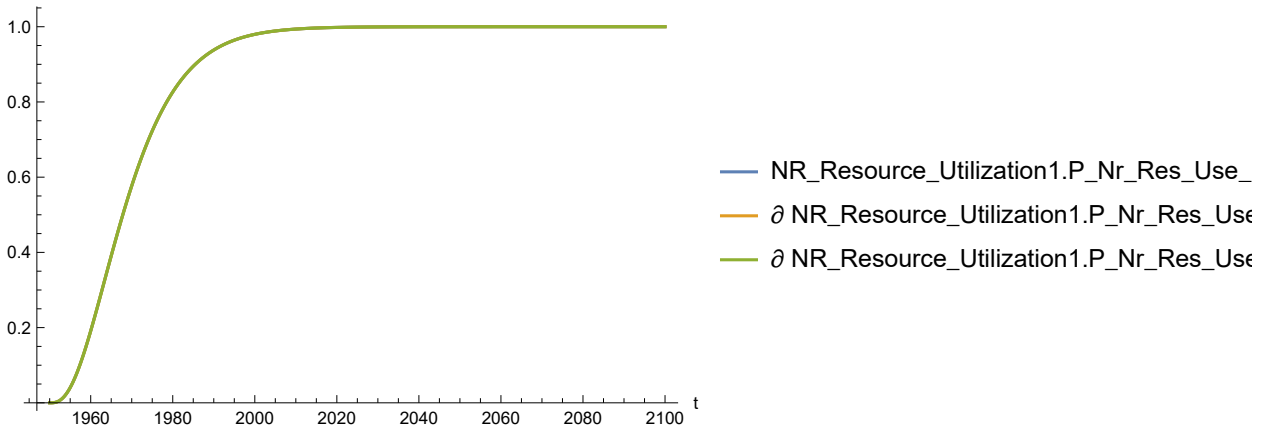
Out[238]=



In[239]:=

```
SystemModelPlot[simsensdata,
  {"NR_Resource_Utilization1.P_Nr_Res_Use_Fact_2.Smooth3.Integrator1.y",
   "Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[4]", percentvar}]
```

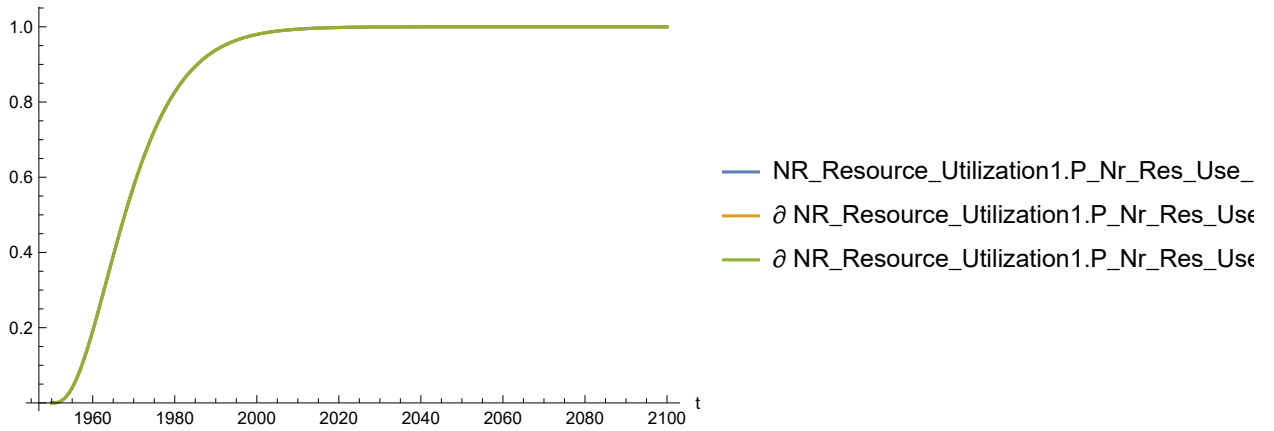
Out[239]=



In[240]:=

```
SystemModelPlot[simsensdata,
  {"NR_Resource_Utilization1.P_Nr_Res_Use_Fact_2.Smooth3.Integrator1.y",
   "Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[5]", percentvar}]
```

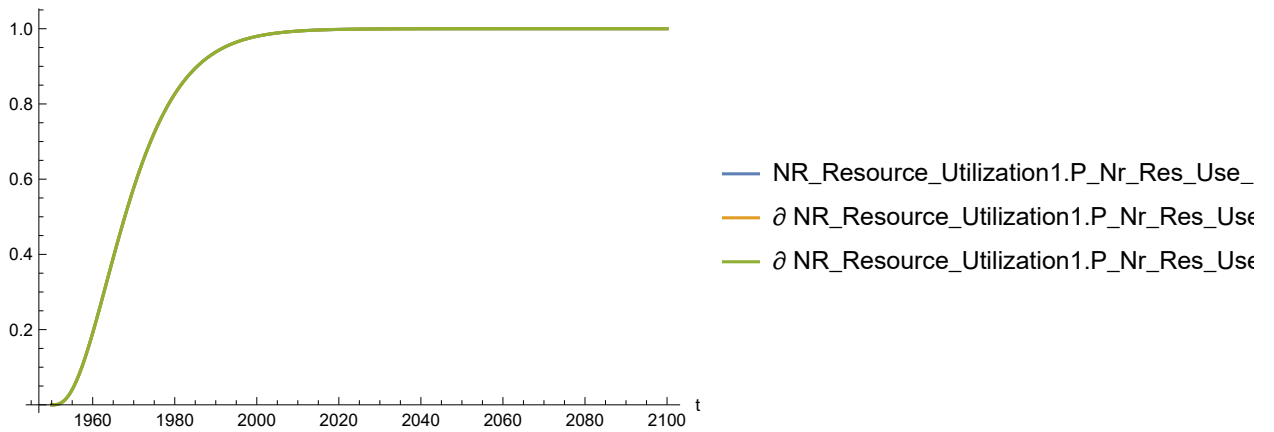
Out[240]=



In[241]:=

```
SystemModelPlot[simsensdata,
  {"NR_Resource_Utilization1.P_Nr_Res_Use_Fact_2.Smooth3.Integrator1.y",
   "Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[6]", percentvar}]
```

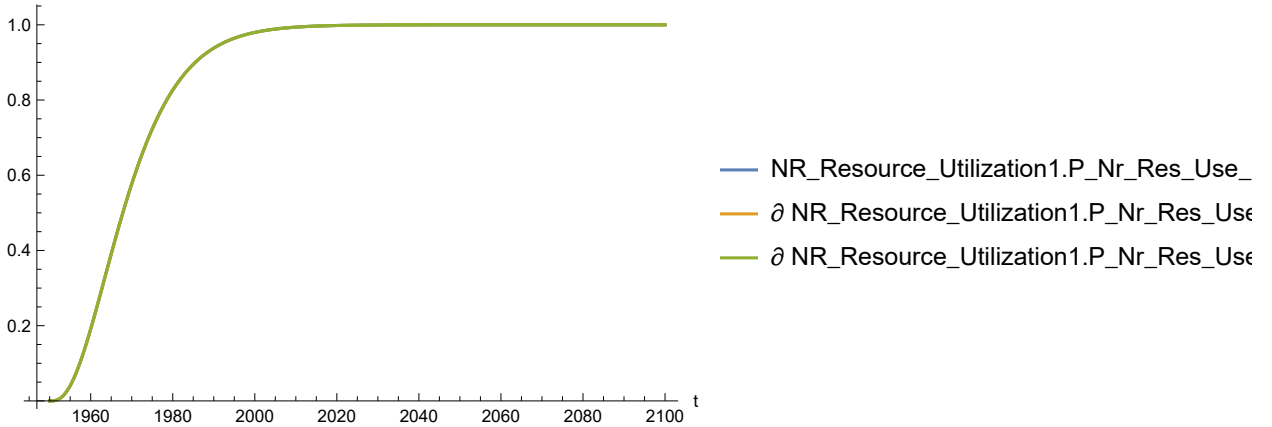
Out[241]=



In[242]:=

```
SystemModelPlot[simsensdata,
  {"NR_Resource_Utilization1.P_Nr_Res_Use_Fact_2.Smooth3.Integrator1.y",
   "Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[7]", percentvar}]
```

Out[242]=

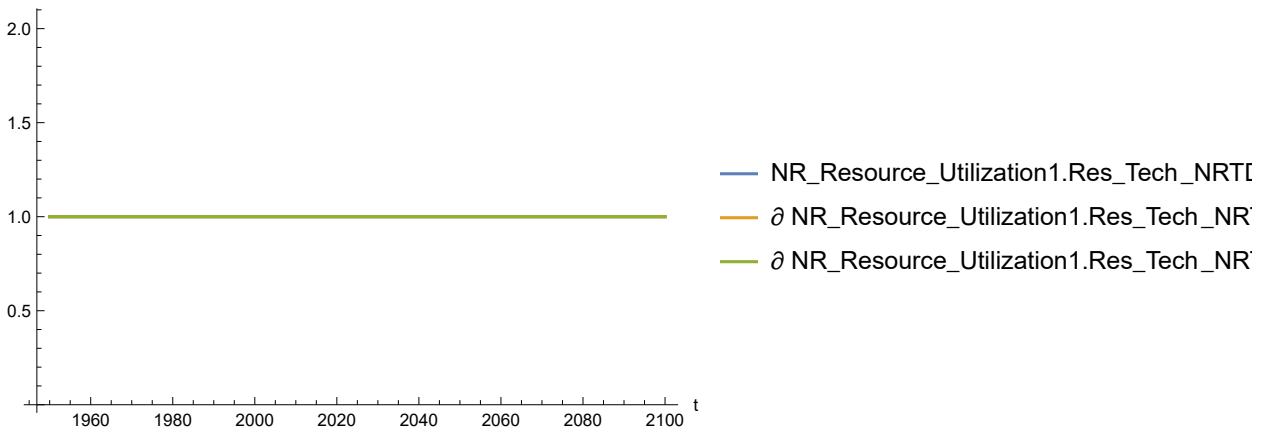


Plot the sensitivity of NR_Resource_Utilization1.Res_Tech_NRTD.Integrator1.y to Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals.

In[243]:=

```
SystemModelPlot[simsensdata, {"NR_Resource_Utilization1.Res_Tech_NRTD.Integrator1.y",
  "Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[1]", percentvar}]
```

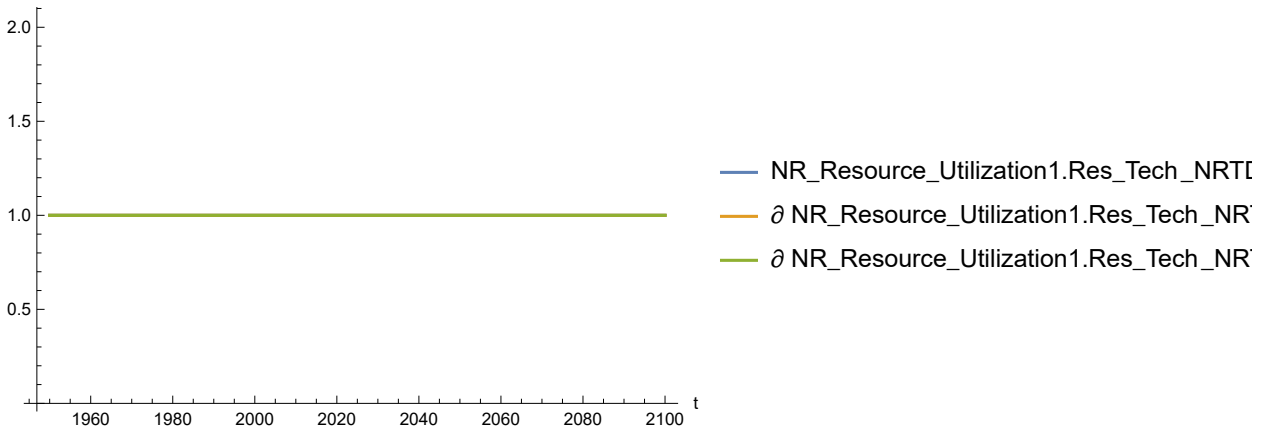
Out[243]=



In[244]:=

```
SystemModelPlot[simsensdata, {"NR_Resource_Utilization1.Res_Tech_NRTD.Integrator1.y",
"Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[2]", percentvar}]
```

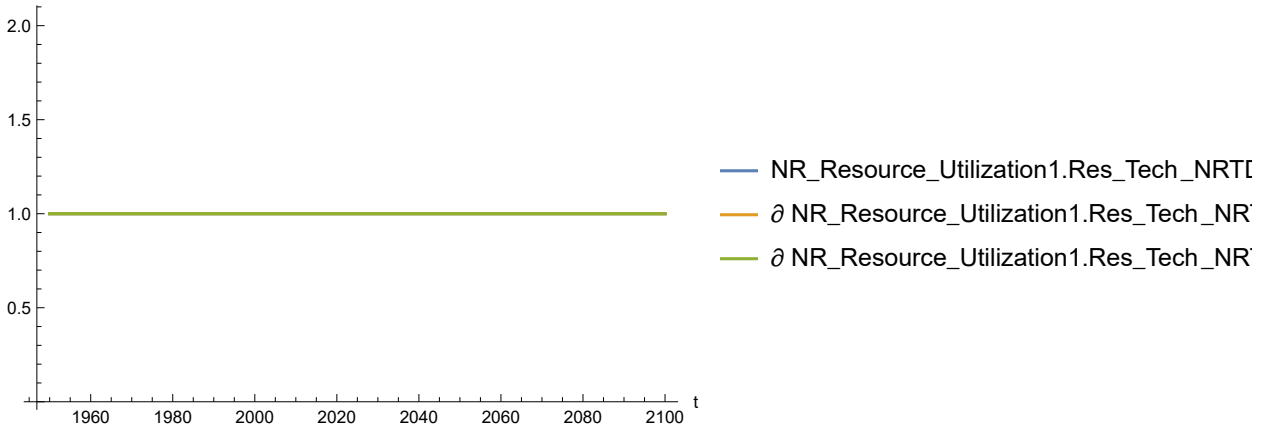
Out[244]=



In[245]:=

```
SystemModelPlot[simsensdata, {"NR_Resource_Utilization1.Res_Tech_NRTD.Integrator1.y",
"Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[3]", percentvar}]
```

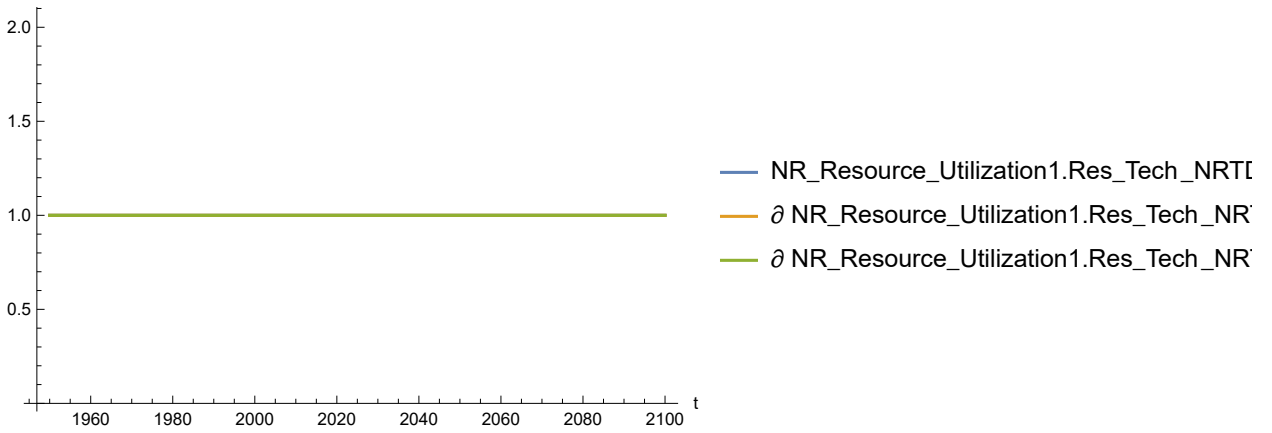
Out[245]=



In[246]:=

```
SystemModelPlot[simsensdata, {"NR_Resource_Utilization1.Res_Tech_NRTD.Integrator1.y",
"Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[4]", percentvar}]
```

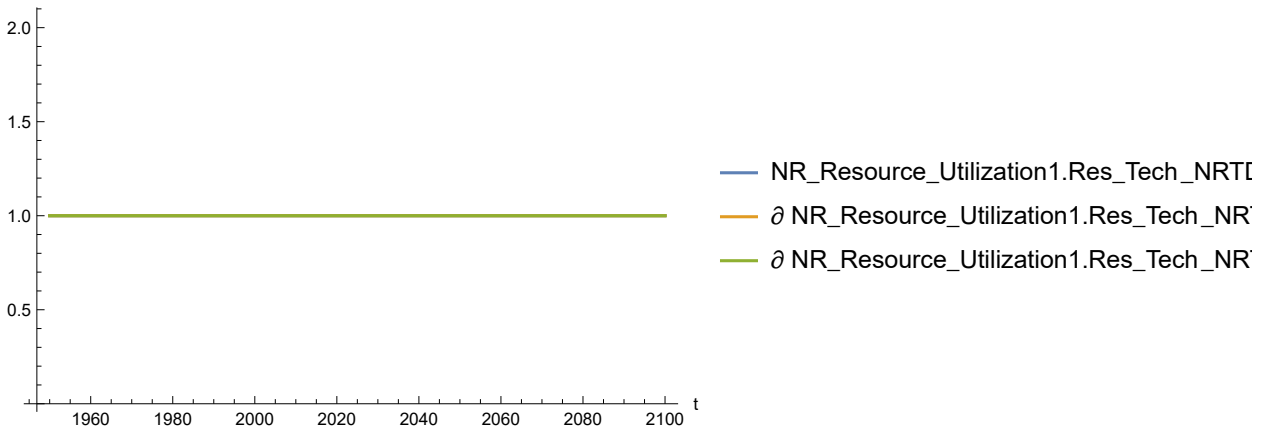
Out[246]=



In[247]:=

```
SystemModelPlot[simsensdata, {"NR_Resource_Utilization1.Res_Tech_NRTD.Integrator1.y",
"Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[5]", percentvar}]
```

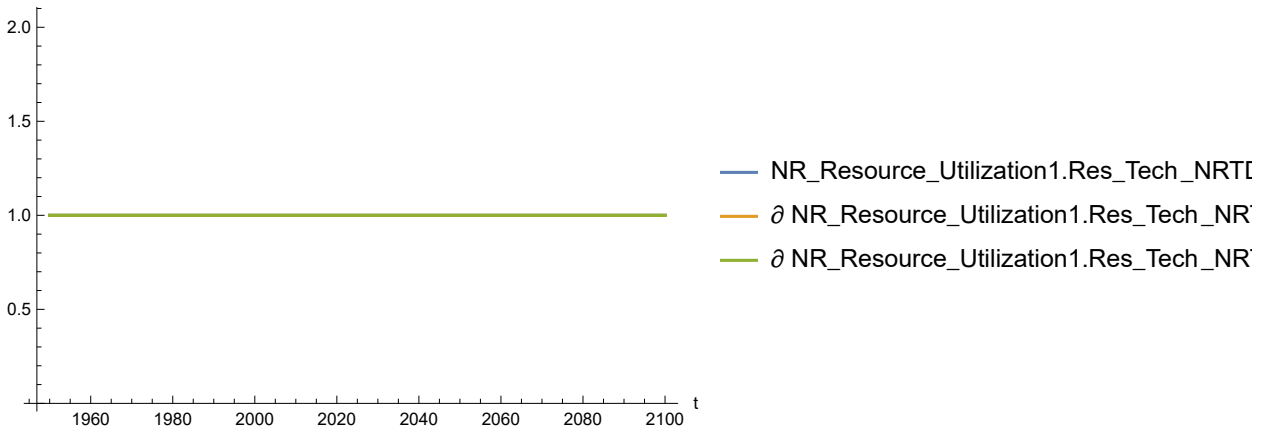
Out[247]=



In[248]:=

```
SystemModelPlot[simsensdata, {"NR_Resource_Utilization1.Res_Tech_NRTD.Integrator1.y",
"Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[6]", percentvar}]
```

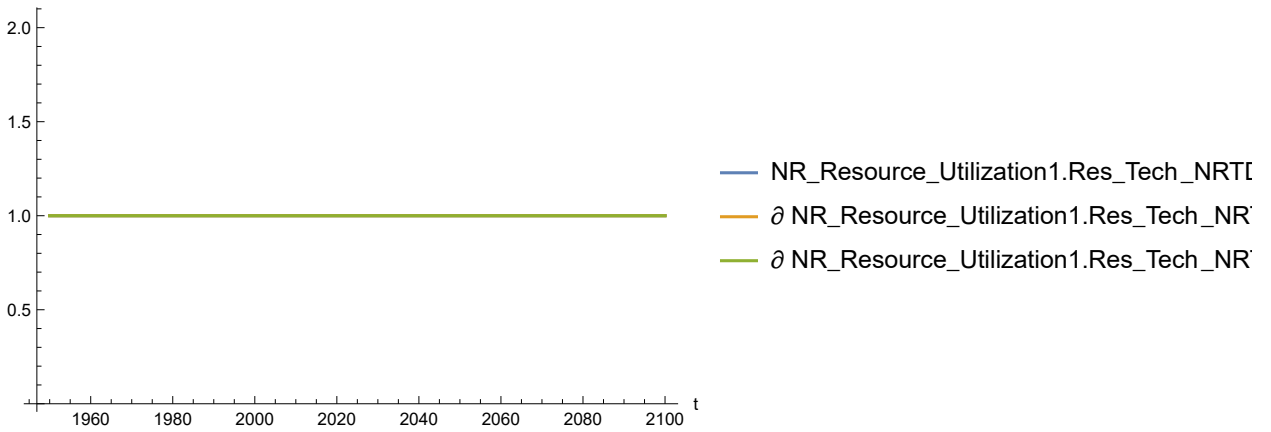
Out[248]=



In[249]:=

```
SystemModelPlot[simsensdata, {"NR_Resource_Utilization1.Res_Tech_NRTD.Integrator1.y",
"Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[7]", percentvar}]
```

Out[249]=

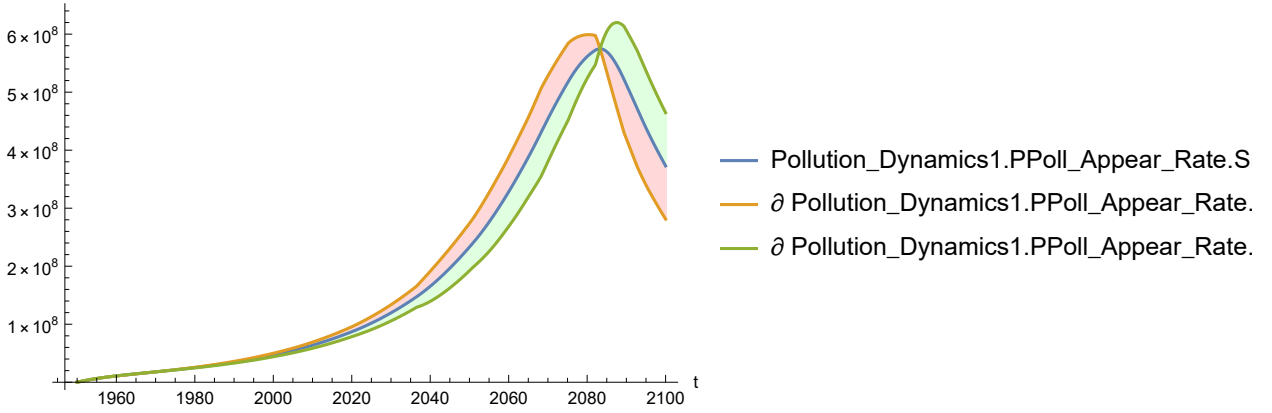


Plot the sensitivity of Pollution_Dynamics1.PPoll_Appear_Rate.Smooth1.Integrator1.y to Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals.

In[250]:=

```
SystemModelPlot[simsensdata,
  {"Pollution_Dynamics1.PPoll_Appear_Rate.Smooth1.Integrator1.y",
   "Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[1]", percentvar}]
```

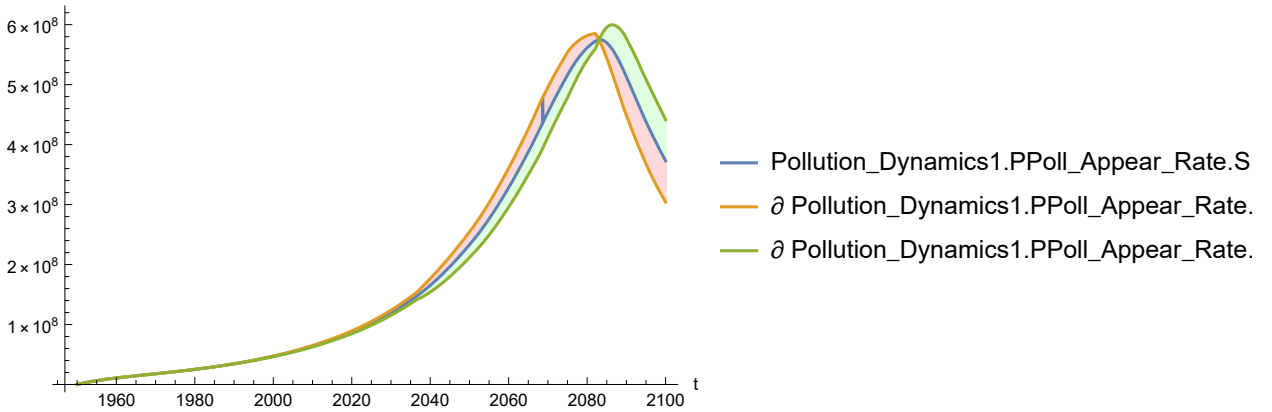
Out[250]=



In[251]:=

```
SystemModelPlot[simsensdata,
  {"Pollution_Dynamics1.PPoll_Appear_Rate.Smooth1.Integrator1.y",
   "Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[2]", percentvar}]
```

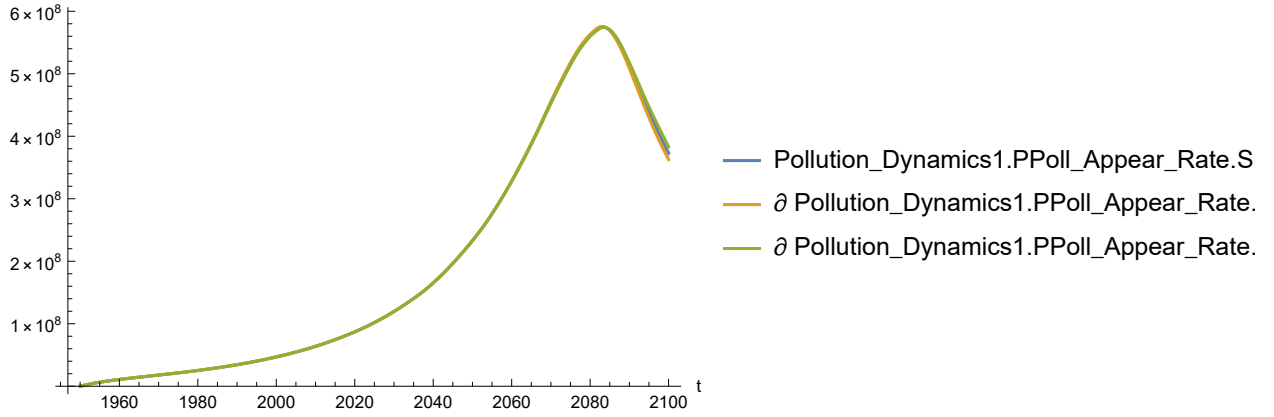
Out[251]=



In[252]:=

```
SystemModelPlot[simsensdata,
  {"Pollution_Dynamics1.PPoll_Appear_Rate.Smooth1.Integrator1.y",
   "Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[3]", percentvar}]
```

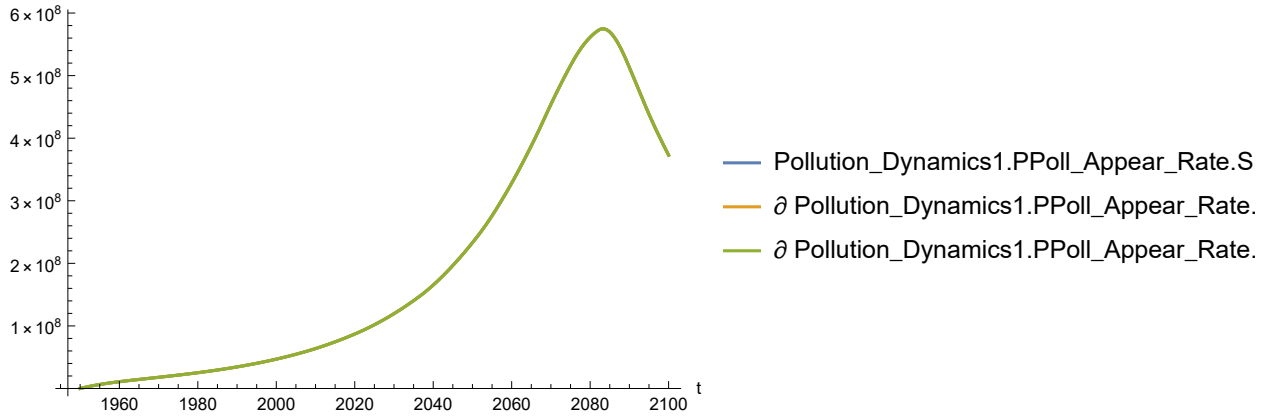
Out[252]=



In[253]:=

```
SystemModelPlot[simsensdata,
  {"Pollution_Dynamics1.PPoll_Appear_Rate.Smooth1.Integrator1.y",
   "Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[4]", percentvar}]
```

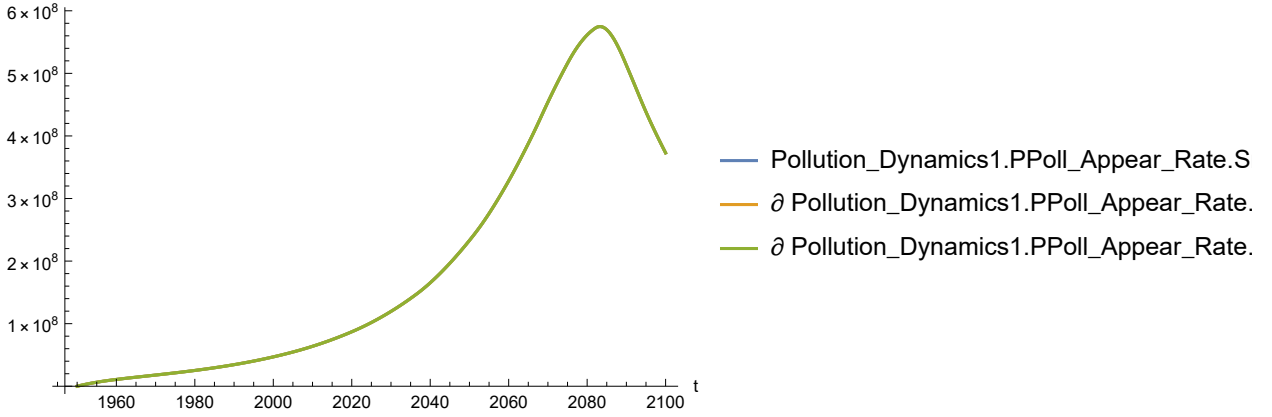
Out[253]=



In[254]:=

```
SystemModelPlot[simsensdata,
  {"Pollution_Dynamics1.PPoll_Appear_Rate.Smooth1.Integrator1.y",
   "Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[5]", percentvar}]
```

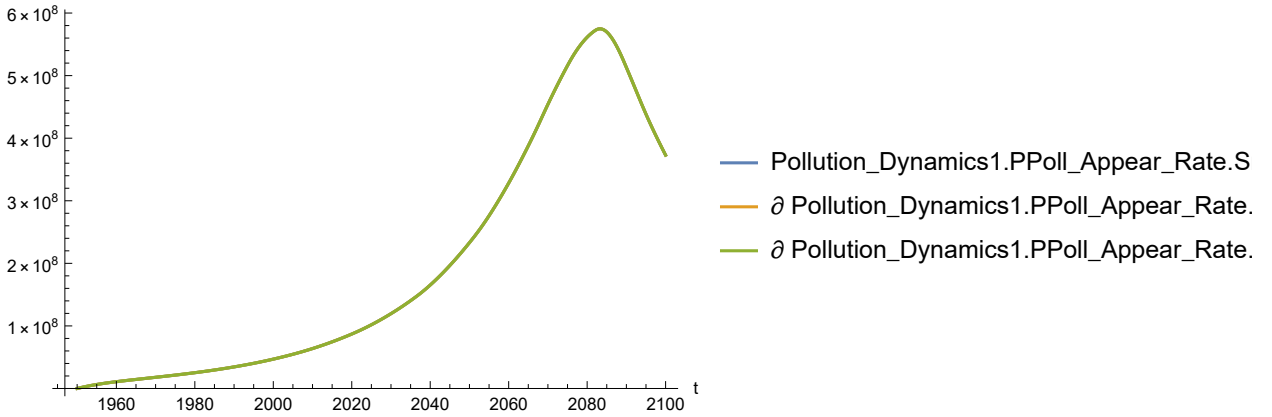
Out[254]=



In[255]:=

```
SystemModelPlot[simsensdata,
  {"Pollution_Dynamics1.PPoll_Appear_Rate.Smooth1.Integrator1.y",
   "Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[6]", percentvar}]
```

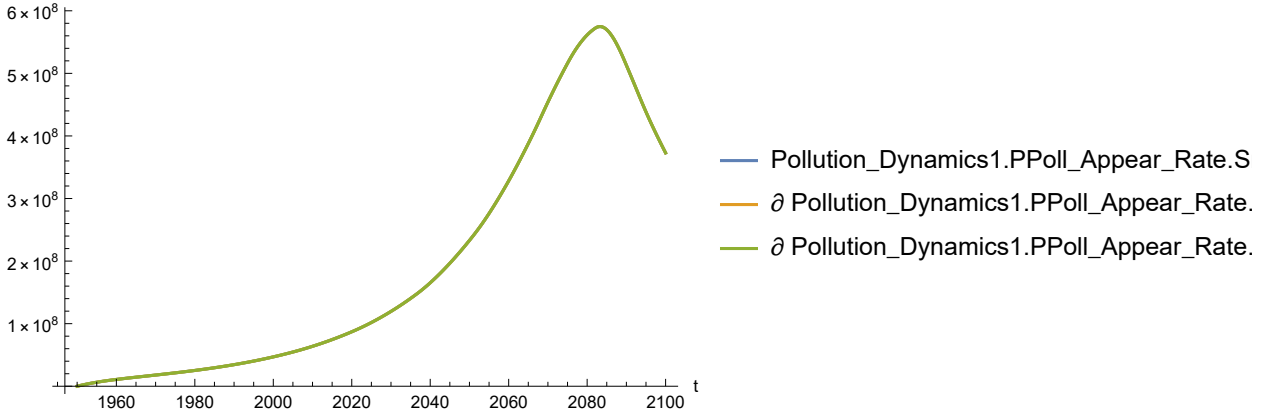
Out[255]=



In[256]:=

```
SystemModelPlot[simsensdata,
  {"Pollution_Dynamics1.PPoll_Appear_Rate.Smooth1.Integrator1.y",
   "Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[7]", percentvar}]
```

Out[256]=

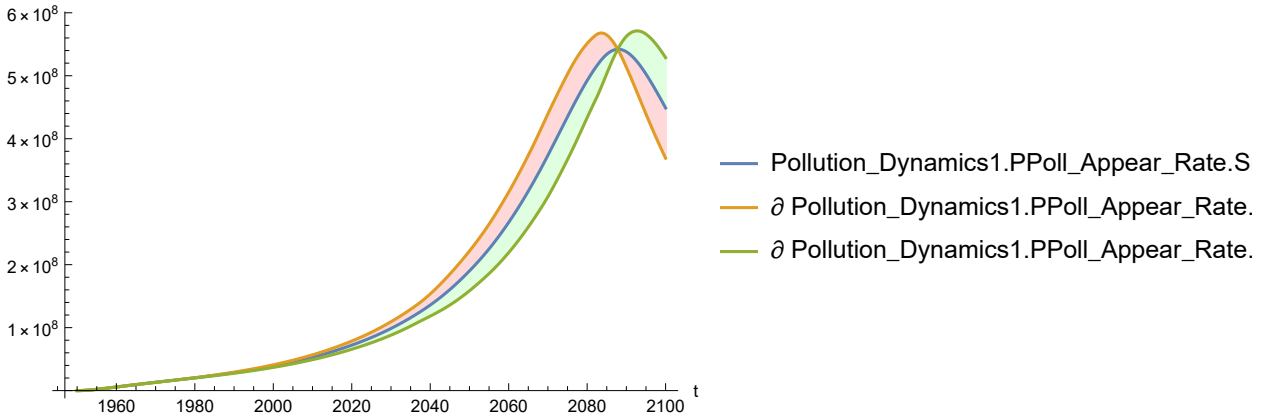


Plot the sensitivity of Pollution_Dynamics1.PPoll_Appear_Rate.Smooth2.Integrator1.y to Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals.

In[257]:=

```
SystemModelPlot[simsensdata,
  {"Pollution_Dynamics1.PPoll_Appear_Rate.Smooth2.Integrator1.y",
   "Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[1]", percentvar}]
```

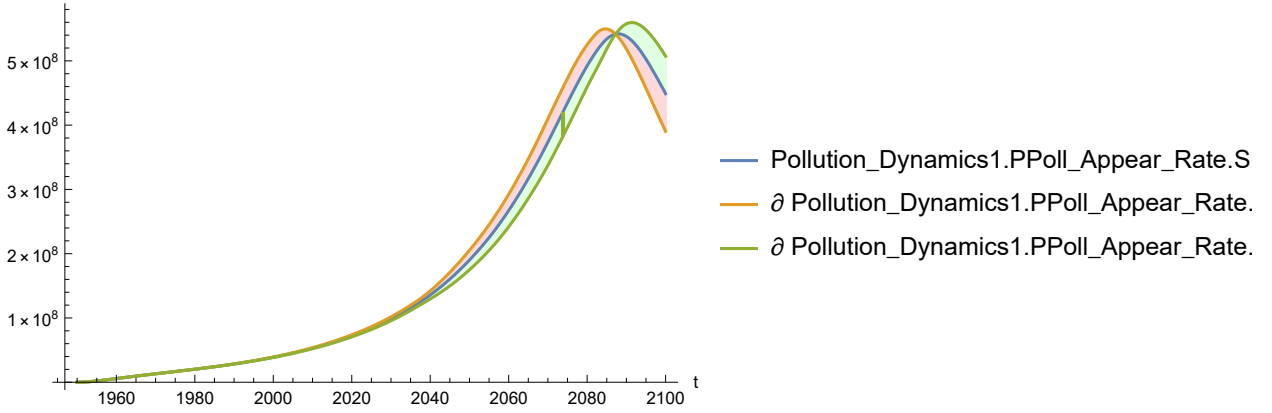
Out[257]=



In[258]:=

```
SystemModelPlot[simsensdata,
  {"Pollution_Dynamics1.PPoll_Appear_Rate.Smooth2.Integrator1.y",
   "Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[2]", percentvar}]
```

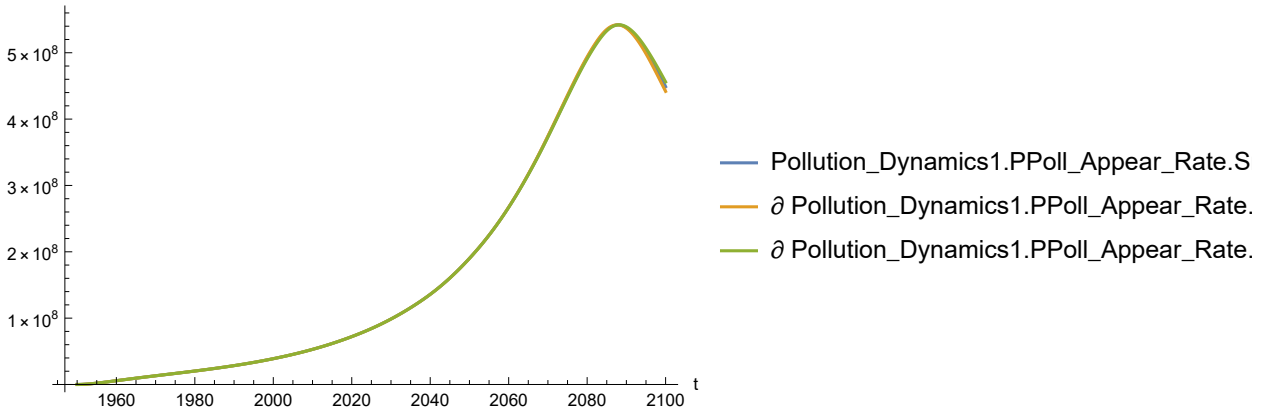
Out[258]=



In[259]:=

```
SystemModelPlot[simsensdata,
  {"Pollution_Dynamics1.PPoll_Appear_Rate.Smooth2.Integrator1.y",
   "Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[3]", percentvar}]
```

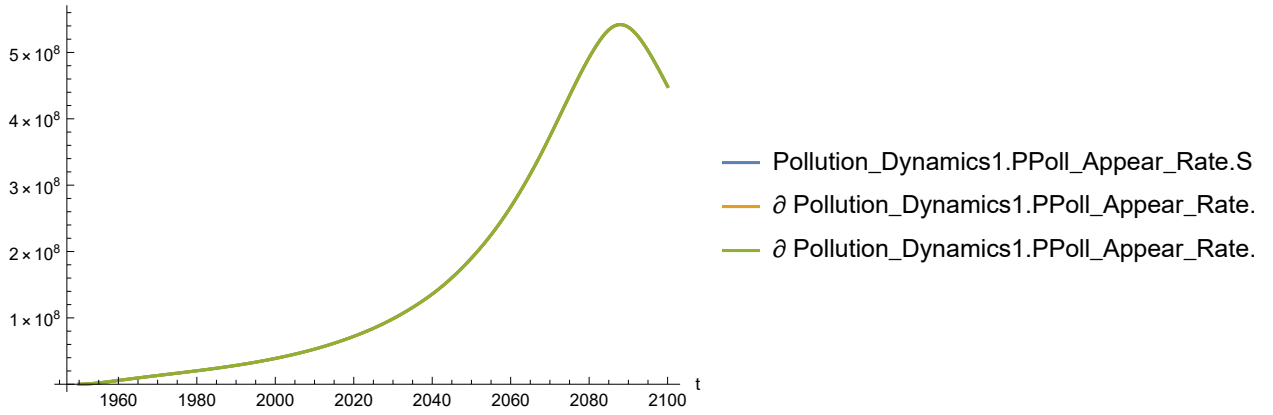
Out[259]=



In[260]:=

```
SystemModelPlot[simsensdata,
  {"Pollution_Dynamics1.PPoll_Appear_Rate.Smooth2.Integrator1.y",
   "Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[4]", percentvar}]
```

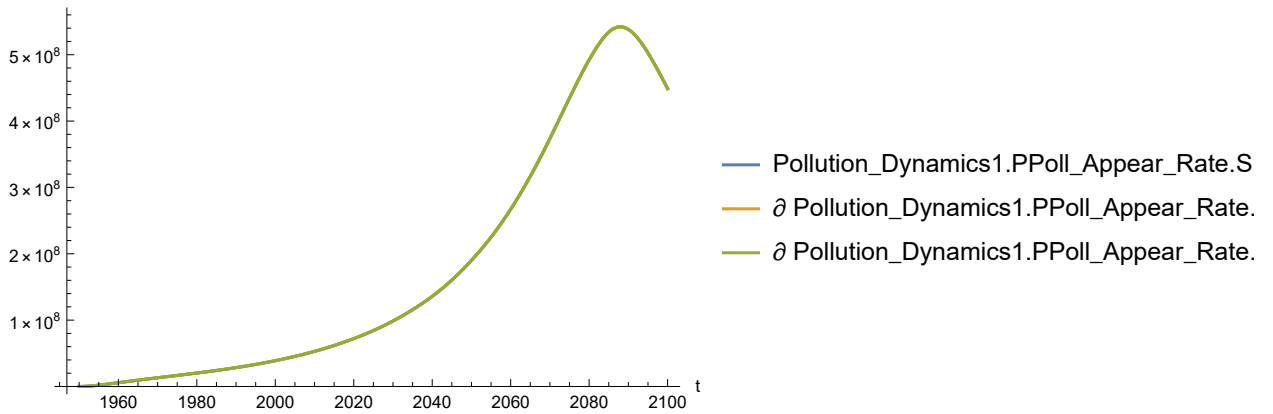
Out[260]=



In[261]:=

```
SystemModelPlot[simsensdata,
  {"Pollution_Dynamics1.PPoll_Appear_Rate.Smooth2.Integrator1.y",
   "Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[5]", percentvar}]
```

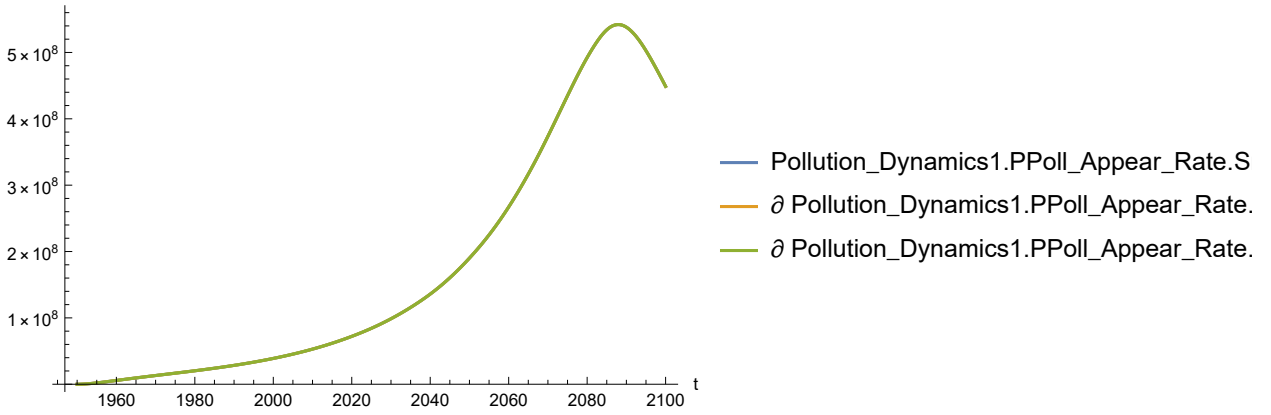
Out[261]=



In[262]:=

```
SystemModelPlot[simsensdata,
  {"Pollution_Dynamics1.PPoll_Appear_Rate.Smooth2.Integrator1.y",
   "Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[6]", percentvar}]
```

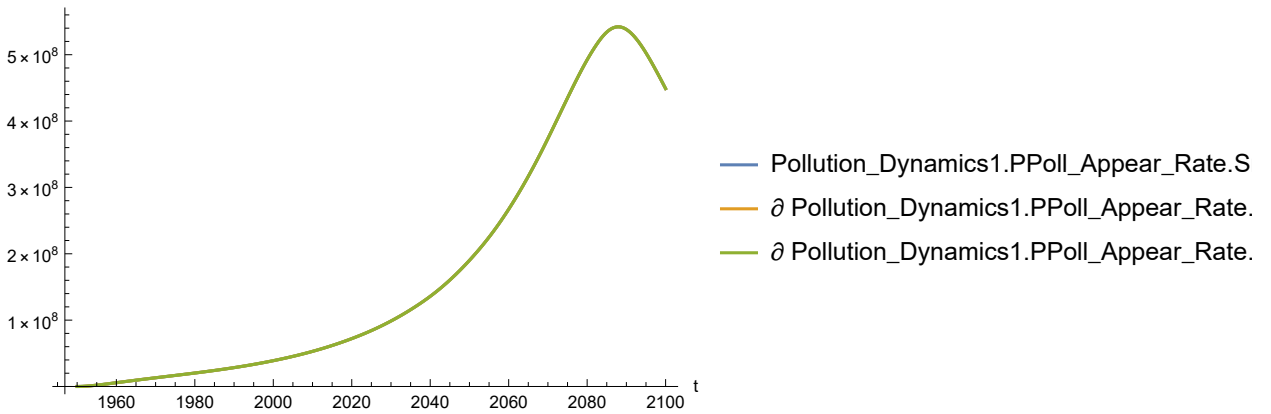
Out[262]=



In[263]:=

```
SystemModelPlot[simsensdata,
  {"Pollution_Dynamics1.PPoll_Appear_Rate.Smooth2.Integrator1.y",
   "Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[7]", percentvar}]
```

Out[263]=

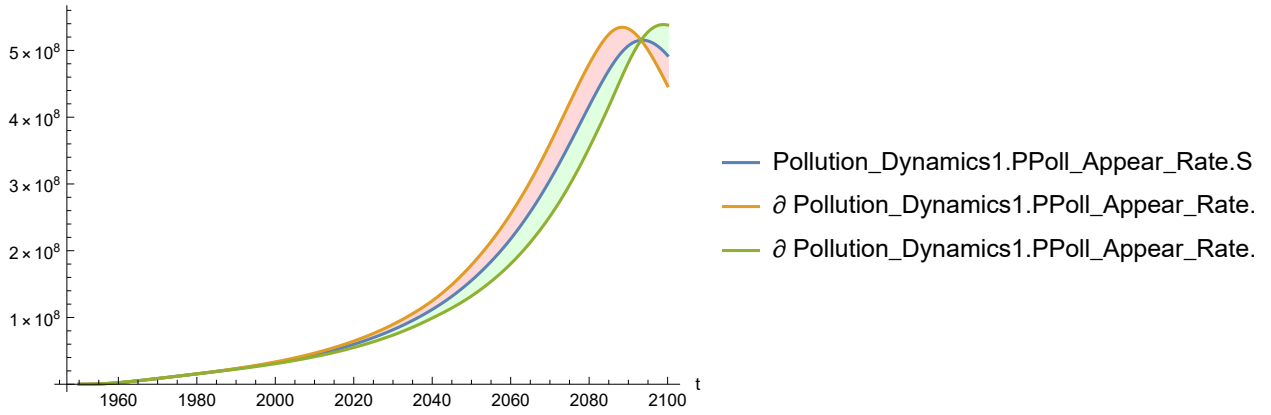


Plot the sensitivity of Pollution_Dynamics1.PPoll_Appear_Rate.Smooth3.Integrator1.y to Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals.

In[264]:=

```
SystemModelPlot[simsensdata,
  {"Pollution_Dynamics1.PPoll_Appear_Rate.Smooth3.Integrator1.y",
   "Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[1]", percentvar}]
```

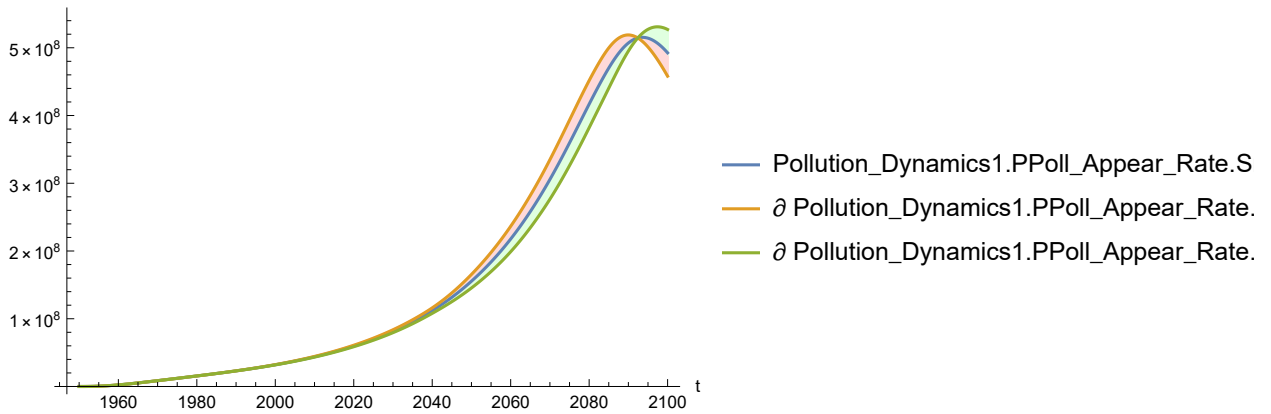
Out[264]=



In[265]:=

```
SystemModelPlot[simsensdata,
  {"Pollution_Dynamics1.PPoll_Appear_Rate.Smooth3.Integrator1.y",
   "Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[2]", percentvar}]
```

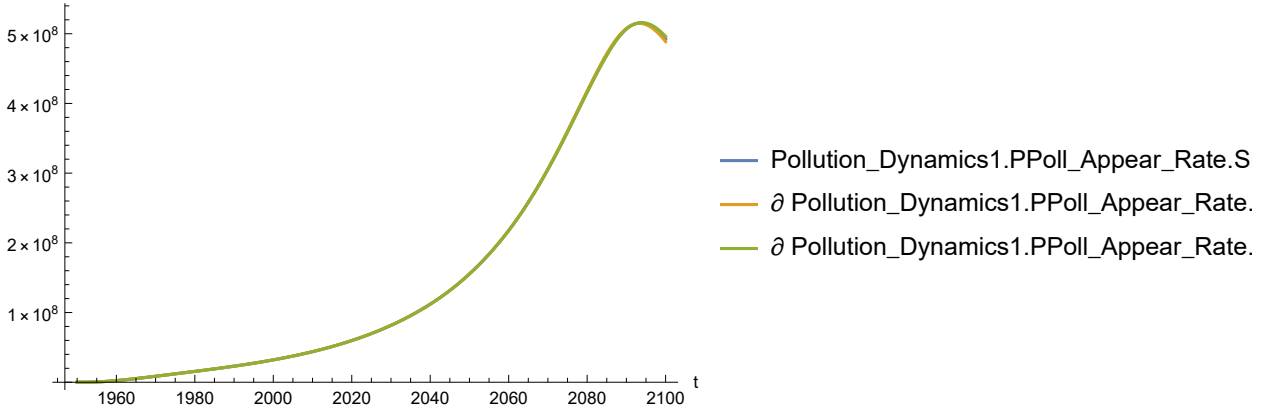
Out[265]=



In[266]:=

```
SystemModelPlot[simsensdata,
  {"Pollution_Dynamics1.PPoll_Appear_Rate.Smooth3.Integrator1.y",
   "Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[3]", percentvar}]
```

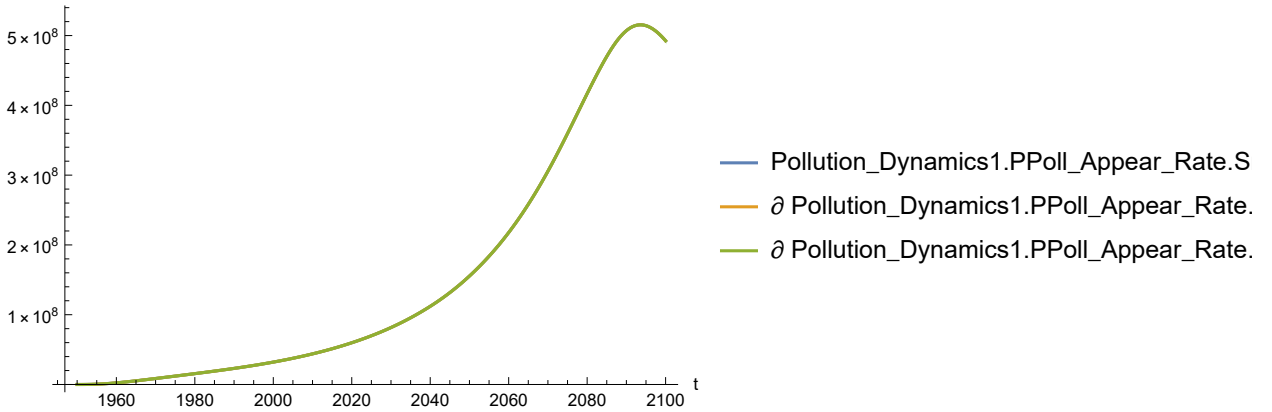
Out[266]=



In[267]:=

```
SystemModelPlot[simsensdata,
  {"Pollution_Dynamics1.PPoll_Appear_Rate.Smooth3.Integrator1.y",
   "Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[4]", percentvar}]
```

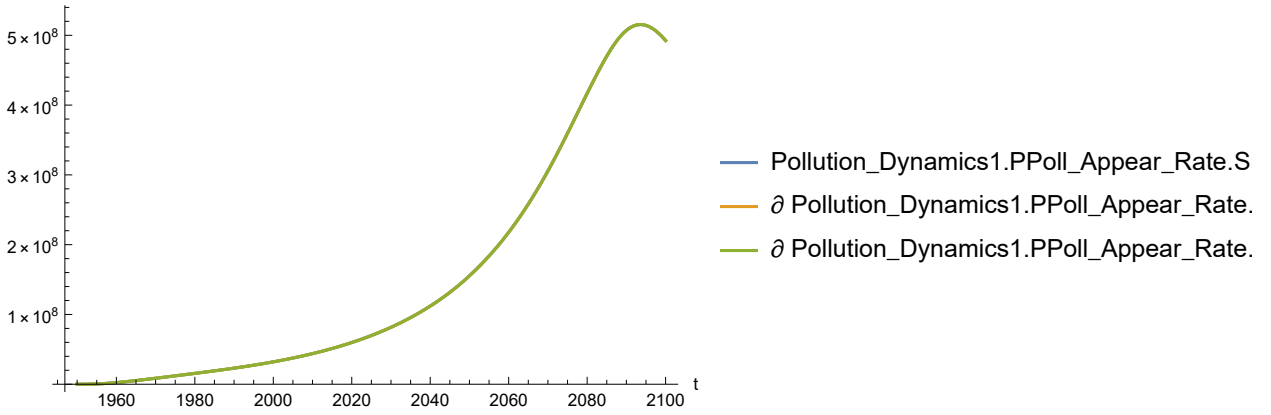
Out[267]=



In[268]:=

```
SystemModelPlot[simsensdata,
  {"Pollution_Dynamics1.PPoll_Appear_Rate.Smooth3.Integrator1.y",
   "Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[5]", percentvar}]
```

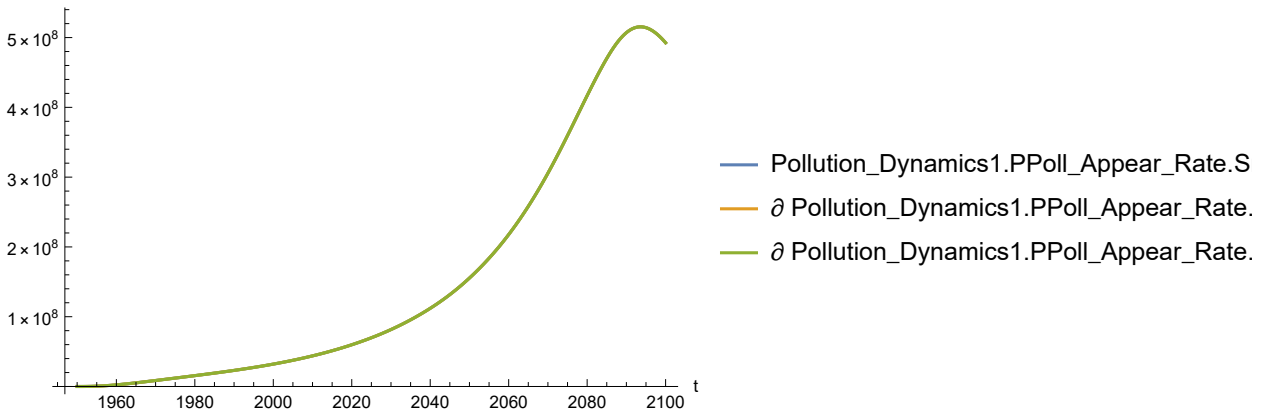
Out[268]=



In[269]:=

```
SystemModelPlot[simsensdata,
  {"Pollution_Dynamics1.PPoll_Appear_Rate.Smooth3.Integrator1.y",
   "Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[6]", percentvar}]
```

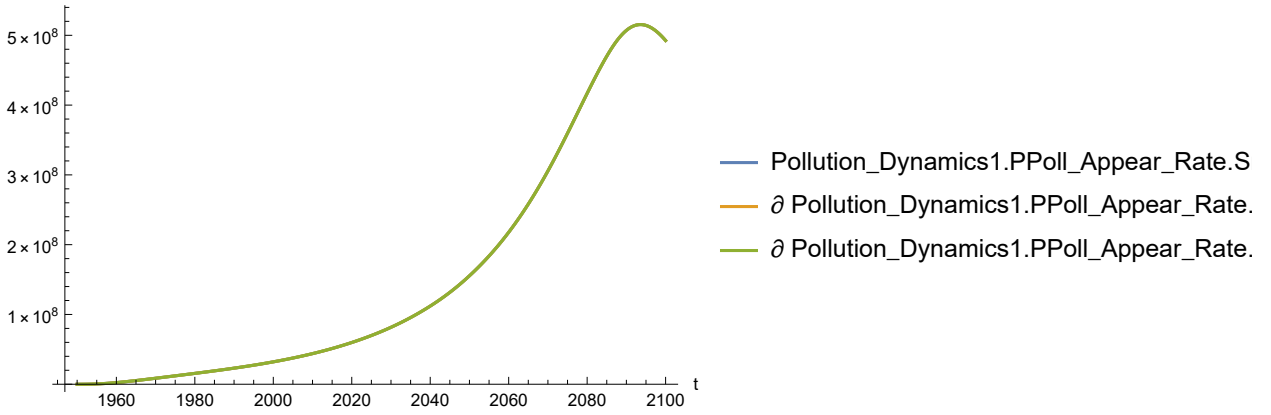
Out[269]=



In[270]:=

```
SystemModelPlot[simsensdata,
  {"Pollution_Dynamics1.PPoll_Appear_Rate.Smooth3.Integrator1.y",
   "Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[7]", percentvar}]
```

Out[270]=

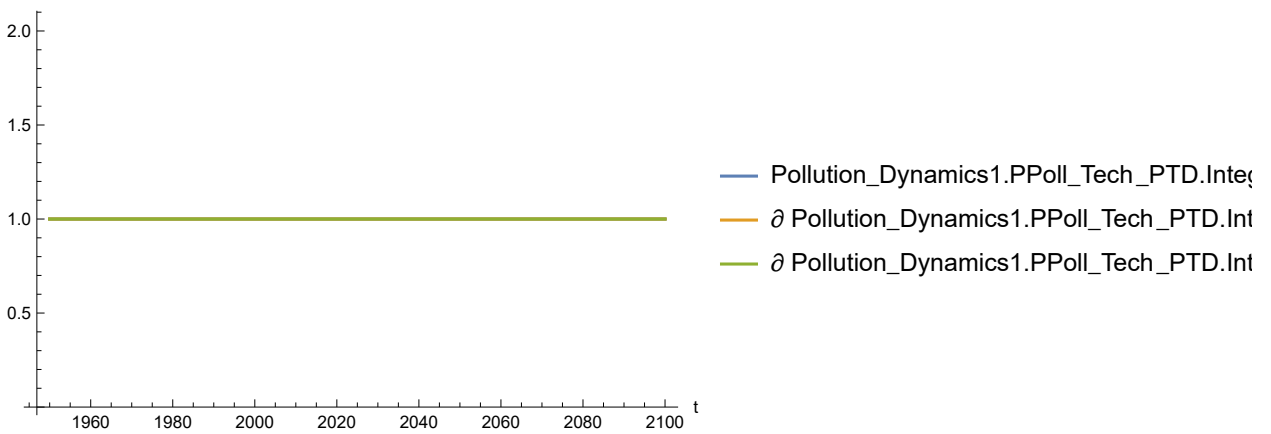


Plot the sensitivity of Pollution_Dynamics1.PPoll_Tech_PTD.Integrator1.y to Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals.

In[271]:=

```
SystemModelPlot[simsensdata, {"Pollution_Dynamics1.PPoll_Tech_PTD.Integrator1.y",
  "Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[1]", percentvar}]
```

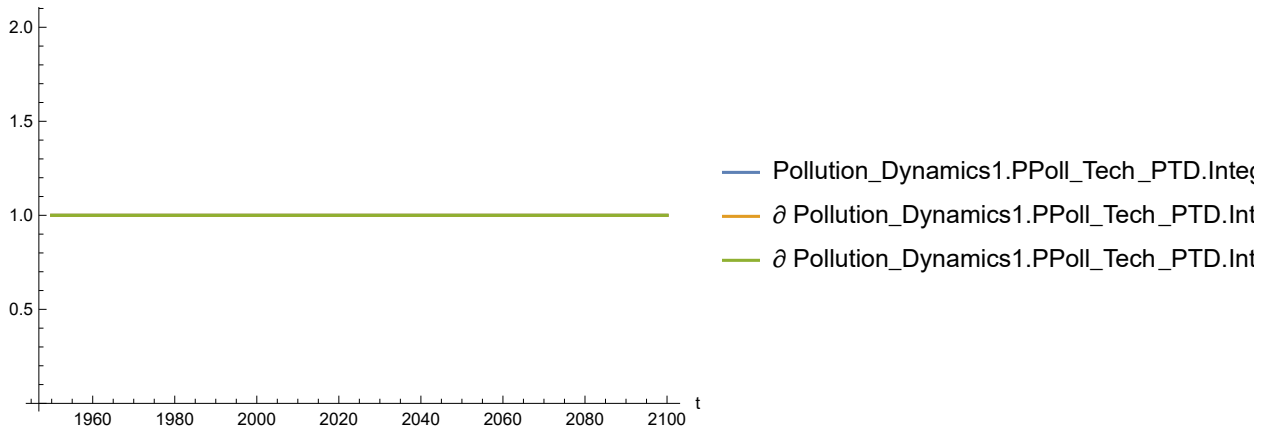
Out[271]=



In[272]:=

```
SystemModelPlot[simsensdata, {"Pollution_Dynamics1.PPoll_Tech_PTD.Integrator1.y",
"Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[2]", percentvar}]
```

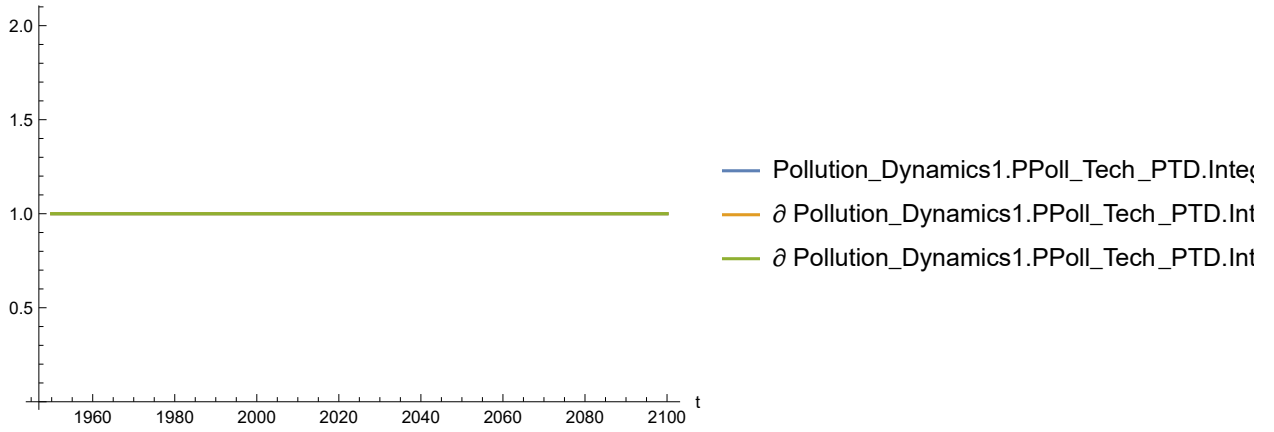
Out[272]=



In[273]:=

```
SystemModelPlot[simsensdata, {"Pollution_Dynamics1.PPoll_Tech_PTD.Integrator1.y",
"Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[3]", percentvar}]
```

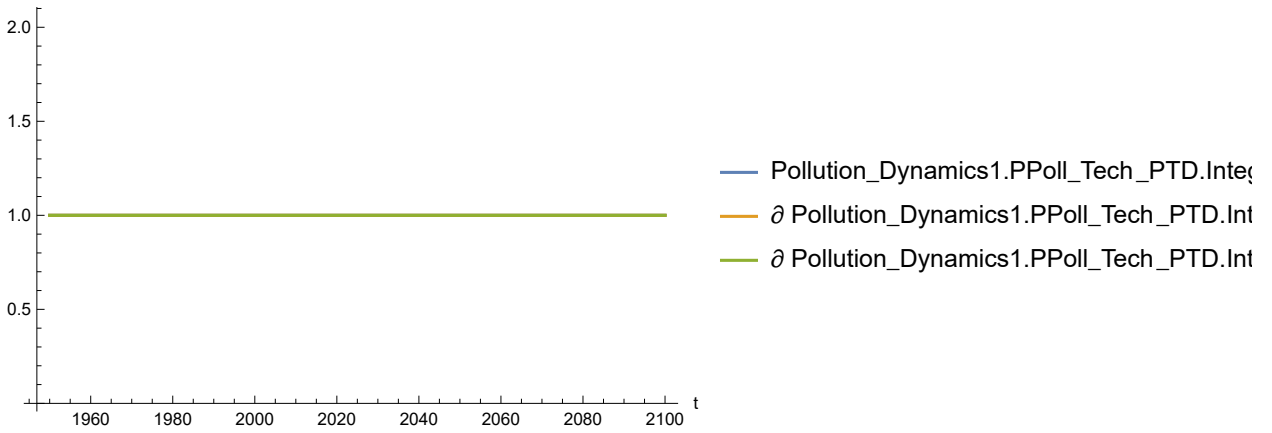
Out[273]=



In[274]:=

```
SystemModelPlot[simsensdata, {"Pollution_Dynamics1.PPoll_Tech_PTD.Integrator1.y",
"Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[4]", percentvar}]
```

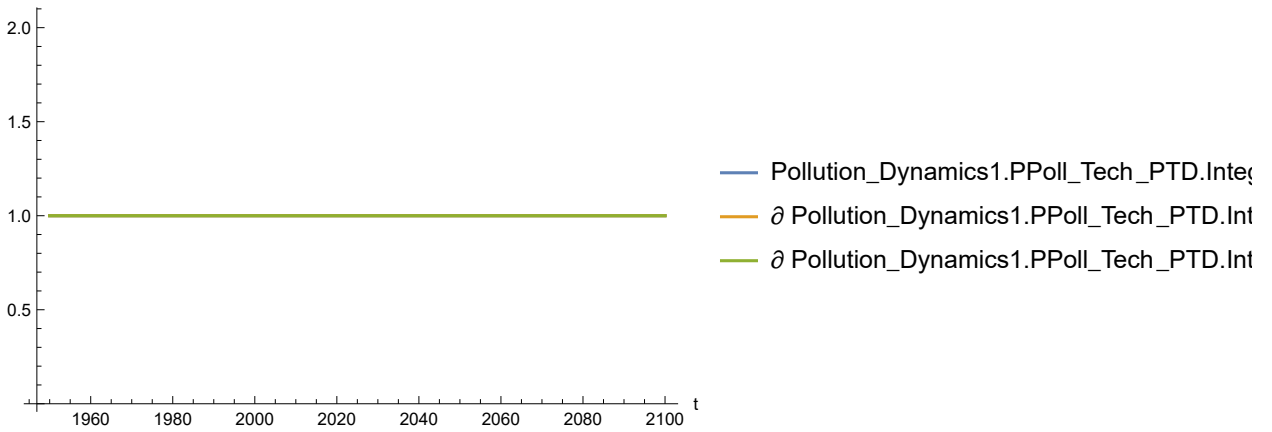
Out[274]:=



In[275]:=

```
SystemModelPlot[simsensdata, {"Pollution_Dynamics1.PPoll_Tech_PTD.Integrator1.y",
"Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[5]", percentvar}]
```

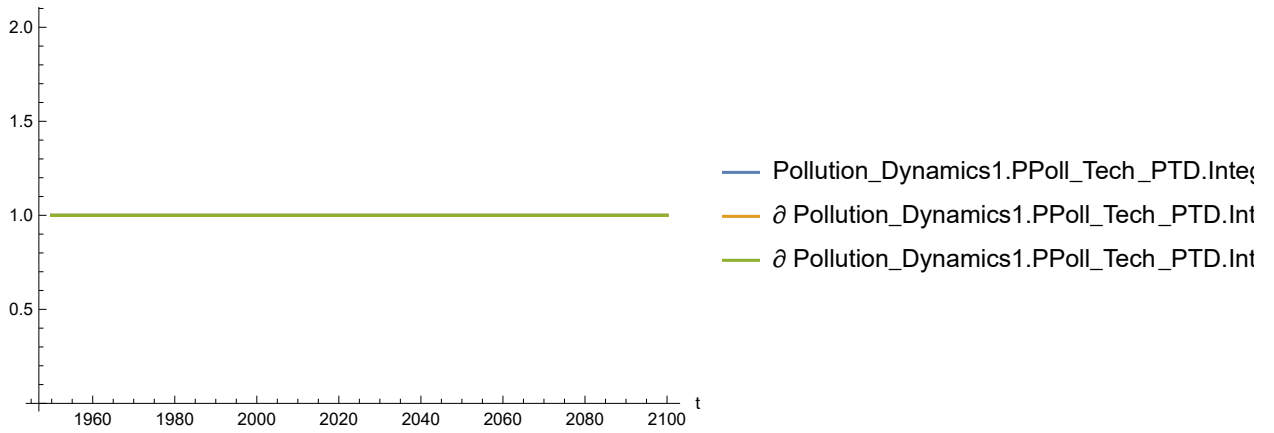
Out[275]:=



In[276]:=

```
SystemModelPlot[simsensdata, {"Pollution_Dynamics1.PPoll_Tech_PTD.Integrator1.y",
"Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[6]", percentvar}]
```

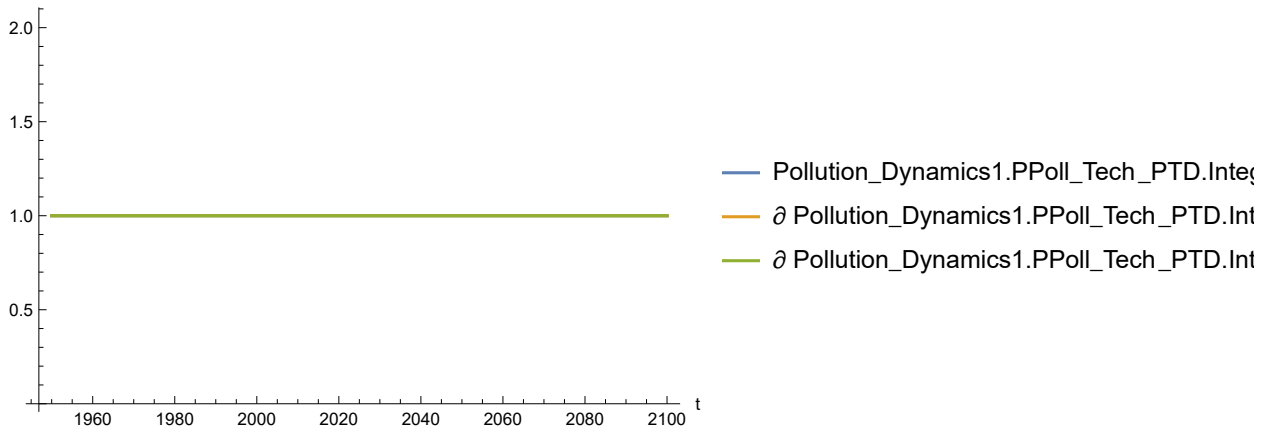
Out[276]=



In[277]:=

```
SystemModelPlot[simsensdata, {"Pollution_Dynamics1.PPoll_Tech_PTD.Integrator1.y",
"Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[7]", percentvar}]
```

Out[277]=

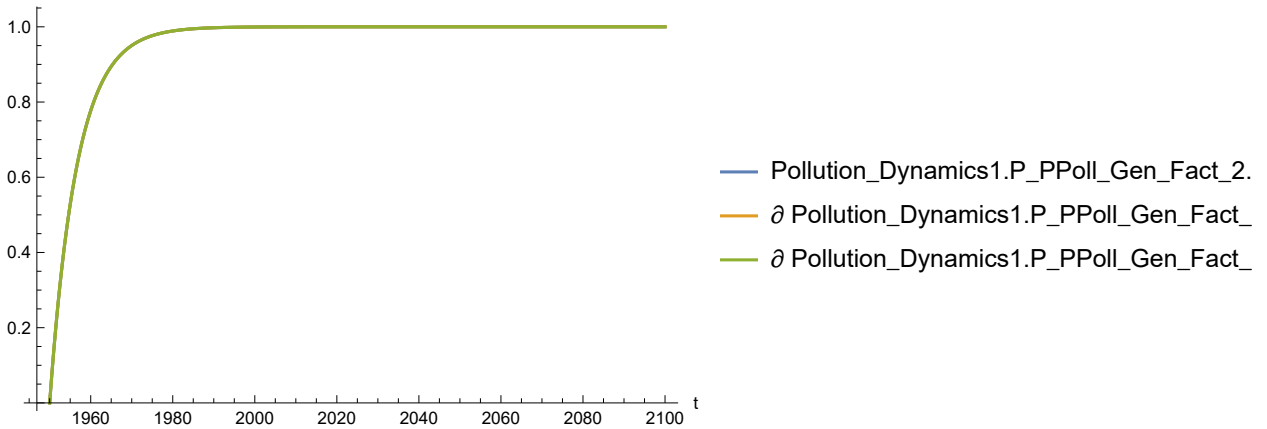


Plot the sensitivity of Pollution_Dynamics1.P_PPoll_Gen_Fact_2.Smooth1.Integrator1.y to Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals.

In[278]:=

```
SystemModelPlot[simsensdata,
  {"Pollution_Dynamics1.P_PPoll_Gen_Fact_2.Smooth1.Integrator1.y",
   "Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[1]", percentvar}]
```

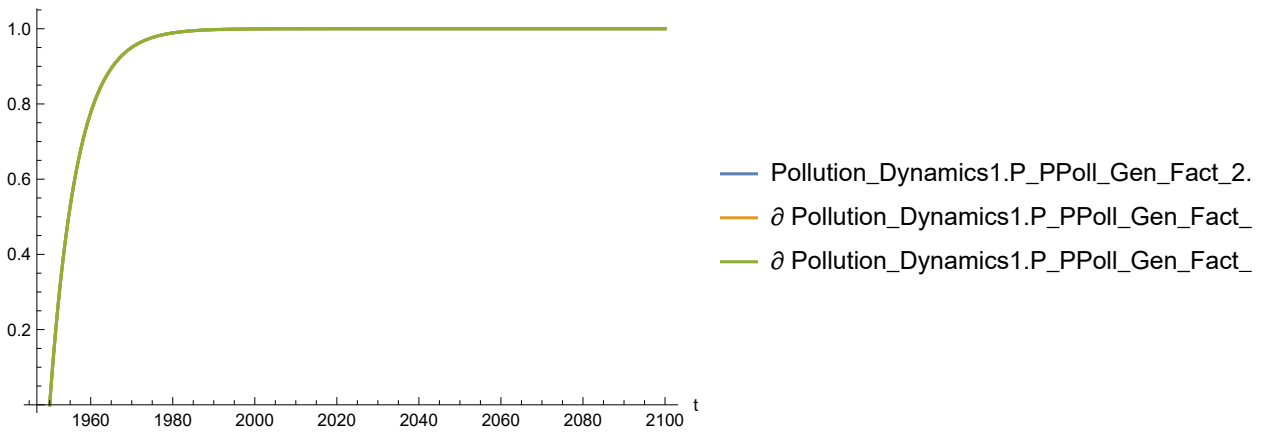
Out[278]=



In[279]:=

```
SystemModelPlot[simsensdata,
  {"Pollution_Dynamics1.P_PPoll_Gen_Fact_2.Smooth1.Integrator1.y",
   "Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[2]", percentvar}]
```

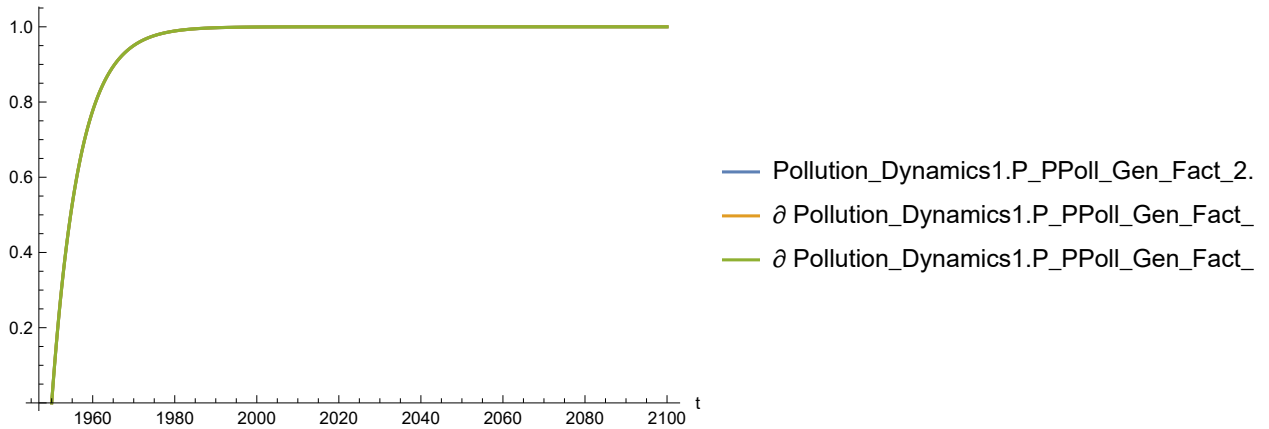
Out[279]=



In[280]:=

```
SystemModelPlot[simsensdata,
  {"Pollution_Dynamics1.P_PPoll_Gen_Fact_2.Smooth1.Integrator1.y",
   "Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[3]", percentvar}]
```

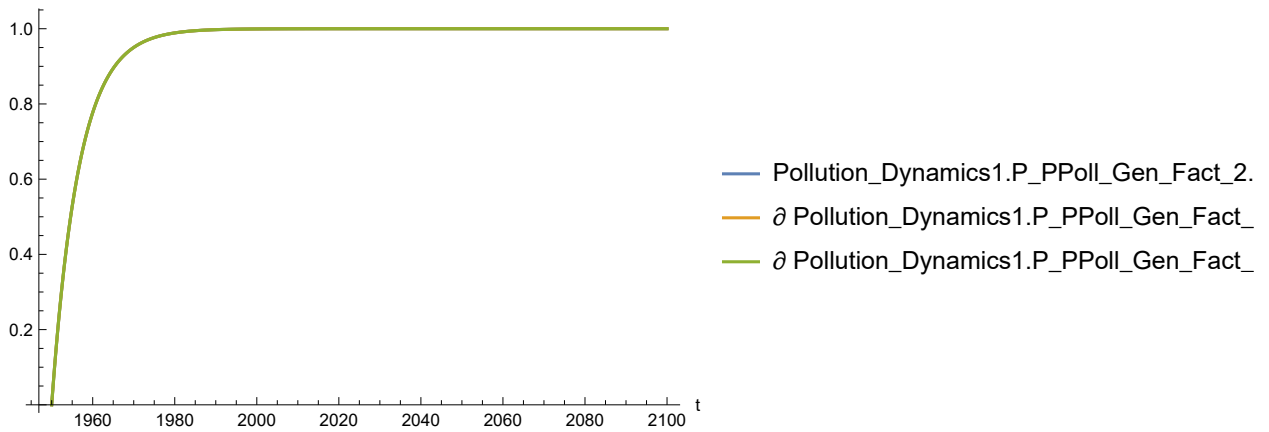
Out[280]=



In[281]:=

```
SystemModelPlot[simsensdata,
  {"Pollution_Dynamics1.P_PPoll_Gen_Fact_2.Smooth1.Integrator1.y",
   "Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[4]", percentvar}]
```

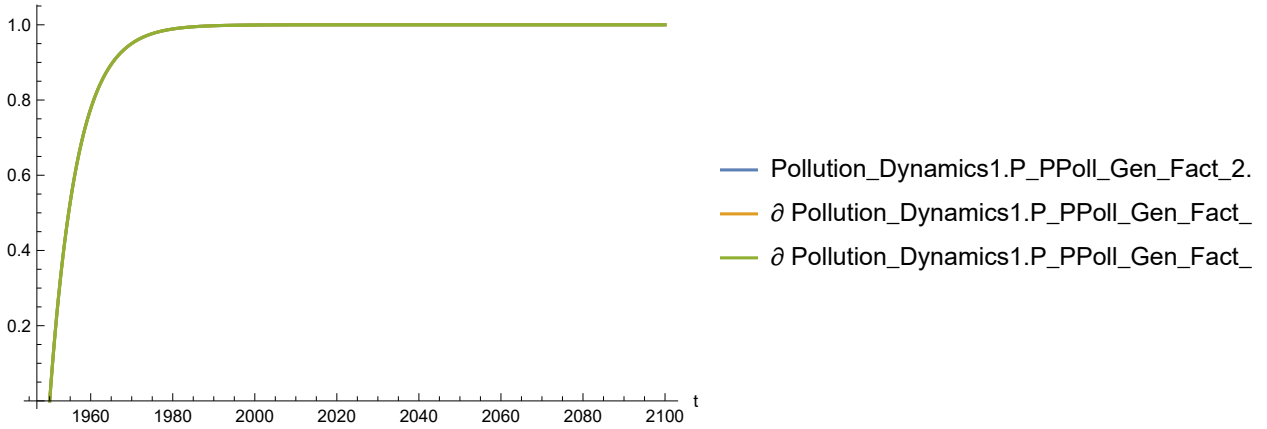
Out[281]=



In[282]:=

```
SystemModelPlot[simsensdata,
  {"Pollution_Dynamics1.P_PPoll_Gen_Fact_2.Smooth1.Integrator1.y",
   "Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[5]", percentvar}]
```

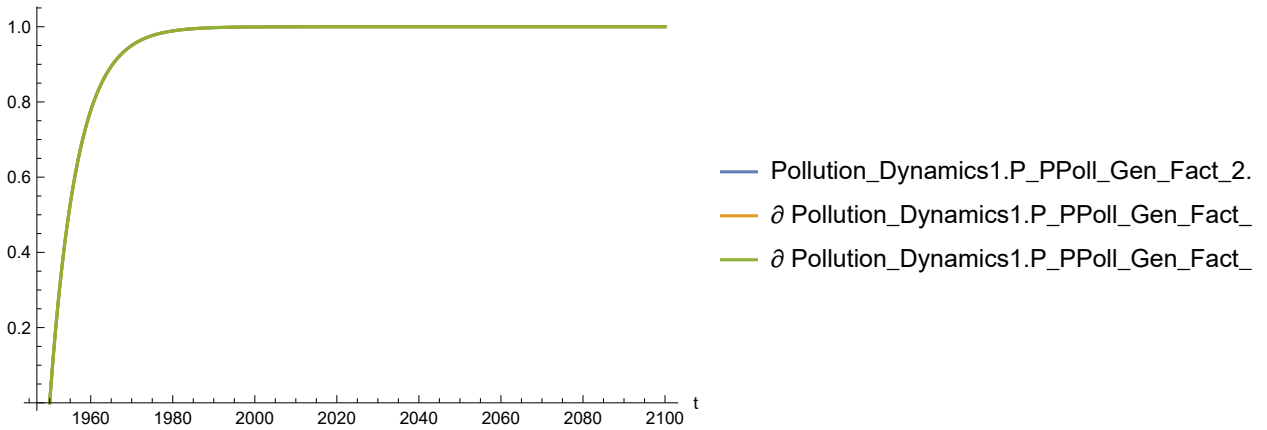
Out[282]=



In[283]:=

```
SystemModelPlot[simsensdata,
  {"Pollution_Dynamics1.P_PPoll_Gen_Fact_2.Smooth1.Integrator1.y",
   "Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[6]", percentvar}]
```

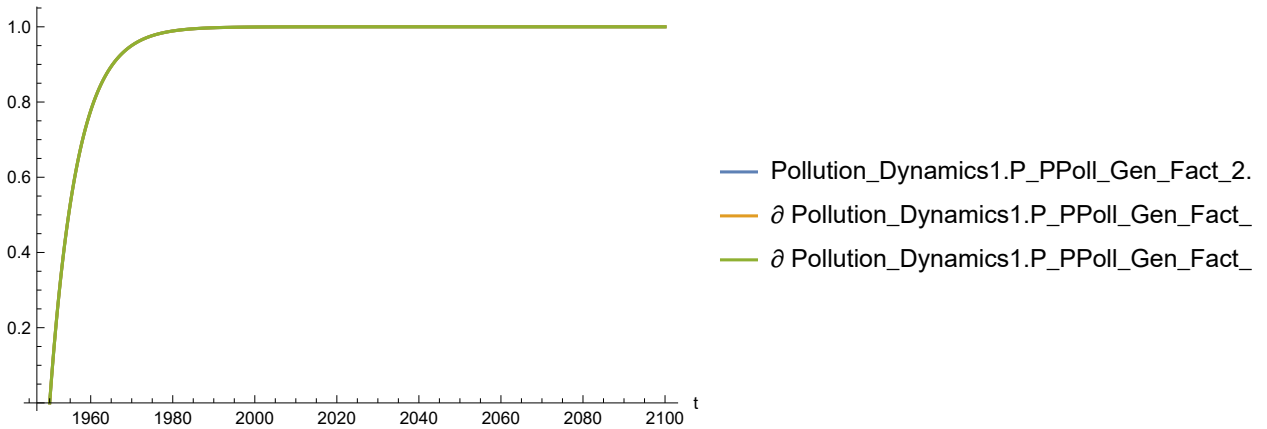
Out[283]=



In[284]:=

```
SystemModelPlot[simsensdata,
  {"Pollution_Dynamics1.P_PPoll_Gen_Fact_2.Smooth1.Integrator1.y",
   "Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[7]", percentvar}]
```

Out[284]=

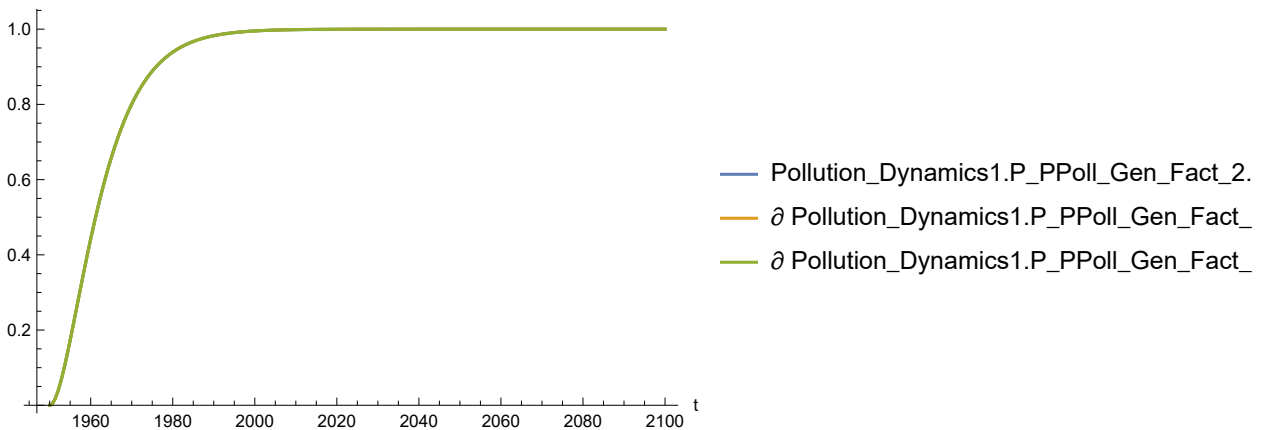


Plot the sensitivity of Pollution_Dynamics1.P_PPoll_Gen_Fact_2.Smooth2.Integrator1.y to Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals.

In[285]:=

```
SystemModelPlot[simsensdata,
  {"Pollution_Dynamics1.P_PPoll_Gen_Fact_2.Smooth2.Integrator1.y",
   "Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[1]", percentvar}]
```

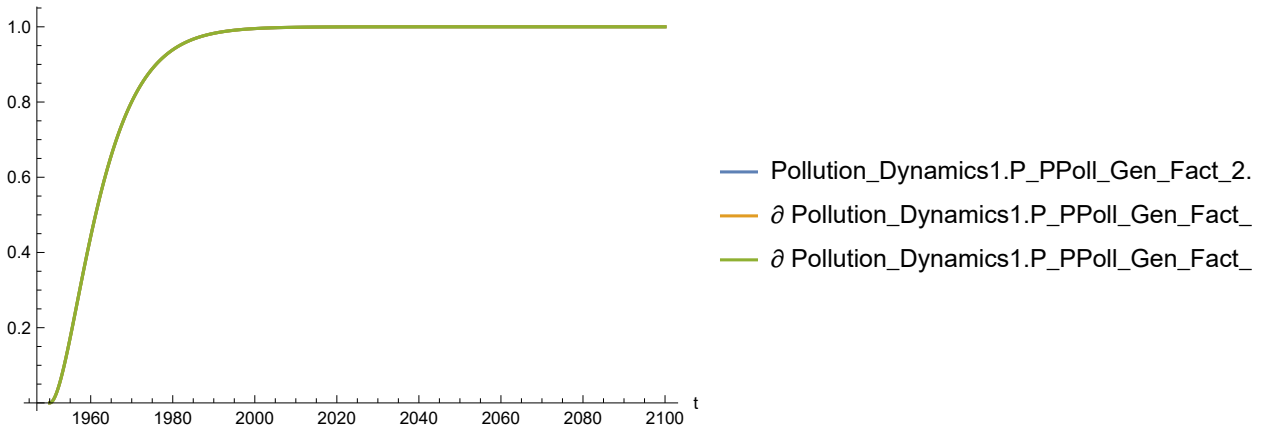
Out[285]=



In[286]:=

```
SystemModelPlot[simsensdata,
  {"Pollution_Dynamics1.P_PPoll_Gen_Fact_2.Smooth2.Integrator1.y",
   "Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[2]", percentvar}]
```

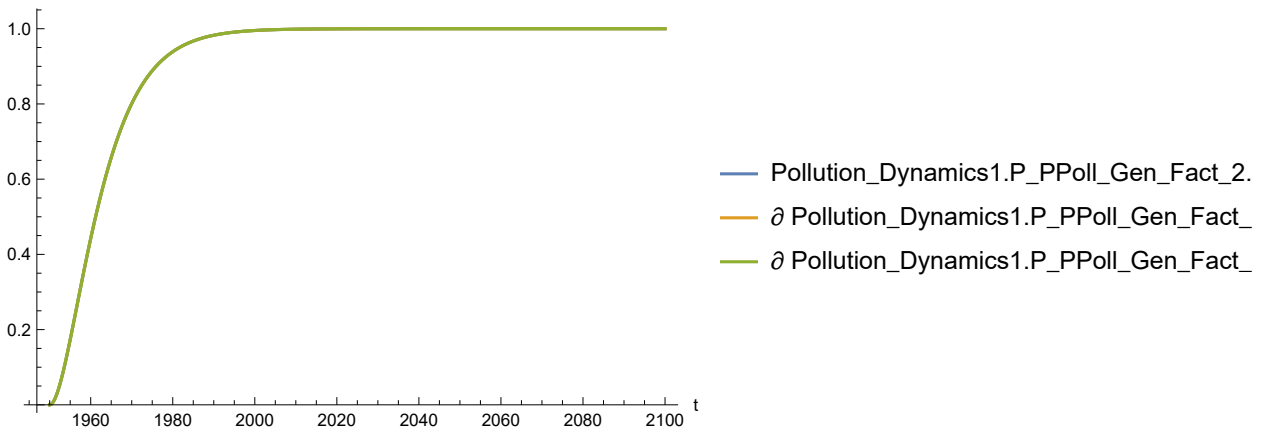
Out[286]=



In[287]:=

```
SystemModelPlot[simsensdata,
  {"Pollution_Dynamics1.P_PPoll_Gen_Fact_2.Smooth2.Integrator1.y",
   "Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[3]", percentvar}]
```

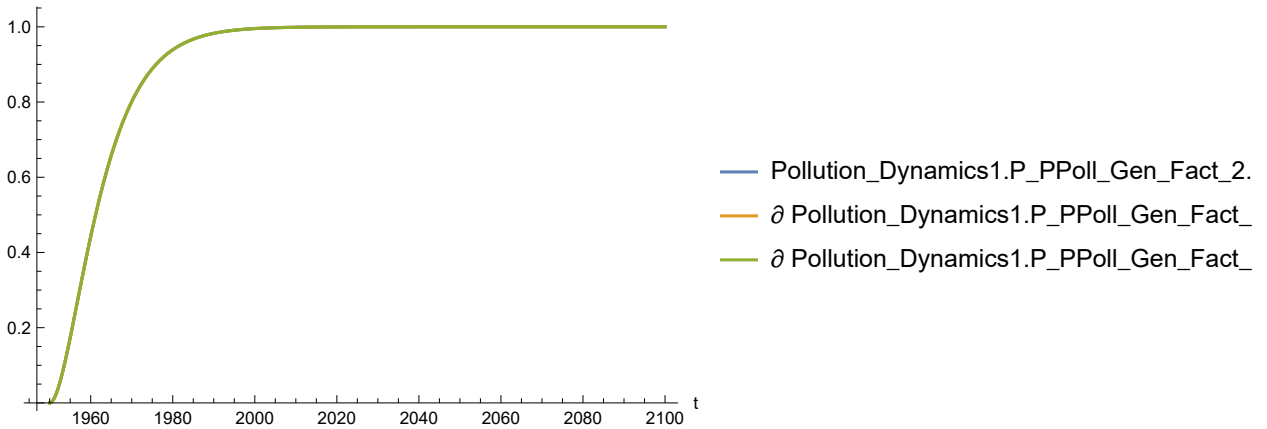
Out[287]=



In[288]:=

```
SystemModelPlot[simsensdata,
  {"Pollution_Dynamics1.P_PPoll_Gen_Fact_2.Smooth2.Integrator1.y",
   "Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[4]", percentvar}]
```

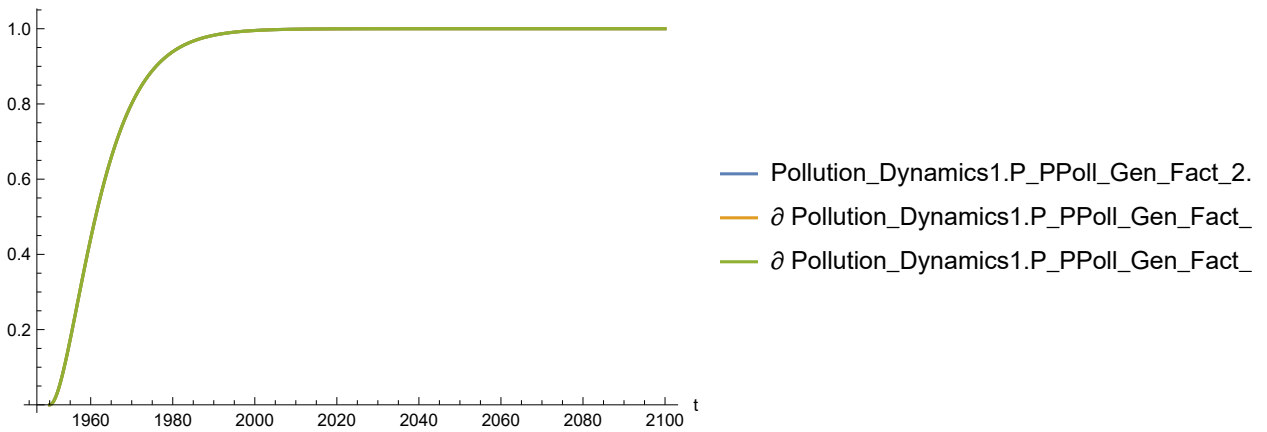
Out[288]=



In[289]:=

```
SystemModelPlot[simsensdata,
  {"Pollution_Dynamics1.P_PPoll_Gen_Fact_2.Smooth2.Integrator1.y",
   "Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[5]", percentvar}]
```

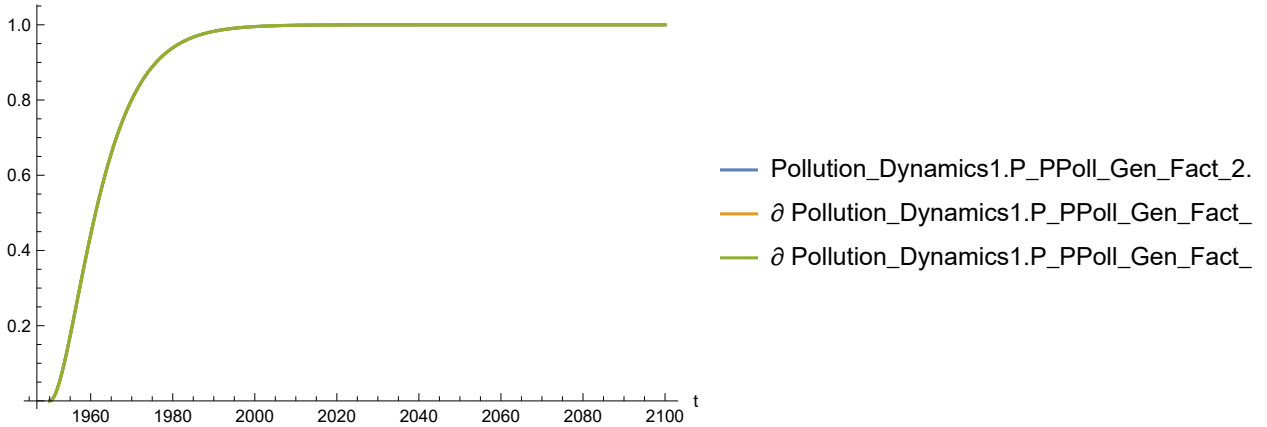
Out[289]=



In[290]:=

```
SystemModelPlot[simsensdata,
  {"Pollution_Dynamics1.P_PPoll_Gen_Fact_2.Smooth2.Integrator1.y",
   "Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[6]", percentvar}]
```

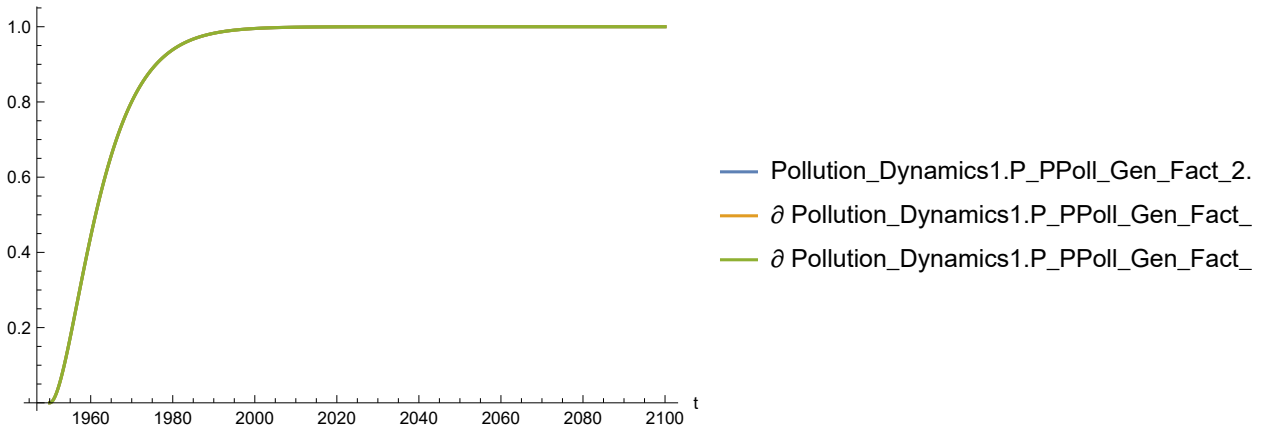
Out[290]=



In[291]:=

```
SystemModelPlot[simsensdata,
  {"Pollution_Dynamics1.P_PPoll_Gen_Fact_2.Smooth2.Integrator1.y",
   "Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[7]", percentvar}]
```

Out[291]=

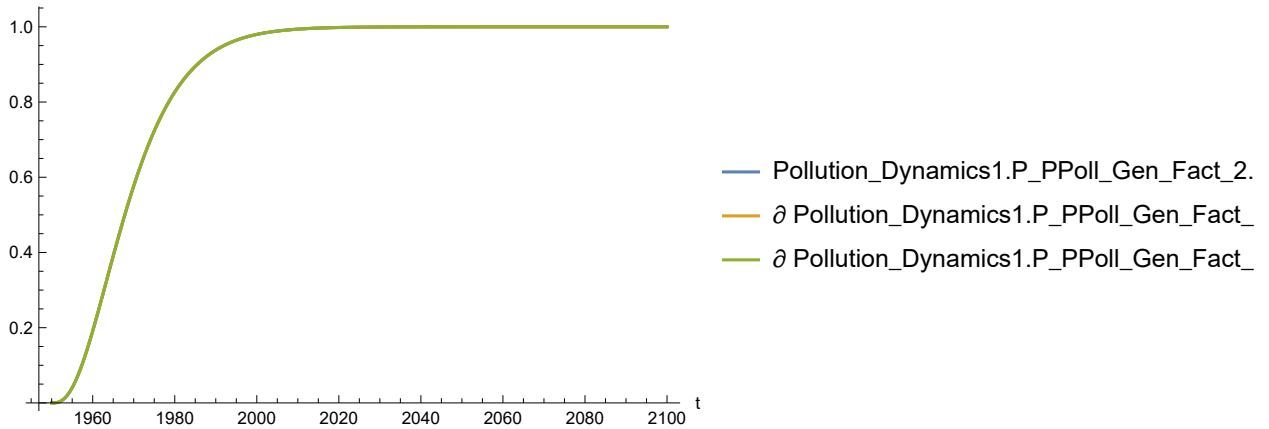


Plot the sensitivity of Pollution_Dynamics1.P_PPoll_Gen_Fact_2.Smooth3.Integrator1.y to Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals.

In[292]:=

```
SystemModelPlot[simsensdata,
  {"Pollution_Dynamics1.P_PPoll_Gen_Fact_2.Smooth3.Integrator1.y",
   "Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[1]", percentvar}]
```

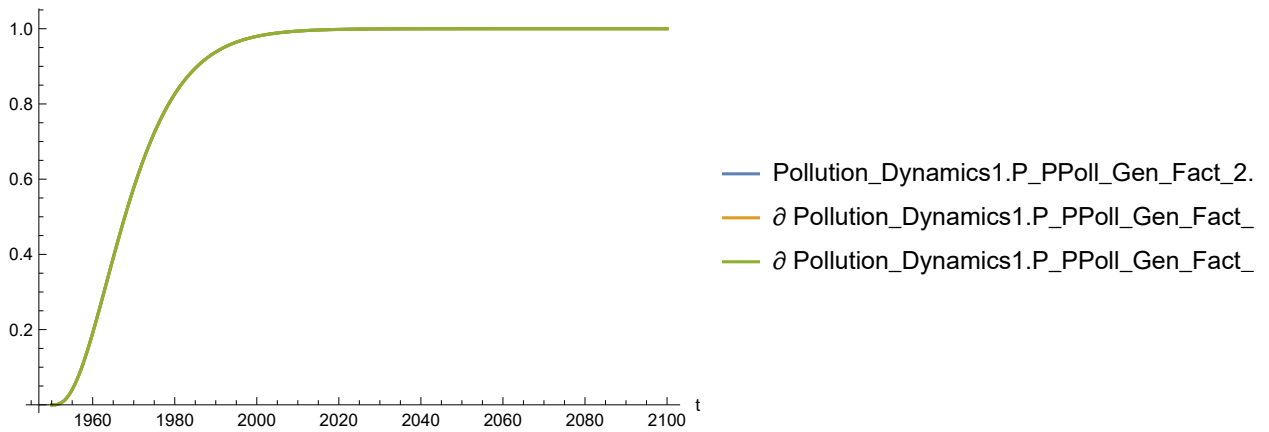
Out[292]=



In[293]:=

```
SystemModelPlot[simsensdata,
  {"Pollution_Dynamics1.P_PPoll_Gen_Fact_2.Smooth3.Integrator1.y",
   "Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[2]", percentvar}]
```

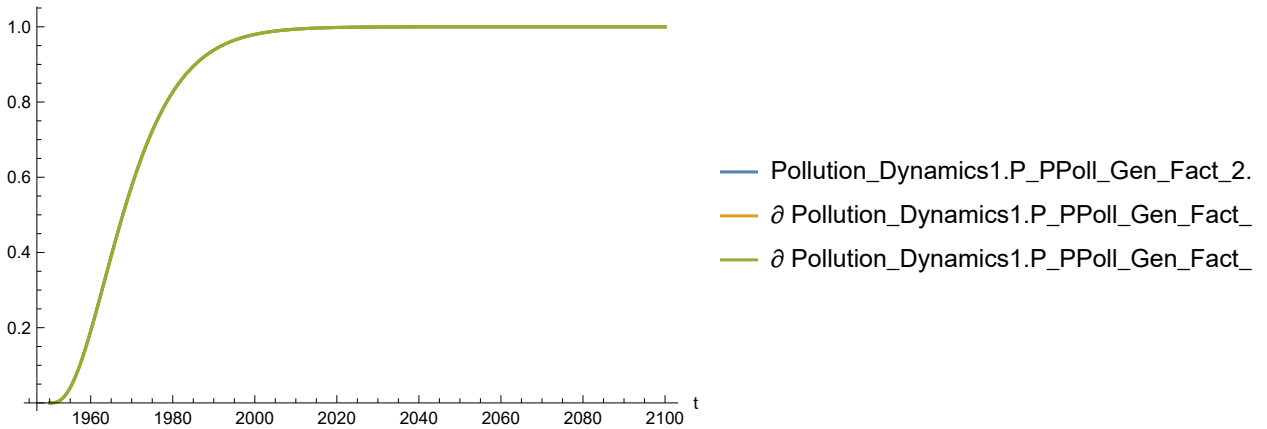
Out[293]=



In[294]:=

```
SystemModelPlot[simsensdata,
  {"Pollution_Dynamics1.P_PPoll_Gen_Fact_2.Smooth3.Integrator1.y",
   "Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[3]", percentvar}]
```

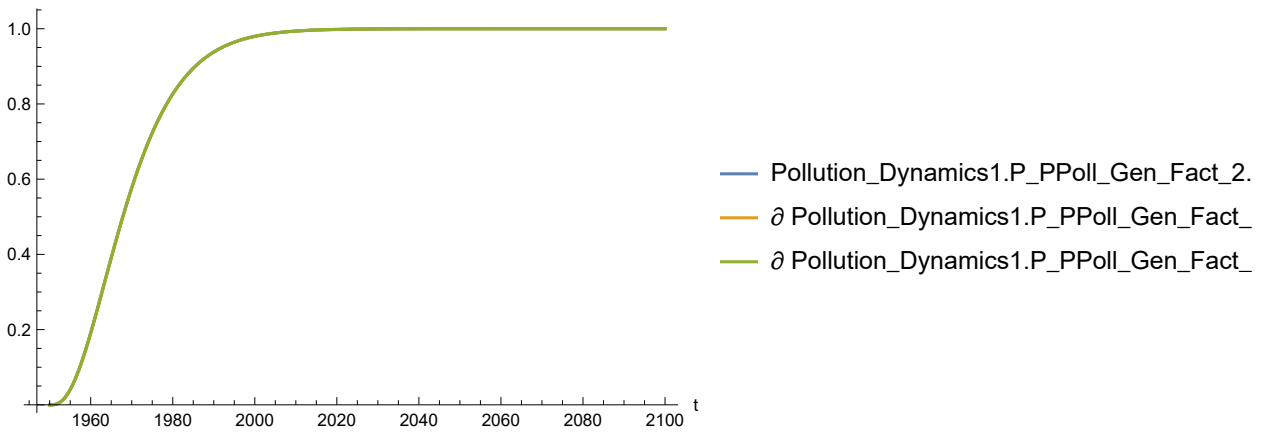
Out[294]=



In[295]:=

```
SystemModelPlot[simsensdata,
  {"Pollution_Dynamics1.P_PPoll_Gen_Fact_2.Smooth3.Integrator1.y",
   "Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[4]", percentvar}]
```

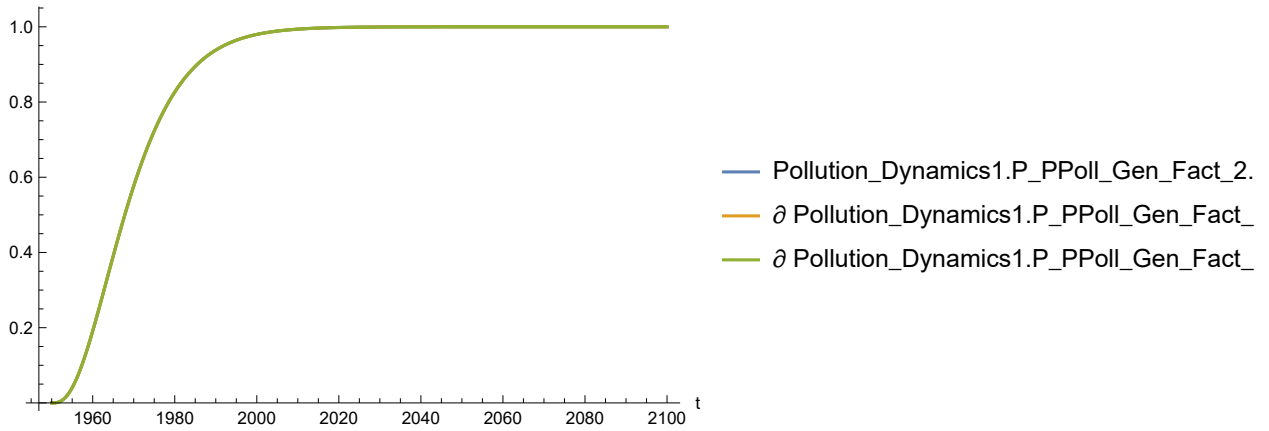
Out[295]=



In[296]:=

```
SystemModelPlot[simsensdata,
  {"Pollution_Dynamics1.P_PPoll_Gen_Fact_2.Smooth3.Integrator1.y",
   "Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[5]", percentvar}]
```

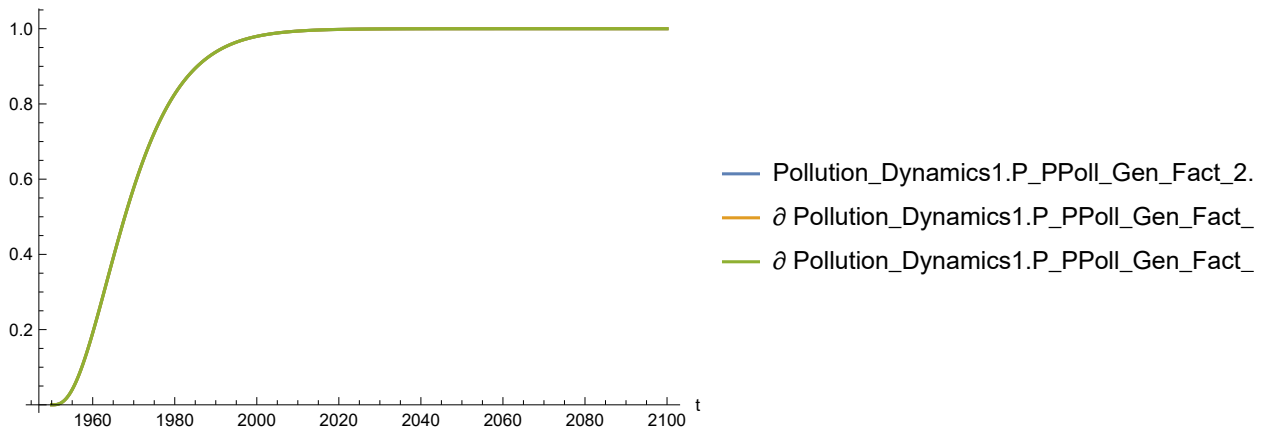
Out[296]=



In[297]:=

```
SystemModelPlot[simsensdata,
  {"Pollution_Dynamics1.P_PPoll_Gen_Fact_2.Smooth3.Integrator1.y",
   "Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[6]", percentvar}]
```

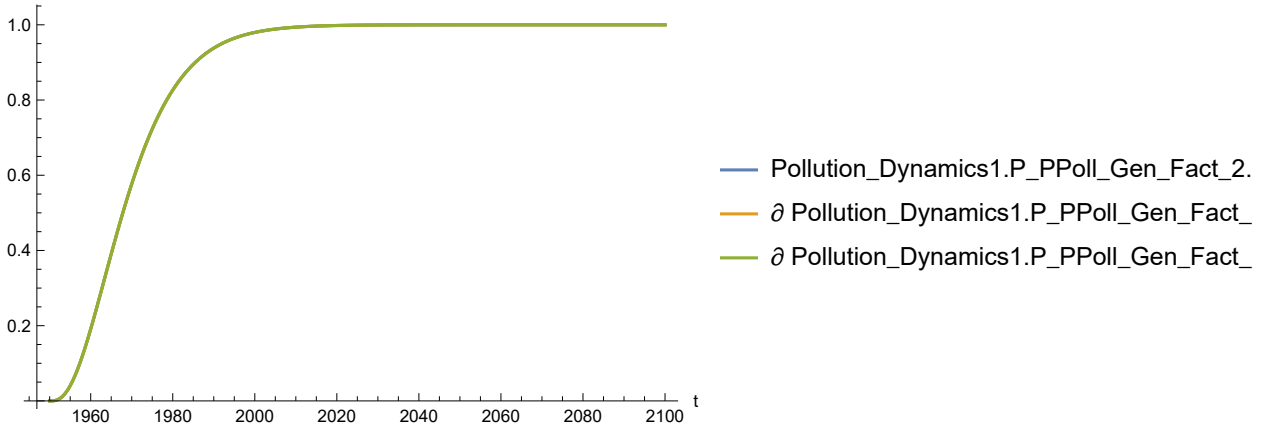
Out[297]=



In[298]:=

```
SystemModelPlot[simsensdata,
  {"Pollution_Dynamics1.P_PPoll_Gen_Fact_2.Smooth3.Integrator1.y",
   "Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[7]", percentvar}]
```

Out[298]=

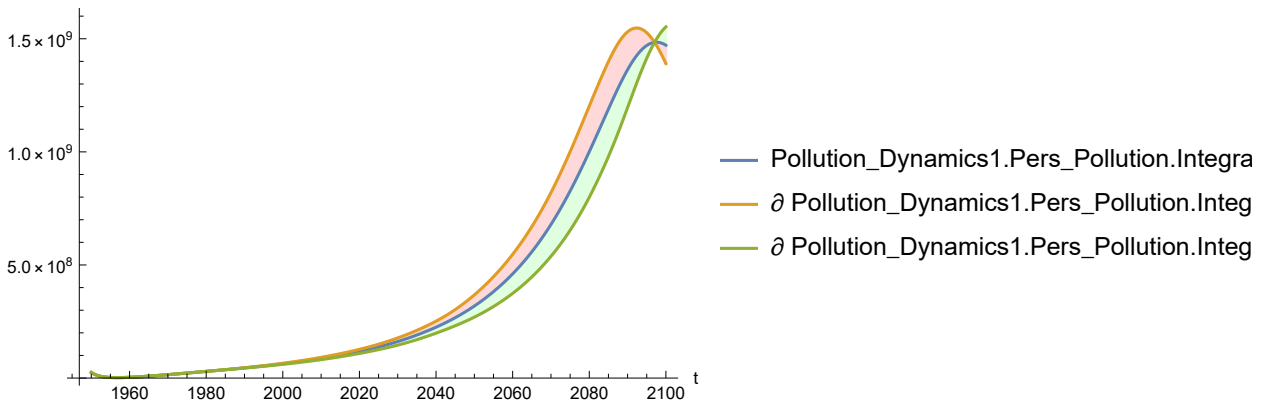


Plot the sensitivity of Pollution_Dynamics1.Pers_Pollution.Integrator1.y to Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals.

In[299]:=

```
SystemModelPlot[simsensdata, {"Pollution_Dynamics1.Pers_Pollution.Integrator1.y",
  "Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[1]", percentvar}]
```

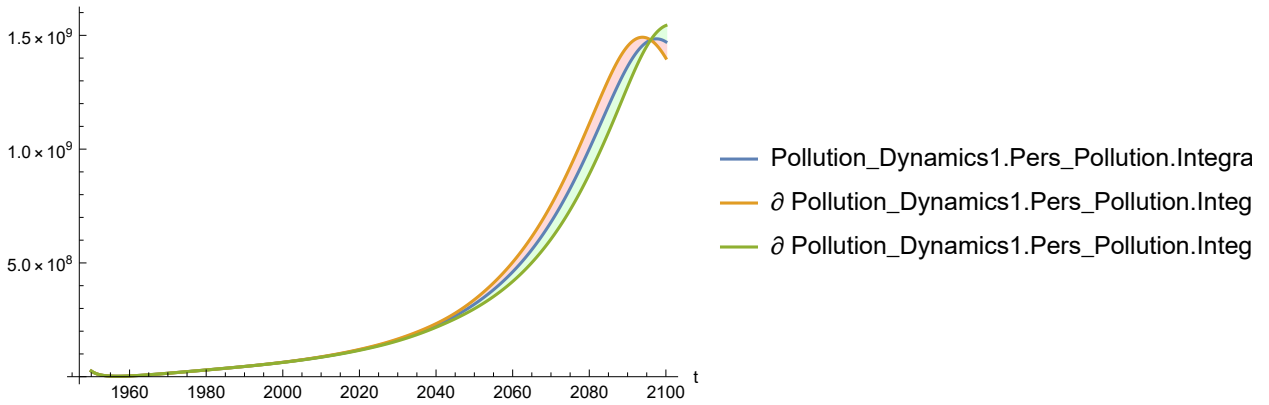
Out[299]=



In[300]:=

```
SystemModelPlot[simsensdata, {"Pollution_Dynamics1.Pers_Pollution.Integrator1.y",
"Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[2]", percentvar}]
```

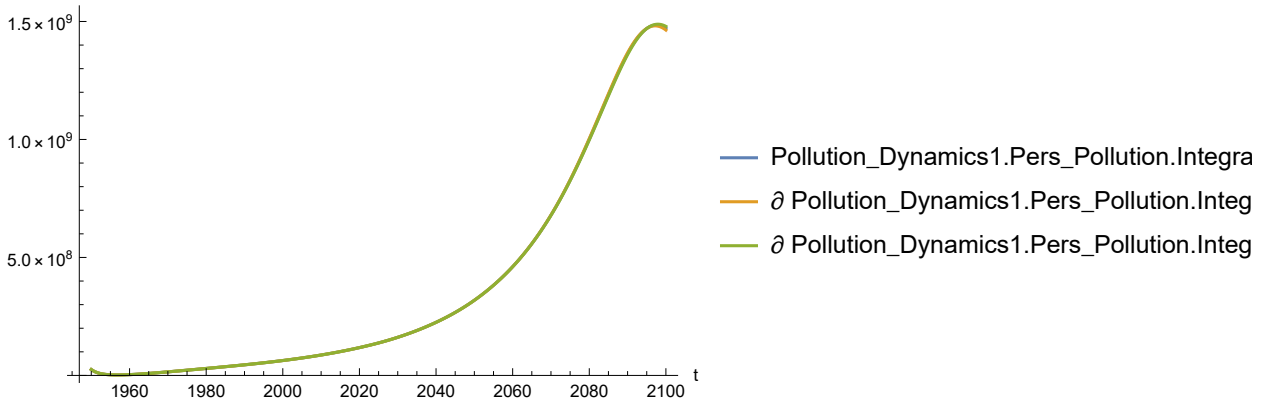
Out[300]=



In[301]:=

```
SystemModelPlot[simsensdata, {"Pollution_Dynamics1.Pers_Pollution.Integrator1.y",
"Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[3]", percentvar}]
```

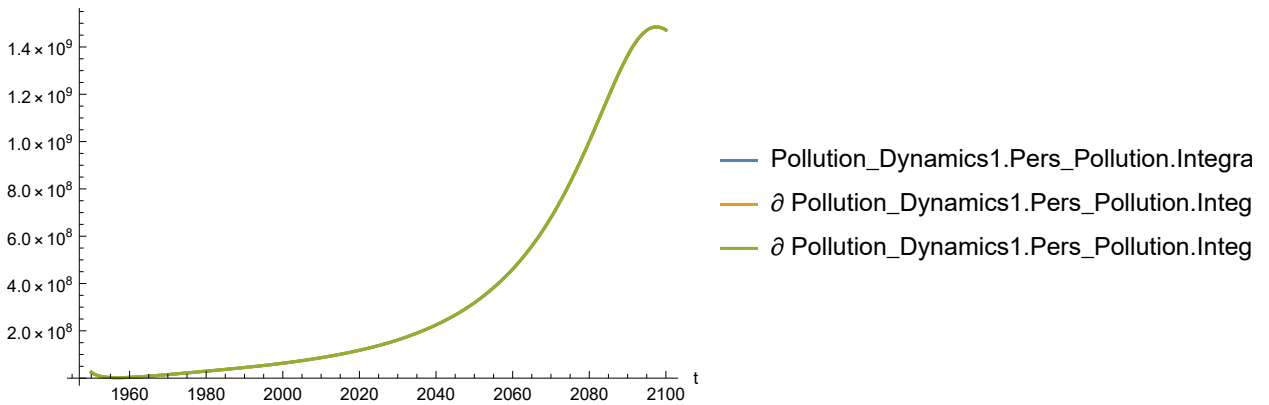
Out[301]=



In[302]:=

```
SystemModelPlot[simsensdata, {"Pollution_Dynamics1.Pers_Pollution.Integrator1.y",
"Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[4]", percentvar}]
```

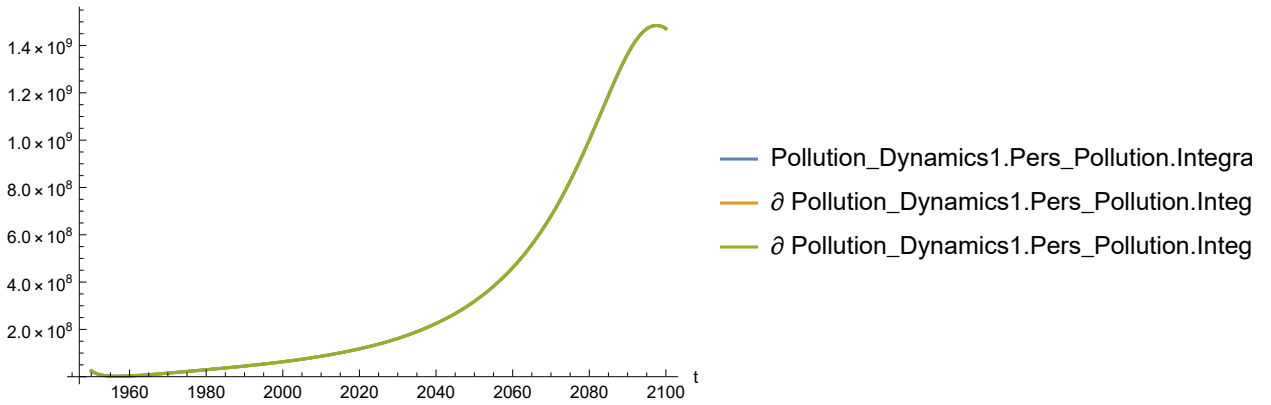
Out[302]=



In[303]:=

```
SystemModelPlot[simsensdata, {"Pollution_Dynamics1.Pers_Pollution.Integrator1.y",
"Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[5]", percentvar}]
```

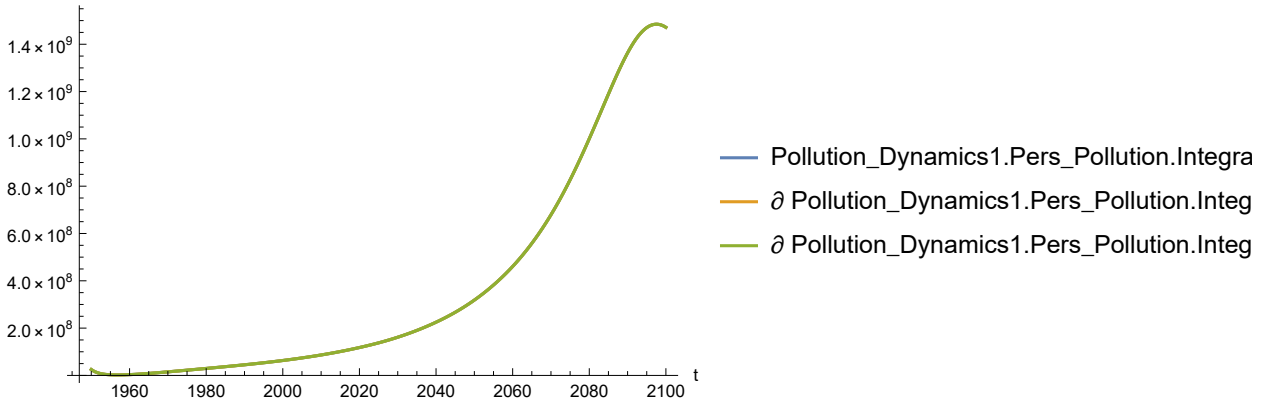
Out[303]=



In[304]:=

```
SystemModelPlot[simsensdata, {"Pollution_Dynamics1.Pers_Pollution.Integrator1.y",
"Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[6]", percentvar}]
```

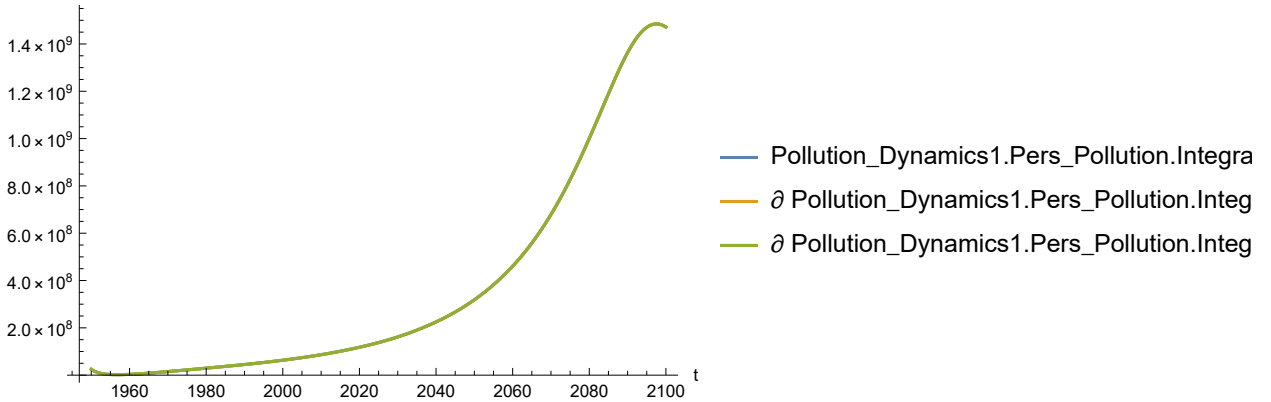
Out[304]=



In[305]:=

```
SystemModelPlot[simsensdata, {"Pollution_Dynamics1.Pers_Pollution.Integrator1.y",
"Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[7]", percentvar}]
```

Out[305]=

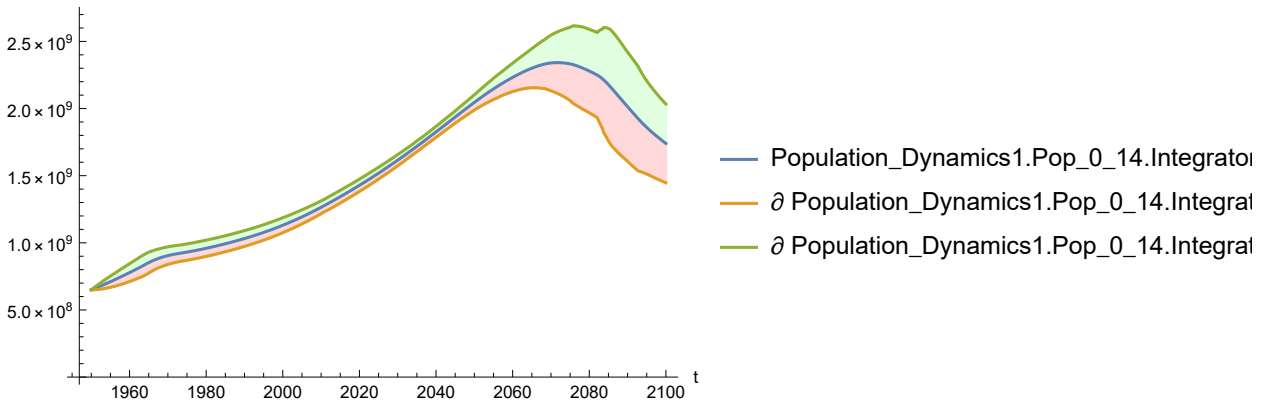


Plot sensitivity of population to **Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals**. In World3, population is divided into four subpopulations by age: 0-14 years, 15-44 years, 45-64 years, and 65 year and over.

In[306]:=

```
SystemModelPlot[simsensdata, {"Population_Dynamics1.Pop_0_14.Integrator1.y",
"Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[1]", percentvar}]
```

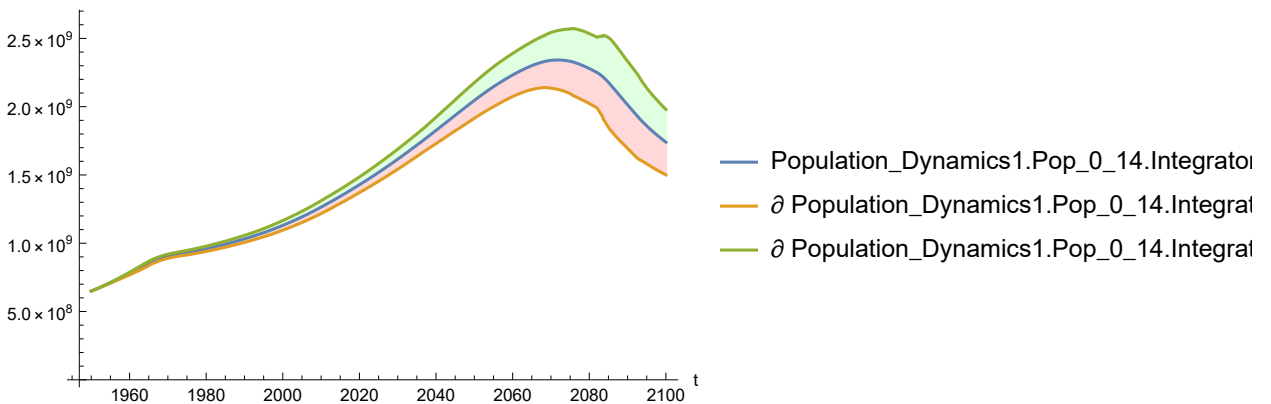
Out[306]=



In[307]:=

```
SystemModelPlot[simsensdata, {"Population_Dynamics1.Pop_0_14.Integrator1.y",
"Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[2]", percentvar}]
```

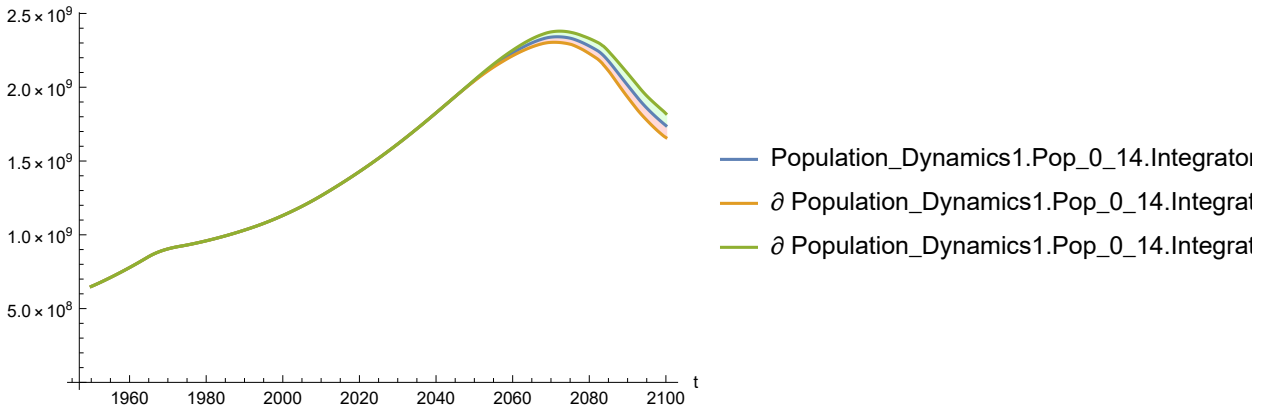
Out[307]=



In[308]:=

```
SystemModelPlot[simsensdata, {"Population_Dynamics1.Pop_0_14.Integrator1.y",
"Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[3]", percentvar}]
```

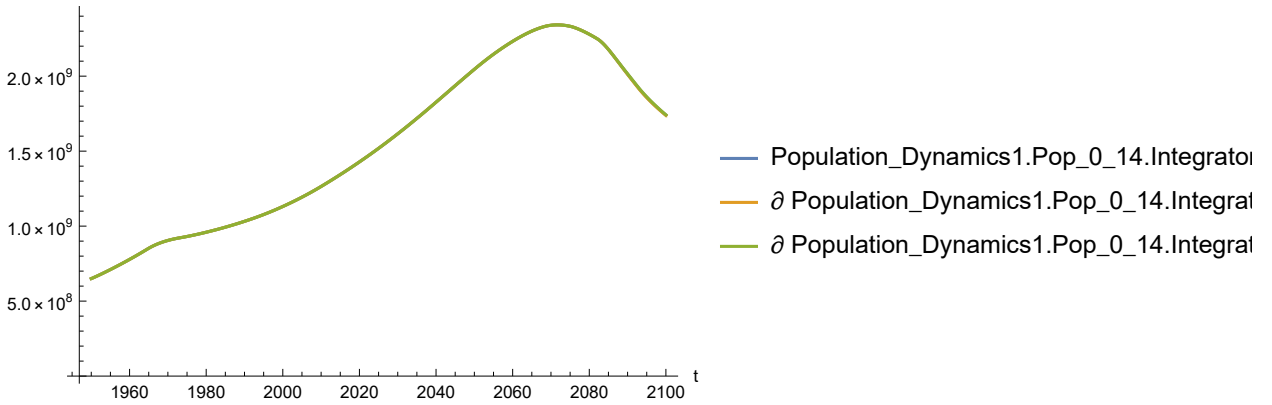
Out[308]=



In[309]:=

```
SystemModelPlot[simsensdata, {"Population_Dynamics1.Pop_0_14.Integrator1.y",
"Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[4]", percentvar}]
```

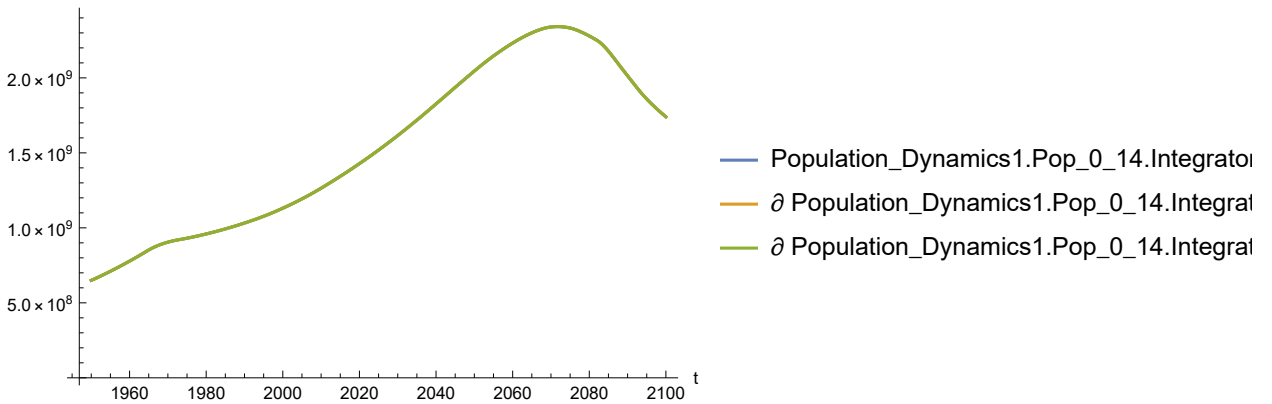
Out[309]=



In[310]:=

```
SystemModelPlot[simsensdata, {"Population_Dynamics1.Pop_0_14.Integrator1.y",
"Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[5]", percentvar}]
```

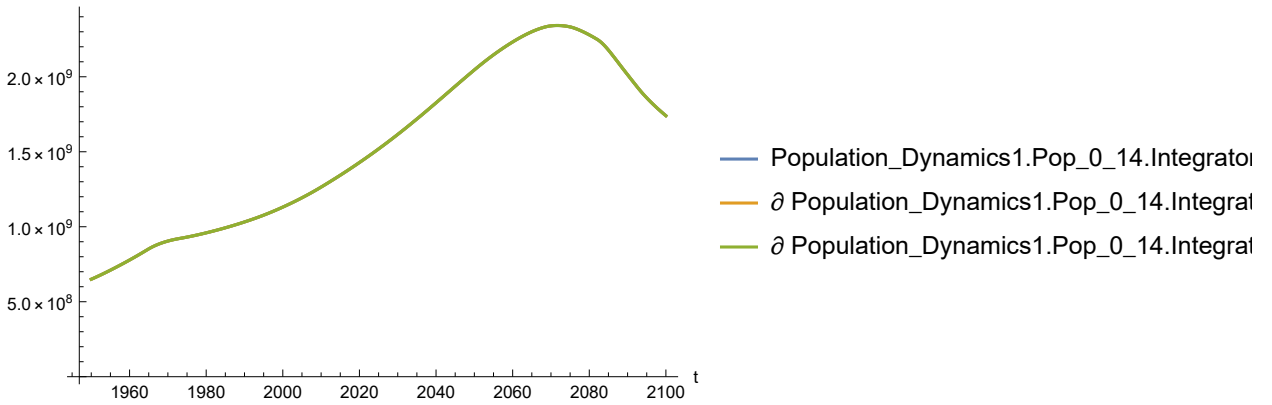
Out[310]=



In[311]:=

```
SystemModelPlot[simsensdata, {"Population_Dynamics1.Pop_0_14.Integrator1.y",
"Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[6]", percentvar}]
```

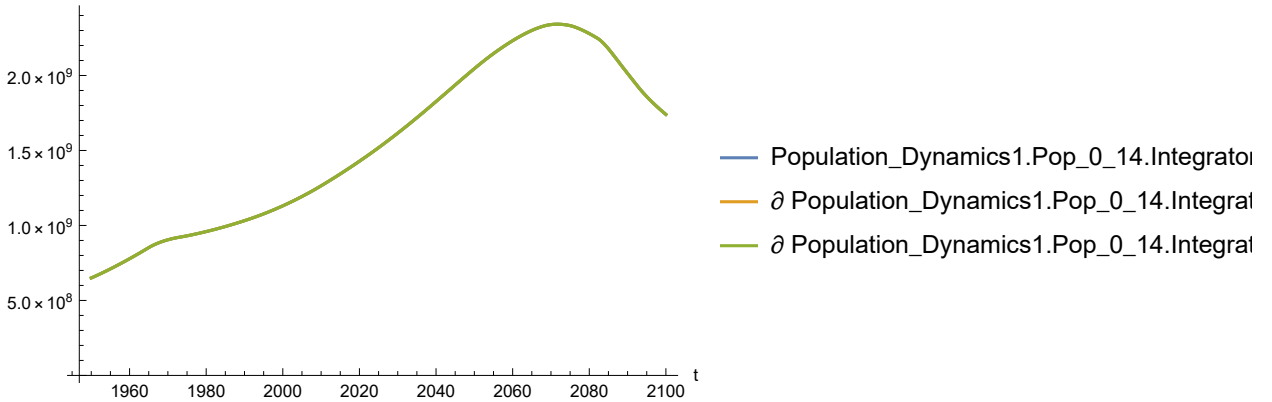
Out[311]=



In[312]:=

```
SystemModelPlot[simsensdata, {"Population_Dynamics1.Pop_0_14.Integrator1.y",
"Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[7]", percentvar}]
```

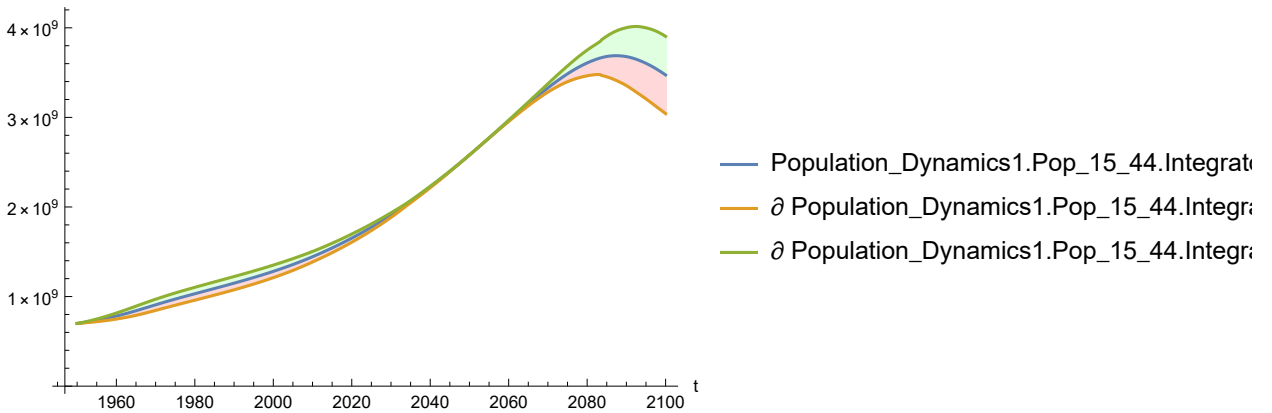
Out[312]=



In[313]:=

```
SystemModelPlot[simsensdata, {"Population_Dynamics1.Pop_15_44.Integrator1.y",
"Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[1]", percentvar}]
```

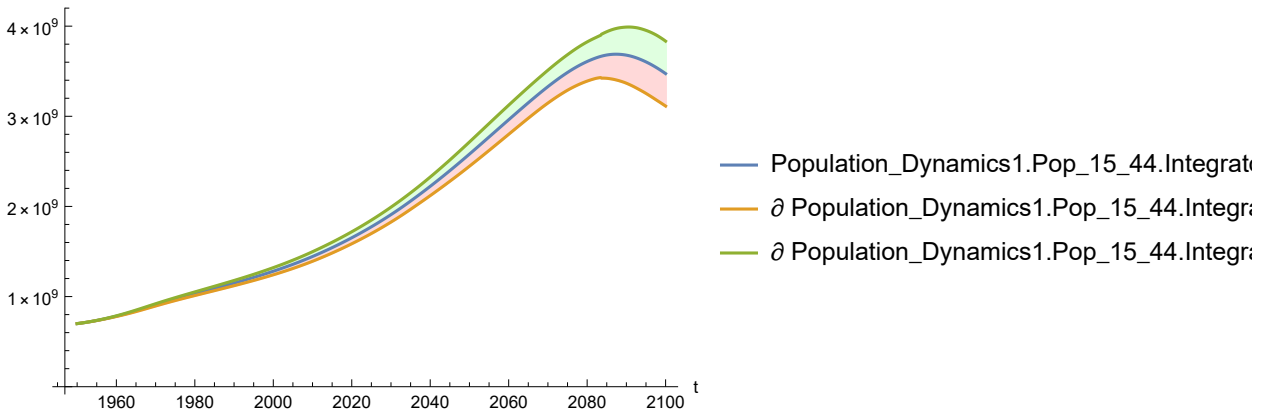
Out[313]=



In[314]:=

```
SystemModelPlot[simsensdata, {"Population_Dynamics1.Pop_15_44.Integrator1.y",
"Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[2]", percentvar}]
```

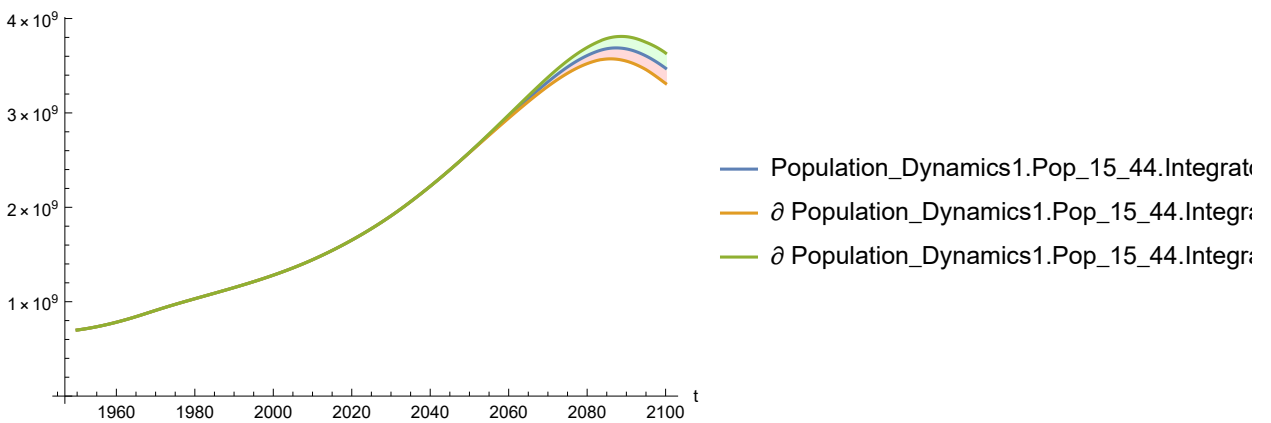
Out[314]=



In[315]:=

```
SystemModelPlot[simsensdata, {"Population_Dynamics1.Pop_15_44.Integrator1.y",
"Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[3]", percentvar}]
```

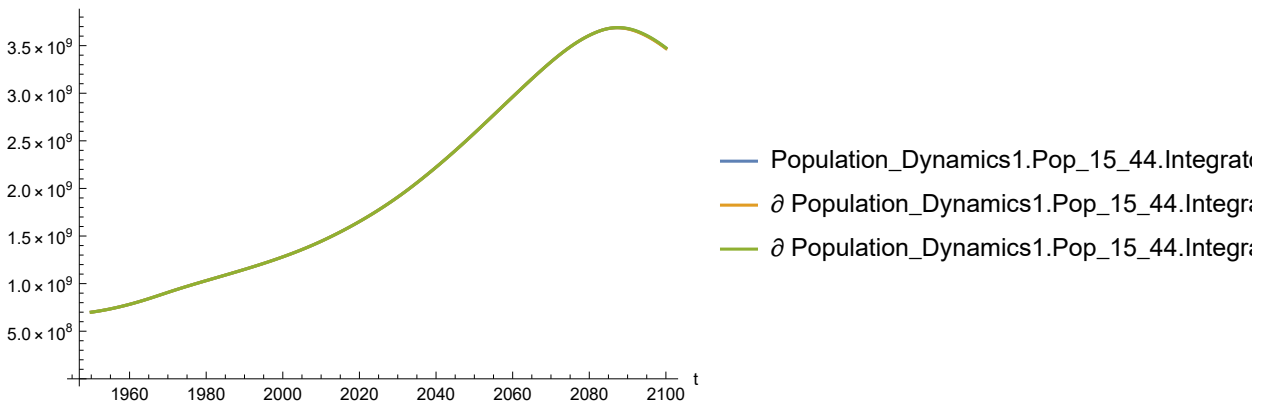
Out[315]=



In[316]:=

```
SystemModelPlot[simsensdata, {"Population_Dynamics1.Pop_15_44.Integrator1.y",
"Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[4]", percentvar}]
```

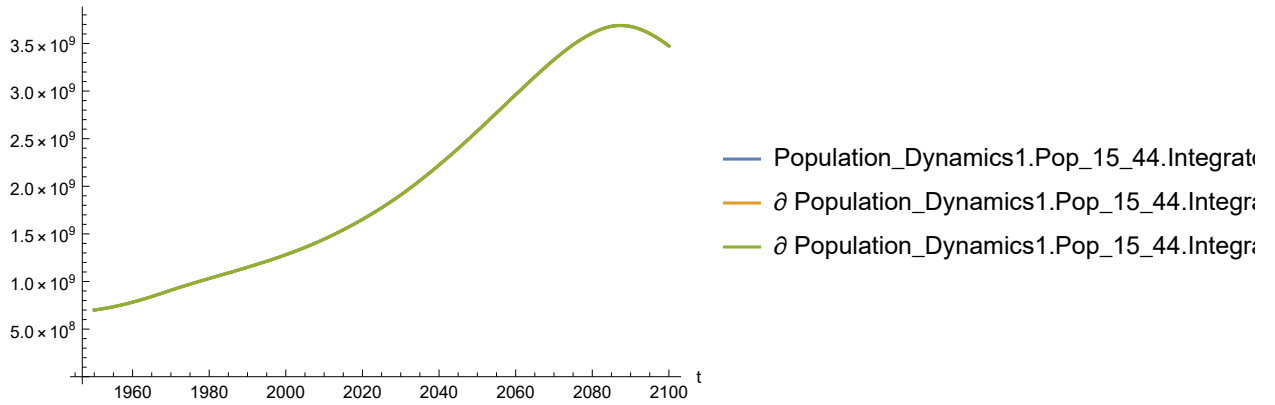
Out[316]=



In[317]:=

```
SystemModelPlot[simsensdata, {"Population_Dynamics1.Pop_15_44.Integrator1.y",
"Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[5]", percentvar}]}
```

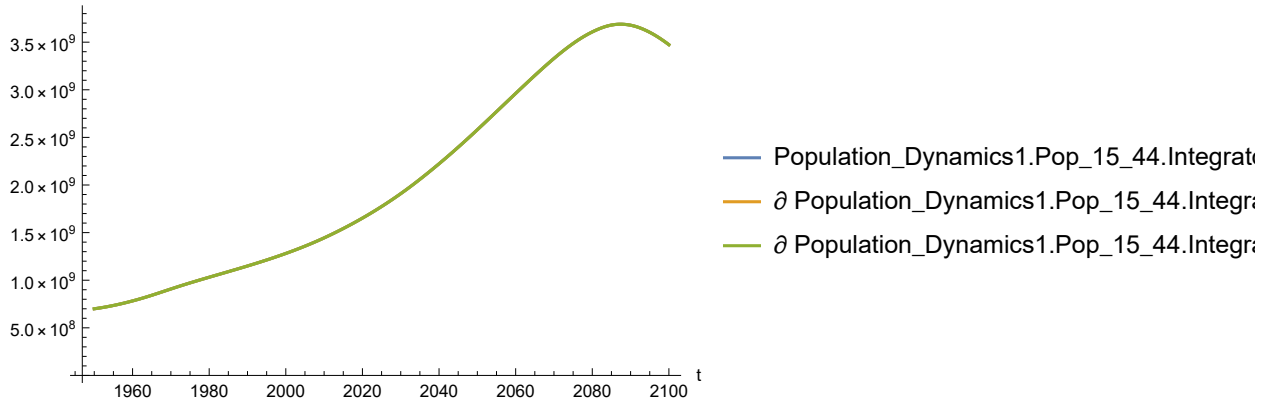
Out[317]:=



In[318]:=

```
SystemModelPlot[simsensdata, {"Population_Dynamics1.Pop_15_44.Integrator1.y",
"Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[6]", percentvar}]}
```

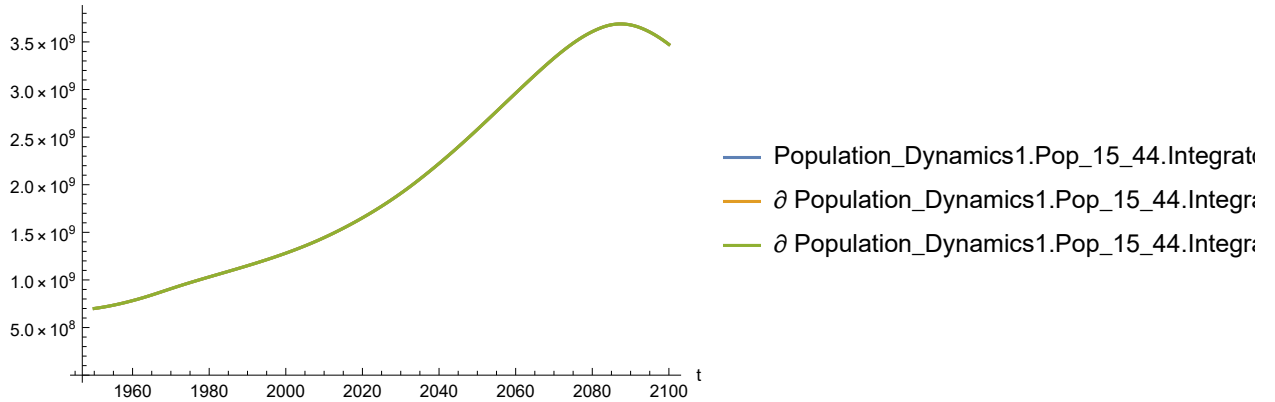
Out[318]:=



In[319]:=

```
SystemModelPlot[simsensdata, {"Population_Dynamics1.Pop_15_44.Integrator1.y",
"Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[7]", percentvar}]}
```

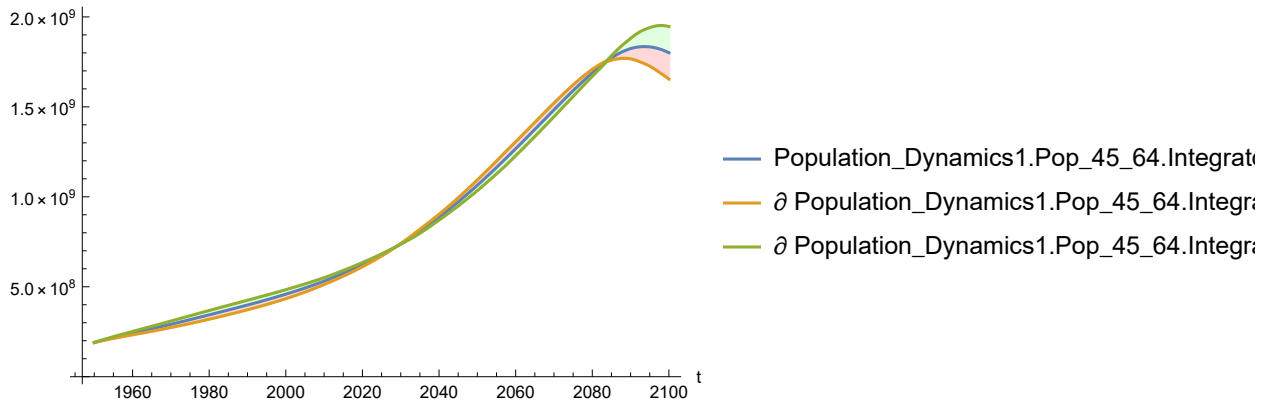
Out[319]:=



In[320]:=

```
SystemModelPlot[simsensdata, {"Population_Dynamics1.Pop_45_64.Integrator1.y",
"Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[1]", percentvar}]
```

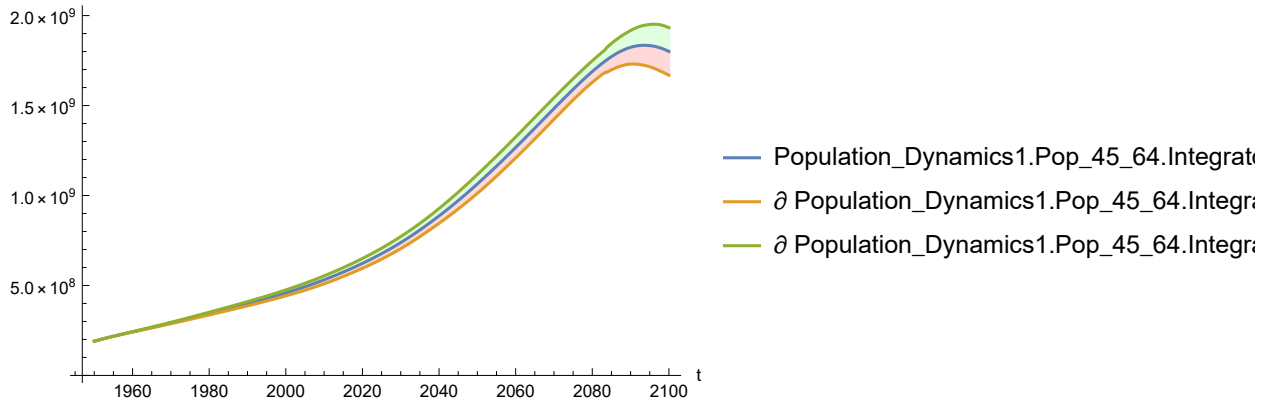
Out[320]=



In[321]:=

```
SystemModelPlot[simsensdata, {"Population_Dynamics1.Pop_45_64.Integrator1.y",
"Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[2]", percentvar}]
```

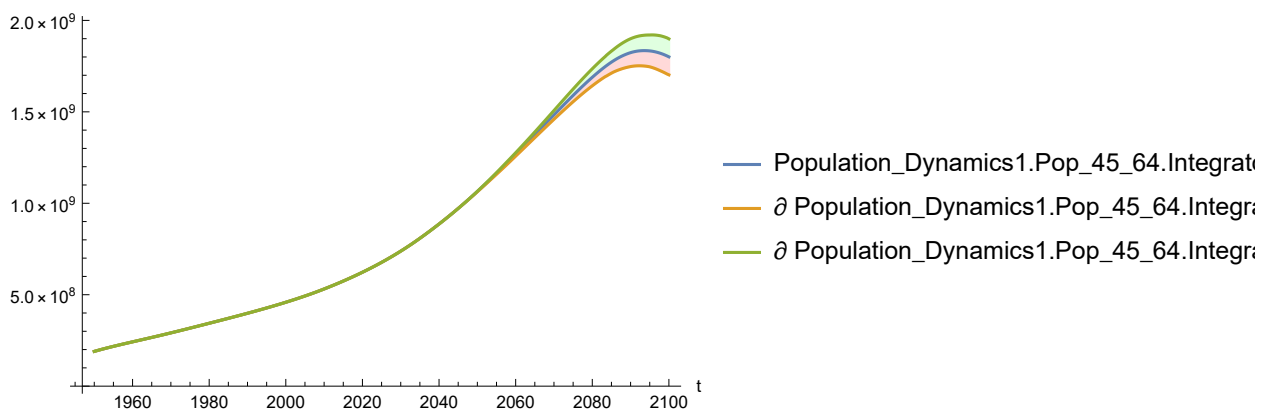
Out[321]=



In[322]:=

```
SystemModelPlot[simsensdata, {"Population_Dynamics1.Pop_45_64.Integrator1.y",
"Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[3]", percentvar}]
```

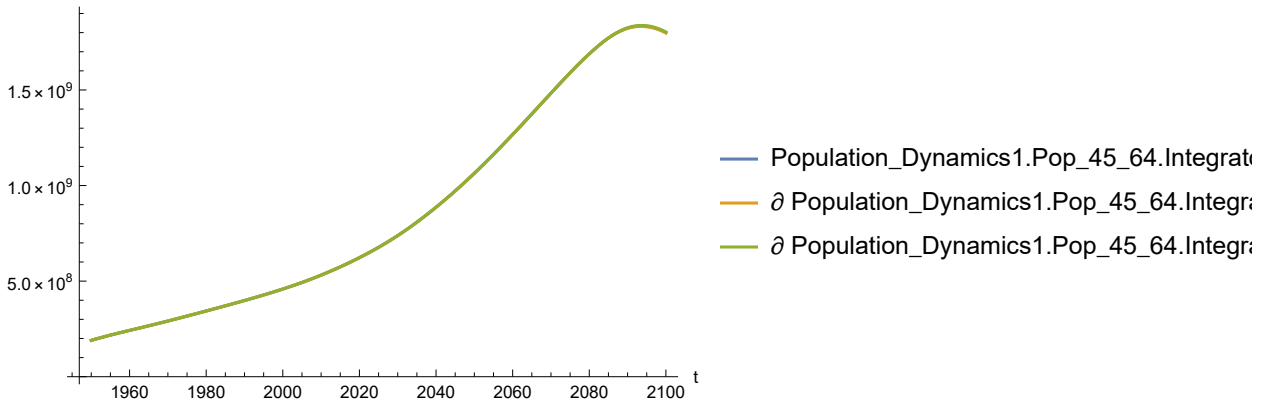
Out[322]=



In[323]:=

```
SystemModelPlot[simsensdata, {"Population_Dynamics1.Pop_45_64.Integrator1.y",
"Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[4]", percentvar}]
```

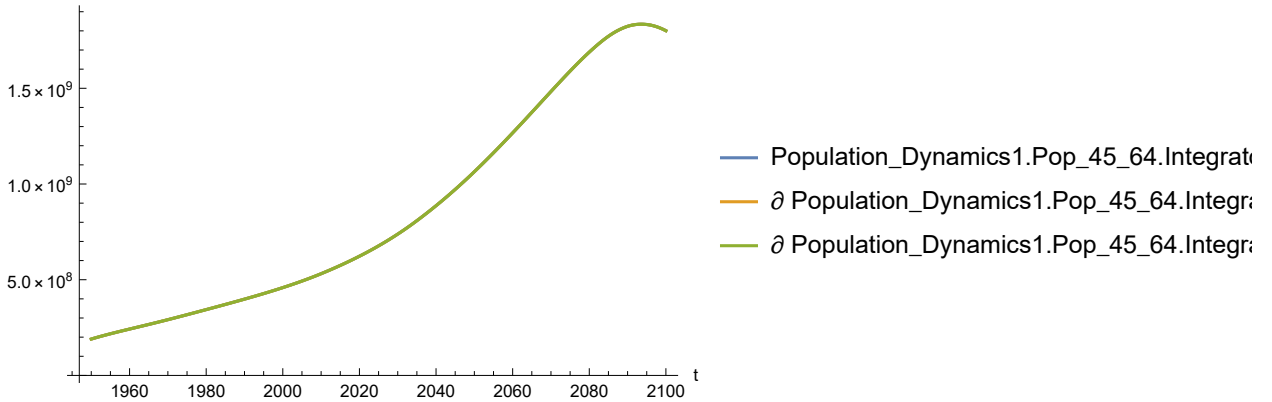
Out[323]:=



In[324]:=

```
SystemModelPlot[simsensdata, {"Population_Dynamics1.Pop_45_64.Integrator1.y",
"Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[5]", percentvar}]
```

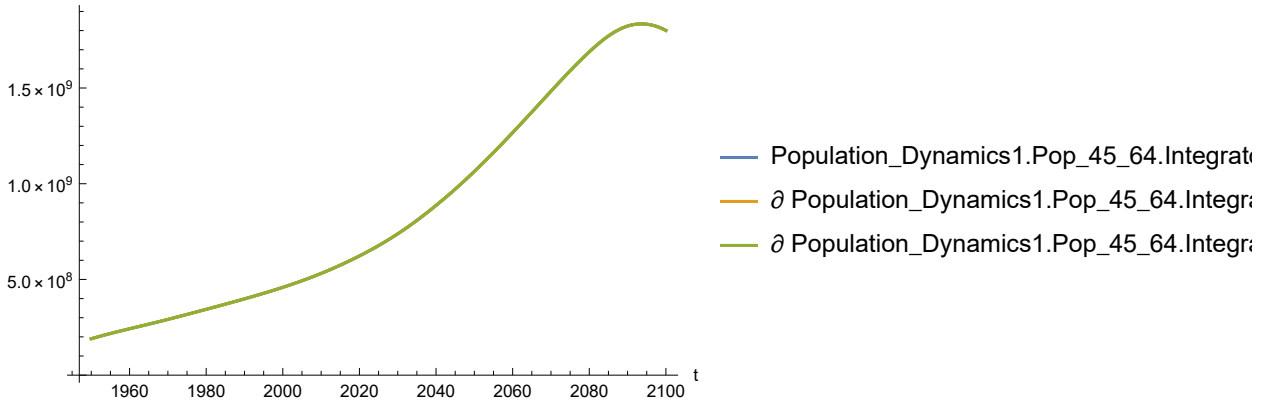
Out[324]:=



In[325]:=

```
SystemModelPlot[simsensdata, {"Population_Dynamics1.Pop_45_64.Integrator1.y",
"Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[6]", percentvar}]
```

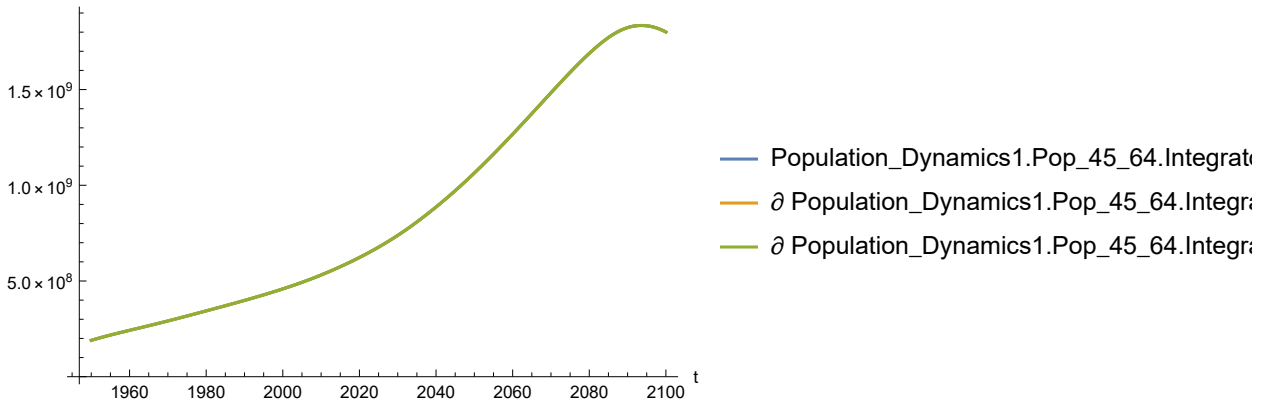
Out[325]:=



In[326]:=

```
SystemModelPlot[simsensdata, {"Population_Dynamics1.Pop_45_64.Integrator1.y",
"Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[7]", percentvar}]
```

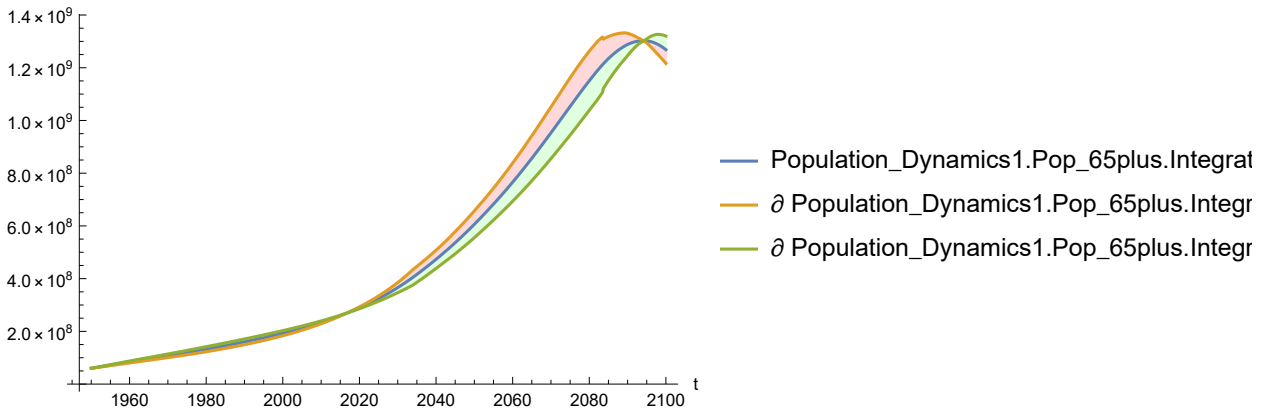
Out[326]=



In[327]:=

```
SystemModelPlot[simsensdata, {"Population_Dynamics1.Pop_65plus.Integrator1.y",
"Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[1]", percentvar}]
```

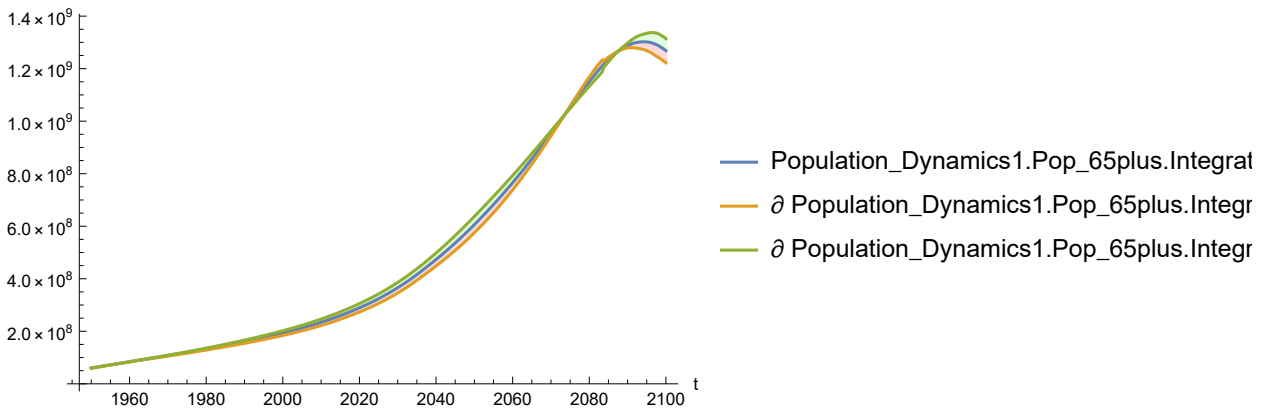
Out[327]=



In[328]:=

```
SystemModelPlot[simsensdata, {"Population_Dynamics1.Pop_65plus.Integrator1.y",
"Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[2]", percentvar}]
```

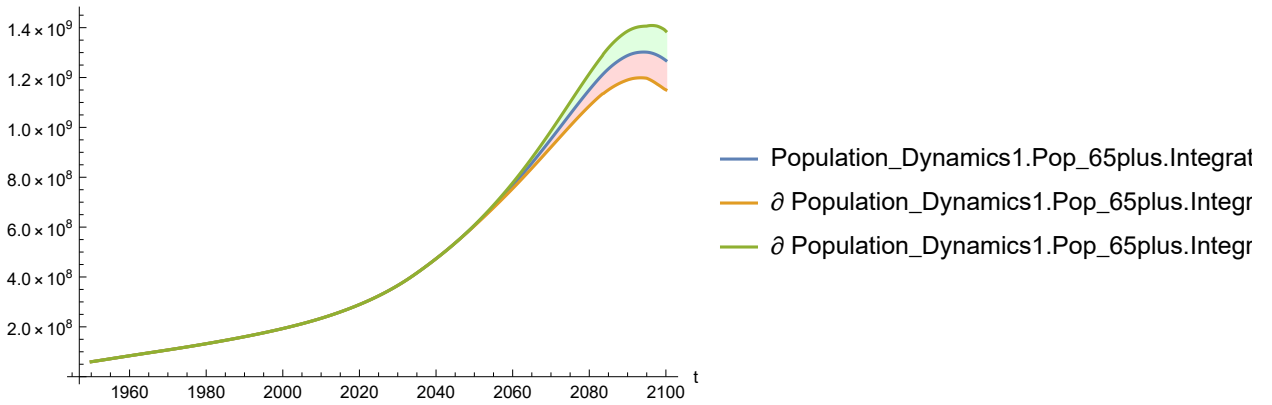
Out[328]=



In[329]:=

```
SystemModelPlot[simsensdata, {"Population_Dynamics1.Pop_65plus.Integrator1.y",
"Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[3]", percentvar}]
```

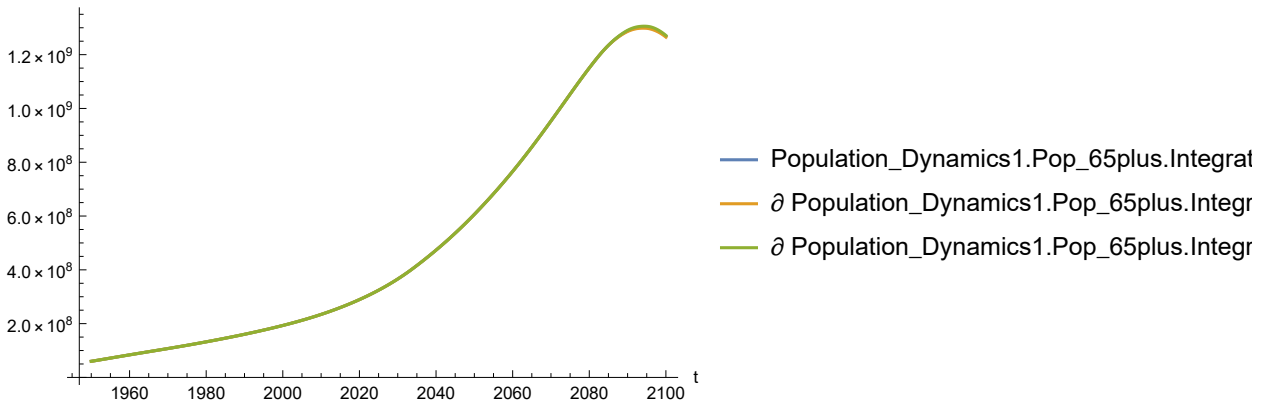
Out[329]=



In[330]:=

```
SystemModelPlot[simsensdata, {"Population_Dynamics1.Pop_65plus.Integrator1.y",
"Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[4]", percentvar}]
```

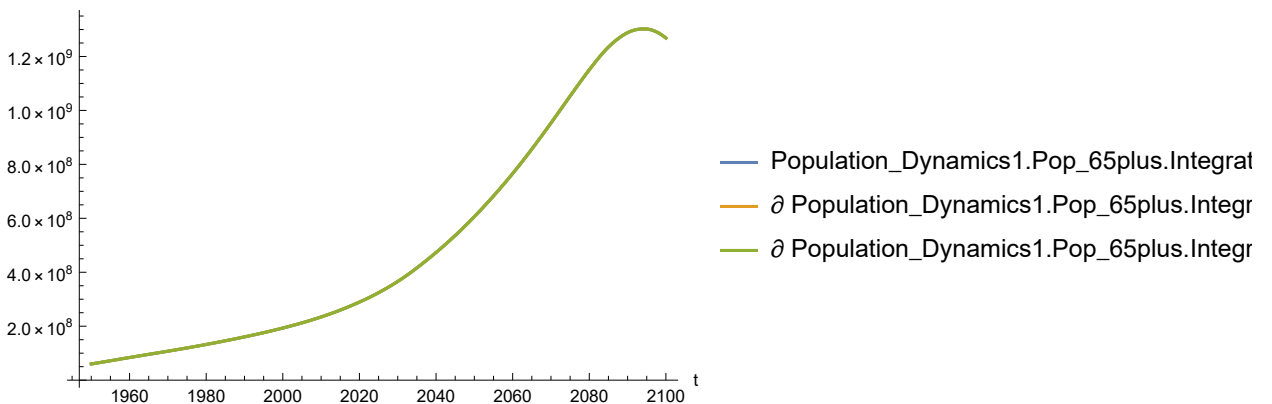
Out[330]=



In[331]:=

```
SystemModelPlot[simsensdata, {"Population_Dynamics1.Pop_65plus.Integrator1.y",
"Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[5]", percentvar}]
```

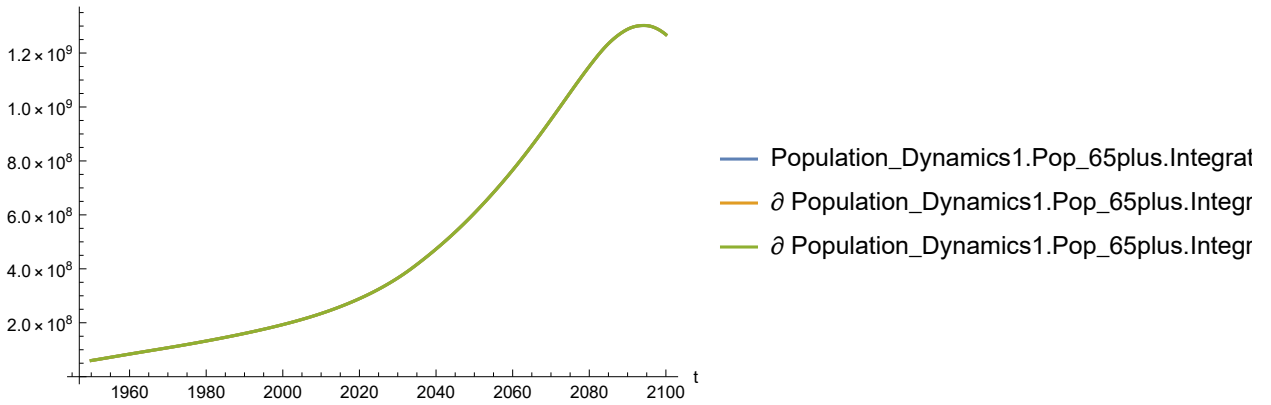
Out[331]=



In[332]:=

```
SystemModelPlot[simsensdata, {"Population_Dynamics1.Pop_65plus.Integrator1.y",
    "Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[6]", percentvar}]
```

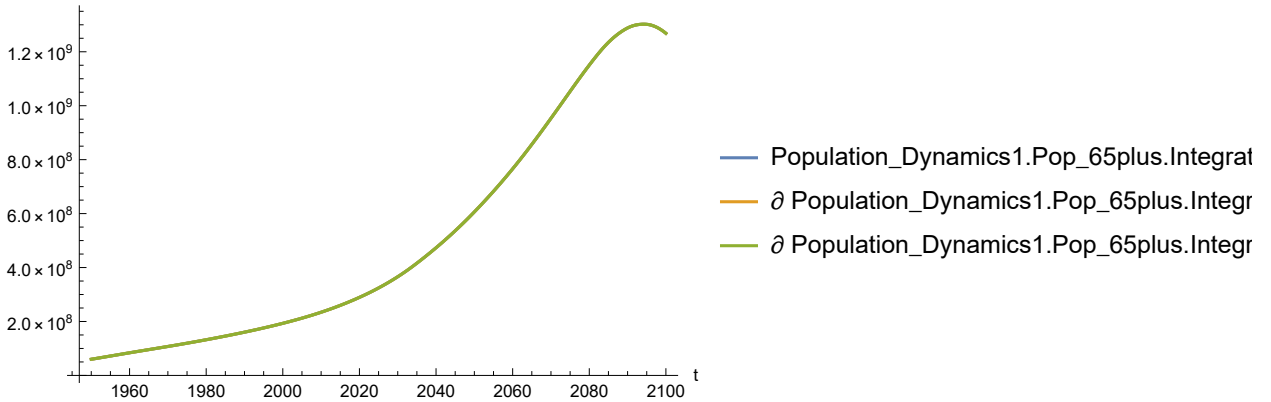
Out[332]=



In[333]:=

```
SystemModelPlot[simsensdata, {"Population_Dynamics1.Pop_65plus.Integrator1.y",
    "Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[7]", percentvar}]
```

Out[333]=

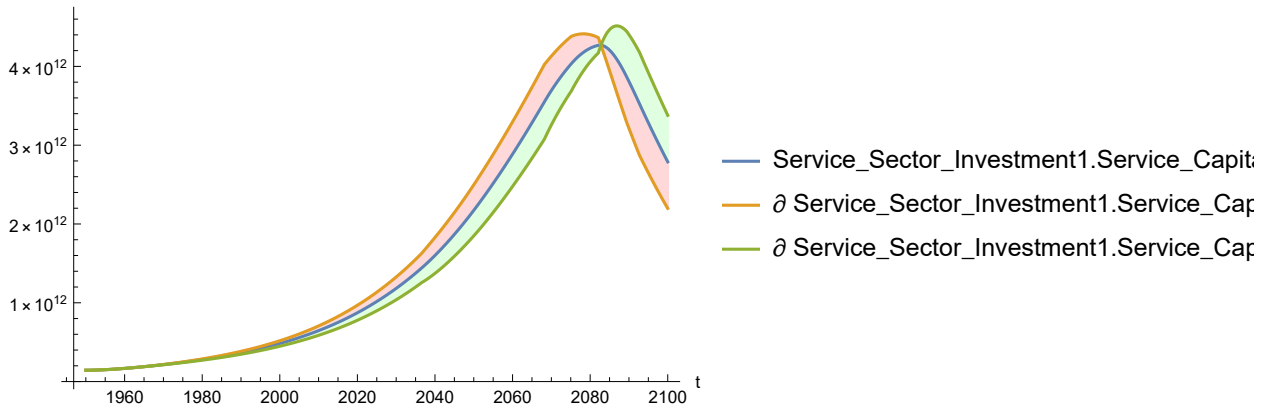


Plot sensitivity of Service_Sector_Investment1.Service_Capital.Integrator1.y to Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals.

In[334]:=

```
SystemModelPlot[simsensdata,
  {"Service_Sector_Investment1.Service_Capital.Integrator1.y",
   "Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[1]", percentvar}]
```

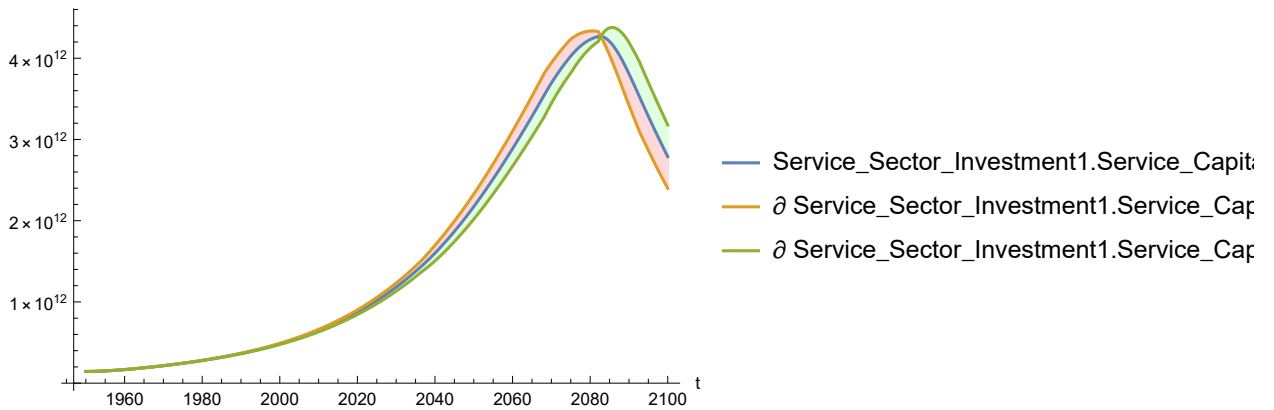
Out[334]=



In[335]:=

```
SystemModelPlot[simsensdata,
  {"Service_Sector_Investment1.Service_Capital.Integrator1.y",
   "Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[2]", percentvar}]
```

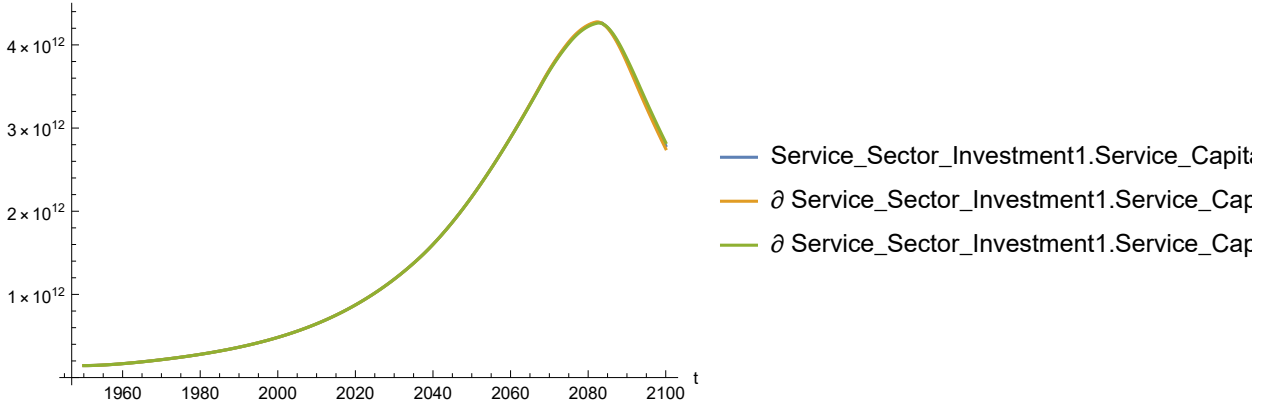
Out[335]=



In[336]:=

```
SystemModelPlot[simsensdata,
  {"Service_Sector_Investment1.Service_Capital.Integrator1.y",
   "Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[3]", percentvar}]
```

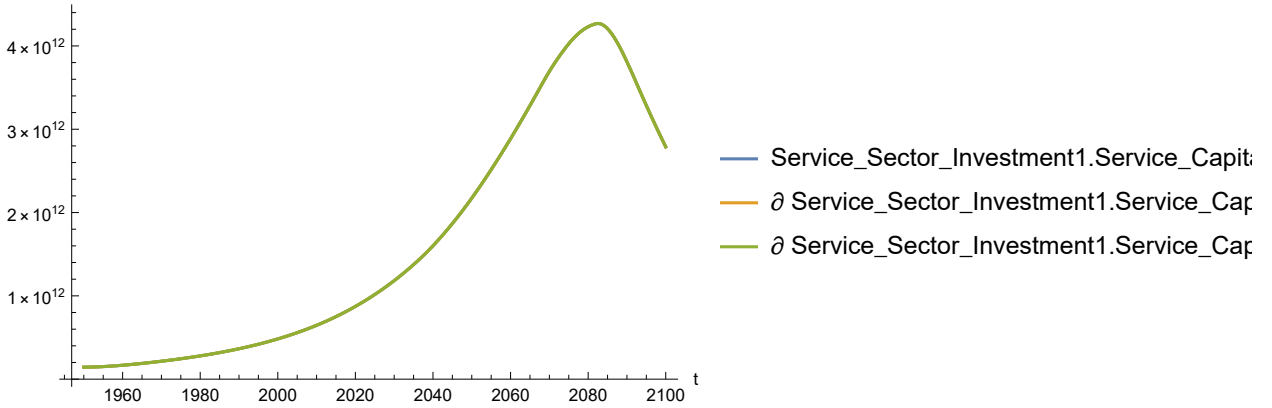
Out[336]=



In[337]:=

```
SystemModelPlot[simsensdata,
  {"Service_Sector_Investment1.Service_Capital.Integrator1.y",
   "Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[4]", percentvar}]
```

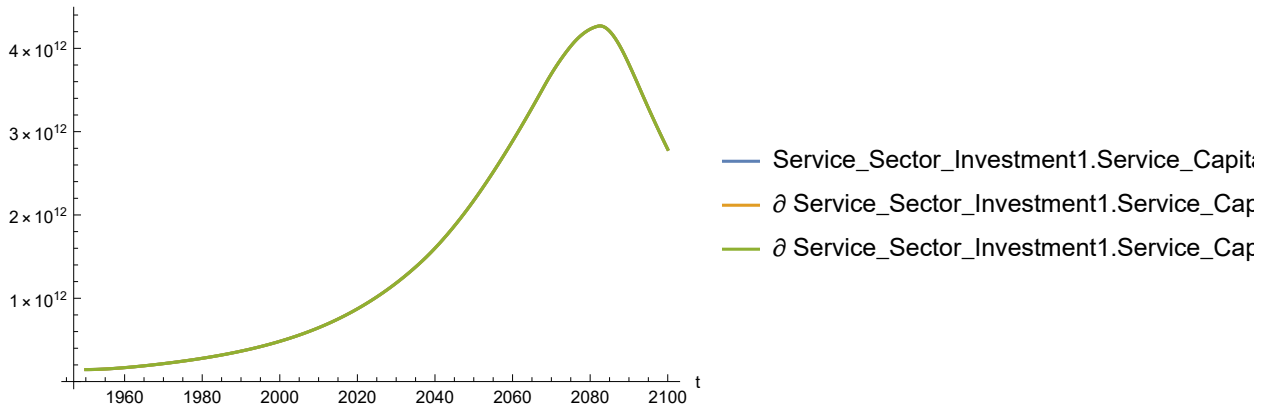
Out[337]=



In[338]:=

```
SystemModelPlot[simsensdata,
  {"Service_Sector_Investment1.Service_Capital.Integrator1.y",
   "Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[5]", percentvar}]
```

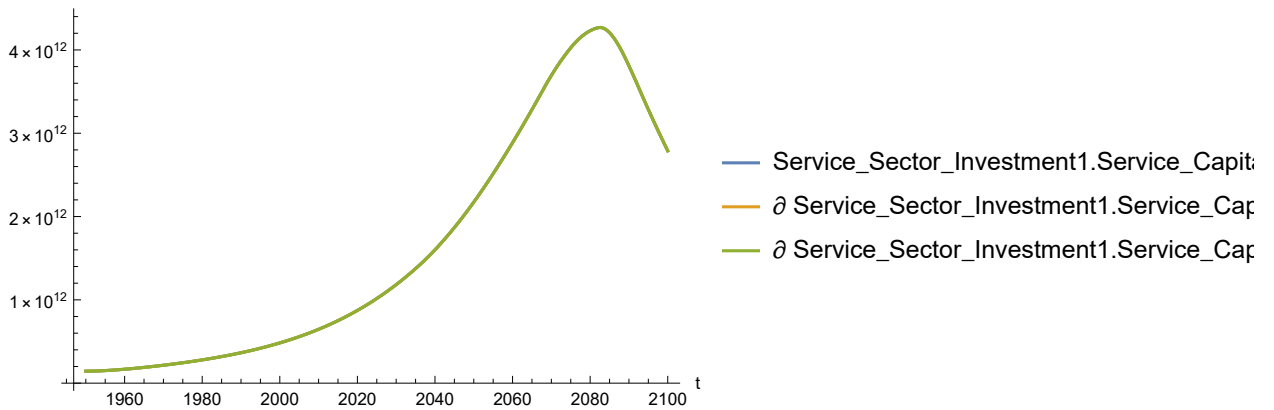
Out[338]=



In[339]:=

```
SystemModelPlot[simsensdata,
  {"Service_Sector_Investment1.Service_Capital.Integrator1.y",
   "Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[6]", percentvar}]
```

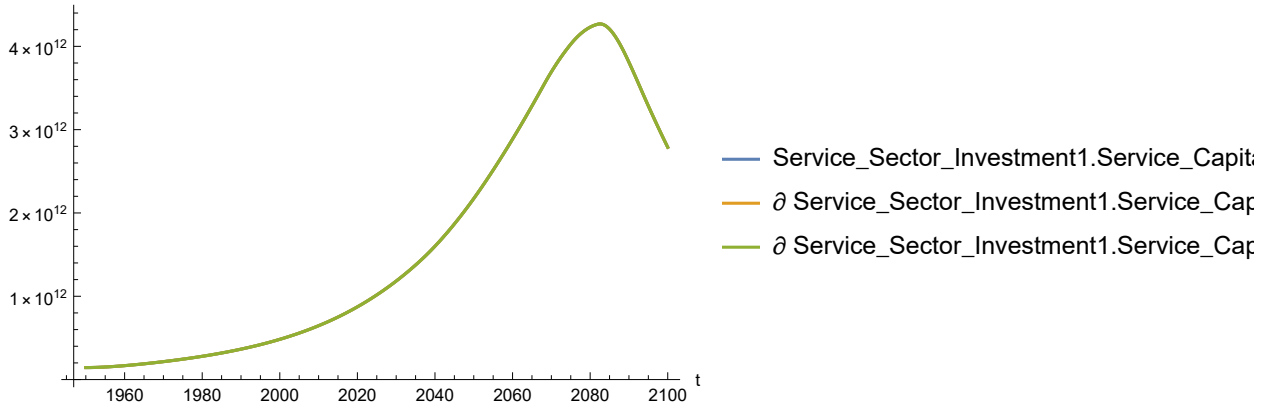
Out[339]=



In[340]:=

```
SystemModelPlot[simsensdata,
  {"Service_Sector_Investment1.Service_Capital.Integrator1.y",
   "Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[7]", percentvar}]
```

Out[340]=



Appendix 2. Experiment 2. Benchmark Scenario 2. Compute and plot sensitivity of various World3 variables to Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals values.

Last modified: 28 August 2022/1310 US CT.

Author: J. K. Horner
email: jhorner@cybermesa.com

Platform:

Windows 10

Wolfram Mathematica Home Version v13.1, dynamic updating enabled

Wolfram SystemModeler v12.0

Open Modelica v3.2.2

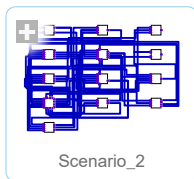
Microsoft Visual C++, version-compatible with the above

Load Benchmark Scenario 2.

In[1]:=

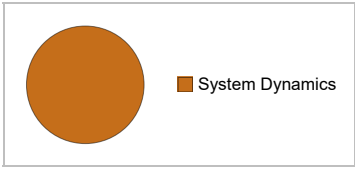
```
mysim = SystemModel["SystemDynamics.WorldDynamics.World3.Scenario_2"]
```

Out[1]:=



Show high-level properties of the scenario.

```
In[2]:= mysummary = mysim["Summary"]
```

	Model	SystemDynamics.WorldDynamics.World3.Scenario_2
	Description	More abundant non-recoverable natural resources
	Simulation Interval	True
	Plot	0
	Cells	106
	Background	True
Out[2]=	Simulation Start	265
	Simulation End	265
	Diagram	

Set percent variation. 0.1 = nominal +/- 10%.

```
In[3]:= percentvar = 0.1
```

```
Out[3]= 0.1
```

Show the default **Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals**.

```
In[4]:= SystemModel[mysim] [
  {"ParameterValues", "Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[1]"}]
```

```
Out[4]= {Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[1] → 1}
```

```
In[5]:= SystemModel[mysim] [
  {"ParameterValues", "Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[2]"}]
```

```
Out[5]= {Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[2] → 1.5}
```

```
In[6]:= SystemModel[mysim] [
  {"ParameterValues", "Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[3]"}]
```

```
Out[6]= {Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[3] → 1.9}
```

```
In[7]:= SystemModel[mysim] [
  {"ParameterValues", "Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[4]"}]
```

```
Out[7]= {Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[4] → 2}
```

```

In[8]:= SystemModel[mysim] [
  {"ParameterValues", "Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[5]"}]
Out[8]= {Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[5] → 2}

In[9]:= SystemModel[mysim] [
  {"ParameterValues", "Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[6]"}]
Out[9]= {Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[6] → 2}

In[10]:= SystemModel[mysim] [
  {"ParameterValues", "Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[7]"}]
Out[10]= {Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[7] → 2}

```

Retrieve all variables that **SystemModelSimulateSensitivity** says depend on **Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals**. Set scenario start at 1950 because various **SystemModel** functions have problems with a step function at scenario time 1940. (This is a World3-specific quirk.)

```

In[11]:= simsensdata = SystemModelSimulateSensitivity[mysim,
  {1950, 2100}, {"Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[1]",
  "Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[2]",
  "Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[3]",
  "Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[4]",
  "Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[5]",
  "Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[6]",
  "Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[7]"}]
Out[11]=

```

SystemModelSimulationData [ Model: Scenario_2
Time: 1.95×10^3 to 2.10×10^3]

Show the names of the World3 variables in **simsensdata** that **SystemModelSimulateSensitivity** recognizes.

```

In[12]:= simsensdata["SensitivityNames"]
Out[12]=
{{Arable_Land_Dynamics1.Arable_Land.Integrator1.y,
  Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[1]},
 {Arable_Land_Dynamics1.Arable_Land.Integrator1.y,
  Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[2]},
 {Arable_Land_Dynamics1.Arable_Land.Integrator1.y,
  Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[3]},
 {Arable_Land_Dynamics1.Arable_Land.Integrator1.y,
  Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[4]},
 {Arable_Land_Dynamics1.Arable_Land.Integrator1.y,
  Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[5]},
 {Arable_Land_Dynamics1.Arable_Land.Integrator1.y,
  Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[6]},

```

```

{Arable_Land_Dynamics1.Arable_Land.Integrator1.y,
 Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[7]},
{Arable_Land_Dynamics1.Pot_Arable_Land.Integrator1.y,
 Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[1]},
{Arable_Land_Dynamics1.Pot_Arable_Land.Integrator1.y,
 Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[2]},
{Arable_Land_Dynamics1.Pot_Arable_Land.Integrator1.y,
 Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[3]},
{Arable_Land_Dynamics1.Pot_Arable_Land.Integrator1.y,
 Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[4]},
{Arable_Land_Dynamics1.Pot_Arable_Land.Integrator1.y,
 Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[5]},
{Arable_Land_Dynamics1.Pot_Arable_Land.Integrator1.y,
 Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[6]},
{Arable_Land_Dynamics1.Pot_Arable_Land.Integrator1.y,
 Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[7]},
{Arable_Land_Dynamics1.Urban_Ind_Land.Integrator1.y,
 Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[1]},
{Arable_Land_Dynamics1.Urban_Ind_Land.Integrator1.y,
 Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[2]},
{Arable_Land_Dynamics1.Urban_Ind_Land.Integrator1.y,
 Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[3]},
{Arable_Land_Dynamics1.Urban_Ind_Land.Integrator1.y,
 Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[4]},
{Arable_Land_Dynamics1.Urban_Ind_Land.Integrator1.y,
 Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[5]},
{Arable_Land_Dynamics1.Urban_Ind_Land.Integrator1.y,
 Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[6]},
{Arable_Land_Dynamics1.Urban_Ind_Land.Integrator1.y,
 Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[7]},
{Food_Production1.Agr_Inp.Integrator1.y,
 Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[1]},
{Food_Production1.Agr_Inp.Integrator1.y,
 Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[2]},
{Food_Production1.Agr_Inp.Integrator1.y,
 Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[3]},
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{NR_Resource_Utilization1.P_Nr_Res_Use_Fact_2.Smooth1.Integrator1.y,

```

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Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[4]},
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Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[5]},
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Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[6]},
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Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[7]},
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Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[2]},
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Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[6]},
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Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[4]},
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Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[5]},

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  Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[6]},
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  Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[7]},
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{Pollution_Dynamics1.PPoll_Appear_Rate.Smooth2.Integrator1.y,
  Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[2]},
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  Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[3]},
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  Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[4]},
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  Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[6]},
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  Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[7]},
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  Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[6]},
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Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[6]},
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Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[7]},
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{Pollution_Dynamics1.P_PPoll_Gen_Fact_2.Smooth3.Integrator1.y,
Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[3]},

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  Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[6]},
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  Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[7]},
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  Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[3]},
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  Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[5]},
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Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[4]},
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Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[6]},
{Service_Sector_Investment1.Service_Capital.Integrator1.y,
Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[7]}

```

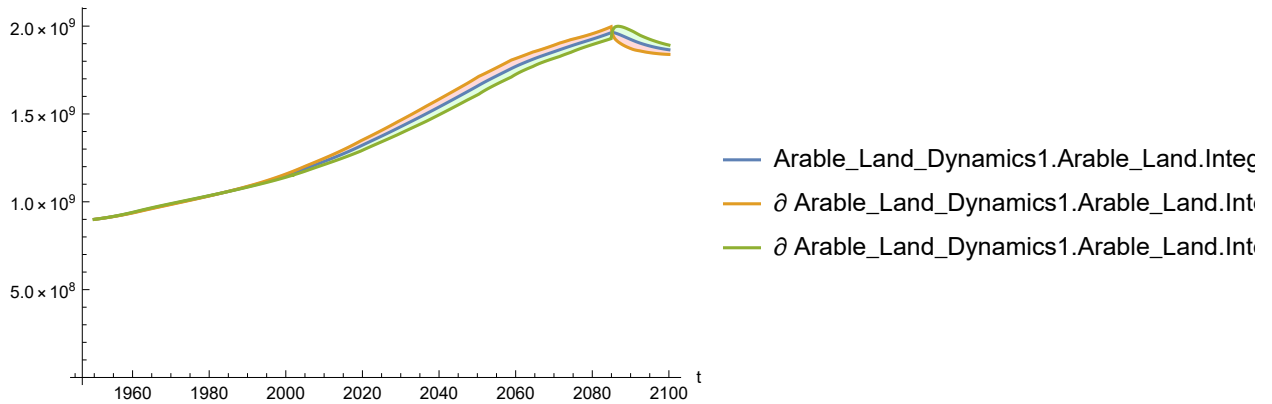
Programming note: in Mathematica, the following list of **SystemModelPlot** instructions could

replaced by a loop or iteration construct that cycles over **simsensdata**. The resulting source code would be elegant, but upon execution it turns out to have dynamic updating issues that the Platform described above does not handle well.

Plot the sensitivity of `Arable_Land_Dynamics1.Arable_Land.Integrator1.y` to `Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals`.

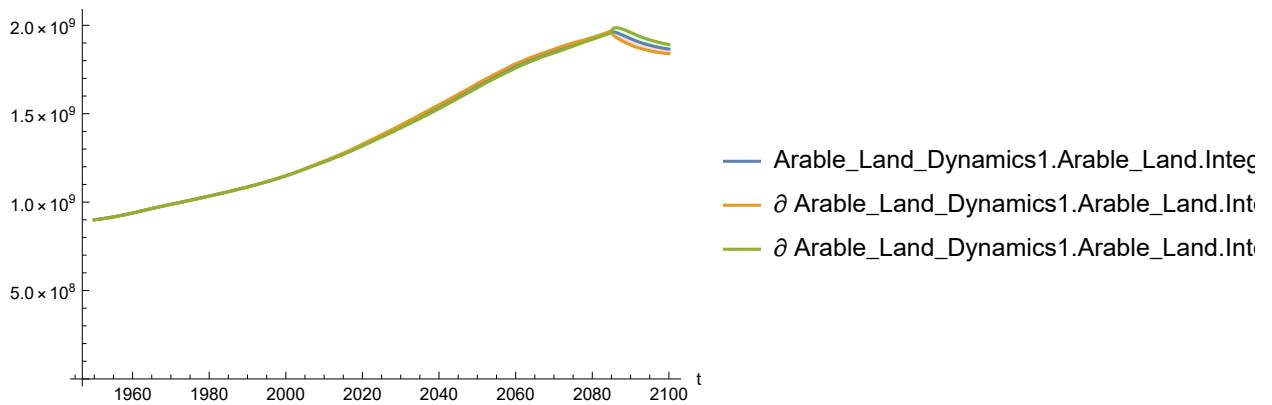
```
In[13]:= SystemModelPlot[simsensdata, {"Arable_Land_Dynamics1.Arable_Land.Integrator1.y",
  "Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[1]", percentvar}]
```

Out[13]=



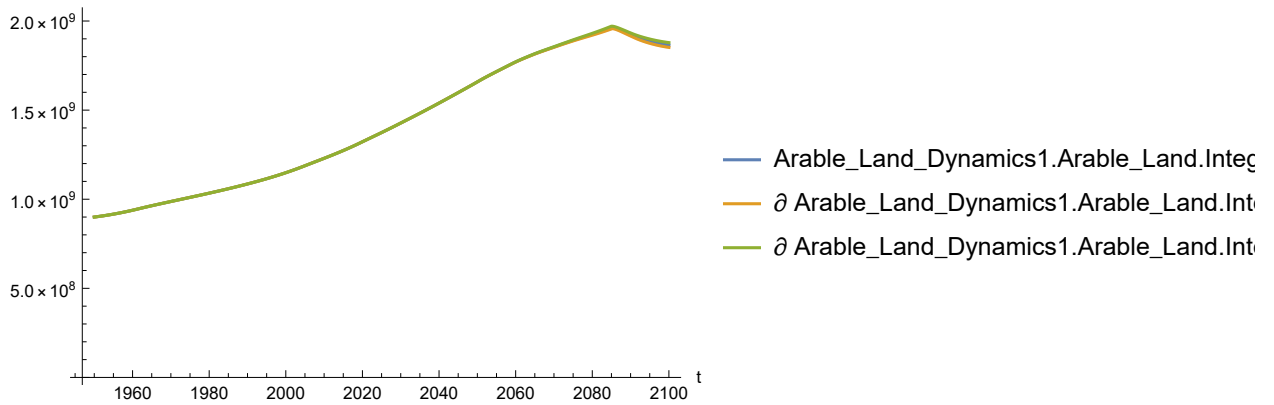
```
In[14]:= SystemModelPlot[simsensdata, {"Arable_Land_Dynamics1.Arable_Land.Integrator1.y",
  "Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[2]", percentvar}]
```

Out[14]=



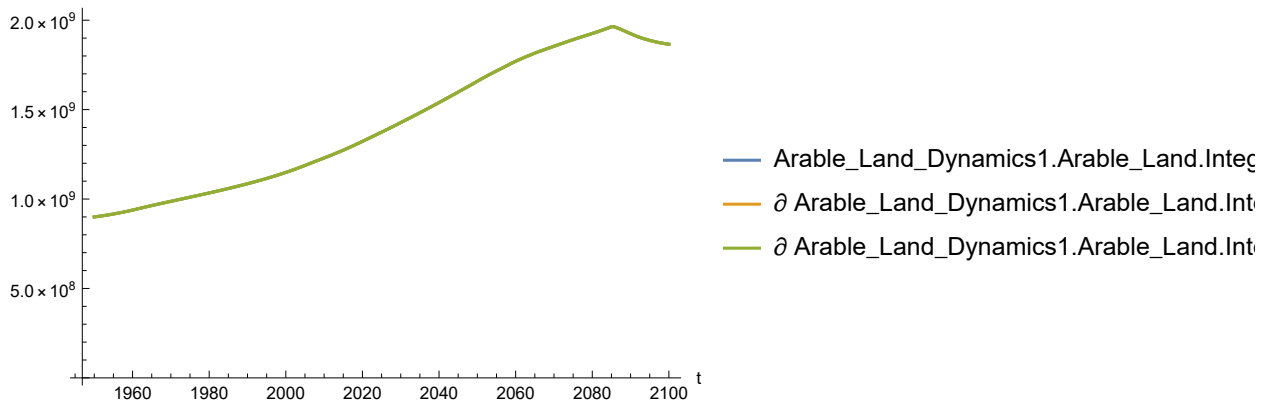
```
In[15]:= SystemModelPlot[simsensdata, {"Arable_Land_Dynamics1.Arable_Land.Integrator1.y",
"Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[3]", percentvar}]
```

Out[15]=



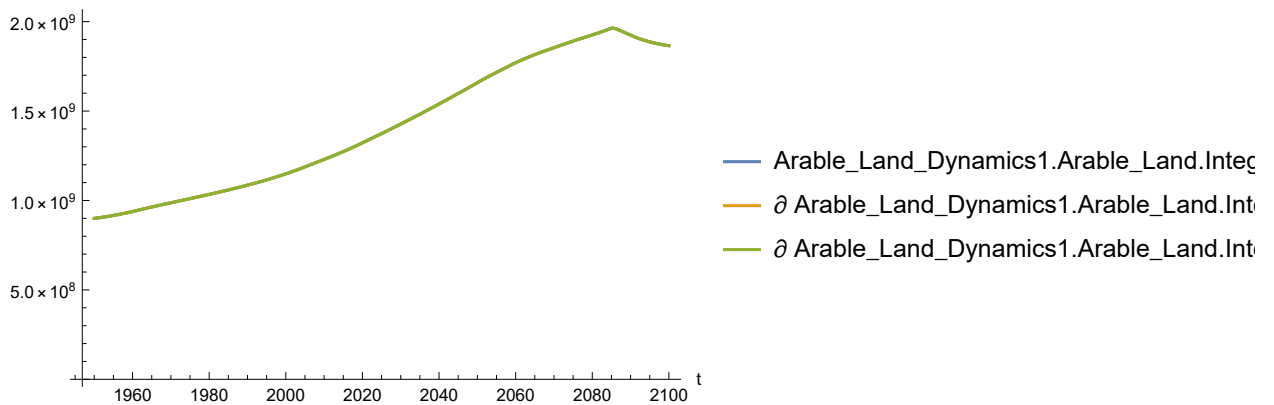
```
In[16]:= SystemModelPlot[simsensdata, {"Arable_Land_Dynamics1.Arable_Land.Integrator1.y",
"Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[4]", percentvar}]
```

Out[16]=



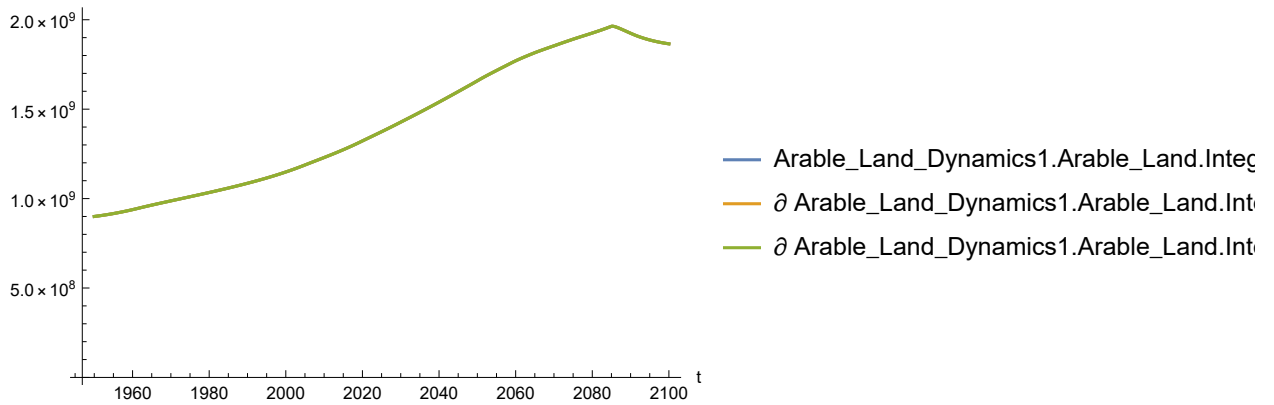
```
In[17]:= SystemModelPlot[simsensdata, {"Arable_Land_Dynamics1.Arable_Land.Integrator1.y",
"Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[5]", percentvar}]
```

Out[17]=



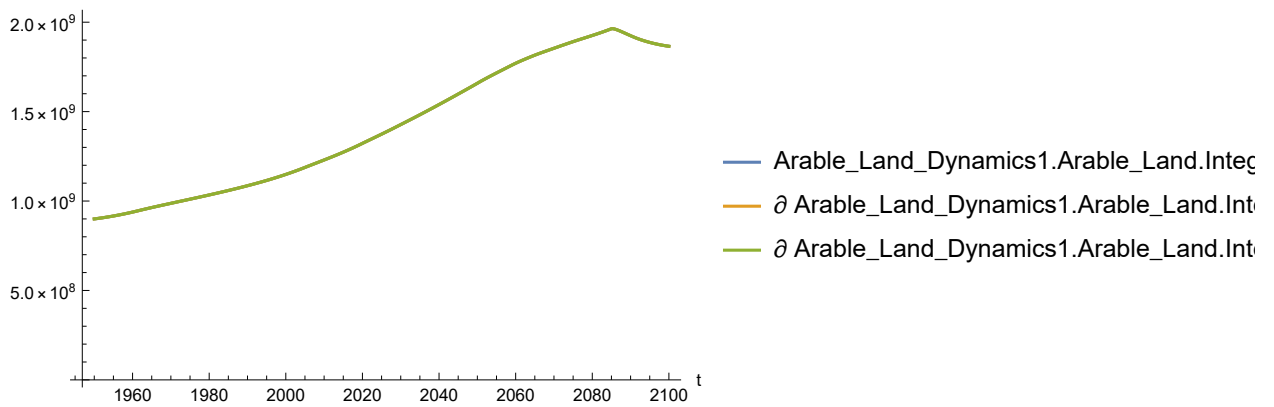
```
In[18]:= SystemModelPlot[simsensdata, {"Arable_Land_Dynamics1.Arable_Land.Integrator1.y",
"Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[6]", percentvar}]
```

Out[18]=



```
In[19]:= SystemModelPlot[simsensdata, {"Arable_Land_Dynamics1.Arable_Land.Integrator1.y",
"Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[7]", percentvar}]
```

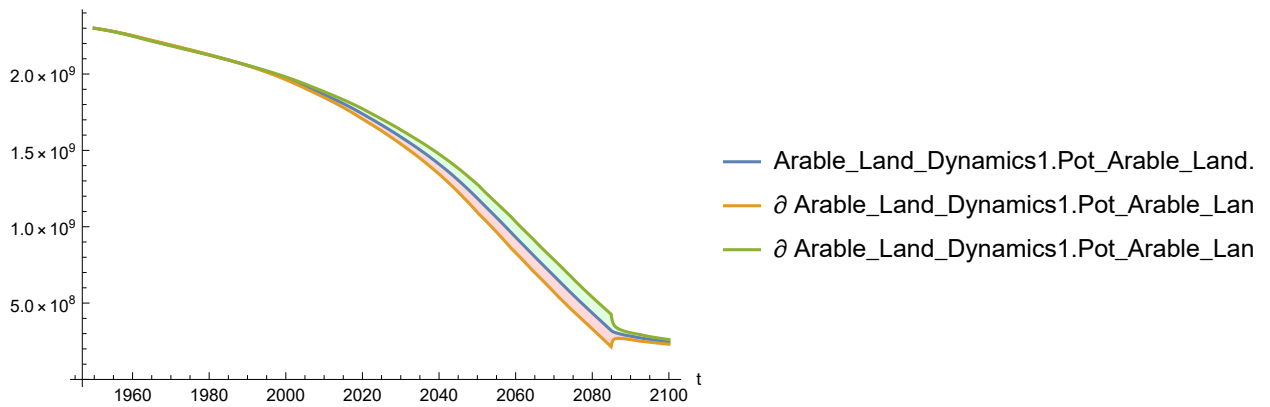
Out[19]=



Plot the sensitivity of `Arable_Land_Dynamics1.Pot_Arable_Land.Integrator1.y` to `Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals`.

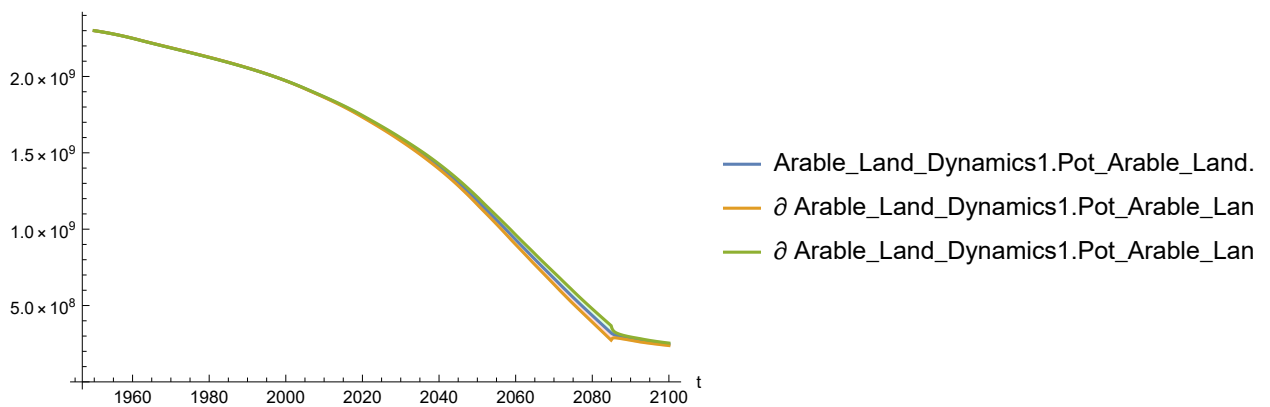
```
In[20]:= SystemModelPlot[simsensdata, {"Arable_Land_Dynamics1.Pot_Arable_Land.Integrator1.y",
"Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[1]", percentvar}]
```

Out[20]=



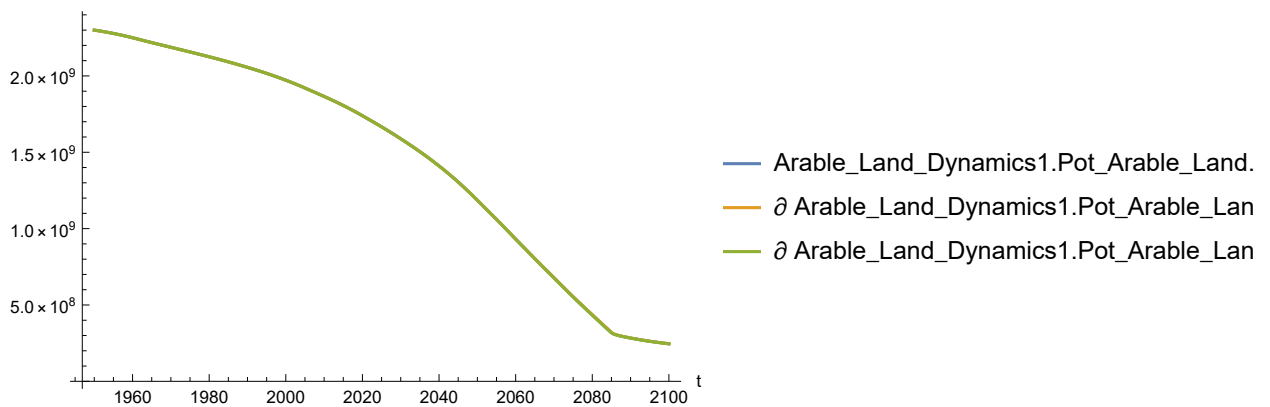
```
In[21]:= SystemModelPlot[simsensdata, {"Arable_Land_Dynamics1.Pot_Arable_Land.Integrator1.y",
"Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[2]", percentvar}]
```

Out[21]=



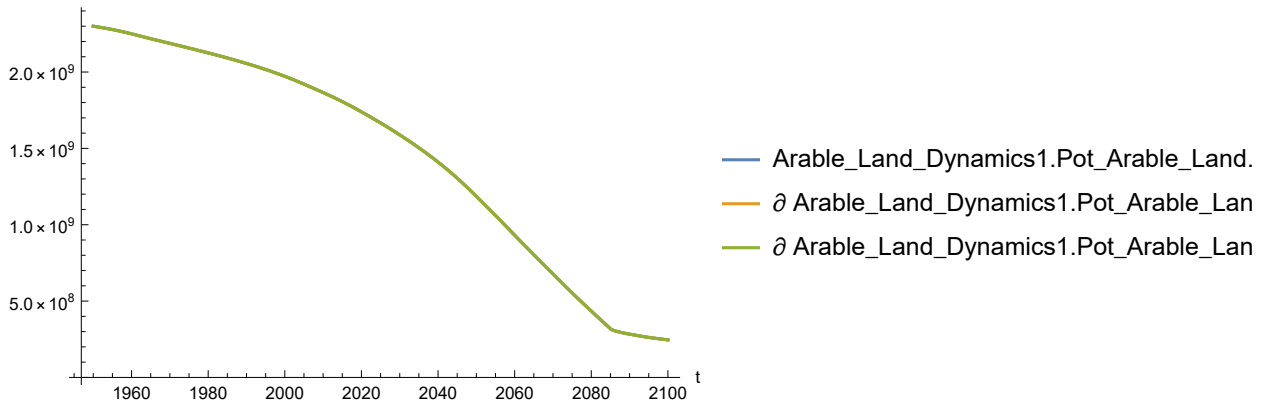
```
In[22]:= SystemModelPlot[simsensdata, {"Arable_Land_Dynamics1.Pot_Arable_Land.Integrator1.y",
"Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[3]", percentvar}]
```

Out[22]=



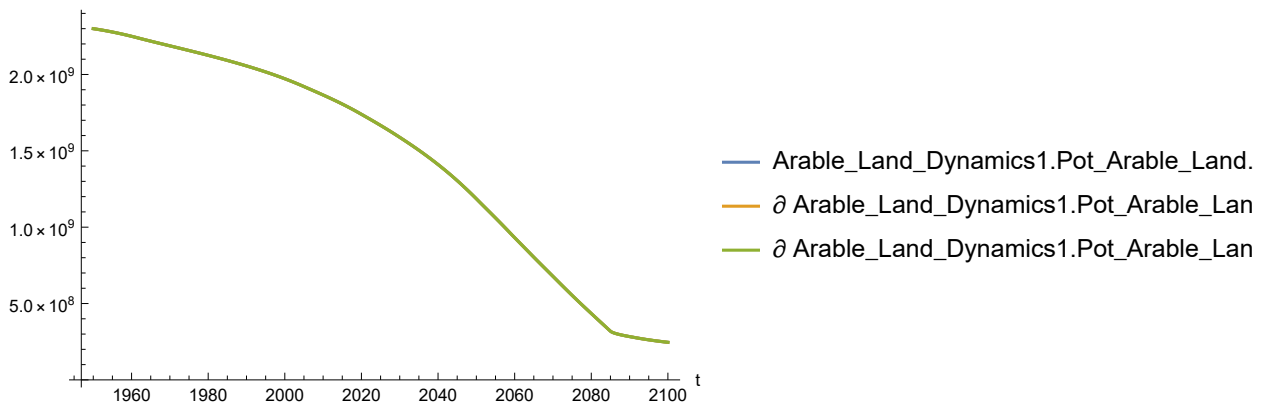
```
In[23]:= SystemModelPlot[simsensdata, {"Arable_Land_Dynamics1.Pot_Arable_Land.Integrator1.y",
"Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[4]", percentvar}]
```

Out[23]=



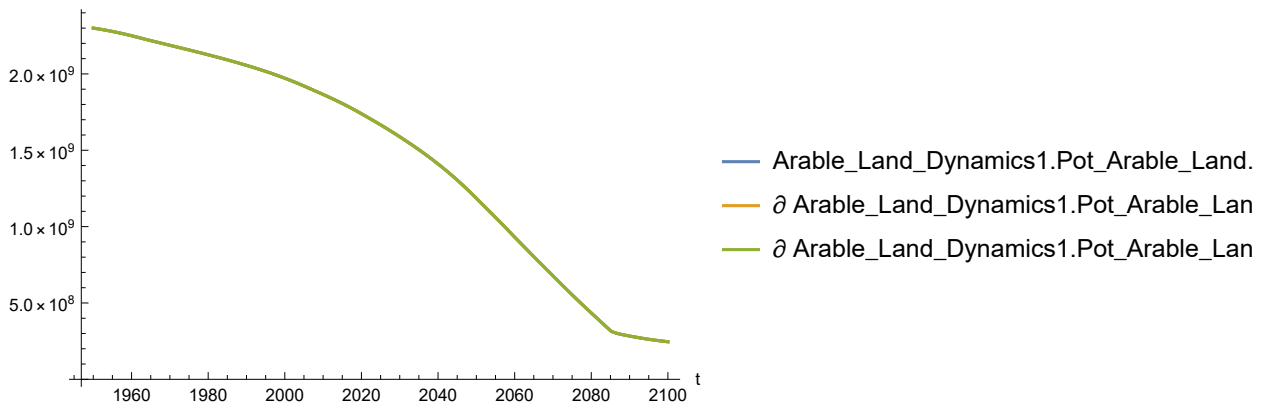
```
In[24]:= SystemModelPlot[simsensdata, {"Arable_Land_Dynamics1.Pot_Arable_Land.Integrator1.y",
"Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[5]", percentvar}]
```

Out[24]=



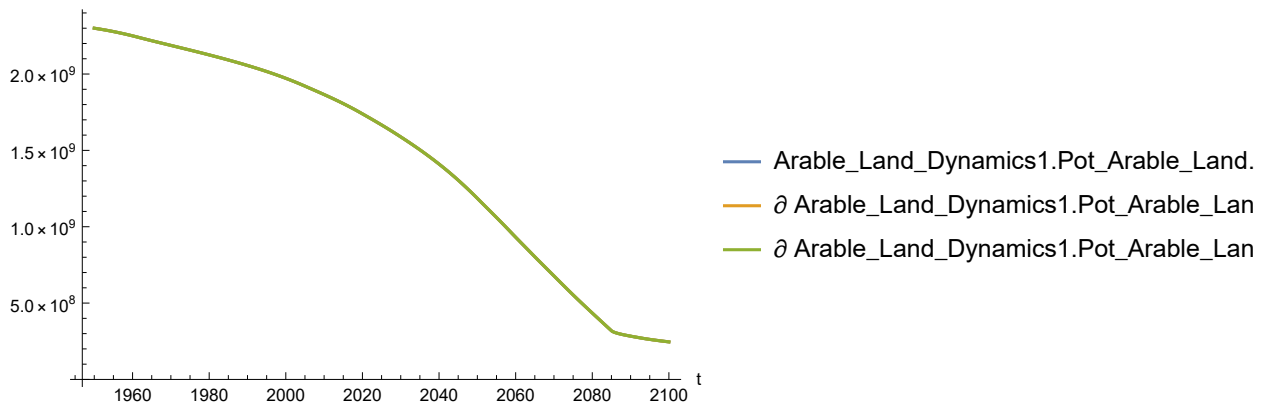
```
In[25]:= SystemModelPlot[simsensdata, {"Arable_Land_Dynamics1.Pot_Arable_Land.Integrator1.y",
"Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[6]", percentvar}]
```

Out[25]=



```
In[26]:= SystemModelPlot[simsensdata, {"Arable_Land_Dynamics1.Pot_Arable_Land.Integrator1.y",
"Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[7]", percentvar}]
```

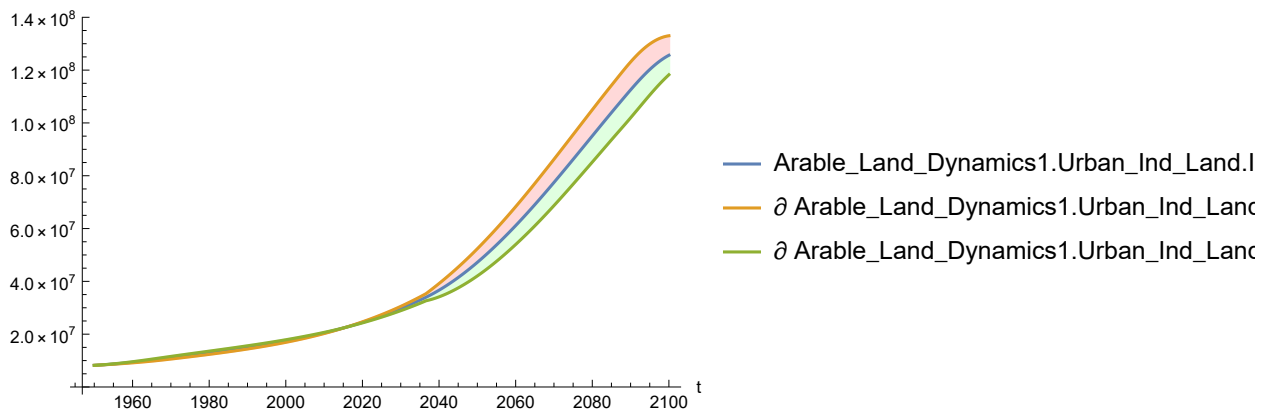
Out[26]=



Plot the sensitivity of Arable_Land_Dynamics1.Urban_Ind_Land.Integrator1.y to Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals.

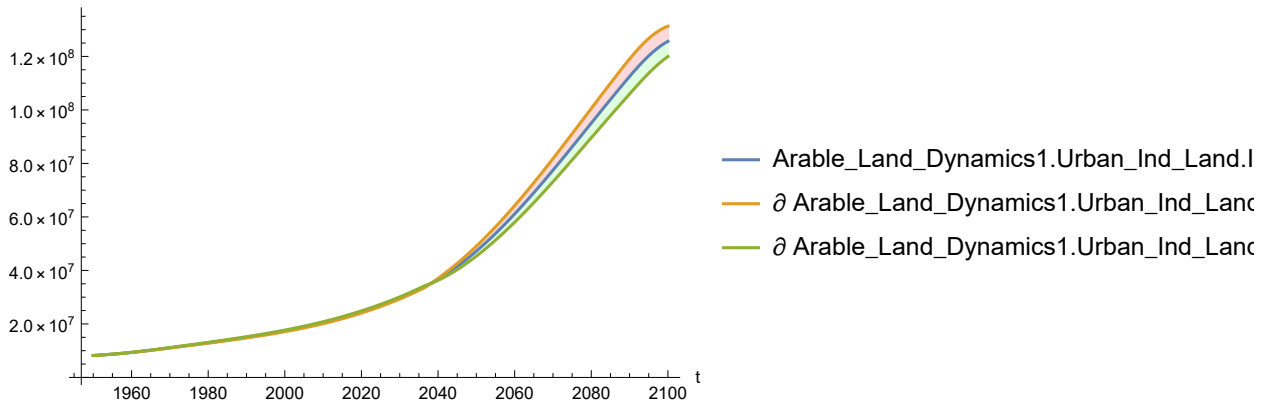
```
In[27]:= SystemModelPlot[simsensdata, {"Arable_Land_Dynamics1.Urban_Ind_Land.Integrator1.y",
"Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[1]", percentvar}]
```

Out[27]=



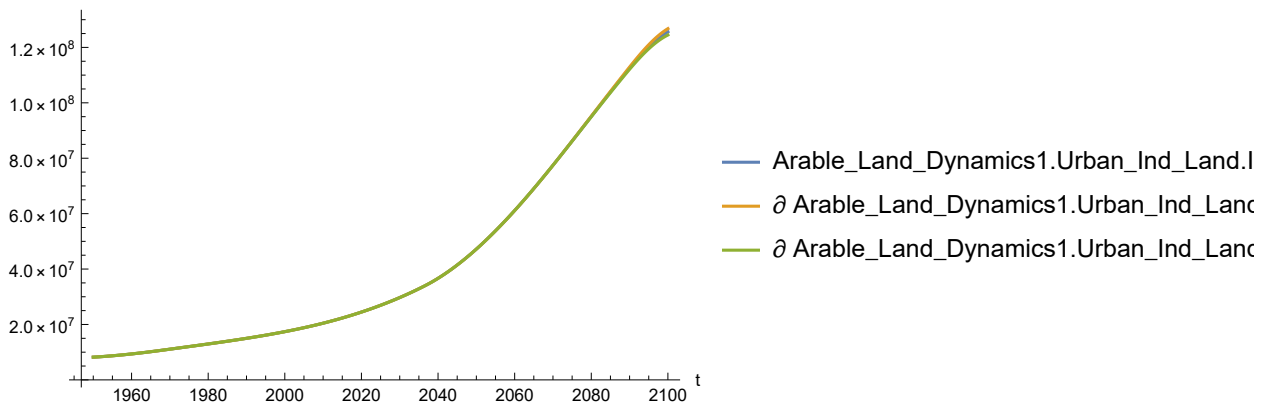
```
In[28]:= SystemModelPlot[simsensdata, {"Arable_Land_Dynamics1.Urban_Ind_Land.Integrator1.y",
"Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[2]", percentvar}]
```

Out[28]=



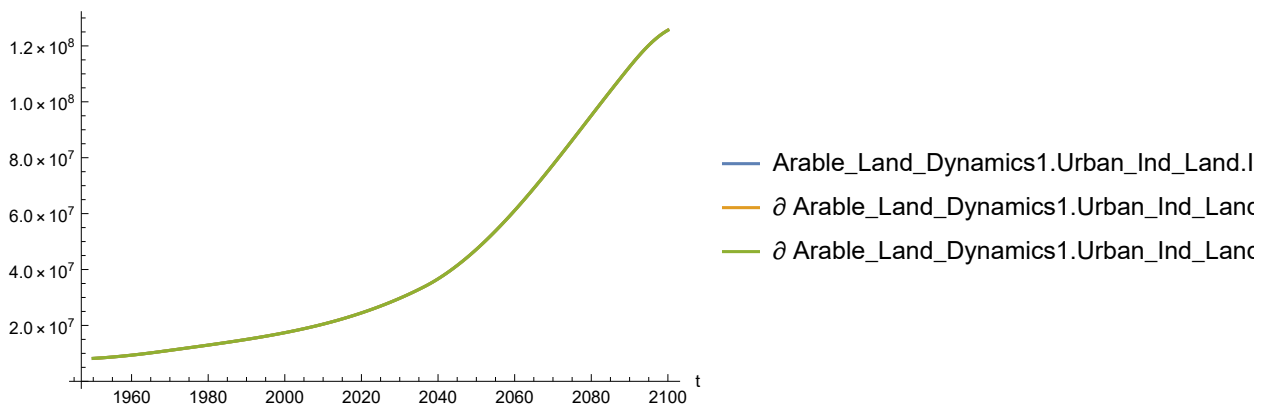
```
In[29]:= SystemModelPlot[simsensdata, {"Arable_Land_Dynamics1.Urban_Ind_Land.Integrator1.y",
"Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[3]", percentvar}]
```

Out[29]=



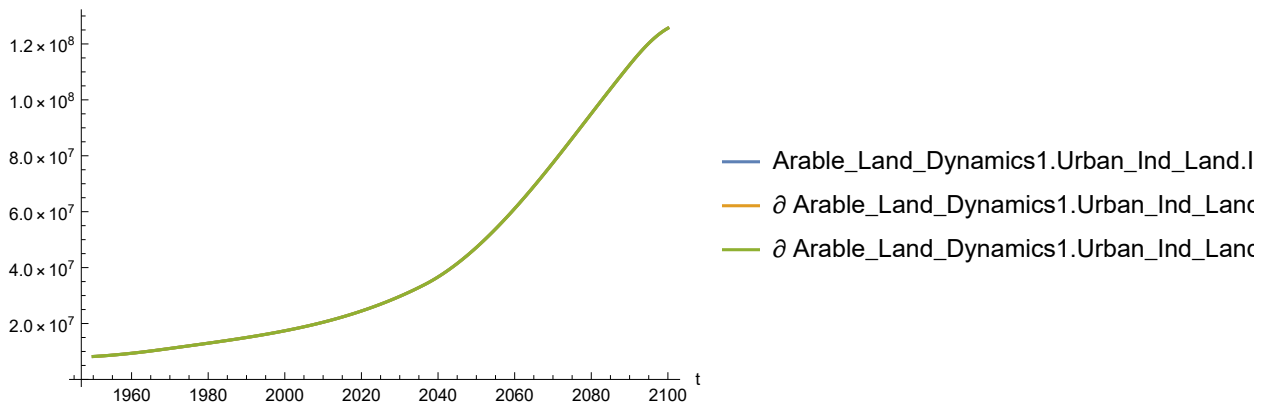
```
In[30]:= SystemModelPlot[simsensdata, {"Arable_Land_Dynamics1.Urban_Ind_Land.Integrator1.y",
"Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[4]", percentvar}]
```

Out[30]=



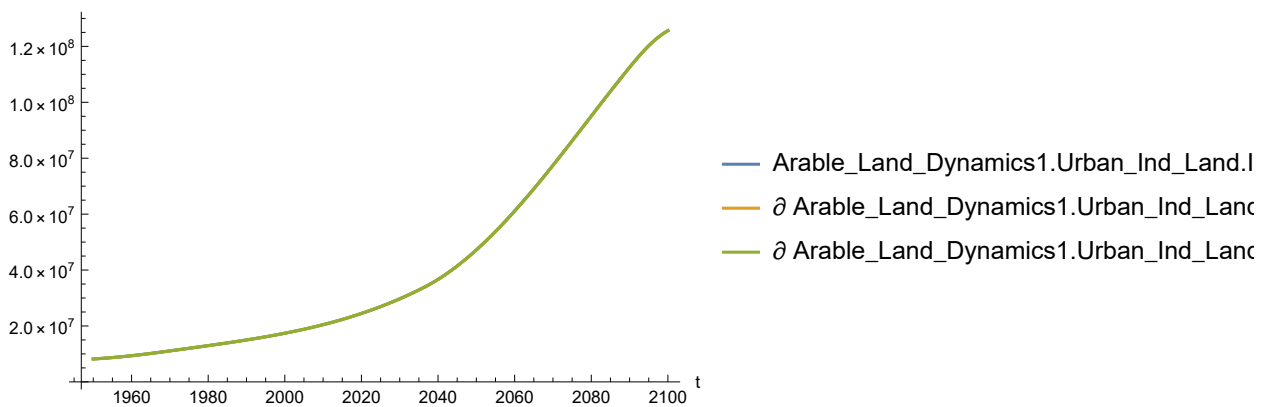
```
In[31]:= SystemModelPlot[simsensdata, {"Arable_Land_Dynamics1.Urban_Ind_Land.Integrator1.y",
"Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[5]", percentvar}]
```

Out[31]=



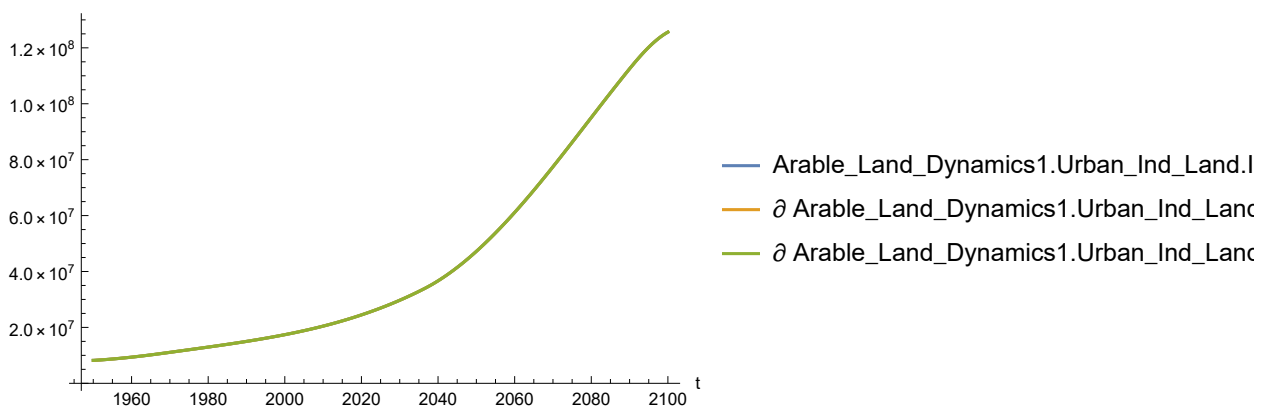
```
In[32]:= SystemModelPlot[simsensdata, {"Arable_Land_Dynamics1.Urban_Ind_Land.Integrator1.y",
"Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[6]", percentvar}]
```

Out[32]=



```
In[33]:= SystemModelPlot[simsensdata, {"Arable_Land_Dynamics1.Urban_Ind_Land.Integrator1.y",
"Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[7]", percentvar}]
```

Out[33]=

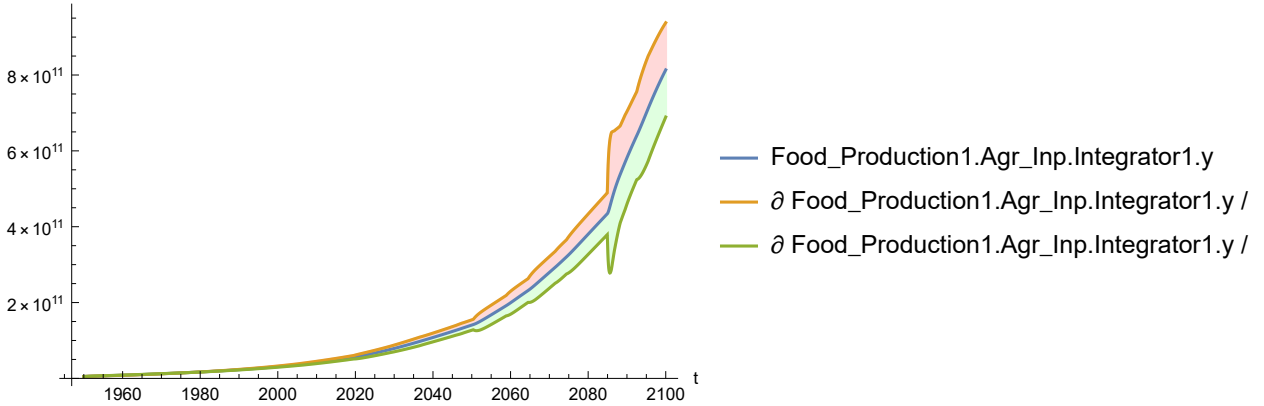


Plot sensitivity of Food_Production.Agr_Inp.Integrator1.y to **Life_Expectan-**

cy1.Lifet_Mlt_Hlth_Serv_2.y_vals.

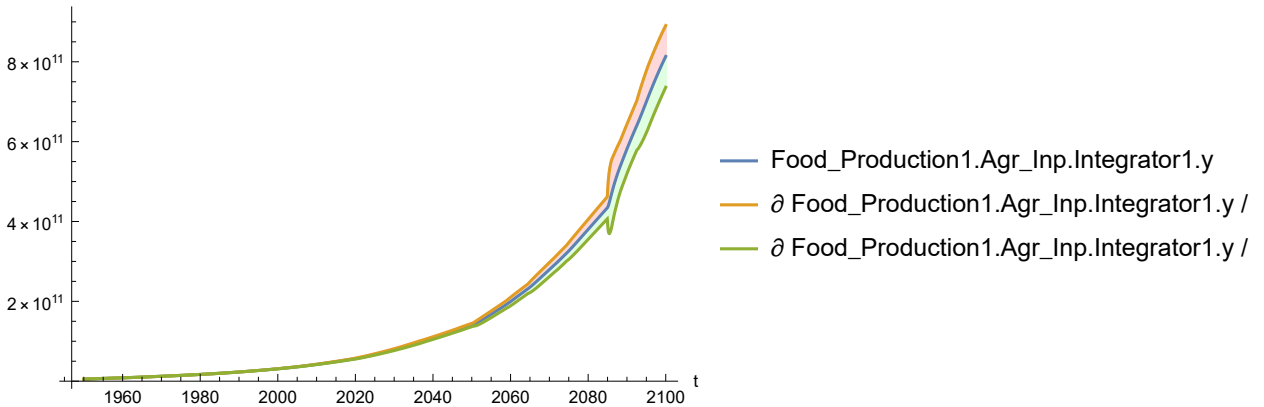
```
In[34]:= SystemModelPlot[simsensdata, {"Food_Production1.Agr_Inp.Integrator1.y",
    "Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[1]", percentvar}]
```

Out[34]=



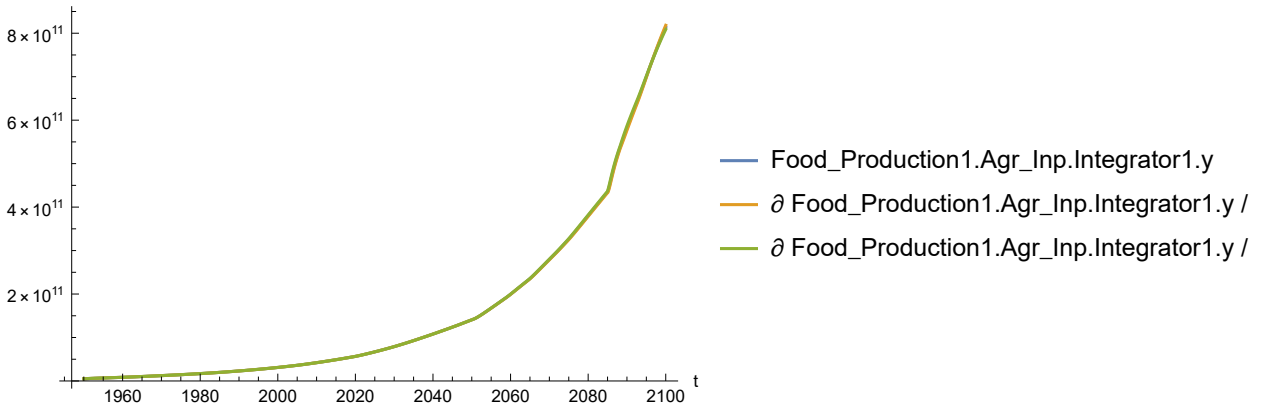
```
In[35]:= SystemModelPlot[simsensdata, {"Food_Production1.Agr_Inp.Integrator1.y",
    "Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[2]", percentvar}]
```

Out[35]=



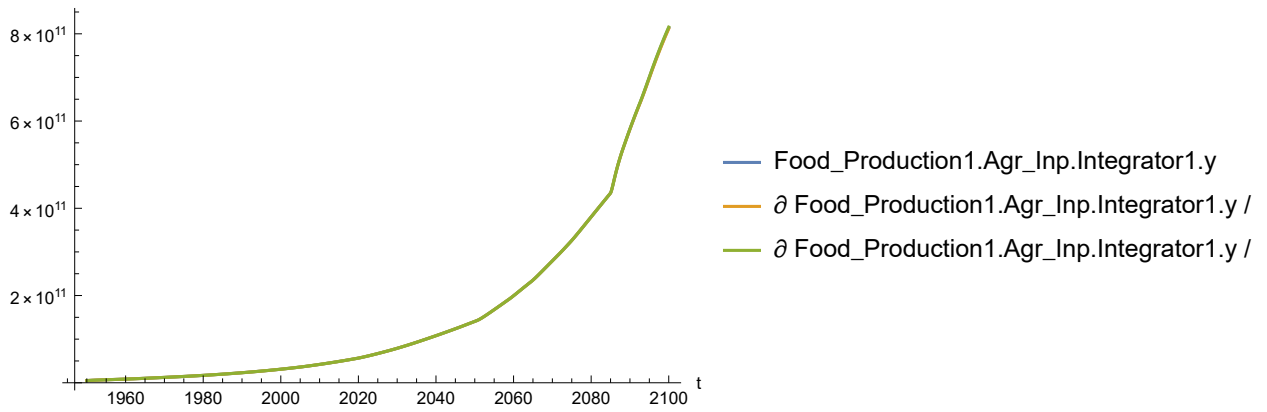
```
In[36]:= SystemModelPlot[simsensdata, {"Food_Production1.Agr_Inp.Integrator1.y",
    "Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[3]", percentvar}]
```

Out[36]=



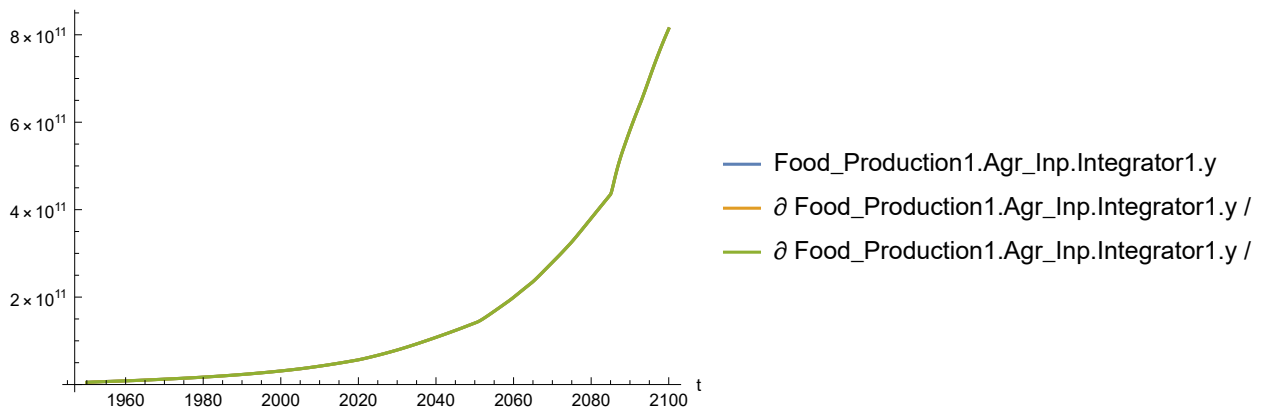
```
In[37]:= SystemModelPlot[simsensdata, {"Food_Production1.Agr_Inp.Integrator1.y",
"Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[4]", percentvar}]
```

Out[37]=



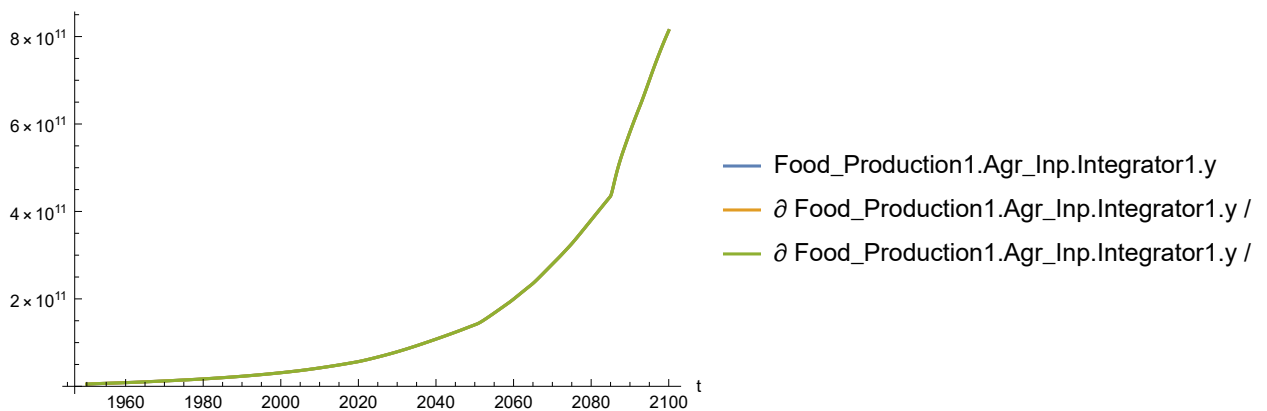
```
In[38]:= SystemModelPlot[simsensdata, {"Food_Production1.Agr_Inp.Integrator1.y",
"Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[5]", percentvar}]
```

Out[38]=



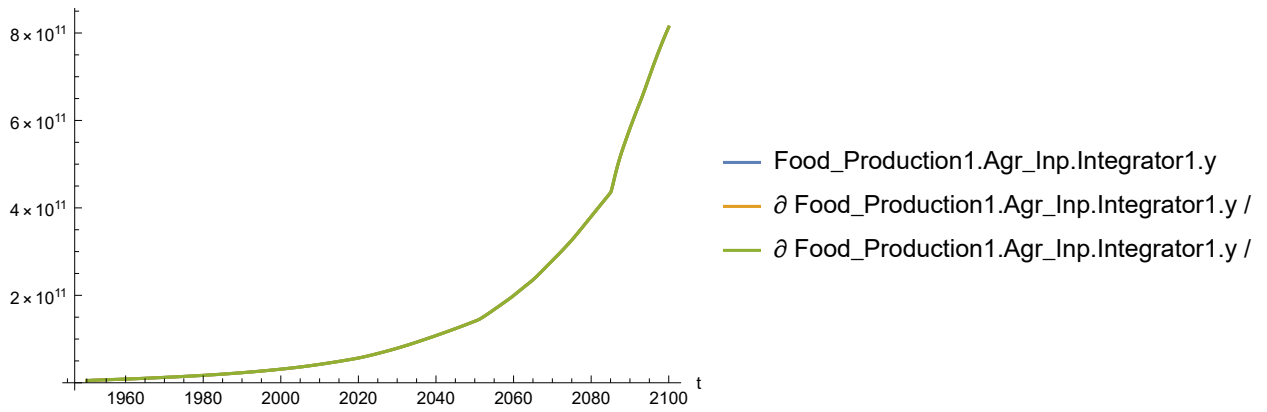
```
In[39]:= SystemModelPlot[simsensdata, {"Food_Production1.Agr_Inp.Integrator1.y",
"Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[6]", percentvar}]
```

Out[39]=



```
In[40]:= SystemModelPlot[simsensdata, {"Food_Production1.Agr_Inp.Integrator1.y",
"Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[7]", percentvar}]
```

Out[40]=

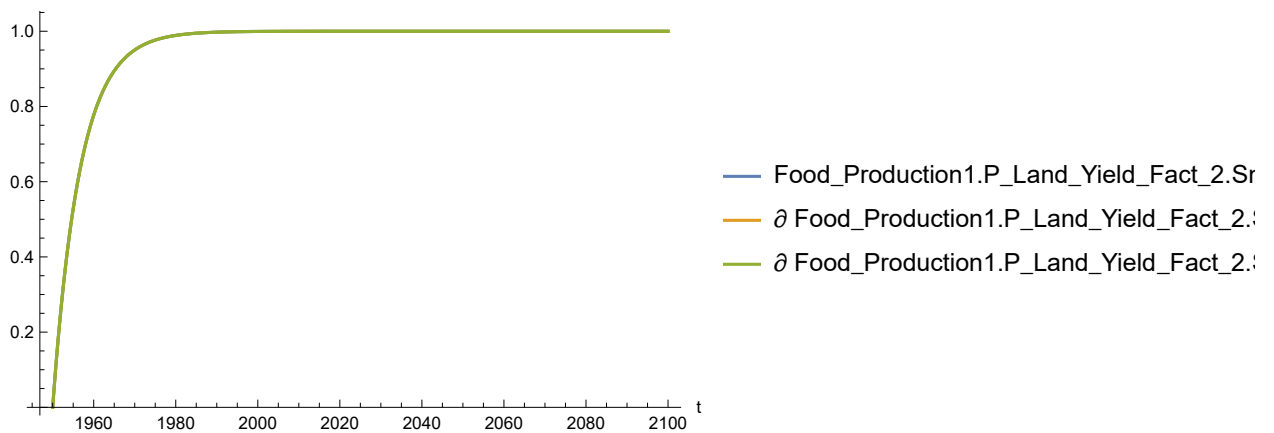


Plot sensitivity of **Food_Production1.P_Land_Yield_Fact2** to **Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals**.

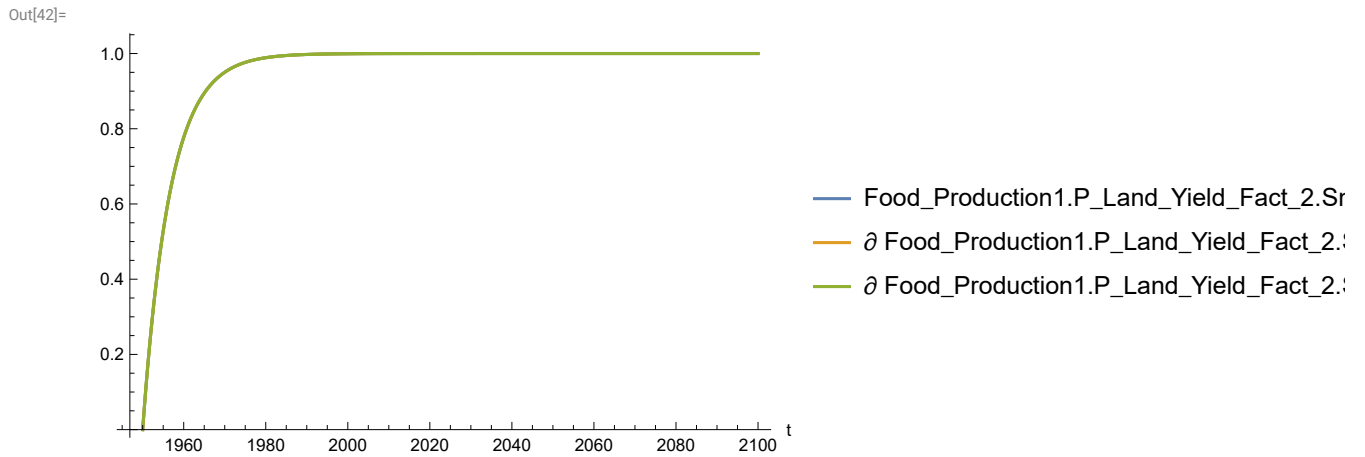
Plot the sensitivity of `Food_Production1.P_Land_Yield_Fact_2.SmoothN.Integrator1.y`, where $N = 1, 2, 3$, to variation in `Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals`.

```
In[41]:= SystemModelPlot[simsensdata,
{"Food_Production1.P_Land_Yield_Fact_2.Smooth1.Integrator1.y",
"Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[1]", percentvar}]
```

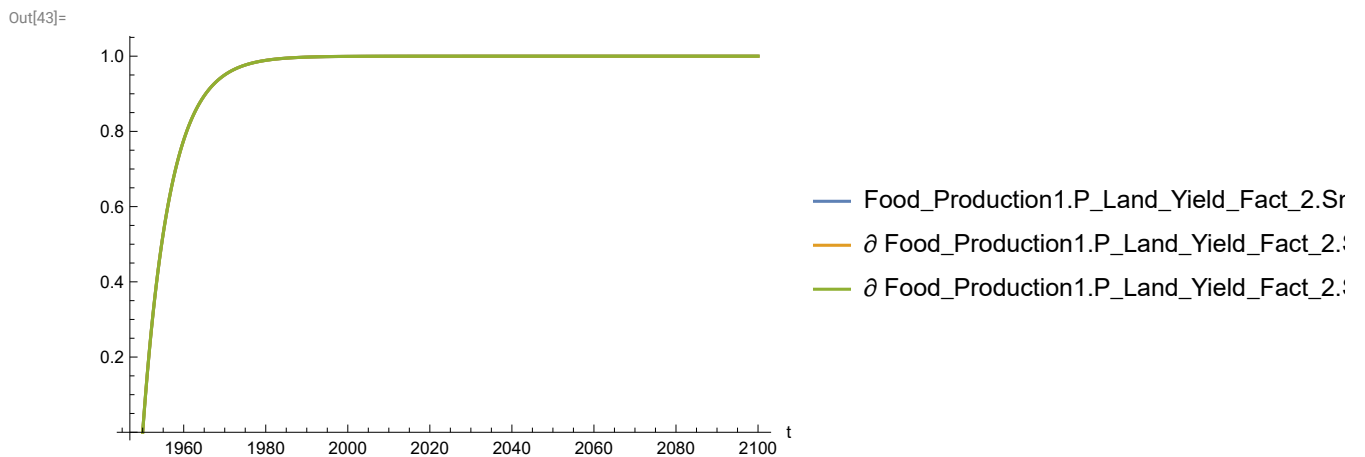
Out[41]=



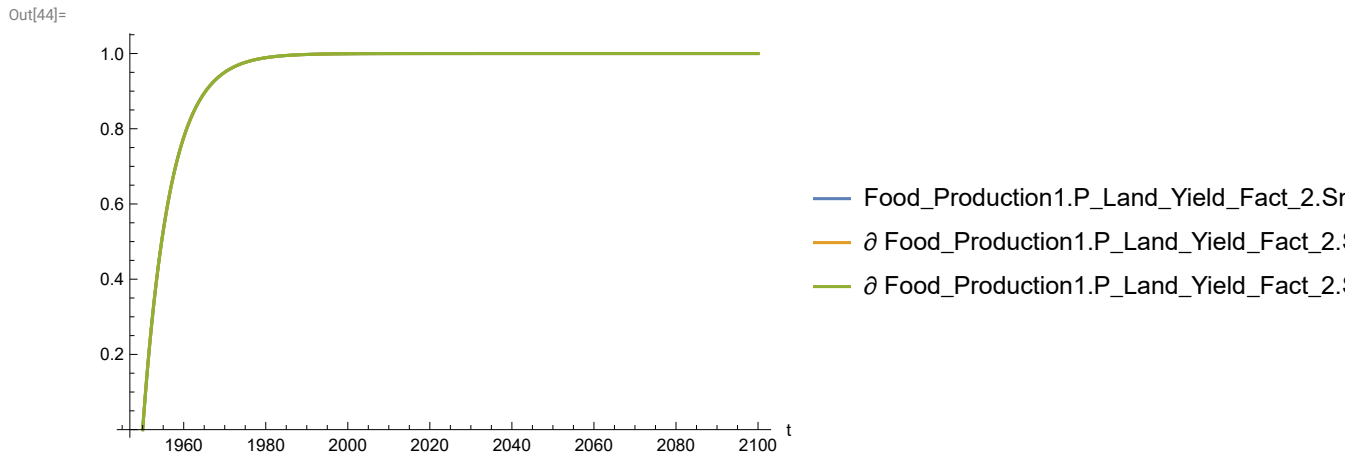
```
In[42]:= SystemModelPlot[simsensdata,
  {"Food_Production1.P_Land_Yield_Fact_2.Smooth1.Integrator1.y",
   "Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[2]", percentvar}]
```



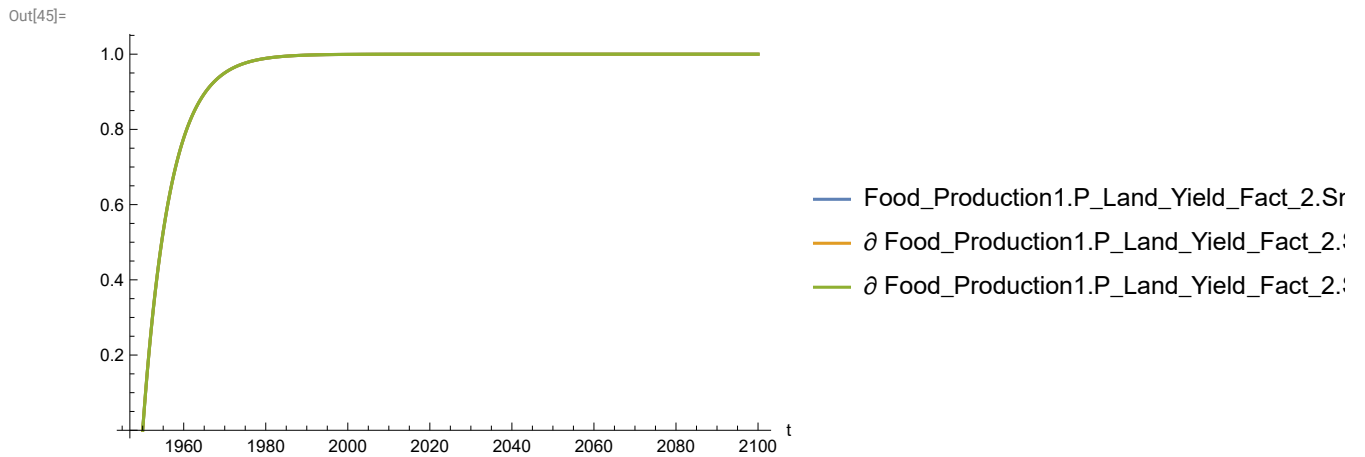
```
In[43]:= SystemModelPlot[simsensdata,
  {"Food_Production1.P_Land_Yield_Fact_2.Smooth1.Integrator1.y",
   "Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[3]", percentvar}]
```



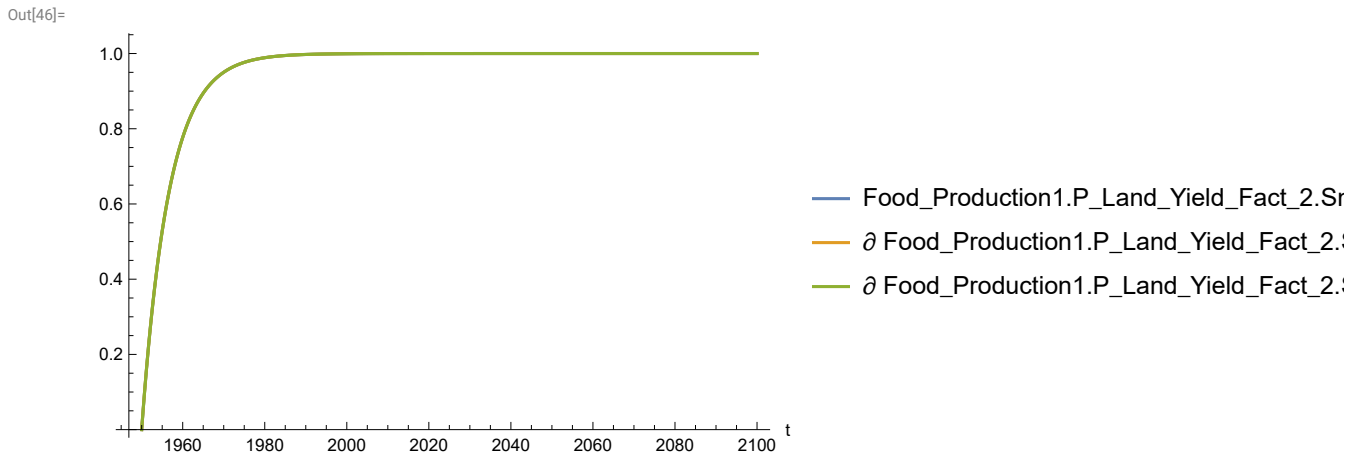
```
In[44]:= SystemModelPlot[simsensdata,
  {"Food_Production1.P_Land_Yield_Fact_2.Smooth1.Integrator1.y",
   "Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[4]", percentvar}]
```



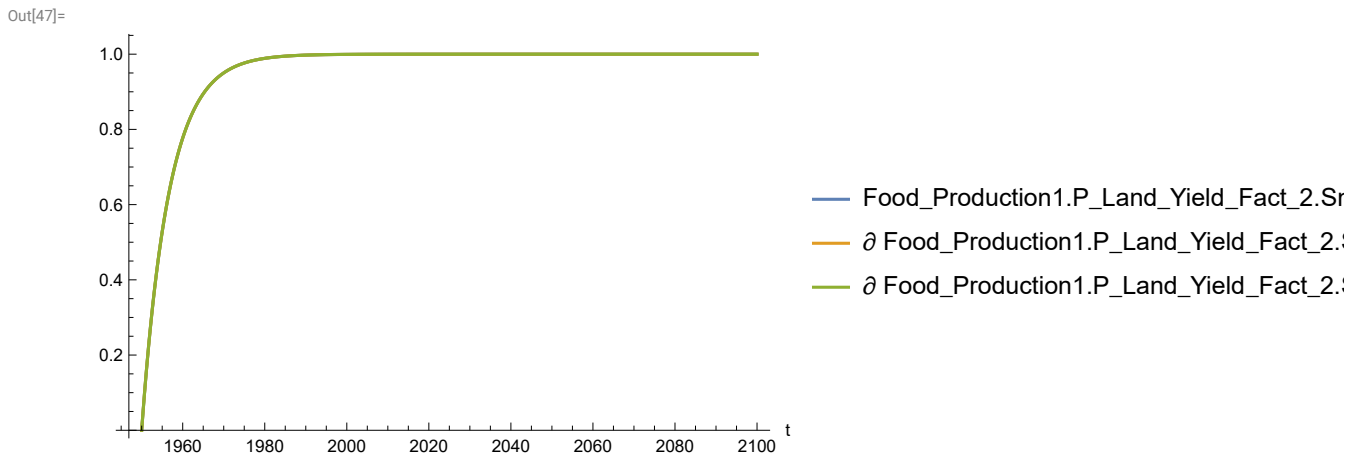
```
In[45]:= SystemModelPlot[simsensdata,
  {"Food_Production1.P_Land_Yield_Fact_2.Smooth1.Integrator1.y",
   "Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[5]", percentvar}]
```



```
In[46]:= SystemModelPlot[simsensdata,
  {"Food_Production1.P_Land_Yield_Fact_2.Smooth1.Integrator1.y",
   "Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[6]", percentvar}]
```

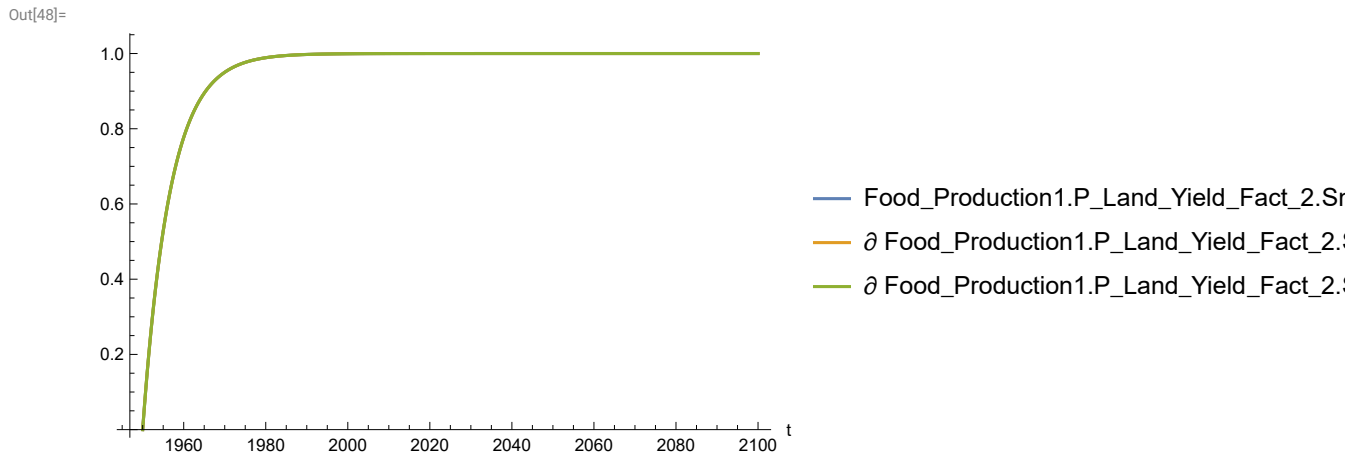


```
In[47]:= SystemModelPlot[simsensdata,
  {"Food_Production1.P_Land_Yield_Fact_2.Smooth1.Integrator1.y",
   "Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[7]", percentvar}]
```

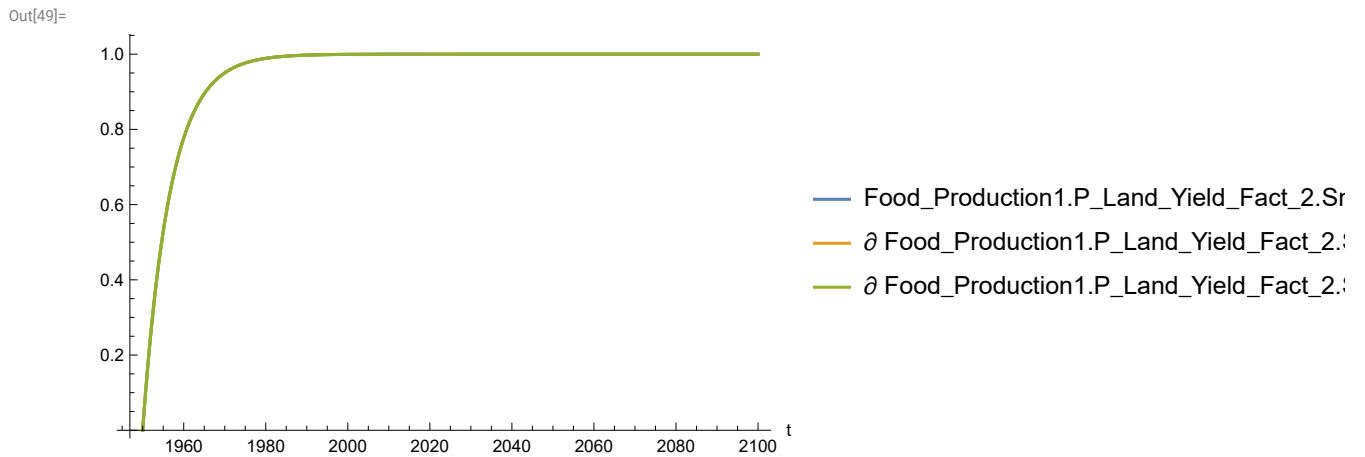


Plot the sensitivity of Food_Production1.P_Land_Yield_Fact_2.Smooth1.Integrator1.y to Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals.

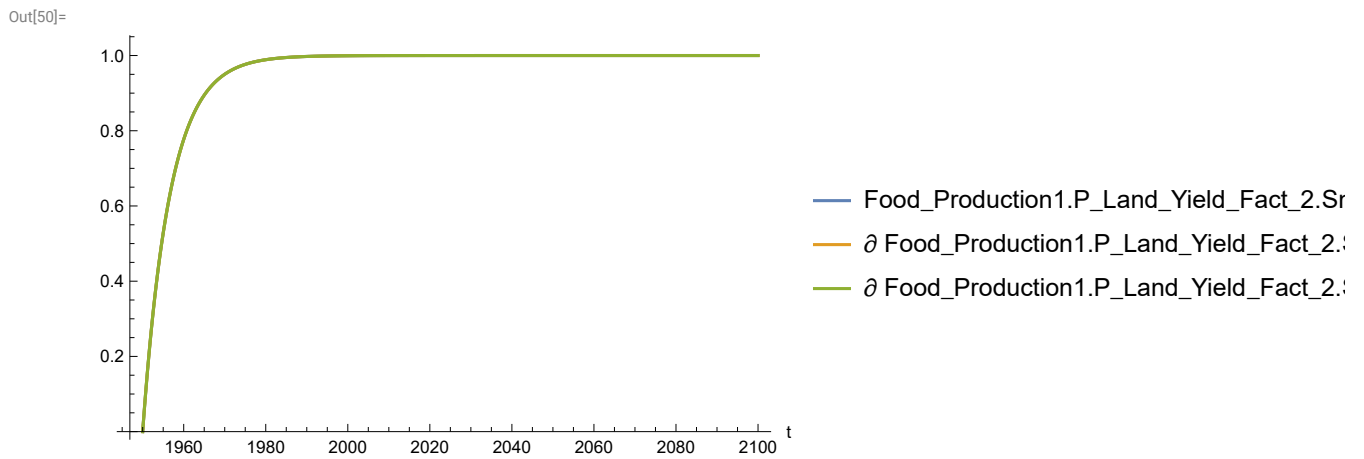
```
In[48]:= SystemModelPlot[simsensdata,
  {"Food_Production1.P_Land_Yield_Fact_2.Smooth1.Integrator1.y",
   "Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[1]", percentvar}]
```



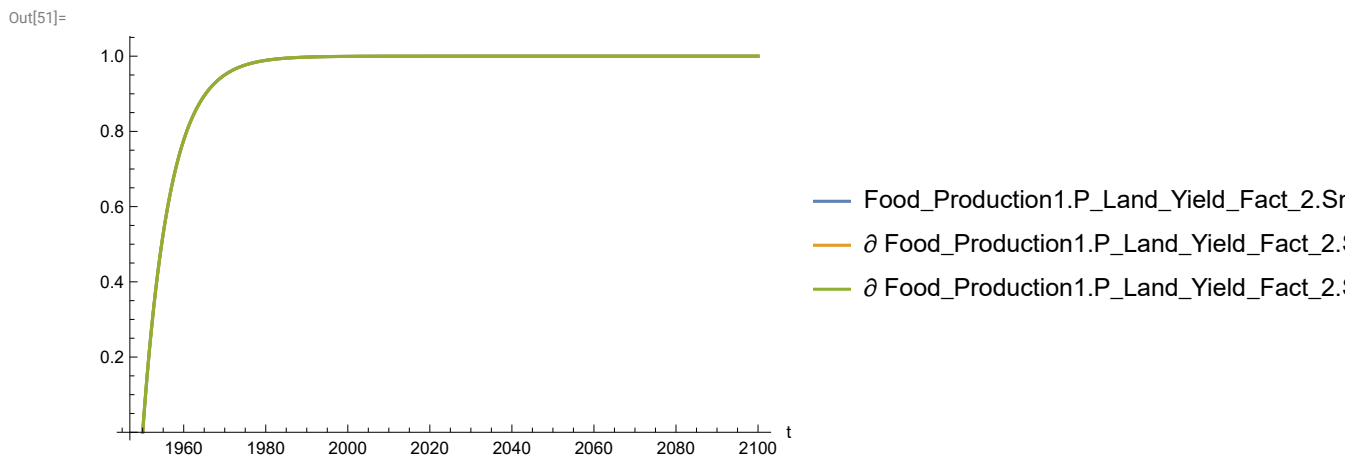
```
In[49]:= SystemModelPlot[simsensdata,
  {"Food_Production1.P_Land_Yield_Fact_2.Smooth1.Integrator1.y",
   "Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[2]", percentvar}]
```



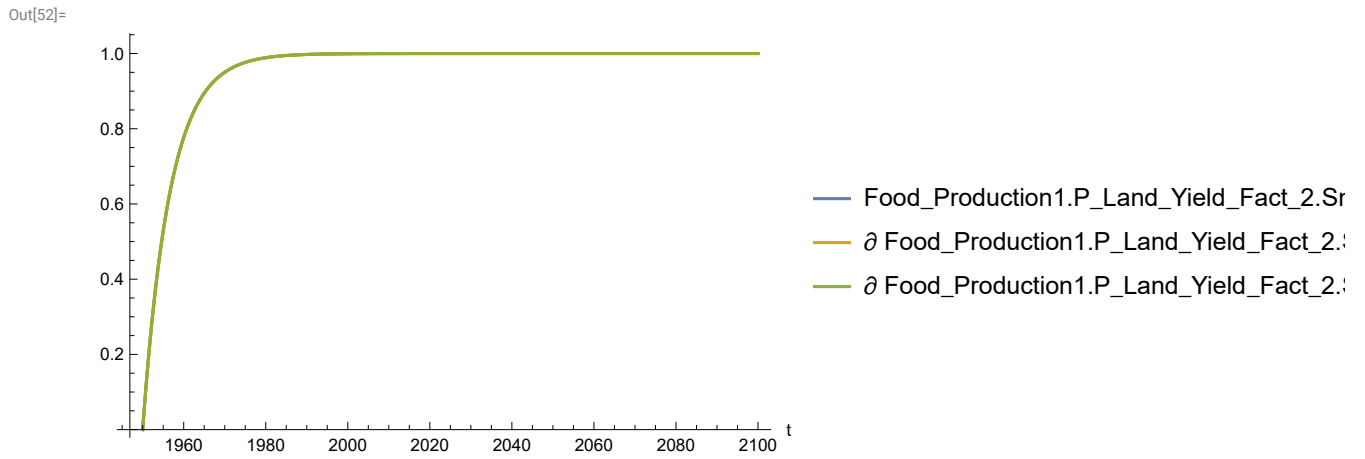
```
In[50]:= SystemModelPlot[simsensdata,
  {"Food_Production1.P_Land_Yield_Fact_2.Smooth1.Integrator1.y",
   "Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[3]", percentvar}]
```



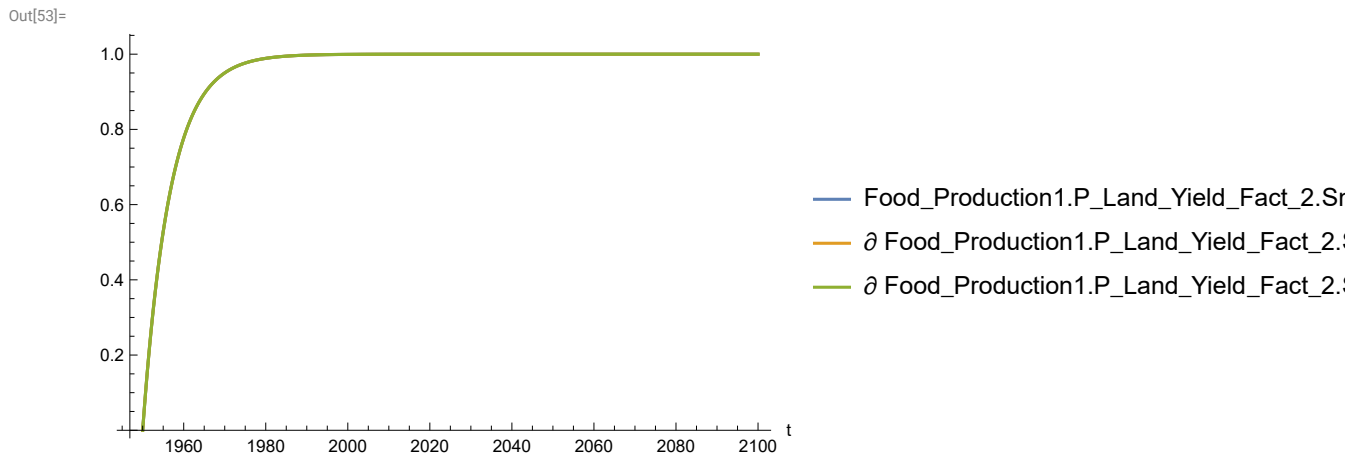
```
In[51]:= SystemModelPlot[simsensdata,
  {"Food_Production1.P_Land_Yield_Fact_2.Smooth1.Integrator1.y",
   "Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[4]", percentvar}]
```



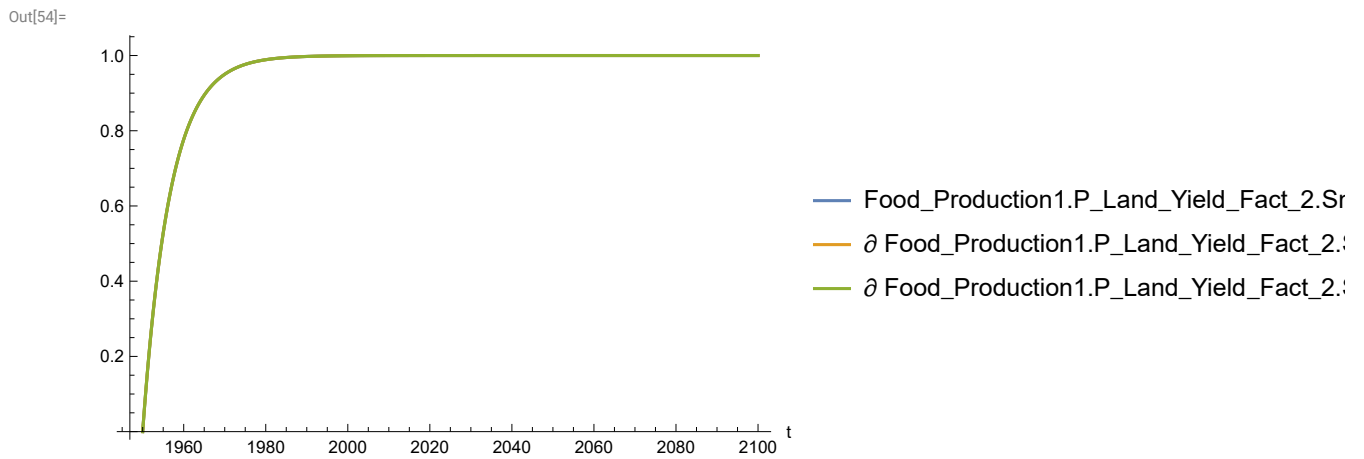

```
In[52]:= SystemModelPlot[simsensdata,
  {"Food_Production1.P_Land_Yield_Fact_2.Smooth1.Integrator1.y",
   "Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[5]", percentvar}]
```



```
In[53]:= SystemModelPlot[simsensdata,
  {"Food_Production1.P_Land_Yield_Fact_2.Smooth1.Integrator1.y",
   "Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[6]", percentvar}]
```

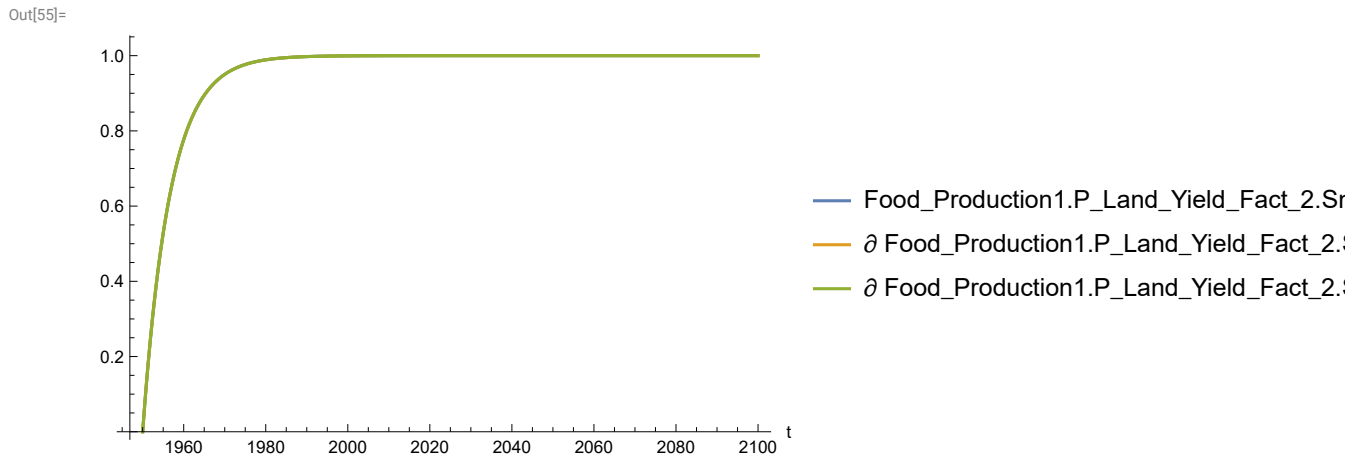


```
In[54]:= SystemModelPlot[simsensdata,
  {"Food_Production1.P_Land_Yield_Fact_2.Smooth1.Integrator1.y",
   "Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[7]", percentvar}]
```

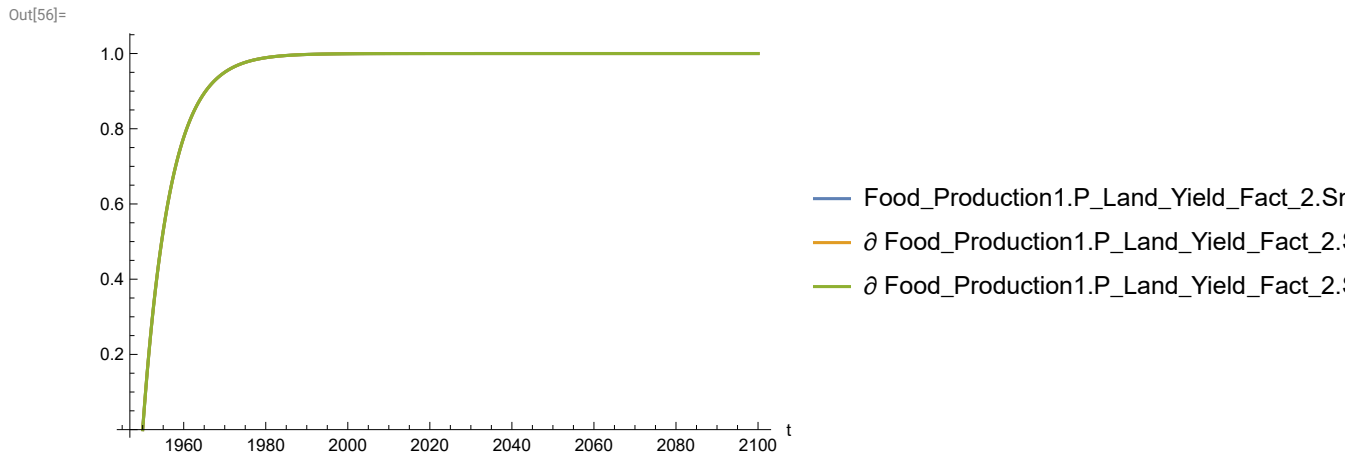


Plot the sensitivity of Food_Production1.P_Land_Yield_Fact_2.Smooth1.Integrator1.y to Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals.

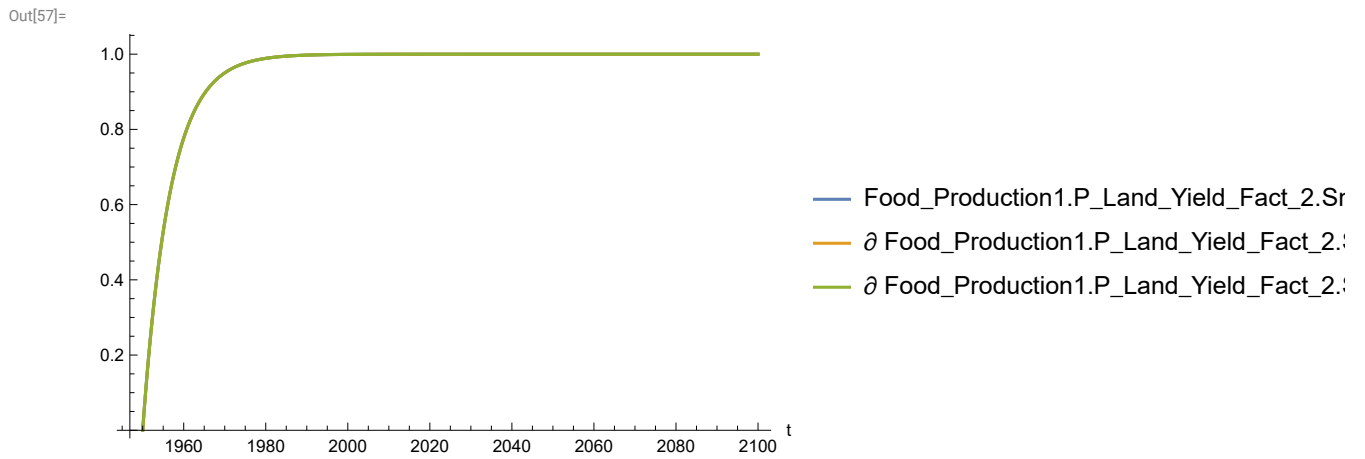
```
In[55]:= SystemModelPlot[simsensdata,
  {"Food_Production1.P_Land_Yield_Fact_2.Smooth1.Integrator1.y",
   "Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[1]", percentvar}]
```



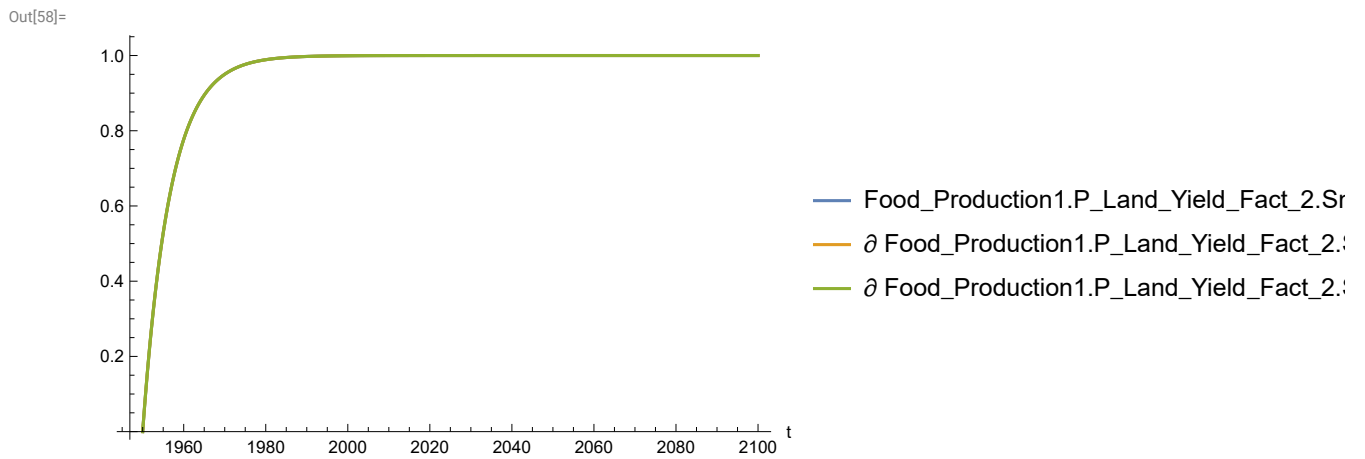
```
In[56]:= SystemModelPlot[simsensdata,
  {"Food_Production1.P_Land_Yield_Fact_2.Smooth1.Integrator1.y",
   "Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[2]", percentvar}]
```



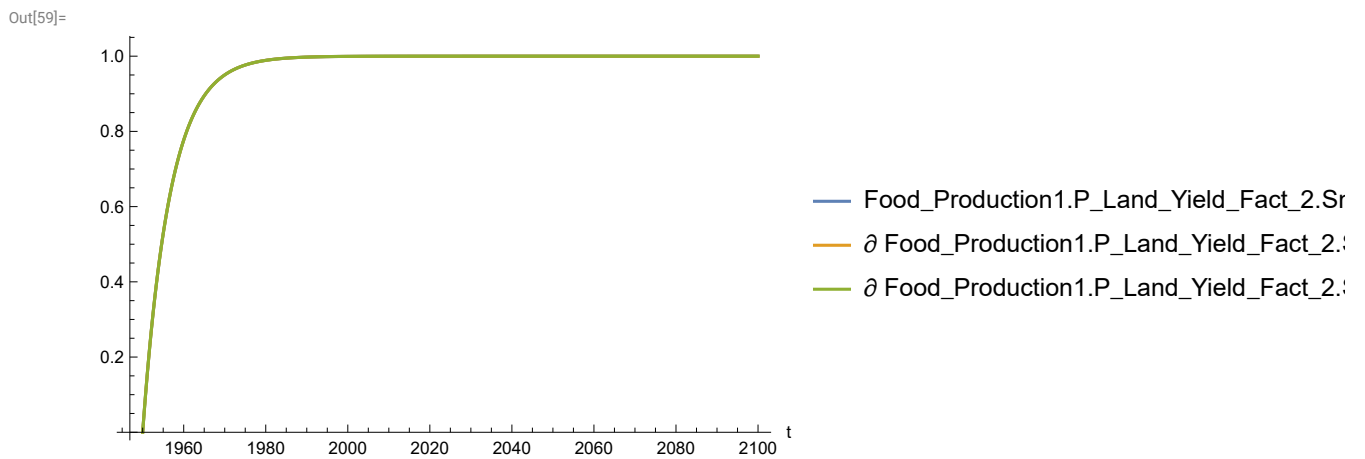
```
In[57]:= SystemModelPlot[simsensdata,
  {"Food_Production1.P_Land_Yield_Fact_2.Smooth1.Integrator1.y",
   "Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[3]", percentvar}]
```



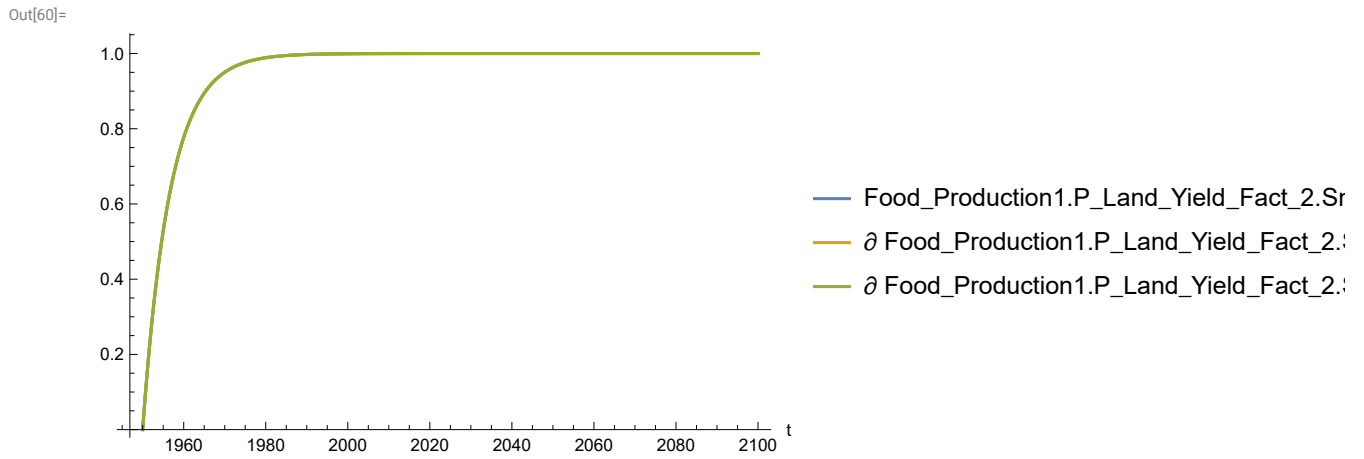
```
In[58]:= SystemModelPlot[simsensdata,
  {"Food_Production1.P_Land_Yield_Fact_2.Smooth1.Integrator1.y",
   "Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[4]", percentvar}]
```



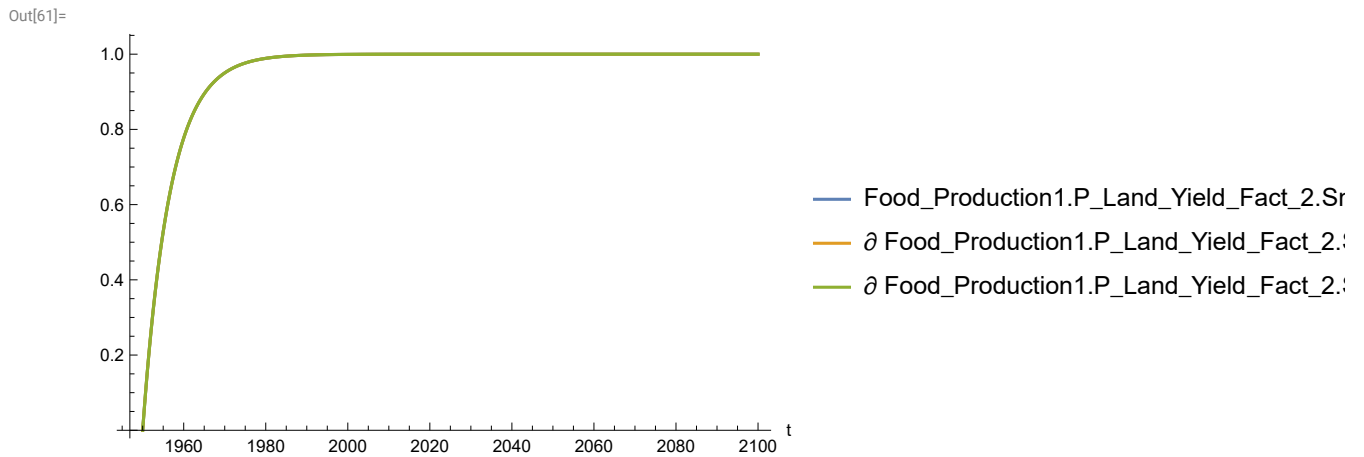
```
In[59]:= SystemModelPlot[simsensdata,
  {"Food_Production1.P_Land_Yield_Fact_2.Smooth1.Integrator1.y",
   "Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[5]", percentvar}]
```



```
In[60]:= SystemModelPlot[simsensdata,
  {"Food_Production1.P_Land_Yield_Fact_2.Smooth1.Integrator1.y",
   "Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[6]", percentvar}]
```

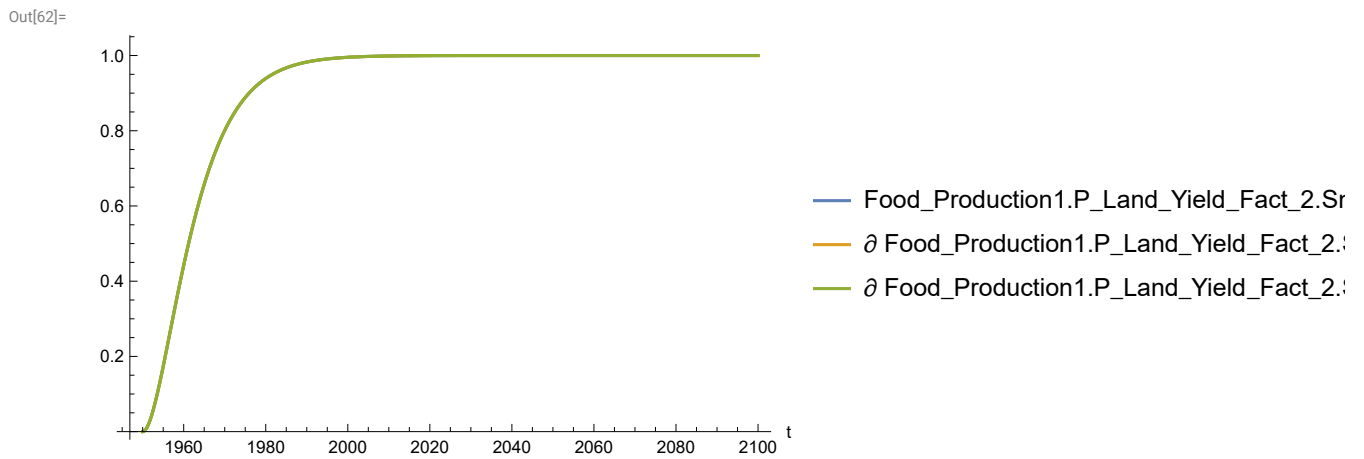


```
In[61]:= SystemModelPlot[simsensdata,
  {"Food_Production1.P_Land_Yield_Fact_2.Smooth1.Integrator1.y",
   "Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[7]", percentvar}]
```

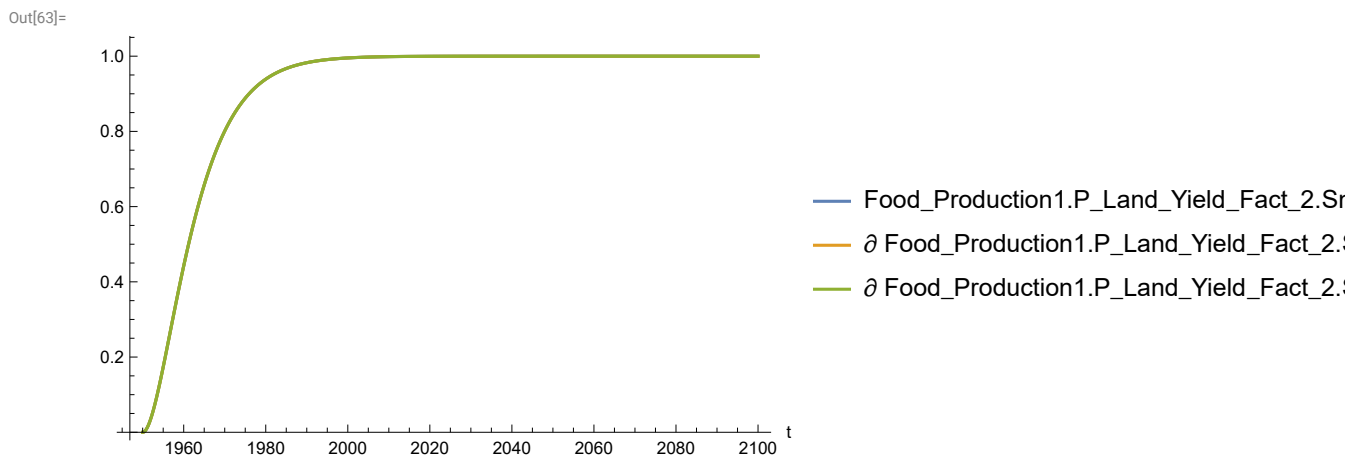


Plot the sensitivity of Food_Production1.P_Land_Yield_Fact_2.Smooth2.Integrator1.y to Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals.

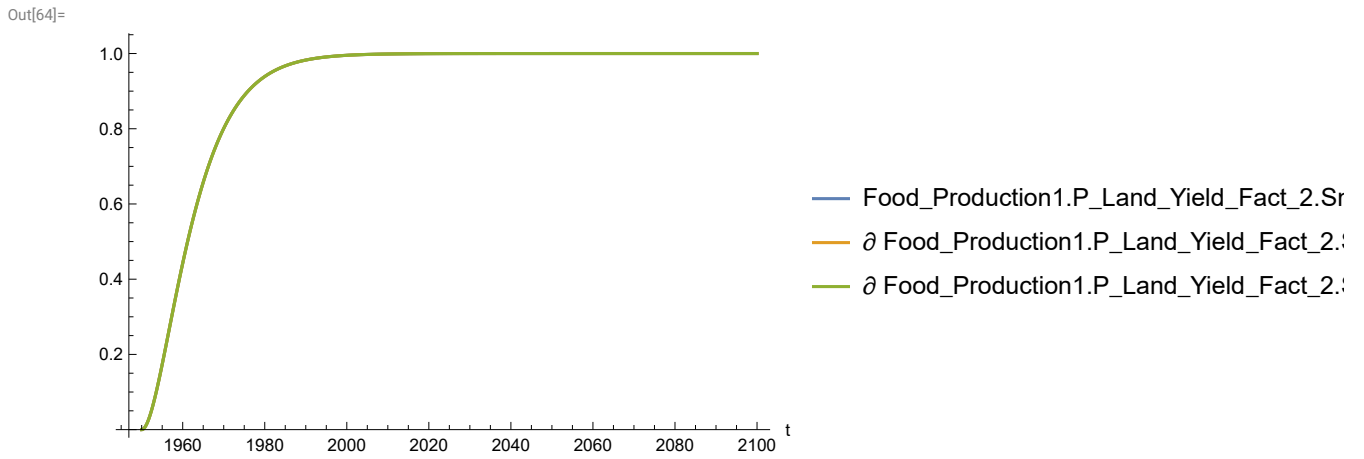
```
In[62]:= SystemModelPlot[simsensdata,
  {"Food_Production1.P_Land_Yield_Fact_2.Smooth2.Integrator1.y",
   "Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[1]", percentvar}]
```



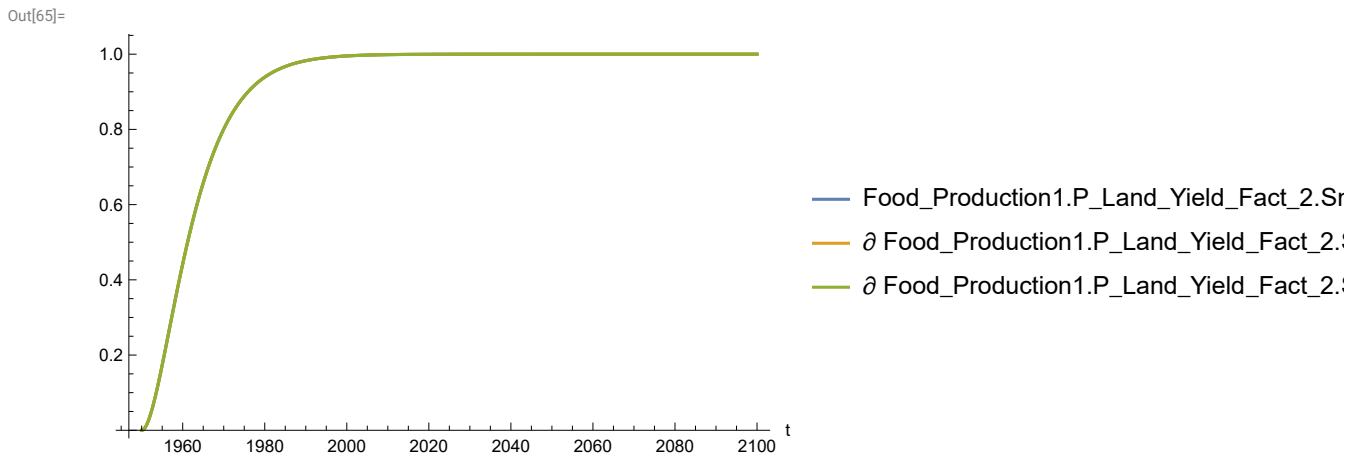
```
In[63]:= SystemModelPlot[simsensdata,
  {"Food_Production1.P_Land_Yield_Fact_2.Smooth2.Integrator1.y",
   "Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[2]", percentvar}]
```



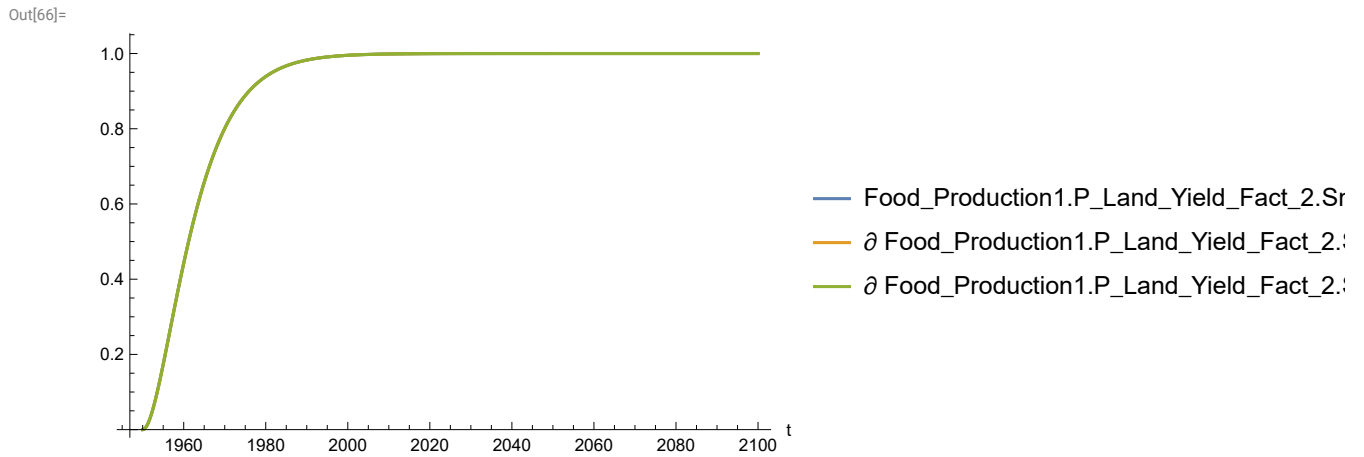
```
In[64]:= SystemModelPlot[simsensdata,
  {"Food_Production1.P_Land_Yield_Fact_2.Smooth2.Integrator1.y",
   "Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[3]", percentvar}]
```



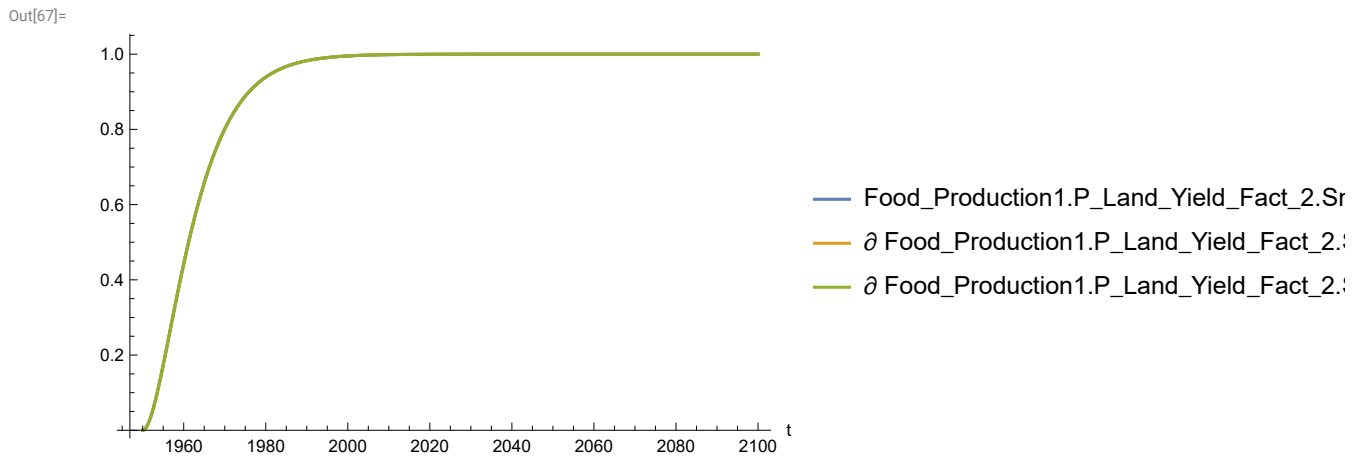
```
In[65]:= SystemModelPlot[simsensdata,
  {"Food_Production1.P_Land_Yield_Fact_2.Smooth2.Integrator1.y",
   "Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[4]", percentvar}]
```



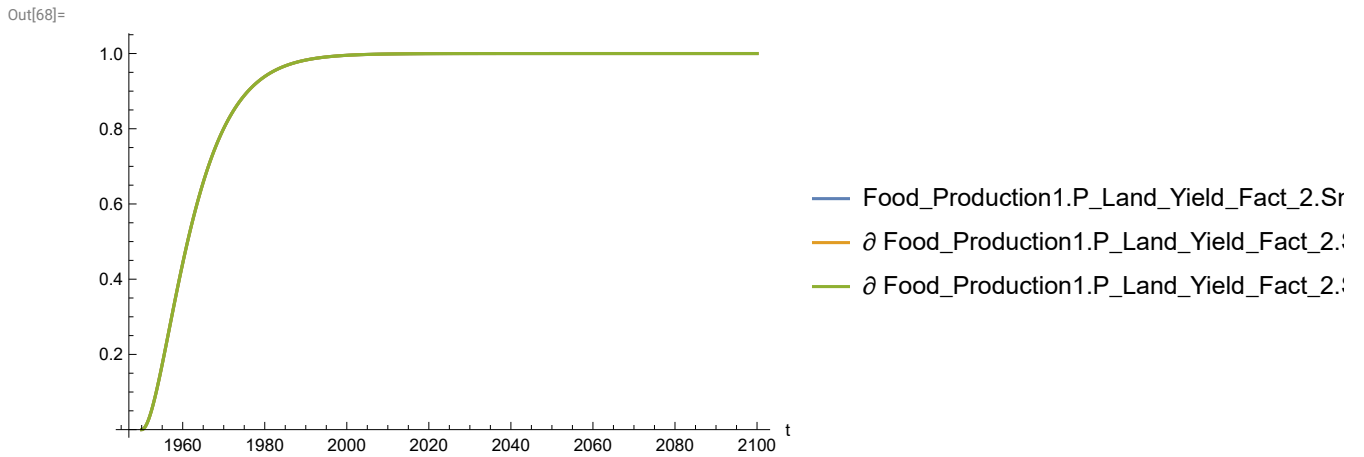
```
In[66]:= SystemModelPlot[simsensdata,
  {"Food_Production1.P_Land_Yield_Fact_2.Smooth2.Integrator1.y",
   "Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[5]", percentvar}]
```



```
In[67]:= SystemModelPlot[simsensdata,
  {"Food_Production1.P_Land_Yield_Fact_2.Smooth2.Integrator1.y",
   "Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[6]", percentvar}]
```

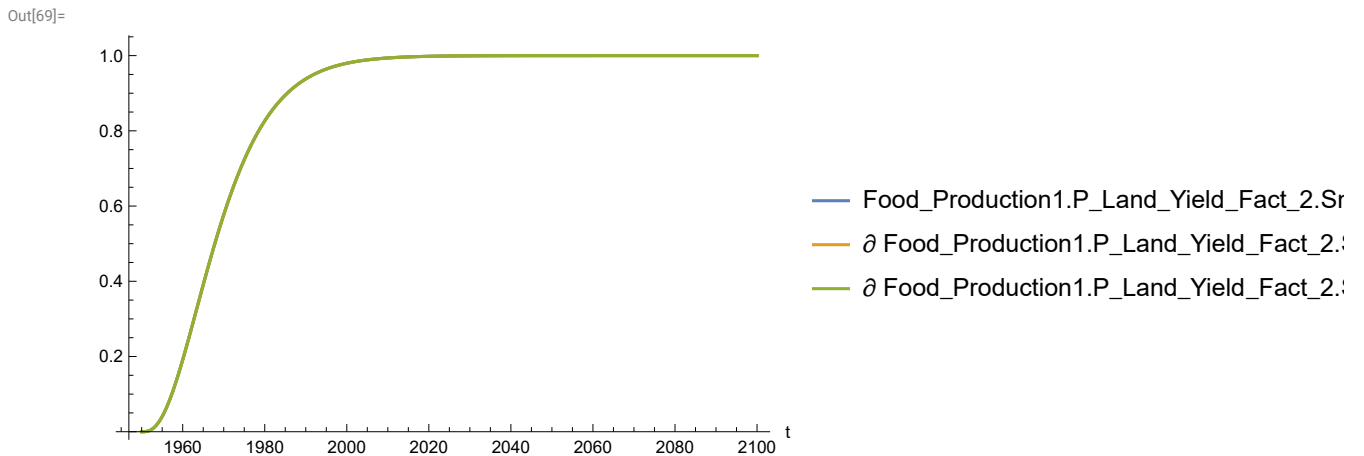



```
In[68]:= SystemModelPlot[simsensdata,
  {"Food_Production1.P_Land_Yield_Fact_2.Smooth2.Integrator1.y",
   "Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[7]", percentvar}]
```

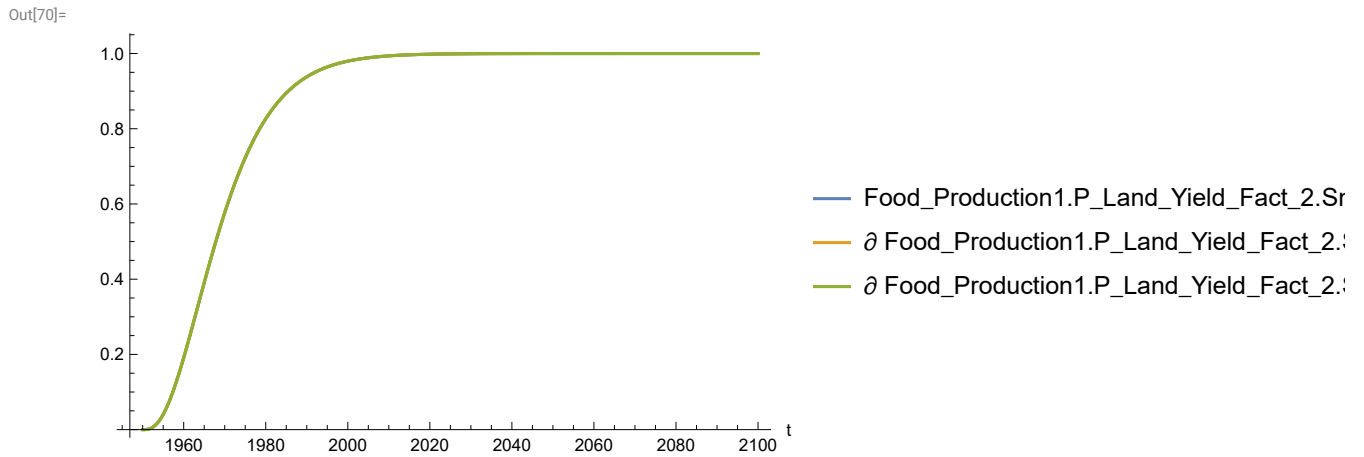


Plot sensitivity of **Food_Production1.P_Land_Yield_Fact_2.Smooth3.Integrator1.y** to Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals

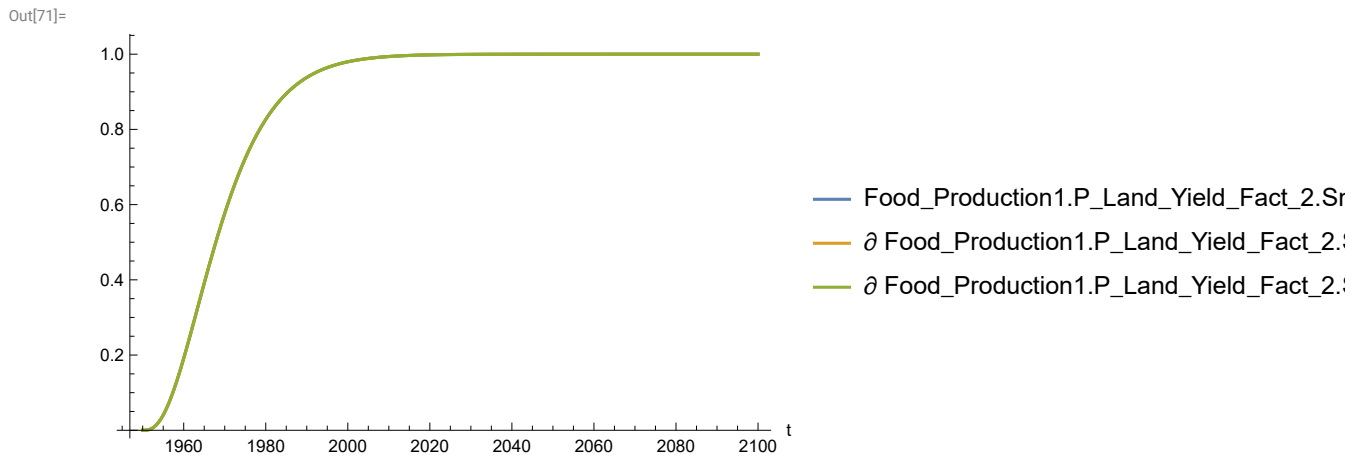
```
In[69]:= SystemModelPlot[simsensdata,
  {"Food_Production1.P_Land_Yield_Fact_2.Smooth3.Integrator1.y",
   "Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[1]", percentvar}]
```



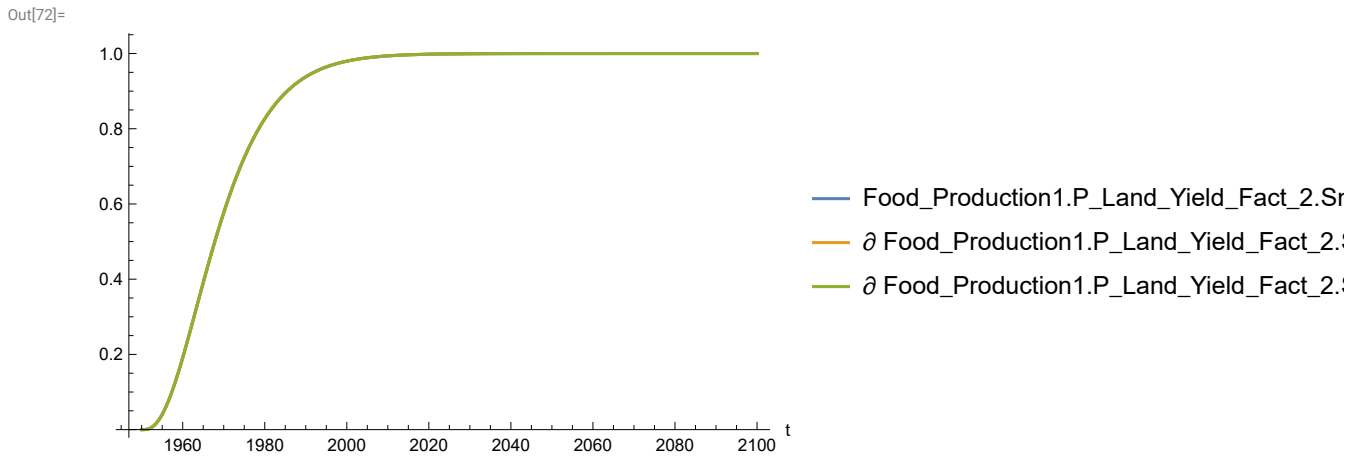
```
In[70]:= SystemModelPlot[simsensdata,
  {"Food_Production1.P_Land_Yield_Fact_2.Smooth3.Integrator1.y",
   "Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[2]", percentvar}]
```



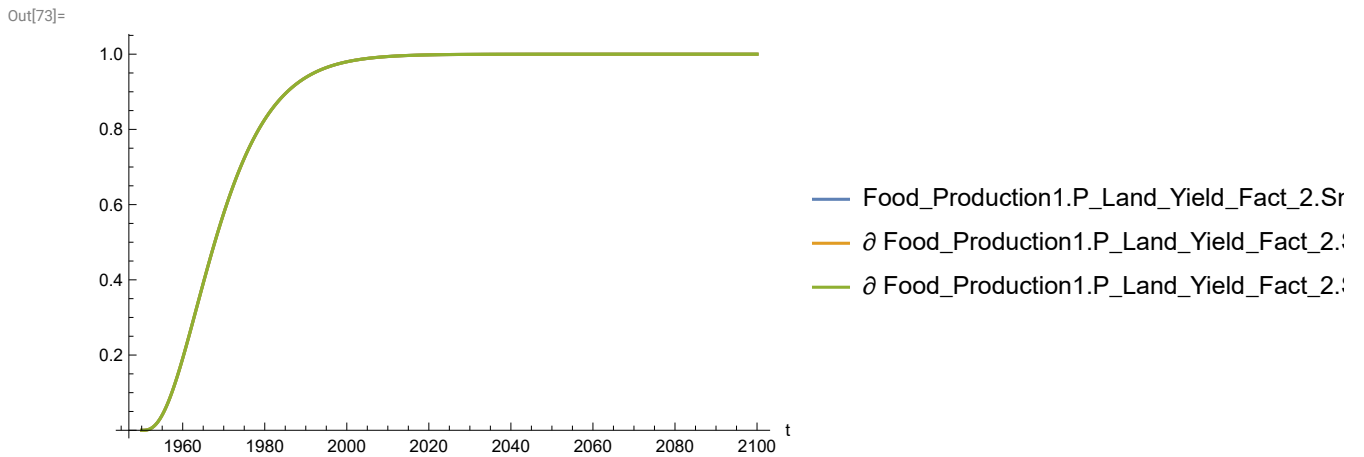
```
In[71]:= SystemModelPlot[simsensdata,
  {"Food_Production1.P_Land_Yield_Fact_2.Smooth3.Integrator1.y",
   "Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[3]", percentvar}]
```



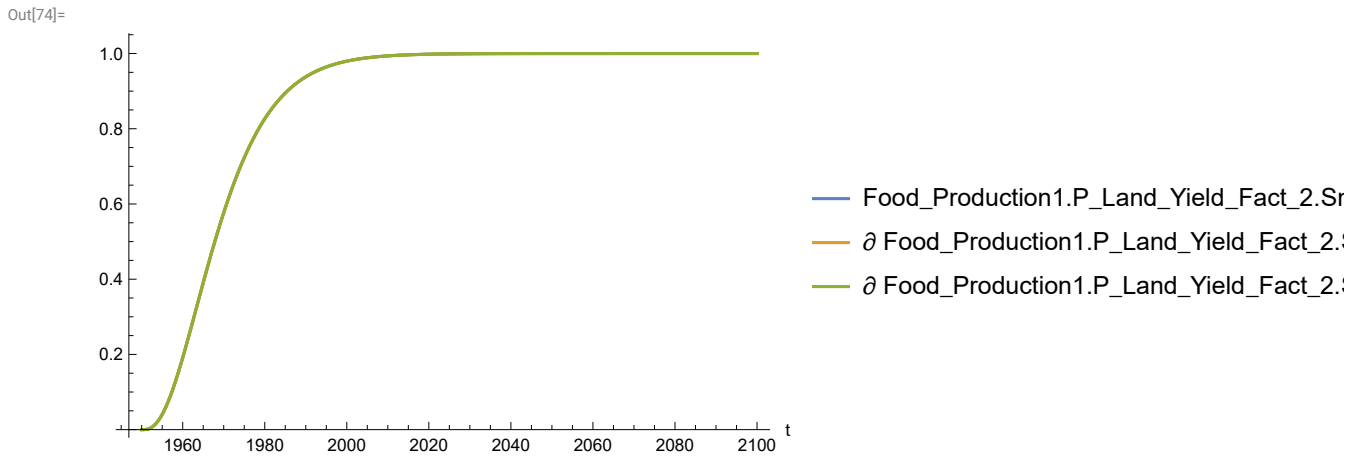
```
In[72]:= SystemModelPlot[simsensdata,
  {"Food_Production1.P_Land_Yield_Fact_2.Smooth3.Integrator1.y",
   "Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[4]", percentvar}]
```



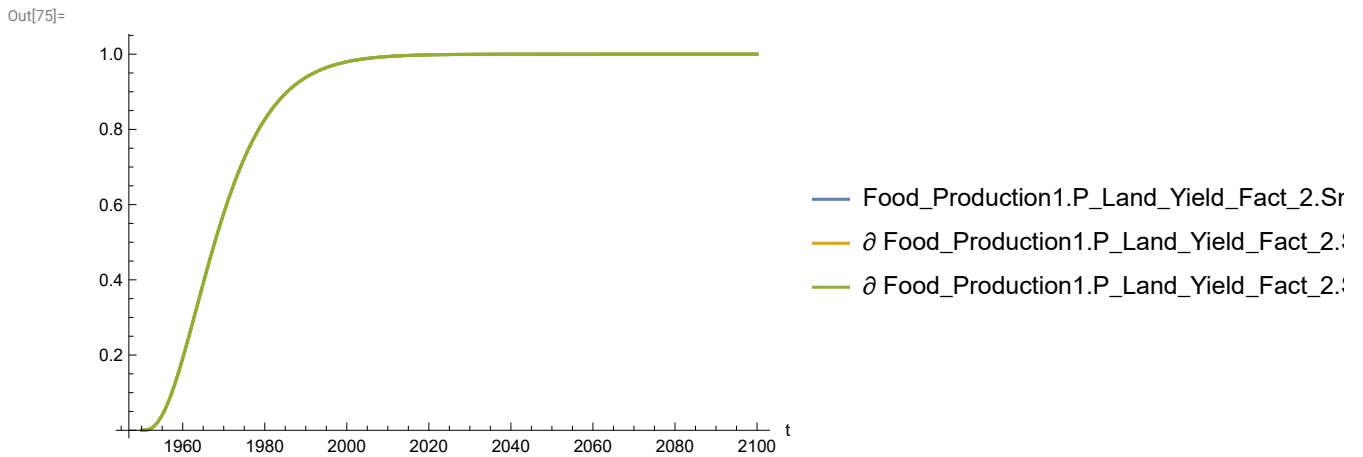
```
In[73]:= SystemModelPlot[simsensdata,
  {"Food_Production1.P_Land_Yield_Fact_2.Smooth3.Integrator1.y",
   "Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[5]", percentvar}]
```



```
In[74]:= SystemModelPlot[simsensdata,
  {"Food_Production1.P_Land_Yield_Fact_2.Smooth3.Integrator1.y",
   "Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[6]", percentvar}]
```



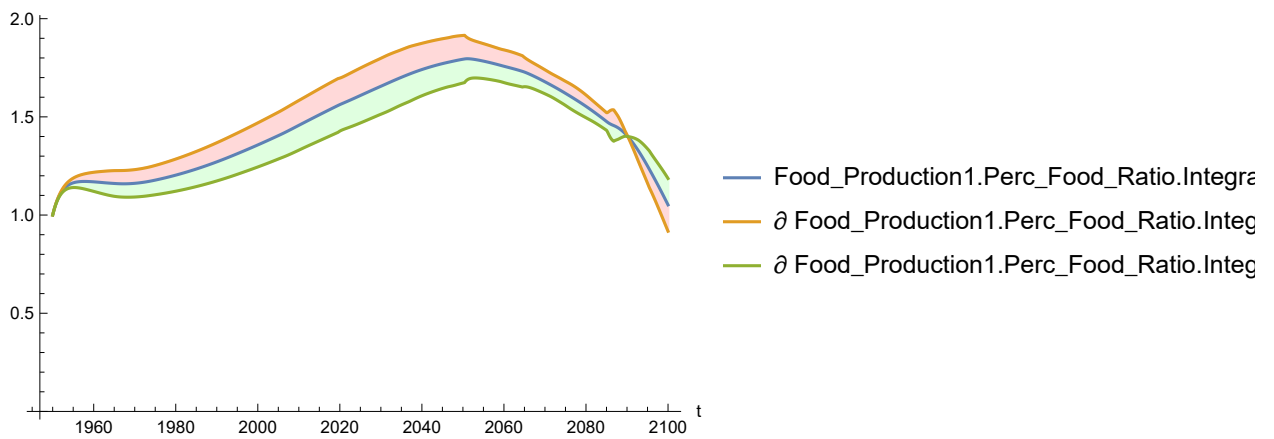
```
In[75]:= SystemModelPlot[simsensdata,
  {"Food_Production1.P_Land_Yield_Fact_2.Smooth3.Integrator1.y",
   "Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[7]", percentvar}]
```



Plot sensitivity of **Food_Production1.Perc_Food_Ratio.Integrator1.y** to **Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals**

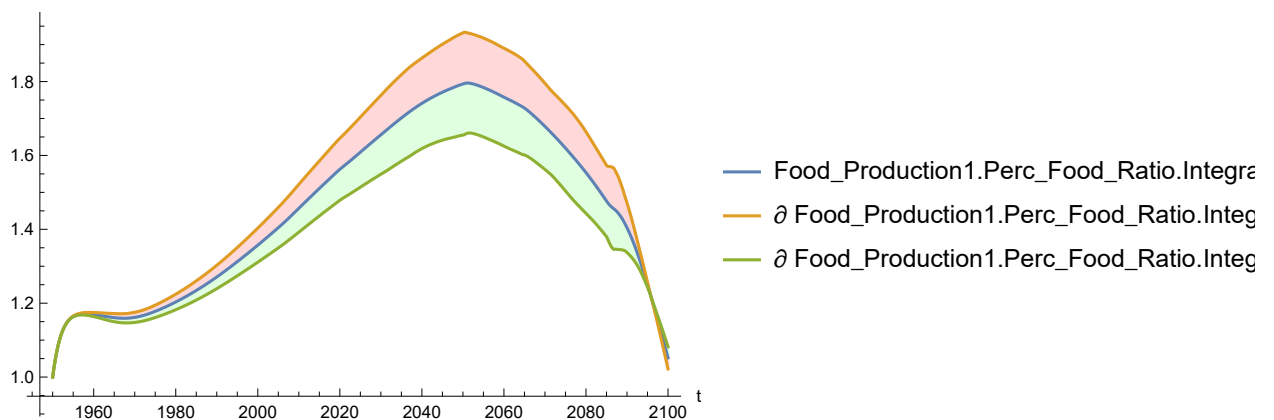
```
In[76]:= SystemModelPlot[simsensdata, {"Food_Production1.Perc_Food_Ratio.Integrator1.y",
"Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[1]", percentvar}]
```

Out[76]=



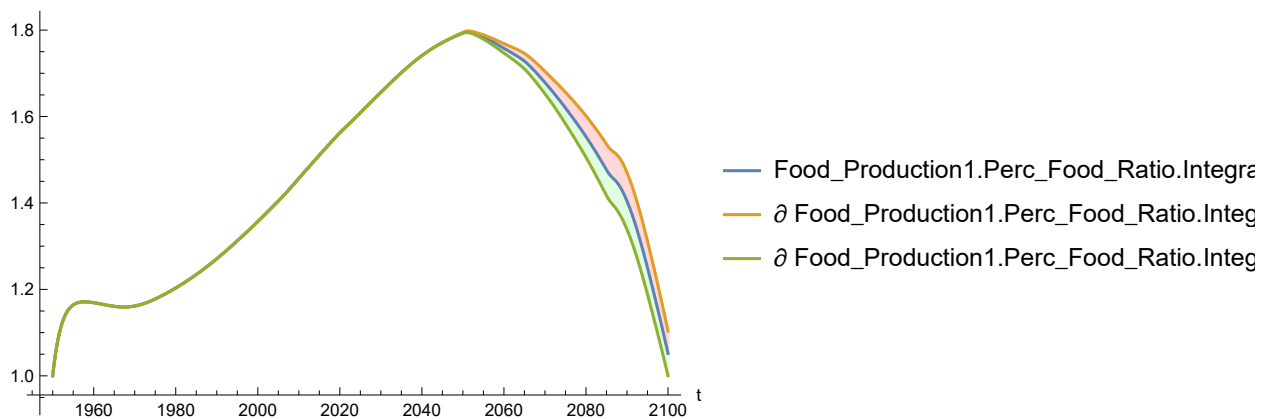
```
In[77]:= SystemModelPlot[simsensdata, {"Food_Production1.Perc_Food_Ratio.Integrator1.y",
"Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[2]", percentvar}]
```

Out[77]=



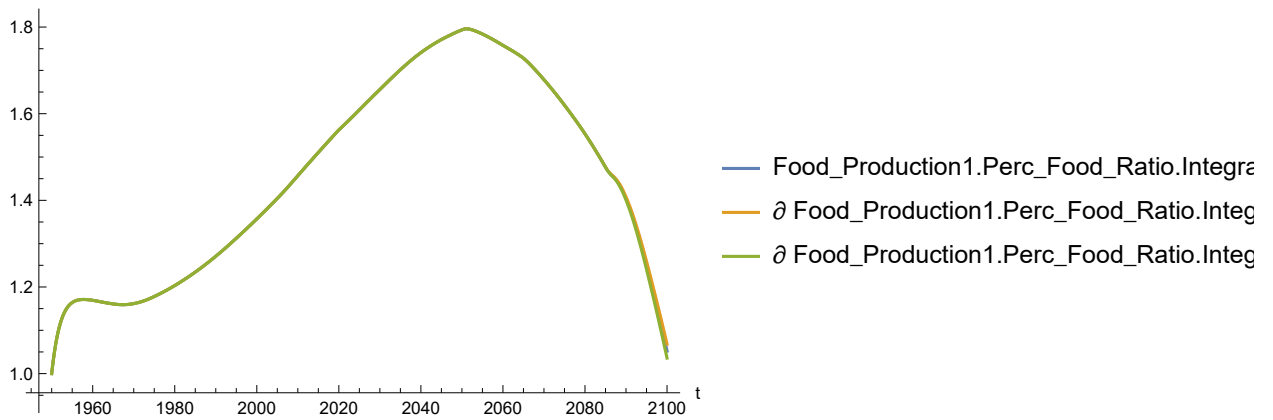
```
In[78]:= SystemModelPlot[simsensdata, {"Food_Production1.Perc_Food_Ratio.Integrator1.y",
"Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[3]", percentvar}]
```

Out[78]=



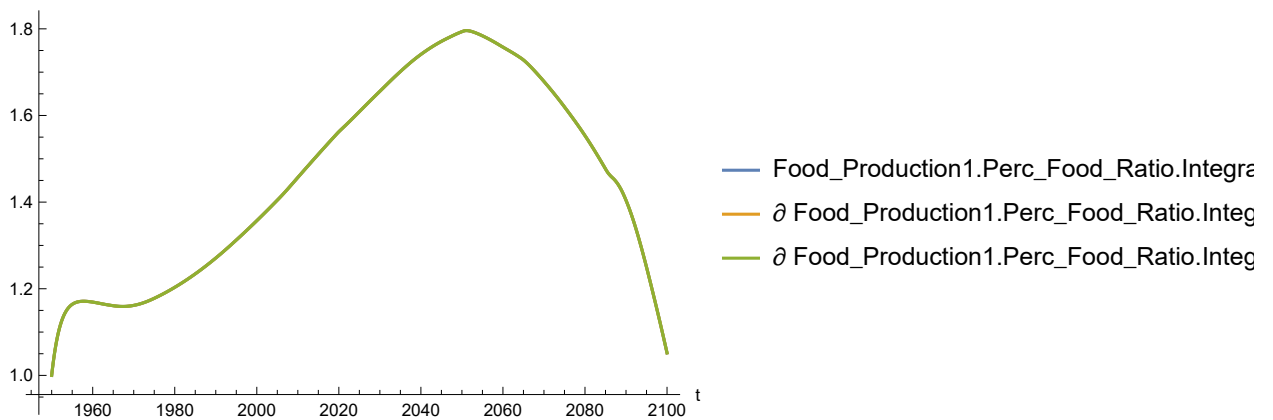
```
In[79]:= SystemModelPlot[simsensdata, {"Food_Production1.Perc_Food_Ratio.Integrator1.y",
"Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[4]", percentvar}]
```

Out[79]=



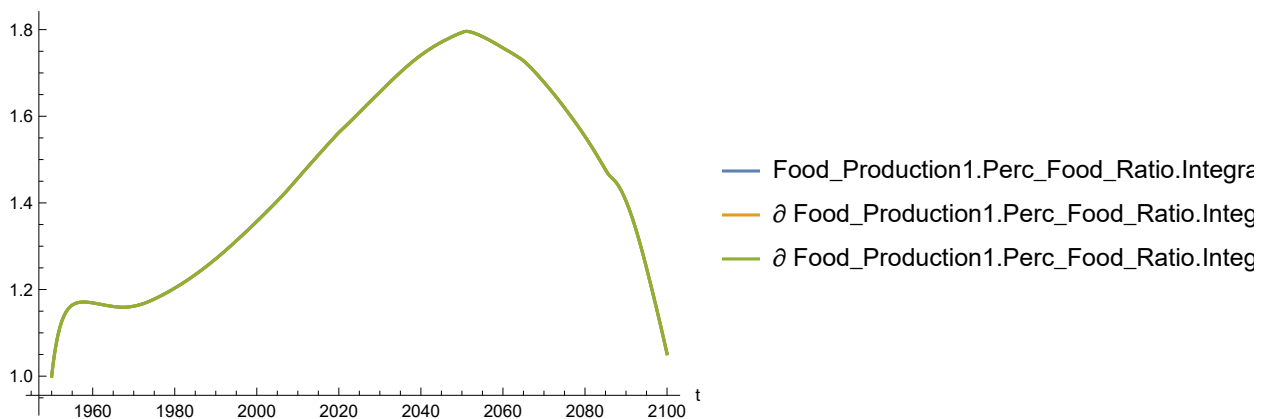
```
In[80]:= SystemModelPlot[simsensdata, {"Food_Production1.Perc_Food_Ratio.Integrator1.y",
"Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[5]", percentvar}]
```

Out[80]=



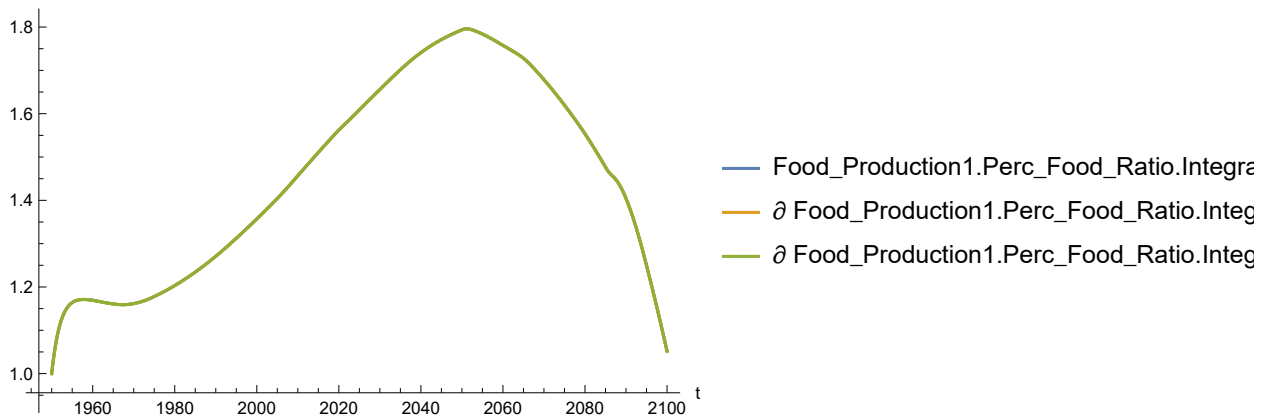
```
In[81]:= SystemModelPlot[simsensdata, {"Food_Production1.Perc_Food_Ratio.Integrator1.y",
"Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[6]", percentvar}]
```

Out[81]=



```
In[82]:= SystemModelPlot[simsensdata, {"Food_Production1.Perc_Food_Ratio.Integrator1.y",
"Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[7]", percentvar}]
```

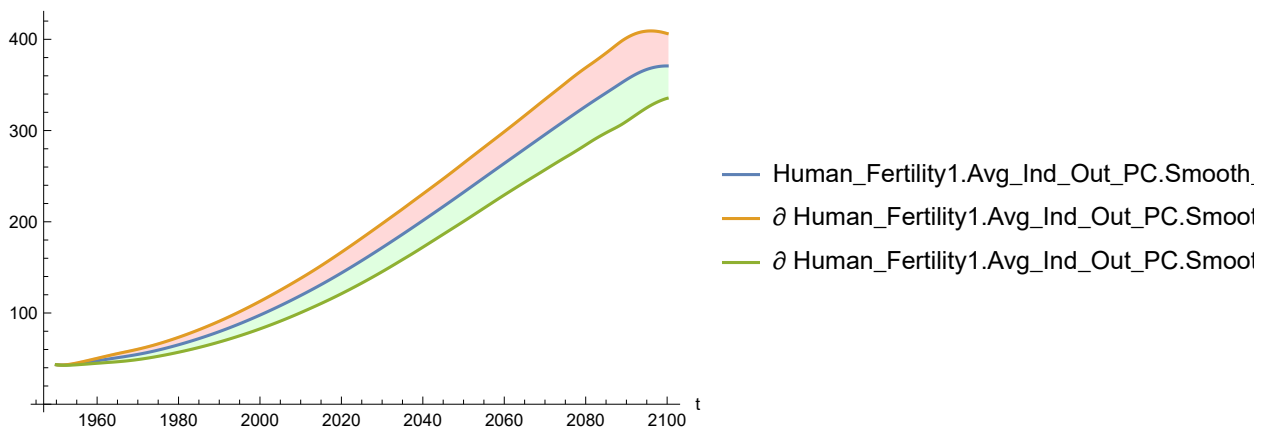
Out[82]=



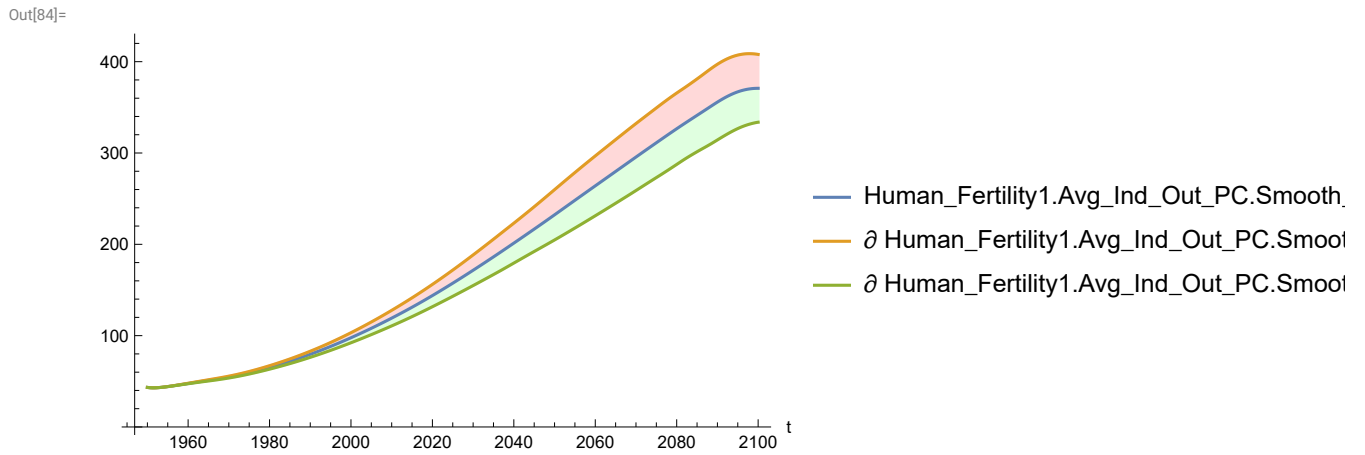
Plot the sensitivity of Human_Fertility1.Avg_Ind_Out_PC.Smooth_of_Input.Integrator1.y to Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals.

```
In[83]:= SystemModelPlot[simsensdata, {"Human_Fertility1.Avg_Ind_Out_PC.Smooth_of_Input.Integrator1.y",
"Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[1]", percentvar}]
```

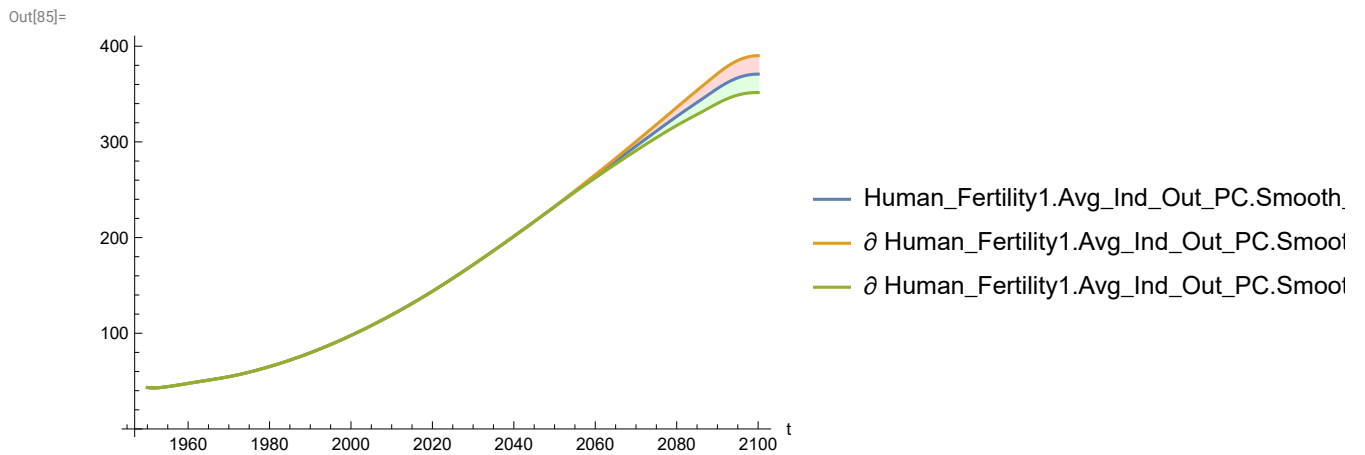
Out[83]=



```
In[84]:= SystemModelPlot[simsensdata,
  {"Human_Fertility1.Avg_Ind_Out_PC.Smooth_of_Input.Integrator1.y",
   "Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[2]", percentvar}]
```

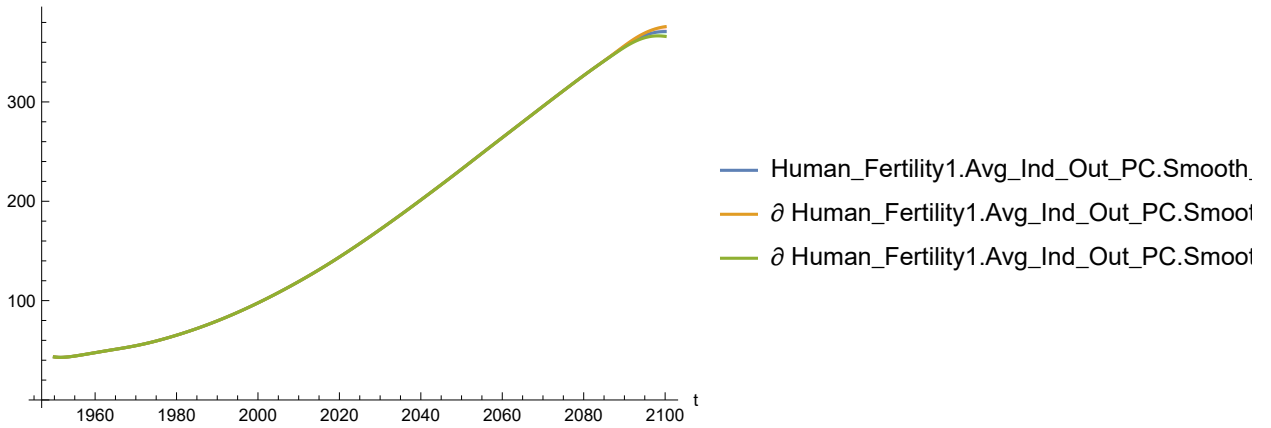


```
In[85]:= SystemModelPlot[simsensdata,
  {"Human_Fertility1.Avg_Ind_Out_PC.Smooth_of_Input.Integrator1.y",
   "Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[3]", percentvar}]
```



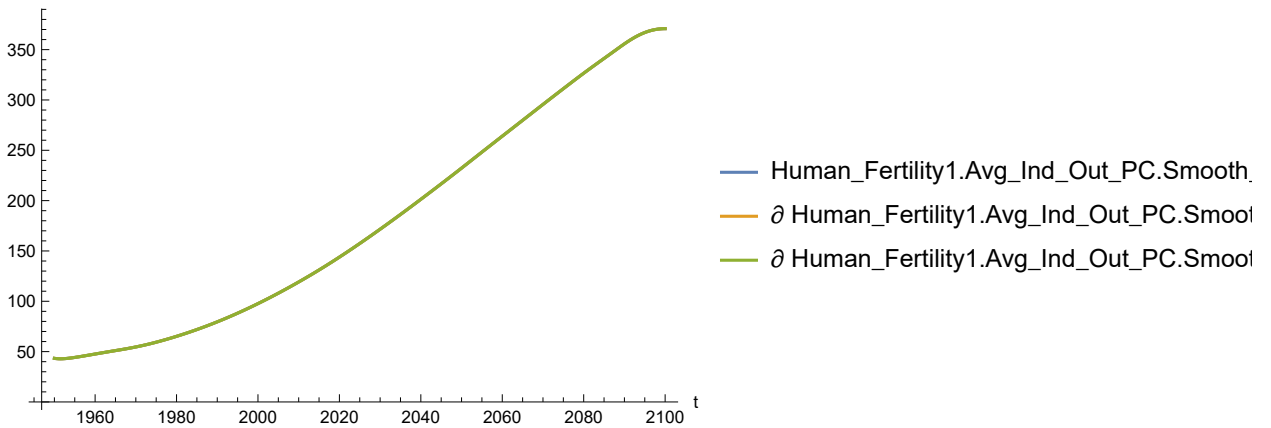

```
In[86]:= SystemModelPlot[simsensdata,
  {"Human_Fertility1.Avg_Ind_Out_PC.Smooth_of_Input.Integrator1.y",
   "Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[4]", percentvar}]
```

Out[86]=

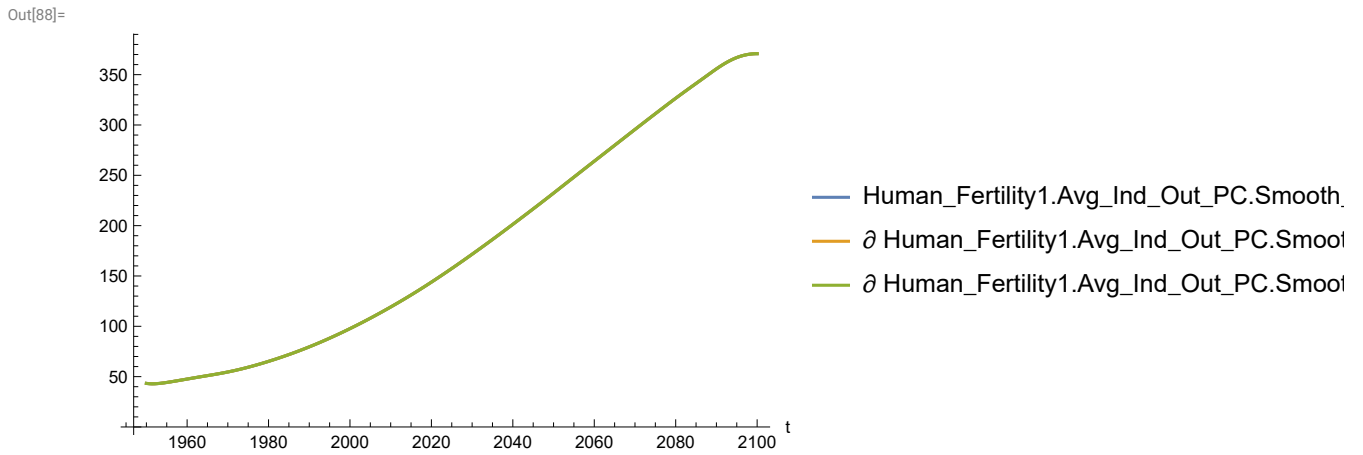


```
In[87]:= SystemModelPlot[simsensdata,
  {"Human_Fertility1.Avg_Ind_Out_PC.Smooth_of_Input.Integrator1.y",
   "Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[5]", percentvar}]
```

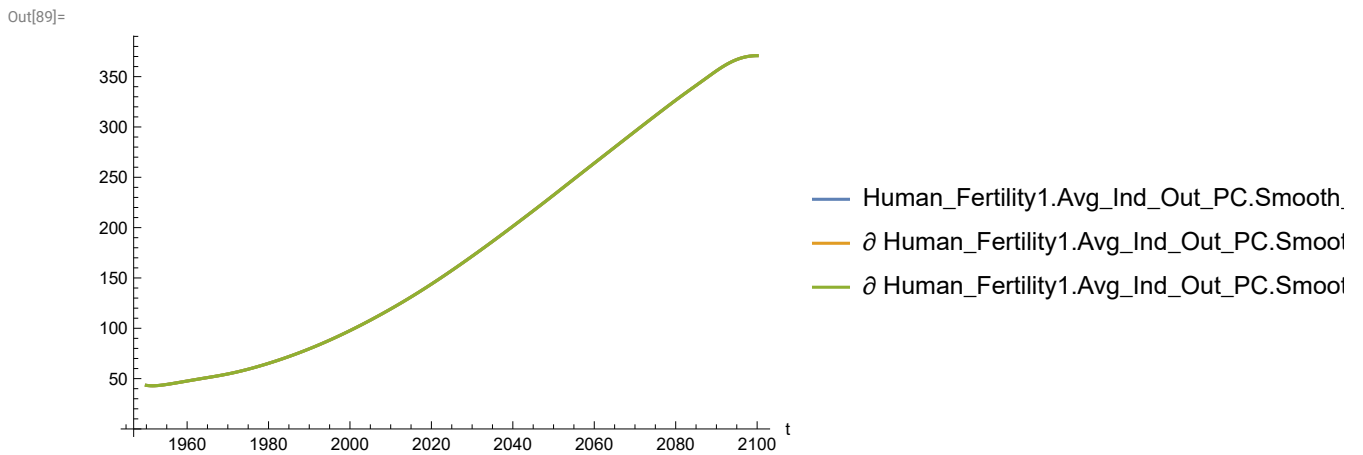
Out[87]=



```
In[88]:= SystemModelPlot[simsensdata,
  {"Human_Fertility1.Avg_Ind_Out_PC.Smooth_of_Input.Integrator1.y",
   "Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[6]", percentvar}]
```



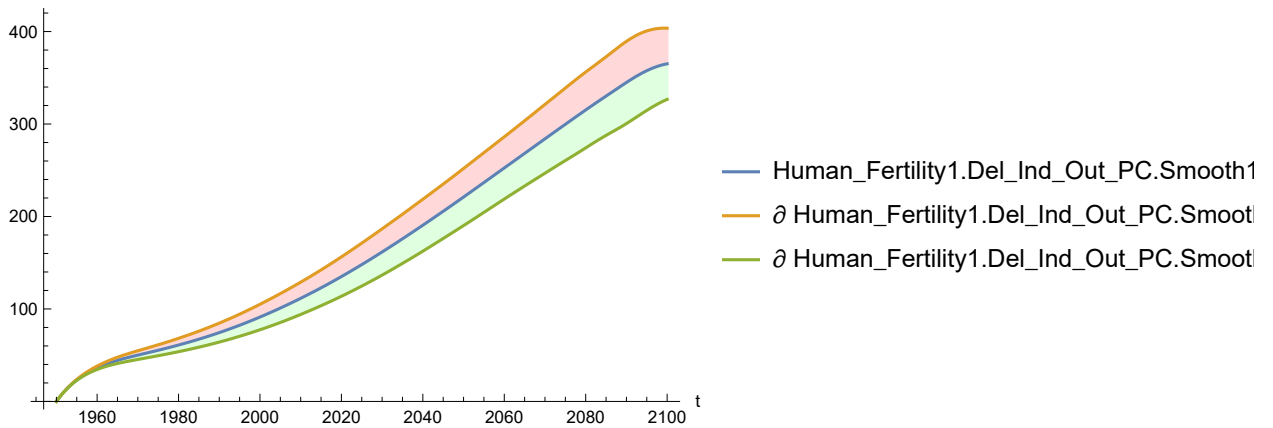
```
In[89]:= SystemModelPlot[simsensdata,
  {"Human_Fertility1.Avg_Ind_Out_PC.Smooth_of_Input.Integrator1.y",
   "Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[7]", percentvar}]
```



Plot the sensitivity of Human_Fertility1.Del_Ind_Out_PC.Smooth1.Integrator1.y to Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals.

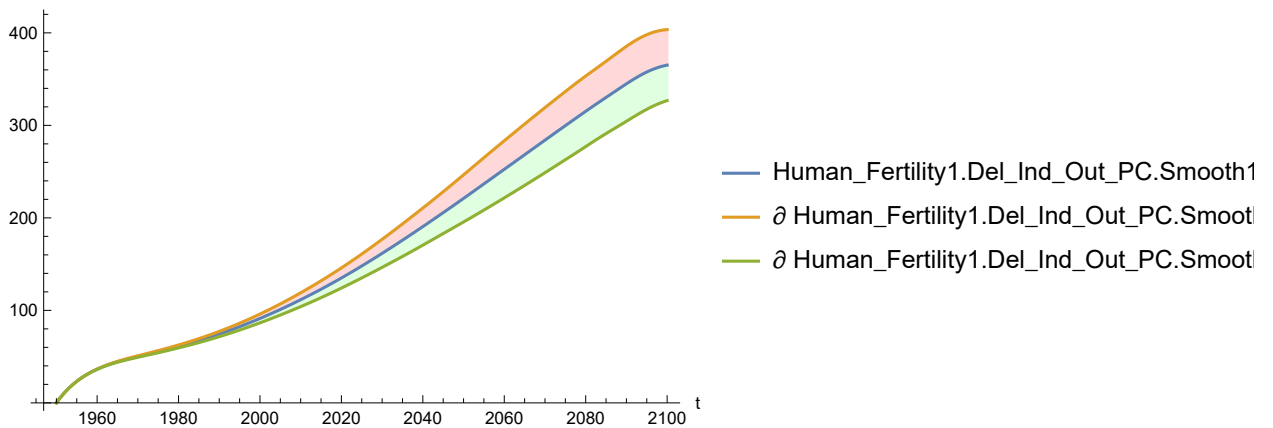
```
In[90]:= SystemModelPlot[simsensdata, {"Human_Fertility1.Del_Ind_Out_PC.Smooth1.Integrator1.y",
"Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[1]", percentvar}]
```

Out[90]=



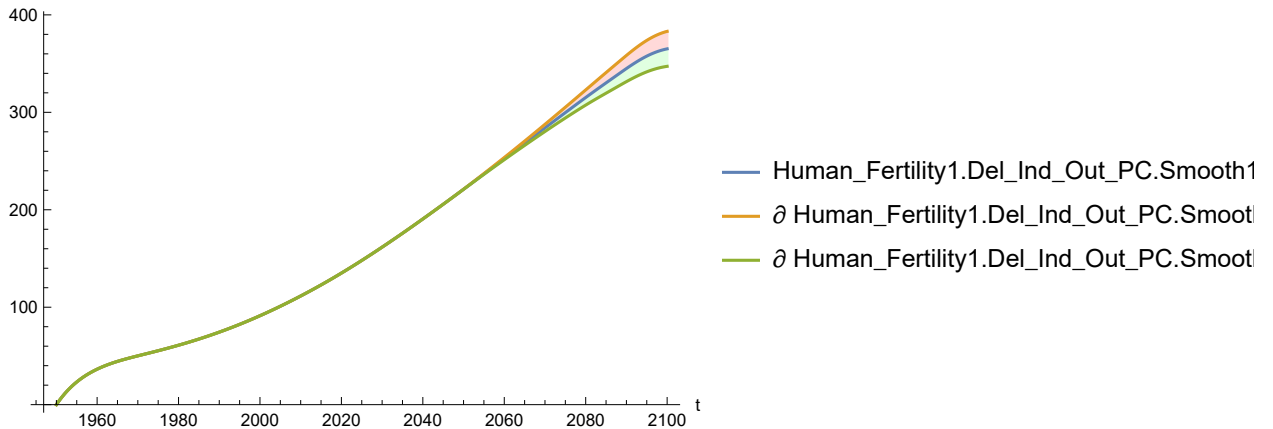
```
In[91]:= SystemModelPlot[simsensdata, {"Human_Fertility1.Del_Ind_Out_PC.Smooth1.Integrator1.y",
"Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[2]", percentvar}]
```

Out[91]=



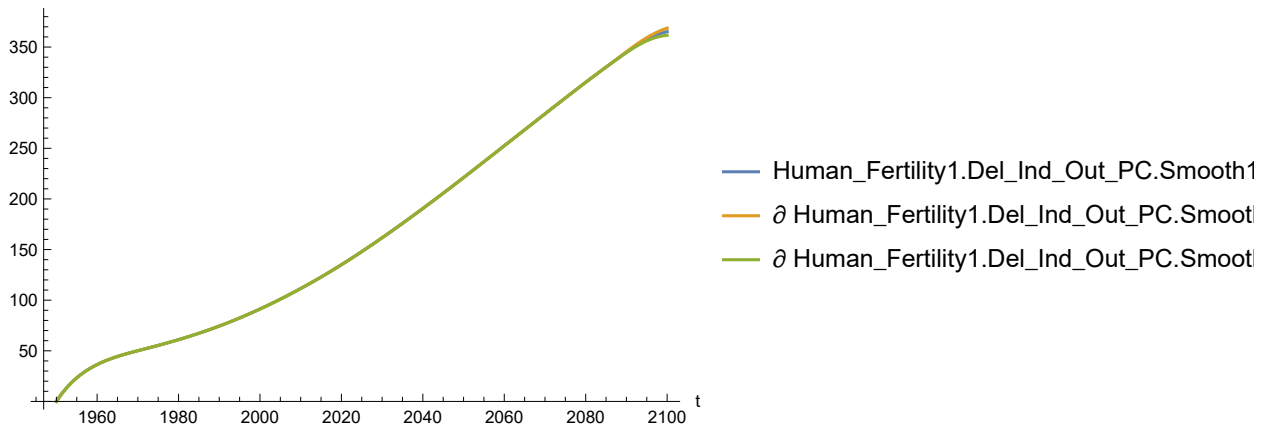
```
In[92]:= SystemModelPlot[simsensdata, {"Human_Fertility1.Del_Ind_Out_PC.Smooth1.Integrator1.y",
"Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[3]", percentvar}]
```

Out[92]=



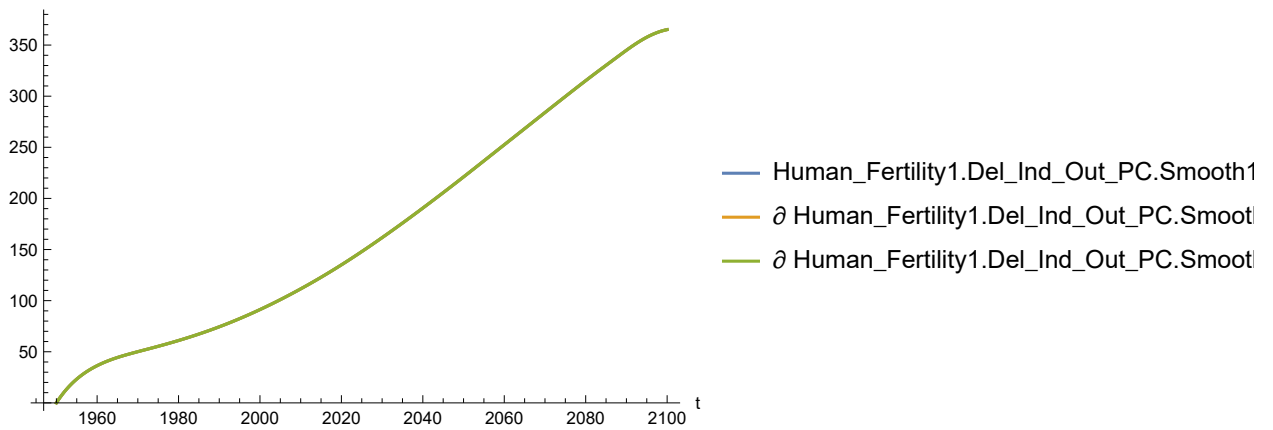
```
In[93]:= SystemModelPlot[simsensdata, {"Human_Fertility1.Del_Ind_Out_PC.Smooth1.Integrator1.y",
"Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[4]", percentvar}]
```

Out[93]=



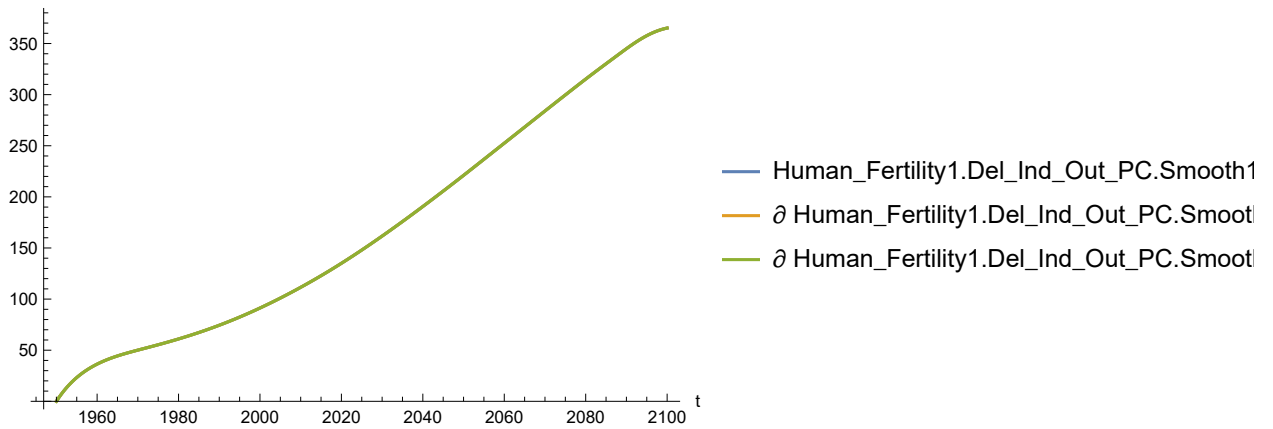
```
In[94]:= SystemModelPlot[simsensdata, {"Human_Fertility1.Del_Ind_Out_PC.Smooth1.Integrator1.y",
"Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[5]", percentvar}]
```

Out[94]=



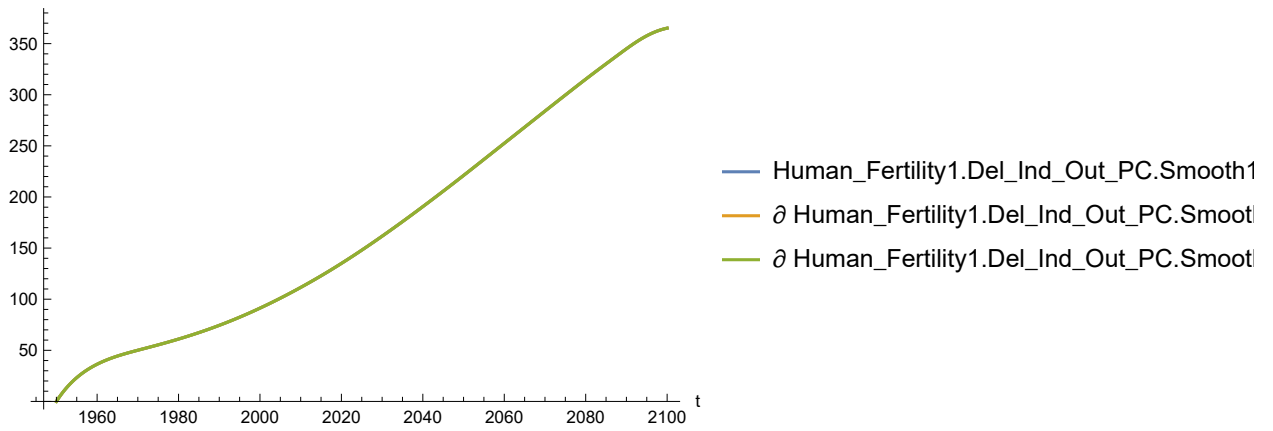
```
In[95]:= SystemModelPlot[simsensdata, {"Human_Fertility1.Del_Ind_Out_PC.Smooth1.Integrator1.y",
"Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[6]", percentvar}]
```

Out[95]=



```
In[96]:= SystemModelPlot[simsensdata, {"Human_Fertility1.De1_Ind_Out_PC.Smooth1.Integrator1.y",
"Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[7]", percentvar}]
```

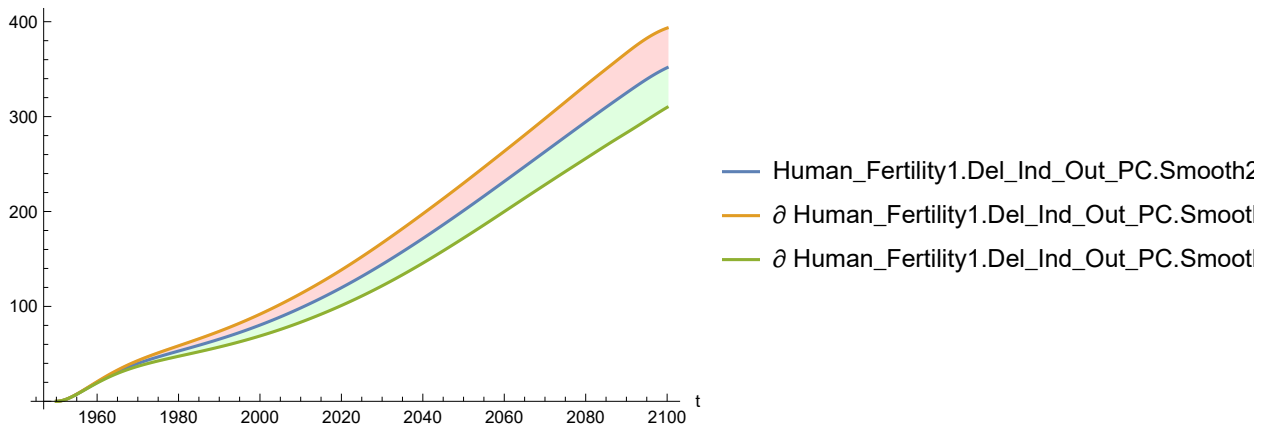
Out[96]=



Plot the sensitivity of Human_Fertility1.De1_Ind_Out_PC.Smooth2.Integrator1.y to Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals.

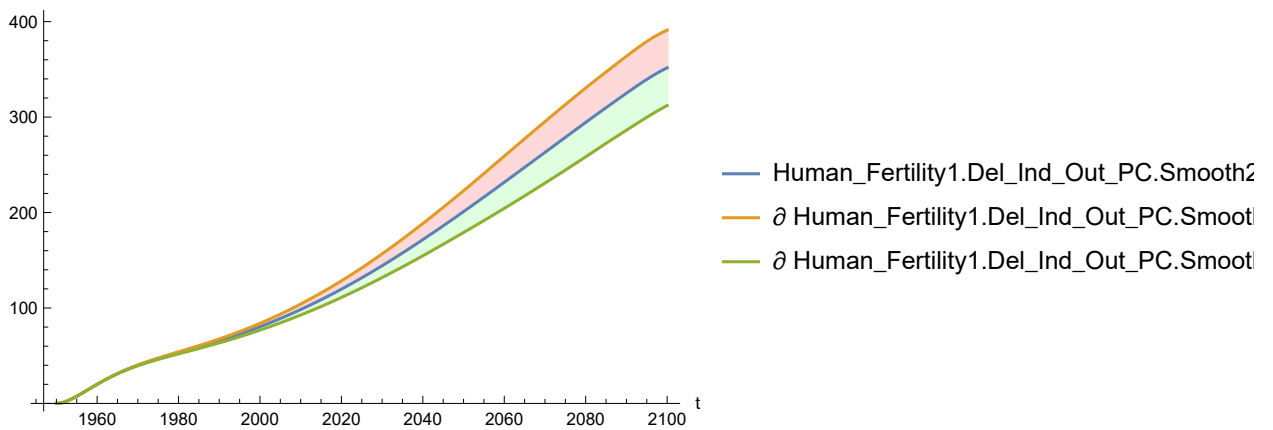
```
In[97]:= SystemModelPlot[simsensdata, {"Human_Fertility1.De1_Ind_Out_PC.Smooth2.Integrator1.y",
"Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[1]", percentvar}]
```

Out[97]=



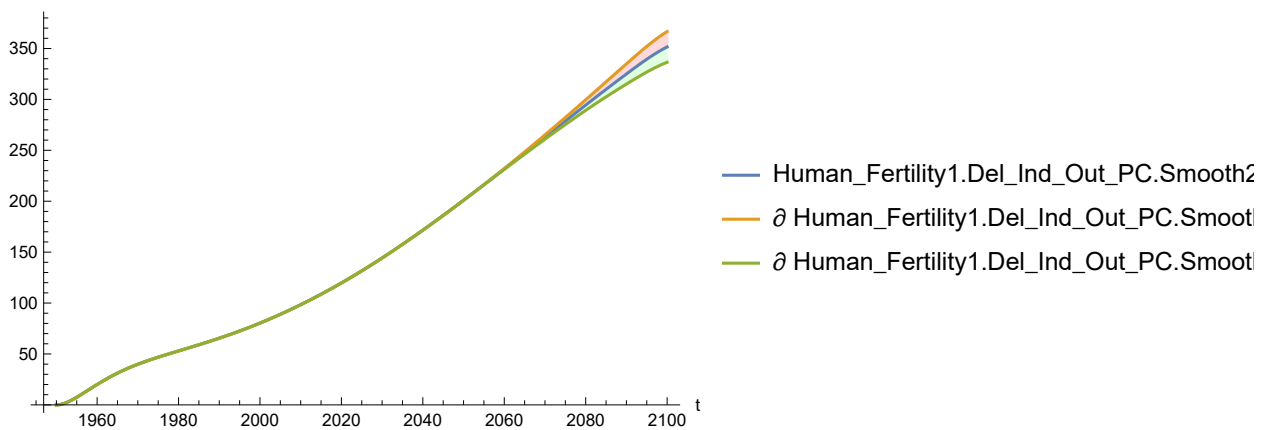
```
In[98]:= SystemModelPlot[simsensdata, {"Human_Fertility1.Del_Ind_Out_PC.Smooth2.Integrator1.y",
"Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[2]", percentvar}]
```

Out[98]=



```
In[99]:= SystemModelPlot[simsensdata, {"Human_Fertility1.Del_Ind_Out_PC.Smooth2.Integrator1.y",
"Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[3]", percentvar}]
```

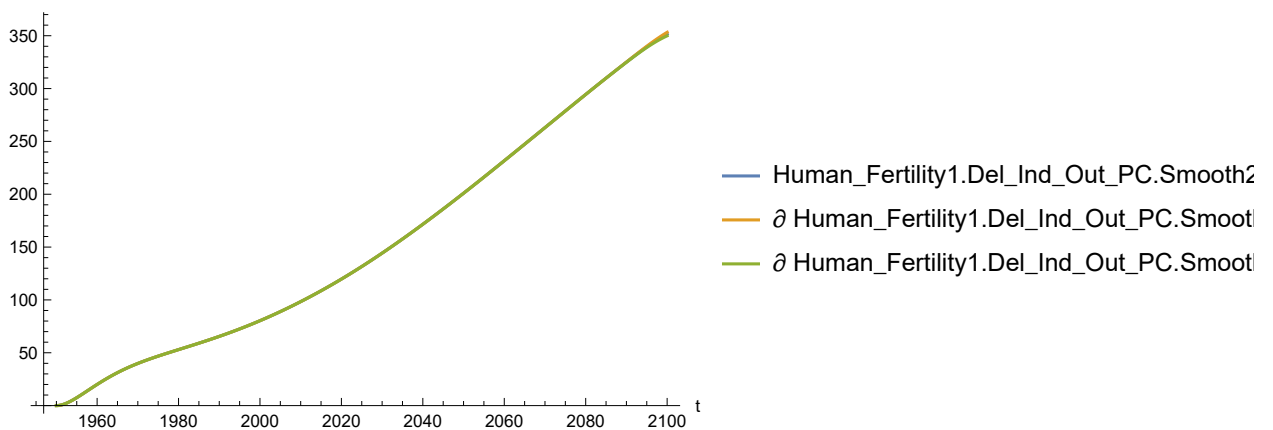
Out[99]=



In[100]=

```
SystemModelPlot[simsensdata, {"Human_Fertility1.Del_Ind_Out_PC.Smooth2.Integrator1.y",
"Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[4]", percentvar}]
```

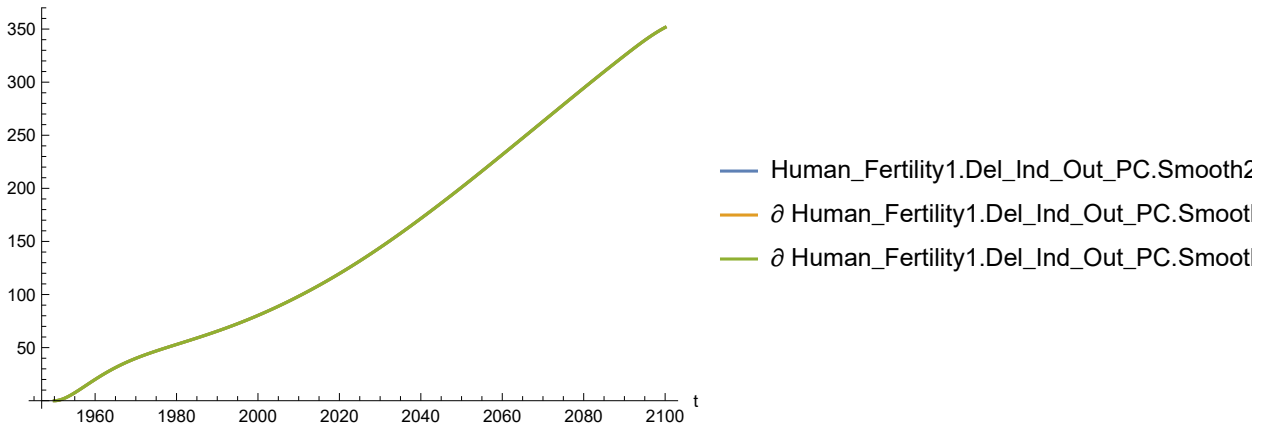
Out[100]=



In[101]:=

```
SystemModelPlot[simsensdata, {"Human_Fertility1.Del_Ind_Out_PC.Smooth2.Integrator1.y",
"Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[5]", percentvar}]
```

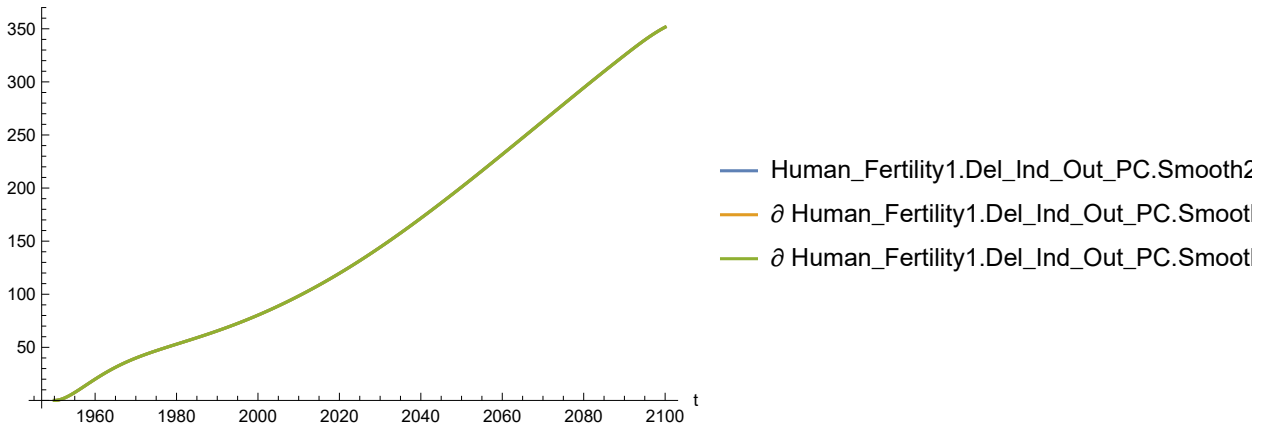
Out[101]=



In[102]:=

```
SystemModelPlot[simsensdata, {"Human_Fertility1.Del_Ind_Out_PC.Smooth2.Integrator1.y",
"Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[6]", percentvar}]
```

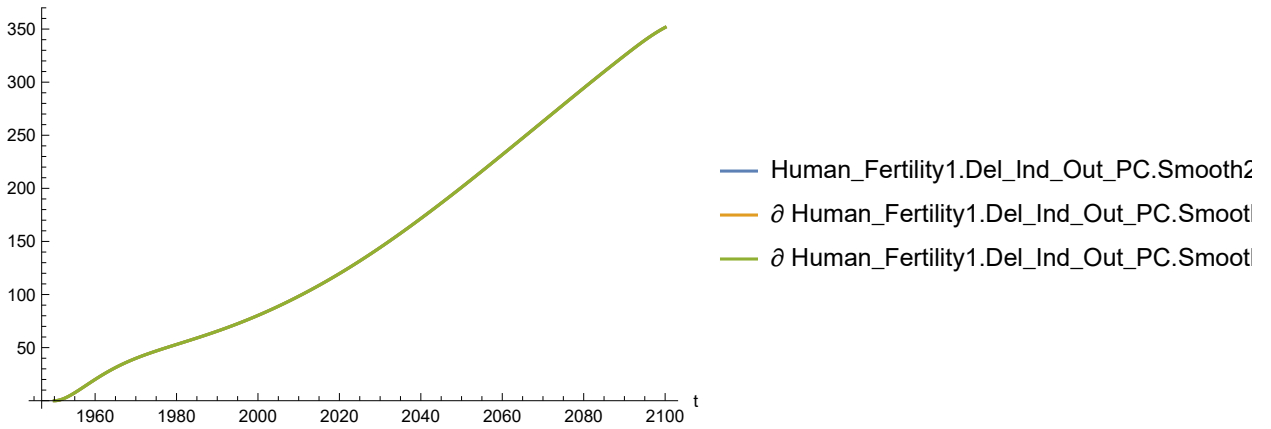
Out[102]=



In[103]:=

```
SystemModelPlot[simsensdata, {"Human_Fertility1.Del_Ind_Out_PC.Smooth2.Integrator1.y",
"Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[7]", percentvar}]
```

Out[103]:=

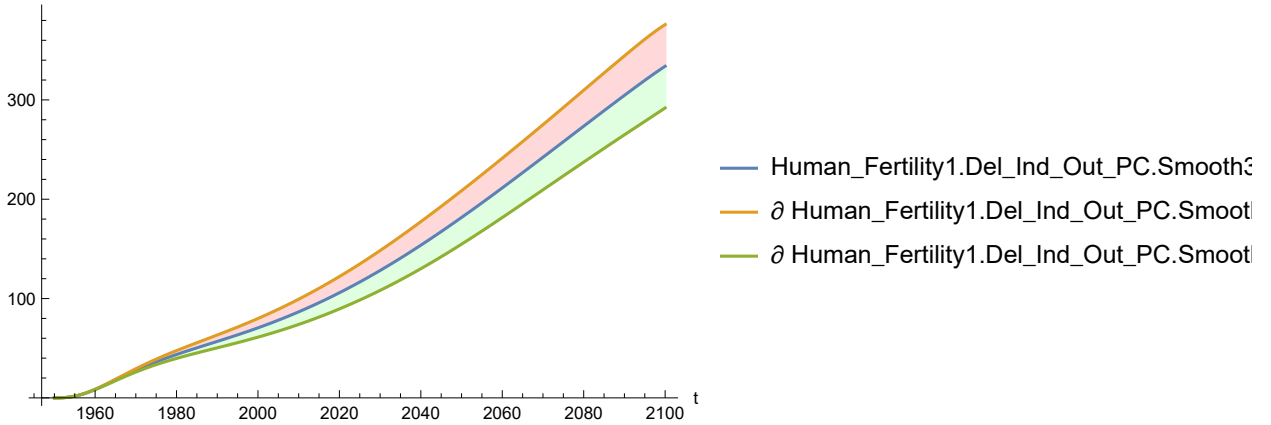


Plot the sensitivity of Human_Fertility1.Del_Ind_Out_PC.Smooth3.Integrator1.y to Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals.

In[104]:=

```
SystemModelPlot[simsensdata, {"Human_Fertility1.Del_Ind_Out_PC.Smooth3.Integrator1.y",
"Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[1]", percentvar}]
```

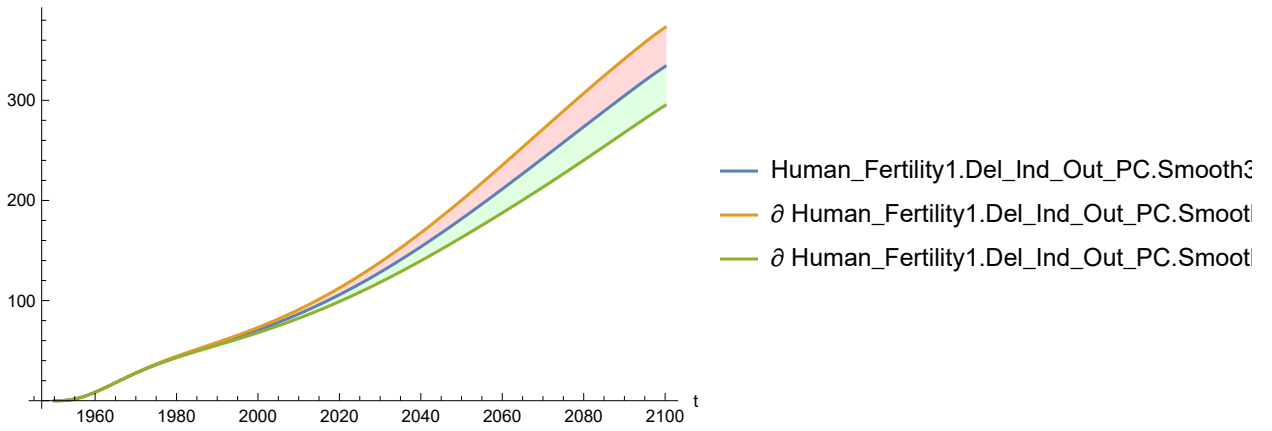
Out[104]:=



In[105]:=

```
SystemModelPlot[simsensdata, {"Human_Fertility1.Del_Ind_Out_PC.Smooth3.Integrator1.y",
"Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[2]", percentvar}]
```

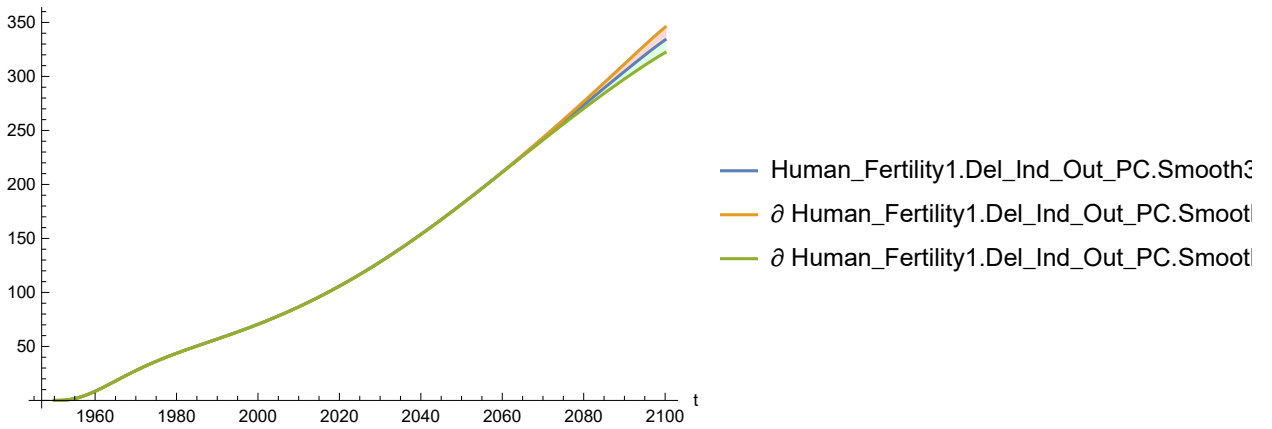
Out[105]=



In[106]:=

```
SystemModelPlot[simsensdata, {"Human_Fertility1.Del_Ind_Out_PC.Smooth3.Integrator1.y",
"Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[3]", percentvar}]
```

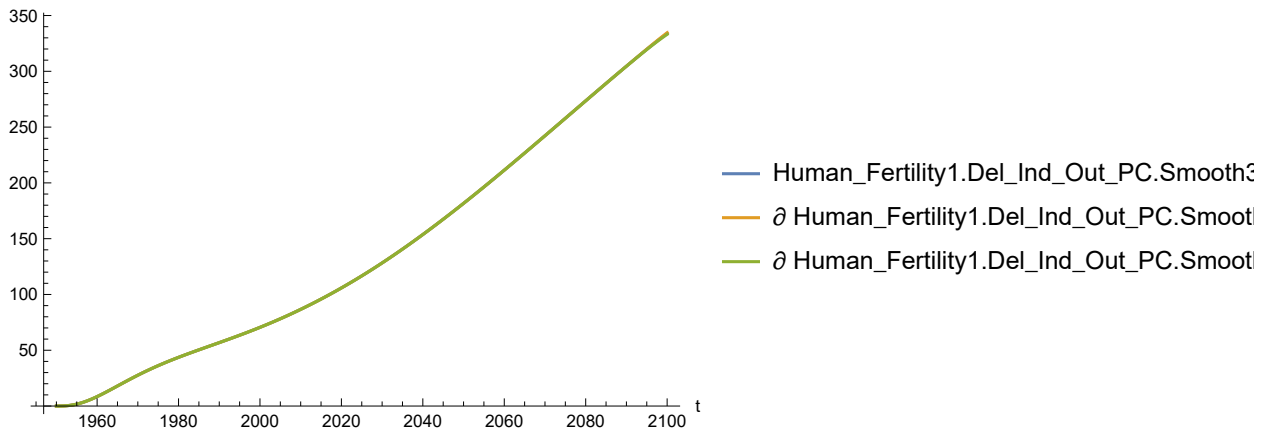
Out[106]=



In[107]:=

```
SystemModelPlot[simsensdata, {"Human_Fertility1.Del_Ind_Out_PC.Smooth3.Integrator1.y",
"Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[4]", percentvar}]
```

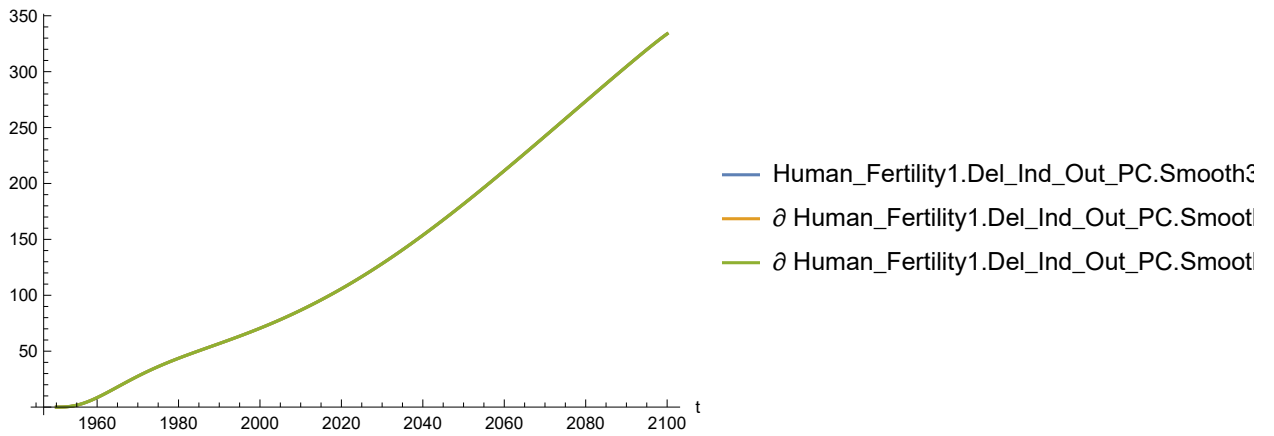
Out[107]=



In[108]:=

```
SystemModelPlot[simsensdata, {"Human_Fertility1.Del_Ind_Out_PC.Smooth3.Integrator1.y",
"Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[5]", percentvar}]
```

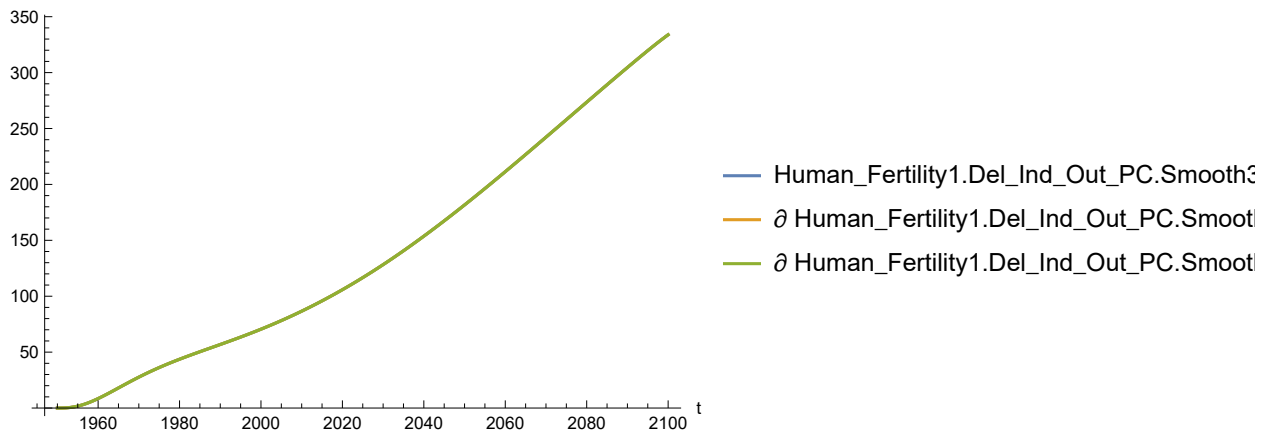
Out[108]=



In[109]:=

```
SystemModelPlot[simsensdata, {"Human_Fertility1.Del_Ind_Out_PC.Smooth3.Integrator1.y",
    "Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[6]", percentvar}]
```

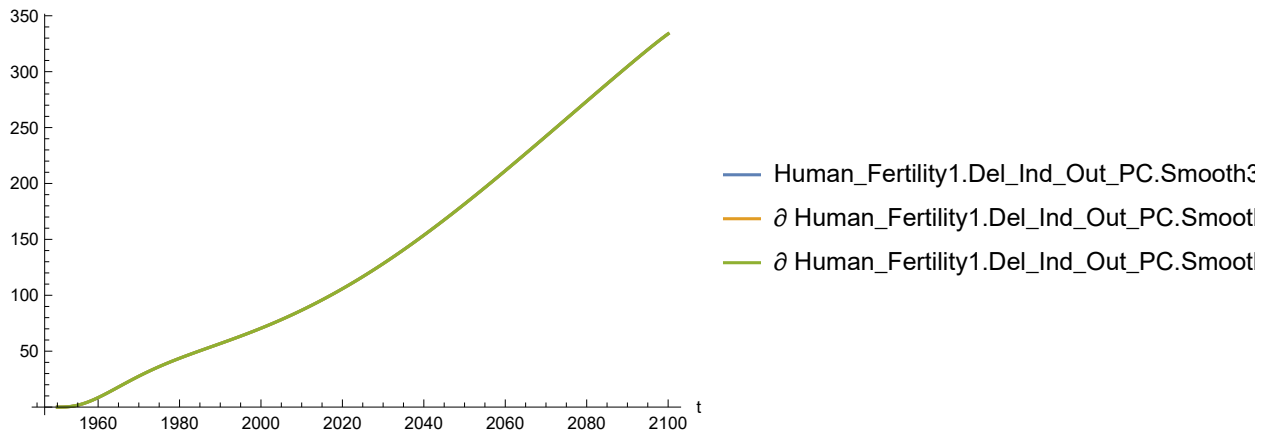
Out[109]=



In[110]:=

```
SystemModelPlot[simsensdata, {"Human_Fertility1.Del_Ind_Out_PC.Smooth3.Integrator1.y",
    "Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[7]", percentvar}]
```

Out[110]=

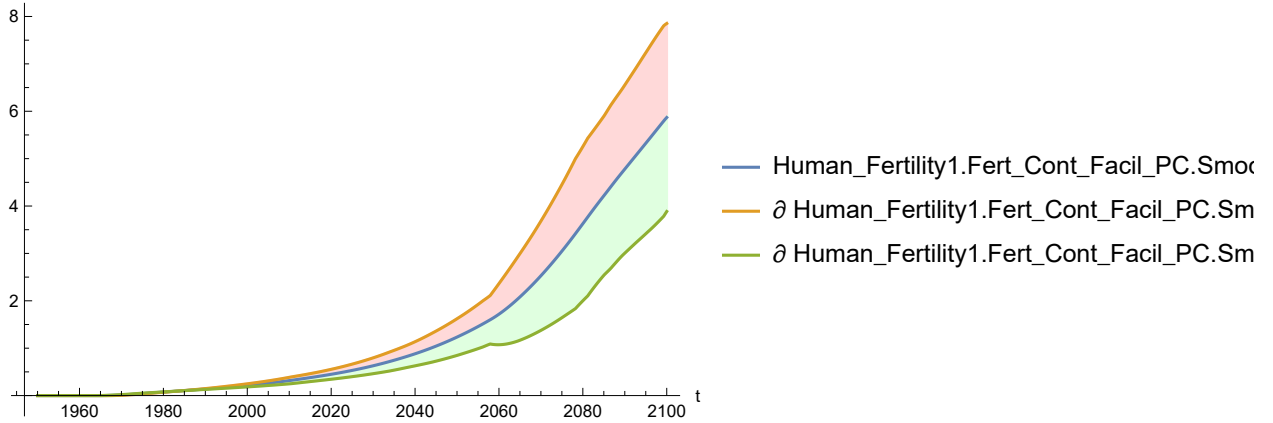


Plot the sensitivity of Human_Fertility1.Fert_Cont_Facil_PC.Smooth1.Integrator1.y to Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals.

In[111]:=

```
SystemModelPlot[simsensdata,
  {"Human_Fertility1.Fert_Cont_Facil_PC.Smooth1.Integrator1.y",
   "Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[1]", percentvar}]
```

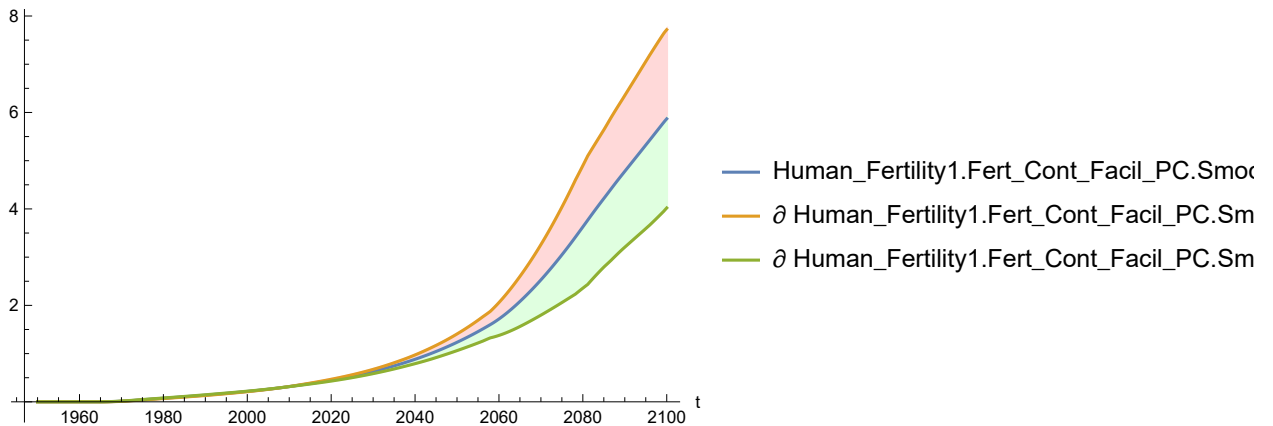
Out[111]=



In[112]:=

```
SystemModelPlot[simsensdata,
  {"Human_Fertility1.Fert_Cont_Facil_PC.Smooth1.Integrator1.y",
   "Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[2]", percentvar}]
```

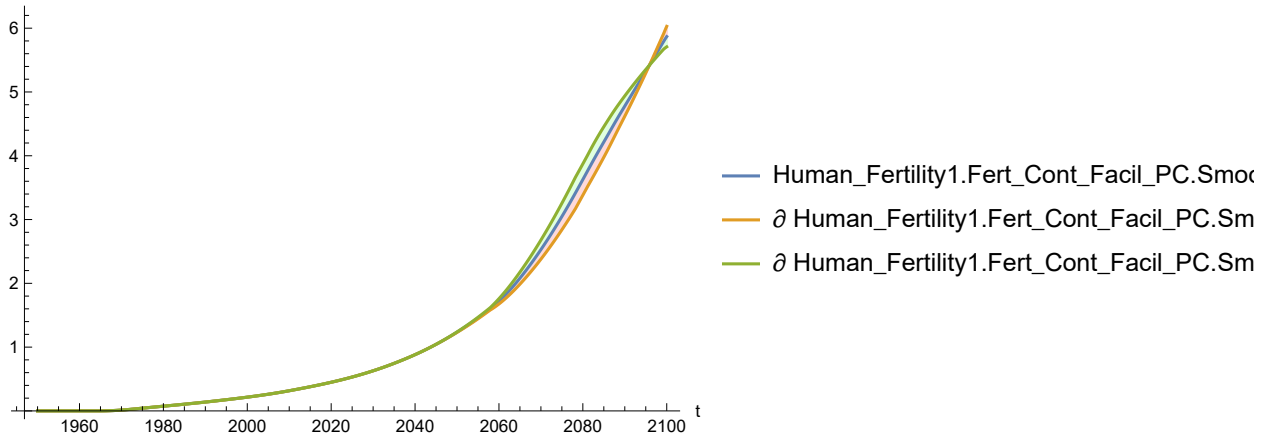
Out[112]=



In[113]:=

```
SystemModelPlot[simsensdata,
  {"Human_Fertility1.Fert_Cont_Facil_PC.Smooth1.Integrator1.y",
   "Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[3]", percentvar}]
```

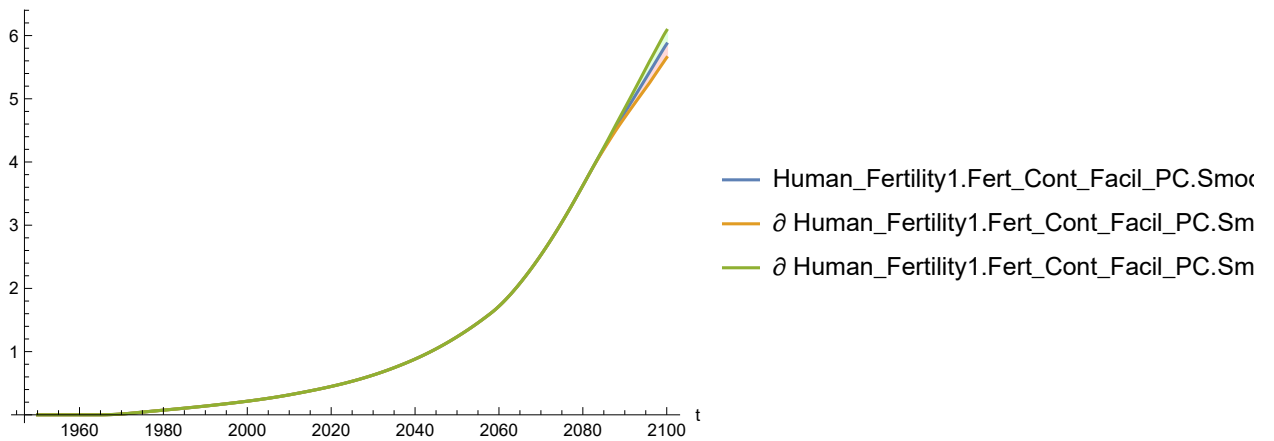
Out[113]=



In[114]:=

```
SystemModelPlot[simsensdata,
  {"Human_Fertility1.Fert_Cont_Facil_PC.Smooth1.Integrator1.y",
   "Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[4]", percentvar}]
```

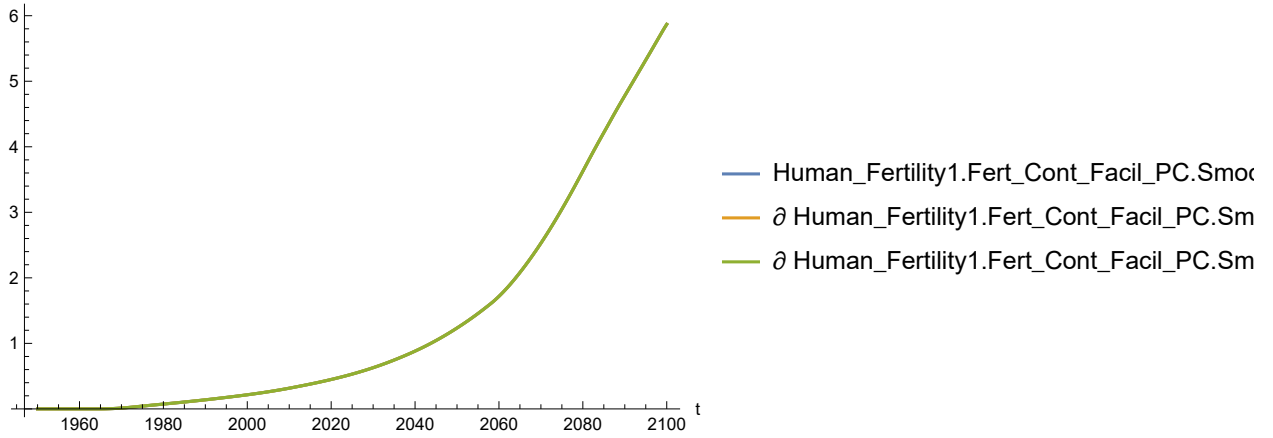
Out[114]=



In[115]:=

```
SystemModelPlot[simsensdata,
  {"Human_Fertility1.Fert_Cont_Facil_PC.Smooth1.Integrator1.y",
   "Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[5]", percentvar}]
```

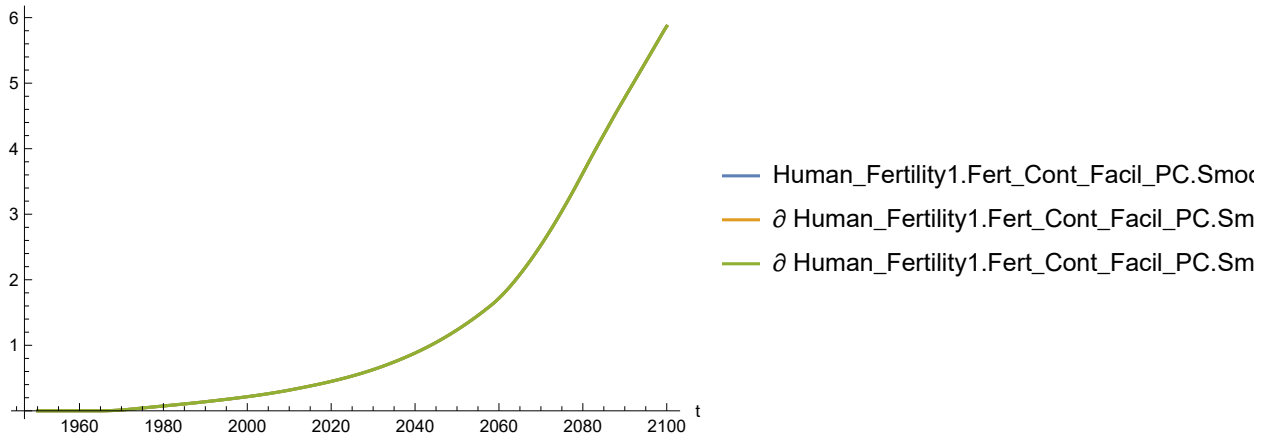
Out[115]=



In[116]:=

```
SystemModelPlot[simsensdata,
  {"Human_Fertility1.Fert_Cont_Facil_PC.Smooth1.Integrator1.y",
   "Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[6]", percentvar}]
```

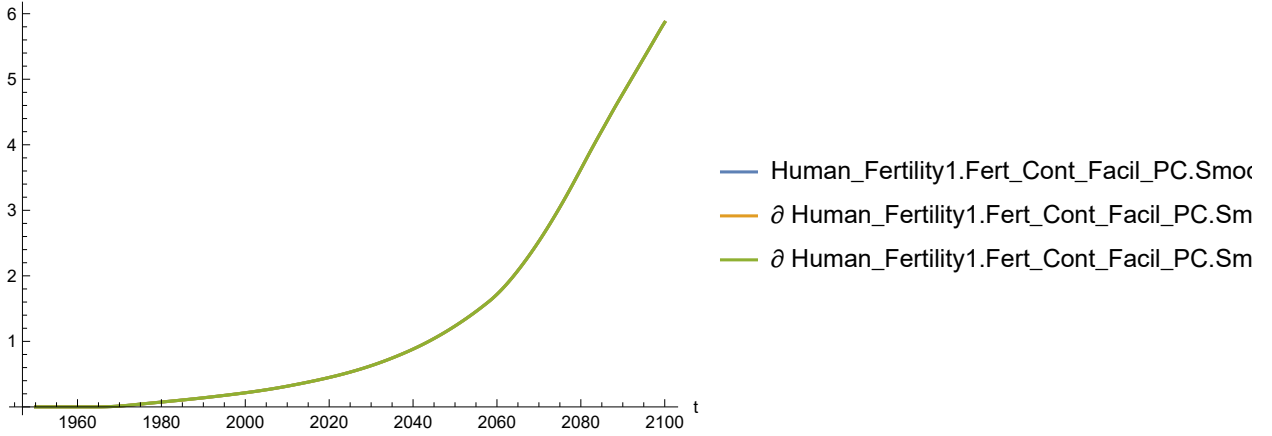
Out[116]=



In[117]:=

```
SystemModelPlot[simsensdata,
  {"Human_Fertility1.Fert_Cont_Facil_PC.Smooth1.Integrator1.y",
   "Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[7]", percentvar}]
```

Out[117]=

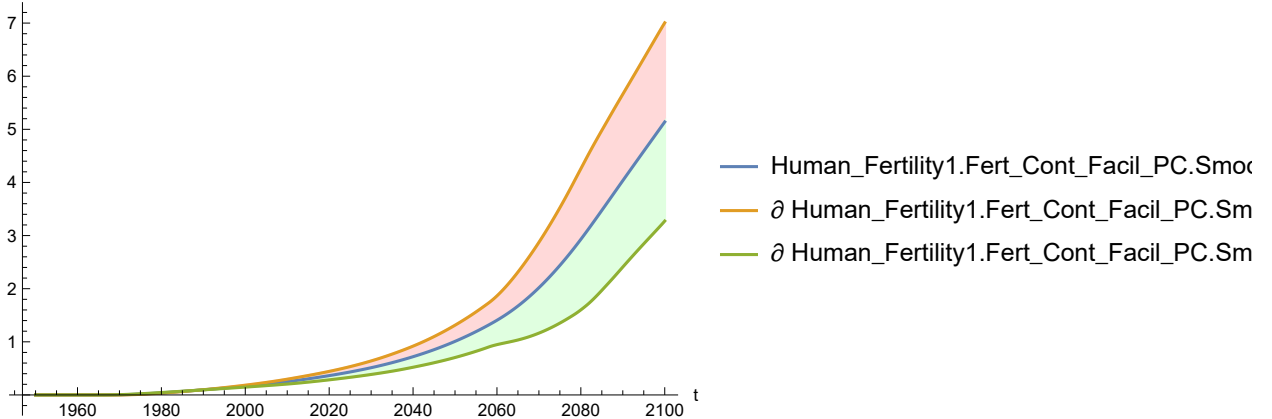


Plot the sensitivity of Human_Fertility1.Fert_Cont_Facil_PC.Smooth2.Integrator1.y to Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals.

In[118]:=

```
SystemModelPlot[simsensdata,
  {"Human_Fertility1.Fert_Cont_Facil_PC.Smooth2.Integrator1.y",
   "Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[1]", percentvar}]
```

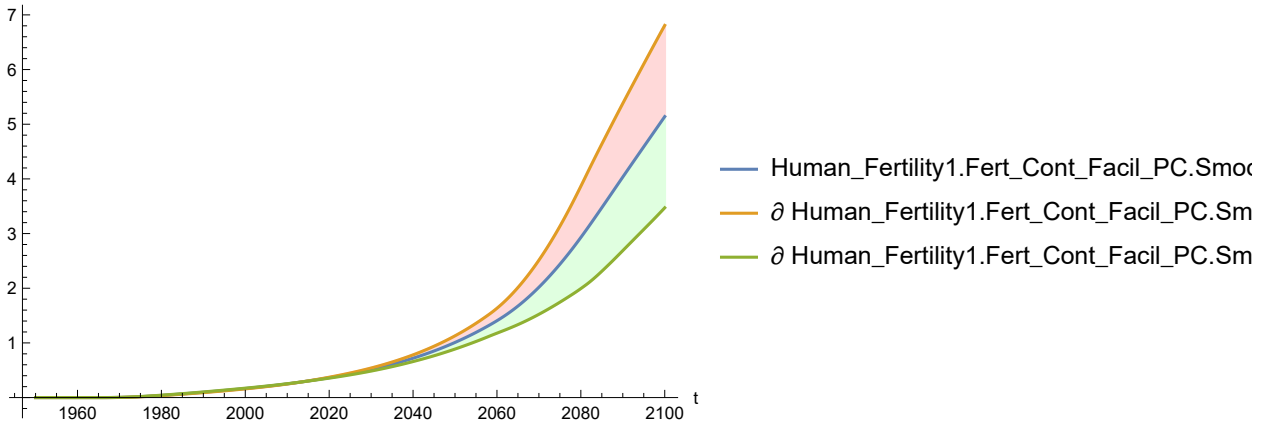
Out[118]=



In[119]:=

```
SystemModelPlot[simsensdata,
  {"Human_Fertility1.Fert_Cont_Facil_PC.Smooth2.Integrator1.y",
   "Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[2]", percentvar}]
```

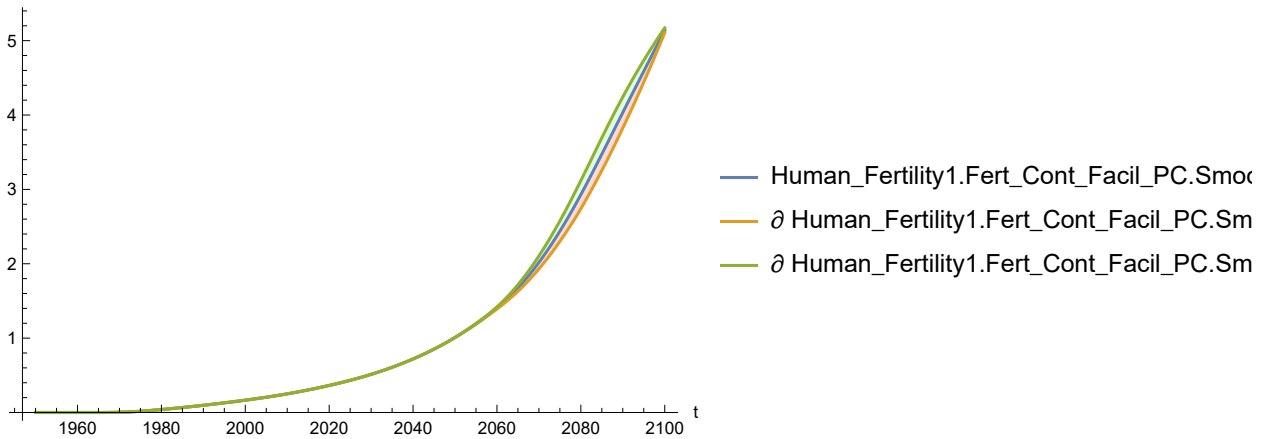
Out[119]=



In[120]:=

```
SystemModelPlot[simsensdata,
  {"Human_Fertility1.Fert_Cont_Facil_PC.Smooth2.Integrator1.y",
   "Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[3]", percentvar}]
```

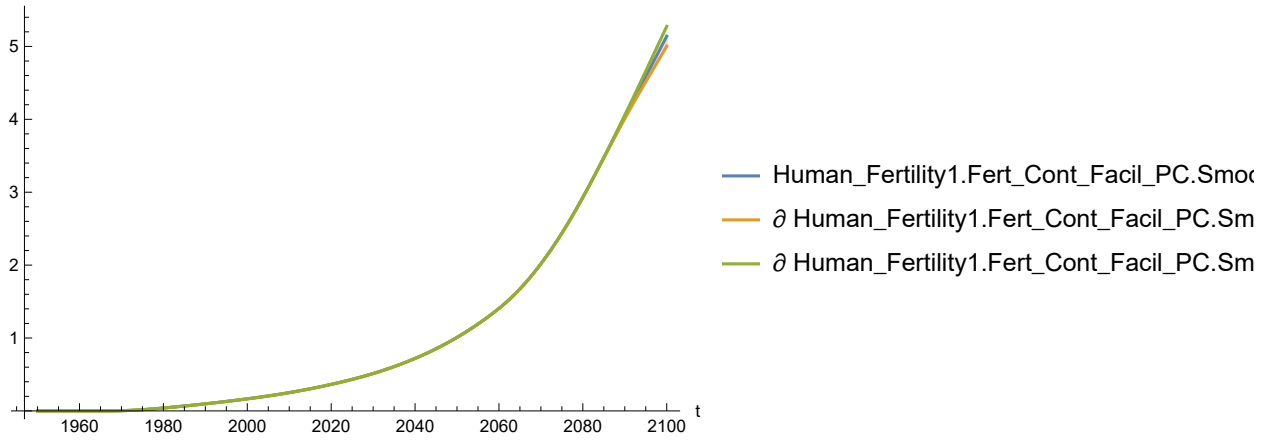
Out[120]=



In[121]:=

```
SystemModelPlot[simsensdata,
  {"Human_Fertility1.Fert_Cont_Facil_PC.Smooth2.Integrator1.y",
   "Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[4]", percentvar}]
```

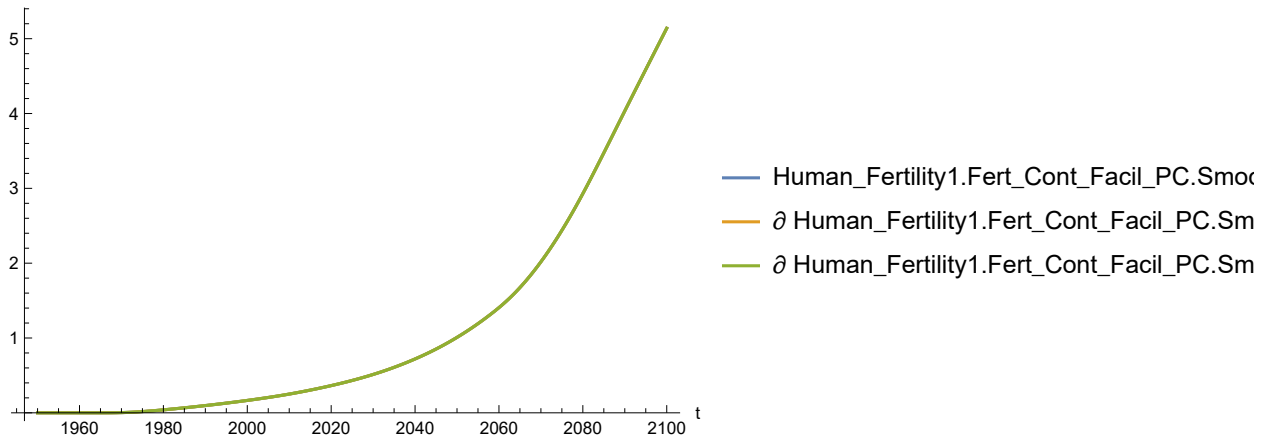
Out[121]=



In[122]:=

```
SystemModelPlot[simsensdata,
  {"Human_Fertility1.Fert_Cont_Facil_PC.Smooth2.Integrator1.y",
   "Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[5]", percentvar}]
```

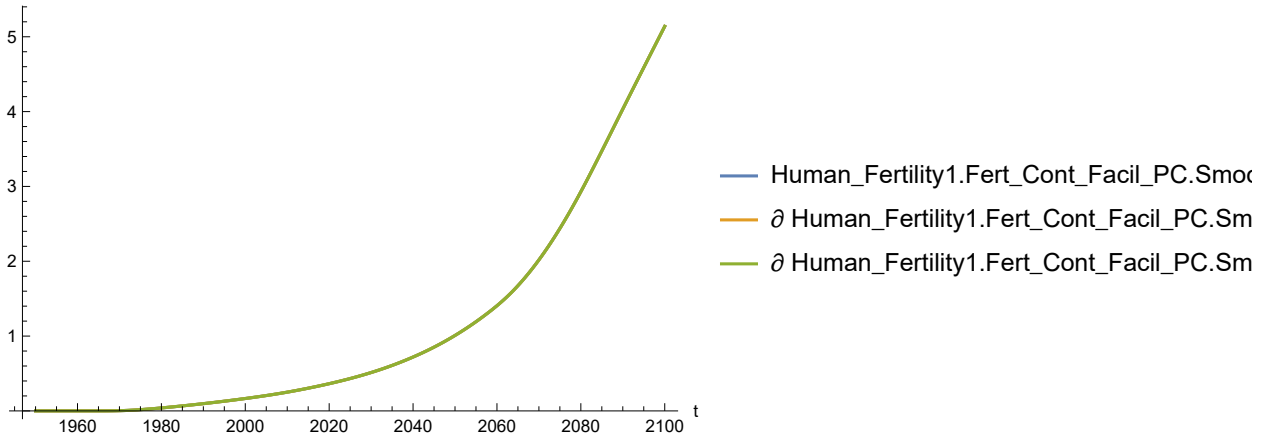
Out[122]=



In[123]:=

```
SystemModelPlot[simsensdata,
  {"Human_Fertility1.Fert_Cont_Facil_PC.Smooth2.Integrator1.y",
   "Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[6]", percentvar}]
```

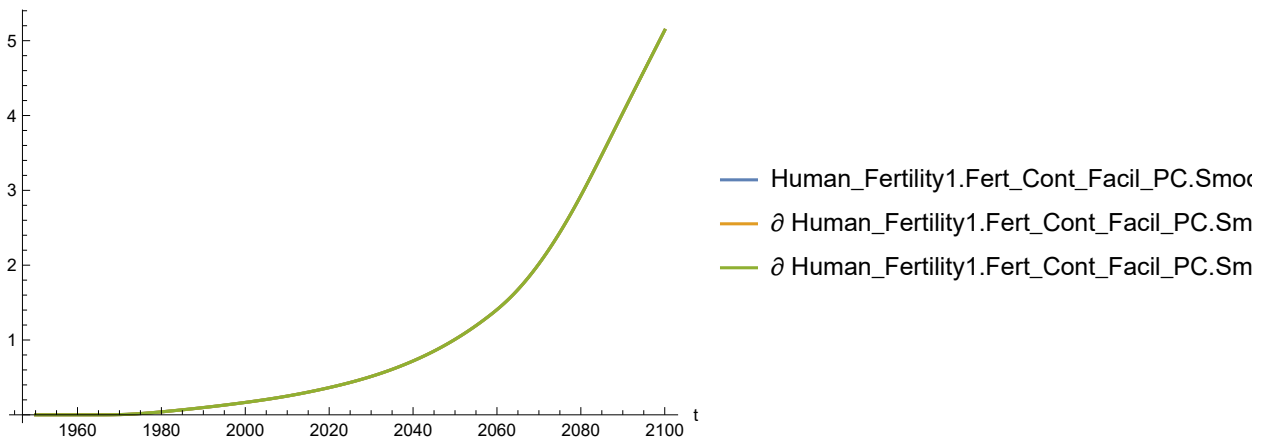
Out[123]=



In[124]:=

```
SystemModelPlot[simsensdata,
  {"Human_Fertility1.Fert_Cont_Facil_PC.Smooth2.Integrator1.y",
   "Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[7]", percentvar}]
```

Out[124]=

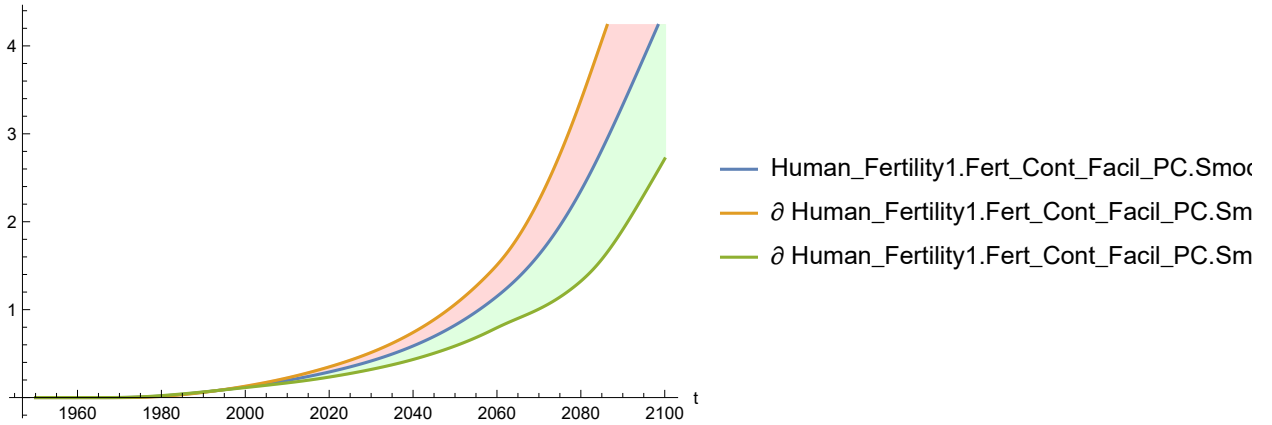


Plot the sensitivity of Human_Fertility1.Fert_Cont_Facil_PC.Smooth3.Integrator1.y to Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals.

In[125]:=

```
SystemModelPlot[simsensdata,
  {"Human_Fertility1.Fert_Cont_Facil_PC.Smooth3.Integrator1.y",
   "Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[1]", percentvar}]
```

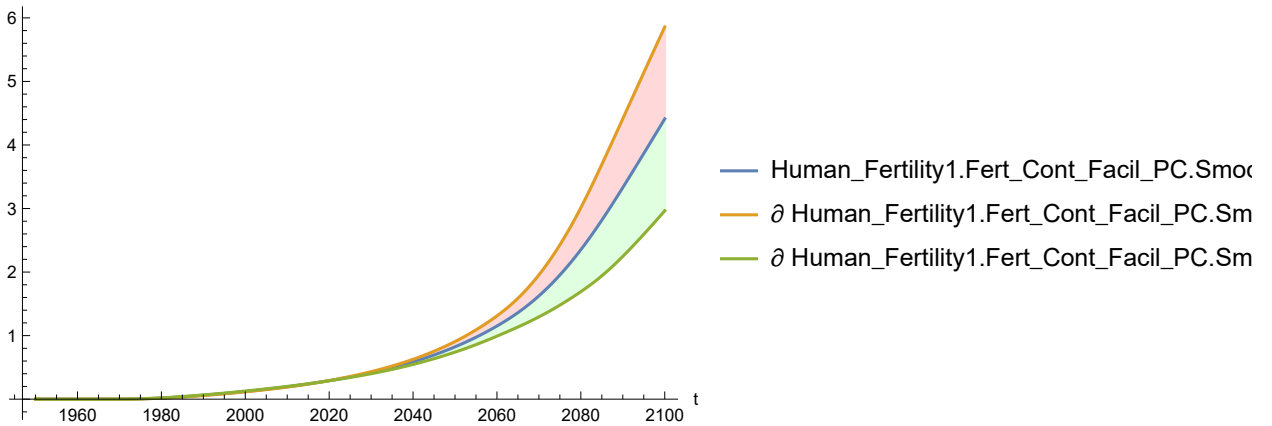
Out[125]=



In[126]:=

```
SystemModelPlot[simsensdata,
  {"Human_Fertility1.Fert_Cont_Facil_PC.Smooth3.Integrator1.y",
   "Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[2]", percentvar}]
```

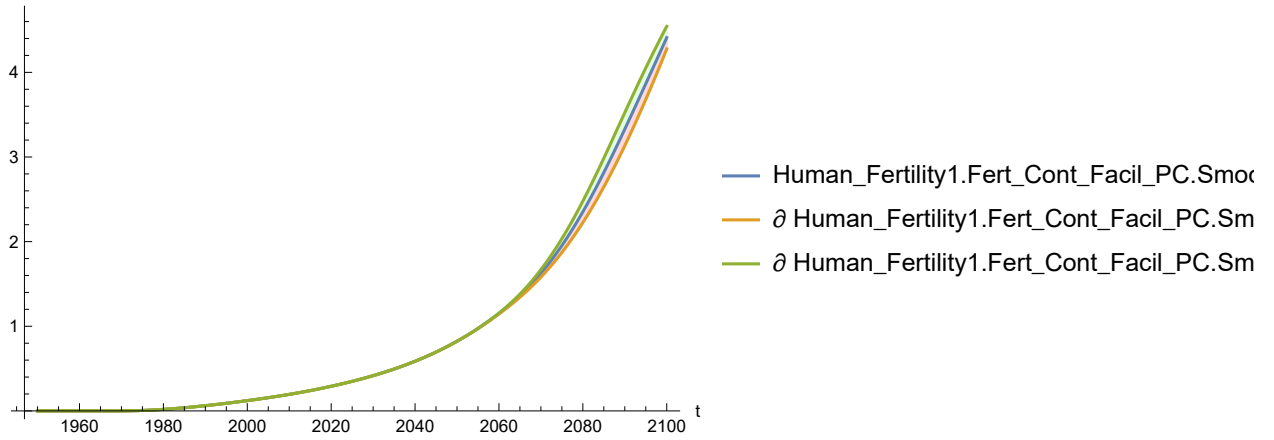
Out[126]=



In[127]:=

```
SystemModelPlot[simsensdata,
  {"Human_Fertility1.Fert_Cont_Facil_PC.Smooth3.Integrator1.y",
   "Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[3]", percentvar}]
```

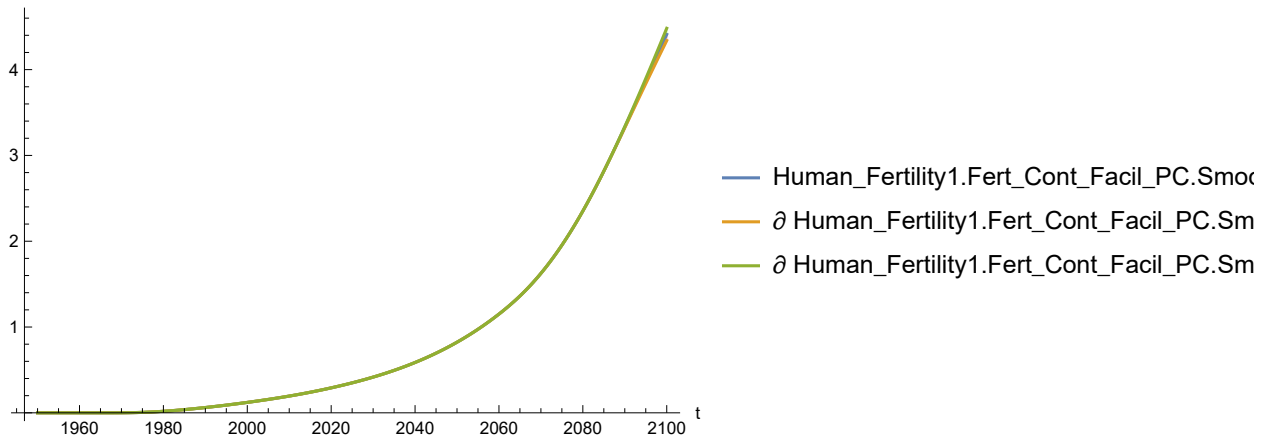
Out[127]=



In[128]:=

```
SystemModelPlot[simsensdata,
  {"Human_Fertility1.Fert_Cont_Facil_PC.Smooth3.Integrator1.y",
   "Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[4]", percentvar}]
```

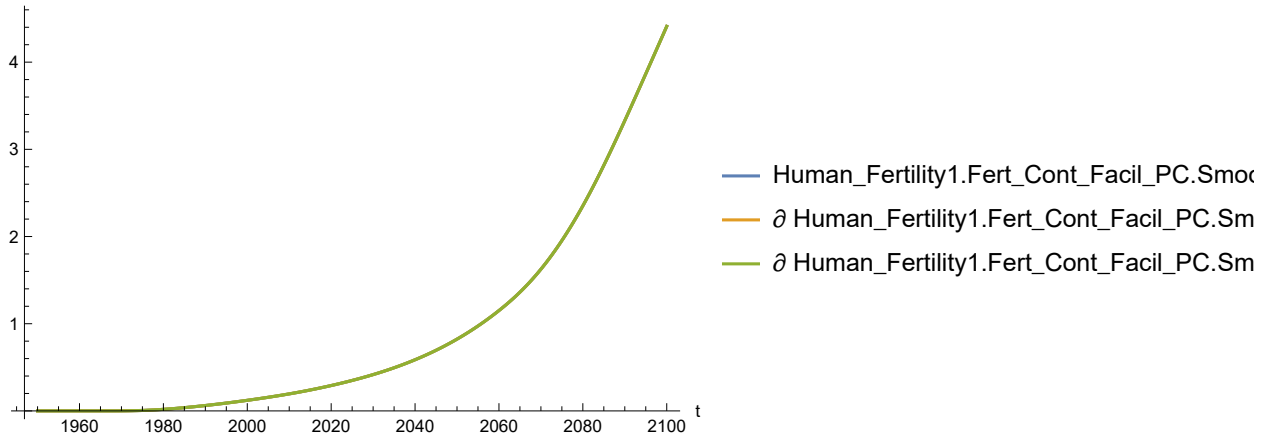
Out[128]=



In[129]:=

```
SystemModelPlot[simsensdata,
  {"Human_Fertility1.Fert_Cont_Facil_PC.Smooth3.Integrator1.y",
   "Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[5]", percentvar}]
```

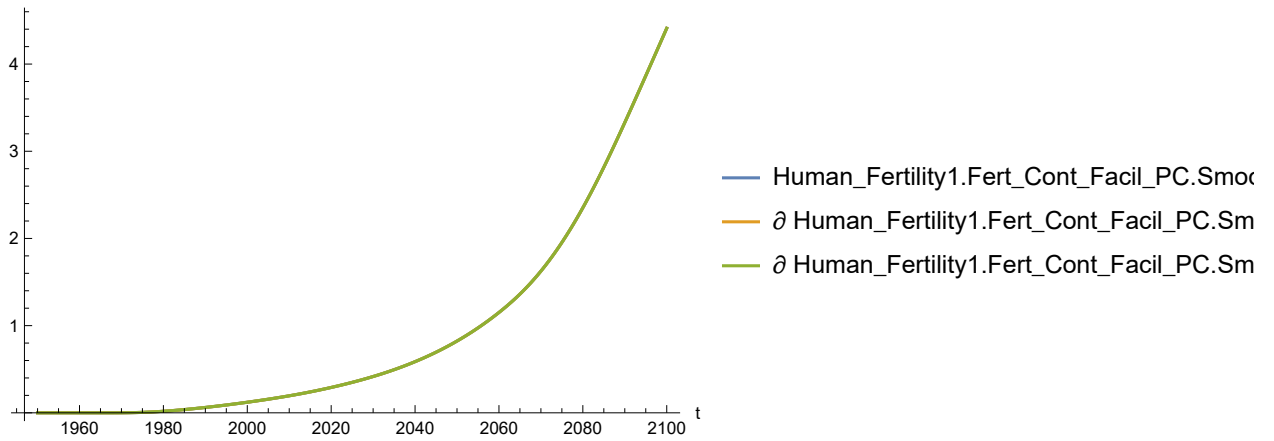
Out[129]=



In[130]:=

```
SystemModelPlot[simsensdata,
  {"Human_Fertility1.Fert_Cont_Facil_PC.Smooth3.Integrator1.y",
   "Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[6]", percentvar}]
```

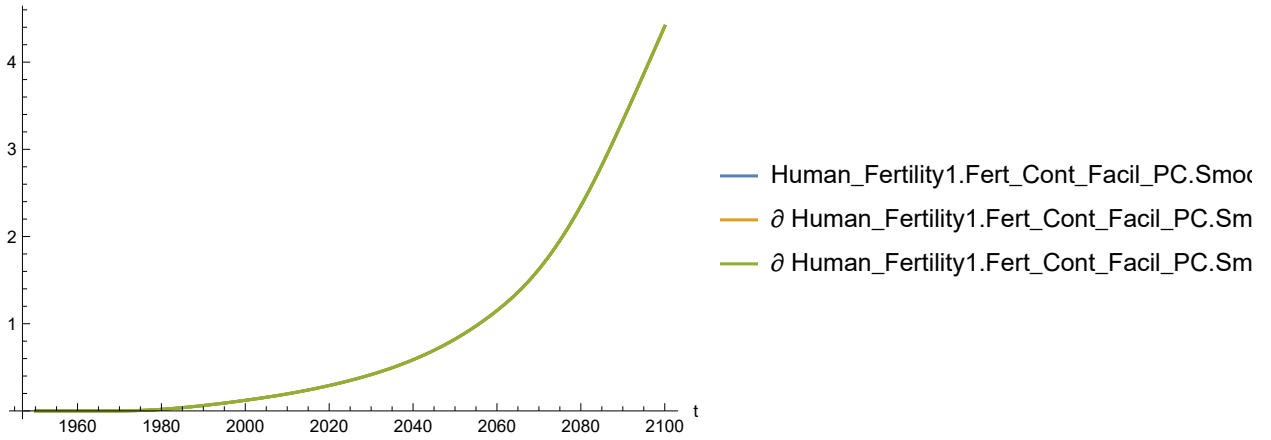
Out[130]=



In[131]:=

```
SystemModelPlot[simsensdata,
  {"Human_Fertility1.Fert_Cont_Facil_PC.Smooth3.Integrator1.y",
   "Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[7]", percentvar}]
```

Out[131]=

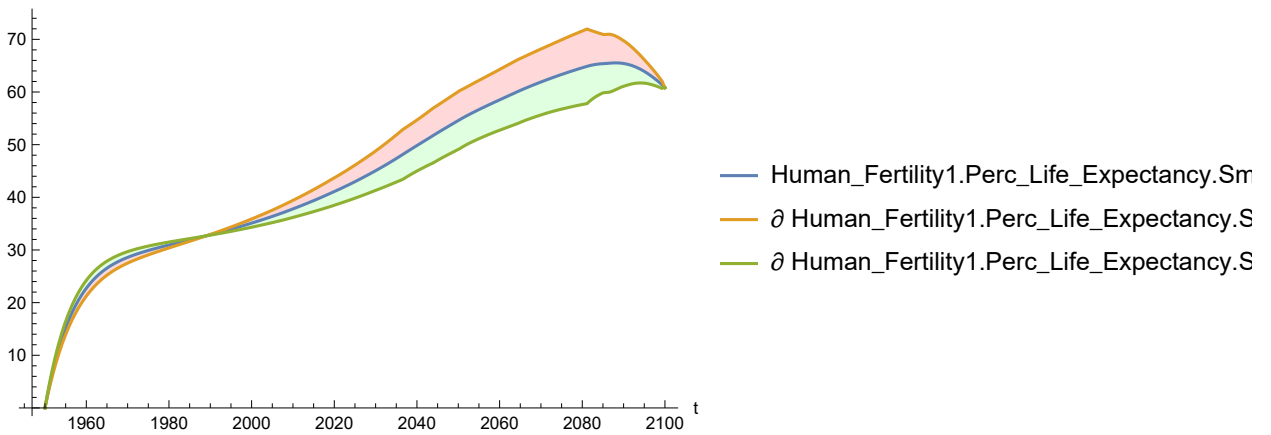


Plot the sensitivity of Human_Fertility1.Perc_Life_Expectancy.Smooth1.Integrator1.y to Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals.

In[132]:=

```
SystemModelPlot[simsensdata,
  {"Human_Fertility1.Perc_Life_Expectancy.Smooth1.Integrator1.y",
   "Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[1]", percentvar}]
```

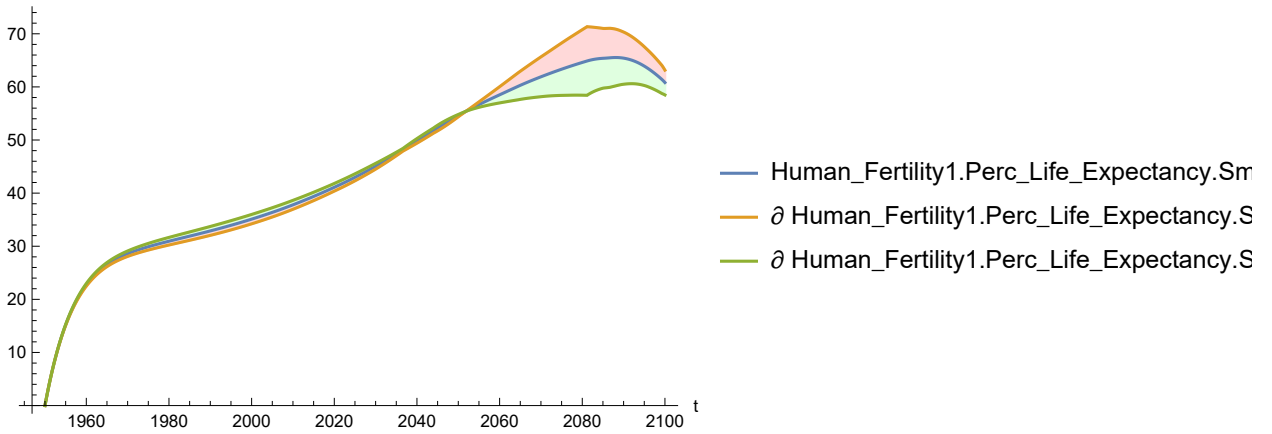
Out[132]=



In[133]:=

```
SystemModelPlot[simsensdata,
  {"Human_Fertility1.Perc_Life_Expectancy.Smooth1.Integrator1.y",
   "Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[2]", percentvar}]
```

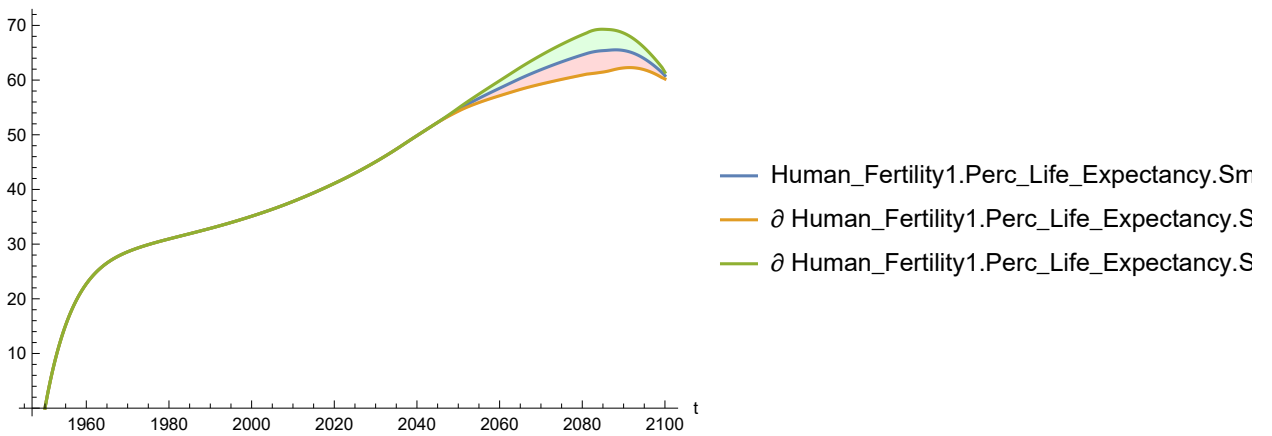
Out[133]=



In[134]:=

```
SystemModelPlot[simsensdata,
  {"Human_Fertility1.Perc_Life_Expectancy.Smooth1.Integrator1.y",
   "Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[3]", percentvar}]
```

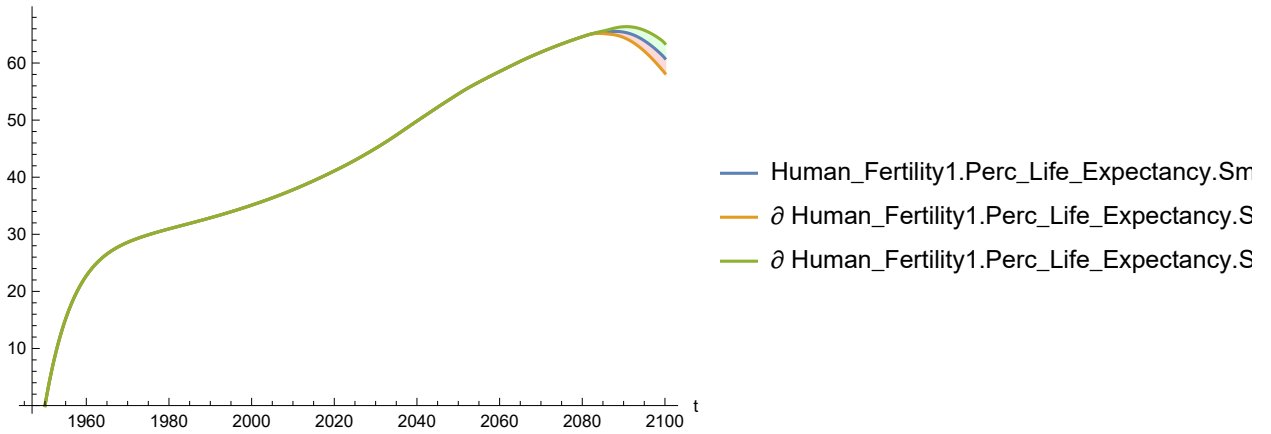
Out[134]=



In[135]:=

```
SystemModelPlot[simsensdata,
  {"Human_Fertility1.Perc_Life_Expectancy.Smooth1.Integrator1.y",
   "Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[4]", percentvar}]
```

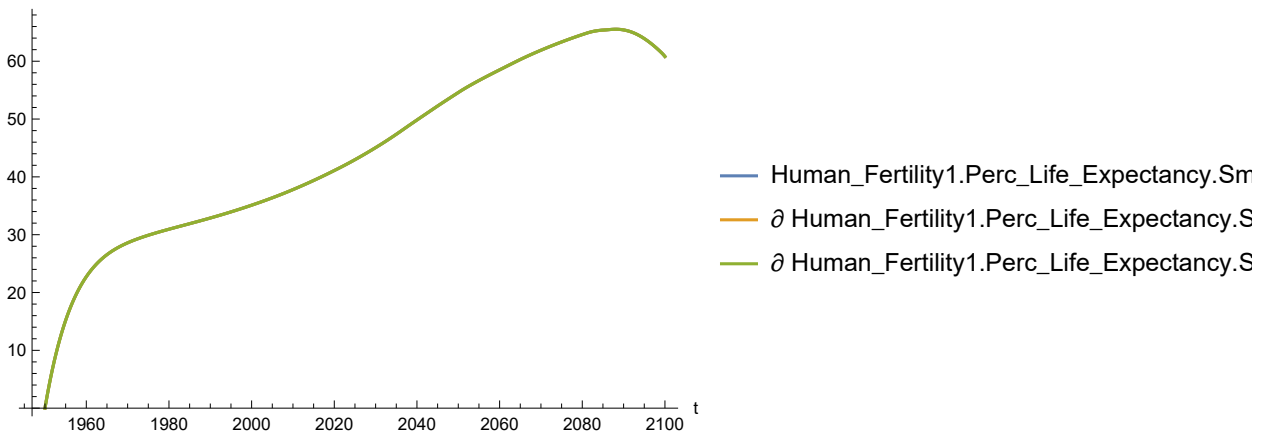
Out[135]=



In[136]:=

```
SystemModelPlot[simsensdata,
  {"Human_Fertility1.Perc_Life_Expectancy.Smooth1.Integrator1.y",
   "Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[5]", percentvar}]
```

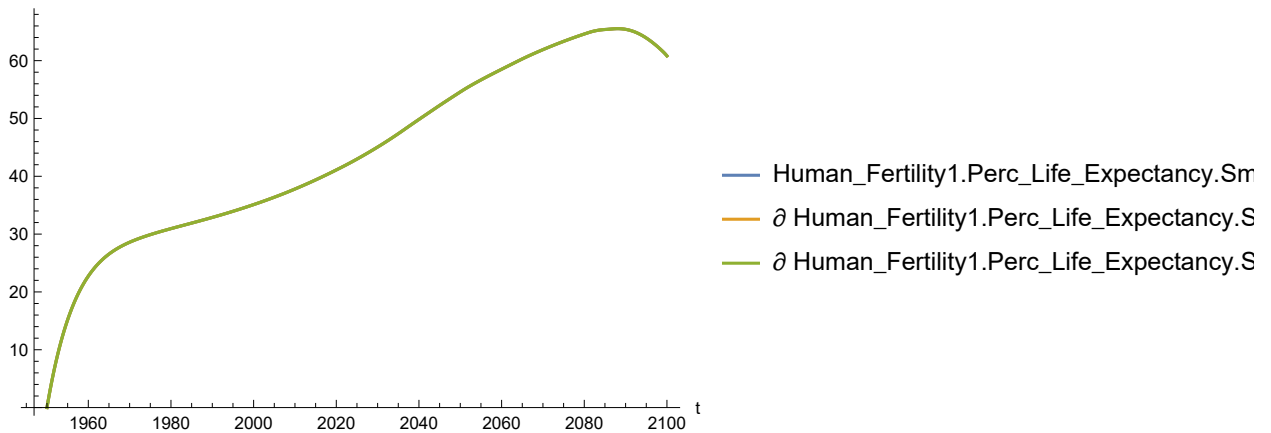
Out[136]=



In[137]:=

```
SystemModelPlot[simsensdata,
  {"Human_Fertility1.Perc_Life_Expectancy.Smooth1.Integrator1.y",
   "Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[6]", percentvar}]
```

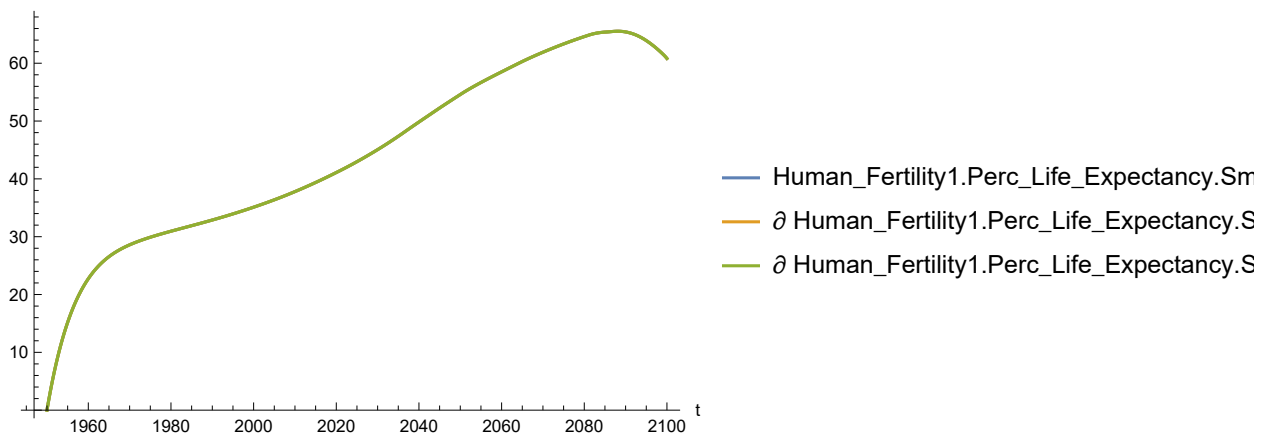
Out[137]=



In[138]:=

```
SystemModelPlot[simsensdata,
  {"Human_Fertility1.Perc_Life_Expectancy.Smooth1.Integrator1.y",
   "Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[7]", percentvar}]
```

Out[138]=

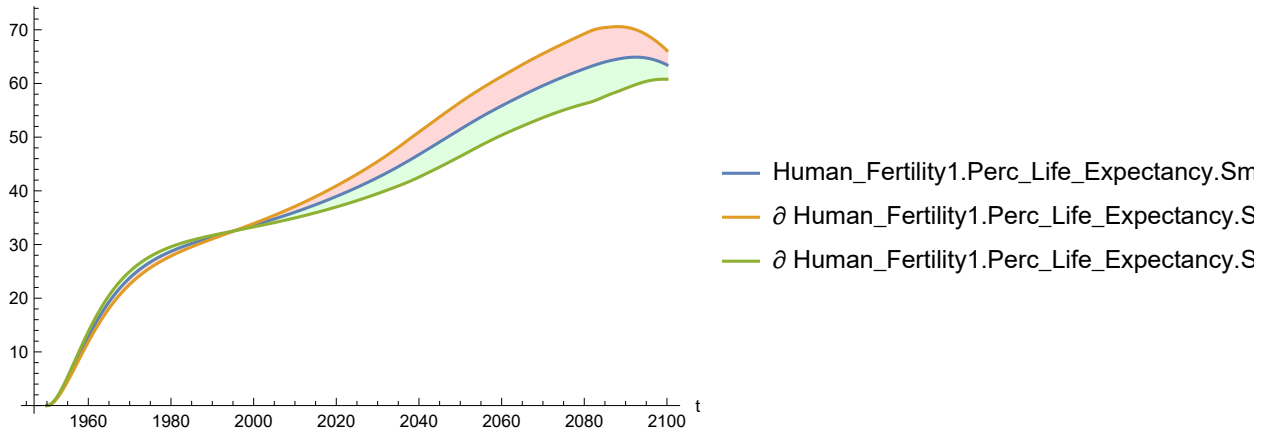


Plot the sensitivity of Human_Fertility1.Perc_Life_Expectancy.Smooth2.Integrator1.y to Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals.

In[139]:=

```
SystemModelPlot[simsensdata,
  {"Human_Fertility1.Perc_Life_Expectancy.Smooth2.Integrator1.y",
   "Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[1]", percentvar}]
```

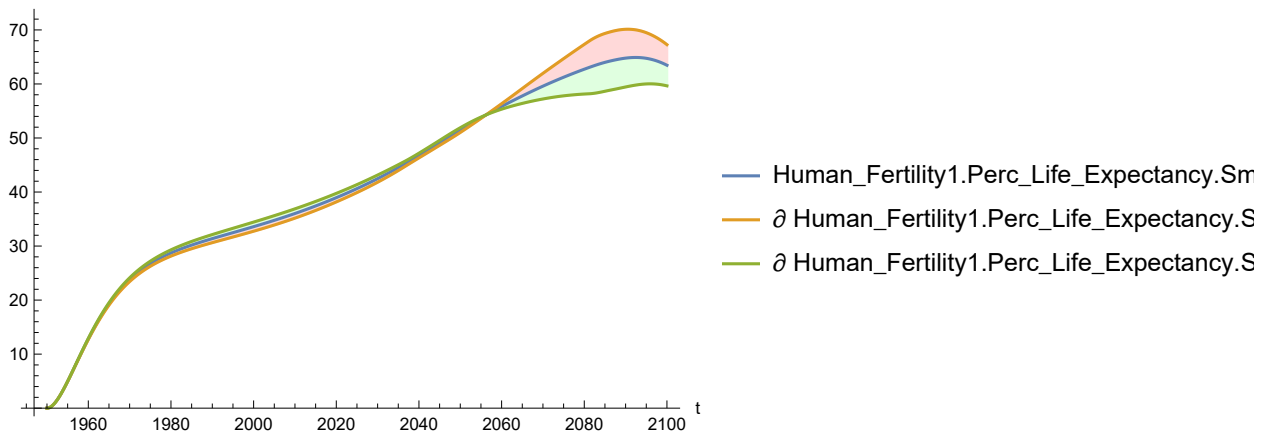
Out[139]=



In[140]:=

```
SystemModelPlot[simsensdata,
  {"Human_Fertility1.Perc_Life_Expectancy.Smooth2.Integrator1.y",
   "Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[2]", percentvar}]
```

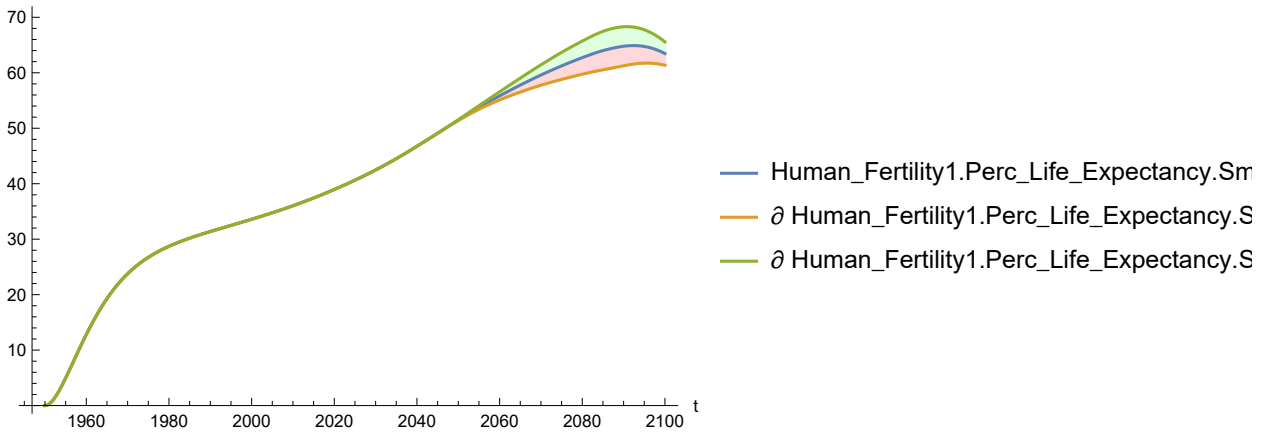
Out[140]=



In[141]:=

```
SystemModelPlot[simsensdata,
  {"Human_Fertility1.Perc_Life_Expectancy.Smooth2.Integrator1.y",
   "Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[3]", percentvar}]
```

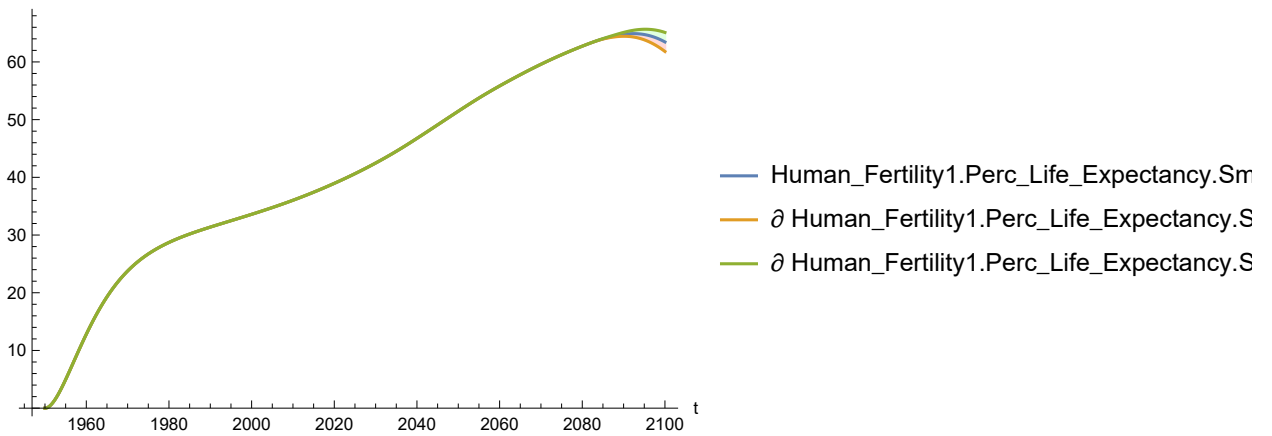
Out[141]=



In[142]:=

```
SystemModelPlot[simsensdata,
  {"Human_Fertility1.Perc_Life_Expectancy.Smooth2.Integrator1.y",
   "Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[4]", percentvar}]
```

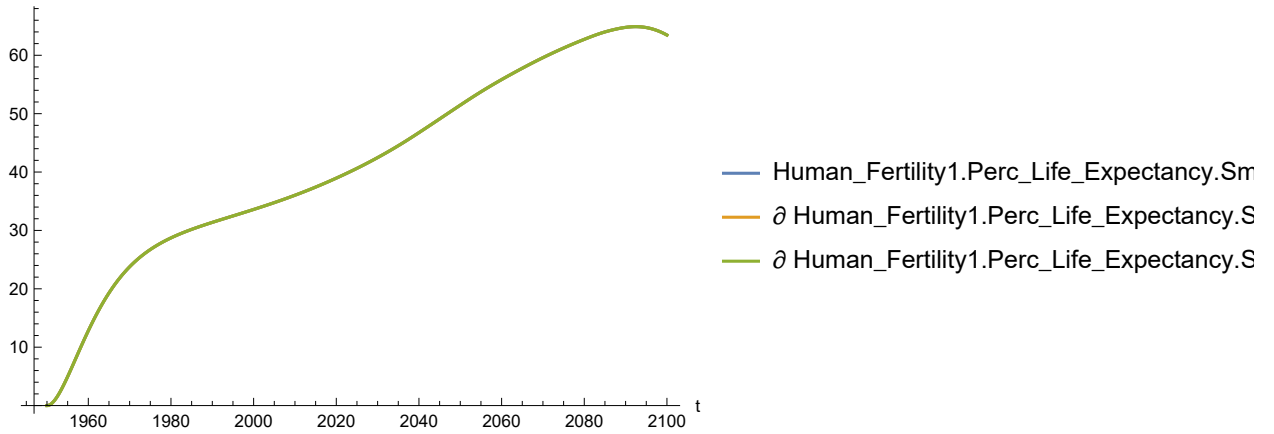
Out[142]=



In[143]:=

```
SystemModelPlot[simsensdata,
  {"Human_Fertility1.Perc_Life_Expectancy.Smooth2.Integrator1.y",
   "Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[5]", percentvar}]
```

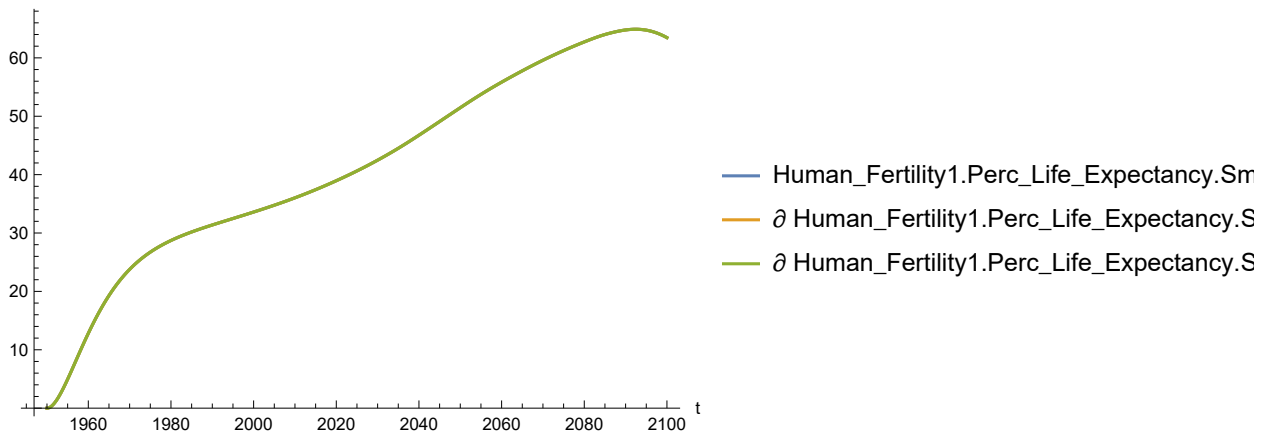
Out[143]:=



In[144]:=

```
SystemModelPlot[simsensdata,
  {"Human_Fertility1.Perc_Life_Expectancy.Smooth2.Integrator1.y",
   "Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[6]", percentvar}]
```

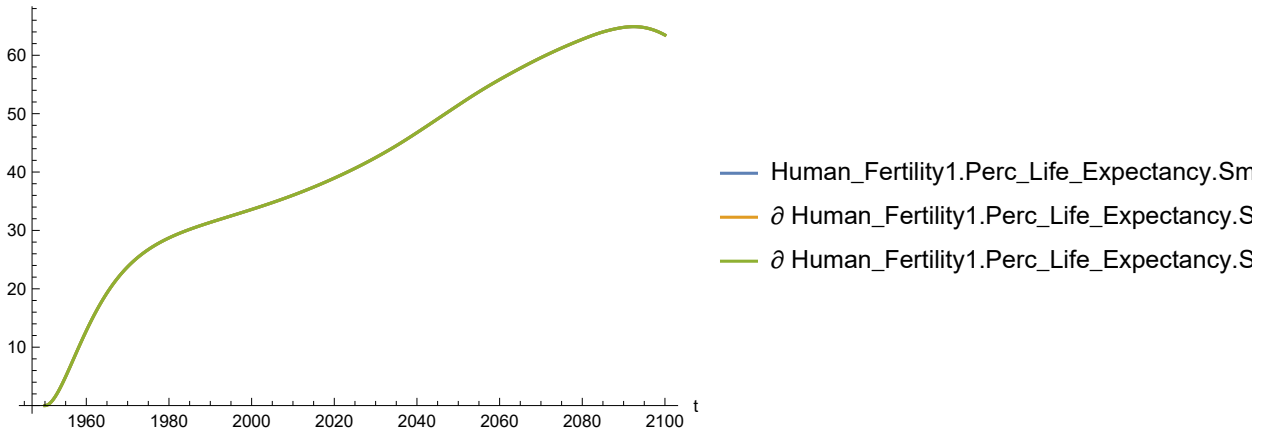
Out[144]:=



In[145]:=

```
SystemModelPlot[simsensdata,
  {"Human_Fertility1.Perc_Life_Expectancy.Smooth2.Integrator1.y",
   "Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[7]", percentvar}]
```

Out[145]=

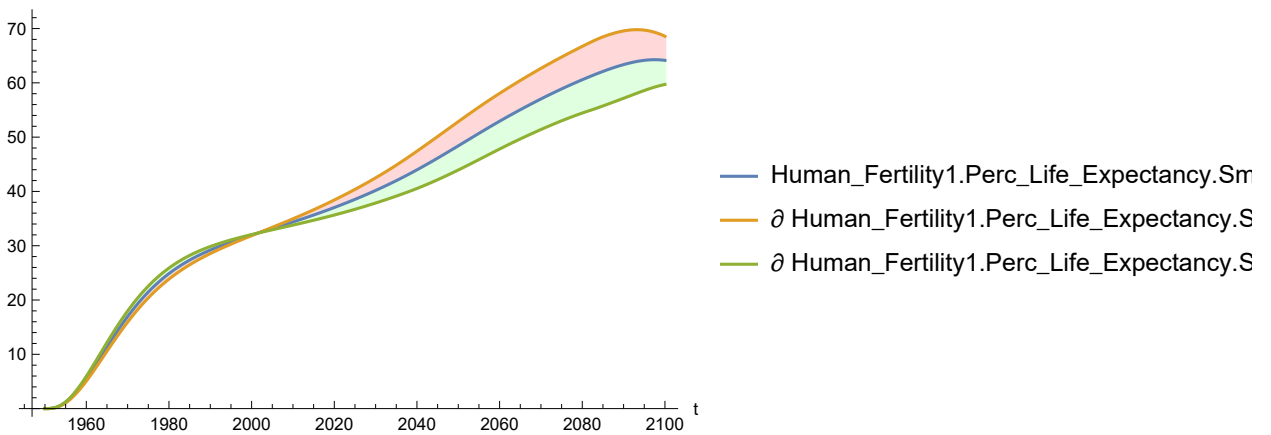


Plot the sensitivity of Human_Fertility1.Perc_Life_Expectancy.Smooth3.Integrator1.y to Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals.

In[146]:=

```
SystemModelPlot[simsensdata,
  {"Human_Fertility1.Perc_Life_Expectancy.Smooth3.Integrator1.y",
   "Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[1]", percentvar}]
```

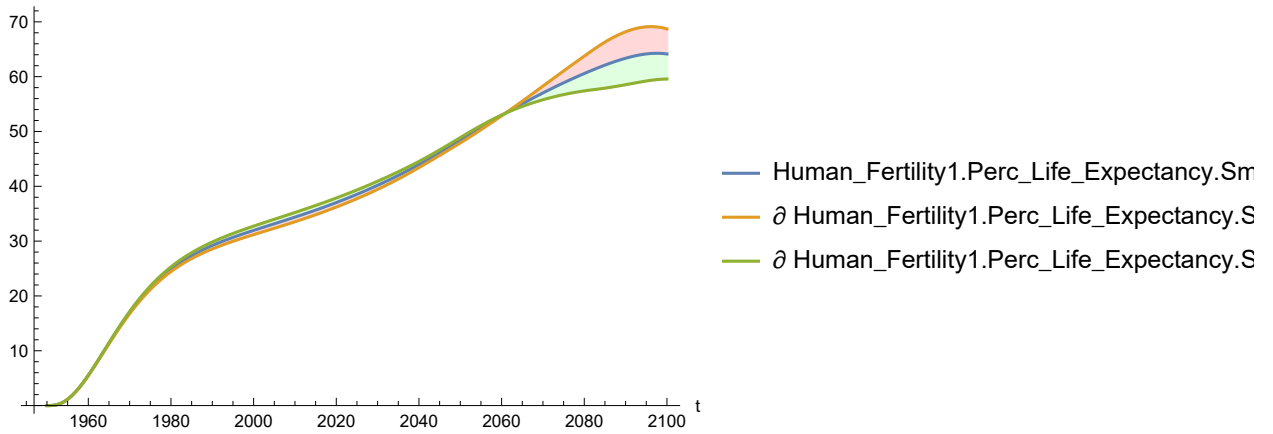
Out[146]=



In[147]:=

```
SystemModelPlot[simsensdata,
  {"Human_Fertility1.Perc_Life_Expectancy.Smooth3.Integrator1.y",
   "Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[2]", percentvar}]
```

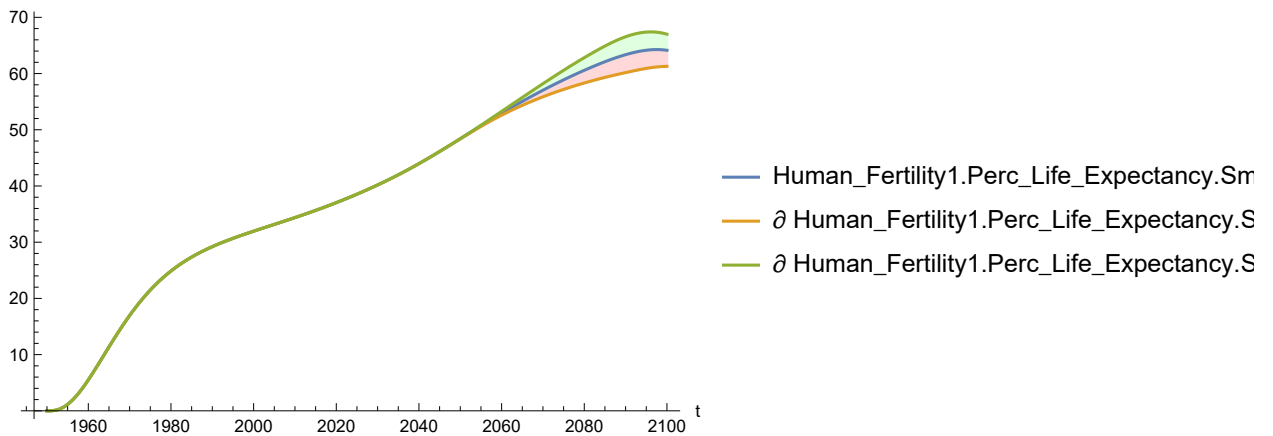
Out[147]=



In[148]:=

```
SystemModelPlot[simsensdata,
  {"Human_Fertility1.Perc_Life_Expectancy.Smooth3.Integrator1.y",
   "Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[3]", percentvar}]
```

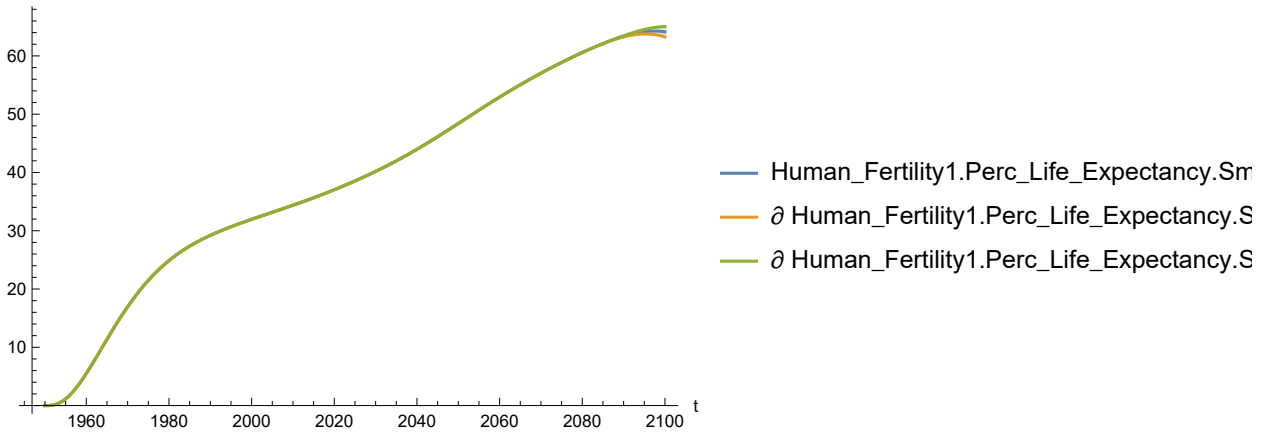
Out[148]=



In[149]:=

```
SystemModelPlot[simsensdata,
  {"Human_Fertility1.Perc_Life_Expectancy.Smooth3.Integrator1.y",
   "Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[4]", percentvar}]
```

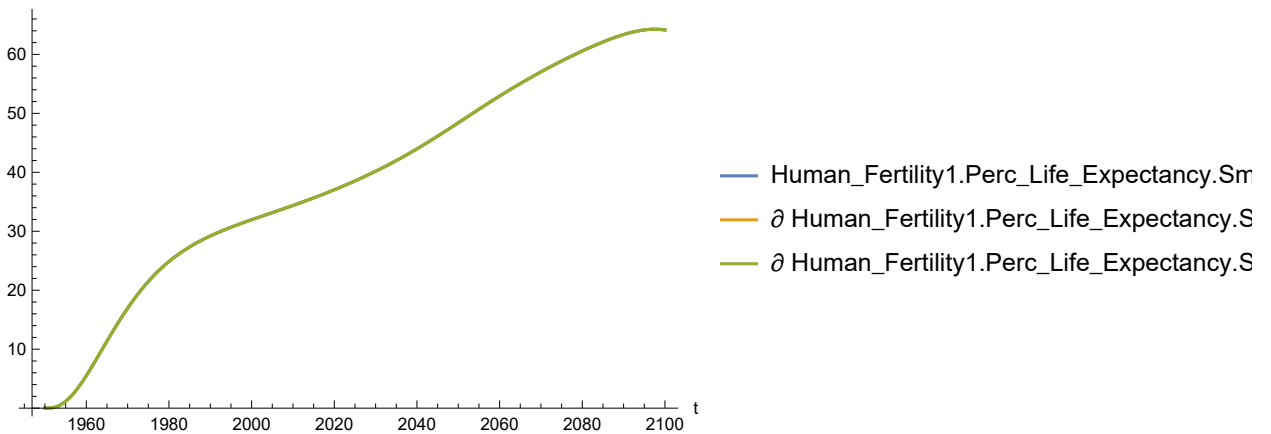
Out[149]=



In[150]:=

```
SystemModelPlot[simsensdata,
  {"Human_Fertility1.Perc_Life_Expectancy.Smooth3.Integrator1.y",
   "Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[5]", percentvar}]
```

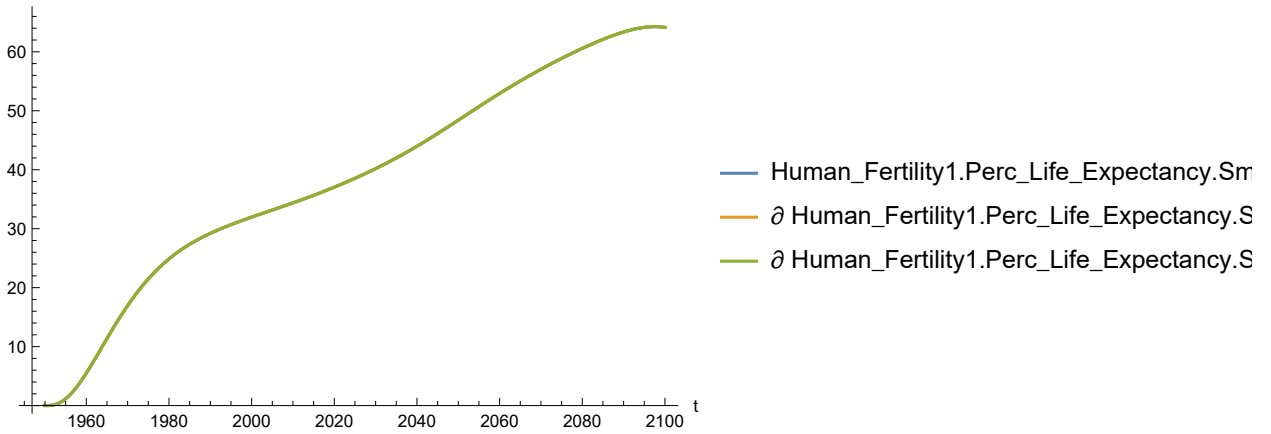
Out[150]=



In[151]:=

```
SystemModelPlot[simsensdata,
  {"Human_Fertility1.Perc_Life_Expectancy.Smooth3.Integrator1.y",
   "Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[6]", percentvar}]
```

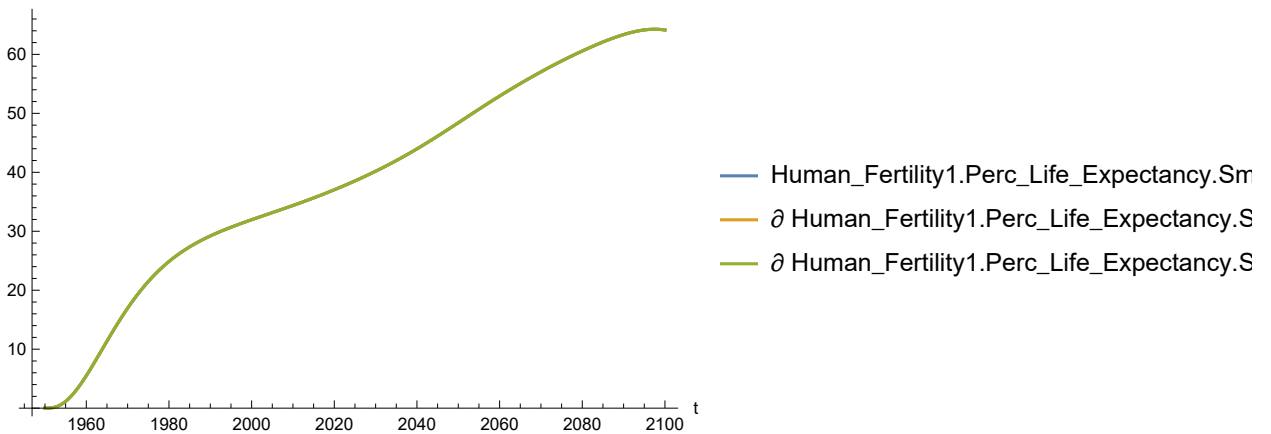
Out[151]=



In[152]:=

```
SystemModelPlot[simsensdata,
  {"Human_Fertility1.Perc_Life_Expectancy.Smooth3.Integrator1.y",
   "Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[7]", percentvar}]
```

Out[152]=

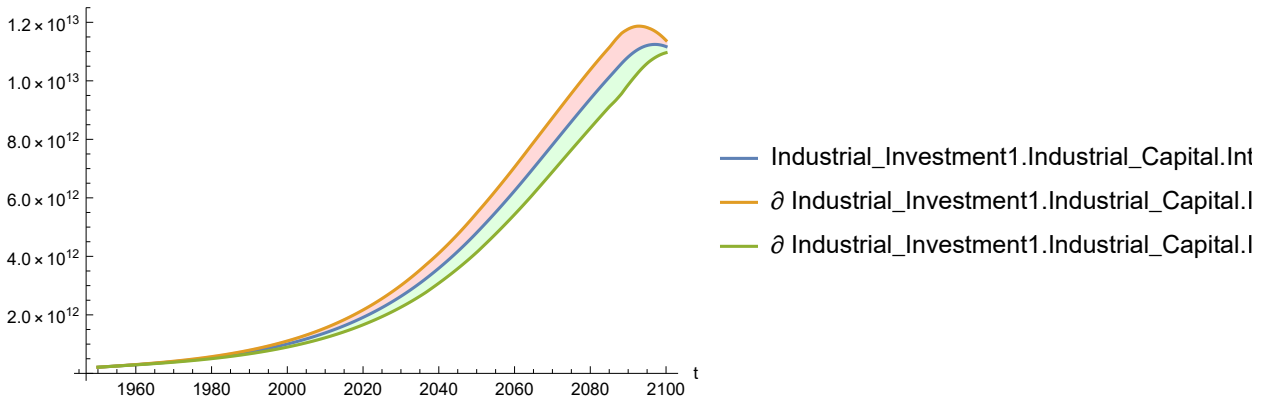


Plot the sensitivity of Industrial_Investment1.Industrial_Capital.Integrator1.y to Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals.

In[153]:=

```
SystemModelPlot[simsensdata, {"Industrial_Investment1.Industrial_Capital.Integrator1.y",
"Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[1]", percentvar}]
```

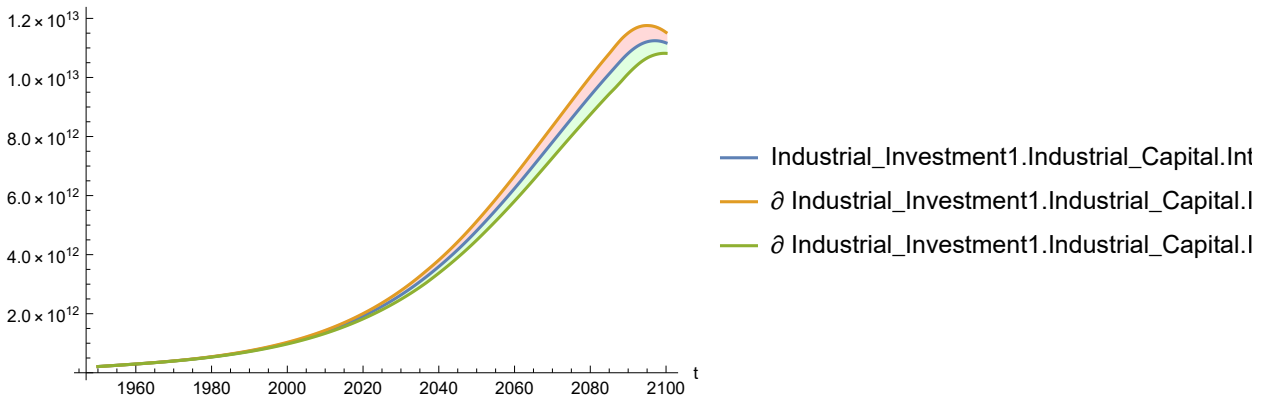
Out[153]=



In[154]:=

```
SystemModelPlot[simsensdata, {"Industrial_Investment1.Industrial_Capital.Integrator1.y",
"Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[2]", percentvar}]
```

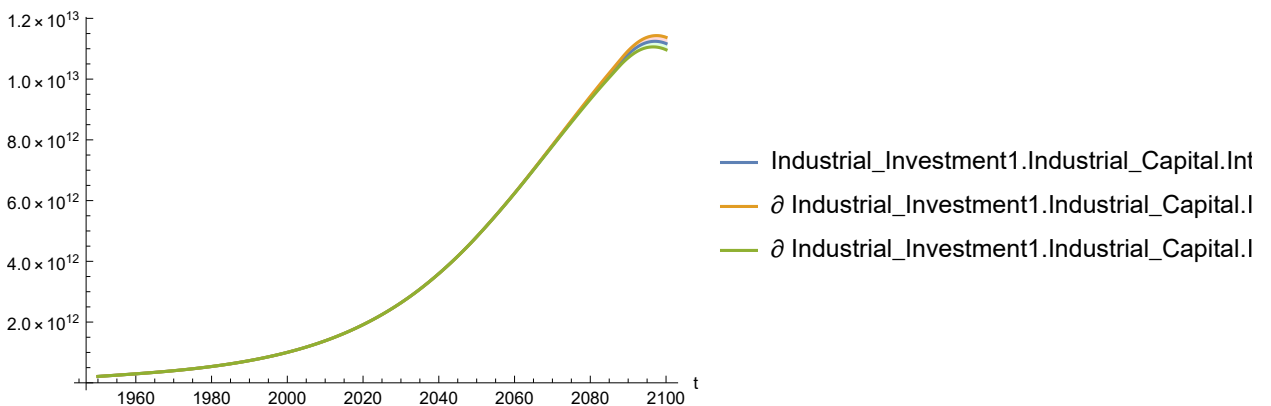
Out[154]=



In[155]:=

```
SystemModelPlot[simsensdata, {"Industrial_Investment1.Industrial_Capital.Integrator1.y",
"Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[3]", percentvar}]
```

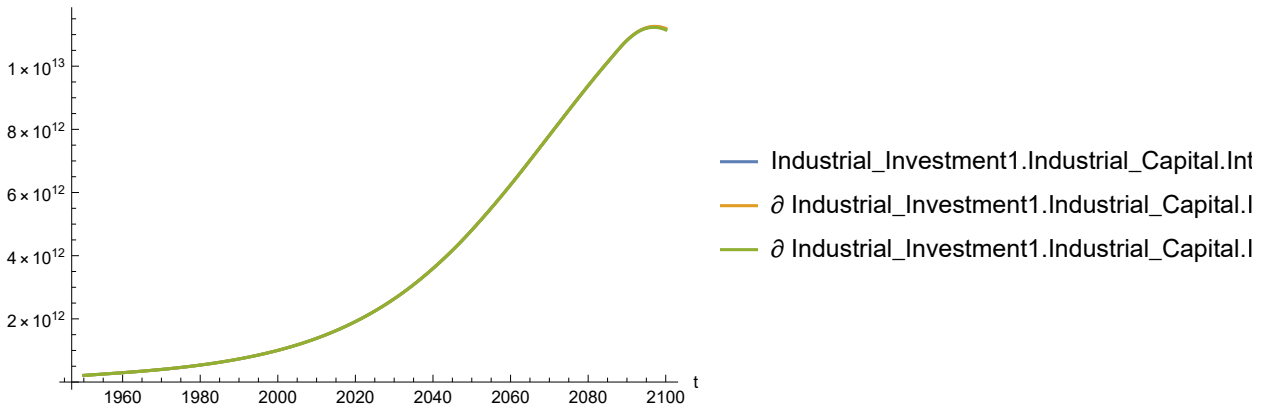
Out[155]=



In[156]:=

```
SystemModelPlot[simsensdata, {"Industrial_Investment1.Industrial_Capital.Integrator1.y",
"Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[4]", percentvar}]
```

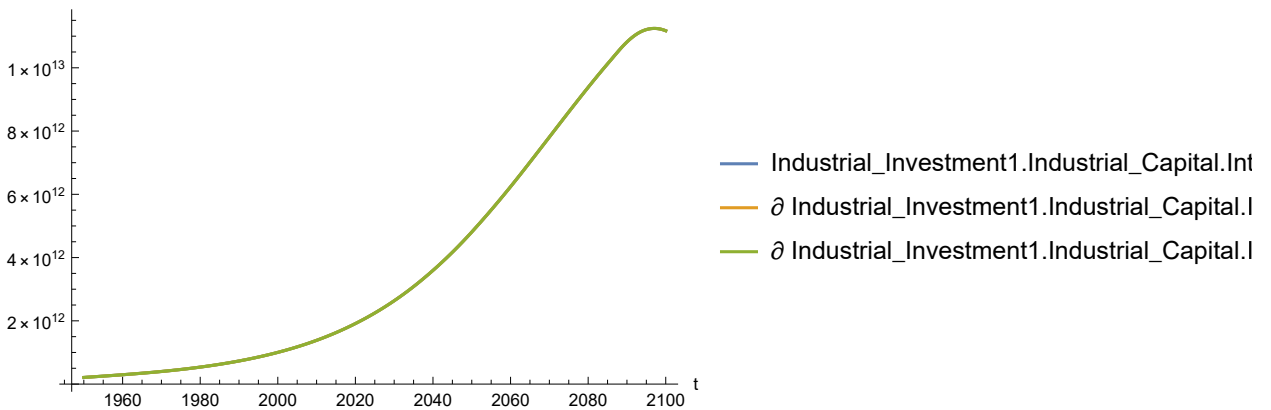
Out[156]=



In[157]:=

```
SystemModelPlot[simsensdata, {"Industrial_Investment1.Industrial_Capital.Integrator1.y",
"Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[5]", percentvar}]
```

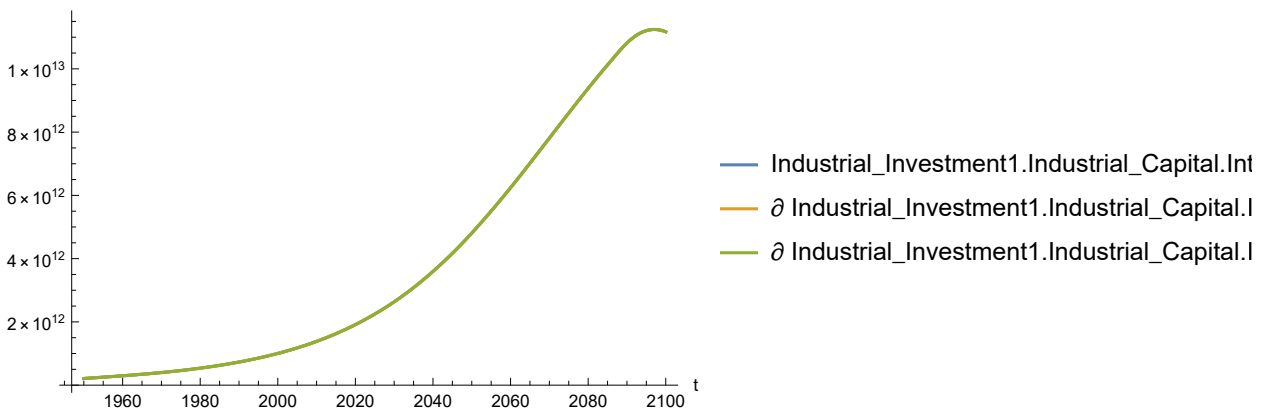
Out[157]=



In[158]:=

```
SystemModelPlot[simsensdata, {"Industrial_Investment1.Industrial_Capital.Integrator1.y",
"Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[6]", percentvar}]
```

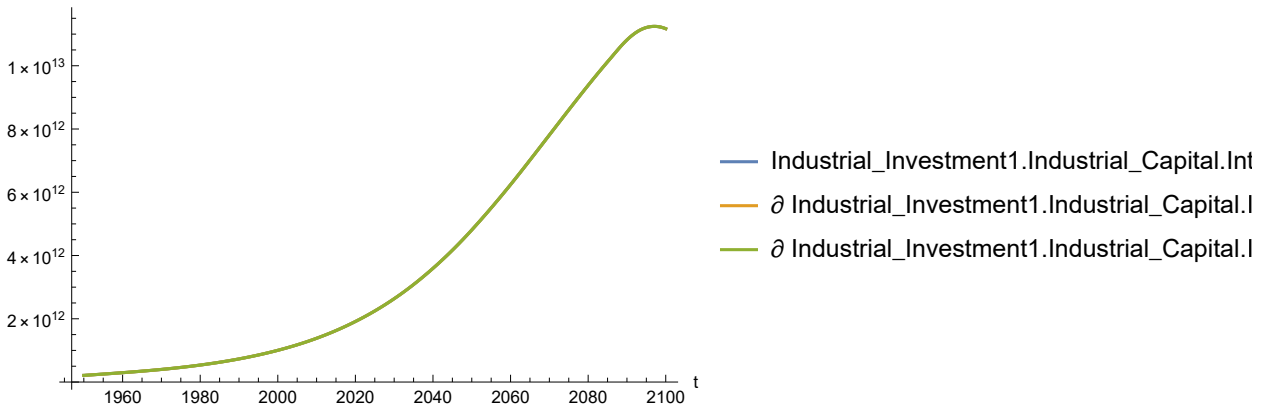
Out[158]=



In[159]:=

```
SystemModelPlot[simsensdata, {"Industrial_Investment1.Industrial_Capital.Integrator1.y",
"Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[7]", percentvar}]
```

Out[159]=

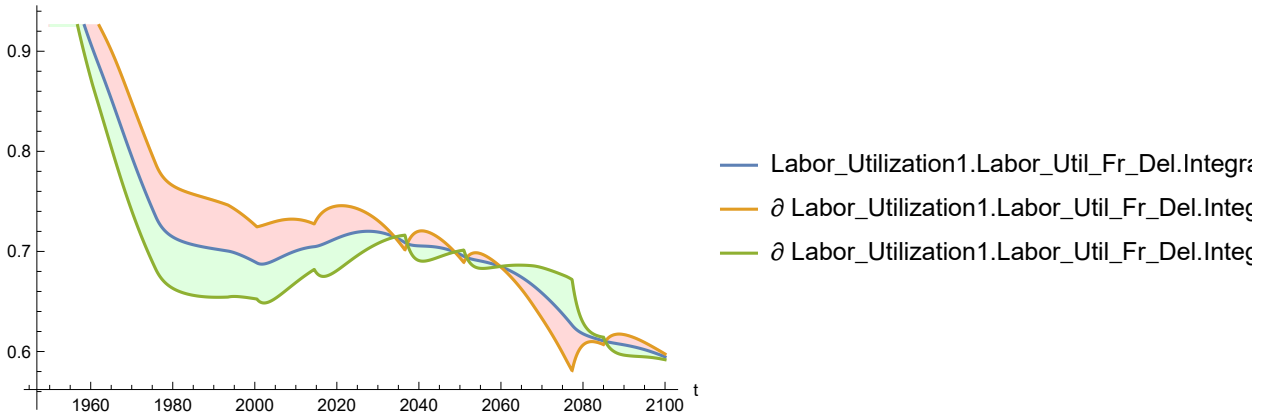


Plot the sensitivity of Labor_Utilization1.Labor_Util_Fr_Del.Integrator1.y to Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals.

In[160]:=

```
SystemModelPlot[simsensdata, {"Labor_Utilization1.Labor_Util_Fr_Del.Integrator1.y",
"Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[1]", percentvar}]
```

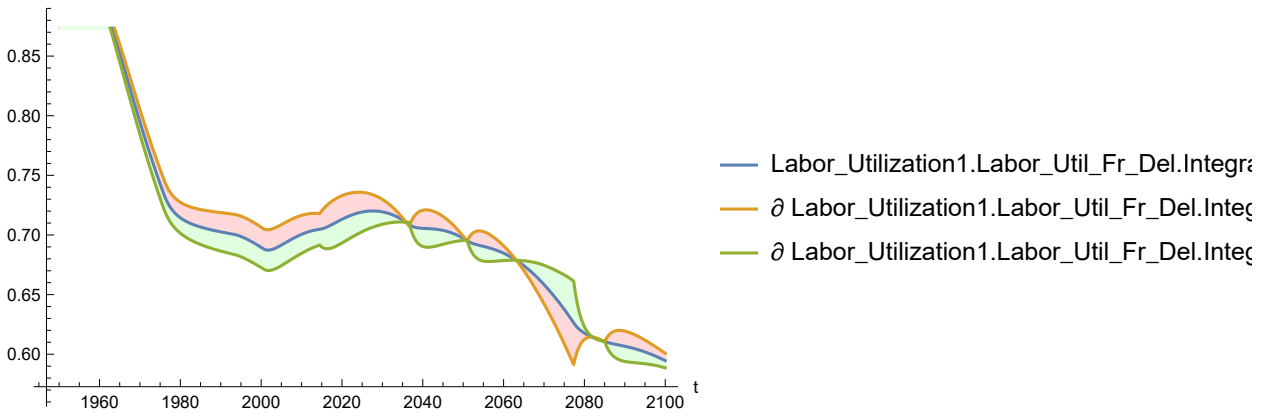
Out[160]=



In[161]:=

```
SystemModelPlot[simsensdata, {"Labor_Utilization1.Labor_Util_Fr_Del.Integrator1.y",
"Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[2]", percentvar}]
```

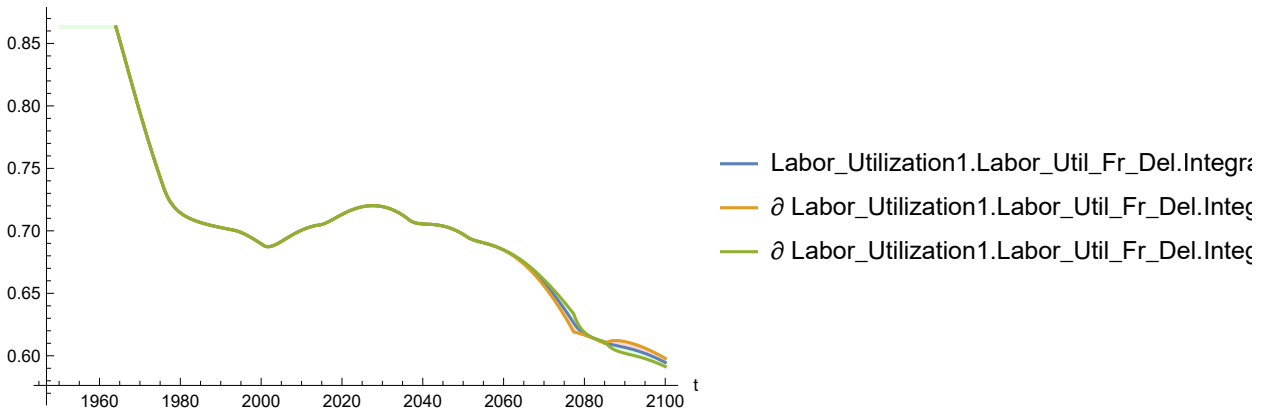
Out[161]=



In[162]:=

```
SystemModelPlot[simsensdata, {"Labor_Utilization1.Labor_Util_Fr_Del.Integrator1.y",
"Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[3]", percentvar}]
```

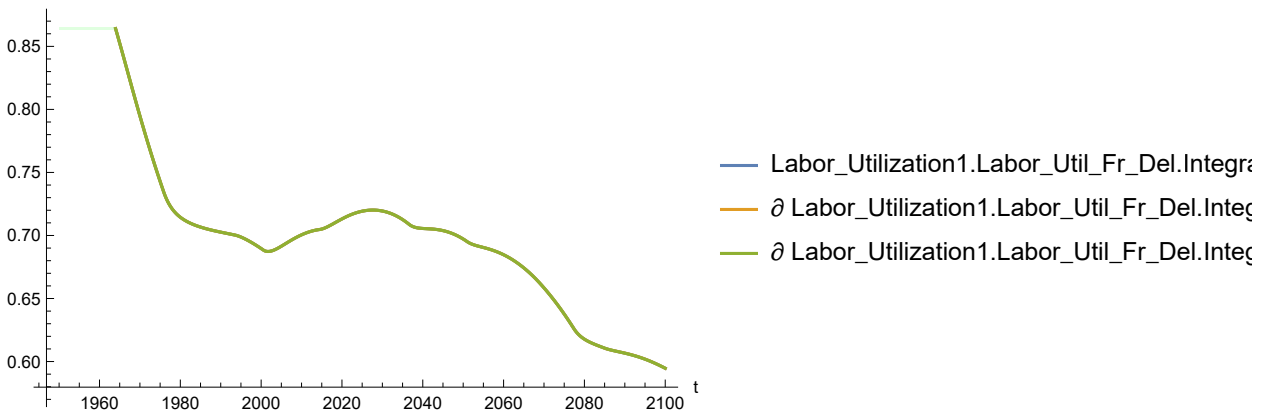
Out[162]=



In[163]:=

```
SystemModelPlot[simsensdata, {"Labor_Utilization1.Labor_Util_Fr_Del.Integrator1.y",
"Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[4]", percentvar}]
```

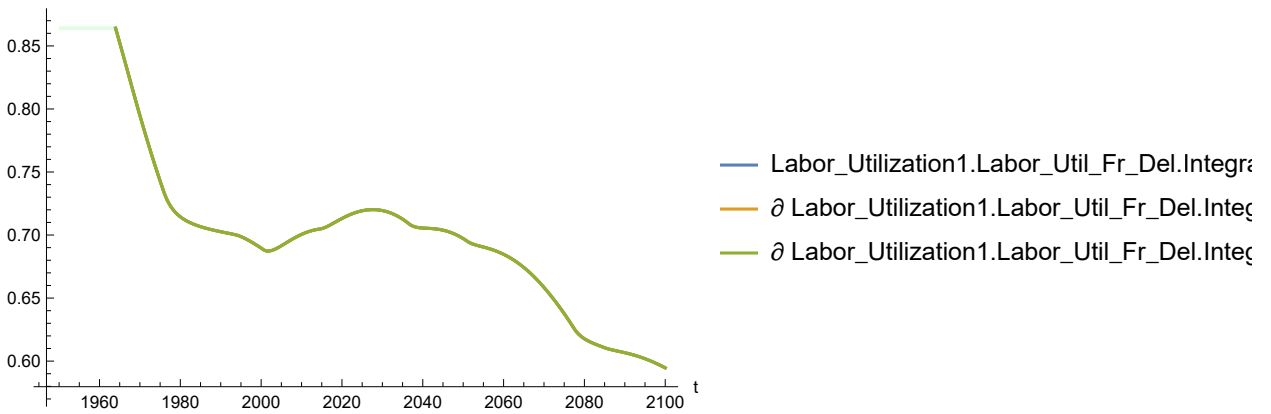
Out[163]=



In[164]:=

```
SystemModelPlot[simsensdata, {"Labor_Utilization1.Labor_Util_Fr_Del.Integrator1.y",
"Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[5]", percentvar}]
```

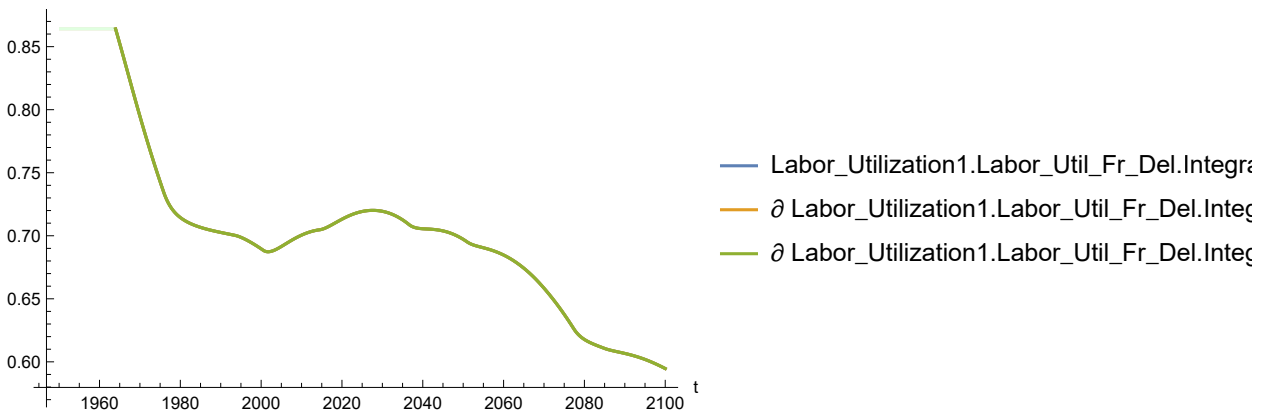
Out[164]=



In[165]:=

```
SystemModelPlot[simsensdata, {"Labor_Utilization1.Labor_Util_Fr_Del.Integrator1.y",
"Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[6]", percentvar}]
```

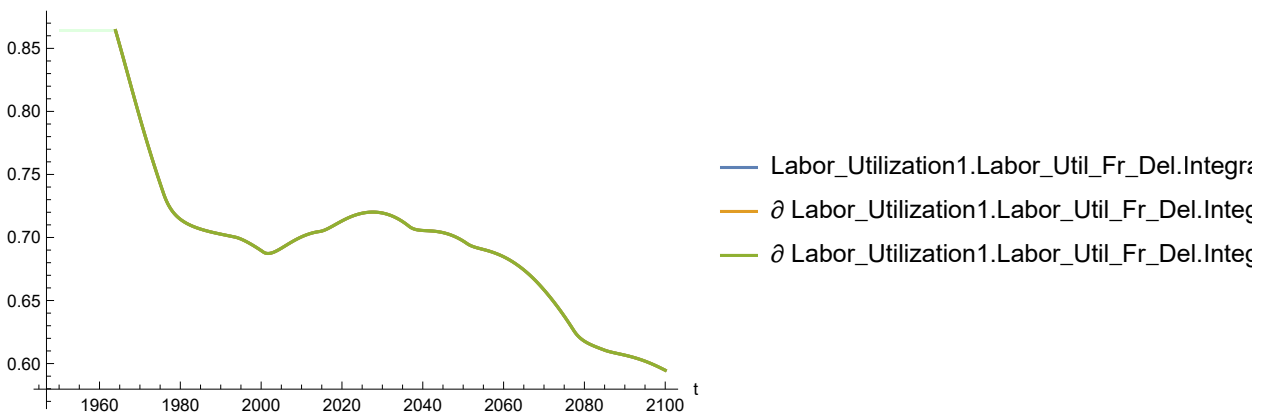
Out[165]=



In[166]:=

```
SystemModelPlot[simsensdata, {"Labor_Utilization1.Labor_Util_Fr_Del.Integrator1.y",
"Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[7]", percentvar}]
```

Out[166]=

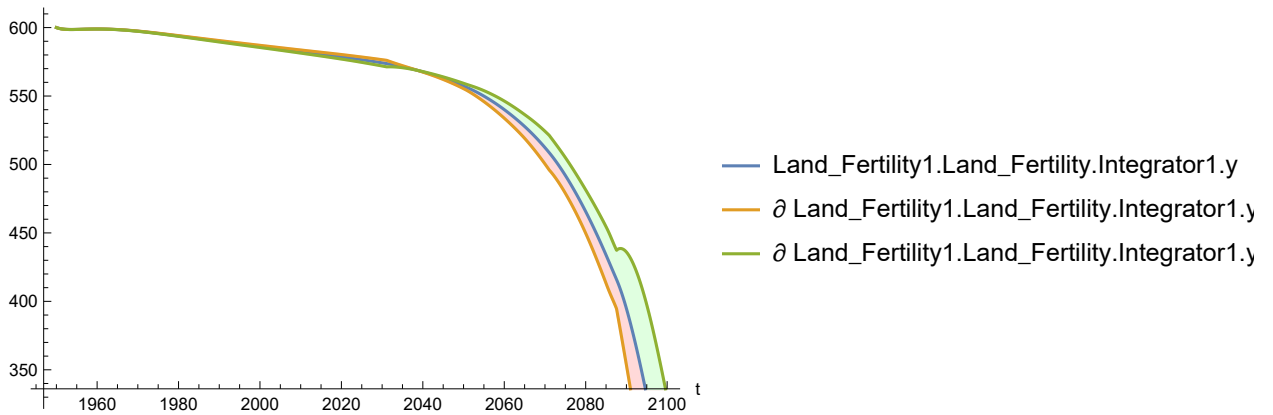


Plot the sensitivity of Land_Fertility1.Land_Fertility.Integrator1.y to Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals.

In[167]:=

```
SystemModelPlot[simsensdata, {"Land_Fertility1.Land_Fertility.Integrator1.y",
    "Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[1]", percentvar}]
```

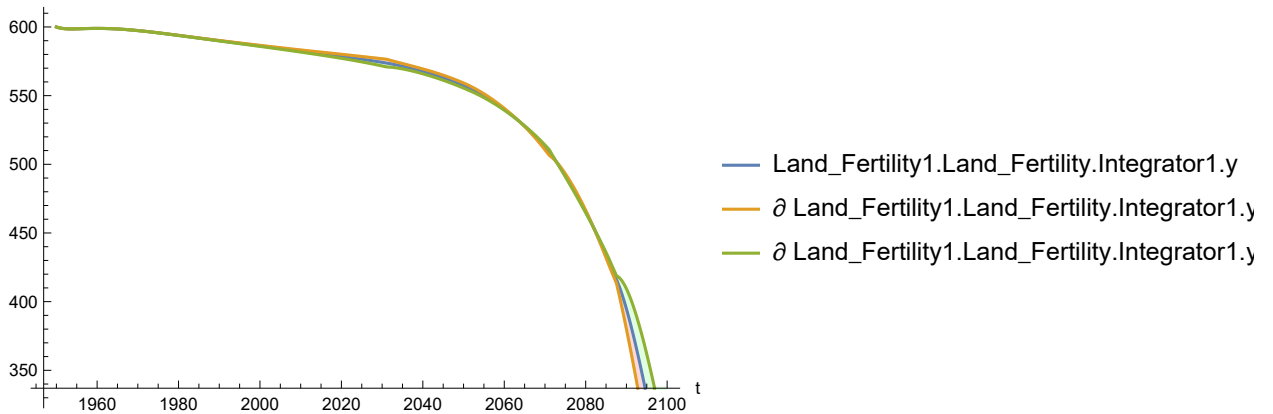
Out[167]=



In[168]:=

```
SystemModelPlot[simsensdata, {"Land_Fertility1.Land_Fertility.Integrator1.y",
    "Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[2]", percentvar}]
```

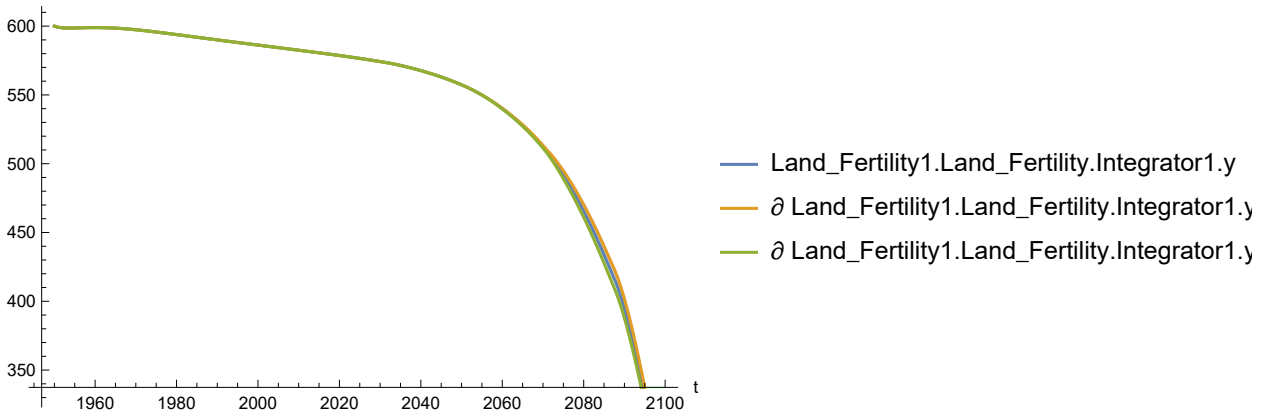
Out[168]=



In[169]:=

```
SystemModelPlot[simsensdata, {"Land_Fertility1.Land_Fertility.Integrator1.y",
    "Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[3]", percentvar}]
```

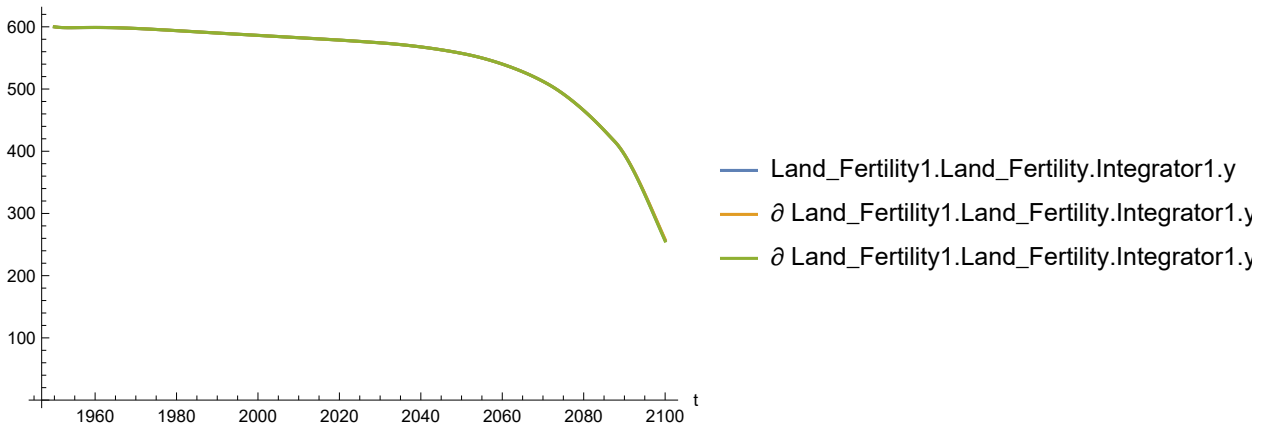
Out[169]=



In[170]:=

```
SystemModelPlot[simsensdata, {"Land_Fertility1.Land_Fertility.Integrator1.y",
    "Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[4]", percentvar}]
```

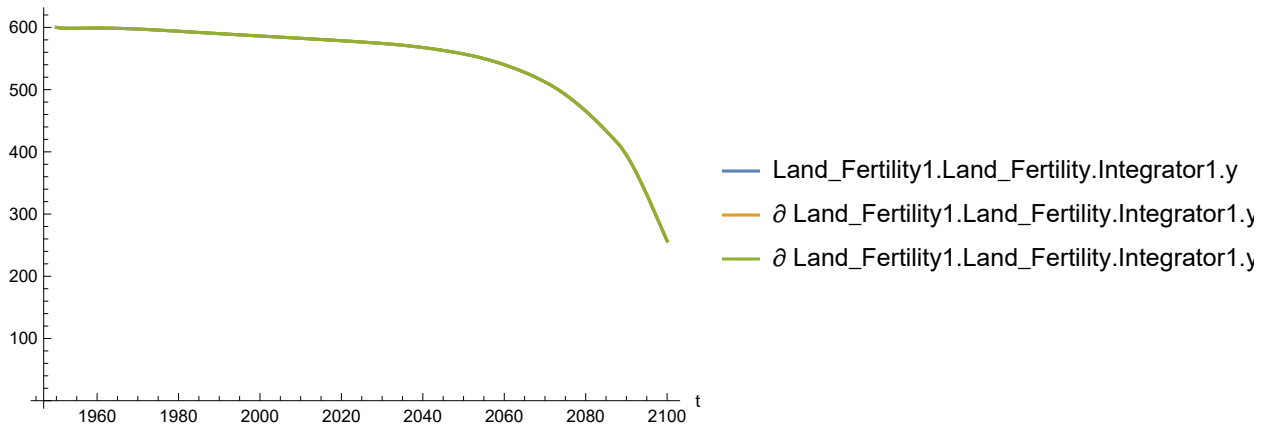
Out[170]=



In[171]:=

```
SystemModelPlot[simsensdata, {"Land_Fertility1.Land_Fertility.Integrator1.y",
    "Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[5]", percentvar}]
```

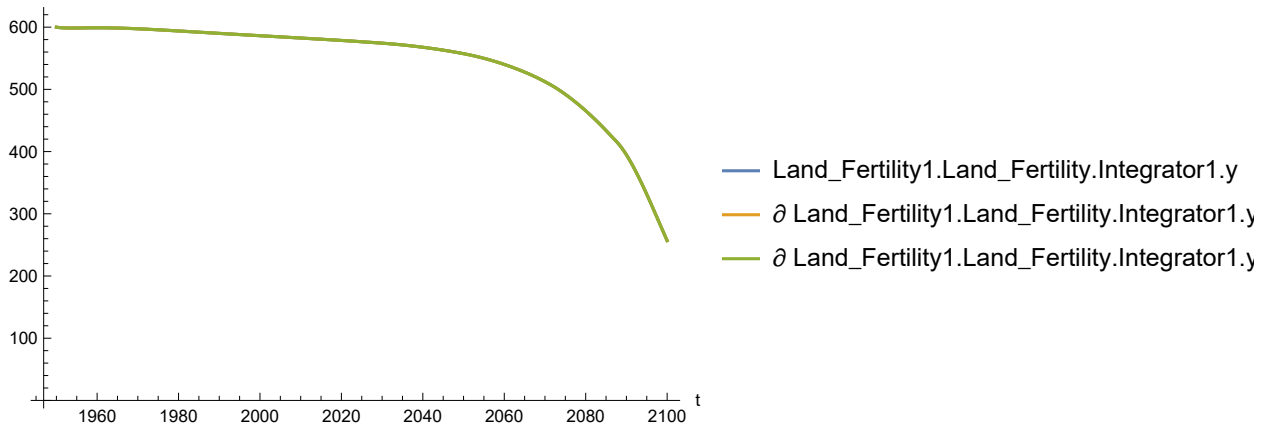
Out[171]=



In[172]:=

```
SystemModelPlot[simsensdata, {"Land_Fertility1.Land_Fertility.Integrator1.y",
    "Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[6]", percentvar}]
```

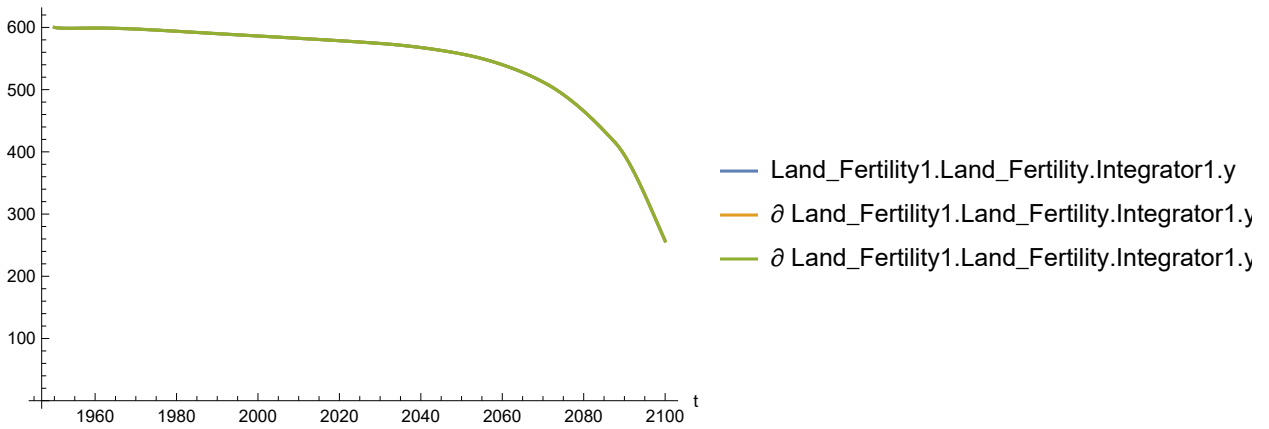
Out[172]=



In[173]:=

```
SystemModelPlot[simsensdata, {"Land_Fertility1.Land_Fertility.Integrator1.y",
"Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[7]", percentvar}]
```

Out[173]:=

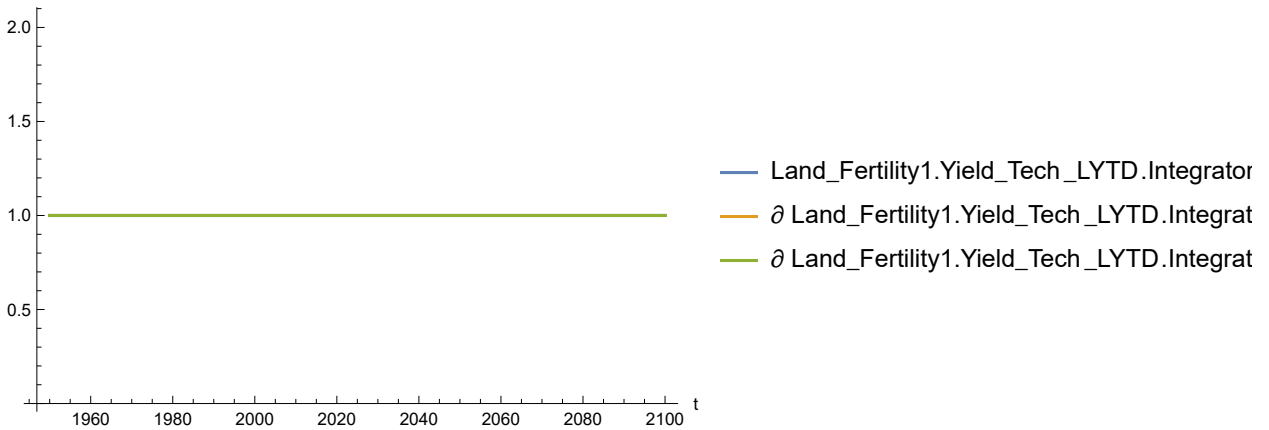


Plot the sensitivity of `Land_Fertility1.Yield_Tech_LYTD.Integrator1.y` to `Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals`.

In[174]:=

```
SystemModelPlot[simsensdata, {"Land_Fertility1.Yield_Tech_LYTD.Integrator1.y",
"Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[1]", percentvar}]
```

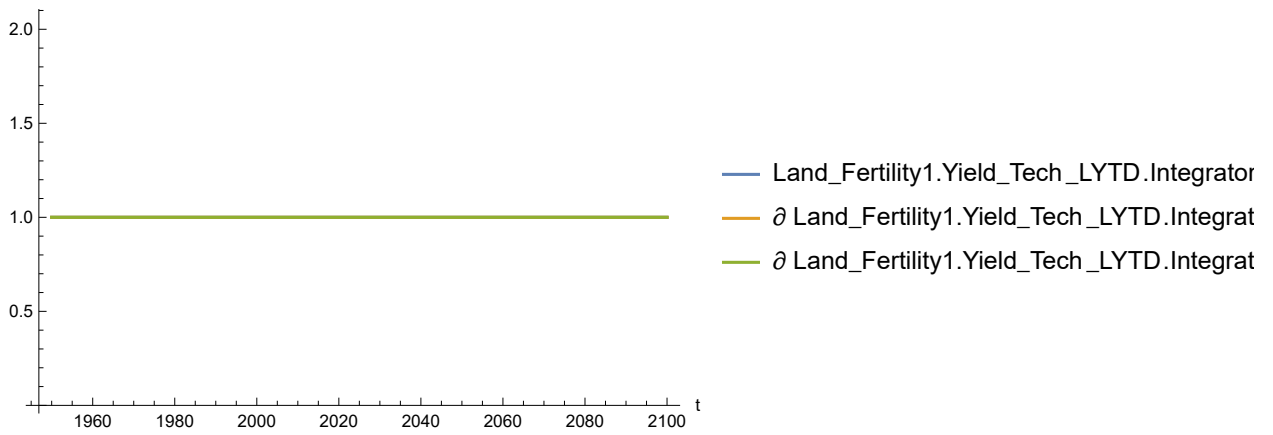
Out[174]:=



In[175]:=

```
SystemModelPlot[simsensdata, {"Land_Fertility1.Yield_Tech_LYTD.Integrator1.y",
"Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[2]", percentvar}]
```

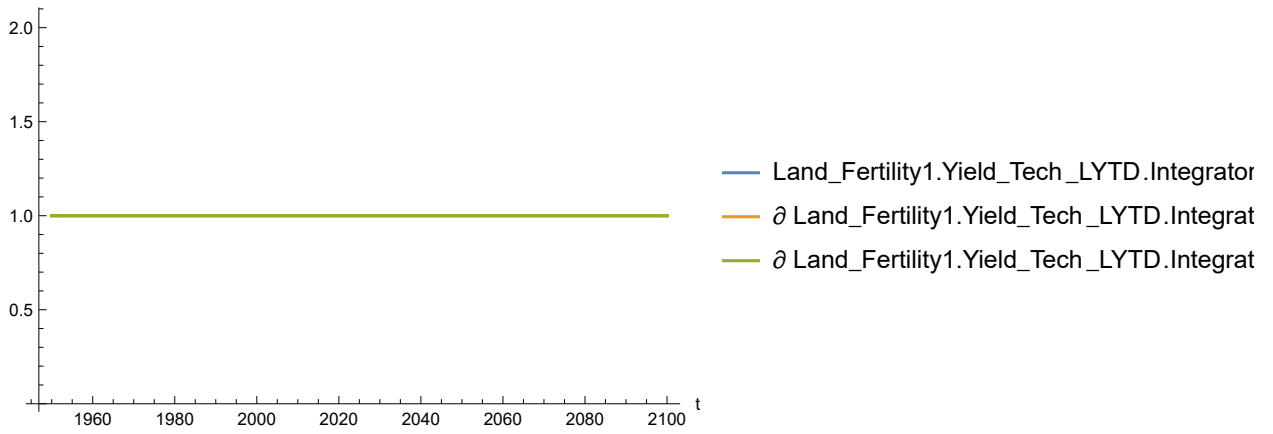
Out[175]=



In[176]:=

```
SystemModelPlot[simsensdata, {"Land_Fertility1.Yield_Tech_LYTD.Integrator1.y",
"Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[3]", percentvar}]
```

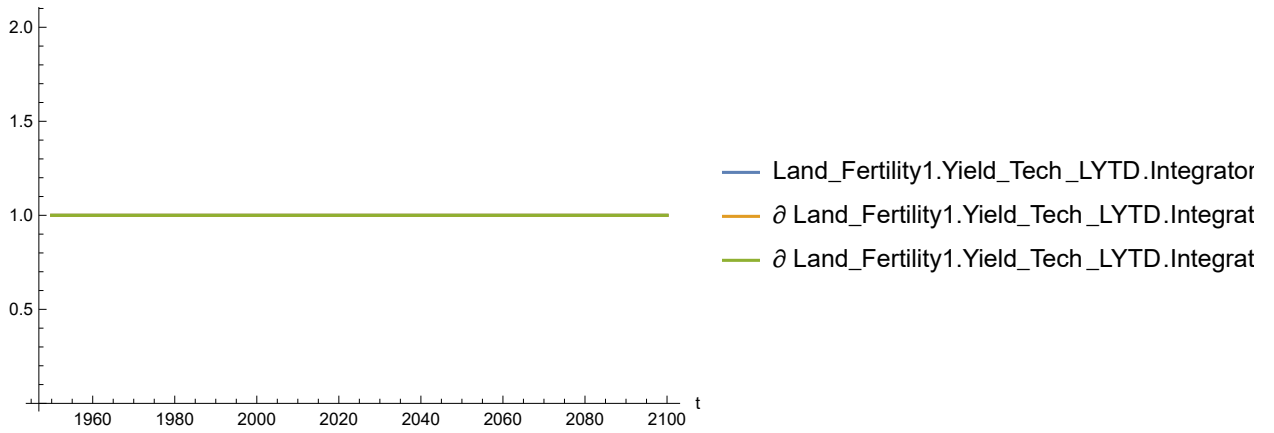
Out[176]=



In[177]:=

```
SystemModelPlot[simsensdata, {"Land_Fertility1.Yield_Tech_LYTD.Integrator1.y",
"Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[4]", percentvar}]
```

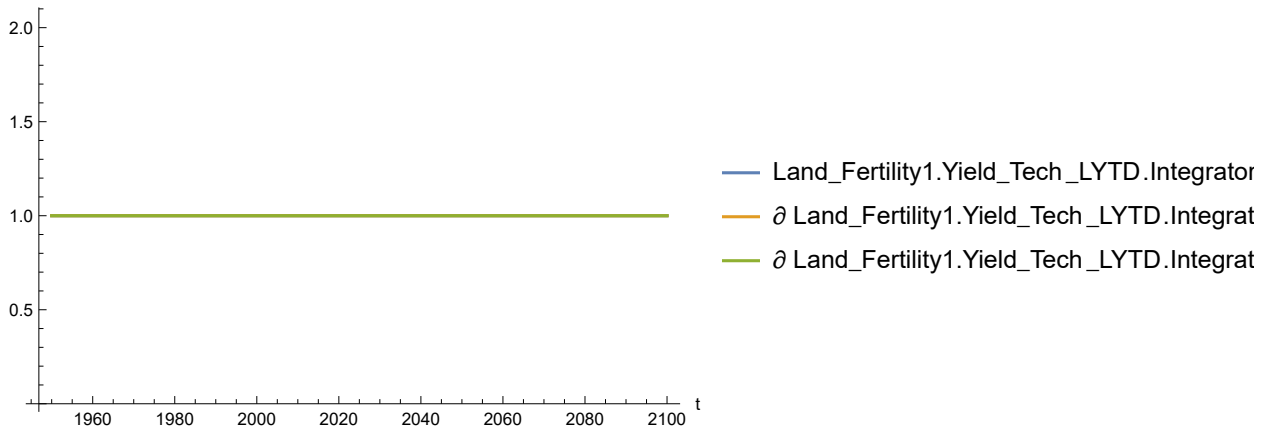
Out[177]=



In[178]:=

```
SystemModelPlot[simsensdata, {"Land_Fertility1.Yield_Tech_LYTD.Integrator1.y",
"Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[5]", percentvar}]
```

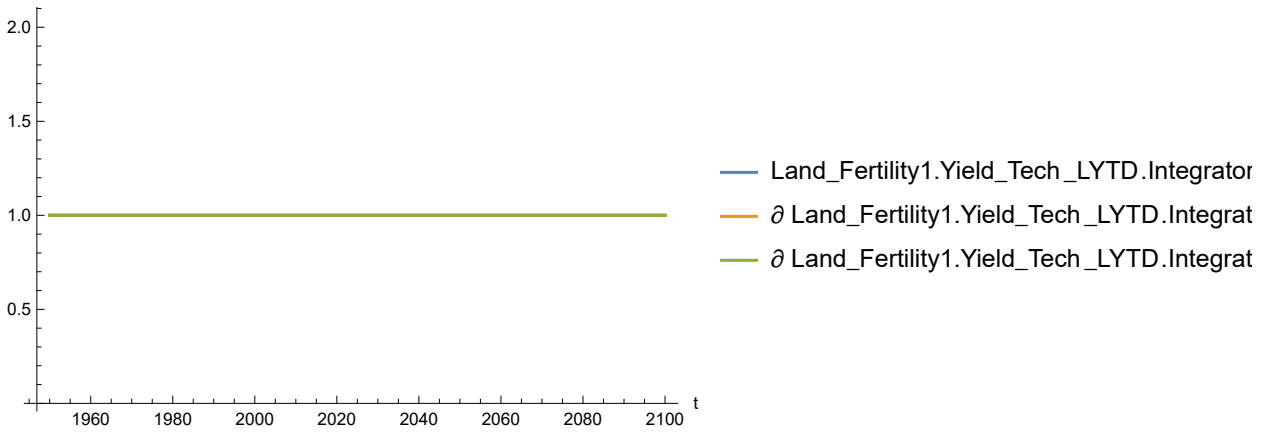
Out[178]=



In[179]:=

```
SystemModelPlot[simsensdata, {"Land_Fertility1.Yield_Tech_LYTD.Integrator1.y",
"Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[6]", percentvar}]
```

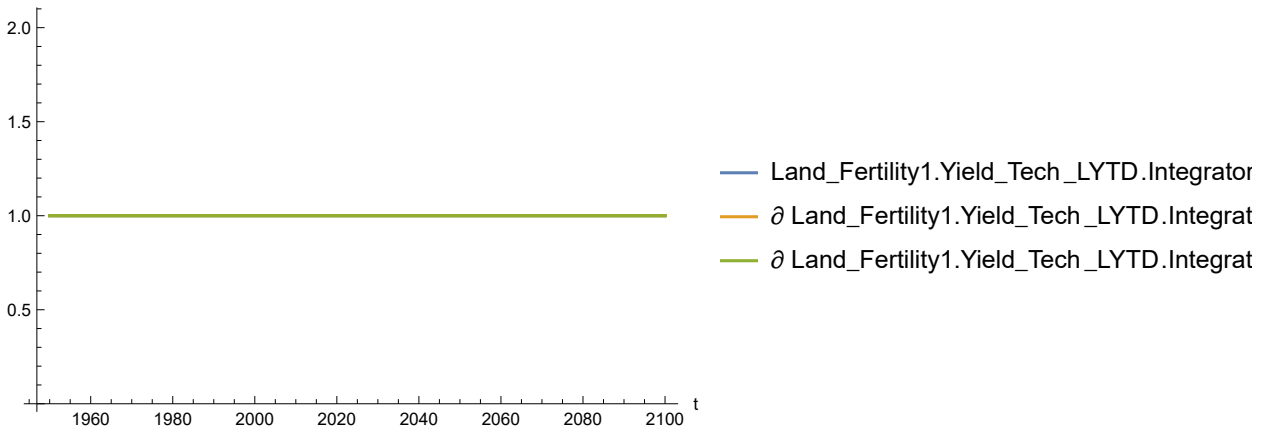
Out[179]=



In[180]:=

```
SystemModelPlot[simsensdata, {"Land_Fertility1.Yield_Tech_LYTD.Integrator1.y",
"Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[7]", percentvar}]
```

Out[180]=

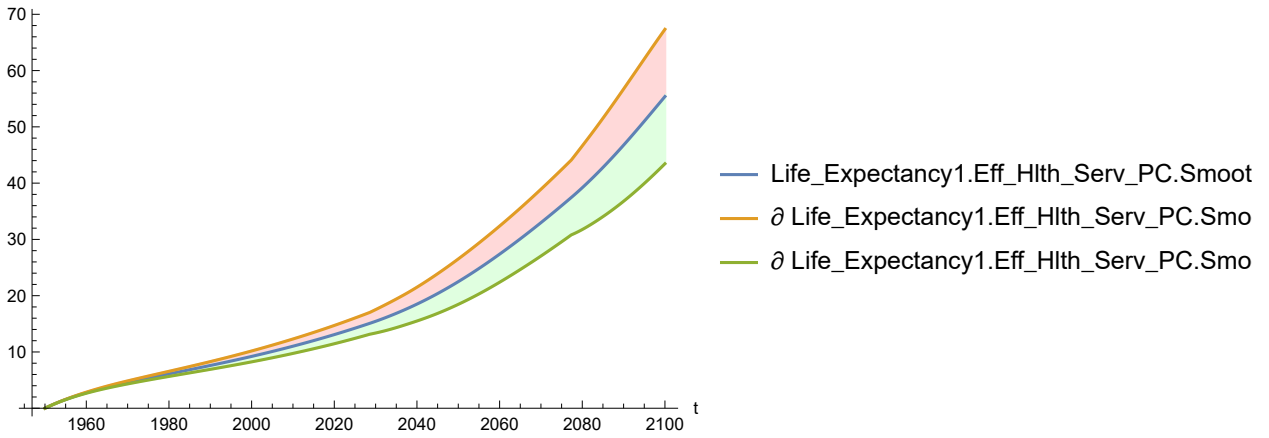


Plot the sensitivity of Life_Expectancy1.Eff_Hlth_Serv_PC.Smooth_of_Input.Integrator1.y to Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals.

In[181]:=

```
SystemModelPlot[simsensdata,
  {"Life_Expectancy1.Eff_Hlth_Serv_PC.Smooth_of_Input.Integrator1.y",
   "Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[1]", percentvar}]
```

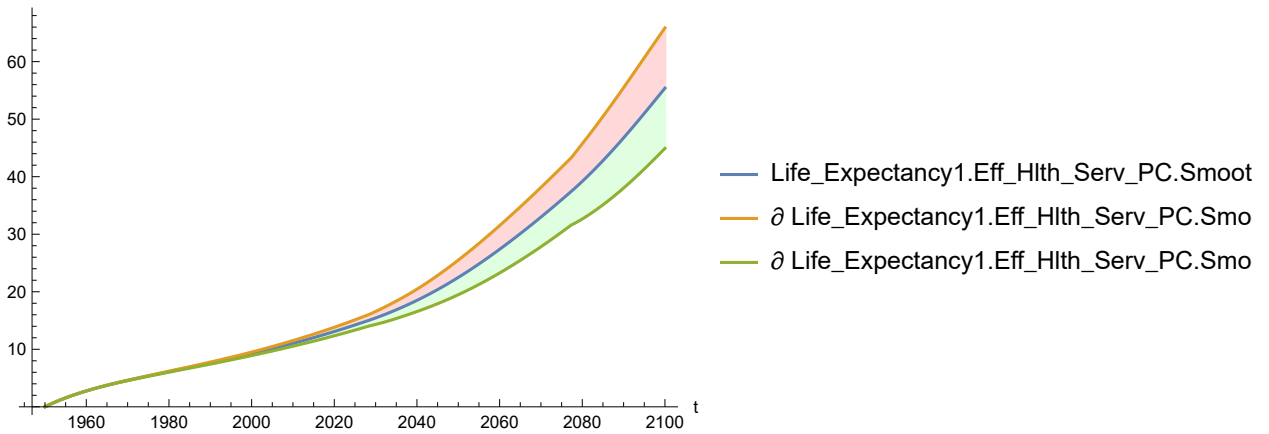
Out[181]=



In[182]:=

```
SystemModelPlot[simsensdata,
  {"Life_Expectancy1.Eff_Hlth_Serv_PC.Smooth_of_Input.Integrator1.y",
   "Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[2]", percentvar}]
```

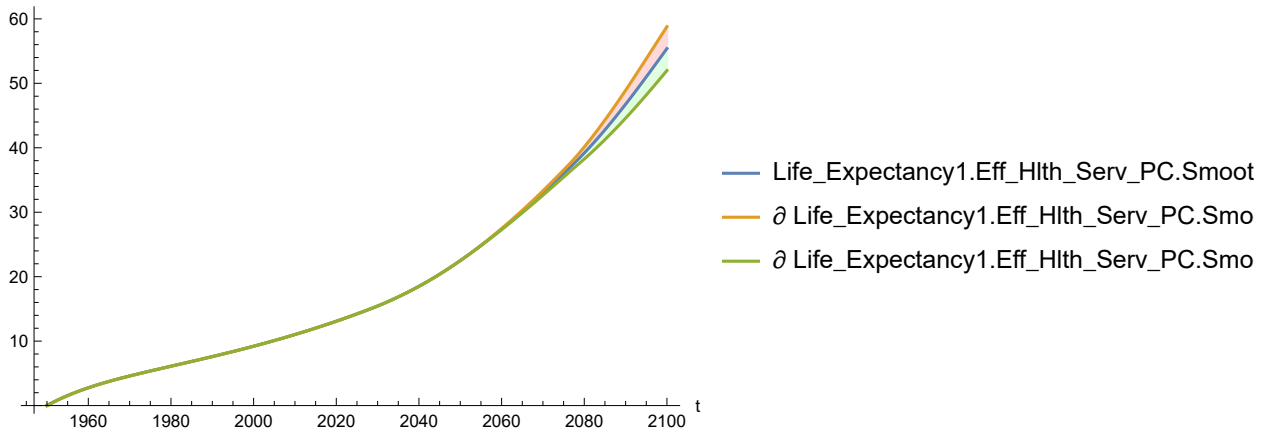
Out[182]=



In[183]:=

```
SystemModelPlot[simsensdata,
  {"Life_Expectancy1.Eff_Hlth_Serv_PC.Smooth_of_Input.Integrator1.y",
   "Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[3]", percentvar}]
```

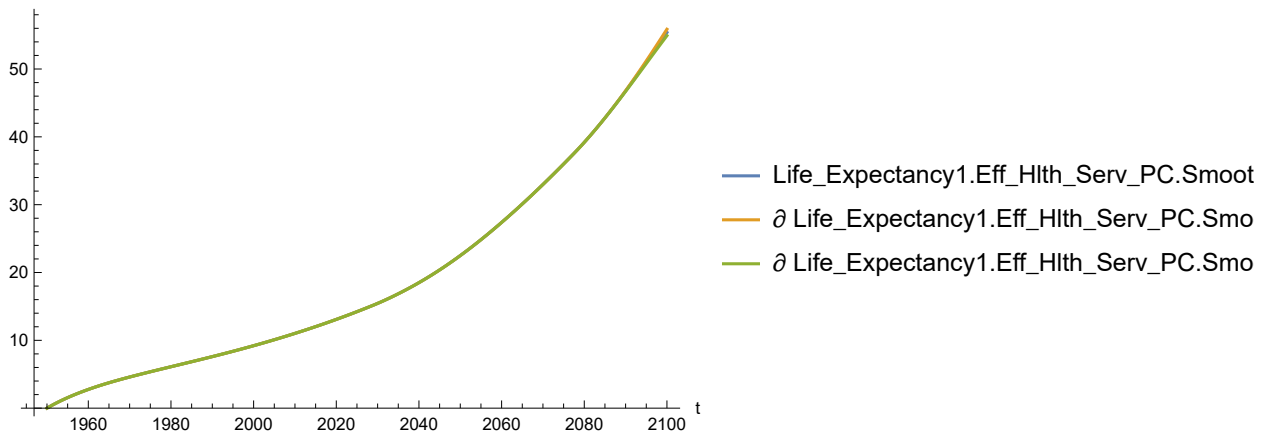
Out[183]=



In[184]:=

```
SystemModelPlot[simsensdata,
  {"Life_Expectancy1.Eff_Hlth_Serv_PC.Smooth_of_Input.Integrator1.y",
   "Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[4]", percentvar}]
```

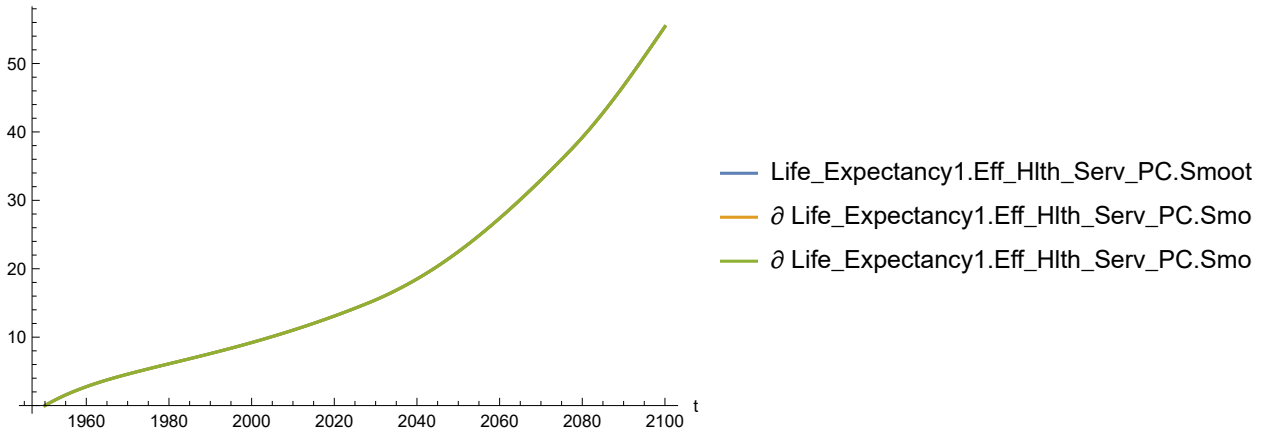
Out[184]=



In[185]:=

```
SystemModelPlot[simsensdata,
  {"Life_Expectancy1.Eff_Hlth_Serv_PC.Smooth_of_Input.Integrator1.y",
   "Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[5]", percentvar}]
```

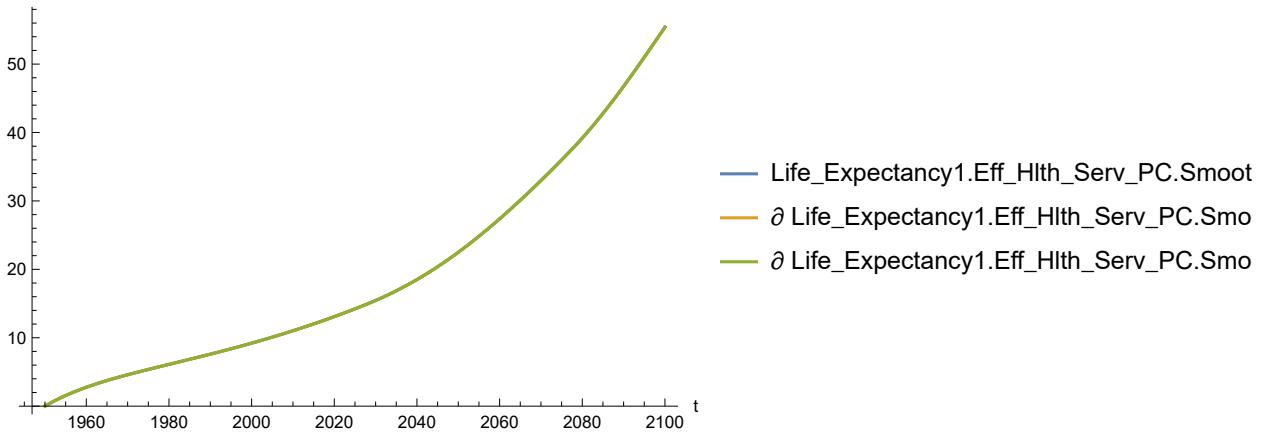
Out[185]=



In[186]:=

```
SystemModelPlot[simsensdata,
  {"Life_Expectancy1.Eff_Hlth_Serv_PC.Smooth_of_Input.Integrator1.y",
   "Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[6]", percentvar}]
```

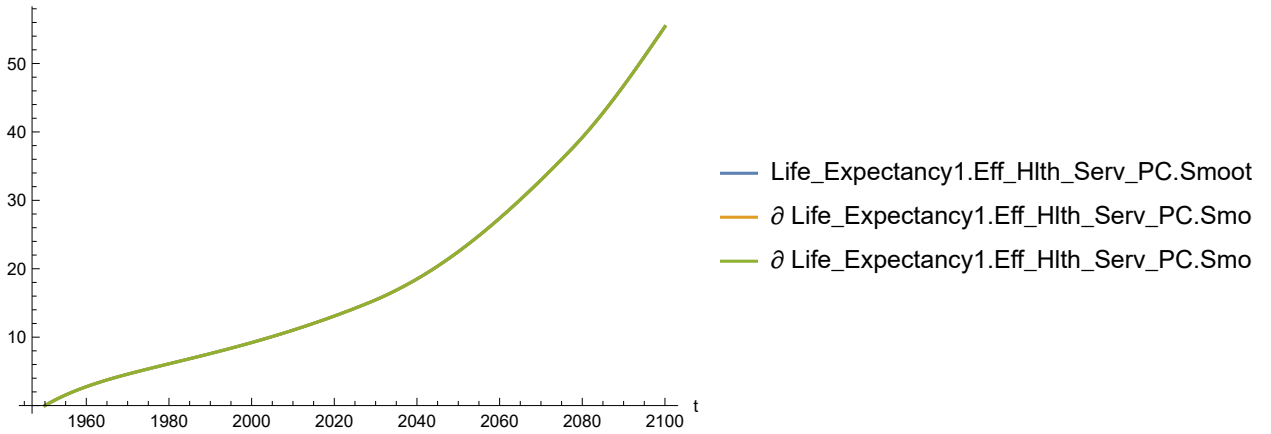
Out[186]=



In[187]:=

```
SystemModelPlot[simsensdata,
  {"Life_Expectancy1.Eff_Hlth_Serv_PC.Smooth_of_Input.Integrator1.y",
   "Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[7]", percentvar}]
```

Out[187]=

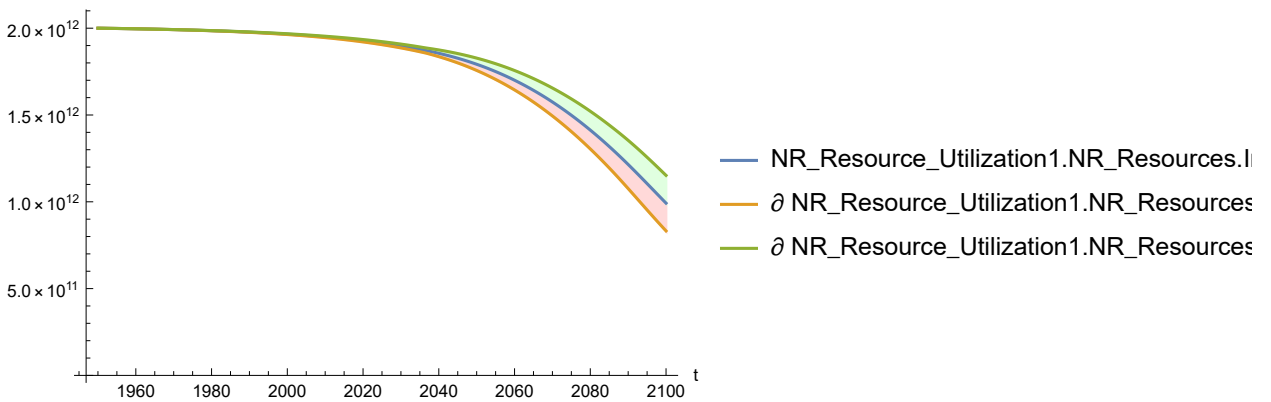


Plot the sensitivity of `NR_Resource_Utilization1.NR_Resources.Integrator1.y` to `Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals`.

In[188]:=

```
SystemModelPlot[simsensdata, {"NR_Resource_Utilization1.NR_Resources.Integrator1.y",
  "Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[1]", percentvar}]
```

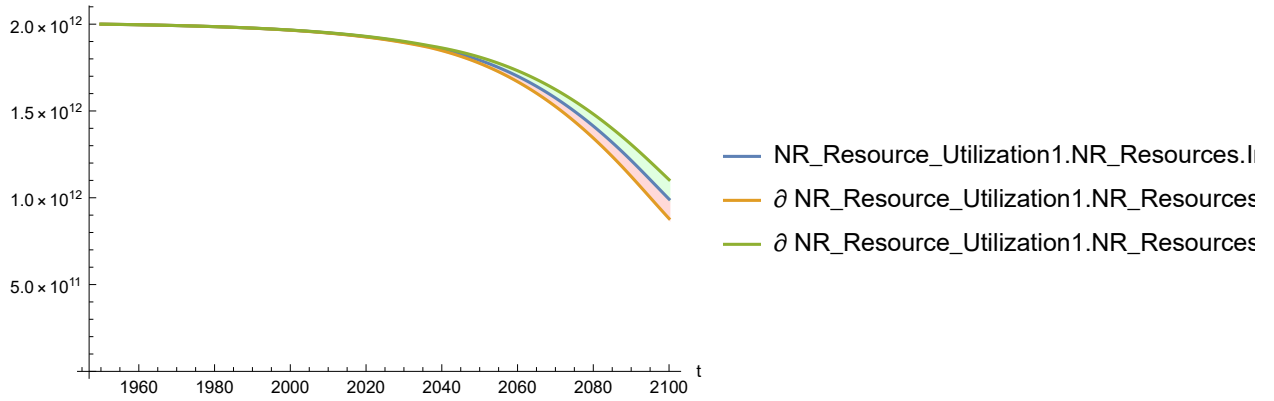
Out[188]=



In[189]:=

```
SystemModelPlot[simsensdata, {"NR_Resource_Utilization1.NR_Resources.Integrator1.y",
"Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[2]", percentvar}]
```

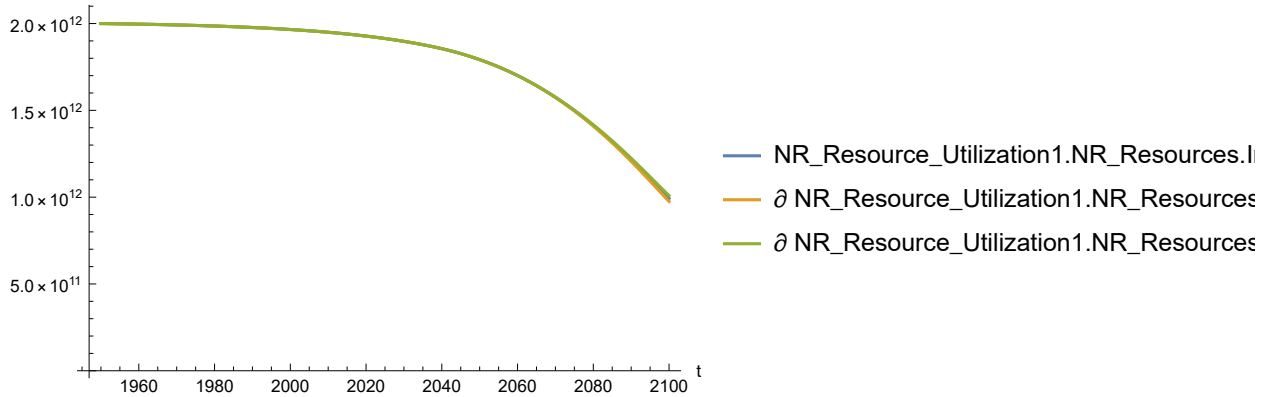
Out[189]=



In[190]:=

```
SystemModelPlot[simsensdata, {"NR_Resource_Utilization1.NR_Resources.Integrator1.y",
"Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[3]", percentvar}]
```

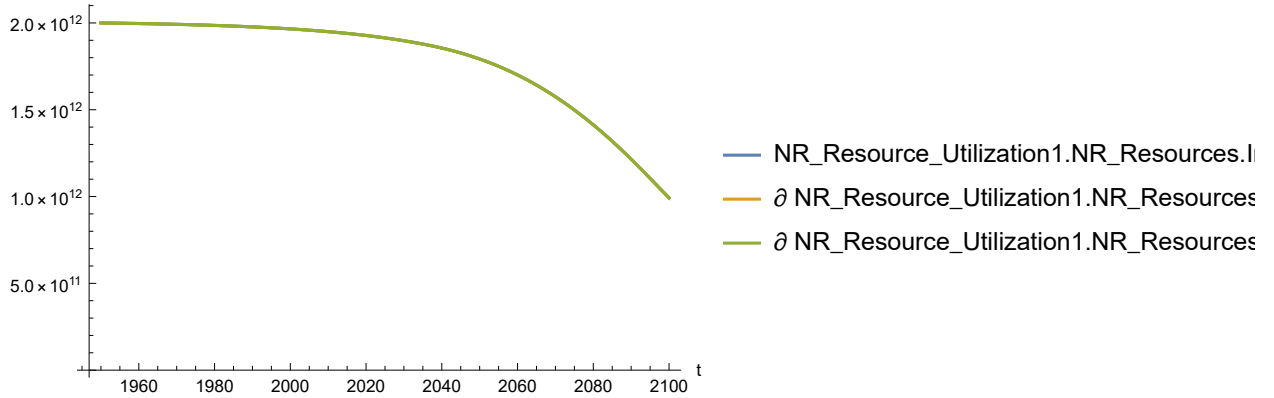
Out[190]=



In[191]:=

```
SystemModelPlot[simsensdata, {"NR_Resource_Utilization1.NR_Resources.Integrator1.y",
"Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[4]", percentvar}]
```

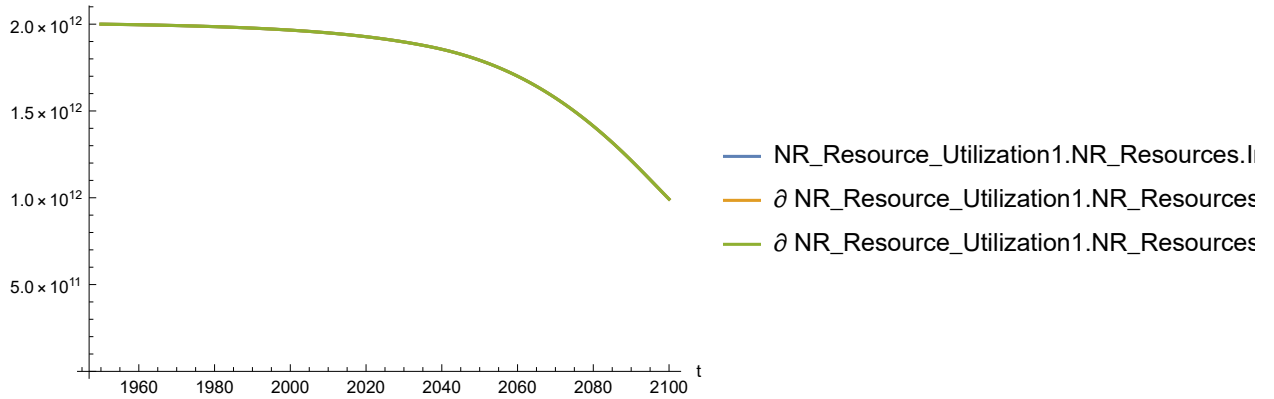
Out[191]=



In[192]:=

```
SystemModelPlot[simsensdata, {"NR_Resource_Utilization1.NR_Resources.Integrator1.y",
"Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[5]", percentvar}]
```

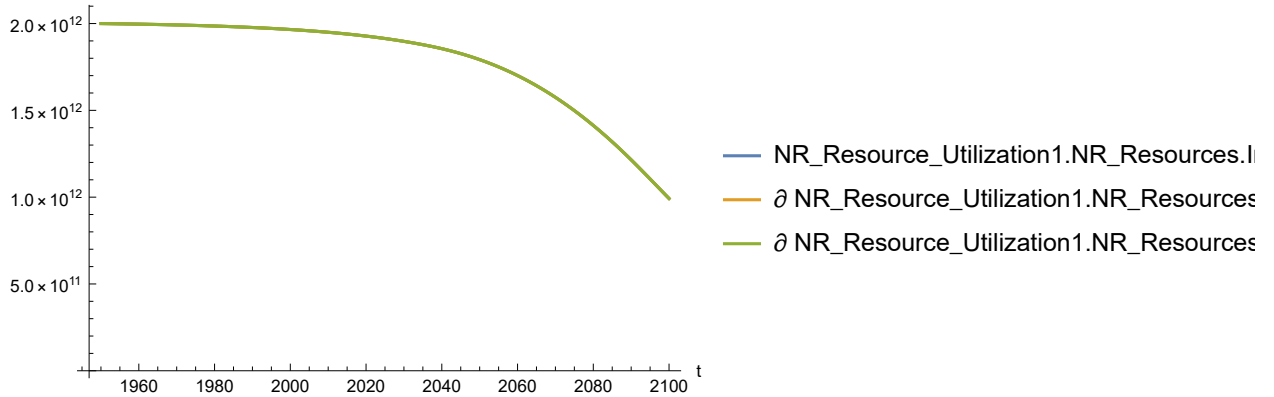
Out[192]=



In[193]:=

```
SystemModelPlot[simsensdata, {"NR_Resource_Utilization1.NR_Resources.Integrator1.y",
"Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[6]", percentvar}]
```

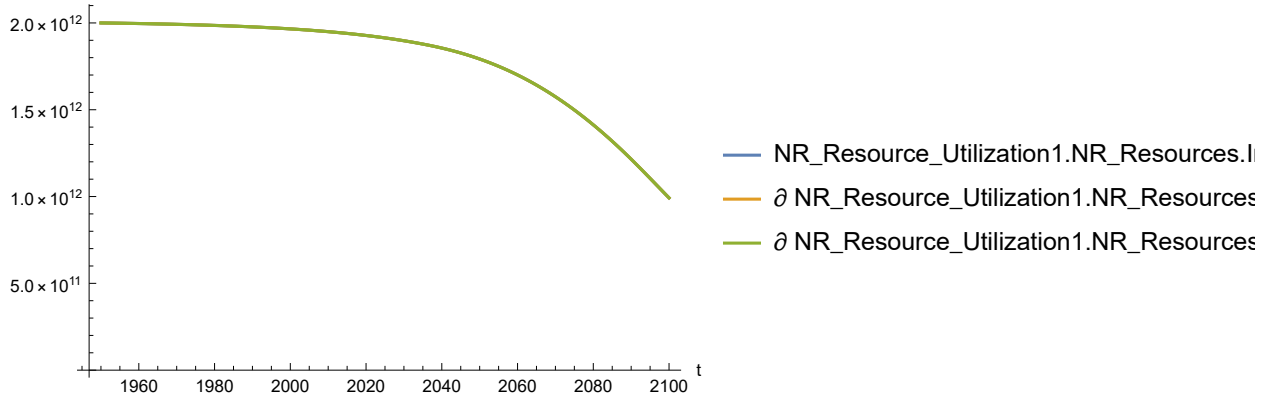
Out[193]=



In[194]:=

```
SystemModelPlot[simsensdata, {"NR_Resource_Utilization1.NR_Resources.Integrator1.y",
"Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[7]", percentvar}]
```

Out[194]=

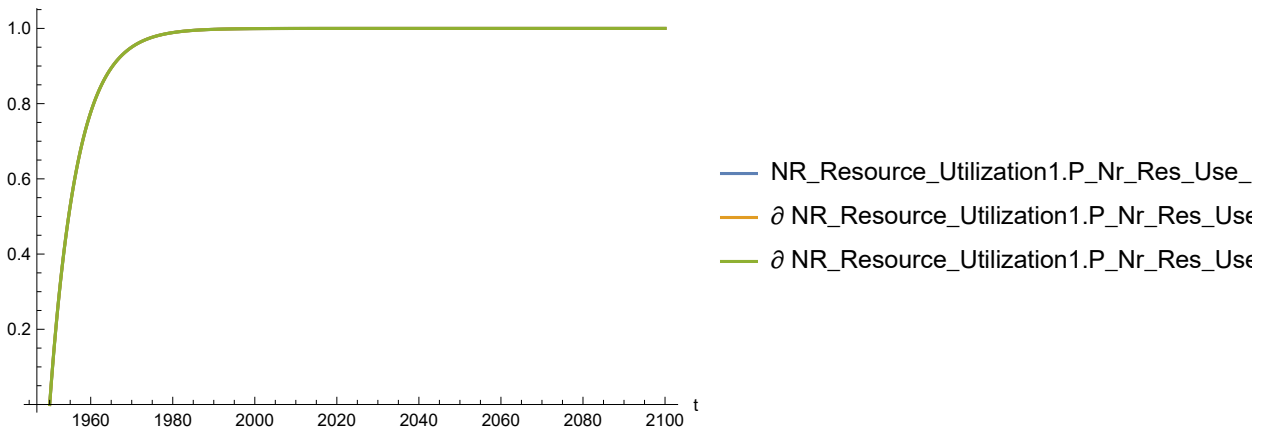


Plot the sensitivity of NR_Resource_Utilization1.P_Nr_Res_Use_Fact_2.Smooth1.Integrator1.y to Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals.

In[195]:=

```
SystemModelPlot[simsensdata,
  {"NR_Resource_Utilization1.P_Nr_Res_Use_Fact_2.Smooth1.Integrator1.y",
   "Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[1]", percentvar}]
```

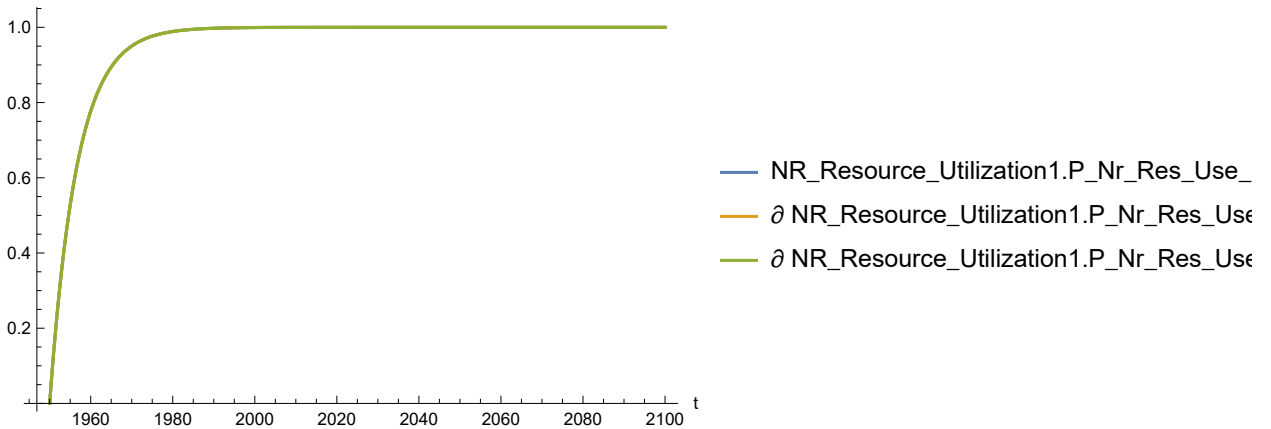
Out[195]=



In[196]:=

```
SystemModelPlot[simsensdata,
  {"NR_Resource_Utilization1.P_Nr_Res_Use_Fact_2.Smooth1.Integrator1.y",
   "Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[2]", percentvar}]
```

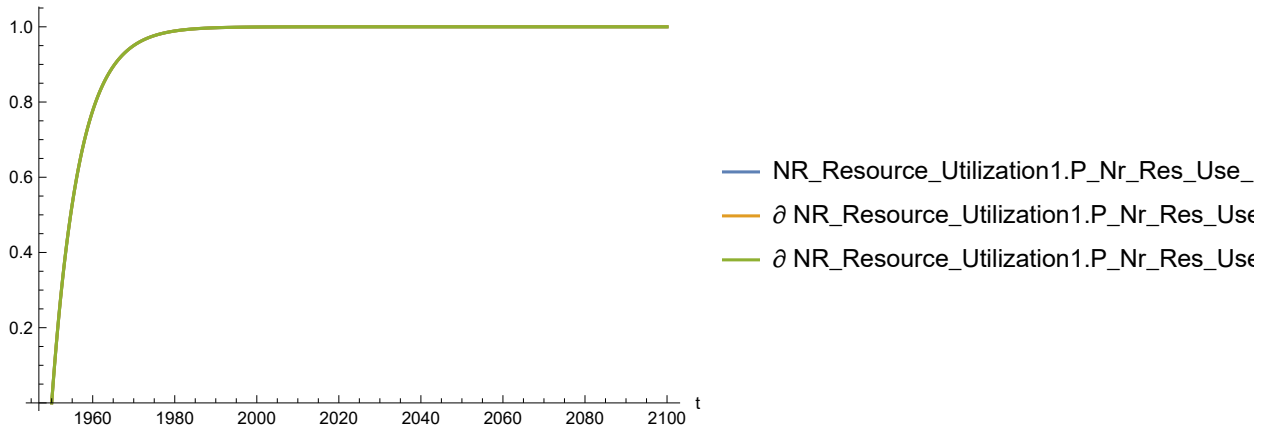
Out[196]=



In[197]:=

```
SystemModelPlot[simsensdata,
  {"NR_Resource_Utilization1.P_Nr_Res_Use_Fact_2.Smooth1.Integrator1.y",
   "Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[3]", percentvar}]
```

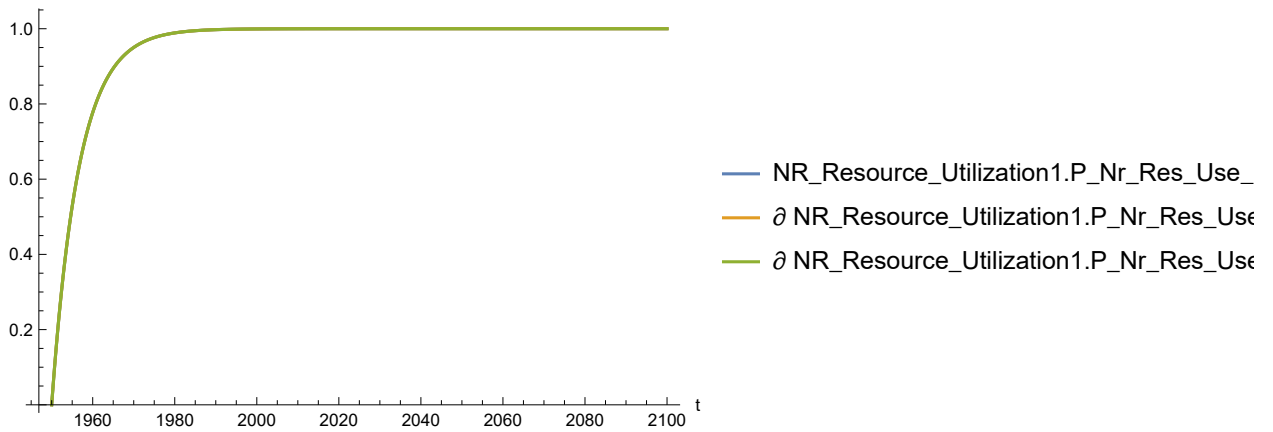
Out[197]=



In[198]:=

```
SystemModelPlot[simsensdata,
  {"NR_Resource_Utilization1.P_Nr_Res_Use_Fact_2.Smooth1.Integrator1.y",
   "Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[4]", percentvar}]
```

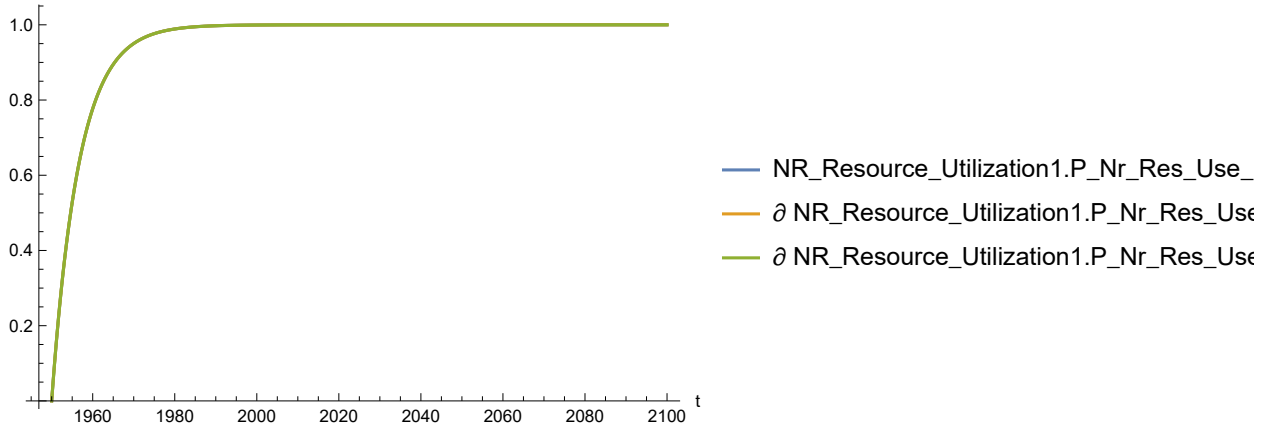
Out[198]=



In[199]:=

```
SystemModelPlot[simsensdata,
  {"NR_Resource_Utilization1.P_Nr_Res_Use_Fact_2.Smooth1.Integrator1.y",
   "Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[5]", percentvar}]
```

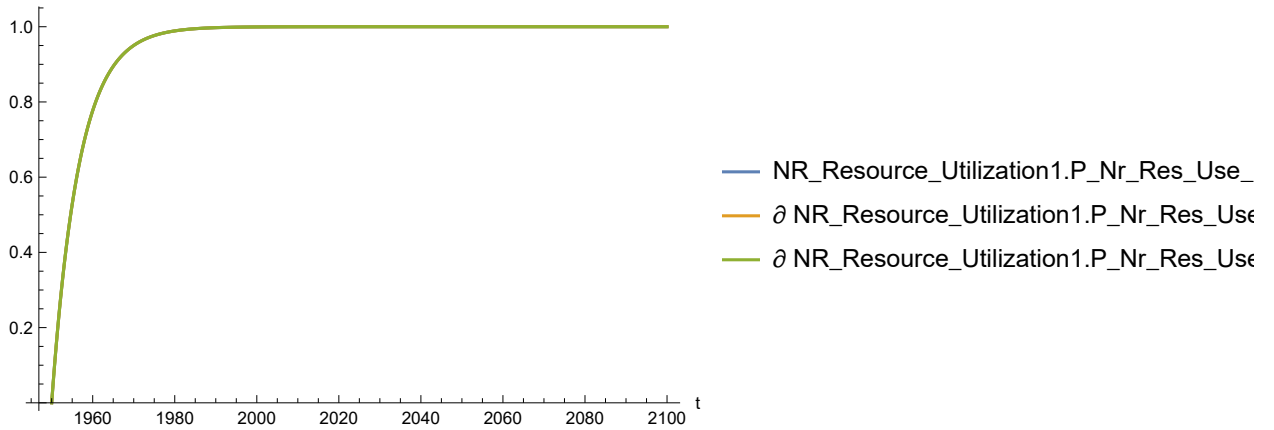
Out[199]=



In[200]:=

```
SystemModelPlot[simsensdata,
  {"NR_Resource_Utilization1.P_Nr_Res_Use_Fact_2.Smooth1.Integrator1.y",
   "Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[6]", percentvar}]
```

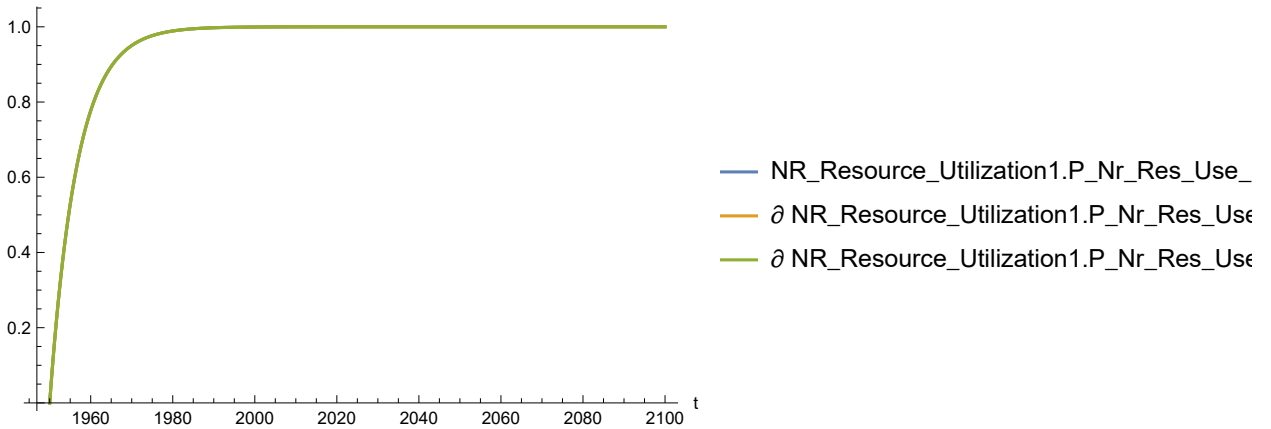
Out[200]=



In[201]:=

```
SystemModelPlot[simsensdata,
  {"NR_Resource_Utilization1.P_Nr_Res_Use_Fact_2.Smooth1.Integrator1.y",
   "Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[7]", percentvar}]
```

Out[201]=

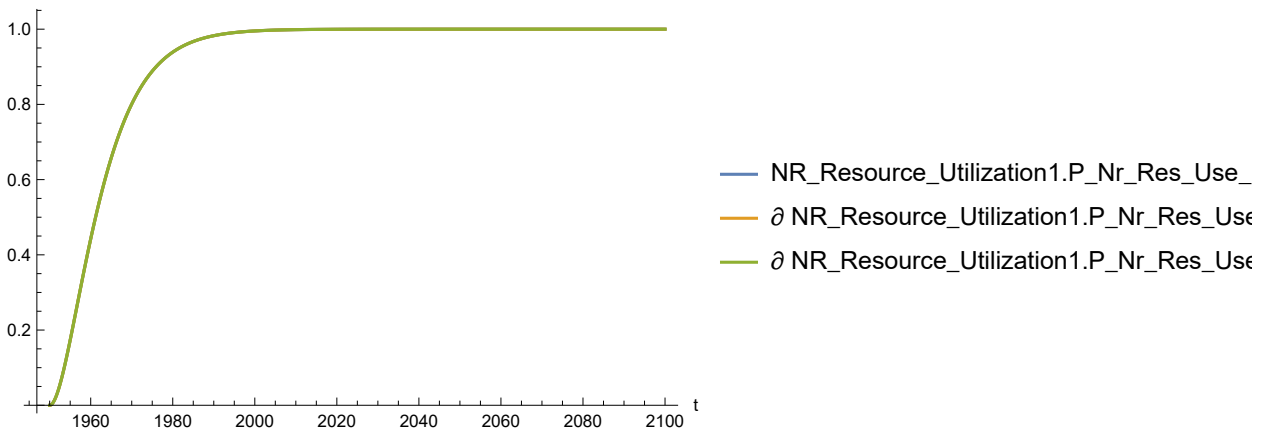


Plot the sensitivity of NR_Resource_Utilization1.P_Nr_Res_Use_Fact_2.Smooth2.Integrator1.y to Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals.

In[202]:=

```
SystemModelPlot[simsensdata,
  {"NR_Resource_Utilization1.P_Nr_Res_Use_Fact_2.Smooth2.Integrator1.y",
   "Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[1]", percentvar}]
```

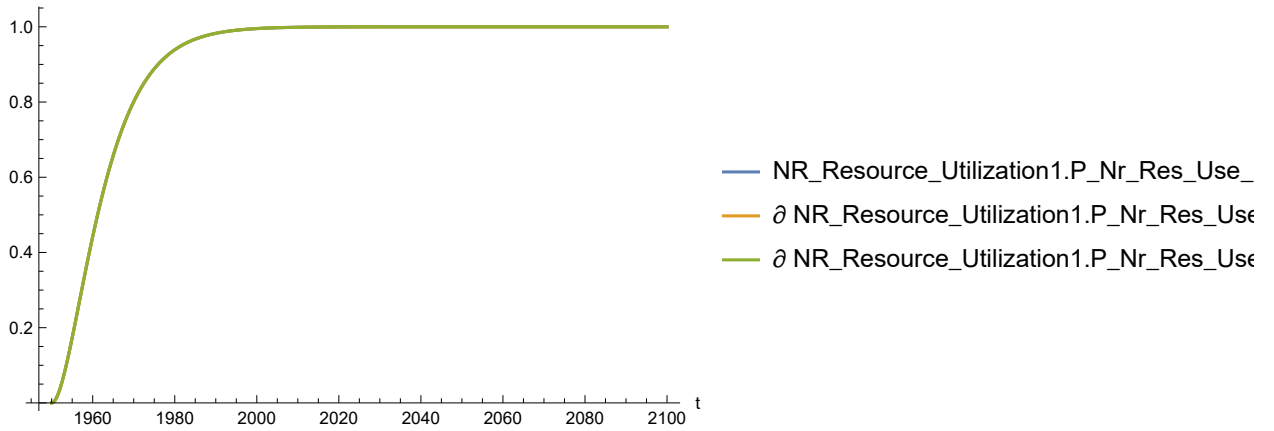
Out[202]=



In[203]:=

```
SystemModelPlot[simsensdata,
  {"NR_Resource_Utilization1.P_Nr_Res_Use_Fact_2.Smooth2.Integrator1.y",
   "Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[2]", percentvar}]
```

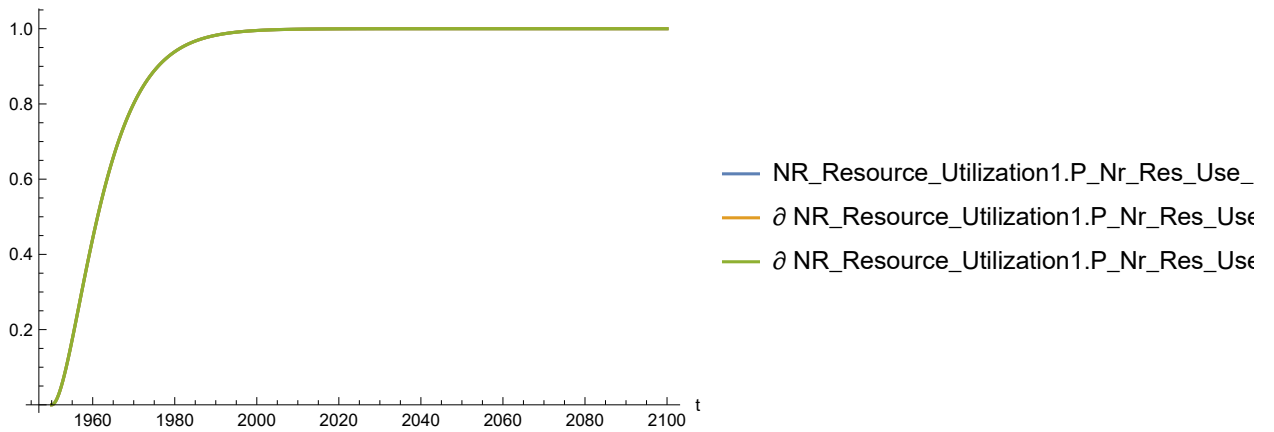
Out[203]=



In[204]:=

```
SystemModelPlot[simsensdata,
  {"NR_Resource_Utilization1.P_Nr_Res_Use_Fact_2.Smooth2.Integrator1.y",
   "Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[3]", percentvar}]
```

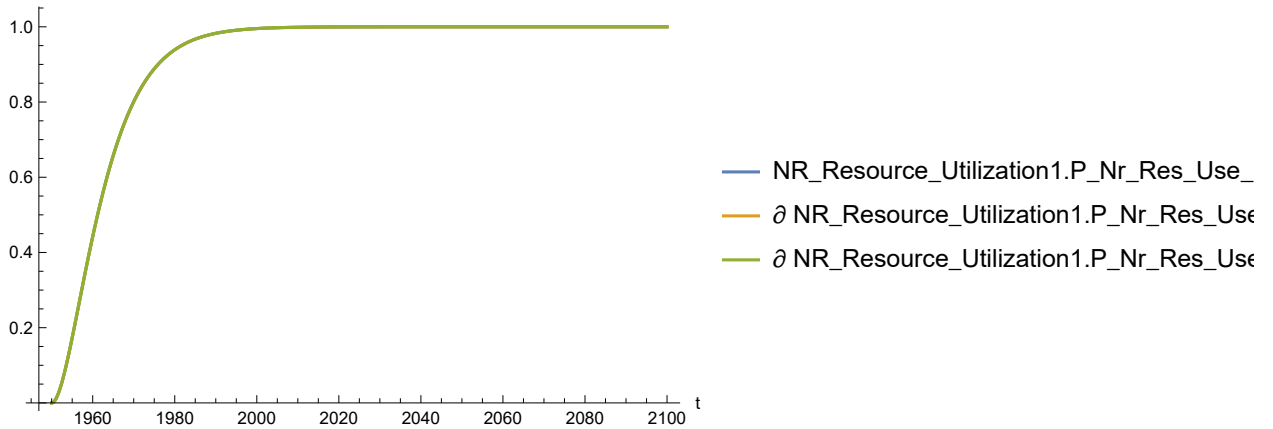
Out[204]=



In[205]:=

```
SystemModelPlot[simsensdata,
  {"NR_Resource_Utilization1.P_Nr_Res_Use_Fact_2.Smooth2.Integrator1.y",
   "Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[4]", percentvar}]
```

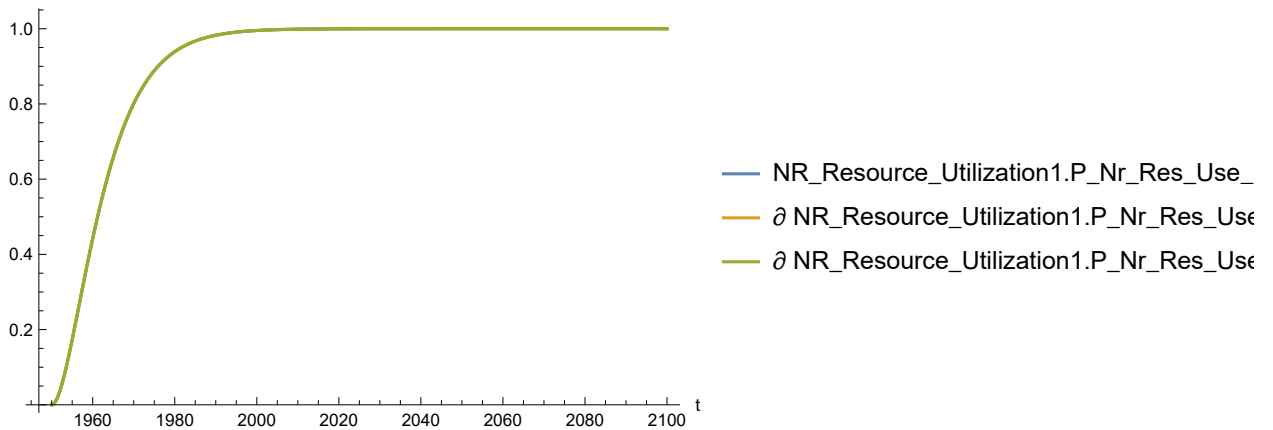
Out[205]=



In[206]:=

```
SystemModelPlot[simsensdata,
  {"NR_Resource_Utilization1.P_Nr_Res_Use_Fact_2.Smooth2.Integrator1.y",
   "Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[5]", percentvar}]
```

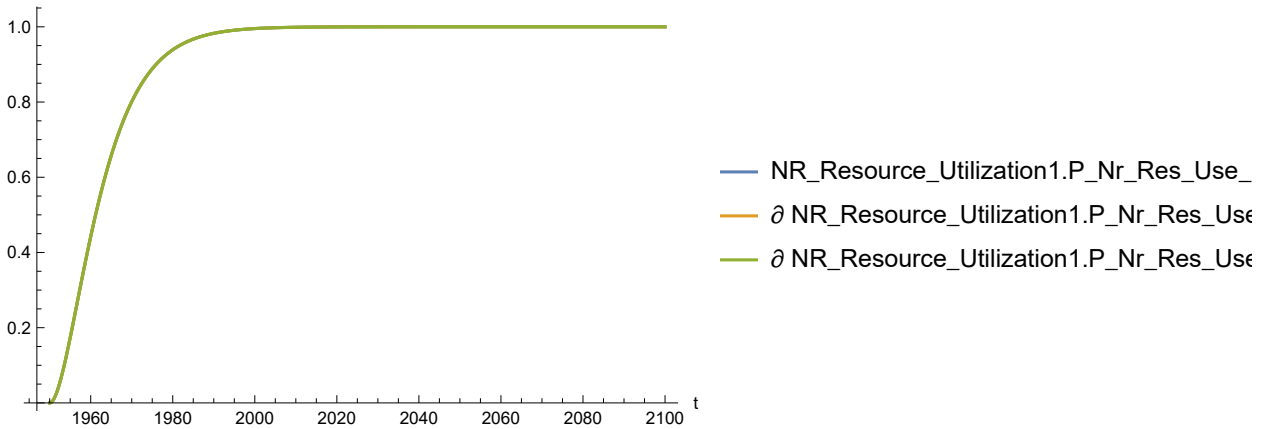
Out[206]=



In[207]:=

```
SystemModelPlot[simsensdata,
  {"NR_Resource_Utilization1.P_Nr_Res_Use_Fact_2.Smooth2.Integrator1.y",
   "Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[6]", percentvar}]
```

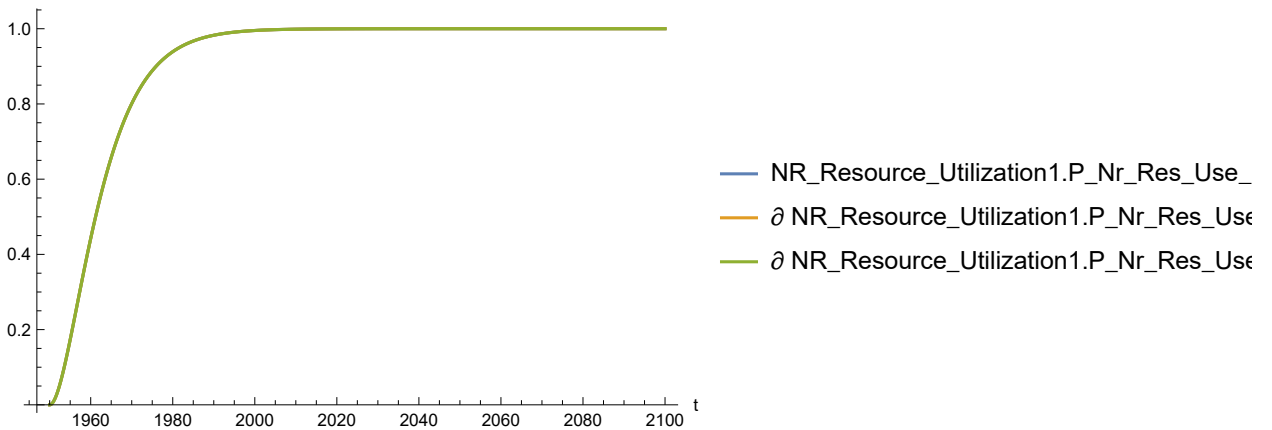
Out[207]=



In[208]:=

```
SystemModelPlot[simsensdata,
  {"NR_Resource_Utilization1.P_Nr_Res_Use_Fact_2.Smooth2.Integrator1.y",
   "Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[7]", percentvar}]
```

Out[208]=

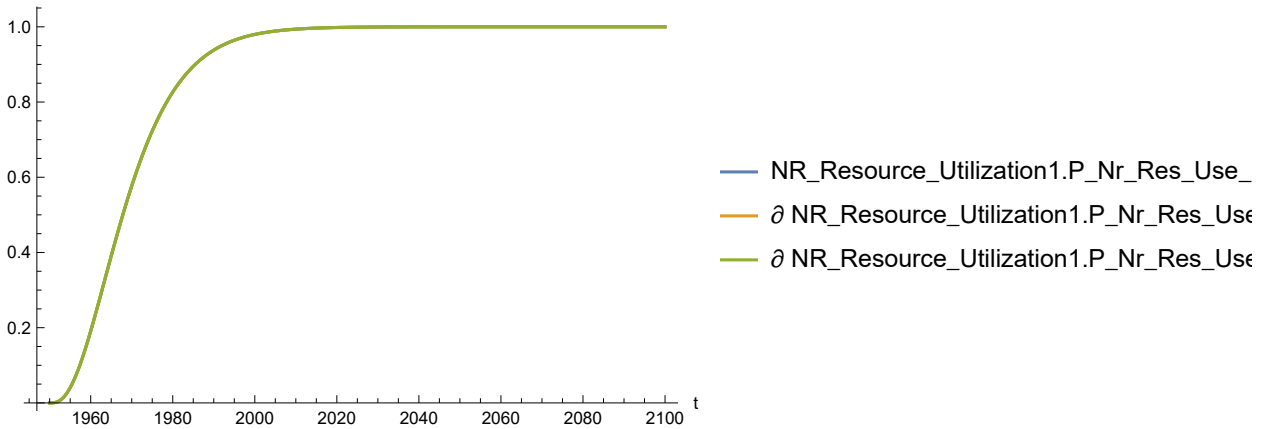


Plot the sensitivity of NR_Resource_Utilization1.P_Nr_Res_Use_Fact_2.Smooth3.Integrator1.y to Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals.

In[209]:=

```
SystemModelPlot[simsensdata,
  {"NR_Resource_Utilization1.P_Nr_Res_Use_Fact_2.Smooth3.Integrator1.y",
   "Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[1]", percentvar}]
```

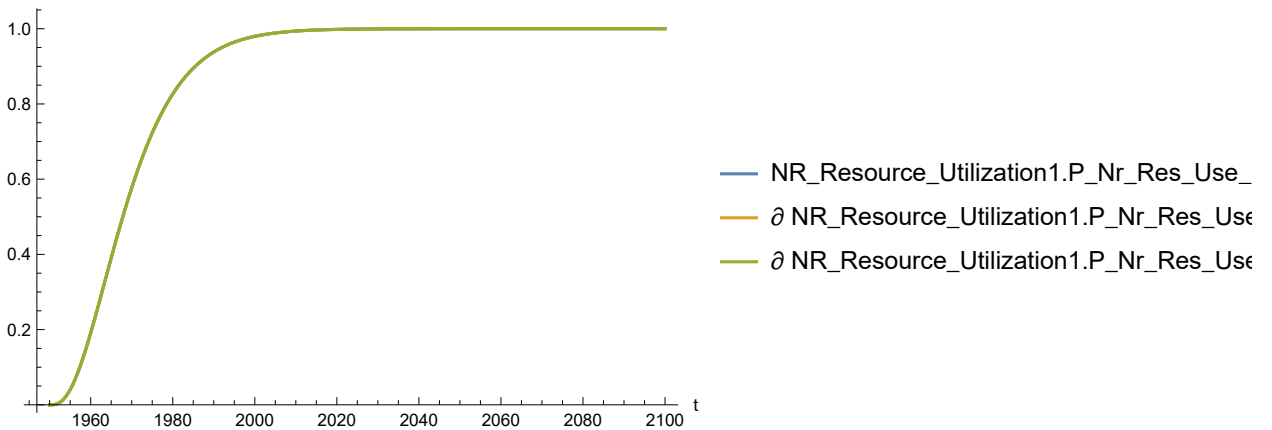
Out[209]=



In[210]:=

```
SystemModelPlot[simsensdata,
  {"NR_Resource_Utilization1.P_Nr_Res_Use_Fact_2.Smooth3.Integrator1.y",
   "Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[2]", percentvar}]
```

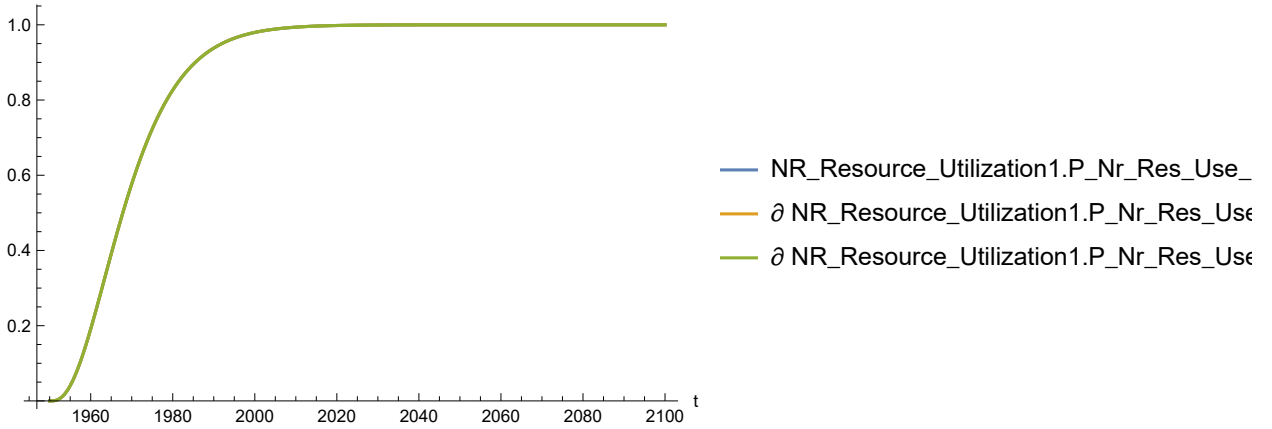
Out[210]=



In[211]:=

```
SystemModelPlot[simsensdata,
  {"NR_Resource_Utilization1.P_Nr_Res_Use_Fact_2.Smooth3.Integrator1.y",
   "Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[3]", percentvar}]
```

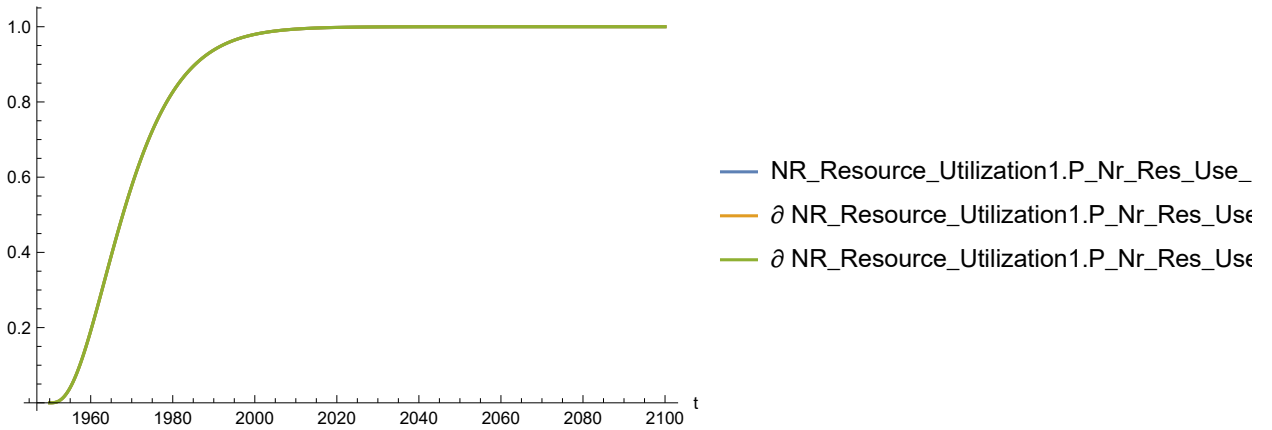
Out[211]=



In[212]:=

```
SystemModelPlot[simsensdata,
  {"NR_Resource_Utilization1.P_Nr_Res_Use_Fact_2.Smooth3.Integrator1.y",
   "Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[4]", percentvar}]
```

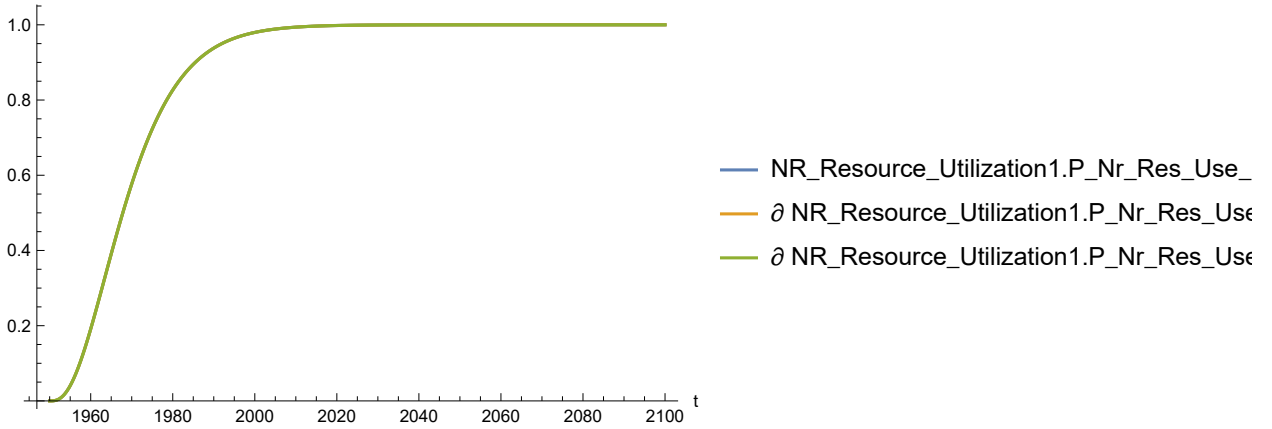
Out[212]=



In[213]:=

```
SystemModelPlot[simsensdata,
  {"NR_Resource_Utilization1.P_Nr_Res_Use_Fact_2.Smooth3.Integrator1.y",
   "Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[5]", percentvar}]
```

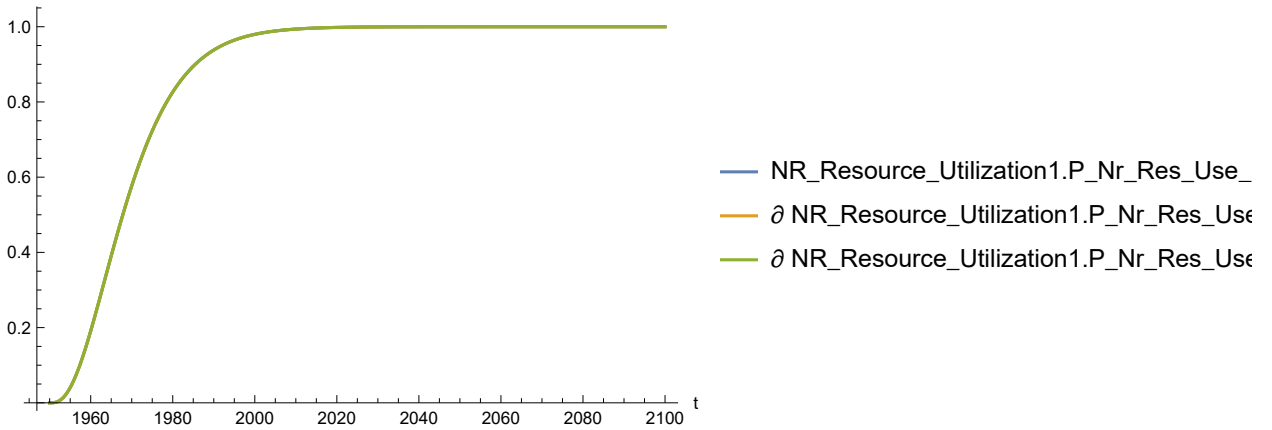
Out[213]:=



In[214]:=

```
SystemModelPlot[simsensdata,
  {"NR_Resource_Utilization1.P_Nr_Res_Use_Fact_2.Smooth3.Integrator1.y",
   "Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[6]", percentvar}]
```

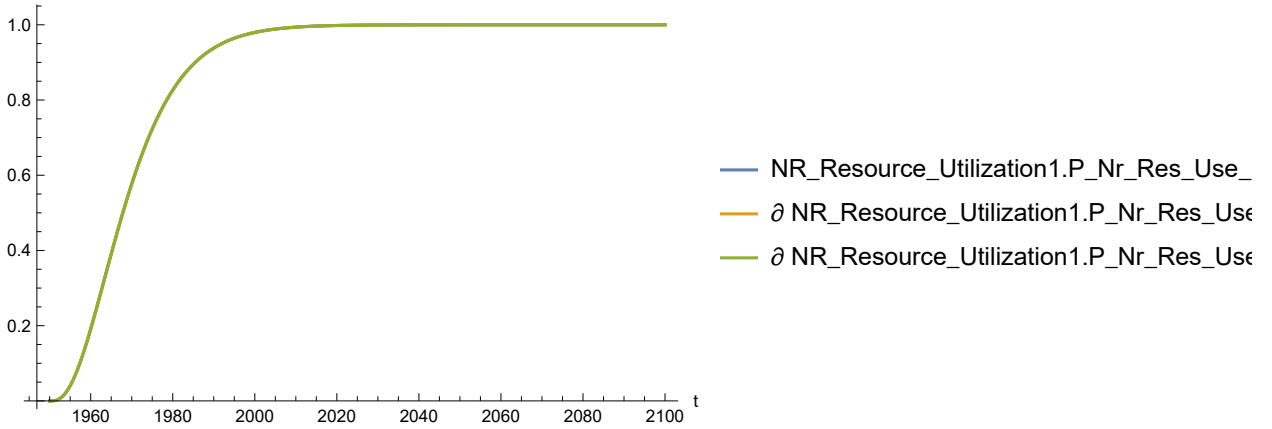
Out[214]:=



In[215]:=

```
SystemModelPlot[simsensdata,
  {"NR_Resource_Utilization1.P_Nr_Res_Use_Fact_2.Smooth3.Integrator1.y",
   "Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[7]", percentvar}]
```

Out[215]=

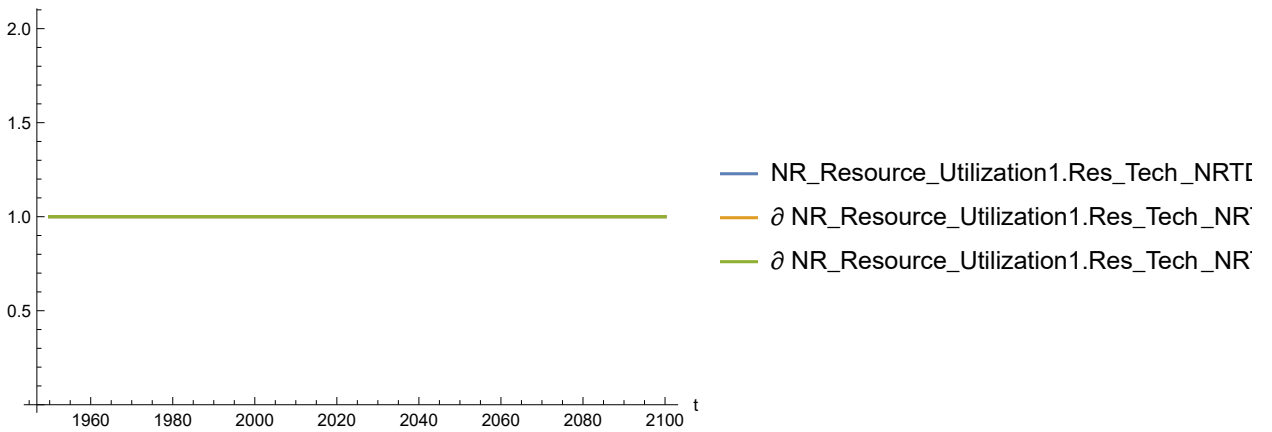


Plot the sensitivity of `NR_Resource_Utilization1.Res_Tech_NRTD.Integrator1.y` to `Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals`.

In[216]:=

```
SystemModelPlot[simsensdata, {"NR_Resource_Utilization1.Res_Tech_NRTD.Integrator1.y",
  "Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[1]", percentvar}]
```

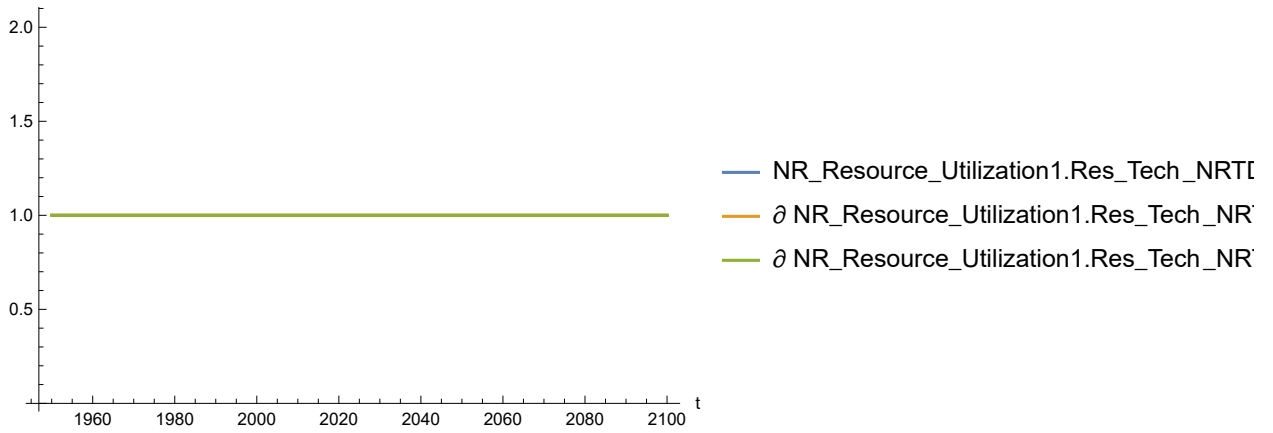
Out[216]=



In[217]:=

```
SystemModelPlot[simsensdata, {"NR_Resource_Utilization1.Res_Tech_NRTD.Integrator1.y",
"Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[2]", percentvar}]
```

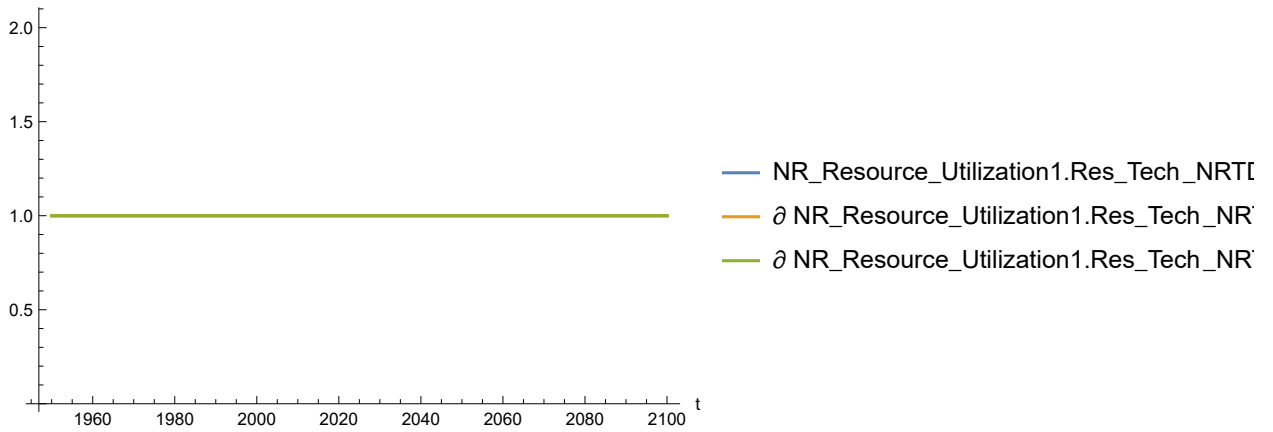
Out[217]=



In[218]:=

```
SystemModelPlot[simsensdata, {"NR_Resource_Utilization1.Res_Tech_NRTD.Integrator1.y",
"Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[3]", percentvar}]
```

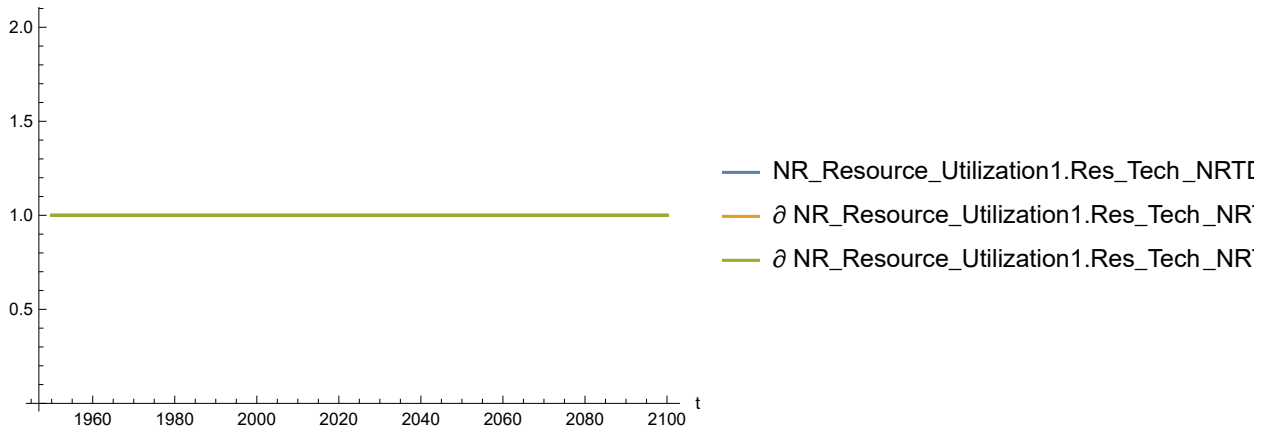
Out[218]=



In[219]:=

```
SystemModelPlot[simsensdata, {"NR_Resource_Utilization1.Res_Tech_NRTD.Integrator1.y",
"Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[4]", percentvar}]
```

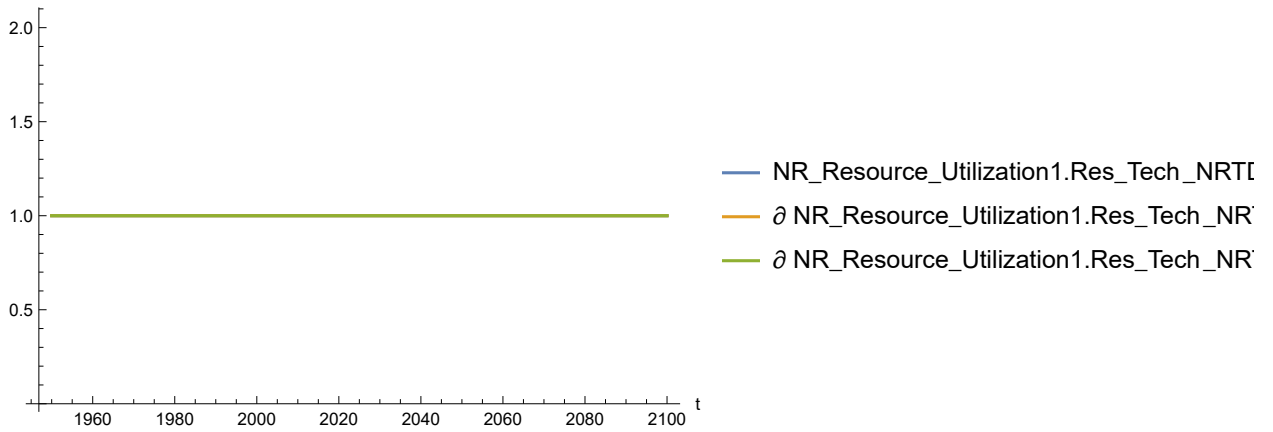
Out[219]=



In[220]:=

```
SystemModelPlot[simsensdata, {"NR_Resource_Utilization1.Res_Tech_NRTD.Integrator1.y",
"Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[5]", percentvar}]
```

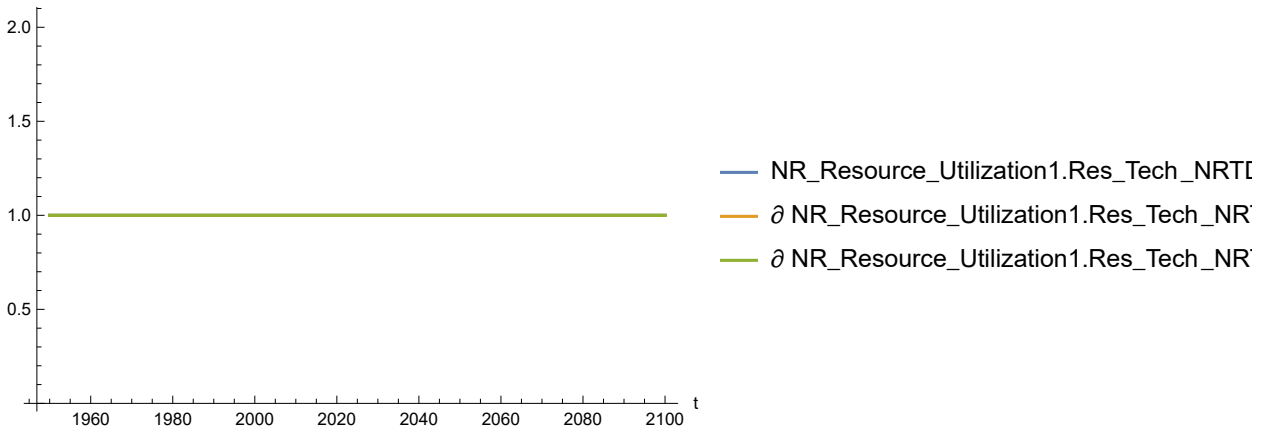
Out[220]=



In[221]:=

```
SystemModelPlot[simsensdata, {"NR_Resource_Utilization1.Res_Tech_NRTD.Integrator1.y",
"Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[6]", percentvar}]}
```

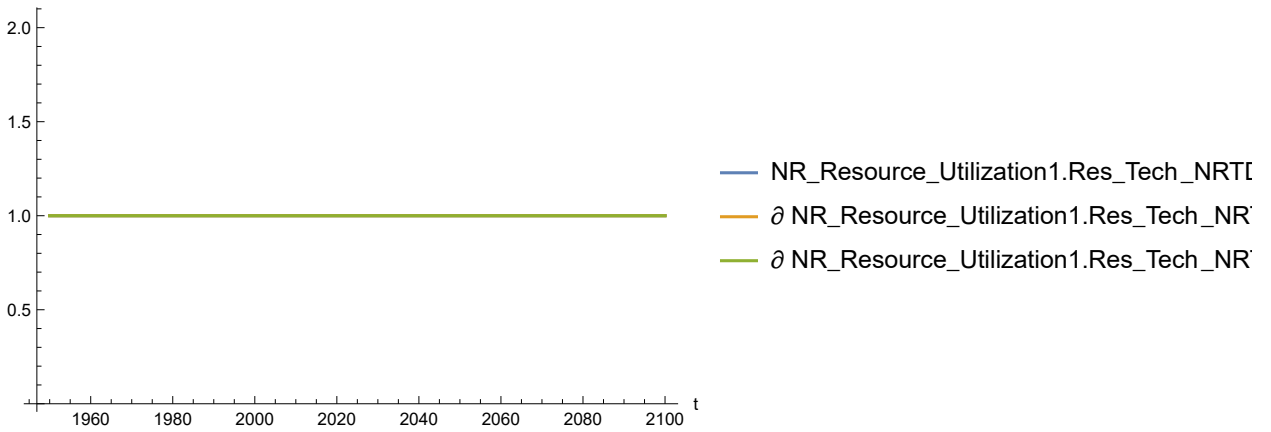
Out[221]=



In[222]:=

```
SystemModelPlot[simsensdata, {"NR_Resource_Utilization1.Res_Tech_NRTD.Integrator1.y",
"Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[7]", percentvar}]}
```

Out[222]=

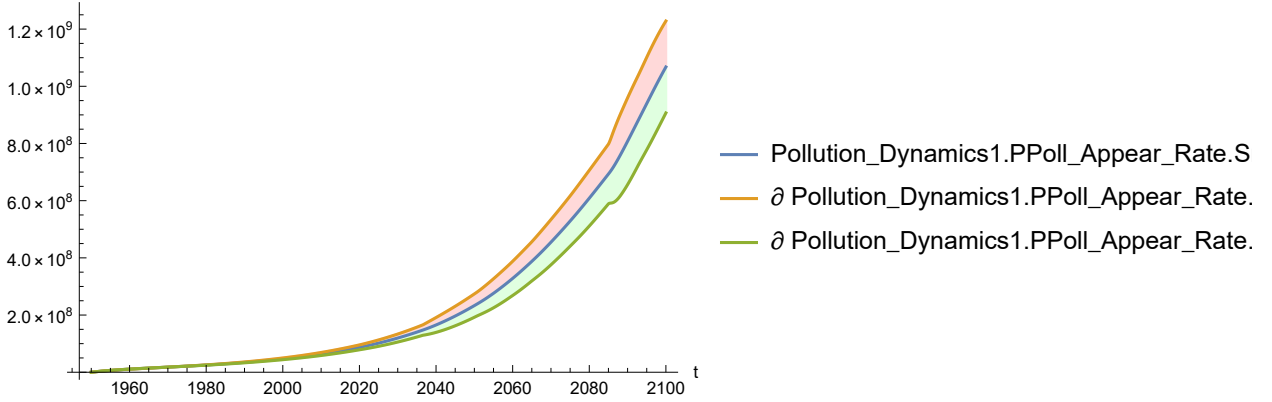


Plot the sensitivity of Pollution_Dynamics1.PPoll_Appear_Rate.Smooth1.Integrator1.y to Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals.

In[223]:=

```
SystemModelPlot[simsensdata,
  {"Pollution_Dynamics1.PPoll_Appear_Rate.Smooth1.Integrator1.y",
   "Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[1]", percentvar}]
```

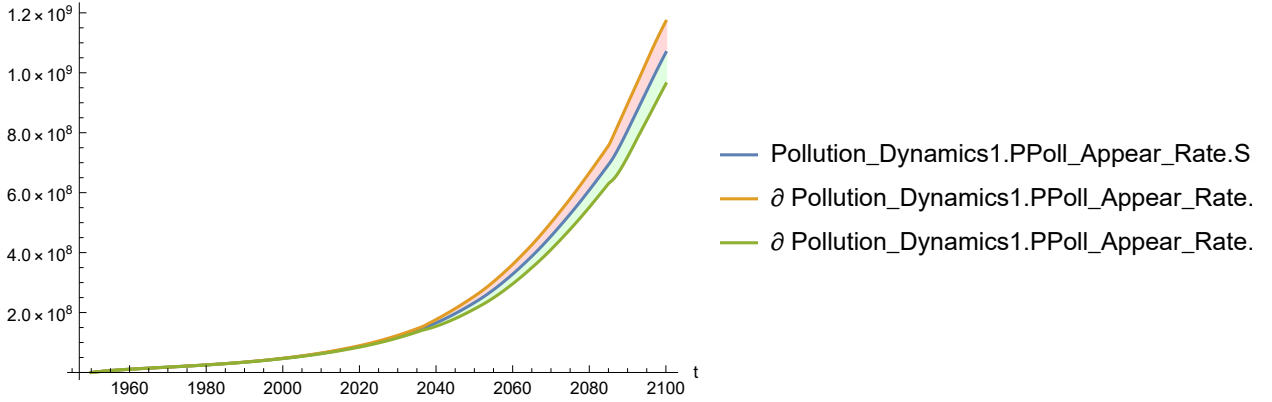
Out[223]=



In[224]:=

```
SystemModelPlot[simsensdata,
  {"Pollution_Dynamics1.PPoll_Appear_Rate.Smooth1.Integrator1.y",
   "Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[2]", percentvar}]
```

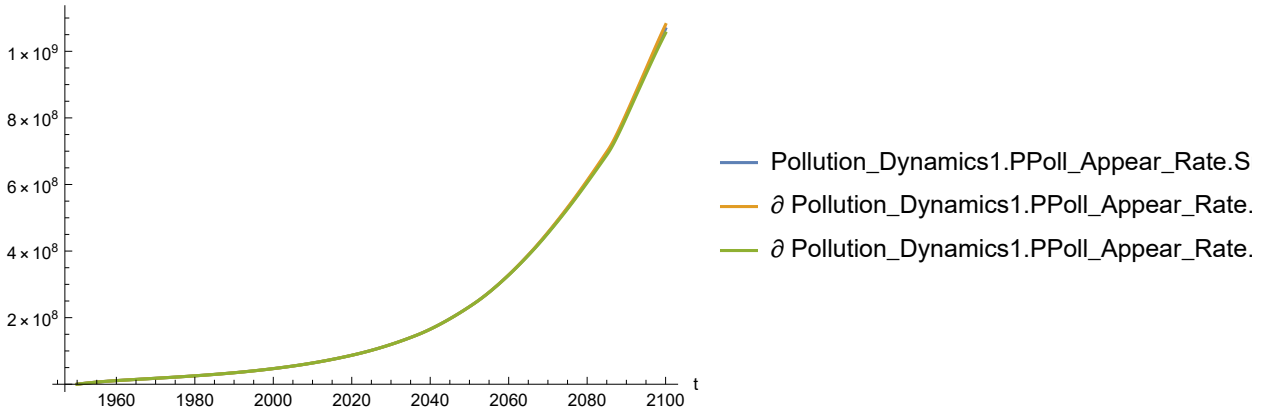
Out[224]=



In[225]:=

```
SystemModelPlot[simsensdata,
  {"Pollution_Dynamics1.PPoll_Appear_Rate.Smooth1.Integrator1.y",
   "Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[3]", percentvar}]
```

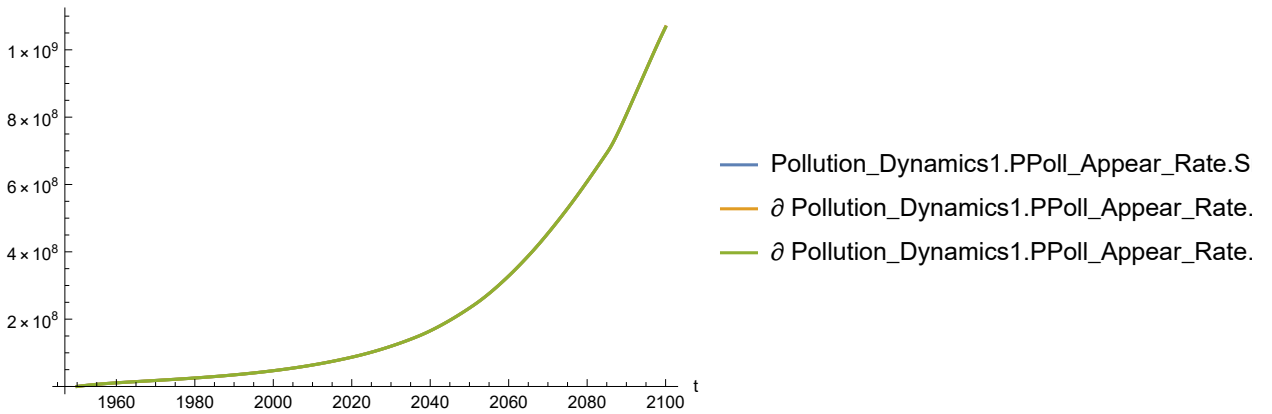
Out[225]=



In[226]:=

```
SystemModelPlot[simsensdata,
  {"Pollution_Dynamics1.PPoll_Appear_Rate.Smooth1.Integrator1.y",
   "Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[4]", percentvar}]
```

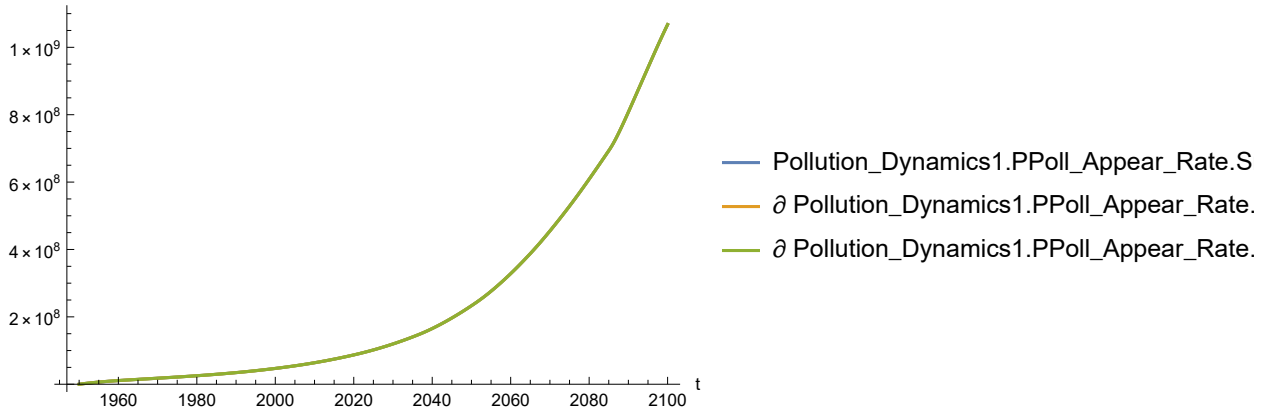
Out[226]=



In[227]:=

```
SystemModelPlot[simsensdata,
  {"Pollution_Dynamics1.PPoll_Appear_Rate.Smooth1.Integrator1.y",
   "Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[5]", percentvar}]
```

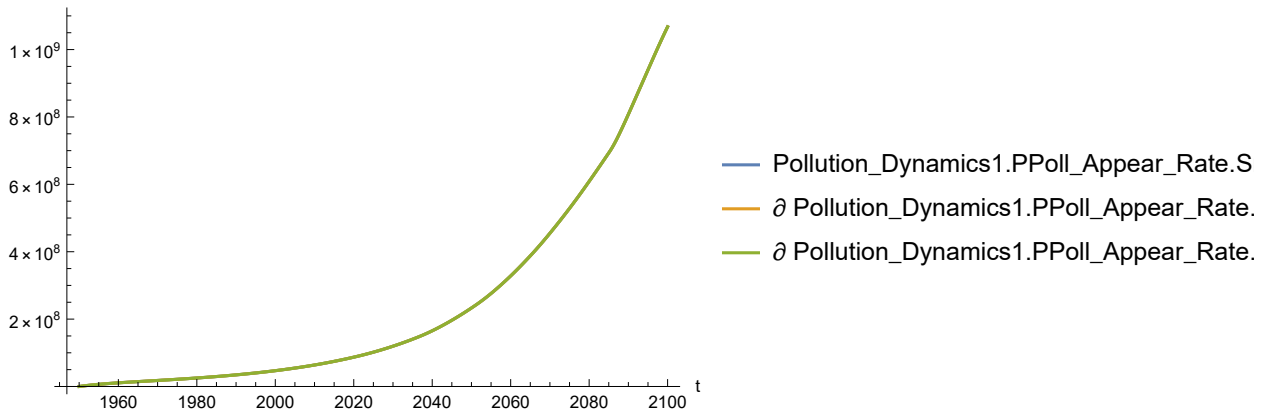
Out[227]=



In[228]:=

```
SystemModelPlot[simsensdata,
  {"Pollution_Dynamics1.PPoll_Appear_Rate.Smooth1.Integrator1.y",
   "Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[6]", percentvar}]
```

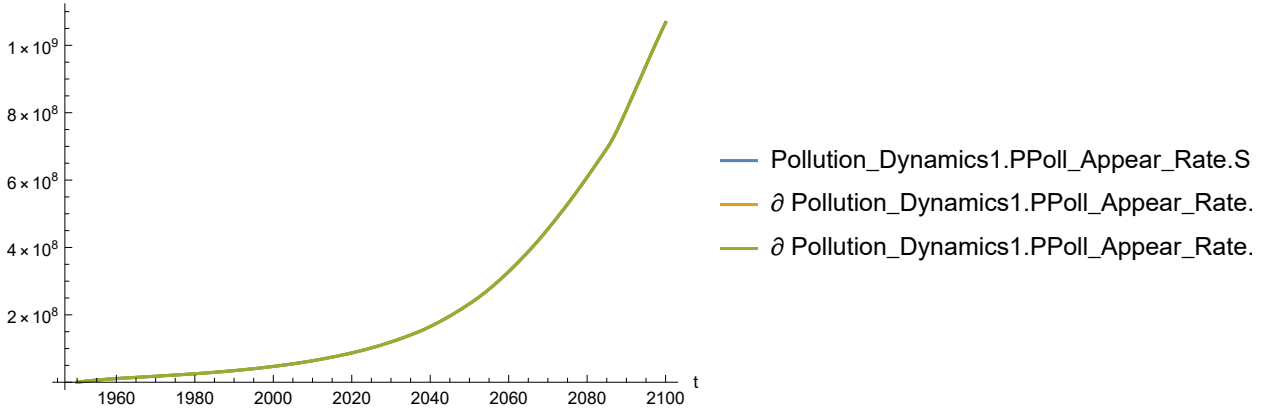
Out[228]=



In[229]:=

```
SystemModelPlot[simsensdata,
  {"Pollution_Dynamics1.PPoll_Appear_Rate.Smooth1.Integrator1.y",
   "Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[7]", percentvar}]
```

Out[229]=

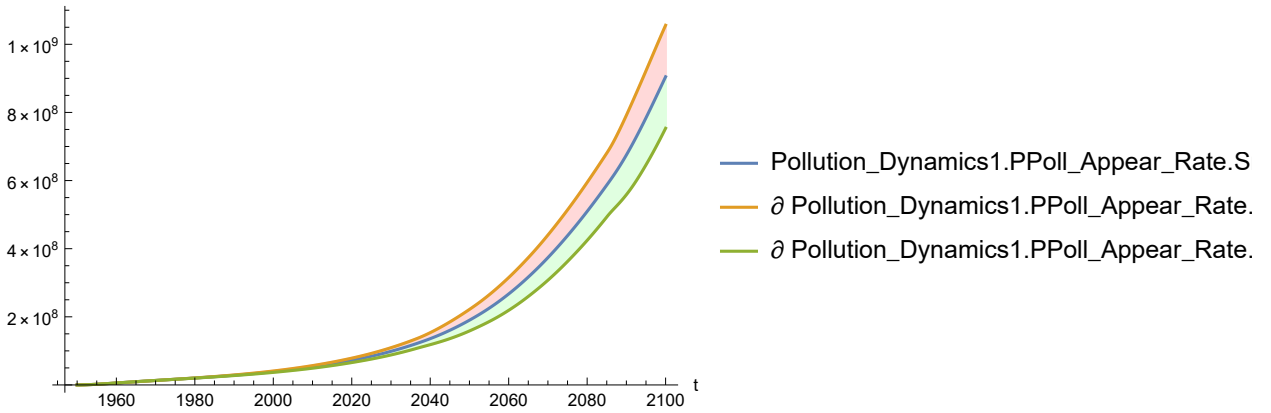


Plot the sensitivity of Pollution_Dynamics1.PPoll_Appear_Rate.Smooth2.Integrator1.y to Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals.

In[230]:=

```
SystemModelPlot[simsensdata,
  {"Pollution_Dynamics1.PPoll_Appear_Rate.Smooth2.Integrator1.y",
   "Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[1]", percentvar}]
```

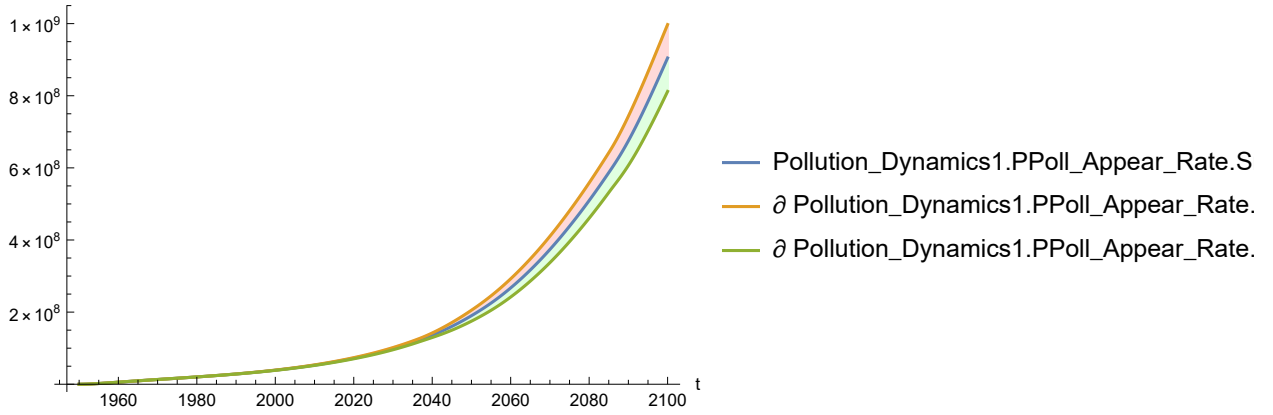
Out[230]=



In[231]:=

```
SystemModelPlot[simsensdata,
  {"Pollution_Dynamics1.PPoll_Appear_Rate.Smooth2.Integrator1.y",
   "Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[2]", percentvar}]
```

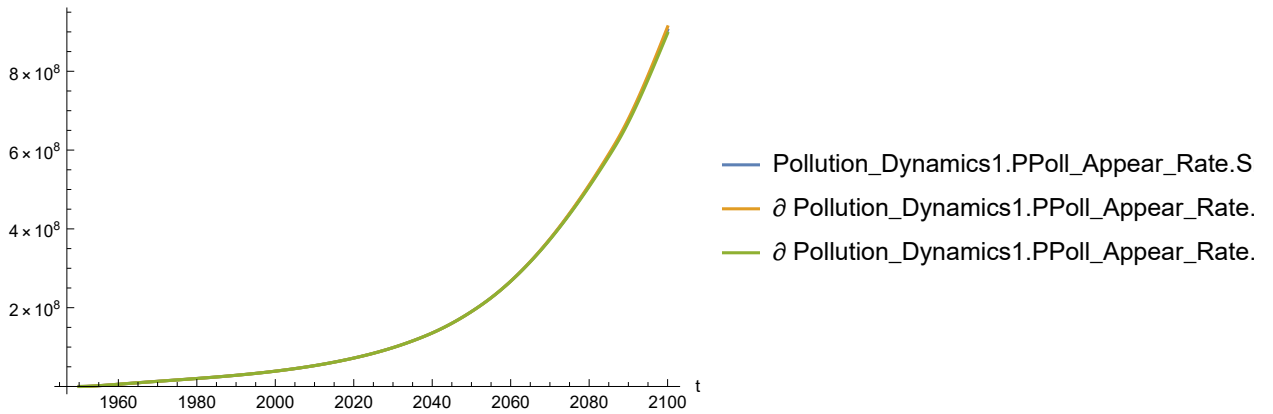
Out[231]=



In[232]:=

```
SystemModelPlot[simsensdata,
  {"Pollution_Dynamics1.PPoll_Appear_Rate.Smooth2.Integrator1.y",
   "Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[3]", percentvar}]
```

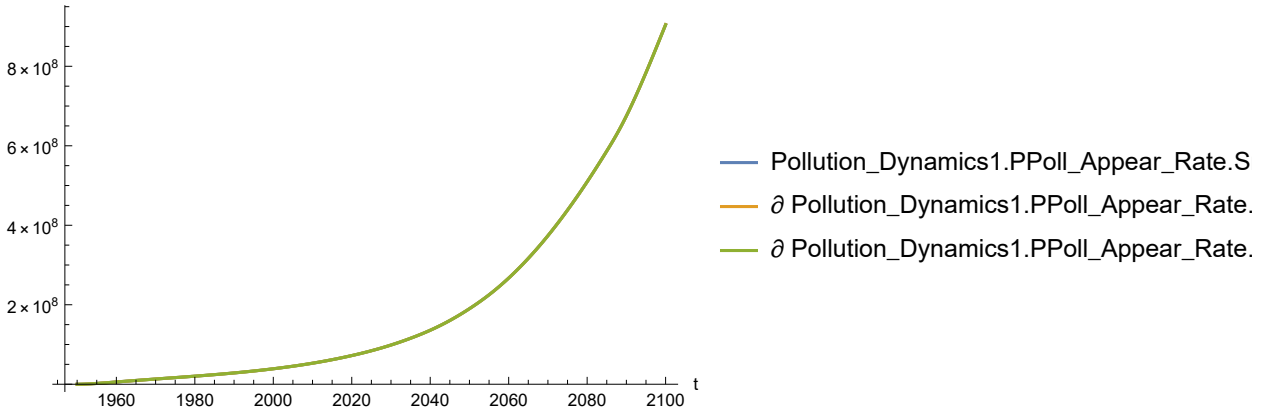
Out[232]=



In[233]:=

```
SystemModelPlot[simsensdata,
  {"Pollution_Dynamics1.PPoll_Appear_Rate.Smooth2.Integrator1.y",
   "Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[4]", percentvar}]
```

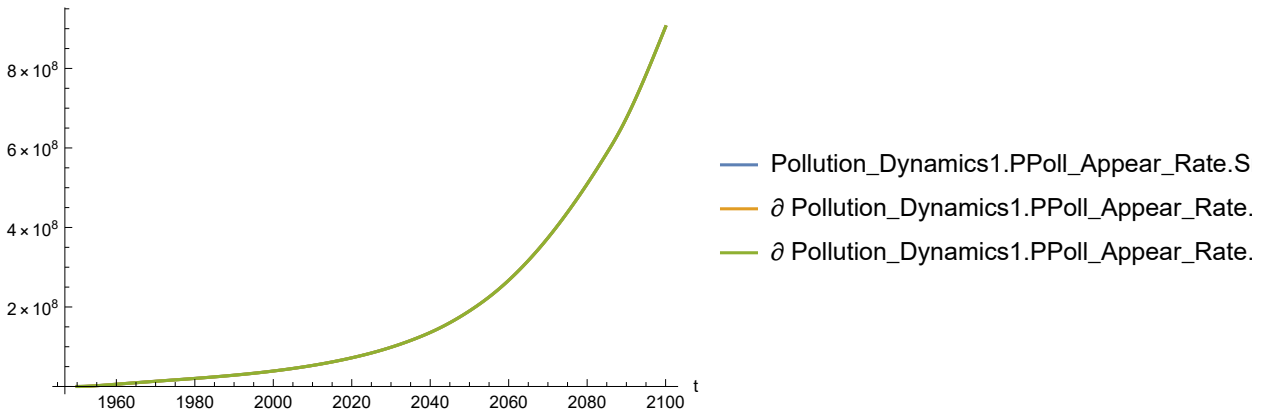
Out[233]=



In[234]:=

```
SystemModelPlot[simsensdata,
  {"Pollution_Dynamics1.PPoll_Appear_Rate.Smooth2.Integrator1.y",
   "Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[5]", percentvar}]
```

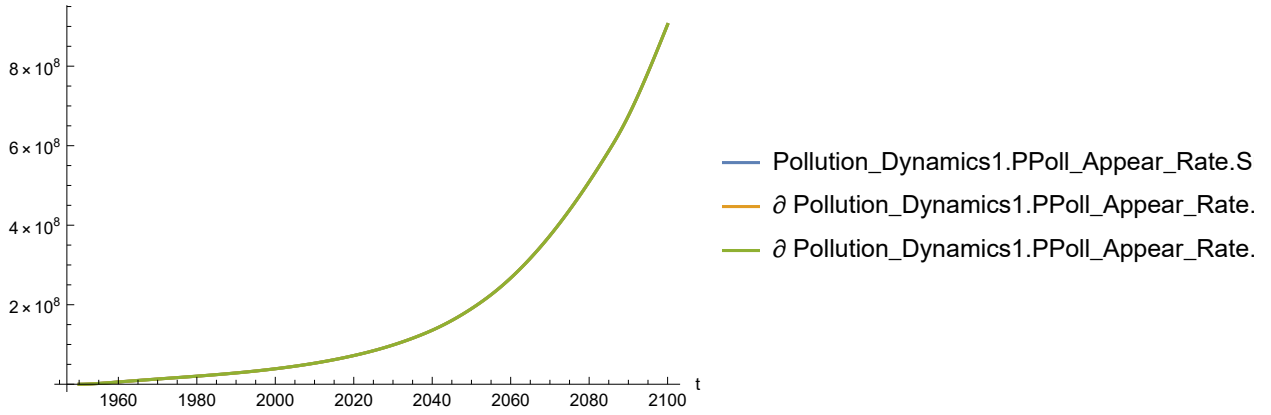
Out[234]=



In[235]:=

```
SystemModelPlot[simsensdata,
  {"Pollution_Dynamics1.PPoll_Appear_Rate.Smooth2.Integrator1.y",
   "Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[6]", percentvar}]
```

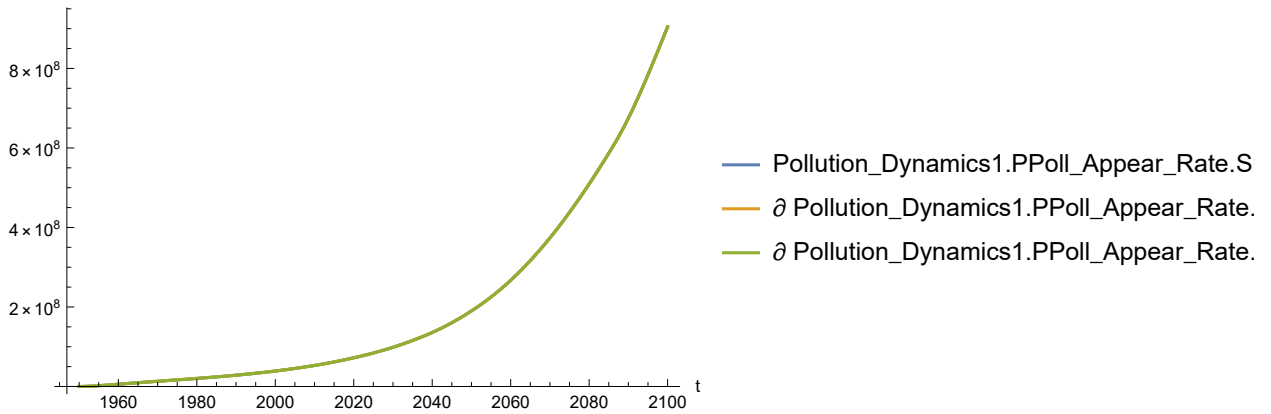
Out[235]=



In[236]:=

```
SystemModelPlot[simsensdata,
  {"Pollution_Dynamics1.PPoll_Appear_Rate.Smooth2.Integrator1.y",
   "Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[7]", percentvar}]
```

Out[236]=

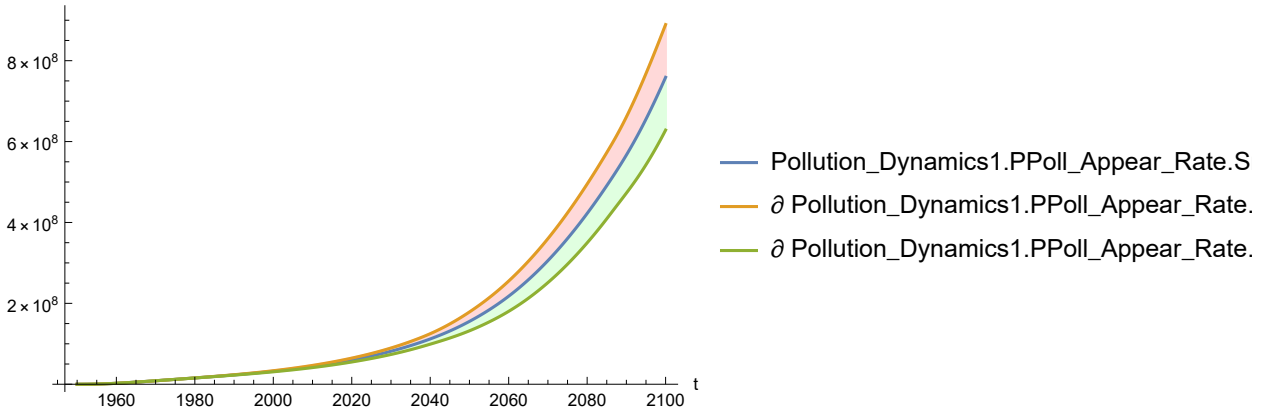


Plot the sensitivity of `Pollution_Dynamics1.PPoll_Appear_Rate.Smooth3.Integrator1.y` to `Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals`.

In[237]:=

```
SystemModelPlot[simsensdata,
  {"Pollution_Dynamics1.PPoll_Appear_Rate.Smooth3.Integrator1.y",
   "Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[1]", percentvar}]
```

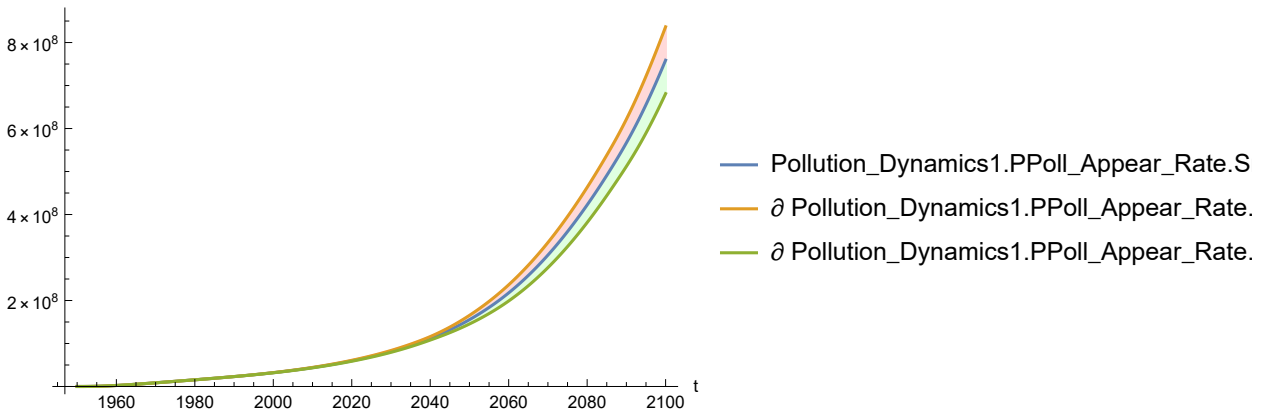
Out[237]=



In[238]:=

```
SystemModelPlot[simsensdata,
  {"Pollution_Dynamics1.PPoll_Appear_Rate.Smooth3.Integrator1.y",
   "Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[2]", percentvar}]
```

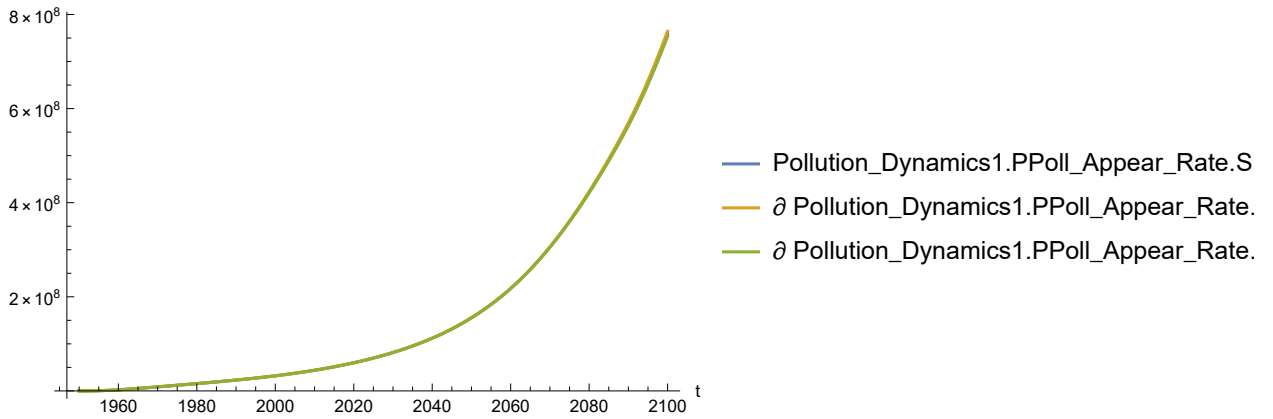
Out[238]=



In[239]:=

```
SystemModelPlot[simsensdata,
  {"Pollution_Dynamics1.PPoll_Appear_Rate.Smooth3.Integrator1.y",
   "Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[3]", percentvar}]
```

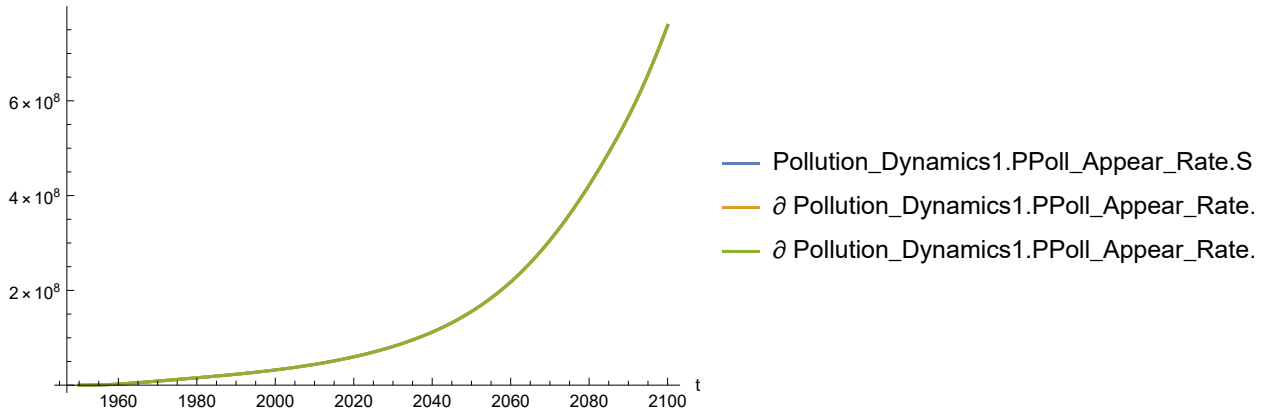
Out[239]=



In[240]:=

```
SystemModelPlot[simsensdata,
  {"Pollution_Dynamics1.PPoll_Appear_Rate.Smooth3.Integrator1.y",
   "Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[4]", percentvar}]
```

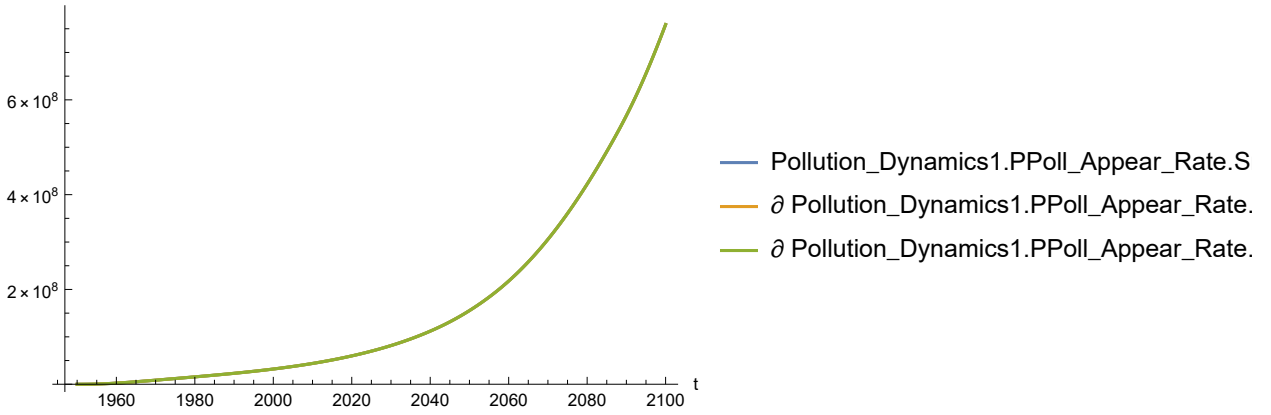
Out[240]=



In[241]:=

```
SystemModelPlot[simsensdata,
  {"Pollution_Dynamics1.PPoll_Appear_Rate.Smooth3.Integrator1.y",
   "Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[5]", percentvar}]
```

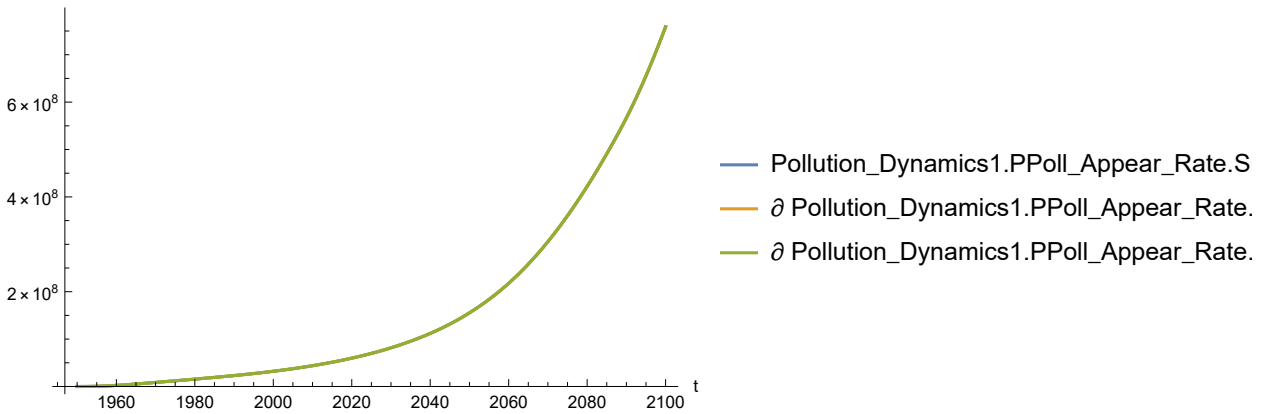
Out[241]=



In[242]:=

```
SystemModelPlot[simsensdata,
  {"Pollution_Dynamics1.PPoll_Appear_Rate.Smooth3.Integrator1.y",
   "Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[6]", percentvar}]
```

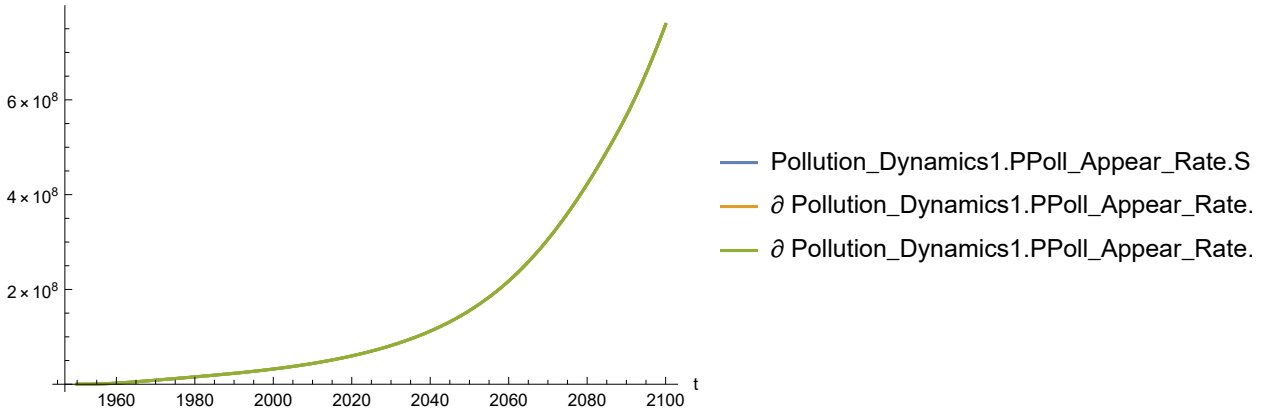
Out[242]=



In[243]:=

```
SystemModelPlot[simsensdata,
  {"Pollution_Dynamics1.PPoll_Appear_Rate.Smooth3.Integrator1.y",
   "Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[7]", percentvar}]
```

Out[243]:=

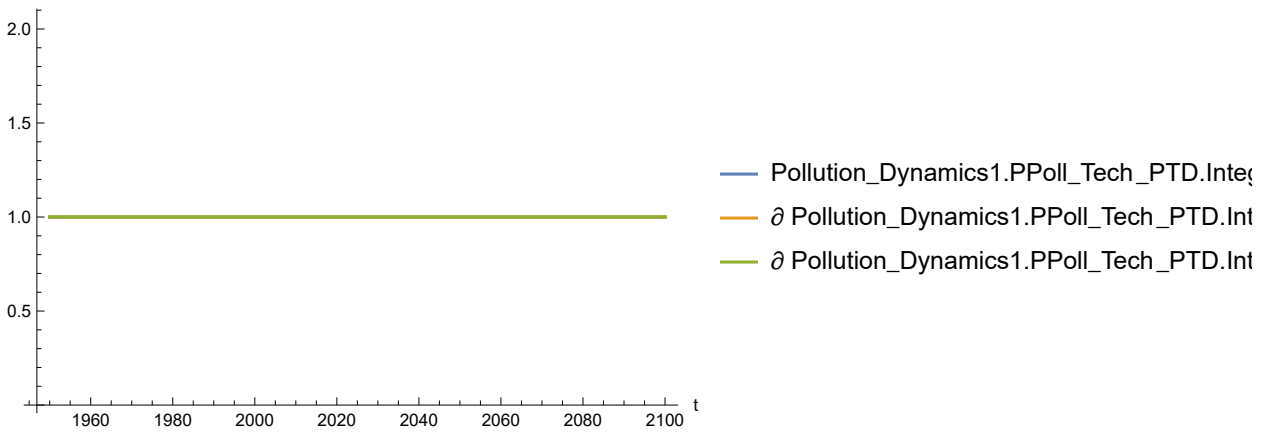


Plot the sensitivity of Pollution_Dynamics1.PPoll_Tech_PTD.Integrator1.y to Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals.

In[244]:=

```
SystemModelPlot[simsensdata, {"Pollution_Dynamics1.PPoll_Tech_PTD.Integrator1.y",
  "Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[1]", percentvar}]
```

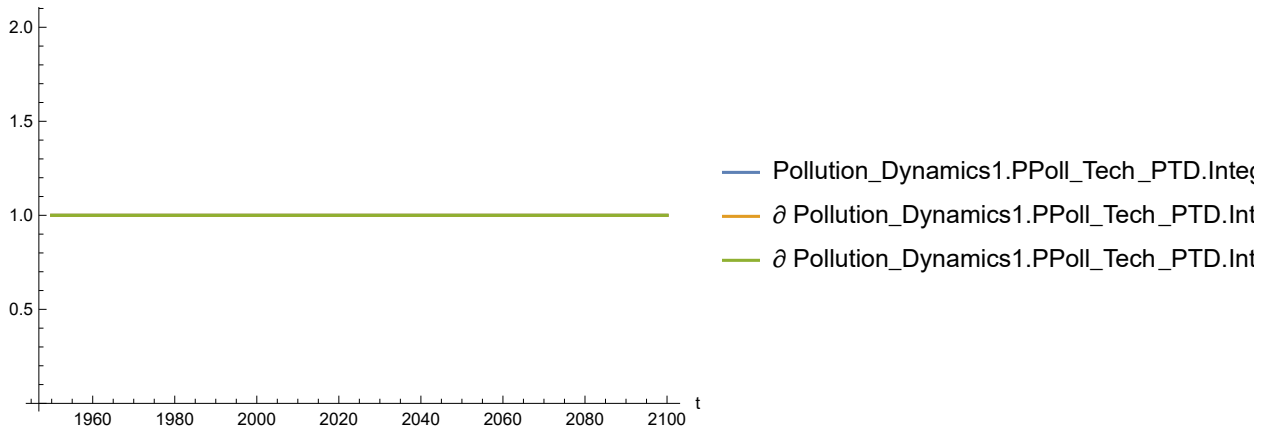
Out[244]:=



In[245]:=

```
SystemModelPlot[simsensdata, {"Pollution_Dynamics1.PPoll_Tech_PTD.Integrator1.y",
"Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[2]", percentvar}]
```

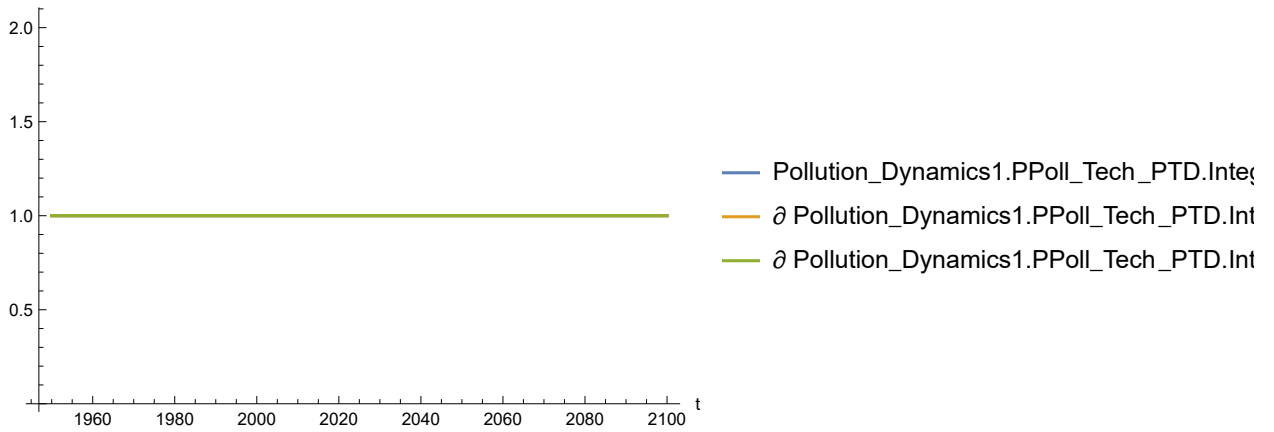
Out[245]=



In[246]:=

```
SystemModelPlot[simsensdata, {"Pollution_Dynamics1.PPoll_Tech_PTD.Integrator1.y",
"Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[3]", percentvar}]
```

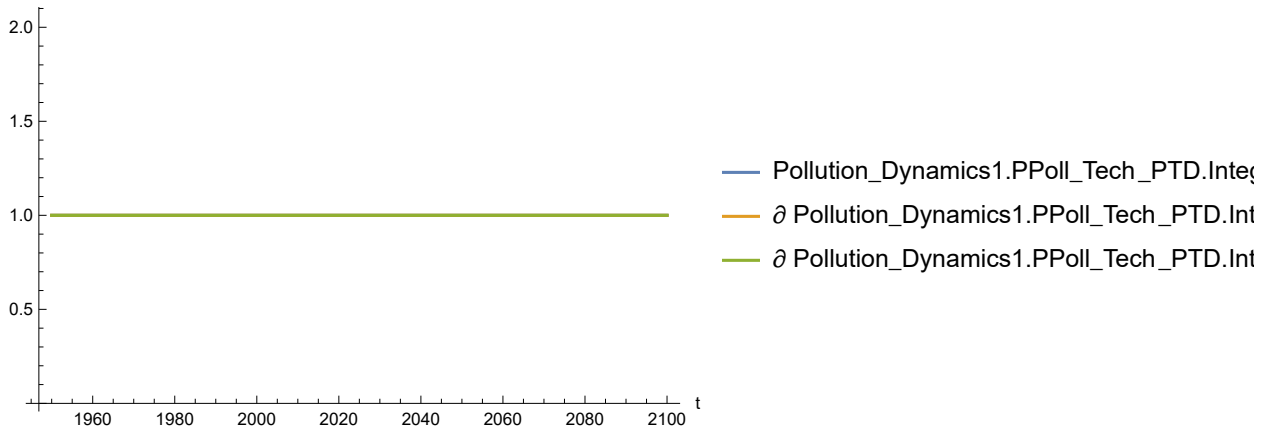
Out[246]=



In[247]:=

```
SystemModelPlot[simsensdata, {"Pollution_Dynamics1.PPoll_Tech_PTD.Integrator1.y",
"Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[4]", percentvar}]
```

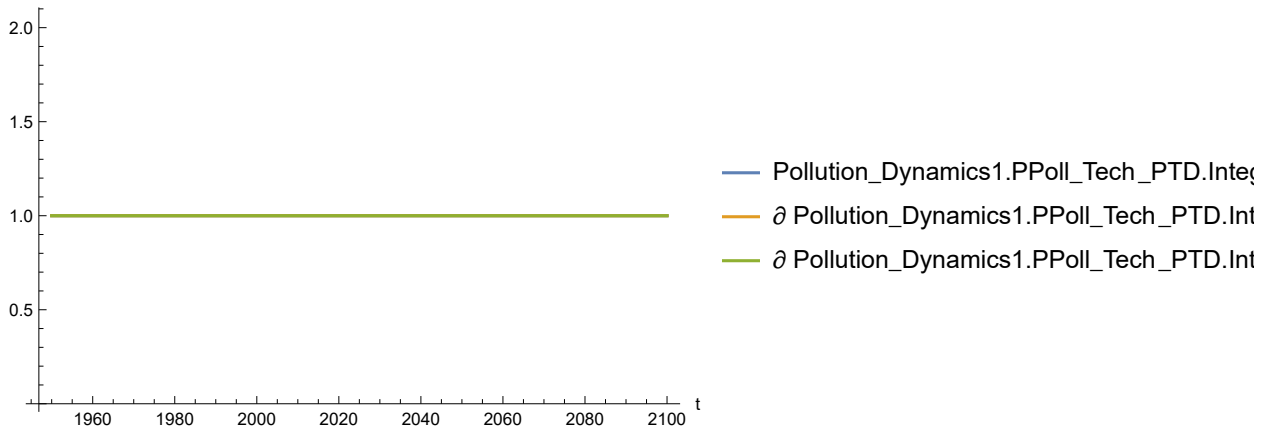
Out[247]=



In[248]:=

```
SystemModelPlot[simsensdata, {"Pollution_Dynamics1.PPoll_Tech_PTD.Integrator1.y",
"Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[5]", percentvar}]
```

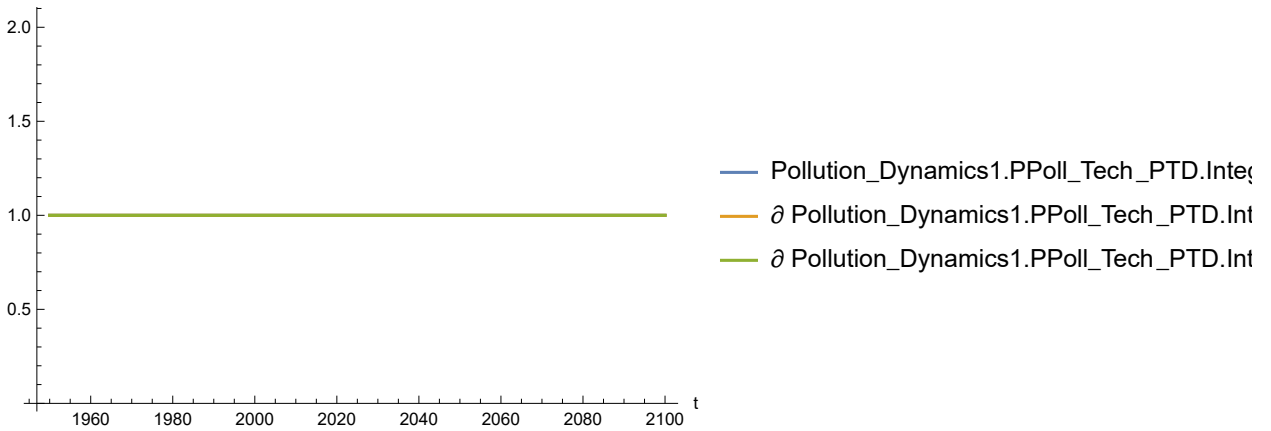
Out[248]=



In[249]:=

```
SystemModelPlot[simsensdata, {"Pollution_Dynamics1.PPoll_Tech_PTD.Integrator1.y",
"Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[6]", percentvar}]
```

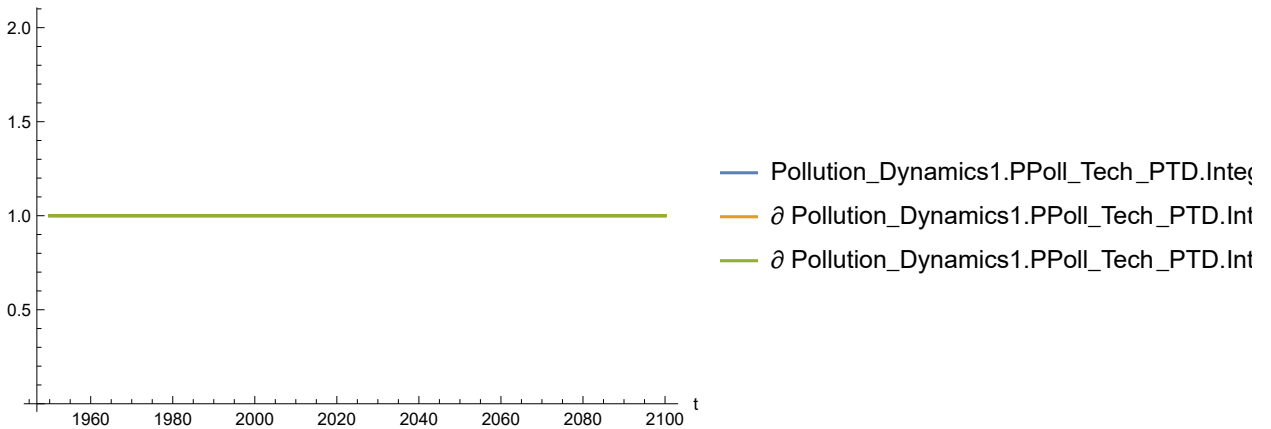
Out[249]=



In[250]:=

```
SystemModelPlot[simsensdata, {"Pollution_Dynamics1.PPoll_Tech_PTD.Integrator1.y",
"Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[7]", percentvar}]
```

Out[250]=

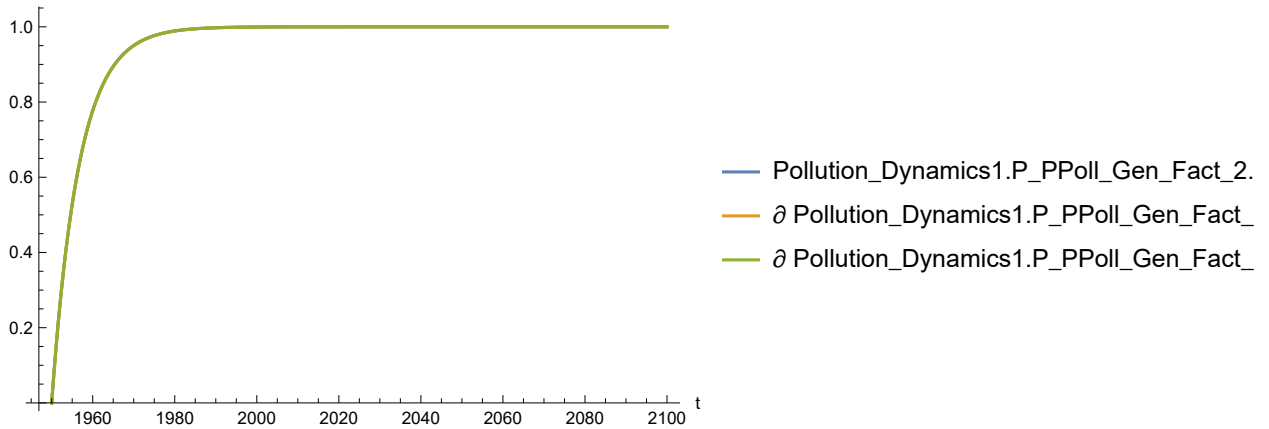


Plot the sensitivity of Pollution_Dynamics1.P_PPoll_Gen_Fact_2.Smooth1.Integrator1.y to Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals.

In[251]:=

```
SystemModelPlot[simsensdata,
  {"Pollution_Dynamics1.P_PPoll_Gen_Fact_2.Smooth1.Integrator1.y",
   "Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[1]", percentvar}]
```

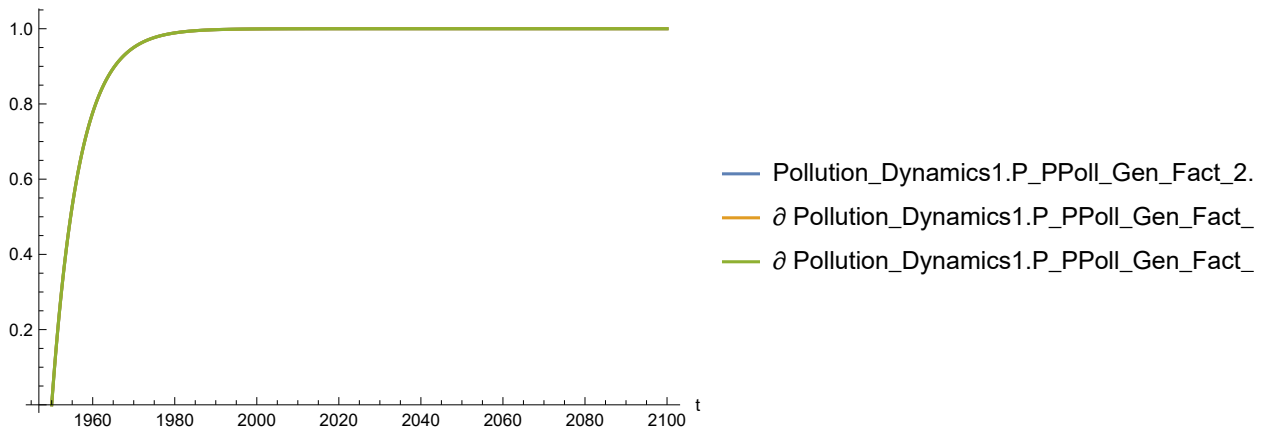
Out[251]=



In[252]:=

```
SystemModelPlot[simsensdata,
  {"Pollution_Dynamics1.P_PPoll_Gen_Fact_2.Smooth1.Integrator1.y",
   "Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[2]", percentvar}]
```

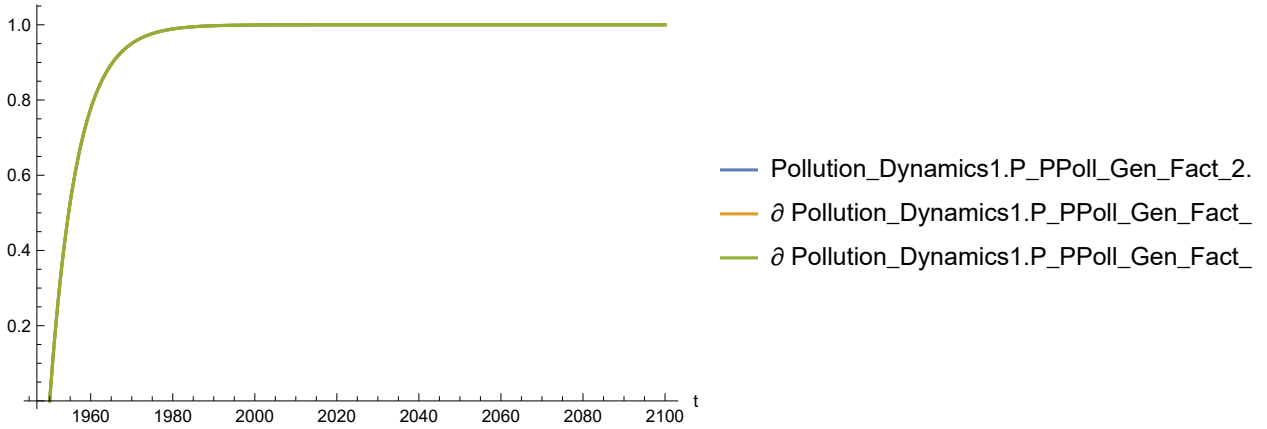
Out[252]=



In[253]:=

```
SystemModelPlot[simsensdata,
  {"Pollution_Dynamics1.P_PPoll_Gen_Fact_2.Smooth1.Integrator1.y",
   "Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[3]", percentvar}]
```

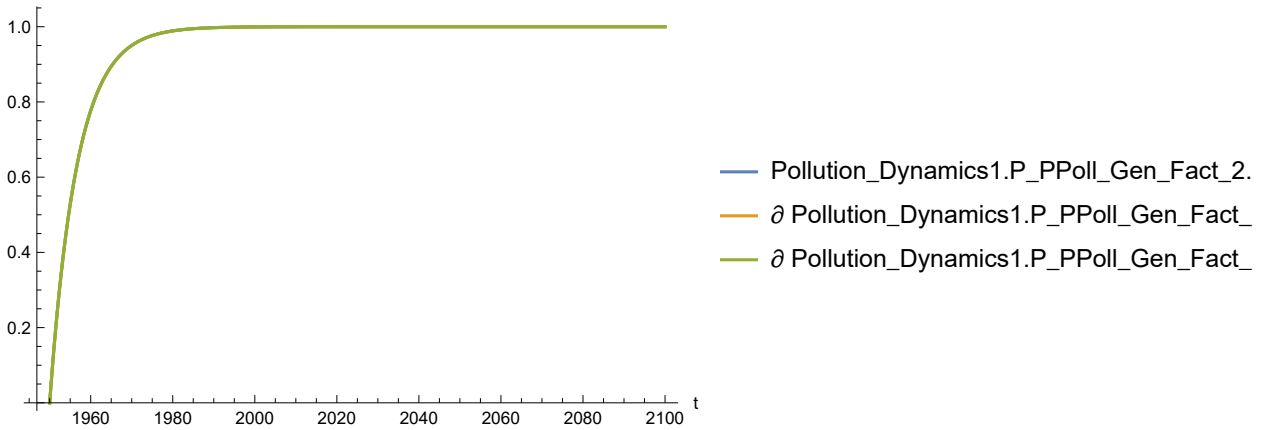
Out[253]=



In[254]:=

```
SystemModelPlot[simsensdata,
  {"Pollution_Dynamics1.P_PPoll_Gen_Fact_2.Smooth1.Integrator1.y",
   "Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[4]", percentvar}]
```

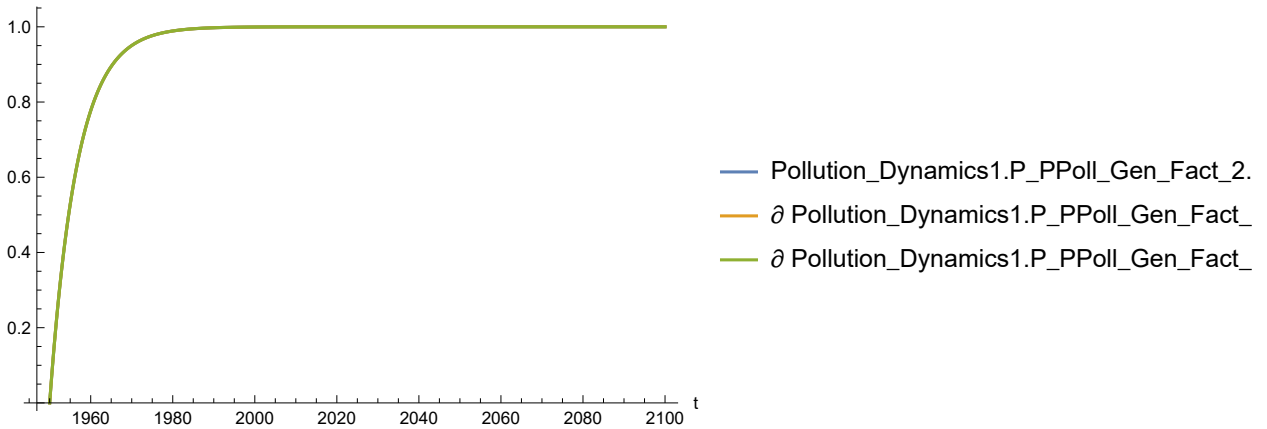
Out[254]=



In[255]:=

```
SystemModelPlot[simsensdata,
  {"Pollution_Dynamics1.P_PPoll_Gen_Fact_2.Smooth1.Integrator1.y",
   "Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[5]", percentvar}]
```

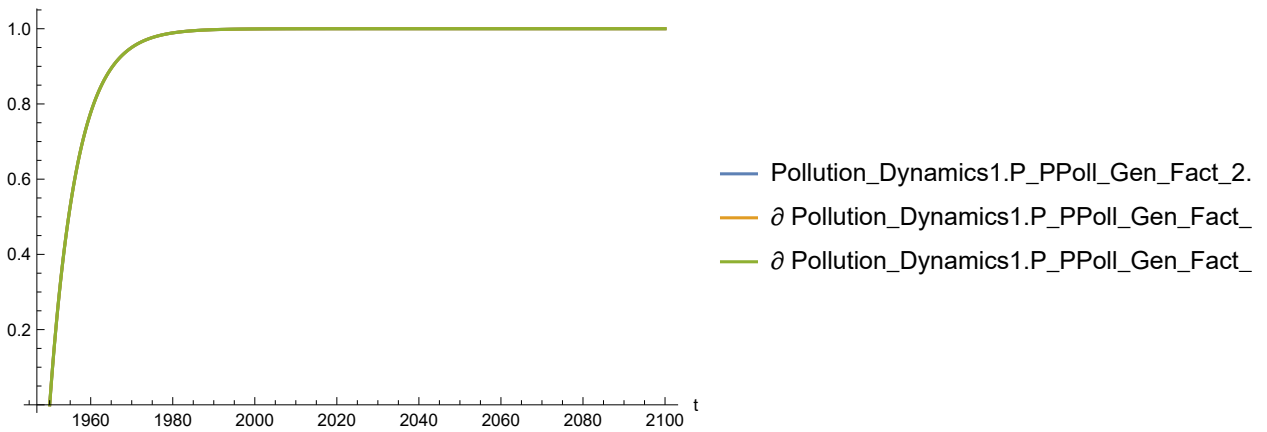
Out[255]=



In[256]:=

```
SystemModelPlot[simsensdata,
  {"Pollution_Dynamics1.P_PPoll_Gen_Fact_2.Smooth1.Integrator1.y",
   "Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[6]", percentvar}]
```

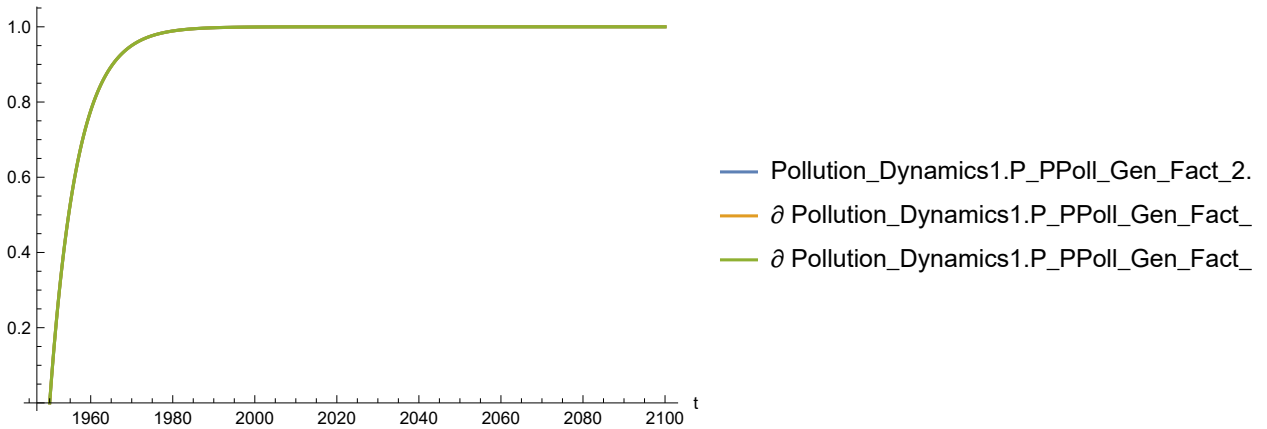
Out[256]=



In[257]:=

```
SystemModelPlot[simsensdata,
  {"Pollution_Dynamics1.P_PPoll_Gen_Fact_2.Smooth1.Integrator1.y",
   "Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[7]", percentvar}]]
```

Out[257]=

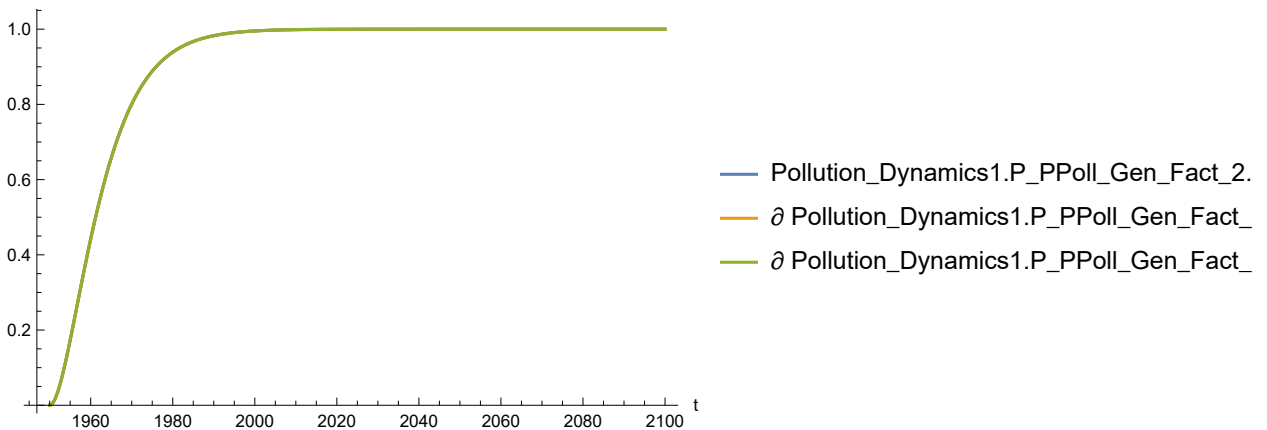


Plot the sensitivity of Pollution_Dynamics1.P_PPoll_Gen_Fact_2.Smooth2.Integrator1.y to Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals.

In[258]:=

```
SystemModelPlot[simsensdata,
  {"Pollution_Dynamics1.P_PPoll_Gen_Fact_2.Smooth2.Integrator1.y",
   "Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[1]", percentvar}]]
```

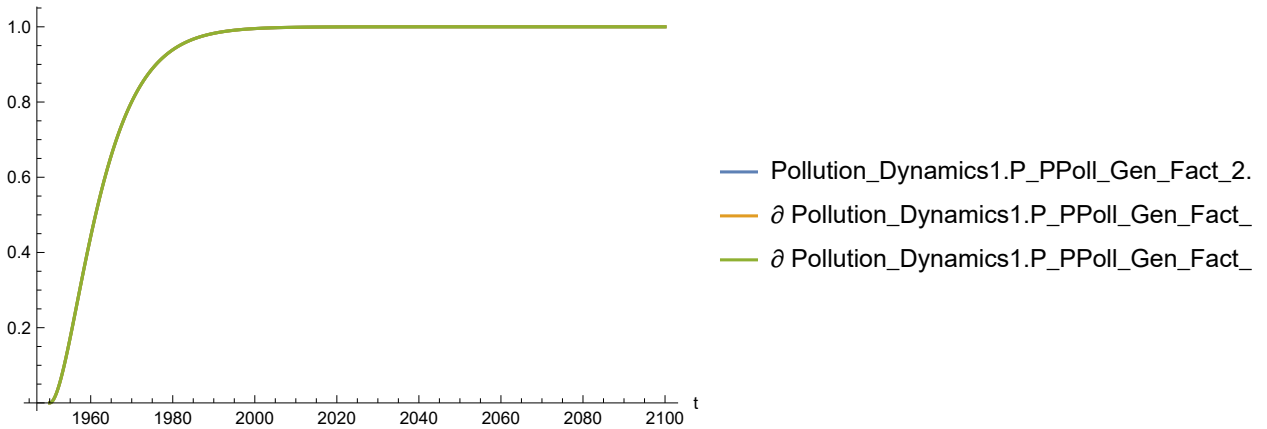
Out[258]=



In[259]:=

```
SystemModelPlot[simsensdata,
  {"Pollution_Dynamics1.P_PPoll_Gen_Fact_2.Smooth2.Integrator1.y",
   "Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[2]", percentvar}]
```

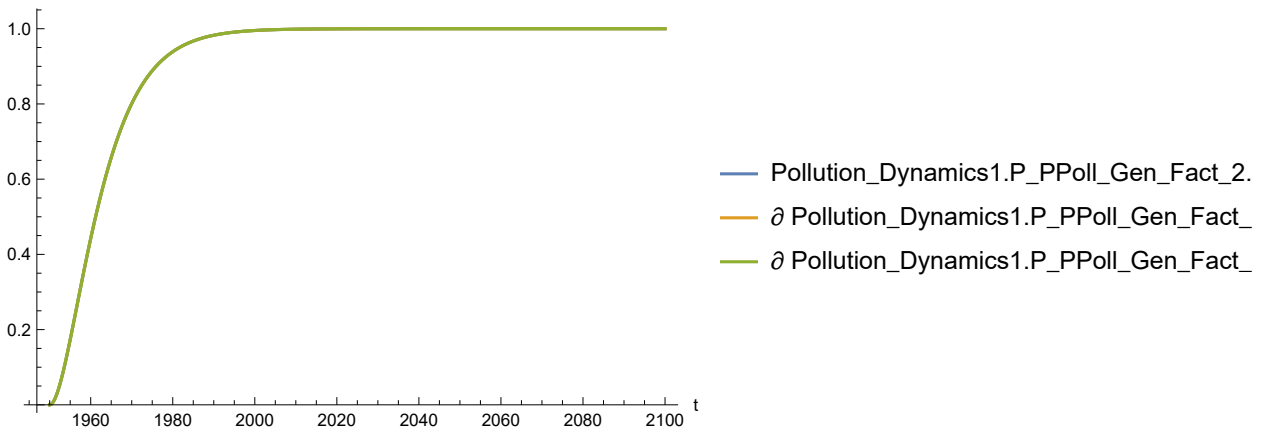
Out[259]=



In[260]:=

```
SystemModelPlot[simsensdata,
  {"Pollution_Dynamics1.P_PPoll_Gen_Fact_2.Smooth2.Integrator1.y",
   "Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[3]", percentvar}]
```

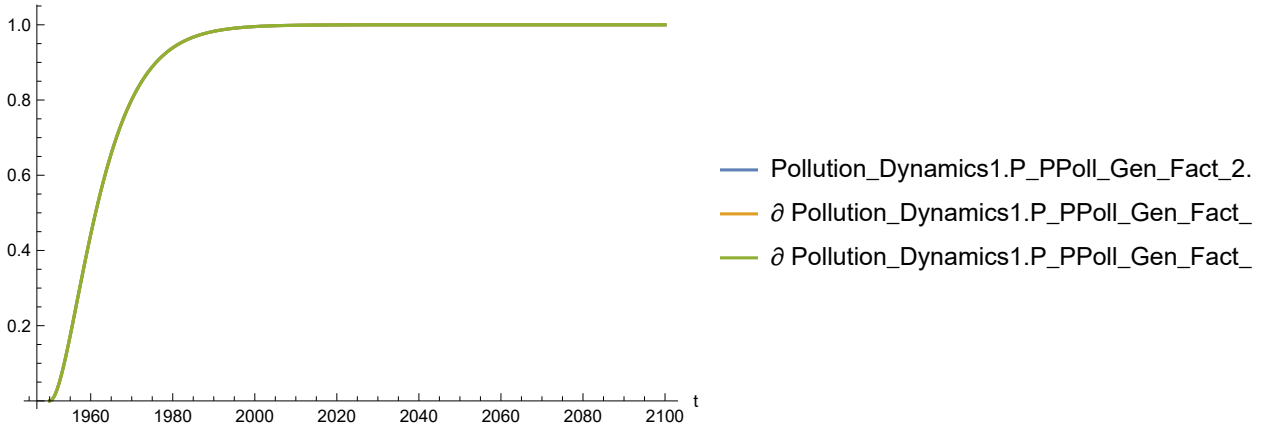
Out[260]=



In[261]:=

```
SystemModelPlot[simsensdata,
  {"Pollution_Dynamics1.P_PPoll_Gen_Fact_2.Smooth2.Integrator1.y",
   "Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[4]", percentvar}]
```

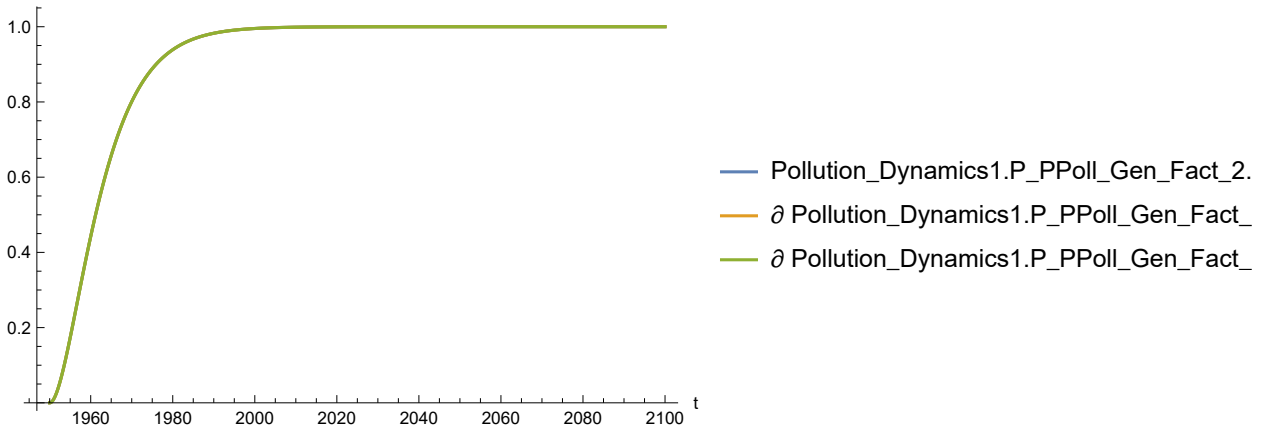
Out[261]=



In[262]:=

```
SystemModelPlot[simsensdata,
  {"Pollution_Dynamics1.P_PPoll_Gen_Fact_2.Smooth2.Integrator1.y",
   "Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[5]", percentvar}]
```

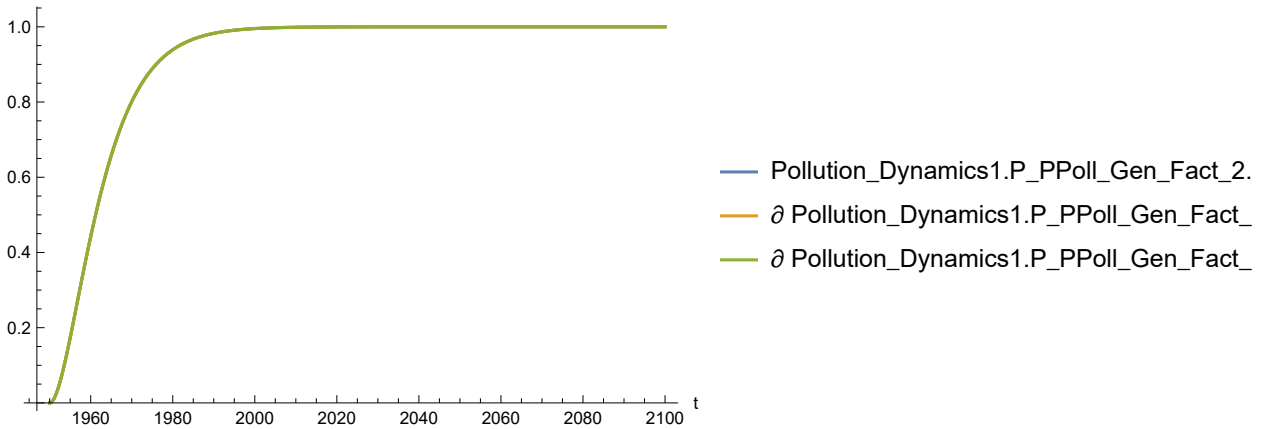
Out[262]=



In[263]:=

```
SystemModelPlot[simsensdata,
  {"Pollution_Dynamics1.P_PPoll_Gen_Fact_2.Smooth2.Integrator1.y",
   "Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[6]", percentvar}]
```

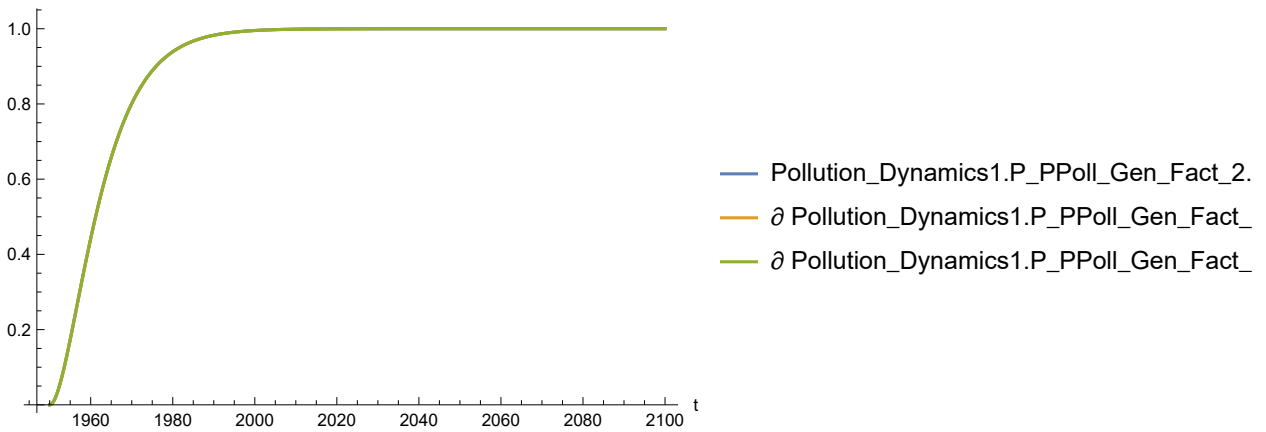
Out[263]=



In[264]:=

```
SystemModelPlot[simsensdata,
  {"Pollution_Dynamics1.P_PPoll_Gen_Fact_2.Smooth2.Integrator1.y",
   "Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[7]", percentvar}]
```

Out[264]=

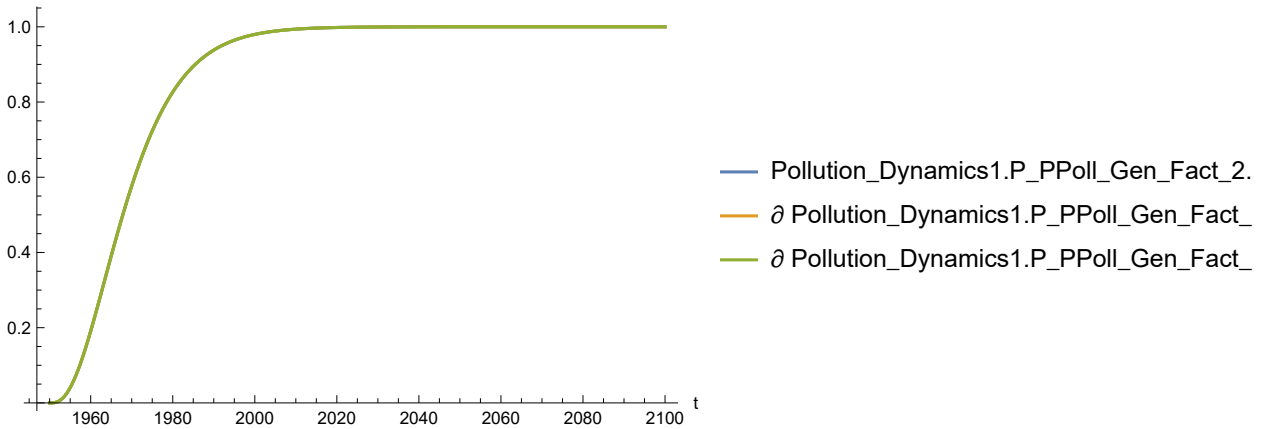


Plot the sensitivity of Pollution_Dynamics1.P_PPoll_Gen_Fact_2.Smooth3.Integrator1.y to Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals.

In[265]:=

```
SystemModelPlot[simsensdata,
  {"Pollution_Dynamics1.P_PPoll_Gen_Fact_2.Smooth3.Integrator1.y",
   "Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[1]", percentvar}]
```

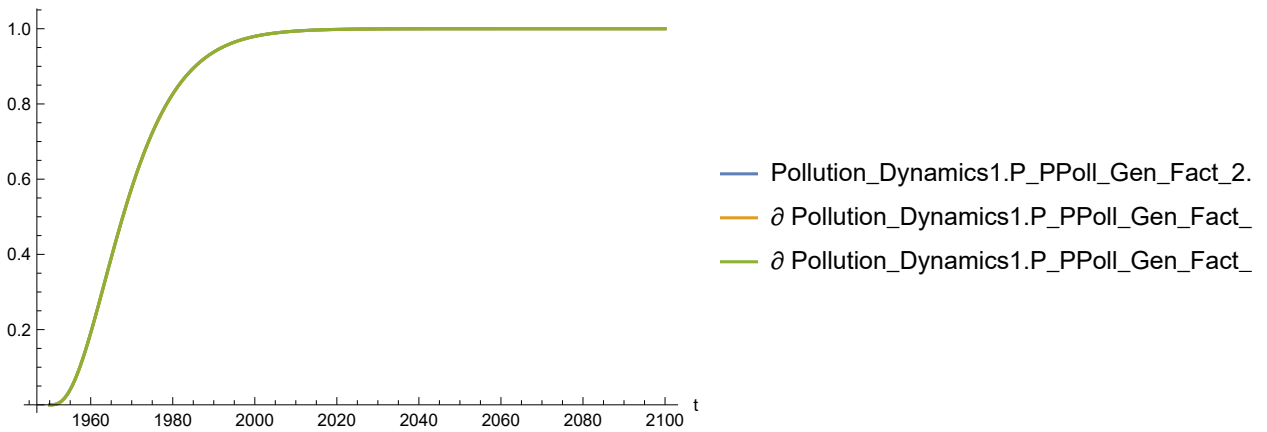
Out[265]=



In[266]:=

```
SystemModelPlot[simsensdata,
  {"Pollution_Dynamics1.P_PPoll_Gen_Fact_2.Smooth3.Integrator1.y",
   "Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[2]", percentvar}]
```

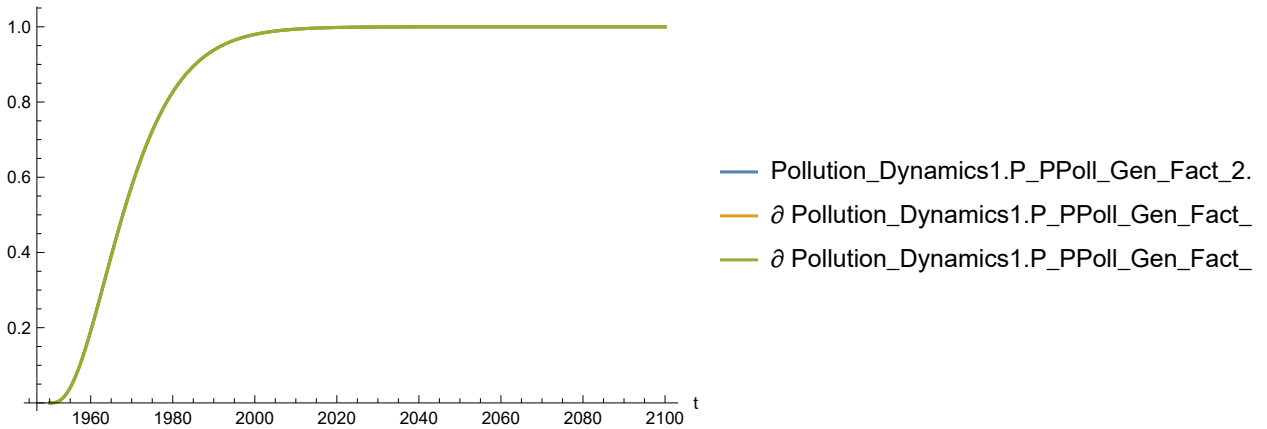
Out[266]=



In[267]:=

```
SystemModelPlot[simsensdata,
  {"Pollution_Dynamics1.P_PPoll_Gen_Fact_2.Smooth3.Integrator1.y",
   "Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[3]", percentvar}]
```

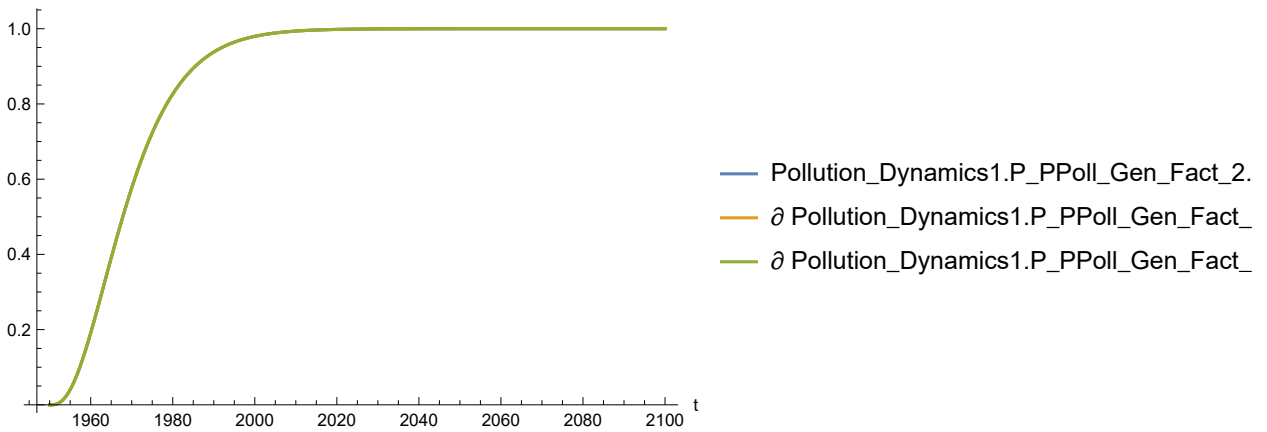
Out[267]=



In[268]:=

```
SystemModelPlot[simsensdata,
  {"Pollution_Dynamics1.P_PPoll_Gen_Fact_2.Smooth3.Integrator1.y",
   "Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[4]", percentvar}]
```

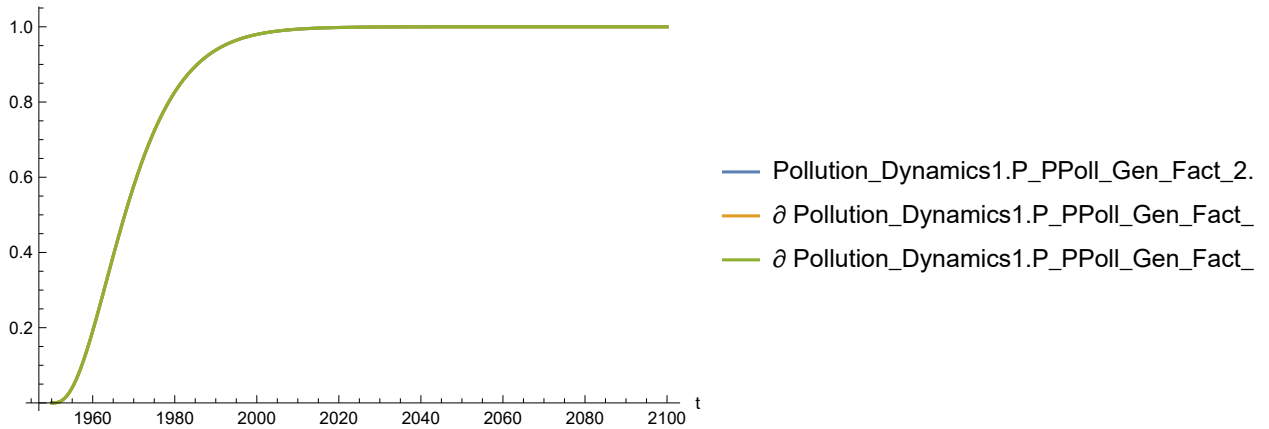
Out[268]=



In[269]:=

```
SystemModelPlot[simsensdata,
  {"Pollution_Dynamics1.P_PPoll_Gen_Fact_2.Smooth3.Integrator1.y",
   "Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[5]", percentvar}]
```

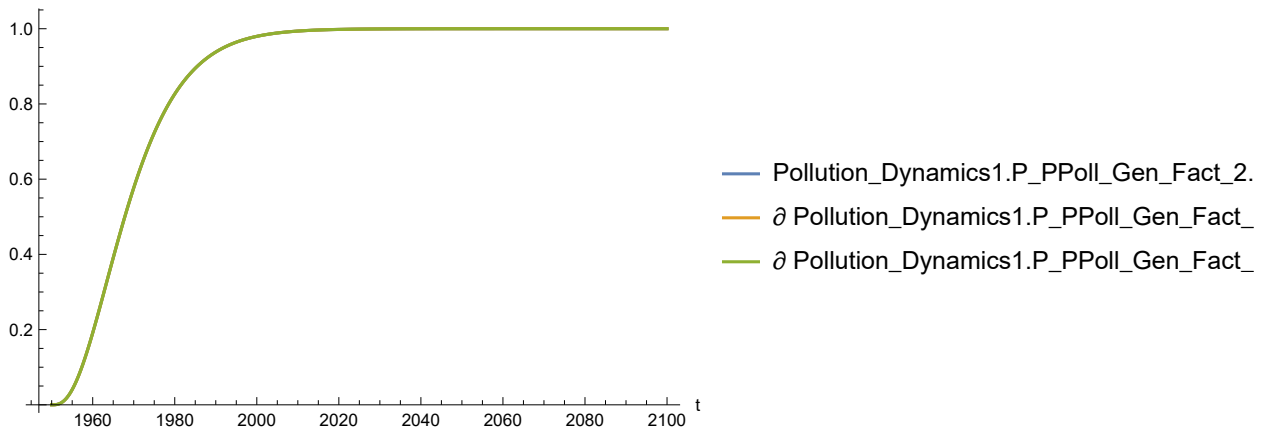
Out[269]=



In[270]:=

```
SystemModelPlot[simsensdata,
  {"Pollution_Dynamics1.P_PPoll_Gen_Fact_2.Smooth3.Integrator1.y",
   "Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[6]", percentvar}]
```

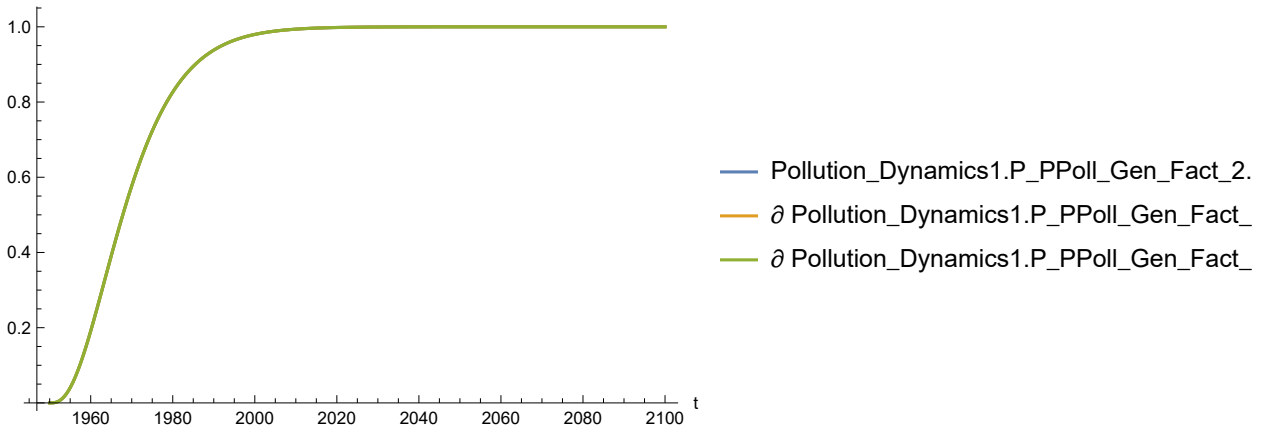
Out[270]=



In[271]:=

```
SystemModelPlot[simsensdata,
  {"Pollution_Dynamics1.P_PPoll_Gen_Fact_2.Smooth3.Integrator1.y",
   "Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[7]", percentvar}]
```

Out[271]=

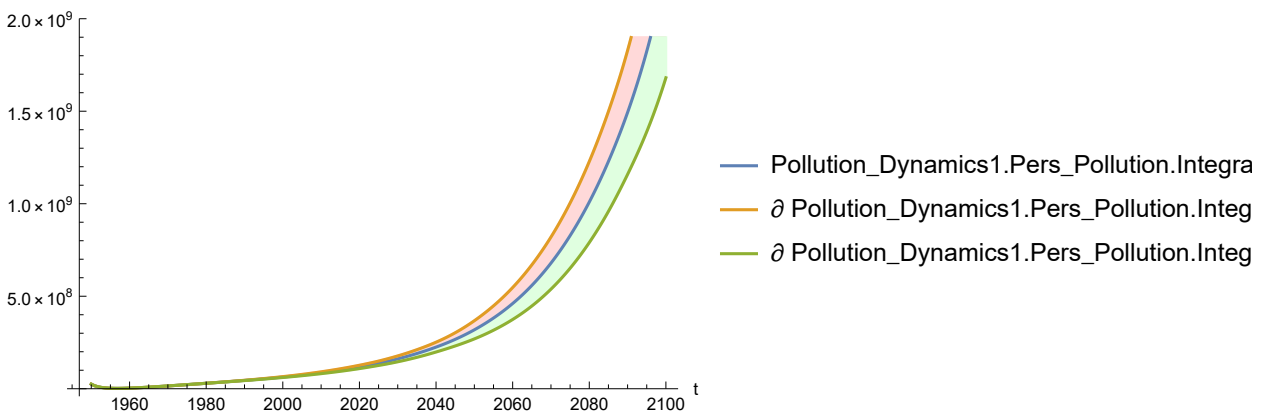


Plot the sensitivity of Pollution_Dynamics1.Pers_Pollution.Integrator1.y to Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals.

In[272]:=

```
SystemModelPlot[simsensdata, {"Pollution_Dynamics1.Pers_Pollution.Integrator1.y",
  "Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[1]", percentvar}]
```

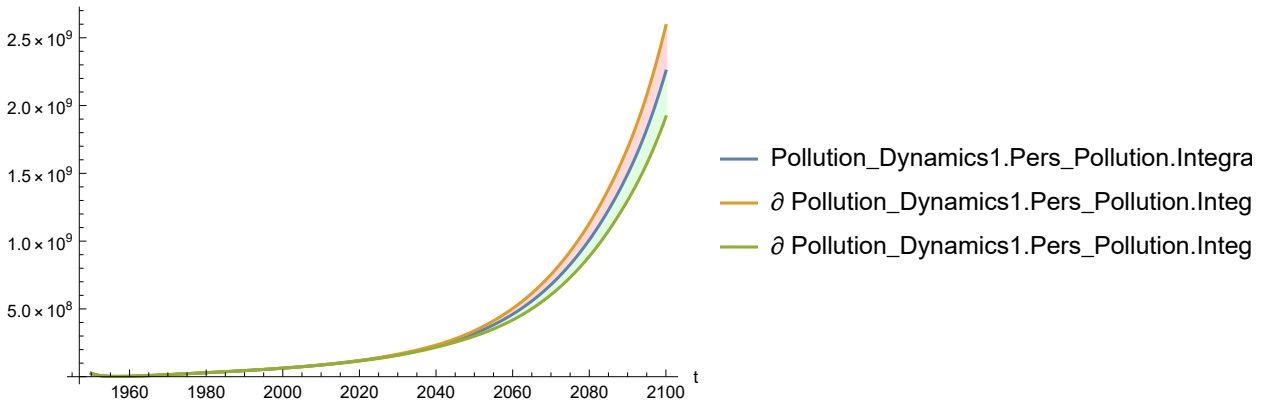
Out[272]=



In[273]:=

```
SystemModelPlot[simsensdata, {"Pollution_Dynamics1.Pers_Pollution.Integrator1.y",
"Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[2]", percentvar}]
```

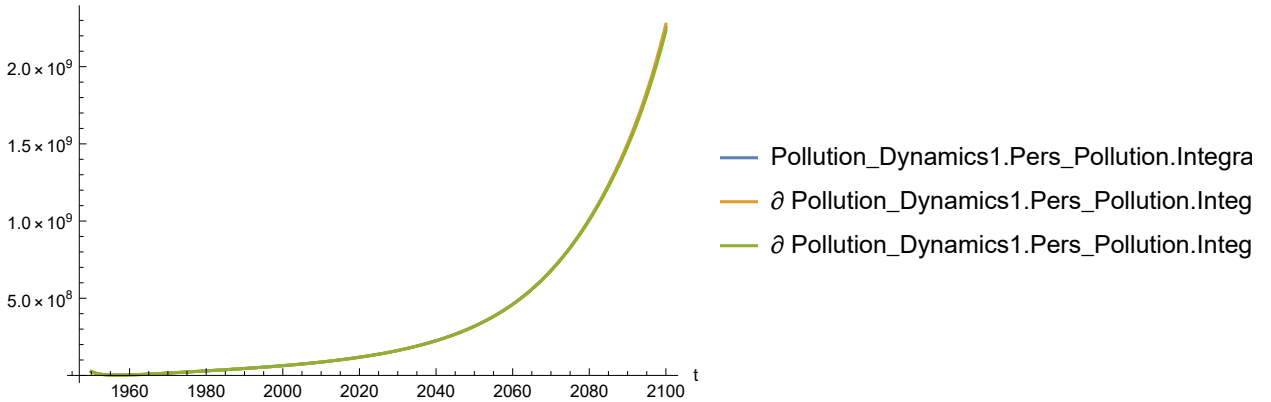
Out[273]=



In[274]:=

```
SystemModelPlot[simsensdata, {"Pollution_Dynamics1.Pers_Pollution.Integrator1.y",
"Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[3]", percentvar}]
```

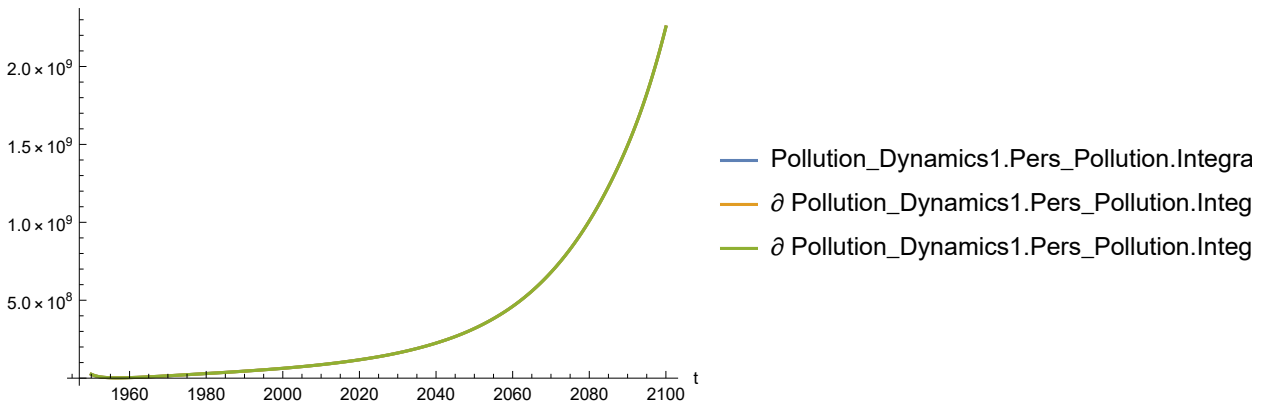
Out[274]=



In[275]:=

```
SystemModelPlot[simsensdata, {"Pollution_Dynamics1.Pers_Pollution.Integrator1.y",
"Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[4]", percentvar}]
```

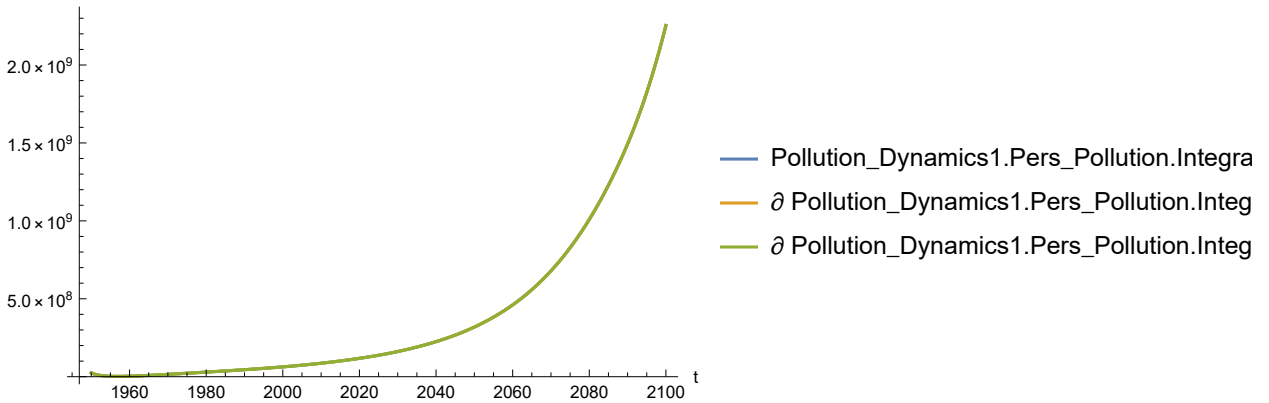
Out[275]=



In[276]:=

```
SystemModelPlot[simsensdata, {"Pollution_Dynamics1.Pers_Pollution.Integrator1.y",
"Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[5]", percentvar}]
```

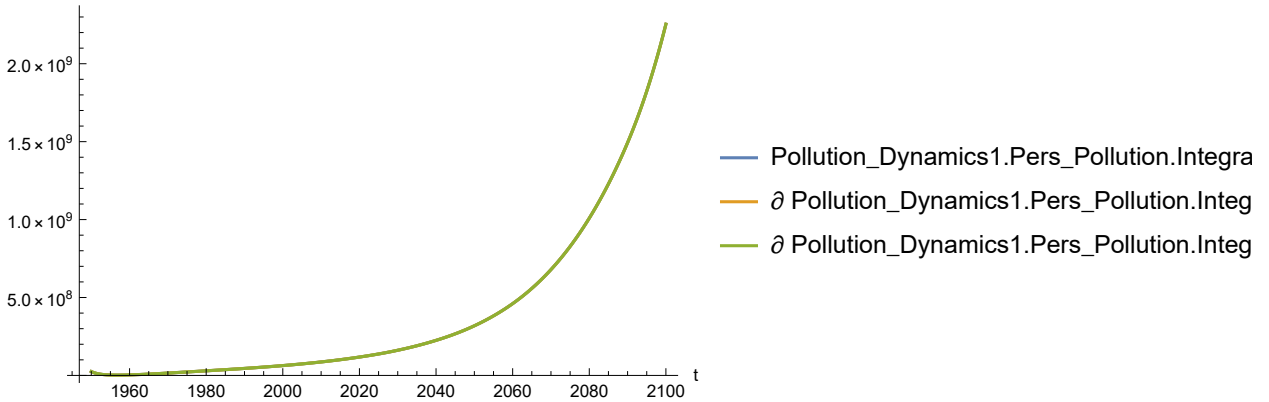
Out[276]=



In[277]:=

```
SystemModelPlot[simsensdata, {"Pollution_Dynamics1.Pers_Pollution.Integrator1.y",
"Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[6]", percentvar}]
```

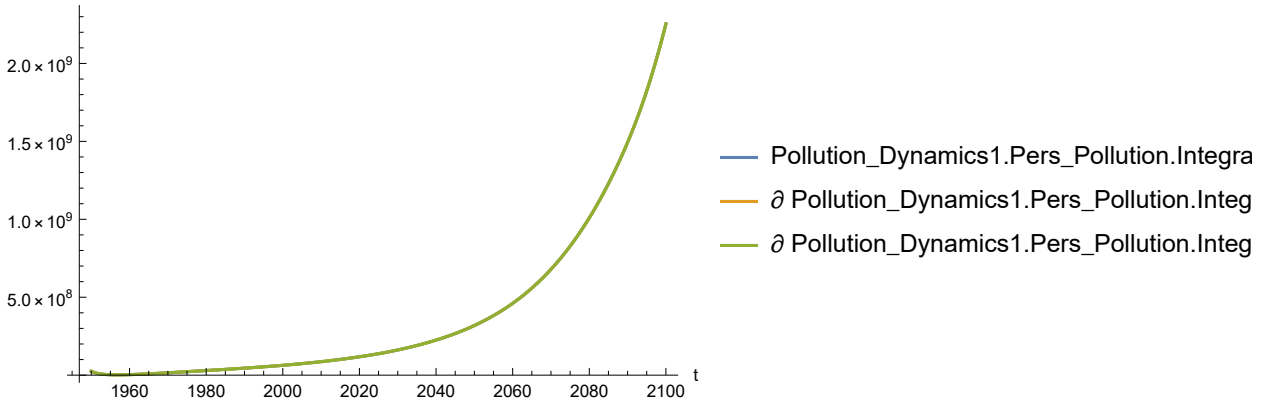
Out[277]=



In[278]:=

```
SystemModelPlot[simsensdata, {"Pollution_Dynamics1.Pers_Pollution.Integrator1.y",
"Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[7]", percentvar}]
```

Out[278]=

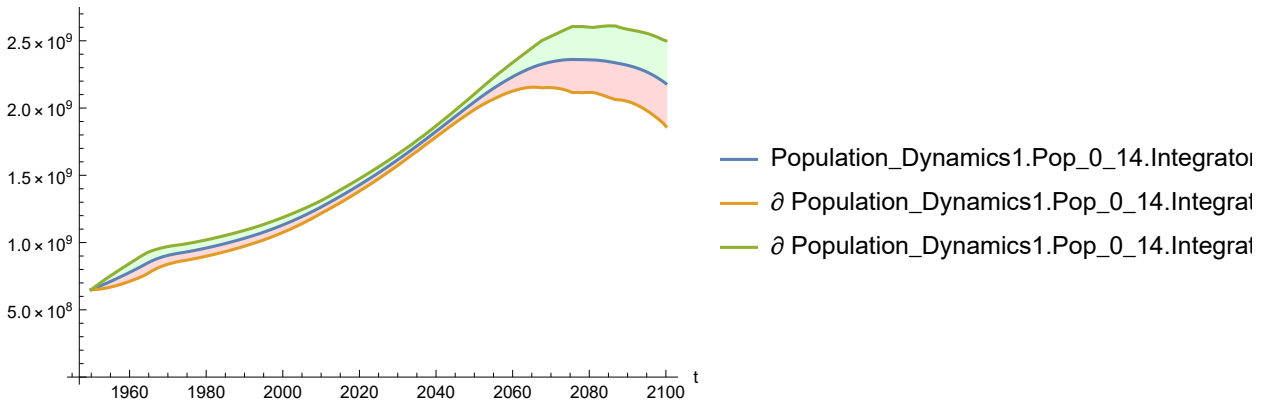


Plot sensitivity of population to **Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals**. In World3, population is divided into four subpopulations by age: 0-14 years, 15-44 years, 45-64 years, and 65 year and over.

In[279]:=

```
SystemModelPlot[simsensdata, {"Population_Dynamics1.Pop_0_14.Integrator1.y",
"Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[1]", percentvar}]
```

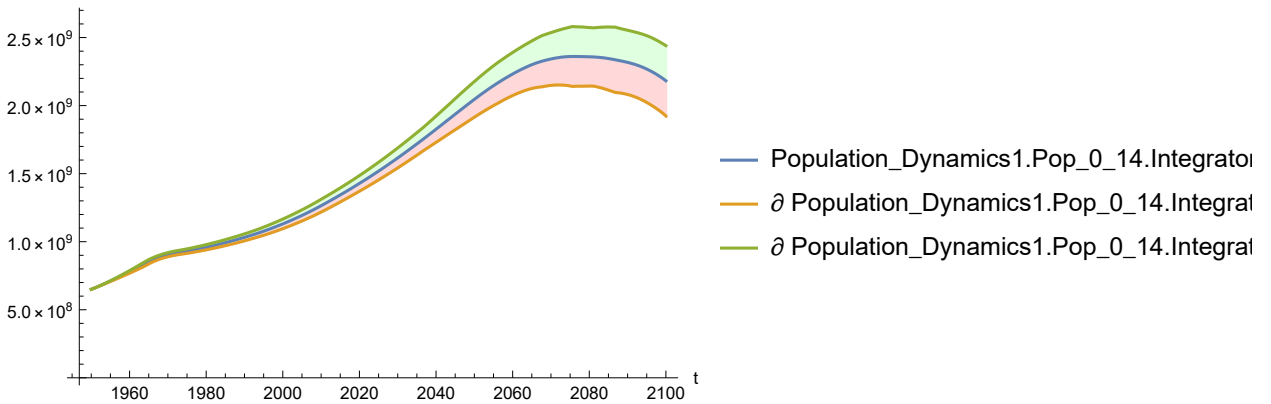
Out[279]=



In[280]:=

```
SystemModelPlot[simsensdata, {"Population_Dynamics1.Pop_0_14.Integrator1.y",
"Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[2]", percentvar}]
```

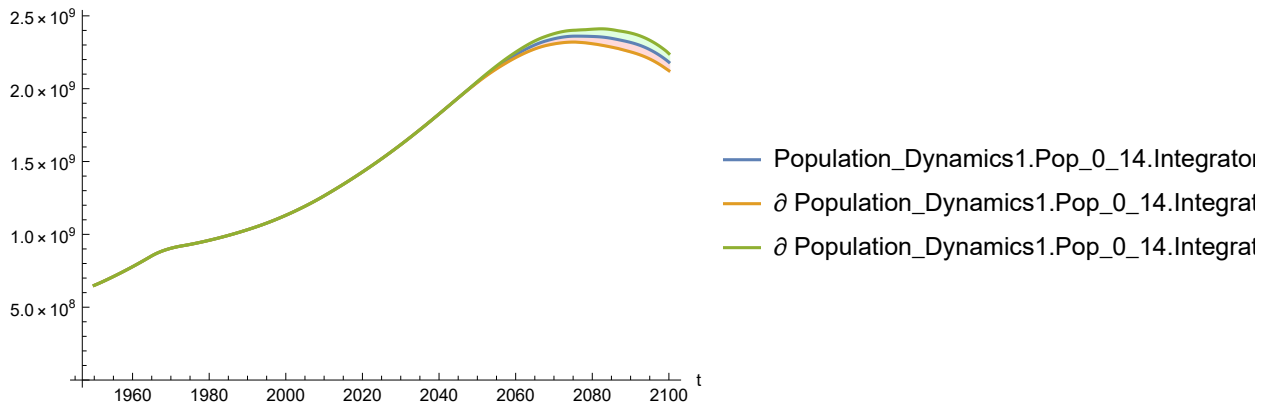
Out[280]=



In[281]:=

```
SystemModelPlot[simsensdata, {"Population_Dynamics1.Pop_0_14.Integrator1.y",
"Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[3]", percentvar}]
```

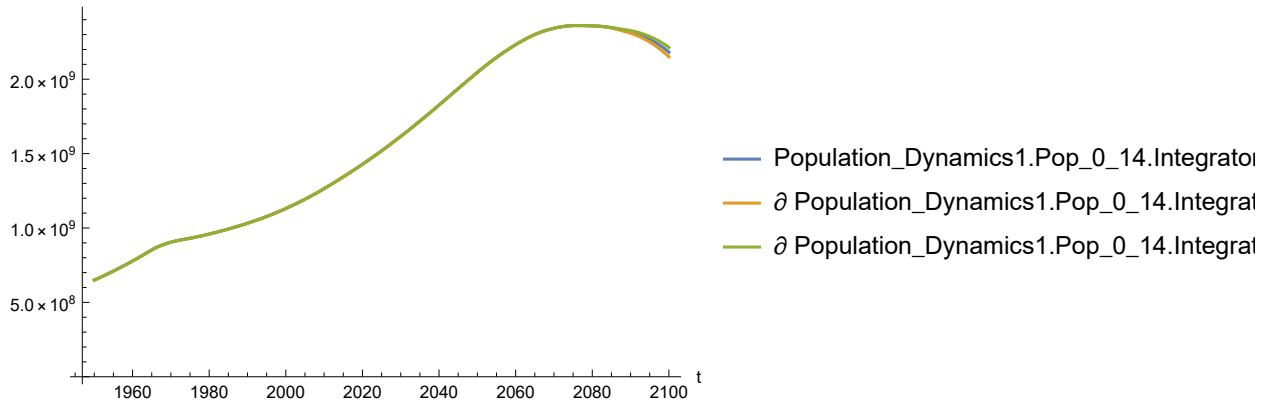
Out[281]=



In[282]:=

```
SystemModelPlot[simsensdata, {"Population_Dynamics1.Pop_0_14.Integrator1.y",
"Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[4]", percentvar}]
```

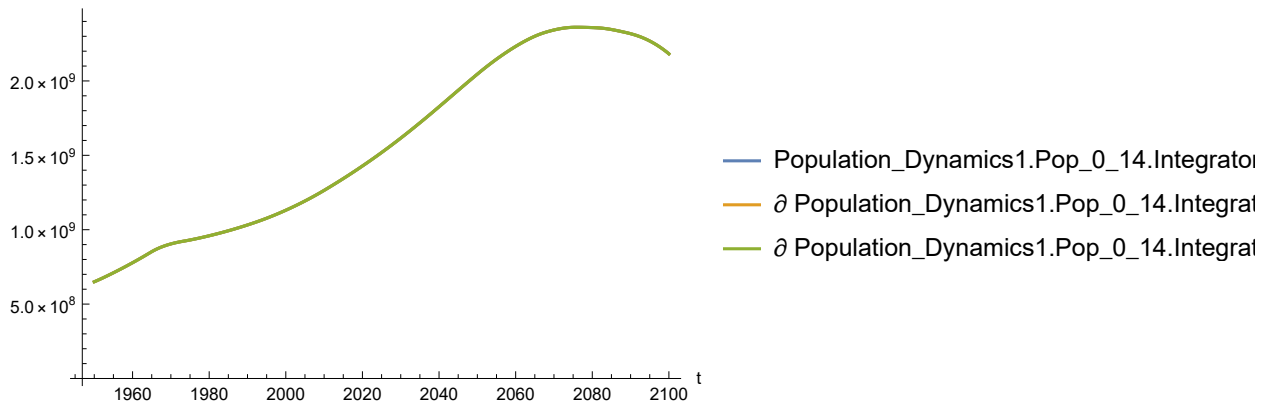
Out[282]=



In[283]:=

```
SystemModelPlot[simsensdata, {"Population_Dynamics1.Pop_0_14.Integrator1.y",
"Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[5]", percentvar}]
```

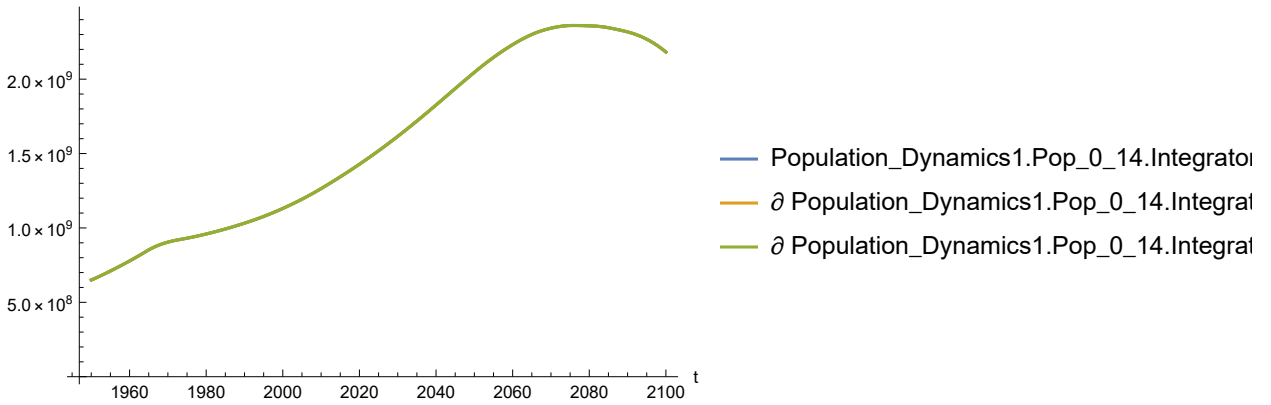
Out[283]=



In[284]:=

```
SystemModelPlot[simsensdata, {"Population_Dynamics1.Pop_0_14.Integrator1.y",
"Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[6]", percentvar}]
```

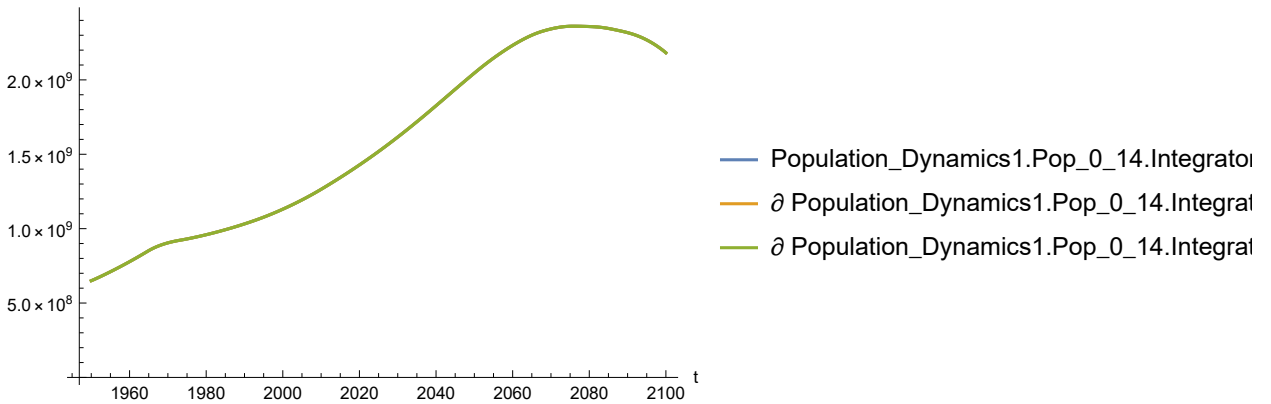
Out[284]=



In[285]:=

```
SystemModelPlot[simsensdata, {"Population_Dynamics1.Pop_0_14.Integrator1.y",
"Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[7]", percentvar}]
```

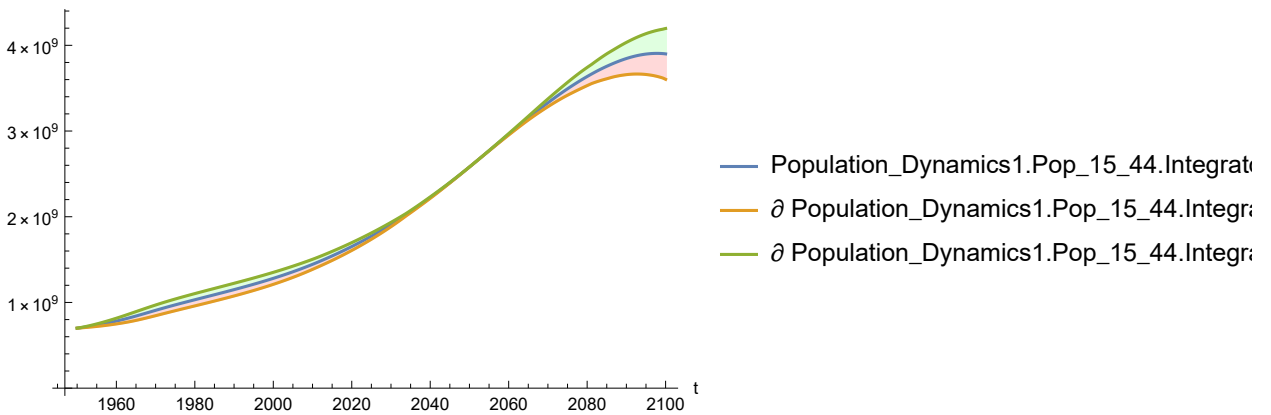
Out[285]=



In[286]:=

```
SystemModelPlot[simsensdata, {"Population_Dynamics1.Pop_15_44.Integrator1.y",
"Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[1]", percentvar}]
```

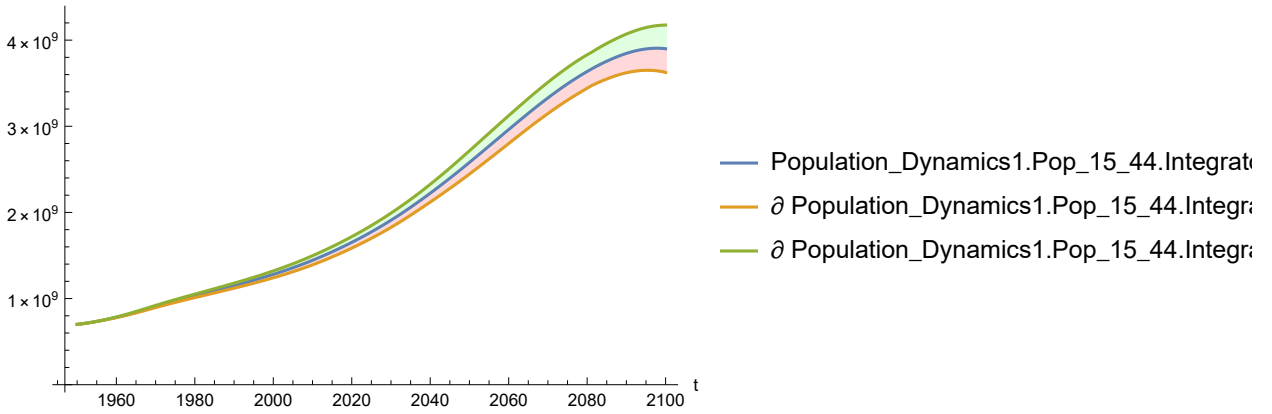
Out[286]=



In[287]:=

```
SystemModelPlot[simsensdata, {"Population_Dynamics1.Pop_15_44.Integrator1.y",
"Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[2]", percentvar}]
```

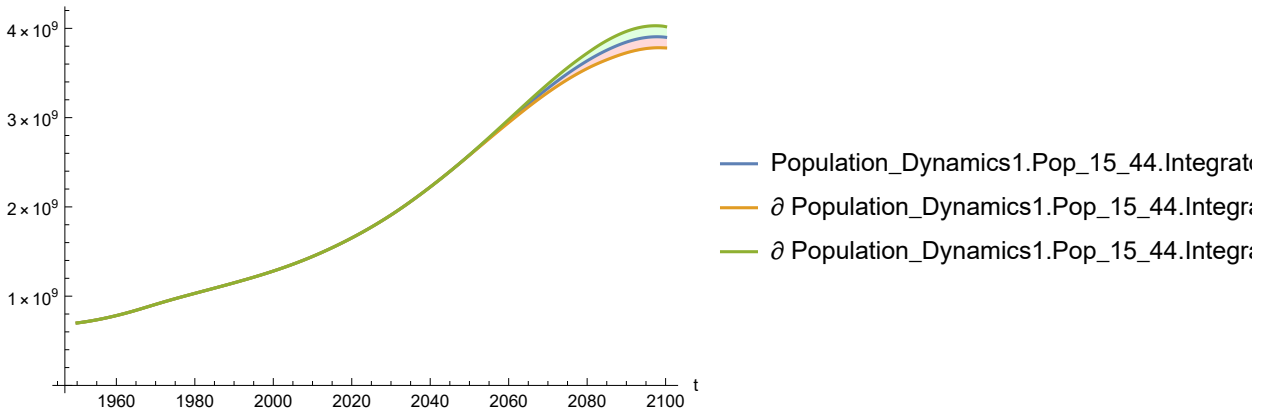
Out[287]=



In[288]:=

```
SystemModelPlot[simsensdata, {"Population_Dynamics1.Pop_15_44.Integrator1.y",
"Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[3]", percentvar}]
```

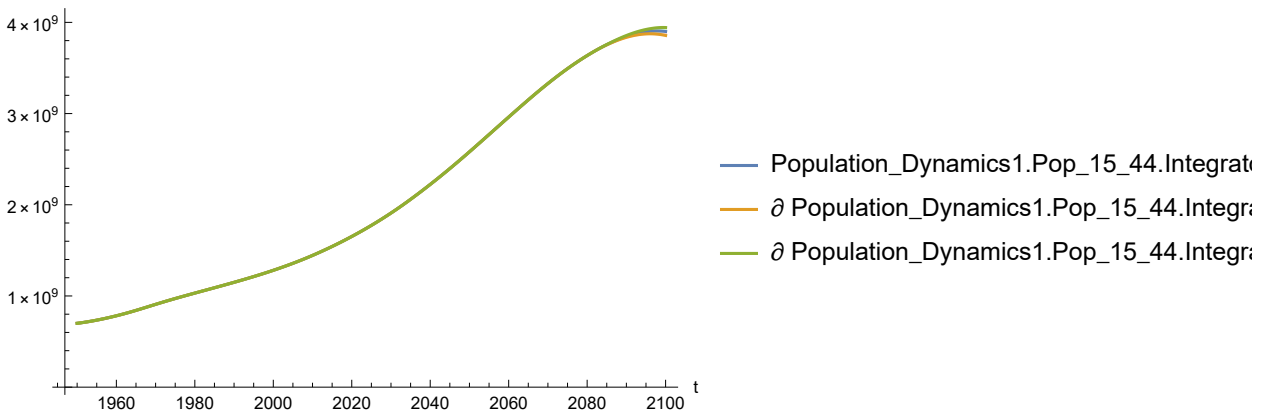
Out[288]=



In[289]:=

```
SystemModelPlot[simsensdata, {"Population_Dynamics1.Pop_15_44.Integrator1.y",
"Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[4]", percentvar}]
```

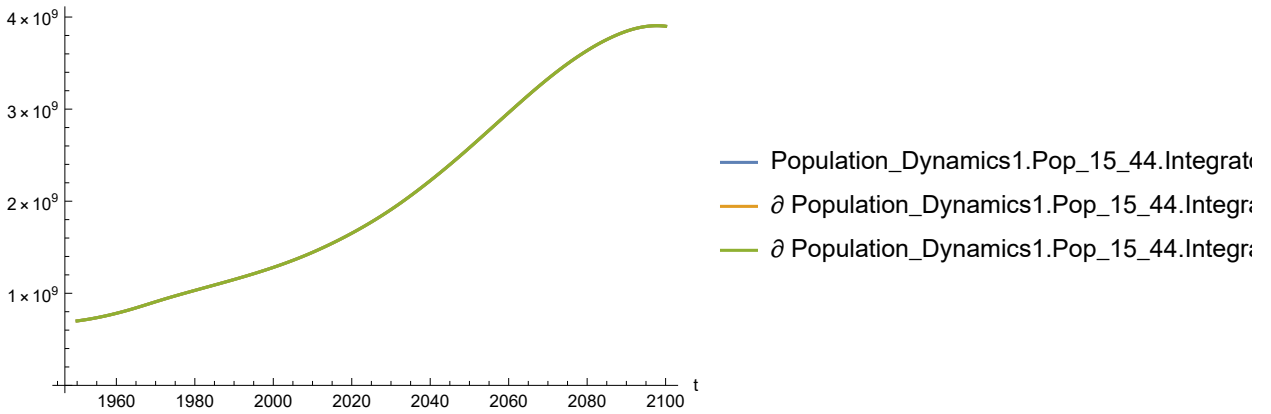
Out[289]=



In[290]:=

```
SystemModelPlot[simsensdata, {"Population_Dynamics1.Pop_15_44.Integrator1.y",
"Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[5]", percentvar}]
```

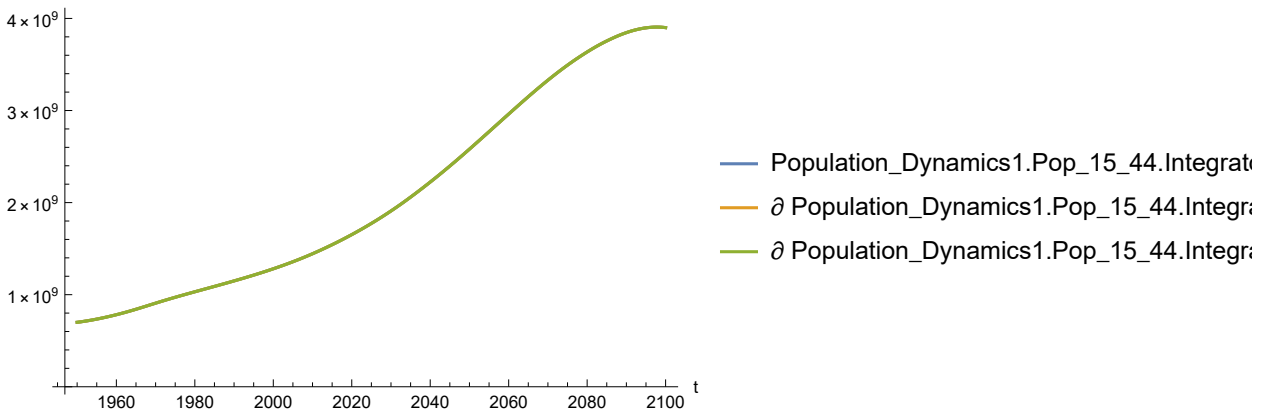
Out[290]=



In[291]:=

```
SystemModelPlot[simsensdata, {"Population_Dynamics1.Pop_15_44.Integrator1.y",
"Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[6]", percentvar}]
```

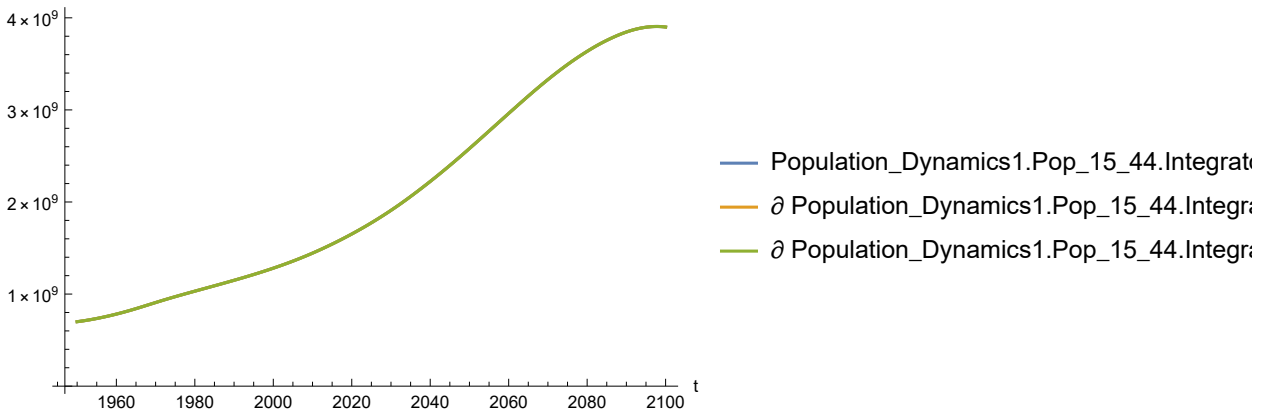
Out[291]=



In[292]:=

```
SystemModelPlot[simsensdata, {"Population_Dynamics1.Pop_15_44.Integrator1.y",
"Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[7]", percentvar}]
```

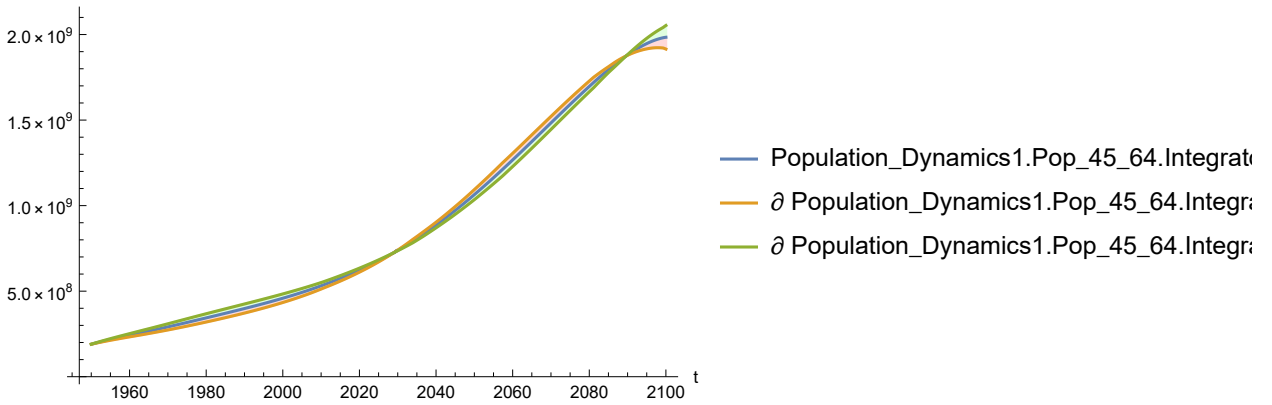
Out[292]=



In[293]:=

```
SystemModelPlot[simsensdata, {"Population_Dynamics1.Pop_45_64.Integrator1.y",
"Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[1]", percentvar}]
```

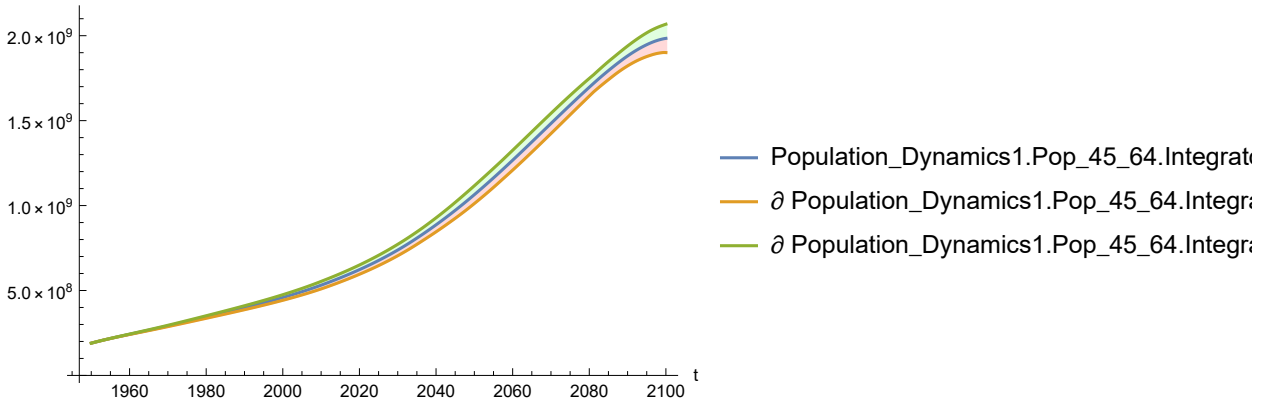
Out[293]=



In[294]:=

```
SystemModelPlot[simsensdata, {"Population_Dynamics1.Pop_45_64.Integrator1.y",
"Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[2]", percentvar}]
```

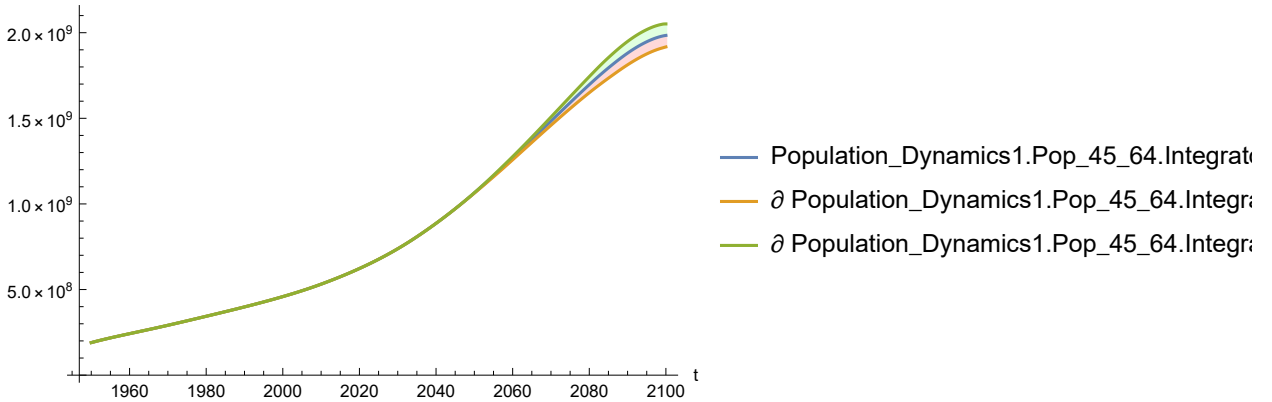
Out[294]=



In[295]:=

```
SystemModelPlot[simsensdata, {"Population_Dynamics1.Pop_45_64.Integrator1.y",
"Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[3]", percentvar}]
```

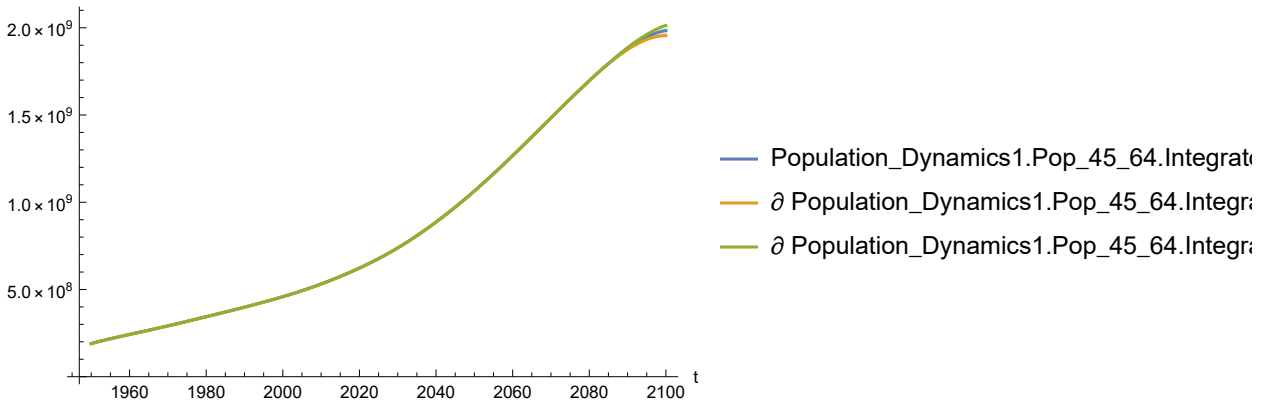
Out[295]=



In[296]:=

```
SystemModelPlot[simsensdata, {"Population_Dynamics1.Pop_45_64.Integrator1.y",
"Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[4]", percentvar}]
```

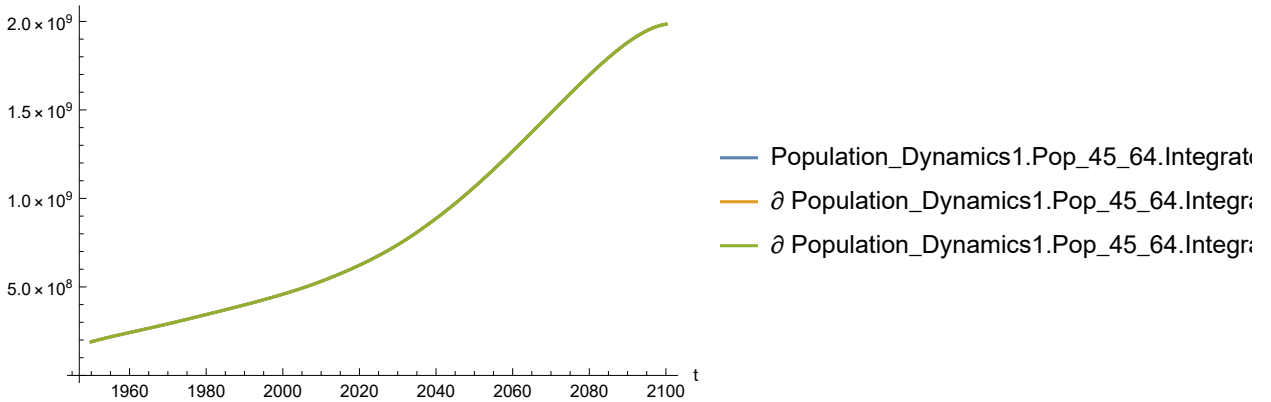
Out[296]=



In[297]:=

```
SystemModelPlot[simsensdata, {"Population_Dynamics1.Pop_45_64.Integrator1.y",
"Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[5]", percentvar}]
```

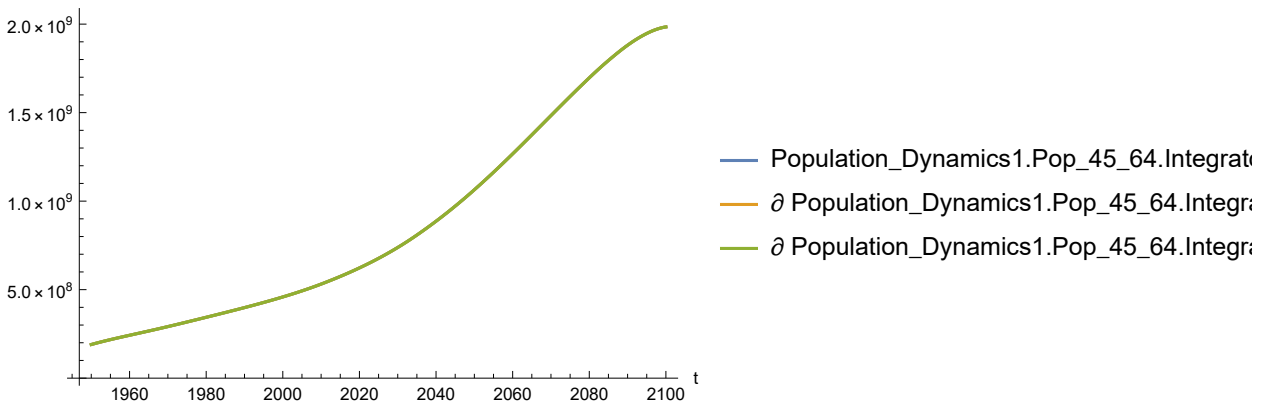
Out[297]=



In[298]:=

```
SystemModelPlot[simsensdata, {"Population_Dynamics1.Pop_45_64.Integrator1.y",
"Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[6]", percentvar}]
```

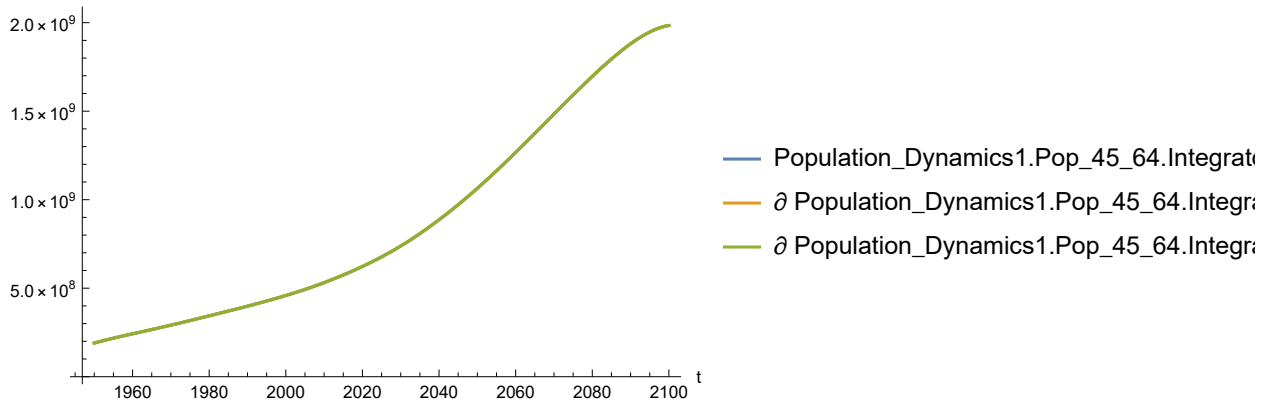
Out[298]=



In[299]:=

```
SystemModelPlot[simsensdata, {"Population_Dynamics1.Pop_45_64.Integrator1.y",
"Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[7]", percentvar}]
```

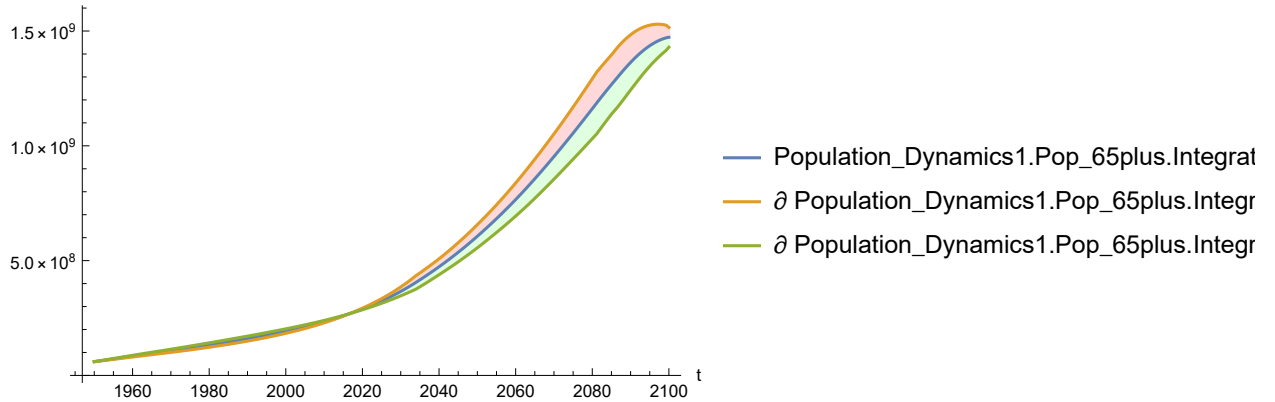
Out[299]=



In[300]:=

```
SystemModelPlot[simsensdata, {"Population_Dynamics1.Pop_65plus.Integrator1.y",
"Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[1]", percentvar}]
```

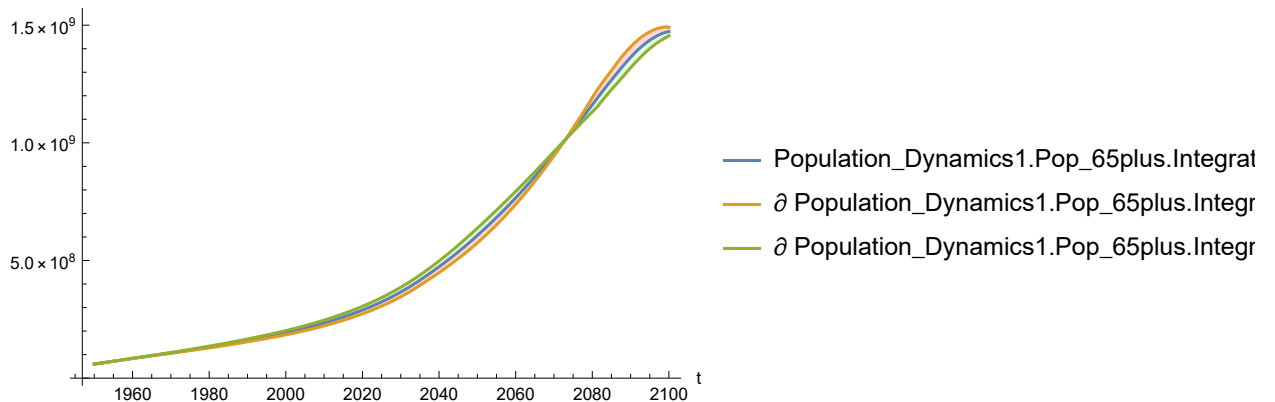
Out[300]=



In[301]:=

```
SystemModelPlot[simsensdata, {"Population_Dynamics1.Pop_65plus.Integrator1.y",
"Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[2]", percentvar}]
```

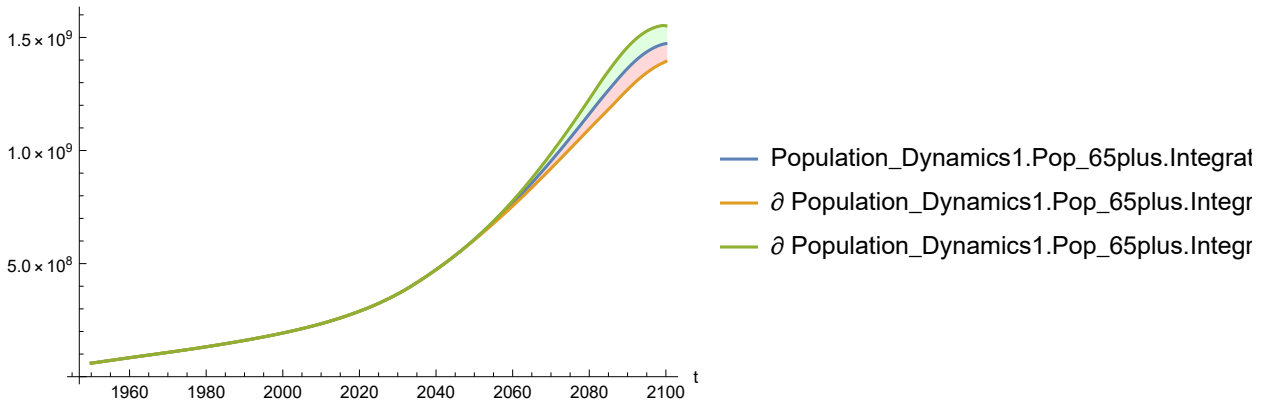
Out[301]=



In[302]:=

```
SystemModelPlot[simsensdata, {"Population_Dynamics1.Pop_65plus.Integrator1.y",
"Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[3]", percentvar}]
```

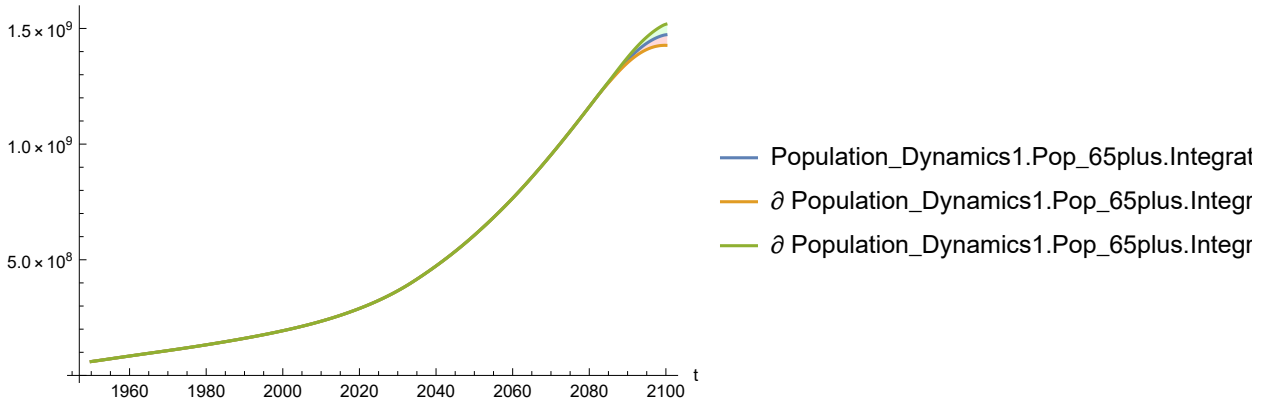
Out[302]=



In[303]:=

```
SystemModelPlot[simsensdata, {"Population_Dynamics1.Pop_65plus.Integrator1.y",
"Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[4]", percentvar}]
```

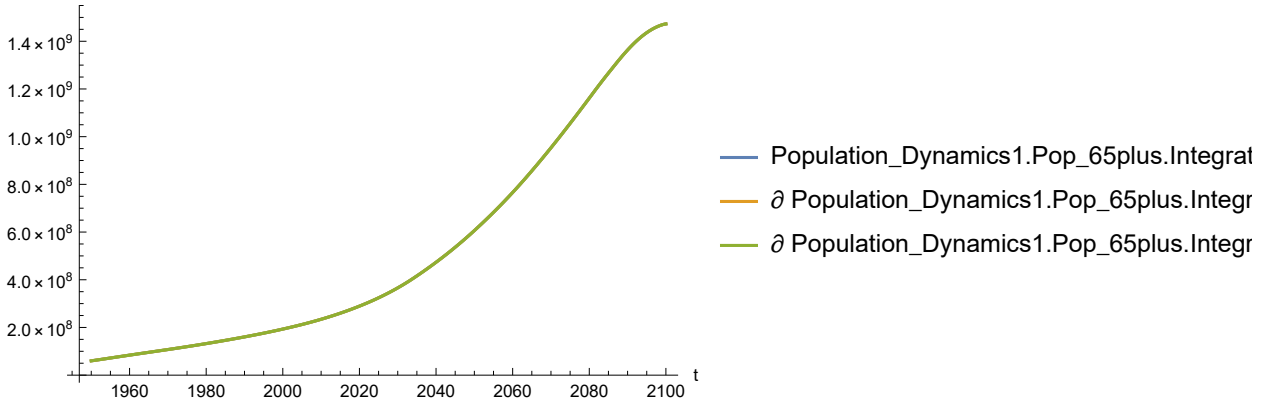
Out[303]=



In[304]:=

```
SystemModelPlot[simsensdata, {"Population_Dynamics1.Pop_65plus.Integrator1.y",
"Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[5]", percentvar}]
```

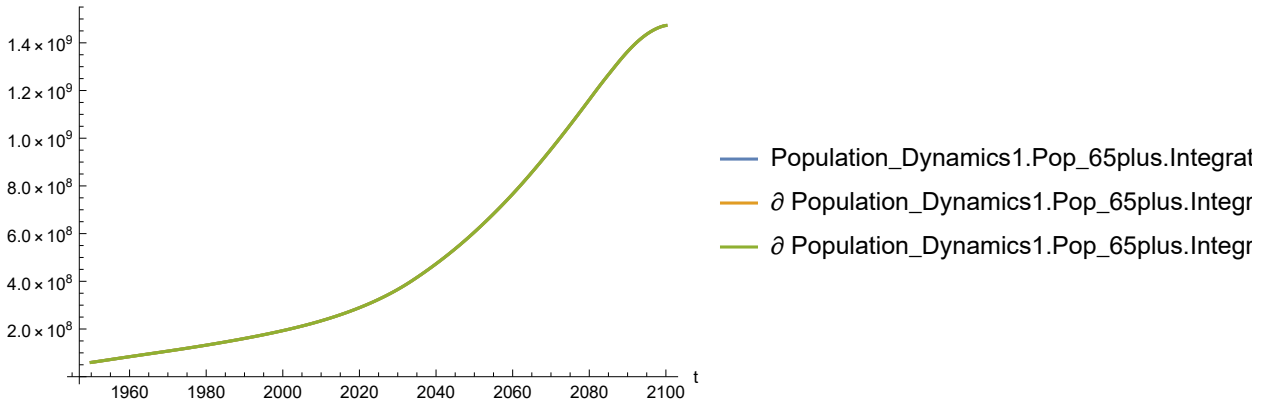
Out[304]=



In[305]:=

```
SystemModelPlot[simsensdata, {"Population_Dynamics1.Pop_65plus.Integrator1.y",
"Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[6]", percentvar}]
```

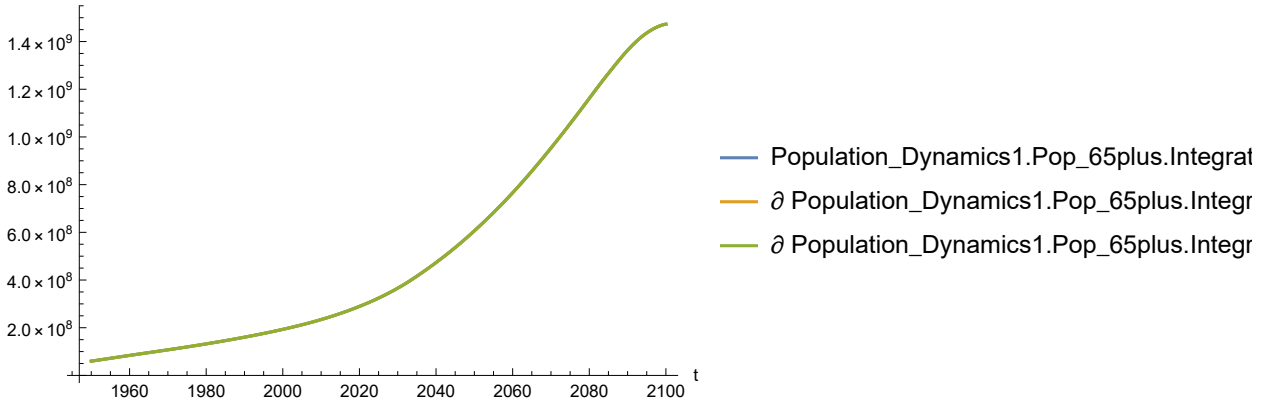
Out[305]=



In[306]:=

```
SystemModelPlot[simsensdata, {"Population_Dynamics1.Pop_65plus.Integrator1.y",
"Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[7]", percentvar}]
```

Out[306]=

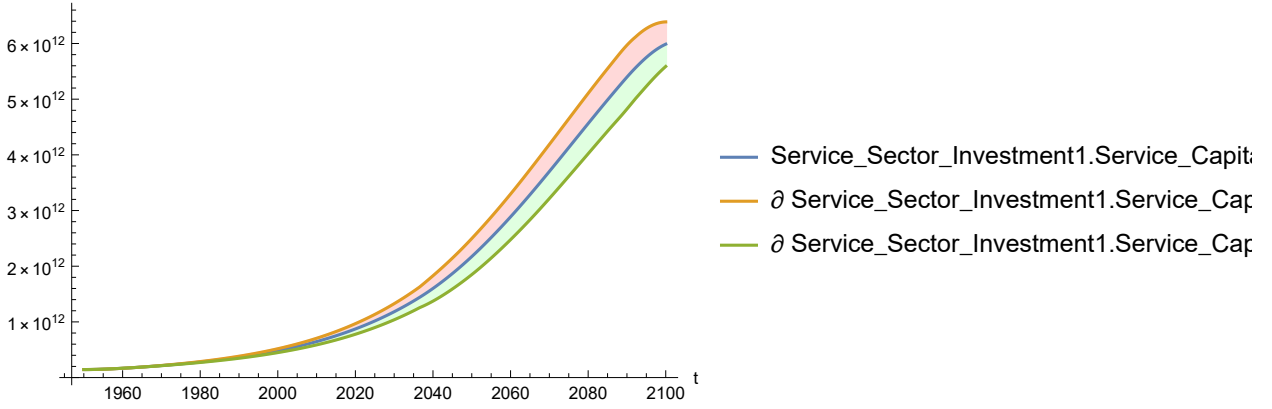


Plot sensitivity of Service_Sector_Investment1.Service_Capital.Integrator1.y to Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals.

In[307]:=

```
SystemModelPlot[simsensdata,
  {"Service_Sector_Investment1.Service_Capital.Integrator1.y",
   "Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[1]", percentvar}]
```

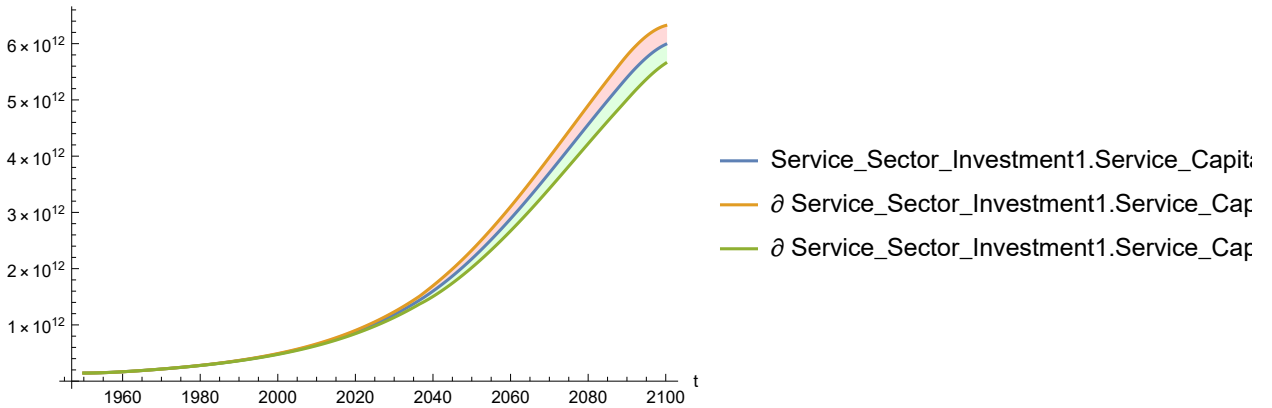
Out[307]=



In[308]:=

```
SystemModelPlot[simsensdata,
  {"Service_Sector_Investment1.Service_Capital.Integrator1.y",
   "Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[2]", percentvar}]
```

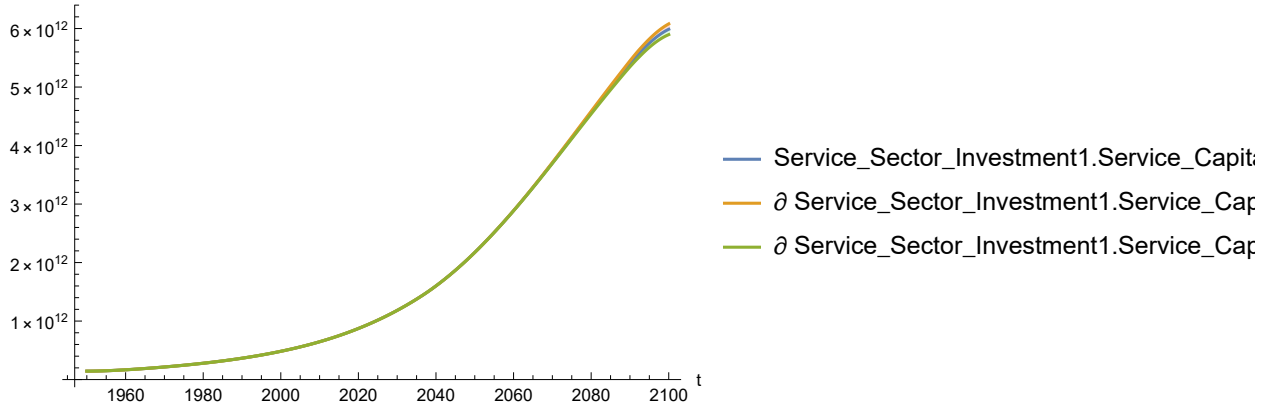
Out[308]=



In[309]:=

```
SystemModelPlot[simsensdata,
  {"Service_Sector_Investment1.Service_Capital.Integrator1.y",
   "Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[3]", percentvar}]
```

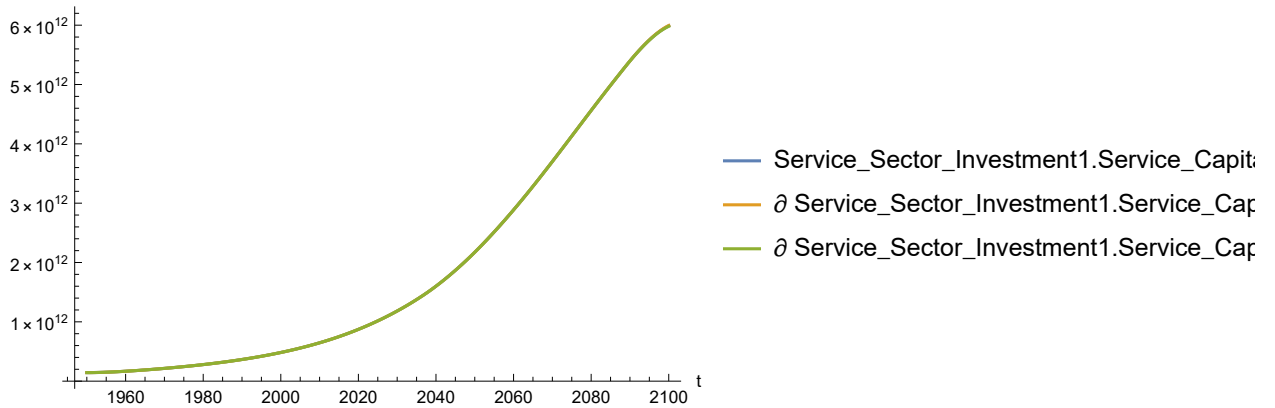
Out[309]=



In[310]:=

```
SystemModelPlot[simsensdata,
  {"Service_Sector_Investment1.Service_Capital.Integrator1.y",
   "Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[4]", percentvar}]
```

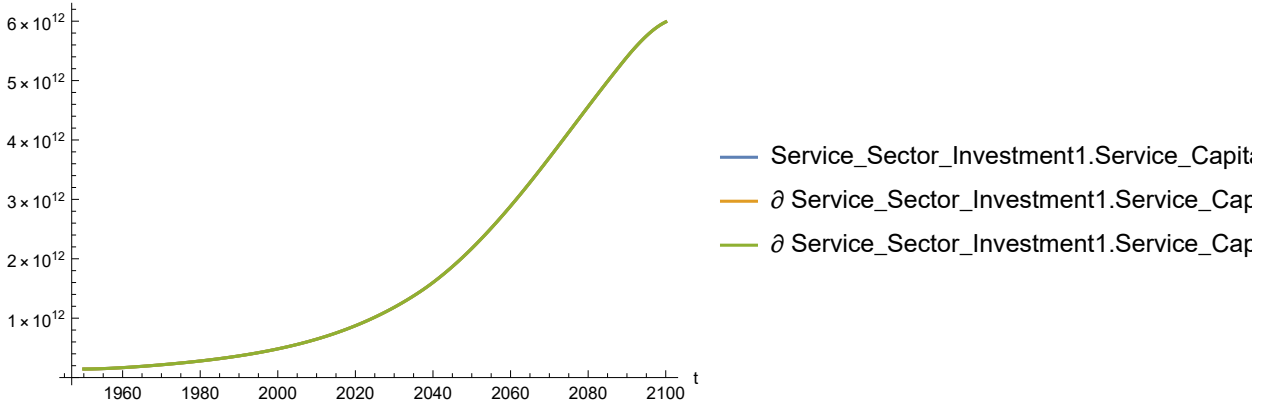
Out[310]=



In[311]:=

```
SystemModelPlot[simsensdata,
  {"Service_Sector_Investment1.Service_Capital.Integrator1.y",
   "Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[5]", percentvar}]
```

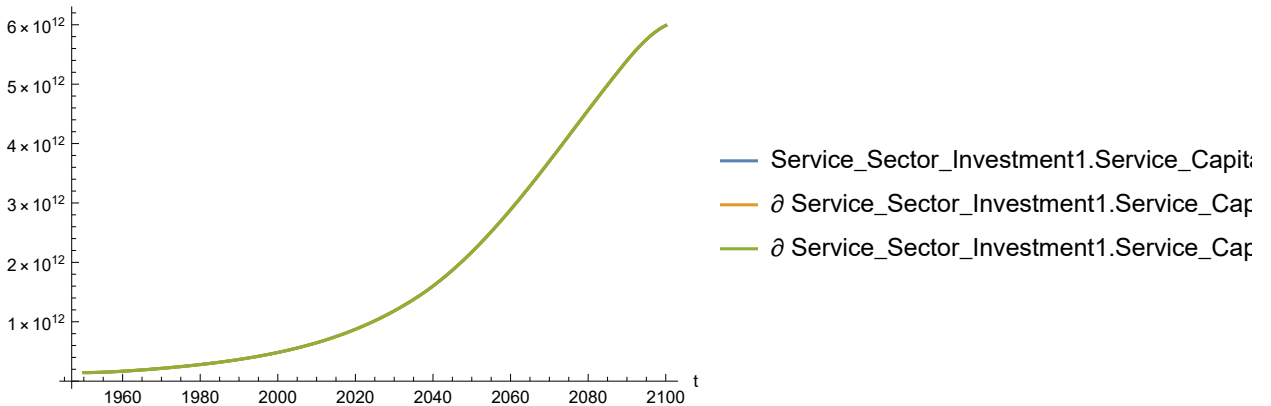
Out[311]=



In[312]:=

```
SystemModelPlot[simsensdata,
  {"Service_Sector_Investment1.Service_Capital.Integrator1.y",
   "Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[6]", percentvar}]
```

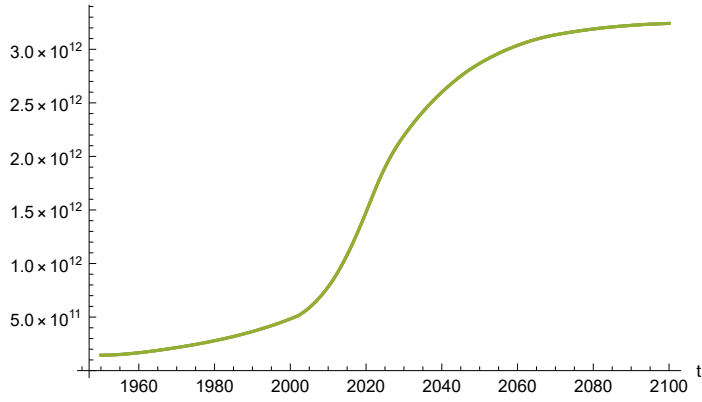
Out[312]=



In[313]:=

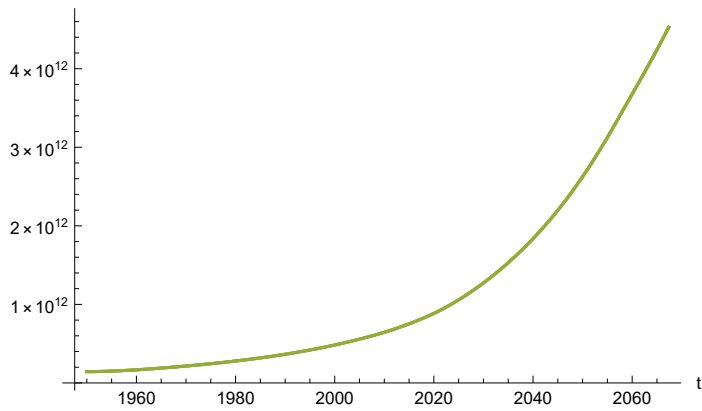
```
SystemModelPlot[simsensdata,
  {"Service_Sector_Investment1.Service_Capital.Integrator1.y",
   "Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[7]", percentvar}]
```


Out[*]=



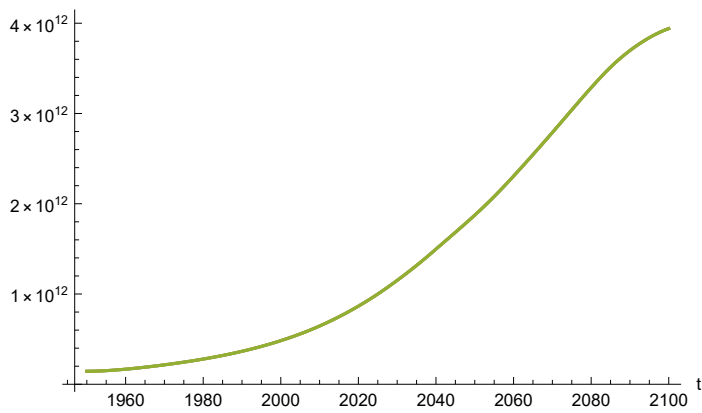
- Service_Sector_Investment1.Service_Capit
- ∂ Service_Sector_Investment1.Service_Capit
- ∂ Service_Sector_Investment1.Service_Capit

Out[*]=



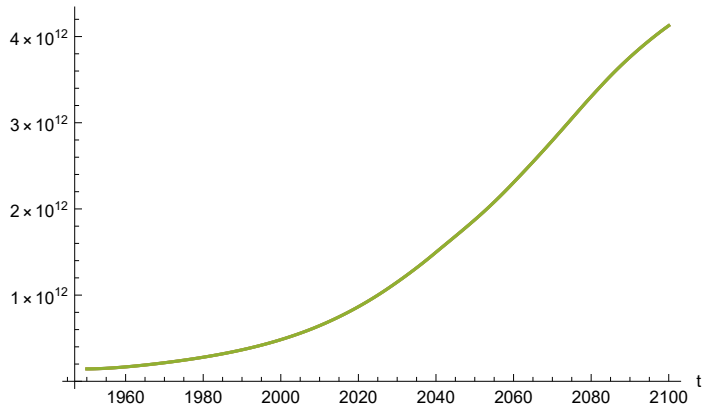
- Service_Sector_Investment1.Service_Capit
- ∂ Service_Sector_Investment1.Service_Capit
- ∂ Service_Sector_Investment1.Service_Capit

Out[*]=



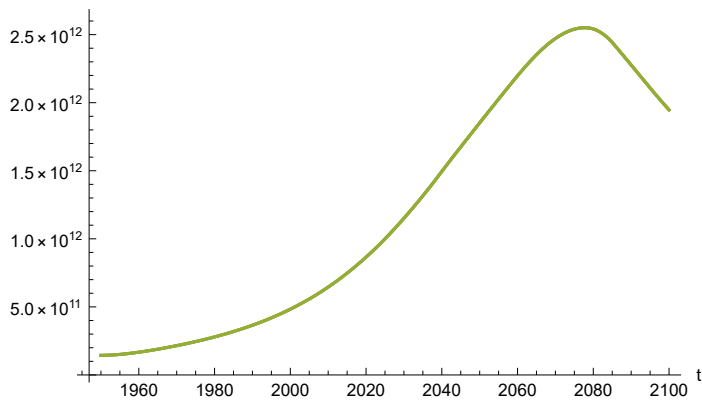
- Service_Sector_Investment1.Service_Capit
- ∂ Service_Sector_Investment1.Service_Capit
- ∂ Service_Sector_Investment1.Service_Capit

Out[*]=



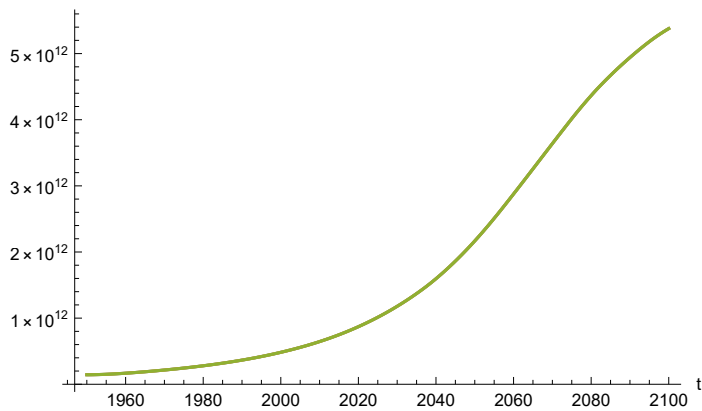
- Service_Sector_Investment1.Service_Capit:
- ∂ Service_Sector_Investment1.Service_Cap:
- ∂ Service_Sector_Investment1.Service_Cap:

Out[*]=



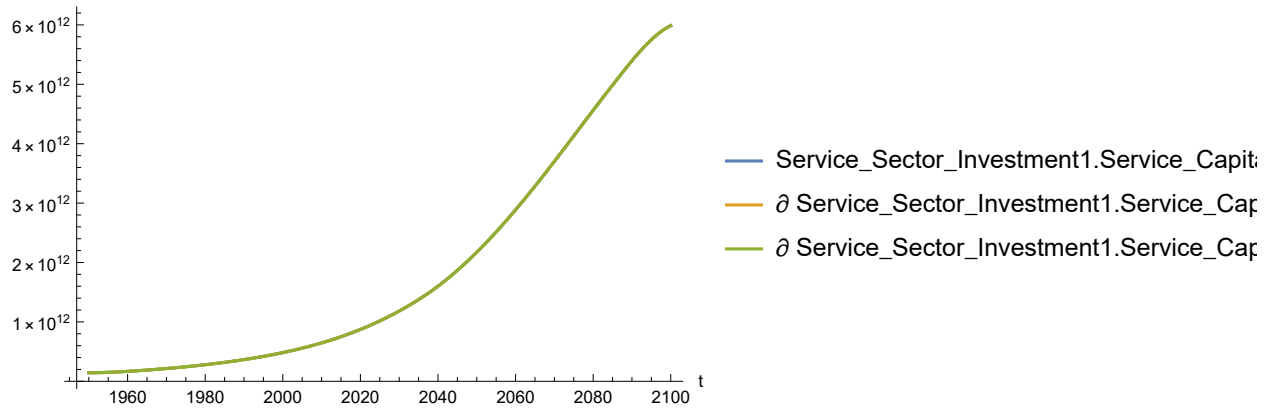
- Service_Sector_Investment1.Service_Capit:
- ∂ Service_Sector_Investment1.Service_Cap:
- ∂ Service_Sector_Investment1.Service_Cap:

Out[*]=



- Service_Sector_Investment1.Service_Capit:
- ∂ Service_Sector_Investment1.Service_Cap:
- ∂ Service_Sector_Investment1.Service_Cap:

Out[313]=



Appendix 3. Experiment 3. Benchmark Scenario 3. Compute and plot sensitivity of various World3 variables to Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals values.

Last modified: 28 August 2022/1250 US CT.

Author: J. K. Horner
email: jhorner@cybermesa.com

Platform:

Windows 10

Wolfram Mathematica Home Version v13.1, dynamic updating enabled

Wolfram SystemModeler v12.0

Open Modelica v3.2.2

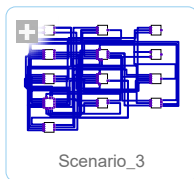
Microsoft Visual C++, version-compatible with the above

Load Benchmark Scenario 3.

In[1]:=

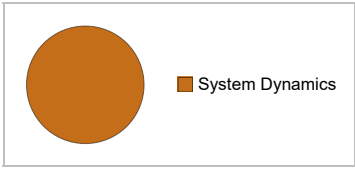
```
mysim = SystemModel["SystemDynamics.WorldDynamics.World3.Scenario_3"]
```

Out[1]:=



Show high-level properties of the scenario.

```
In[2]:= mysummary = mysim["Summary"]
```

	Model	SystemDynamics.WorldDynamics.World3.Scenario_3
	Description	More accessible non-recoverable natural resources and pollution control
	Simulation Interval	True
	Plot	0
	Cells	106
	Background	True
Out[2]=	Simulation Length	265
	Simulation Length	265
	Diagram	

Set percent variation. 0.1 = nominal +/- 10%.

```
In[3]:= percentvar = 0.1
```

```
Out[3]= 0.1
```

Show the default **Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals**.

```
In[4]:= SystemModel[mysim] [
  {"ParameterValues", "Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[1]"}]
```

```
Out[4]= {Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[1] → 1}
```

```
In[5]:= SystemModel[mysim] [
  {"ParameterValues", "Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[2]"}]
```

```
Out[5]= {Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[2] → 1.5}
```

```
In[6]:= SystemModel[mysim] [
  {"ParameterValues", "Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[3]"}]
```

```
Out[6]= {Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[3] → 1.9}
```

```
In[7]:= SystemModel[mysim] [
  {"ParameterValues", "Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[4]"}]
```

```
Out[7]= {Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[4] → 2}
```

```

In[8]:= SystemModel[mysim] [
  {"ParameterValues", "Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[5]"}]
Out[8]= {Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[5] → 2}

In[9]:= SystemModel[mysim] [
  {"ParameterValues", "Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[6]"}]
Out[9]= {Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[6] → 2}

In[10]:= SystemModel[mysim] [
  {"ParameterValues", "Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[7]"}]
Out[10]= {Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[7] → 2}


```

Retrieve all variables that **SystemModelSimulateSensitivity** says depend on **Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals**. Set scenario start at 1950 because various **SystemModel** functions have problems with a step function at scenario time 1940. (This is a World3-specific quirk.)

```

In[11]:= simsensdata = SystemModelSimulateSensitivity[mysim,
  {1950, 2100}, {"Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[1]",
  "Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[2]",
  "Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[3]",
  "Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[4]",
  "Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[5]",
  "Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[6]",
  "Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[7]"}]

```

 **SystemModelSimulateSensitivity**: At time 2002. s: An event occurred while performing sensitivity analysis. This may produce incorrect results depending on your model. Further similar warnings will not be displayed.

Out[11]=

```

SystemModelSimulationData [
   Model: Scenario_3
  Time: 1.95 × 103 to 2.10 × 103 ]

```

Show the names of the World3 variables in **simsensdata** that **SystemModelSimulateSensitivity** recognizes.

```

In[12]:= simsensdata["SensitivityNames"]
Out[12]=
{ {Arable_Land_Dynamics1.Arable_Land.Integrator1.y,
  Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[1] },
  {Arable_Land_Dynamics1.Arable_Land.Integrator1.y,
  Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[2] },
  {Arable_Land_Dynamics1.Arable_Land.Integrator1.y,
  Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[3] },
  {Arable_Land_Dynamics1.Arable_Land.Integrator1.y,
  Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[4] },
  {Arable_Land_Dynamics1.Arable_Land.Integrator1.y,
  Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[5] },

```

```

{Arable_Land_Dynamics1.Arable_Land.Integrator1.y,
 Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[6]},
{Arable_Land_Dynamics1.Arable_Land.Integrator1.y,
 Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[7]},
{Arable_Land_Dynamics1.Pot_Arable_Land.Integrator1.y,
 Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[1]},
{Arable_Land_Dynamics1.Pot_Arable_Land.Integrator1.y,
 Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[2]},
{Arable_Land_Dynamics1.Pot_Arable_Land.Integrator1.y,
 Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[3]},
{Arable_Land_Dynamics1.Pot_Arable_Land.Integrator1.y,
 Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[4]},
{Arable_Land_Dynamics1.Pot_Arable_Land.Integrator1.y,
 Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[5]},
{Arable_Land_Dynamics1.Pot_Arable_Land.Integrator1.y,
 Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[6]},
{Arable_Land_Dynamics1.Pot_Arable_Land.Integrator1.y,
 Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[7]},
{Arable_Land_Dynamics1.Urban_Ind_Land.Integrator1.y,
 Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[1]},
{Arable_Land_Dynamics1.Urban_Ind_Land.Integrator1.y,
 Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[2]},
{Arable_Land_Dynamics1.Urban_Ind_Land.Integrator1.y,
 Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[3]},
{Arable_Land_Dynamics1.Urban_Ind_Land.Integrator1.y,
 Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[4]},
{Arable_Land_Dynamics1.Urban_Ind_Land.Integrator1.y,
 Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[5]},
{Arable_Land_Dynamics1.Urban_Ind_Land.Integrator1.y,
 Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[6]},
{Arable_Land_Dynamics1.Urban_Ind_Land.Integrator1.y,
 Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[7]},
{Food_Production1.Agr_Inp.Integrator1.y,
 Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[1]},
{Food_Production1.Agr_Inp.Integrator1.y,
 Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[2]},
{Food_Production1.Agr_Inp.Integrator1.y,
 Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[3]},
{Food_Production1.Agr_Inp.Integrator1.y,
 Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[4]},
{Food_Production1.Agr_Inp.Integrator1.y,
 Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[5]},
{Food_Production1.Agr_Inp.Integrator1.y,
 Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[6]},
{Food_Production1.Agr_Inp.Integrator1.y,
 Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[7]},
{Food_Production1.P_Land_Yield_Fact_2.Smooth1.Integrator1.y,

```

```

Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[1]},
{Food_Production1.P_Land_Yield_Fact_2.Smooth1.Integrator1.y,
Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[2]},
{Food_Production1.P_Land_Yield_Fact_2.Smooth1.Integrator1.y,
Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[3]},
{Food_Production1.P_Land_Yield_Fact_2.Smooth1.Integrator1.y,
Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[4]},
{Food_Production1.P_Land_Yield_Fact_2.Smooth1.Integrator1.y,
Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[5]},
{Food_Production1.P_Land_Yield_Fact_2.Smooth1.Integrator1.y,
Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[6]},
{Food_Production1.P_Land_Yield_Fact_2.Smooth1.Integrator1.y,
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Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[3]},
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Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[4]},
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Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[3]},
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Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[6]},
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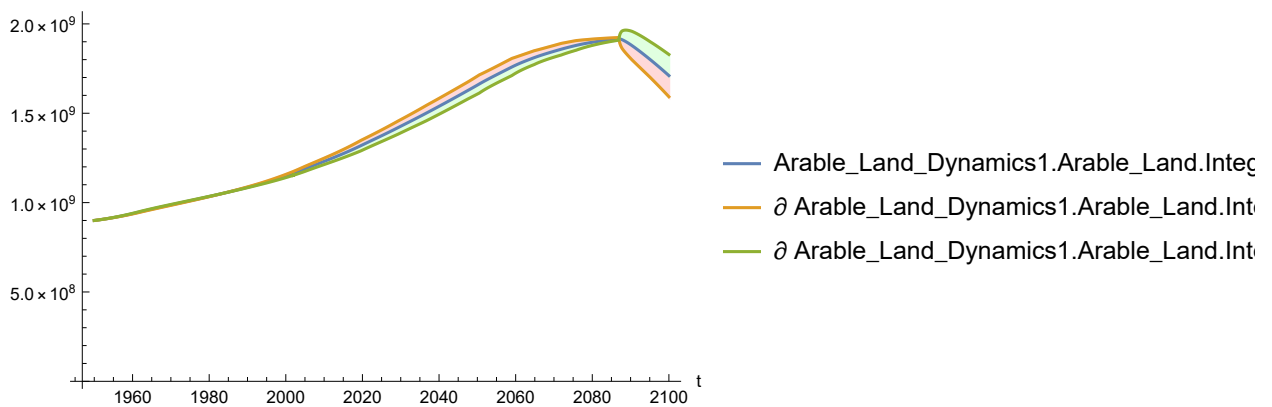
```

Programming note: in Mathematica, the following list of **SystemModelPlot** instructions could be replaced by a loop or iteration construct that cycles over **simsensdata**. The resulting source code would be elegant, but upon execution it turns out to have dynamic updating issues that the Platform described above does not handle well.

Plot the sensitivity of `Arable_Land_Dynamics1.Arable_Land.Integrator1.y` to `Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals`.

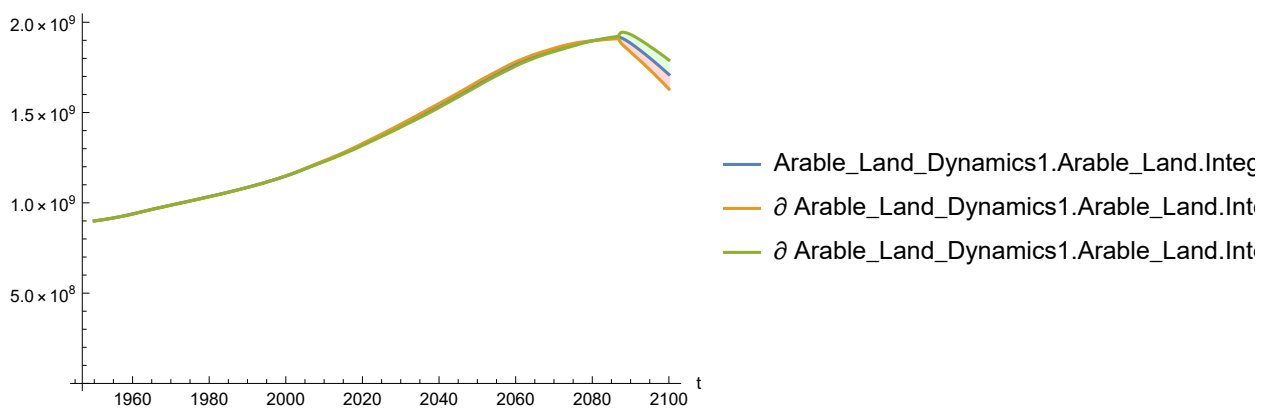
```
In[13]:= SystemModelPlot[simsensdata, {"Arable_Land_Dynamics1.Arable_Land.Integrator1.y",
  "Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[1]", percentvar}]
```

Out[13]=



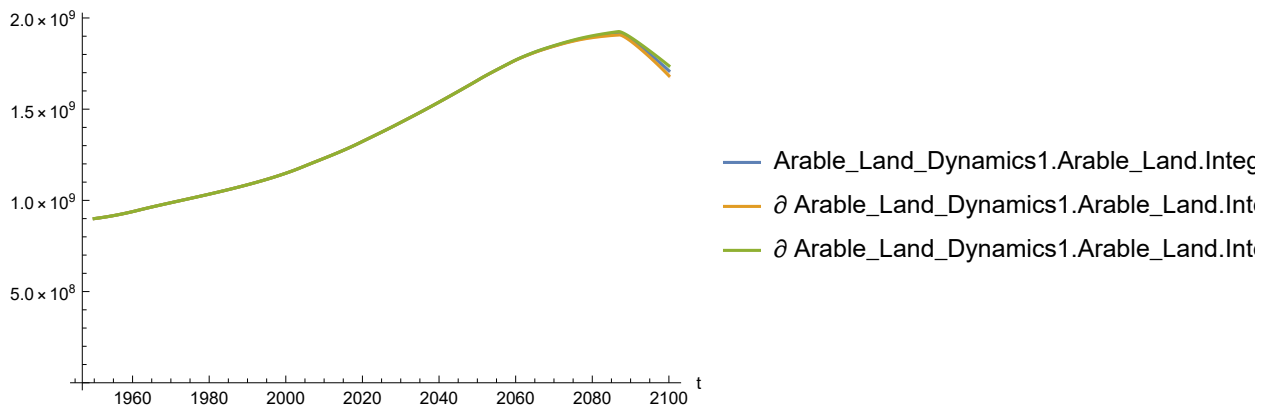
```
In[14]:= SystemModelPlot[simsensdata, {"Arable_Land_Dynamics1.Arable_Land.Integrator1.y",
  "Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[2]", percentvar}]
```

Out[14]=



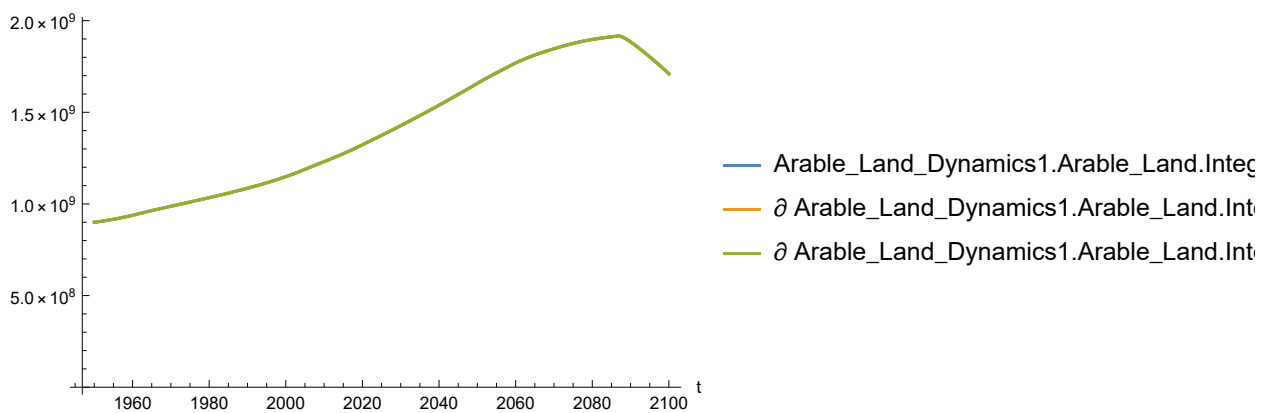
```
In[15]:= SystemModelPlot[simsensdata, {"Arable_Land_Dynamics1.Arable_Land.Integrator1.y",
"Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[3]", percentvar}]
```

Out[15]=



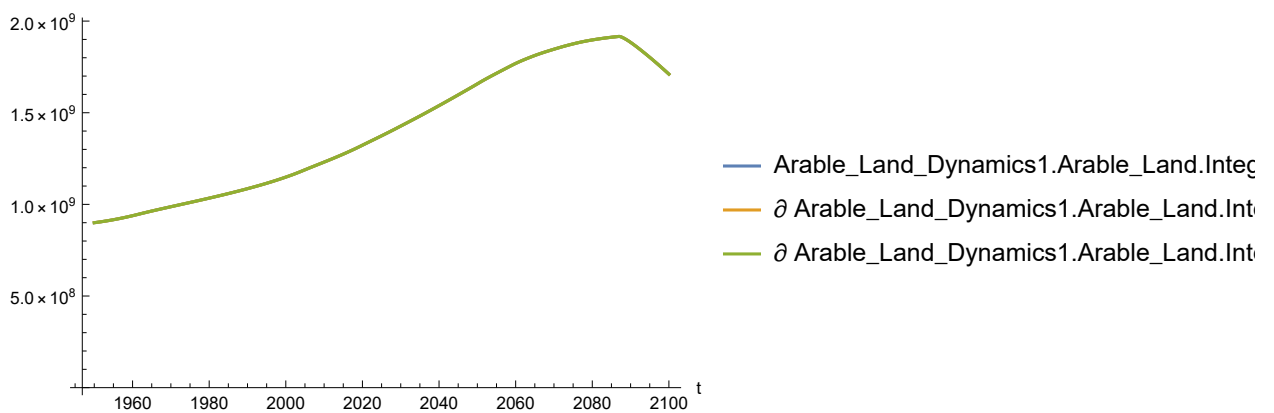
```
In[16]:= SystemModelPlot[simsensdata, {"Arable_Land_Dynamics1.Arable_Land.Integrator1.y",
"Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[4]", percentvar}]
```

Out[16]=



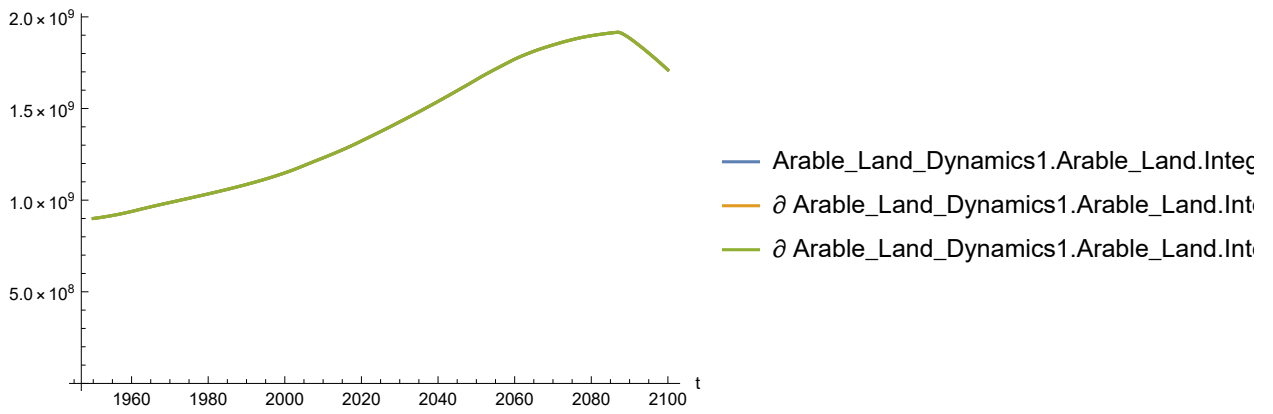
```
In[17]:= SystemModelPlot[simsensdata, {"Arable_Land_Dynamics1.Arable_Land.Integrator1.y",
"Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[5]", percentvar}]
```

Out[17]=



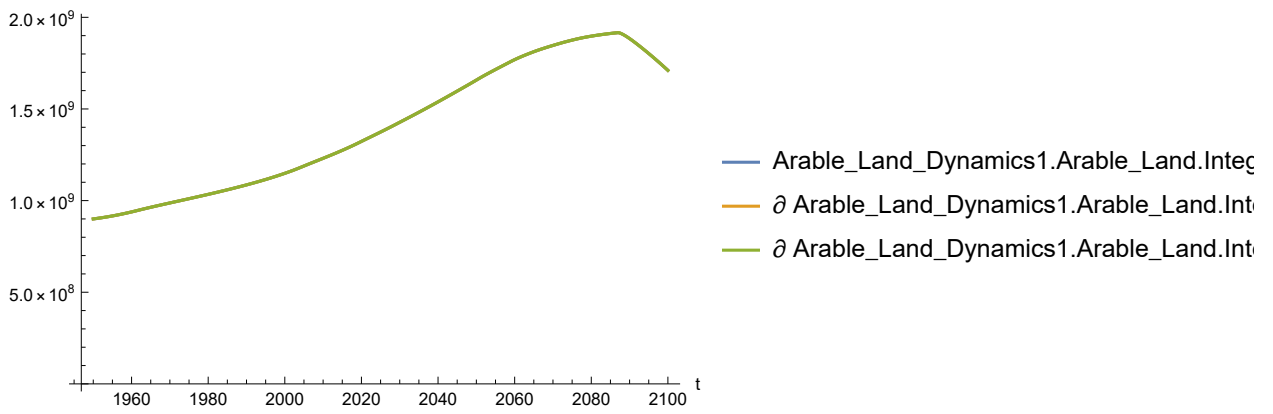
```
In[18]:= SystemModelPlot[simsensdata, {"Arable_Land_Dynamics1.Arable_Land.Integrator1.y",
"Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[6]", percentvar}]
```

Out[18]=



```
In[19]:= SystemModelPlot[simsensdata, {"Arable_Land_Dynamics1.Arable_Land.Integrator1.y",
"Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[7]", percentvar}]
```

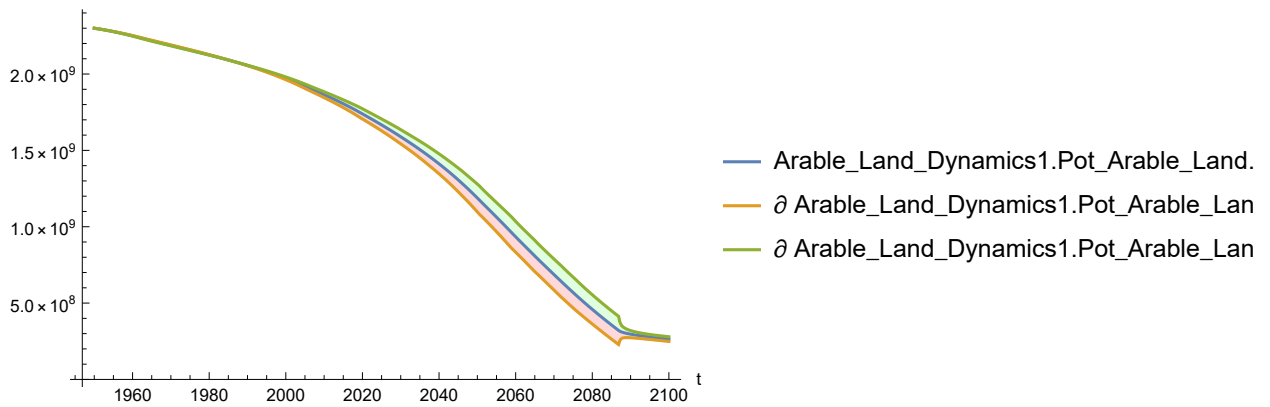
Out[19]=



Plot the sensitivity of `Arable_Land_Dynamics1.Pot_Arable_Land.Integrator1.y` to `Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals`.

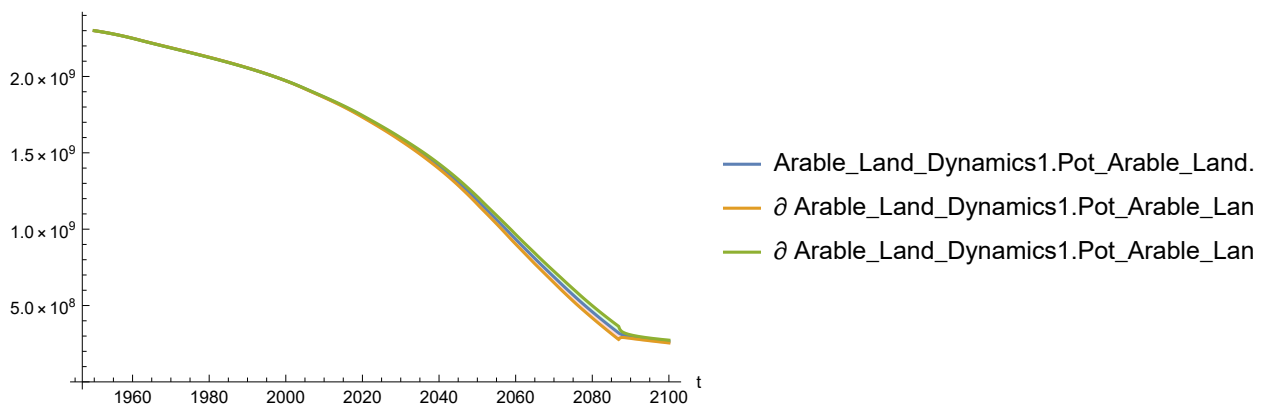
```
In[20]:= SystemModelPlot[simsensdata, {"Arable_Land_Dynamics1.Pot_Arable_Land.Integrator1.y",
"Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[1]", percentvar}]
```

Out[20]=



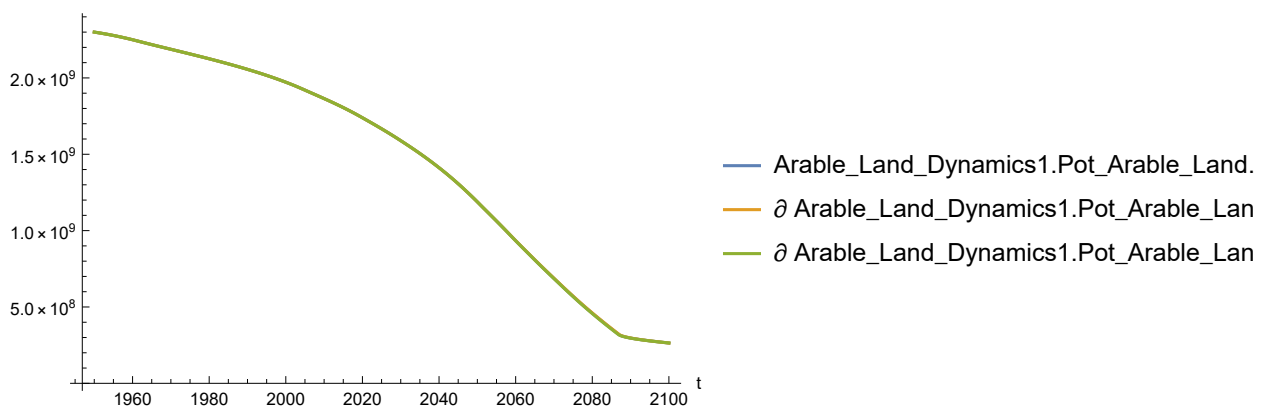
```
In[21]:= SystemModelPlot[simsensdata, {"Arable_Land_Dynamics1.Pot_Arable_Land.Integrator1.y",
"Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[2]", percentvar}]
```

Out[21]=



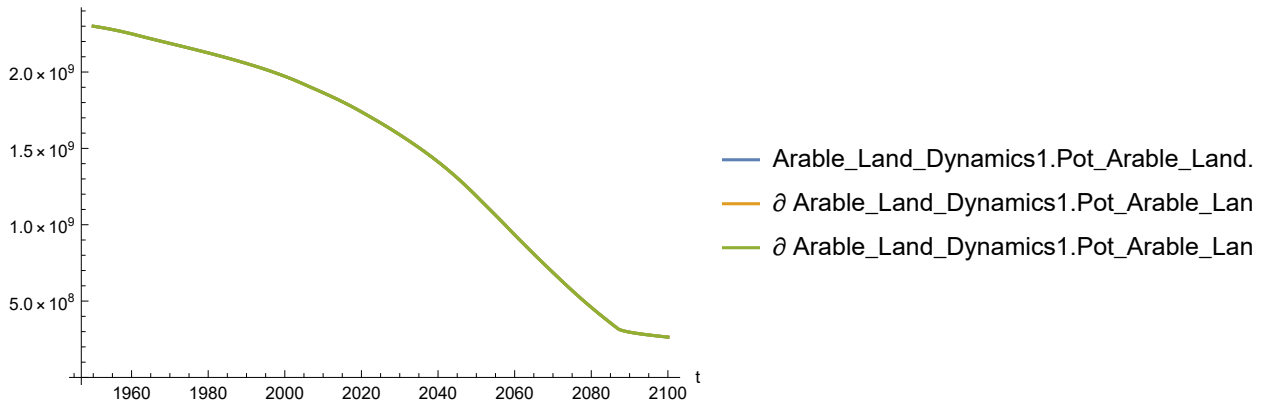
```
In[22]:= SystemModelPlot[simsensdata, {"Arable_Land_Dynamics1.Pot_Arable_Land.Integrator1.y",
"Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[3]", percentvar}]
```

Out[22]=



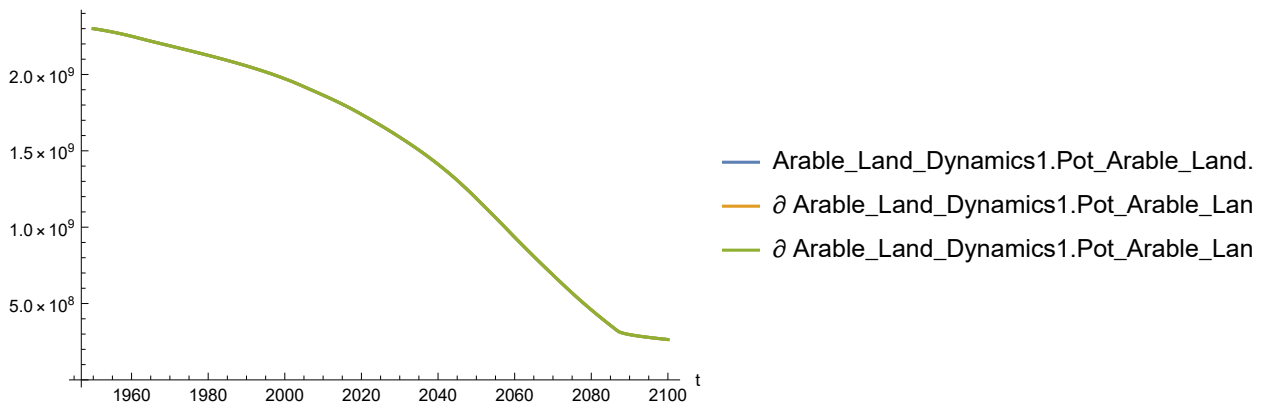
```
In[23]:= SystemModelPlot[simsensdata, {"Arable_Land_Dynamics1.Pot_Arable_Land.Integrator1.y",
"Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[4]", percentvar}]
```

Out[23]=



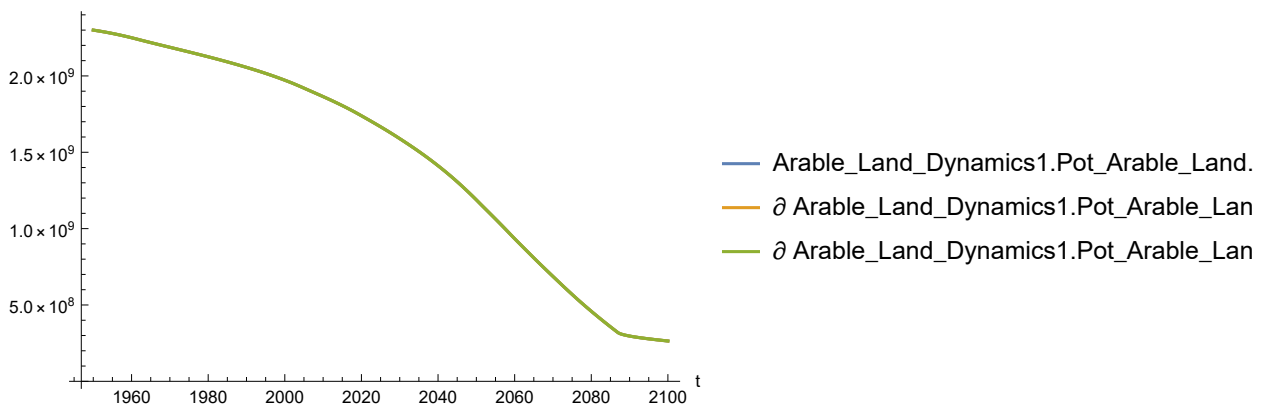
```
In[24]:= SystemModelPlot[simsensdata, {"Arable_Land_Dynamics1.Pot_Arable_Land.Integrator1.y",
"Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[5]", percentvar}]
```

Out[24]=



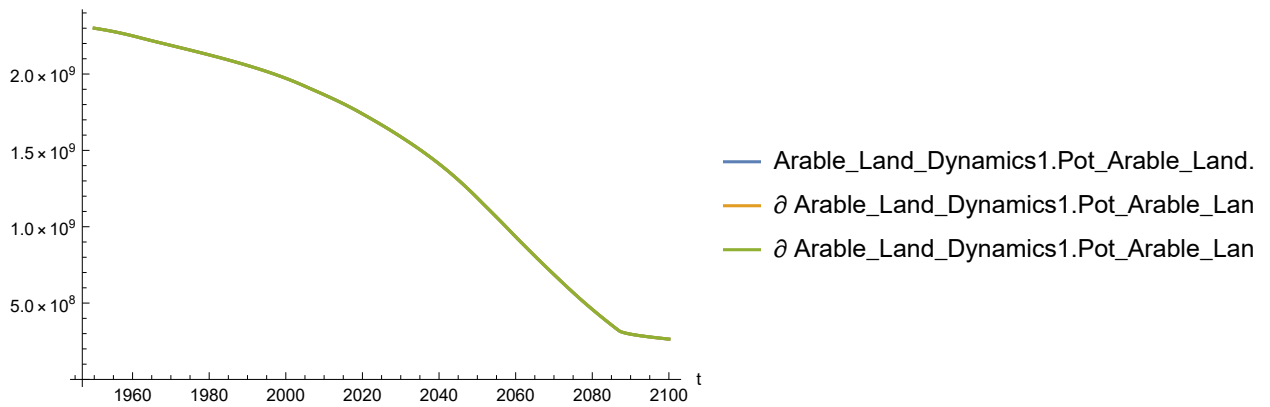
```
In[25]:= SystemModelPlot[simsensdata, {"Arable_Land_Dynamics1.Pot_Arable_Land.Integrator1.y",
"Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[6]", percentvar}]
```

Out[25]=



```
In[26]:= SystemModelPlot[simsensdata, {"Arable_Land_Dynamics1.Pot_Arable_Land.Integrator1.y",
"Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[7]", percentvar}]
```

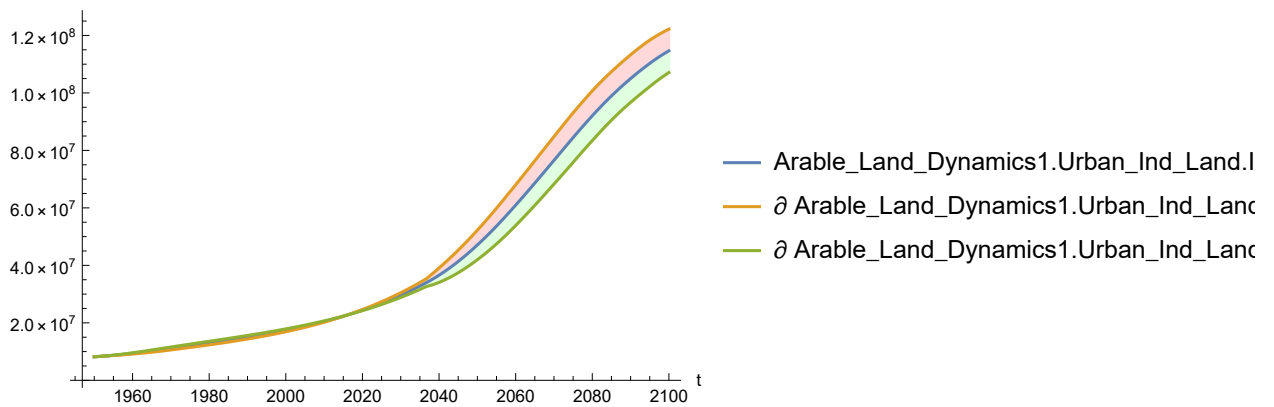
Out[26]=



Plot the sensitivity of Arable_Land_Dynamics1.Urban_Ind_Land.Integrator1.y to Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals.

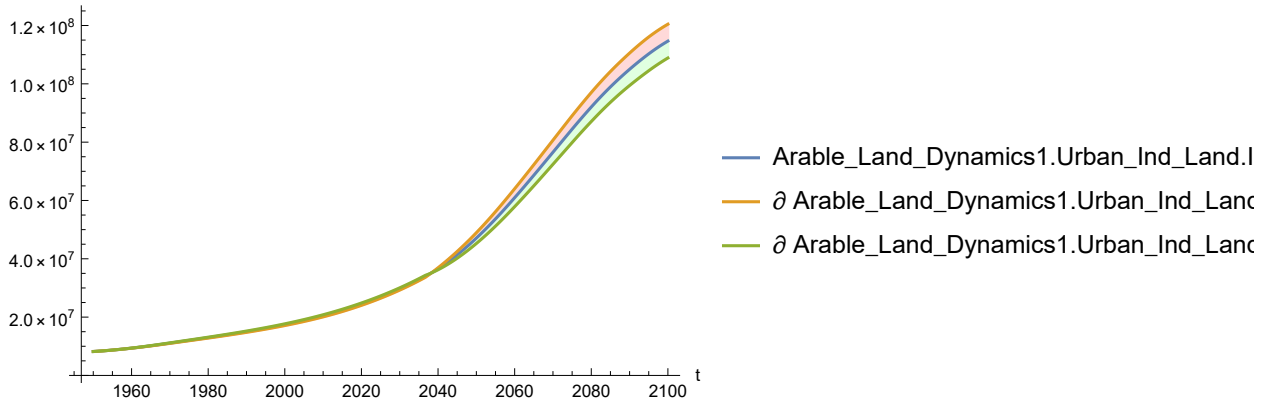
```
In[27]:= SystemModelPlot[simsensdata, {"Arable_Land_Dynamics1.Urban_Ind_Land.Integrator1.y",
"Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[1]", percentvar}]
```

Out[27]=



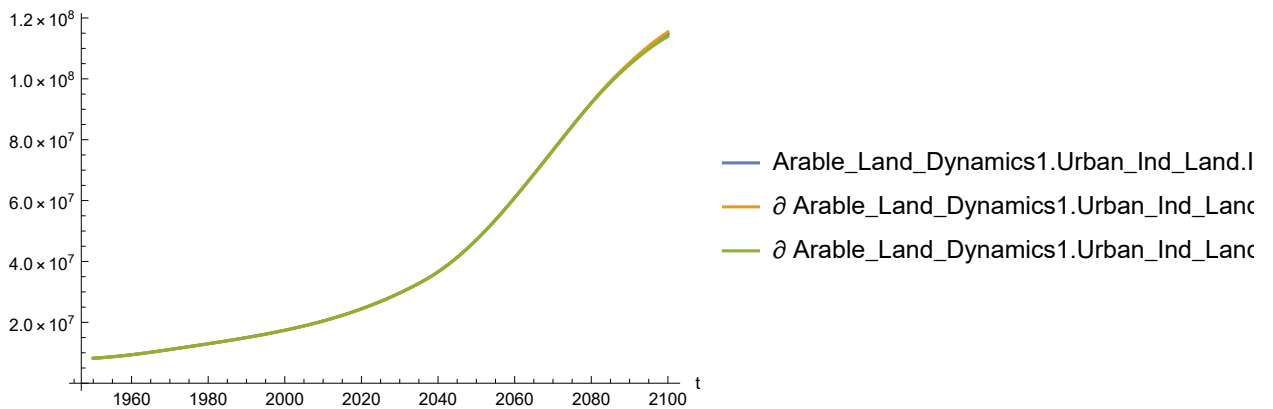

```
In[28]:= SystemModelPlot[simsensdata, {"Arable_Land_Dynamics1.Urban_Ind_Land.Integrator1.y",
"Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[2]", percentvar}]
```

Out[28]=



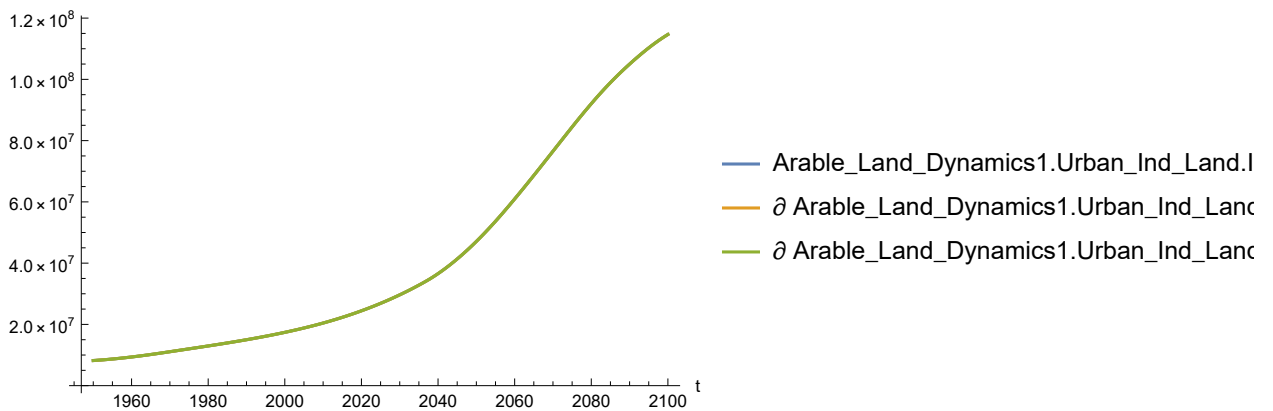
```
In[29]:= SystemModelPlot[simsensdata, {"Arable_Land_Dynamics1.Urban_Ind_Land.Integrator1.y",
"Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[3]", percentvar}]
```

Out[29]=



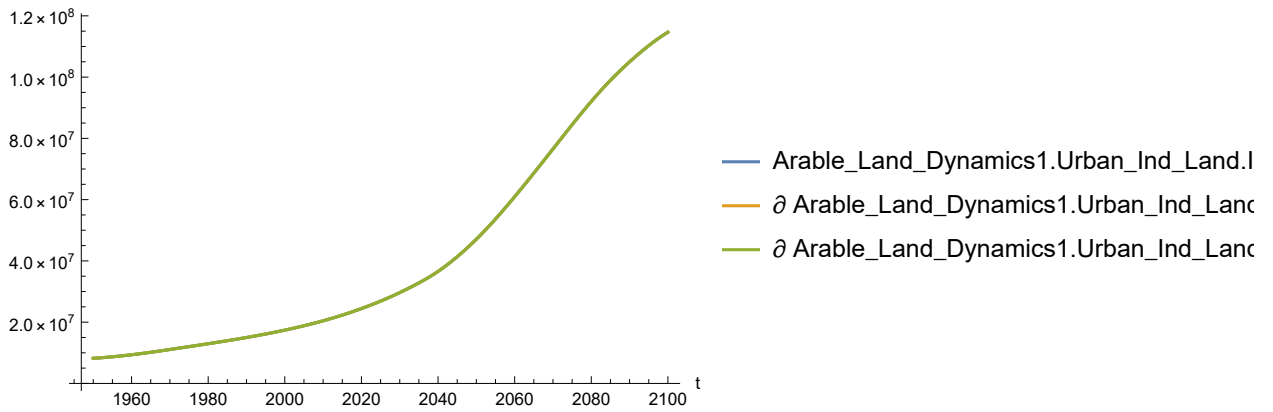
```
In[30]:= SystemModelPlot[simsensdata, {"Arable_Land_Dynamics1.Urban_Ind_Land.Integrator1.y",
"Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[4]", percentvar}]
```

Out[30]=



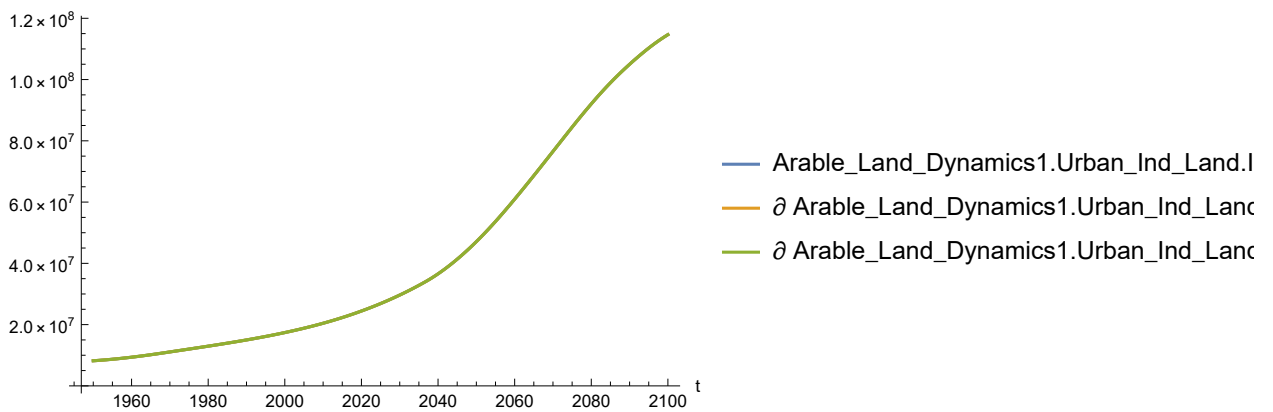
```
In[31]:= SystemModelPlot[simsensdata, {"Arable_Land_Dynamics1.Urban_Ind_Land.Integrator1.y",
"Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[5]", percentvar}]
```

Out[31]=



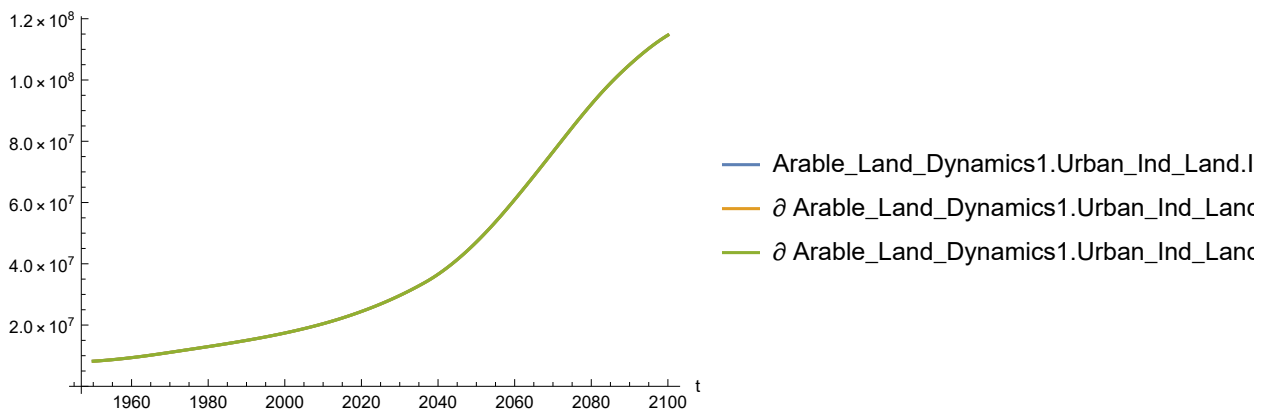
```
In[32]:= SystemModelPlot[simsensdata, {"Arable_Land_Dynamics1.Urban_Ind_Land.Integrator1.y",
"Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[6]", percentvar}]
```

Out[32]=



```
In[33]:= SystemModelPlot[simsensdata, {"Arable_Land_Dynamics1.Urban_Ind_Land.Integrator1.y",
"Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[7]", percentvar}]
```

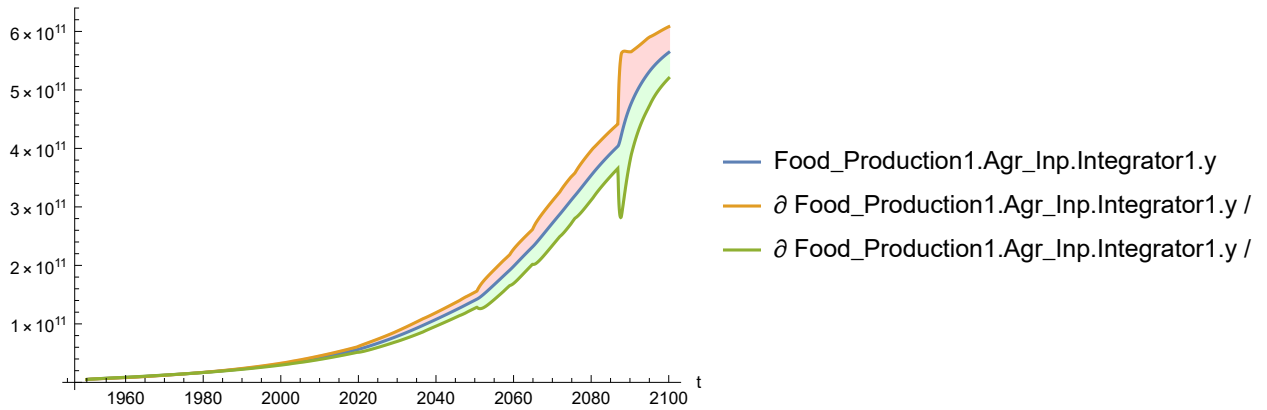
Out[33]=



Plot sensitivity of Food_Production.Agr_Inp.Integrator1.y to **Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals**.

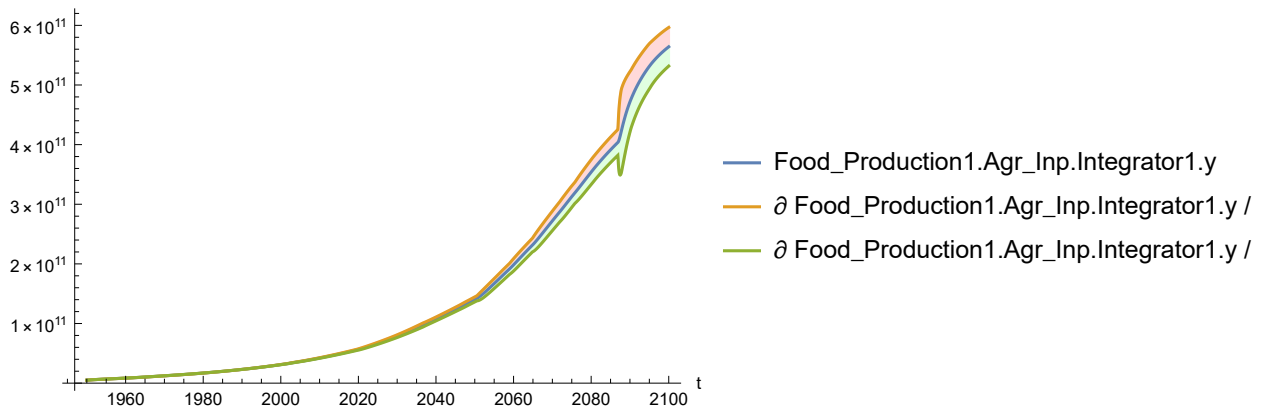
```
In[34]:= SystemModelPlot[simsensdata, {"Food_Production1.Agr_Inp.Integrator1.y",
  "Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[1]", percentvar}]
```

Out[34]=



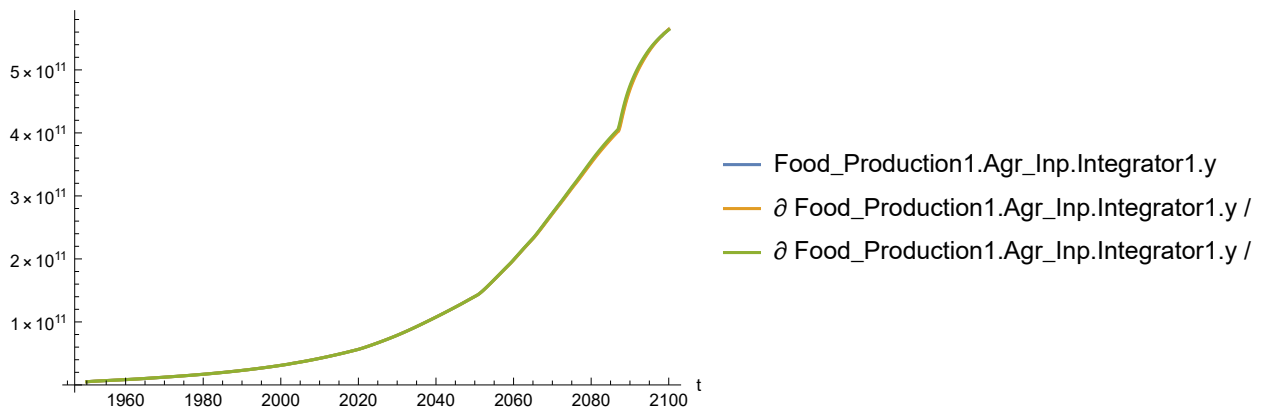
```
In[35]:= SystemModelPlot[simsensdata, {"Food_Production1.Agr_Inp.Integrator1.y",
  "Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[2]", percentvar}]
```

Out[35]=



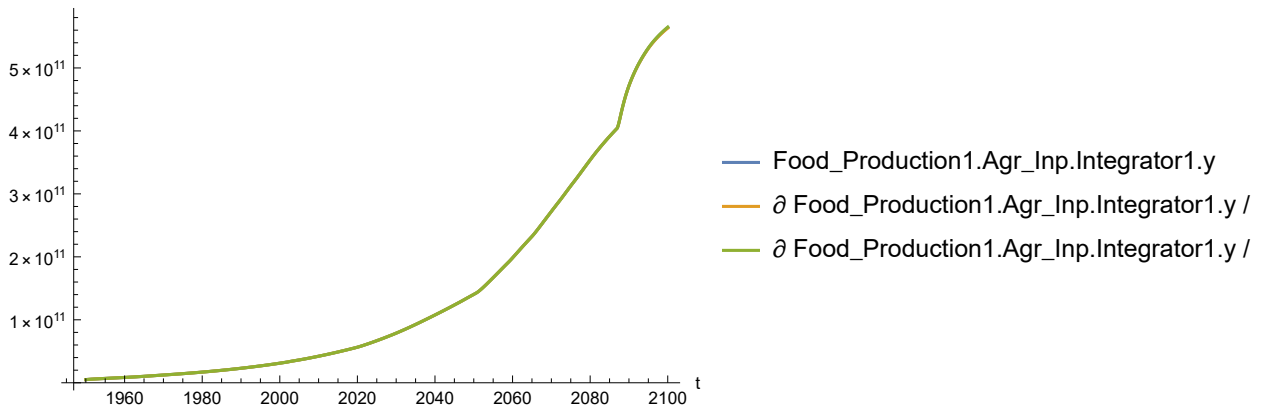
```
In[36]:= SystemModelPlot[simsensdata, {"Food_Production1.Agr_Inp.Integrator1.y",
  "Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[3]", percentvar}]
```

Out[36]=



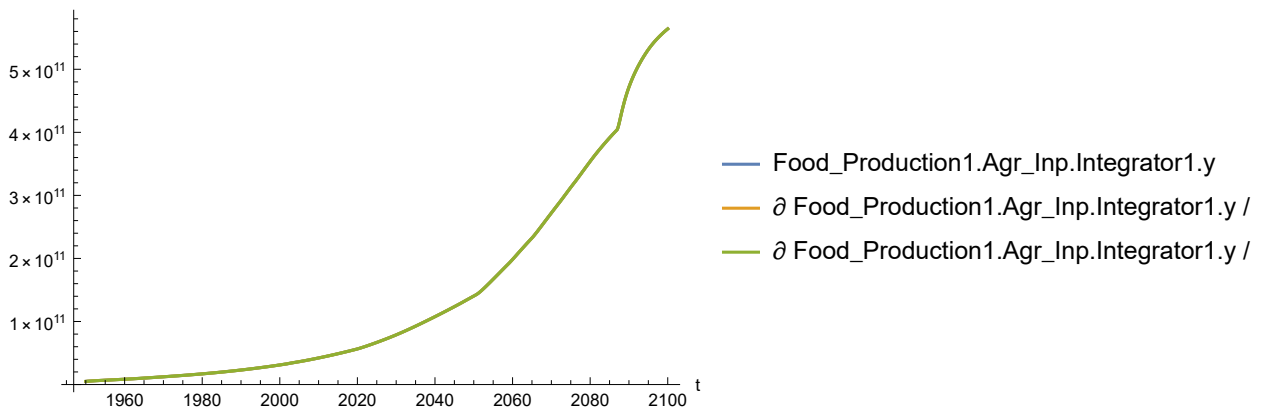
```
In[37]:= SystemModelPlot[simsensdata, {"Food_Production1.Agr_Inp.Integrator1.y",
"Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[4]", percentvar}]
```

Out[37]=



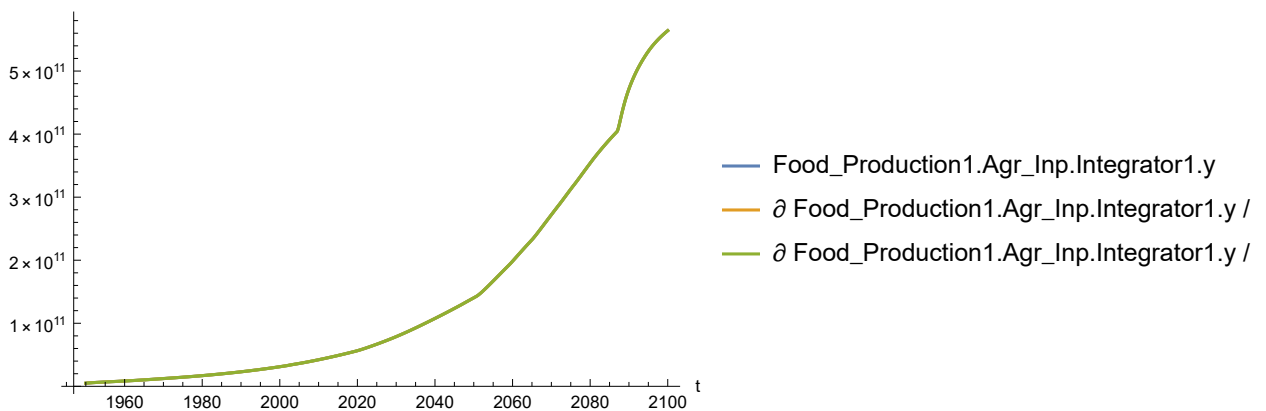
```
In[38]:= SystemModelPlot[simsensdata, {"Food_Production1.Agr_Inp.Integrator1.y",
"Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[5]", percentvar}]
```

Out[38]=



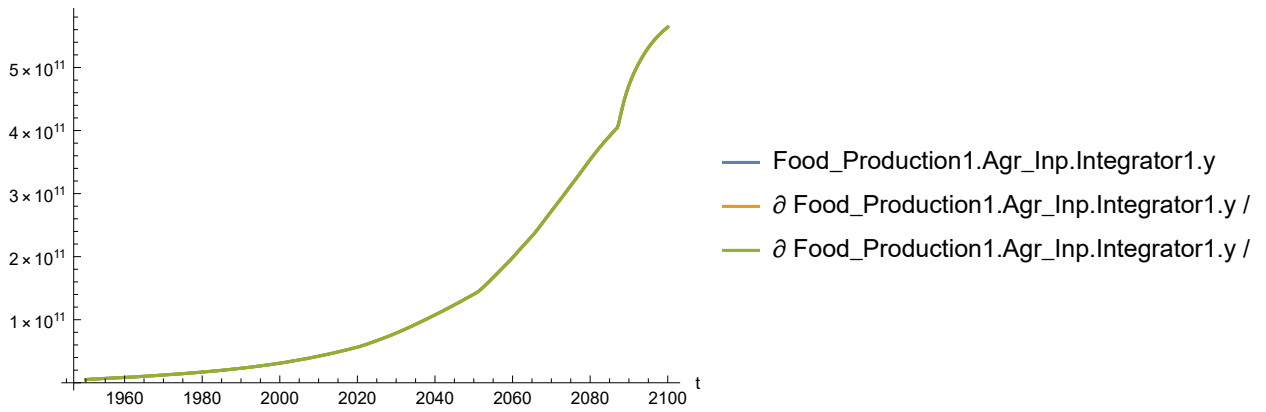
```
In[39]:= SystemModelPlot[simsensdata, {"Food_Production1.Agr_Inp.Integrator1.y",
"Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[6]", percentvar}]
```

Out[39]=



```
In[40]:= SystemModelPlot[simsensdata, {"Food_Production1.Agr_Inp.Integrator1.y",
"Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[7]", percentvar}]
```

Out[40]=

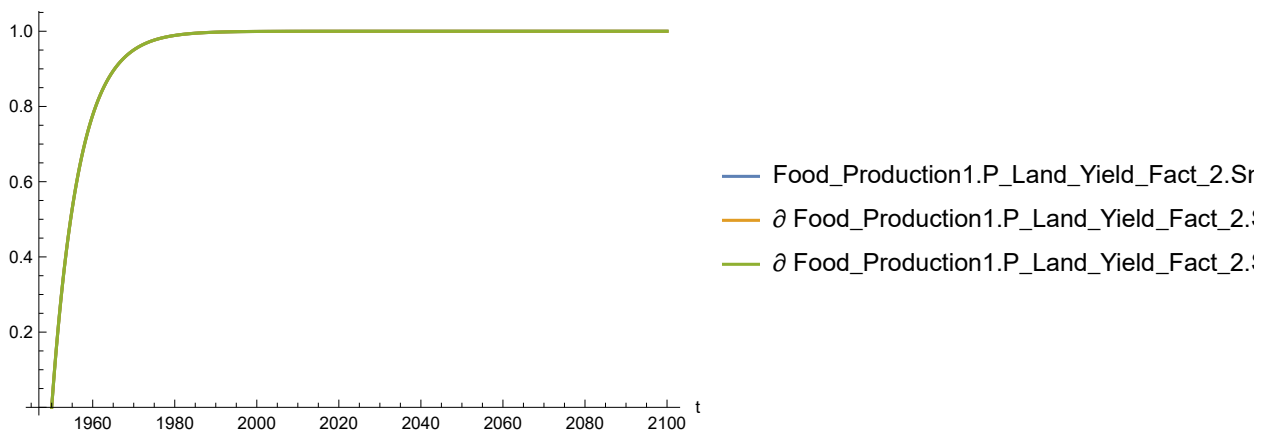


Plot sensitivity of **Food_Production1.P_Land_Yield_Fact2** to **Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals**.

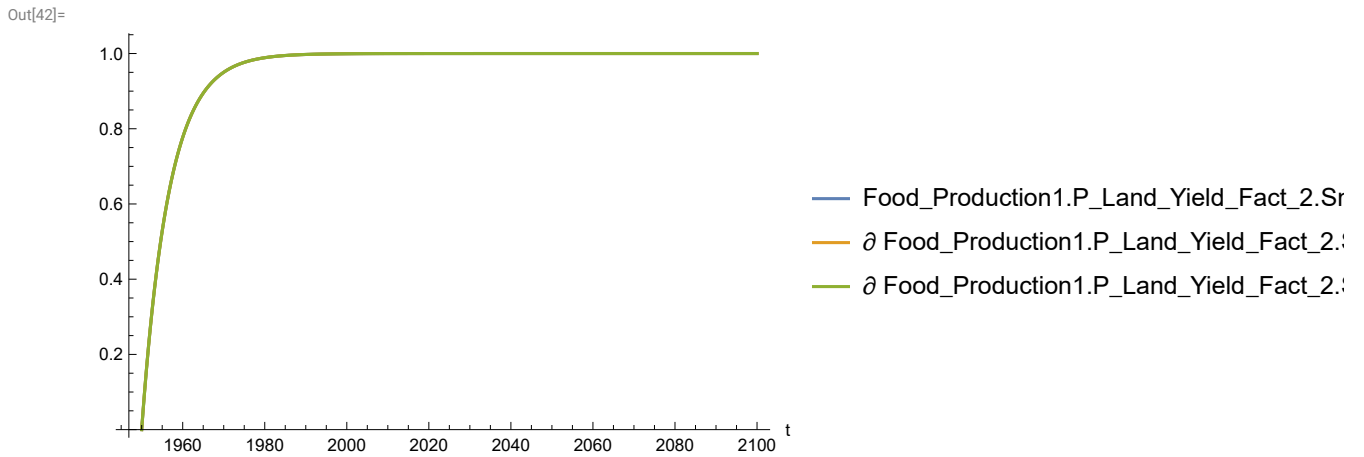
Plot the sensitivity of Food_Production1.P_Land_Yield_Fact_2.SmoothN.Integrator1.y, where N = 1, 2, 3, to variation in **Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals**.

```
In[41]:= SystemModelPlot[simsensdata,
{"Food_Production1.P_Land_Yield_Fact_2.Smooth1.Integrator1.y",
"Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[1]", percentvar}]
```

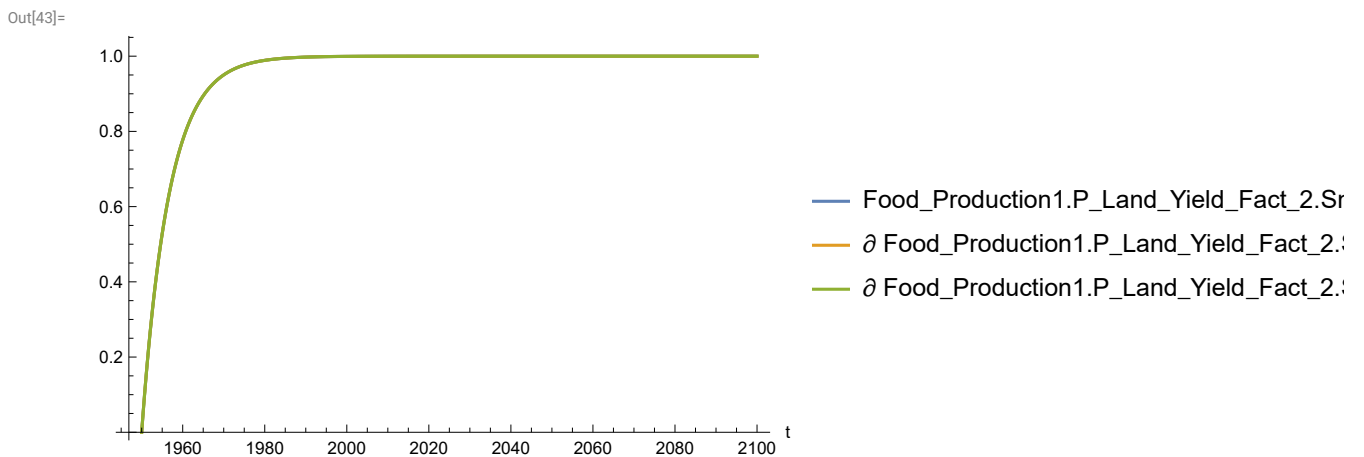
Out[41]=



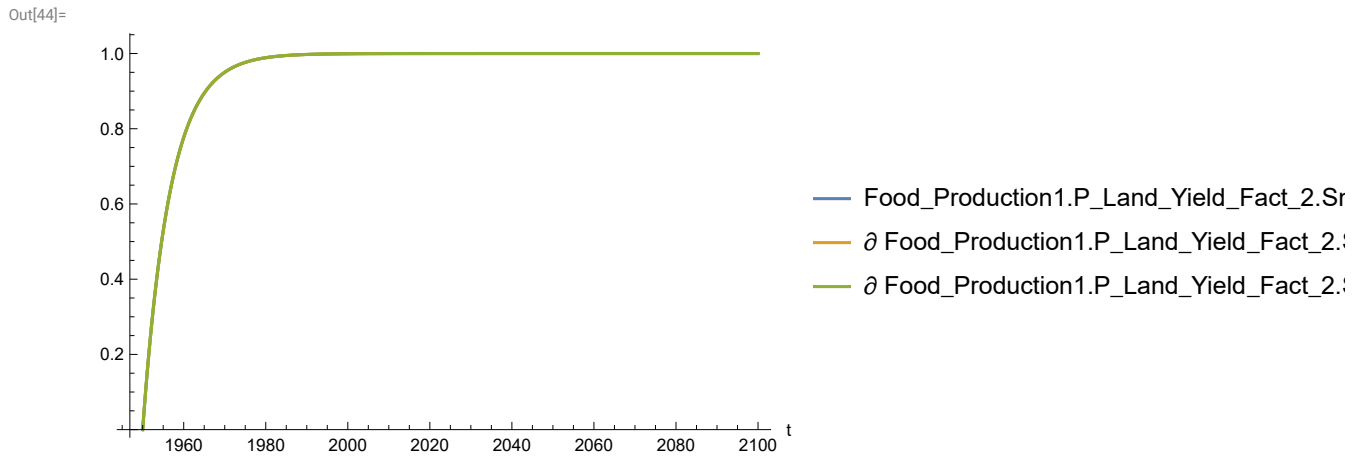
```
In[42]:= SystemModelPlot[simsensdata,
  {"Food_Production1.P_Land_Yield_Fact_2.Smooth1.Integrator1.y",
   "Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[2]", percentvar}]
```



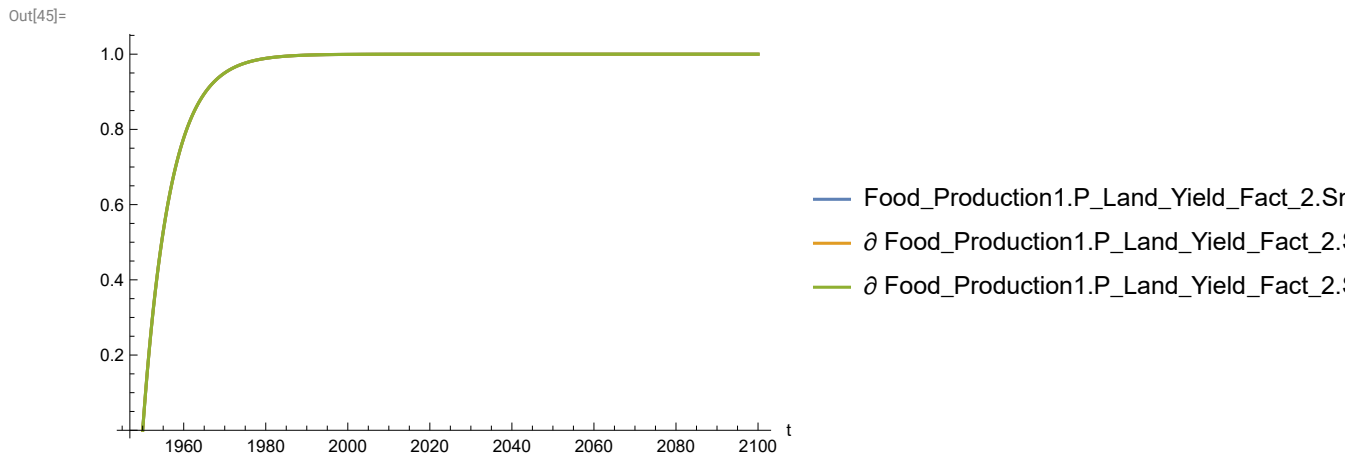
```
In[43]:= SystemModelPlot[simsensdata,
  {"Food_Production1.P_Land_Yield_Fact_2.Smooth1.Integrator1.y",
   "Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[3]", percentvar}]
```



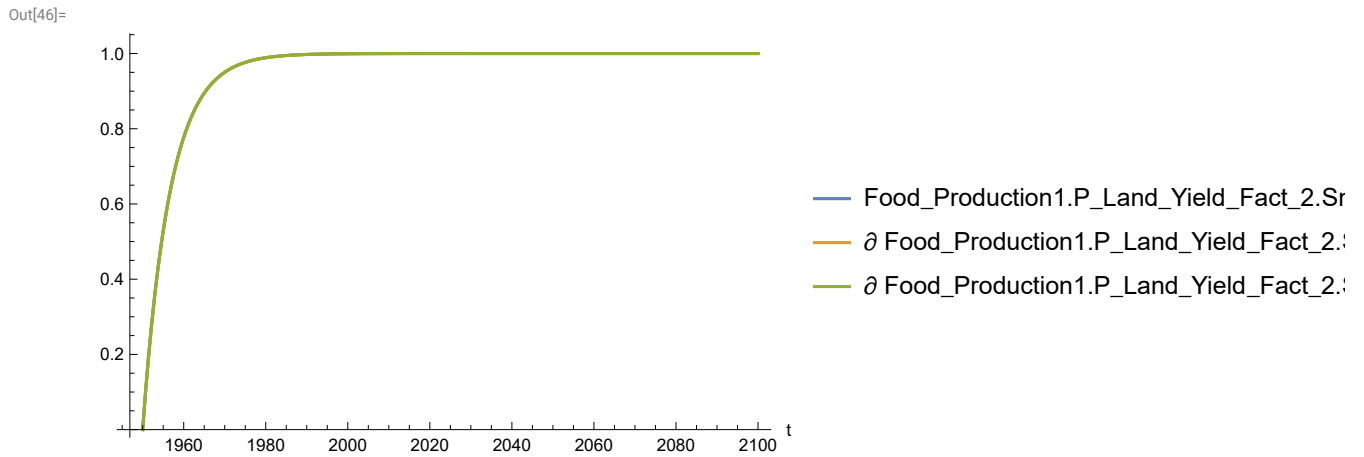
```
In[44]:= SystemModelPlot[simsensdata,
  {"Food_Production1.P_Land_Yield_Fact_2.Smooth1.Integrator1.y",
   "Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[4]", percentvar}]
```



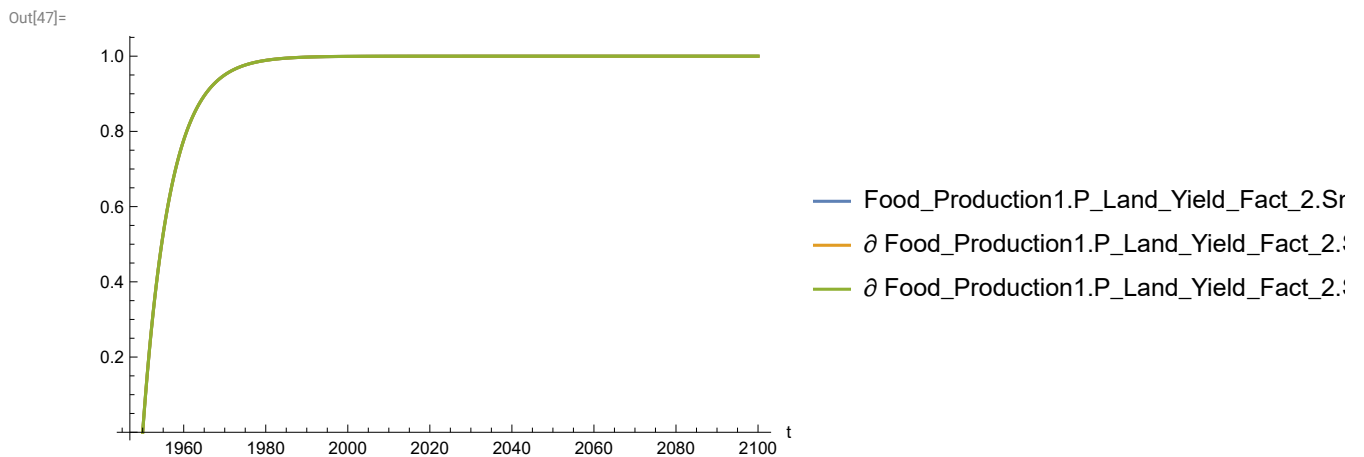
```
In[45]:= SystemModelPlot[simsensdata,
  {"Food_Production1.P_Land_Yield_Fact_2.Smooth1.Integrator1.y",
   "Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[5]", percentvar}]
```



```
In[46]:= SystemModelPlot[simsensdata,
  {"Food_Production1.P_Land_Yield_Fact_2.Smooth1.Integrator1.y",
   "Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[6]", percentvar}]
```

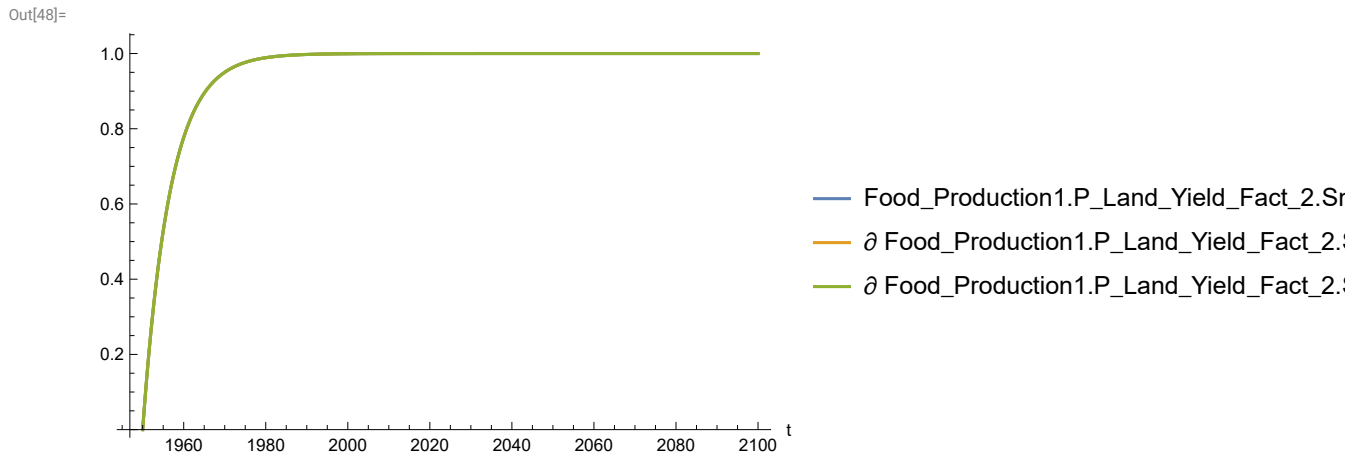


```
In[47]:= SystemModelPlot[simsensdata,
  {"Food_Production1.P_Land_Yield_Fact_2.Smooth1.Integrator1.y",
   "Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[7]", percentvar}]
```

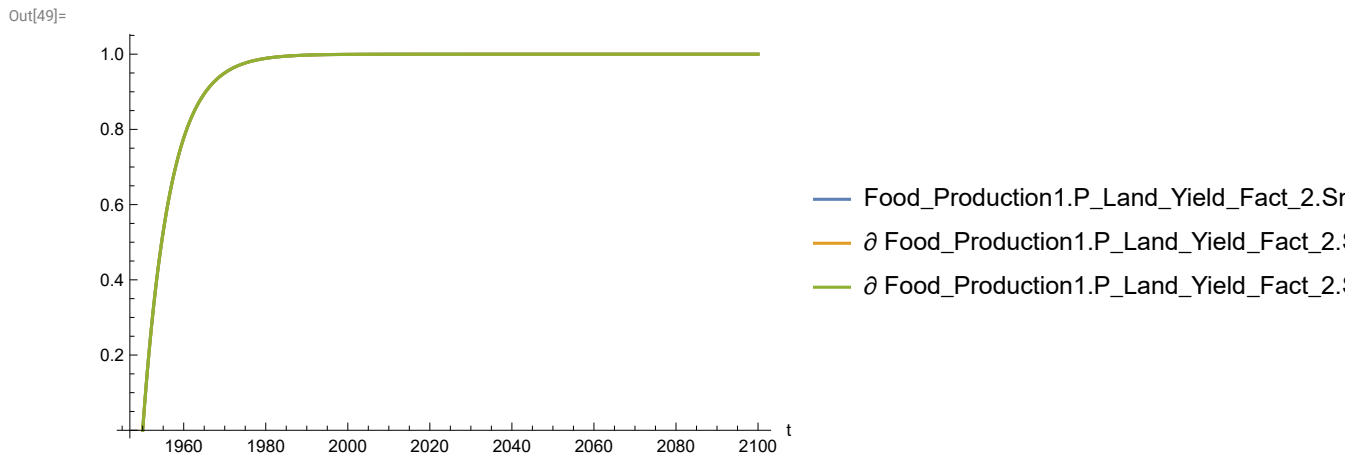


Plot the sensitivity of Food_Production1.P_Land_Yield_Fact_2.Smooth1.Integrator1.y to Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals.

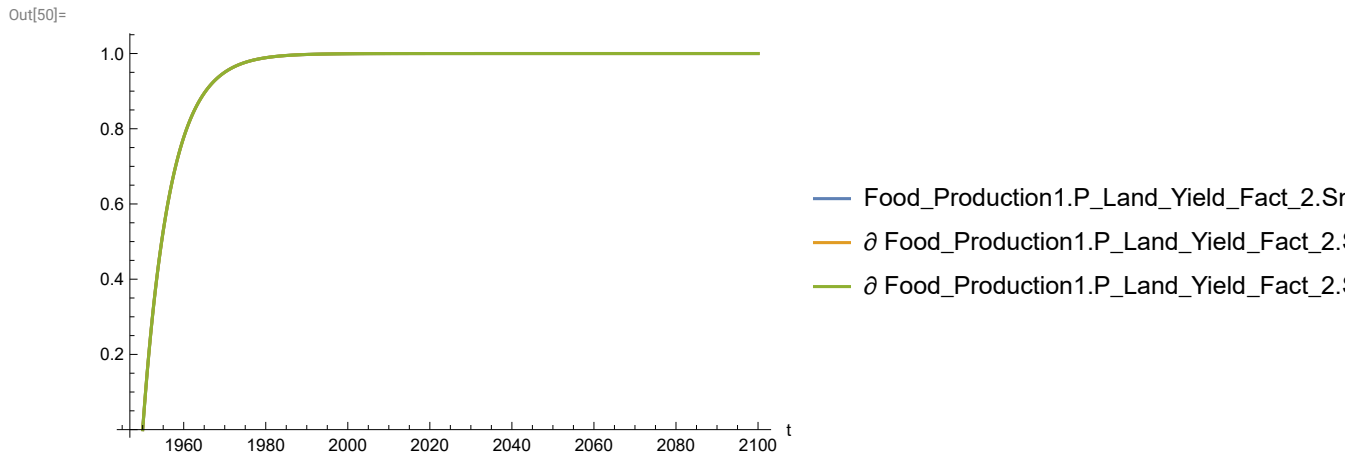

```
In[48]:= SystemModelPlot[simsensdata,
  {"Food_Production1.P_Land_Yield_Fact_2.Smooth1.Integrator1.y",
   "Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[1]", percentvar}]
```



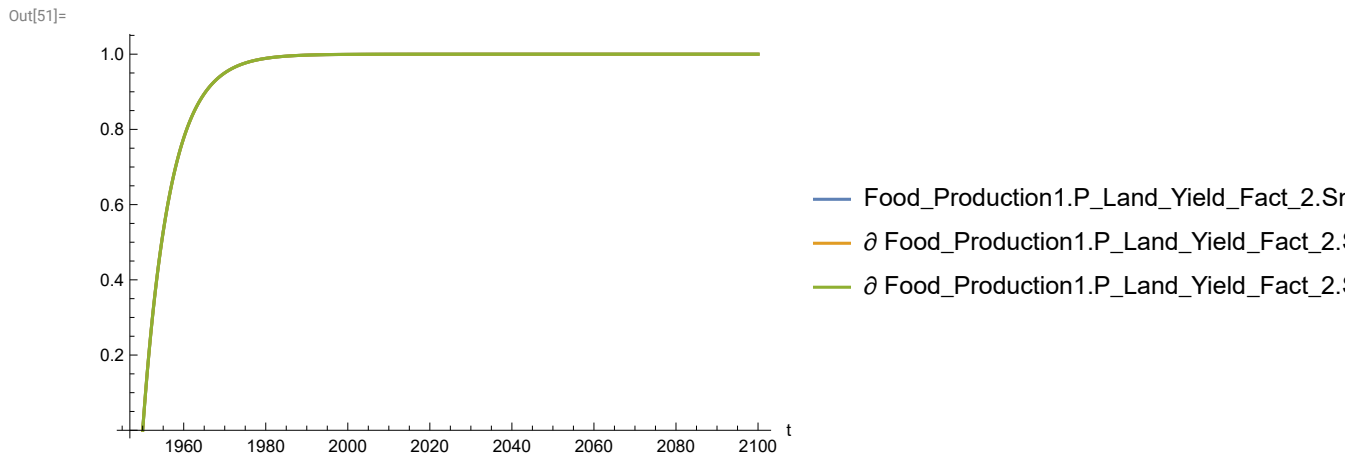
```
In[49]:= SystemModelPlot[simsensdata,
  {"Food_Production1.P_Land_Yield_Fact_2.Smooth1.Integrator1.y",
   "Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[2]", percentvar}]
```



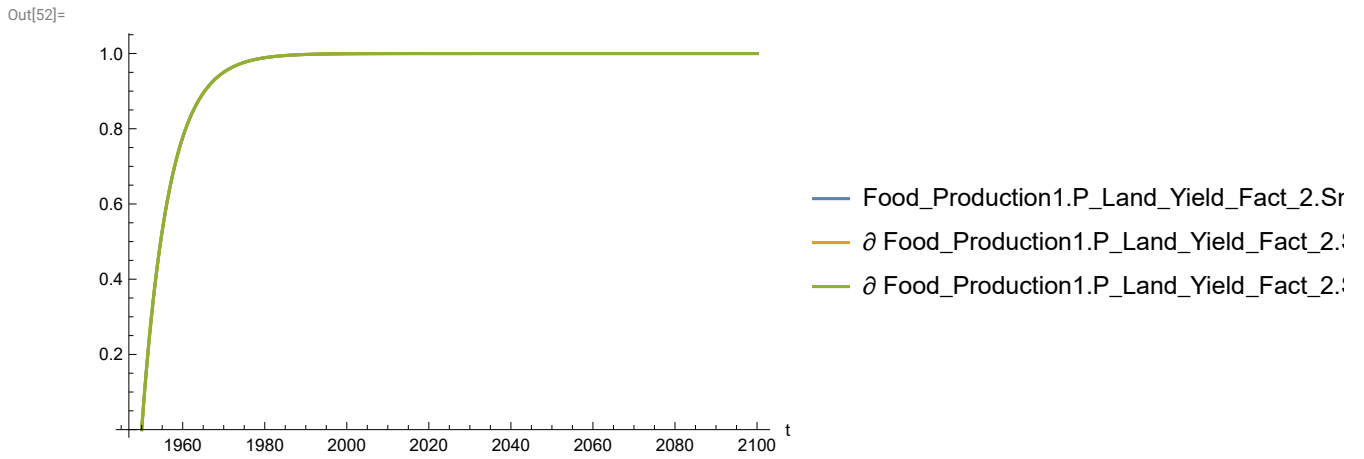
```
In[50]:= SystemModelPlot[simsensdata,
  {"Food_Production1.P_Land_Yield_Fact_2.Smooth1.Integrator1.y",
   "Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[3]", percentvar}]
```



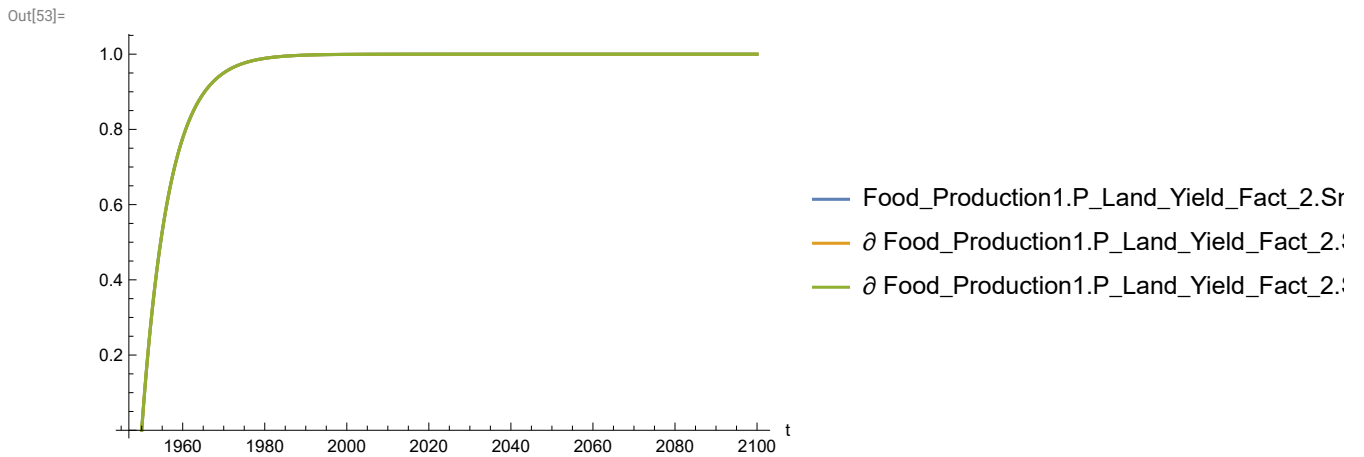
```
In[51]:= SystemModelPlot[simsensdata,
  {"Food_Production1.P_Land_Yield_Fact_2.Smooth1.Integrator1.y",
   "Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[4]", percentvar}]
```



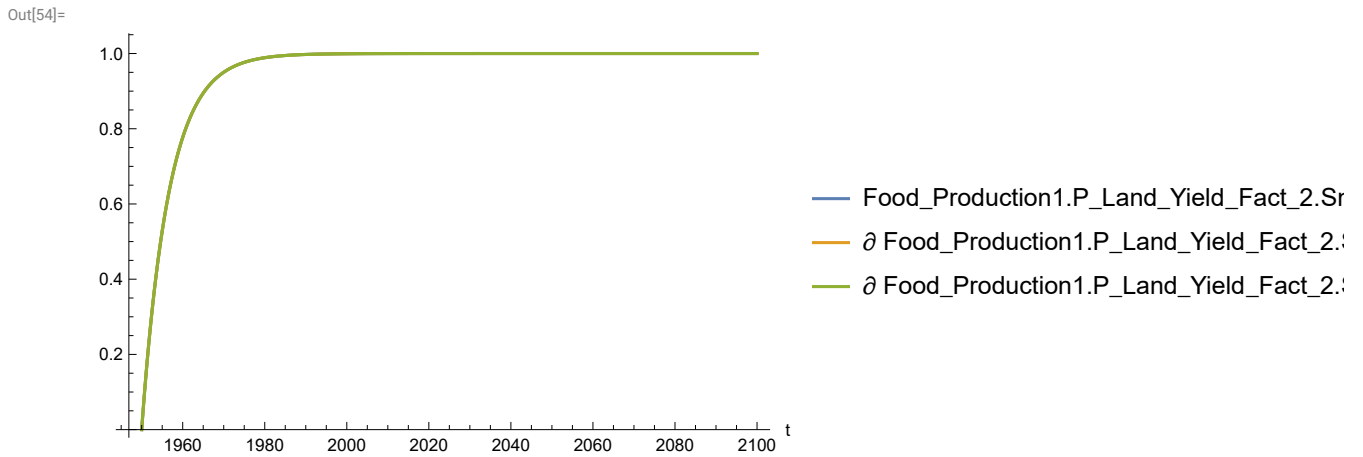
```
In[52]:= SystemModelPlot[simsensdata,
  {"Food_Production1.P_Land_Yield_Fact_2.Smooth1.Integrator1.y",
   "Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[5]", percentvar}]
```



```
In[53]:= SystemModelPlot[simsensdata,
  {"Food_Production1.P_Land_Yield_Fact_2.Smooth1.Integrator1.y",
   "Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[6]", percentvar}]
```

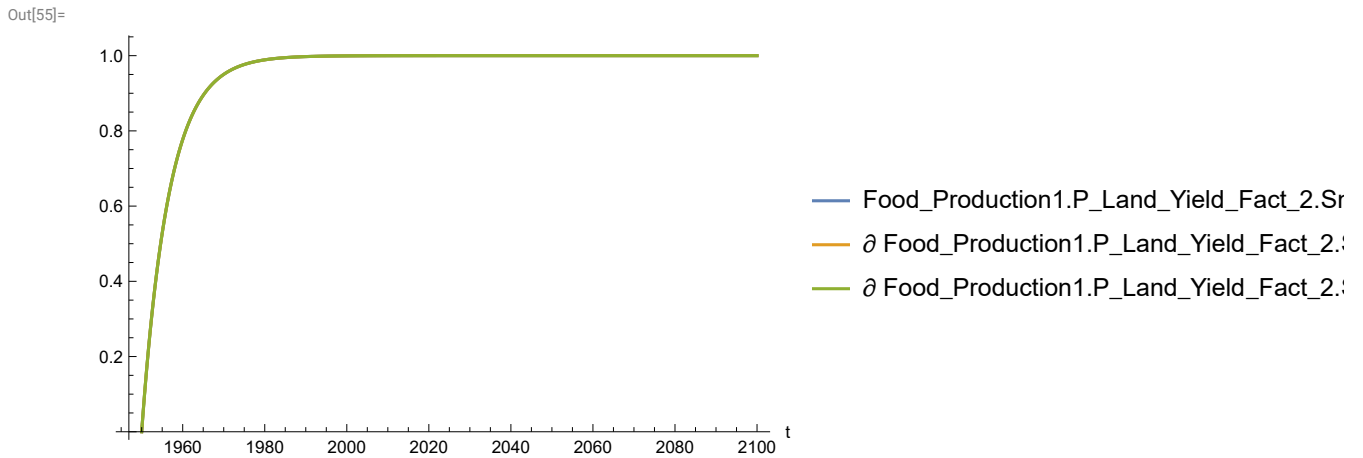


```
In[54]:= SystemModelPlot[simsensdata,
  {"Food_Production1.P_Land_Yield_Fact_2.Smooth1.Integrator1.y",
   "Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[7]", percentvar}]
```

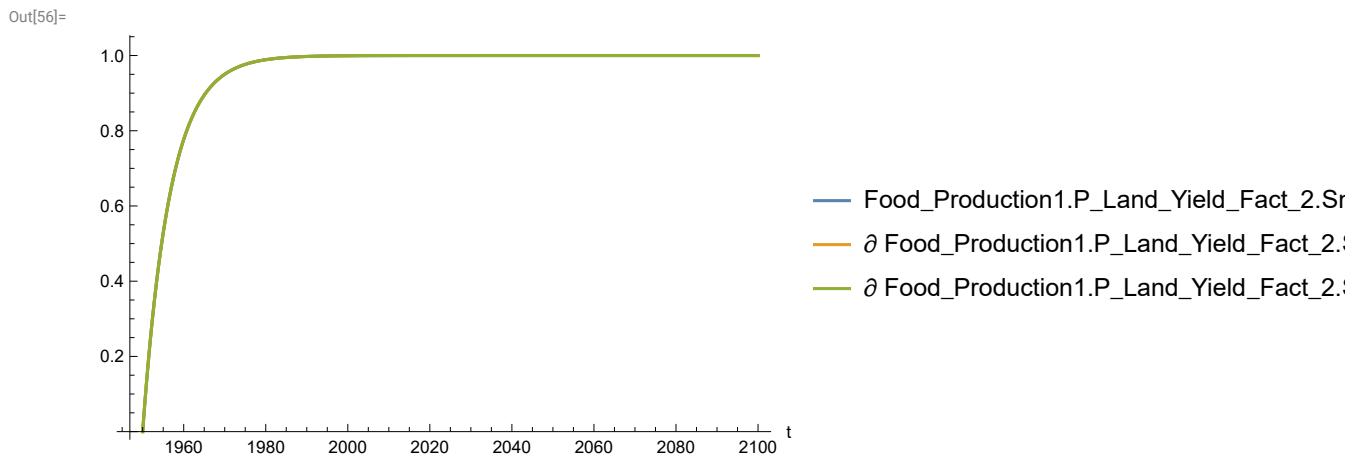


Plot the sensitivity of Food_Production1.P_Land_Yield_Fact_2.Smooth1.Integrator1.y to Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals.

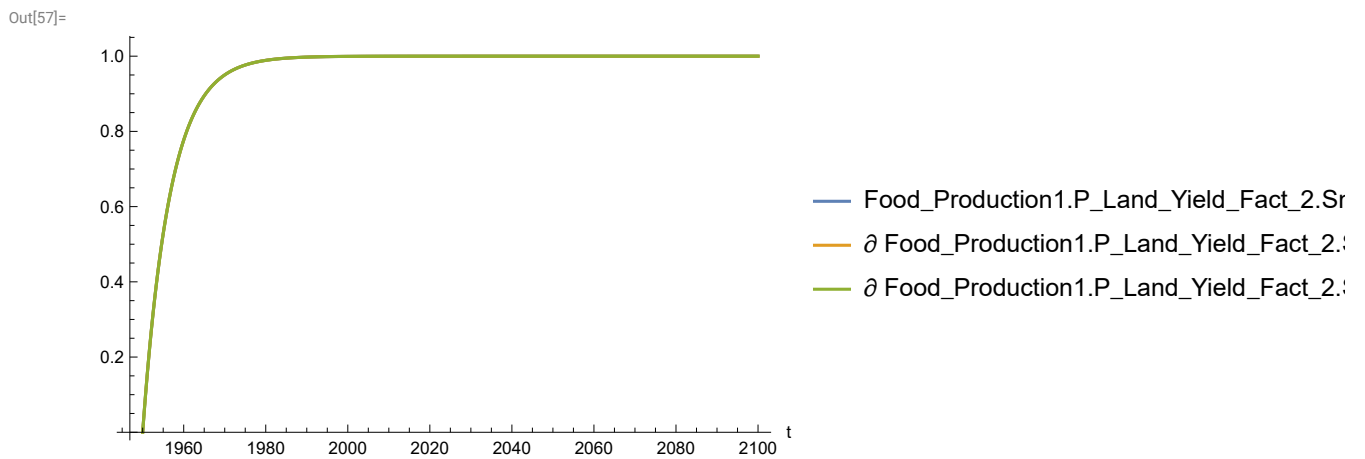
```
In[55]:= SystemModelPlot[simsensdata,
  {"Food_Production1.P_Land_Yield_Fact_2.Smooth1.Integrator1.y",
   "Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[1]", percentvar}]
```



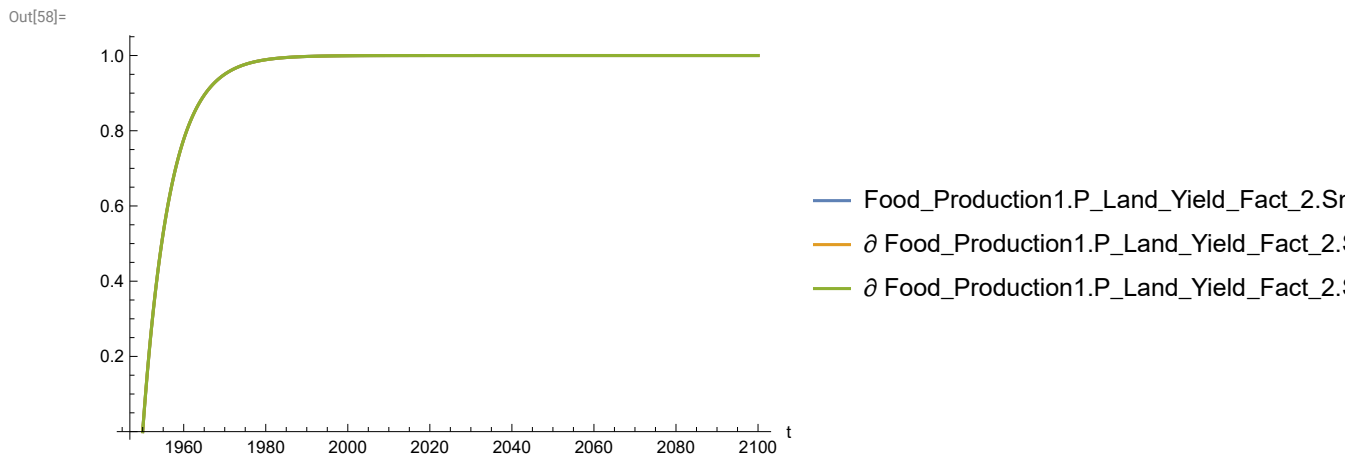
```
In[56]:= SystemModelPlot[simsensdata,
  {"Food_Production1.P_Land_Yield_Fact_2.Smooth1.Integrator1.y",
   "Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[2]", percentvar}]
```



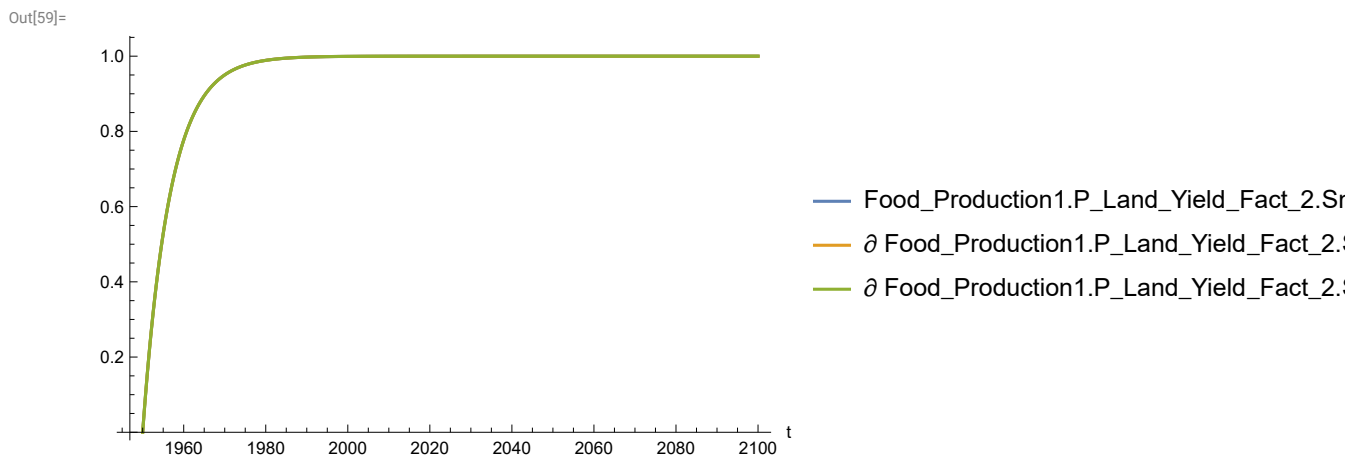
```
In[57]:= SystemModelPlot[simsensdata,
  {"Food_Production1.P_Land_Yield_Fact_2.Smooth1.Integrator1.y",
   "Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[3]", percentvar}]
```



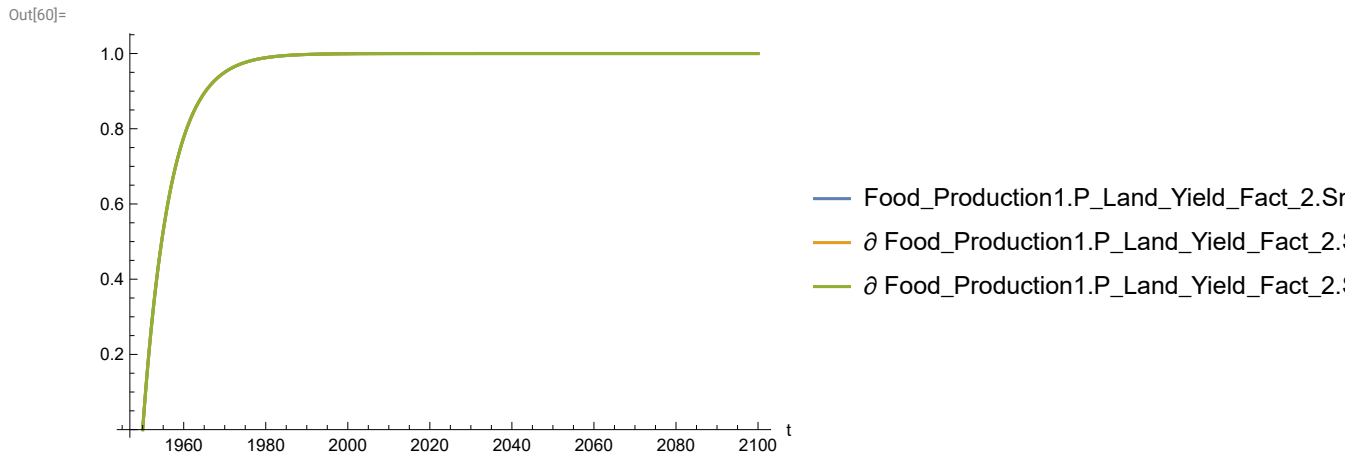
```
In[58]:= SystemModelPlot[simsensdata,
  {"Food_Production1.P_Land_Yield_Fact_2.Smooth1.Integrator1.y",
   "Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[4]", percentvar}]
```



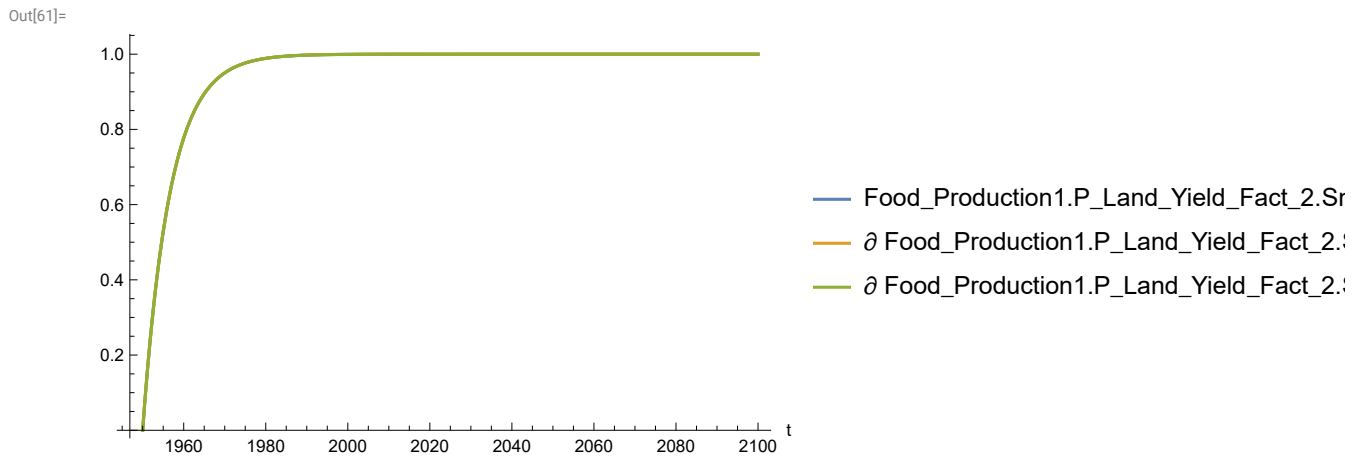
```
In[59]:= SystemModelPlot[simsensdata,
  {"Food_Production1.P_Land_Yield_Fact_2.Smooth1.Integrator1.y",
   "Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[5]", percentvar}]
```



```
In[60]:= SystemModelPlot[simsensdata,
  {"Food_Production1.P_Land_Yield_Fact_2.Smooth1.Integrator1.y",
   "Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[6]", percentvar}]
```

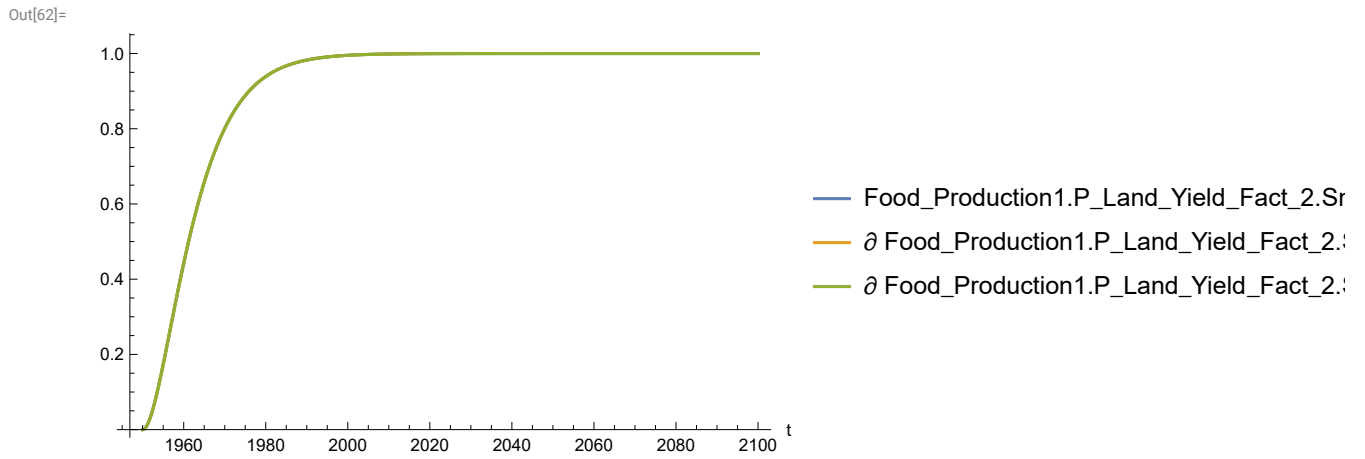


```
In[61]:= SystemModelPlot[simsensdata,
  {"Food_Production1.P_Land_Yield_Fact_2.Smooth1.Integrator1.y",
   "Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[7]", percentvar}]
```

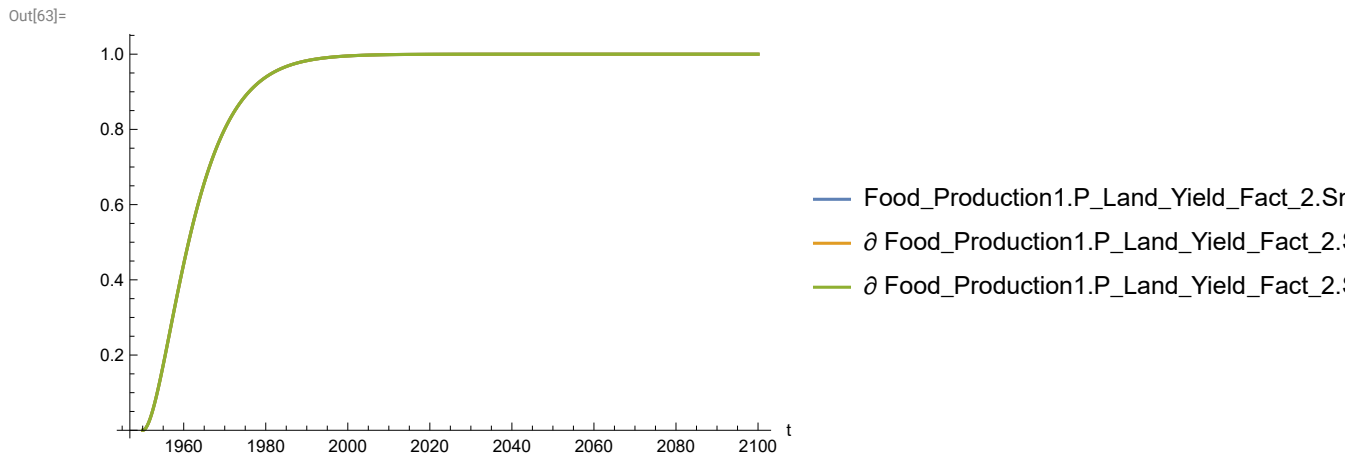


Plot the sensitivity of Food_Production1.P_Land_Yield_Fact_2.Smooth2.Integrator1.y to Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals.

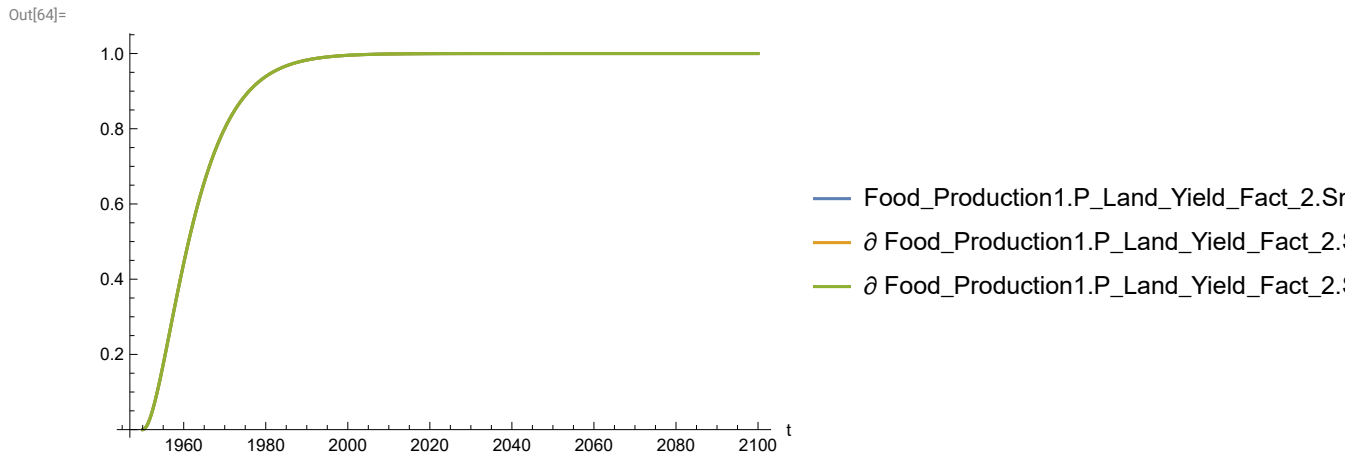
```
In[62]:= SystemModelPlot[simsensdata,
  {"Food_Production1.P_Land_Yield_Fact_2.Smooth2.Integrator1.y",
   "Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[1]", percentvar}]
```



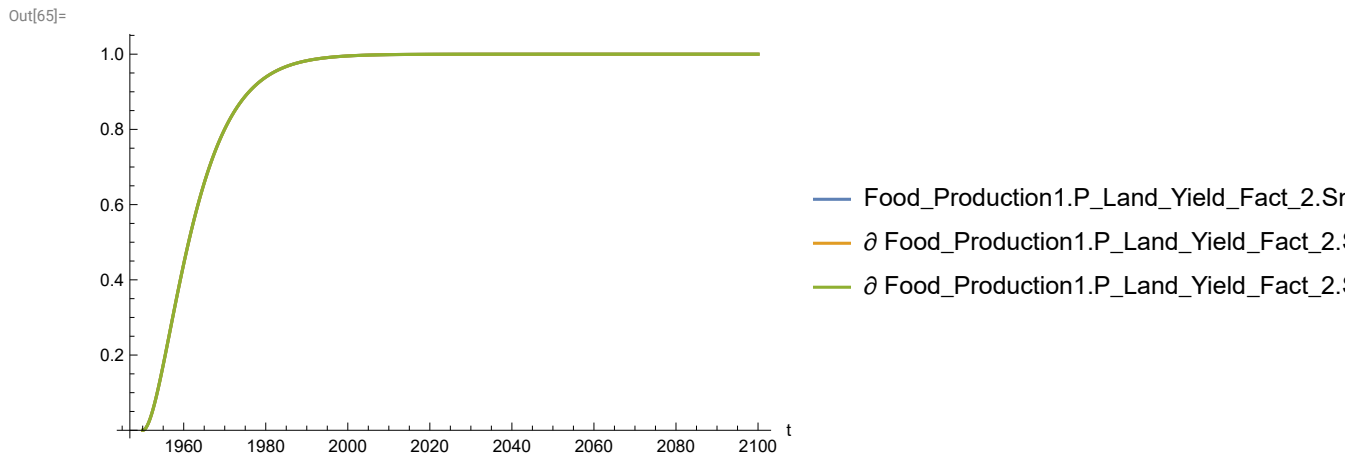
```
In[63]:= SystemModelPlot[simsensdata,
  {"Food_Production1.P_Land_Yield_Fact_2.Smooth2.Integrator1.y",
   "Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[2]", percentvar}]
```



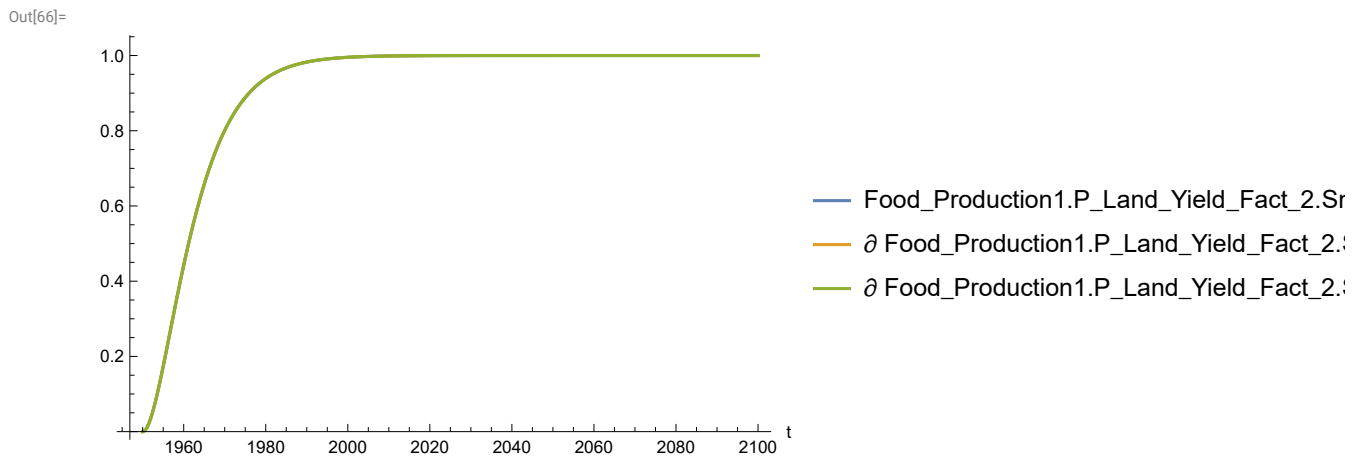

```
In[64]:= SystemModelPlot[simsensdata,
  {"Food_Production1.P_Land_Yield_Fact_2.Smooth2.Integrator1.y",
   "Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[3]", percentvar}]
```



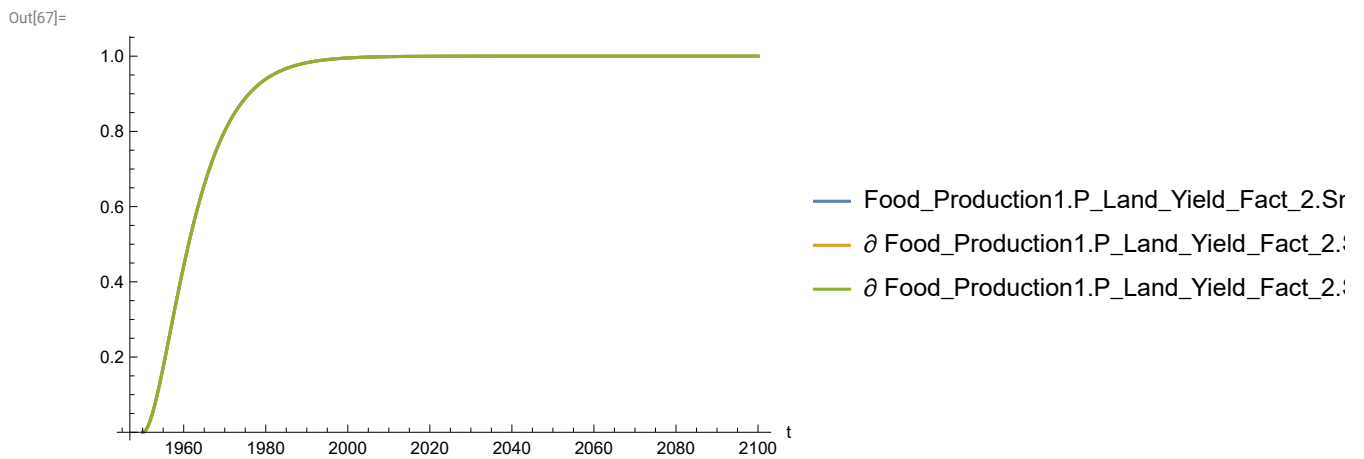
```
In[65]:= SystemModelPlot[simsensdata,
  {"Food_Production1.P_Land_Yield_Fact_2.Smooth2.Integrator1.y",
   "Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[4]", percentvar}]
```



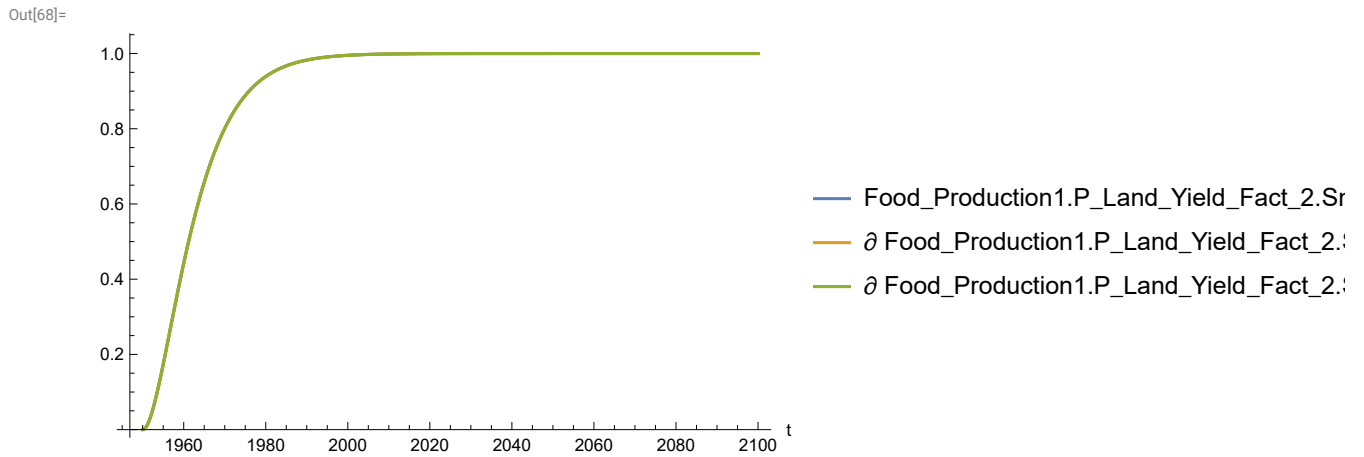
```
In[66]:= SystemModelPlot[simsensdata,
  {"Food_Production1.P_Land_Yield_Fact_2.Smooth2.Integrator1.y",
   "Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[5]", percentvar}]
```



```
In[67]:= SystemModelPlot[simsensdata,
  {"Food_Production1.P_Land_Yield_Fact_2.Smooth2.Integrator1.y",
   "Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[6]", percentvar}]
```

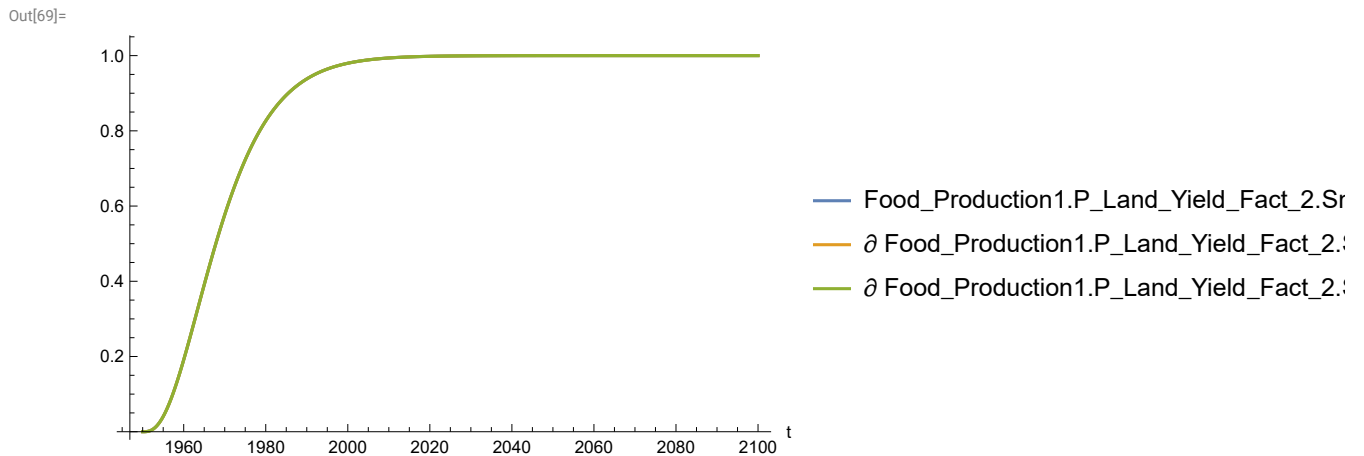


```
In[68]:= SystemModelPlot[simsensdata,
  {"Food_Production1.P_Land_Yield_Fact_2.Smooth2.Integrator1.y",
   "Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[7]", percentvar}]
```

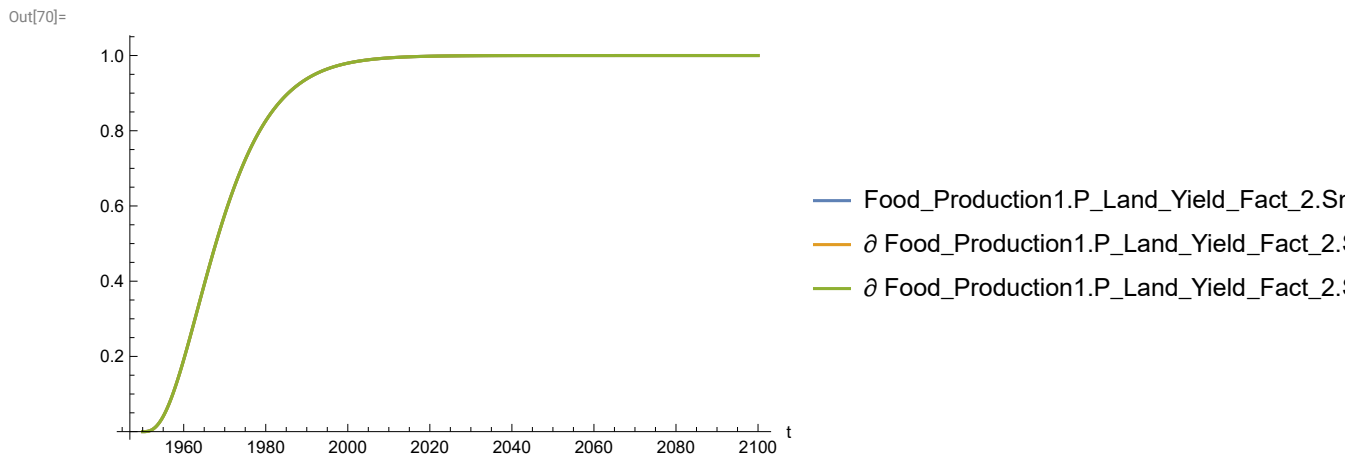


Plot sensitivity of **Food_Production1.P_Land_Yield_Fact_2.Smooth3.Integrator1.y** to Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals

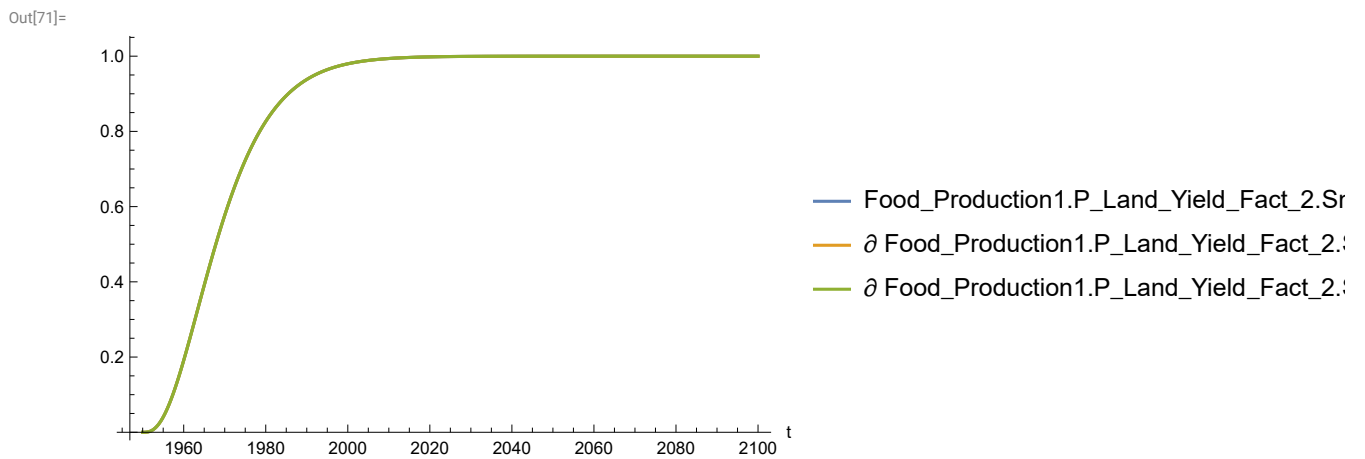
```
In[69]:= SystemModelPlot[simsensdata,
  {"Food_Production1.P_Land_Yield_Fact_2.Smooth3.Integrator1.y",
   "Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[1]", percentvar}]
```



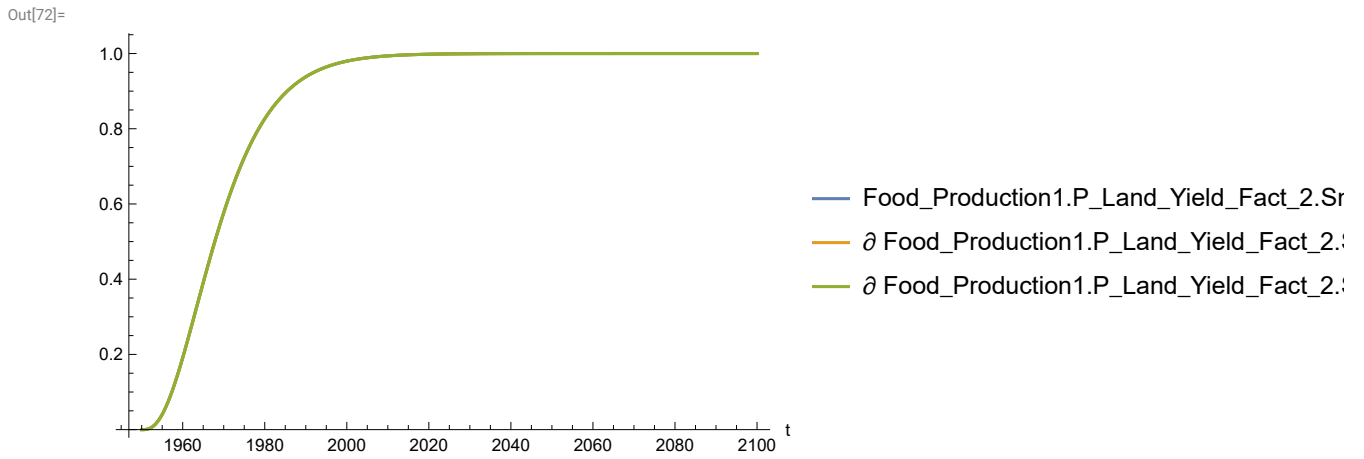
```
In[70]:= SystemModelPlot[simsensdata,
  {"Food_Production1.P_Land_Yield_Fact_2.Smooth3.Integrator1.y",
   "Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[2]", percentvar}]
```



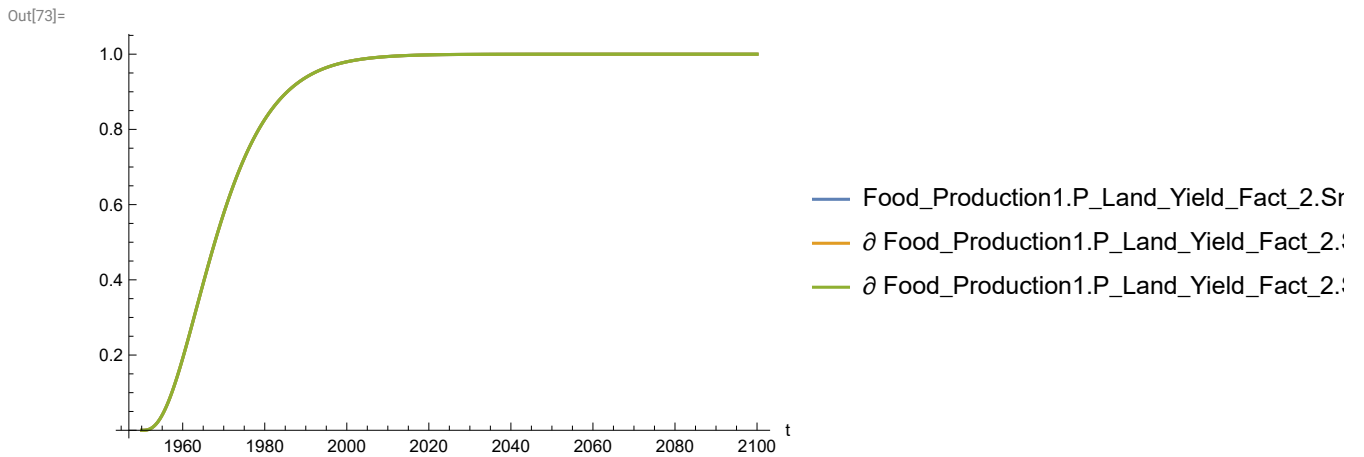
```
In[71]:= SystemModelPlot[simsensdata,
  {"Food_Production1.P_Land_Yield_Fact_2.Smooth3.Integrator1.y",
   "Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[3]", percentvar}]
```



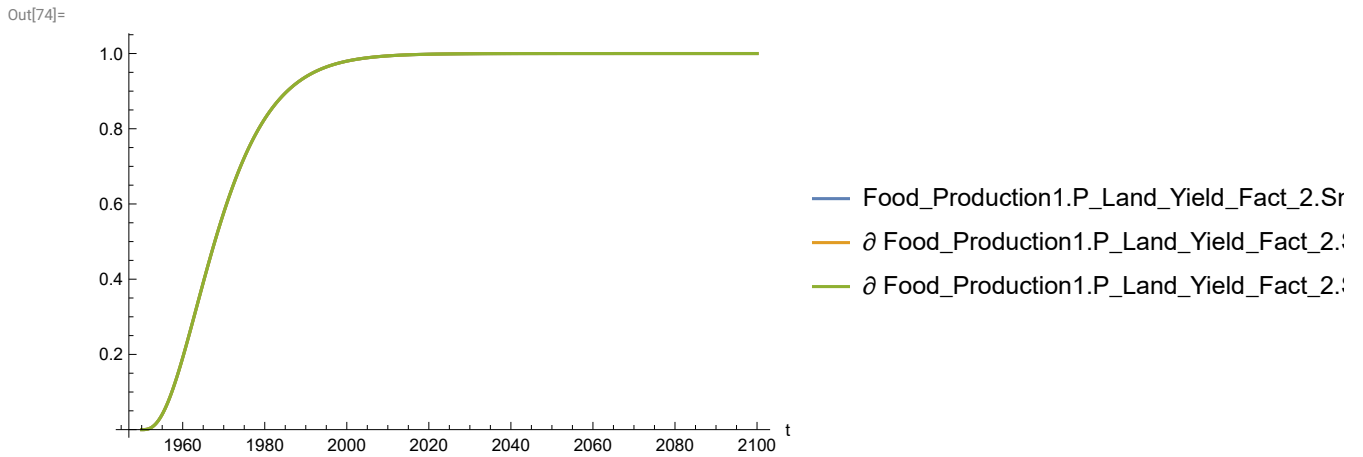
```
In[72]:= SystemModelPlot[simsensdata,
  {"Food_Production1.P_Land_Yield_Fact_2.Smooth3.Integrator1.y",
   "Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[4]", percentvar}]
```



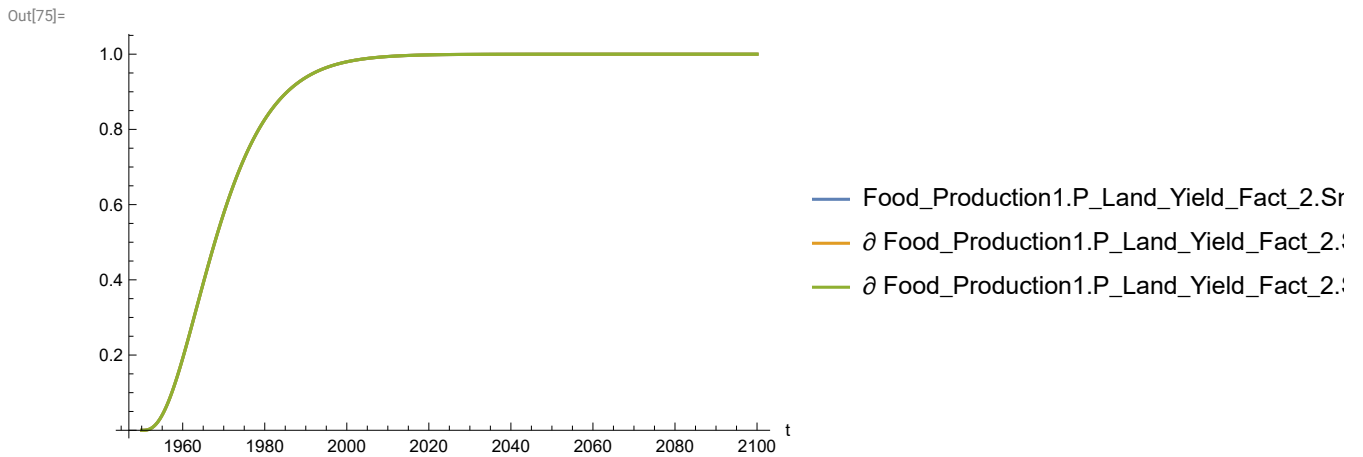
```
In[73]:= SystemModelPlot[simsensdata,
  {"Food_Production1.P_Land_Yield_Fact_2.Smooth3.Integrator1.y",
   "Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[5]", percentvar}]
```



```
In[74]:= SystemModelPlot[simsensdata,
  {"Food_Production1.P_Land_Yield_Fact_2.Smooth3.Integrator1.y",
   "Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[6]", percentvar}]
```



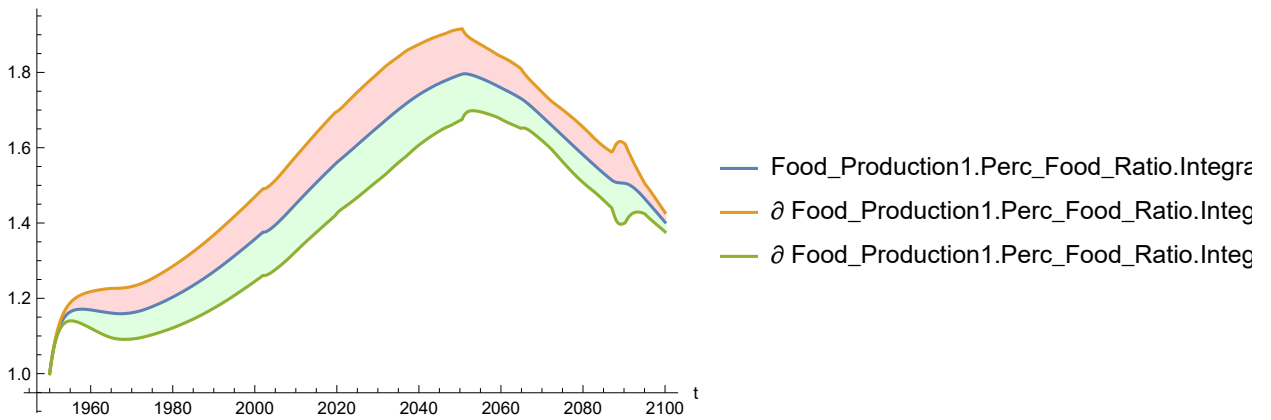
```
In[75]:= SystemModelPlot[simsensdata,
  {"Food_Production1.P_Land_Yield_Fact_2.Smooth3.Integrator1.y",
   "Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[7]", percentvar}]
```



Plot sensitivity of **Food_Production1.Perc_Food_Ratio.Integrator1.y** to **Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals**

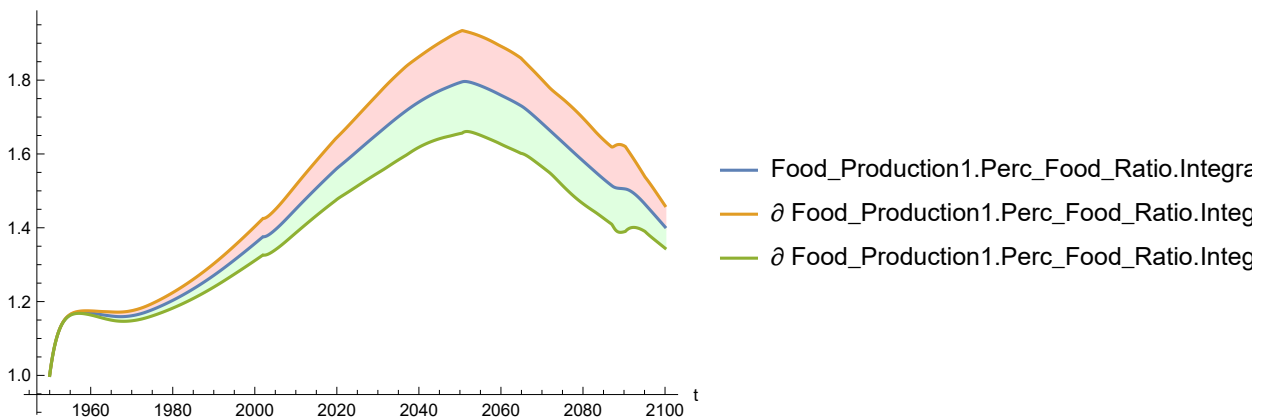
```
In[76]:= SystemModelPlot[simsensdata, {"Food_Production1.Perc_Food_Ratio.Integrator1.y",
"Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[1]", percentvar}]
```

Out[76]=



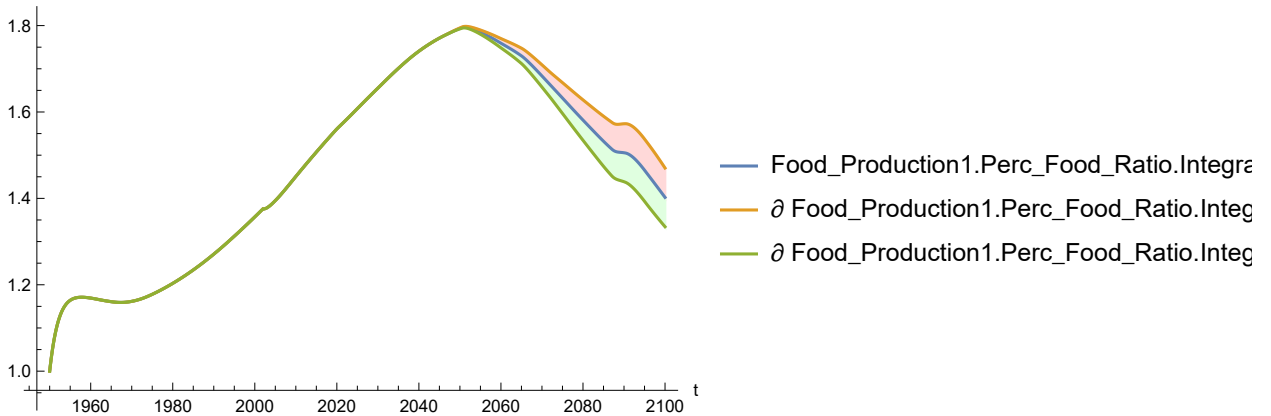
```
In[77]:= SystemModelPlot[simsensdata, {"Food_Production1.Perc_Food_Ratio.Integrator1.y",
"Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[2]", percentvar}]
```

Out[77]=



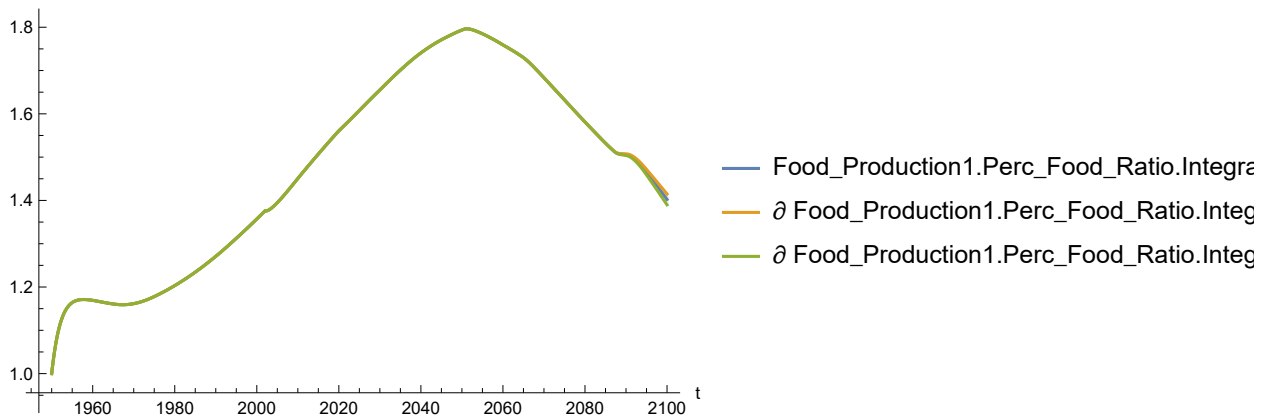
```
In[78]:= SystemModelPlot[simsensdata, {"Food_Production1.Perc_Food_Ratio.Integrator1.y",
"Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[3]", percentvar}]
```

Out[78]=



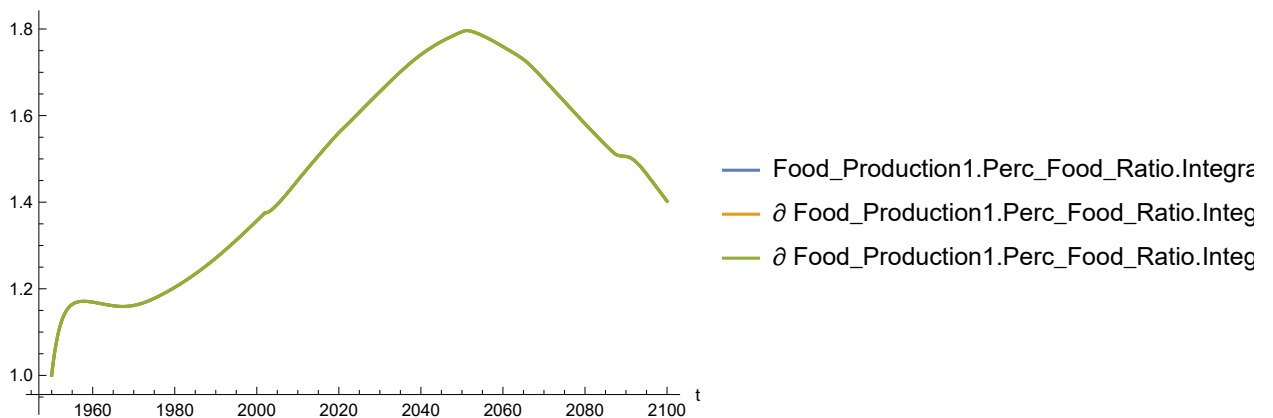
```
In[79]:= SystemModelPlot[simsensdata, {"Food_Production1.Perc_Food_Ratio.Integrator1.y",
"Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[4]", percentvar}]
```

Out[79]=



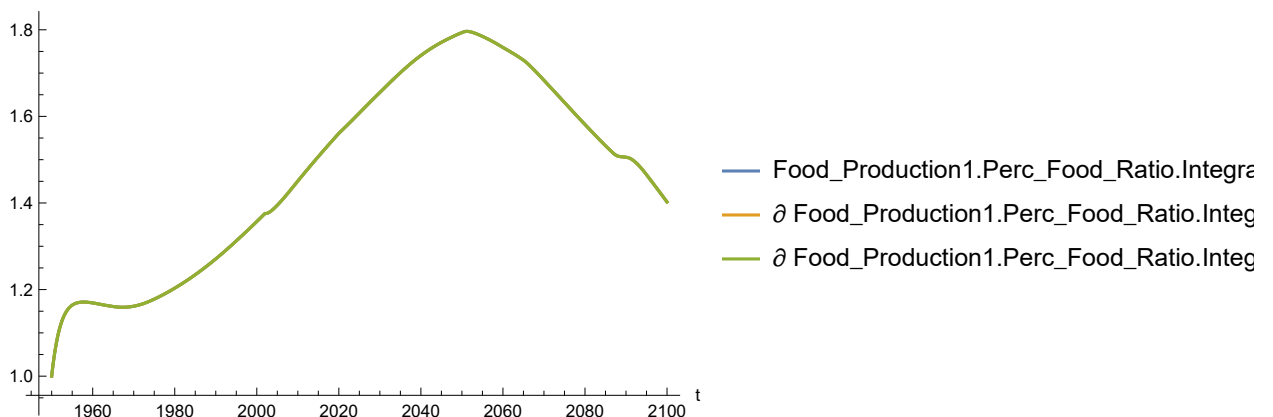
```
In[80]:= SystemModelPlot[simsensdata, {"Food_Production1.Perc_Food_Ratio.Integrator1.y",
"Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[5]", percentvar}]
```

Out[80]=



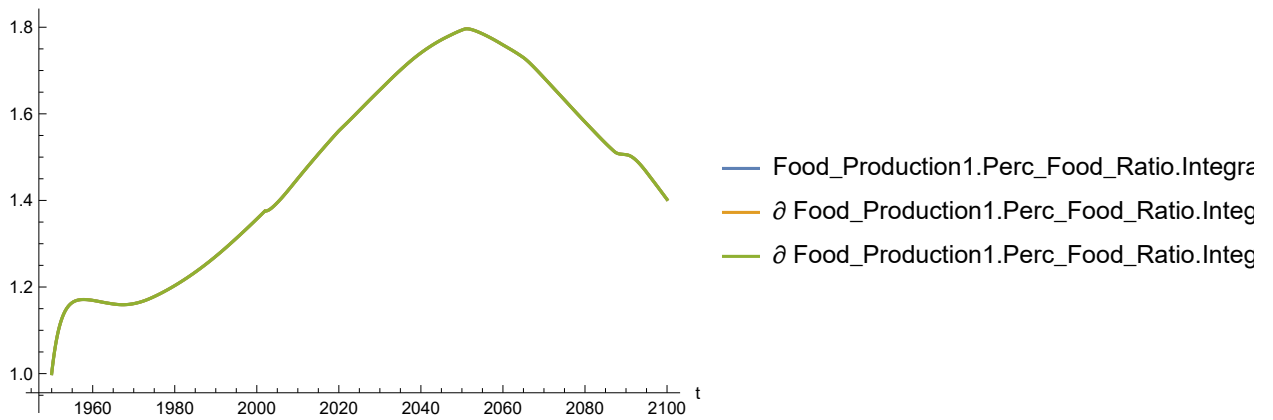
```
In[81]:= SystemModelPlot[simsensdata, {"Food_Production1.Perc_Food_Ratio.Integrator1.y",
"Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[6]", percentvar}]
```

Out[81]=




```
In[82]:= SystemModelPlot[simsensdata, {"Food_Production1.Perc_Food_Ratio.Integrator1.y",
"Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[7]", percentvar}]
```

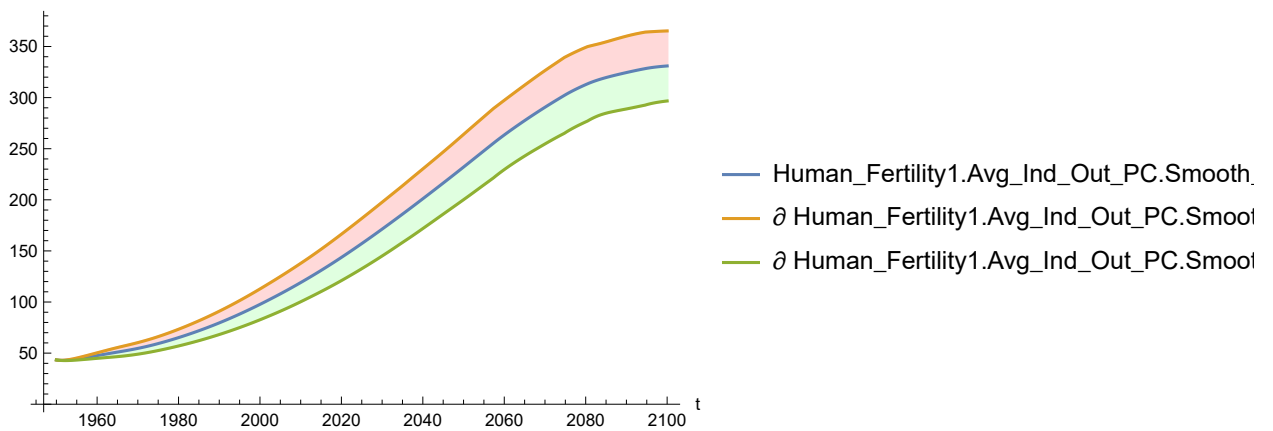
Out[82]=



Plot the sensitivity of Human_Fertility1.Avg_Ind_Out_PC.Smooth_of_Input.Integrator1.y to Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals.

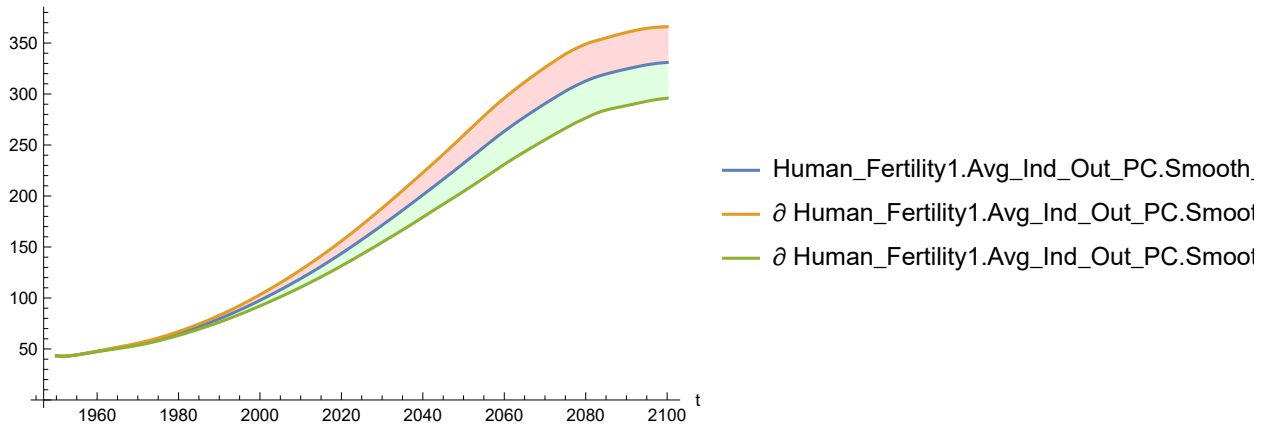
```
In[83]:= SystemModelPlot[simsensdata, {"Human_Fertility1.Avg_Ind_Out_PC.Smooth_of_Input.Integrator1.y",
"Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[1]", percentvar}]
```

Out[83]=



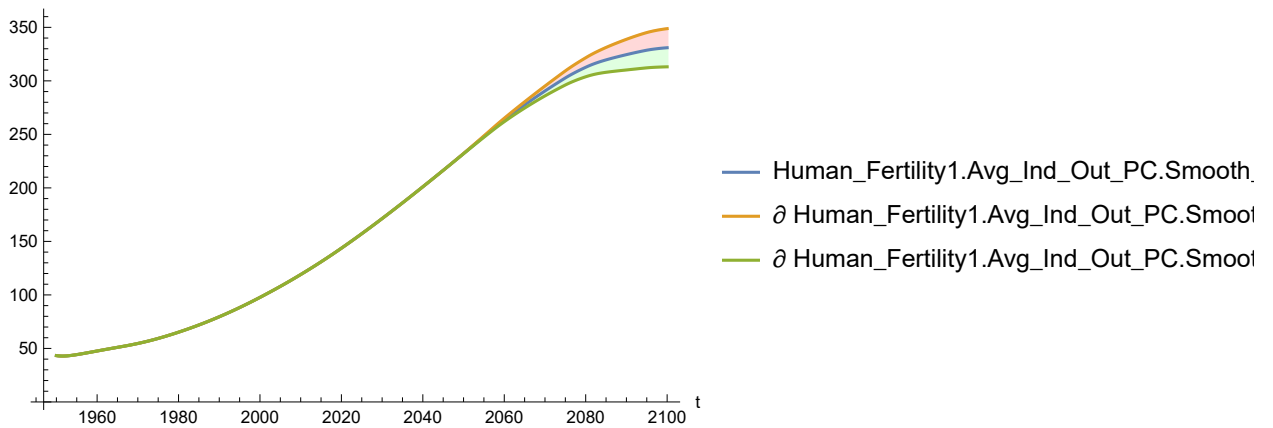
```
In[84]:= SystemModelPlot[simsensdata,
  {"Human_Fertility1.Avg_Ind_Out_PC.Smooth_of_Input.Integrator1.y",
   "Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[2]", percentvar}]
```

Out[84]=

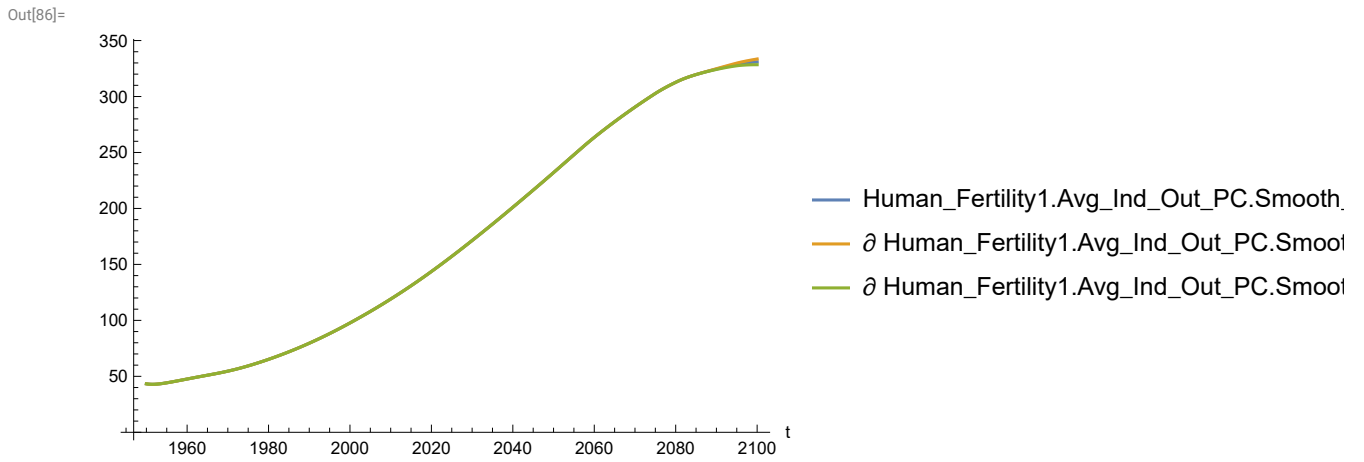


```
In[85]:= SystemModelPlot[simsensdata,
  {"Human_Fertility1.Avg_Ind_Out_PC.Smooth_of_Input.Integrator1.y",
   "Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[3]", percentvar}]
```

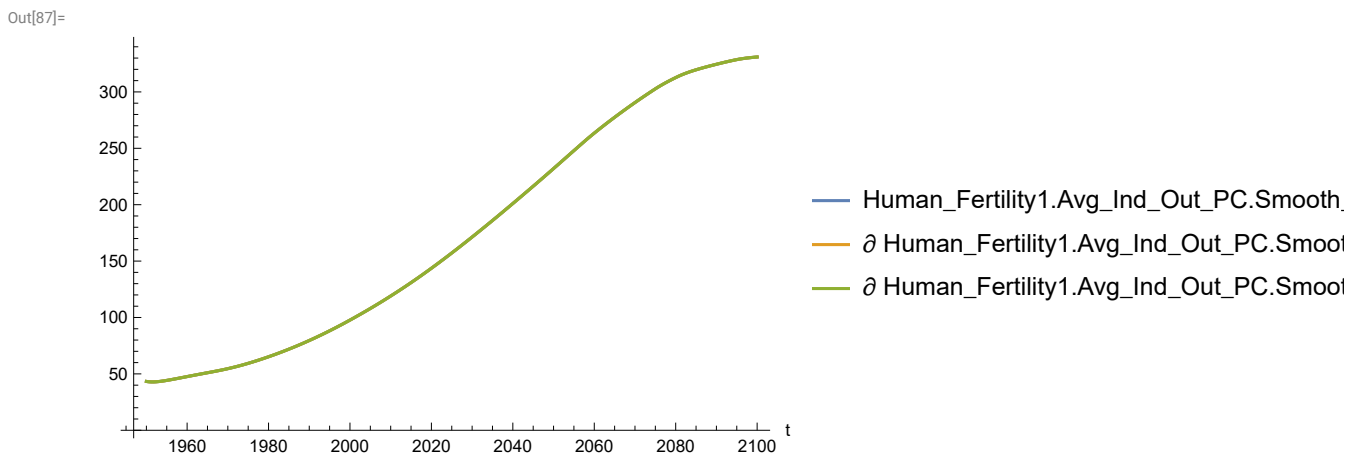
Out[85]=



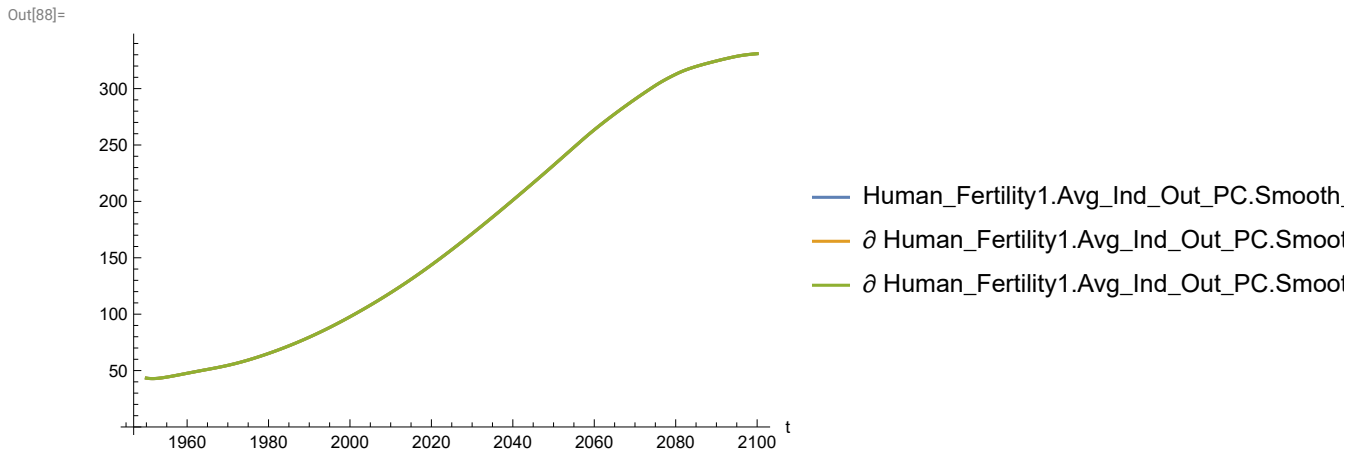
```
In[86]:= SystemModelPlot[simsensdata,
  {"Human_Fertility1.Avg_Ind_Out_PC.Smooth_of_Input.Integrator1.y",
   "Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[4]", percentvar}]
```



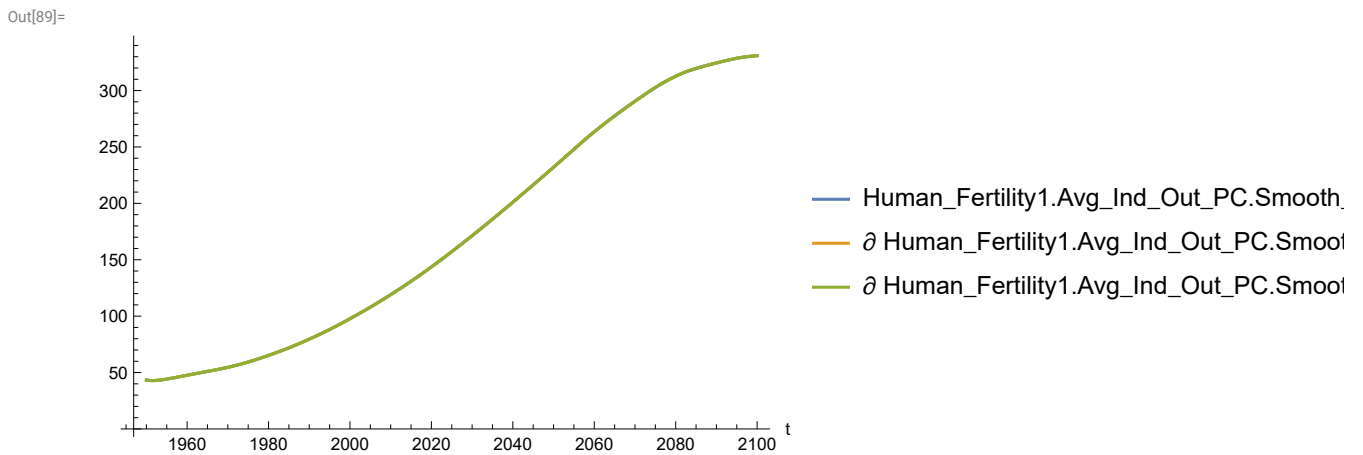
```
In[87]:= SystemModelPlot[simsensdata,
  {"Human_Fertility1.Avg_Ind_Out_PC.Smooth_of_Input.Integrator1.y",
   "Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[5]", percentvar}]
```



```
In[88]:= SystemModelPlot[simsensdata,
  {"Human_Fertility1.Avg_Ind_Out_PC.Smooth_of_Input.Integrator1.y",
   "Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[6]", percentvar}]
```



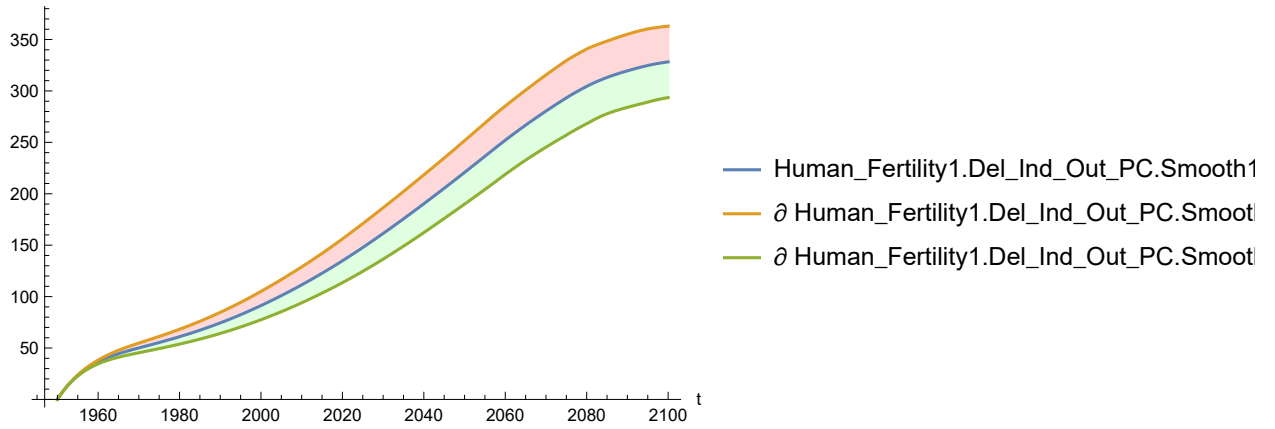
```
In[89]:= SystemModelPlot[simsensdata,
  {"Human_Fertility1.Avg_Ind_Out_PC.Smooth_of_Input.Integrator1.y",
   "Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[7]", percentvar}]
```



Plot the sensitivity of Human_Fertility1.Del_Ind_Out_PC.Smooth1.Integrator1.y to Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals.

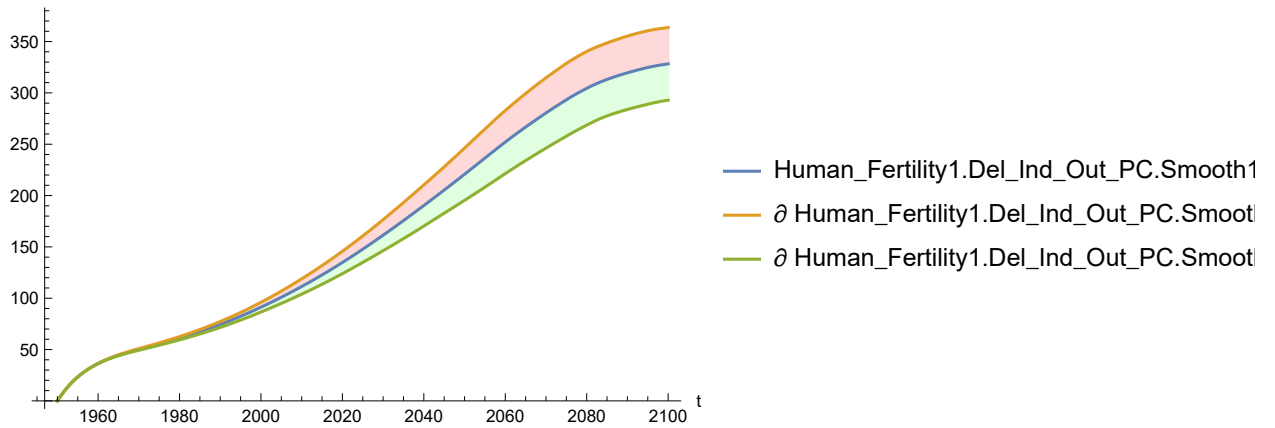
```
In[90]:= SystemModelPlot[simsensdata, {"Human_Fertility1.Del_Ind_Out_PC.Smooth1.Integrator1.y",
"Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[1]", percentvar}]
```

Out[90]=



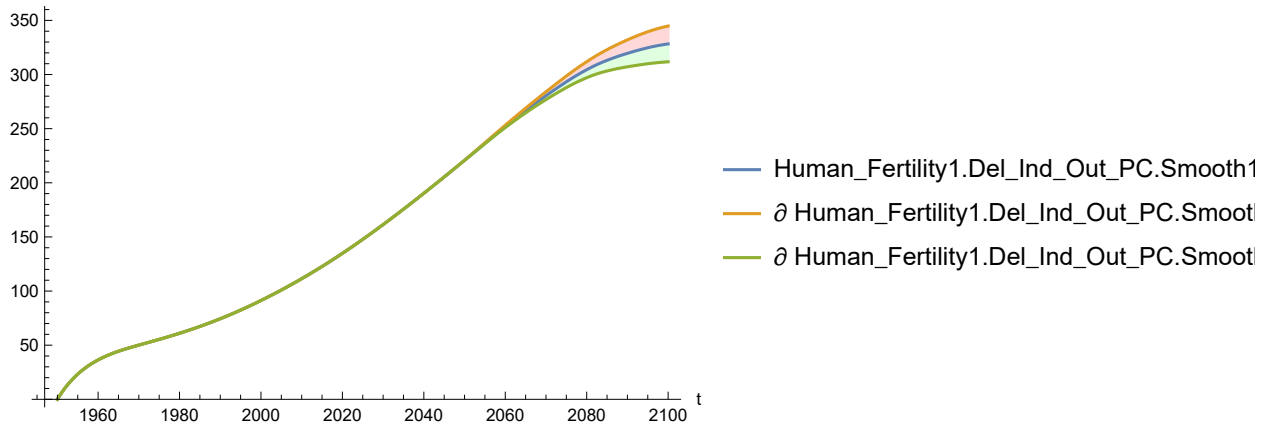
```
In[91]:= SystemModelPlot[simsensdata, {"Human_Fertility1.Del_Ind_Out_PC.Smooth1.Integrator1.y",
"Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[2]", percentvar}]
```

Out[91]=



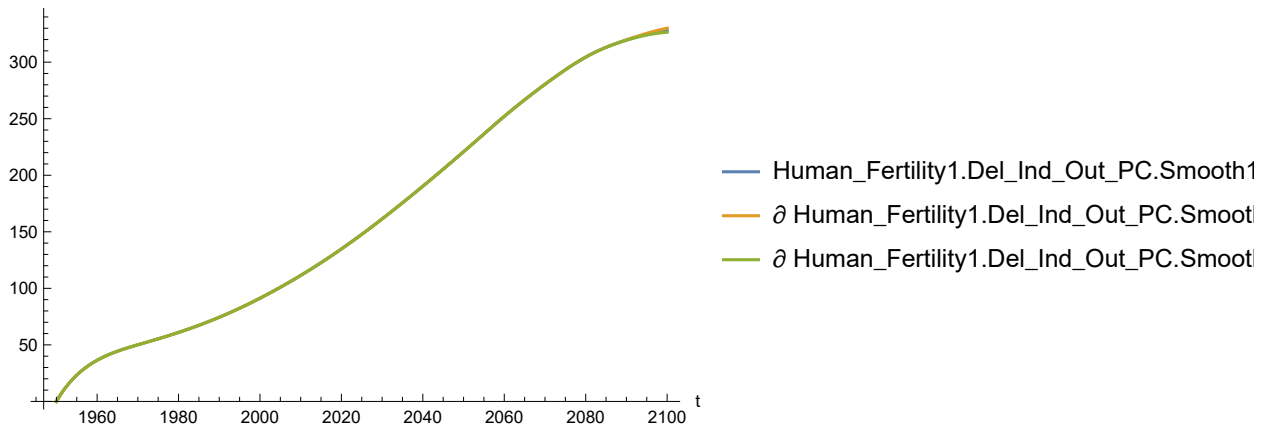
```
In[92]:= SystemModelPlot[simsensdata, {"Human_Fertility1.Del_Ind_Out_PC.Smooth1.Integrator1.y",
"Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[3]", percentvar}]
```

Out[92]=



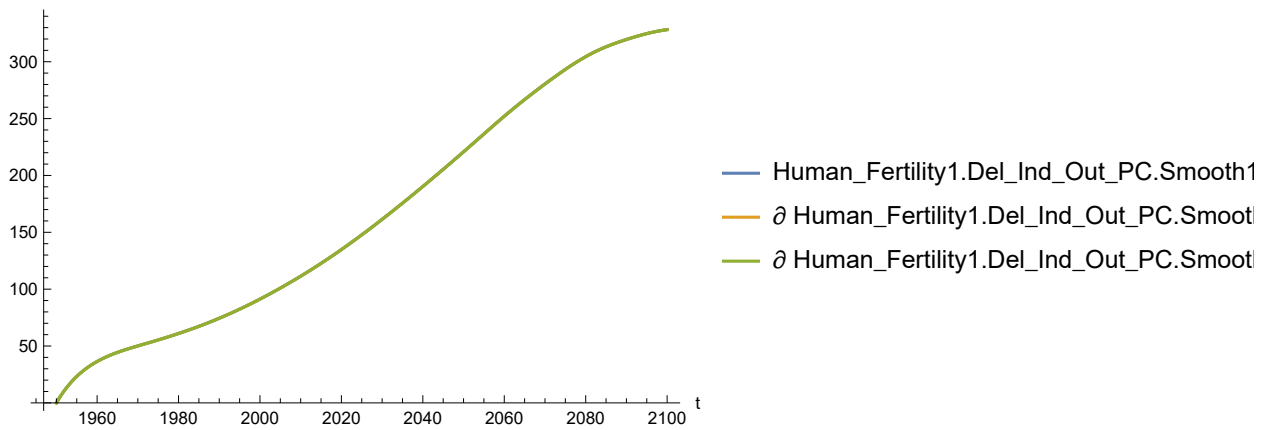
```
In[93]:= SystemModelPlot[simsensdata, {"Human_Fertility1.Del_Ind_Out_PC.Smooth1.Integrator1.y",
"Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[4]", percentvar}]
```

Out[93]=



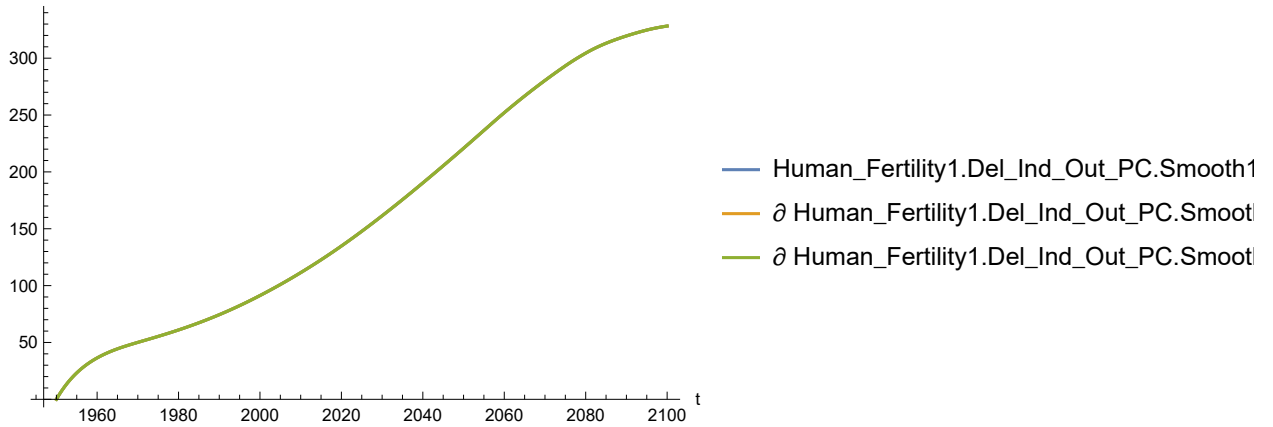
```
In[94]:= SystemModelPlot[simsensdata, {"Human_Fertility1.Del_Ind_Out_PC.Smooth1.Integrator1.y",
"Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[5]", percentvar}]
```

Out[94]=



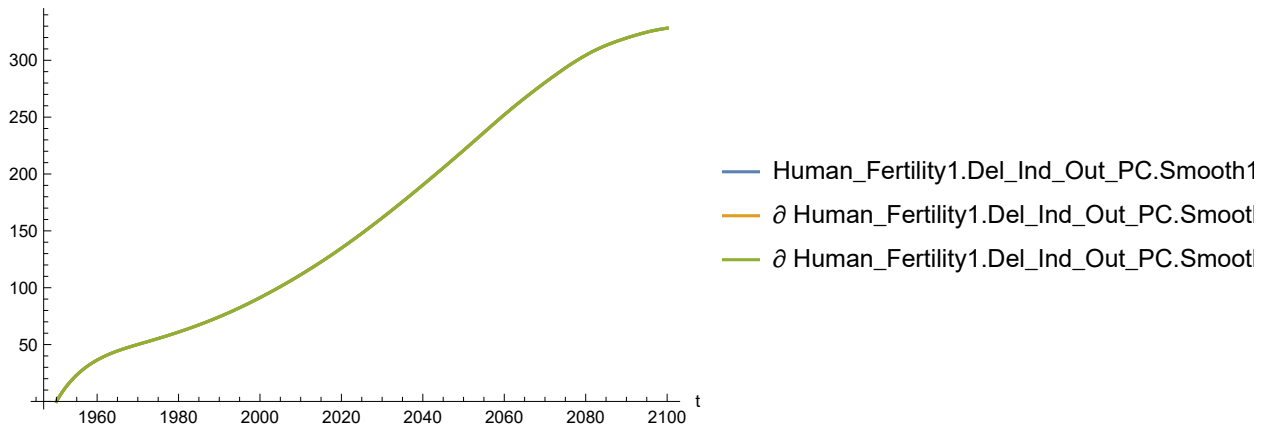
```
In[95]:= SystemModelPlot[simsensdata, {"Human_Fertility1.Del_Ind_Out_PC.Smooth1.Integrator1.y",
"Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[6]", percentvar}]
```

Out[95]=



```
In[96]:= SystemModelPlot[simsensdata, {"Human_Fertility1.De1_Ind_Out_PC.Smooth1.Integrator1.y",
"Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[7]", percentvar}]
```

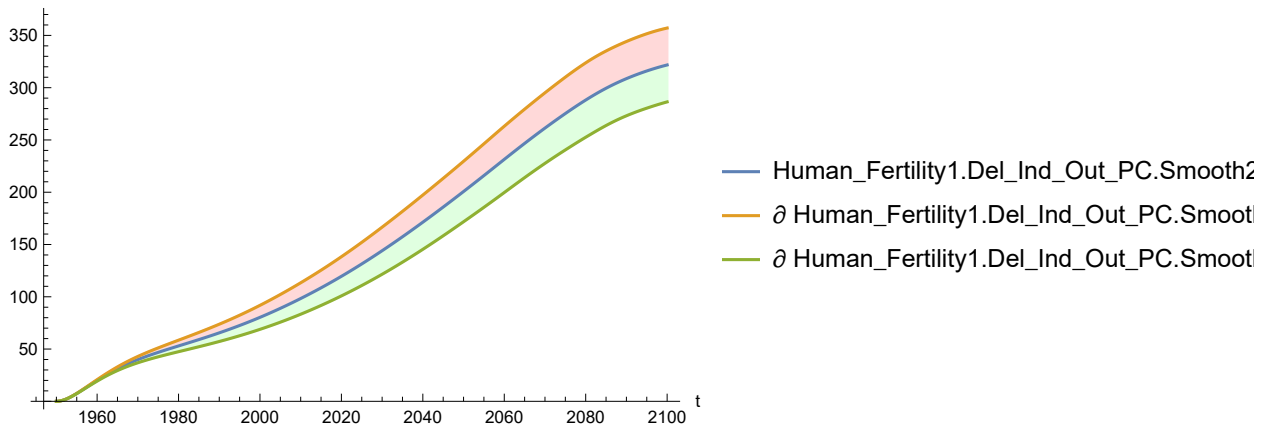
Out[96]=



Plot the sensitivity of Human_Fertility1.De1_Ind_Out_PC.Smooth2.Integrator1.y to Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals.

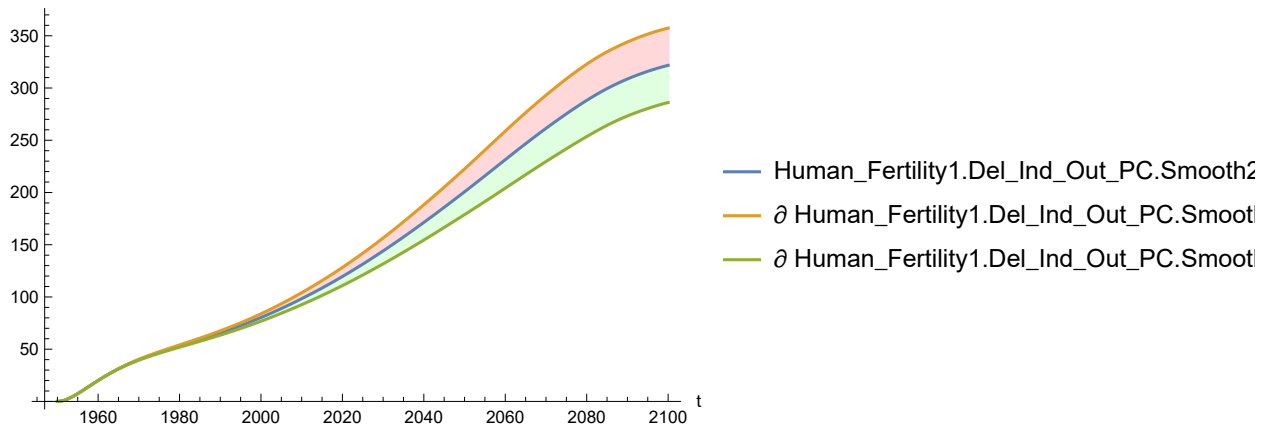
```
In[97]:= SystemModelPlot[simsensdata, {"Human_Fertility1.De1_Ind_Out_PC.Smooth2.Integrator1.y",
"Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[1]", percentvar}]
```

Out[97]=



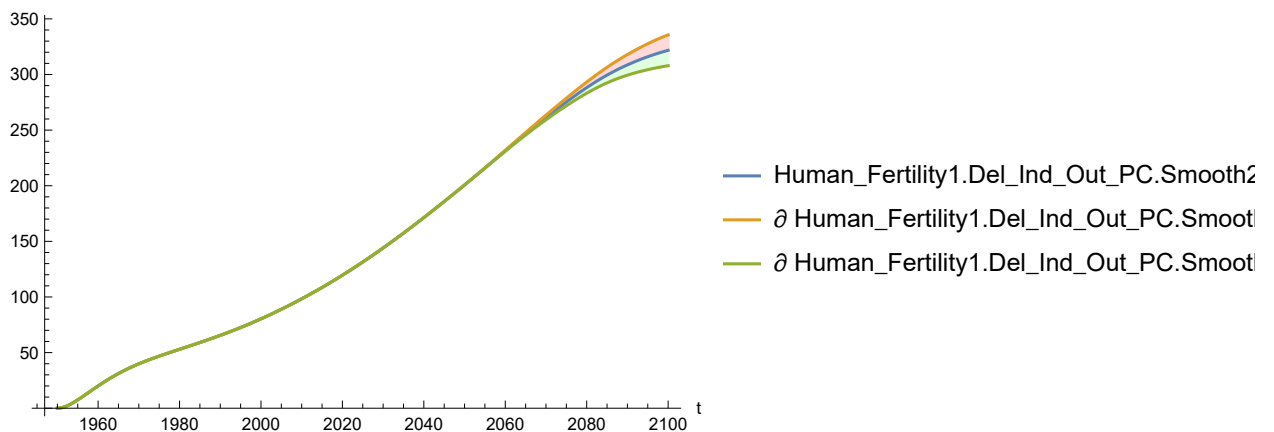
```
In[98]:= SystemModelPlot[simsensdata, {"Human_Fertility1.Del_Ind_Out_PC.Smooth2.Integrator1.y",
"Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[2]", percentvar}]
```

Out[98]=



```
In[99]:= SystemModelPlot[simsensdata, {"Human_Fertility1.Del_Ind_Out_PC.Smooth2.Integrator1.y",
"Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[3]", percentvar}]
```

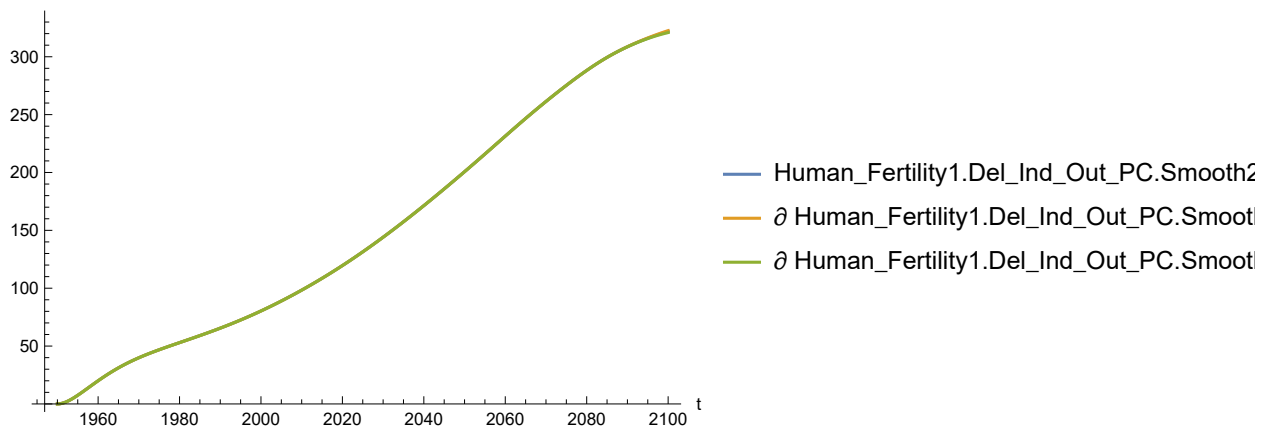
Out[99]=



In[100]=

```
SystemModelPlot[simsensdata, {"Human_Fertility1.Del_Ind_Out_PC.Smooth2.Integrator1.y",
"Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[4]", percentvar}]
```

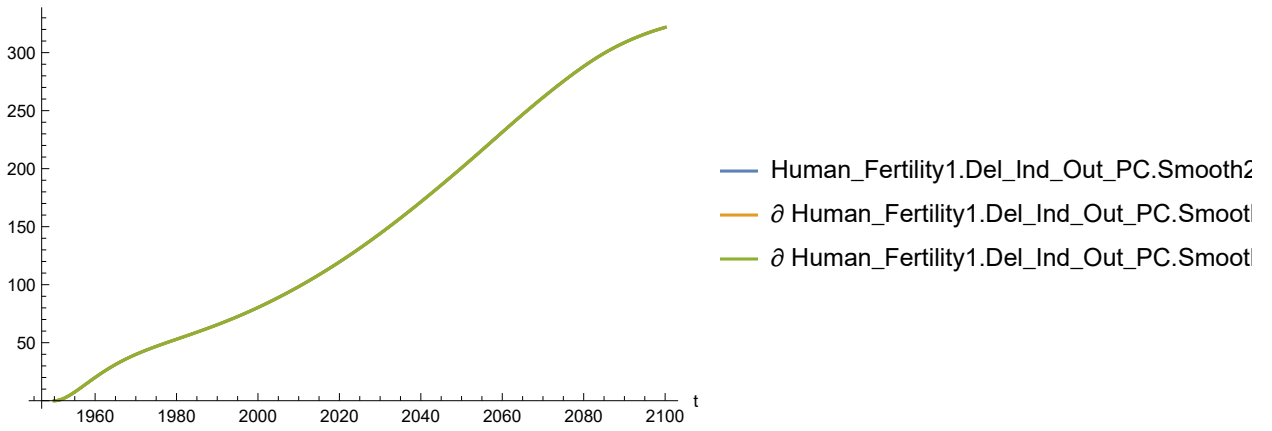
Out[100]=



In[101]:=

```
SystemModelPlot[simsensdata, {"Human_Fertility1.Del_Ind_Out_PC.Smooth2.Integrator1.y",
    "Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[5]", percentvar}]
```

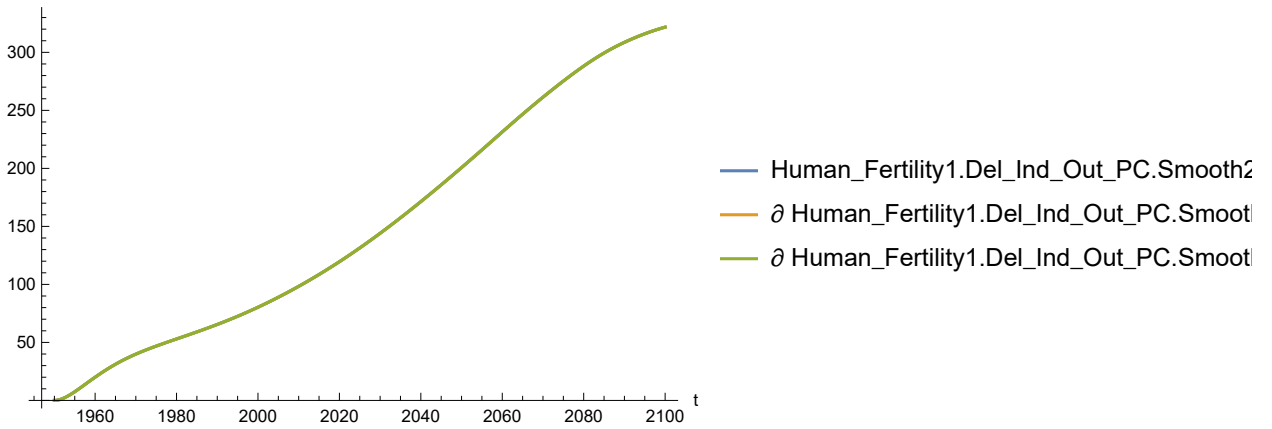
Out[101]=



In[102]:=

```
SystemModelPlot[simsensdata, {"Human_Fertility1.Del_Ind_Out_PC.Smooth2.Integrator1.y",
    "Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[6]", percentvar}]
```

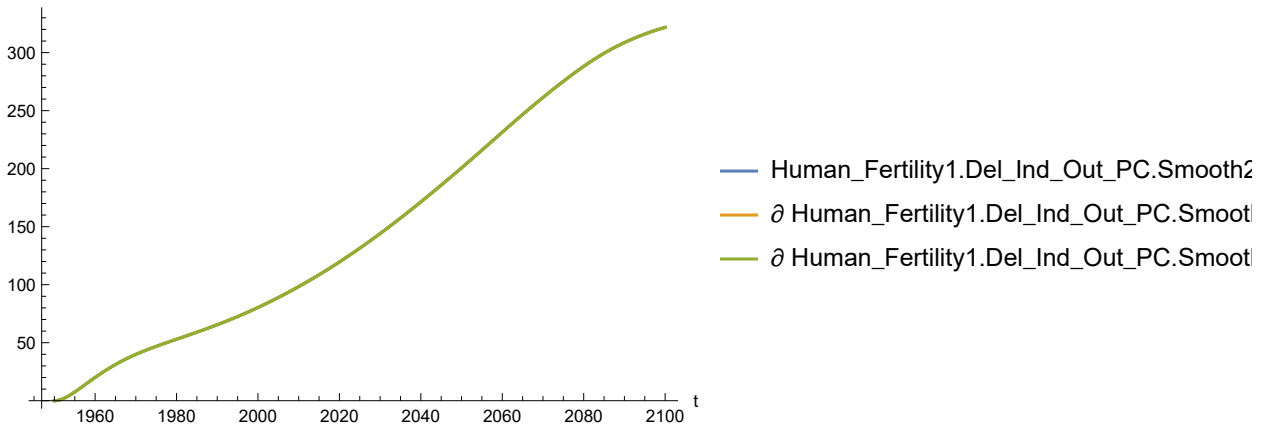
Out[102]=



In[103]:=

```
SystemModelPlot[simsensdata, {"Human_Fertility1.Del_Ind_Out_PC.Smooth2.Integrator1.y",
    "Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[7]", percentvar}]
```

Out[103]=

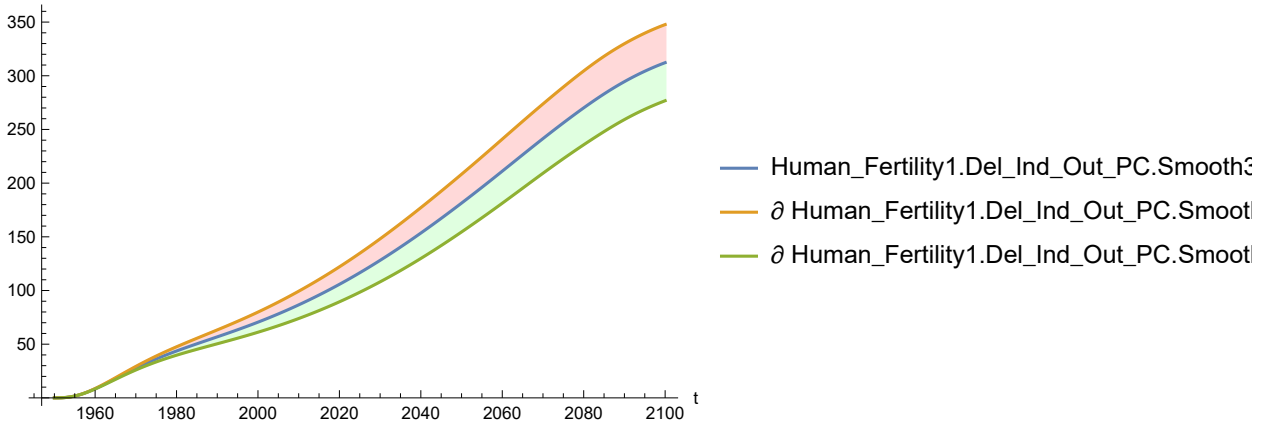


Plot the sensitivity of Human_Fertility1.Del_Ind_Out_PC.Smooth3.Integrator1.y to Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals.

In[104]:=

```
SystemModelPlot[simsensdata, {"Human_Fertility1.Del_Ind_Out_PC.Smooth3.Integrator1.y",
    "Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[1]", percentvar}]
```

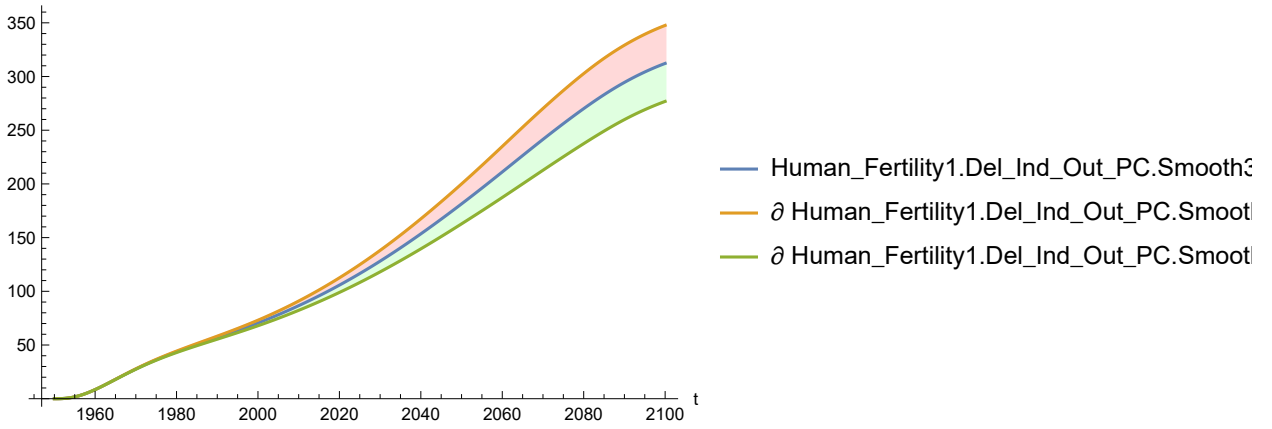
Out[104]=



In[105]:=

```
SystemModelPlot[simsensdata, {"Human_Fertility1.Del_Ind_Out_PC.Smooth3.Integrator1.y",
"Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[2]", percentvar}]
```

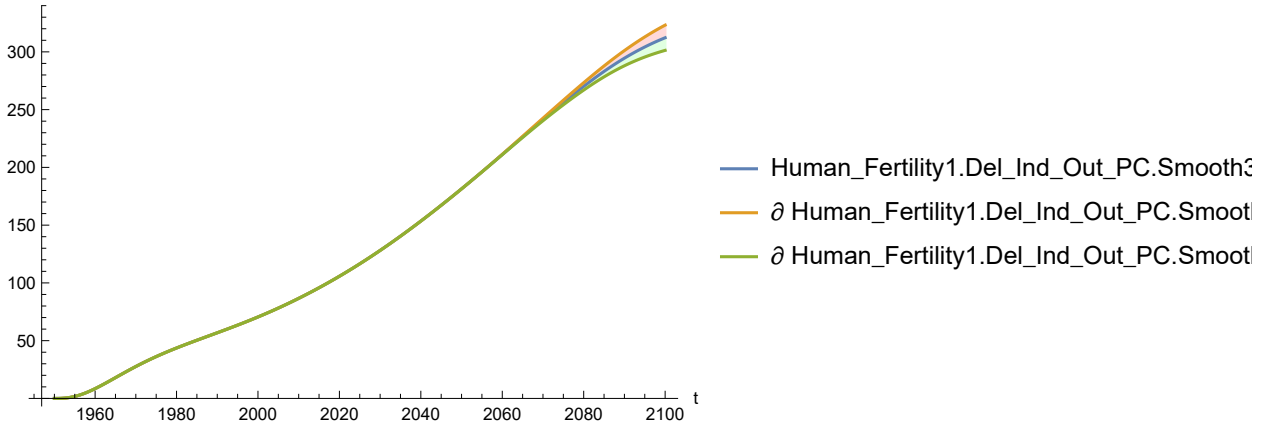
Out[105]=



In[106]:=

```
SystemModelPlot[simsensdata, {"Human_Fertility1.Del_Ind_Out_PC.Smooth3.Integrator1.y",
"Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[3]", percentvar}]
```

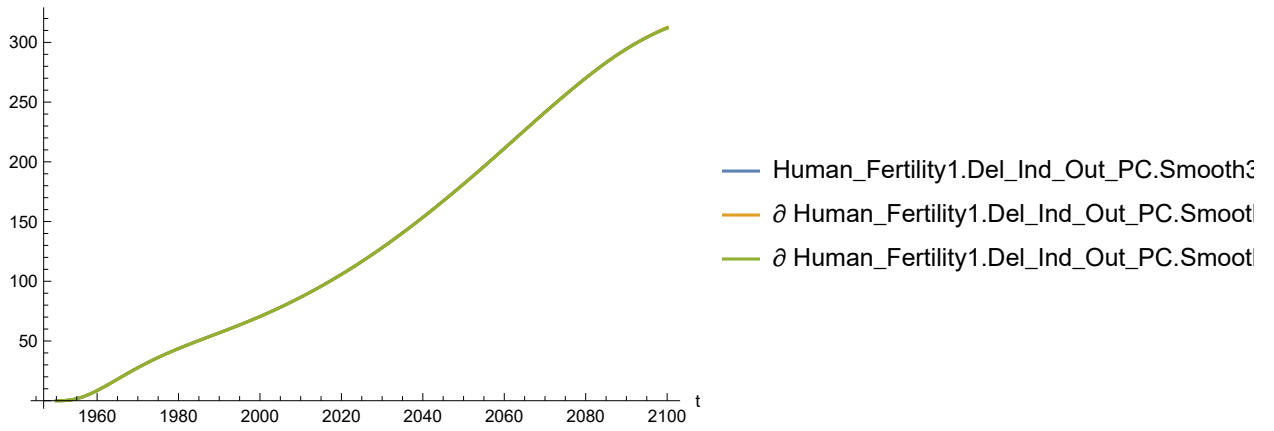
Out[106]=



In[107]:=

```
SystemModelPlot[simsensdata, {"Human_Fertility1.Del_Ind_Out_PC.Smooth3.Integrator1.y",
"Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[4]", percentvar}]
```

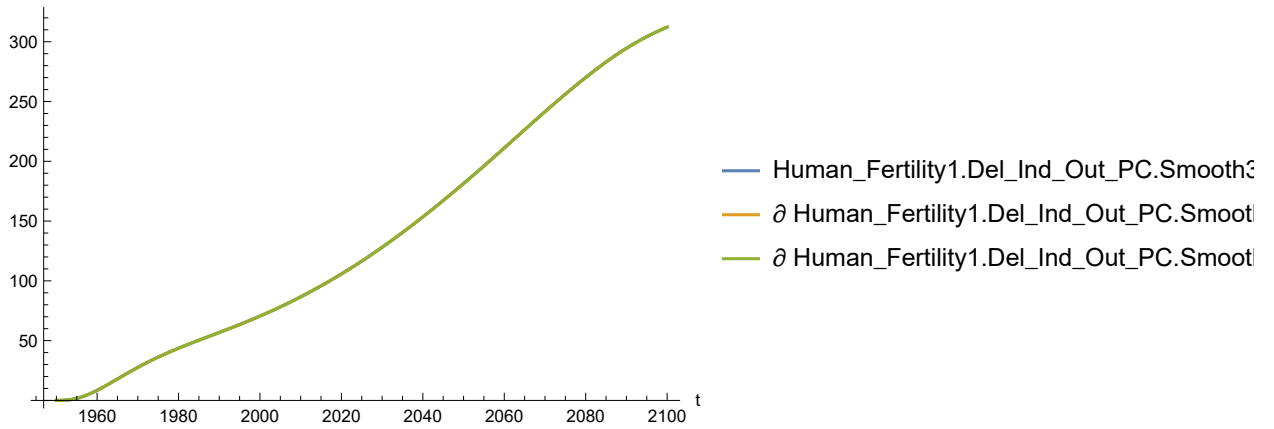
Out[107]=



In[108]:=

```
SystemModelPlot[simsensdata, {"Human_Fertility1.Del_Ind_Out_PC.Smooth3.Integrator1.y",
"Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[5]", percentvar}]
```

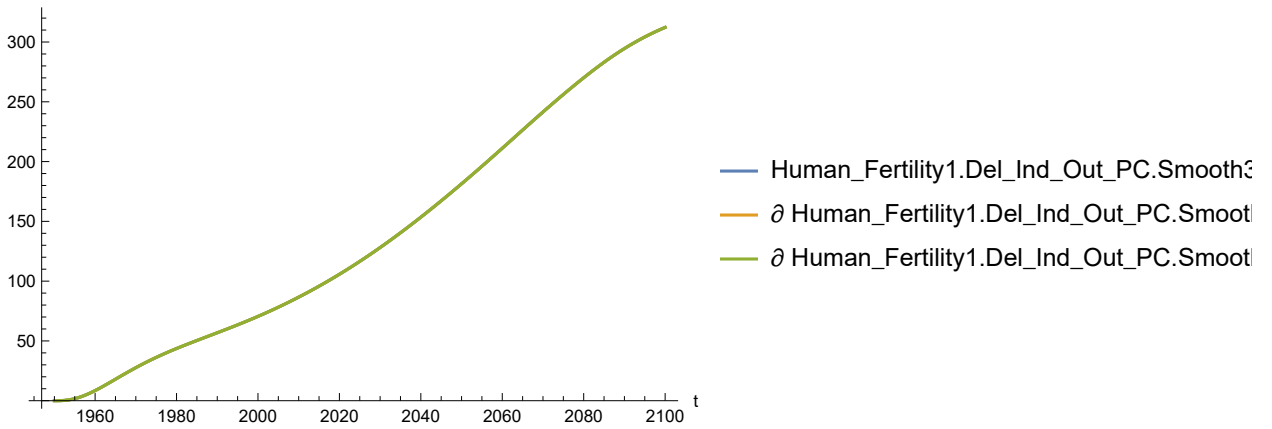
Out[108]=



In[109]:=

```
SystemModelPlot[simsensdata, {"Human_Fertility1.Del_Ind_Out_PC.Smooth3.Integrator1.y",
    "Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[6]", percentvar}]
```

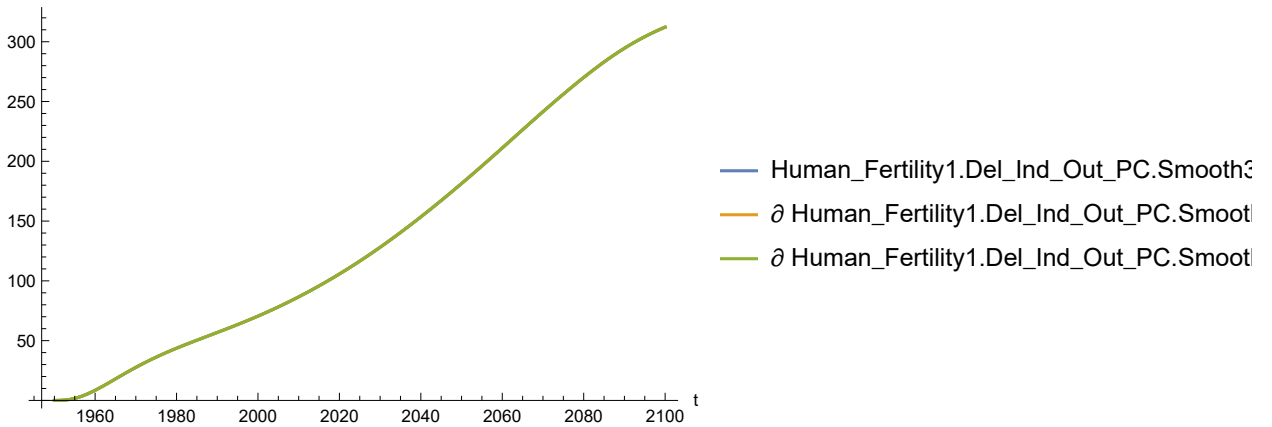
Out[109]=



In[110]:=

```
SystemModelPlot[simsensdata, {"Human_Fertility1.Del_Ind_Out_PC.Smooth3.Integrator1.y",
    "Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[7]", percentvar}]
```

Out[110]=

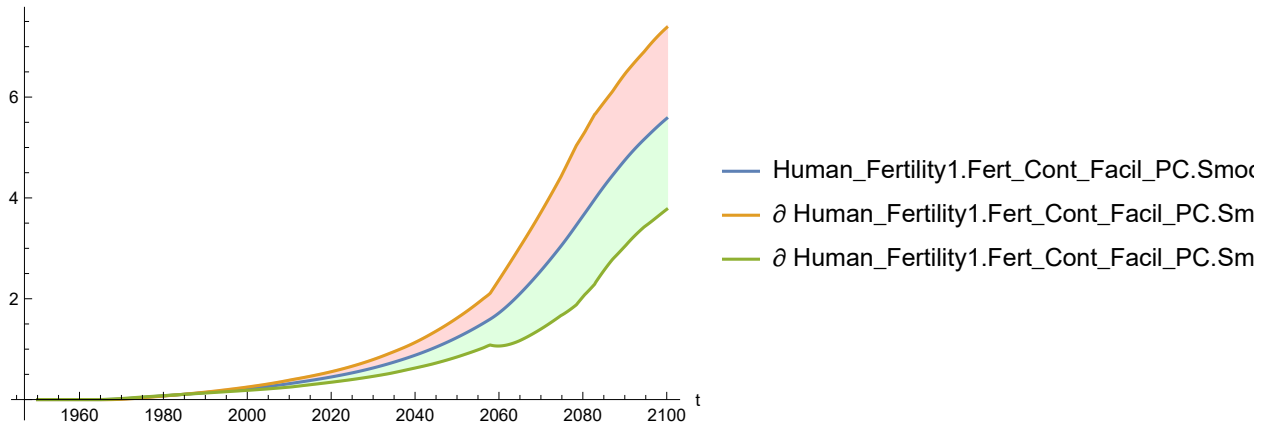


Plot the sensitivity of Human_Fertility1.Fert_Cont_Facil_PC.Smooth1.Integrator1.y to Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals.

In[111]:=

```
SystemModelPlot[simsensdata,
  {"Human_Fertility1.Fert_Cont_Facil_PC.Smooth1.Integrator1.y",
   "Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[1]", percentvar}]
```

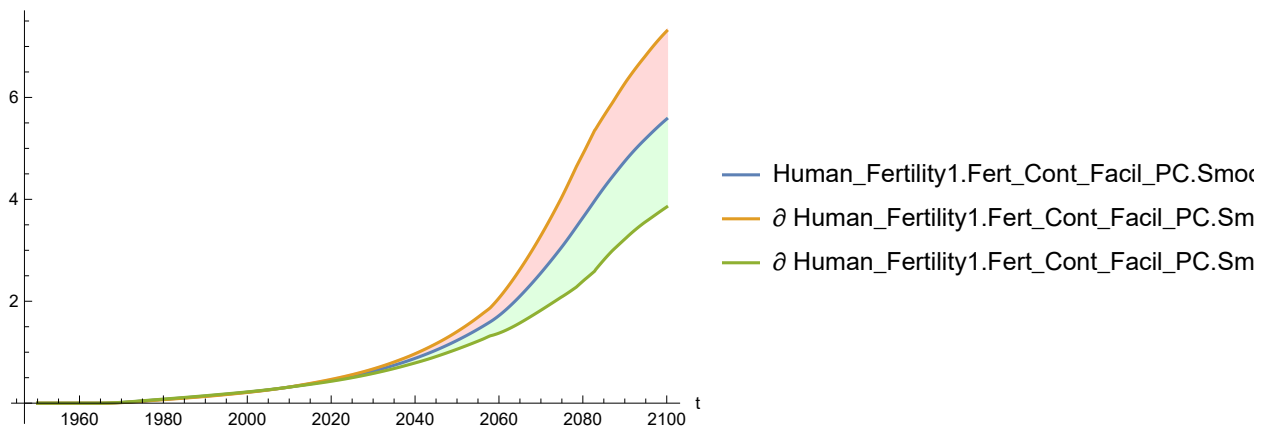
Out[111]=



In[112]:=

```
SystemModelPlot[simsensdata,
  {"Human_Fertility1.Fert_Cont_Facil_PC.Smooth1.Integrator1.y",
   "Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[2]", percentvar}]
```

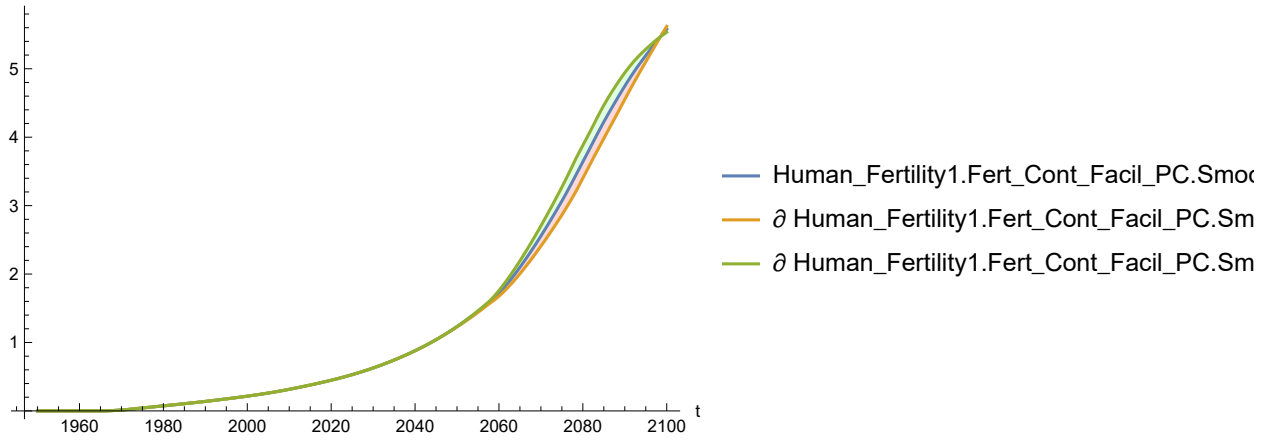
Out[112]=



In[113]:=

```
SystemModelPlot[simsensdata,
  {"Human_Fertility1.Fert_Cont_Facil_PC.Smooth1.Integrator1.y",
   "Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[3]", percentvar}]
```

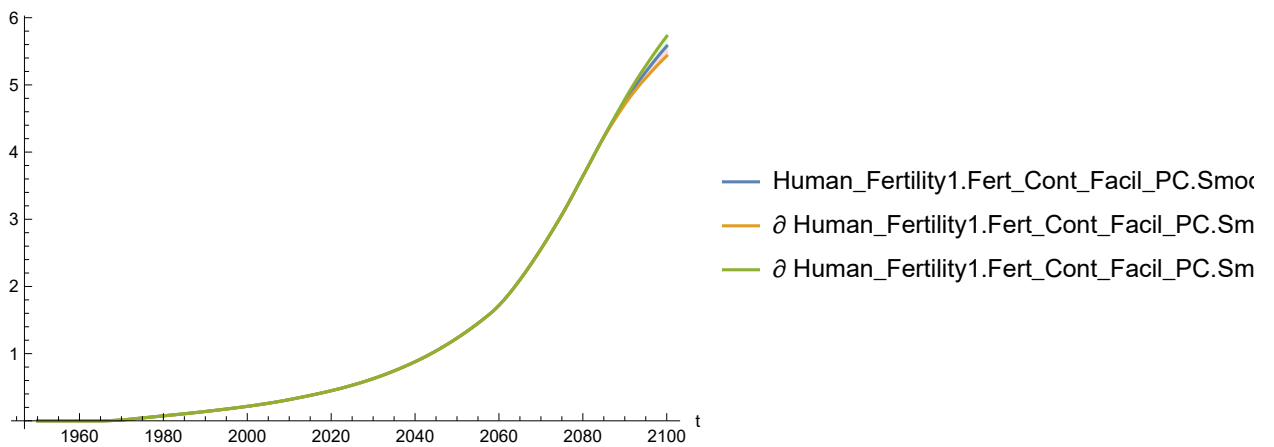
Out[113]=



In[114]:=

```
SystemModelPlot[simsensdata,
  {"Human_Fertility1.Fert_Cont_Facil_PC.Smooth1.Integrator1.y",
   "Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[4]", percentvar}]
```

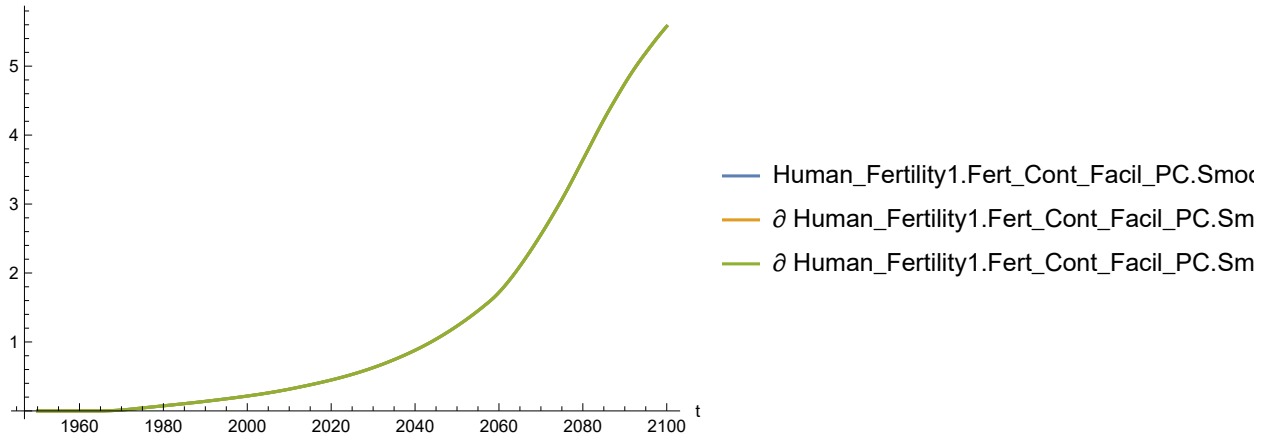
Out[114]=



In[115]:=

```
SystemModelPlot[simsensdata,
  {"Human_Fertility1.Fert_Cont_Facil_PC.Smooth1.Integrator1.y",
   "Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[5]", percentvar}]
```

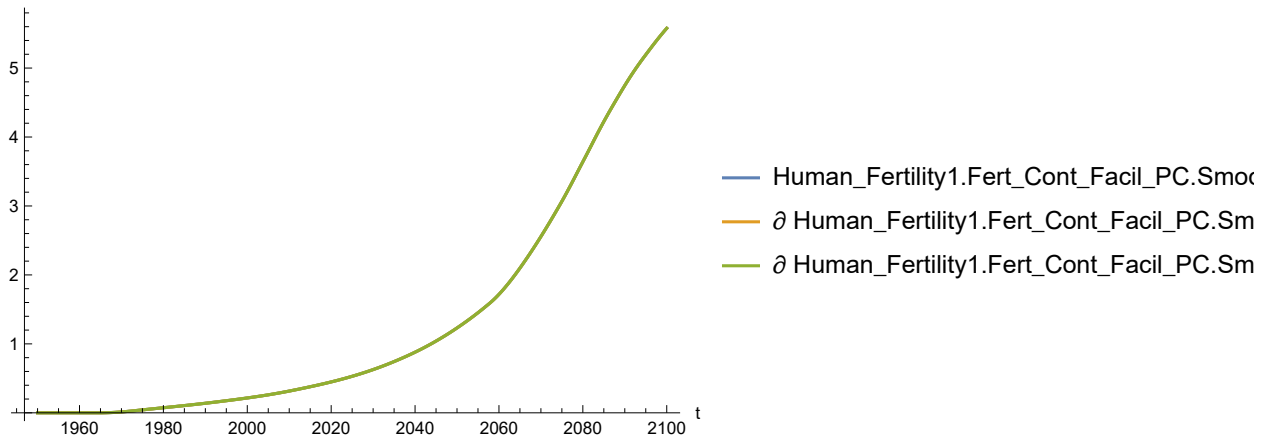
Out[115]=



In[116]:=

```
SystemModelPlot[simsensdata,
  {"Human_Fertility1.Fert_Cont_Facil_PC.Smooth1.Integrator1.y",
   "Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[6]", percentvar}]
```

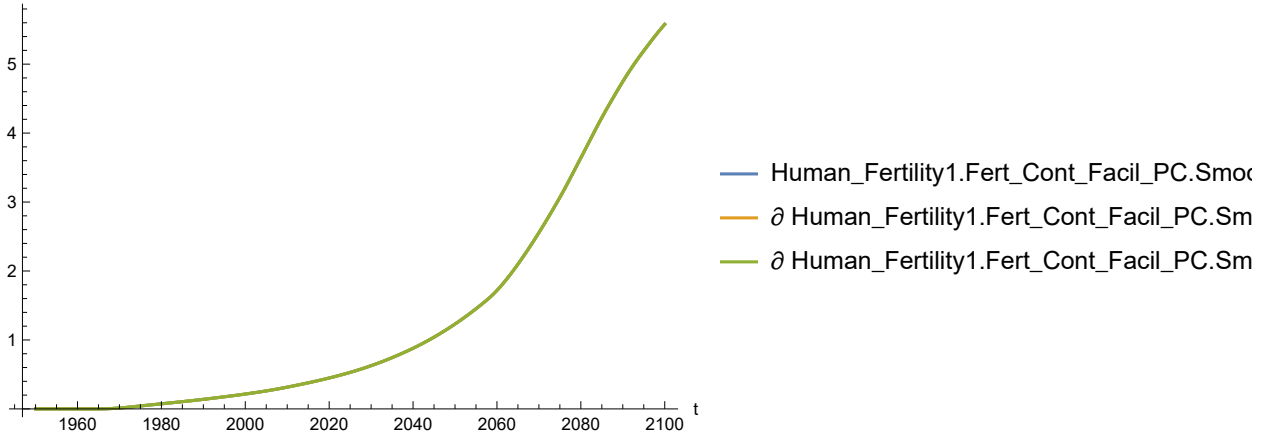
Out[116]=



In[117]:=

```
SystemModelPlot[simsensdata,
  {"Human_Fertility1.Fert_Cont_Facil_PC.Smooth1.Integrator1.y",
   "Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[7]", percentvar}]
```

Out[117]=

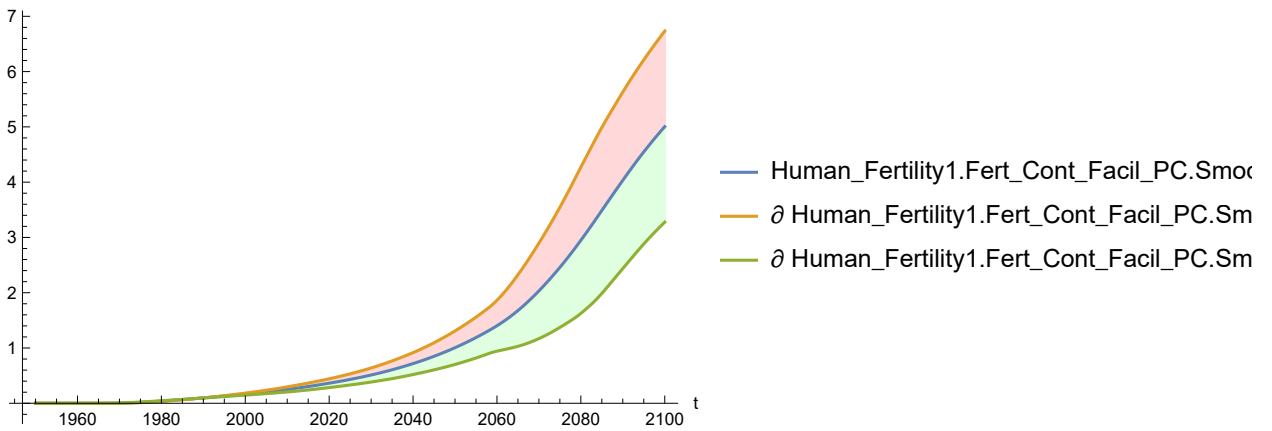


Plot the sensitivity of Human_Fertility1.Fert_Cont_Facil_PC.Smooth2.Integrator1.y to Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals.

In[118]:=

```
SystemModelPlot[simsensdata,
  {"Human_Fertility1.Fert_Cont_Facil_PC.Smooth2.Integrator1.y",
   "Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[1]", percentvar}]
```

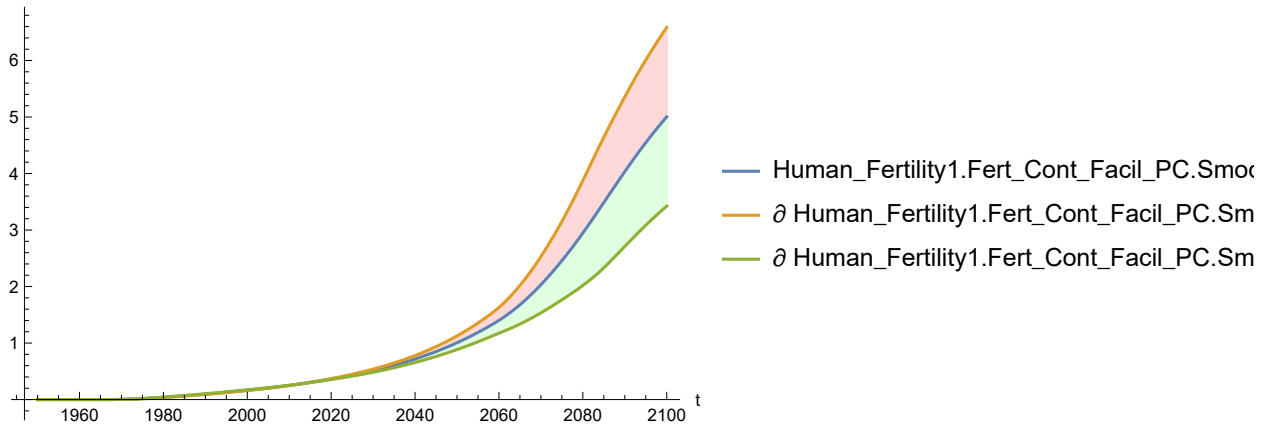
Out[118]=



In[119]:=

```
SystemModelPlot[simsensdata,
  {"Human_Fertility1.Fert_Cont_Facil_PC.Smooth2.Integrator1.y",
   "Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[2]", percentvar}]
```

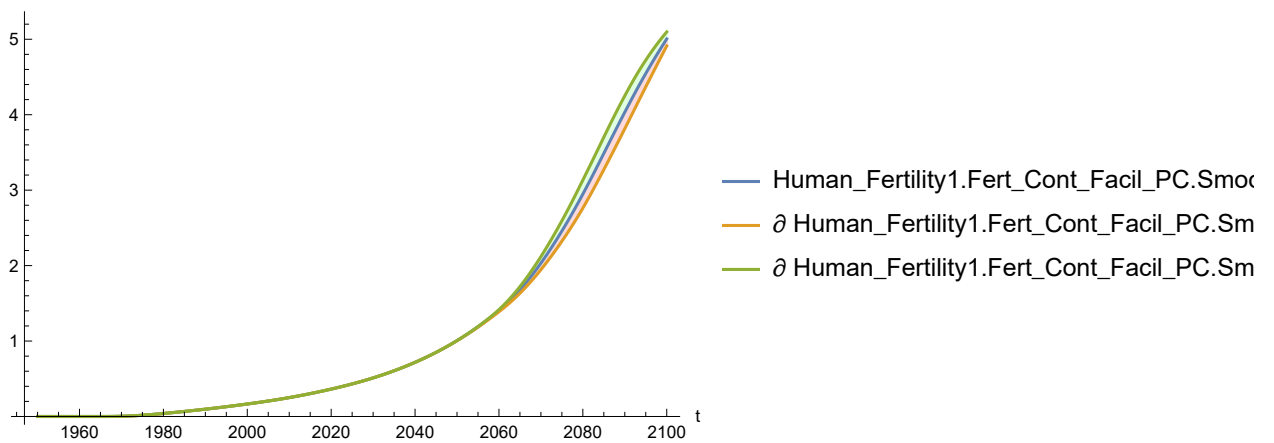
Out[119]=



In[120]:=

```
SystemModelPlot[simsensdata,
  {"Human_Fertility1.Fert_Cont_Facil_PC.Smooth2.Integrator1.y",
   "Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[3]", percentvar}]
```

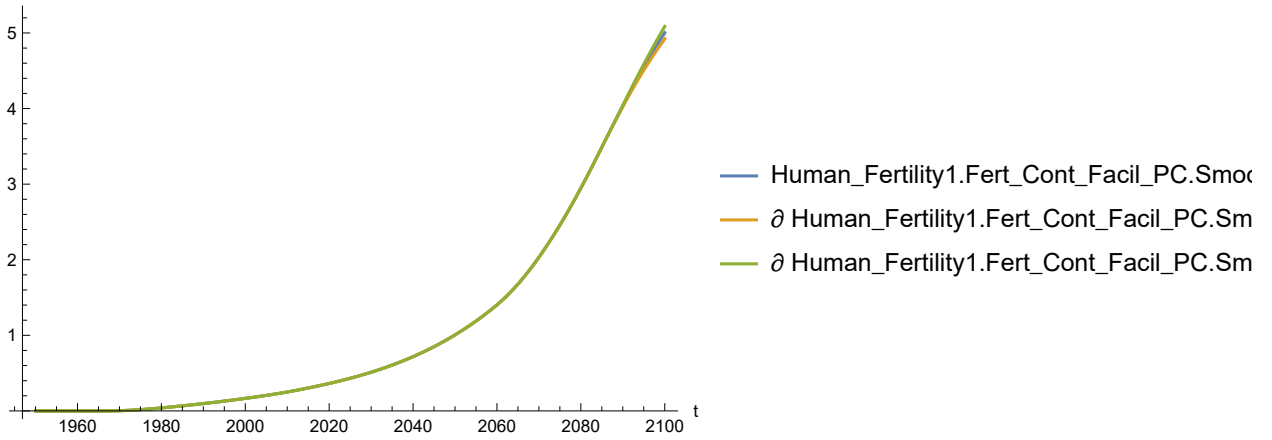
Out[120]=



In[121]:=

```
SystemModelPlot[simsensdata,
  {"Human_Fertility1.Fert_Cont_Facil_PC.Smooth2.Integrator1.y",
   "Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[4]", percentvar}]
```

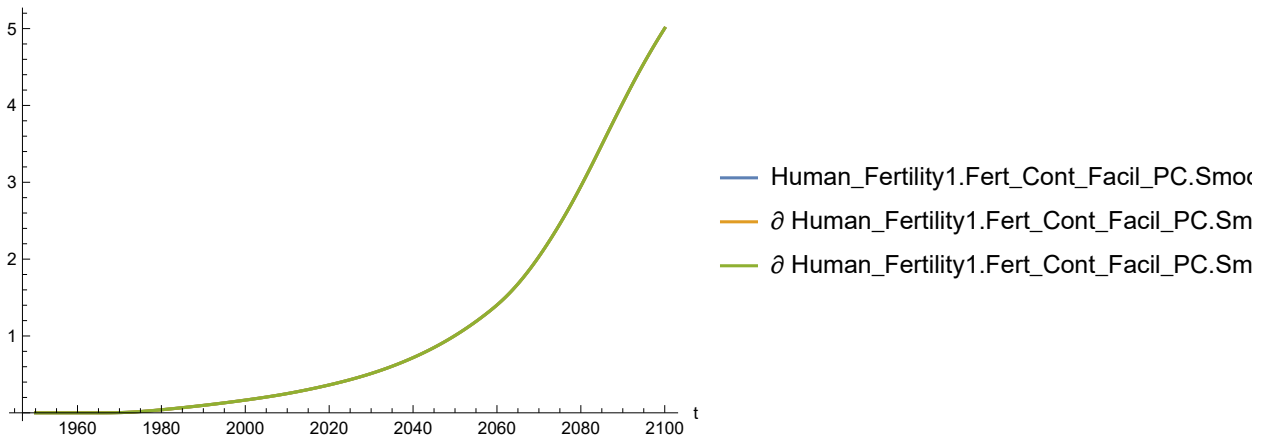
Out[121]=



In[122]:=

```
SystemModelPlot[simsensdata,
  {"Human_Fertility1.Fert_Cont_Facil_PC.Smooth2.Integrator1.y",
   "Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[5]", percentvar}]
```

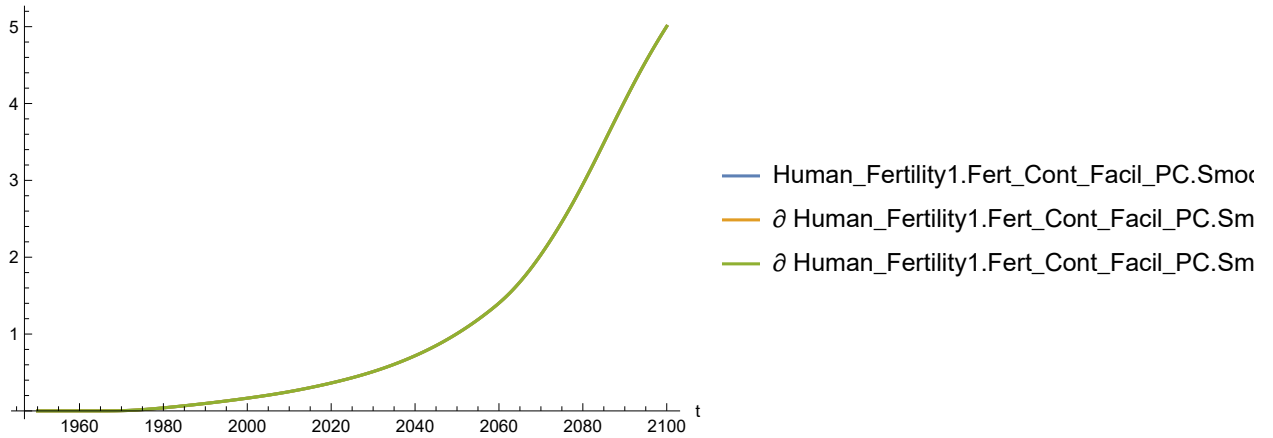
Out[122]=



In[123]:=

```
SystemModelPlot[simsensdata,
  {"Human_Fertility1.Fert_Cont_Facil_PC.Smooth2.Integrator1.y",
   "Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[6]", percentvar}]
```

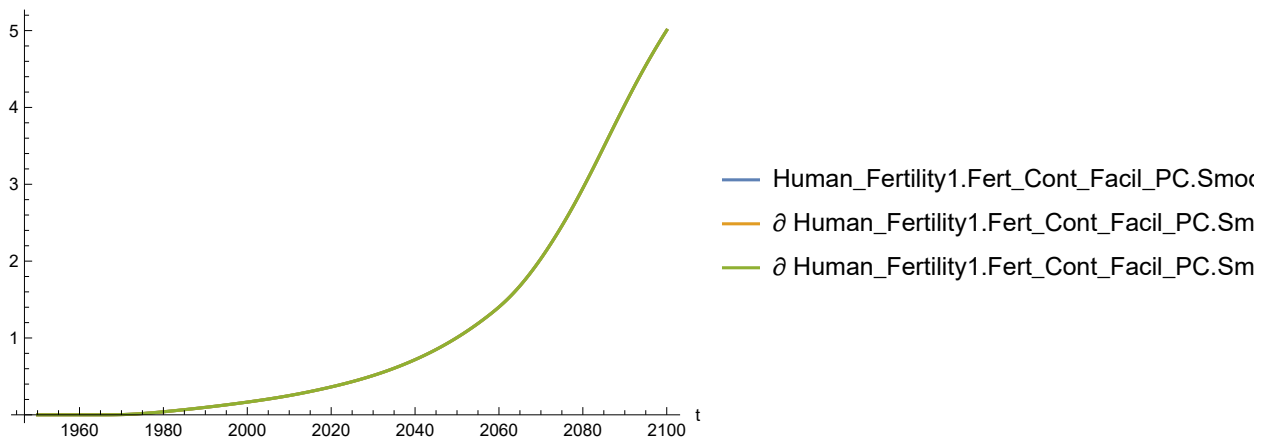
Out[123]=



In[124]:=

```
SystemModelPlot[simsensdata,
  {"Human_Fertility1.Fert_Cont_Facil_PC.Smooth2.Integrator1.y",
   "Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[7]", percentvar}]
```

Out[124]=

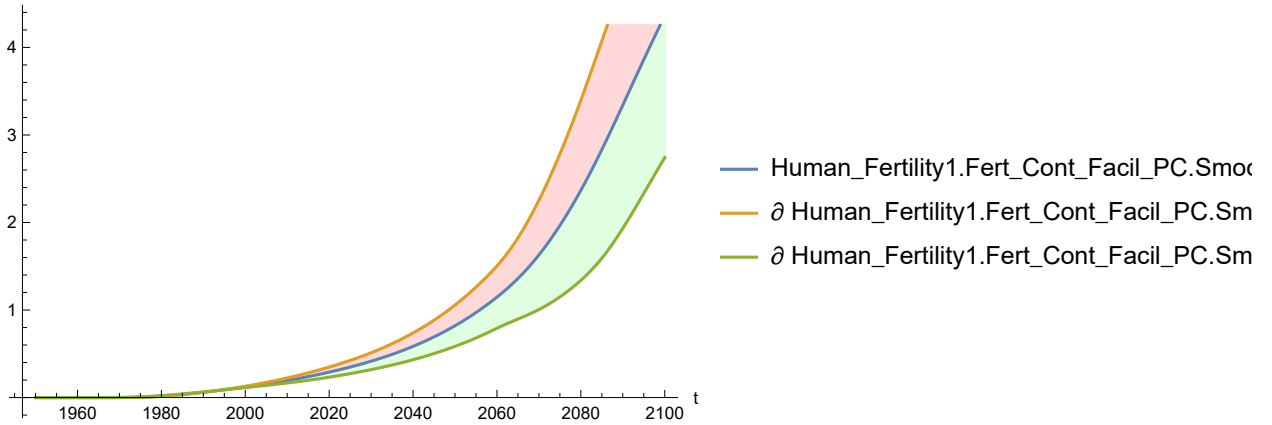


Plot the sensitivity of Human_Fertility1.Fert_Cont_Facil_PC.Smooth3.Integrator1.y to Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals.

In[125]:=

```
SystemModelPlot[simsensdata,
  {"Human_Fertility1.Fert_Cont_Facil_PC.Smooth3.Integrator1.y",
   "Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[1]", percentvar}]
```

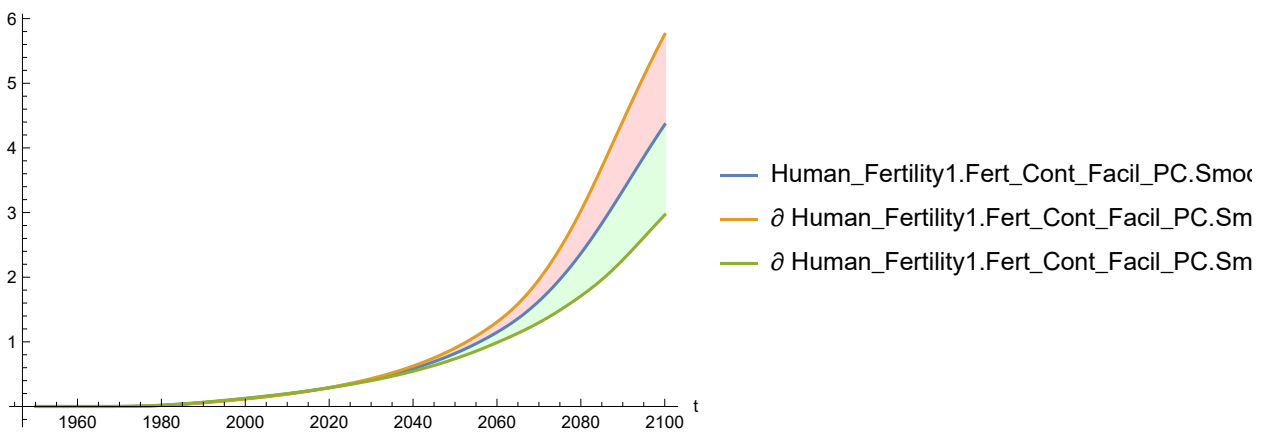
Out[125]=



In[126]:=

```
SystemModelPlot[simsensdata,
  {"Human_Fertility1.Fert_Cont_Facil_PC.Smooth3.Integrator1.y",
   "Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[2]", percentvar}]
```

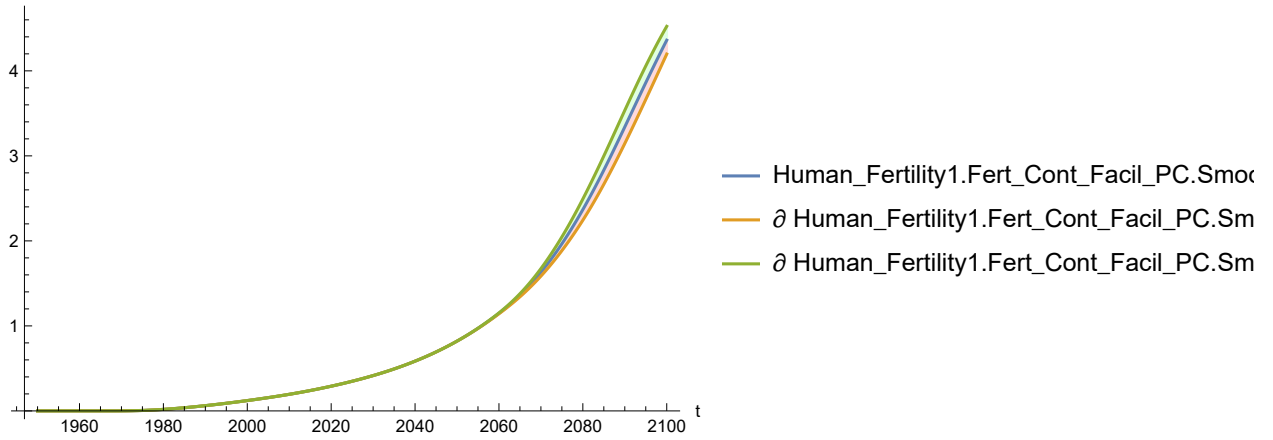
Out[126]=



In[127]:=

```
SystemModelPlot[simsensdata,
  {"Human_Fertility1.Fert_Cont_Facil_PC.Smooth3.Integrator1.y",
   "Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[3]", percentvar}]
```

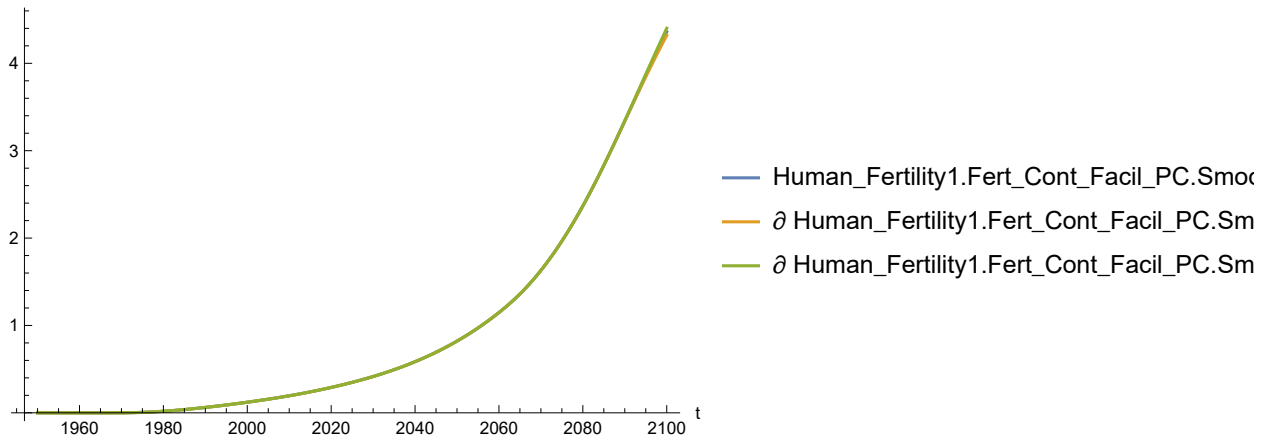
Out[127]=



In[128]:=

```
SystemModelPlot[simsensdata,
  {"Human_Fertility1.Fert_Cont_Facil_PC.Smooth3.Integrator1.y",
   "Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[4]", percentvar}]
```

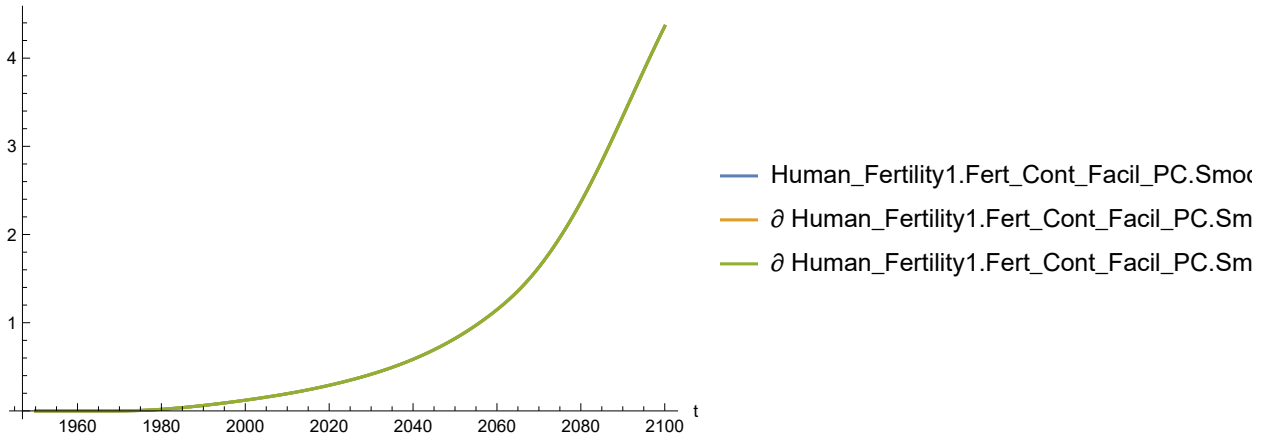
Out[128]=



In[129]:=

```
SystemModelPlot[simsensdata,
  {"Human_Fertility1.Fert_Cont_Facil_PC.Smooth3.Integrator1.y",
   "Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[5]", percentvar}]
```

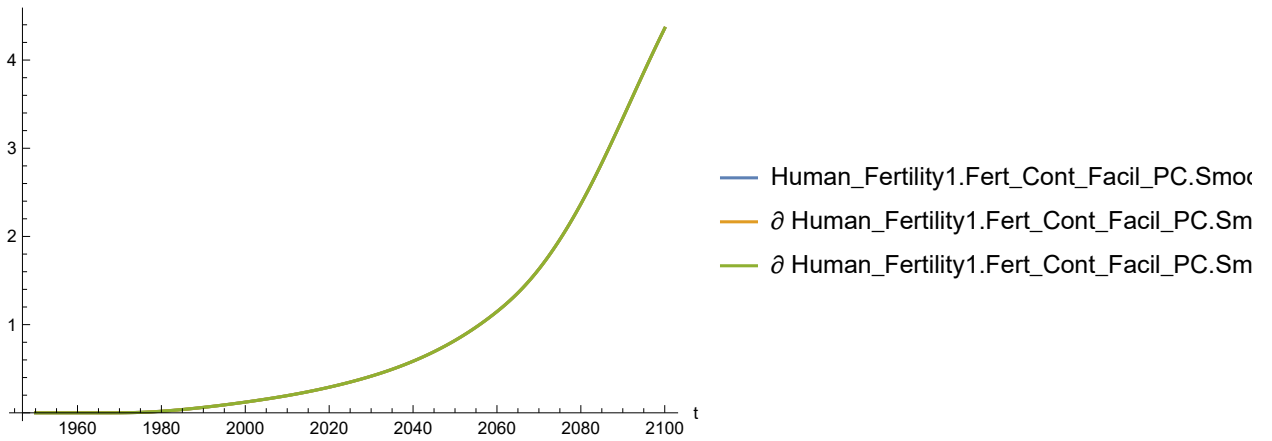
Out[129]=



In[130]:=

```
SystemModelPlot[simsensdata,
  {"Human_Fertility1.Fert_Cont_Facil_PC.Smooth3.Integrator1.y",
   "Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[6]", percentvar}]
```

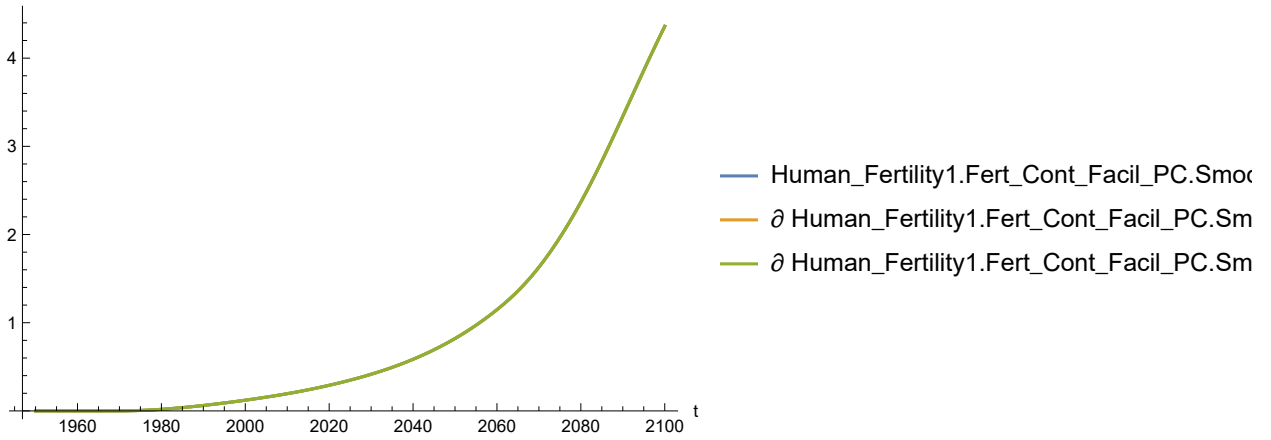
Out[130]=



In[131]:=

```
SystemModelPlot[simsensdata,
  {"Human_Fertility1.Fert_Cont_Facil_PC.Smooth3.Integrator1.y",
   "Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[7]", percentvar}]
```

Out[131]=

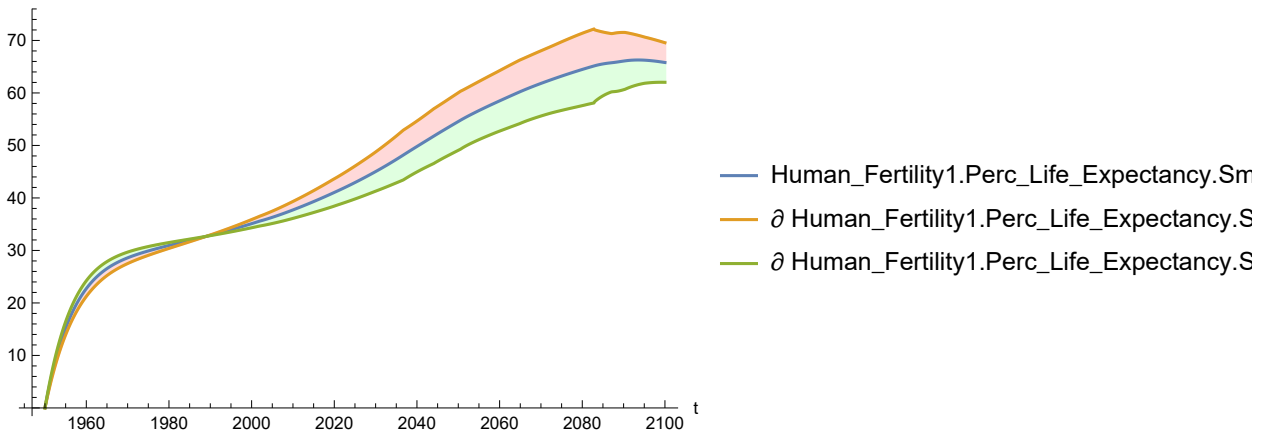


Plot the sensitivity of Human_Fertility1.Perc_Life_Expectancy.Smooth1.Integrator1.y to Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals.

In[132]:=

```
SystemModelPlot[simsensdata,
  {"Human_Fertility1.Perc_Life_Expectancy.Smooth1.Integrator1.y",
   "Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[1]", percentvar}]
```

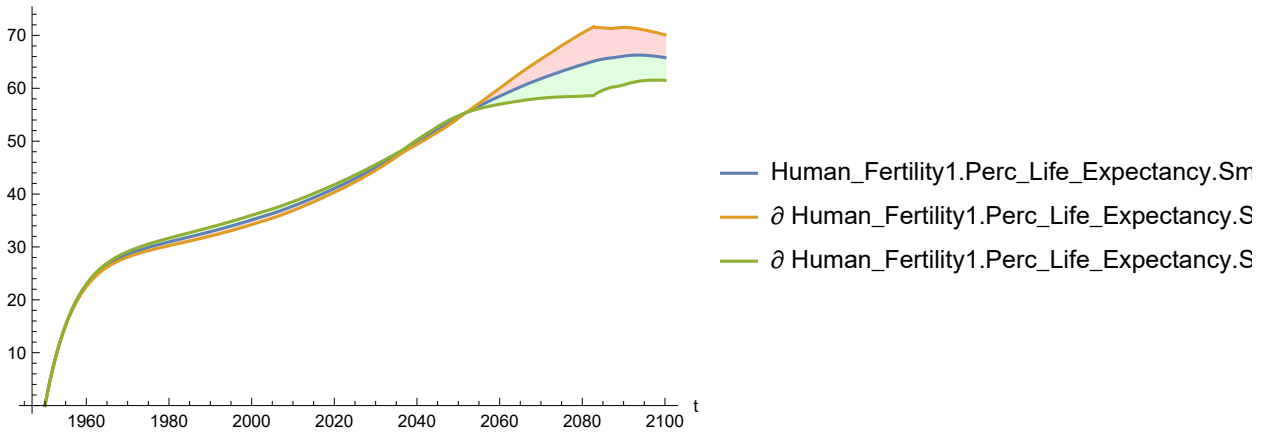
Out[132]=



In[133]:=

```
SystemModelPlot[simsensdata,
  {"Human_Fertility1.Perc_Life_Expectancy.Smooth1.Integrator1.y",
   "Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[2]", percentvar}]
```

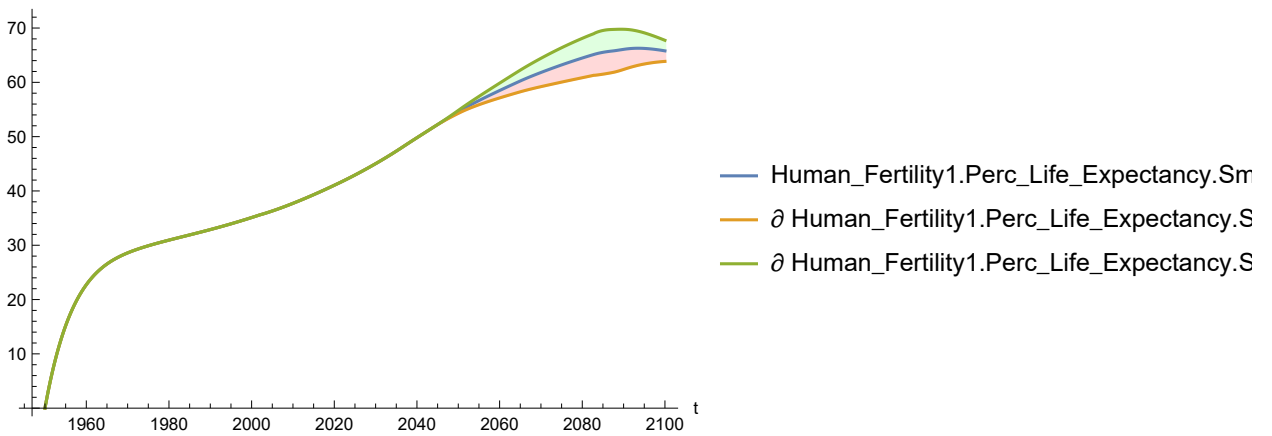
Out[133]:=



In[134]:=

```
SystemModelPlot[simsensdata,
  {"Human_Fertility1.Perc_Life_Expectancy.Smooth1.Integrator1.y",
   "Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[3]", percentvar}]
```

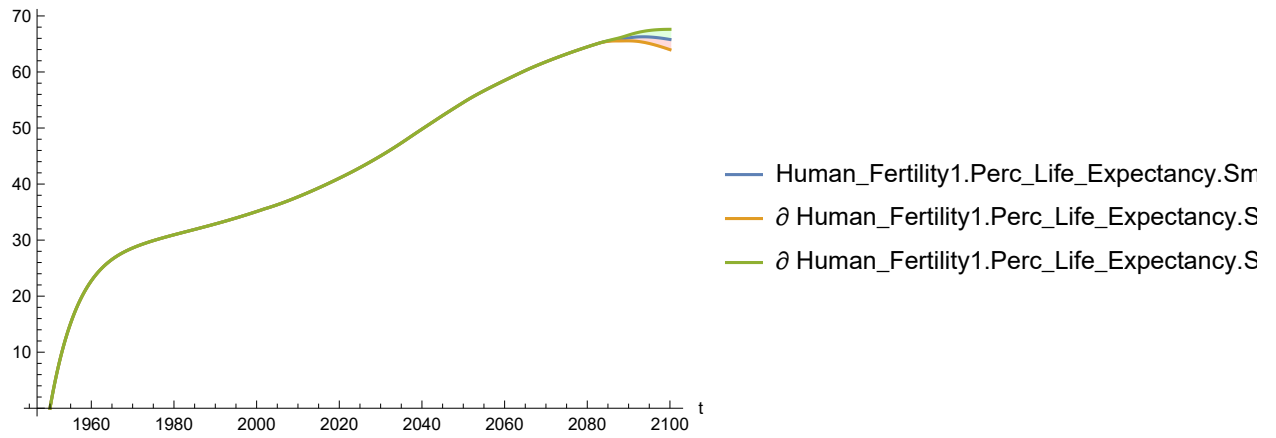
Out[134]:=



In[135]:=

```
SystemModelPlot[simsensdata,
  {"Human_Fertility1.Perc_Life_Expectancy.Smooth1.Integrator1.y",
   "Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[4]", percentvar}]
```

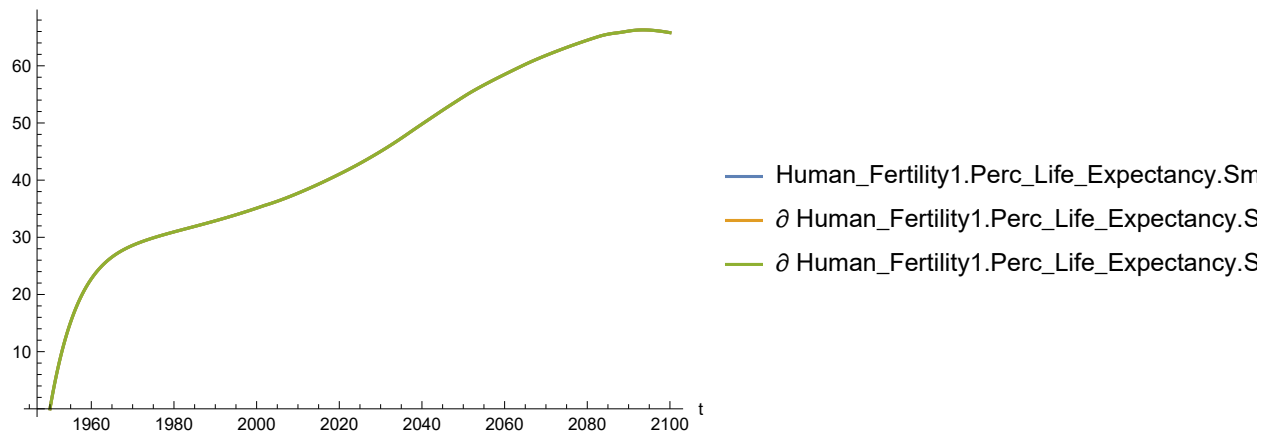
Out[135]=



In[136]:=

```
SystemModelPlot[simsensdata,
  {"Human_Fertility1.Perc_Life_Expectancy.Smooth1.Integrator1.y",
   "Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[5]", percentvar}]
```

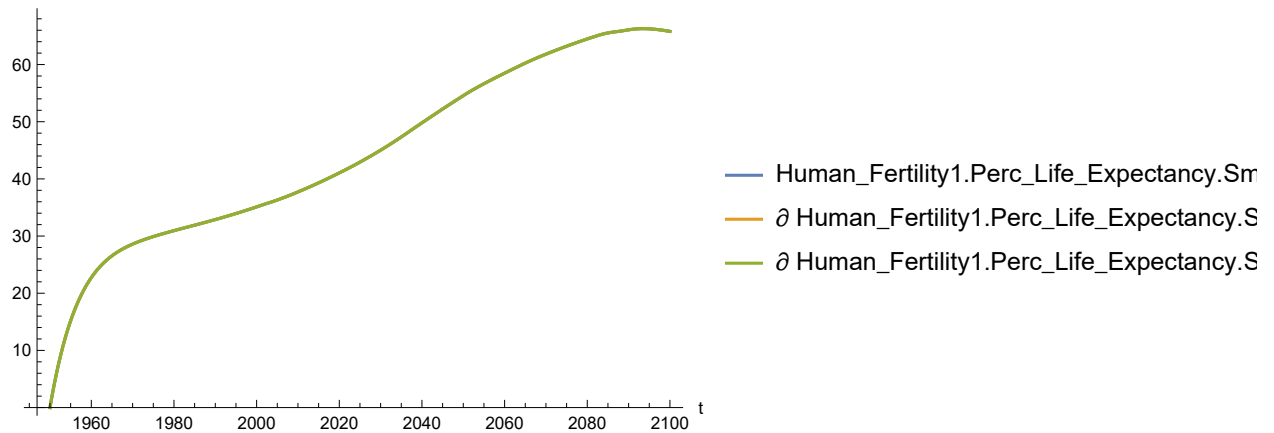
Out[136]=



In[137]:=

```
SystemModelPlot[simsensdata,
  {"Human_Fertility1.Perc_Life_Expectancy.Smooth1.Integrator1.y",
   "Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[6]", percentvar}]
```

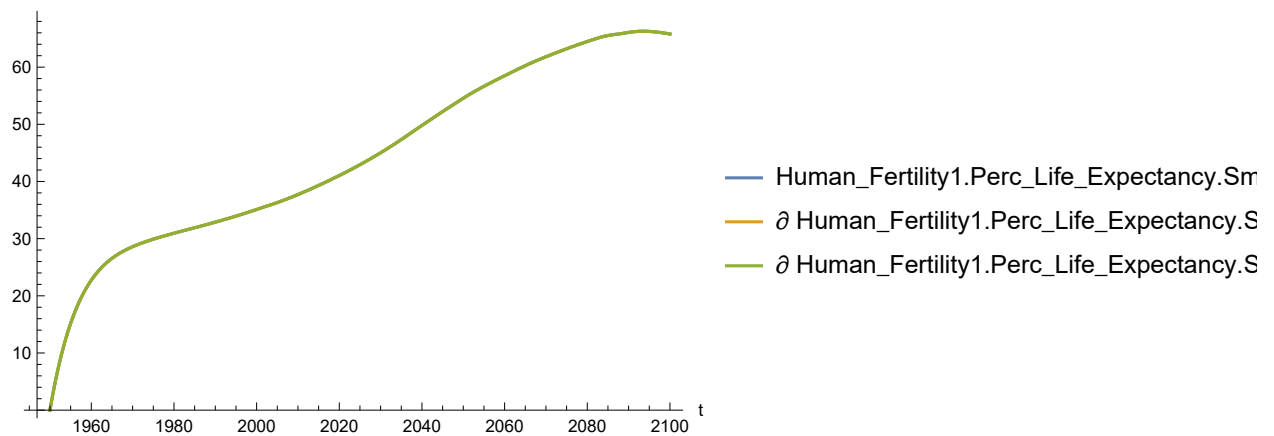
Out[137]=



In[138]:=

```
SystemModelPlot[simsensdata,
  {"Human_Fertility1.Perc_Life_Expectancy.Smooth1.Integrator1.y",
   "Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[7]", percentvar}]
```

Out[138]=

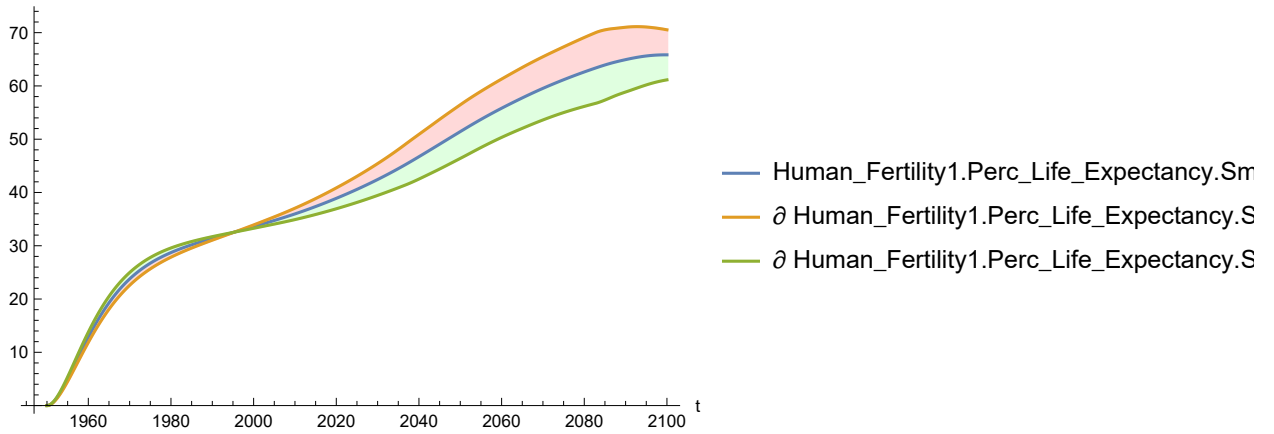


Plot the sensitivity of Human_Fertility1.Perc_Life_Expectancy.Smooth2.Integrator1.y to Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals.

In[139]:=

```
SystemModelPlot[simsensdata,
  {"Human_Fertility1.Perc_Life_Expectancy.Smooth2.Integrator1.y",
   "Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[1]", percentvar}]
```

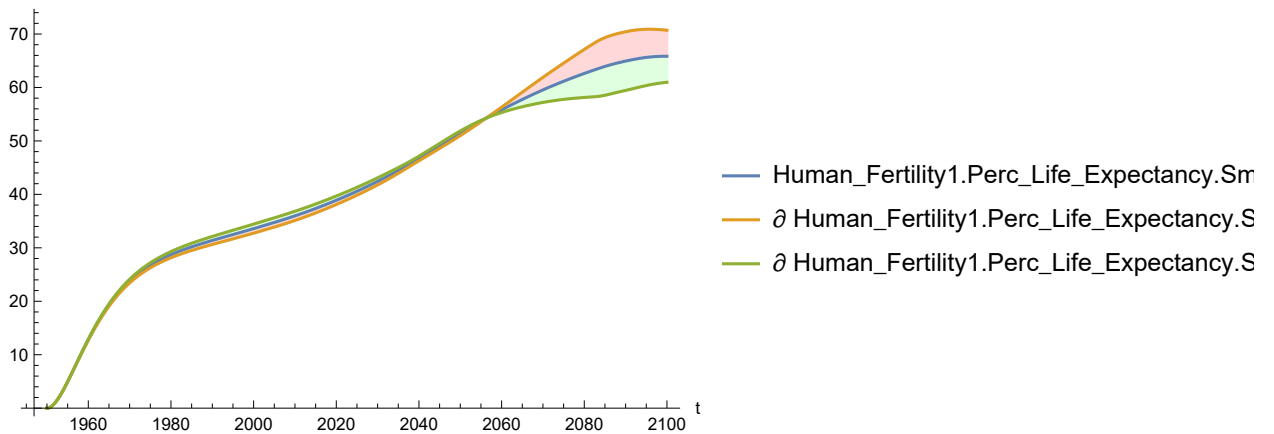
Out[139]=



In[140]:=

```
SystemModelPlot[simsensdata,
  {"Human_Fertility1.Perc_Life_Expectancy.Smooth2.Integrator1.y",
   "Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[2]", percentvar}]
```

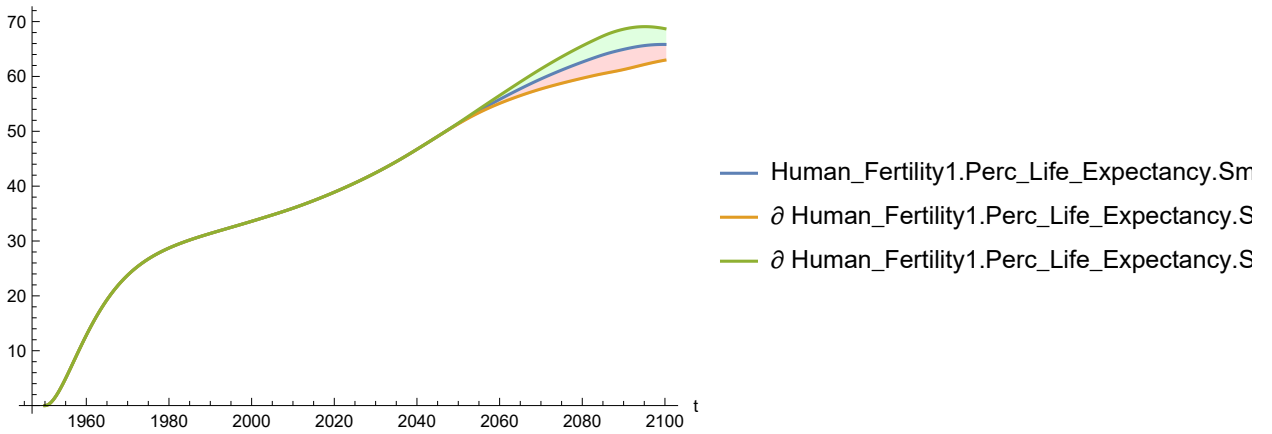
Out[140]=



In[141]:=

```
SystemModelPlot[simsensdata,
  {"Human_Fertility1.Perc_Life_Expectancy.Smooth2.Integrator1.y",
   "Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[3]", percentvar}]
```

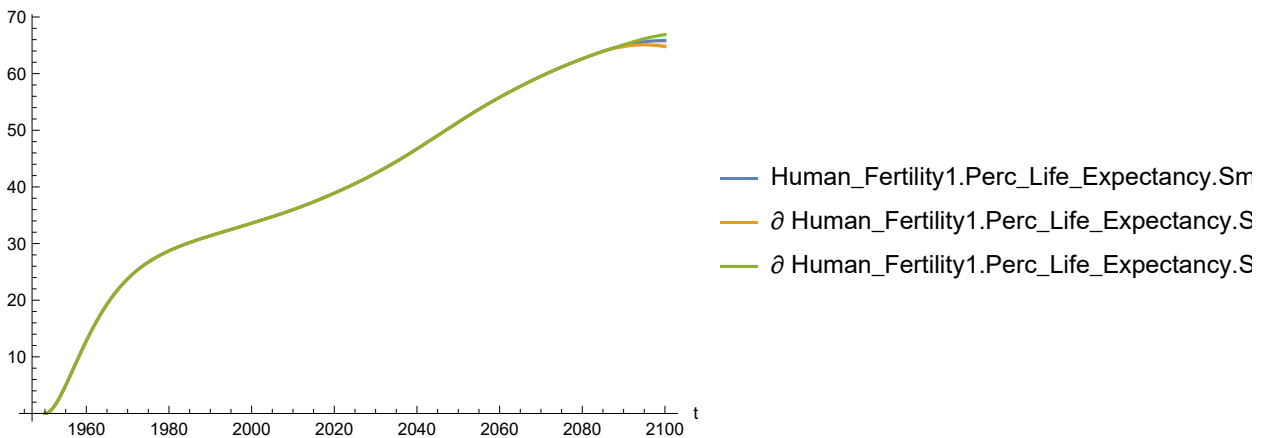
Out[141]=



In[142]:=

```
SystemModelPlot[simsensdata,
  {"Human_Fertility1.Perc_Life_Expectancy.Smooth2.Integrator1.y",
   "Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[4]", percentvar}]
```

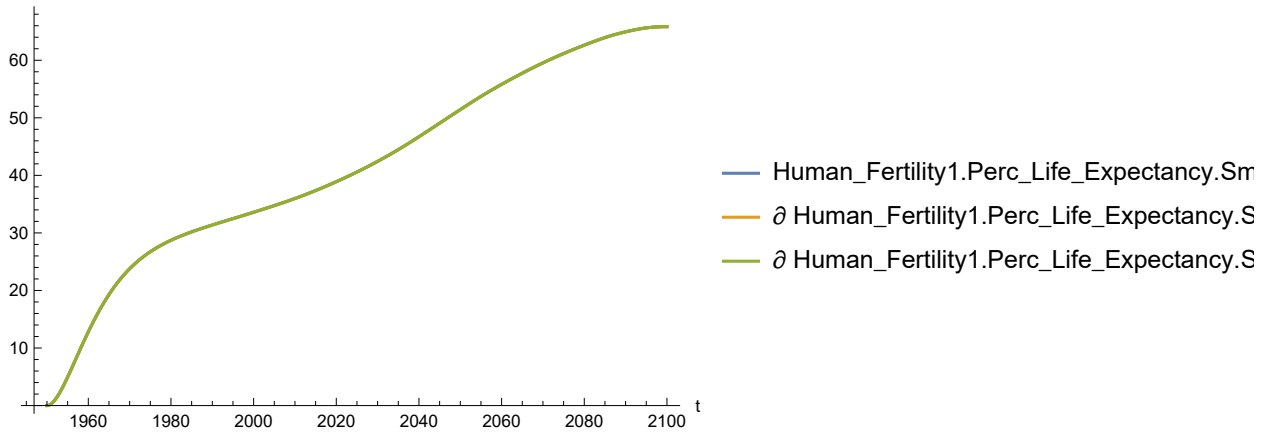
Out[142]=



In[143]:=

```
SystemModelPlot[simsensdata,
  {"Human_Fertility1.Perc_Life_Expectancy.Smooth2.Integrator1.y",
   "Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[5]", percentvar}]
```

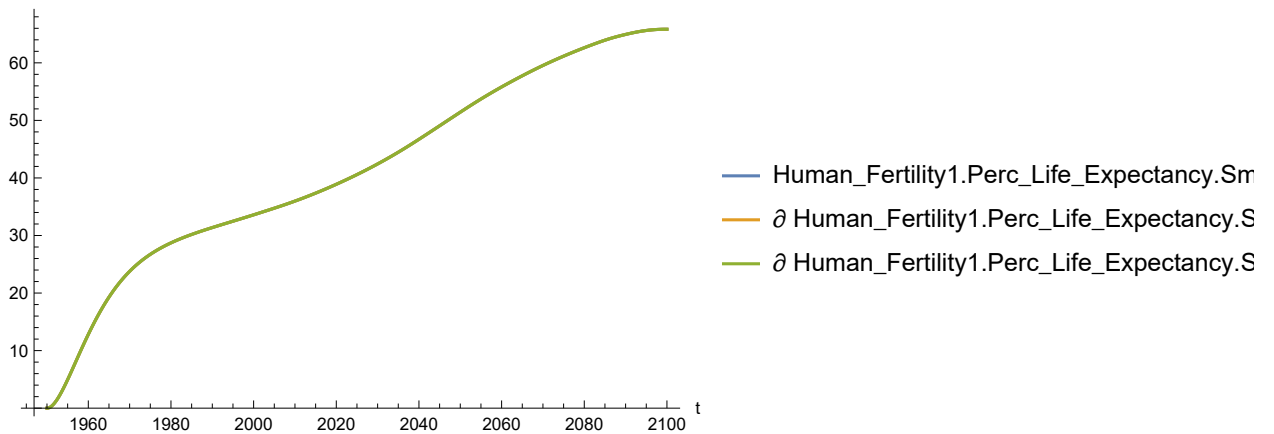
Out[143]:=



In[144]:=

```
SystemModelPlot[simsensdata,
  {"Human_Fertility1.Perc_Life_Expectancy.Smooth2.Integrator1.y",
   "Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[6]", percentvar}]
```

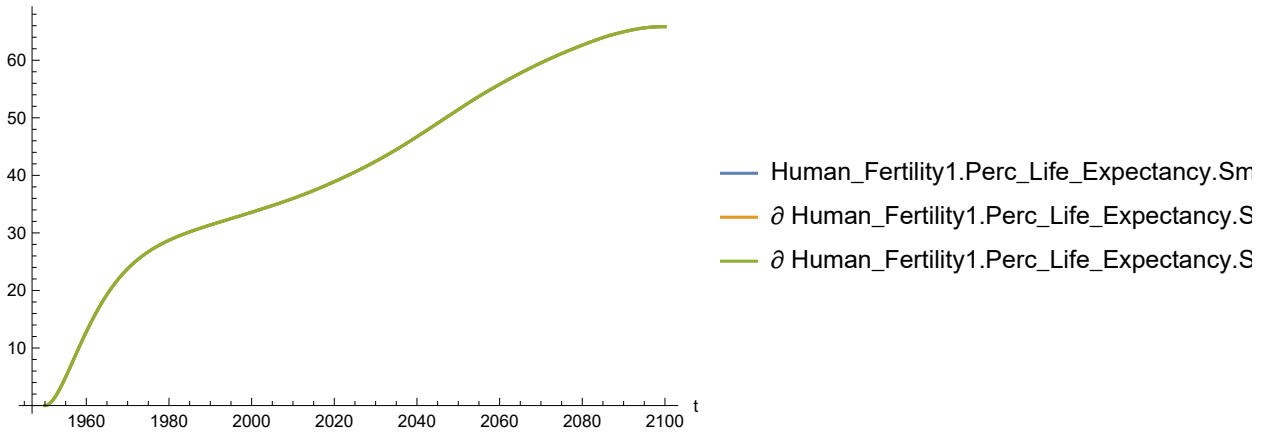
Out[144]:=



In[145]:=

```
SystemModelPlot[simsensdata,
  {"Human_Fertility1.Perc_Life_Expectancy.Smooth2.Integrator1.y",
   "Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[7]", percentvar}]
```

Out[145]=

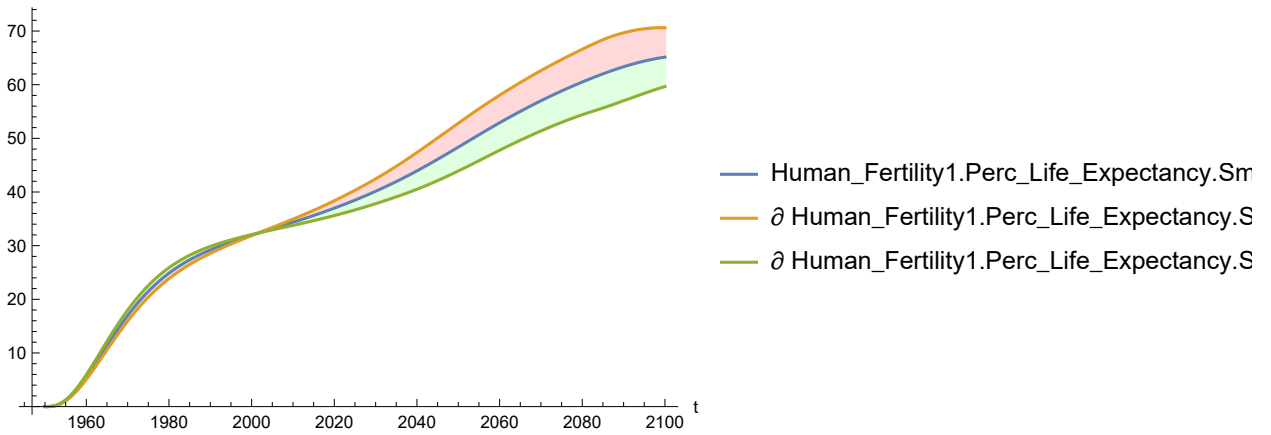


Plot the sensitivity of Human_Fertility1.Perc_Life_Expectancy.Smooth3.Integrator1.y to Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals.

In[146]:=

```
SystemModelPlot[simsensdata,
  {"Human_Fertility1.Perc_Life_Expectancy.Smooth3.Integrator1.y",
   "Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[1]", percentvar}]
```

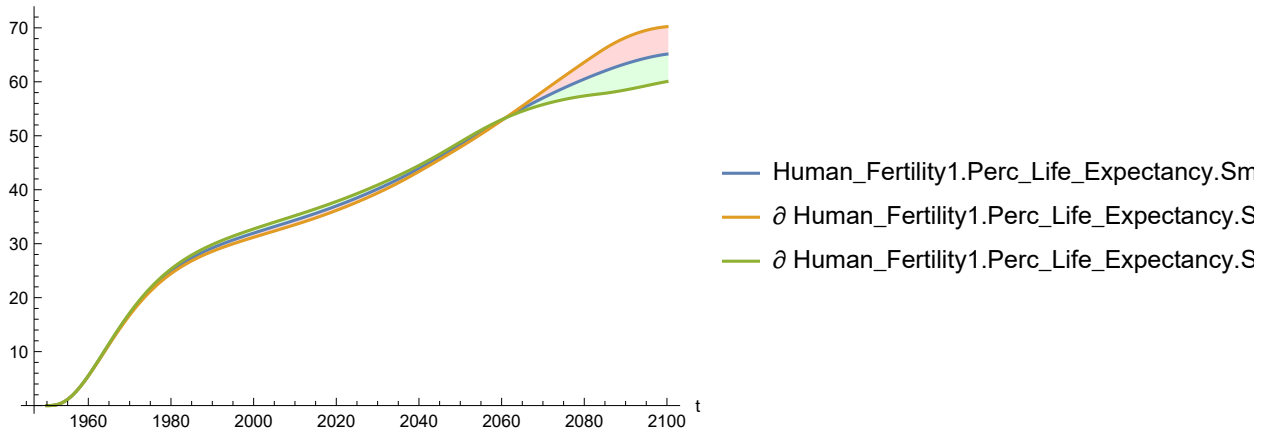
Out[146]=



In[147]:=

```
SystemModelPlot[simsensdata,
  {"Human_Fertility1.Perc_Life_Expectancy.Smooth3.Integrator1.y",
   "Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[2]", percentvar}]
```

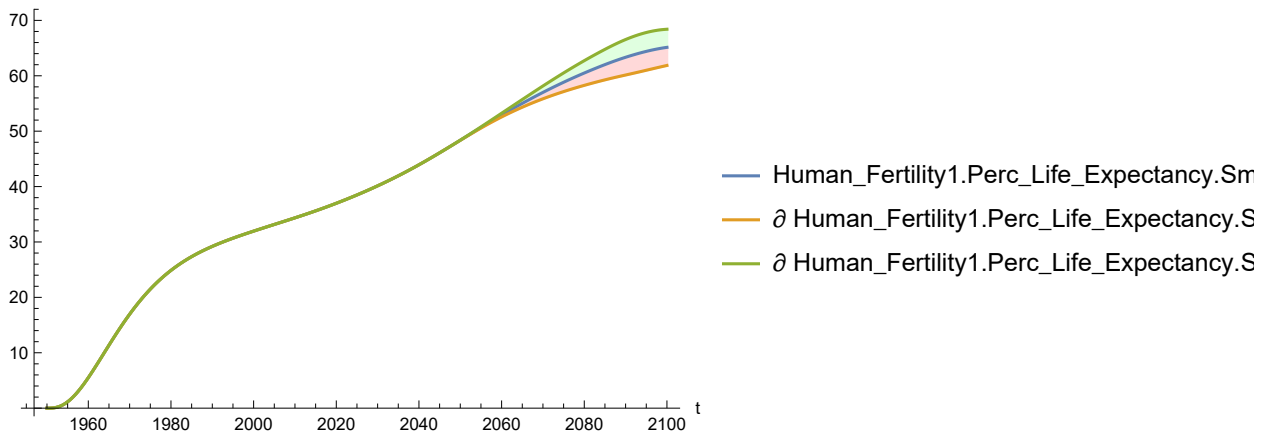
Out[147]=



In[148]:=

```
SystemModelPlot[simsensdata,
  {"Human_Fertility1.Perc_Life_Expectancy.Smooth3.Integrator1.y",
   "Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[3]", percentvar}]
```

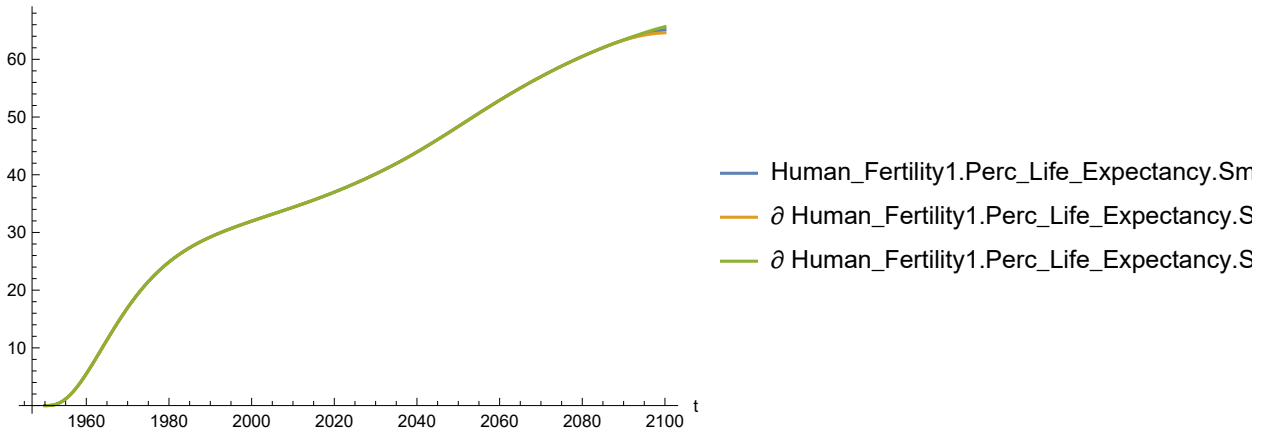
Out[148]=



In[149]:=

```
SystemModelPlot[simsensdata,
  {"Human_Fertility1.Perc_Life_Expectancy.Smooth3.Integrator1.y",
   "Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[4]", percentvar}]
```

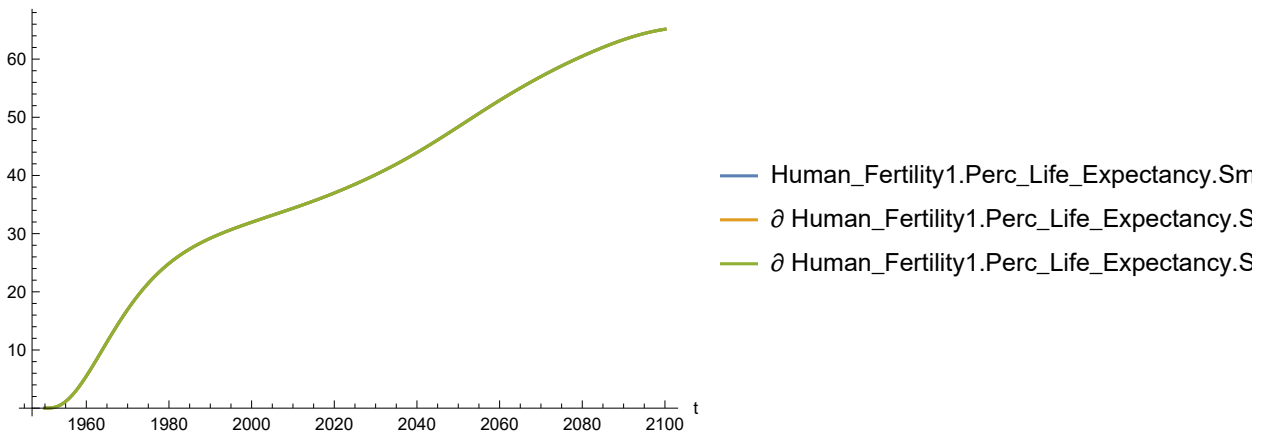
Out[149]=



In[150]:=

```
SystemModelPlot[simsensdata,
  {"Human_Fertility1.Perc_Life_Expectancy.Smooth3.Integrator1.y",
   "Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[5]", percentvar}]
```

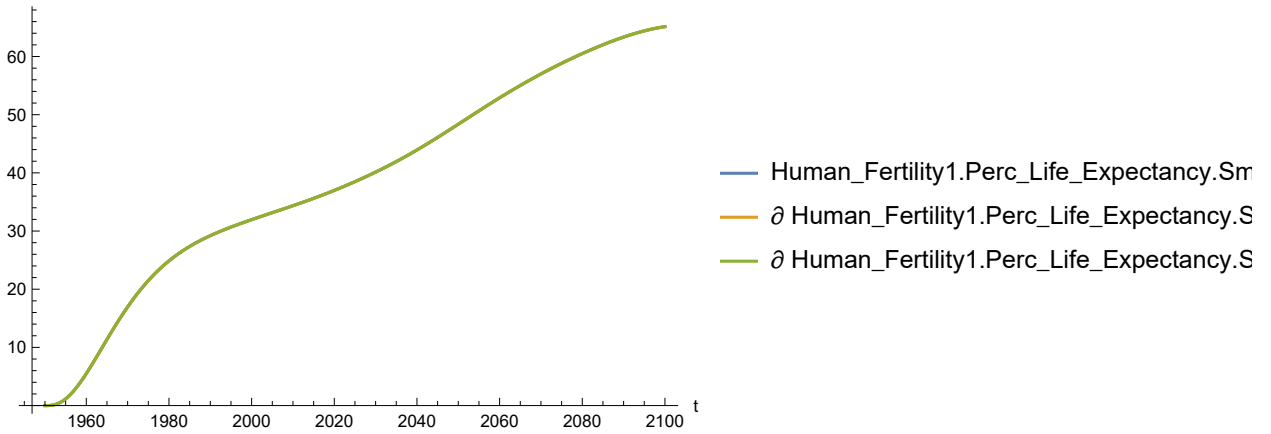
Out[150]=



In[151]:=

```
SystemModelPlot[simsensdata,
  {"Human_Fertility1.Perc_Life_Expectancy.Smooth3.Integrator1.y",
   "Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[6]", percentvar}]
```

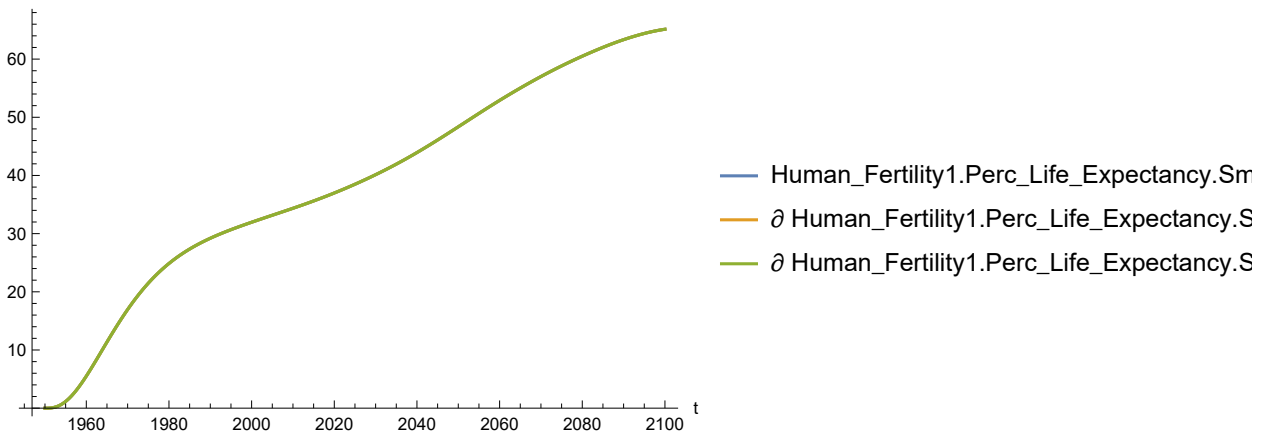
Out[151]=



In[152]:=

```
SystemModelPlot[simsensdata,
  {"Human_Fertility1.Perc_Life_Expectancy.Smooth3.Integrator1.y",
   "Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[7]", percentvar}]
```

Out[152]=

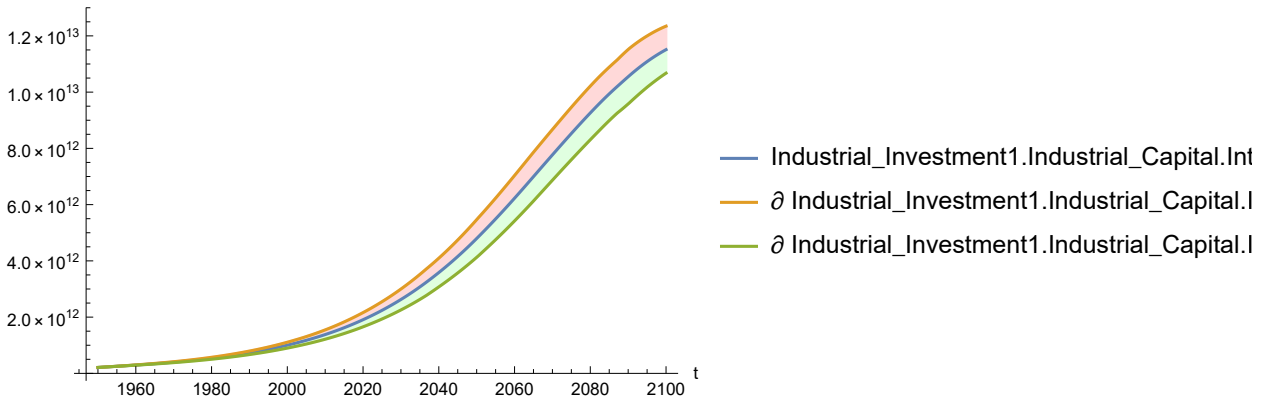


Plot the sensitivity of Industrial_Investment1.Industrial_Capital.Integrator1.y to Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals.

In[153]:=

```
SystemModelPlot[simsensdata, {"Industrial_Investment1.Industrial_Capital.Integrator1.y",
"Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[1]", percentvar}]
```

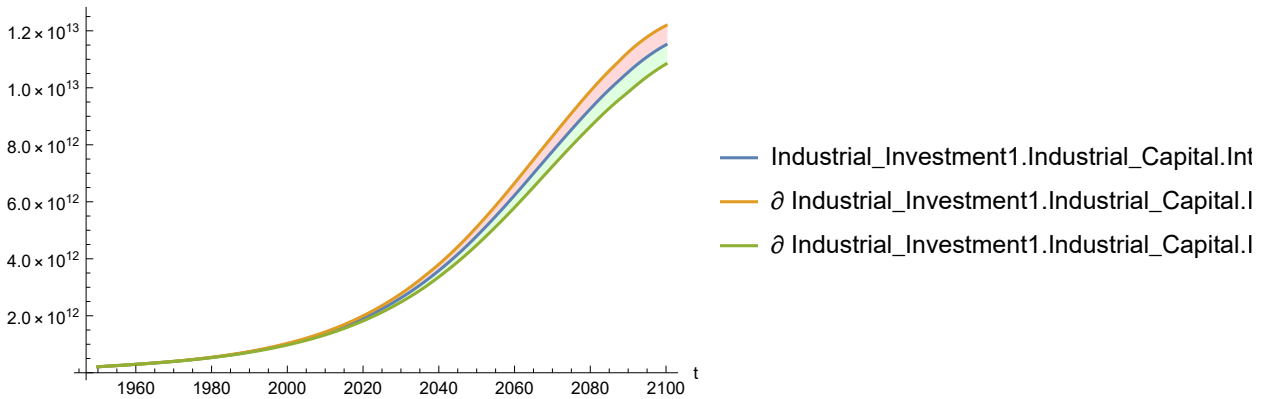
Out[153]=



In[154]:=

```
SystemModelPlot[simsensdata, {"Industrial_Investment1.Industrial_Capital.Integrator1.y",
"Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[2]", percentvar}]
```

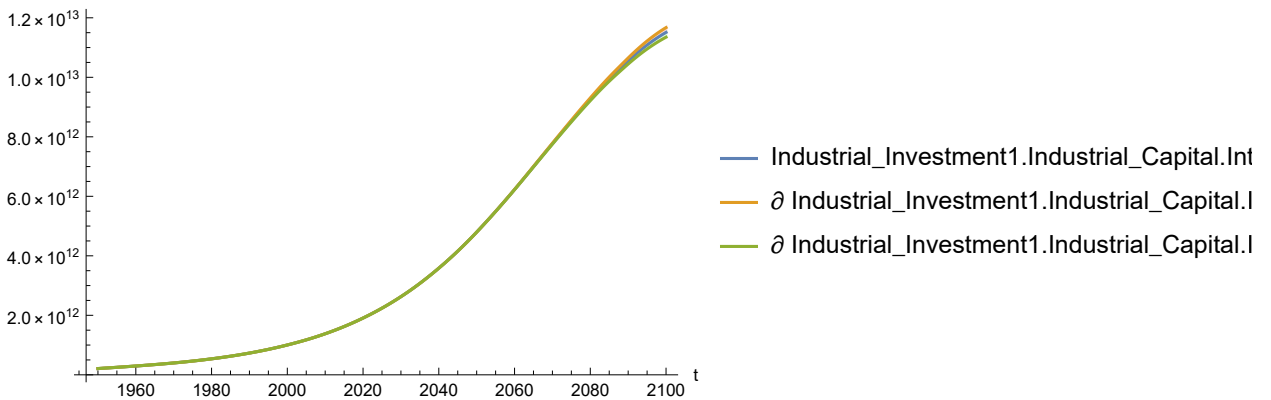
Out[154]=



In[155]:=

```
SystemModelPlot[simsensdata, {"Industrial_Investment1.Industrial_Capital.Integrator1.y",
"Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[3]", percentvar}]
```

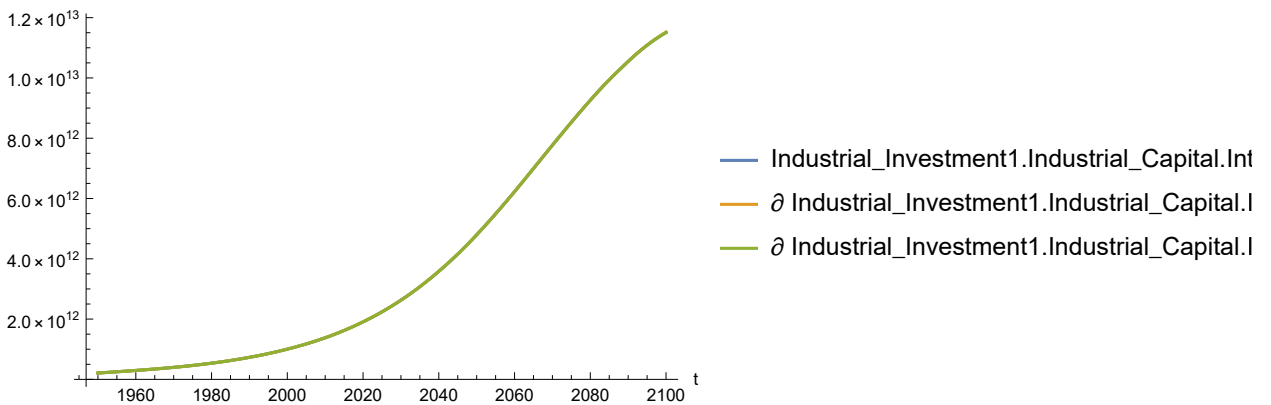
Out[155]=



In[156]:=

```
SystemModelPlot[simsensdata, {"Industrial_Investment1.Industrial_Capital.Integrator1.y",
"Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[4]", percentvar}]
```

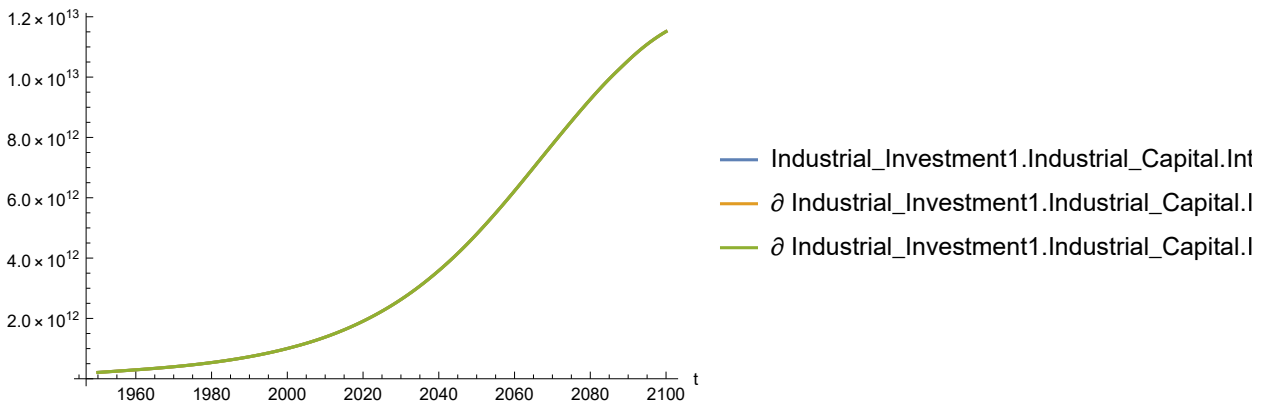
Out[156]=



In[157]:=

```
SystemModelPlot[simsensdata, {"Industrial_Investment1.Industrial_Capital.Integrator1.y",
"Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[5]", percentvar}]
```

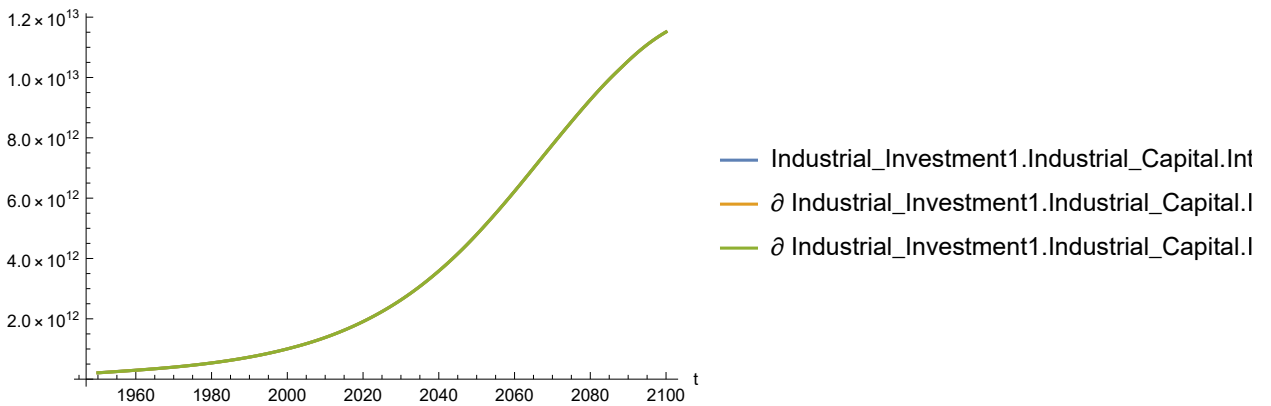
Out[157]=



In[158]:=

```
SystemModelPlot[simsensdata, {"Industrial_Investment1.Industrial_Capital.Integrator1.y",
"Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[6]", percentvar}]
```

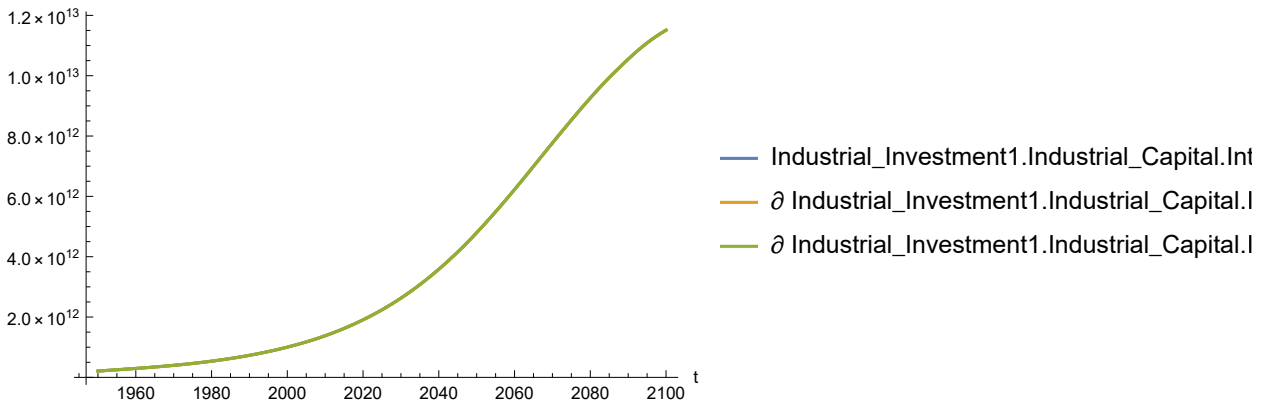
Out[158]=



In[159]:=

```
SystemModelPlot[simsensdata, {"Industrial_Investment1.Industrial_Capital.Integrator1.y",
"Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[7]", percentvar}]
```

Out[159]=

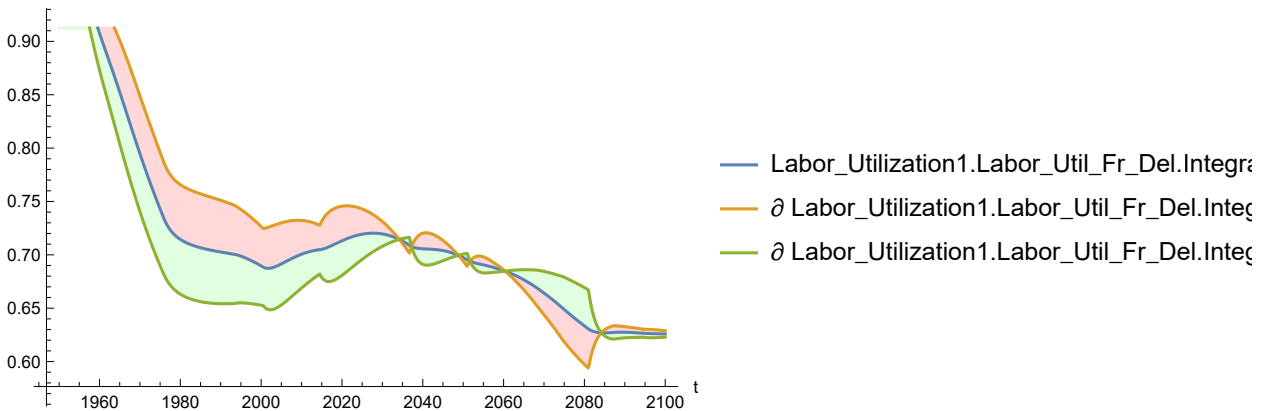


Plot the sensitivity of Labor_Utilization1.Labor_Util_Fr_Del.Integrator1.y to Life_Expectan-
cy1.Lifet_Mlt_Hlth_Serv_2.y_vals.

In[160]:=

```
SystemModelPlot[simsensdata, {"Labor_Utilization1.Labor_Util_Fr_Del.Integrator1.y",
"Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[1]", percentvar}]
```

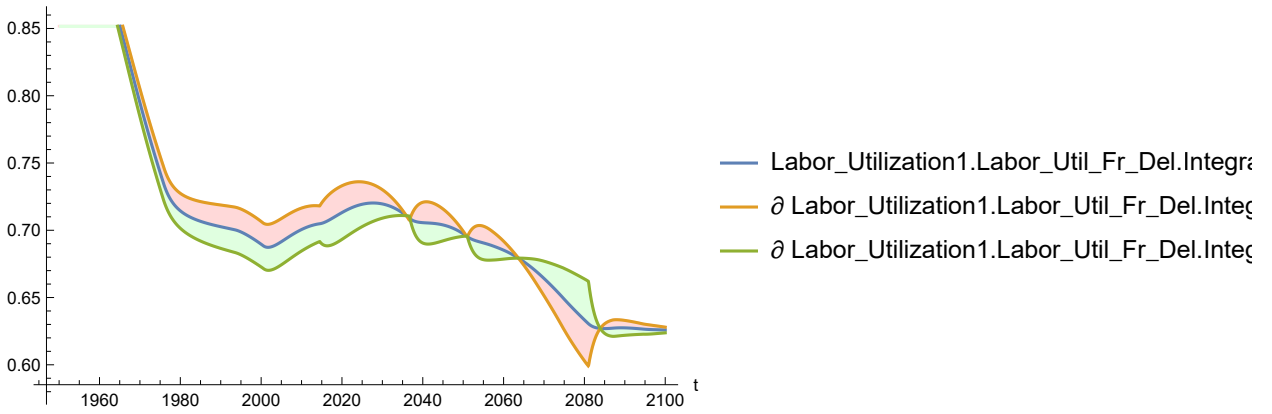
Out[160]=



In[161]:=

```
SystemModelPlot[simsensdata, {"Labor_Utilization1.Labor_Util_Fr_Del.Integrator1.y",
"Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[2]", percentvar}]
```

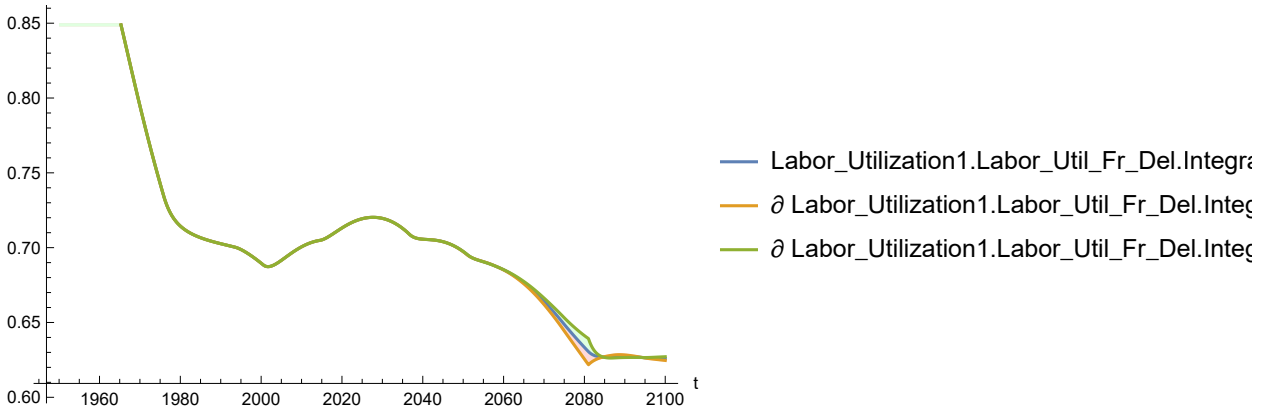
Out[161]=



In[162]:=

```
SystemModelPlot[simsensdata, {"Labor_Utilization1.Labor_Util_Fr_Del.Integrator1.y",
"Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[3]", percentvar}]
```

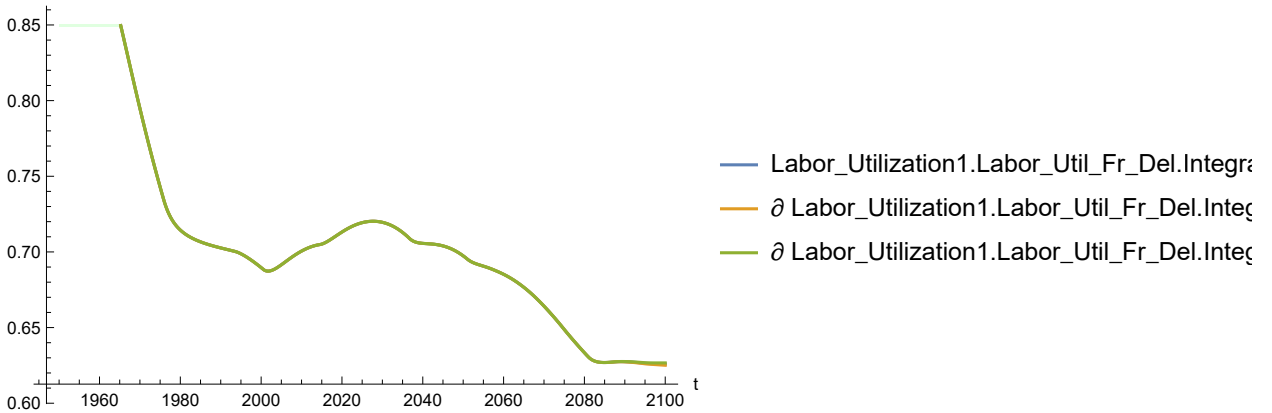
Out[162]=



In[163]:=

```
SystemModelPlot[simsensdata, {"Labor_Utilization1.Labor_Util_Fr_Del.Integrator1.y",
"Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[4]", percentvar}]
```

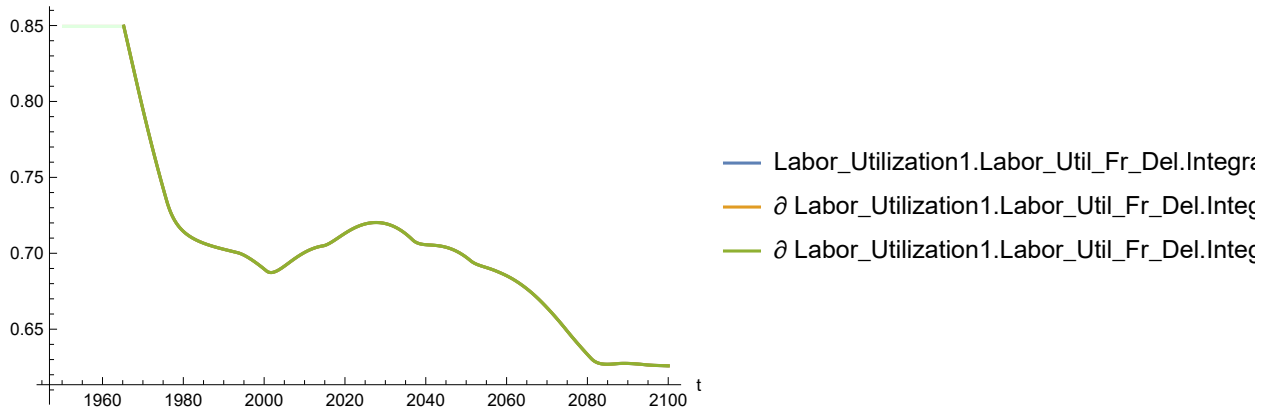
Out[163]=



In[164]:=

```
SystemModelPlot[simsensdata, {"Labor_Utilization1.Labor_Util_Fr_Del.Integrator1.y",
"Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[5]", percentvar}]
```

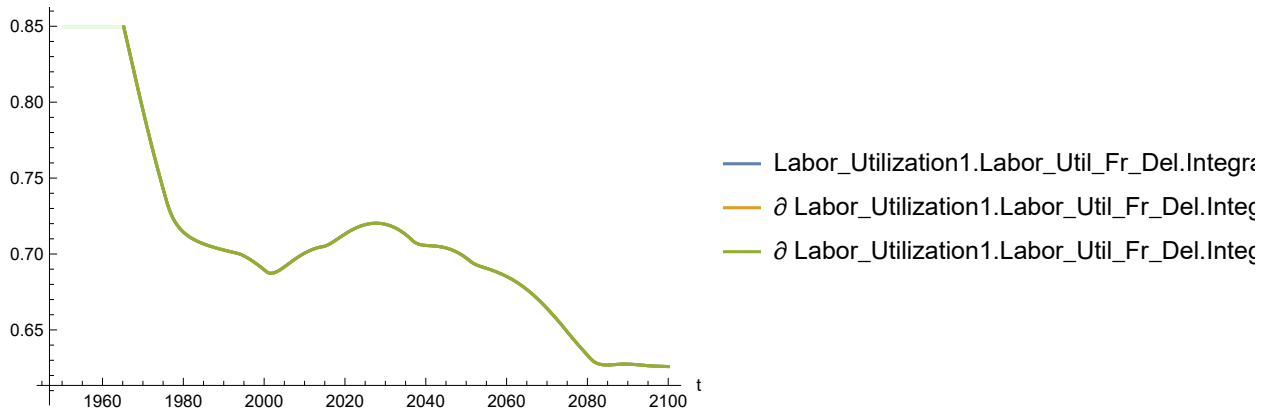
Out[164]=



In[165]:=

```
SystemModelPlot[simsensdata, {"Labor_Utilization1.Labor_Util_Fr_Del.Integrator1.y",
"Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[6]", percentvar}]
```

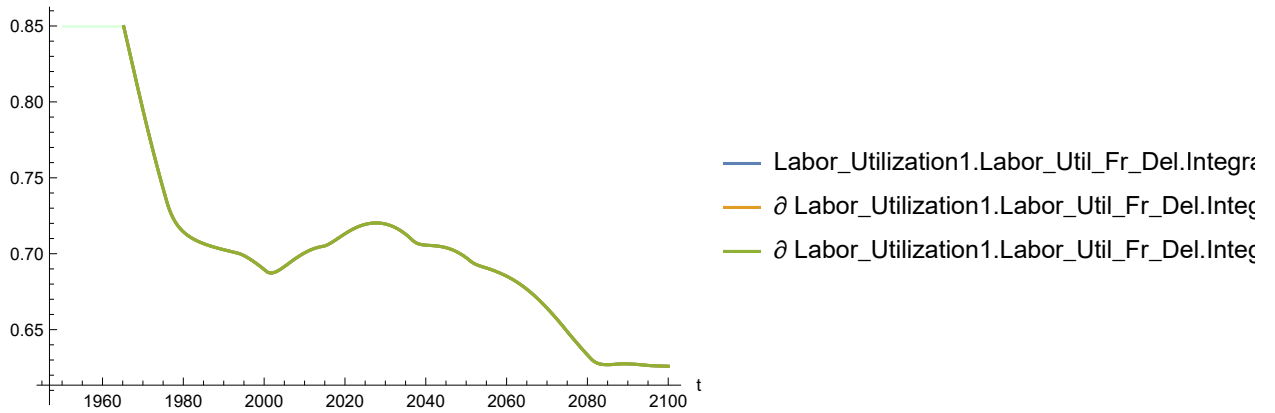
Out[165]=



In[166]:=

```
SystemModelPlot[simsensdata, {"Labor_Utilization1.Labor_Util_Fr_Del.Integrator1.y",
"Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[7]", percentvar}]
```

Out[166]=

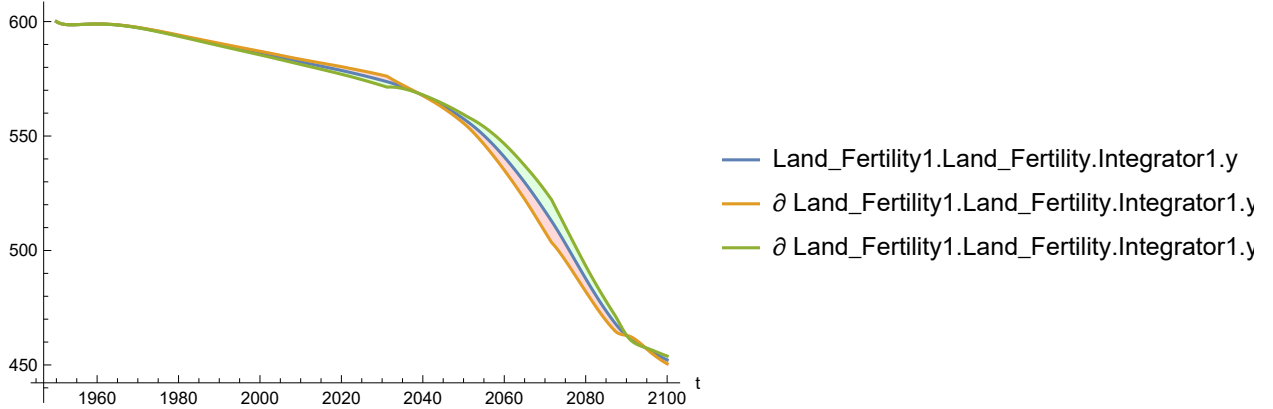


Plot the sensitivity of Land_Fertility1.Land_Fertility.Integrator1.y to Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals.

In[167]:=

```
SystemModelPlot[simsensdata, {"Land_Fertility1.Land_Fertility.Integrator1.y",
    "Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[1]", percentvar}]
```

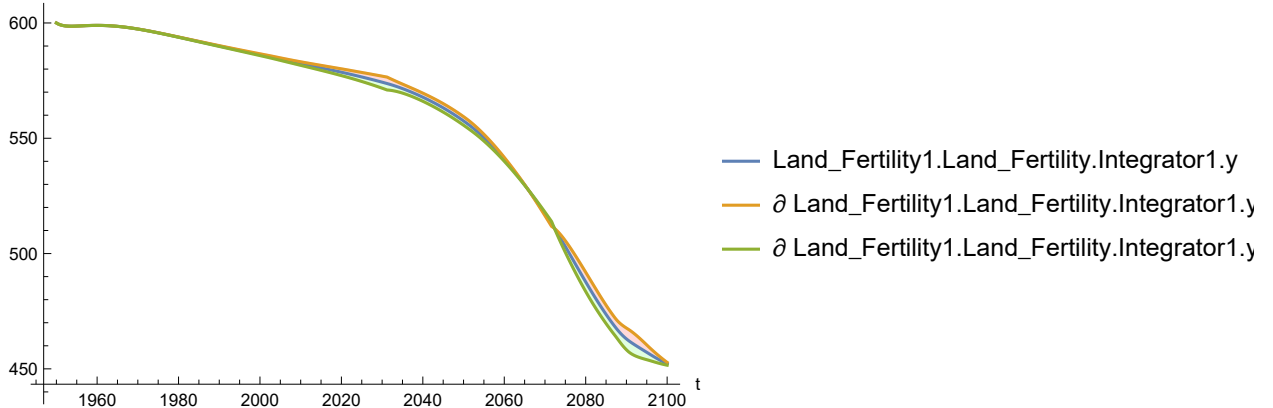
Out[167]=



In[168]:=

```
SystemModelPlot[simsensdata, {"Land_Fertility1.Land_Fertility.Integrator1.y",
    "Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[2]", percentvar}]
```

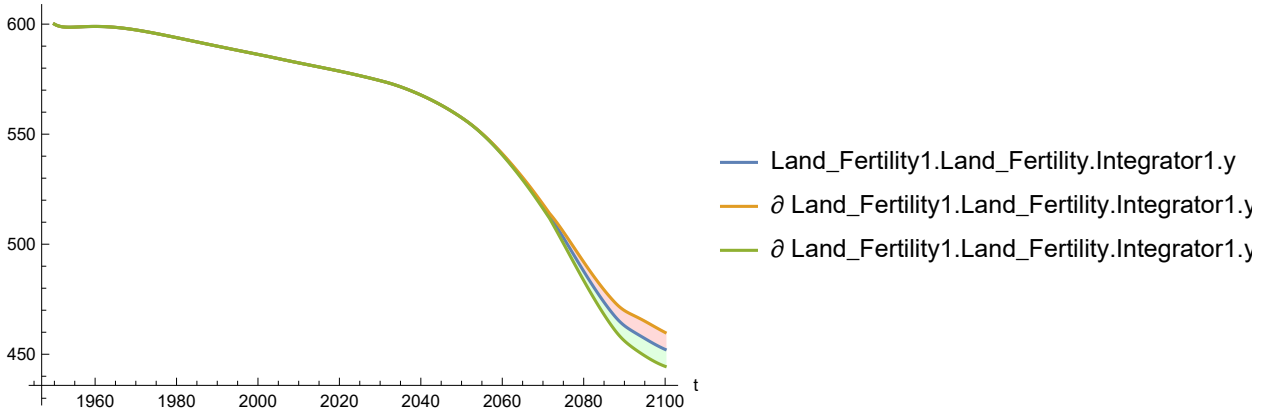
Out[168]=



In[169]:=

```
SystemModelPlot[simsensdata, {"Land_Fertility1.Land_Fertility.Integrator1.y",
    "Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[3]", percentvar}]
```

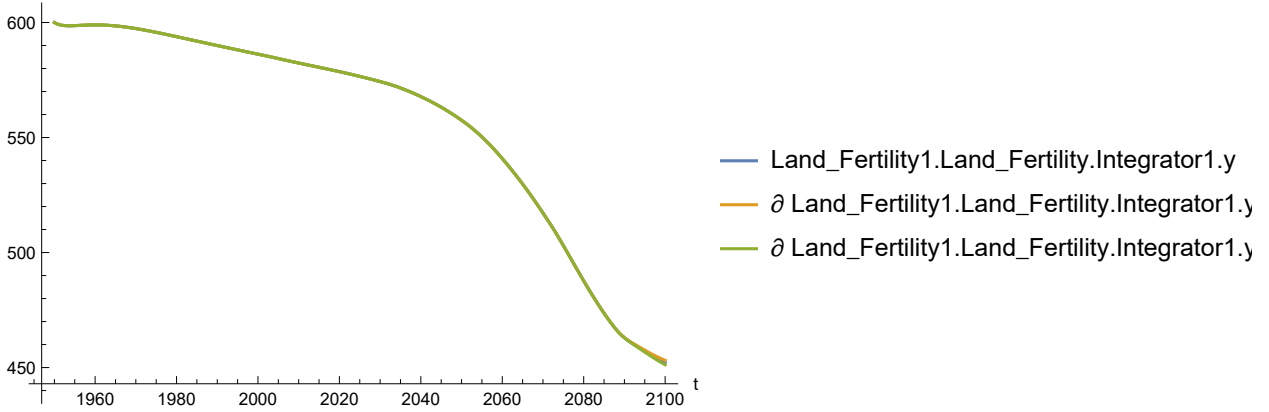
Out[169]=



In[170]:=

```
SystemModelPlot[simsensdata, {"Land_Fertility1.Land_Fertility.Integrator1.y",
    "Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[4]", percentvar}]
```

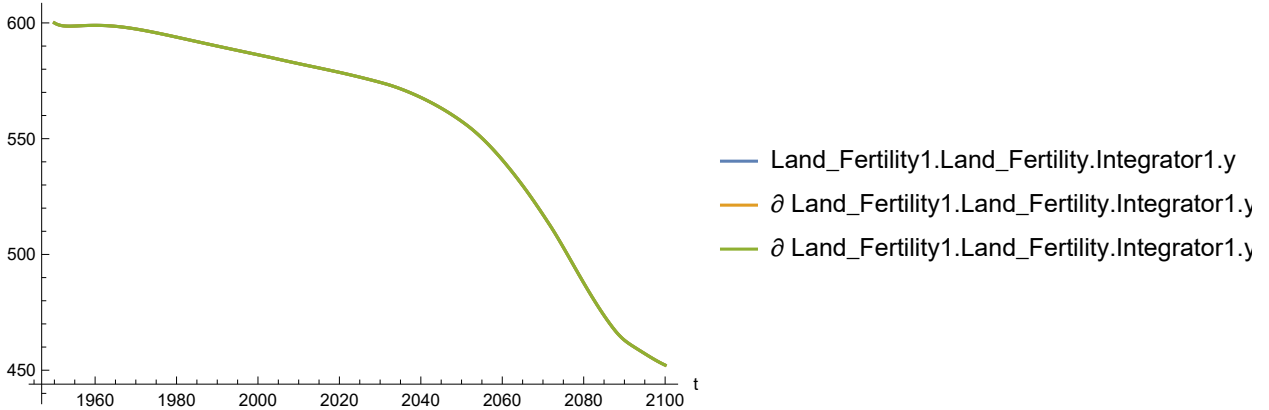
Out[170]=



In[171]:=

```
SystemModelPlot[simsensdata, {"Land_Fertility1.Land_Fertility.Integrator1.y",
    "Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[5]", percentvar}]
```

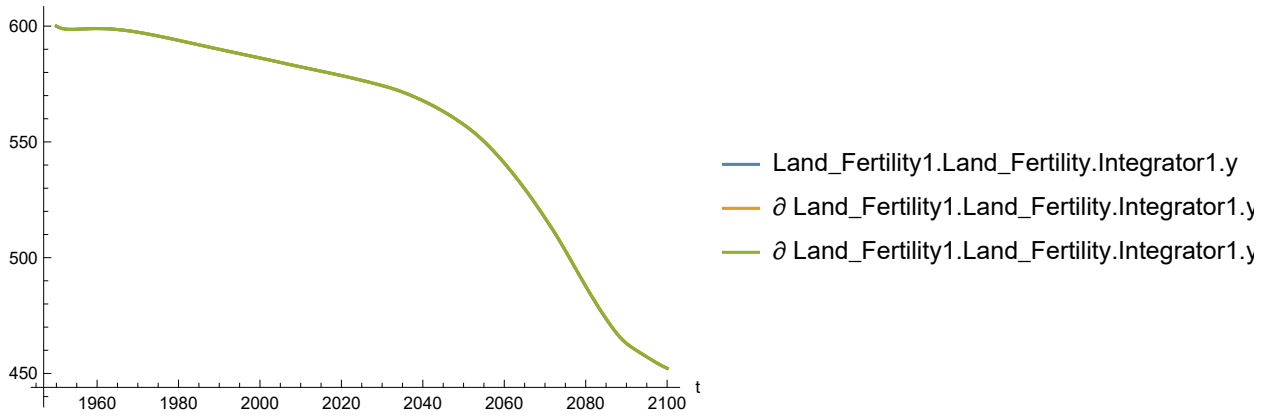
Out[171]=



In[172]:=

```
SystemModelPlot[simsensdata, {"Land_Fertility1.Land_Fertility.Integrator1.y",
    "Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[6]", percentvar}]
```

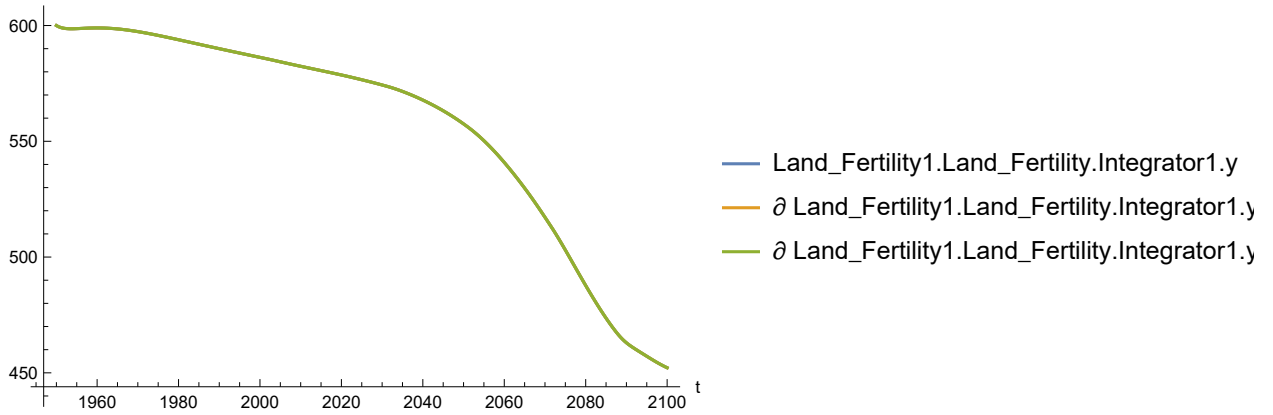
Out[172]=



In[173]:=

```
SystemModelPlot[simsensdata, {"Land_Fertility1.Land_Fertility.Integrator1.y",
    "Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[7]", percentvar}]
```

Out[173]=

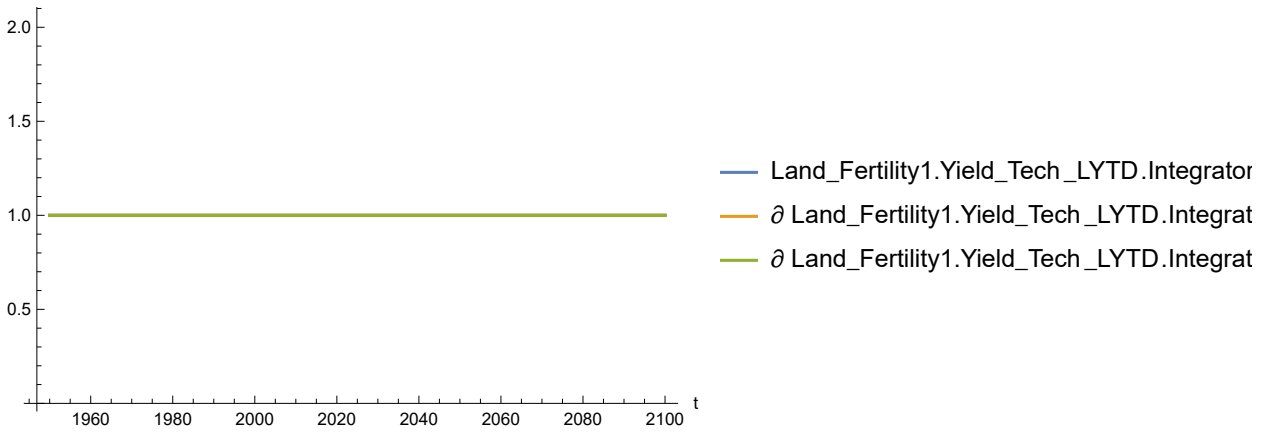


Plot the sensitivity of Land_Fertility1.Yield_Tech_LYTD.Integrator1.y to Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals.

In[174]:=

```
SystemModelPlot[simsensdata, {"Land_Fertility1.Yield_Tech_LYTD.Integrator1.y",
"Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[1]", percentvar}]
```

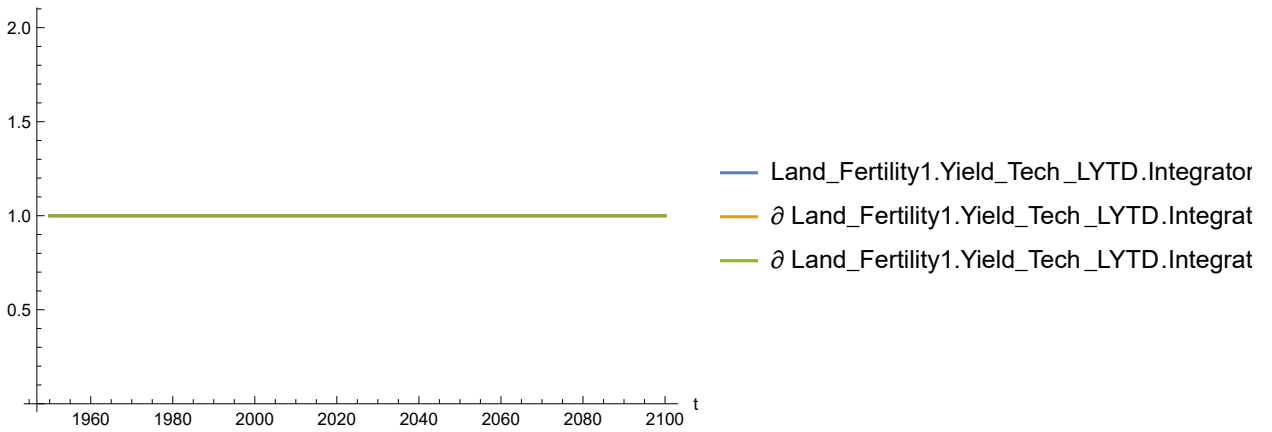
Out[174]=



In[175]:=

```
SystemModelPlot[simsensdata, {"Land_Fertility1.Yield_Tech_LYTD.Integrator1.y",
"Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[2]", percentvar}]
```

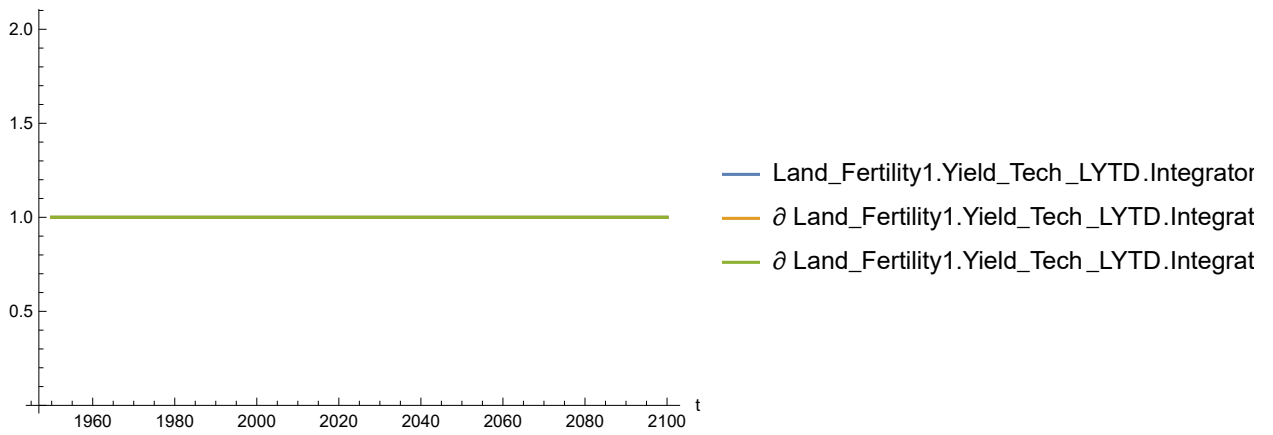
Out[175]=



In[176]:=

```
SystemModelPlot[simsensdata, {"Land_Fertility1.Yield_Tech_LYTD.Integrator1.y",
"Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[3]", percentvar}]
```

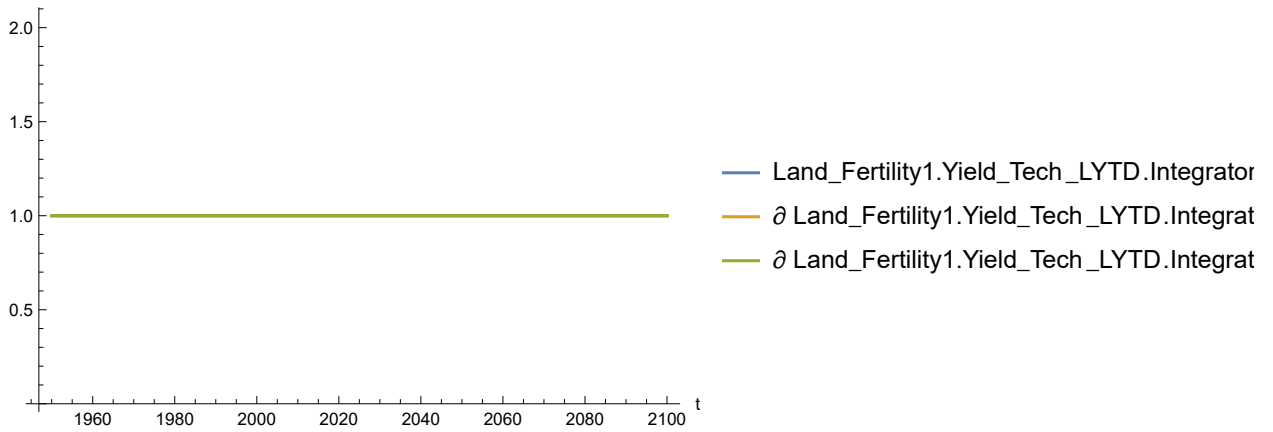
Out[176]=



In[177]:=

```
SystemModelPlot[simsensdata, {"Land_Fertility1.Yield_Tech_LYTD.Integrator1.y",
"Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[4]", percentvar}]
```

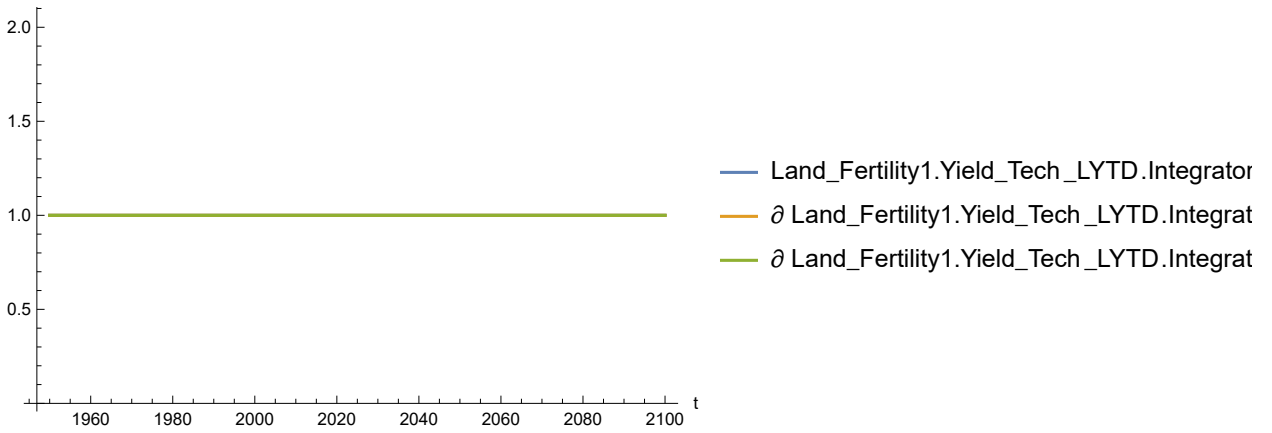
Out[177]=



In[178]:=

```
SystemModelPlot[simsensdata, {"Land_Fertility1.Yield_Tech_LYTD.Integrator1.y",
"Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[5]", percentvar}]
```

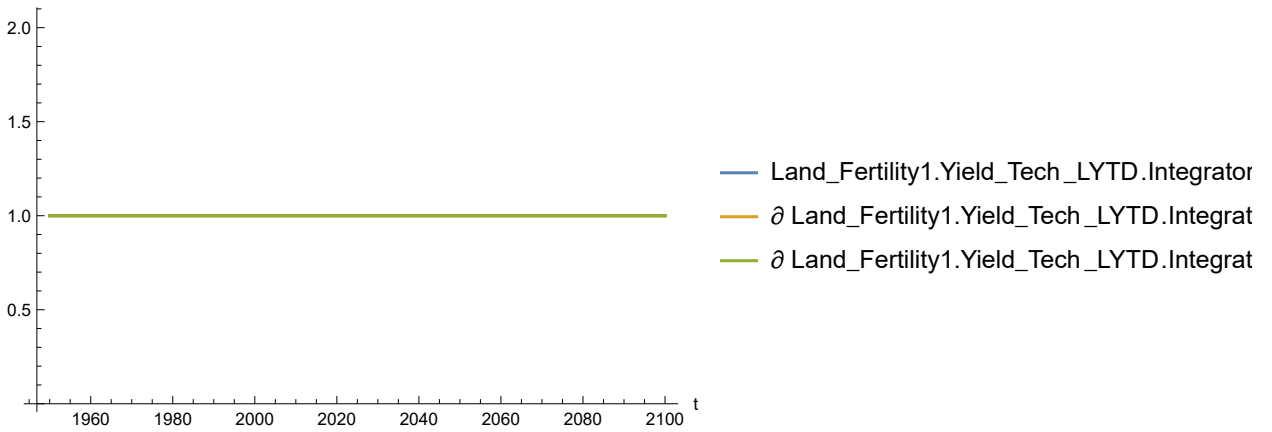
Out[178]=



In[179]:=

```
SystemModelPlot[simsensdata, {"Land_Fertility1.Yield_Tech_LYTD.Integrator1.y",
"Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[6]", percentvar}]
```

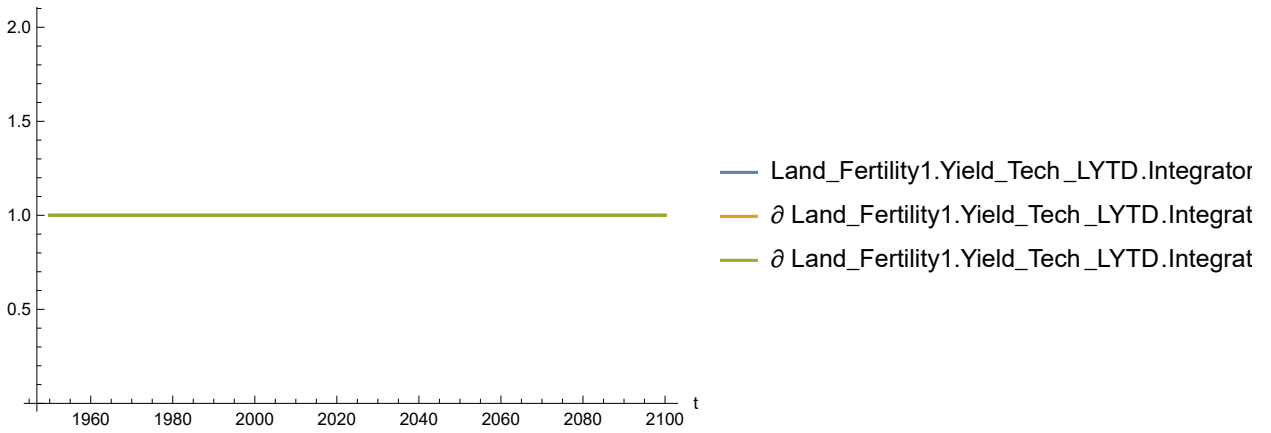
Out[179]=



In[180]:=

```
SystemModelPlot[simsensdata, {"Land_Fertility1.Yield_Tech_LYTD.Integrator1.y",
    "Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[7]", percentvar}]
```

Out[180]=

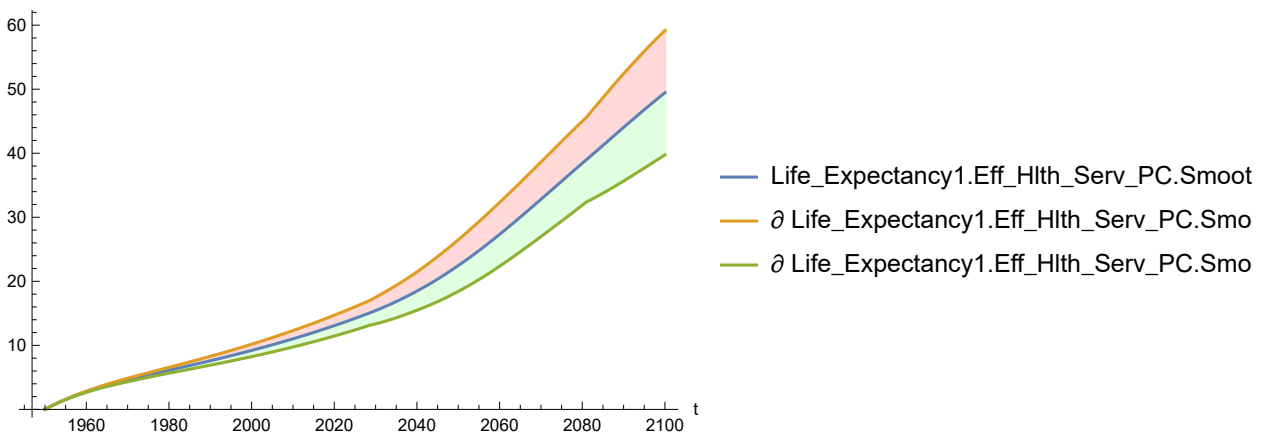


Plot the sensitivity of Life_Expectancy1.Eff_Hlth_Serv_PC.Smooth_of_Input.Integrator1.y to Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals.

In[181]:=

```
SystemModelPlot[simsensdata, {"Life_Expectancy1.Eff_Hlth_Serv_PC.Smooth_of_Input.Integrator1.y",
    "Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[1]", percentvar}]
```

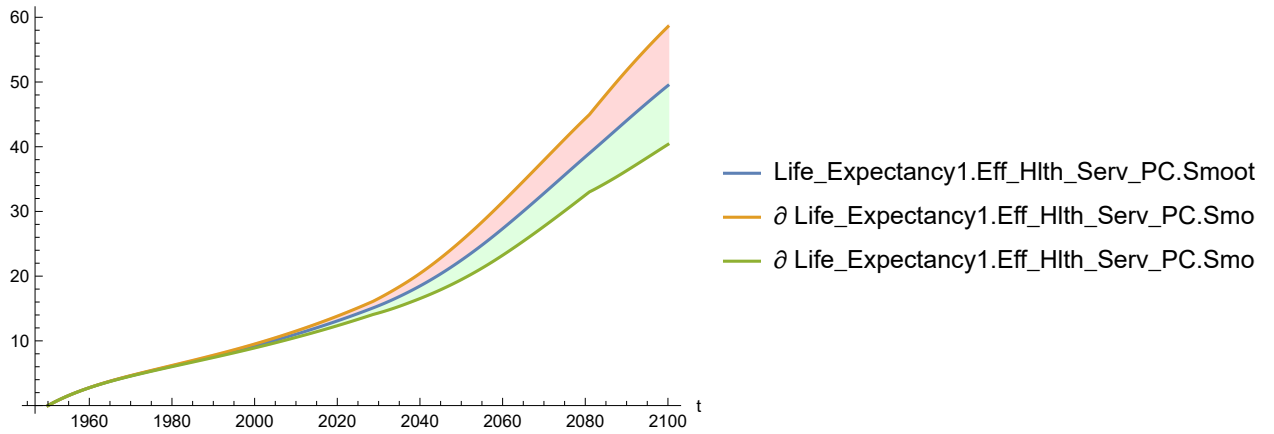
Out[181]=



In[182]:=

```
SystemModelPlot[simsensdata,
  {"Life_Expectancy1.Eff_Hlth_Serv_PC.Smooth_of_Input.Integrator1.y",
   "Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[2]", percentvar}]
```

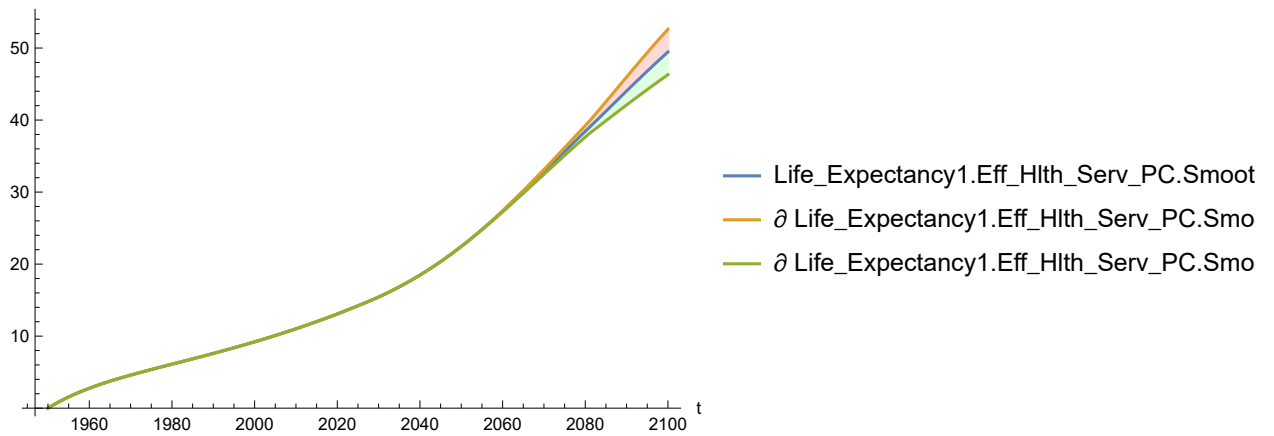
Out[182]=



In[183]:=

```
SystemModelPlot[simsensdata,
  {"Life_Expectancy1.Eff_Hlth_Serv_PC.Smooth_of_Input.Integrator1.y",
   "Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[3]", percentvar}]
```

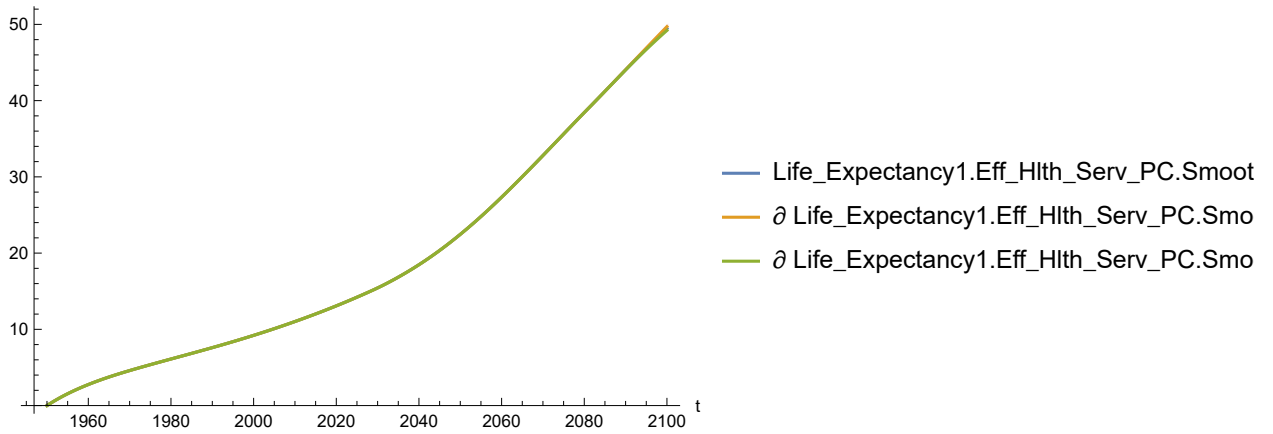
Out[183]=



In[184]:=

```
SystemModelPlot[simsensdata,
  {"Life_Expectancy1.Eff_Hlth_Serv_PC.Smooth_of_Input.Integrator1.y",
   "Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[4]", percentvar}]
```

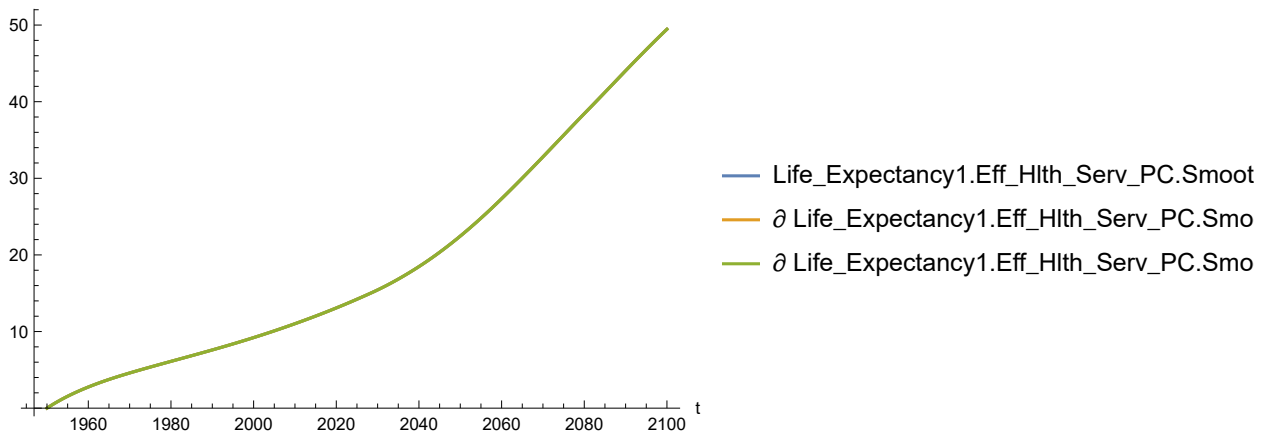
Out[184]=



In[185]:=

```
SystemModelPlot[simsensdata,
  {"Life_Expectancy1.Eff_Hlth_Serv_PC.Smooth_of_Input.Integrator1.y",
   "Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[5]", percentvar}]
```

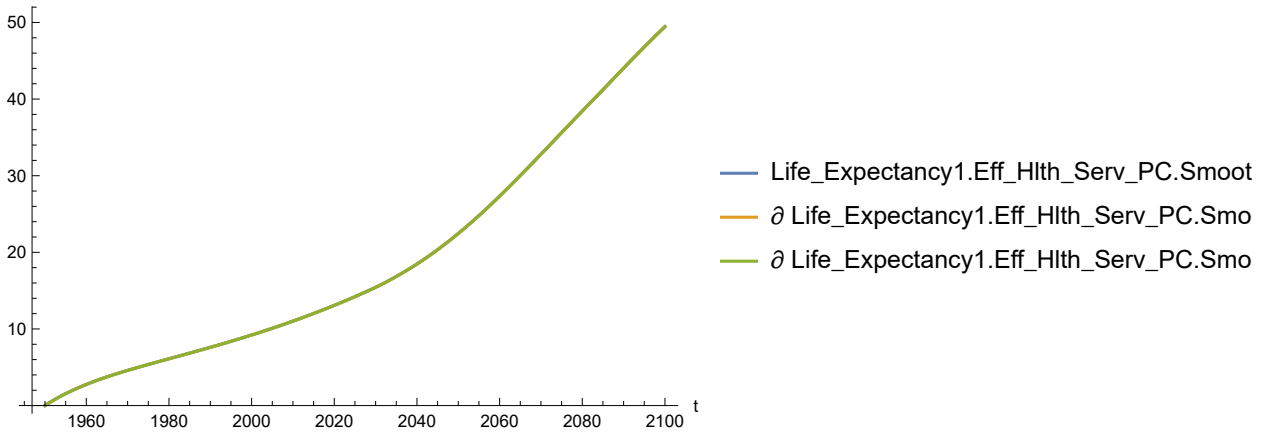
Out[185]=



In[186]:=

```
SystemModelPlot[simsensdata,
  {"Life_Expectancy1.Eff_Hlth_Serv_PC.Smooth_of_Input.Integrator1.y",
   "Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[6]", percentvar}]
```

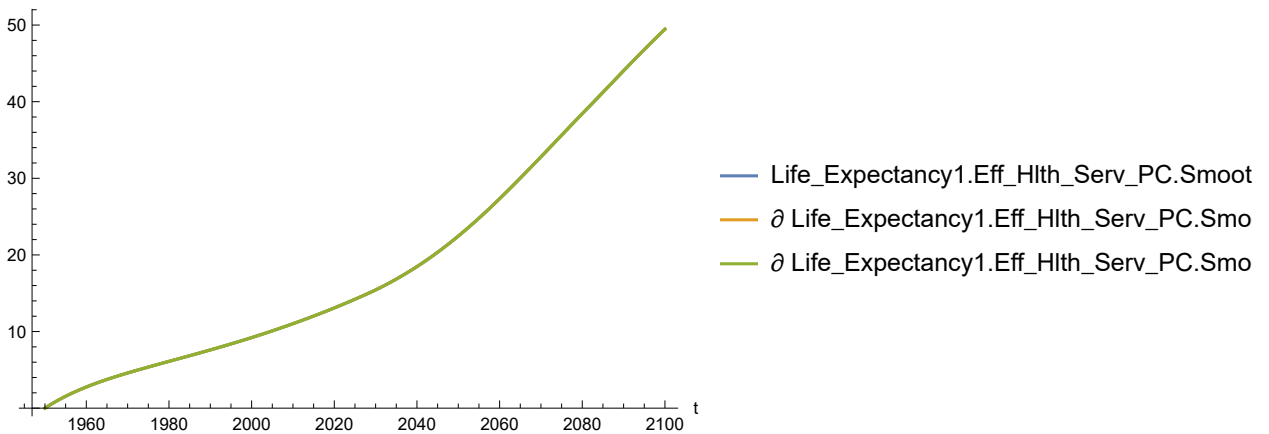
Out[186]=



In[187]:=

```
SystemModelPlot[simsensdata,
  {"Life_Expectancy1.Eff_Hlth_Serv_PC.Smooth_of_Input.Integrator1.y",
   "Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[7]", percentvar}]
```

Out[187]=

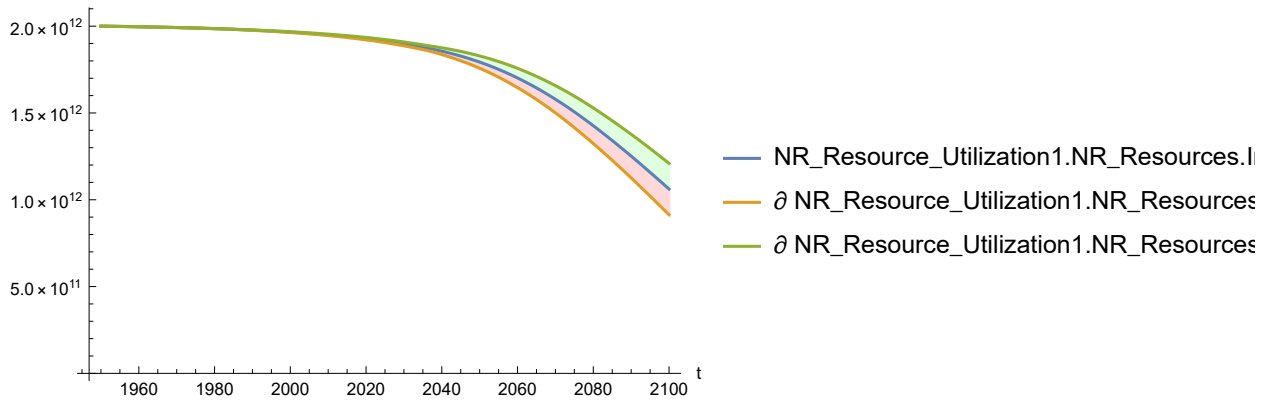


Plot the sensitivity of `NR_Resource_Utilization1.NR_Resources.Integrator1.y` to `Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals`.

In[188]:=

```
SystemModelPlot[simsensdata, {"NR_Resource_Utilization1.NR_Resources.Integrator1.y",
"Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[1]", percentvar}]
```

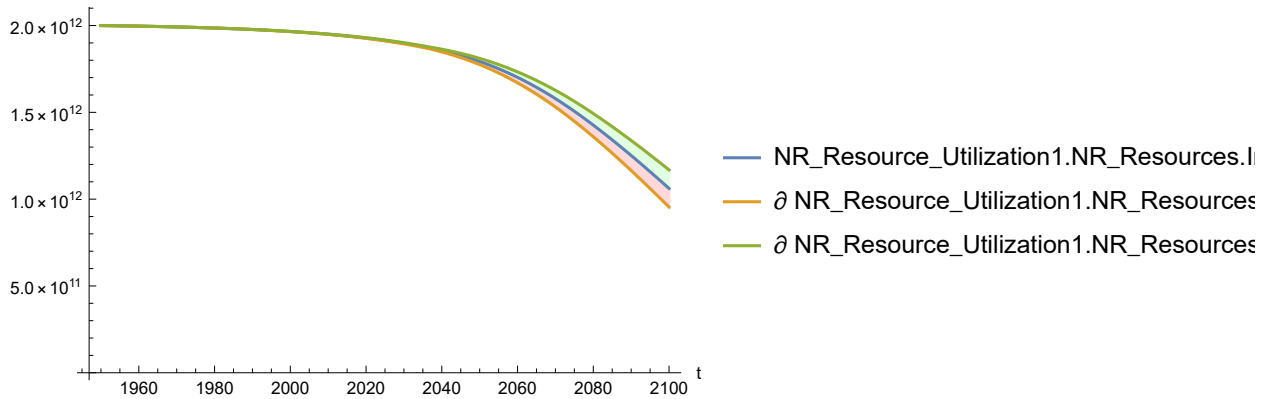
Out[188]=



In[189]:=

```
SystemModelPlot[simsensdata, {"NR_Resource_Utilization1.NR_Resources.Integrator1.y",
"Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[2]", percentvar}]
```

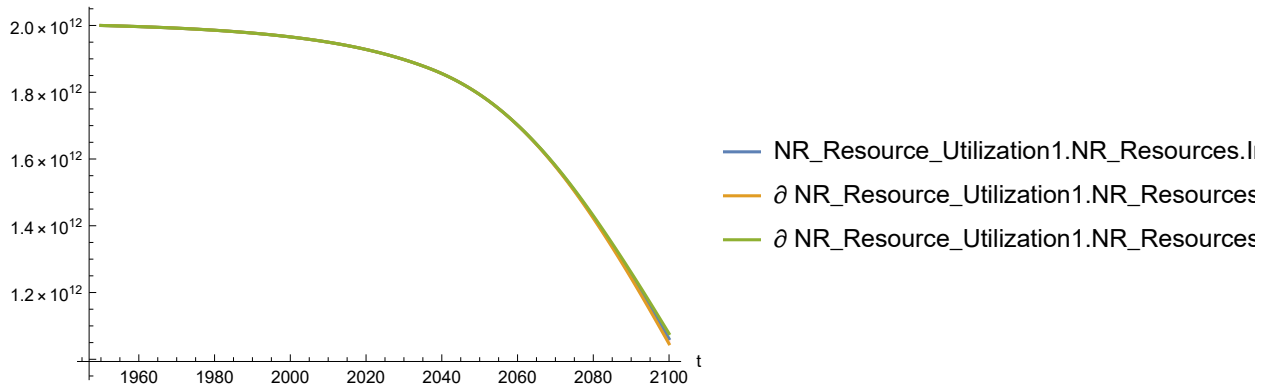
Out[189]=



In[190]:=

```
SystemModelPlot[simsensdata, {"NR_Resource_Utilization1.NR_Resources.Integrator1.y",
"Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[3]", percentvar}]
```

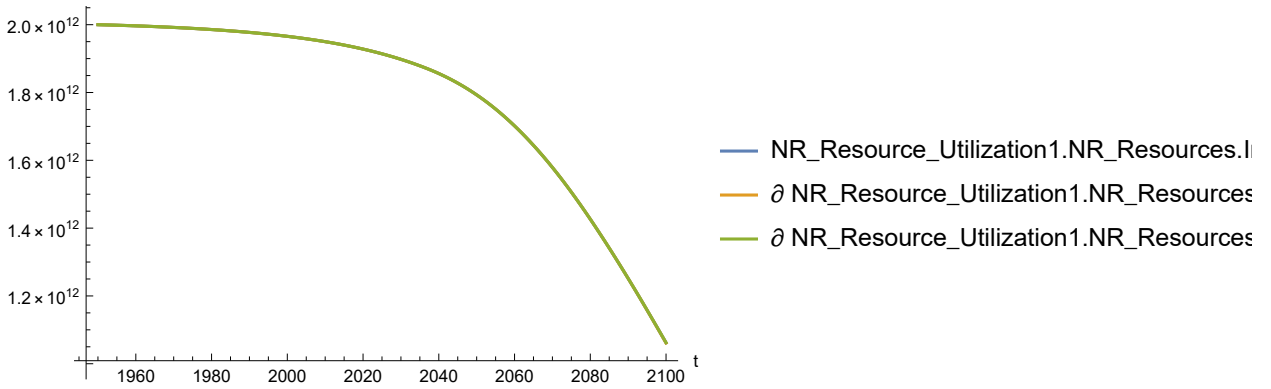
Out[190]=



In[191]:=

```
SystemModelPlot[simsensdata, {"NR_Resource_Utilization1.NR_Resources.Integrator1.y",
"Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[4]", percentvar}]
```

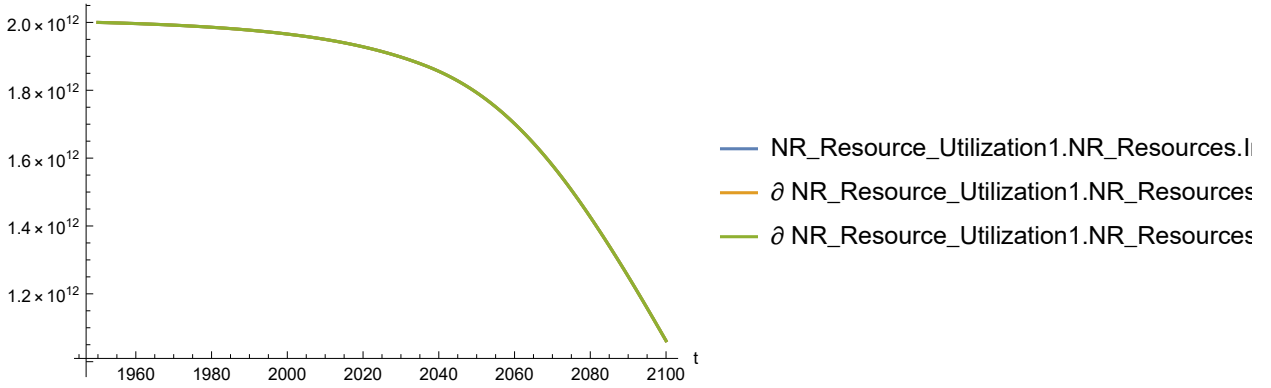
Out[191]=



In[192]:=

```
SystemModelPlot[simsensdata, {"NR_Resource_Utilization1.NR_Resources.Integrator1.y",
"Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[5]", percentvar}]
```

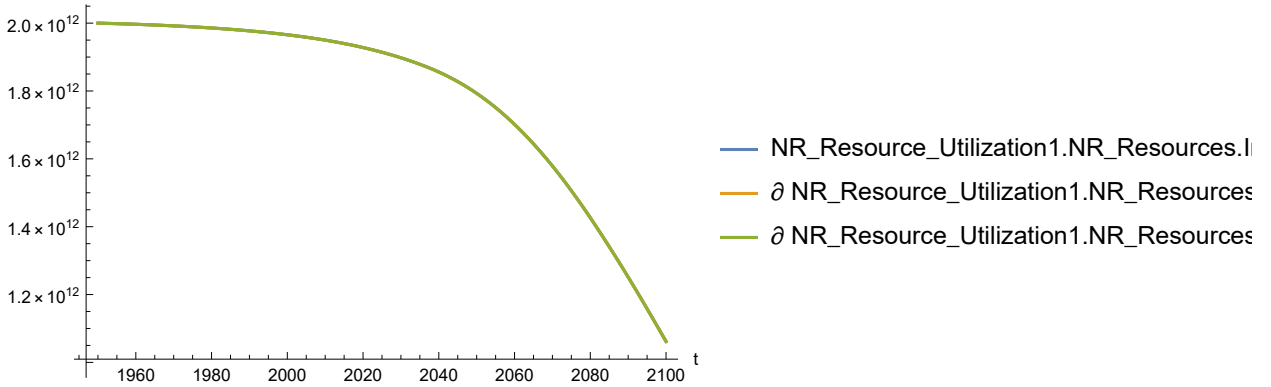
Out[192]=



In[193]:=

```
SystemModelPlot[simsensdata, {"NR_Resource_Utilization1.NR_Resources.Integrator1.y",
"Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[6]", percentvar}]
```

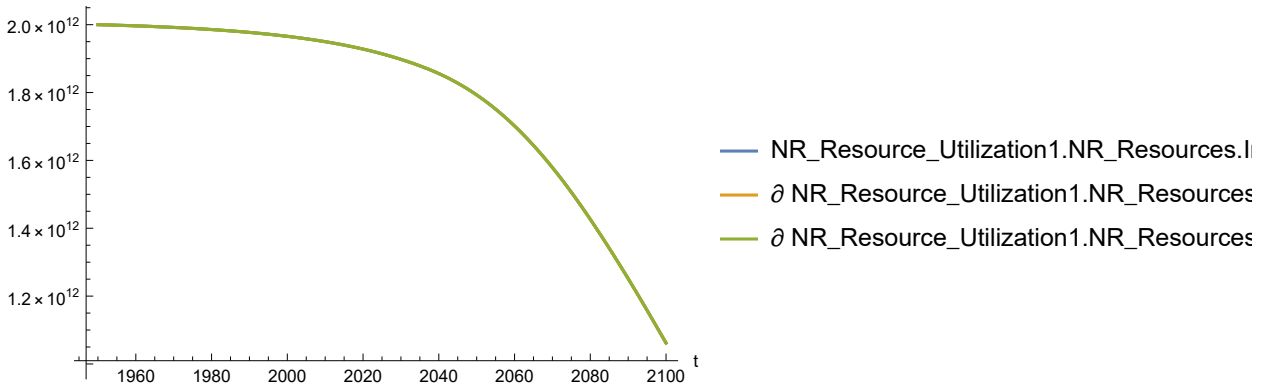
Out[193]=



In[194]:=

```
SystemModelPlot[simsensdata, {"NR_Resource_Utilization1.NR_Resources.Integrator1.y",
"Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[7]", percentvar}]
```

Out[194]=

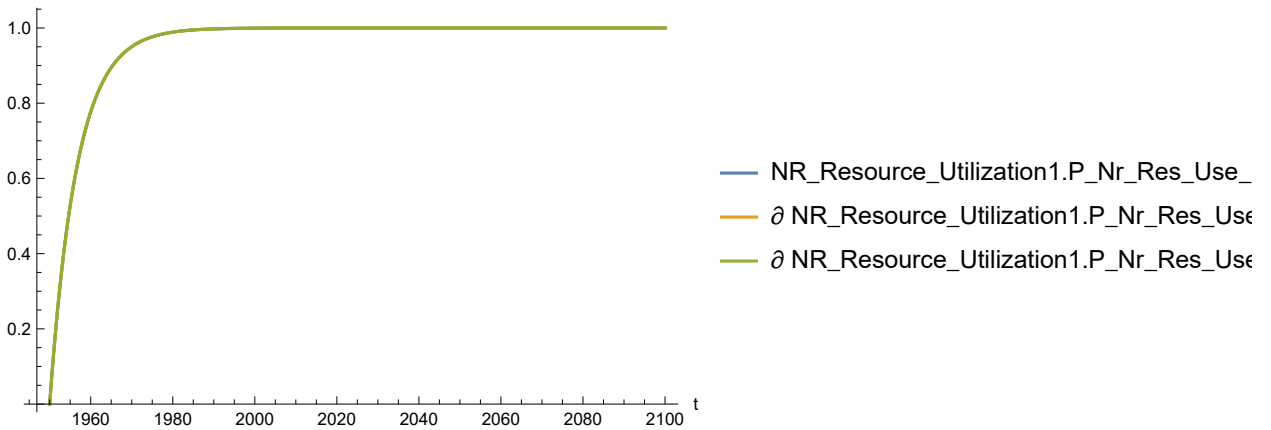


Plot the sensitivity of NR_Resource_Utilization1.P_Nr_Res_Use_Fact_2.Smooth1.Integrator1.y to Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals.

In[195]:=

```
SystemModelPlot[simsensdata,
{"NR_Resource_Utilization1.P_Nr_Res_Use_Fact_2.Smooth1.Integrator1.y",
"Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[1]", percentvar}]
```

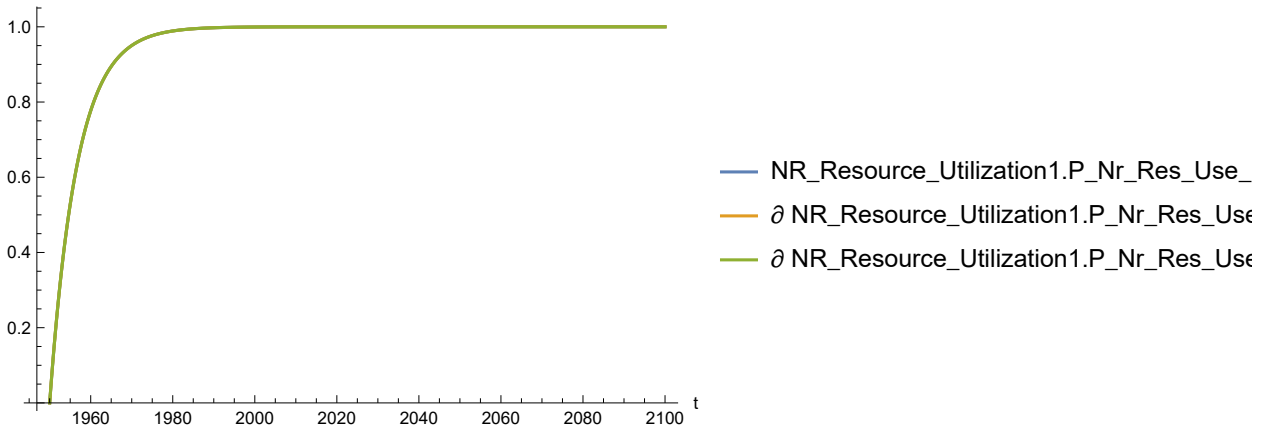
Out[195]=



In[196]:=

```
SystemModelPlot[simsensdata,
  {"NR_Resource_Utilization1.P_Nr_Res_Use_Fact_2.Smooth1.Integrator1.y",
   "Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[2]", percentvar}]
```

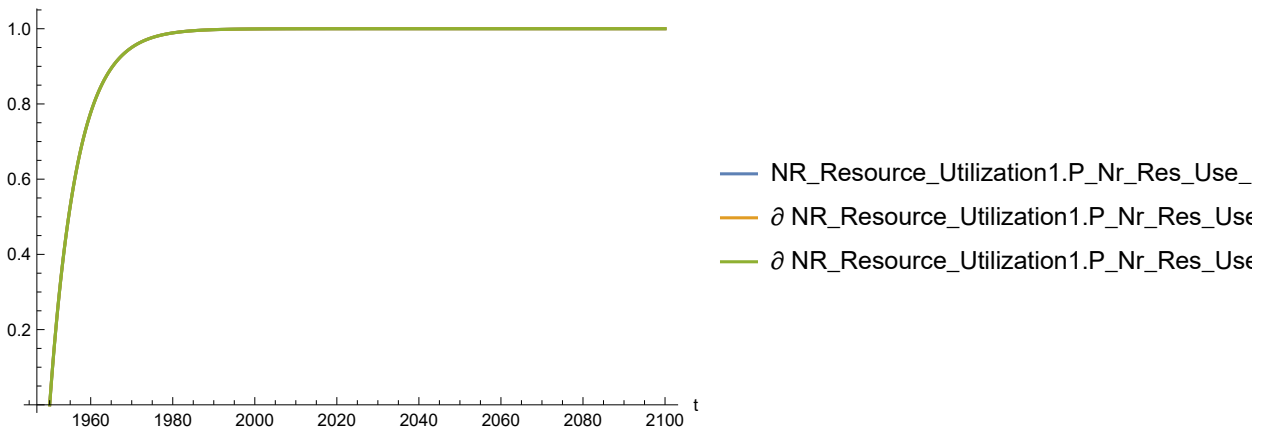
Out[196]=



In[197]:=

```
SystemModelPlot[simsensdata,
  {"NR_Resource_Utilization1.P_Nr_Res_Use_Fact_2.Smooth1.Integrator1.y",
   "Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[3]", percentvar}]
```

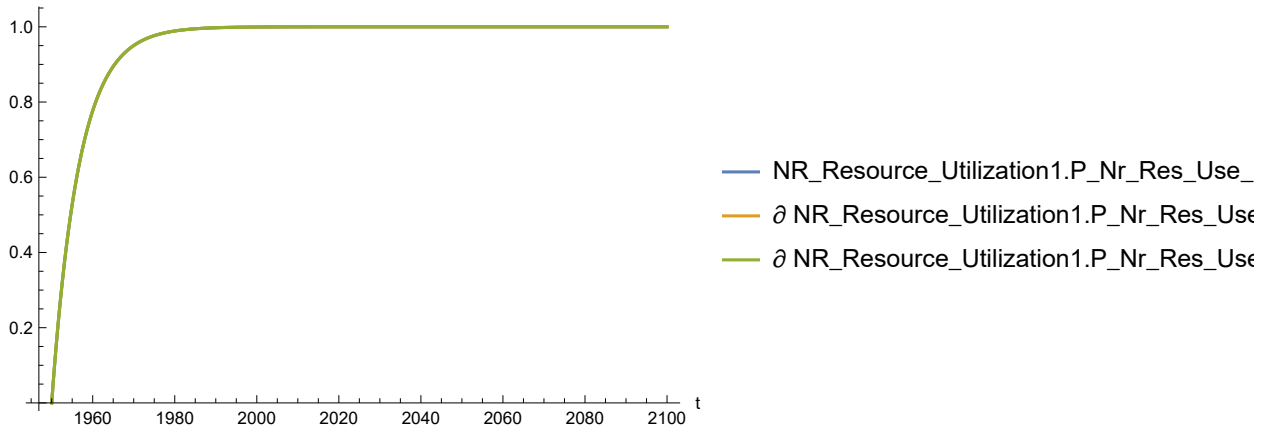
Out[197]=



In[198]:=

```
SystemModelPlot[simsensdata,
  {"NR_Resource_Utilization1.P_Nr_Res_Use_Fact_2.Smooth1.Integrator1.y",
   "Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[4]", percentvar}]
```

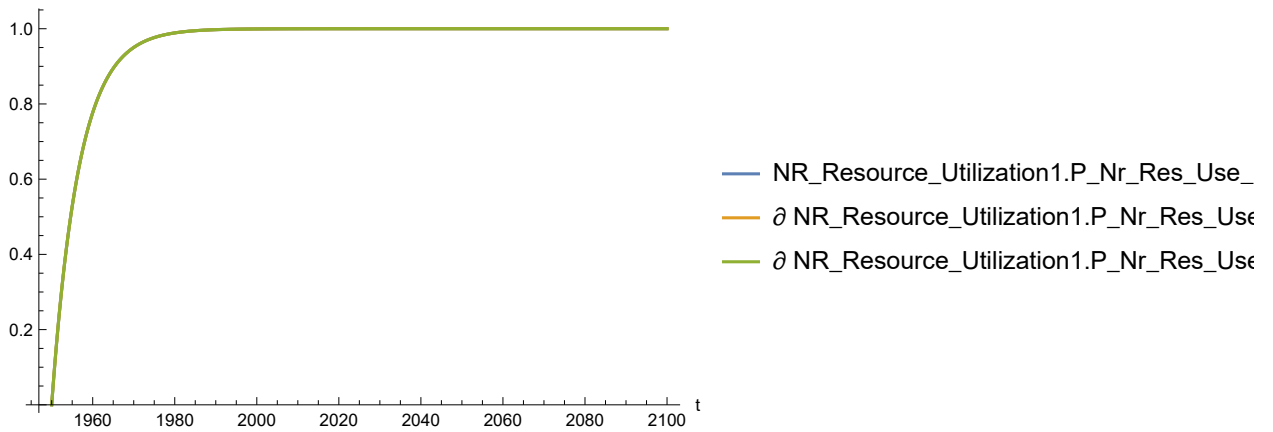
Out[198]=



In[199]:=

```
SystemModelPlot[simsensdata,
  {"NR_Resource_Utilization1.P_Nr_Res_Use_Fact_2.Smooth1.Integrator1.y",
   "Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[5]", percentvar}]
```

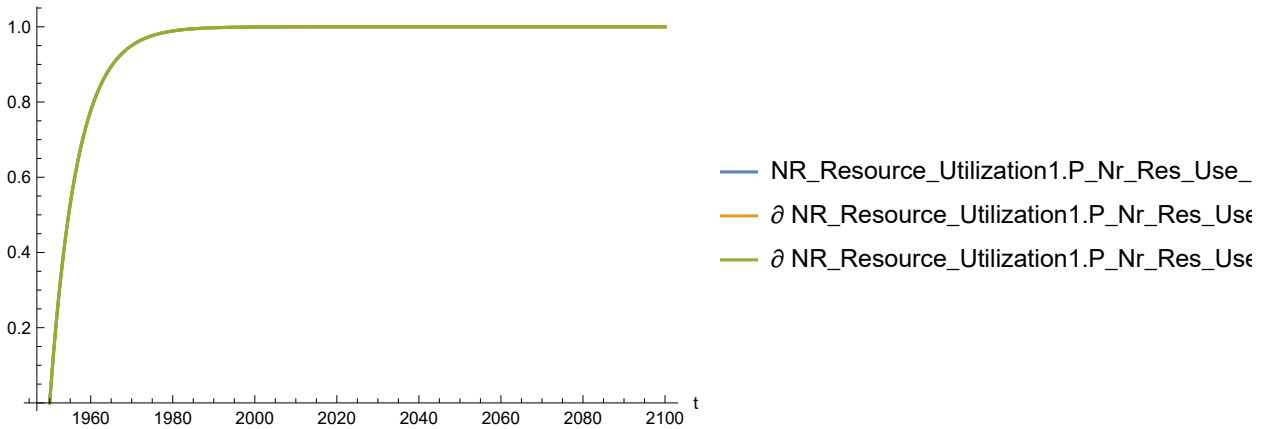
Out[199]=



In[200]:=

```
SystemModelPlot[simsensdata,
  {"NR_Resource_Utilization1.P_Nr_Res_Use_Fact_2.Smooth1.Integrator1.y",
   "Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[6]", percentvar}]
```

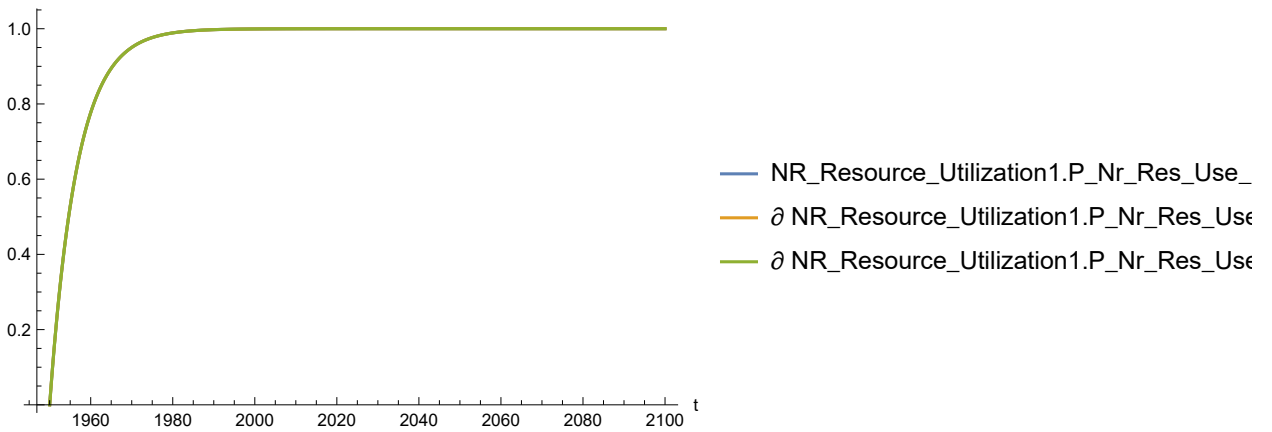
Out[200]=



In[201]:=

```
SystemModelPlot[simsensdata,
  {"NR_Resource_Utilization1.P_Nr_Res_Use_Fact_2.Smooth1.Integrator1.y",
   "Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[7]", percentvar}]
```

Out[201]=

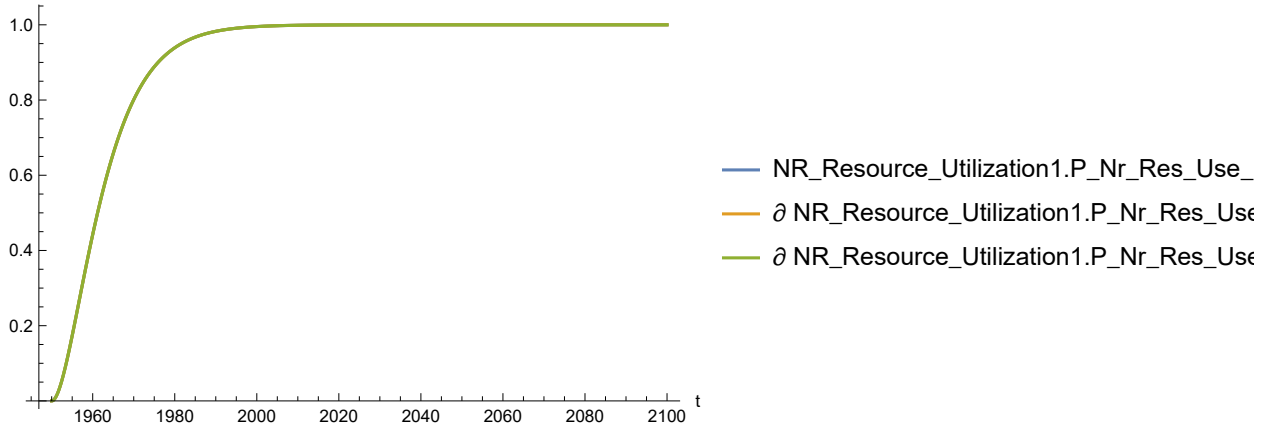


Plot the sensitivity of NR_Resource_Utilization1.P_Nr_Res_Use_Fact_2.Smooth2.Integrator1.y to Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals.

In[202]:=

```
SystemModelPlot[simsensdata,
  {"NR_Resource_Utilization1.P_Nr_Res_Use_Fact_2.Smooth2.Integrator1.y",
   "Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[1]", percentvar}]
```

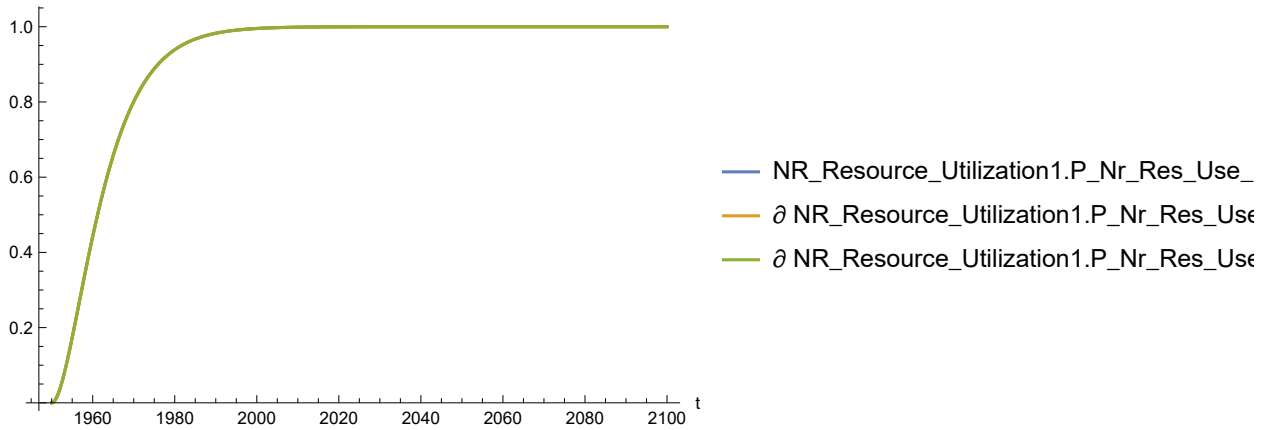
Out[202]=



In[203]:=

```
SystemModelPlot[simsensdata,
  {"NR_Resource_Utilization1.P_Nr_Res_Use_Fact_2.Smooth2.Integrator1.y",
   "Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[2]", percentvar}]
```

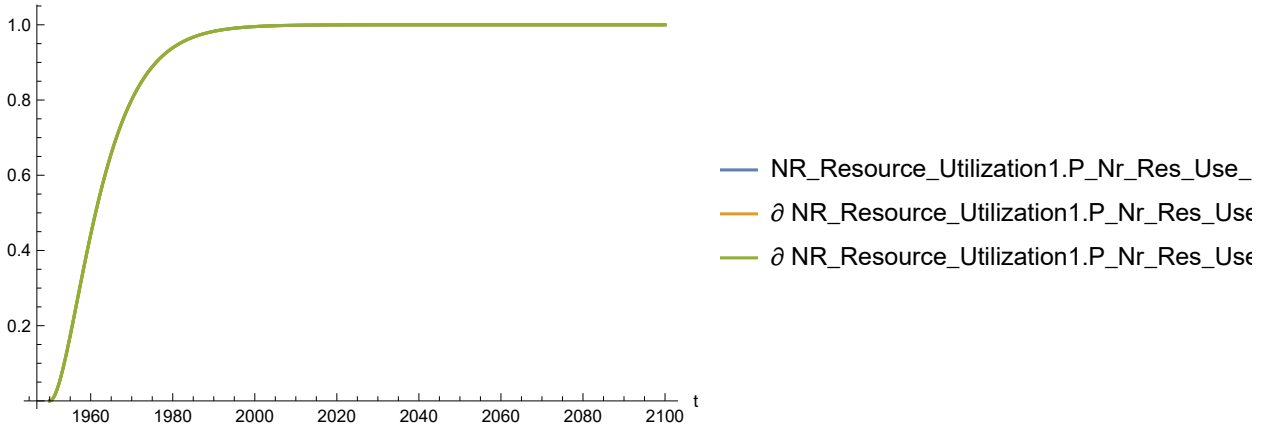
Out[203]=



In[204]:=

```
SystemModelPlot[simsensdata,
  {"NR_Resource_Utilization1.P_Nr_Res_Use_Fact_2.Smooth2.Integrator1.y",
   "Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[3]", percentvar}]
```

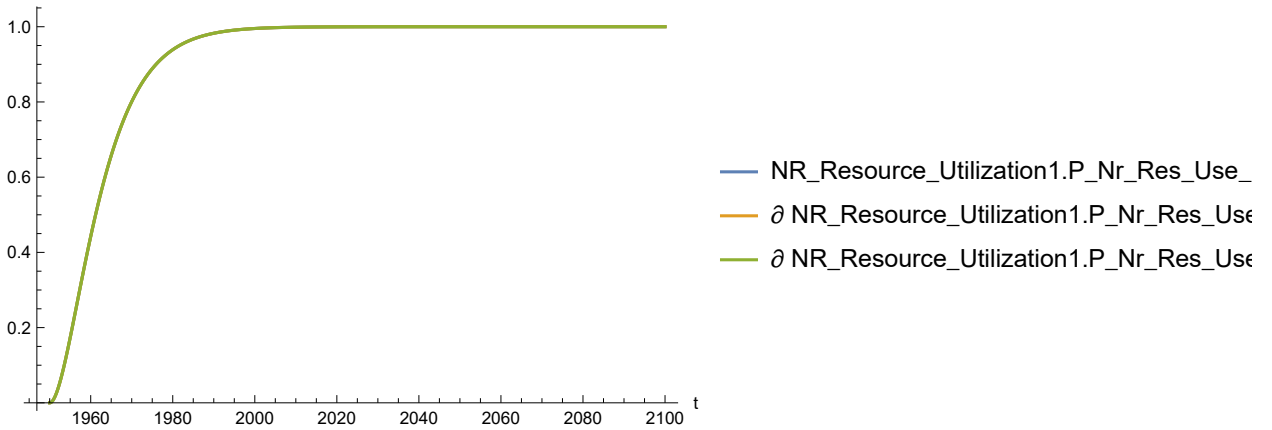
Out[204]=



In[205]:=

```
SystemModelPlot[simsensdata,
  {"NR_Resource_Utilization1.P_Nr_Res_Use_Fact_2.Smooth2.Integrator1.y",
   "Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[4]", percentvar}]
```

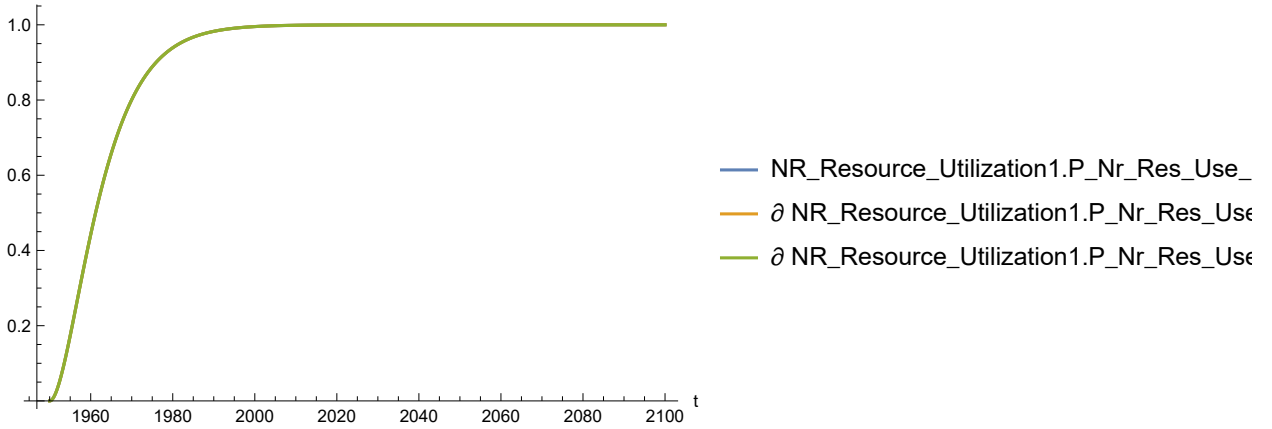
Out[205]=



In[206]:=

```
SystemModelPlot[simsensdata,
  {"NR_Resource_Utilization1.P_Nr_Res_Use_Fact_2.Smooth2.Integrator1.y",
   "Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[5]", percentvar}]
```

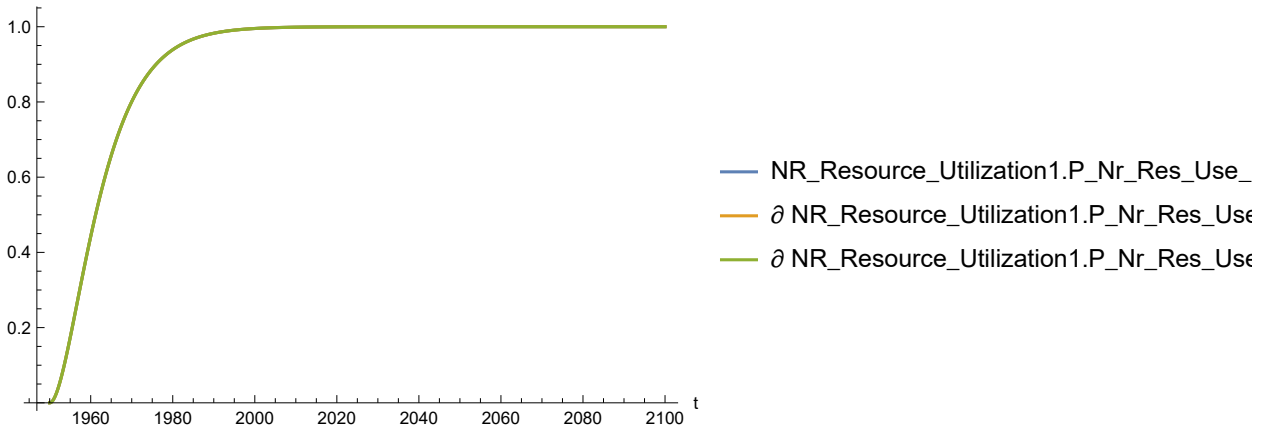
Out[206]=



In[207]:=

```
SystemModelPlot[simsensdata,
  {"NR_Resource_Utilization1.P_Nr_Res_Use_Fact_2.Smooth2.Integrator1.y",
   "Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[6]", percentvar}]
```

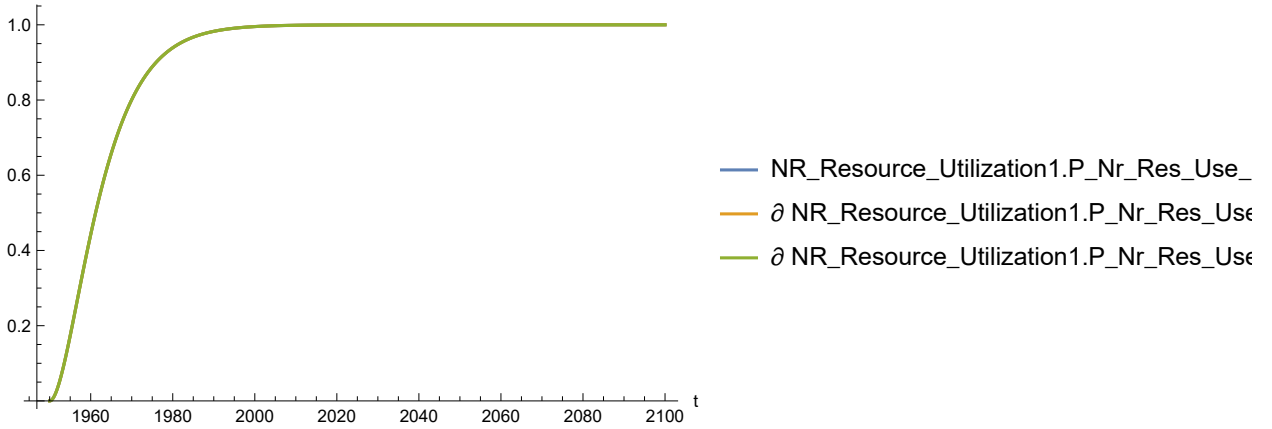
Out[207]=



In[208]:=

```
SystemModelPlot[simsensdata,
  {"NR_Resource_Utilization1.P_Nr_Res_Use_Fact_2.Smooth2.Integrator1.y",
   "Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[7]", percentvar}]
```

Out[208]=

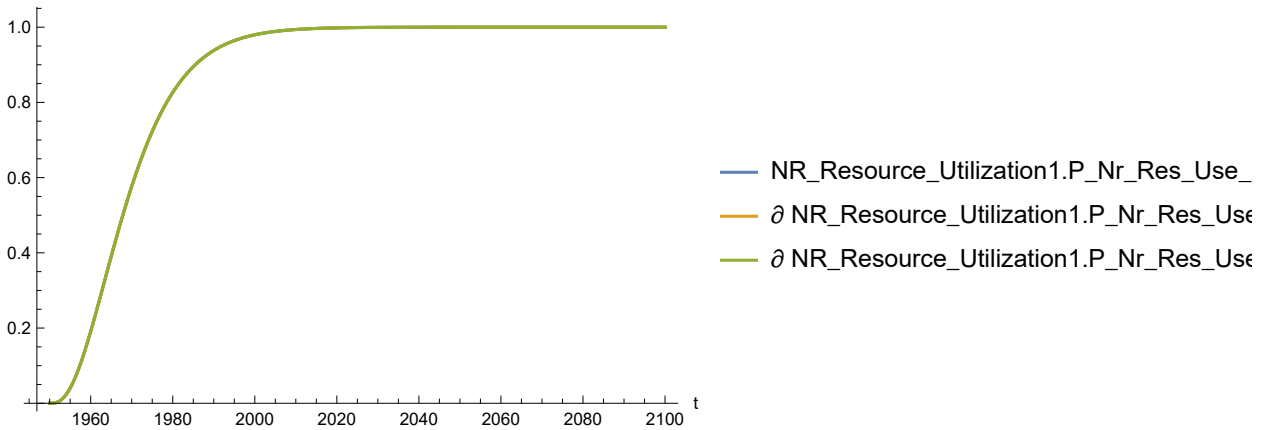


Plot the sensitivity of NR_Resource_Utilization1.P_Nr_Res_Use_Fact_2.Smooth3.Integrator1.y to Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals.

In[209]:=

```
SystemModelPlot[simsensdata,
  {"NR_Resource_Utilization1.P_Nr_Res_Use_Fact_2.Smooth3.Integrator1.y",
   "Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[1]", percentvar}]
```

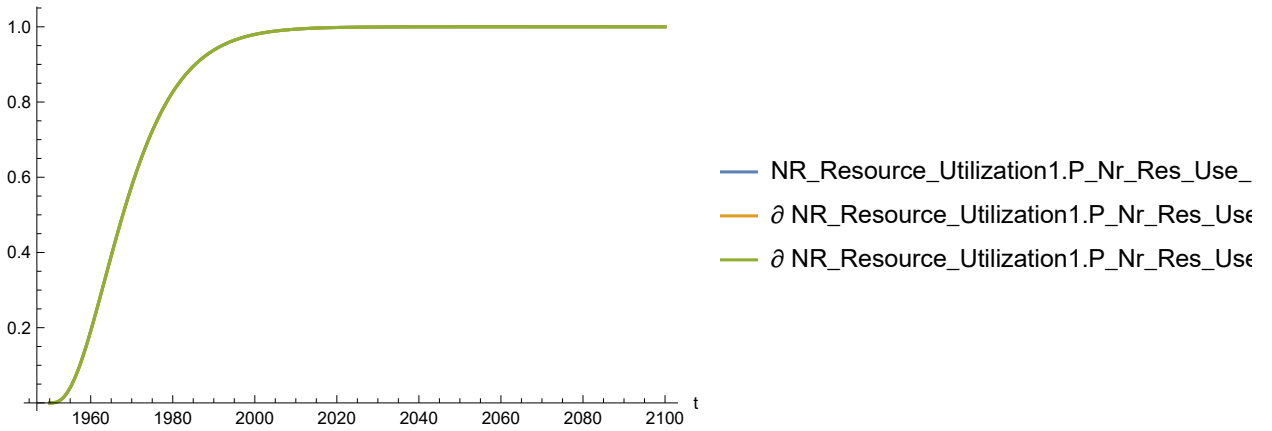
Out[209]=



In[210]:=

```
SystemModelPlot[simsensdata,
  {"NR_Resource_Utilization1.P_Nr_Res_Use_Fact_2.Smooth3.Integrator1.y",
   "Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[2]", percentvar}]
```

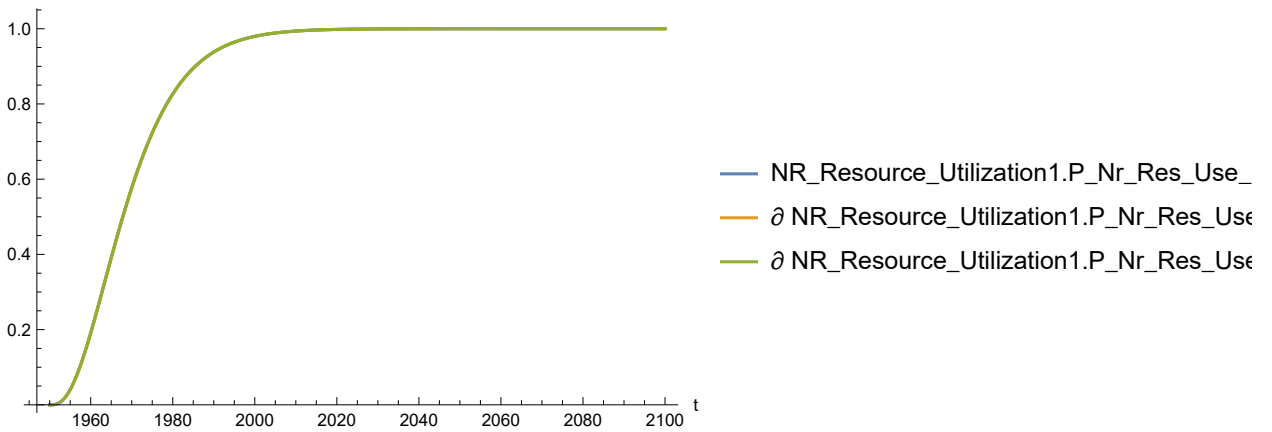
Out[210]=



In[211]:=

```
SystemModelPlot[simsensdata,
  {"NR_Resource_Utilization1.P_Nr_Res_Use_Fact_2.Smooth3.Integrator1.y",
   "Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[3]", percentvar}]
```

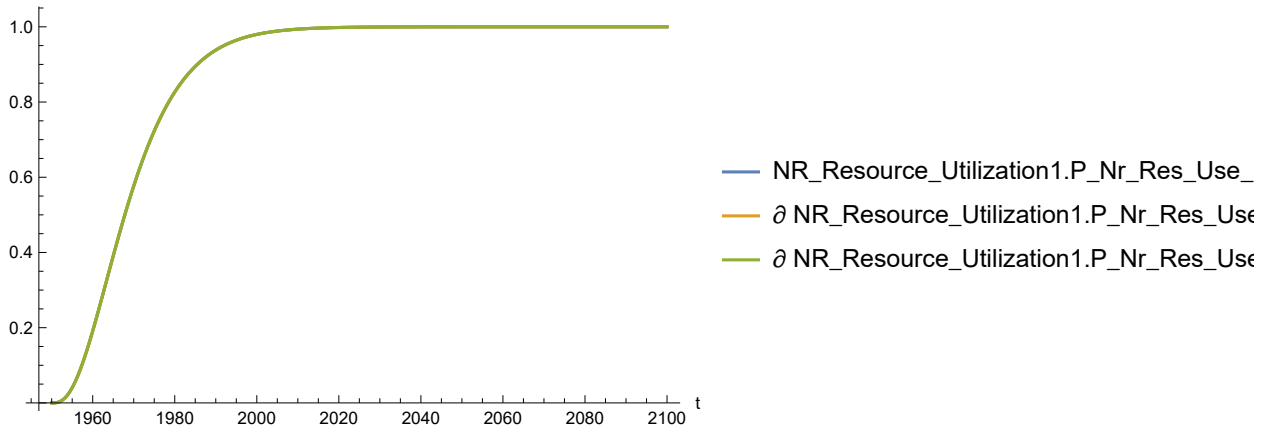
Out[211]=



In[212]:=

```
SystemModelPlot[simsensdata,
  {"NR_Resource_Utilization1.P_Nr_Res_Use_Fact_2.Smooth3.Integrator1.y",
   "Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[4]", percentvar}]
```

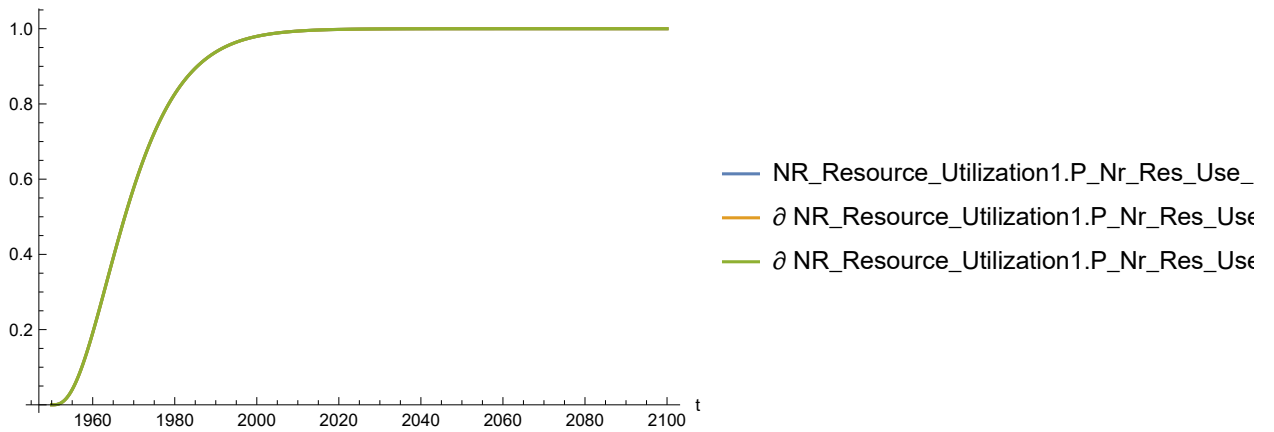
Out[212]=



In[213]:=

```
SystemModelPlot[simsensdata,
  {"NR_Resource_Utilization1.P_Nr_Res_Use_Fact_2.Smooth3.Integrator1.y",
   "Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[5]", percentvar}]
```

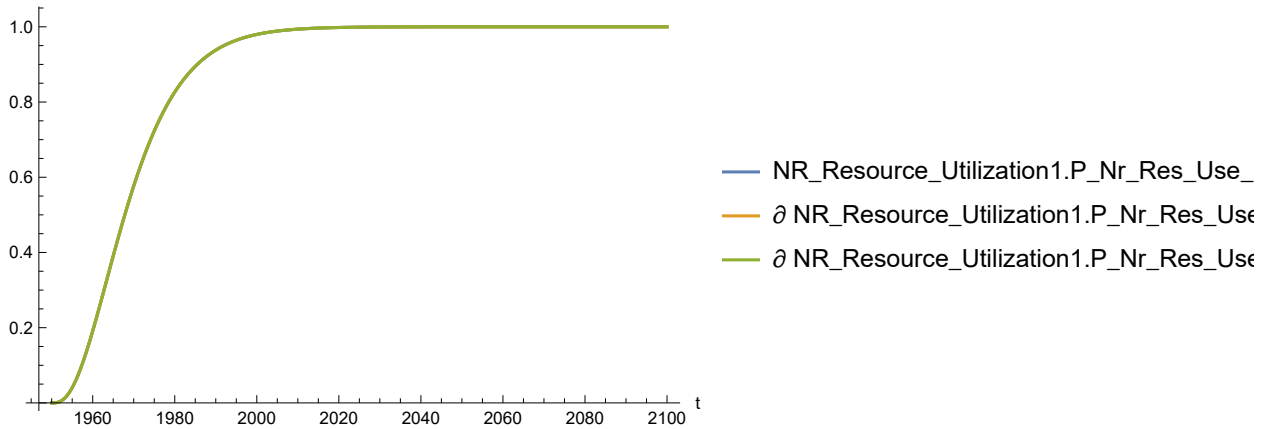
Out[213]=



In[214]:=

```
SystemModelPlot[simsensdata,
  {"NR_Resource_Utilization1.P_Nr_Res_Use_Fact_2.Smooth3.Integrator1.y",
   "Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[6]", percentvar}]
```

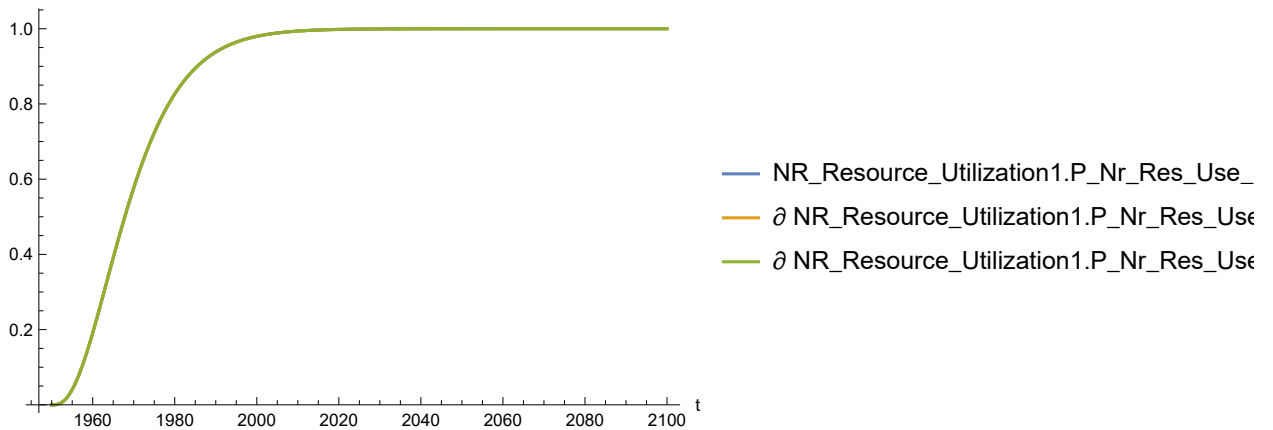
Out[214]=



In[215]:=

```
SystemModelPlot[simsensdata,
  {"NR_Resource_Utilization1.P_Nr_Res_Use_Fact_2.Smooth3.Integrator1.y",
   "Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[7]", percentvar}]
```

Out[215]=

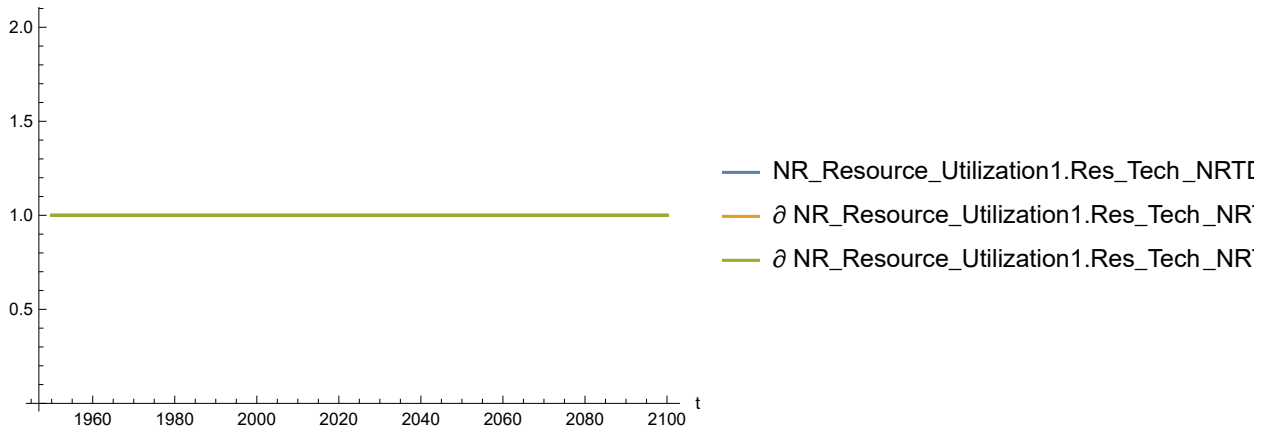


Plot the sensitivity of `NR_Resource_Utilization1.Res_Tech_NRTD.Integrator1.y` to `Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals`.

In[216]:=

```
SystemModelPlot[simsensdata, {"NR_Resource_Utilization1.Res_Tech_NRTD.Integrator1.y",
"Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[1]", percentvar}]
```

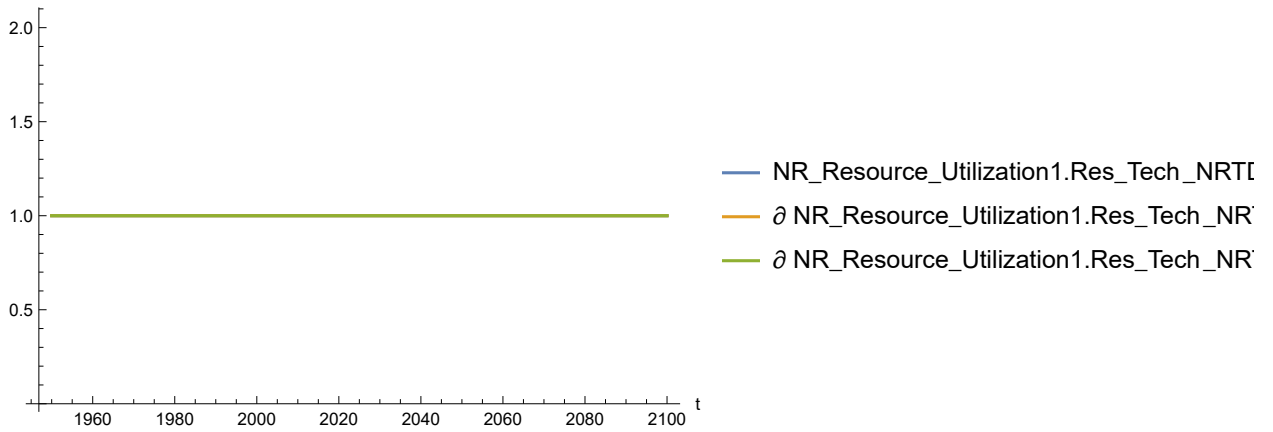
Out[216]=



In[217]:=

```
SystemModelPlot[simsensdata, {"NR_Resource_Utilization1.Res_Tech_NRTD.Integrator1.y",
"Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[2]", percentvar}]
```

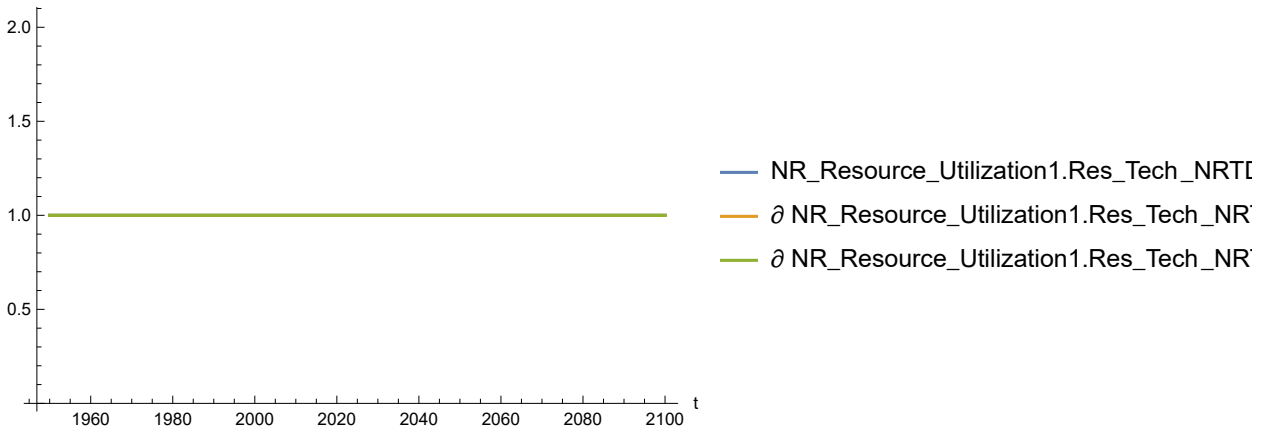
Out[217]=



In[218]:=

```
SystemModelPlot[simsensdata, {"NR_Resource_Utilization1.Res_Tech_NRTD.Integrator1.y",
"Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[3]", percentvar}]
```

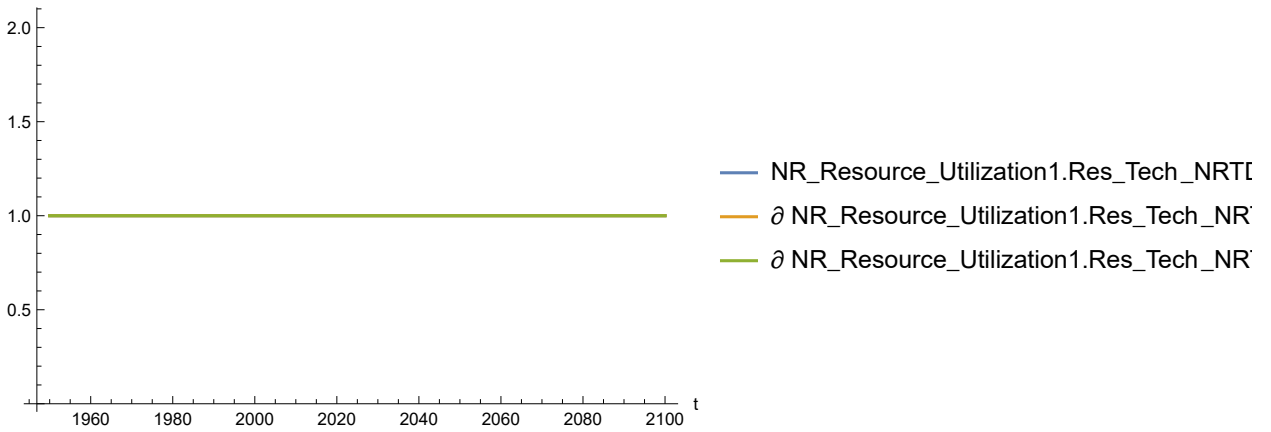
Out[218]=



In[219]:=

```
SystemModelPlot[simsensdata, {"NR_Resource_Utilization1.Res_Tech_NRTD.Integrator1.y",
"Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[4]", percentvar}]
```

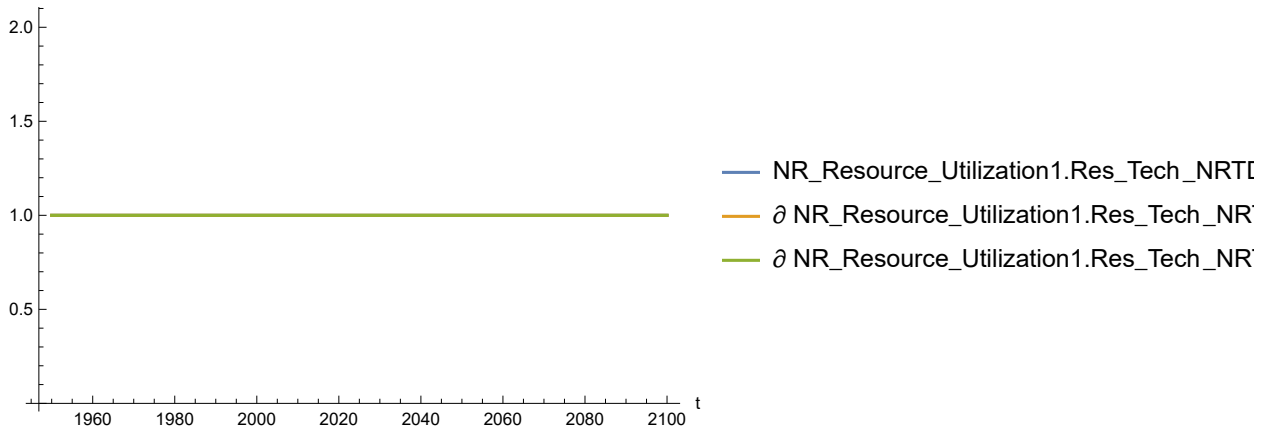
Out[219]=



In[220]:=

```
SystemModelPlot[simsensdata, {"NR_Resource_Utilization1.Res_Tech_NRTD.Integrator1.y",
"Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[5]", percentvar}]
```

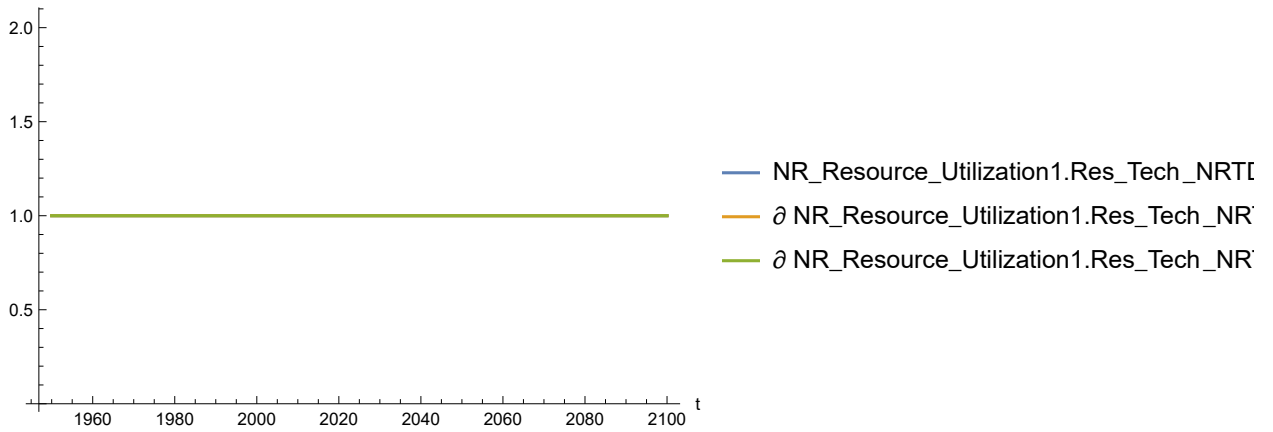
Out[220]=



In[221]:=

```
SystemModelPlot[simsensdata, {"NR_Resource_Utilization1.Res_Tech_NRTD.Integrator1.y",
"Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[6]", percentvar}]
```

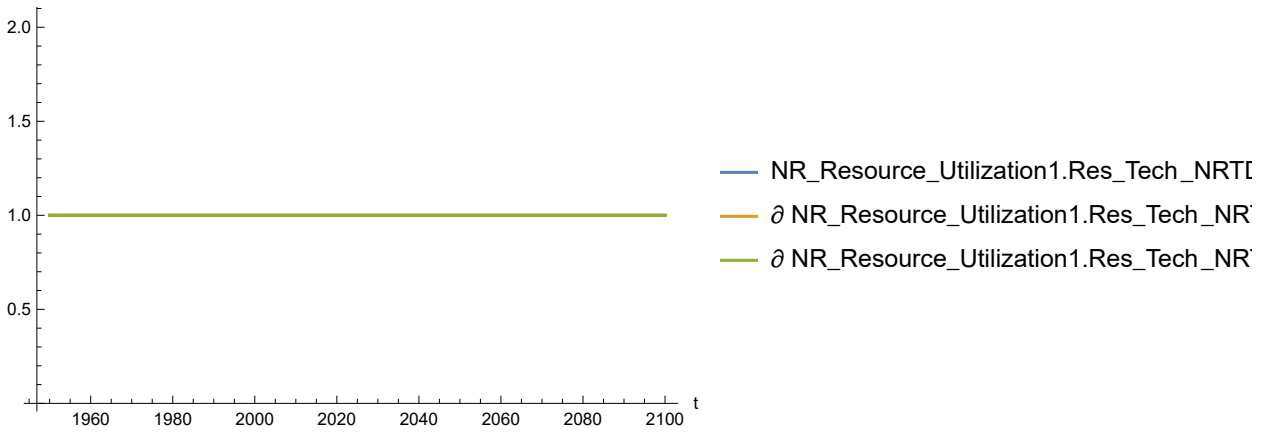
Out[221]=



In[222]:=

```
SystemModelPlot[simsensdata, {"NR_Resource_Utilization1.Res_Tech_NRTD.Integrator1.y",
"Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[7]", percentvar}]
```

Out[222]=

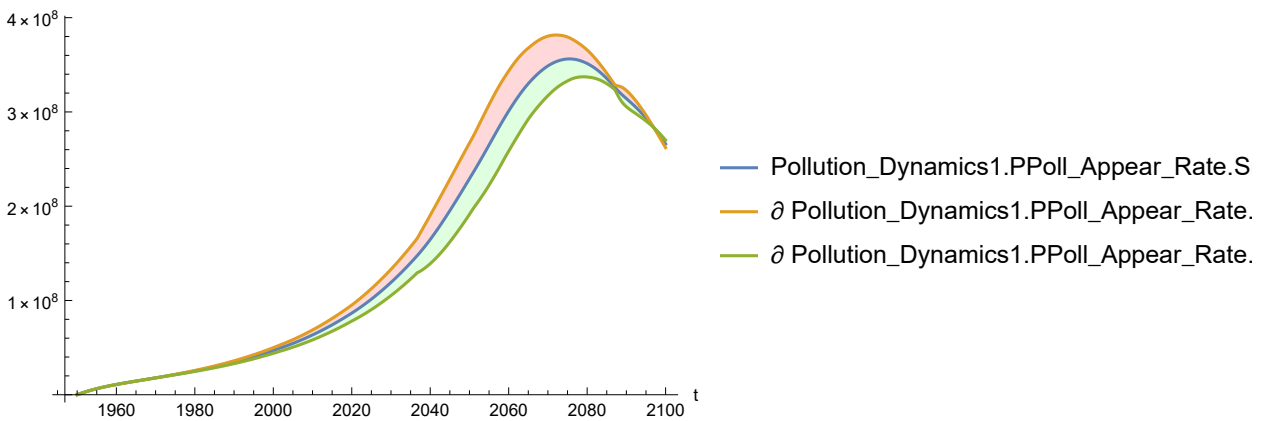


Plot the sensitivity of Pollution_Dynamics1.PPoll_Appear_Rate.Smooth1.Integrator1.y to Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals.

In[223]:=

```
SystemModelPlot[simsensdata,
{"Pollution_Dynamics1.PPoll_Appear_Rate.Smooth1.Integrator1.y",
"Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[1]", percentvar}]
```

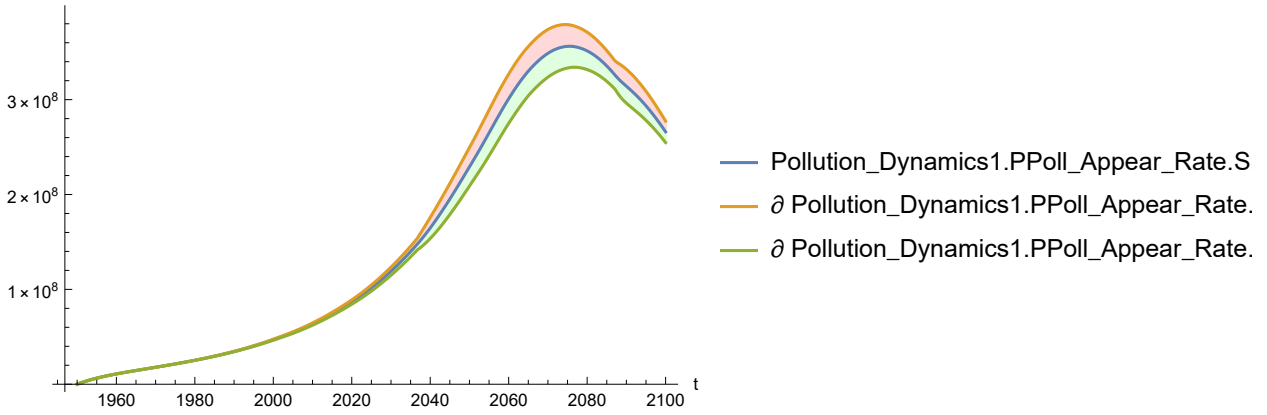
Out[223]=



In[224]:=

```
SystemModelPlot[simsensdata,
  {"Pollution_Dynamics1.PPoll_Appear_Rate.Smooth1.Integrator1.y",
   "Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[2]", percentvar}]
```

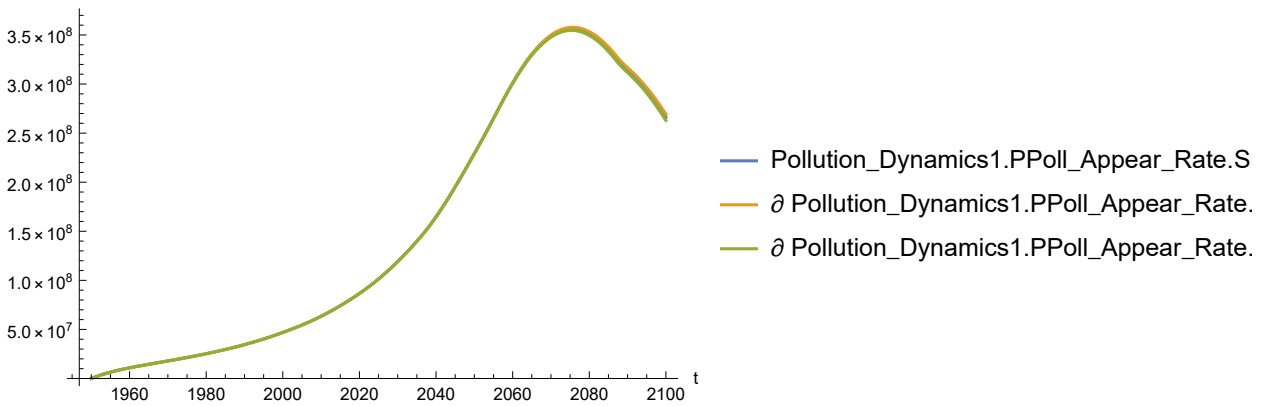
Out[224]=



In[225]:=

```
SystemModelPlot[simsensdata,
  {"Pollution_Dynamics1.PPoll_Appear_Rate.Smooth1.Integrator1.y",
   "Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[3]", percentvar}]
```

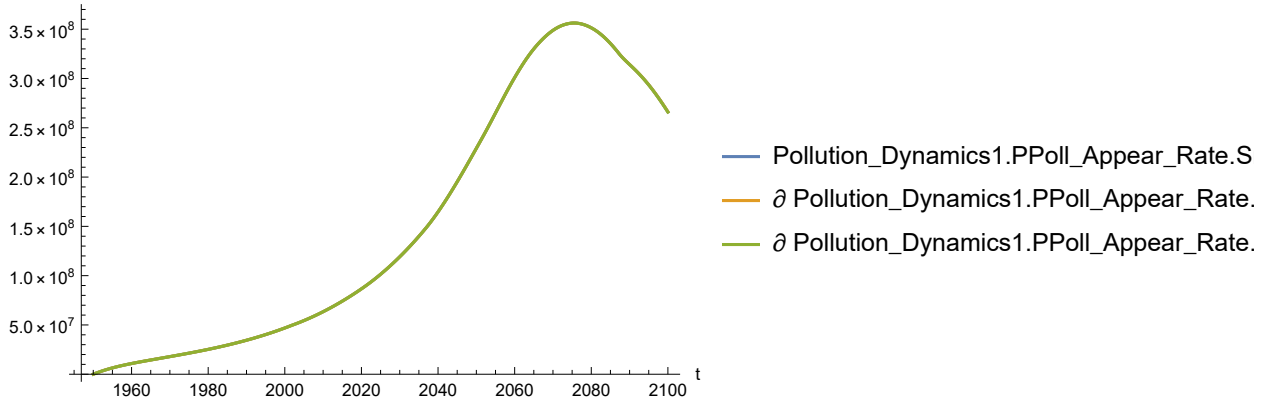
Out[225]=



In[226]:=

```
SystemModelPlot[simsensdata,
  {"Pollution_Dynamics1.PPoll_Appear_Rate.Smooth1.Integrator1.y",
   "Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[4]", percentvar}]
```

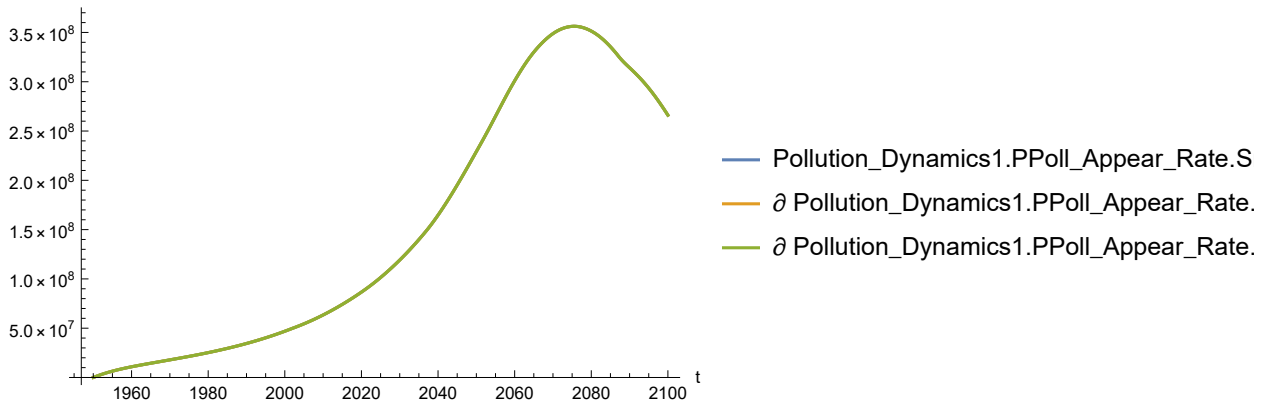
Out[226]=



In[227]:=

```
SystemModelPlot[simsensdata,
  {"Pollution_Dynamics1.PPoll_Appear_Rate.Smooth1.Integrator1.y",
   "Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[5]", percentvar}]
```

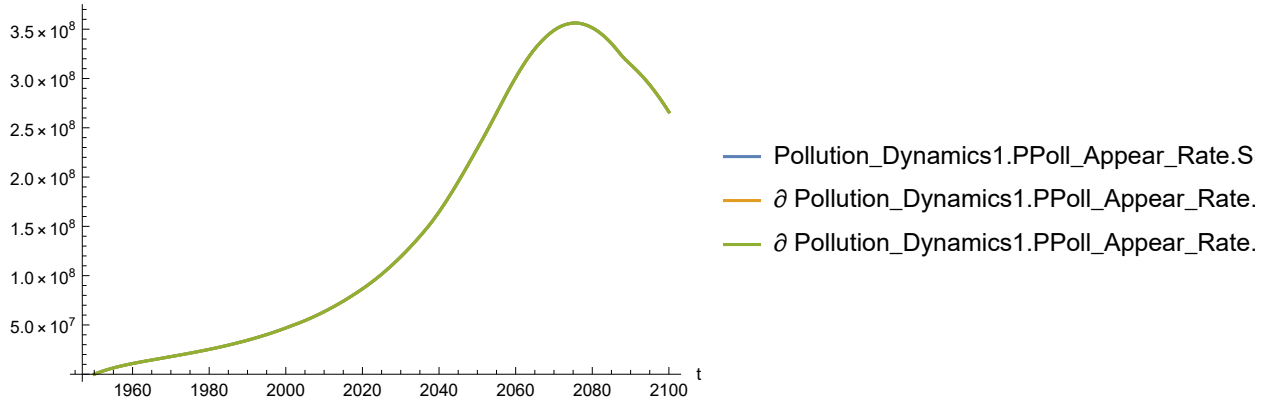
Out[227]=



In[228]:=

```
SystemModelPlot[simsensdata,
  {"Pollution_Dynamics1.PPoll_Appear_Rate.Smooth1.Integrator1.y",
   "Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[6]", percentvar}]
```

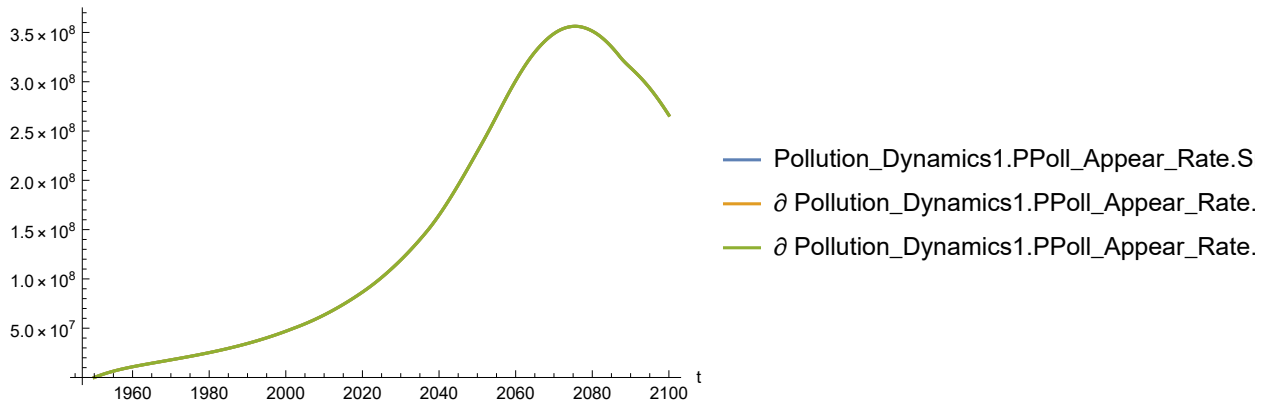
Out[228]=



In[229]:=

```
SystemModelPlot[simsensdata,
  {"Pollution_Dynamics1.PPoll_Appear_Rate.Smooth1.Integrator1.y",
   "Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[7]", percentvar}]
```

Out[229]=

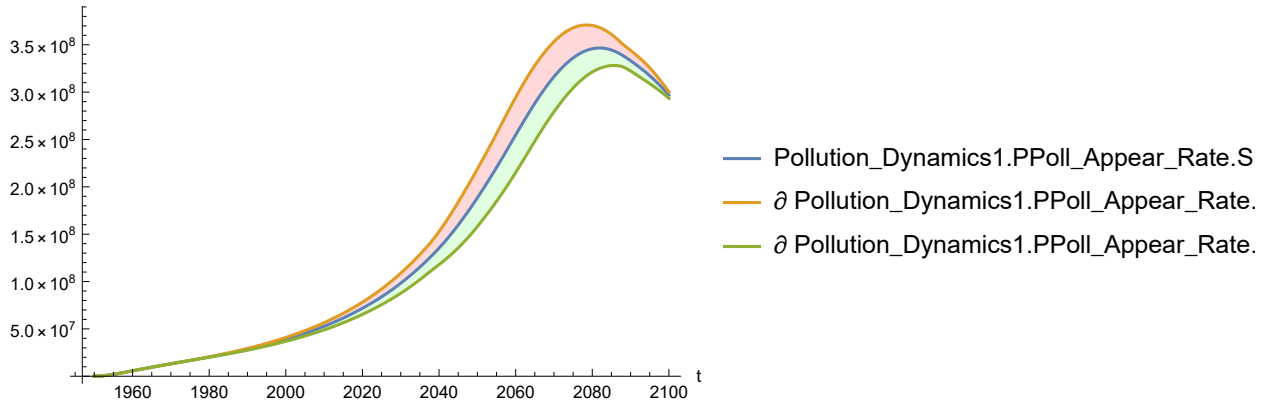


Plot the sensitivity of Pollution_Dynamics1.PPoll_Appear_Rate.Smooth2.Integrator1.y to Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals.

In[230]:=

```
SystemModelPlot[simsensdata,
  {"Pollution_Dynamics1.PPoll_Appear_Rate.Smooth2.Integrator1.y",
   "Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[1]", percentvar}]
```

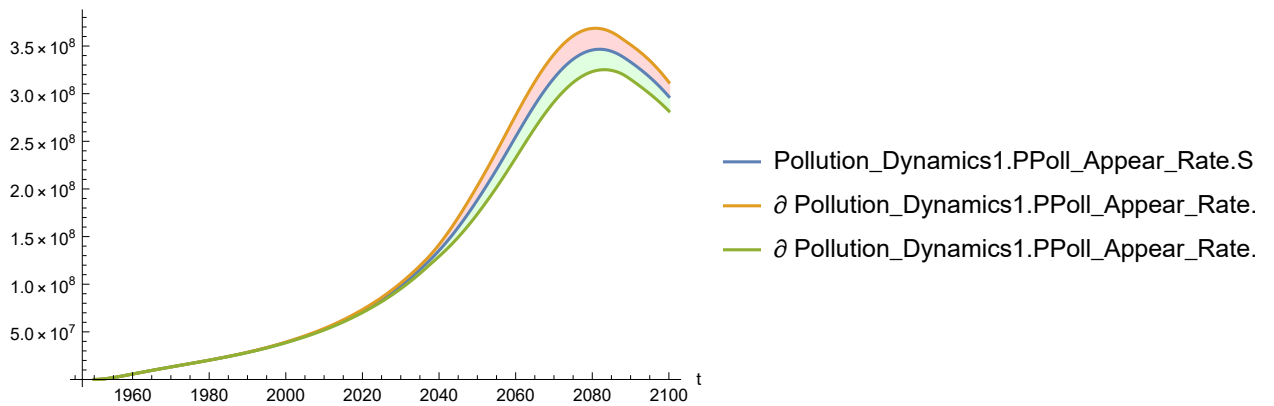
Out[230]=



In[231]:=

```
SystemModelPlot[simsensdata,
  {"Pollution_Dynamics1.PPoll_Appear_Rate.Smooth2.Integrator1.y",
   "Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[2]", percentvar}]
```

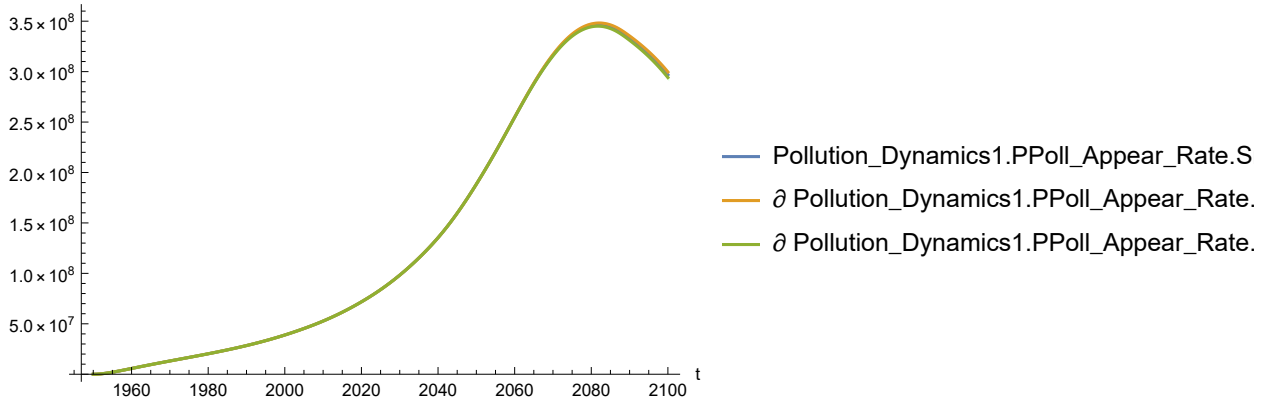
Out[231]=



In[232]:=

```
SystemModelPlot[simsensdata,
  {"Pollution_Dynamics1.PPoll_Appear_Rate.Smooth2.Integrator1.y",
   "Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[3]", percentvar}]
```

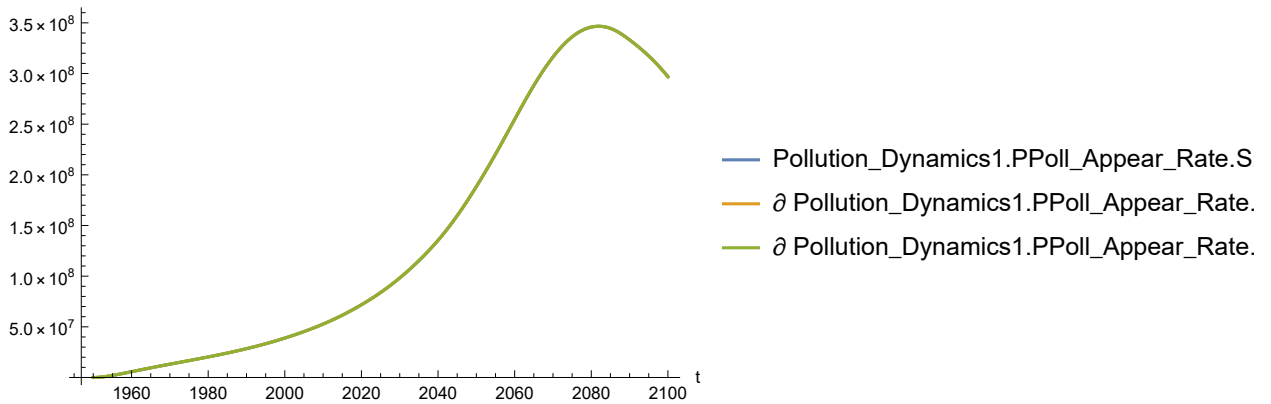
Out[232]=



In[233]:=

```
SystemModelPlot[simsensdata,
  {"Pollution_Dynamics1.PPoll_Appear_Rate.Smooth2.Integrator1.y",
   "Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[4]", percentvar}]
```

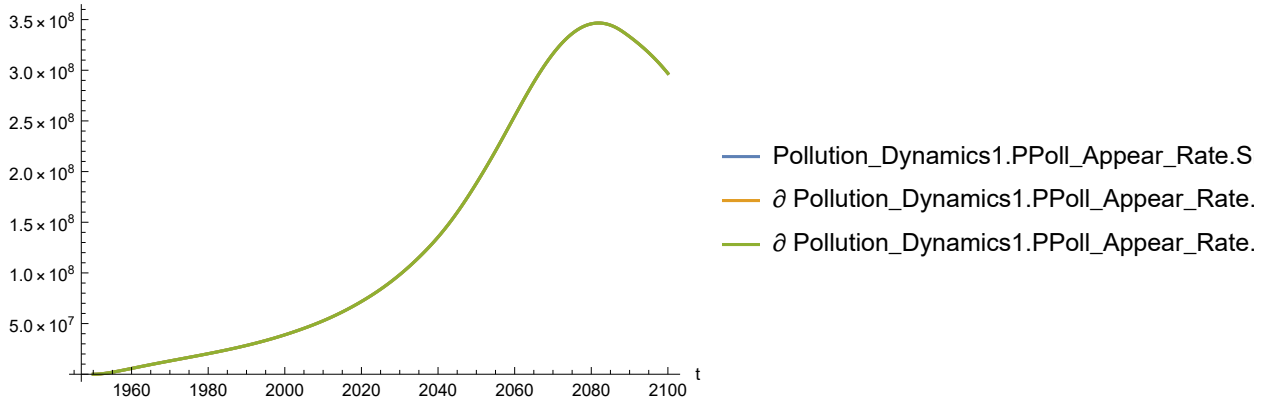
Out[233]=



In[234]:=

```
SystemModelPlot[simsensdata,
  {"Pollution_Dynamics1.PPoll_Appear_Rate.Smooth2.Integrator1.y",
   "Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[5]", percentvar}]
```

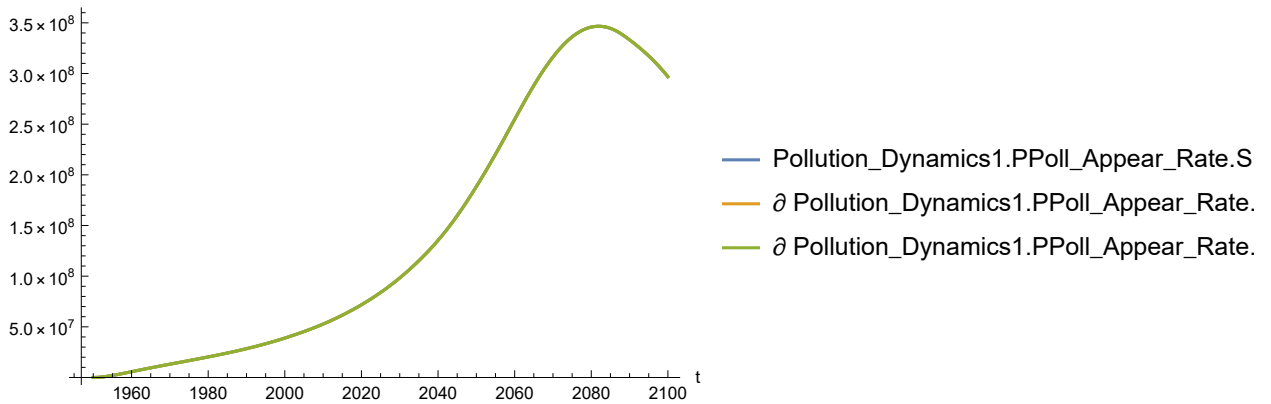
Out[234]=



In[235]:=

```
SystemModelPlot[simsensdata,
  {"Pollution_Dynamics1.PPoll_Appear_Rate.Smooth2.Integrator1.y",
   "Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[6]", percentvar}]
```

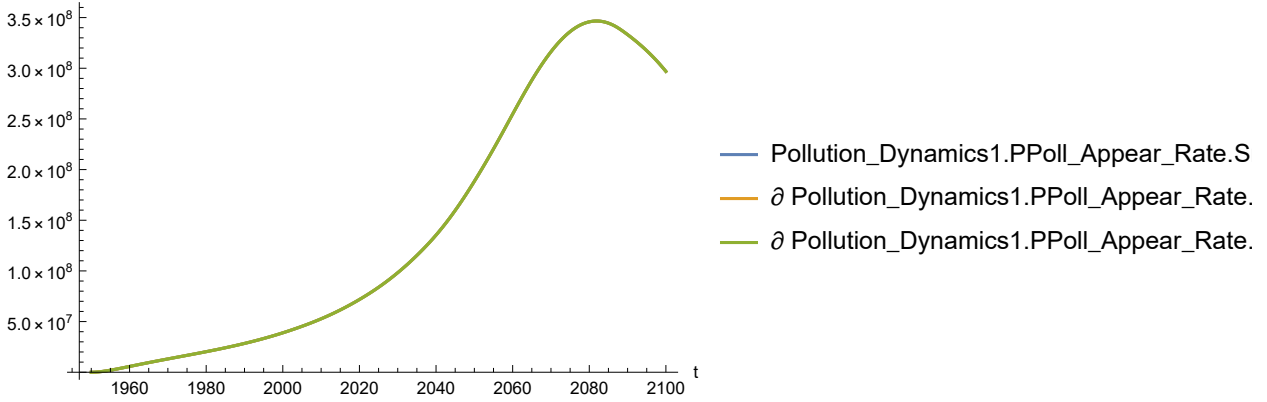
Out[235]=



In[236]:=

```
SystemModelPlot[simsensdata,
  {"Pollution_Dynamics1.PPoll_Appear_Rate.Smooth2.Integrator1.y",
   "Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[7]", percentvar}]
```

Out[236]:=

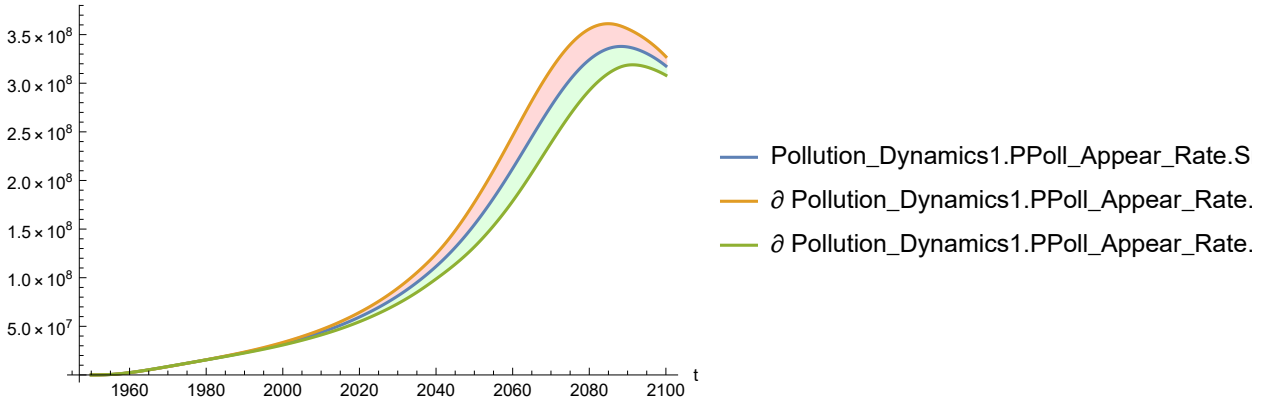


Plot the sensitivity of Pollution_Dynamics1.PPoll_Appear_Rate.Smooth3.Integrator1.y to Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals.

In[237]:=

```
SystemModelPlot[simsensdata,
  {"Pollution_Dynamics1.PPoll_Appear_Rate.Smooth3.Integrator1.y",
   "Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[1]", percentvar}]
```

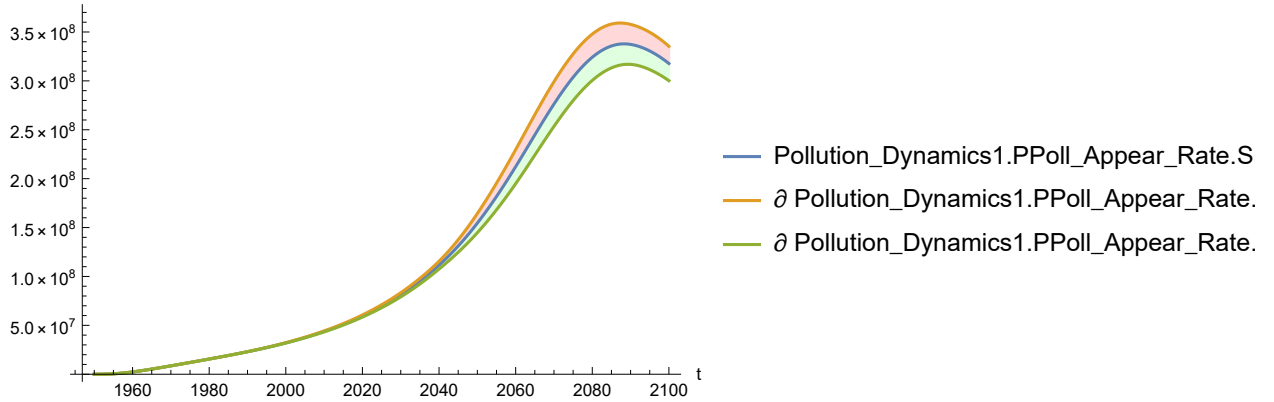
Out[237]:=



In[238]:=

```
SystemModelPlot[simsensdata,
  {"Pollution_Dynamics1.PPoll_Appear_Rate.Smooth3.Integrator1.y",
   "Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[2]", percentvar}]
```

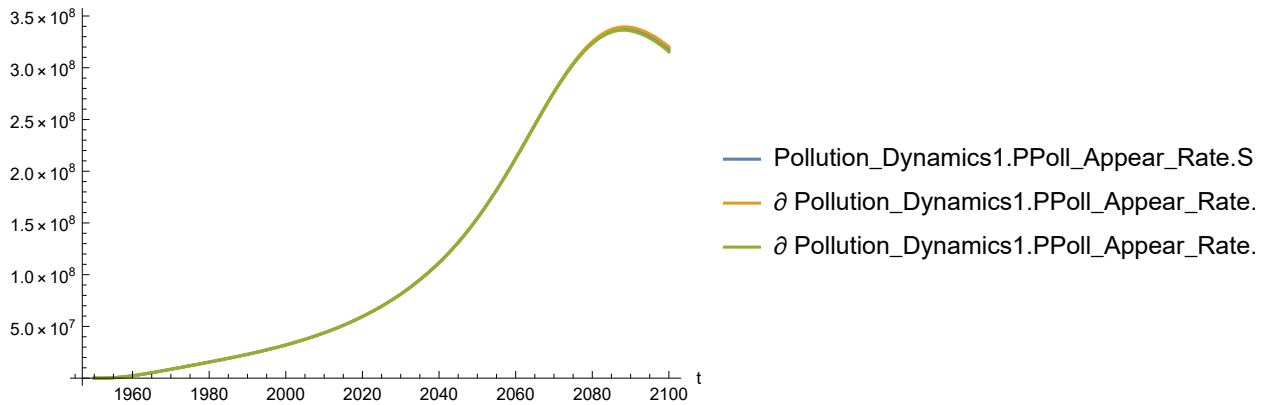
Out[238]=



In[239]:=

```
SystemModelPlot[simsensdata,
  {"Pollution_Dynamics1.PPoll_Appear_Rate.Smooth3.Integrator1.y",
   "Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[3]", percentvar}]
```

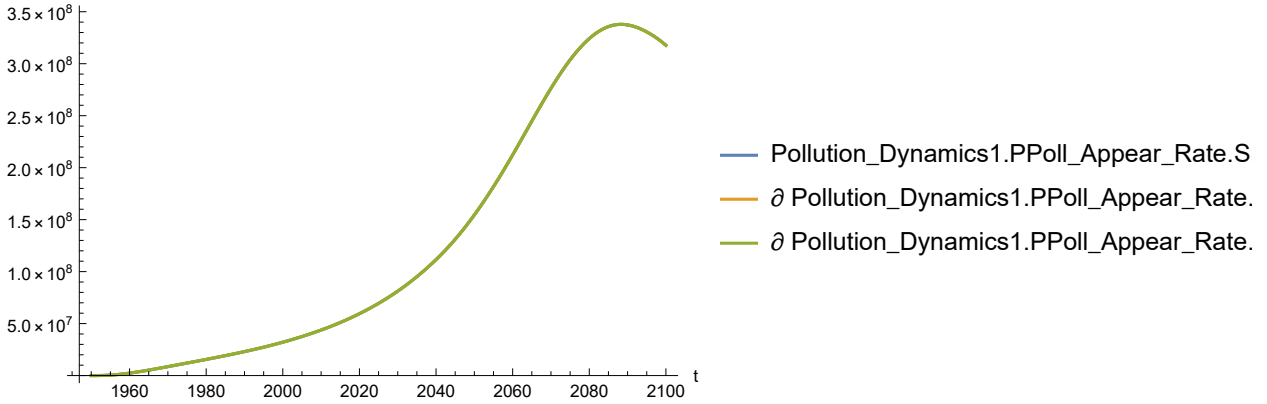
Out[239]=



In[240]:=

```
SystemModelPlot[simsensdata,
  {"Pollution_Dynamics1.PPoll_Appear_Rate.Smooth3.Integrator1.y",
   "Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[4]", percentvar}]
```

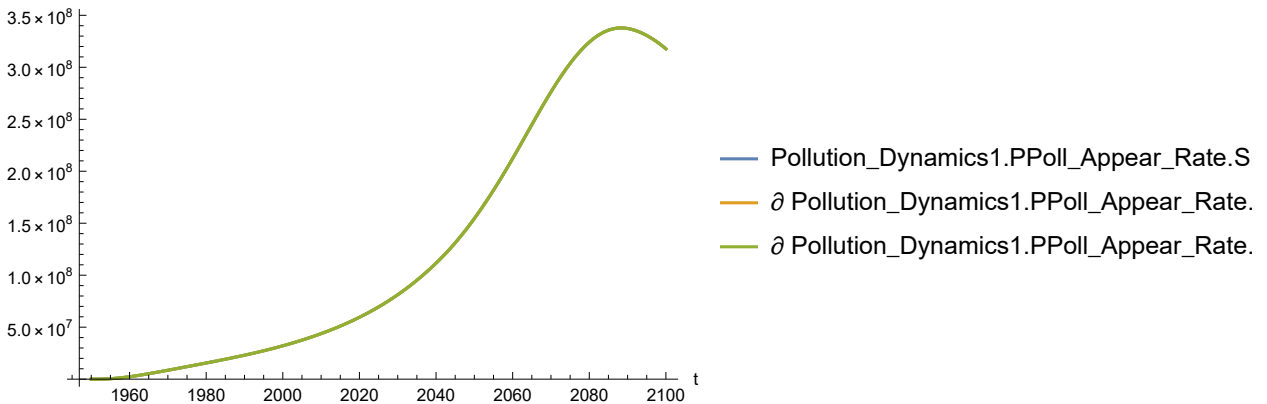
Out[240]=



In[241]:=

```
SystemModelPlot[simsensdata,
  {"Pollution_Dynamics1.PPoll_Appear_Rate.Smooth3.Integrator1.y",
   "Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[5]", percentvar}]
```

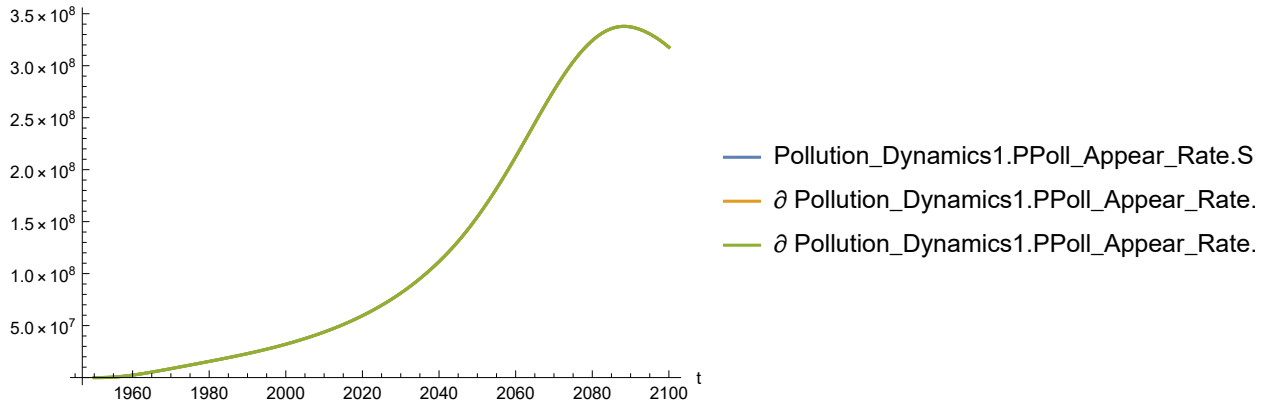
Out[241]=



In[242]:=

```
SystemModelPlot[simsensdata,
  {"Pollution_Dynamics1.PPoll_Appear_Rate.Smooth3.Integrator1.y",
   "Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[6]", percentvar}]
```

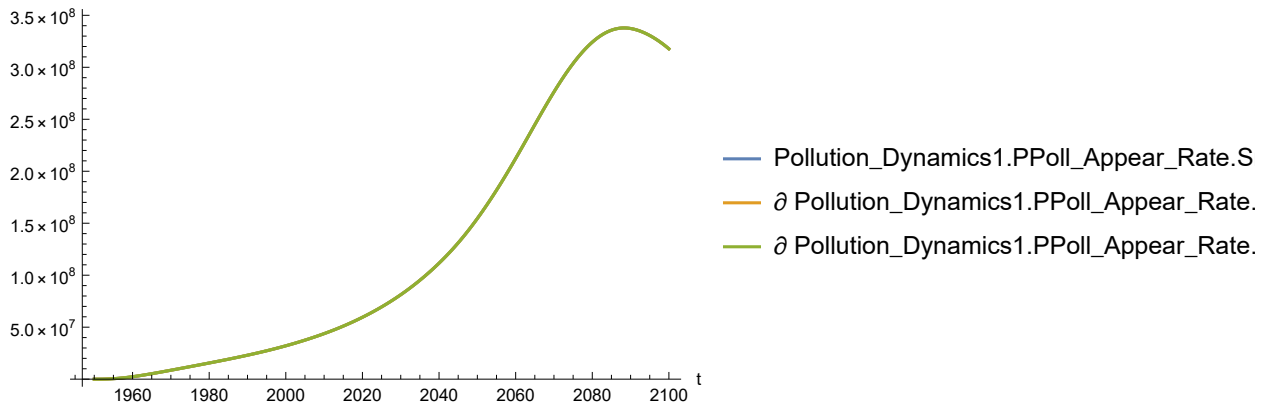
Out[242]=



In[243]:=

```
SystemModelPlot[simsensdata,
  {"Pollution_Dynamics1.PPoll_Appear_Rate.Smooth3.Integrator1.y",
   "Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[7]", percentvar}]
```

Out[243]=

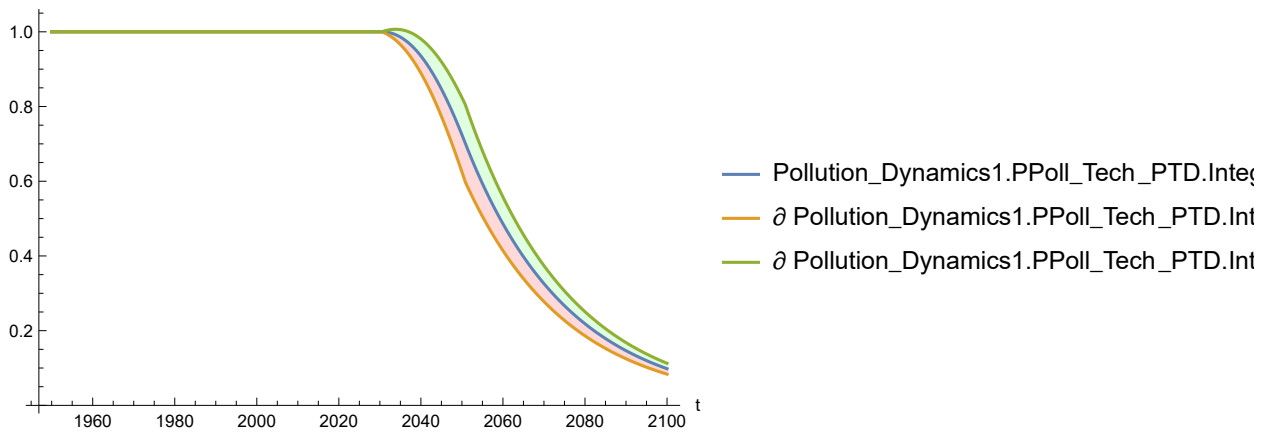


Plot the sensitivity of Pollution_Dynamics1.PPoll_Tech_PTD.Integrator1.y to Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals.

In[244]:=

```
SystemModelPlot[simsensdata, {"Pollution_Dynamics1.PPoll_Tech_PTD.Integrator1.y",
"Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[1]", percentvar}]
```

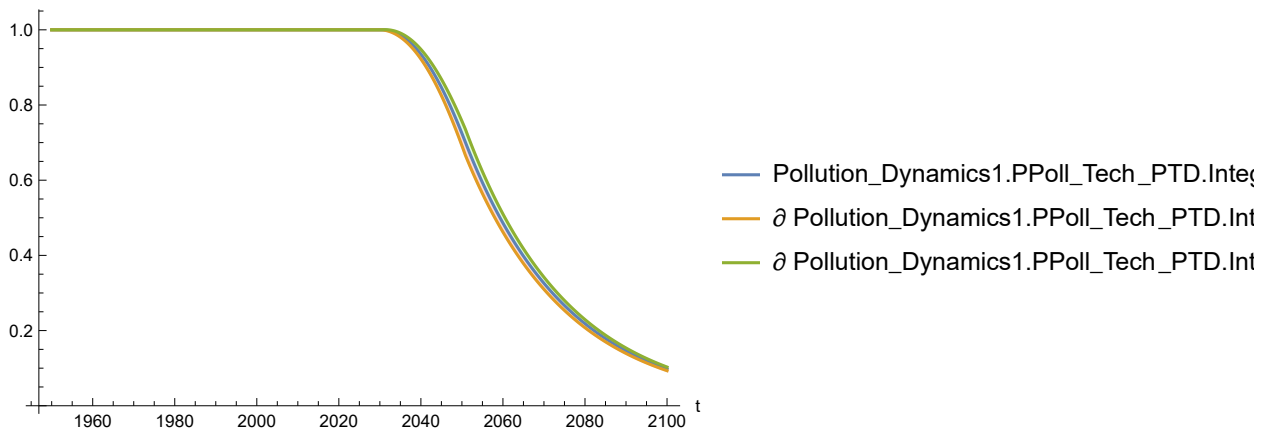
Out[244]=



In[245]:=

```
SystemModelPlot[simsensdata, {"Pollution_Dynamics1.PPoll_Tech_PTD.Integrator1.y",
"Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[2]", percentvar}]
```

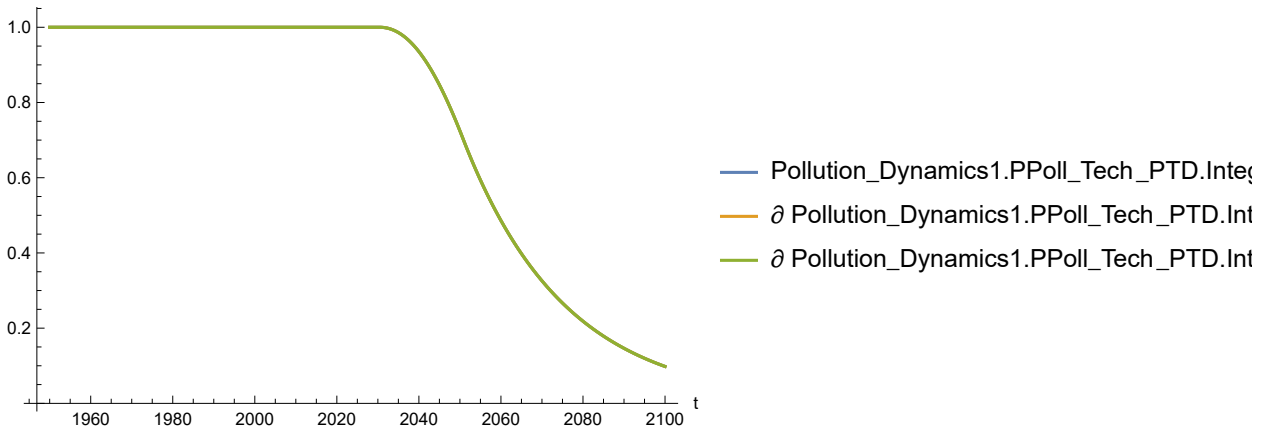
Out[245]=



In[246]:=

```
SystemModelPlot[simsensdata, {"Pollution_Dynamics1.PPoll_Tech_PTD.Integrator1.y",
"Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[3]", percentvar}]
```

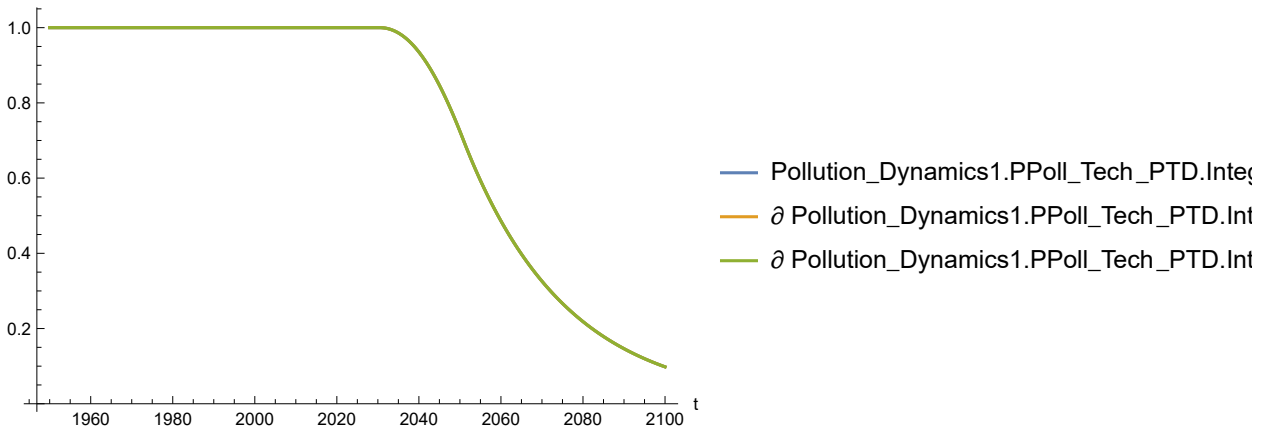
Out[246]:=



In[247]:=

```
SystemModelPlot[simsensdata, {"Pollution_Dynamics1.PPoll_Tech_PTD.Integrator1.y",
"Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[4]", percentvar}]
```

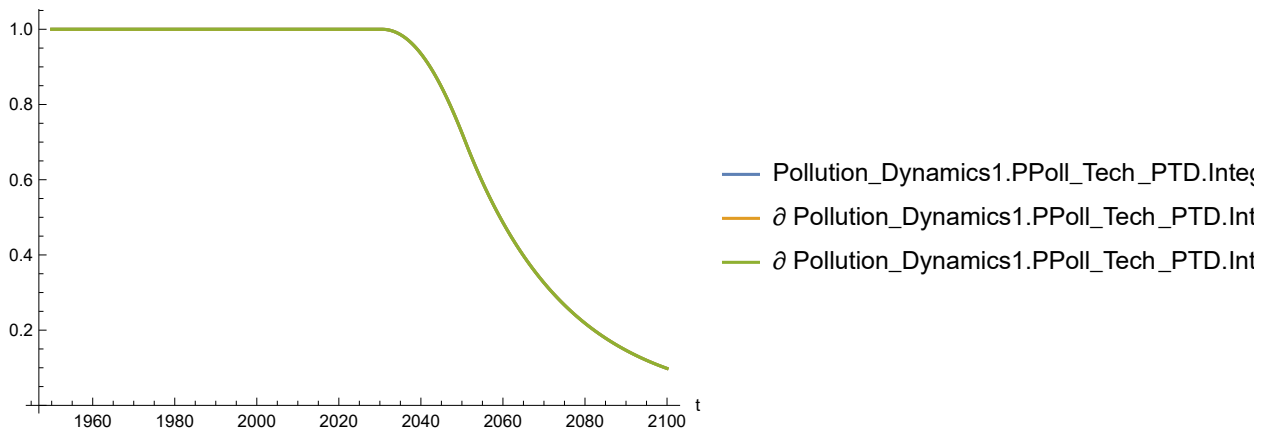
Out[247]:=



In[248]:=

```
SystemModelPlot[simsensdata, {"Pollution_Dynamics1.PPoll_Tech_PTD.Integrator1.y",
"Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[5]", percentvar}]
```

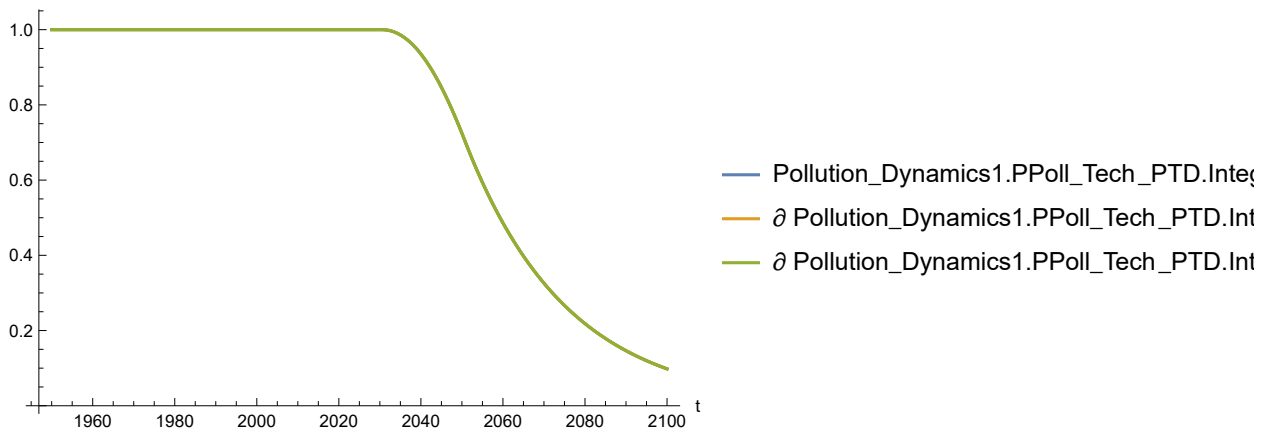
Out[248]=



In[249]:=

```
SystemModelPlot[simsensdata, {"Pollution_Dynamics1.PPoll_Tech_PTD.Integrator1.y",
"Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[6]", percentvar}]
```

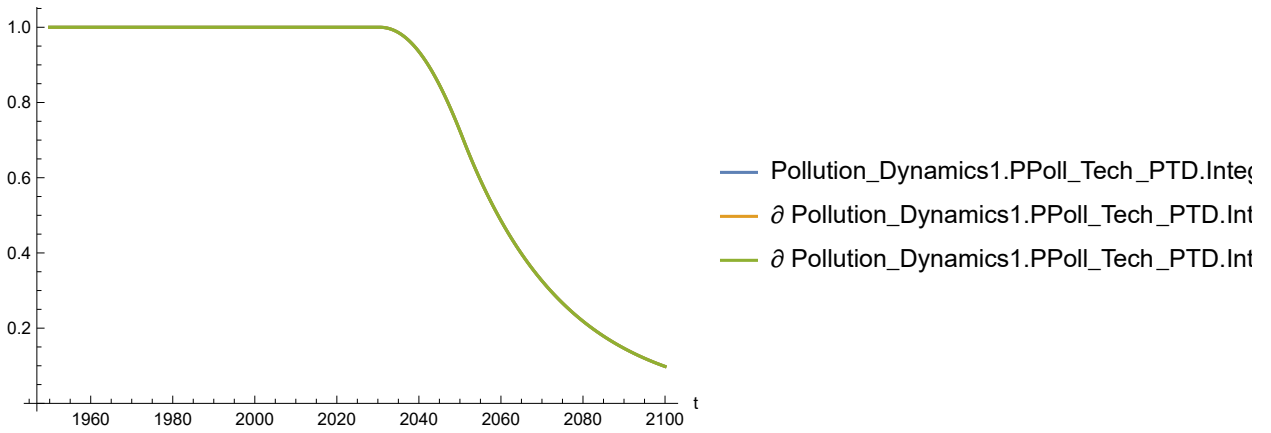
Out[249]=



In[250]:=

```
SystemModelPlot[simsensdata, {"Pollution_Dynamics1.PPoll_Tech_PTD.Integrator1.y",
"Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[7]", percentvar}]]
```

Out[250]=

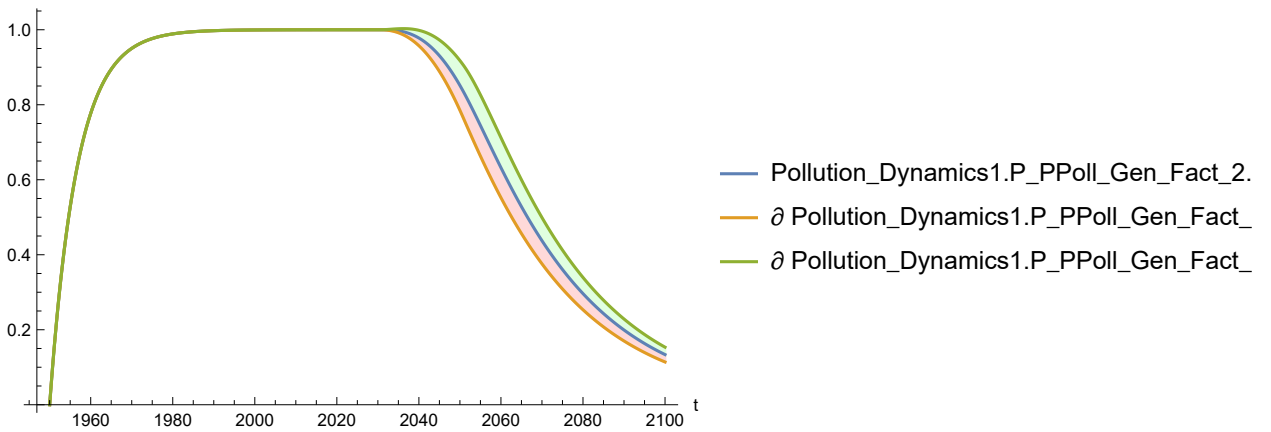


Plot the sensitivity of Pollution_Dynamics1.P_PPoll_Gen_Fact_2.Smooth1.Integrator1.y to Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals.

In[251]:=

```
SystemModelPlot[simsensdata,
{"Pollution_Dynamics1.P_PPoll_Gen_Fact_2.Smooth1.Integrator1.y",
"Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[1]", percentvar}]]
```

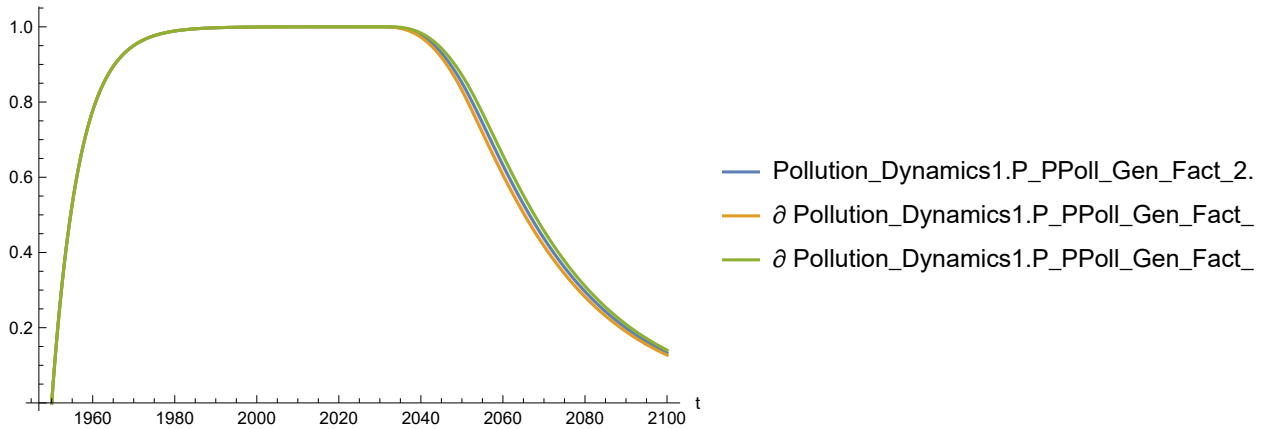
Out[251]=



In[252]:=

```
SystemModelPlot[simsensdata,
  {"Pollution_Dynamics1.P_PPoll_Gen_Fact_2.Smooth1.Integrator1.y",
   "Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[2]", percentvar}]
```

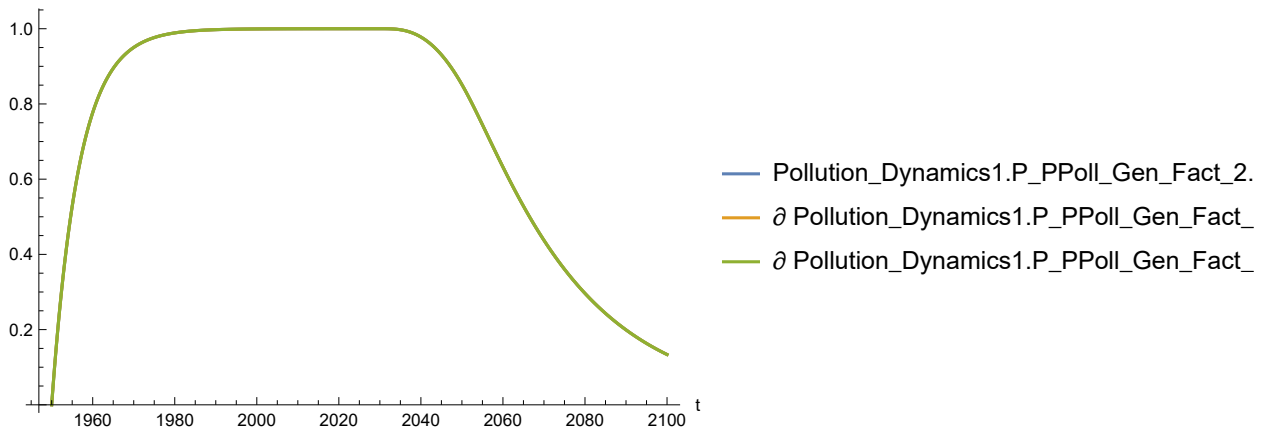
Out[252]=



In[253]:=

```
SystemModelPlot[simsensdata,
  {"Pollution_Dynamics1.P_PPoll_Gen_Fact_2.Smooth1.Integrator1.y",
   "Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[3]", percentvar}]
```

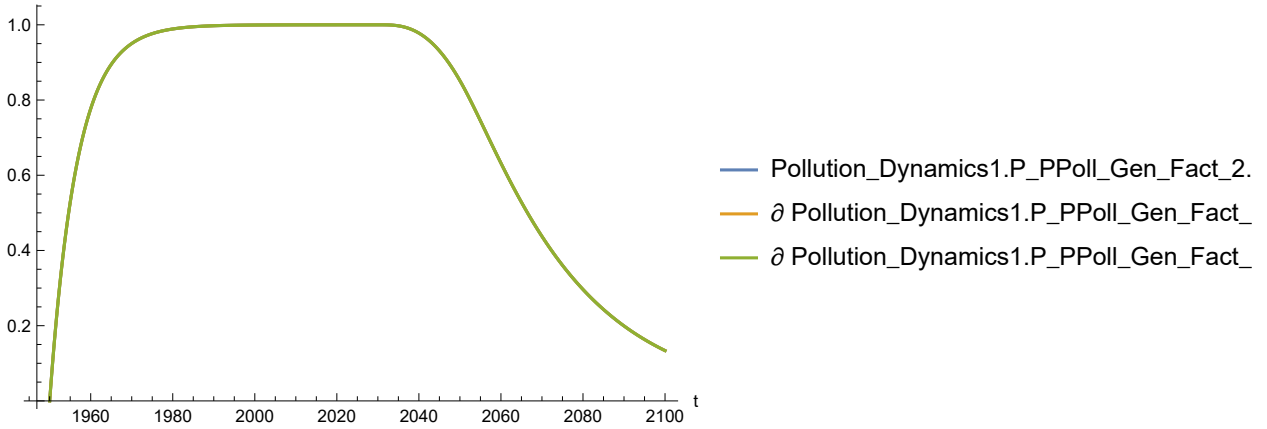
Out[253]=



In[254]:=

```
SystemModelPlot[simsensdata,
  {"Pollution_Dynamics1.P_PPoll_Gen_Fact_2.Smooth1.Integrator1.y",
   "Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[4]", percentvar}]
```

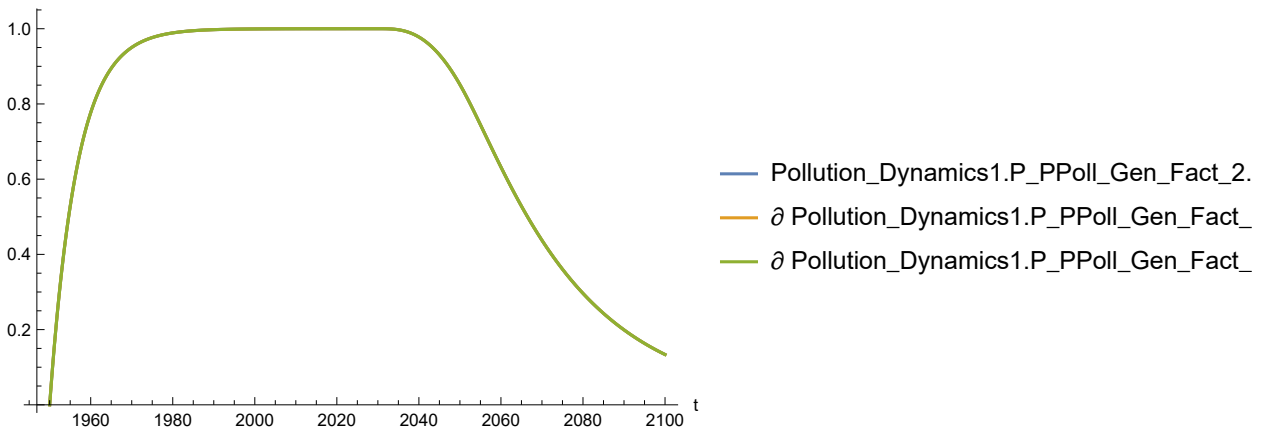
Out[254]=



In[255]:=

```
SystemModelPlot[simsensdata,
  {"Pollution_Dynamics1.P_PPoll_Gen_Fact_2.Smooth1.Integrator1.y",
   "Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[5]", percentvar}]
```

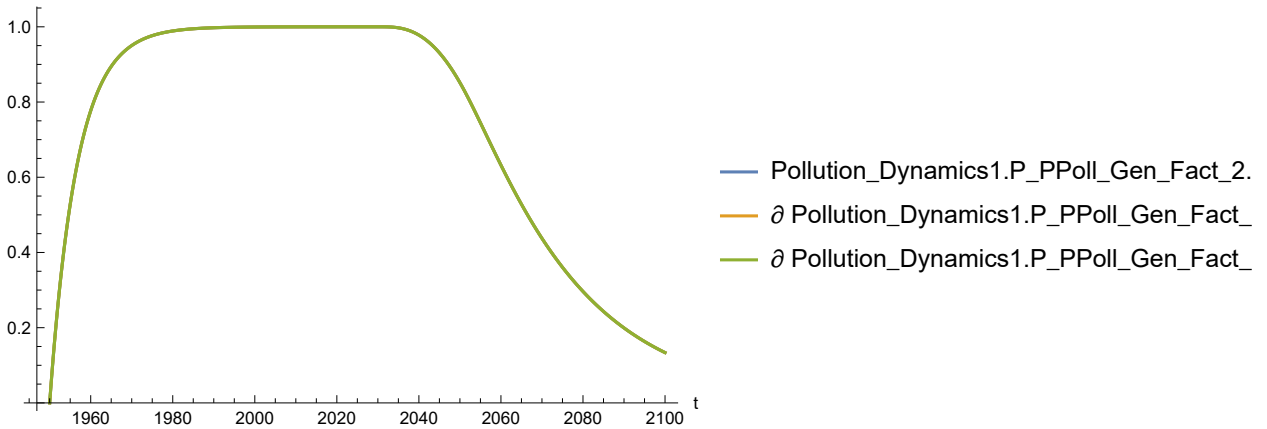
Out[255]=



In[256]:=

```
SystemModelPlot[simsensdata,
  {"Pollution_Dynamics1.P_PPoll_Gen_Fact_2.Smooth1.Integrator1.y",
   "Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[6]", percentvar}]
```

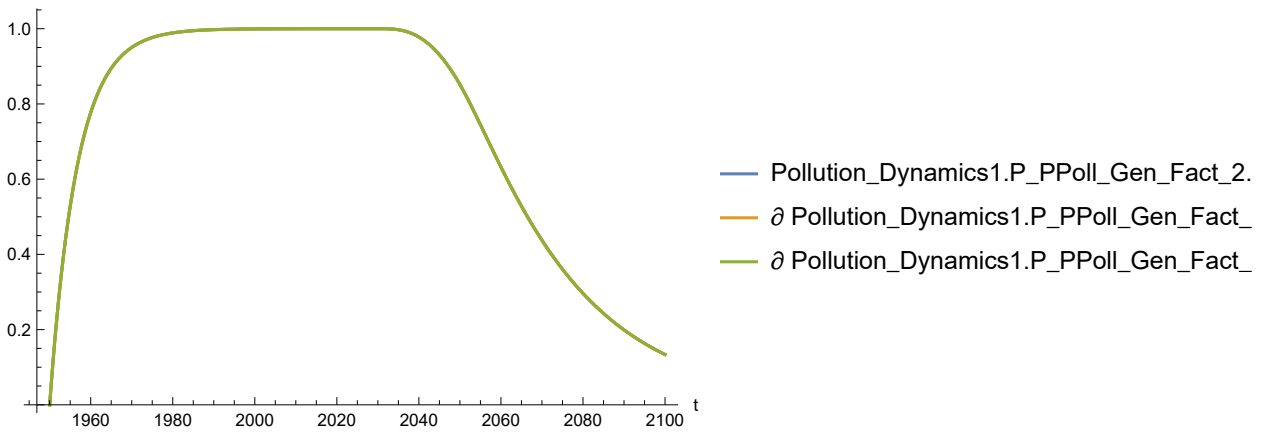
Out[256]=



In[257]:=

```
SystemModelPlot[simsensdata,
  {"Pollution_Dynamics1.P_PPoll_Gen_Fact_2.Smooth1.Integrator1.y",
   "Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[7]", percentvar}]
```

Out[257]=

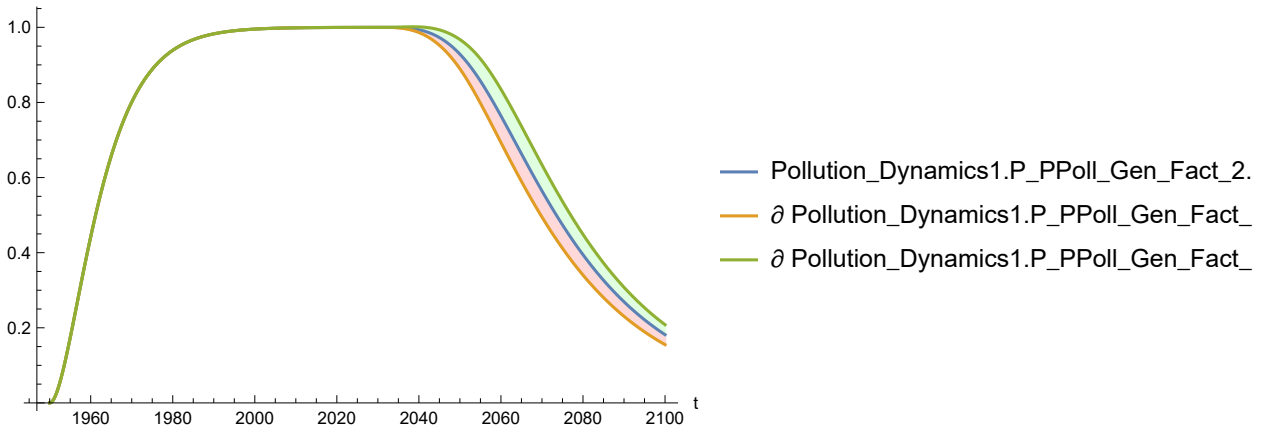


Plot the sensitivity of Pollution_Dynamics1.P_PPoll_Gen_Fact_2.Smooth2.Integrator1.y to Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals.

In[258]:=

```
SystemModelPlot[simsensdata,
  {"Pollution_Dynamics1.P_PPoll_Gen_Fact_2.Smooth2.Integrator1.y",
   "Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[1]", percentvar}]
```

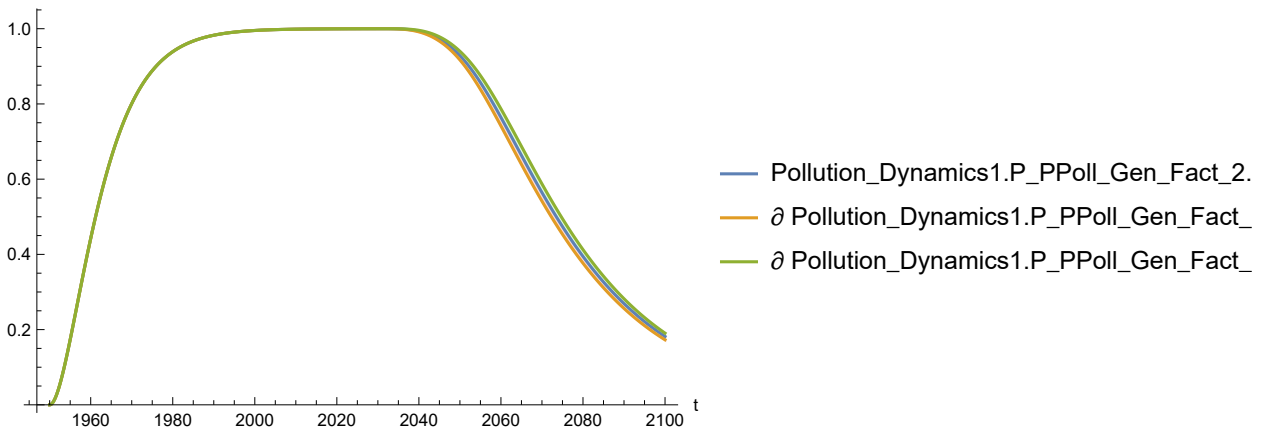
Out[258]=



In[259]:=

```
SystemModelPlot[simsensdata,
  {"Pollution_Dynamics1.P_PPoll_Gen_Fact_2.Smooth2.Integrator1.y",
   "Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[2]", percentvar}]
```

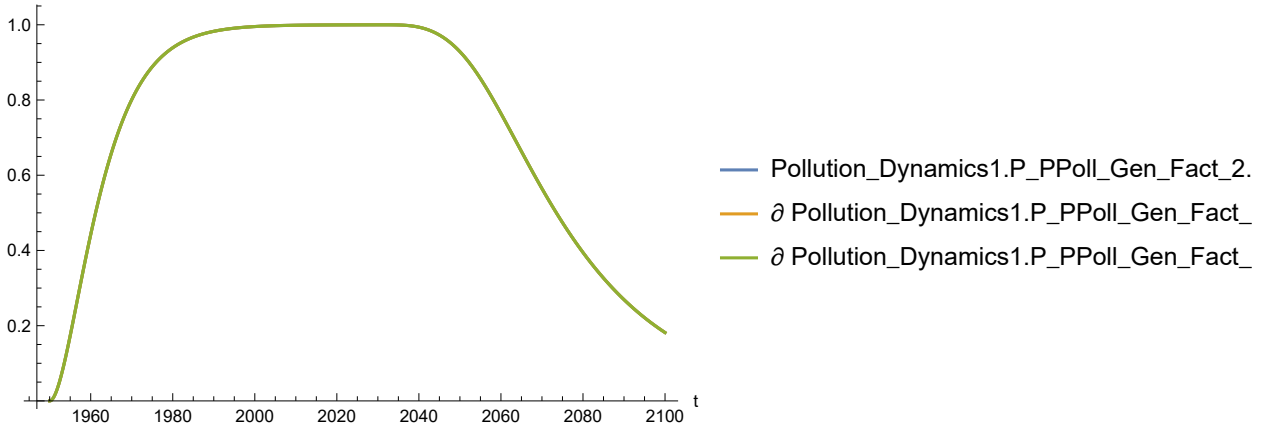
Out[259]=



In[260]:=

```
SystemModelPlot[simsensdata,
  {"Pollution_Dynamics1.P_PPoll_Gen_Fact_2.Smooth2.Integrator1.y",
   "Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[3]", percentvar}]
```

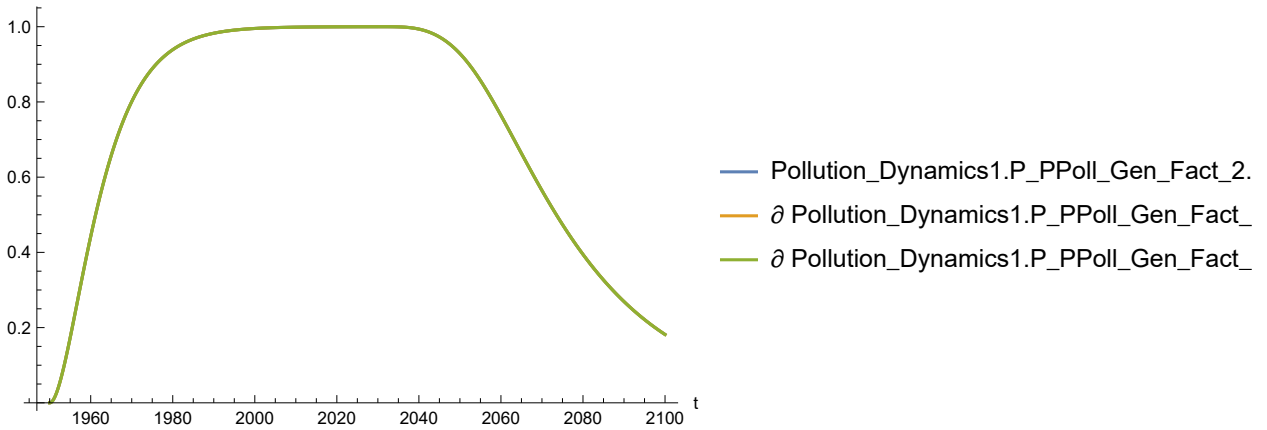
Out[260]=



In[261]:=

```
SystemModelPlot[simsensdata,
  {"Pollution_Dynamics1.P_PPoll_Gen_Fact_2.Smooth2.Integrator1.y",
   "Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[4]", percentvar}]
```

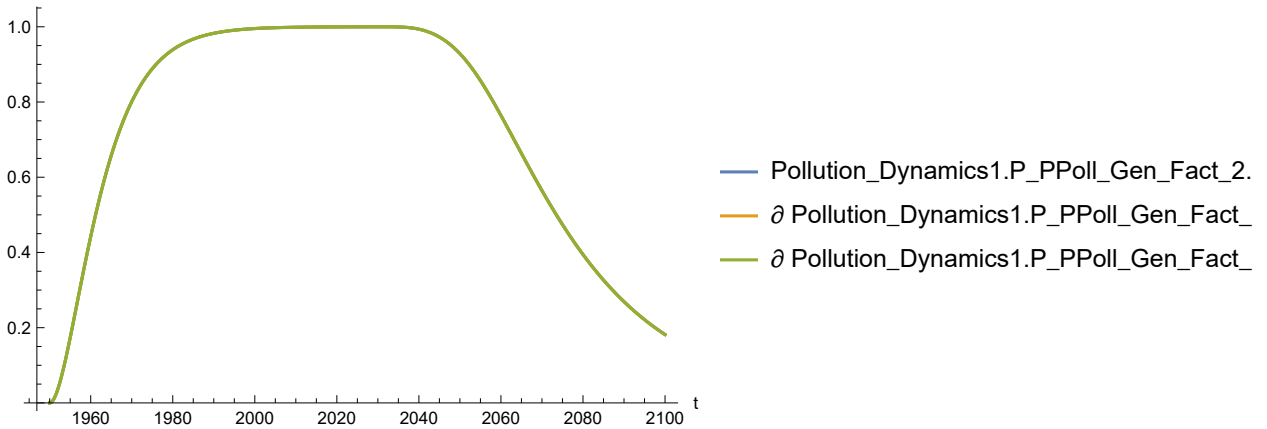
Out[261]=



In[262]:=

```
SystemModelPlot[simsensdata,
  {"Pollution_Dynamics1.P_PPoll_Gen_Fact_2.Smooth2.Integrator1.y",
   "Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[5]", percentvar}]
```

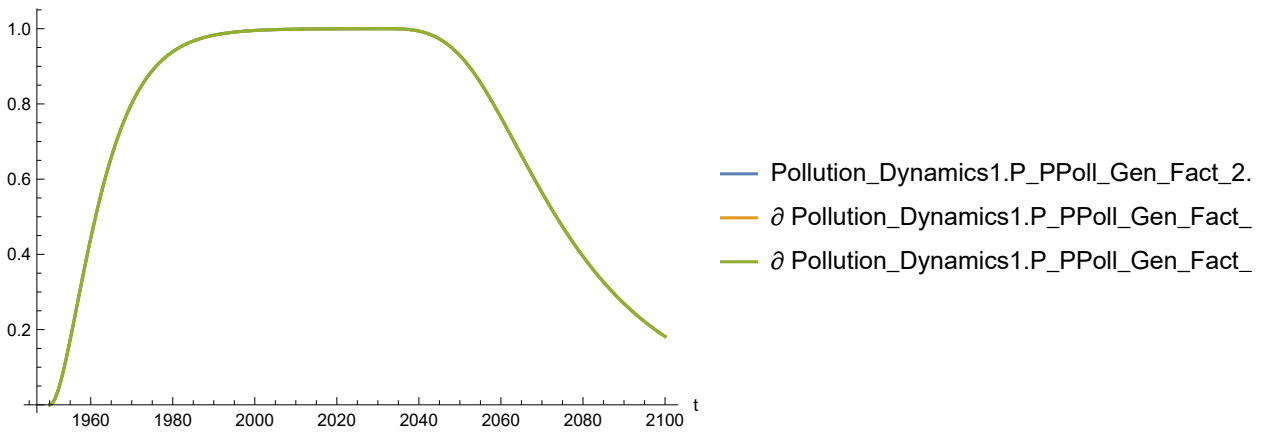
Out[262]=



In[263]:=

```
SystemModelPlot[simsensdata,
  {"Pollution_Dynamics1.P_PPoll_Gen_Fact_2.Smooth2.Integrator1.y",
   "Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[6]", percentvar}]
```

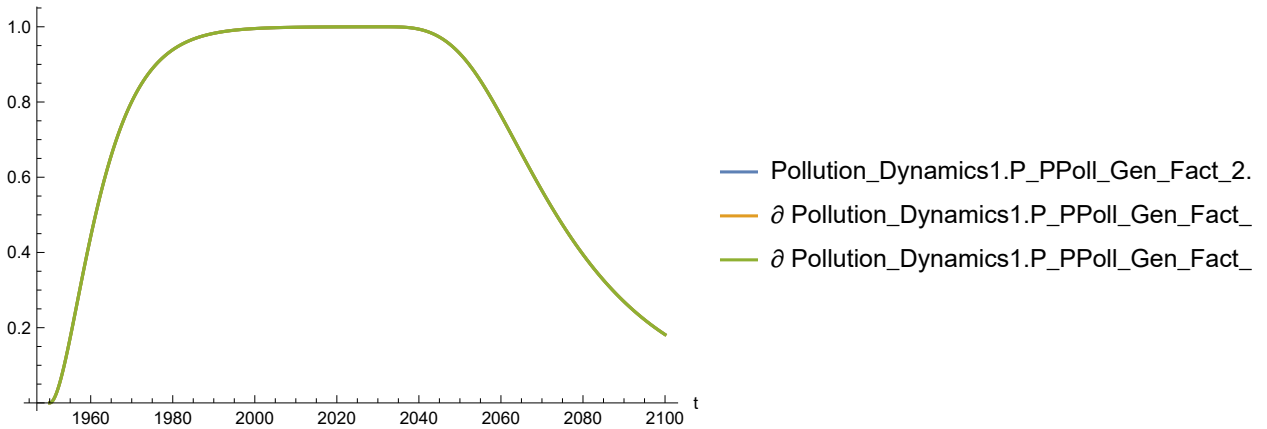
Out[263]=



In[264]:=

```
SystemModelPlot[simsensdata,
  {"Pollution_Dynamics1.P_PPoll_Gen_Fact_2.Smooth2.Integrator1.y",
   "Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[7]", percentvar}]]
```

Out[264]=

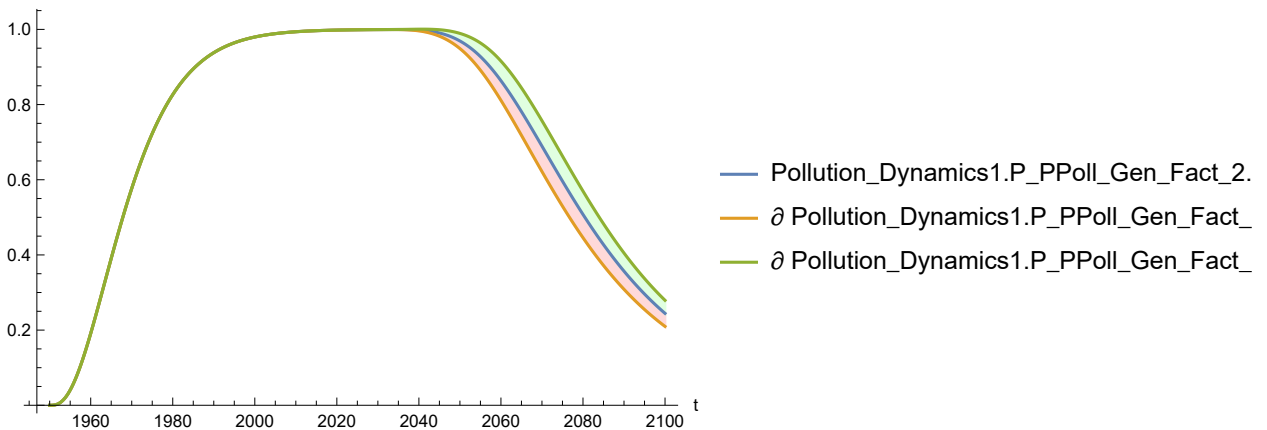


Plot the sensitivity of Pollution_Dynamics1.P_PPoll_Gen_Fact_2.Smooth3.Integrator1.y to Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals.

In[265]:=

```
SystemModelPlot[simsensdata,
  {"Pollution_Dynamics1.P_PPoll_Gen_Fact_2.Smooth3.Integrator1.y",
   "Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[1]", percentvar}]]
```

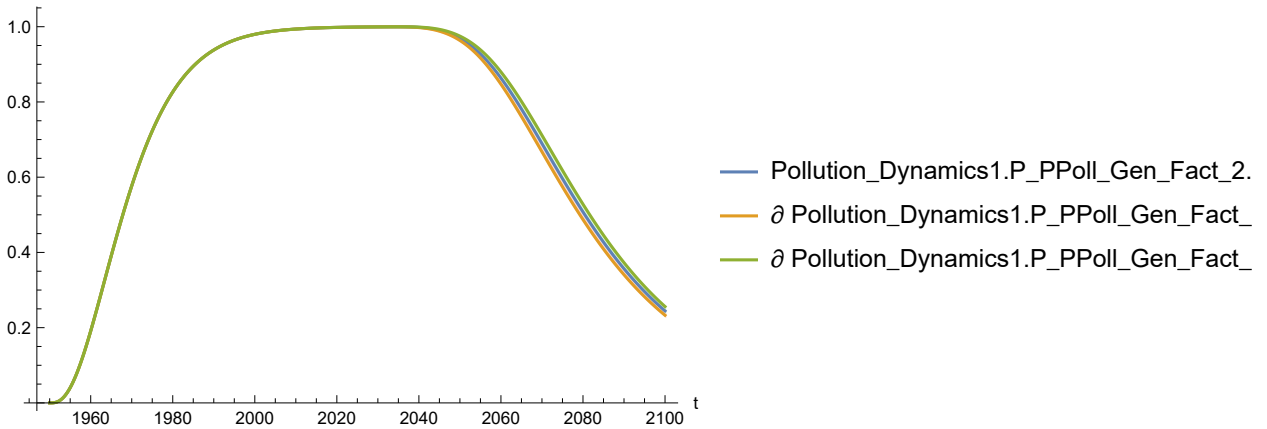
Out[265]=



In[266]:=

```
SystemModelPlot[simsensdata,
  {"Pollution_Dynamics1.P_PPoll_Gen_Fact_2.Smooth3.Integrator1.y",
   "Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[2]", percentvar}]
```

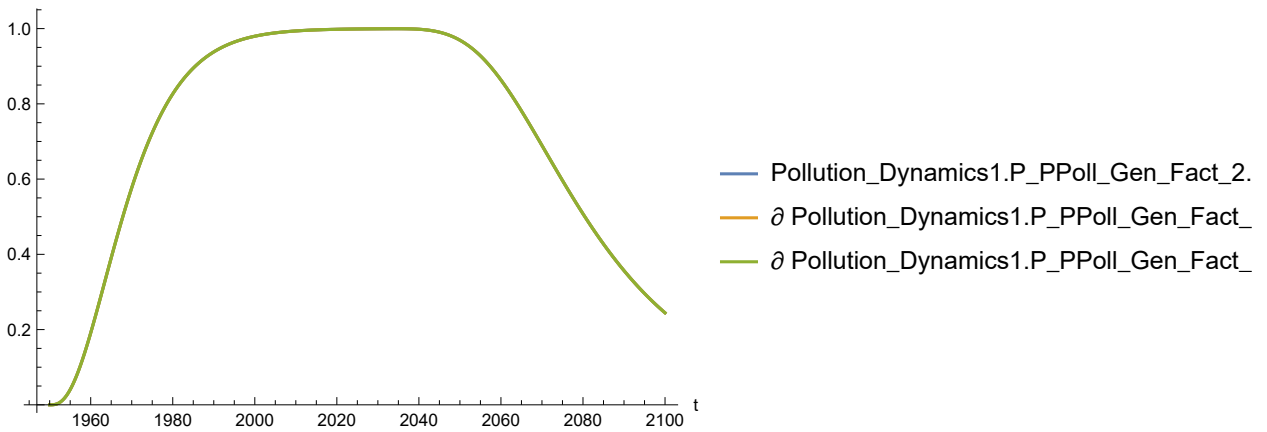
Out[266]=



In[267]:=

```
SystemModelPlot[simsensdata,
  {"Pollution_Dynamics1.P_PPoll_Gen_Fact_2.Smooth3.Integrator1.y",
   "Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[3]", percentvar}]
```

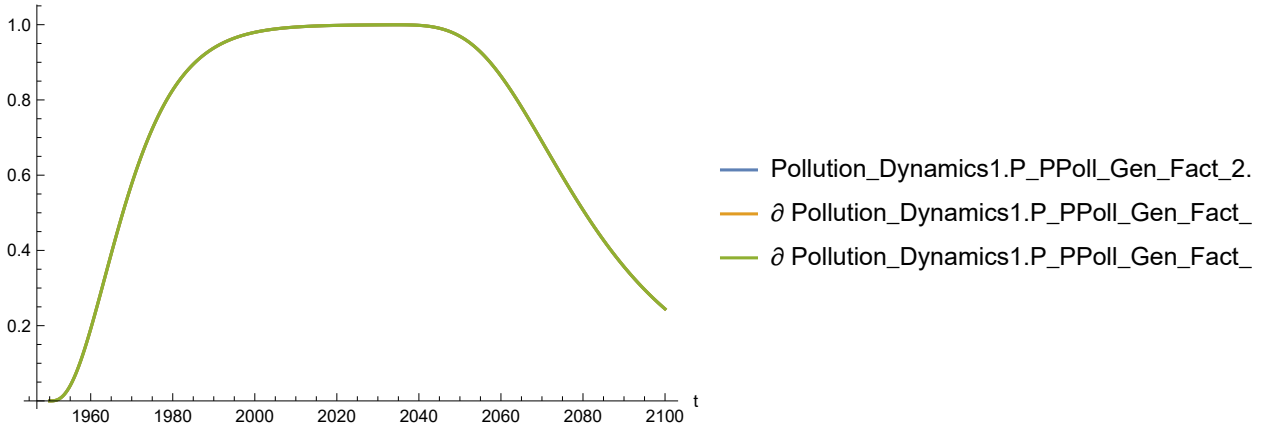
Out[267]=



In[268]:=

```
SystemModelPlot[simsensdata,
  {"Pollution_Dynamics1.P_PPoll_Gen_Fact_2.Smooth3.Integrator1.y",
   "Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[4]", percentvar}]
```

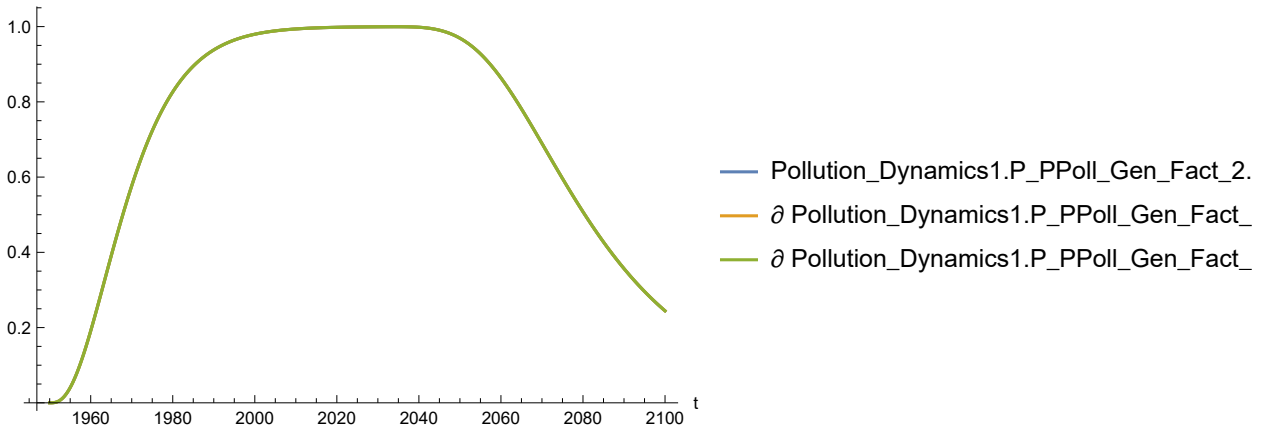
Out[268]=



In[269]:=

```
SystemModelPlot[simsensdata,
  {"Pollution_Dynamics1.P_PPoll_Gen_Fact_2.Smooth3.Integrator1.y",
   "Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[5]", percentvar}]
```

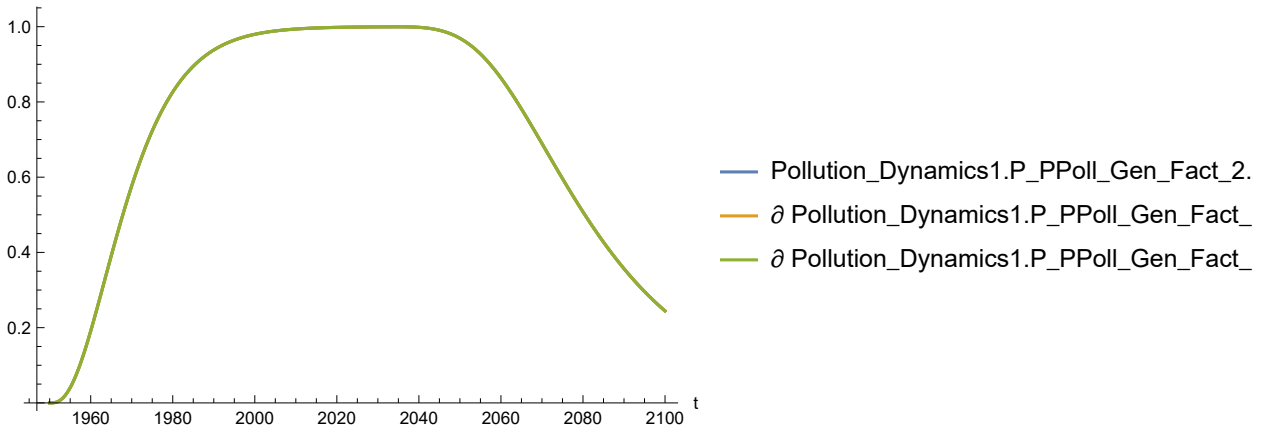
Out[269]=



In[270]:=

```
SystemModelPlot[simsensdata,
  {"Pollution_Dynamics1.P_PPoll_Gen_Fact_2.Smooth3.Integrator1.y",
   "Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[6]", percentvar}]
```

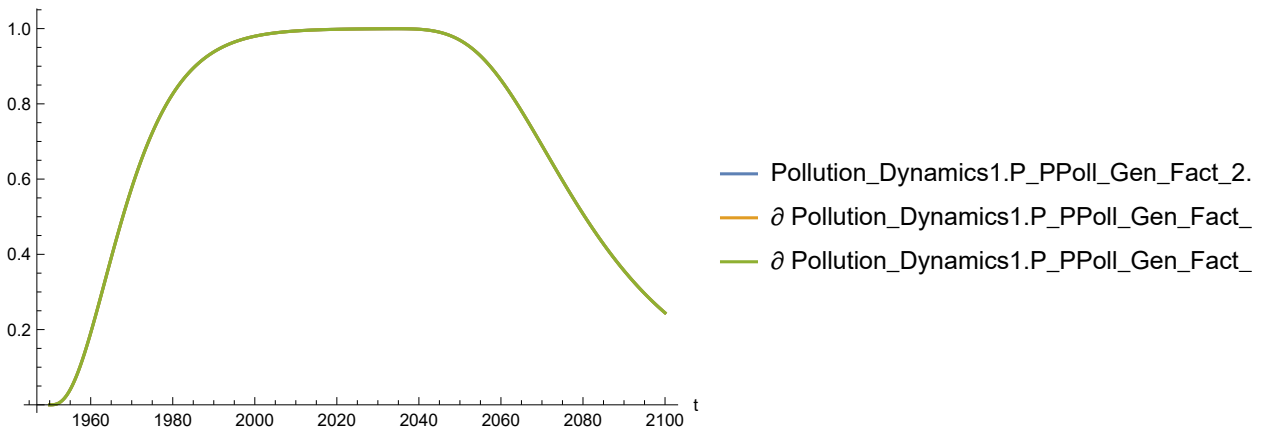
Out[270]=



In[271]:=

```
SystemModelPlot[simsensdata,
  {"Pollution_Dynamics1.P_PPoll_Gen_Fact_2.Smooth3.Integrator1.y",
   "Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[7]", percentvar}]
```

Out[271]=

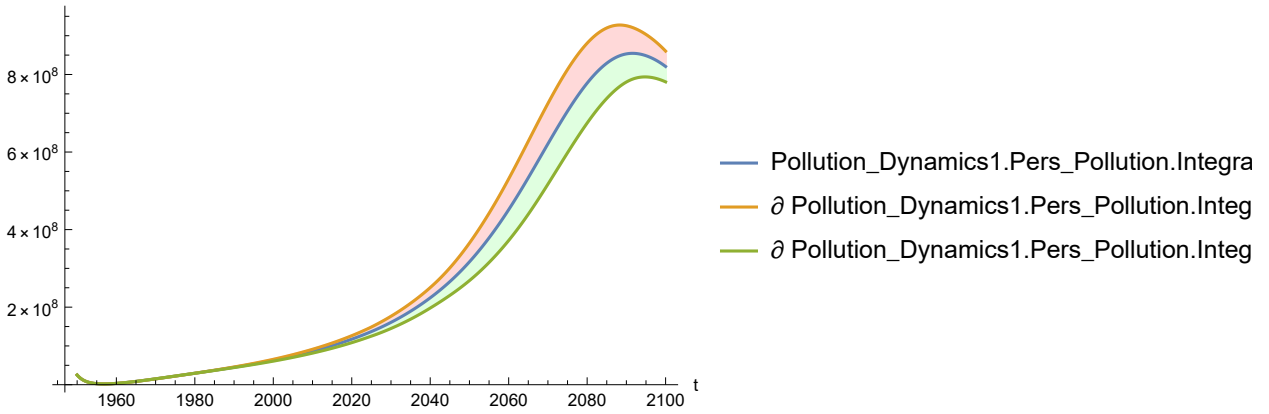


Plot the sensitivity of `Pollution_Dynamics1.Pers_Pollution.Integrator1.y` to `Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals`.

In[272]:=

```
SystemModelPlot[simsensdata, {"Pollution_Dynamics1.Pers_Pollution.Integrator1.y",
"Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[1]", percentvar}]
```

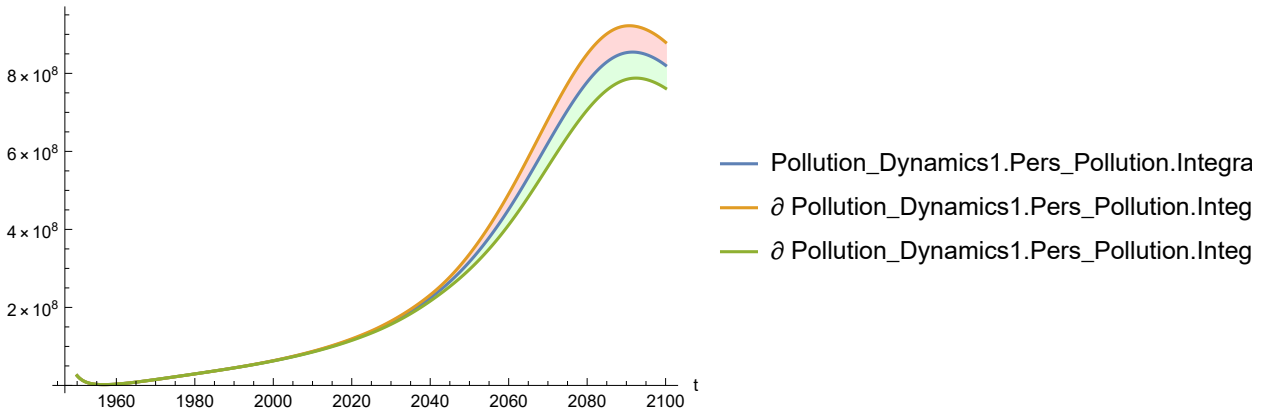
Out[272]=



In[273]:=

```
SystemModelPlot[simsensdata, {"Pollution_Dynamics1.Pers_Pollution.Integrator1.y",
"Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[2]", percentvar}]
```

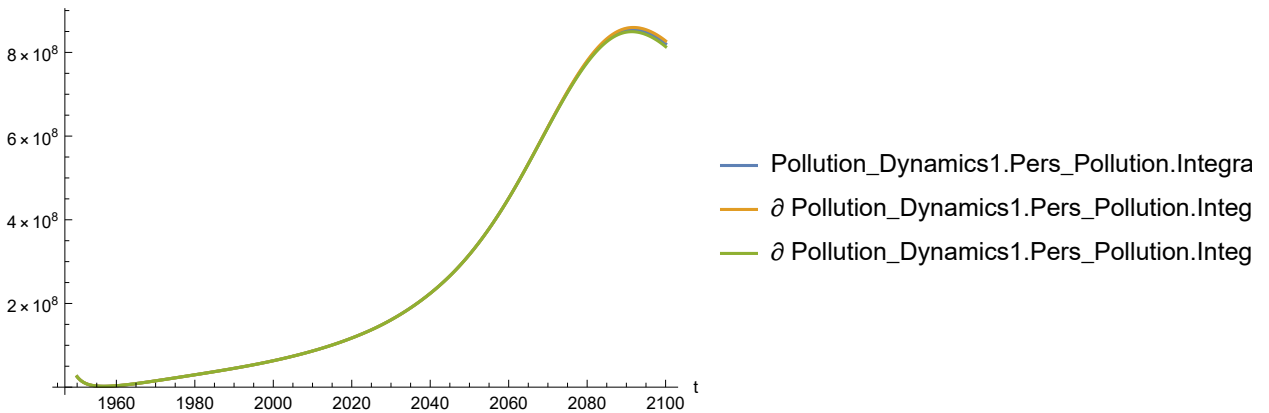
Out[273]=



In[274]:=

```
SystemModelPlot[simsensdata, {"Pollution_Dynamics1.Pers_Pollution.Integrator1.y",
"Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[3]", percentvar}]
```

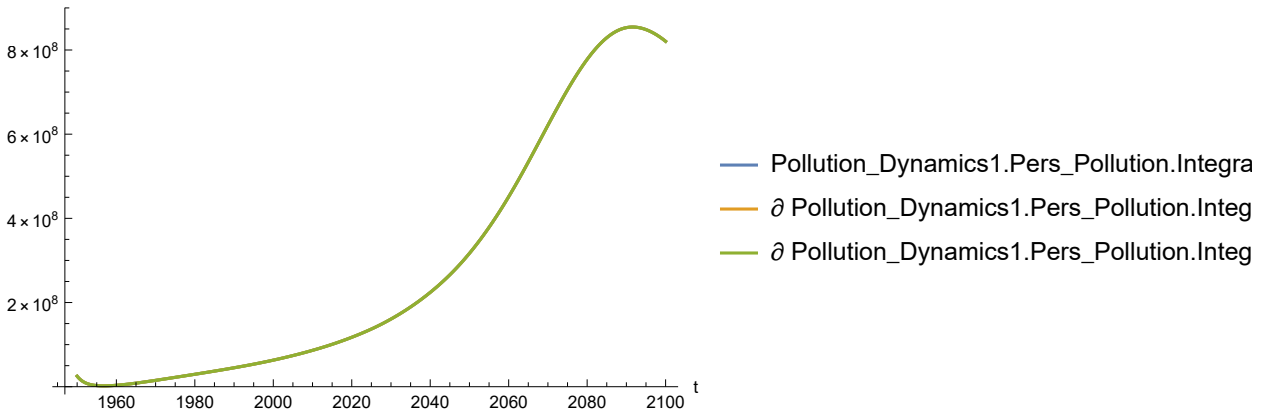
Out[274]=



In[275]:=

```
SystemModelPlot[simsensdata, {"Pollution_Dynamics1.Pers_Pollution.Integrator1.y",
"Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[4]", percentvar}]
```

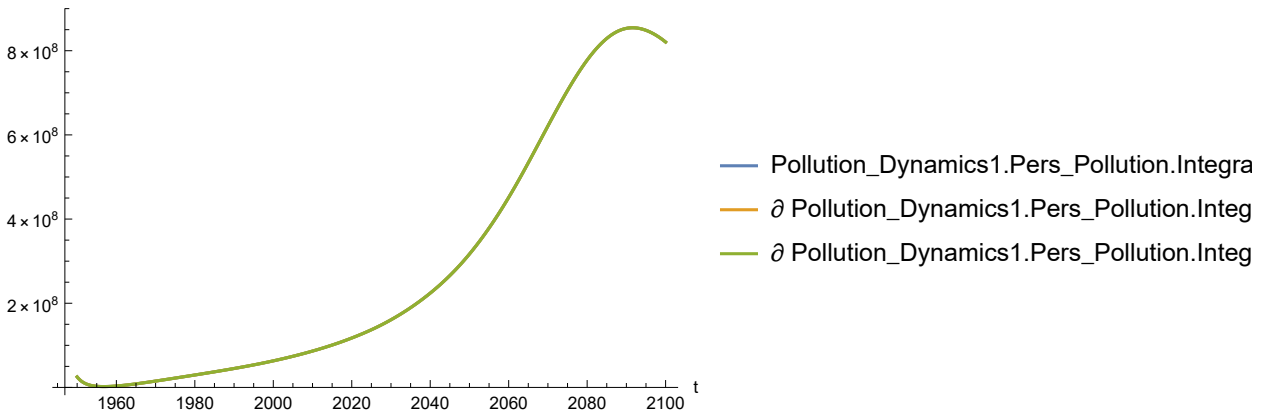
Out[275]=



In[276]:=

```
SystemModelPlot[simsensdata, {"Pollution_Dynamics1.Pers_Pollution.Integrator1.y",
"Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[5]", percentvar}]
```

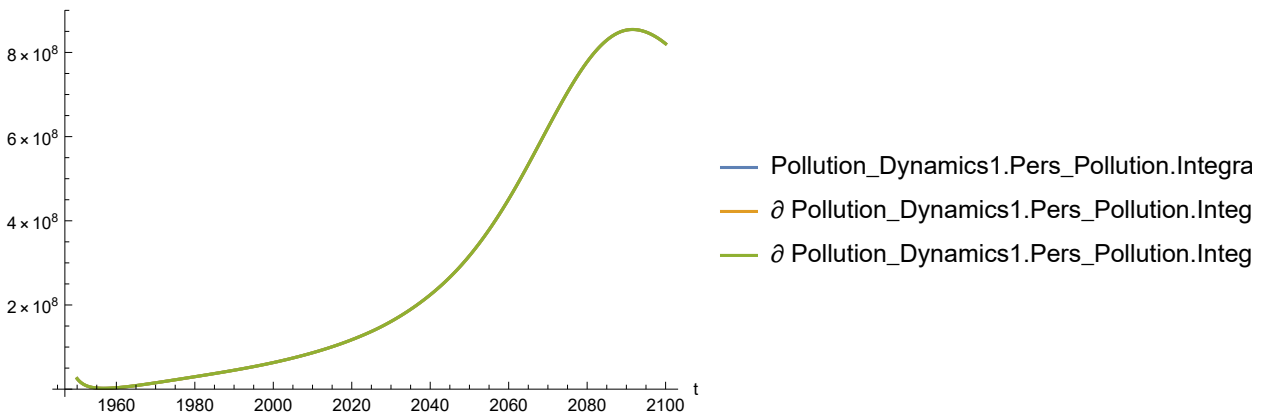
Out[276]=



In[277]:=

```
SystemModelPlot[simsensdata, {"Pollution_Dynamics1.Pers_Pollution.Integrator1.y",
"Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[6]", percentvar}]
```

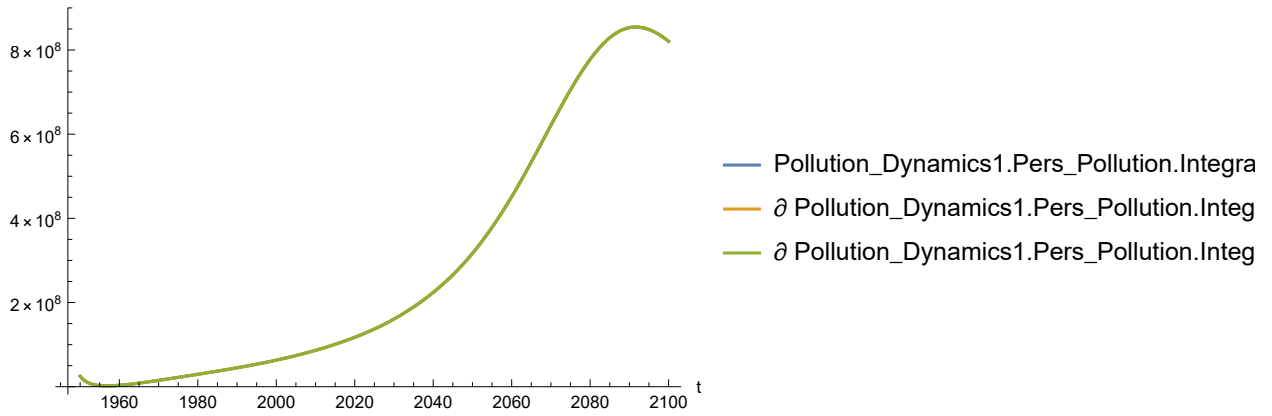
Out[277]=



In[278]:=

```
SystemModelPlot[simsensdata, {"Pollution_Dynamics1.Pers_Pollution.Integrator1.y",
"Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[7]", percentvar}]
```

Out[278]=

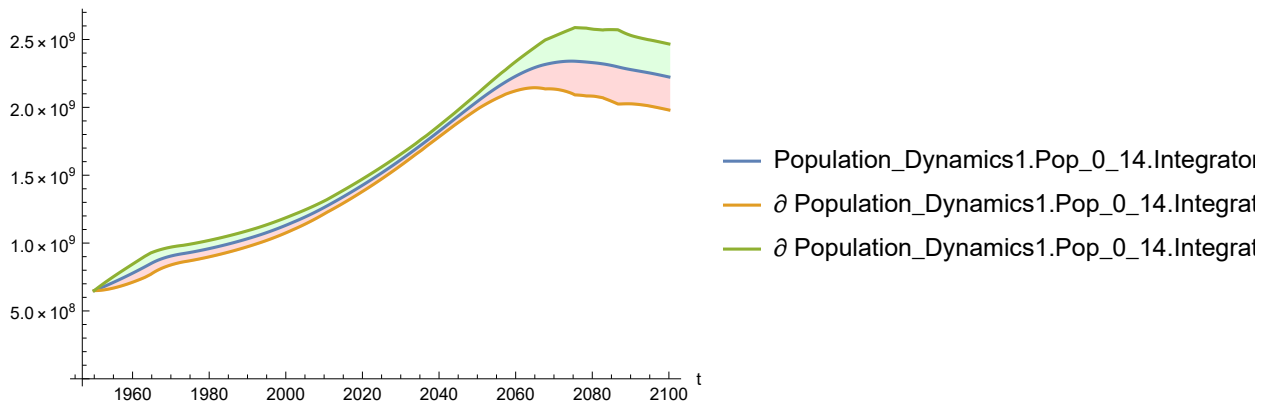


Plot sensitivity of population to **Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals**. In World3, popula- tion is divided into four subpopulations by age: 0-14 years, 15-44 years, 45-64 years, and 65 year and over.

In[279]:=

```
SystemModelPlot[simsensdata, {"Population_Dynamics1.Pop_0_14.Integrator1.y",
"Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[1]", percentvar}]
```

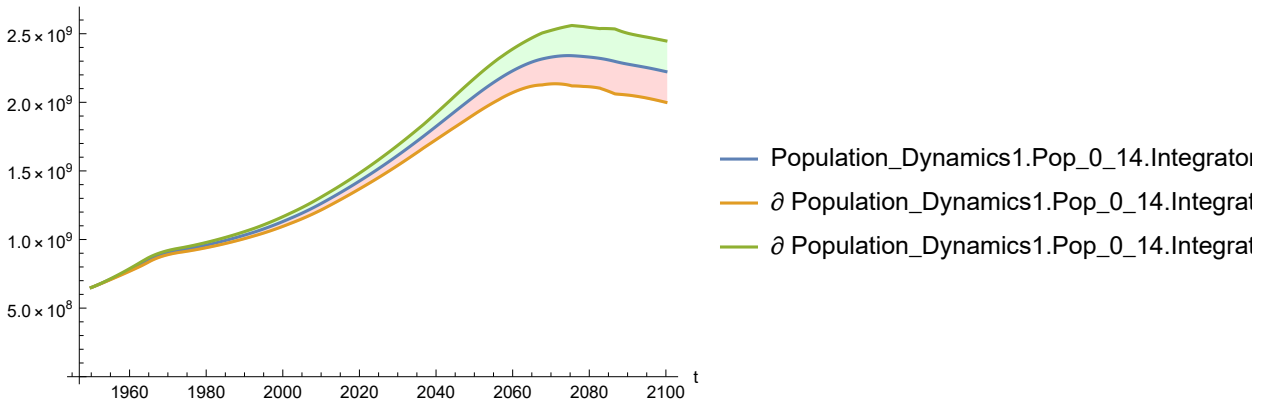
Out[279]=



In[280]:=

```
SystemModelPlot[simsensdata, {"Population_Dynamics1.Pop_0_14.Integrator1.y",
"Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[2]", percentvar}]
```

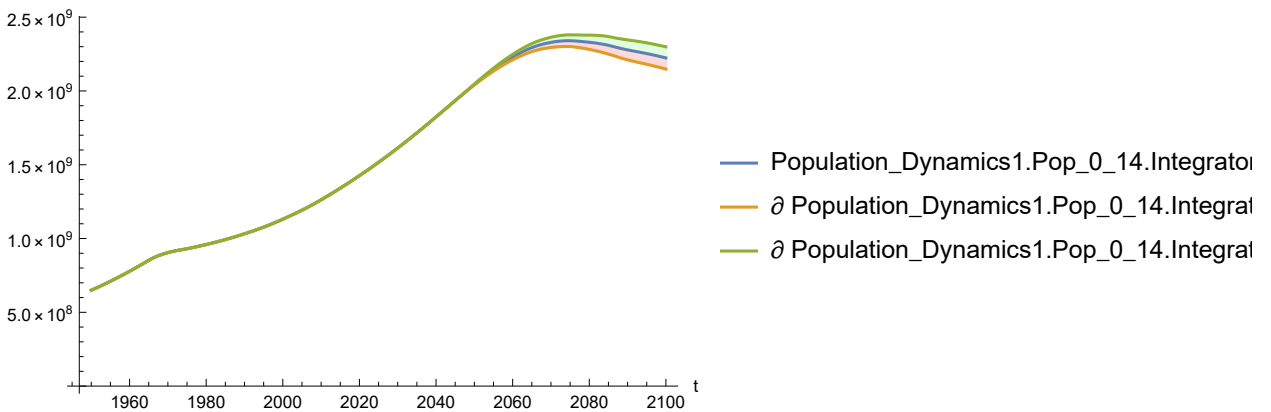
Out[280]=



In[281]:=

```
SystemModelPlot[simsensdata, {"Population_Dynamics1.Pop_0_14.Integrator1.y",
"Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[3]", percentvar}]
```

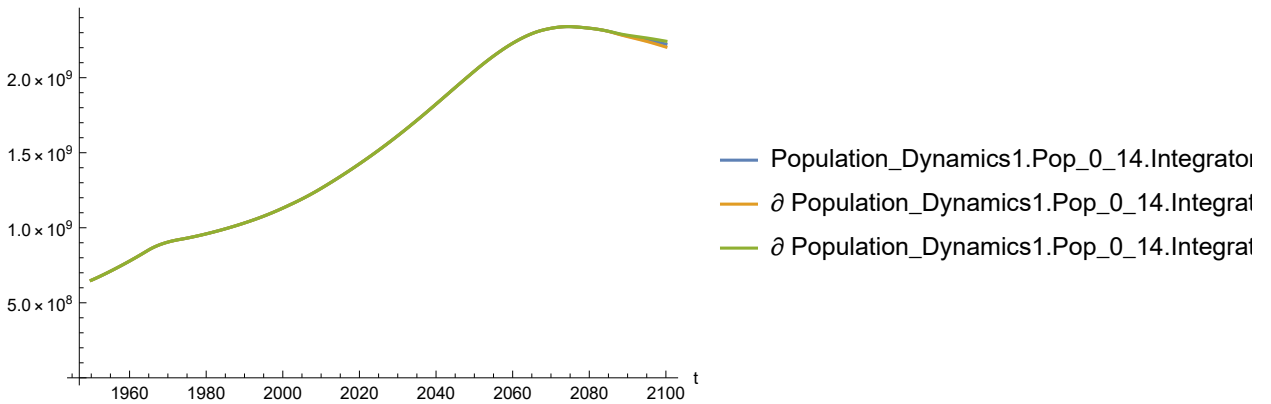
Out[281]=



In[282]:=

```
SystemModelPlot[simsensdata, {"Population_Dynamics1.Pop_0_14.Integrator1.y",
"Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[4]", percentvar}]
```

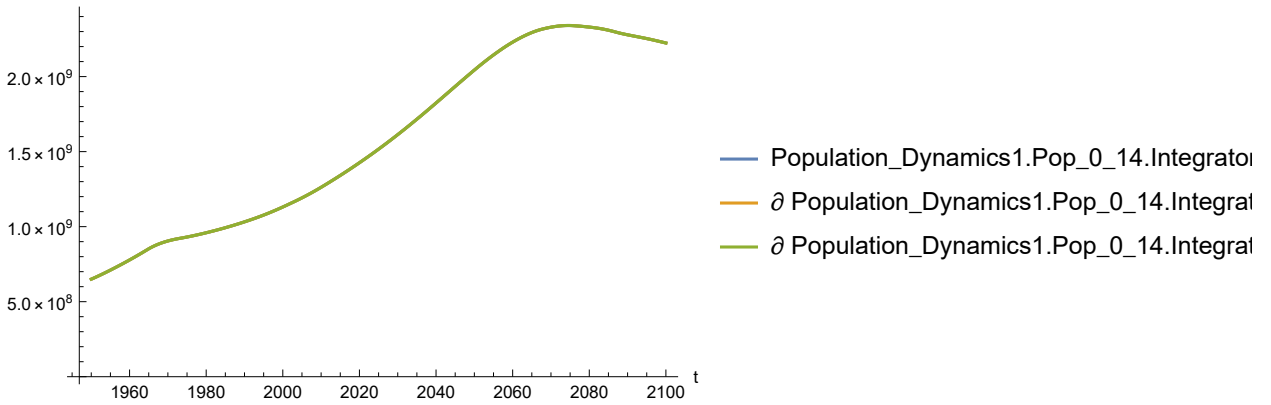
Out[282]=



In[283]:=

```
SystemModelPlot[simsensdata, {"Population_Dynamics1.Pop_0_14.Integrator1.y",
"Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[5]", percentvar}]
```

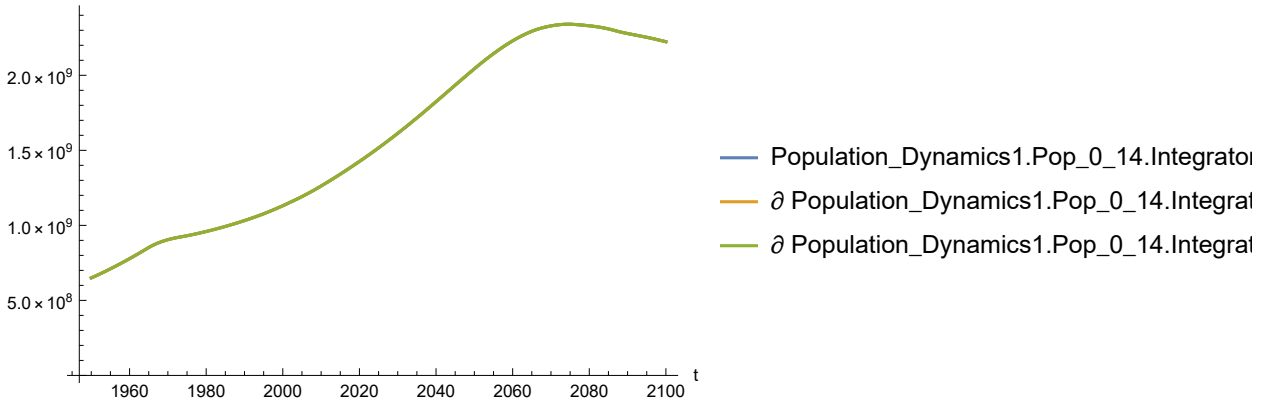
Out[283]=



In[284]:=

```
SystemModelPlot[simsensdata, {"Population_Dynamics1.Pop_0_14.Integrator1.y",
"Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[6]", percentvar}]
```

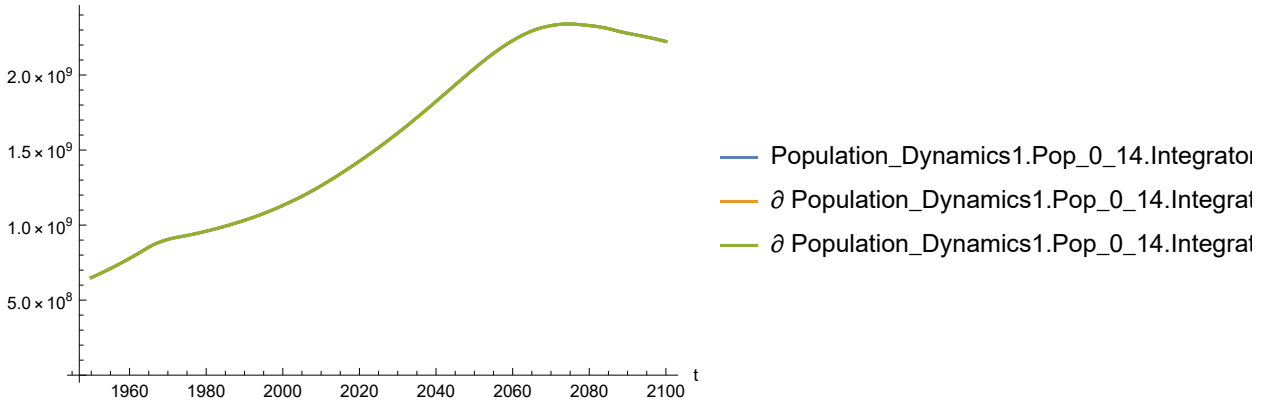
Out[284]=



In[285]:=

```
SystemModelPlot[simsensdata, {"Population_Dynamics1.Pop_0_14.Integrator1.y",
"Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[7]", percentvar}]
```

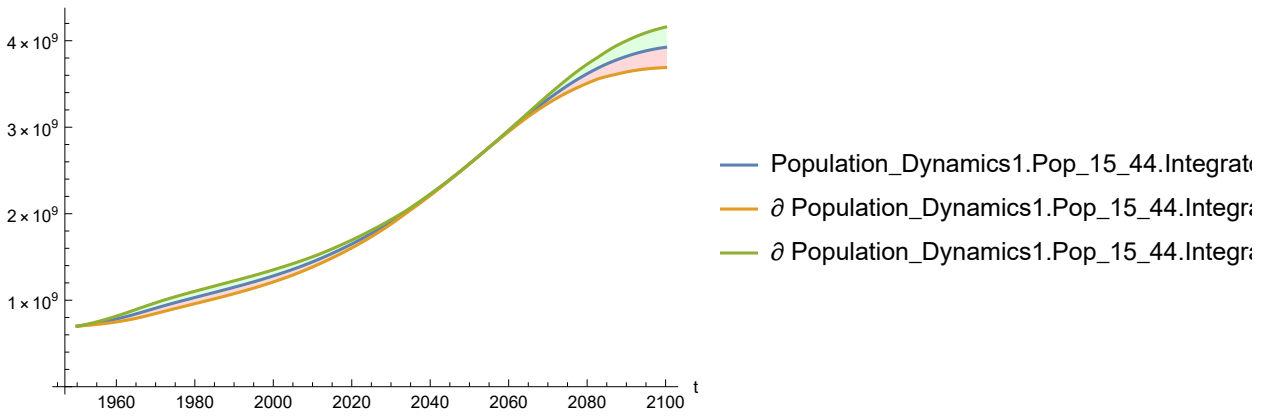
Out[285]=



In[286]:=

```
SystemModelPlot[simsensdata, {"Population_Dynamics1.Pop_15_44.Integrator1.y",
"Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[1]", percentvar}]
```

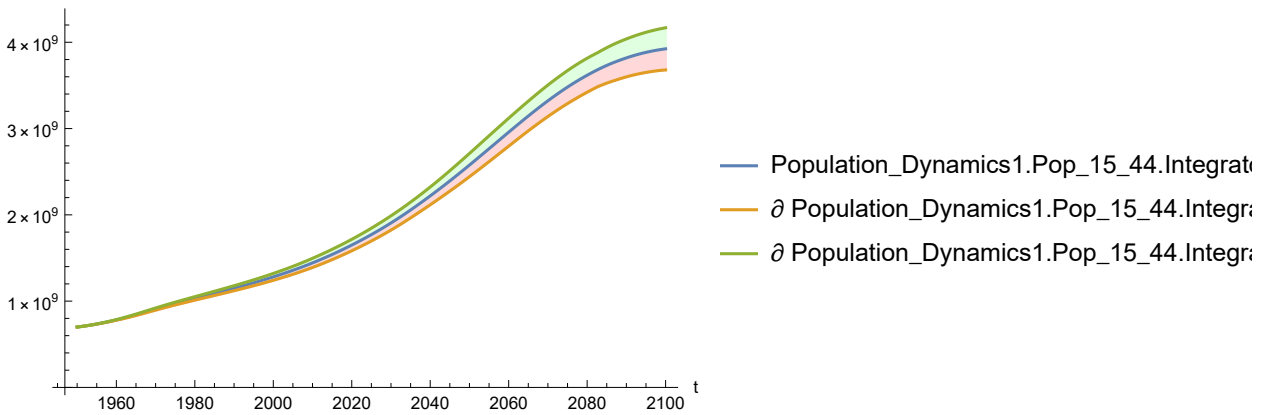
Out[286]=



In[287]:=

```
SystemModelPlot[simsensdata, {"Population_Dynamics1.Pop_15_44.Integrator1.y",
"Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[2]", percentvar}]
```

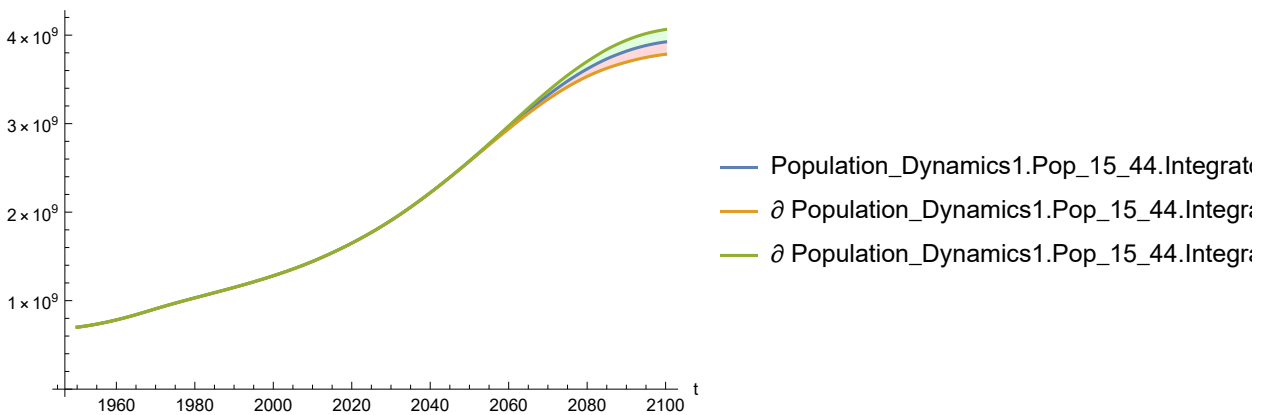
Out[287]=



In[288]:=

```
SystemModelPlot[simsensdata, {"Population_Dynamics1.Pop_15_44.Integrator1.y",
"Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[3]", percentvar}]
```

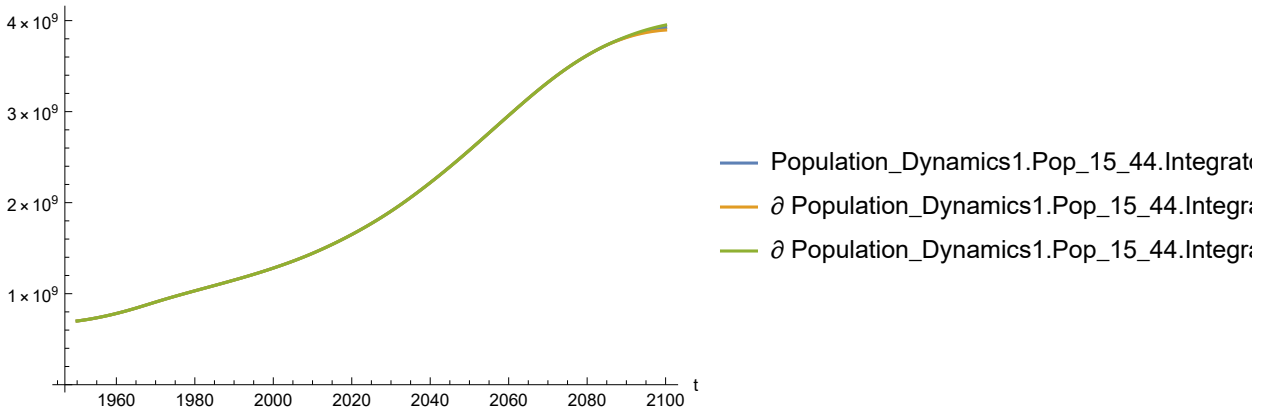
Out[288]=



In[289]:=

```
SystemModelPlot[simsensdata, {"Population_Dynamics1.Pop_15_44.Integrator1.y",
"Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[4]", percentvar}]
```

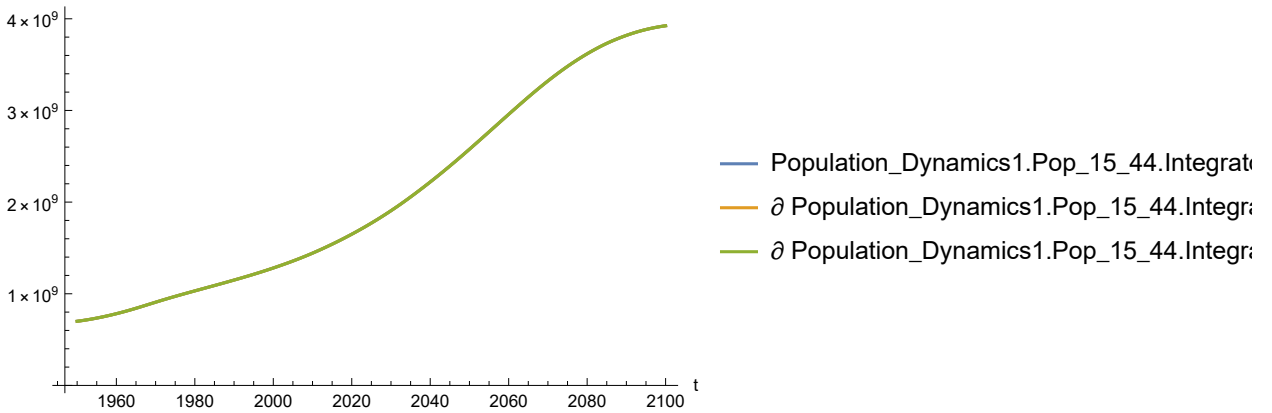
Out[289]=



In[290]:=

```
SystemModelPlot[simsensdata, {"Population_Dynamics1.Pop_15_44.Integrator1.y",
"Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[5]", percentvar}]
```

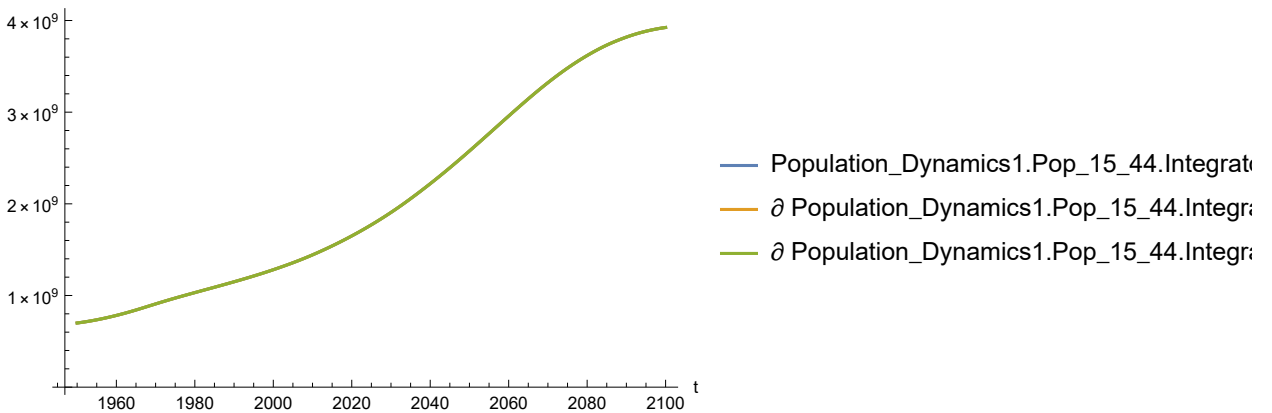
Out[290]=



In[291]:=

```
SystemModelPlot[simsensdata, {"Population_Dynamics1.Pop_15_44.Integrator1.y",
"Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[6]", percentvar}]
```

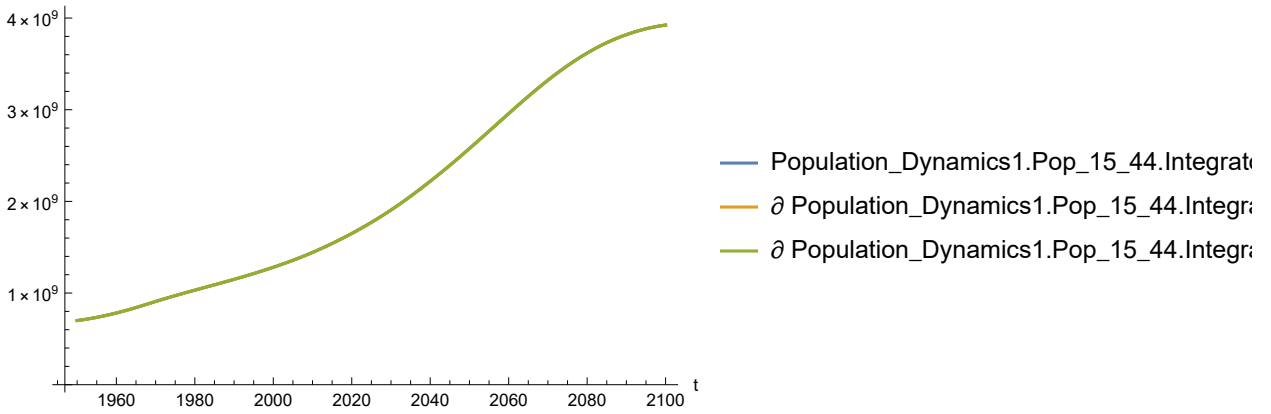
Out[291]=



In[292]:=

```
SystemModelPlot[simsensdata, {"Population_Dynamics1.Pop_15_44.Integrator1.y",
"Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[7]", percentvar}]
```

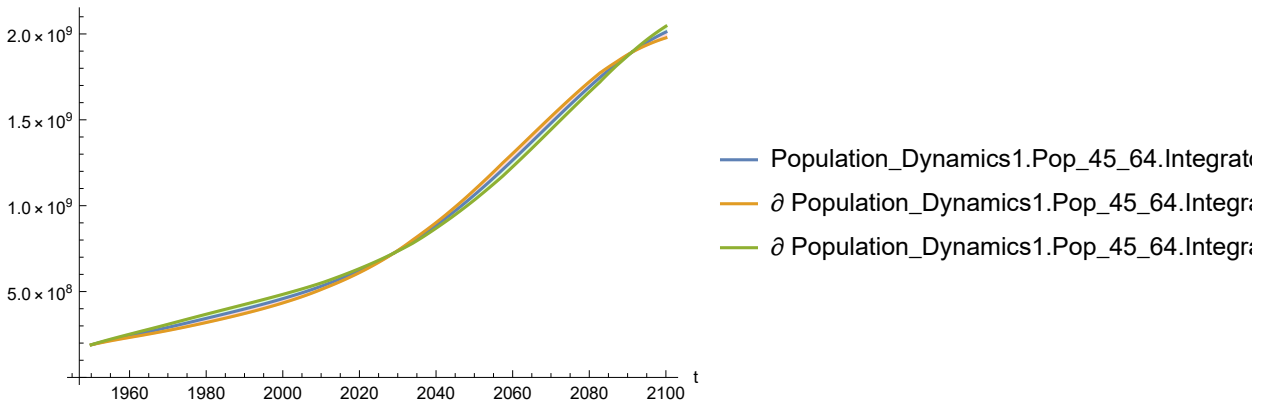
Out[292]=



In[293]:=

```
SystemModelPlot[simsensdata, {"Population_Dynamics1.Pop_45_64.Integrator1.y",
"Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[1]", percentvar}]
```

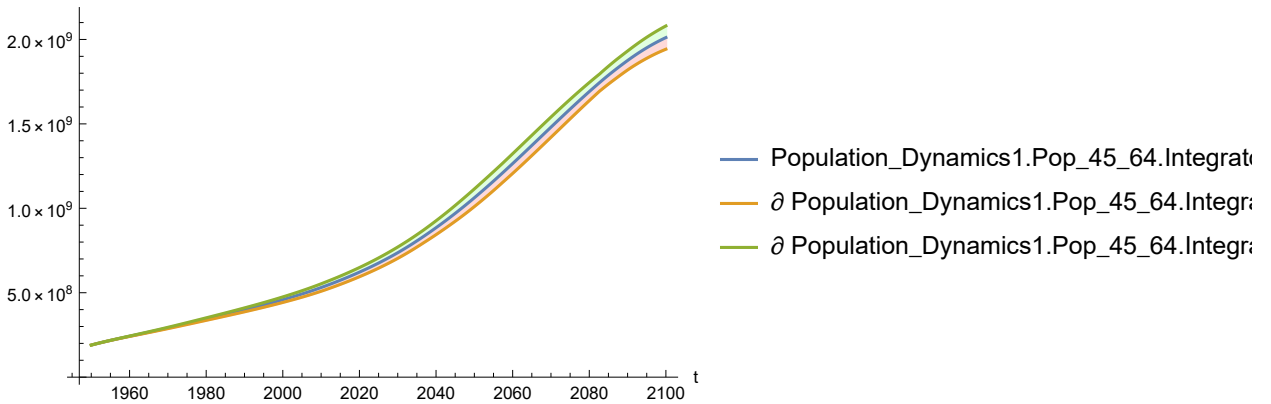
Out[293]=



In[294]:=

```
SystemModelPlot[simsensdata, {"Population_Dynamics1.Pop_45_64.Integrator1.y",
"Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[2]", percentvar}]
```

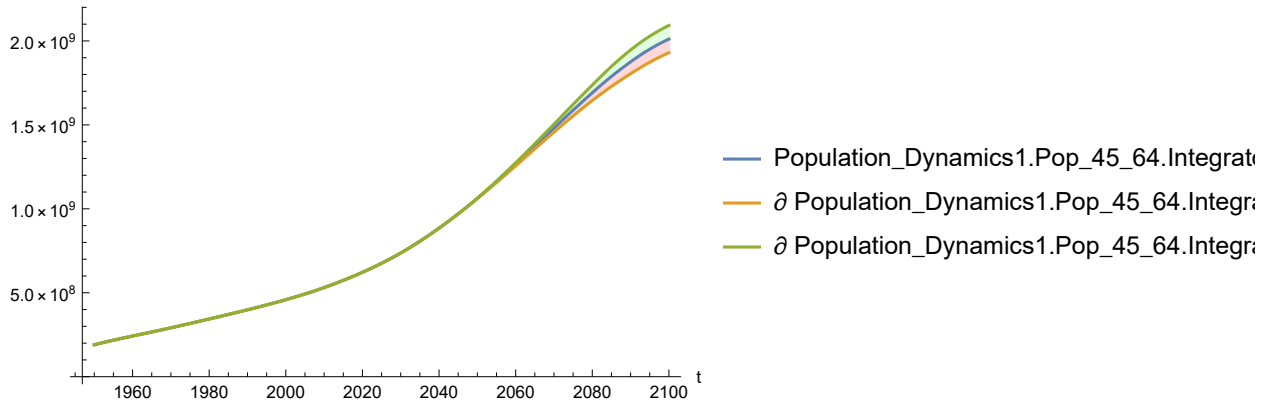
Out[294]=



In[295]:=

```
SystemModelPlot[simsensdata, {"Population_Dynamics1.Pop_45_64.Integrator1.y",
"Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[3]", percentvar}]
```

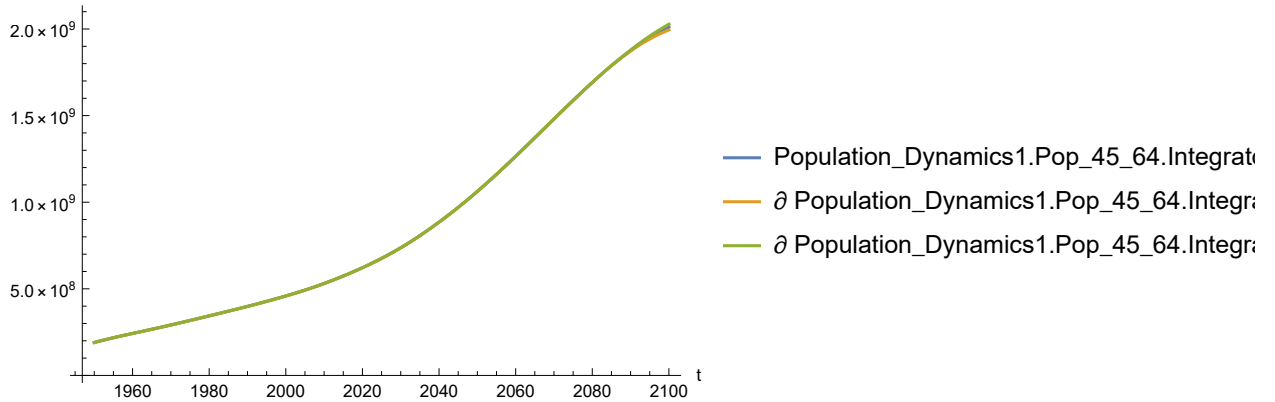
Out[295]=



In[296]:=

```
SystemModelPlot[simsensdata, {"Population_Dynamics1.Pop_45_64.Integrator1.y",
"Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[4]", percentvar}]
```

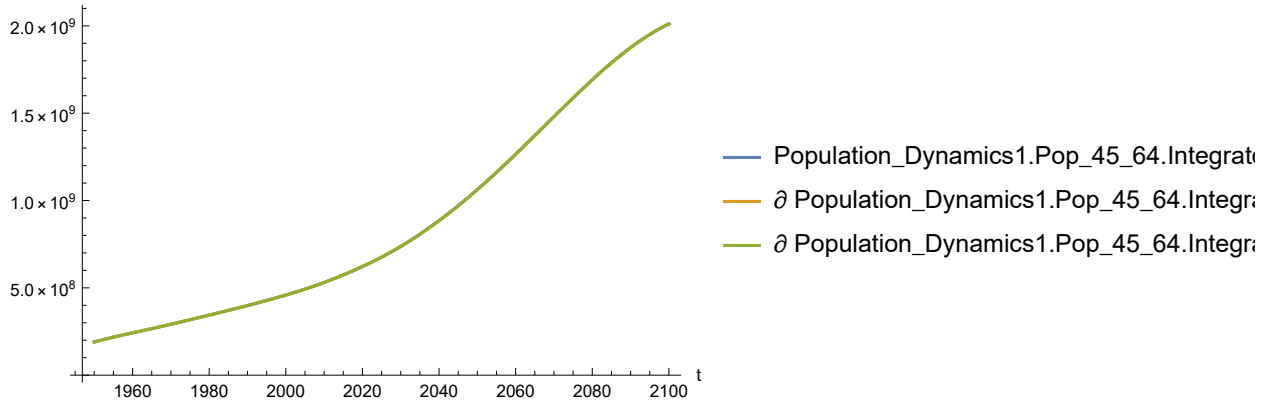
Out[296]=



In[297]:=

```
SystemModelPlot[simsensdata, {"Population_Dynamics1.Pop_45_64.Integrator1.y",
"Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[5]", percentvar}]
```

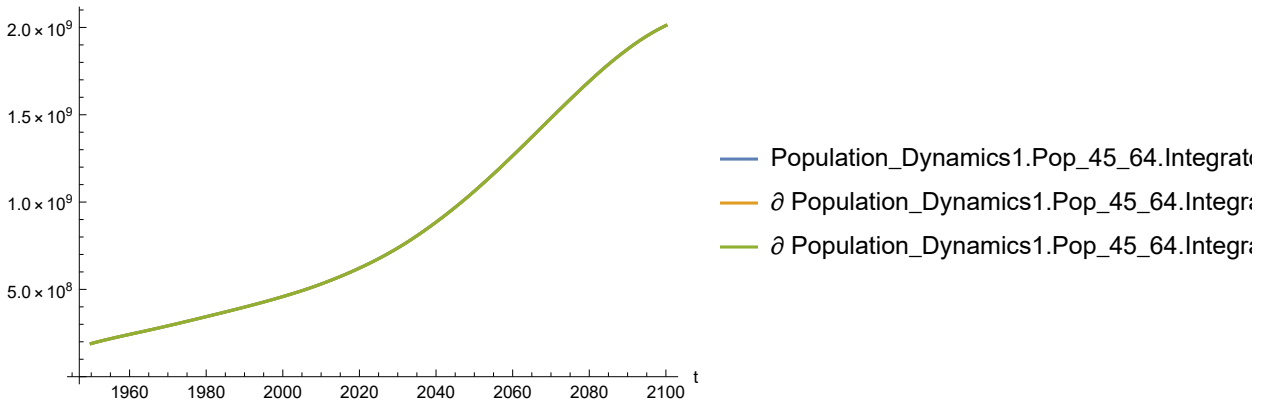
Out[297]=



In[298]:=

```
SystemModelPlot[simsensdata, {"Population_Dynamics1.Pop_45_64.Integrator1.y",
"Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[6]", percentvar}]
```

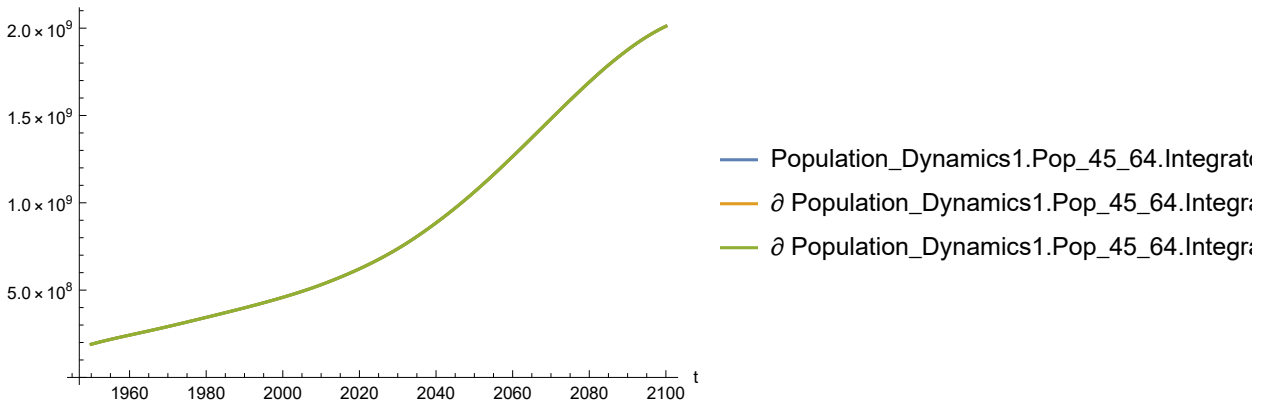
Out[298]=



In[299]:=

```
SystemModelPlot[simsensdata, {"Population_Dynamics1.Pop_45_64.Integrator1.y",
"Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[7]", percentvar}]
```

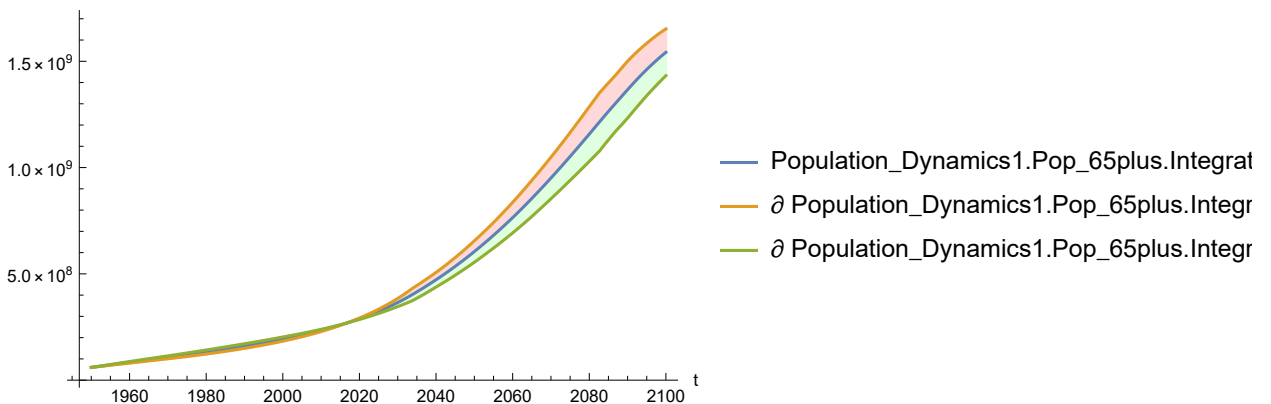
Out[299]=



In[300]:=

```
SystemModelPlot[simsensdata, {"Population_Dynamics1.Pop_65plus.Integrator1.y",
"Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[1]", percentvar}]
```

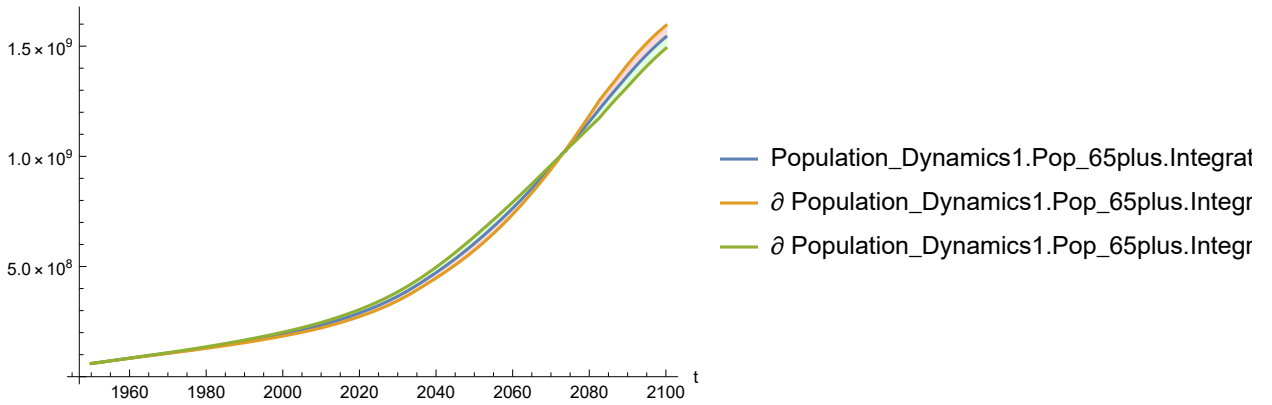
Out[300]=



In[301]:=

```
SystemModelPlot[simsensdata, {"Population_Dynamics1.Pop_65plus.Integrator1.y",
"Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[2]", percentvar}]
```

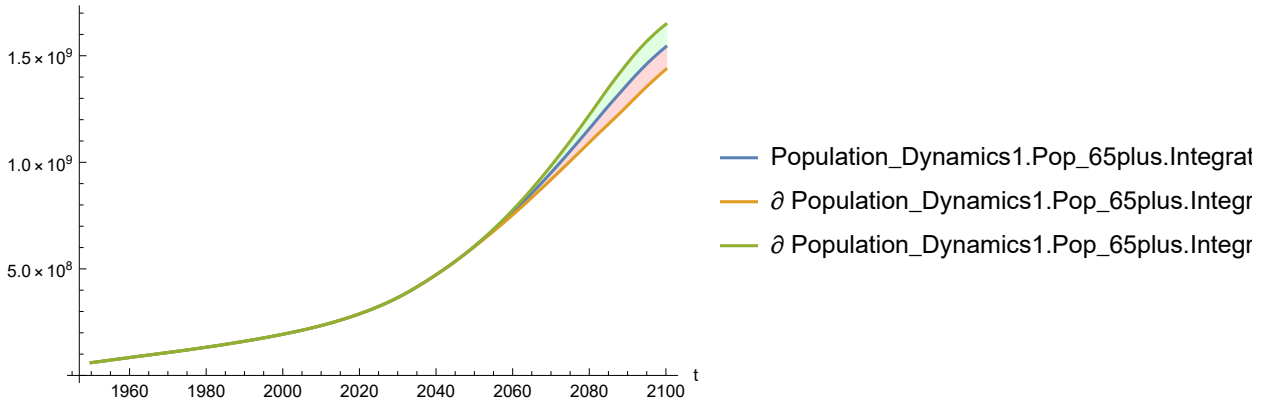
Out[301]=



In[302]:=

```
SystemModelPlot[simsensdata, {"Population_Dynamics1.Pop_65plus.Integrator1.y",
"Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[3]", percentvar}]
```

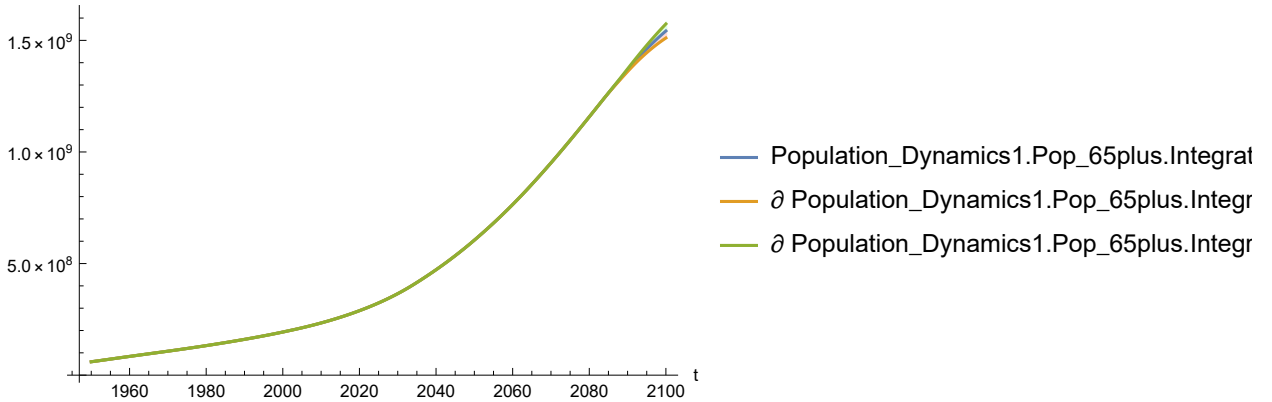
Out[302]=



In[303]:=

```
SystemModelPlot[simsensdata, {"Population_Dynamics1.Pop_65plus.Integrator1.y",
"Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[4]", percentvar}]
```

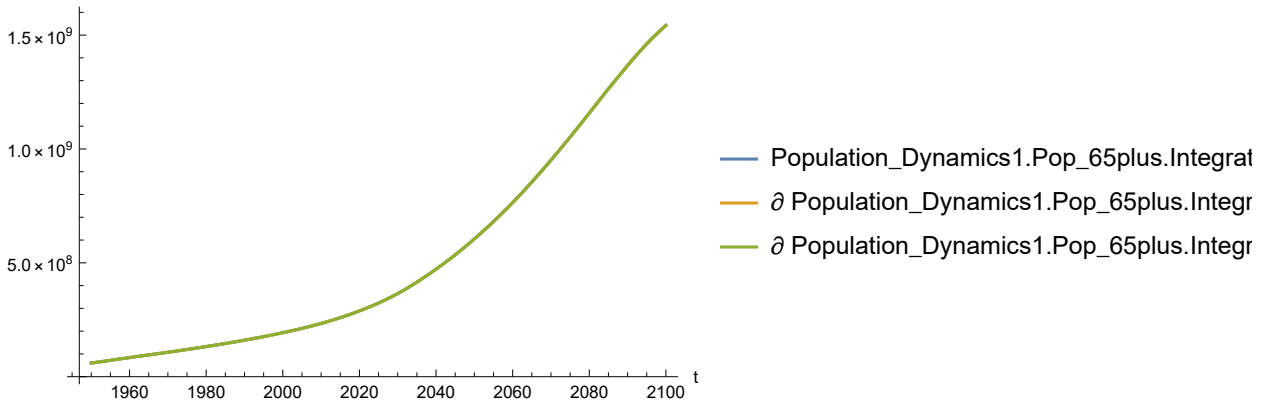
Out[303]=



In[304]:=

```
SystemModelPlot[simsensdata, {"Population_Dynamics1.Pop_65plus.Integrator1.y",
"Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[5]", percentvar}]
```

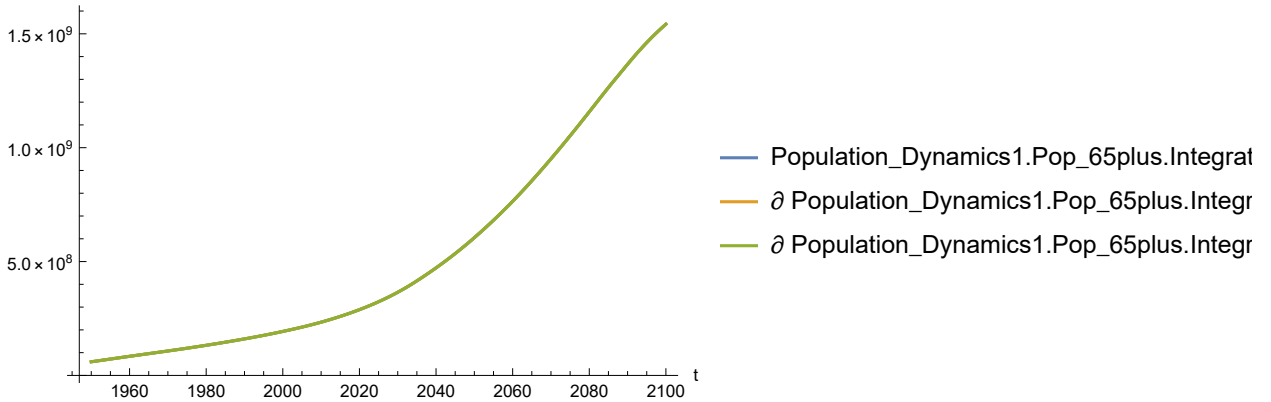
Out[304]=



In[305]:=

```
SystemModelPlot[simsensdata, {"Population_Dynamics1.Pop_65plus.Integrator1.y",
"Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[6]", percentvar}]
```

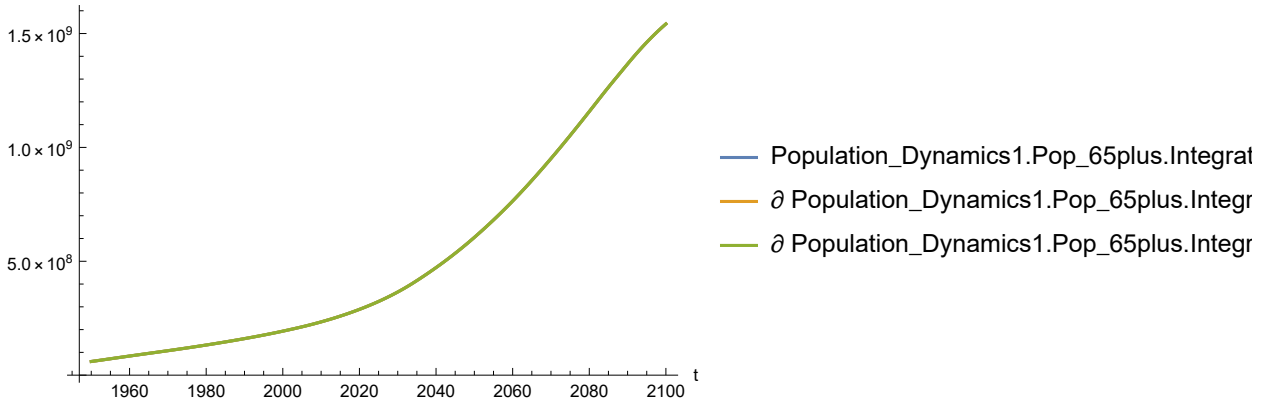
Out[305]=



In[306]:=

```
SystemModelPlot[simsensdata, {"Population_Dynamics1.Pop_65plus.Integrator1.y",
"Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[7]", percentvar}]
```

Out[306]=

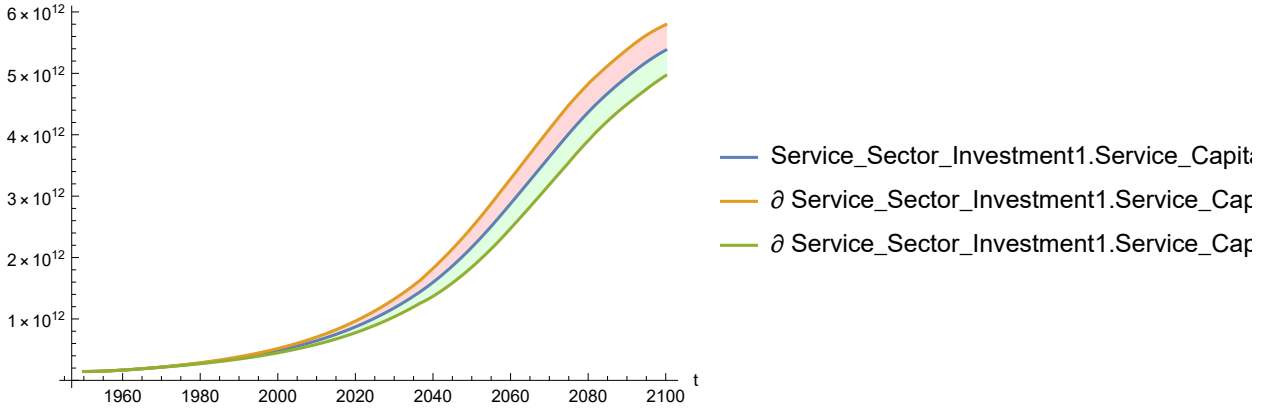


Plot sensitivity of Service_Sector_Investment1.Service_Capital.Integrator1.y to Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals.

In[307]:=

```
SystemModelPlot[simsensdata,
  {"Service_Sector_Investment1.Service_Capital.Integrator1.y",
   "Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[1]", percentvar}]
```

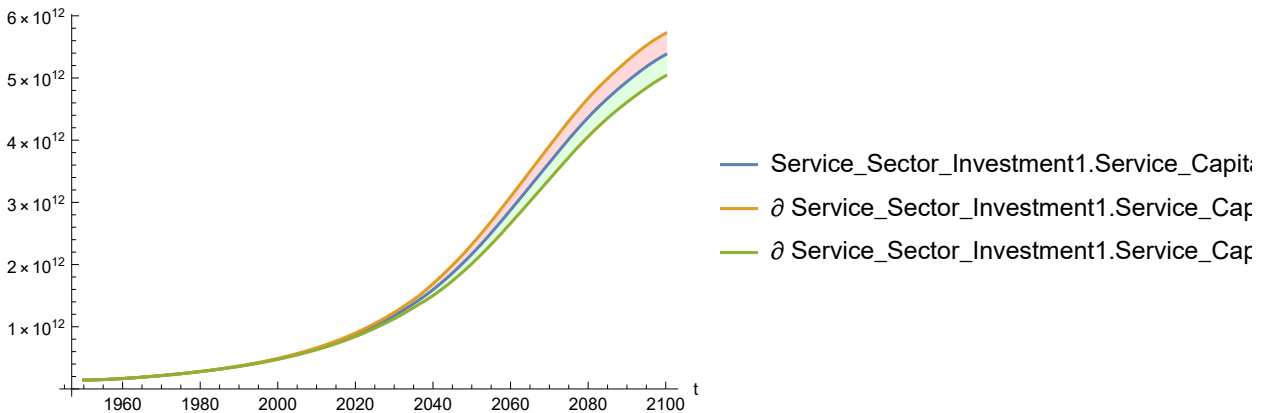
Out[307]=



In[308]:=

```
SystemModelPlot[simsensdata,
  {"Service_Sector_Investment1.Service_Capital.Integrator1.y",
   "Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[2]", percentvar}]
```

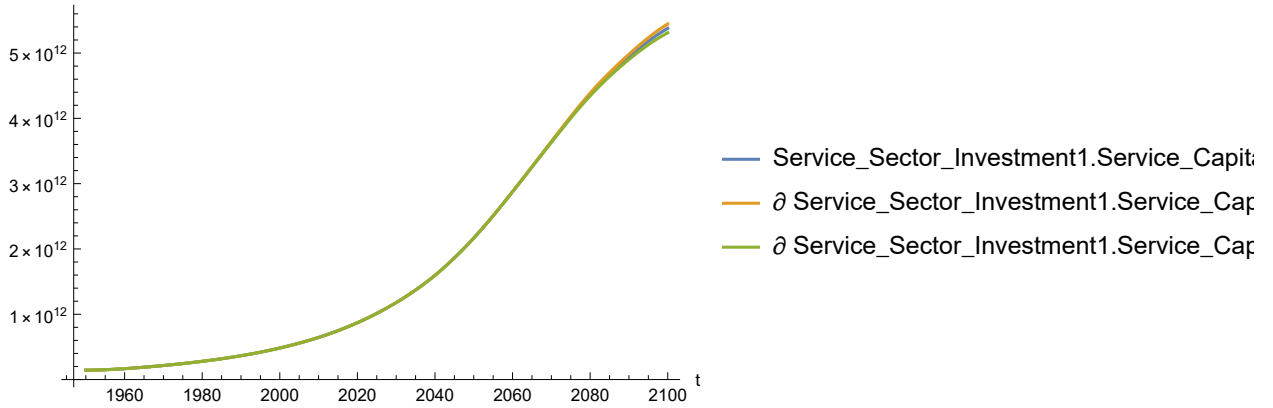
Out[308]=



In[309]:=

```
SystemModelPlot[simsensdata,
  {"Service_Sector_Investment1.Service_Capital.Integrator1.y",
   "Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[3]", percentvar}]
```

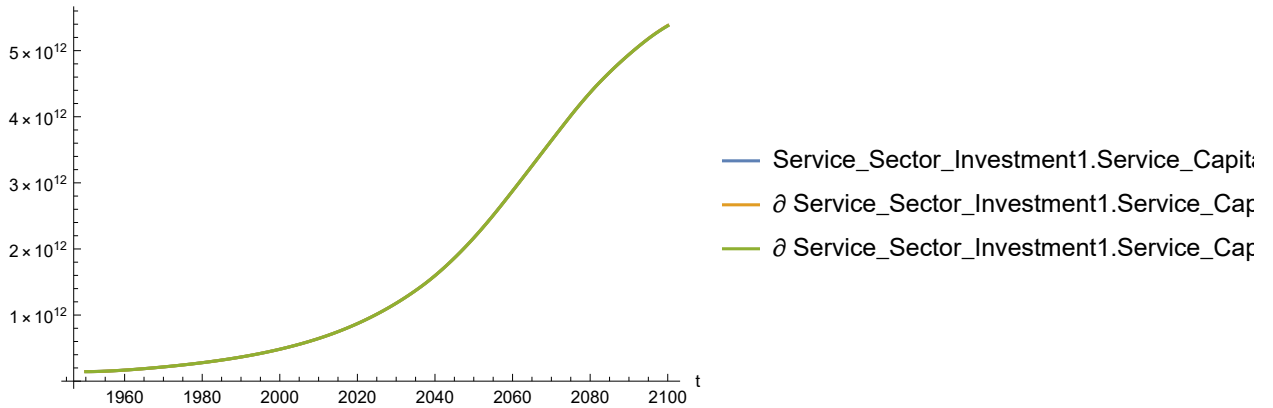
Out[309]=



In[310]:=

```
SystemModelPlot[simsensdata,
  {"Service_Sector_Investment1.Service_Capital.Integrator1.y",
   "Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[4]", percentvar}]
```

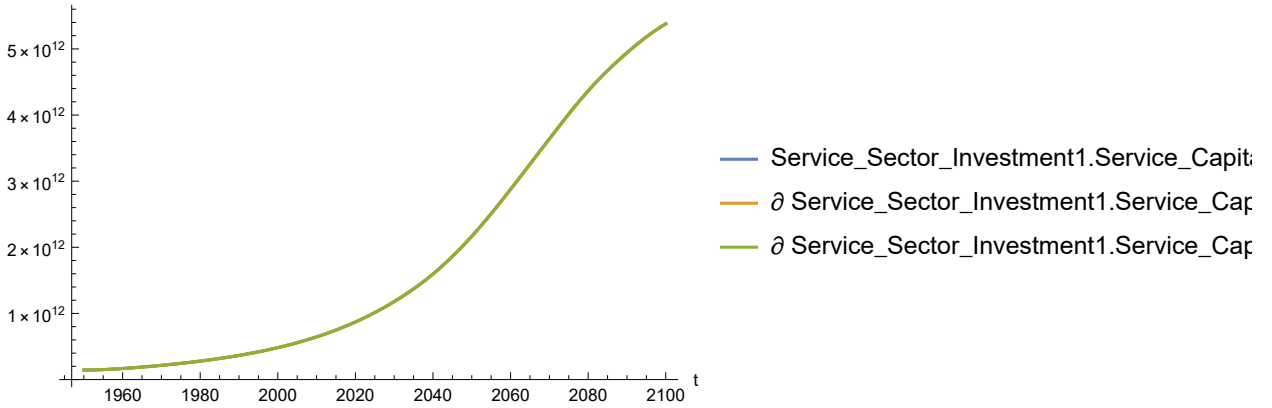
Out[310]=



In[311]:=

```
SystemModelPlot[simsensdata,
  {"Service_Sector_Investment1.Service_Capital.Integrator1.y",
   "Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[5]", percentvar}]
```

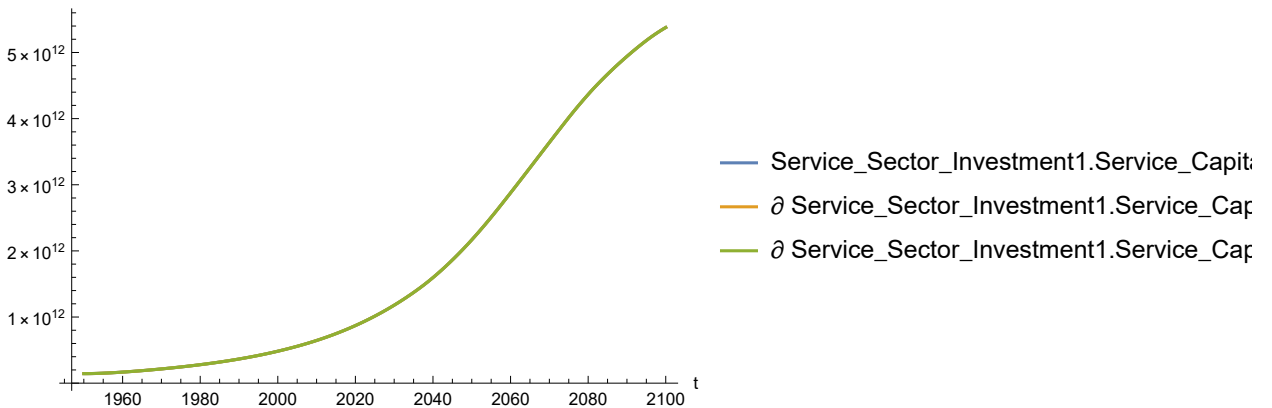
Out[311]=



In[312]:=

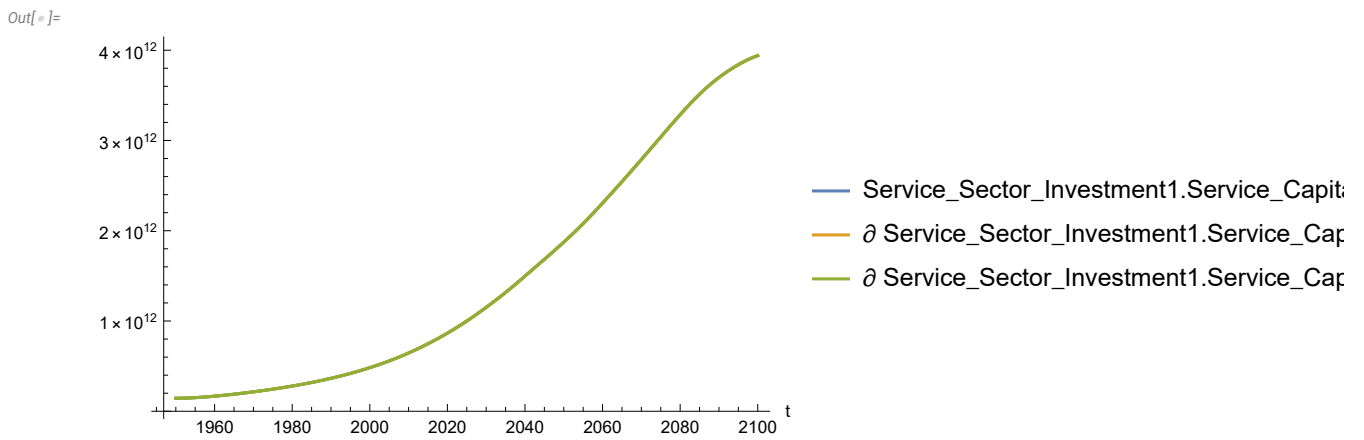
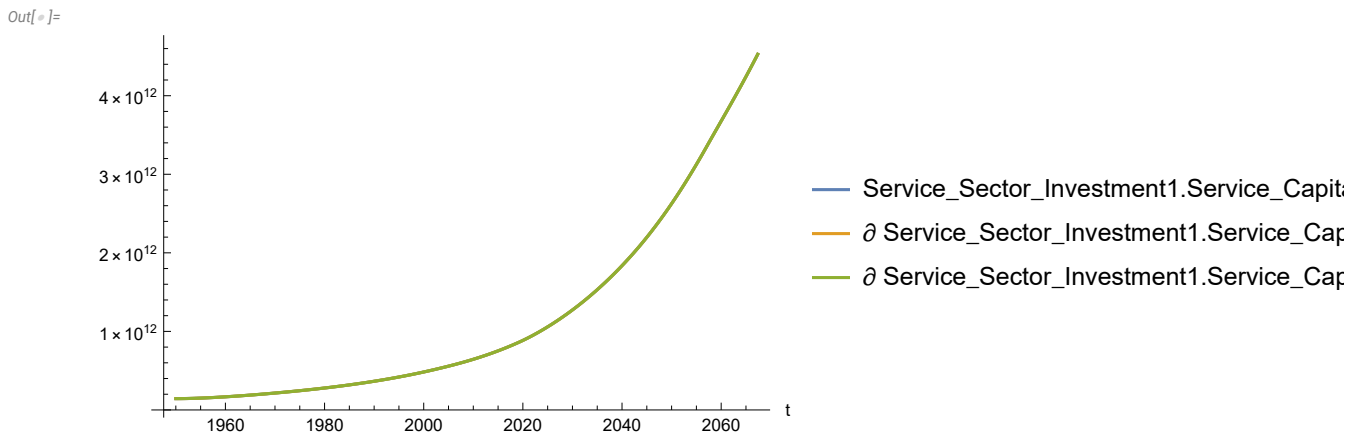
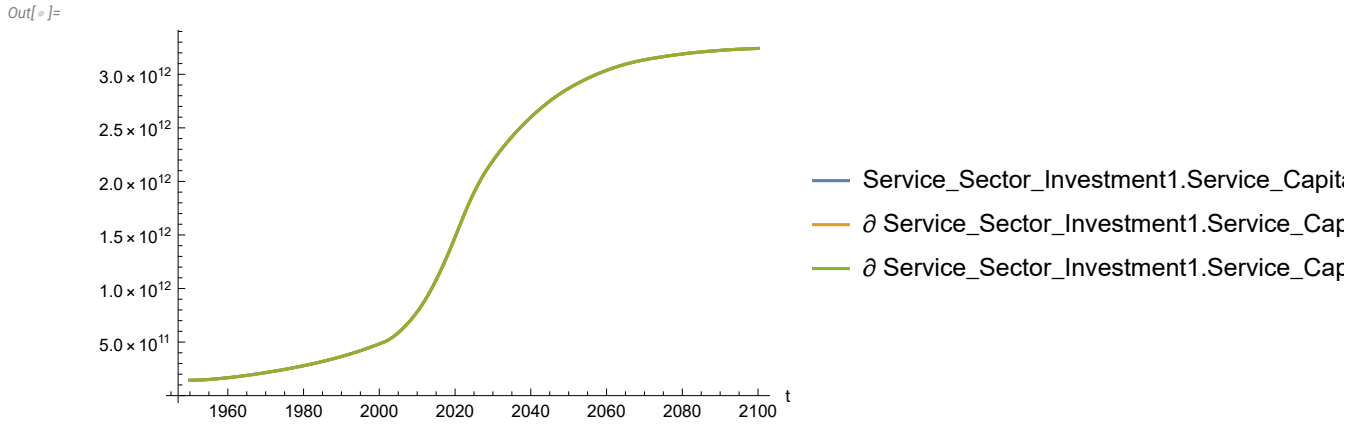
```
SystemModelPlot[simsensdata,
  {"Service_Sector_Investment1.Service_Capital.Integrator1.y",
   "Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[6]", percentvar}]
```

Out[312]=

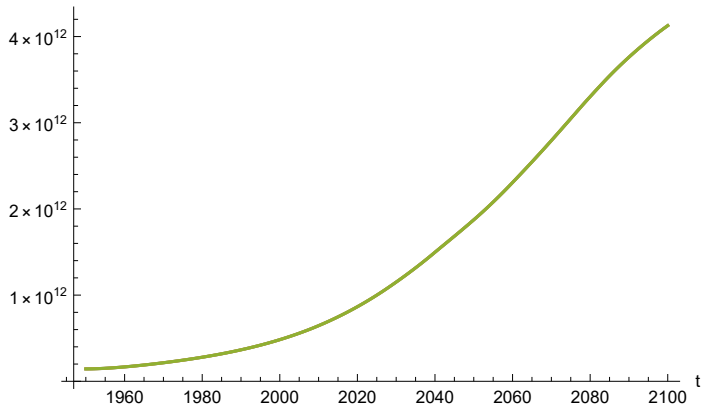


In[313]:=

```
SystemModelPlot[simsensdata,
  {"Service_Sector_Investment1.Service_Capital.Integrator1.y",
   "Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[7]", percentvar}]
```

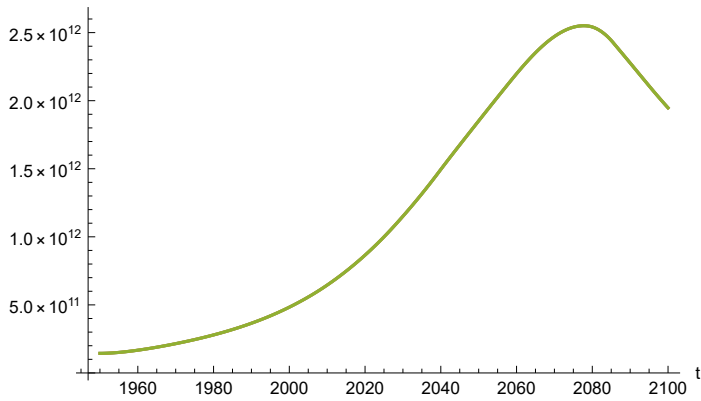


Out[*]=



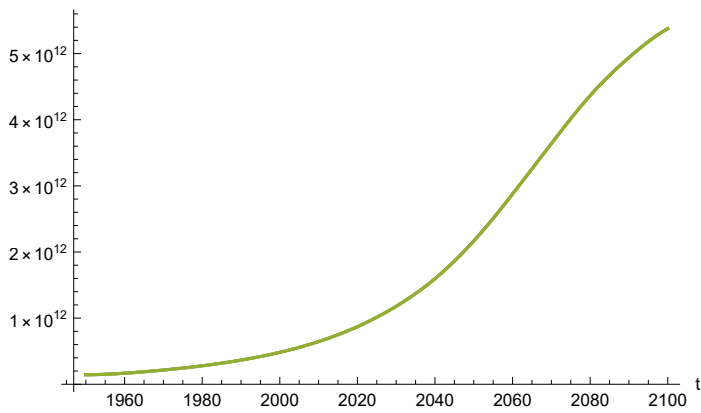
- Service_Sector_Investment1.Service_Capit
- ∂ Service_Sector_Investment1.Service_Cap
- ∂ Service_Sector_Investment1.Service_Cap

Out[*]=



- Service_Sector_Investment1.Service_Capit
- ∂ Service_Sector_Investment1.Service_Cap
- ∂ Service_Sector_Investment1.Service_Cap

Out[313]=



- Service_Sector_Investment1.Service_Capit
- ∂ Service_Sector_Investment1.Service_Cap
- ∂ Service_Sector_Investment1.Service_Cap

Appendix 4. Experiment 4. Benchmark Scenario 4. Compute and plot sensitivity of various World3 variables to Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals values.

Last modified: 28 August 2022/1230 US CT.

Author: J. K. Horner
email: jhorner@cybermesa.com

Platform:

Windows 10

Wolfram Mathematica Home Version v13.1, dynamic updating enabled

Wolfram SystemModeler v12.0

Open Modelica v3.2.2

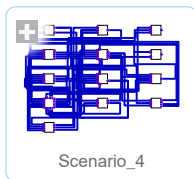
Microsoft Visual C++, version-compatible with the above

Load Benchmark Scenario 4.

In[1]:=

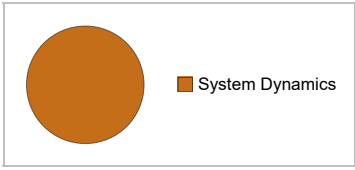
```
mysim = SystemModel["SystemDynamics.WorldDynamics.World3.Scenario_4"]
```

Out[1]:=



Show high-level properties of the scenario.

```
In[2]:= mysummary = mysim["Summary"]
```

	Model	SystemDynamics.WorldDynamics.World3.Scenario_4
	Description	More accessible non-recoverable natural resources, pollution control, and land yield enhancement
	Simulation Interval	True
	Plot	0
	Cells	106
	Background	True
Out[2]=	Simulation Start	265
	Simulation End	265
	Diagram	

Set percent variation. 0.1 = nominal +/- 10%.

```
In[3]:= percentvar = 0.1
```

```
Out[3]= 0.1
```

Show the default **Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals**.

```
In[4]:= SystemModel[mysim] [
  {"ParameterValues", "Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[1]"}]
```

```
Out[4]= {Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[1] → 1}
```

```
In[5]:= SystemModel[mysim] [
  {"ParameterValues", "Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[2]"}]
```

```
Out[5]= {Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[2] → 1.5}
```

```
In[6]:= SystemModel[mysim] [
  {"ParameterValues", "Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[3]"}]
```

```
Out[6]= {Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[3] → 1.9}
```

```
In[7]:= SystemModel[mysim] [
  {"ParameterValues", "Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[4]"}]
```

```
Out[7]= {Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[4] → 2}
```

```

In[8]:= SystemModel[mysim] [
  {"ParameterValues", "Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[5]"}]
Out[8]= {Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[5] → 2}

In[9]:= SystemModel[mysim] [
  {"ParameterValues", "Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[6]"}]
Out[9]= {Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[6] → 2}

In[10]:= SystemModel[mysim] [
  {"ParameterValues", "Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[7]"}]
Out[10]= {Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[7] → 2}


```

Retrieve all variables that **SystemModelSimulateSensitivity** says depend on **Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals**. Set scenario start at 1950 because various **SystemModel** functions have problems with a step function at scenario time 1940. (This is a World3-specific quirk.)

```

In[11]:= simsensdata = SystemModelSimulateSensitivity[mysim,
  {1950, 2100}, {"Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[1]",
  "Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[2]",
  "Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[3]",
  "Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[4]",
  "Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[5]",
  "Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[6]",
  "Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[7]"}]

```

 **SystemModelSimulateSensitivity**: At time 2002. s: An event occurred while performing sensitivity analysis. This may produce incorrect results depending on your model. Further similar warnings will not be displayed.

Out[11]=

```

SystemModelSimulationData [
   Model: Scenario_4
  Time: 1.95 × 103 to 2.10 × 103 ]

```

Show the names of the World3 variables in **simsensdata** that **SystemModelSimulateSensitivity** recognizes.

```

In[12]:= simsensdata["SensitivityNames"]
Out[12]=
{ {Arable_Land_Dynamics1.Arable_Land.Integrator1.y,
  Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[1] },
  {Arable_Land_Dynamics1.Arable_Land.Integrator1.y,
  Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[2] },
  {Arable_Land_Dynamics1.Arable_Land.Integrator1.y,
  Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[3] },
  {Arable_Land_Dynamics1.Arable_Land.Integrator1.y,
  Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[4] },
  {Arable_Land_Dynamics1.Arable_Land.Integrator1.y,
  Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[5] },

```

```

{Arable_Land_Dynamics1.Arable_Land.Integrator1.y,
 Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[6]},
{Arable_Land_Dynamics1.Arable_Land.Integrator1.y,
 Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[7]},
{Arable_Land_Dynamics1.Pot_Arable_Land.Integrator1.y,
 Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[1]},
{Arable_Land_Dynamics1.Pot_Arable_Land.Integrator1.y,
 Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[2]},
{Arable_Land_Dynamics1.Pot_Arable_Land.Integrator1.y,
 Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[3]},
{Arable_Land_Dynamics1.Pot_Arable_Land.Integrator1.y,
 Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[4]},
{Arable_Land_Dynamics1.Pot_Arable_Land.Integrator1.y,
 Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[5]},
{Arable_Land_Dynamics1.Pot_Arable_Land.Integrator1.y,
 Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[6]},
{Arable_Land_Dynamics1.Pot_Arable_Land.Integrator1.y,
 Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[7]},
{Arable_Land_Dynamics1.Urban_Ind_Land.Integrator1.y,
 Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[1]},
{Arable_Land_Dynamics1.Urban_Ind_Land.Integrator1.y,
 Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[2]},
{Arable_Land_Dynamics1.Urban_Ind_Land.Integrator1.y,
 Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[3]},
{Arable_Land_Dynamics1.Urban_Ind_Land.Integrator1.y,
 Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[4]},
{Arable_Land_Dynamics1.Urban_Ind_Land.Integrator1.y,
 Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[5]},
{Arable_Land_Dynamics1.Urban_Ind_Land.Integrator1.y,
 Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[6]},
{Arable_Land_Dynamics1.Urban_Ind_Land.Integrator1.y,
 Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[7]},
{Food_Production1.Agr_Inp.Integrator1.y,
 Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[1]},
{Food_Production1.Agr_Inp.Integrator1.y,
 Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[2]},
{Food_Production1.Agr_Inp.Integrator1.y,
 Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[3]},
{Food_Production1.Agr_Inp.Integrator1.y,
 Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[4]},
{Food_Production1.Agr_Inp.Integrator1.y,
 Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[5]},
{Food_Production1.Agr_Inp.Integrator1.y,
 Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[6]},
{Food_Production1.Agr_Inp.Integrator1.y,
 Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[7]},
{Food_Production1.P_Land_Yield_Fact_2.Smooth1.Integrator1.y,

```

```

Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[1]},
{Food_Production1.P_Land_Yield_Fact_2.Smooth1.Integrator1.y,
Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[2]},
{Food_Production1.P_Land_Yield_Fact_2.Smooth1.Integrator1.y,
Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[3]},
{Food_Production1.P_Land_Yield_Fact_2.Smooth1.Integrator1.y,
Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[4]},
{Food_Production1.P_Land_Yield_Fact_2.Smooth1.Integrator1.y,
Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[5]},
{Food_Production1.P_Land_Yield_Fact_2.Smooth1.Integrator1.y,
Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[6]},
{Food_Production1.P_Land_Yield_Fact_2.Smooth1.Integrator1.y,
Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[7]},
{Food_Production1.P_Land_Yield_Fact_2.Smooth2.Integrator1.y,
Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[1]},
{Food_Production1.P_Land_Yield_Fact_2.Smooth2.Integrator1.y,
Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[2]},
{Food_Production1.P_Land_Yield_Fact_2.Smooth2.Integrator1.y,
Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[3]},
{Food_Production1.P_Land_Yield_Fact_2.Smooth2.Integrator1.y,
Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[4]},
{Food_Production1.P_Land_Yield_Fact_2.Smooth2.Integrator1.y,
Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[5]},
{Food_Production1.P_Land_Yield_Fact_2.Smooth2.Integrator1.y,
Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[6]},
{Food_Production1.P_Land_Yield_Fact_2.Smooth2.Integrator1.y,
Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[7]},
{Food_Production1.P_Land_Yield_Fact_2.Smooth3.Integrator1.y,
Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[1]},
{Food_Production1.P_Land_Yield_Fact_2.Smooth3.Integrator1.y,
Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[2]},
{Food_Production1.P_Land_Yield_Fact_2.Smooth3.Integrator1.y,
Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[3]},
{Food_Production1.P_Land_Yield_Fact_2.Smooth3.Integrator1.y,
Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[4]},
{Food_Production1.P_Land_Yield_Fact_2.Smooth3.Integrator1.y,
Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[5]},
{Food_Production1.P_Land_Yield_Fact_2.Smooth3.Integrator1.y,
Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[6]},
{Food_Production1.P_Land_Yield_Fact_2.Smooth3.Integrator1.y,
Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[7]},
{Food_Production1.Perc_Food_Ratio.Integrator1.y,
Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[1]},
{Food_Production1.Perc_Food_Ratio.Integrator1.y,
Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[2]},
{Food_Production1.Perc_Food_Ratio.Integrator1.y,
Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[3]},

```



```

{Food_Production1.Perc_Food_Ratio.Integrator1.y,
 Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[4]},
{Food_Production1.Perc_Food_Ratio.Integrator1.y,
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{Pollution_Dynamics1.PPoll_Appear_Rate.Smooth1.Integrator1.y,
 Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[2]},
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 Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[3]},
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 Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[4]},
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 Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[5]},
{Pollution_Dynamics1.PPoll_Appear_Rate.Smooth1.Integrator1.y,
 Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[6]},
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 Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[7]},
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 Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[1]},
{Pollution_Dynamics1.PPoll_Appear_Rate.Smooth2.Integrator1.y,
 Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[2]},
{Pollution_Dynamics1.PPoll_Appear_Rate.Smooth2.Integrator1.y,
 Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[3]},
{Pollution_Dynamics1.PPoll_Appear_Rate.Smooth2.Integrator1.y,
 Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[4]},
{Pollution_Dynamics1.PPoll_Appear_Rate.Smooth2.Integrator1.y,
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{Pollution_Dynamics1.PPoll_Appear_Rate.Smooth2.Integrator1.y,
 Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[6]},
{Pollution_Dynamics1.PPoll_Appear_Rate.Smooth2.Integrator1.y,
 Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[7]},
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```

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Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[3]},
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Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[5]},
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Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[7]},
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Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[2]},
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Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[4]},
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Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[5]},
{Pollution_Dynamics1.P_PPoll_Gen_Fact_2.Smooth2.Integrator1.y,
Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[6]},
{Pollution_Dynamics1.P_PPoll_Gen_Fact_2.Smooth2.Integrator1.y,
Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[7]},
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{Pollution_Dynamics1.P_PPoll_Gen_Fact_2.Smooth3.Integrator1.y,
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 Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[4]},
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```

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Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[2]},
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Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[3]},
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Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[4]},
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Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[5]},
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Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[6]},
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Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[1]},
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Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[2]},
{Service_Sector_Investment1.Service_Capital.Integrator1.y,
Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[3]},
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Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[4]},
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{Service_Sector_Investment1.Service_Capital.Integrator1.y,
Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[6]},
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Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[7]}

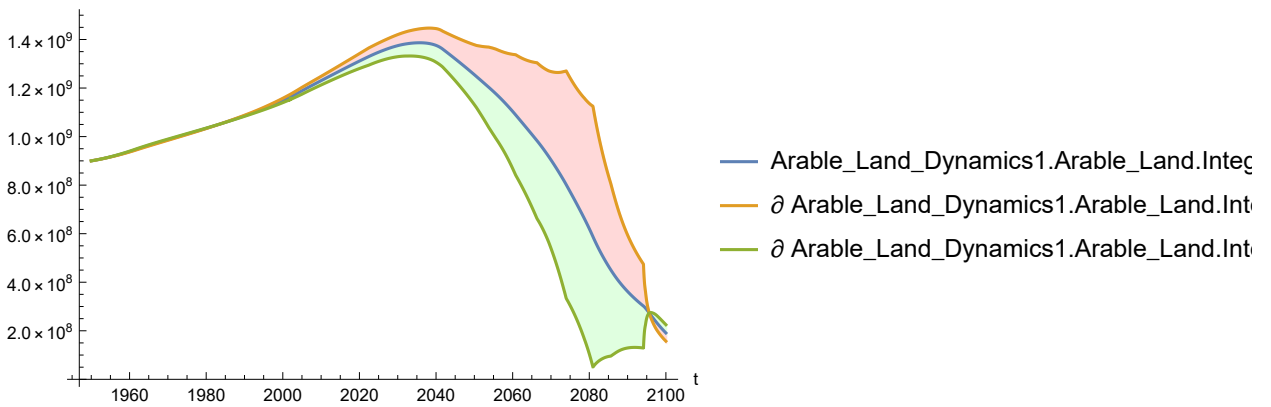
```

Programming note: in Mathematica, the following list of **SystemModelPlot** instructions could be replaced by a loop or iteration construct that cycles over **simsensdata**. The resulting source code would be elegant, but upon execution it turns out to have dynamic updating issues that the Platform described above does not handle well.

Plot the sensitivity of `Arable_Land_Dynamics1.Arable_Land.Integrator1.y` to `Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals`.

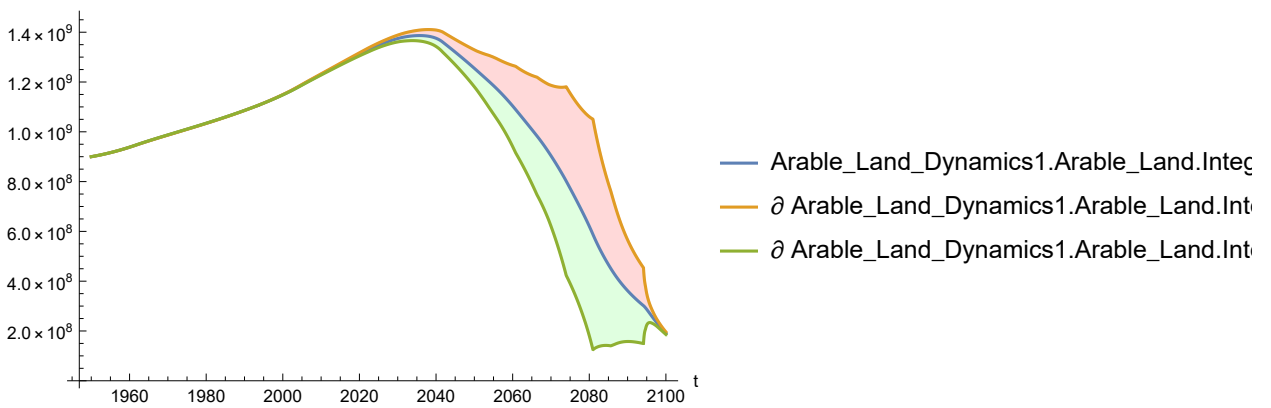
```
In[13]:= SystemModelPlot[simsensdata, {"Arable_Land_Dynamics1.Arable_Land.Integrator1.y",
  "Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[1]", percentvar}]
```

Out[13]=



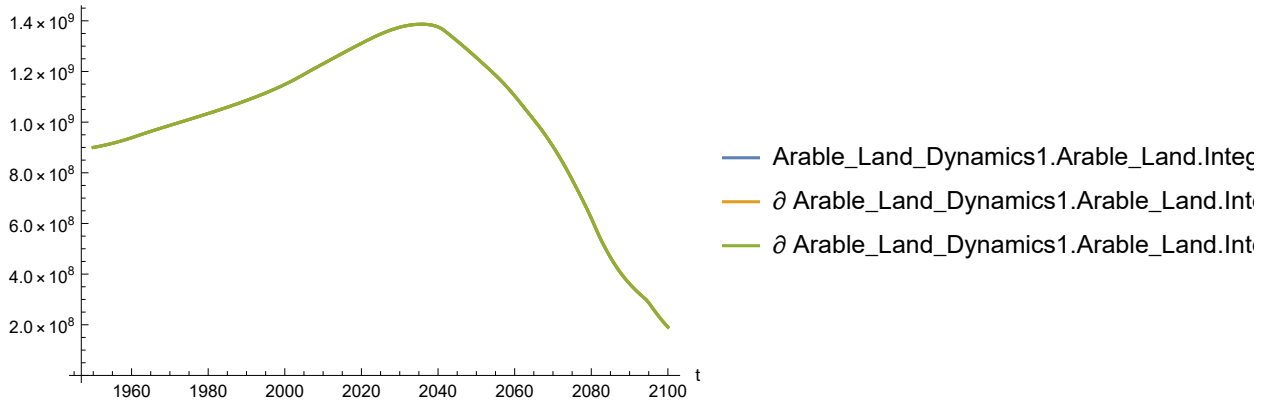
```
In[14]:= SystemModelPlot[simsensdata, {"Arable_Land_Dynamics1.Arable_Land.Integrator1.y",
  "Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[2]", percentvar}]
```

Out[14]=



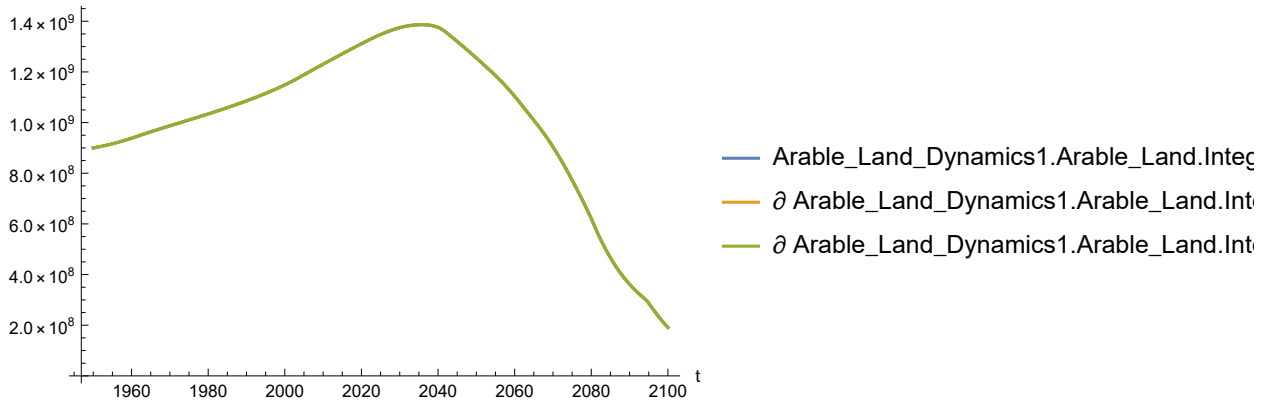
```
In[15]:= SystemModelPlot[simsensdata, {"Arable_Land_Dynamics1.Arable_Land.Integrator1.y",
"Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[3]", percentvar}]
```

Out[15]=



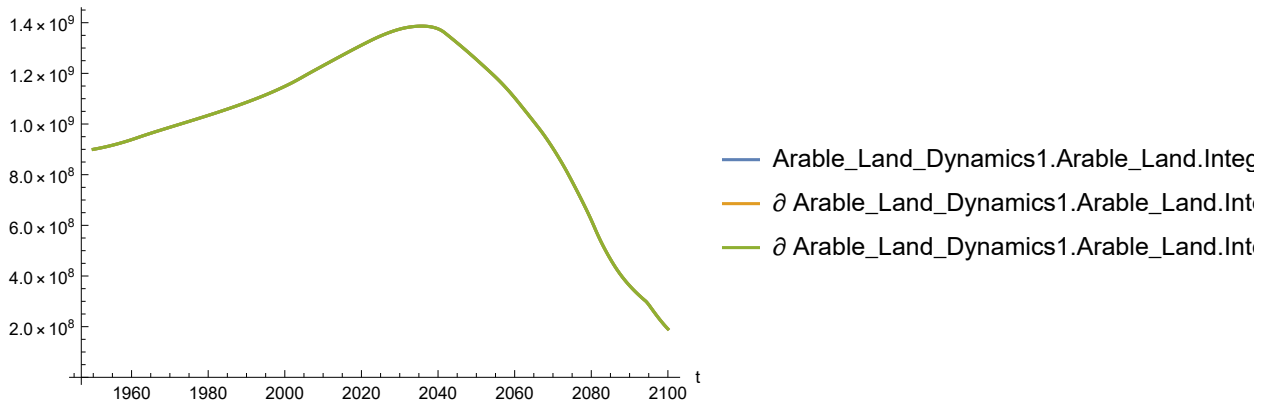
```
In[16]:= SystemModelPlot[simsensdata, {"Arable_Land_Dynamics1.Arable_Land.Integrator1.y",
"Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[4]", percentvar}]
```

Out[16]=



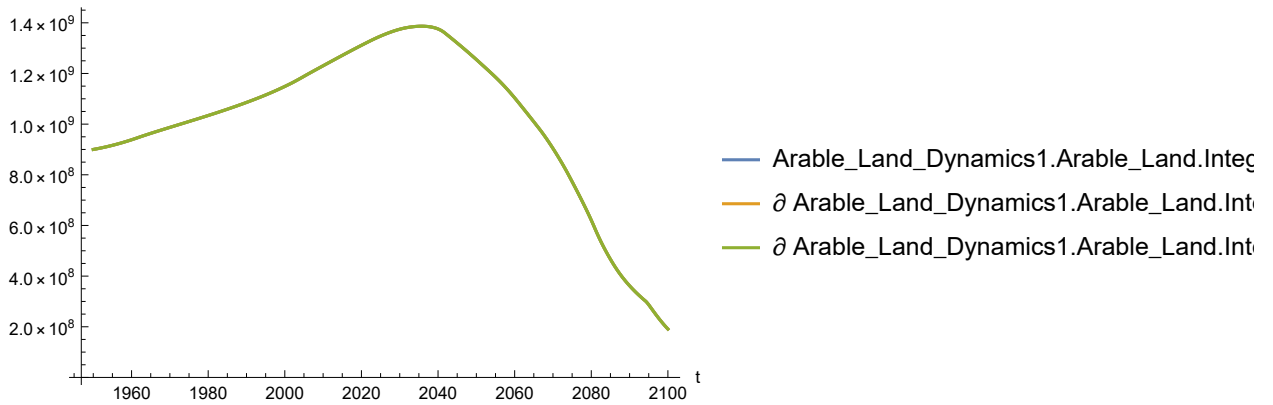
```
In[17]:= SystemModelPlot[simsensdata, {"Arable_Land_Dynamics1.Arable_Land.Integrator1.y",
"Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[5]", percentvar}]
```

Out[17]=



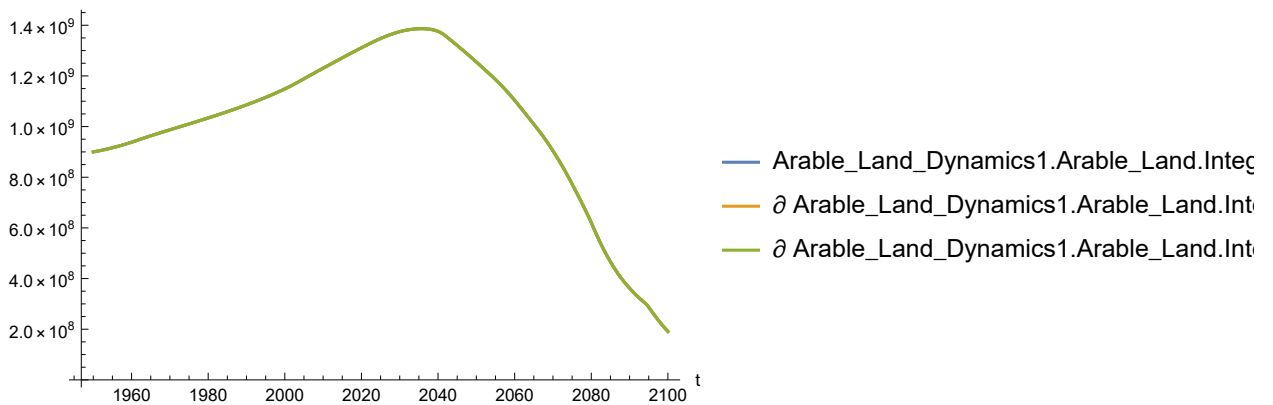
```
In[18]:= SystemModelPlot[simsensdata, {"Arable_Land_Dynamics1.Arable_Land.Integrator1.y",
"Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[6]", percentvar}]
```

Out[18]=



```
In[19]:= SystemModelPlot[simsensdata, {"Arable_Land_Dynamics1.Arable_Land.Integrator1.y",
"Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[7]", percentvar}]
```

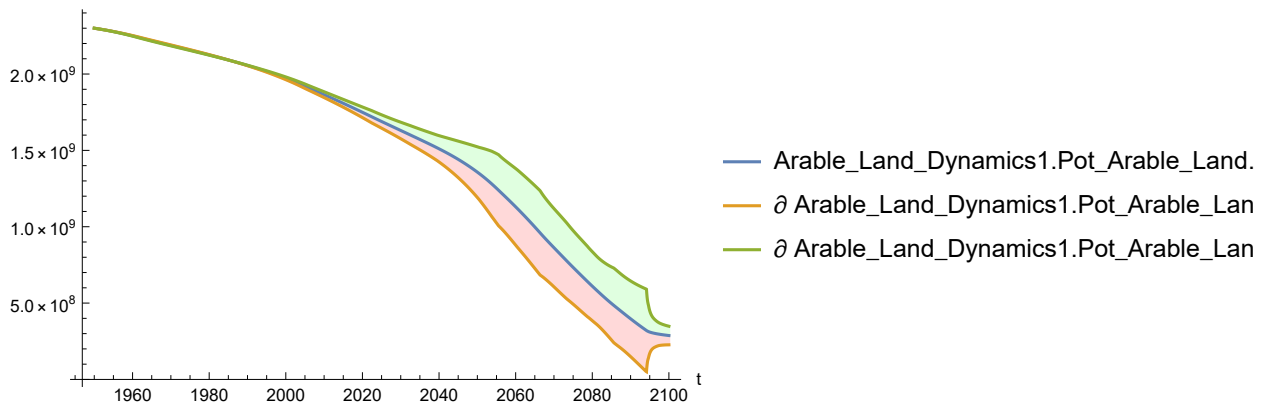
Out[19]=



Plot the sensitivity of `Arable_Land_Dynamics1.Pot_Arable_Land.Integrator1.y` to `Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals`.

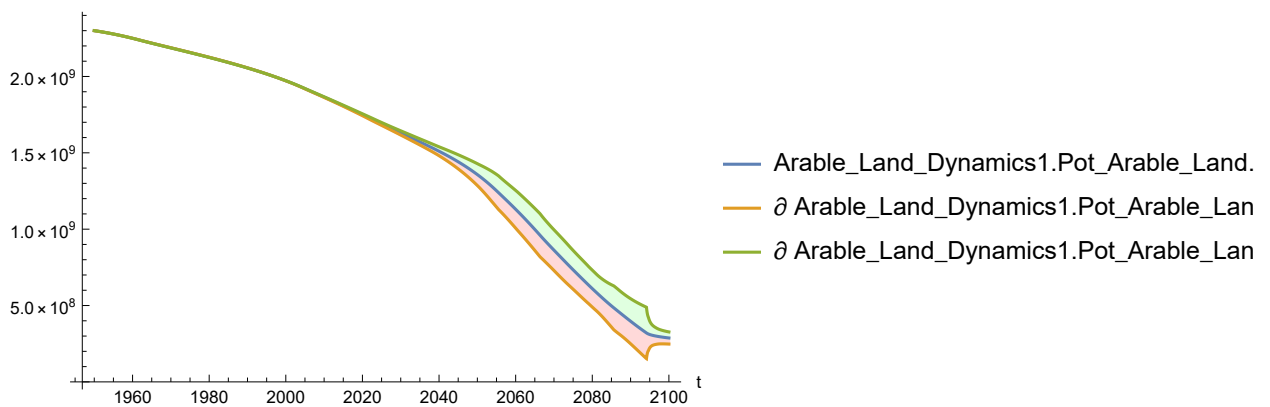
```
In[20]:= SystemModelPlot[simsensdata, {"Arable_Land_Dynamics1.Pot_Arable_Land.Integrator1.y",
"Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[1]", percentvar}]
```

Out[20]=



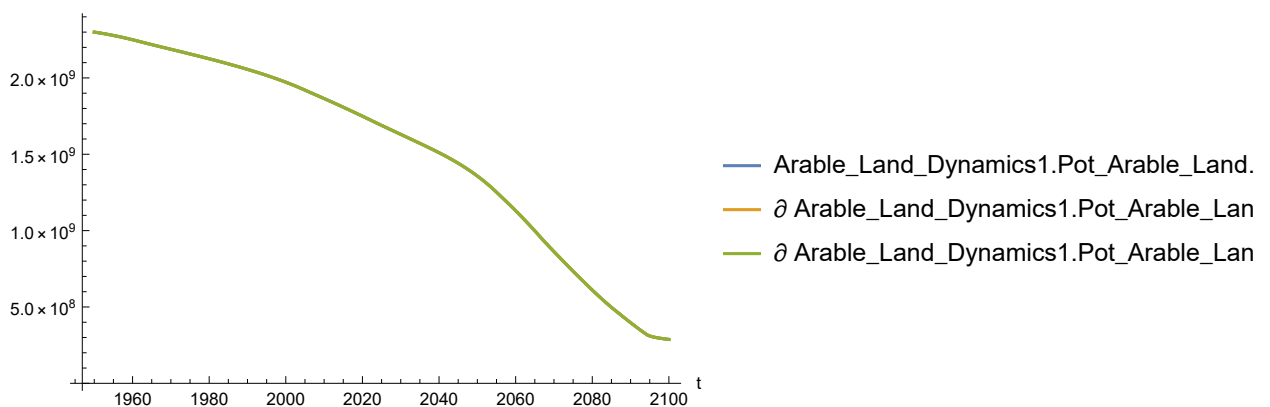
```
In[21]:= SystemModelPlot[simsensdata, {"Arable_Land_Dynamics1.Pot_Arable_Land.Integrator1.y",
"Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[2]", percentvar}]
```

Out[21]=



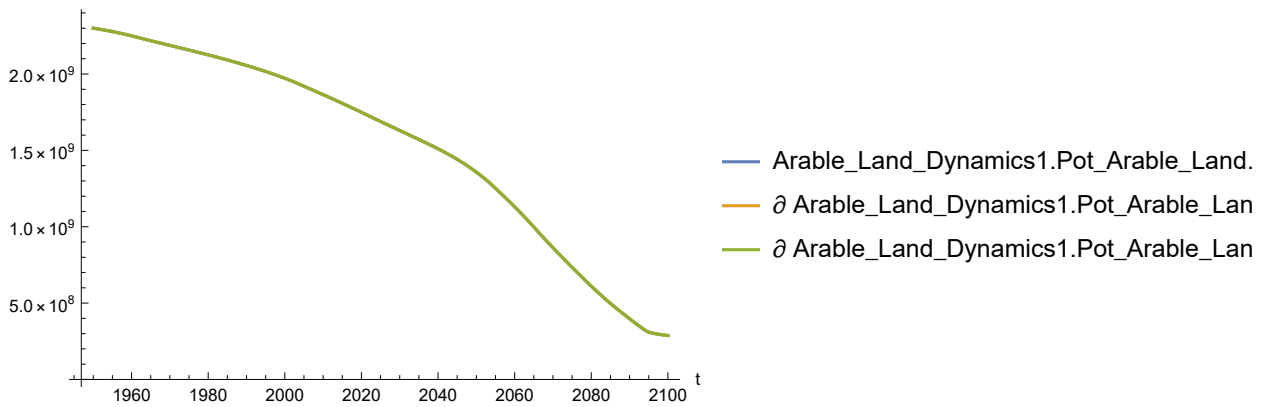
```
In[22]:= SystemModelPlot[simsensdata, {"Arable_Land_Dynamics1.Pot_Arable_Land.Integrator1.y",
"Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[3]", percentvar}]
```

Out[22]=



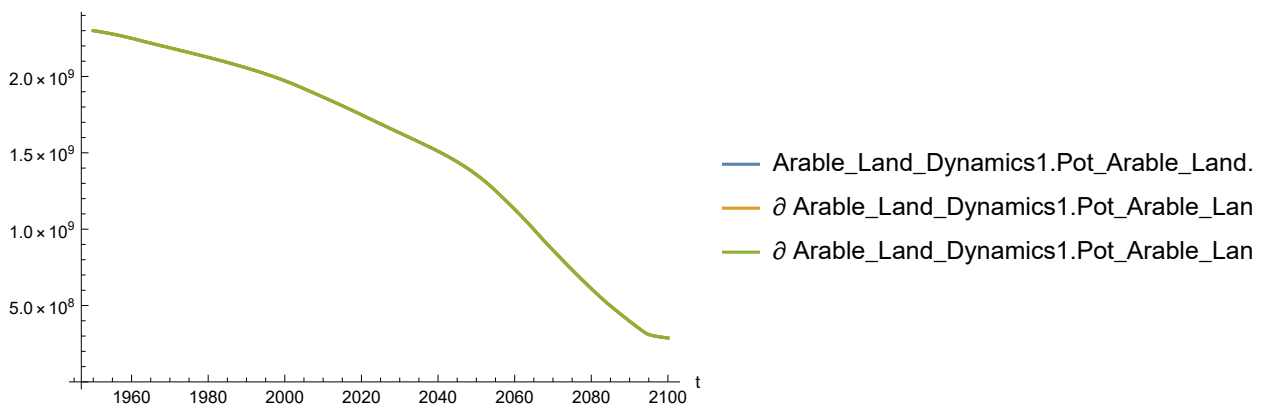
```
In[23]:= SystemModelPlot[simsensdata, {"Arable_Land_Dynamics1.Pot_Arable_Land.Integrator1.y",
"Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[4]", percentvar}]
```

Out[23]=



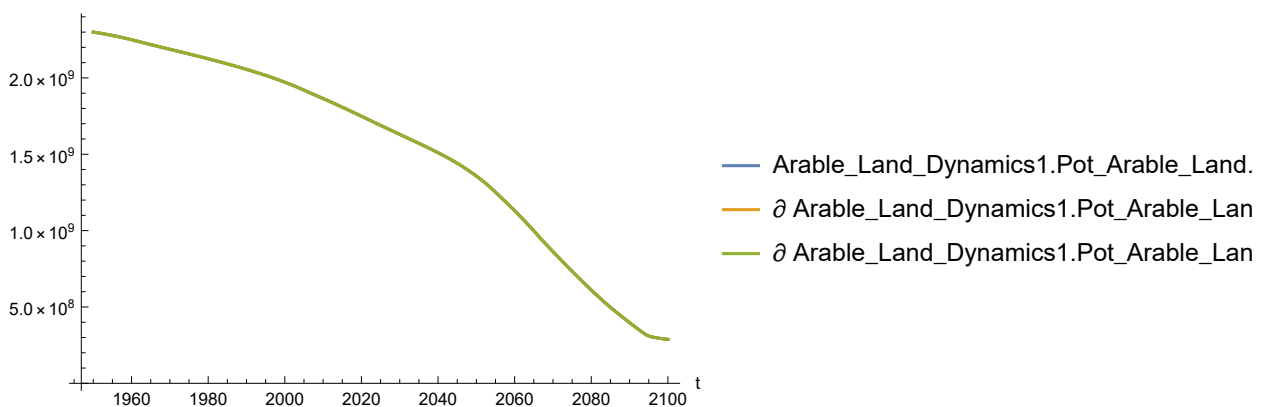
```
In[24]:= SystemModelPlot[simsensdata, {"Arable_Land_Dynamics1.Pot_Arable_Land.Integrator1.y",
"Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[5]", percentvar}]
```

Out[24]=



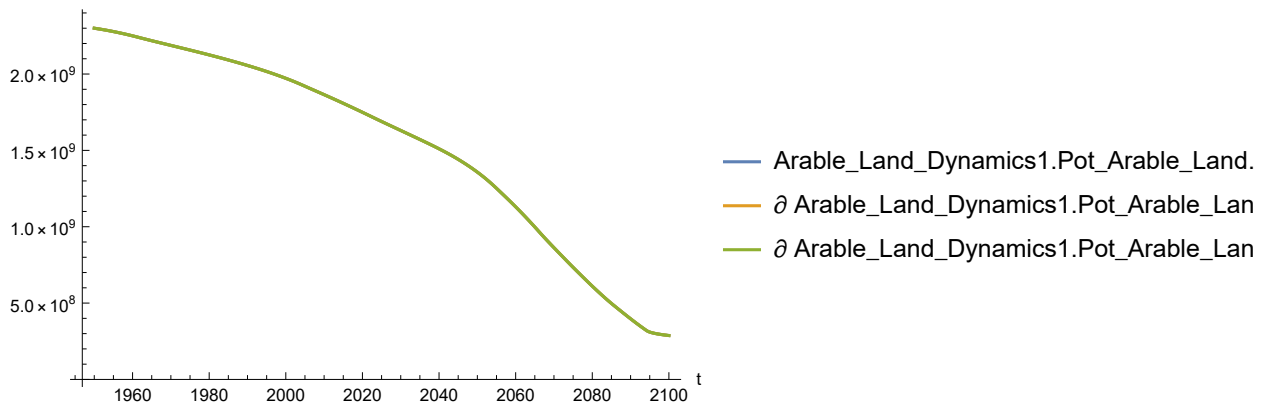
```
In[25]:= SystemModelPlot[simsensdata, {"Arable_Land_Dynamics1.Pot_Arable_Land.Integrator1.y",
"Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[6]", percentvar}]
```

Out[25]=



```
In[26]:= SystemModelPlot[simsensdata, {"Arable_Land_Dynamics1.Pot_Arable_Land.Integrator1.y",
"Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[7]", percentvar}]
```

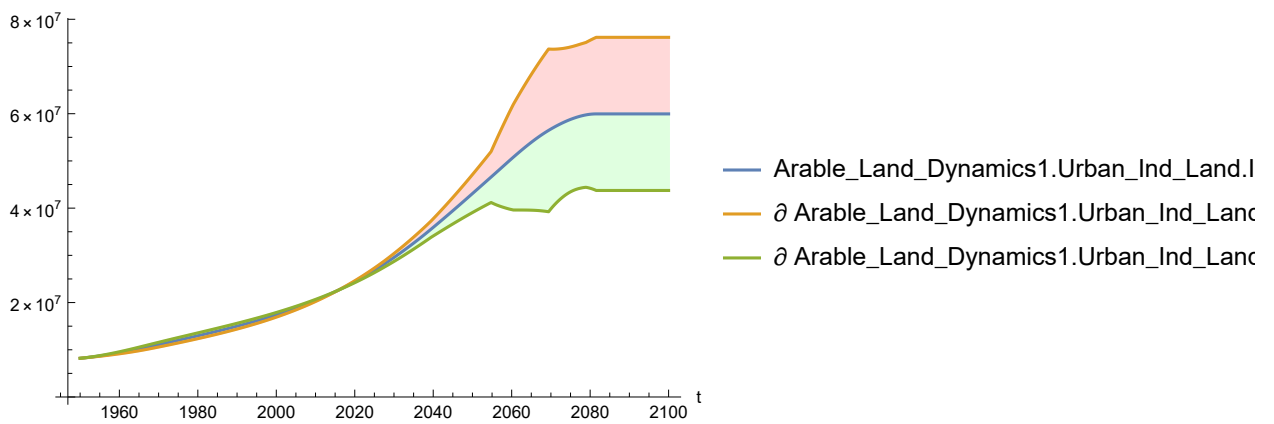
Out[26]=



Plot the sensitivity of Arable_Land_Dynamics1.Urban_Ind_Land.Integrator1.y to Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals.

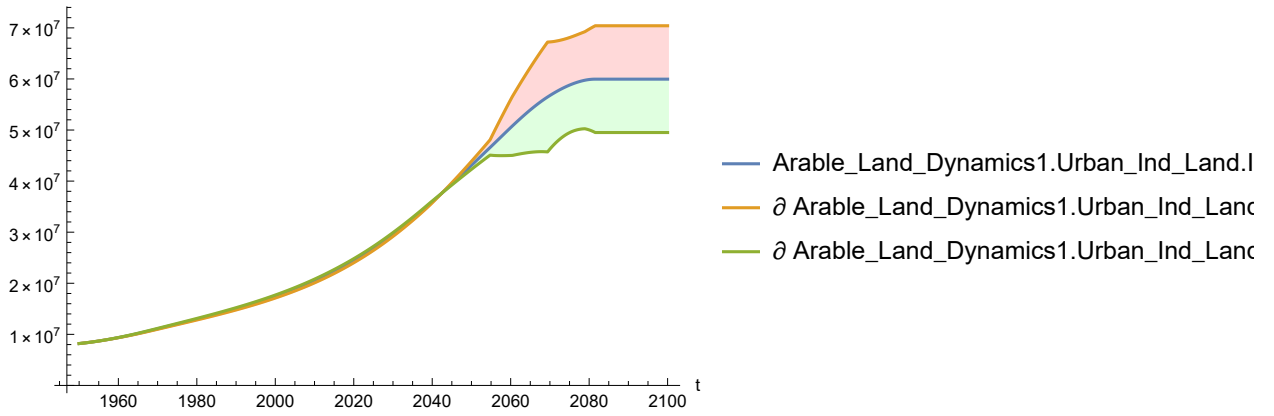
```
In[27]:= SystemModelPlot[simsensdata, {"Arable_Land_Dynamics1.Urban_Ind_Land.Integrator1.y",
"Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[1]", percentvar}]
```

Out[27]=



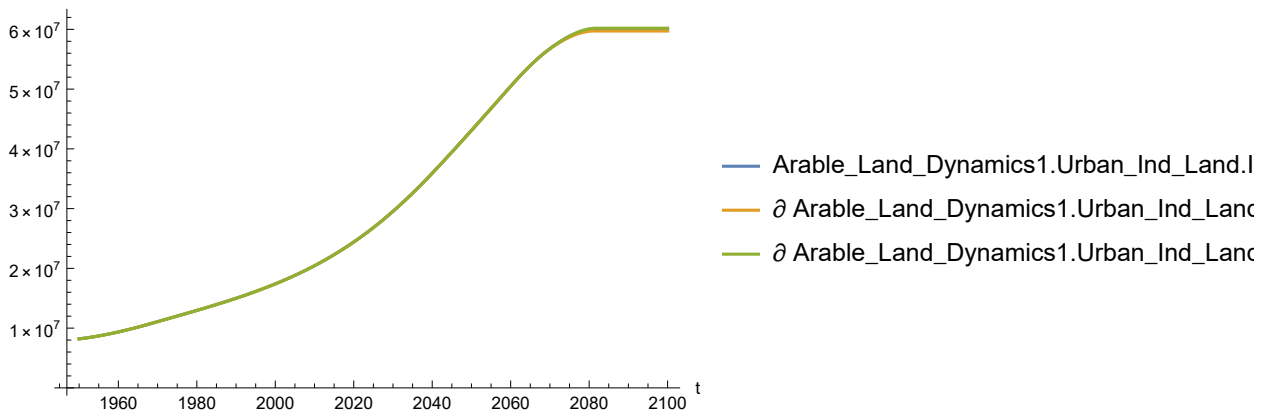

```
In[28]:= SystemModelPlot[simsensdata, {"Arable_Land_Dynamics1.Urban_Ind_Land.Integrator1.y",
"Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[2]", percentvar}]
```

Out[28]=



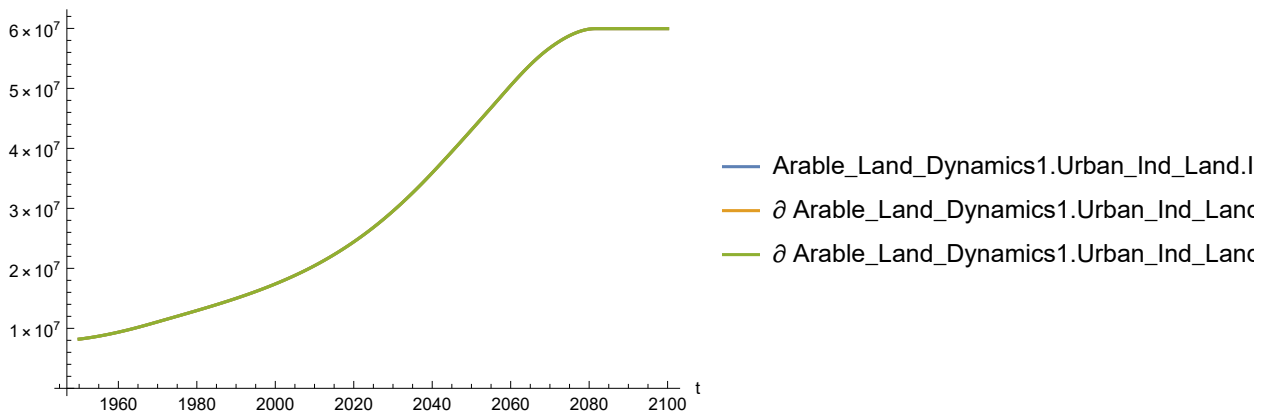
```
In[29]:= SystemModelPlot[simsensdata, {"Arable_Land_Dynamics1.Urban_Ind_Land.Integrator1.y",
"Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[3]", percentvar}]
```

Out[29]=



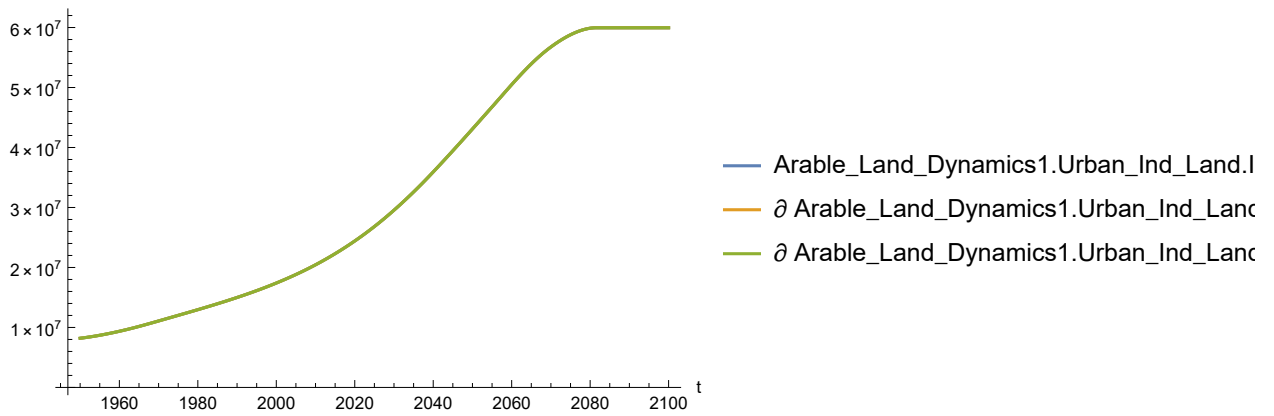
```
In[30]:= SystemModelPlot[simsensdata, {"Arable_Land_Dynamics1.Urban_Ind_Land.Integrator1.y",
"Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[4]", percentvar}]
```

Out[30]=



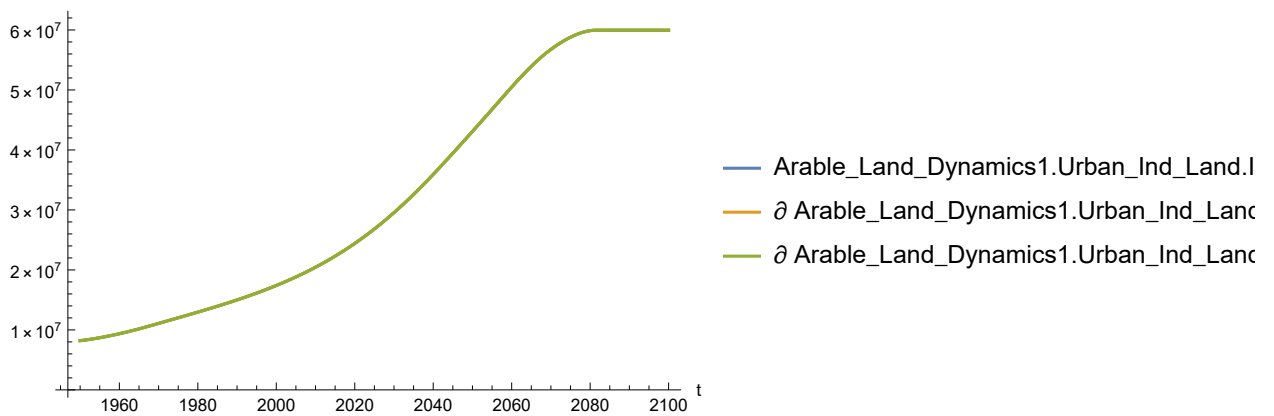
```
In[31]:= SystemModelPlot[simsensdata, {"Arable_Land_Dynamics1.Urban_Ind_Land.Integrator1.y",
"Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[5]", percentvar}]
```

Out[31]=



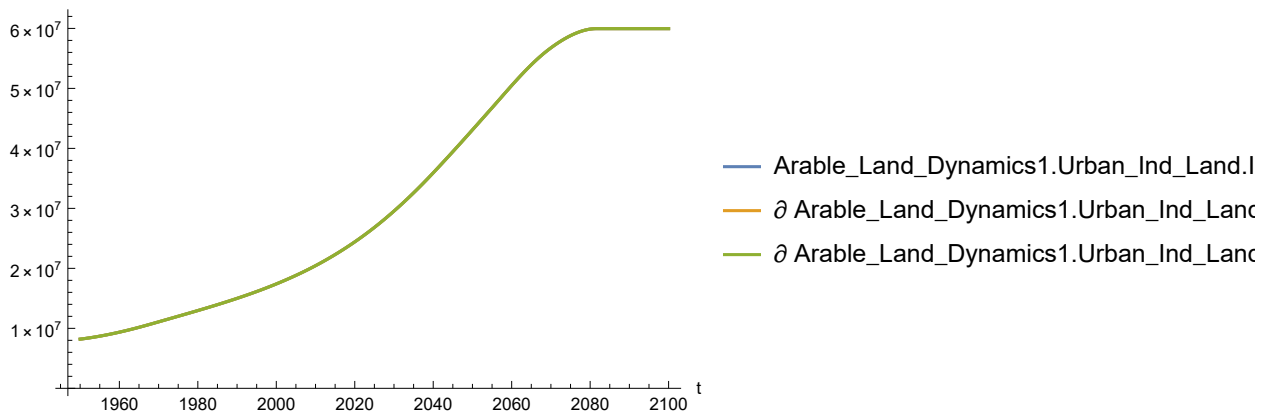
```
In[32]:= SystemModelPlot[simsensdata, {"Arable_Land_Dynamics1.Urban_Ind_Land.Integrator1.y",
"Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[6]", percentvar}]
```

Out[32]=



```
In[33]:= SystemModelPlot[simsensdata, {"Arable_Land_Dynamics1.Urban_Ind_Land.Integrator1.y",
"Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[7]", percentvar}]
```

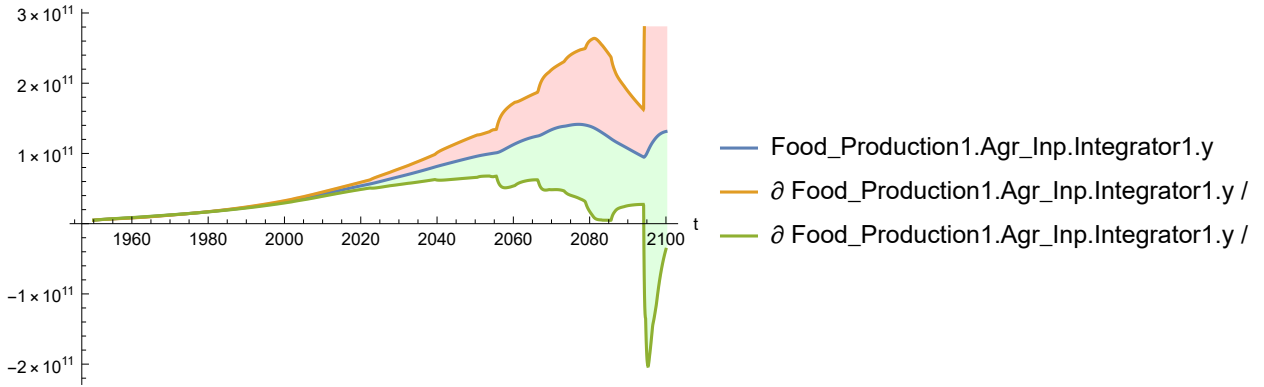
Out[33]=



Plot sensitivity of Food_Production.Agr_Inp.Integrator1.y to **Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals**.

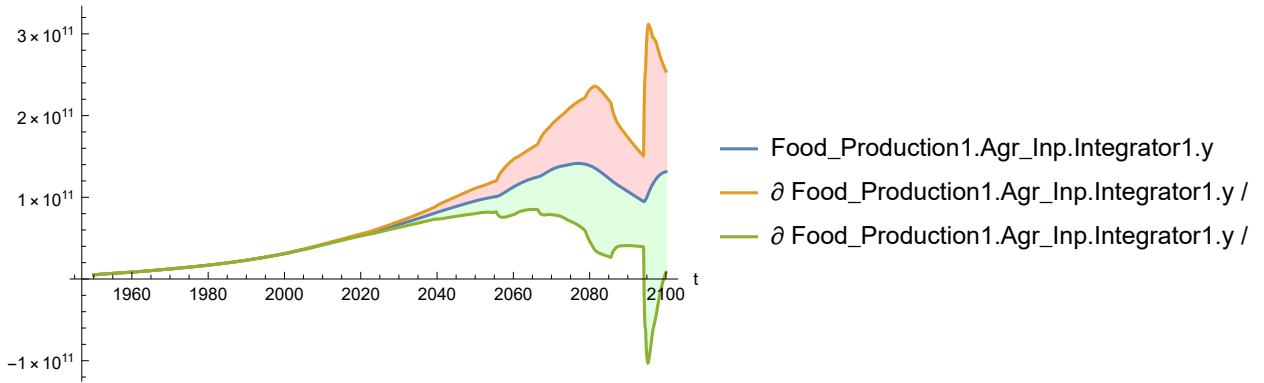
```
In[34]:= SystemModelPlot[simsensdata, {"Food_Production1.Agr_Inp.Integrator1.y",
  "Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[1]", percentvar}]
```

Out[34]=



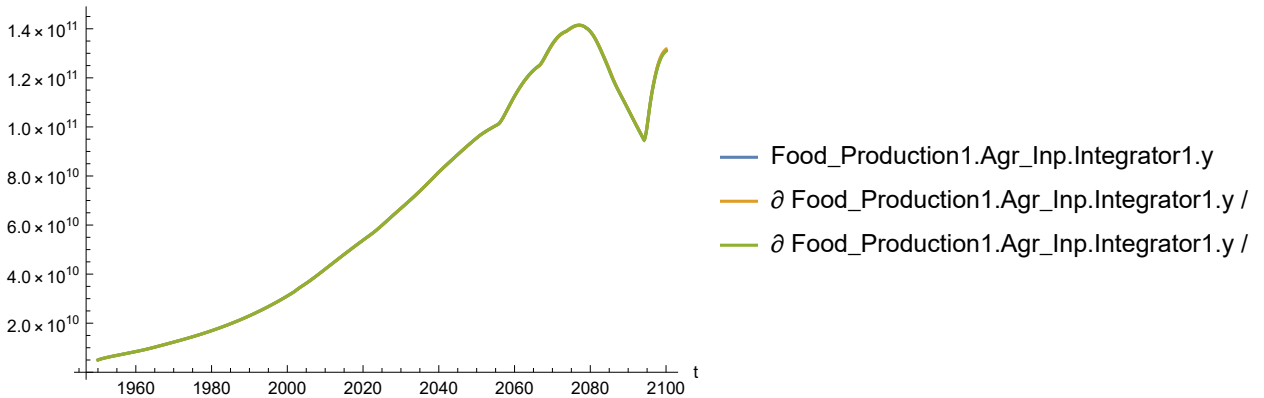
```
In[35]:= SystemModelPlot[simsensdata, {"Food_Production1.Agr_Inp.Integrator1.y",
  "Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[2]", percentvar}]
```

Out[35]=



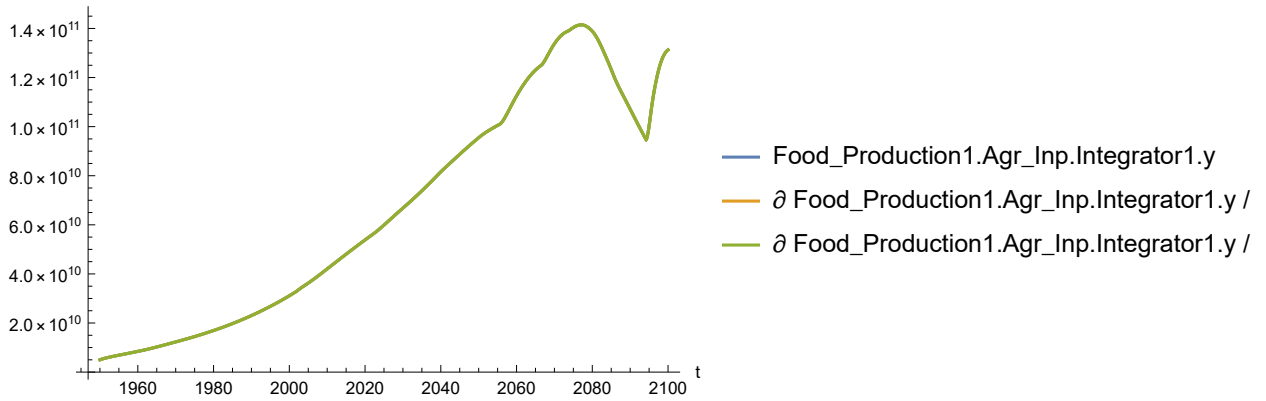
```
In[36]:= SystemModelPlot[simsensdata, {"Food_Production1.Agr_Inp.Integrator1.y",
  "Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[3]", percentvar}]
```

Out[36]=



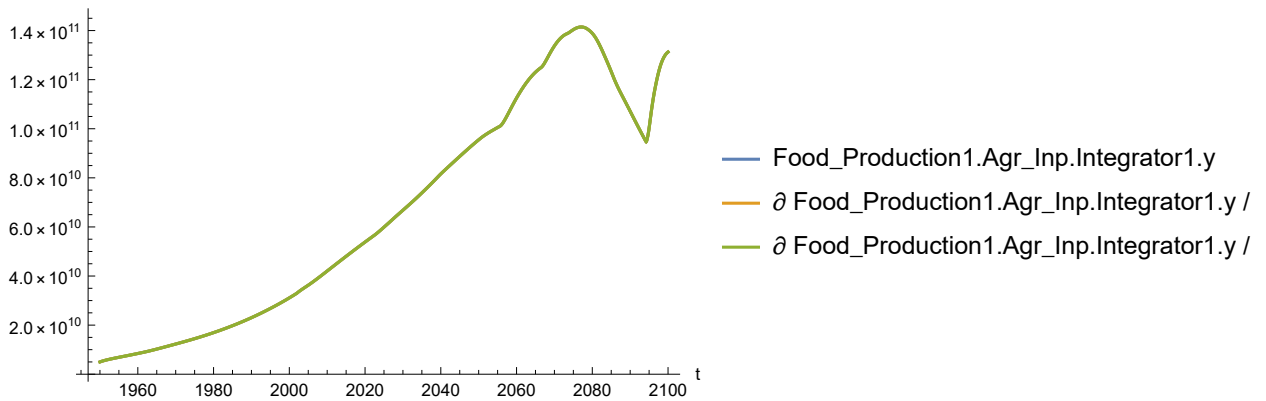
```
In[37]:= SystemModelPlot[simsensdata, {"Food_Production1.Agr_Inp.Integrator1.y",
"Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[4]", percentvar}]
```

Out[37]=



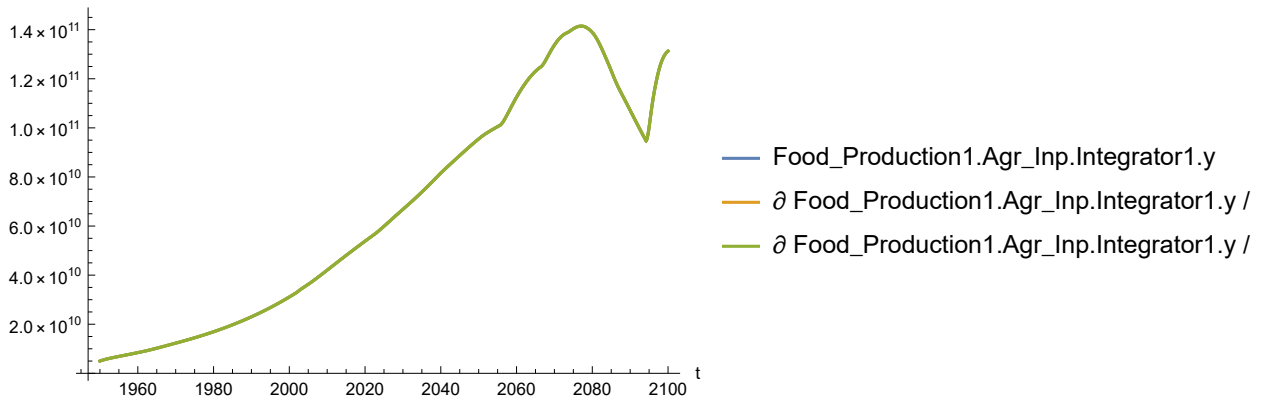
```
In[38]:= SystemModelPlot[simsensdata, {"Food_Production1.Agr_Inp.Integrator1.y",
"Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[5]", percentvar}]
```

Out[38]=



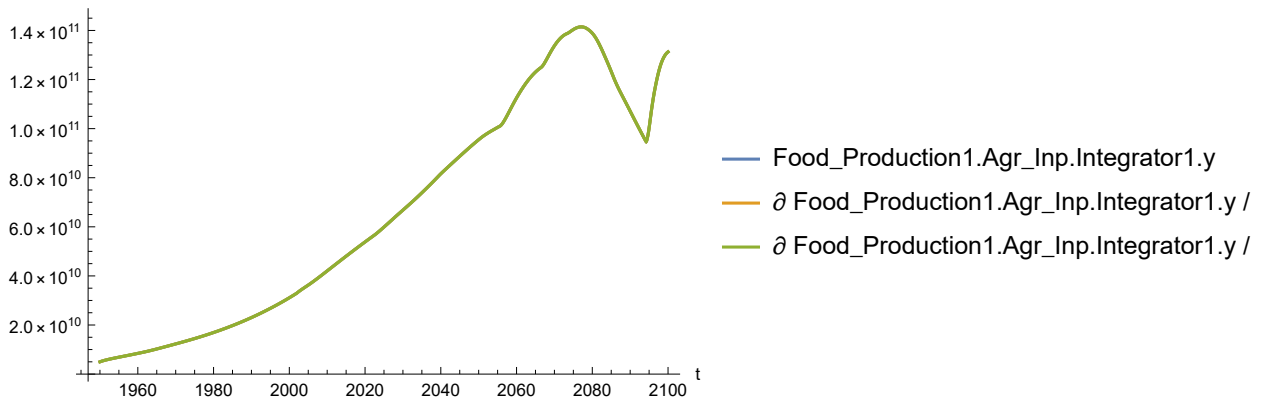
```
In[39]:= SystemModelPlot[simsensdata, {"Food_Production1.Agr_Inp.Integrator1.y",
"Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[6]", percentvar}]
```

Out[39]=



```
In[40]:= SystemModelPlot[simsensdata, {"Food_Production1.Agr_Inp.Integrator1.y",
"Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[7]", percentvar}]
```

Out[40]=

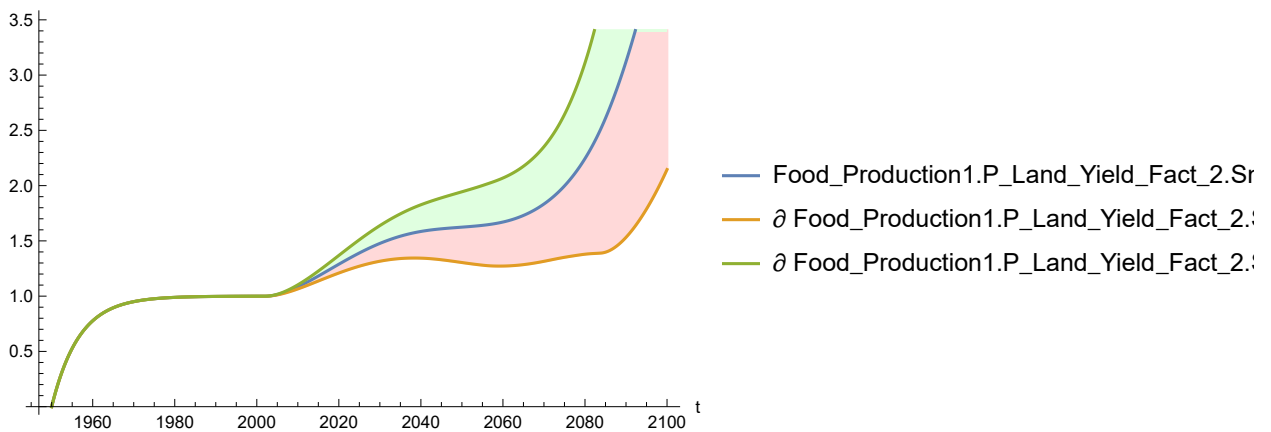


Plot sensitivity of **Food_Production1.P_Land_Yield_Fact2** to **Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals**.

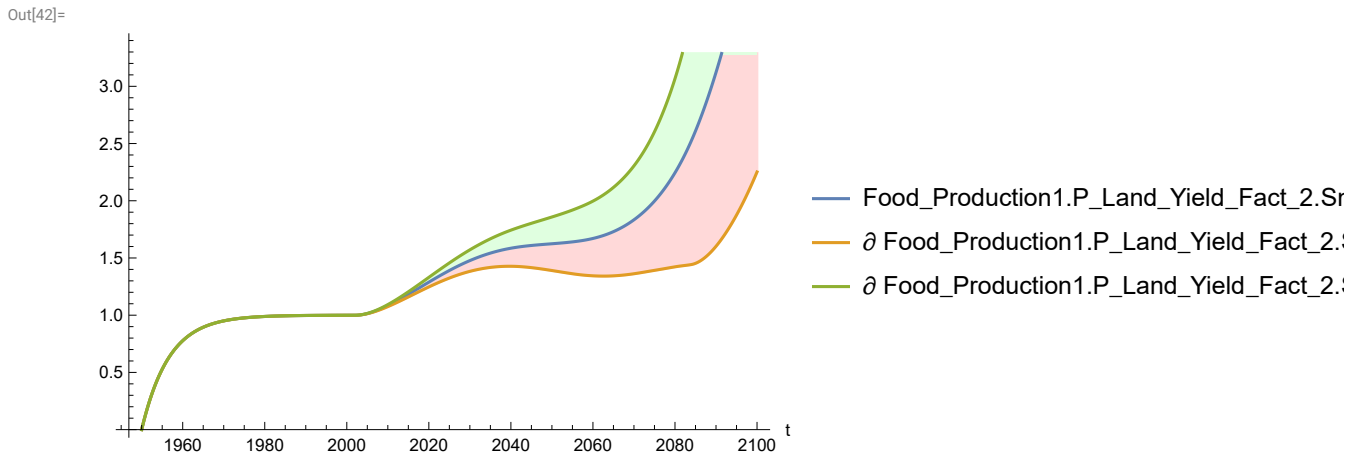
Plot the sensitivity of Food_Production1.P_Land_Yield_Fact_2.SmoothN.Integrator1.y, where N = 1, 2, 3, to variation in **Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals**.

```
In[41]:= SystemModelPlot[simsensdata, {"Food_Production1.P_Land_Yield_Fact_2.Smooth1.Integrator1.y",
"Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[1]", percentvar}]
```

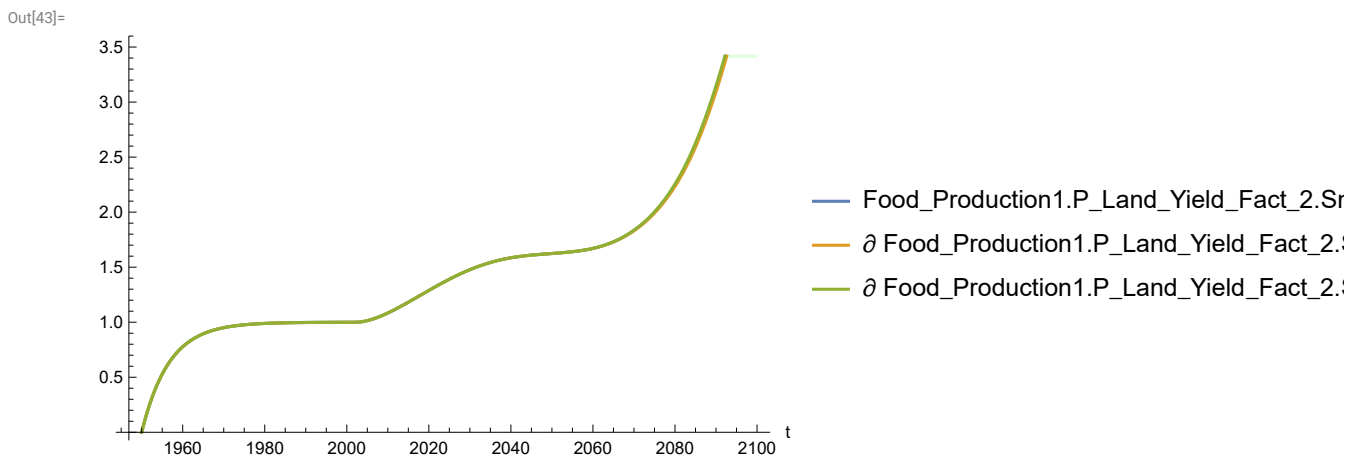
Out[41]=



```
In[42]:= SystemModelPlot[simsensdata,
  {"Food_Production1.P_Land_Yield_Fact_2.Smooth1.Integrator1.y",
   "Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[2]", percentvar}]
```

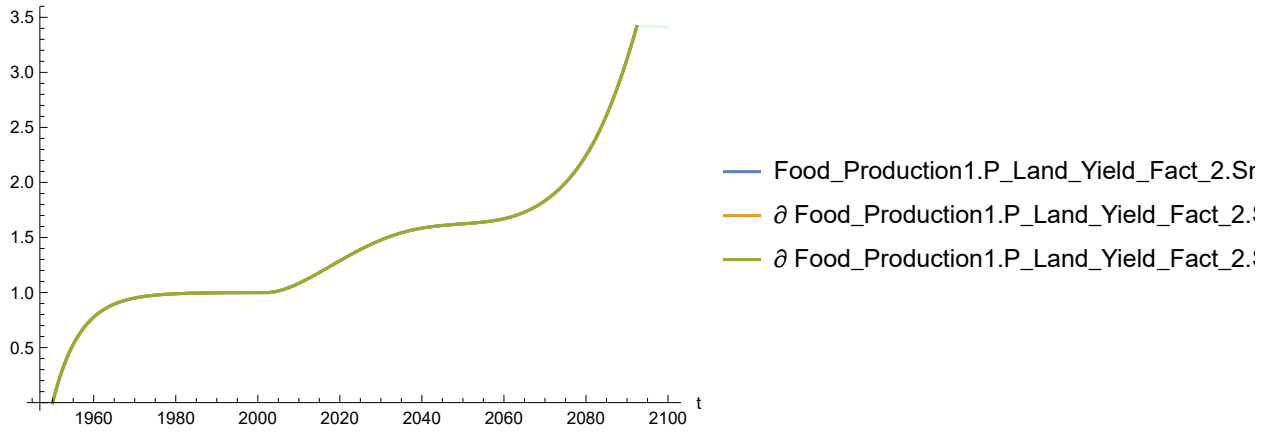


```
In[43]:= SystemModelPlot[simsensdata,
  {"Food_Production1.P_Land_Yield_Fact_2.Smooth1.Integrator1.y",
   "Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[3]", percentvar}]
```



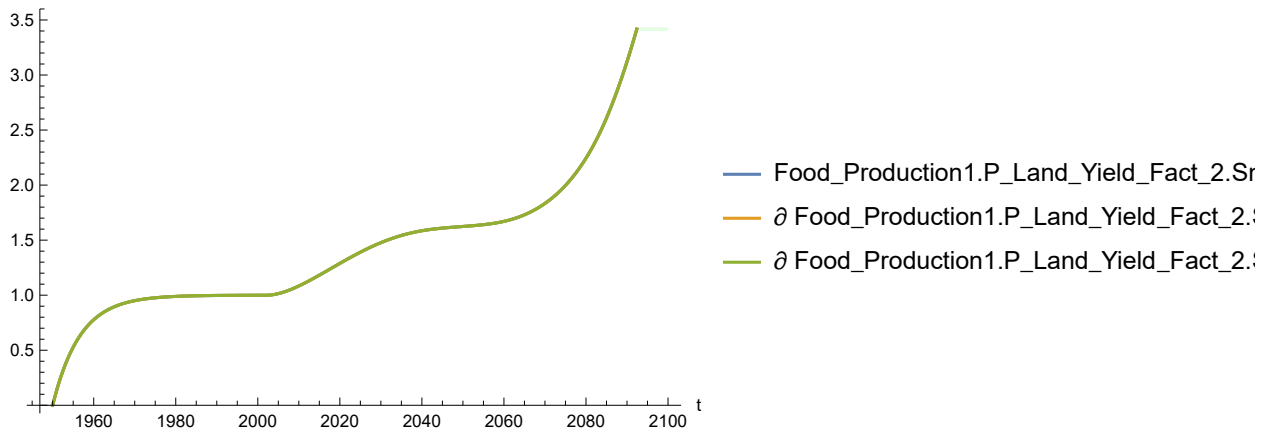
```
In[44]:= SystemModelPlot[simsensdata,
  {"Food_Production1.P_Land_Yield_Fact_2.Smooth1.Integrator1.y",
   "Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[4]", percentvar}]
```

Out[44]=

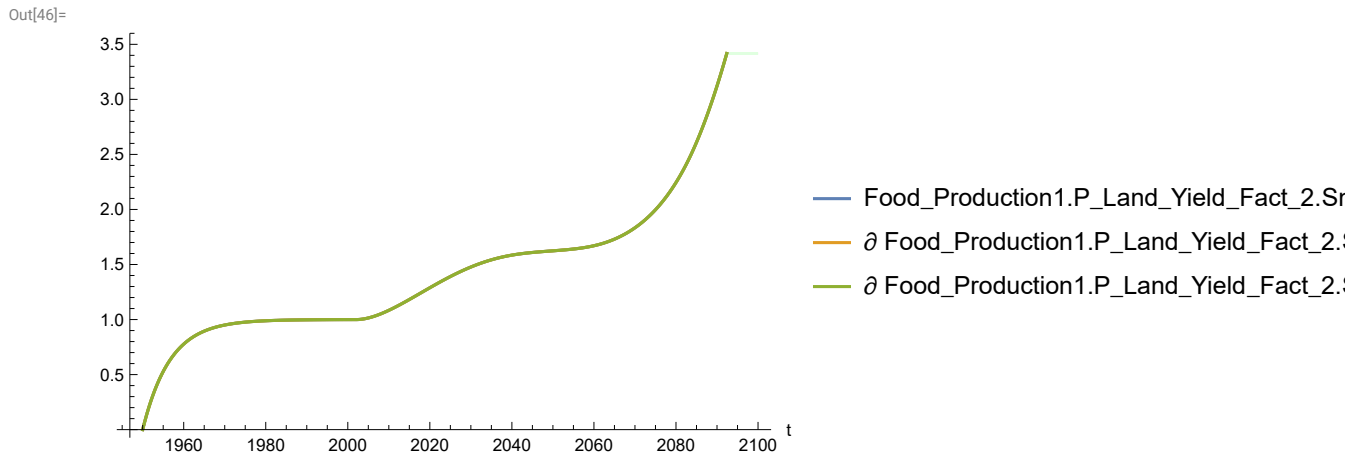


```
In[45]:= SystemModelPlot[simsensdata,
  {"Food_Production1.P_Land_Yield_Fact_2.Smooth1.Integrator1.y",
   "Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[5]", percentvar}]
```

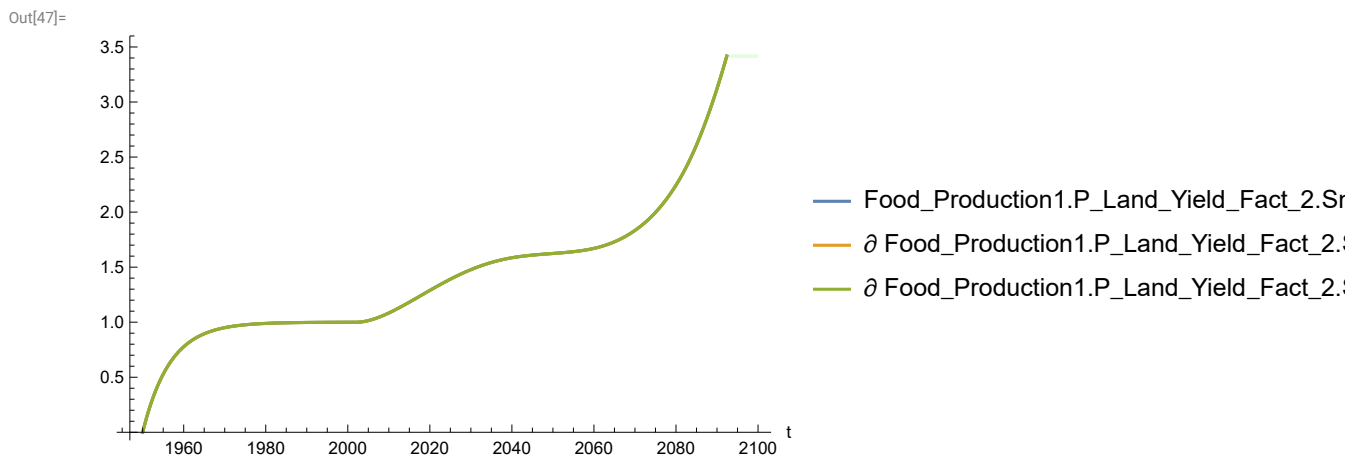
Out[45]=



```
In[46]:= SystemModelPlot[simsensdata,
  {"Food_Production1.P_Land_Yield_Fact_2.Smooth1.Integrator1.y",
   "Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[6]", percentvar}]
```



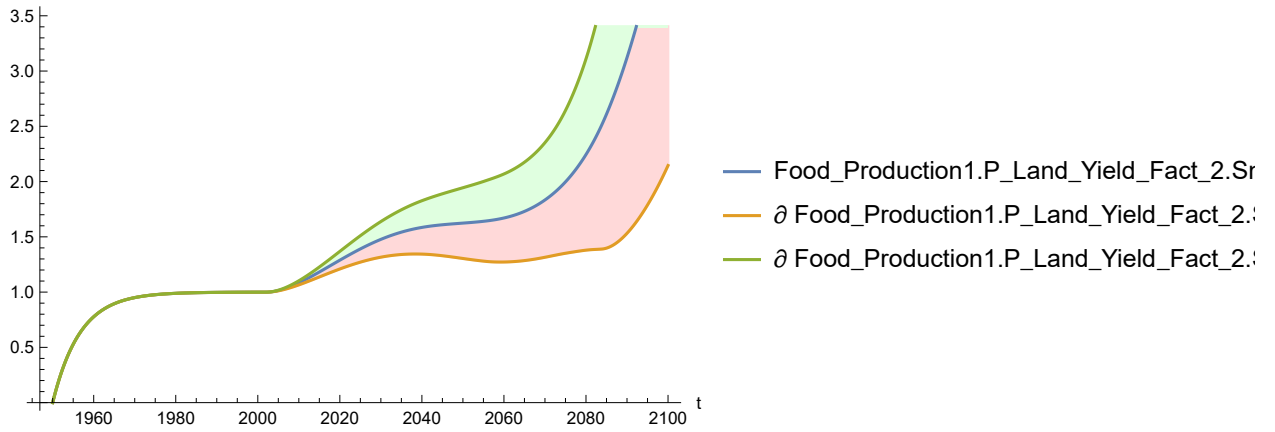
```
In[47]:= SystemModelPlot[simsensdata,
  {"Food_Production1.P_Land_Yield_Fact_2.Smooth1.Integrator1.y",
   "Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[7]", percentvar}]
```



Plot the sensitivity of Food_Production1.P_Land_Yield_Fact_2.Smooth1.Integrator1.y to Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals.

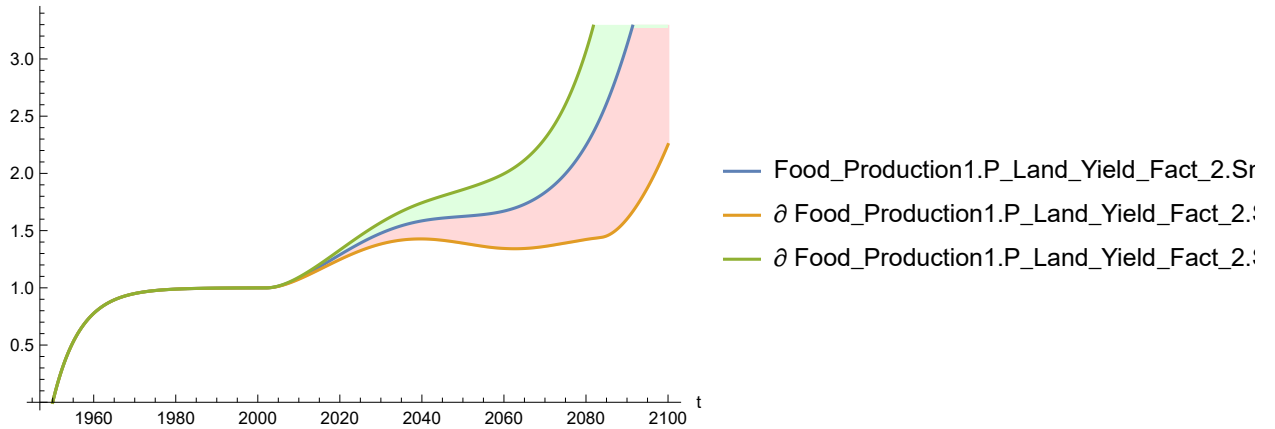

```
In[48]:= SystemModelPlot[simsensdata,
  {"Food_Production1.P_Land_Yield_Fact_2.Smooth1.Integrator1.y",
   "Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[1]", percentvar}]
```

Out[48]=

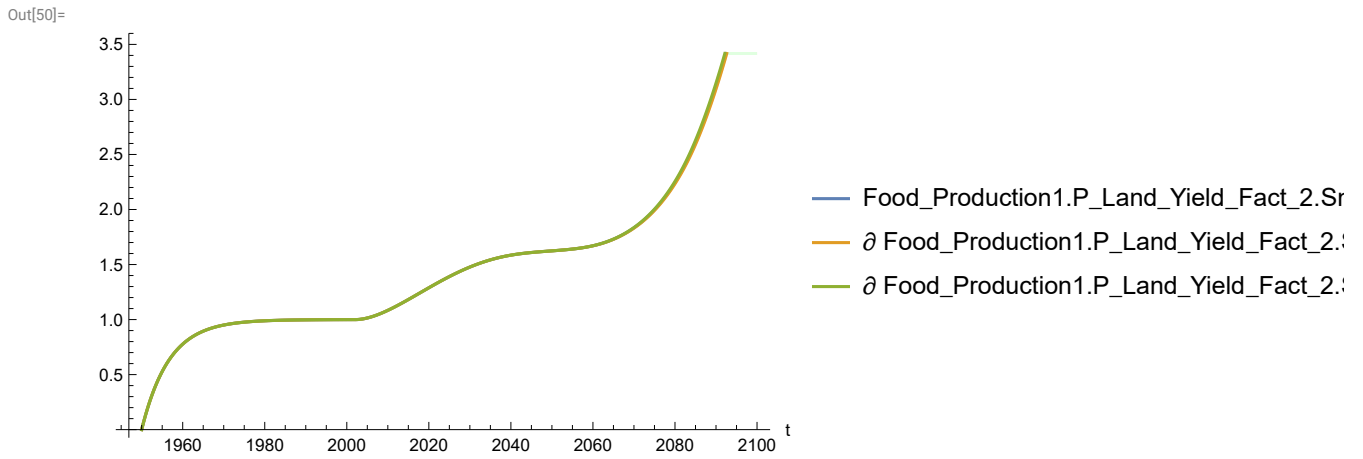


```
In[49]:= SystemModelPlot[simsensdata,
  {"Food_Production1.P_Land_Yield_Fact_2.Smooth1.Integrator1.y",
   "Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[2]", percentvar}]
```

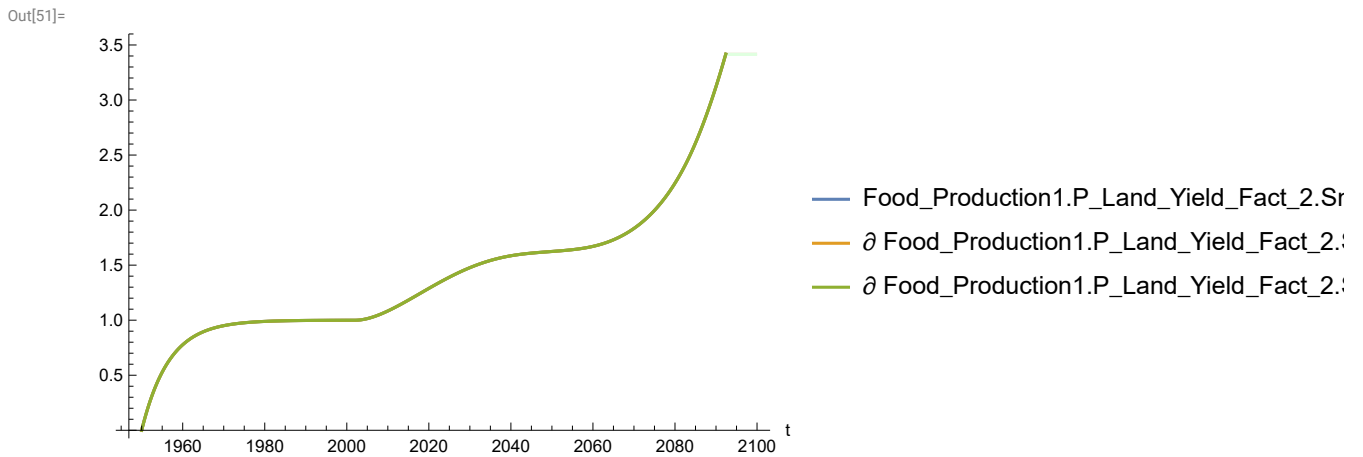
Out[49]=



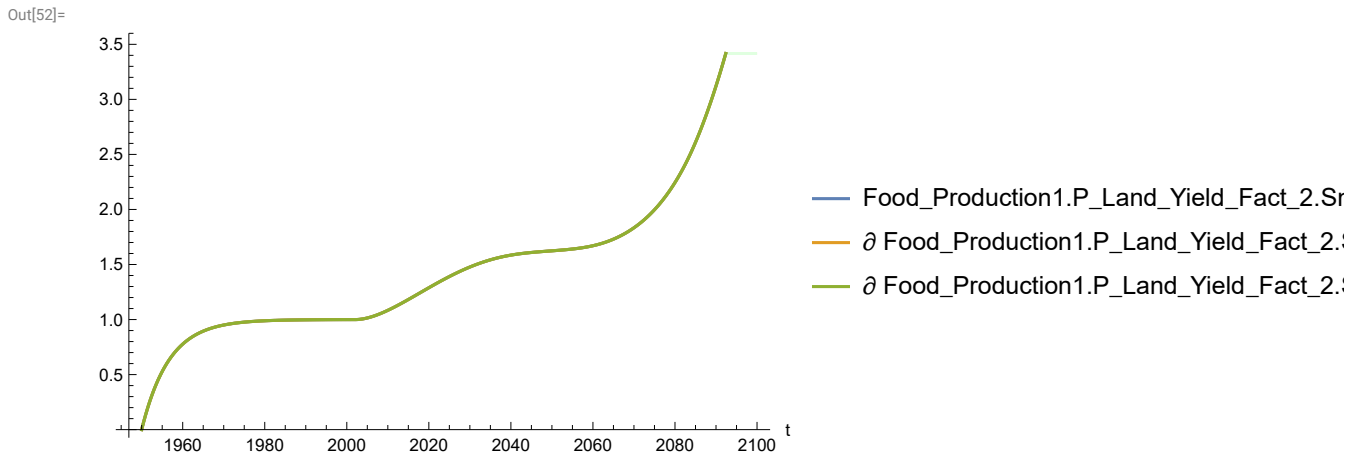
```
In[50]:= SystemModelPlot[simsensdata,
  {"Food_Production1.P_Land_Yield_Fact_2.Smooth1.Integrator1.y",
   "Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[3]", percentvar}]
```



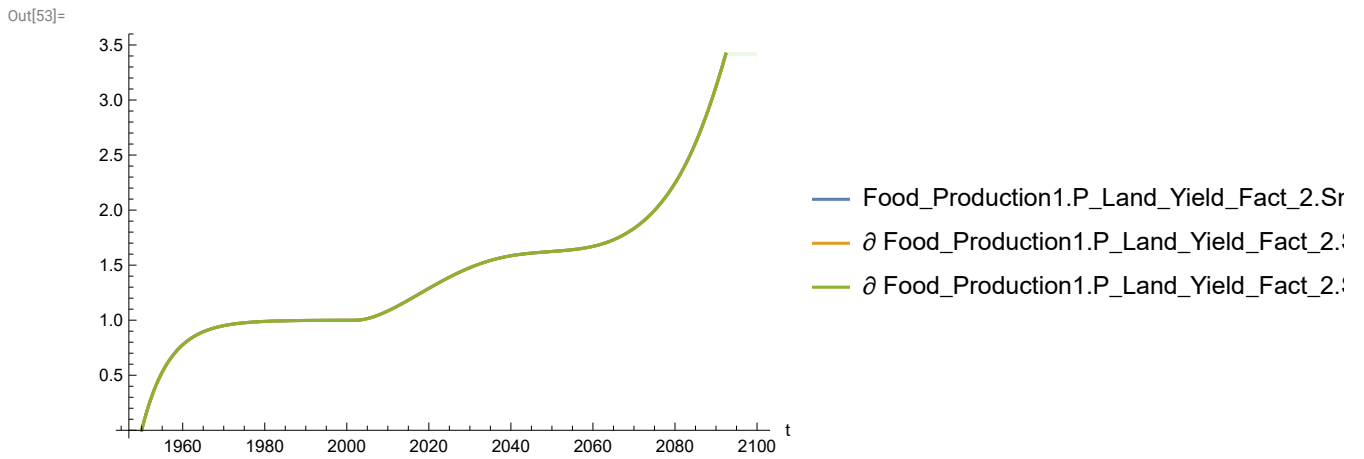
```
In[51]:= SystemModelPlot[simsensdata,
  {"Food_Production1.P_Land_Yield_Fact_2.Smooth1.Integrator1.y",
   "Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[4]", percentvar}]
```



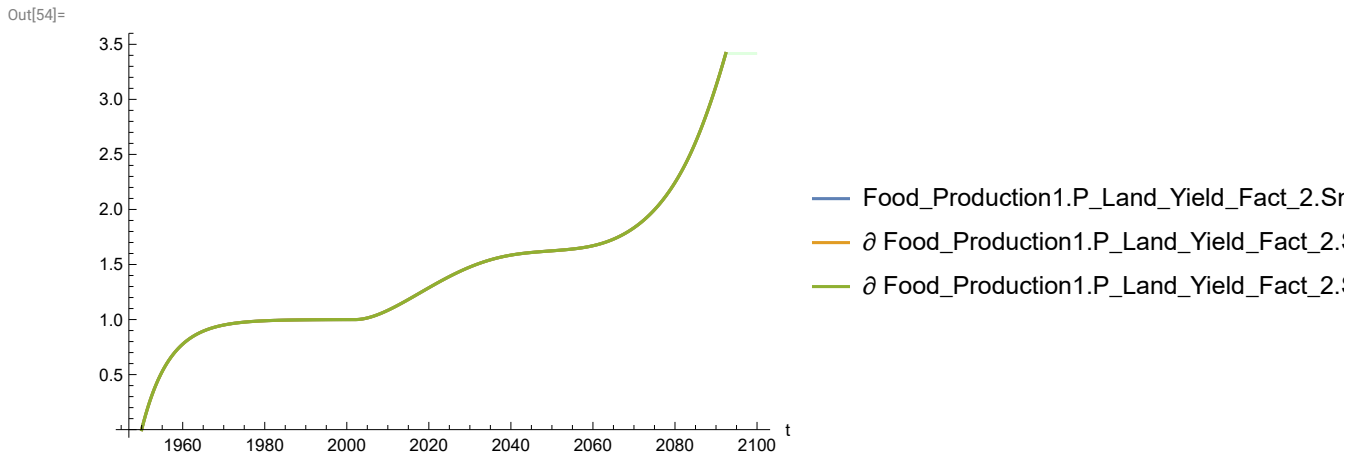
```
In[52]:= SystemModelPlot[simsensdata,
  {"Food_Production1.P_Land_Yield_Fact_2.Smooth1.Integrator1.y",
   "Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[5]", percentvar}]
```



```
In[53]:= SystemModelPlot[simsensdata,
  {"Food_Production1.P_Land_Yield_Fact_2.Smooth1.Integrator1.y",
   "Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[6]", percentvar}]
```

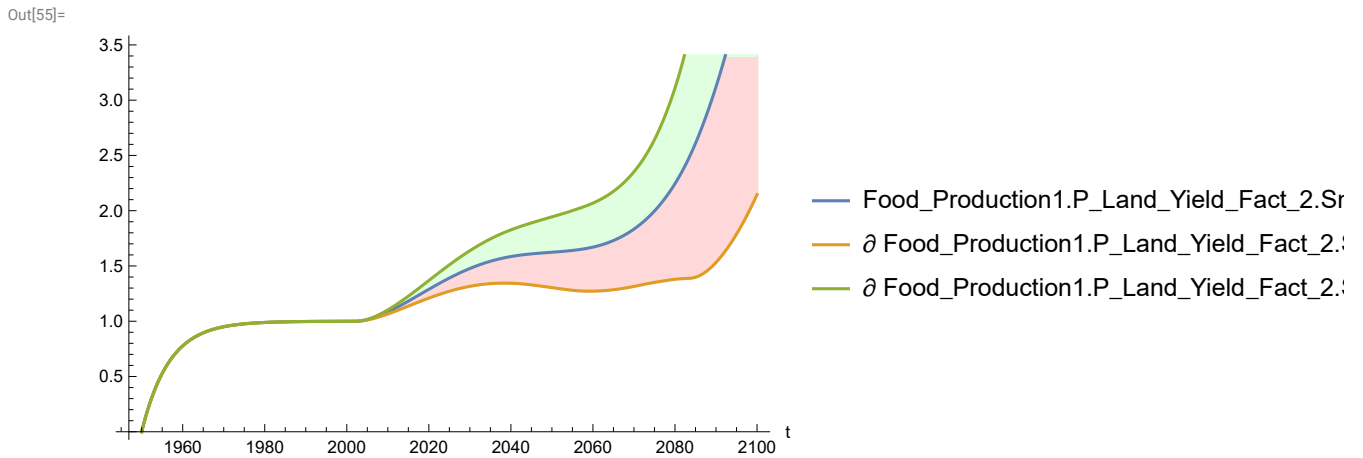


```
In[54]:= SystemModelPlot[simsensdata,
  {"Food_Production1.P_Land_Yield_Fact_2.Smooth1.Integrator1.y",
   "Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[7]", percentvar}]
```



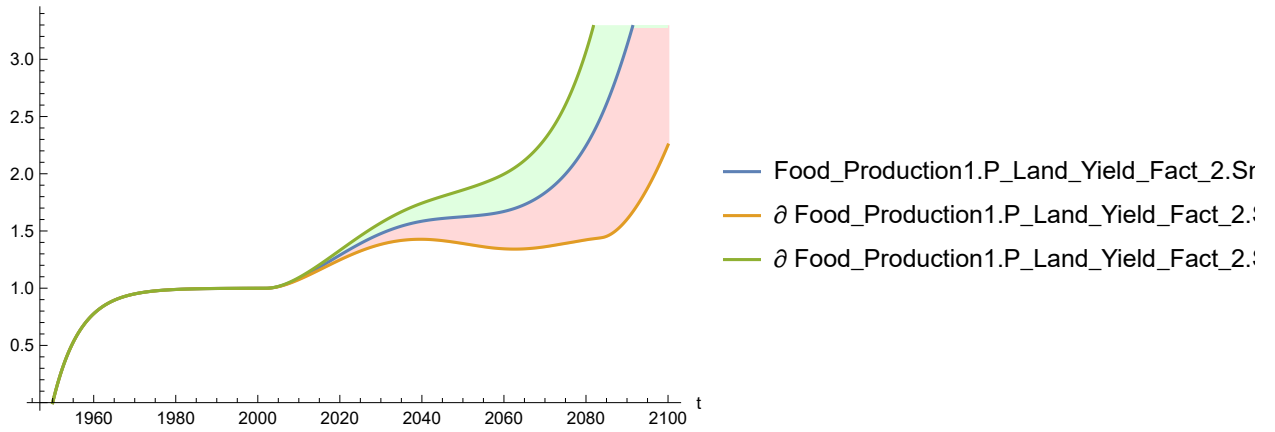
Plot the sensitivity of Food_Production1.P_Land_Yield_Fact_2.Smooth1.Integrator1.y to Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals.

```
In[55]:= SystemModelPlot[simsensdata,
  {"Food_Production1.P_Land_Yield_Fact_2.Smooth1.Integrator1.y",
   "Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[1]", percentvar}]
```



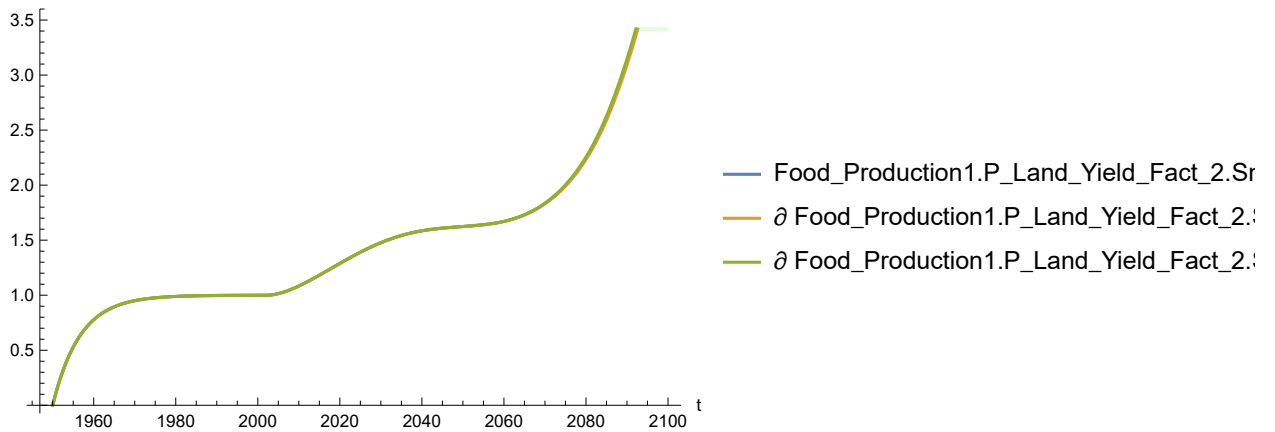
```
In[56]:= SystemModelPlot[simsensdata,
  {"Food_Production1.P_Land_Yield_Fact_2.Smooth1.Integrator1.y",
   "Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[2]", percentvar}]
```

Out[56]=

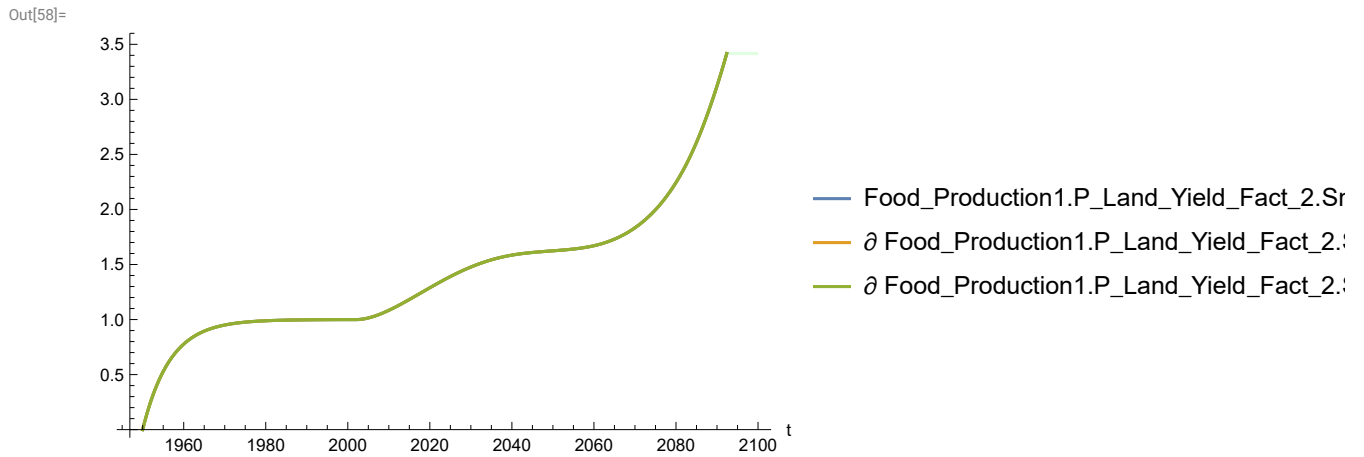


```
In[57]:= SystemModelPlot[simsensdata,
  {"Food_Production1.P_Land_Yield_Fact_2.Smooth1.Integrator1.y",
   "Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[3]", percentvar}]
```

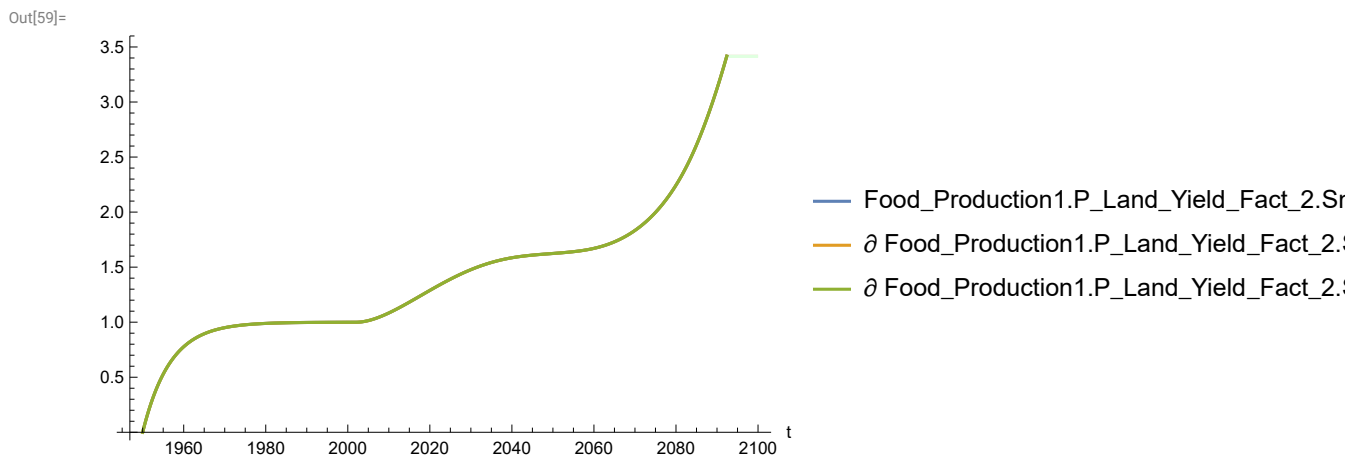
Out[57]=



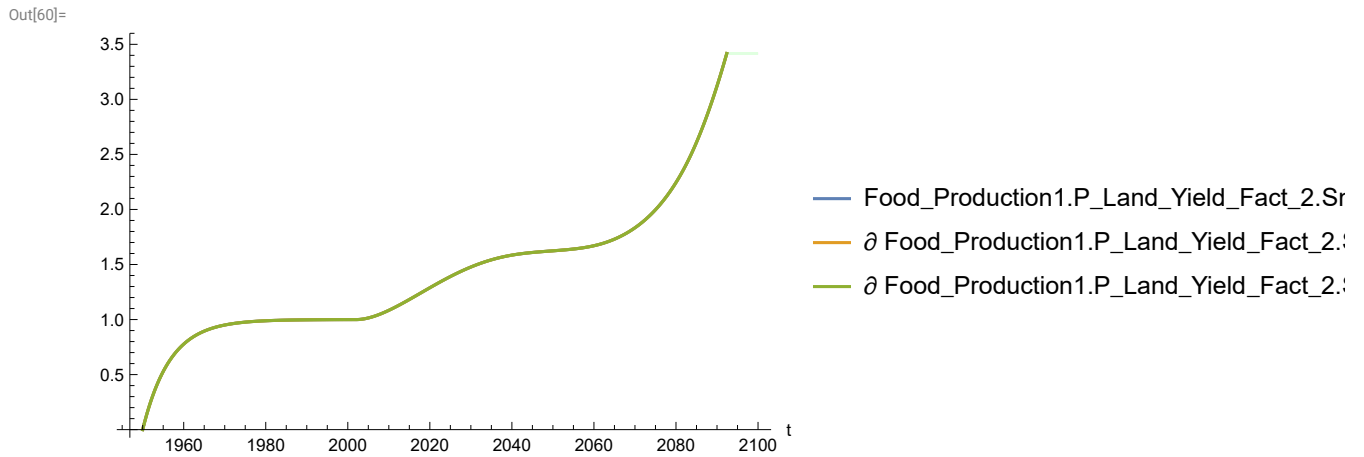
```
In[58]:= SystemModelPlot[simsensdata,
  {"Food_Production1.P_Land_Yield_Fact_2.Smooth1.Integrator1.y",
   "Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[4]", percentvar}]
```



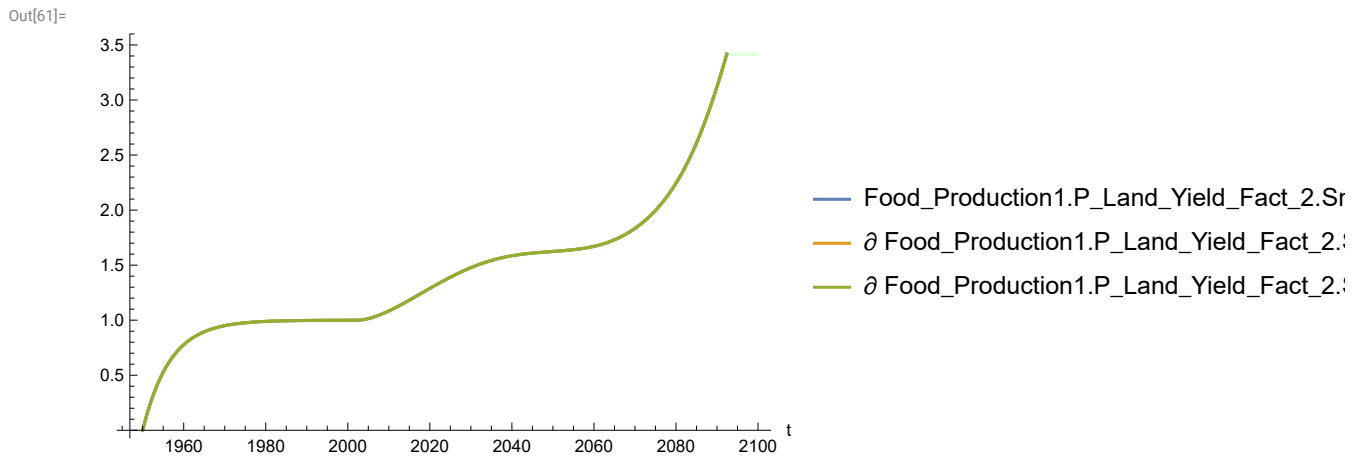
```
In[59]:= SystemModelPlot[simsensdata,
  {"Food_Production1.P_Land_Yield_Fact_2.Smooth1.Integrator1.y",
   "Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[5]", percentvar}]
```



```
In[60]:= SystemModelPlot[simsensdata,
  {"Food_Production1.P_Land_Yield_Fact_2.Smooth1.Integrator1.y",
   "Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[6]", percentvar}]
```

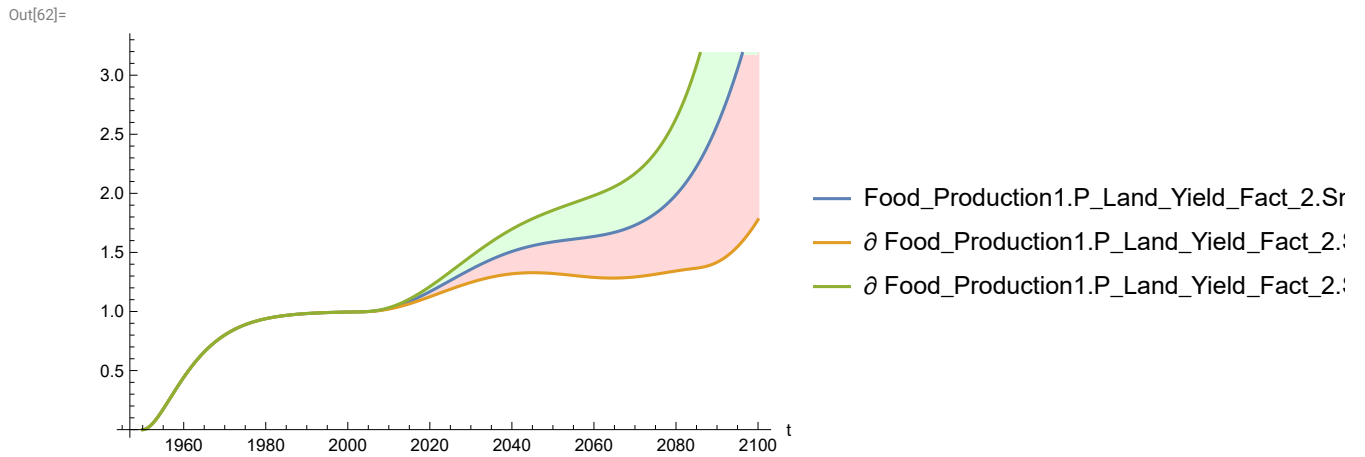


```
In[61]:= SystemModelPlot[simsensdata,
  {"Food_Production1.P_Land_Yield_Fact_2.Smooth1.Integrator1.y",
   "Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[7]", percentvar}]
```

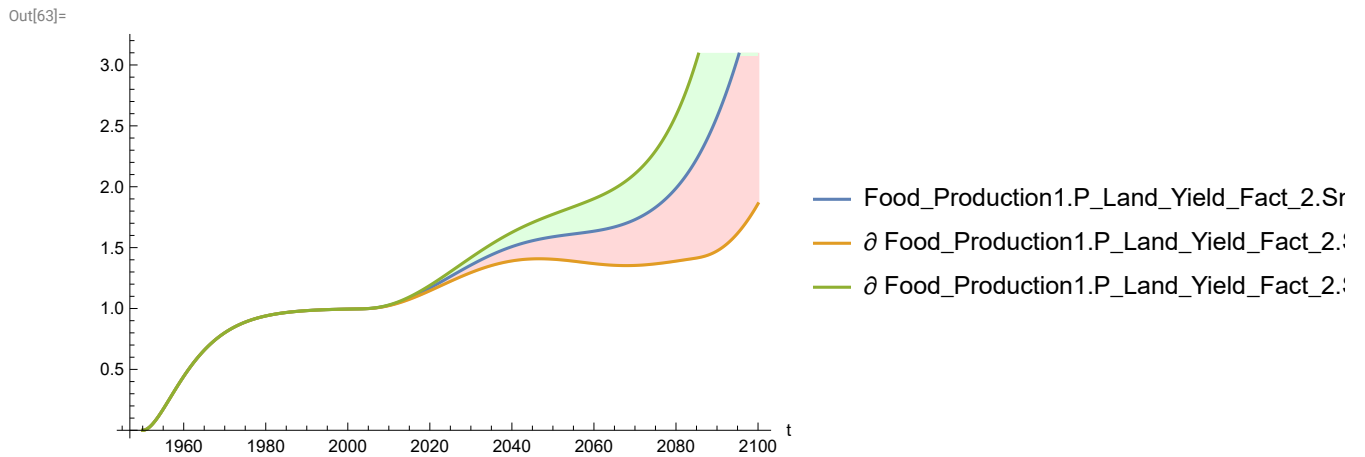


Plot the sensitivity of Food_Production1.P_Land_Yield_Fact_2.Smooth2.Integrator1.y to Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals.

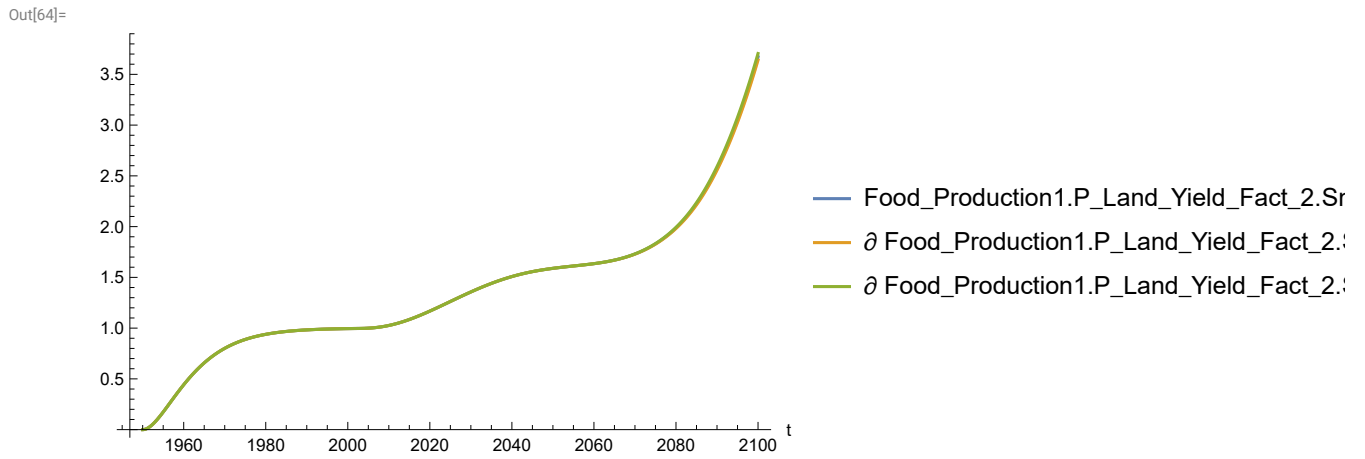
```
In[62]:= SystemModelPlot[simsensdata,
  {"Food_Production1.P_Land_Yield_Fact_2.Smooth2.Integrator1.y",
   "Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[1]", percentvar}]
```



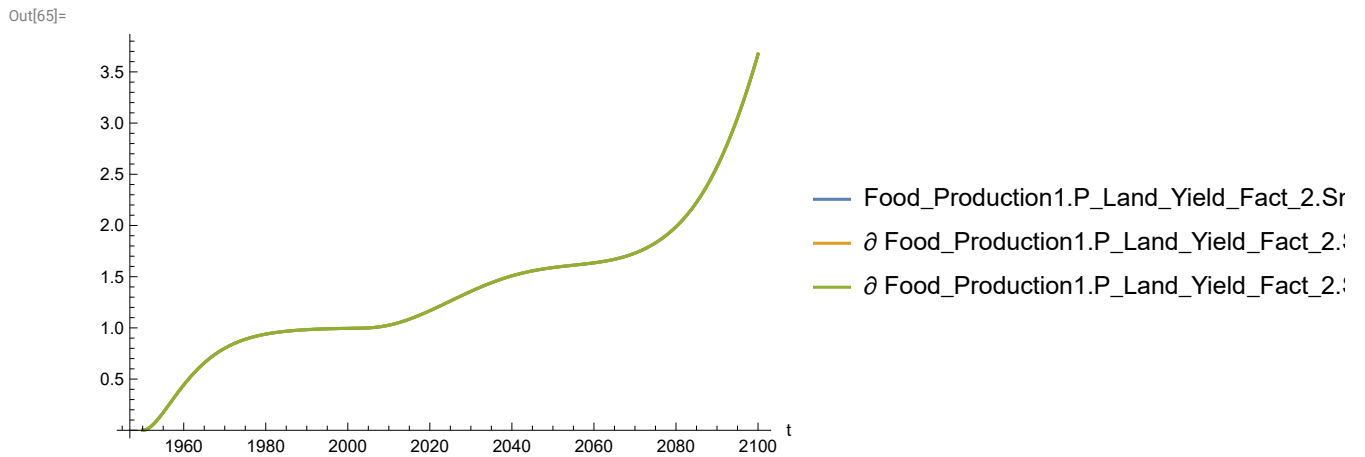
```
In[63]:= SystemModelPlot[simsensdata,
  {"Food_Production1.P_Land_Yield_Fact_2.Smooth2.Integrator1.y",
   "Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[2]", percentvar}]
```



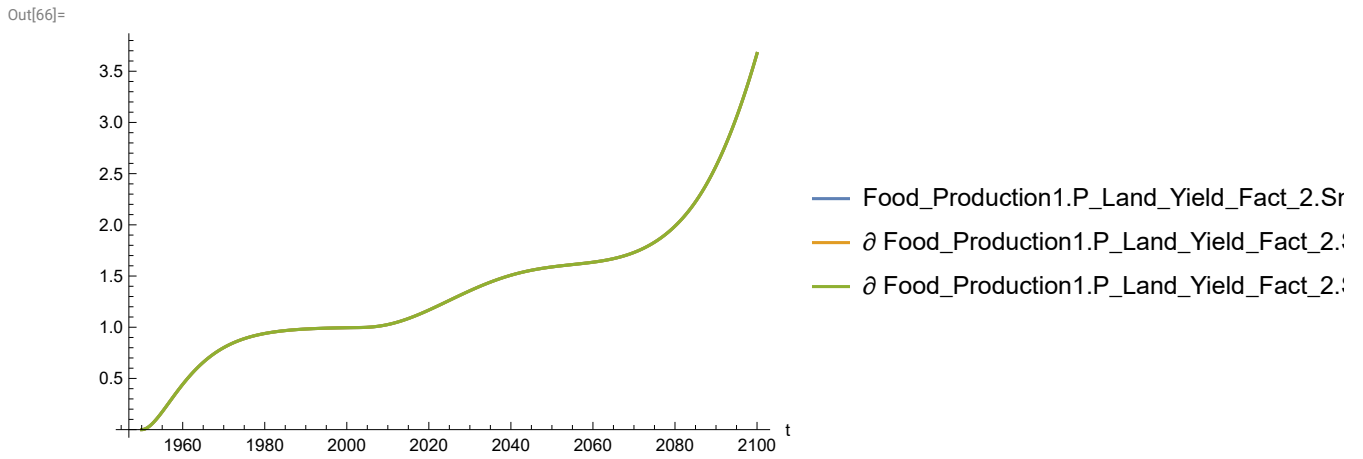

```
In[64]:= SystemModelPlot[simsensdata,
  {"Food_Production1.P_Land_Yield_Fact_2.Smooth2.Integrator1.y",
   "Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[3]", percentvar}]
```



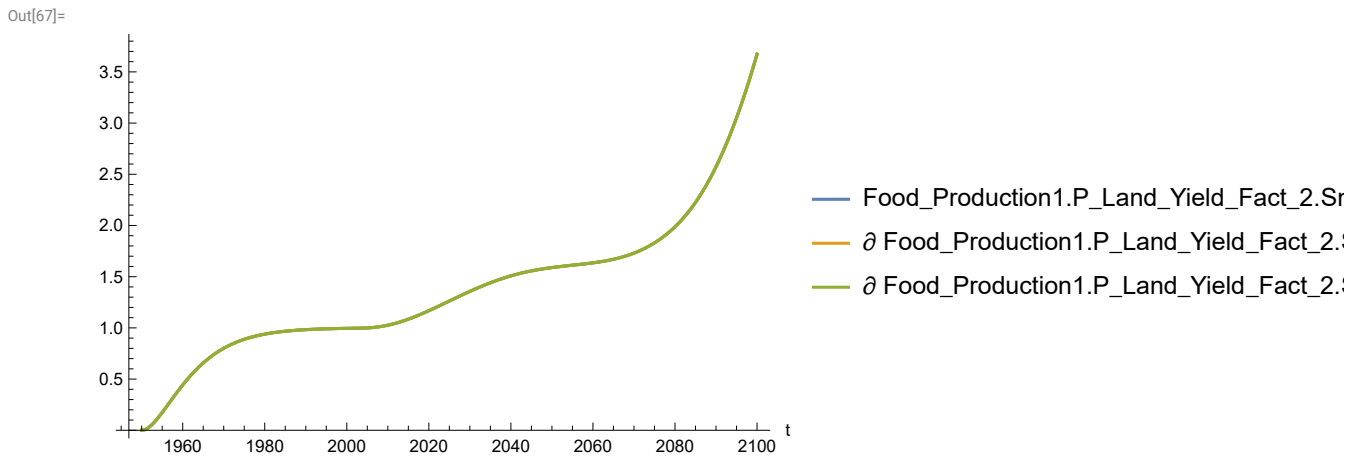
```
In[65]:= SystemModelPlot[simsensdata,
  {"Food_Production1.P_Land_Yield_Fact_2.Smooth2.Integrator1.y",
   "Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[4]", percentvar}]
```



```
In[66]:= SystemModelPlot[simsensdata,
  {"Food_Production1.P_Land_Yield_Fact_2.Smooth2.Integrator1.y",
   "Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[5]", percentvar}]
```

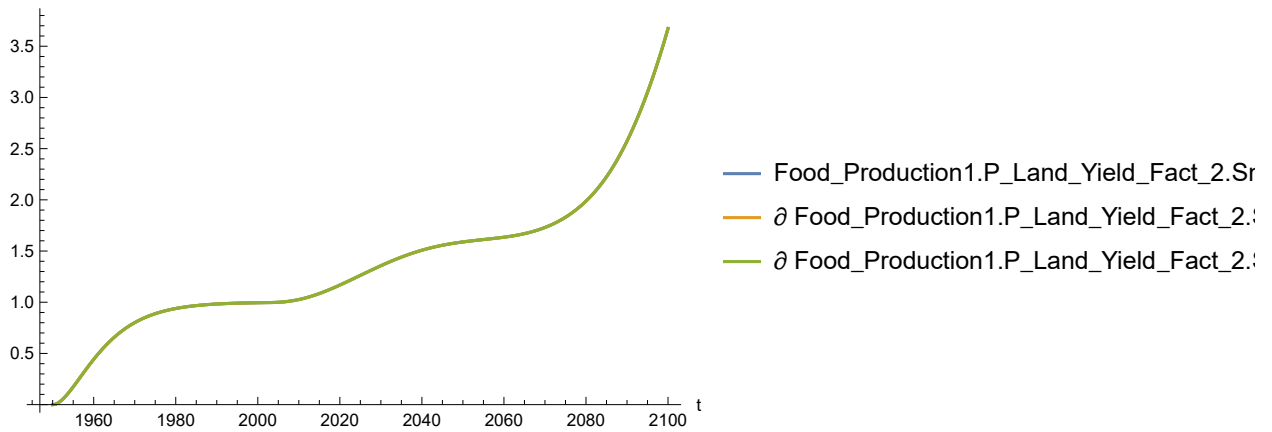


```
In[67]:= SystemModelPlot[simsensdata,
  {"Food_Production1.P_Land_Yield_Fact_2.Smooth2.Integrator1.y",
   "Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[6]", percentvar}]
```



```
In[68]:= SystemModelPlot[simsensdata,
  {"Food_Production1.P_Land_Yield_Fact_2.Smooth2.Integrator1.y",
   "Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[7]", percentvar}]
```

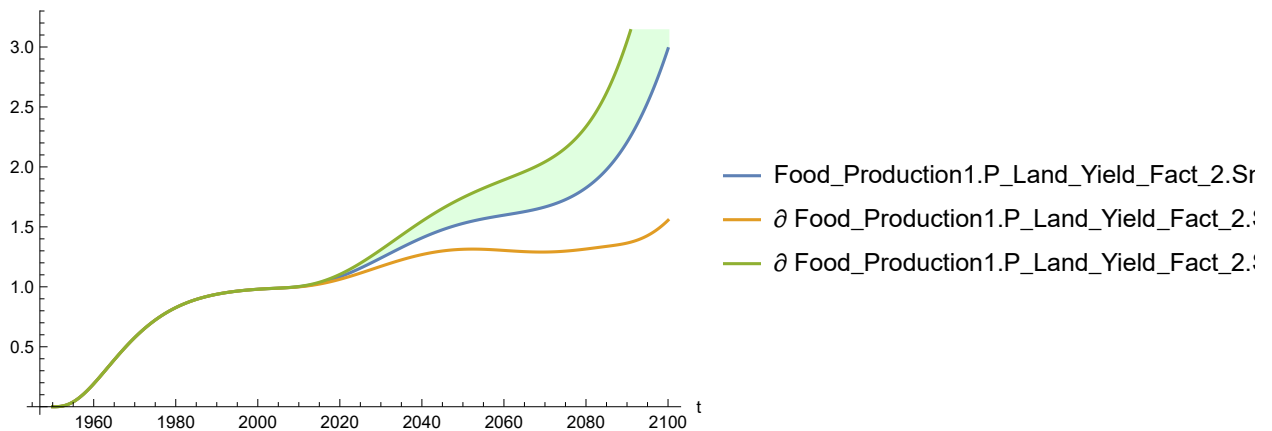
Out[68]=



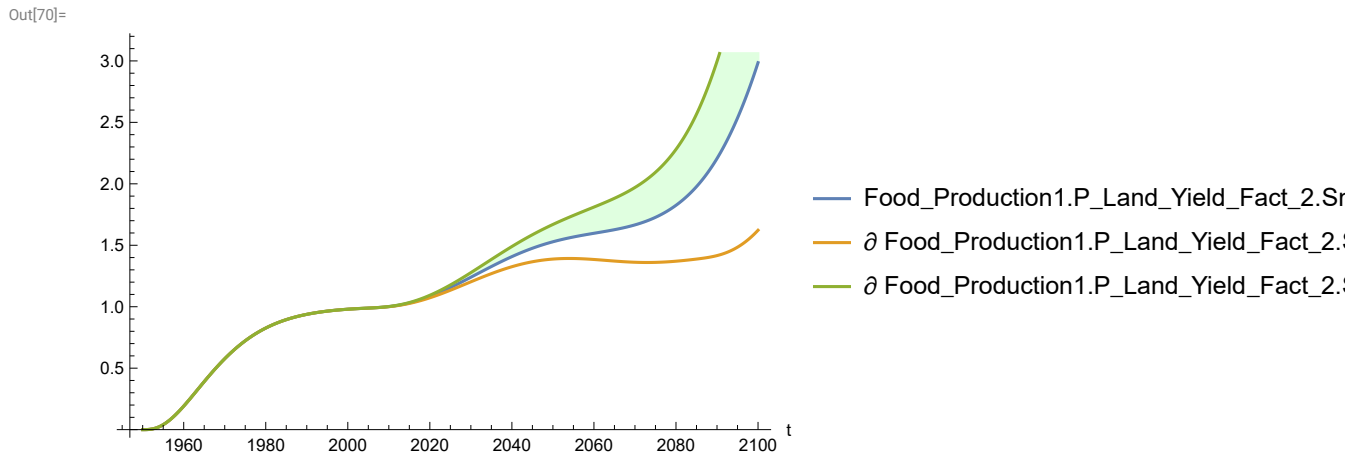
Plot sensitivity of **Food_Production1.P_Land_Yield_Fact_2.Smooth3.Integrator1.y** to Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals

```
In[69]:= SystemModelPlot[simsensdata,
  {"Food_Production1.P_Land_Yield_Fact_2.Smooth3.Integrator1.y",
   "Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[1]", percentvar}]
```

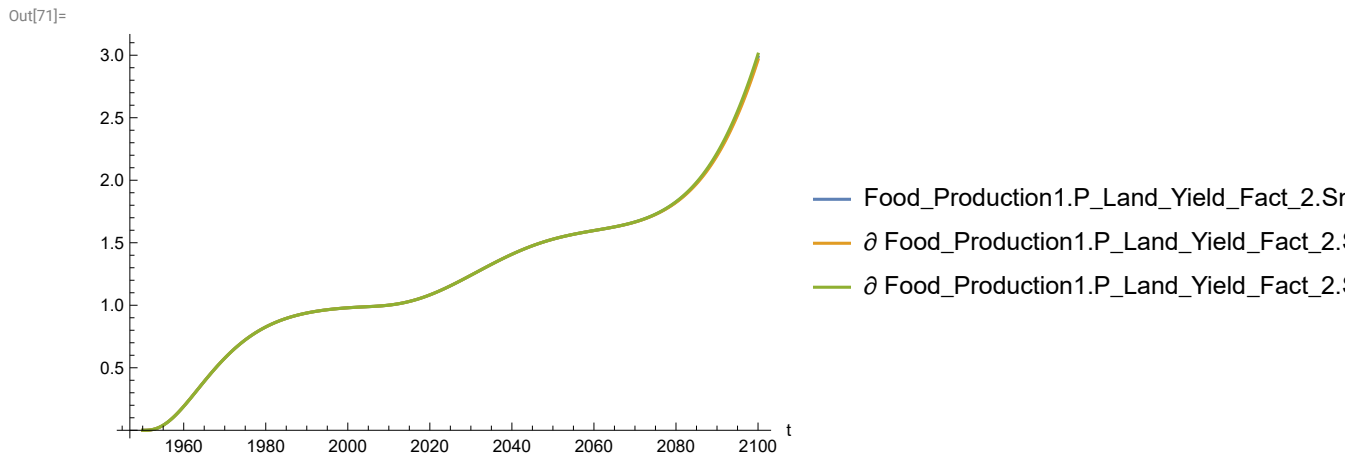
Out[69]=



```
In[70]:= SystemModelPlot[simsensdata,
  {"Food_Production1.P_Land_Yield_Fact_2.Smooth3.Integrator1.y",
   "Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[2]", percentvar}]
```

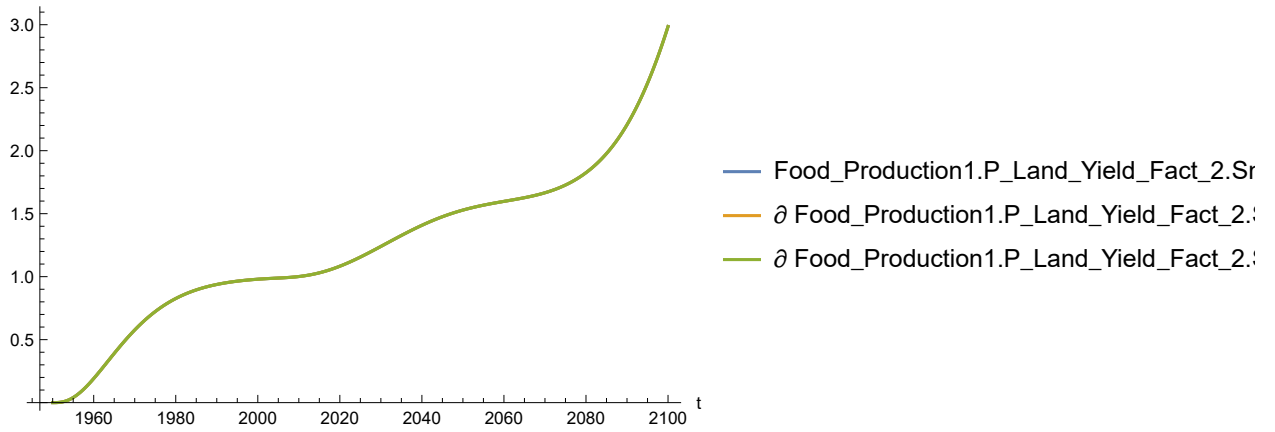


```
In[71]:= SystemModelPlot[simsensdata,
  {"Food_Production1.P_Land_Yield_Fact_2.Smooth3.Integrator1.y",
   "Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[3]", percentvar}]
```



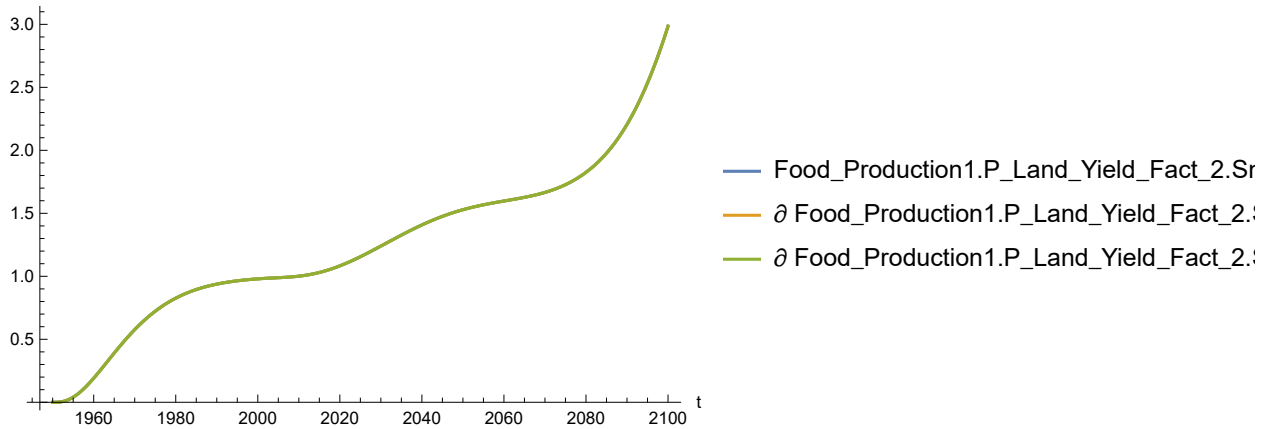
```
In[72]:= SystemModelPlot[simsensdata,
  {"Food_Production1.P_Land_Yield_Fact_2.Smooth3.Integrator1.y",
   "Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[4]", percentvar}]
```

Out[72]=

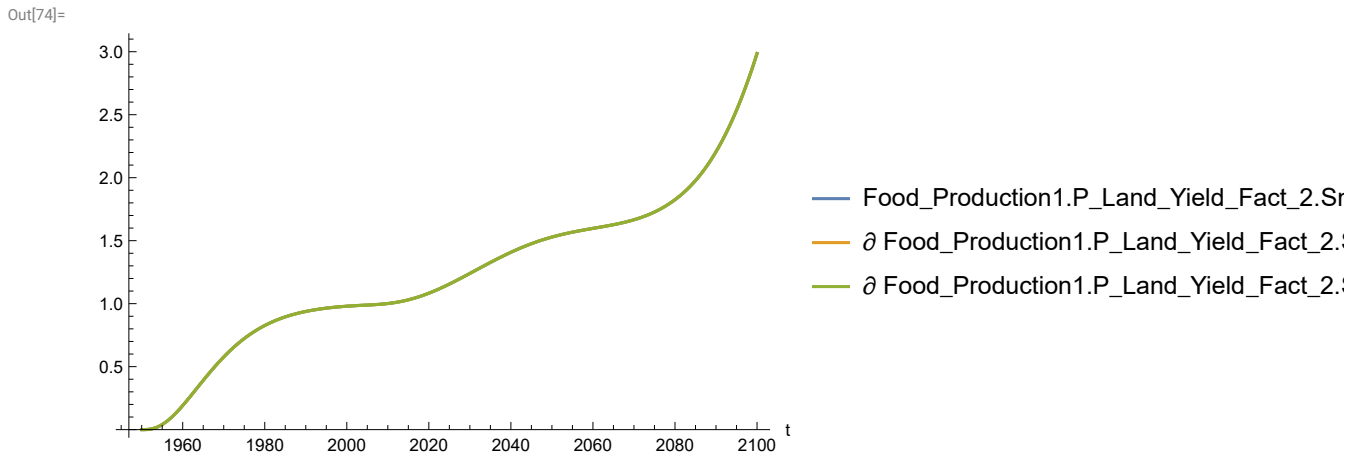


```
In[73]:= SystemModelPlot[simsensdata,
  {"Food_Production1.P_Land_Yield_Fact_2.Smooth3.Integrator1.y",
   "Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[5]", percentvar}]
```

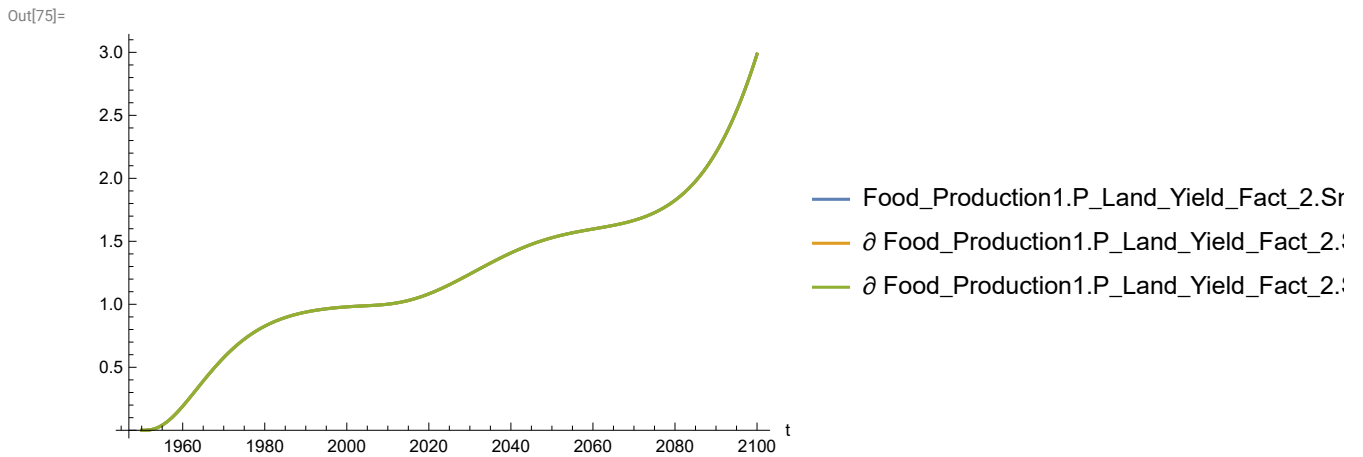
Out[73]=



```
In[74]:= SystemModelPlot[simsensdata,
  {"Food_Production1.P_Land_Yield_Fact_2.Smooth3.Integrator1.y",
   "Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[6]", percentvar}]
```



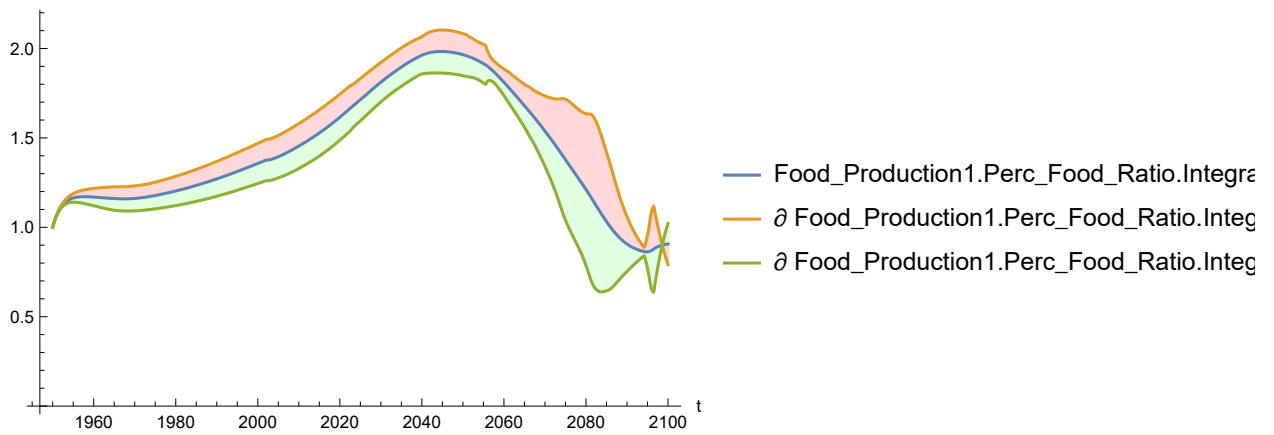
```
In[75]:= SystemModelPlot[simsensdata,
  {"Food_Production1.P_Land_Yield_Fact_2.Smooth3.Integrator1.y",
   "Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[7]", percentvar}]
```



Plot sensitivity of **Food_Production1.Perc_Food_Ratio.Integrator1.y** to **Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals**

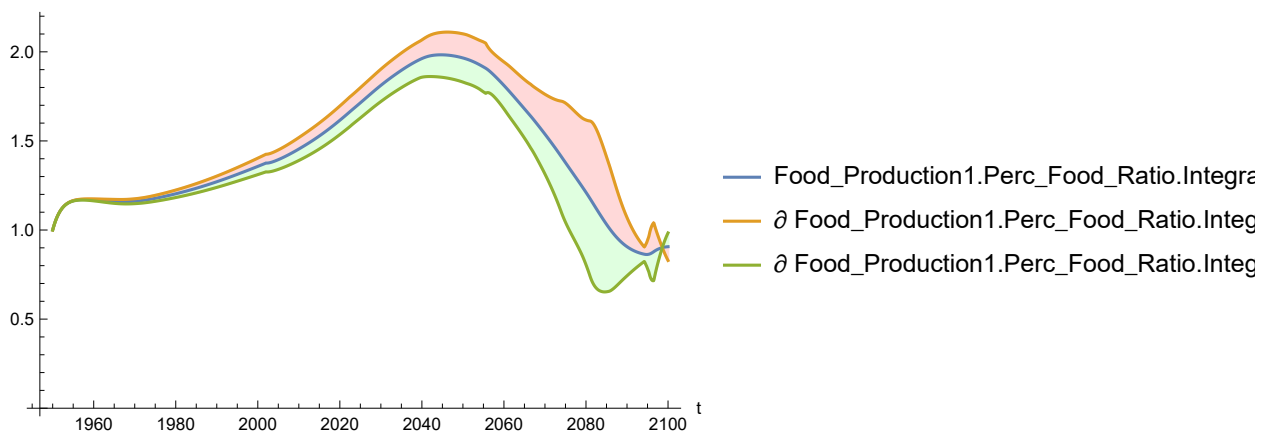
```
In[76]:= SystemModelPlot[simsensdata, {"Food_Production1.Perc_Food_Ratio.Integrator1.y",
"Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[1]", percentvar}]
```

Out[76]=



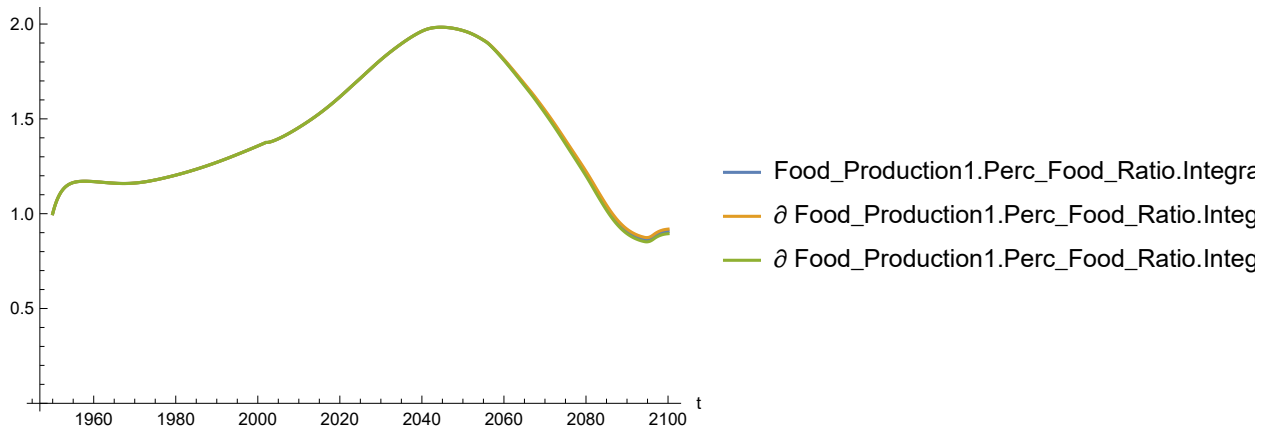
```
In[77]:= SystemModelPlot[simsensdata, {"Food_Production1.Perc_Food_Ratio.Integrator1.y",
"Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[2]", percentvar}]
```

Out[77]=



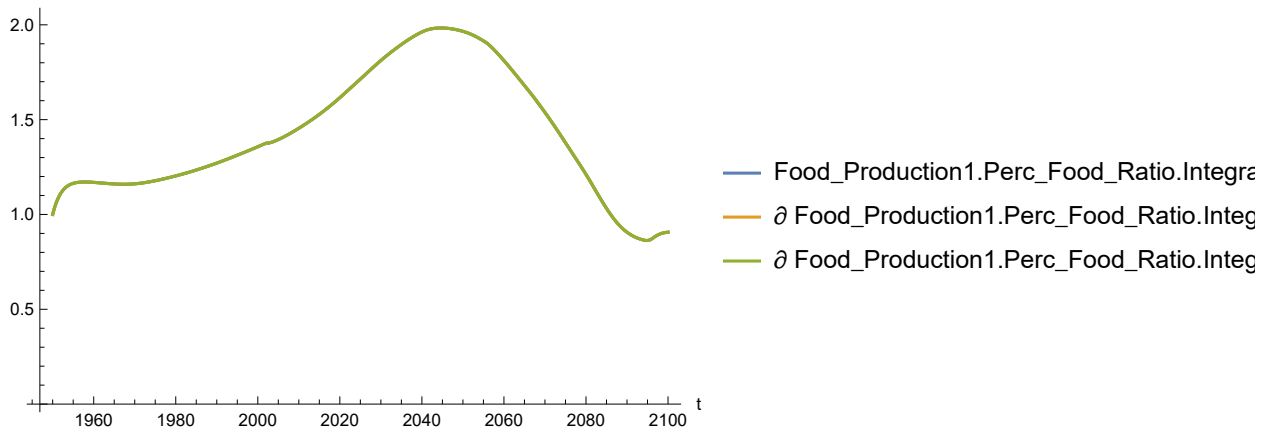
```
In[78]:= SystemModelPlot[simsensdata, {"Food_Production1.Perc_Food_Ratio.Integrator1.y",
"Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[3]", percentvar}]
```

Out[78]=



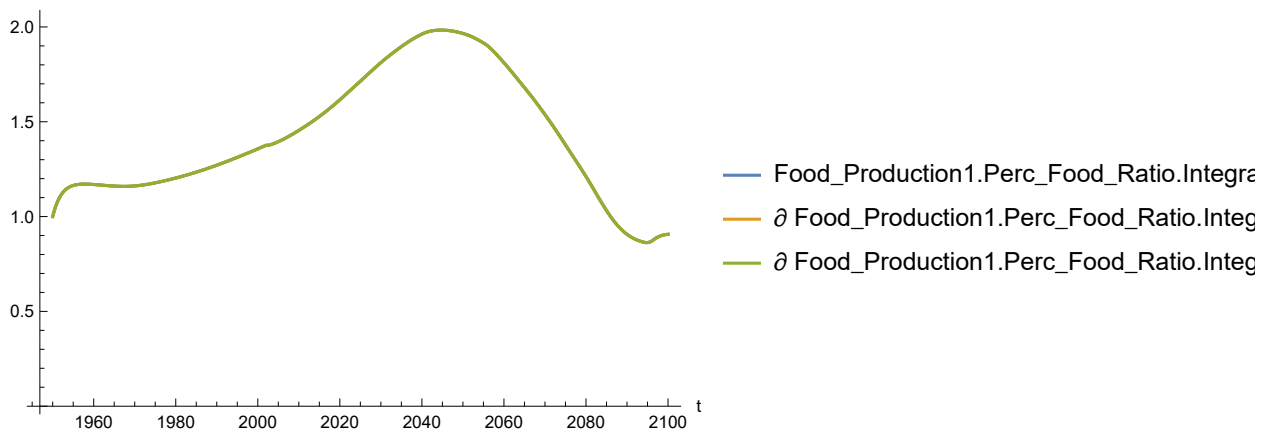
```
In[79]:= SystemModelPlot[simsensdata, {"Food_Production1.Perc_Food_Ratio.Integrator1.y",
"Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[4]", percentvar}]
```

Out[79]=



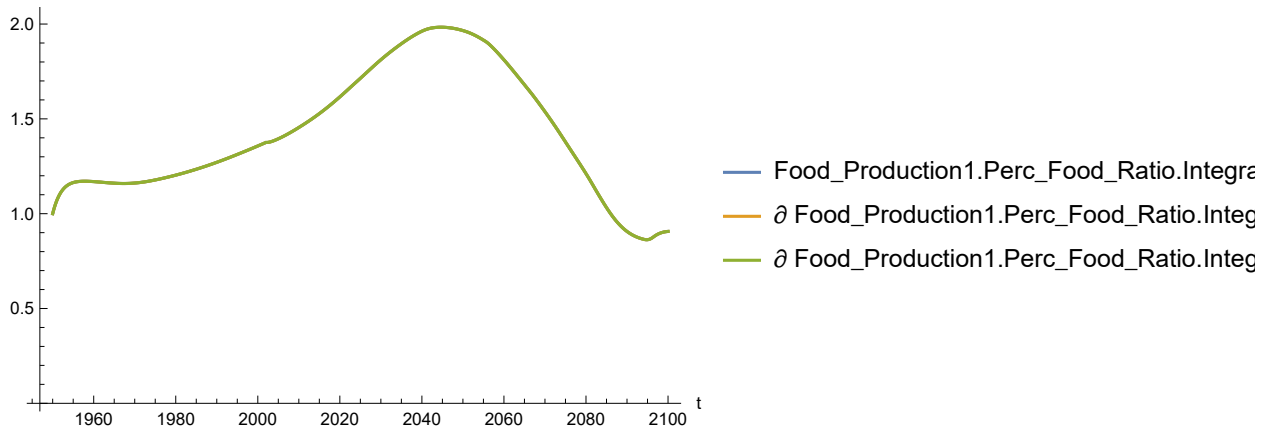
```
In[80]:= SystemModelPlot[simsensdata, {"Food_Production1.Perc_Food_Ratio.Integrator1.y",
"Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[5]", percentvar}]
```

Out[80]=



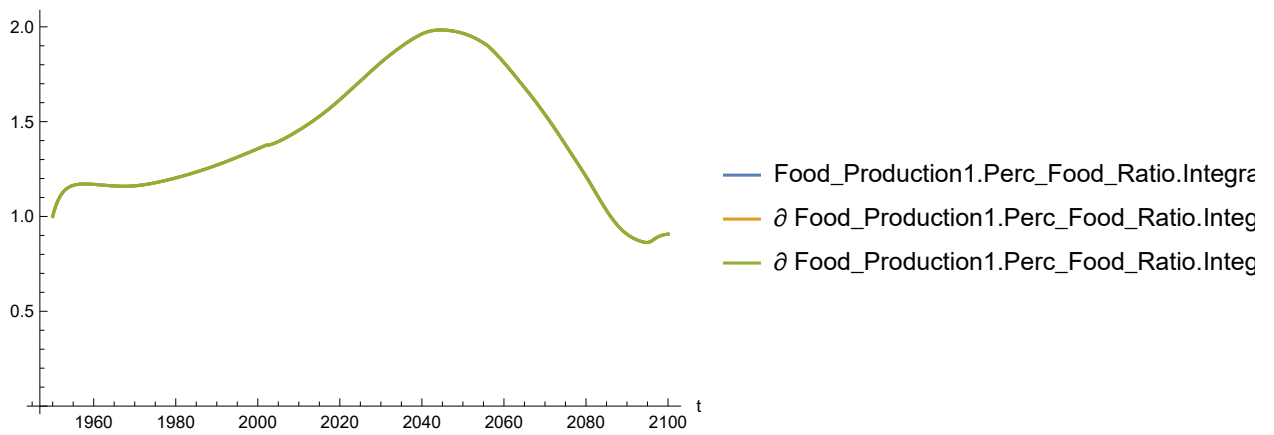
```
In[81]:= SystemModelPlot[simsensdata, {"Food_Production1.Perc_Food_Ratio.Integrator1.y",
"Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[6]", percentvar}]
```

Out[81]=




```
In[82]:= SystemModelPlot[simsensdata, {"Food_Production1.Perc_Food_Ratio.Integrator1.y",
"Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[7]", percentvar}]
```

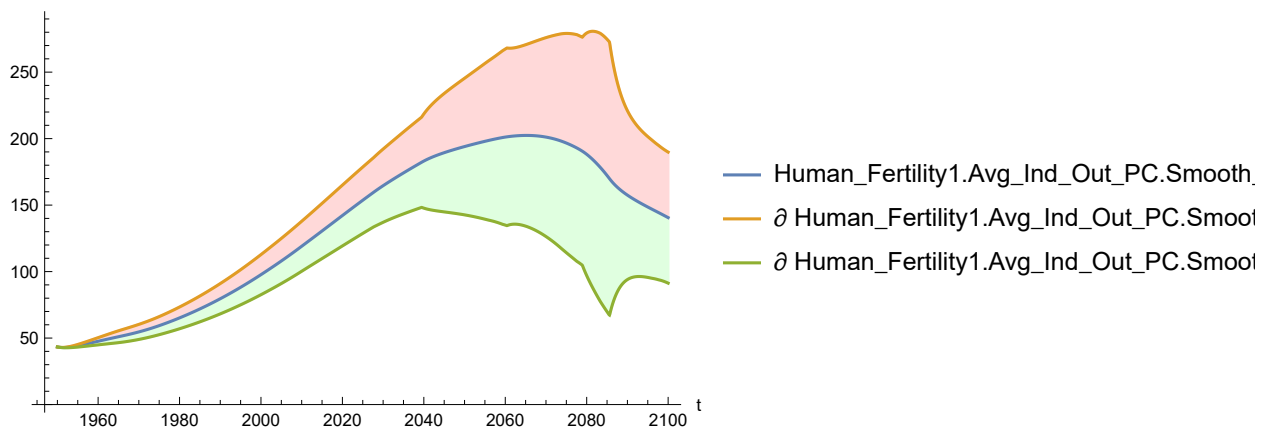
Out[82]=



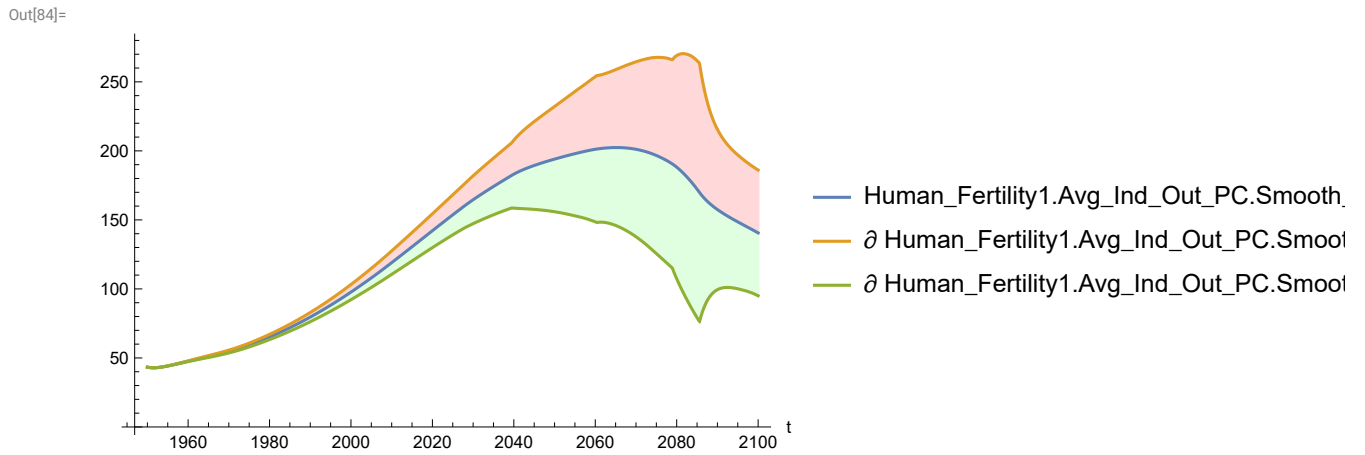
Plot the sensitivity of `Human_Fertility1.Avg_Ind_Out_PC.Smooth_of_Input.Integrator1.y` to `Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals`.

```
In[83]:= SystemModelPlot[simsensdata,
{"Human_Fertility1.Avg_Ind_Out_PC.Smooth_of_Input.Integrator1.y",
"Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[1]", percentvar}]
```

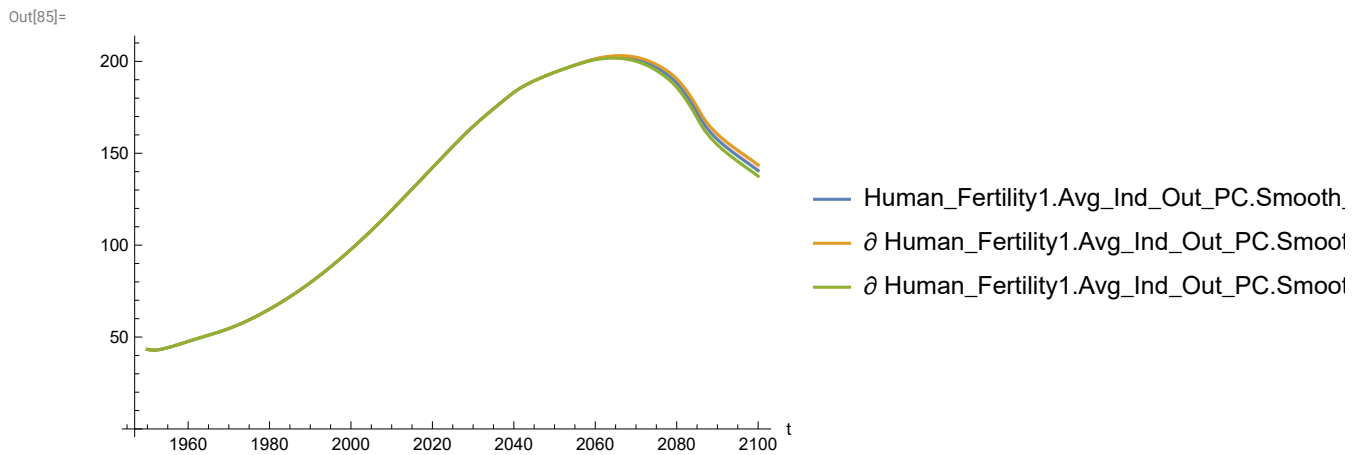
Out[83]=



```
In[84]:= SystemModelPlot[simsensdata,
  {"Human_Fertility1.Avg_Ind_Out_PC.Smooth_of_Input.Integrator1.y",
   "Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[2]", percentvar}]
```

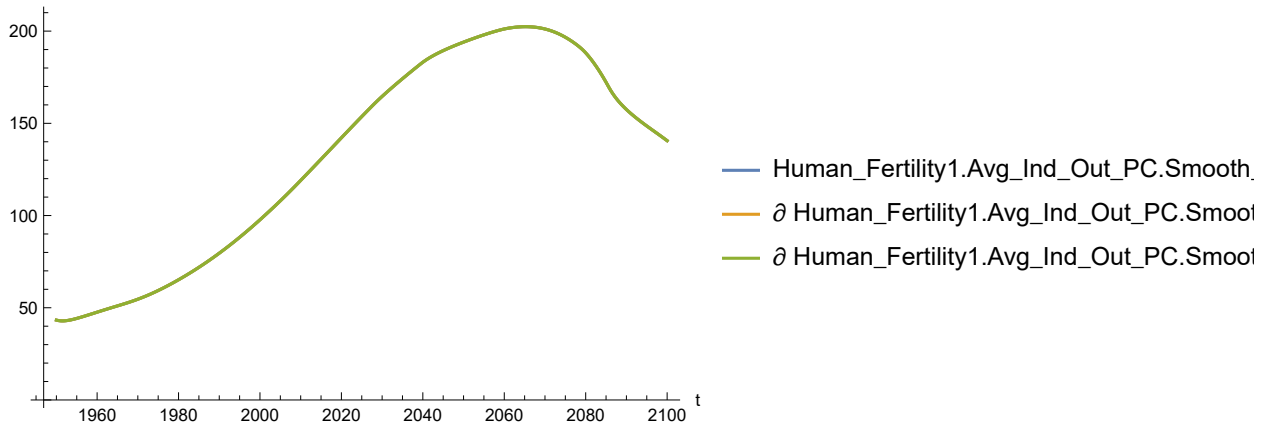


```
In[85]:= SystemModelPlot[simsensdata,
  {"Human_Fertility1.Avg_Ind_Out_PC.Smooth_of_Input.Integrator1.y",
   "Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[3]", percentvar}]
```



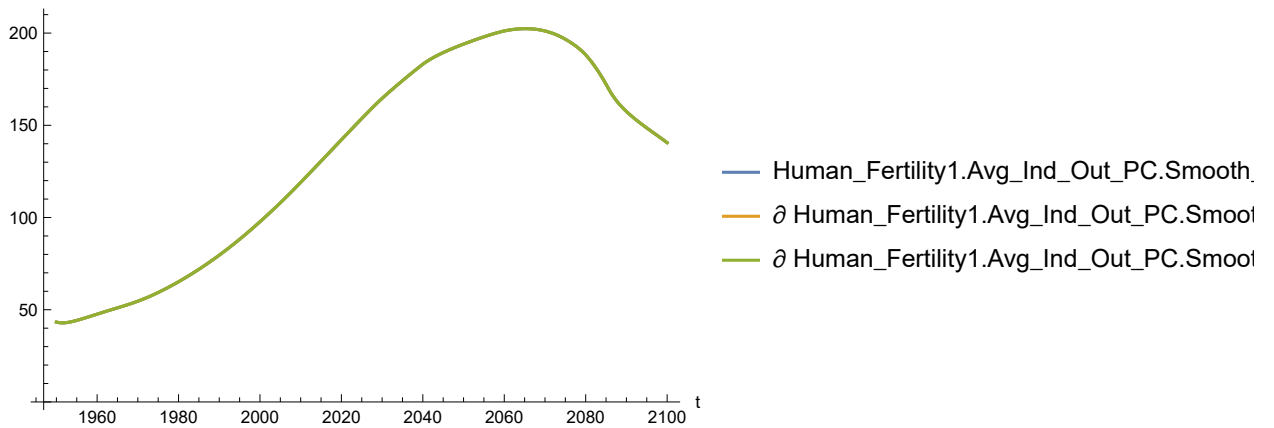
```
In[86]:= SystemModelPlot[simsensdata,
  {"Human_Fertility1.Avg_Ind_Out_PC.Smooth_of_Input.Integrator1.y",
   "Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[4]", percentvar}]
```

Out[86]=

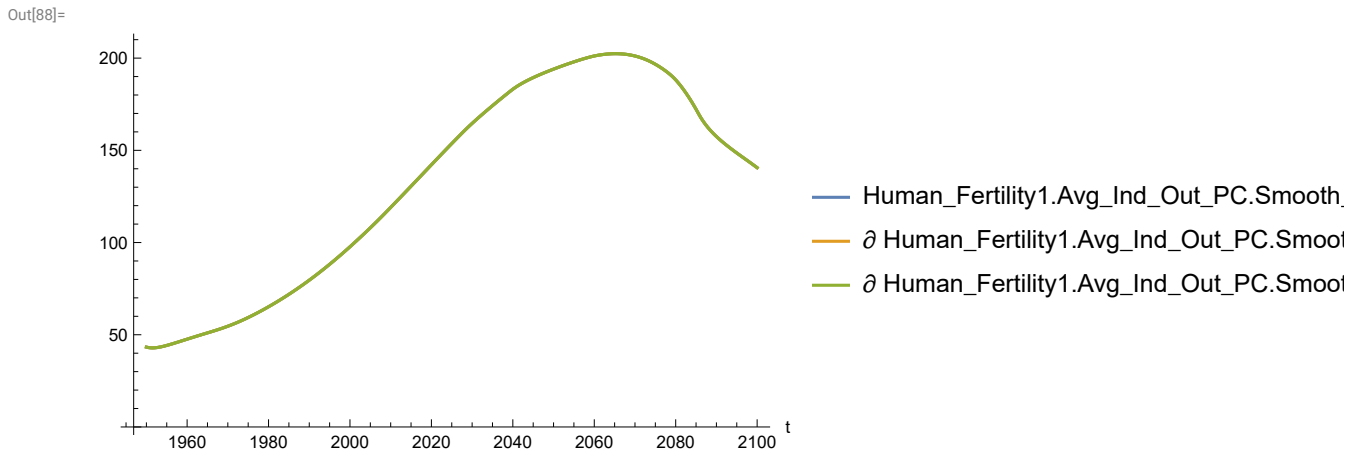


```
In[87]:= SystemModelPlot[simsensdata,
  {"Human_Fertility1.Avg_Ind_Out_PC.Smooth_of_Input.Integrator1.y",
   "Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[5]", percentvar}]
```

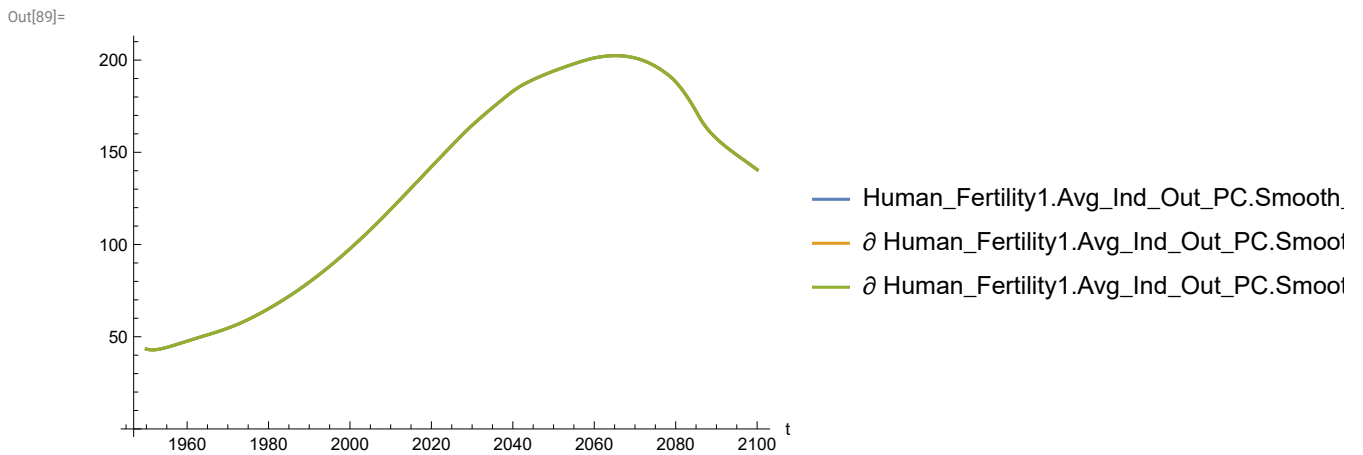
Out[87]=



```
In[88]:= SystemModelPlot[simsensdata,
  {"Human_Fertility1.Avg_Ind_Out_PC.Smooth_of_Input.Integrator1.y",
   "Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[6]", percentvar}]
```



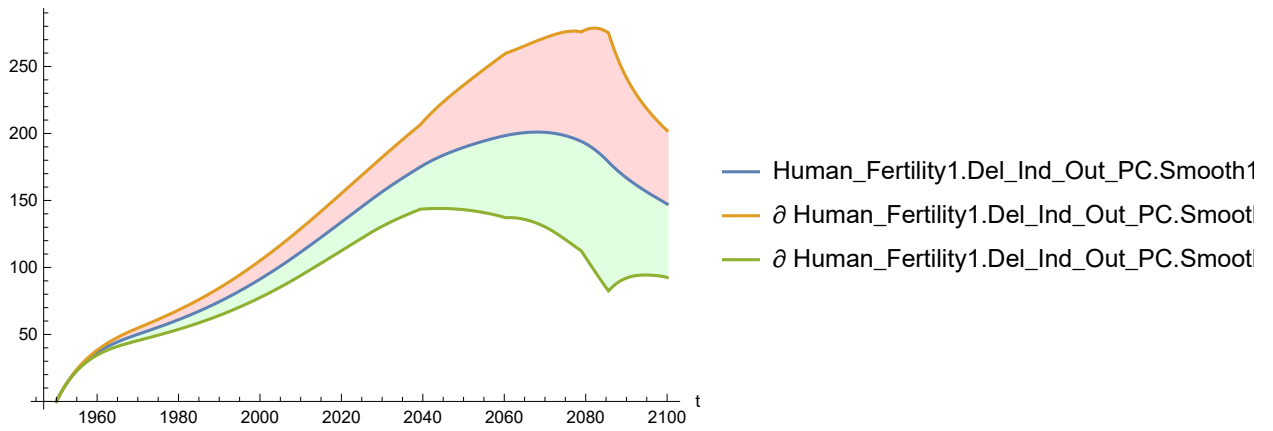
```
In[89]:= SystemModelPlot[simsensdata,
  {"Human_Fertility1.Avg_Ind_Out_PC.Smooth_of_Input.Integrator1.y",
   "Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[7]", percentvar}]
```



Plot the sensitivity of Human_Fertility1.Del_Ind_Out_PC.Smooth1.Integrator1.y to Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals.

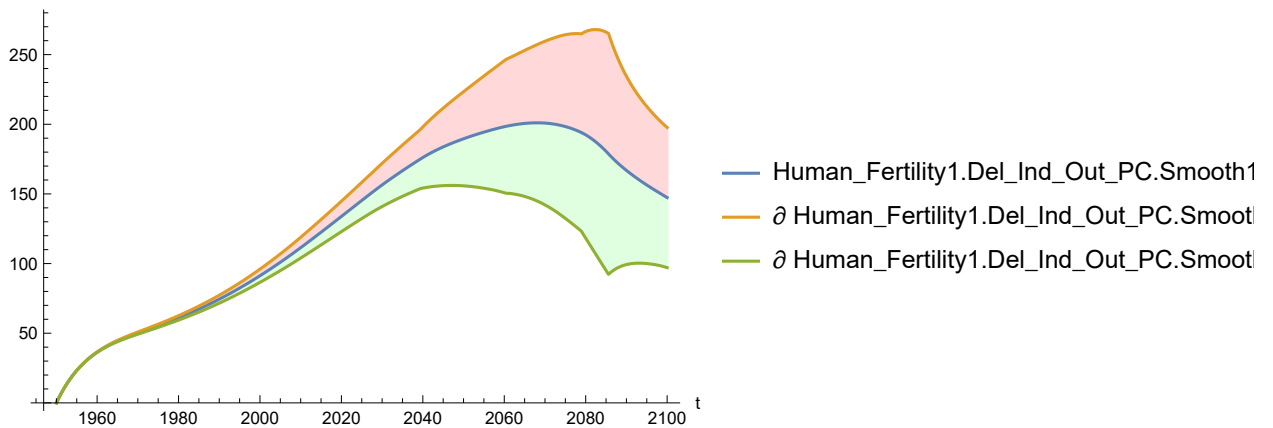
```
In[90]:= SystemModelPlot[simsensdata, {"Human_Fertility1.Del_Ind_Out_PC.Smooth1.Integrator1.y",
"Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[1]", percentvar}]
```

Out[90]=



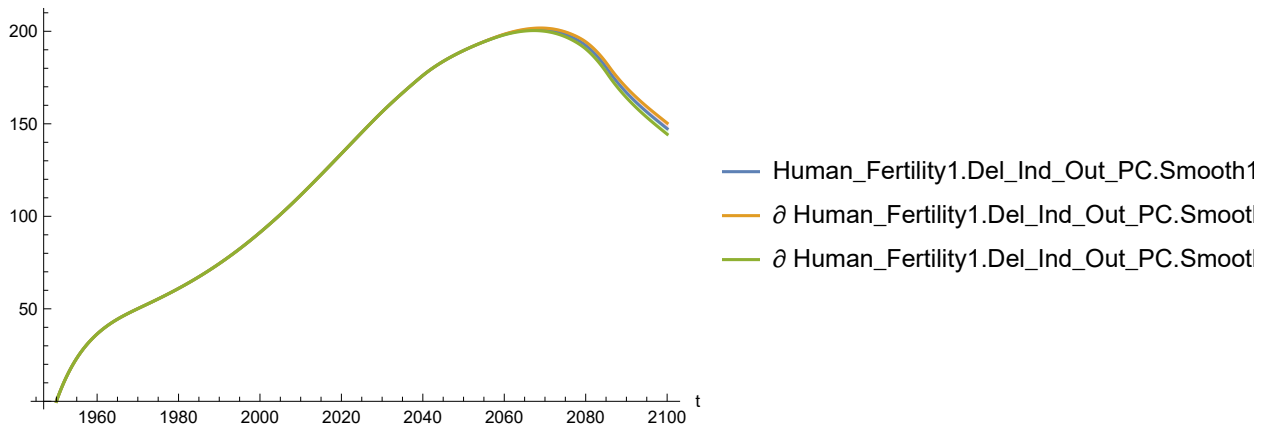
```
In[91]:= SystemModelPlot[simsensdata, {"Human_Fertility1.Del_Ind_Out_PC.Smooth1.Integrator1.y",
"Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[2]", percentvar}]
```

Out[91]=



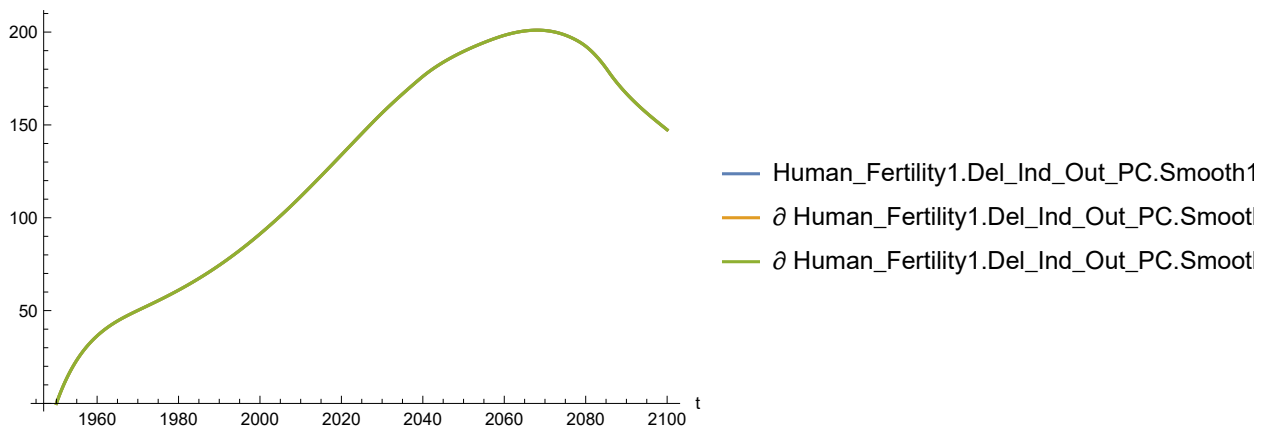
```
In[92]:= SystemModelPlot[simsensdata, {"Human_Fertility1.Del_Ind_Out_PC.Smooth1.Integrator1.y",
"Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[3]", percentvar}]
```

Out[92]=



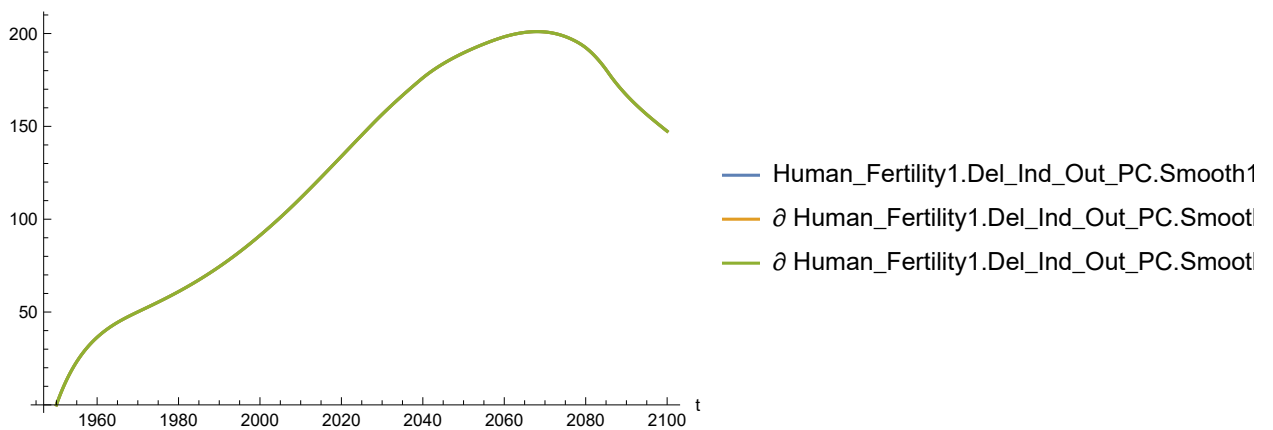
```
In[93]:= SystemModelPlot[simsensdata, {"Human_Fertility1.Del_Ind_Out_PC.Smooth1.Integrator1.y",
"Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[4]", percentvar}]
```

Out[93]=



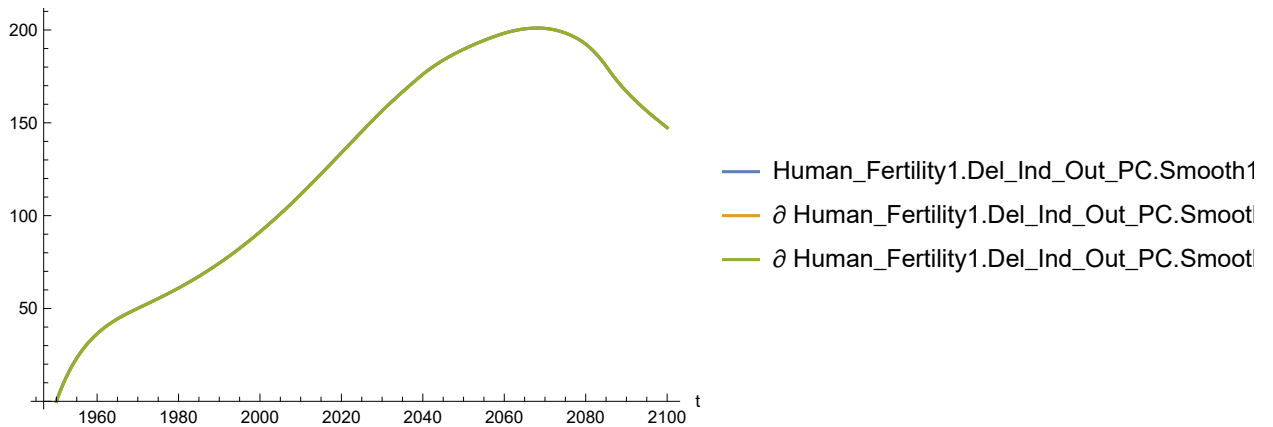
```
In[94]:= SystemModelPlot[simsensdata, {"Human_Fertility1.Del_Ind_Out_PC.Smooth1.Integrator1.y",
"Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[5]", percentvar}]
```

Out[94]=



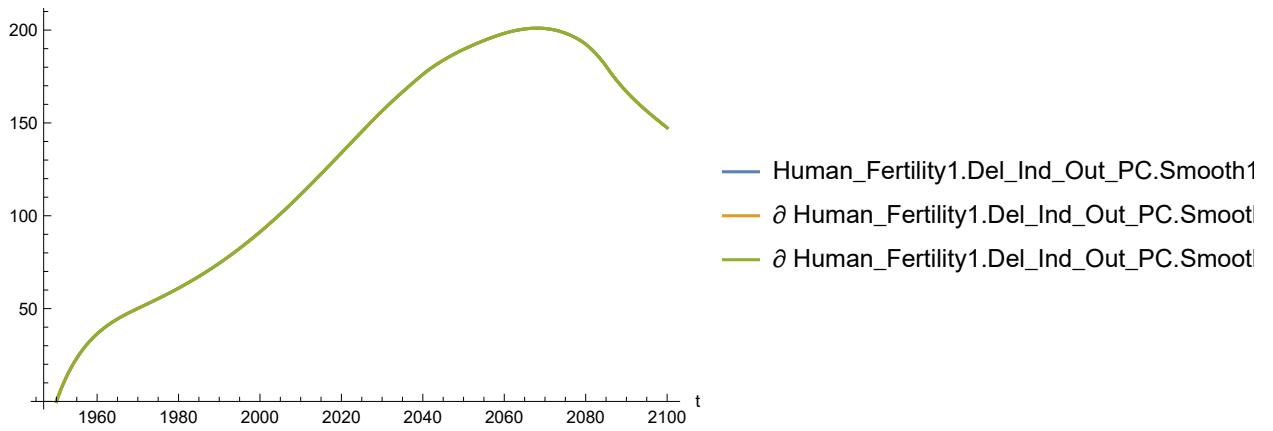
```
In[95]:= SystemModelPlot[simsensdata, {"Human_Fertility1.Del_Ind_Out_PC.Smooth1.Integrator1.y",
"Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[6]", percentvar}]
```

Out[95]=



```
In[96]:= SystemModelPlot[simsensdata, {"Human_Fertility1.De1_Ind_Out_PC.Smooth1.Integrator1.y",
"Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[7]", percentvar}]
```

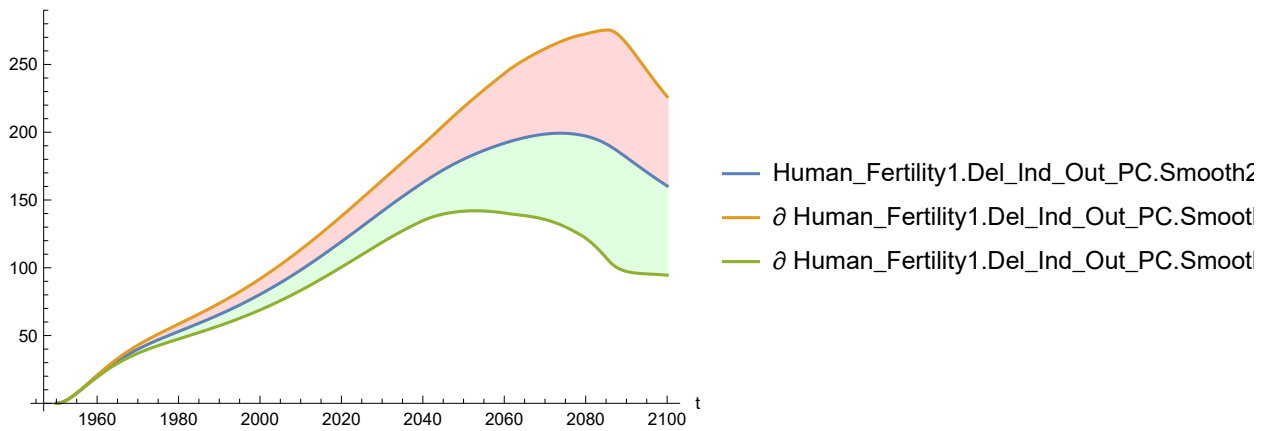
Out[96]=



Plot the sensitivity of Human_Fertility1.De1_Ind_Out_PC.Smooth2.Integrator1.y to Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals.

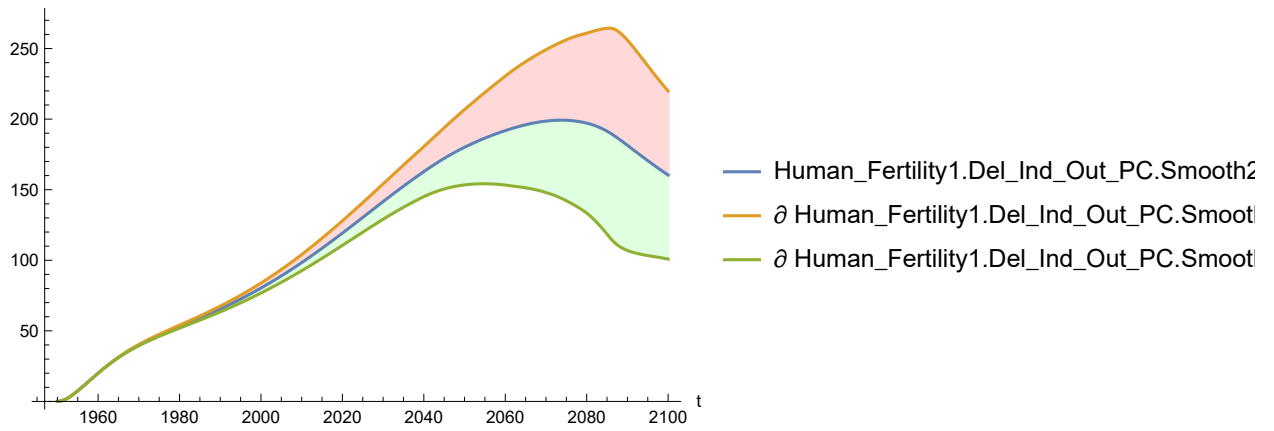
```
In[97]:= SystemModelPlot[simsensdata, {"Human_Fertility1.De1_Ind_Out_PC.Smooth2.Integrator1.y",
"Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[1]", percentvar}]
```

Out[97]=



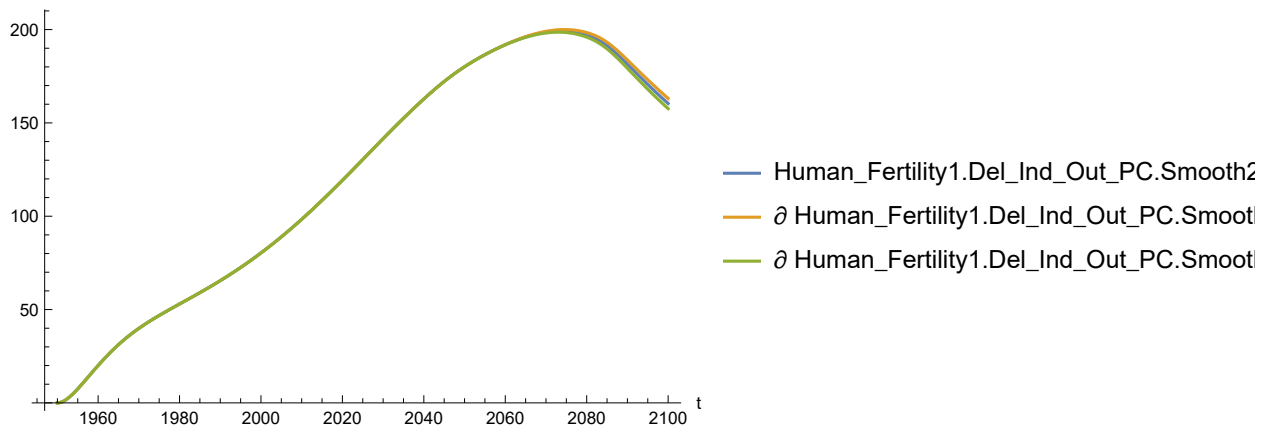
```
In[98]:= SystemModelPlot[simsensdata, {"Human_Fertility1.Del_Ind_Out_PC.Smooth2.Integrator1.y",
"Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[2]", percentvar}]
```

Out[98]=



```
In[99]:= SystemModelPlot[simsensdata, {"Human_Fertility1.Del_Ind_Out_PC.Smooth2.Integrator1.y",
"Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[3]", percentvar}]
```

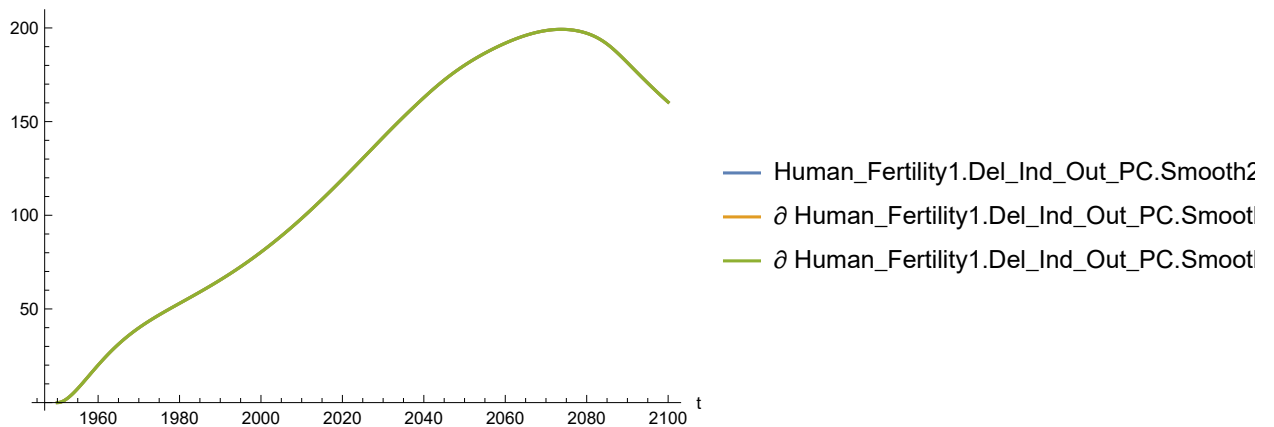
Out[99]=



In[100]=

```
SystemModelPlot[simsensdata, {"Human_Fertility1.Del_Ind_Out_PC.Smooth2.Integrator1.y",
"Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[4]", percentvar}]
```

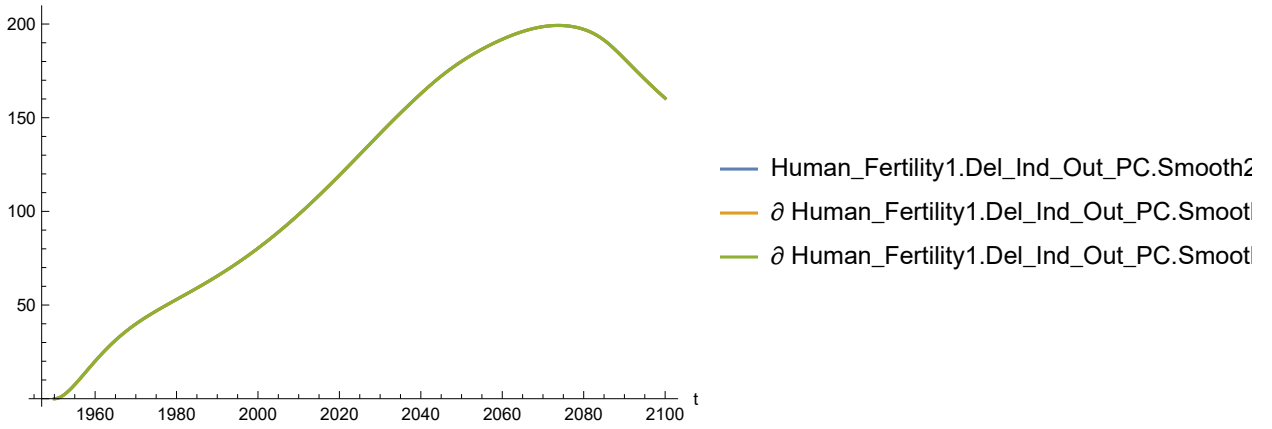
Out[100]=



In[101]:=

```
SystemModelPlot[simsensdata, {"Human_Fertility1.Del_Ind_Out_PC.Smooth2.Integrator1.y",
    "Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[5]", percentvar}]
```

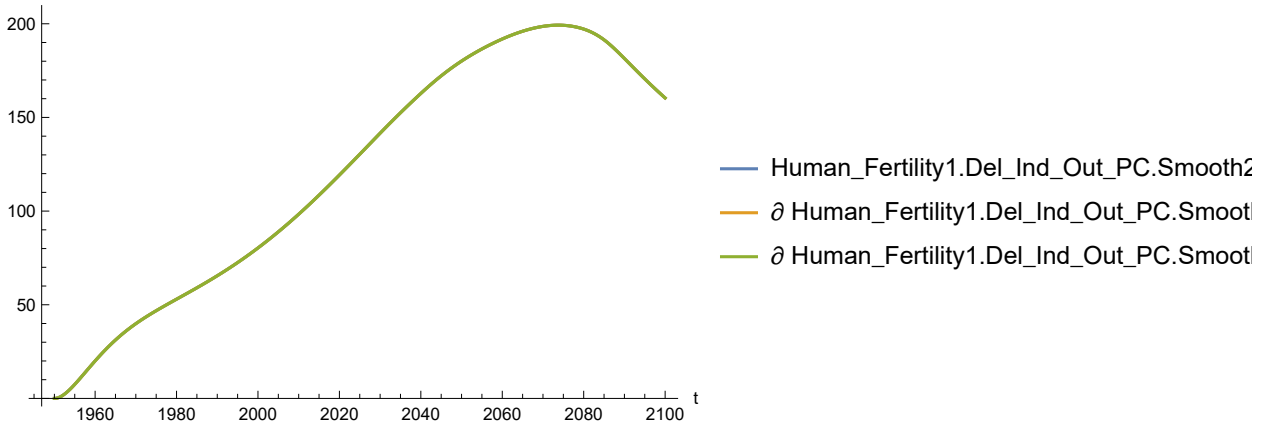
Out[101]=



In[102]:=

```
SystemModelPlot[simsensdata, {"Human_Fertility1.Del_Ind_Out_PC.Smooth2.Integrator1.y",
    "Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[6]", percentvar}]
```

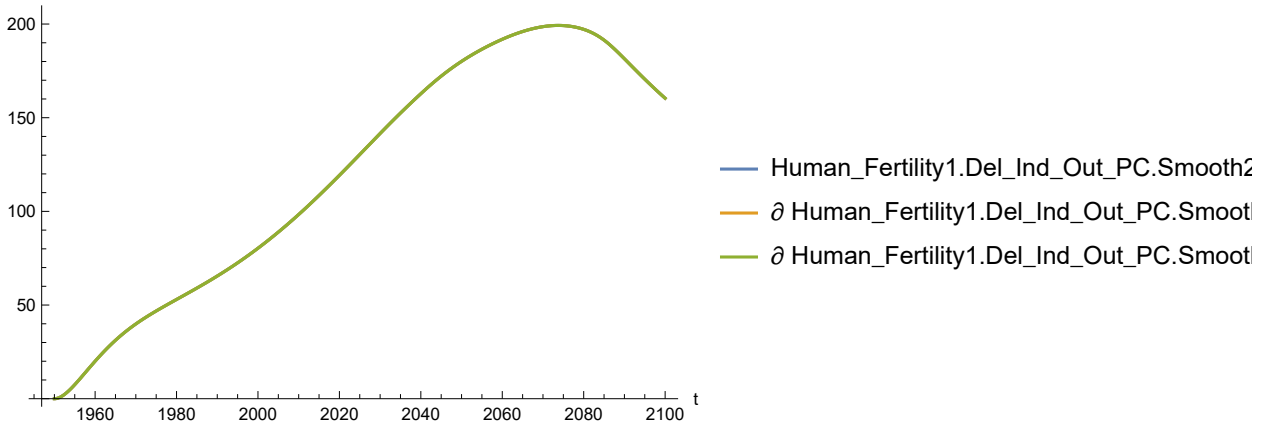
Out[102]=



In[103]:=

```
SystemModelPlot[simsensdata, {"Human_Fertility1.Del_Ind_Out_PC.Smooth2.Integrator1.y",
    "Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[7]", percentvar}]
```

Out[103]:=

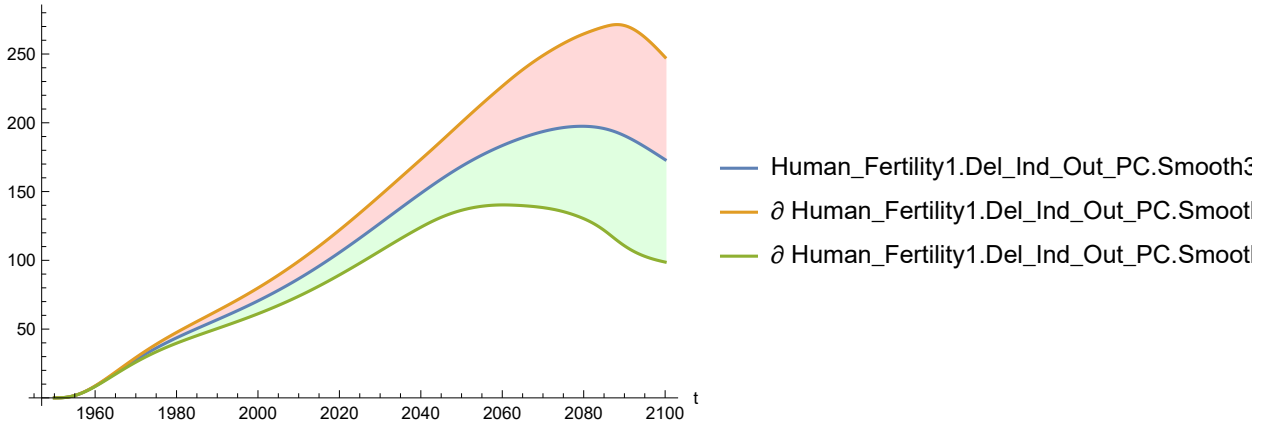


Plot the sensitivity of Human_Fertility1.Del_Ind_Out_PC.Smooth3.Integrator1.y to Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals.

In[104]:=

```
SystemModelPlot[simsensdata, {"Human_Fertility1.Del_Ind_Out_PC.Smooth3.Integrator1.y",
    "Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[1]", percentvar}]
```

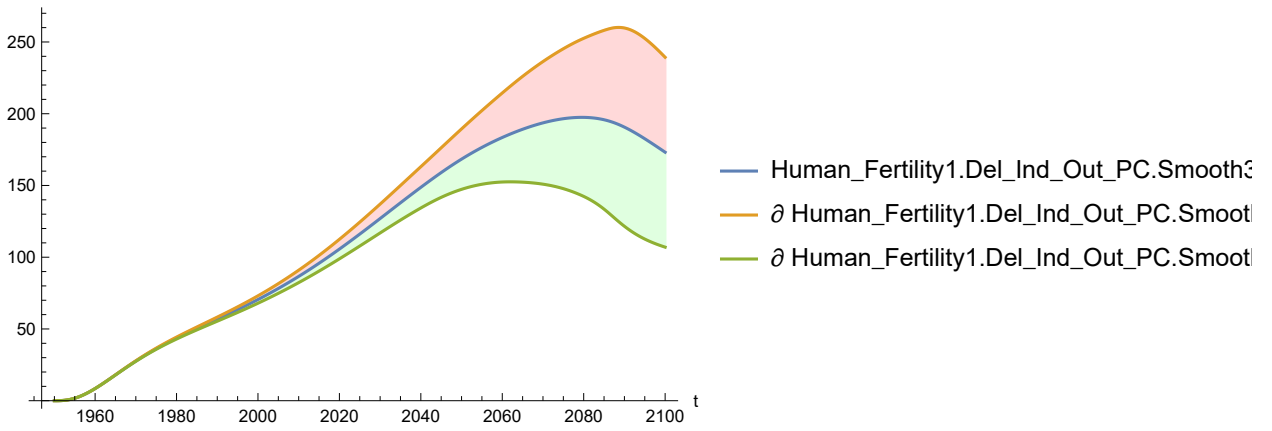
Out[104]:=



In[105]:=

```
SystemModelPlot[simsensdata, {"Human_Fertility1.Del_Ind_Out_PC.Smooth3.Integrator1.y",
"Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[2]", percentvar}]
```

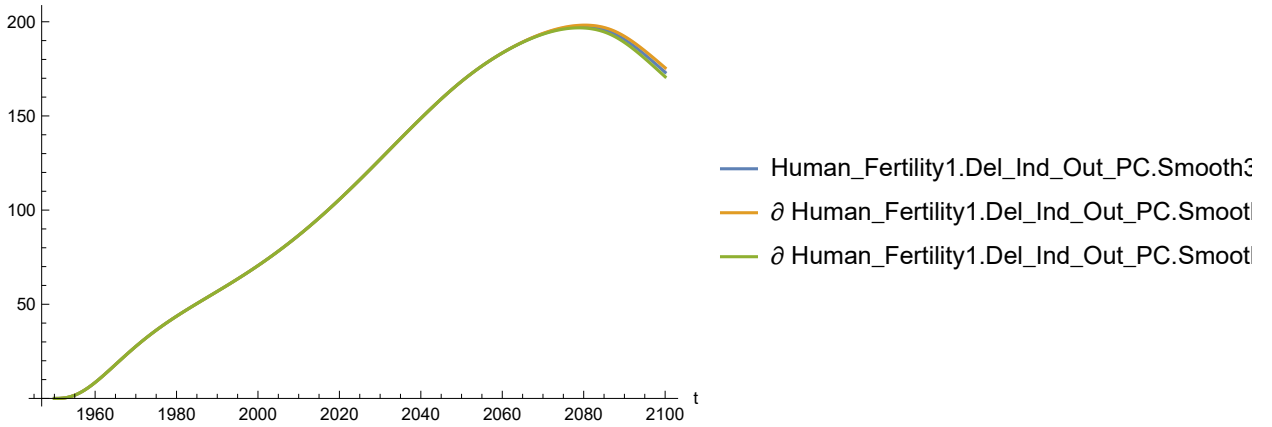
Out[105]=



In[106]:=

```
SystemModelPlot[simsensdata, {"Human_Fertility1.Del_Ind_Out_PC.Smooth3.Integrator1.y",
"Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[3]", percentvar}]
```

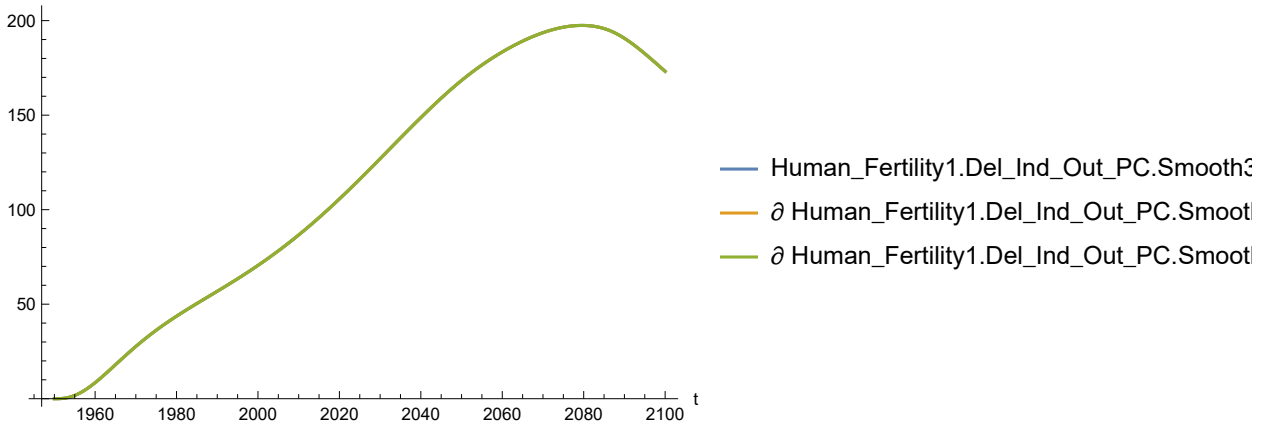
Out[106]=



In[107]:=

```
SystemModelPlot[simsensdata, {"Human_Fertility1.Del_Ind_Out_PC.Smooth3.Integrator1.y",
    "Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[4]", percentvar}]
```

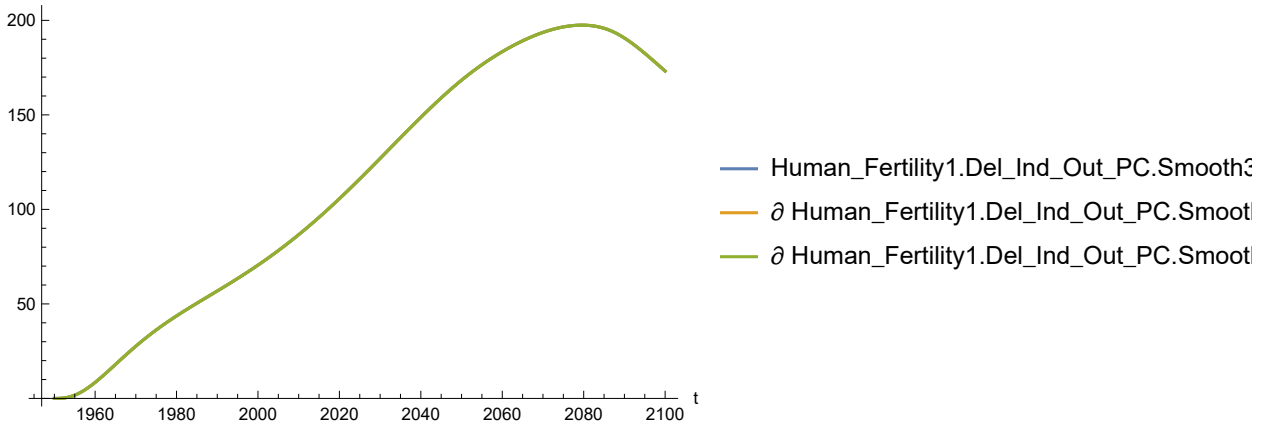
Out[107]=



In[108]:=

```
SystemModelPlot[simsensdata, {"Human_Fertility1.Del_Ind_Out_PC.Smooth3.Integrator1.y",
    "Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[5]", percentvar}]
```

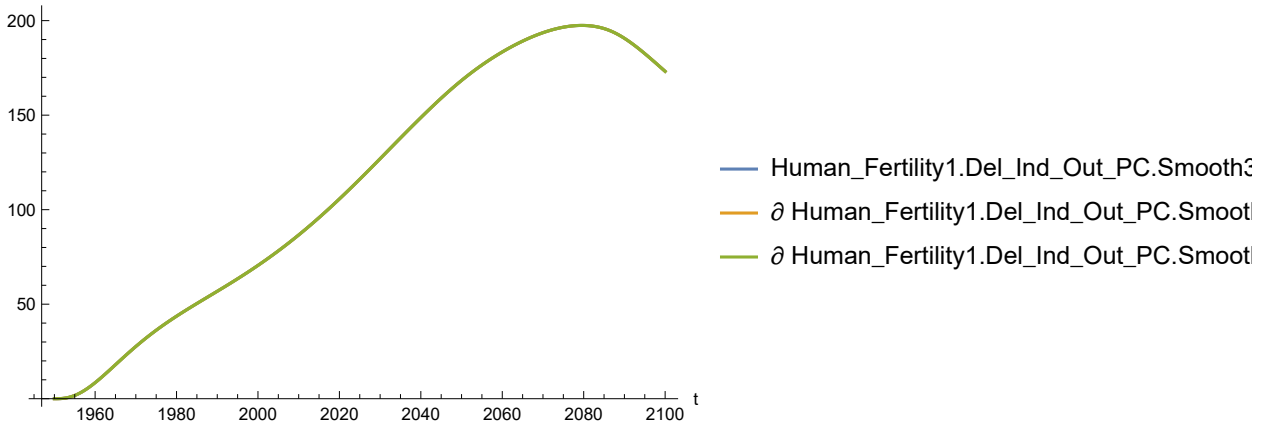
Out[108]=



In[109]:=

```
SystemModelPlot[simsensdata, {"Human_Fertility1.Del_Ind_Out_PC.Smooth3.Integrator1.y",
    "Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[6]", percentvar}]
```

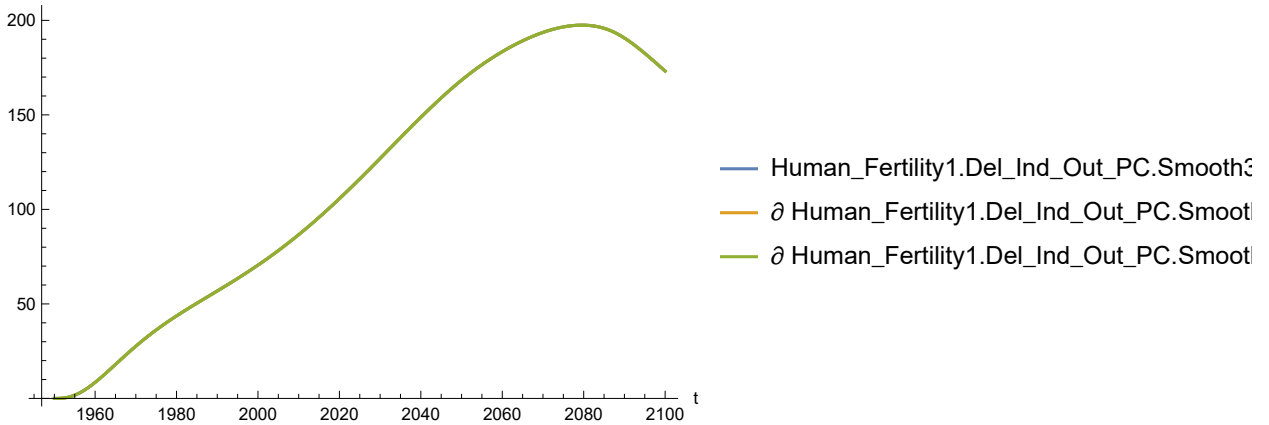
Out[109]=



In[110]:=

```
SystemModelPlot[simsensdata, {"Human_Fertility1.Del_Ind_Out_PC.Smooth3.Integrator1.y",
    "Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[7]", percentvar}]
```

Out[110]=

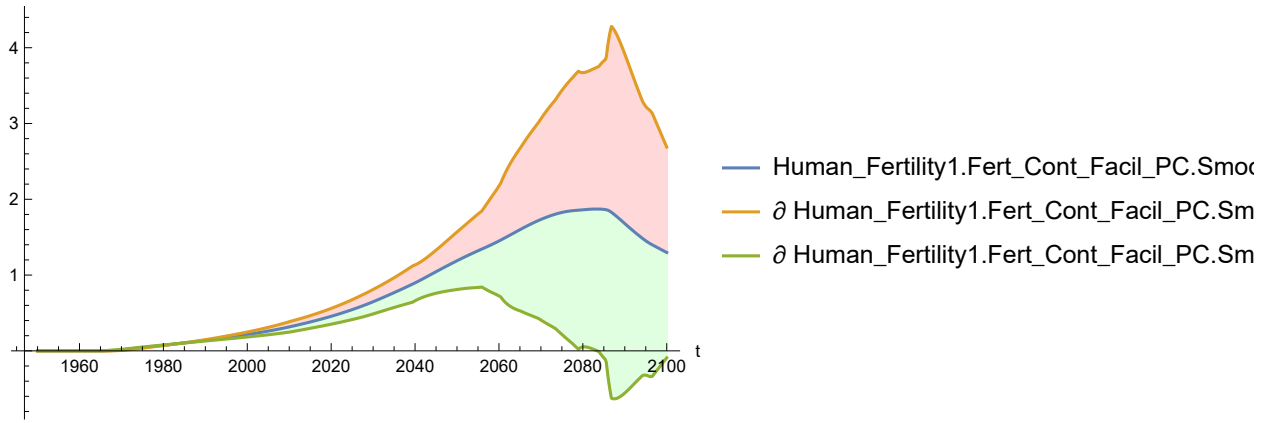


Plot the sensitivity of Human_Fertility1.Fert_Cont_Facil_PC.Smooth1.Integrator1.y to Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals.

In[111]:=

```
SystemModelPlot[simsensdata,
  {"Human_Fertility1.Fert_Cont_Facil_PC.Smooth1.Integrator1.y",
   "Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[1]", percentvar}]
```

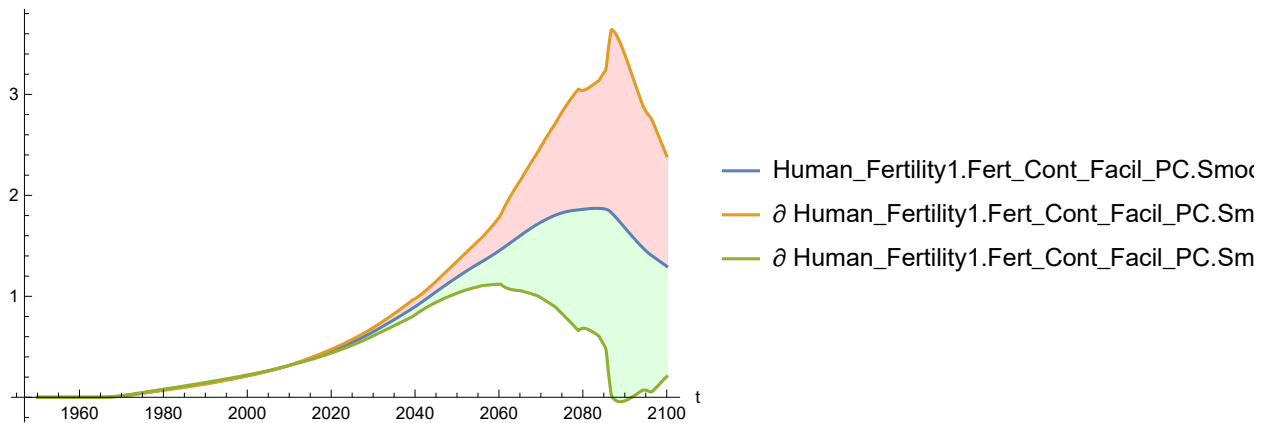
Out[111]=



In[112]:=

```
SystemModelPlot[simsensdata,
  {"Human_Fertility1.Fert_Cont_Facil_PC.Smooth1.Integrator1.y",
   "Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[2]", percentvar}]
```

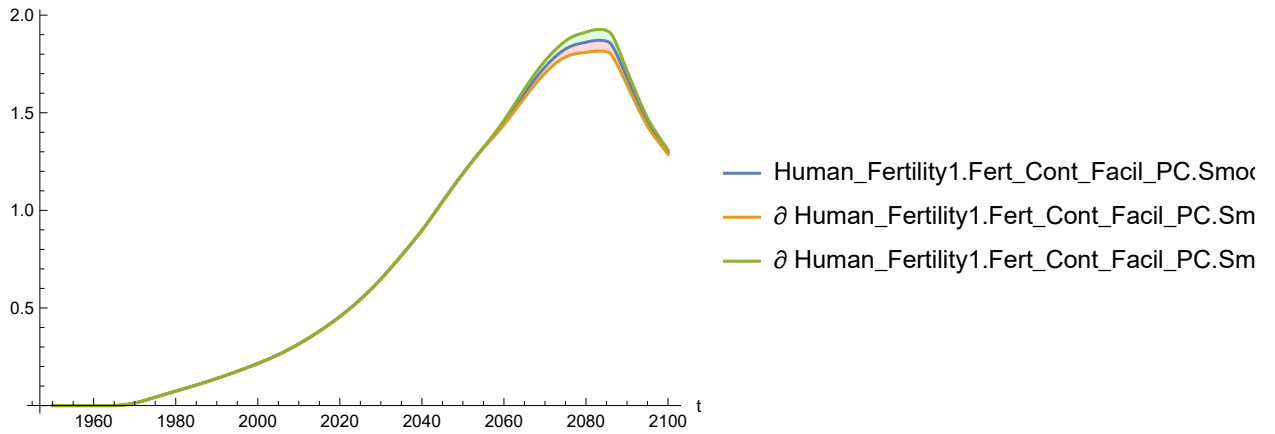
Out[112]=



In[113]:=

```
SystemModelPlot[simsensdata,
  {"Human_Fertility1.Fert_Cont_Facil_PC.Smooth1.Integrator1.y",
   "Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[3]", percentvar}]
```

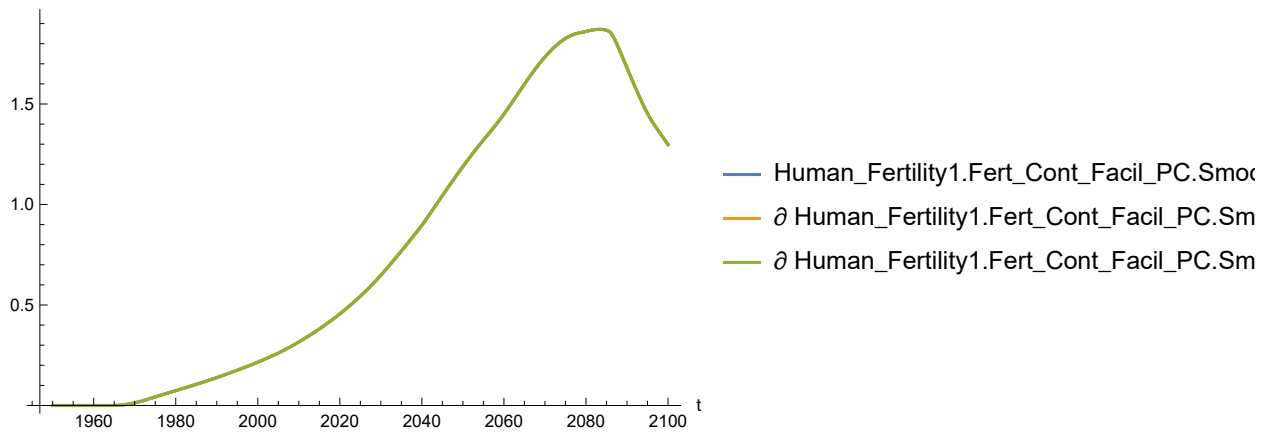
Out[113]=



In[114]:=

```
SystemModelPlot[simsensdata,
  {"Human_Fertility1.Fert_Cont_Facil_PC.Smooth1.Integrator1.y",
   "Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[4]", percentvar}]
```

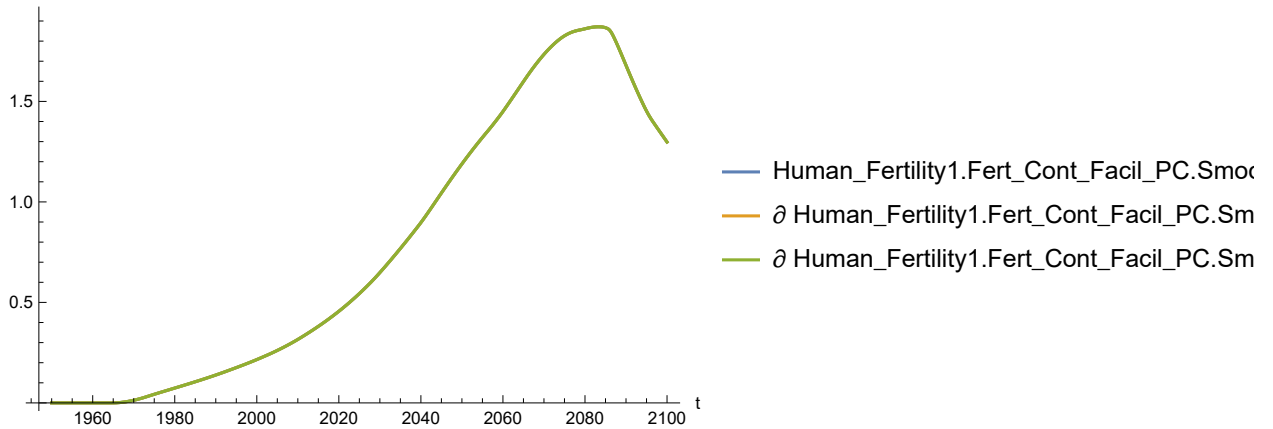
Out[114]=



In[115]:=

```
SystemModelPlot[simsensdata,
  {"Human_Fertility1.Fert_Cont_Facil_PC.Smooth1.Integrator1.y",
   "Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[5]", percentvar}]
```

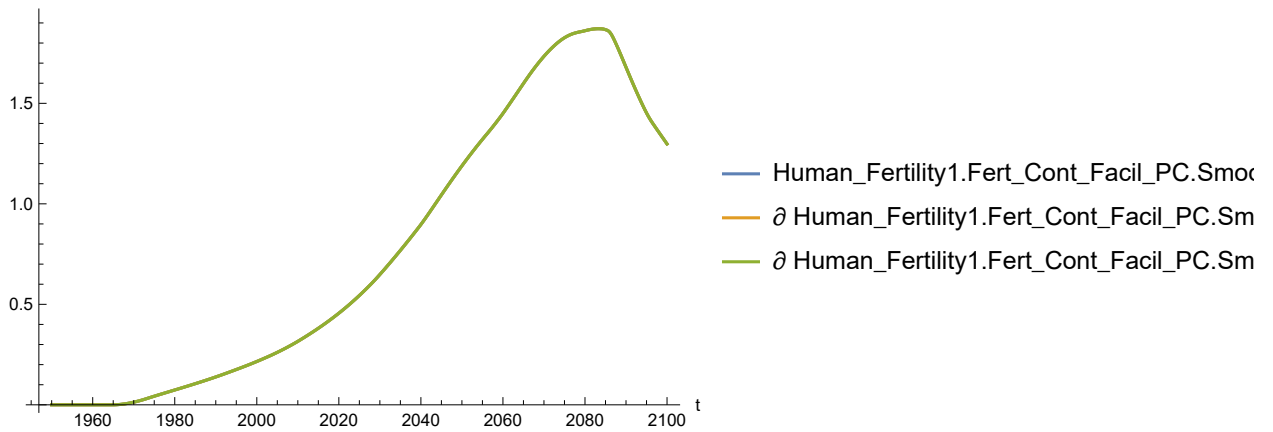
Out[115]=



In[116]:=

```
SystemModelPlot[simsensdata,
  {"Human_Fertility1.Fert_Cont_Facil_PC.Smooth1.Integrator1.y",
   "Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[6]", percentvar}]
```

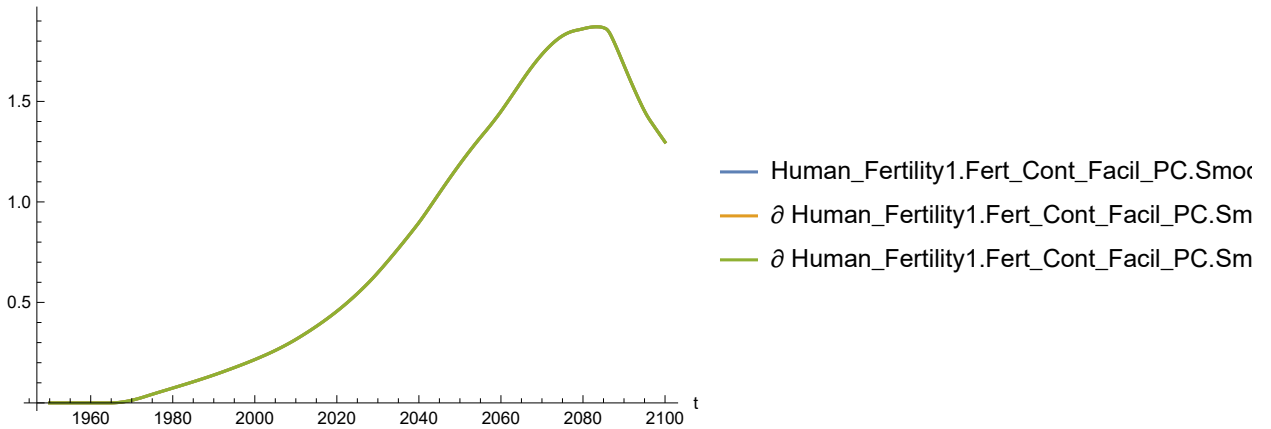
Out[116]=



In[117]:=

```
SystemModelPlot[simsensdata,
  {"Human_Fertility1.Fert_Cont_Facil_PC.Smooth1.Integrator1.y",
   "Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[7]", percentvar}]
```

Out[117]=

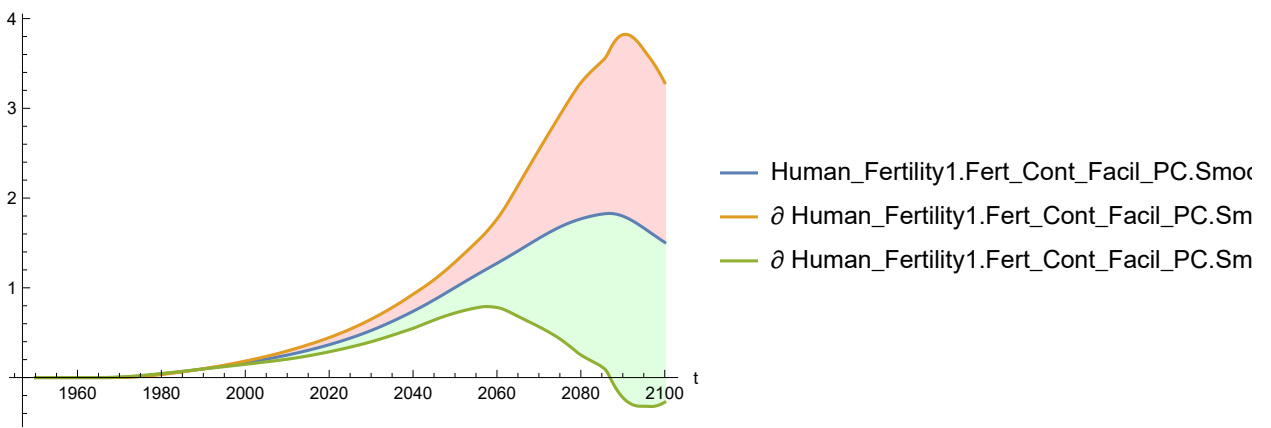


Plot the sensitivity of Human_Fertility1.Fert_Cont_Facil_PC.Smooth2.Integrator1.y to Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals.

In[118]:=

```
SystemModelPlot[simsensdata,
  {"Human_Fertility1.Fert_Cont_Facil_PC.Smooth2.Integrator1.y",
   "Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[1]", percentvar}]
```

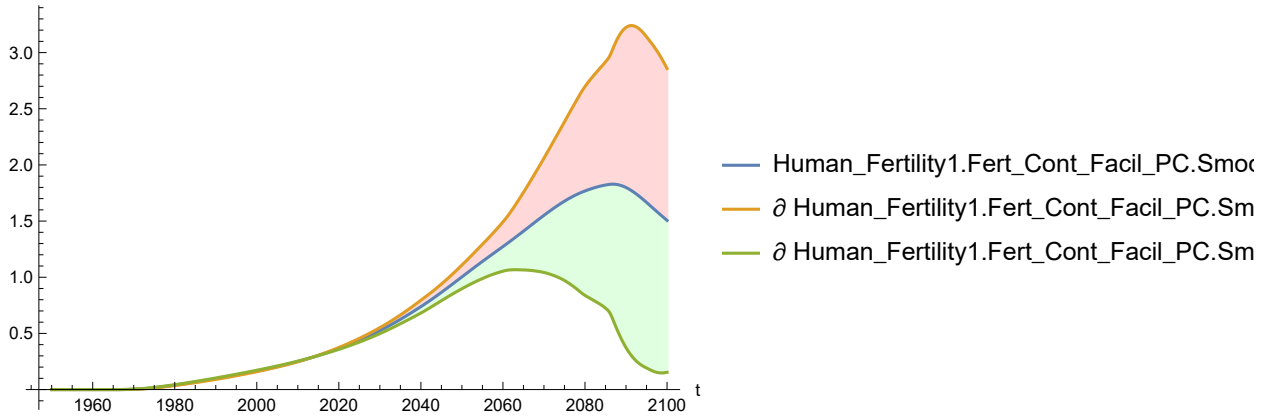
Out[118]=



In[119]:=

```
SystemModelPlot[simsensdata,
  {"Human_Fertility1.Fert_Cont_Facil_PC.Smooth2.Integrator1.y",
   "Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[2]", percentvar}]
```

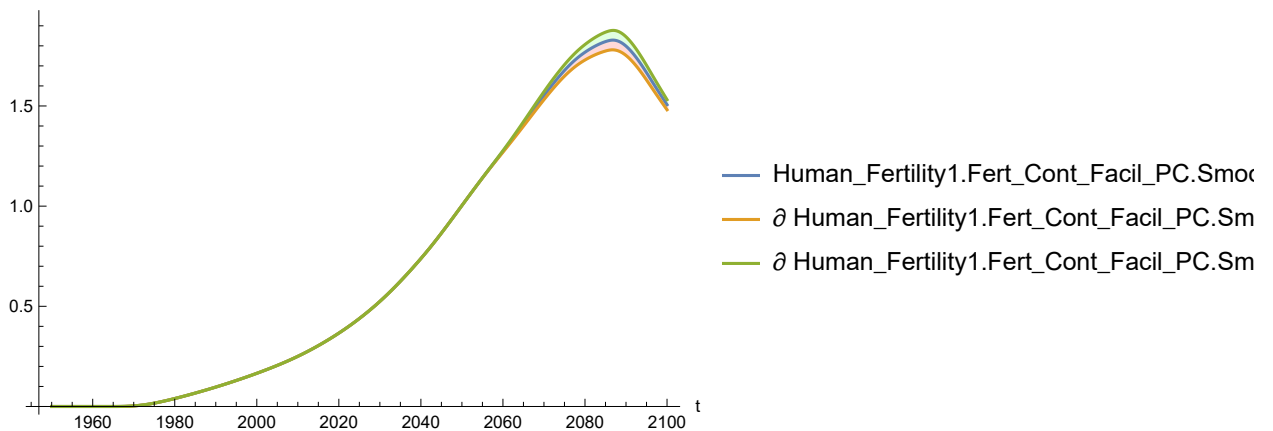
Out[119]=



In[120]:=

```
SystemModelPlot[simsensdata,
  {"Human_Fertility1.Fert_Cont_Facil_PC.Smooth2.Integrator1.y",
   "Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[3]", percentvar}]
```

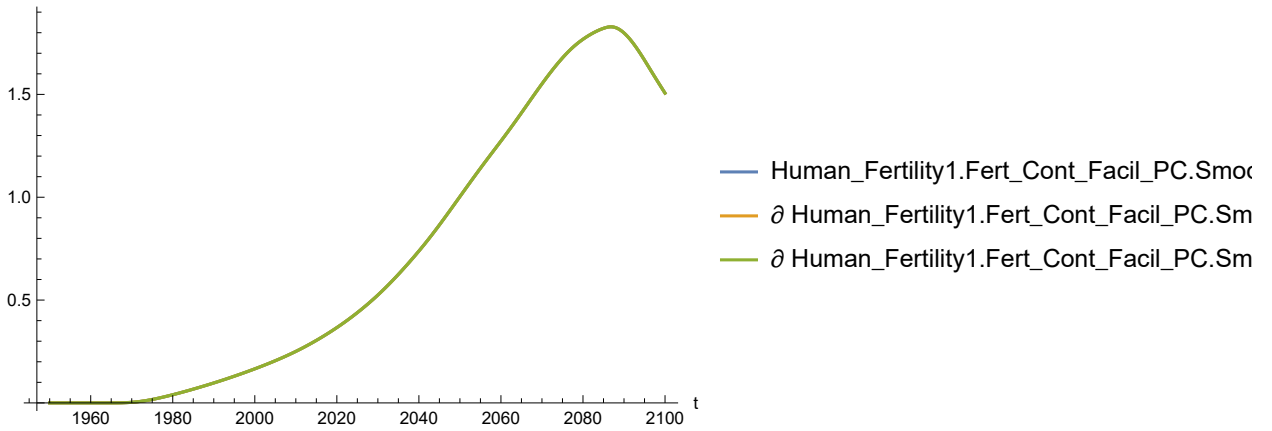
Out[120]=



In[121]:=

```
SystemModelPlot[simsensdata,
  {"Human_Fertility1.Fert_Cont_Facil_PC.Smooth2.Integrator1.y",
   "Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[4]", percentvar}]
```

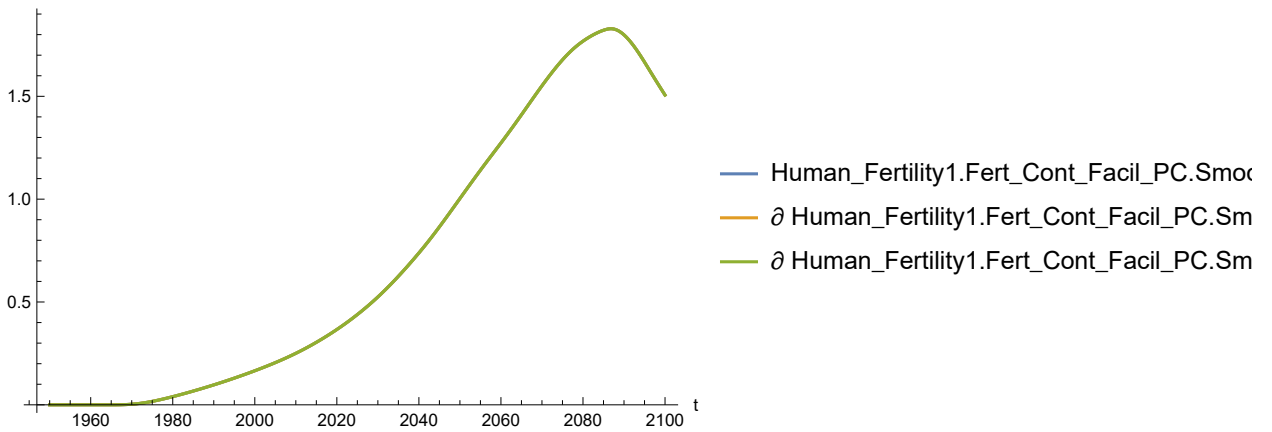
Out[121]=



In[122]:=

```
SystemModelPlot[simsensdata,
  {"Human_Fertility1.Fert_Cont_Facil_PC.Smooth2.Integrator1.y",
   "Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[5]", percentvar}]
```

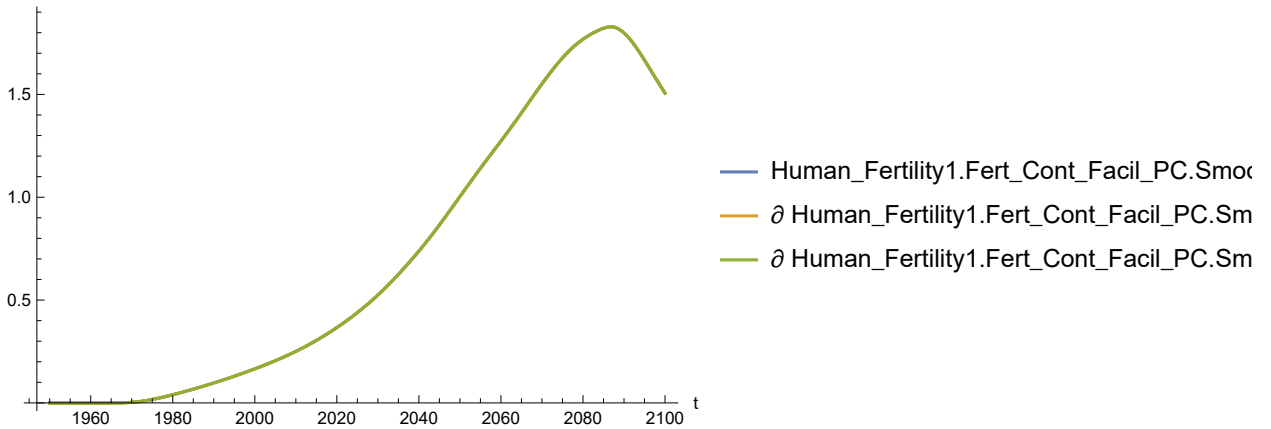
Out[122]=



In[123]:=

```
SystemModelPlot[simsensdata,
  {"Human_Fertility1.Fert_Cont_Facil_PC.Smooth2.Integrator1.y",
   "Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[6]", percentvar}]
```

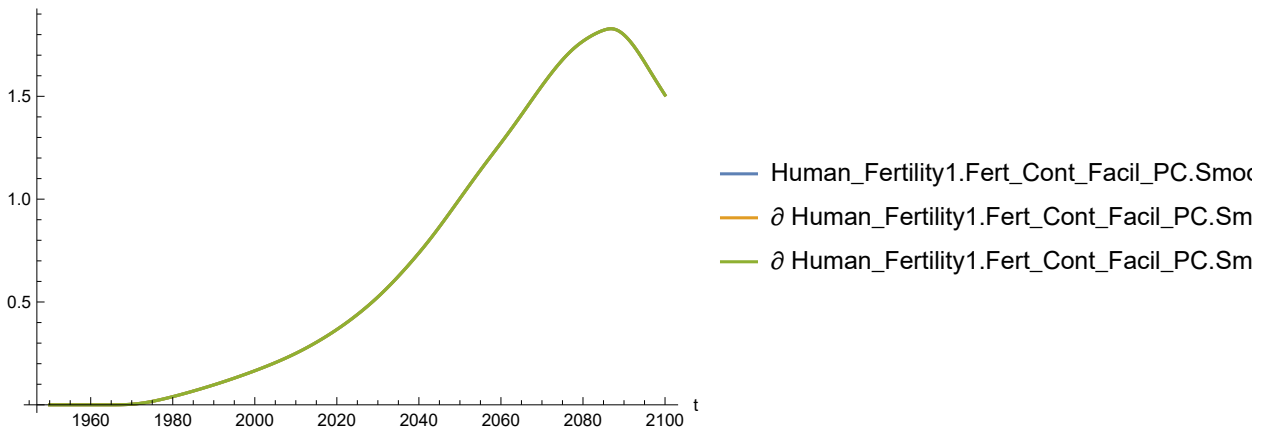
Out[123]=



In[124]:=

```
SystemModelPlot[simsensdata,
  {"Human_Fertility1.Fert_Cont_Facil_PC.Smooth2.Integrator1.y",
   "Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[7]", percentvar}]
```

Out[124]=

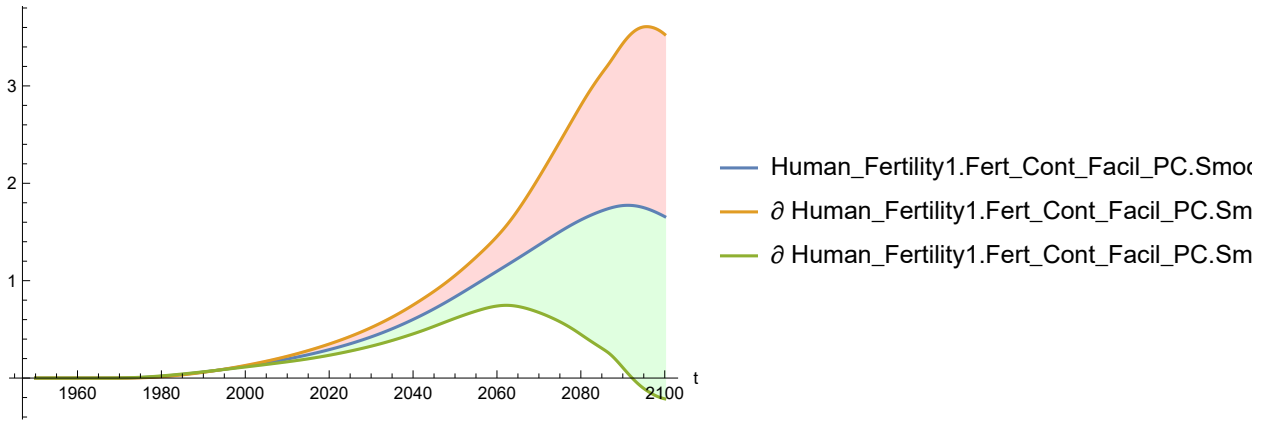


Plot the sensitivity of Human_Fertility1.Fert_Cont_Facil_PC.Smooth3.Integrator1.y to Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals.

In[125]:=

```
SystemModelPlot[simsensdata,
  {"Human_Fertility1.Fert_Cont_Facil_PC.Smooth3.Integrator1.y",
   "Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[1]", percentvar}]
```

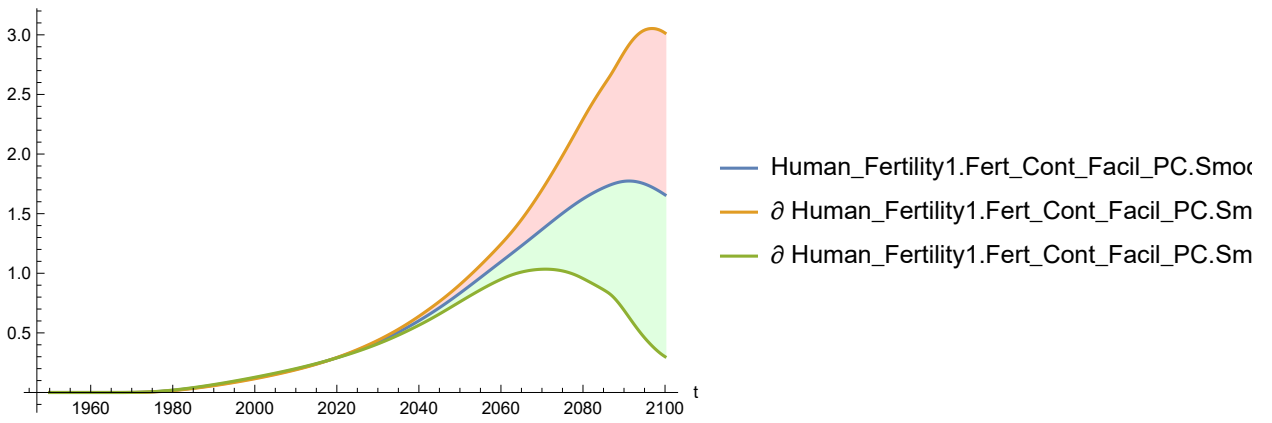
Out[125]=



In[126]:=

```
SystemModelPlot[simsensdata,
  {"Human_Fertility1.Fert_Cont_Facil_PC.Smooth3.Integrator1.y",
   "Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[2]", percentvar}]
```

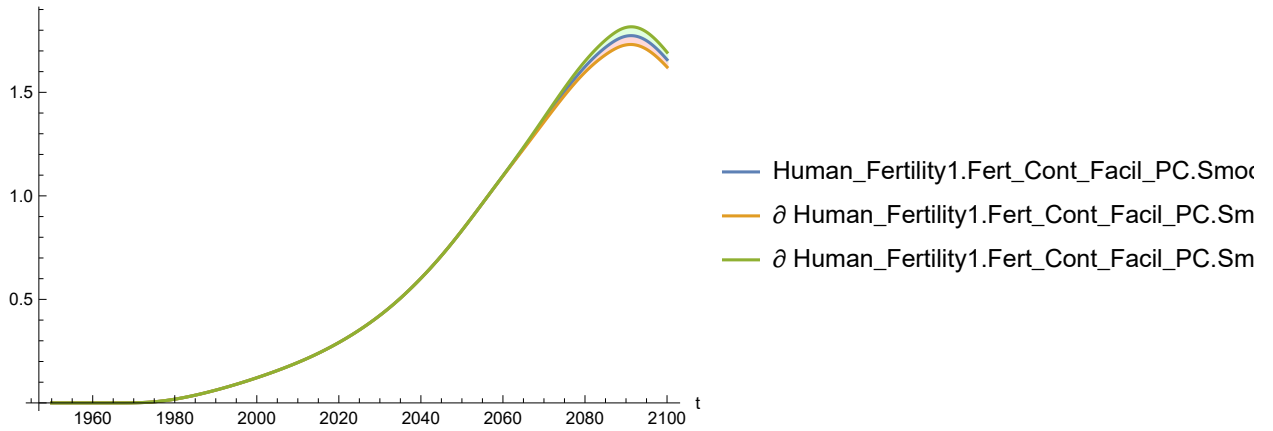
Out[126]=



In[127]:=

```
SystemModelPlot[simsensdata,
  {"Human_Fertility1.Fert_Cont_Facil_PC.Smooth3.Integrator1.y",
   "Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[3]", percentvar}]
```

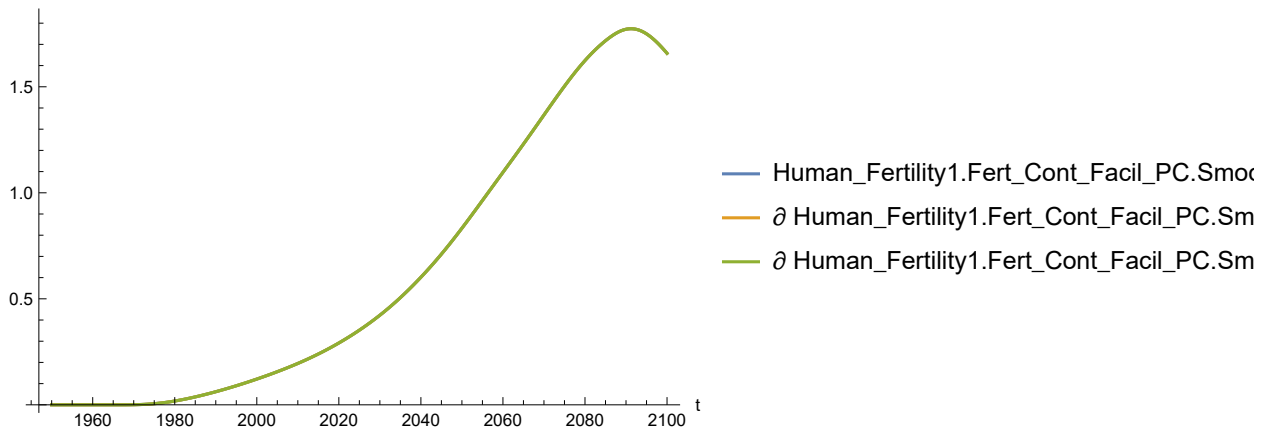
Out[127]=



In[128]:=

```
SystemModelPlot[simsensdata,
  {"Human_Fertility1.Fert_Cont_Facil_PC.Smooth3.Integrator1.y",
   "Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[4]", percentvar}]
```

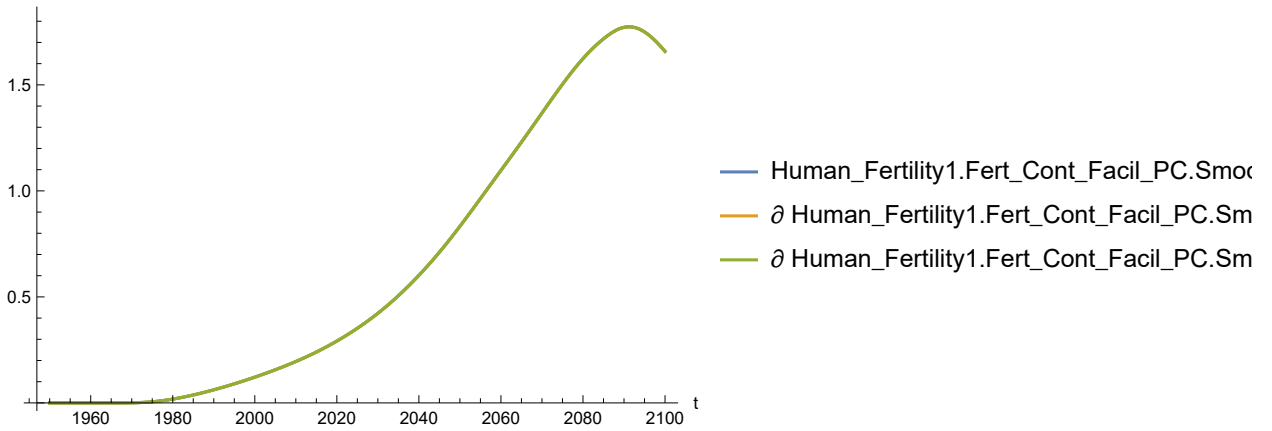
Out[128]=



In[129]:=

```
SystemModelPlot[simsensdata,
  {"Human_Fertility1.Fert_Cont_Facil_PC.Smooth3.Integrator1.y",
   "Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[5]", percentvar}]
```

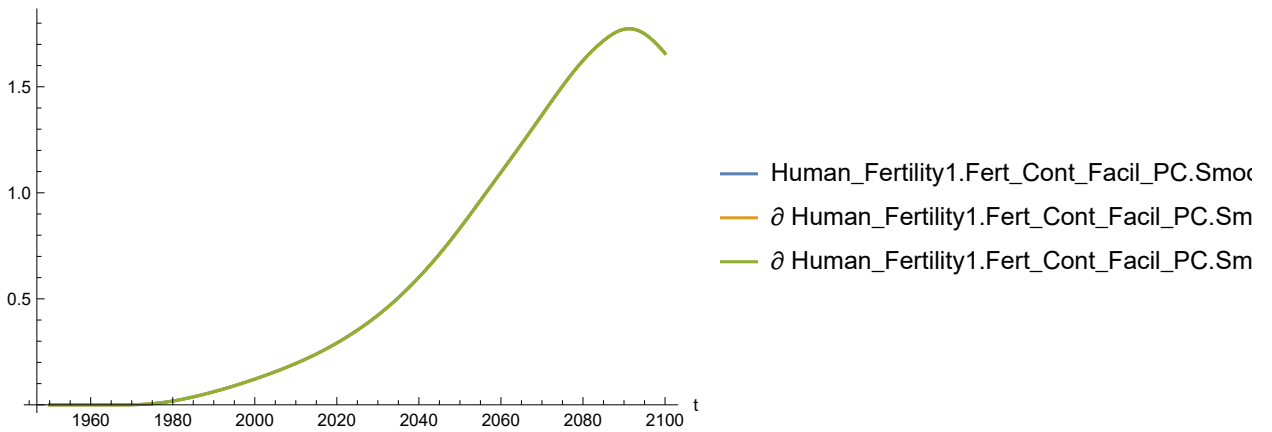
Out[129]=



In[130]:=

```
SystemModelPlot[simsensdata,
  {"Human_Fertility1.Fert_Cont_Facil_PC.Smooth3.Integrator1.y",
   "Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[6]", percentvar}]
```

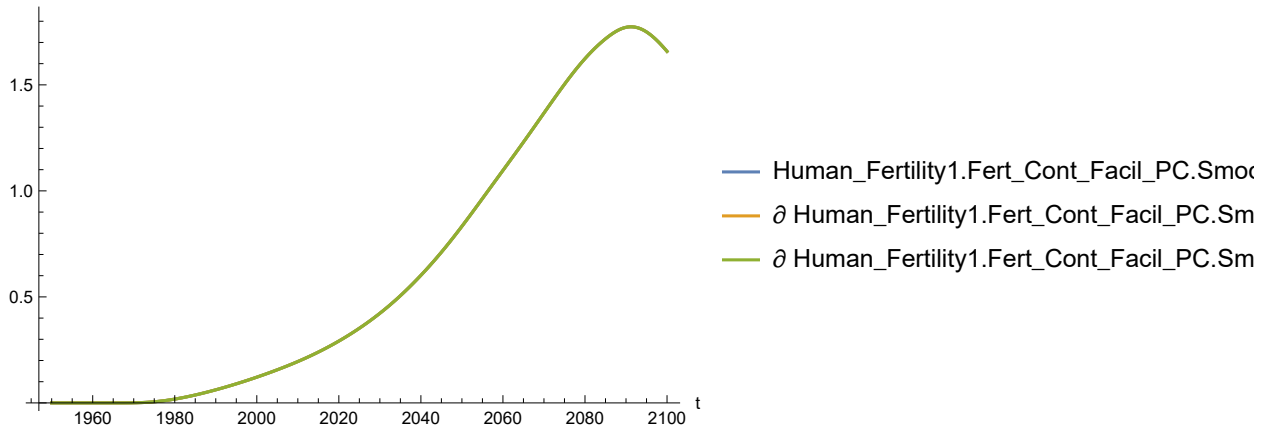
Out[130]=



In[131]:=

```
SystemModelPlot[simsensdata,
  {"Human_Fertility1.Fert_Cont_Facil_PC.Smooth3.Integrator1.y",
   "Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[7]", percentvar}]
```

Out[131]:=

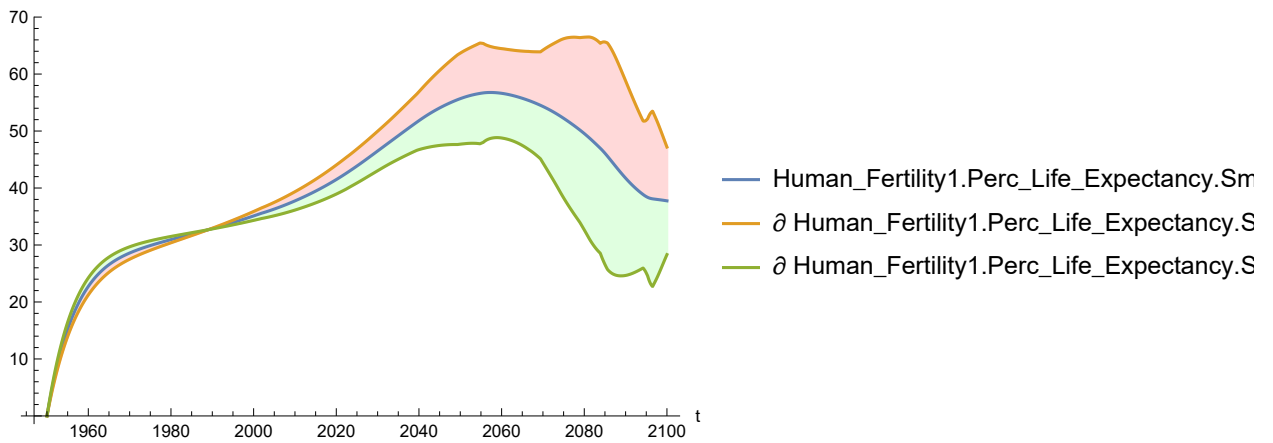


Plot the sensitivity of Human_Fertility1.Perc_Life_Expectancy.Smooth1.Integrator1.y to Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals.

In[132]:=

```
SystemModelPlot[simsensdata,
  {"Human_Fertility1.Perc_Life_Expectancy.Smooth1.Integrator1.y",
   "Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[1]", percentvar}]
```

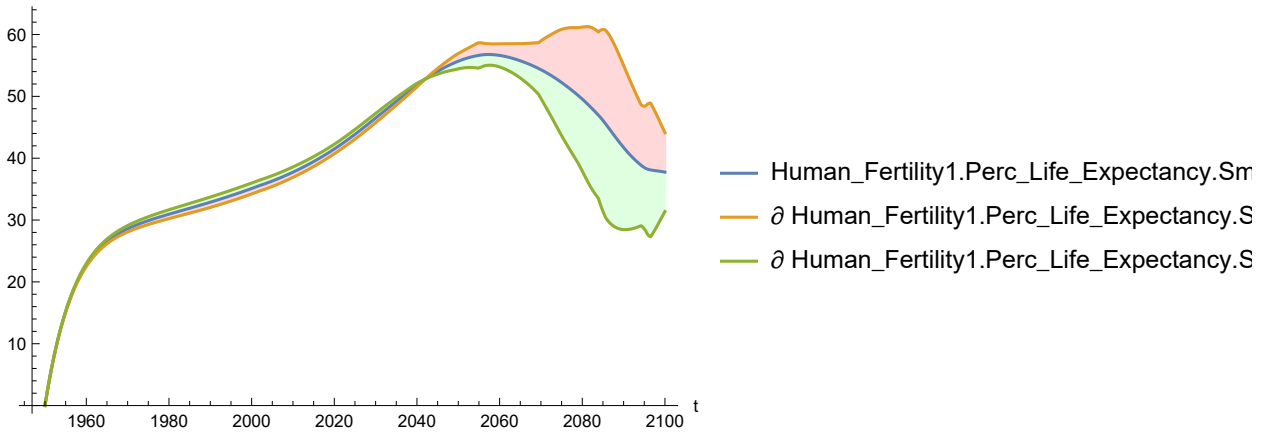
Out[132]:=



In[133]:=

```
SystemModelPlot[simsensdata,
  {"Human_Fertility1.Perc_Life_Expectancy.Smooth1.Integrator1.y",
   "Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[2]", percentvar}]
```

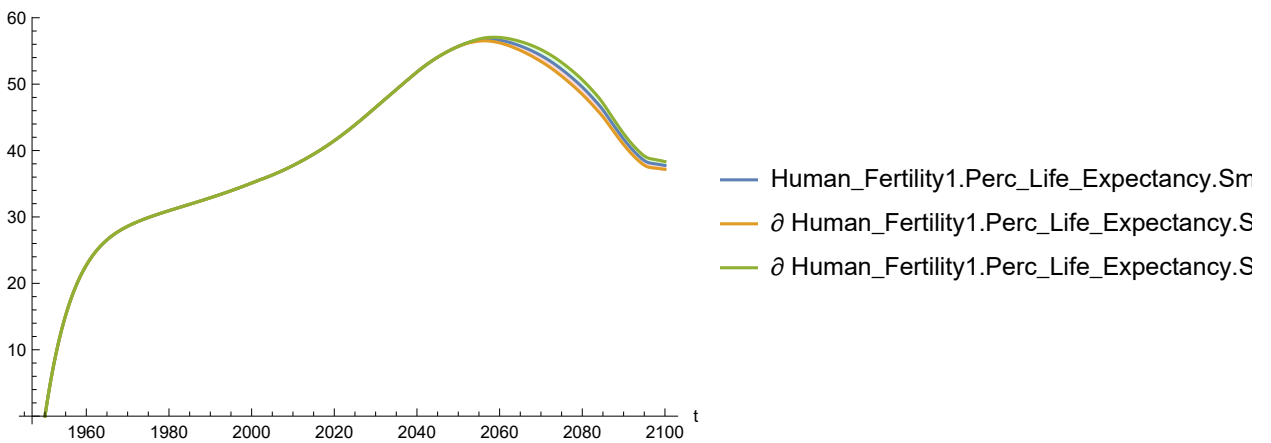
Out[133]=



In[134]:=

```
SystemModelPlot[simsensdata,
  {"Human_Fertility1.Perc_Life_Expectancy.Smooth1.Integrator1.y",
   "Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[3]", percentvar}]
```

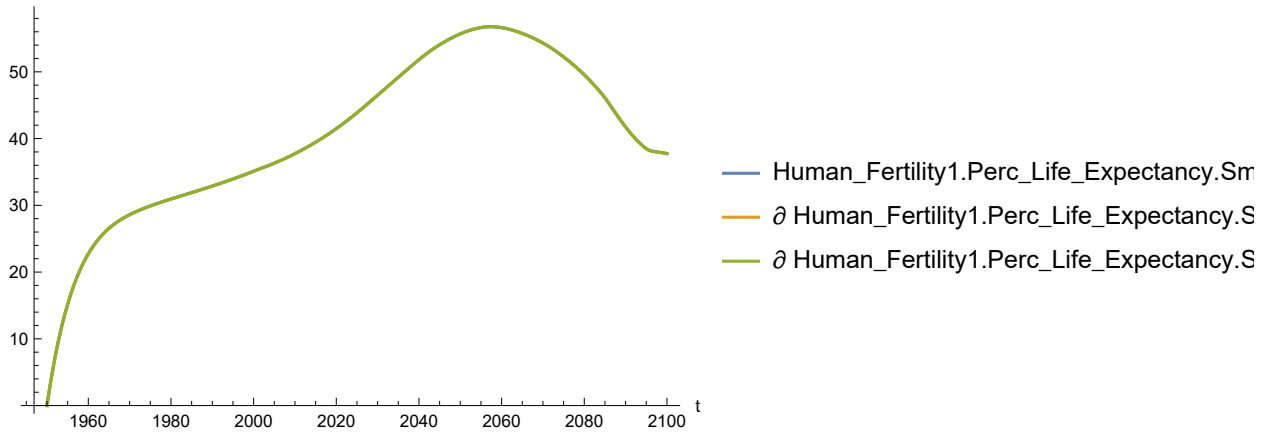
Out[134]=



In[135]:=

```
SystemModelPlot[simsensdata,
  {"Human_Fertility1.Perc_Life_Expectancy.Smooth1.Integrator1.y",
   "Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[4]", percentvar}]
```

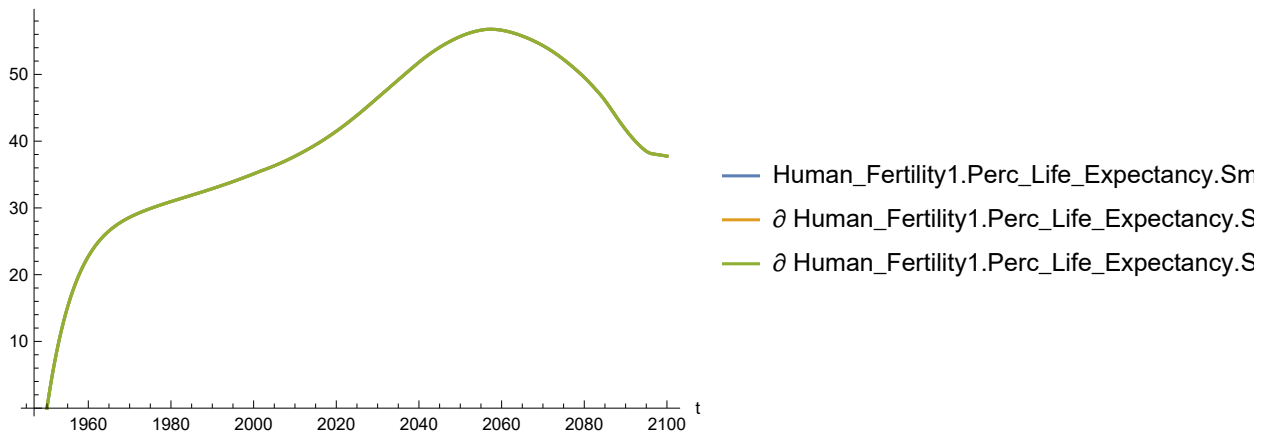
Out[135]=



In[136]:=

```
SystemModelPlot[simsensdata,
  {"Human_Fertility1.Perc_Life_Expectancy.Smooth1.Integrator1.y",
   "Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[5]", percentvar}]
```

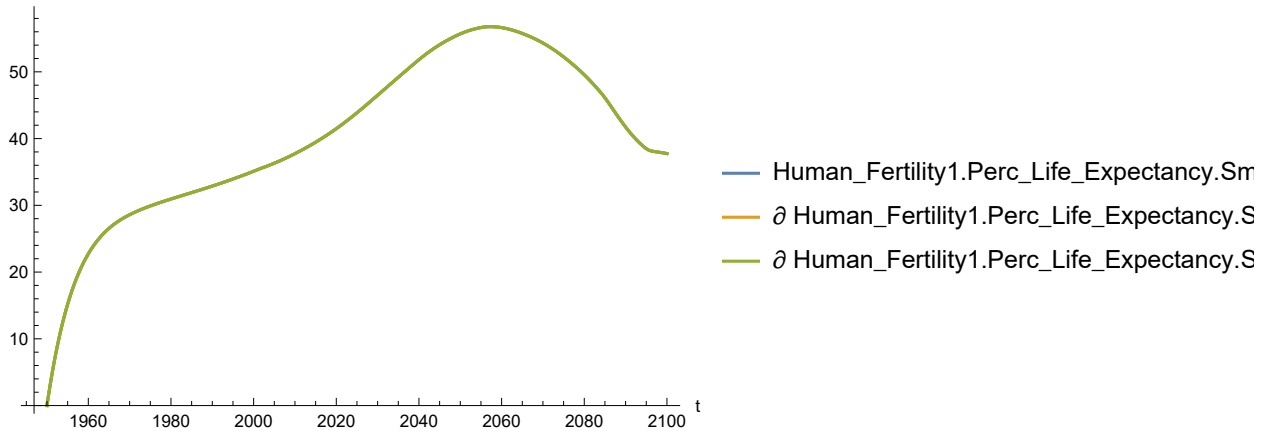
Out[136]=



In[137]:=

```
SystemModelPlot[simsensdata,
  {"Human_Fertility1.Perc_Life_Expectancy.Smooth1.Integrator1.y",
   "Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[6]", percentvar}]
```

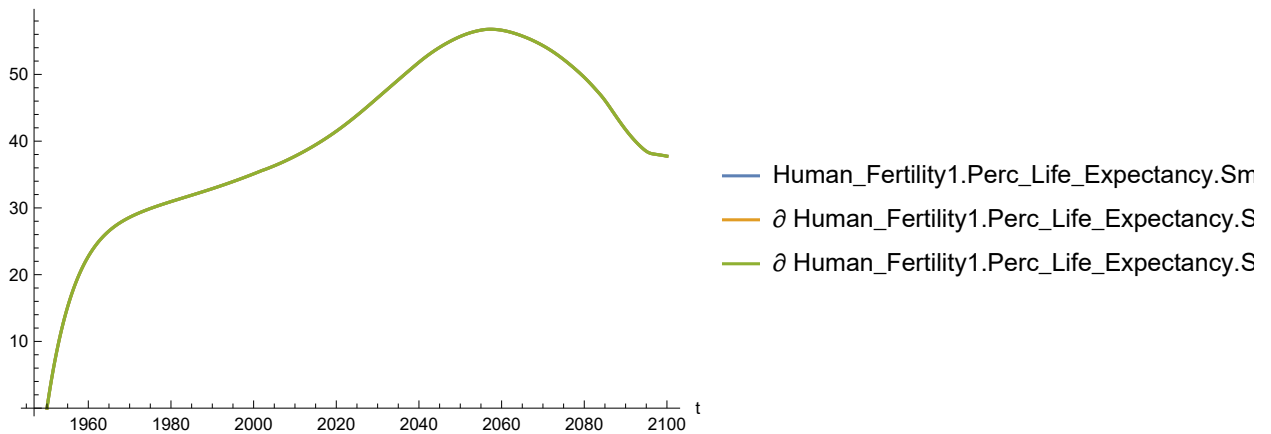
Out[137]=



In[138]:=

```
SystemModelPlot[simsensdata,
  {"Human_Fertility1.Perc_Life_Expectancy.Smooth1.Integrator1.y",
   "Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[7]", percentvar}]
```

Out[138]=

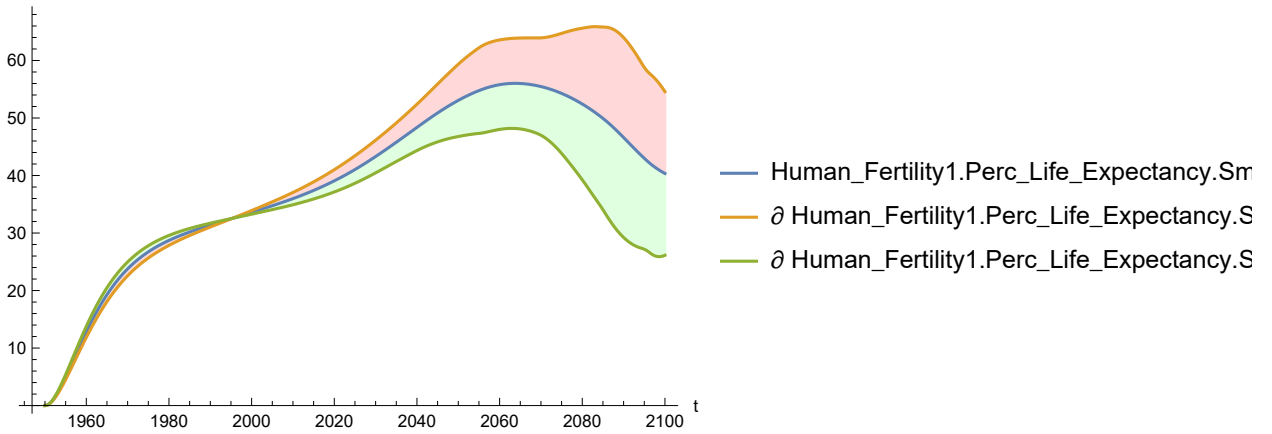


Plot the sensitivity of Human_Fertility1.Perc_Life_Expectancy.Smooth2.Integrator1.y to Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals.

In[139]:=

```
SystemModelPlot[simsensdata,
  {"Human_Fertility1.Perc_Life_Expectancy.Smooth2.Integrator1.y",
   "Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[1]", percentvar}]
```

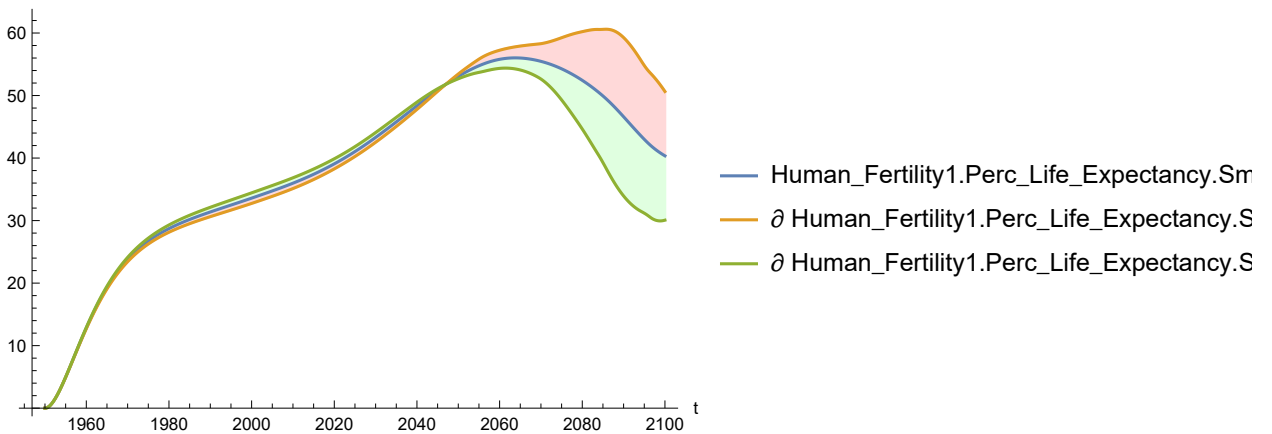
Out[139]=



In[140]:=

```
SystemModelPlot[simsensdata,
  {"Human_Fertility1.Perc_Life_Expectancy.Smooth2.Integrator1.y",
   "Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[2]", percentvar}]
```

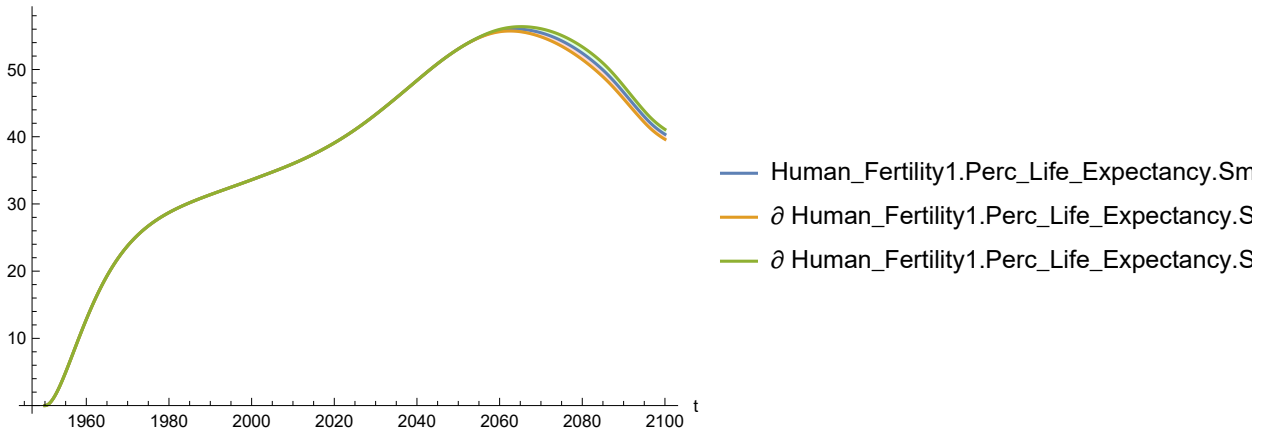
Out[140]=



In[141]:=

```
SystemModelPlot[simsensdata,
  {"Human_Fertility1.Perc_Life_Expectancy.Smooth2.Integrator1.y",
   "Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[3]", percentvar}]
```

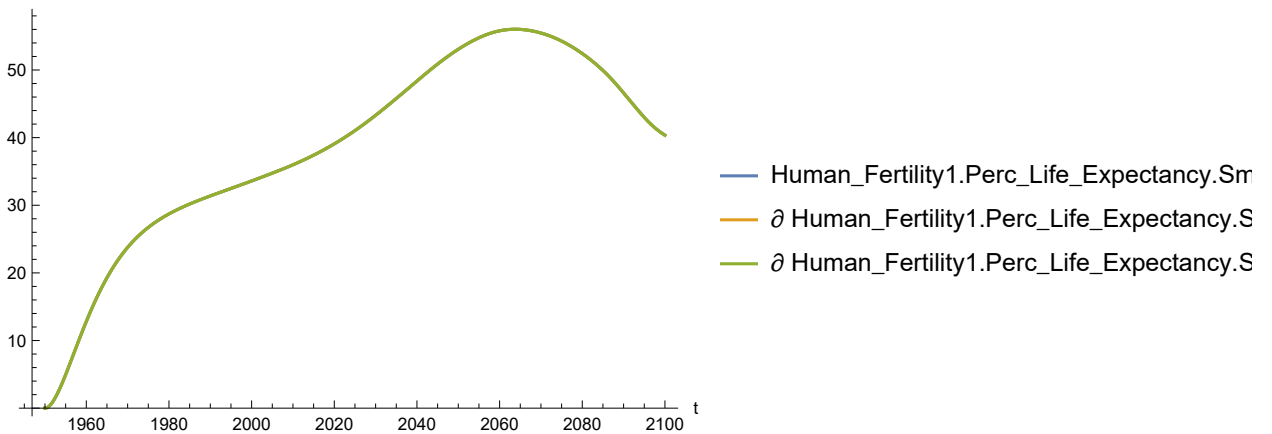
Out[141]=



In[142]:=

```
SystemModelPlot[simsensdata,
  {"Human_Fertility1.Perc_Life_Expectancy.Smooth2.Integrator1.y",
   "Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[4]", percentvar}]
```

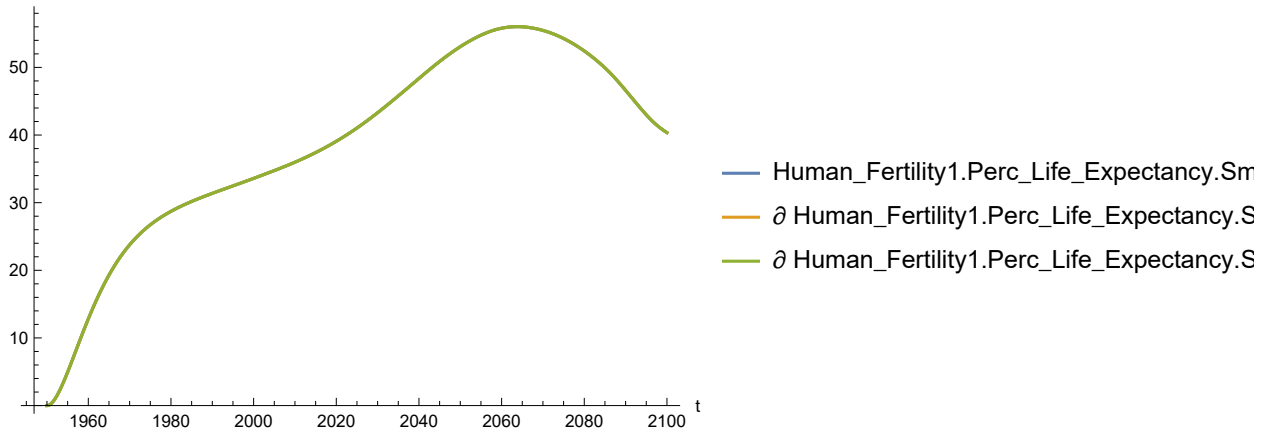
Out[142]=



In[143]:=

```
SystemModelPlot[simsensdata,
  {"Human_Fertility1.Perc_Life_Expectancy.Smooth2.Integrator1.y",
   "Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[5]", percentvar}]
```

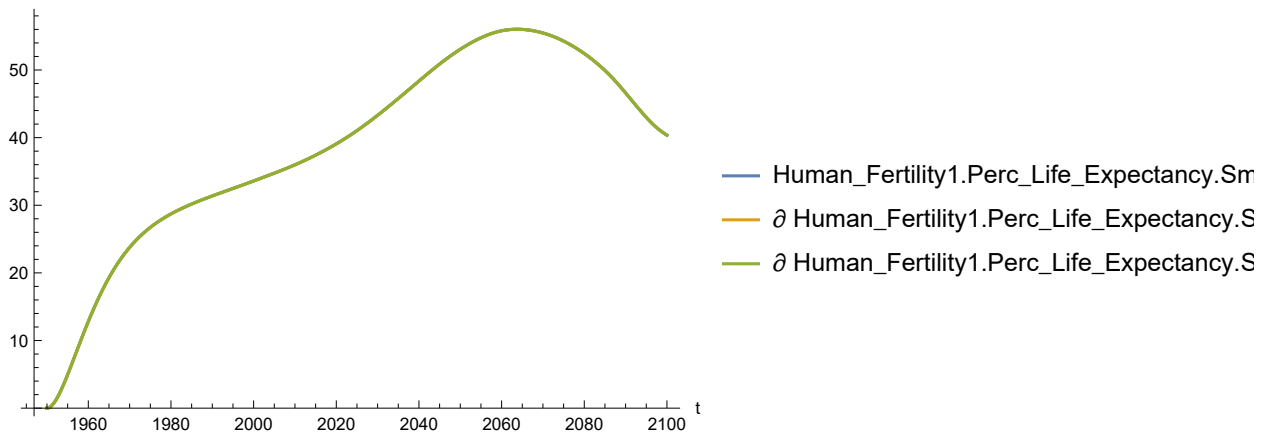
Out[143]=



In[144]:=

```
SystemModelPlot[simsensdata,
  {"Human_Fertility1.Perc_Life_Expectancy.Smooth2.Integrator1.y",
   "Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[6]", percentvar}]
```

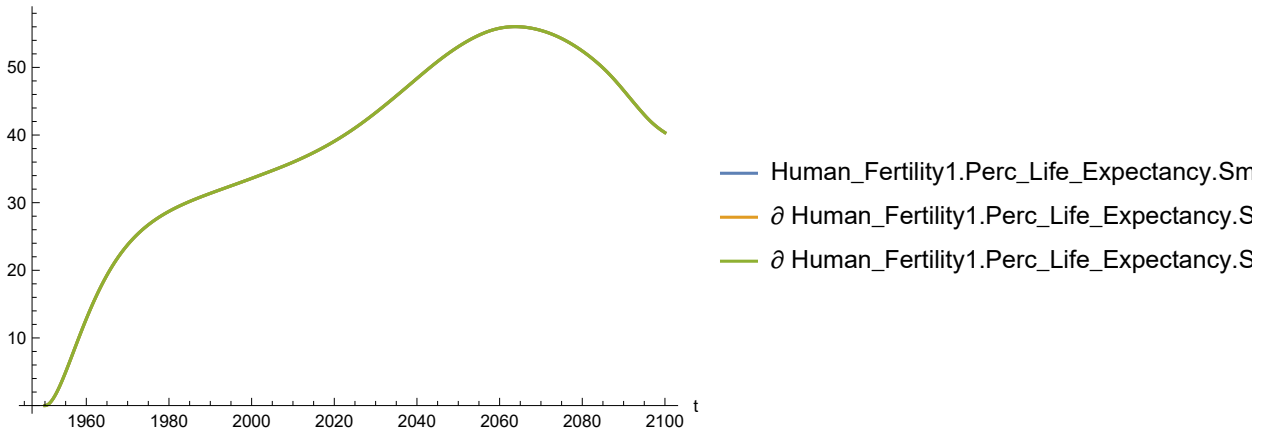
Out[144]=



In[145]:=

```
SystemModelPlot[simsensdata,
  {"Human_Fertility1.Perc_Life_Expectancy.Smooth2.Integrator1.y",
   "Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[7]", percentvar}]
```

Out[145]=

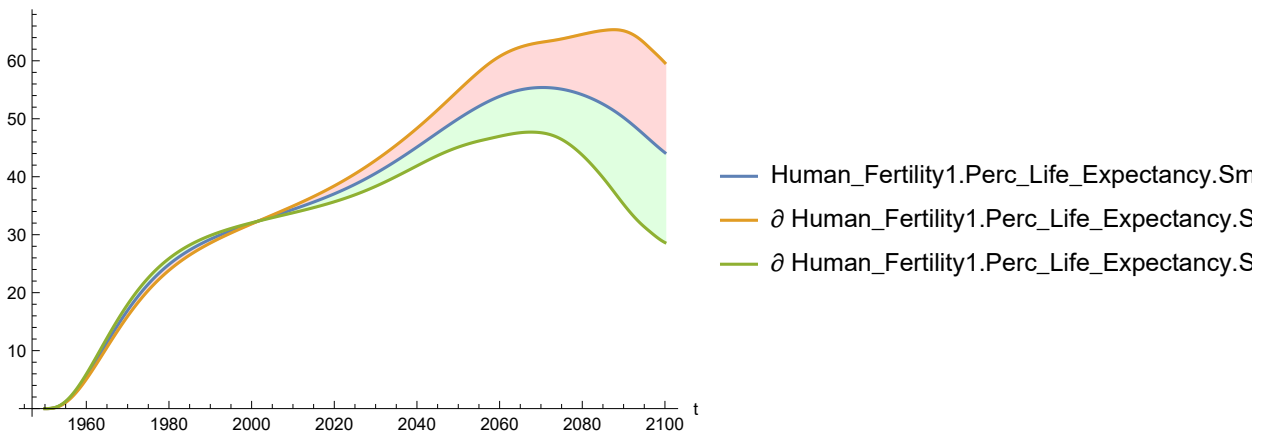


Plot the sensitivity of Human_Fertility1.Perc_Life_Expectancy.Smooth3.Integrator1.y to Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals.

In[146]:=

```
SystemModelPlot[simsensdata,
  {"Human_Fertility1.Perc_Life_Expectancy.Smooth3.Integrator1.y",
   "Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[1]", percentvar}]
```

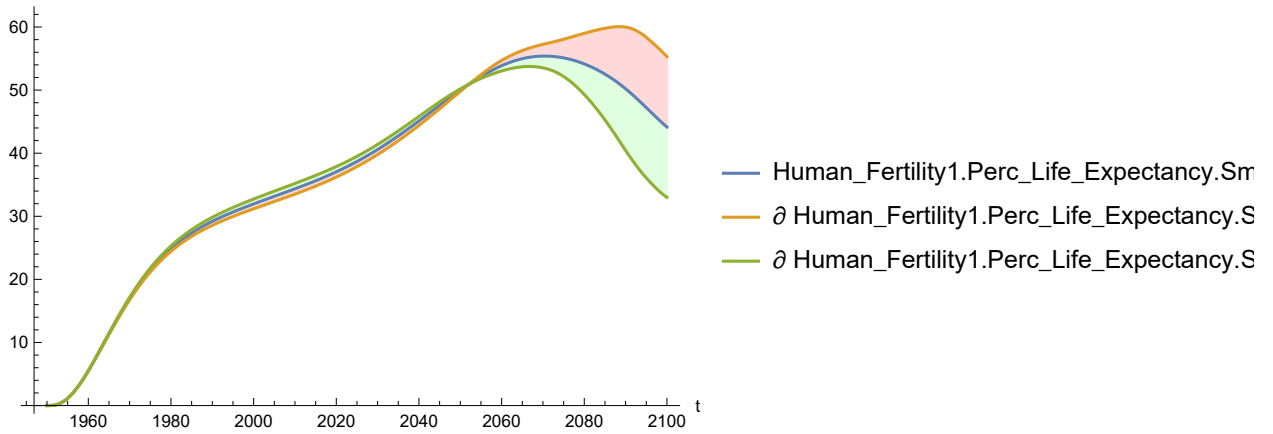
Out[146]=



In[147]:=

```
SystemModelPlot[simsensdata,
  {"Human_Fertility1.Perc_Life_Expectancy.Smooth3.Integrator1.y",
   "Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[2]", percentvar}]
```

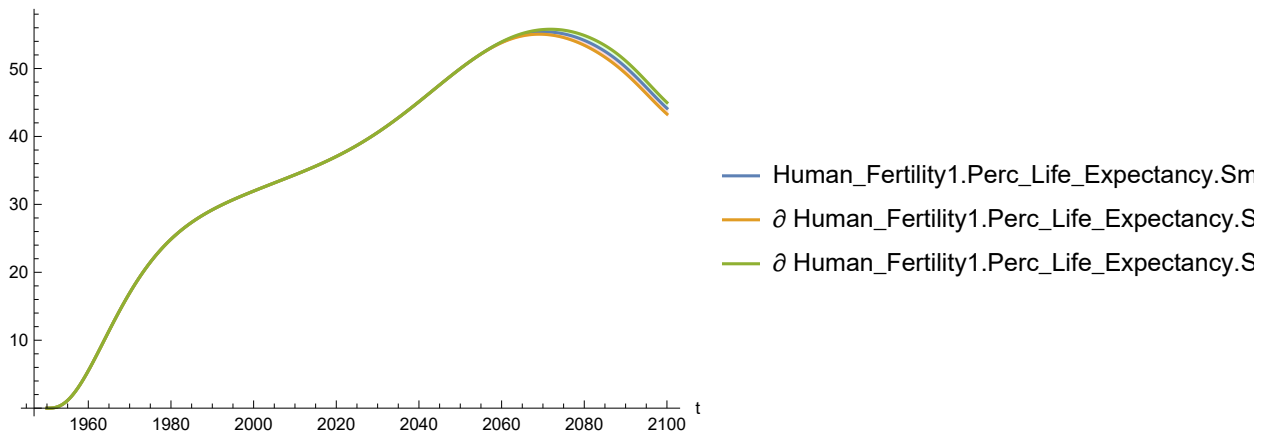
Out[147]=



In[148]:=

```
SystemModelPlot[simsensdata,
  {"Human_Fertility1.Perc_Life_Expectancy.Smooth3.Integrator1.y",
   "Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[3]", percentvar}]
```

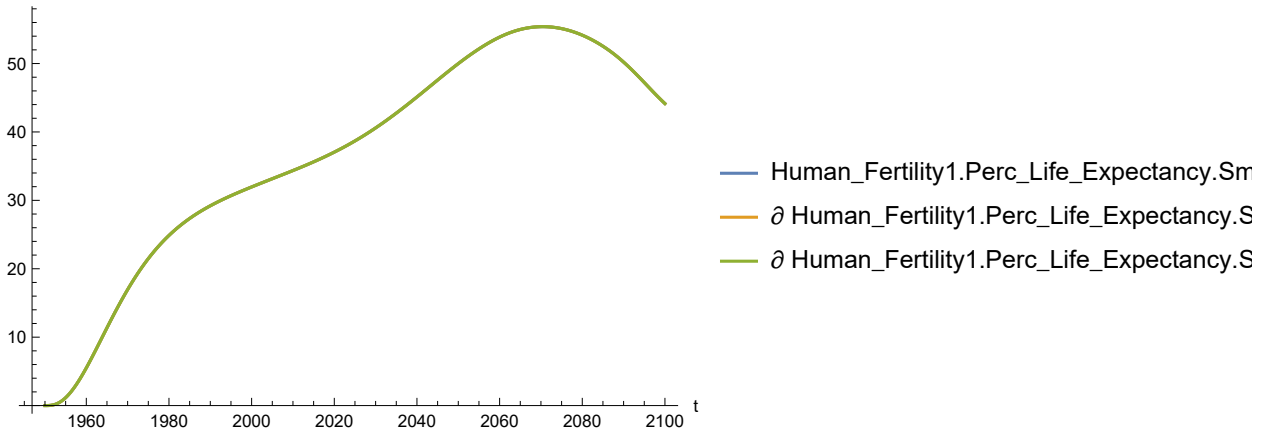
Out[148]=



In[149]:=

```
SystemModelPlot[simsensdata,
  {"Human_Fertility1.Perc_Life_Expectancy.Smooth3.Integrator1.y",
   "Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[4]", percentvar}]
```

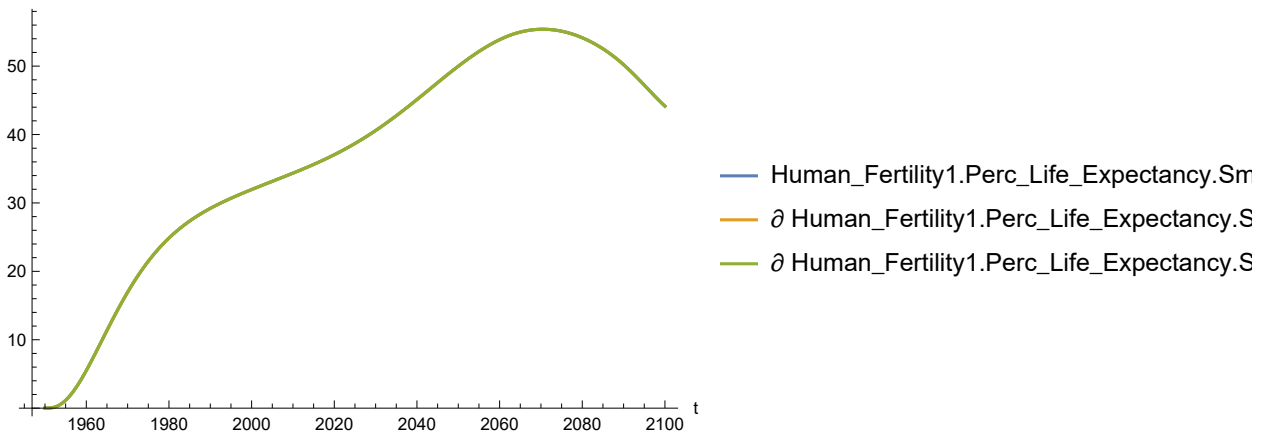
Out[149]=



In[150]:=

```
SystemModelPlot[simsensdata,
  {"Human_Fertility1.Perc_Life_Expectancy.Smooth3.Integrator1.y",
   "Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[5]", percentvar}]
```

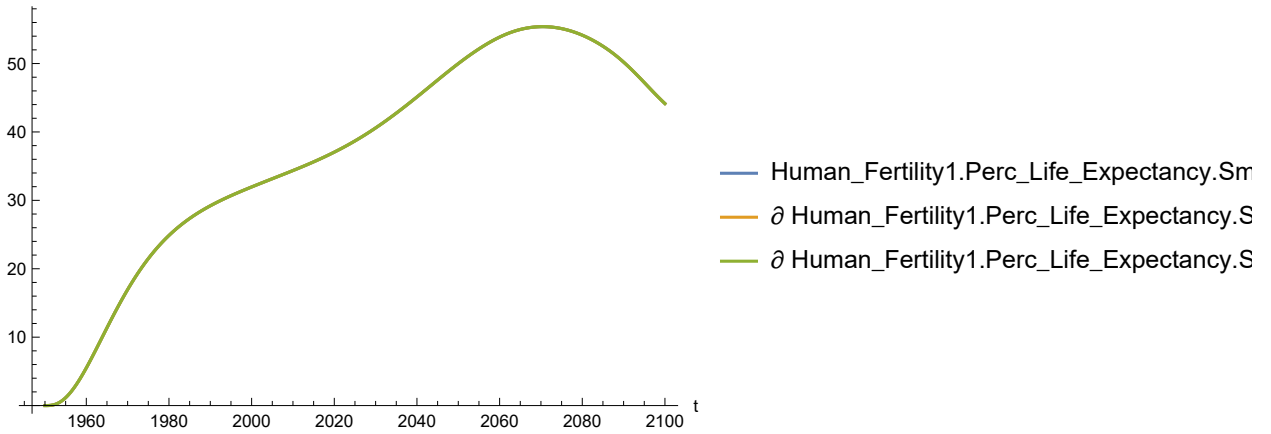
Out[150]=



In[151]:=

```
SystemModelPlot[simsensdata,
  {"Human_Fertility1.Perc_Life_Expectancy.Smooth3.Integrator1.y",
   "Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[6]", percentvar}]
```

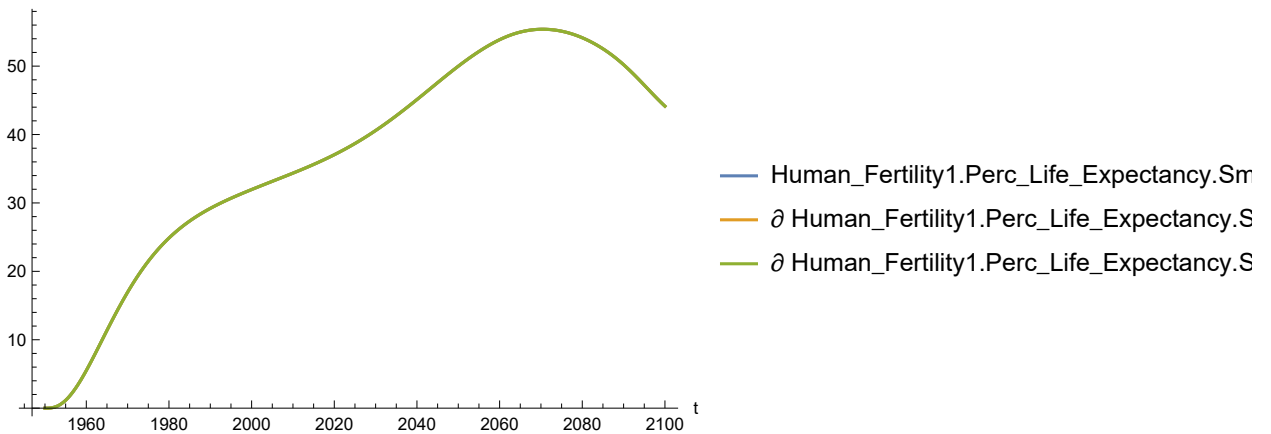
Out[151]=



In[152]:=

```
SystemModelPlot[simsensdata,
  {"Human_Fertility1.Perc_Life_Expectancy.Smooth3.Integrator1.y",
   "Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[7]", percentvar}]
```

Out[152]=

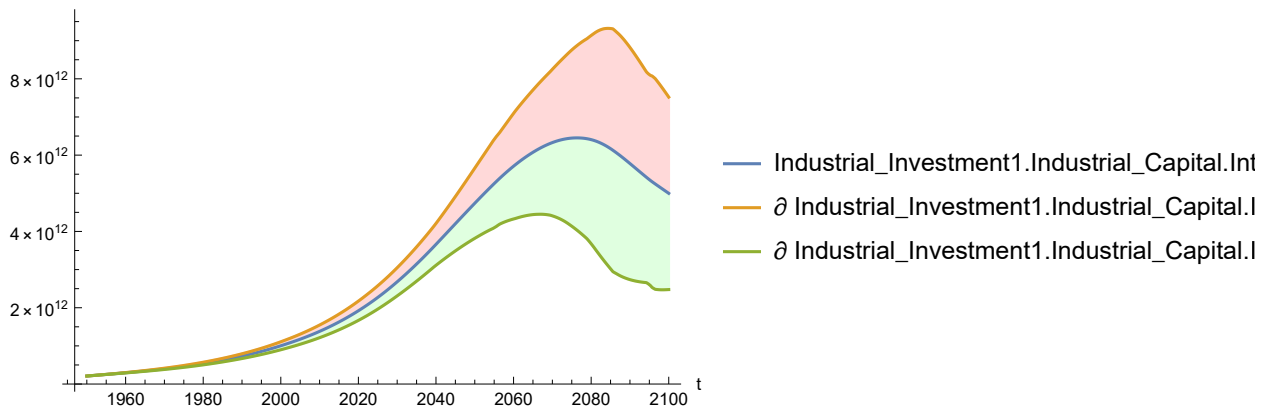


Plot the sensitivity of Industrial_Investment1.Industrial_Capital.Integrator1.y to Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals.

In[153]:=

```
SystemModelPlot[simsensdata, {"Industrial_Investment1.Industrial_Capital.Integrator1.y",
"Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[1]", percentvar}]
```

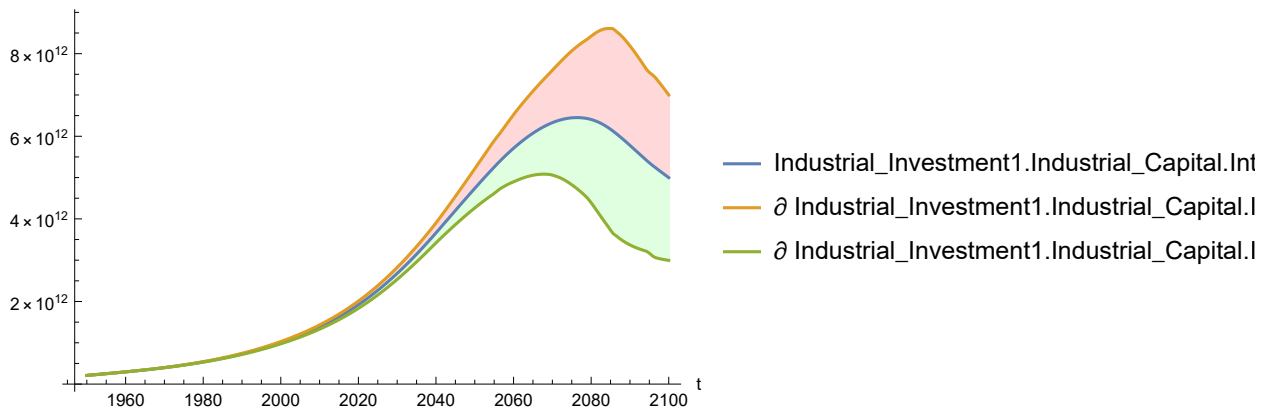
Out[153]:=



In[154]:=

```
SystemModelPlot[simsensdata, {"Industrial_Investment1.Industrial_Capital.Integrator1.y",
"Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[2]", percentvar}]
```

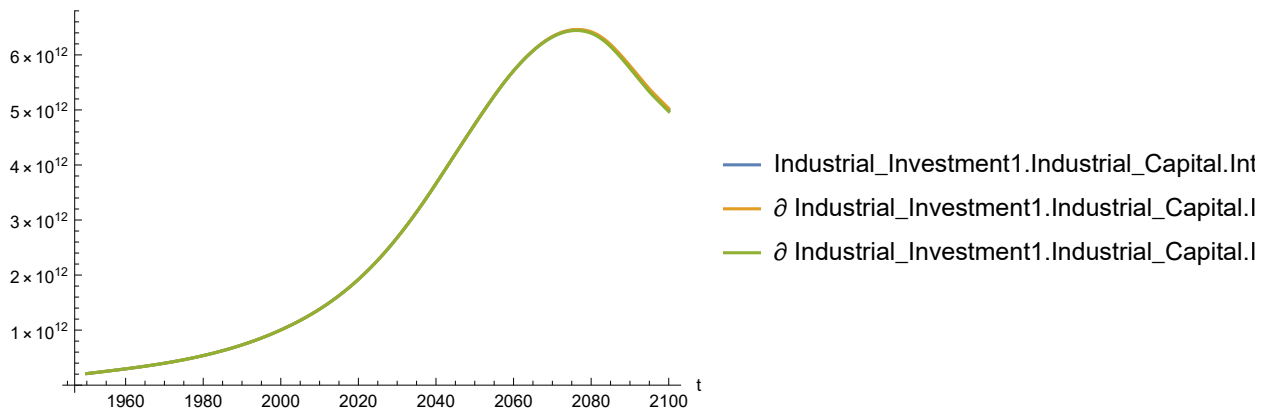
Out[154]:=



In[155]:=

```
SystemModelPlot[simsensdata, {"Industrial_Investment1.Industrial_Capital.Integrator1.y",
"Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[3]", percentvar}]
```

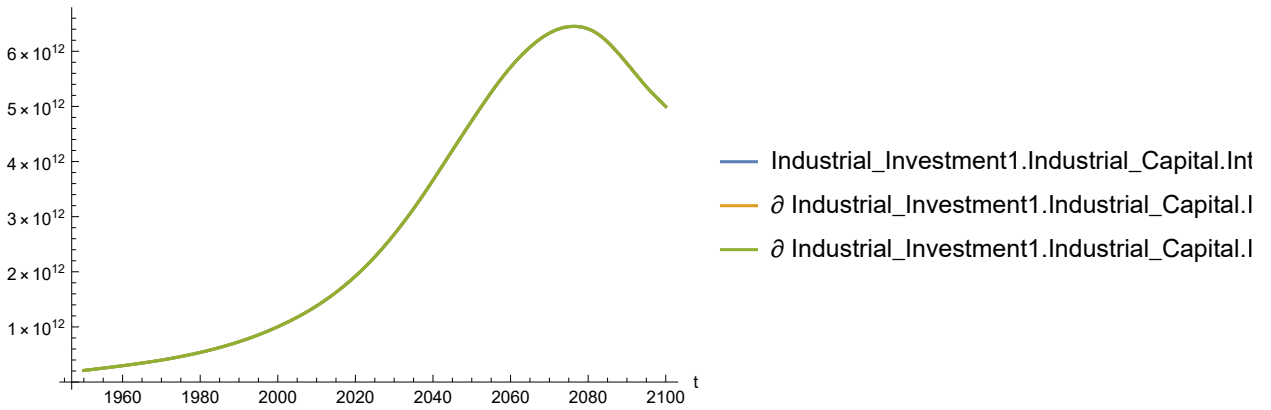
Out[155]:=



In[156]:=

```
SystemModelPlot[simsensdata, {"Industrial_Investment1.Industrial_Capital.Integrator1.y",
"Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[4]", percentvar}]
```

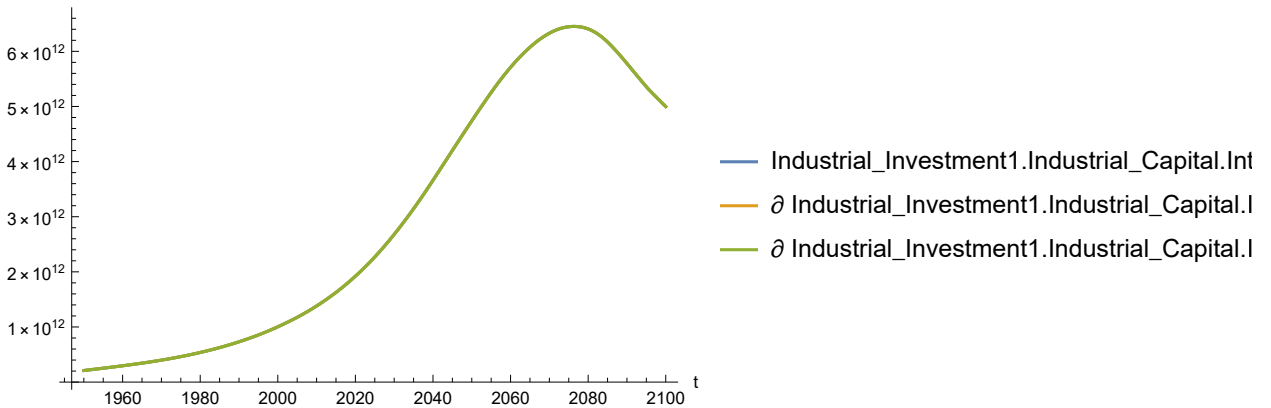
Out[156]=



In[157]:=

```
SystemModelPlot[simsensdata, {"Industrial_Investment1.Industrial_Capital.Integrator1.y",
"Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[5]", percentvar}]
```

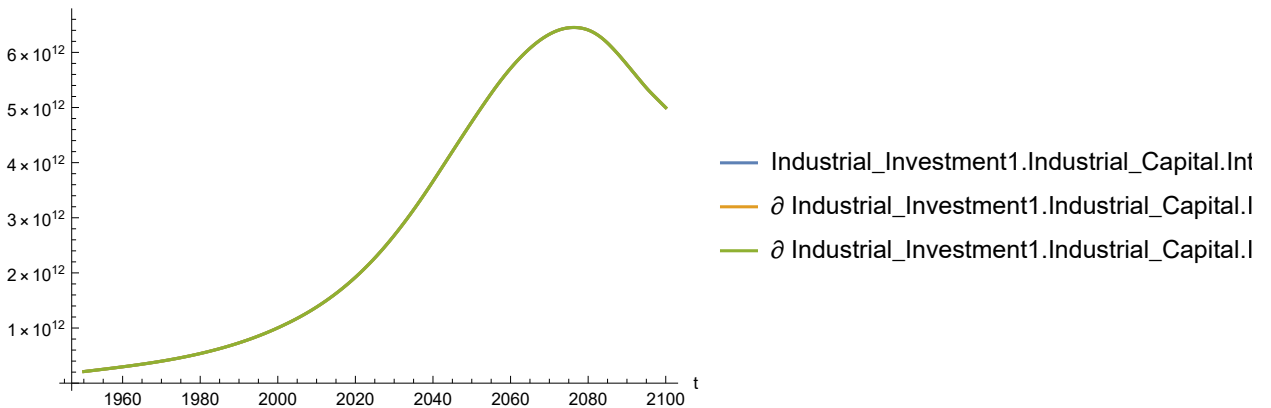
Out[157]=



In[158]:=

```
SystemModelPlot[simsensdata, {"Industrial_Investment1.Industrial_Capital.Integrator1.y",
"Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[6]", percentvar}]
```

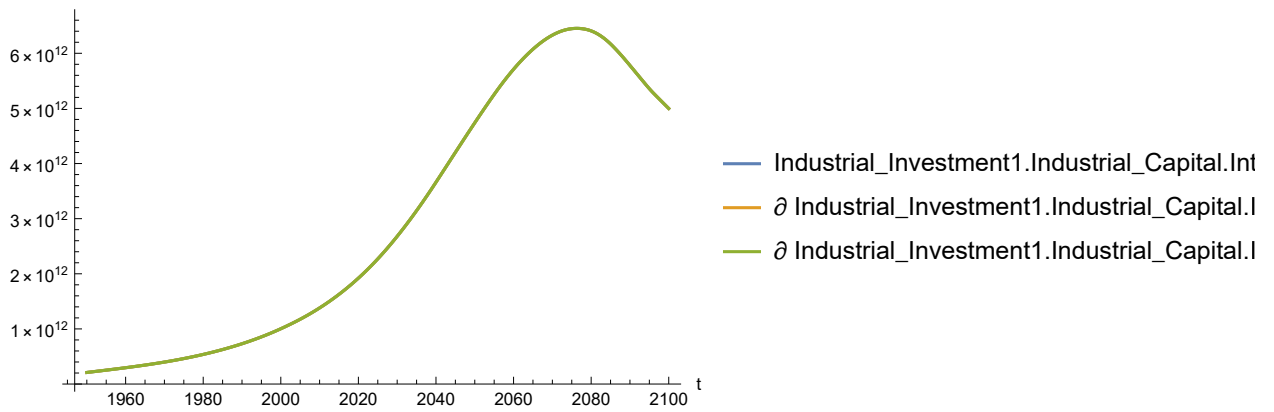
Out[158]=



In[159]:=

```
SystemModelPlot[simsensdata, {"Industrial_Investment1.Industrial_Capital.Integrator1.y",
"Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[7]", percentvar}]
```

Out[159]=

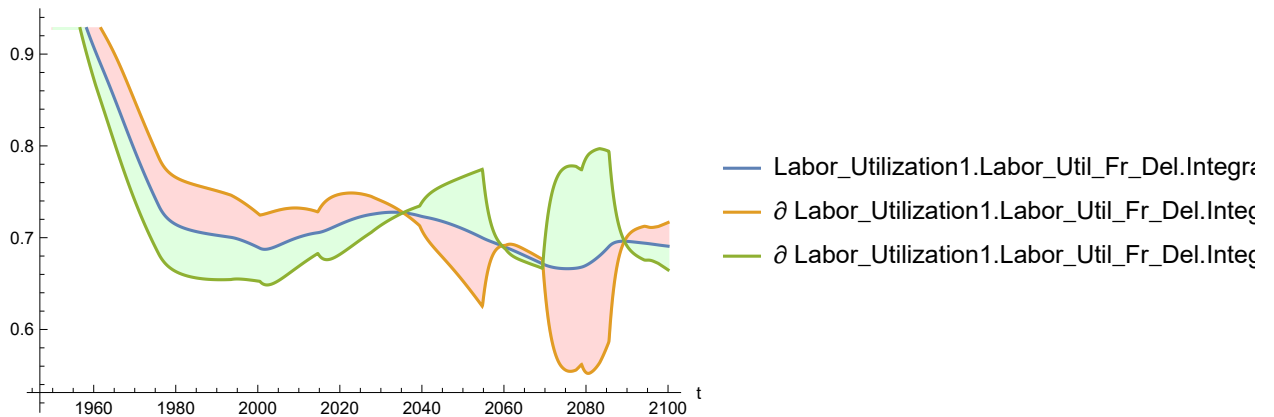


Plot the sensitivity of Labor_Utilization1.Labor_Util_Fr_Del.Integrator1.y to Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals.

In[160]:=

```
SystemModelPlot[simsensdata, {"Labor_Utilization1.Labor_Util_Fr_Del.Integrator1.y",
"Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[1]", percentvar}]
```

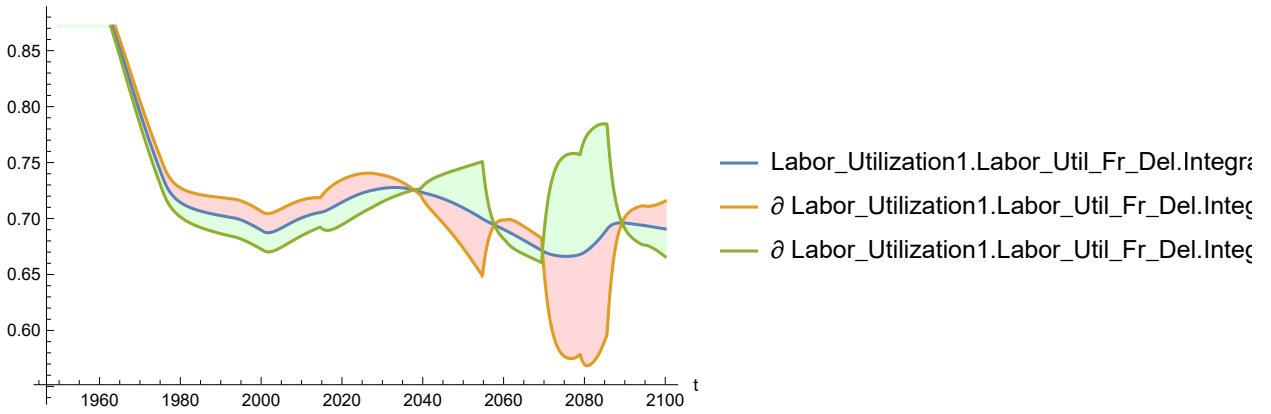
Out[160]=



In[161]:=

```
SystemModelPlot[simsensdata, {"Labor_Utilization1.Labor_Util_Fr_Del.Integrator1.y",
"Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[2]", percentvar}]
```

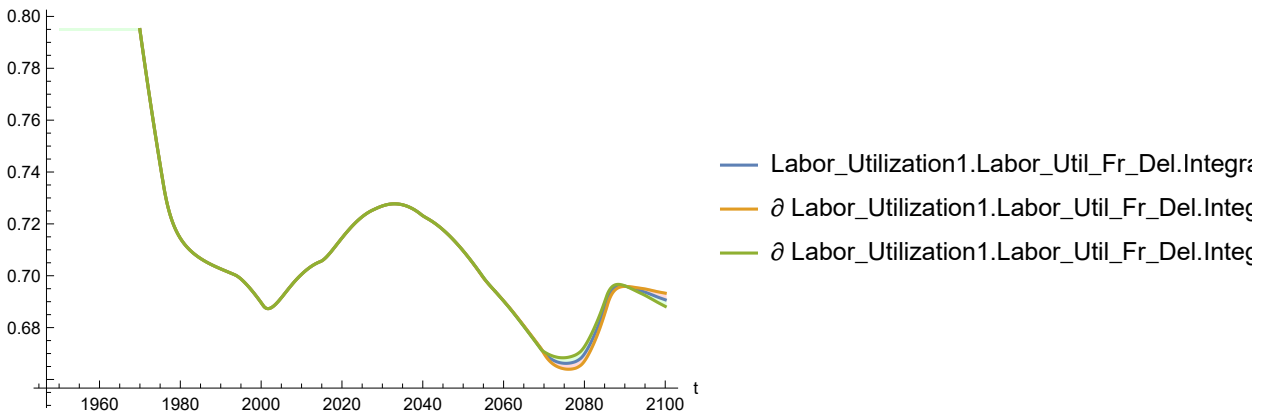
Out[161]=



In[162]:=

```
SystemModelPlot[simsensdata, {"Labor_Utilization1.Labor_Util_Fr_Del.Integrator1.y",
"Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[3]", percentvar}]
```

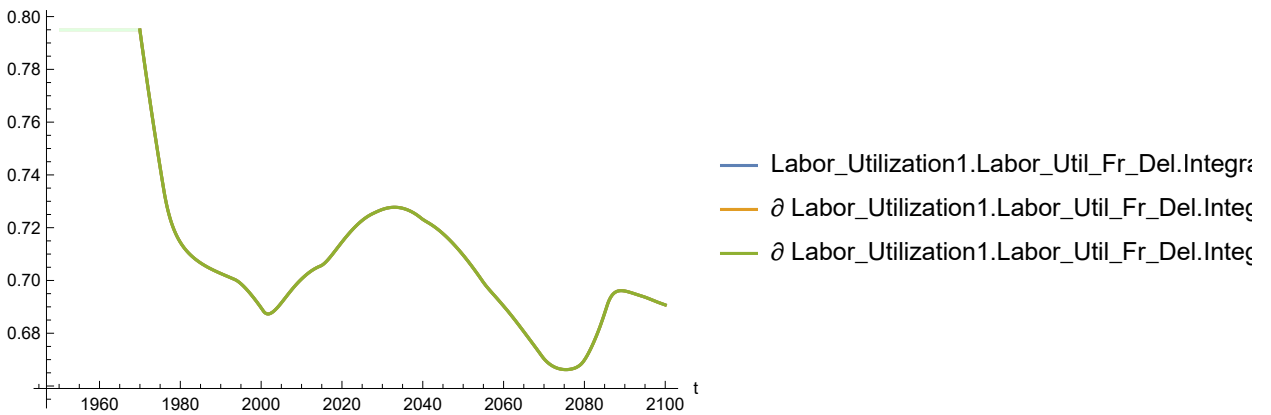
Out[162]=



In[163]:=

```
SystemModelPlot[simsensdata, {"Labor_Utilization1.Labor_Util_Fr_Del.Integrator1.y",
"Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[4]", percentvar}]
```

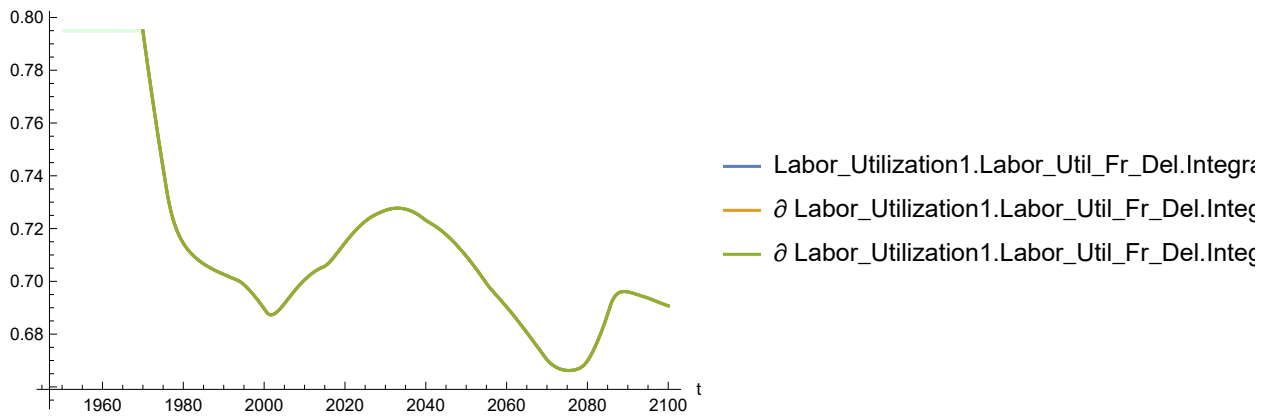
Out[163]=



In[164]:=

```
SystemModelPlot[simsensdata, {"Labor_Utilization1.Labor_Util_Fr_Del.Integrator1.y",
"Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[5]", percentvar}]
```

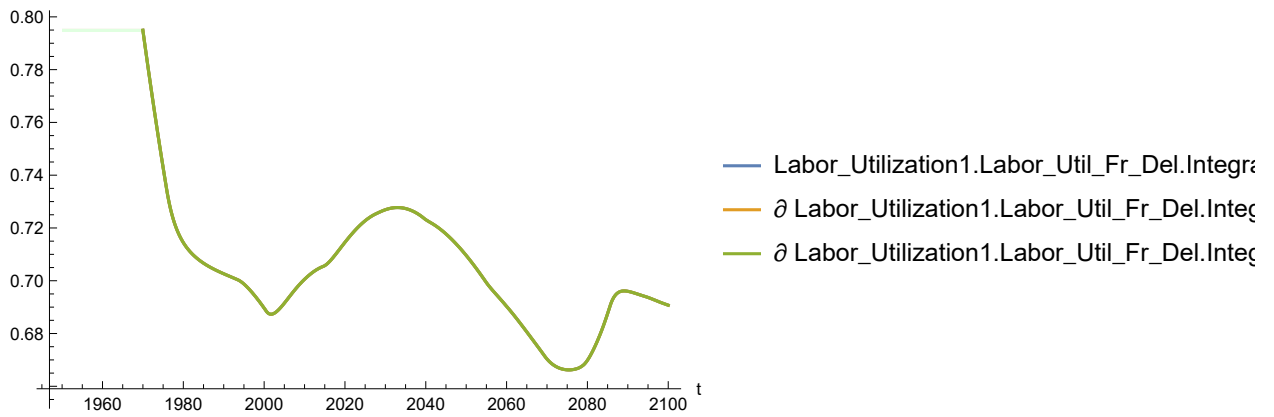
Out[164]=



In[165]:=

```
SystemModelPlot[simsensdata, {"Labor_Utilization1.Labor_Util_Fr_Del.Integrator1.y",
"Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[6]", percentvar}]
```

Out[165]=



In[166]:=

```
SystemModelPlot[simsensdata, {"Labor_Utilization1.Labor_Util_Fr_Del.Integrator1.y",
"Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[7]", percentvar}]
```

Out[166]=

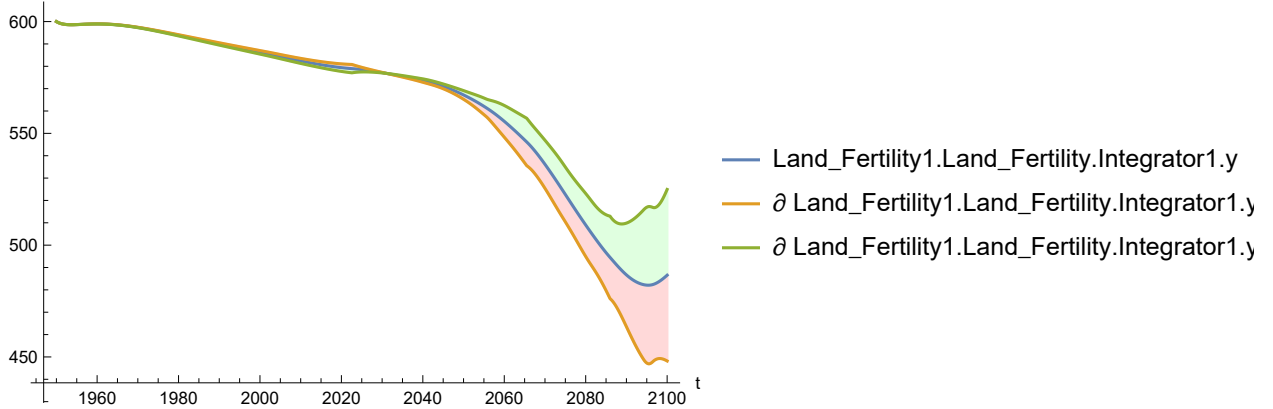


Plot the sensitivity of Land_Fertility1.Land_Fertility.Integrator1.y to Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals.

In[167]:=

```
SystemModelPlot[simsensdata, {"Land_Fertility1.Land_Fertility.Integrator1.y",
    "Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[1]", percentvar}]
```

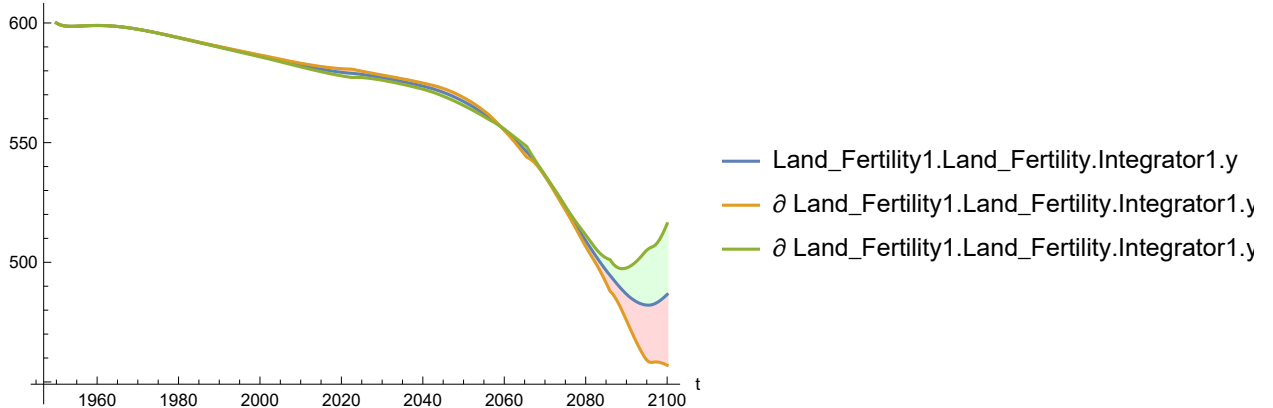
Out[167]=



In[168]:=

```
SystemModelPlot[simsensdata, {"Land_Fertility1.Land_Fertility.Integrator1.y",
    "Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[2]", percentvar}]
```

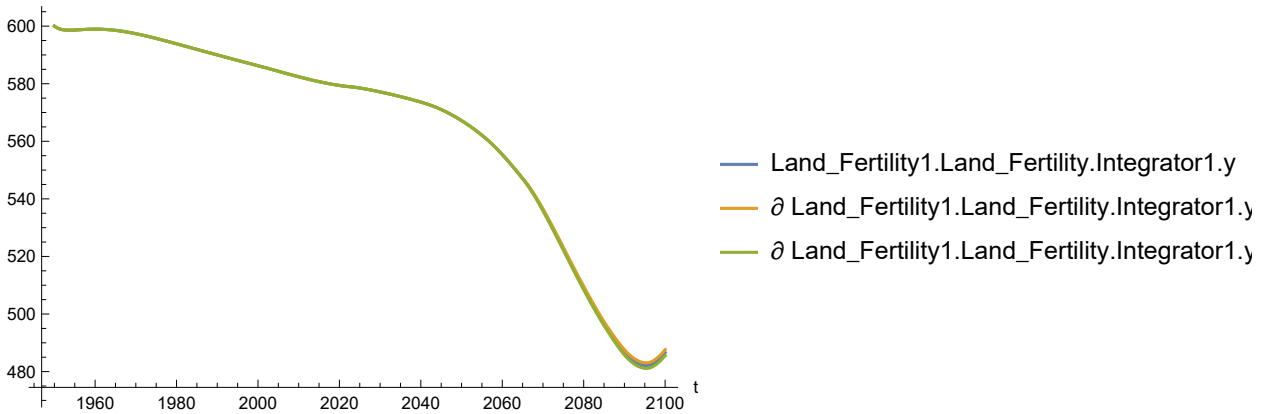
Out[168]=



In[169]:=

```
SystemModelPlot[simsensdata, {"Land_Fertility1.Land_Fertility.Integrator1.y",
    "Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[3]", percentvar}]
```

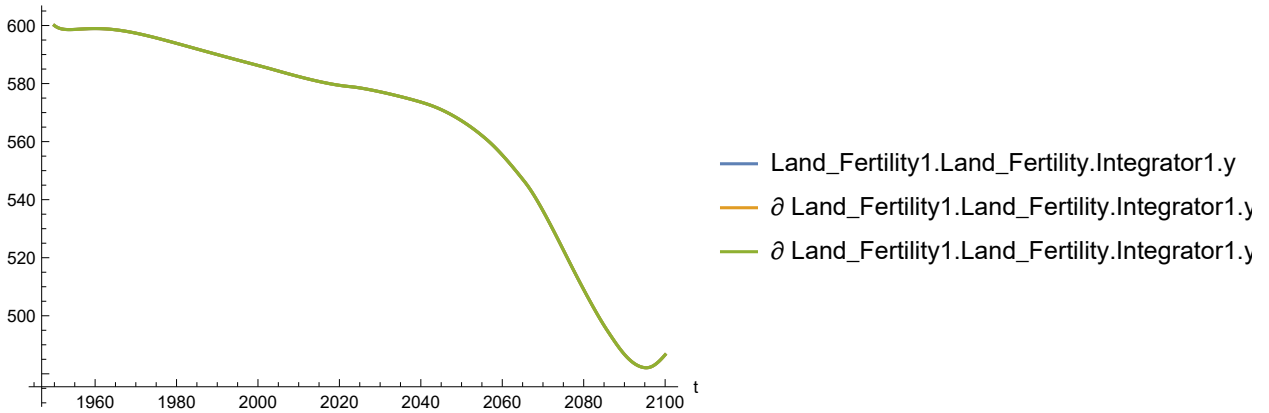
Out[169]=



In[170]:=

```
SystemModelPlot[simsensdata, {"Land_Fertility1.Land_Fertility.Integrator1.y",
    "Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[4]", percentvar}]
```

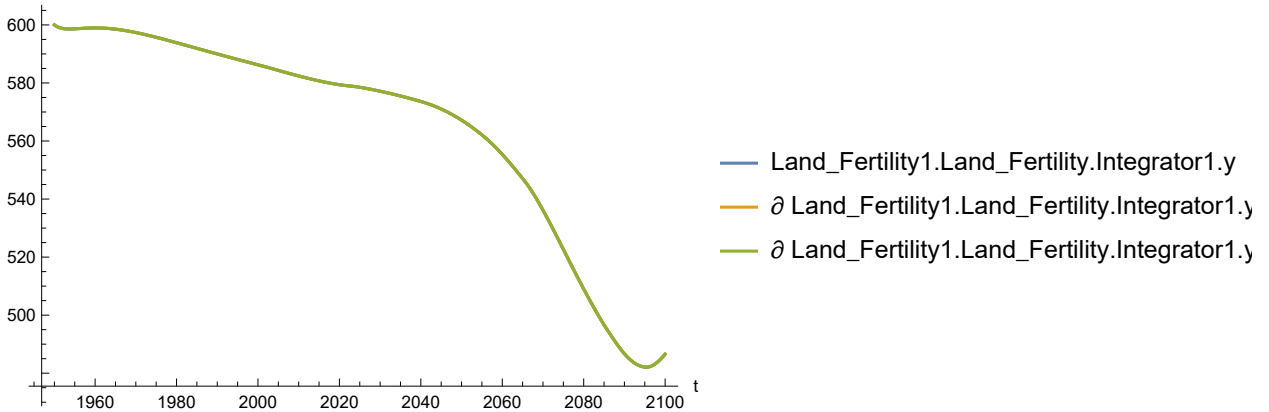
Out[170]=



In[171]:=

```
SystemModelPlot[simsensdata, {"Land_Fertility1.Land_Fertility.Integrator1.y",
    "Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[5]", percentvar}]
```

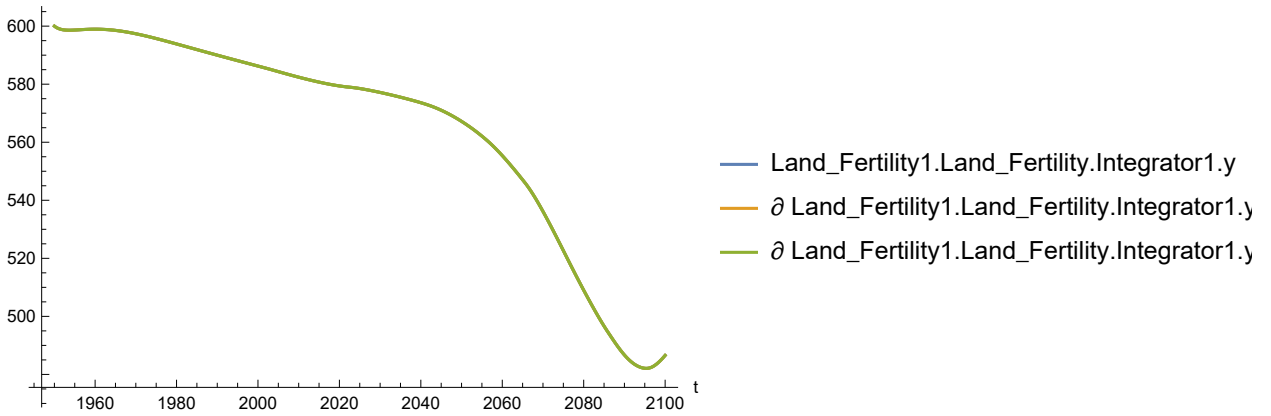
Out[171]=



In[172]:=

```
SystemModelPlot[simsensdata, {"Land_Fertility1.Land_Fertility.Integrator1.y",
    "Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[6]", percentvar}]
```

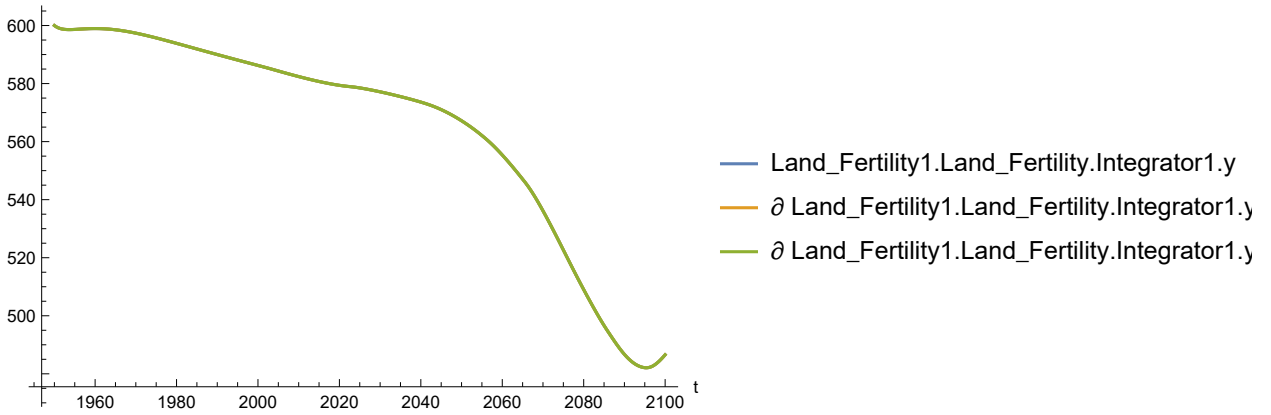
Out[172]=



In[173]:=

```
SystemModelPlot[simsensdata, {"Land_Fertility1.Land_Fertility.Integrator1.y",
    "Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[7]", percentvar}]
```

Out[173]=

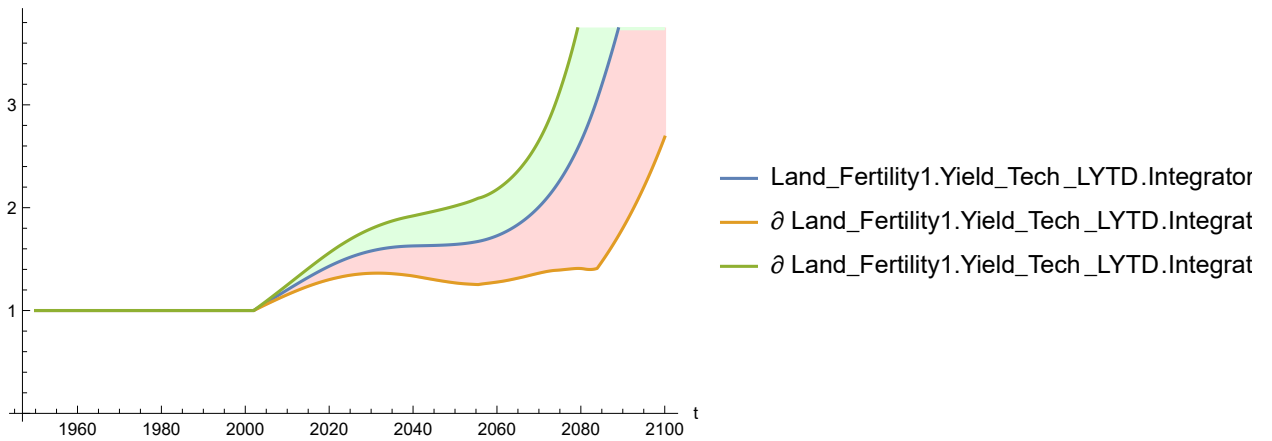


Plot the sensitivity of Land_Fertility1.Yield_Tech_LYTD.Integrator1.y to Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals.

In[174]:=

```
SystemModelPlot[simsensdata, {"Land_Fertility1.Yield_Tech_LYTD.Integrator1.y",
"Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[1]", percentvar}]
```

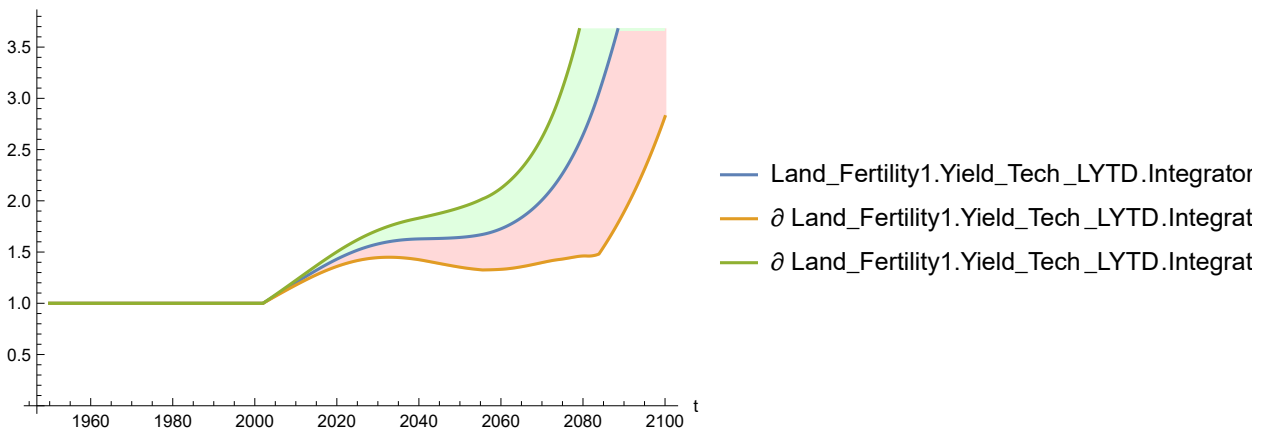
Out[174]=



In[175]:=

```
SystemModelPlot[simsensdata, {"Land_Fertility1.Yield_Tech_LYTD.Integrator1.y",
"Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[2]", percentvar}]
```

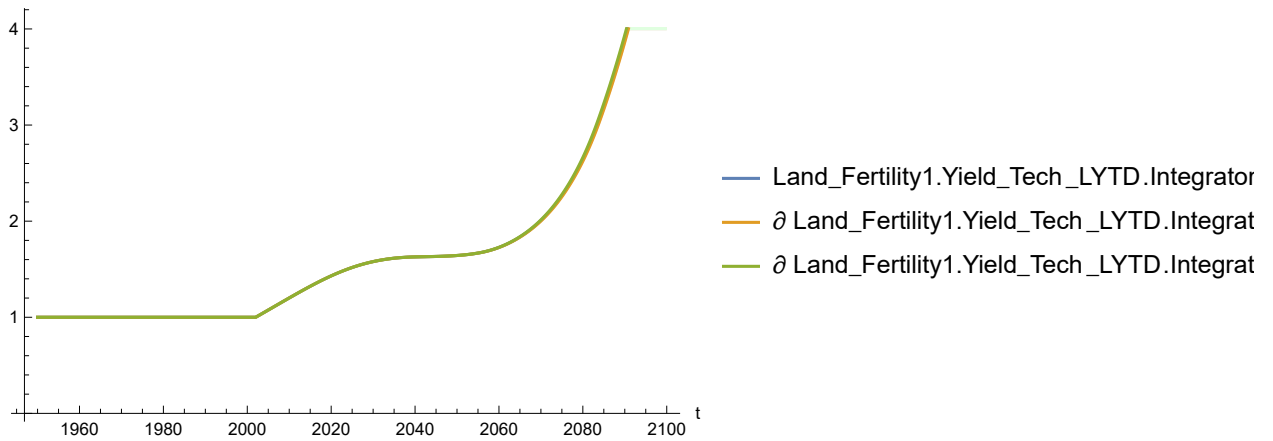
Out[175]=



In[176]:=

```
SystemModelPlot[simsensdata, {"Land_Fertility1.Yield_Tech_LYTD.Integrator1.y",
    "Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[3]", percentvar}]
```

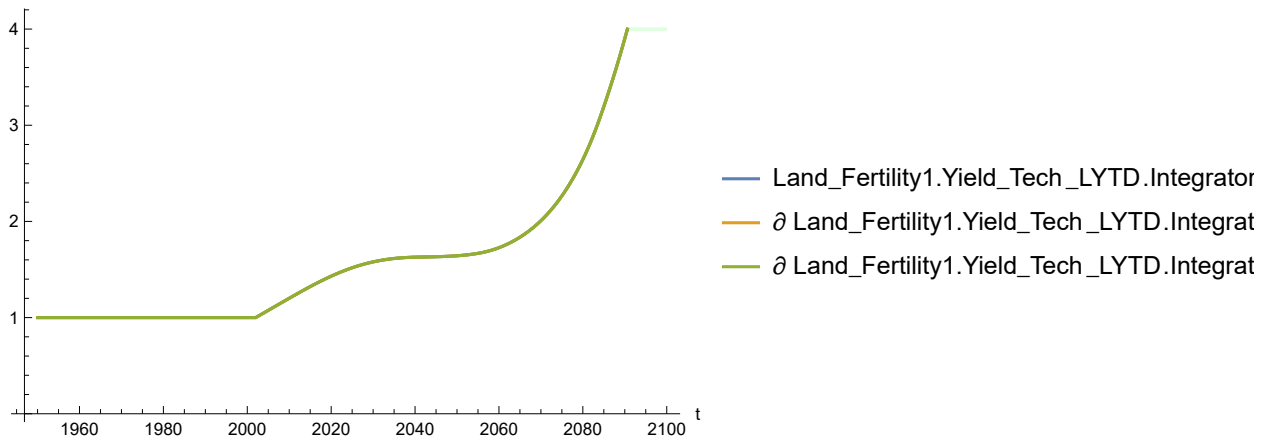
Out[176]=



In[177]:=

```
SystemModelPlot[simsensdata, {"Land_Fertility1.Yield_Tech_LYTD.Integrator1.y",
    "Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[4]", percentvar}]
```

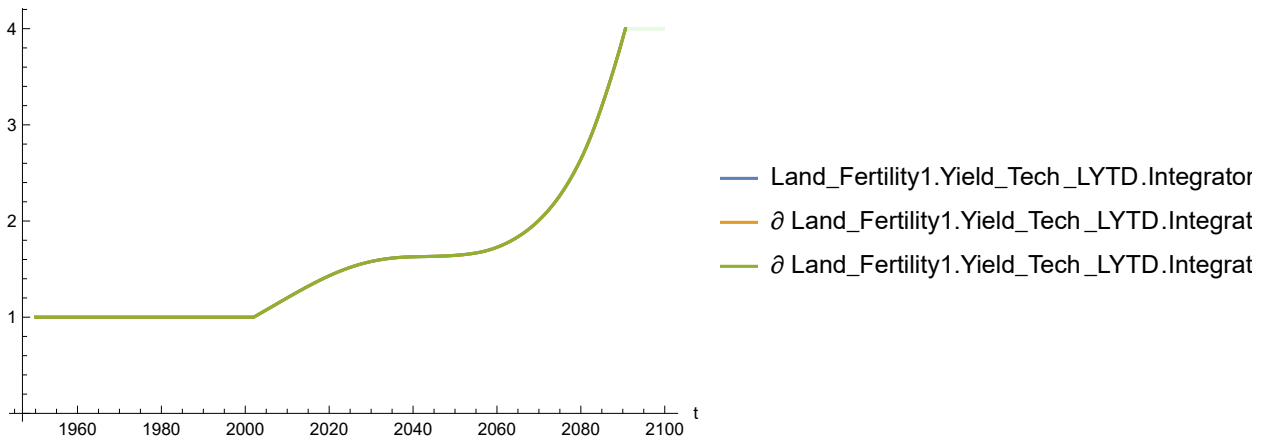
Out[177]=



In[178]:=

```
SystemModelPlot[simsensdata, {"Land_Fertility1.Yield_Tech_LYTD.Integrator1.y",
"Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[5]", percentvar}]
```

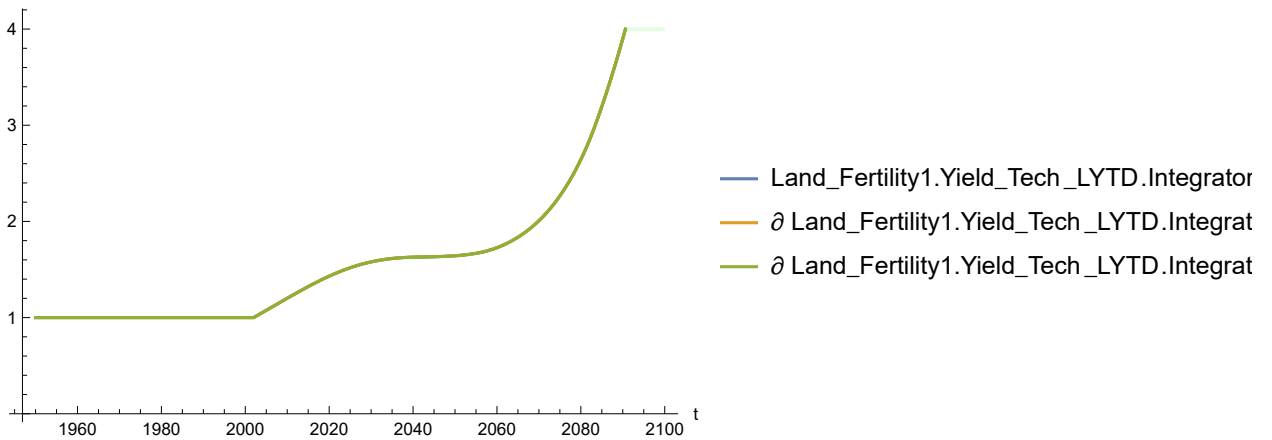
Out[178]=



In[179]:=

```
SystemModelPlot[simsensdata, {"Land_Fertility1.Yield_Tech_LYTD.Integrator1.y",
"Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[6]", percentvar}]
```

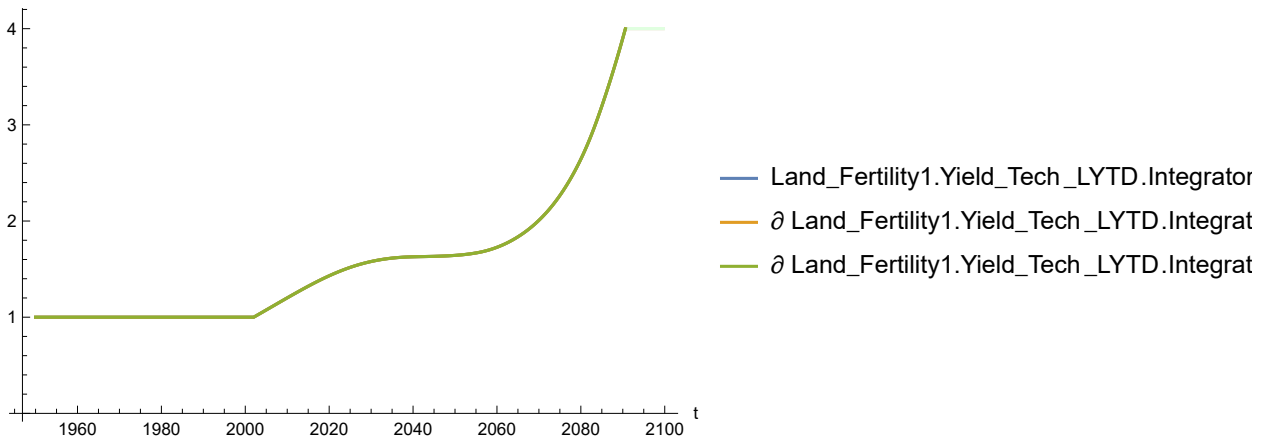
Out[179]=



In[180]:=

```
SystemModelPlot[simsensdata, {"Land_Fertility1.Yield_Tech_LYTD.Integrator1.y",
    "Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[7]", percentvar}]
```

Out[180]=

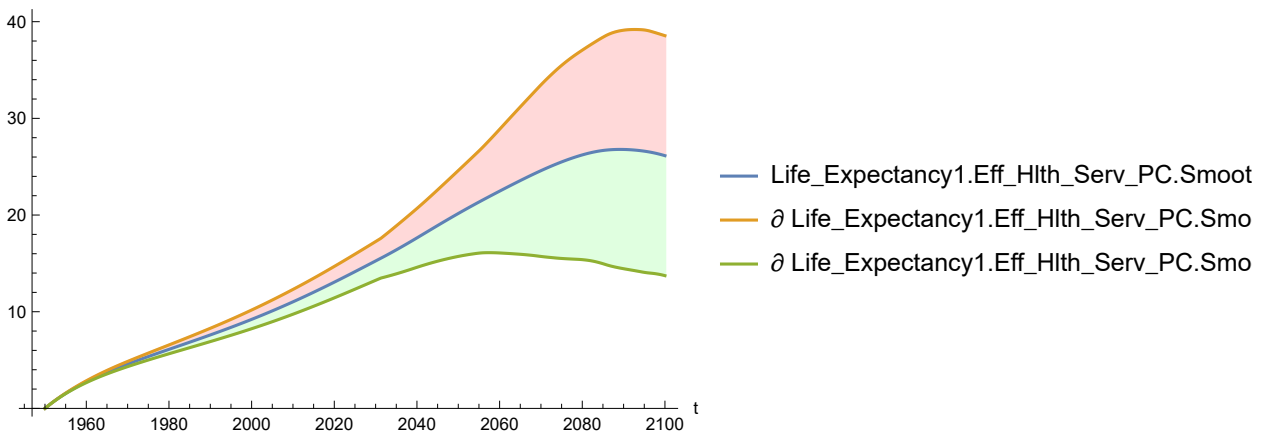


Plot the sensitivity of `Life_Expectancy1.Eff_Hlth_Serv_PC.Smooth_of_Input.Integrator1.y` to `Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals`.

In[181]:=

```
SystemModelPlot[simsensdata,
    {"Life_Expectancy1.Eff_Hlth_Serv_PC.Smooth_of_Input.Integrator1.y",
    "Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[1]", percentvar}]
```

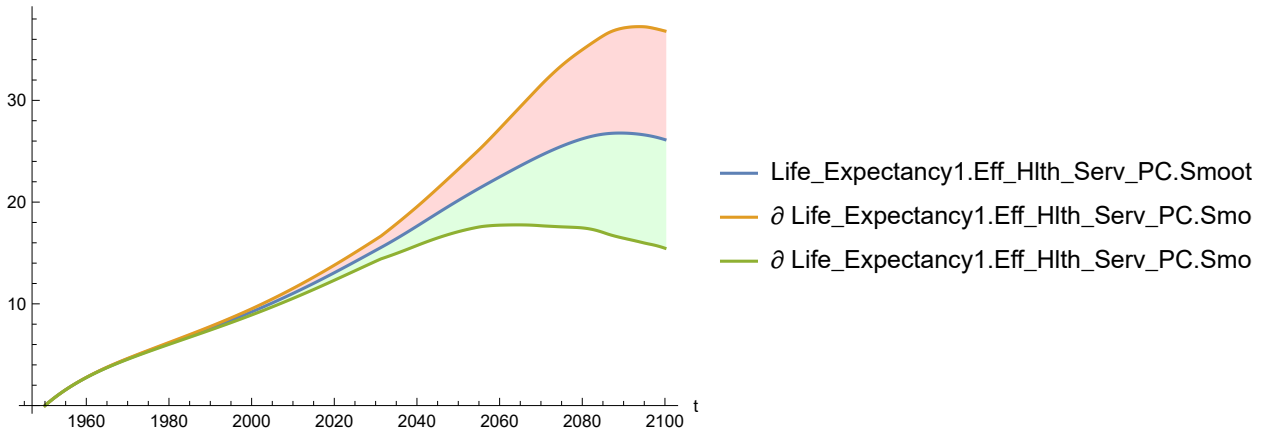
Out[181]=



In[182]:=

```
SystemModelPlot[simsensdata,
  {"Life_Expectancy1.Eff_Hlth_Serv_PC.Smooth_of_Input.Integrator1.y",
   "Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[2]", percentvar}]
```

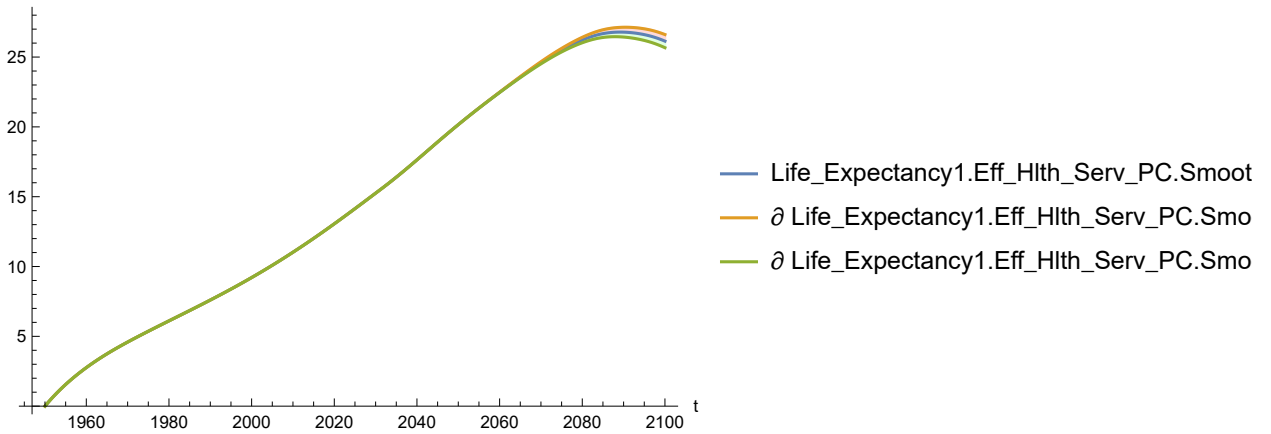
Out[182]=



In[183]:=

```
SystemModelPlot[simsensdata,
  {"Life_Expectancy1.Eff_Hlth_Serv_PC.Smooth_of_Input.Integrator1.y",
   "Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[3]", percentvar}]
```

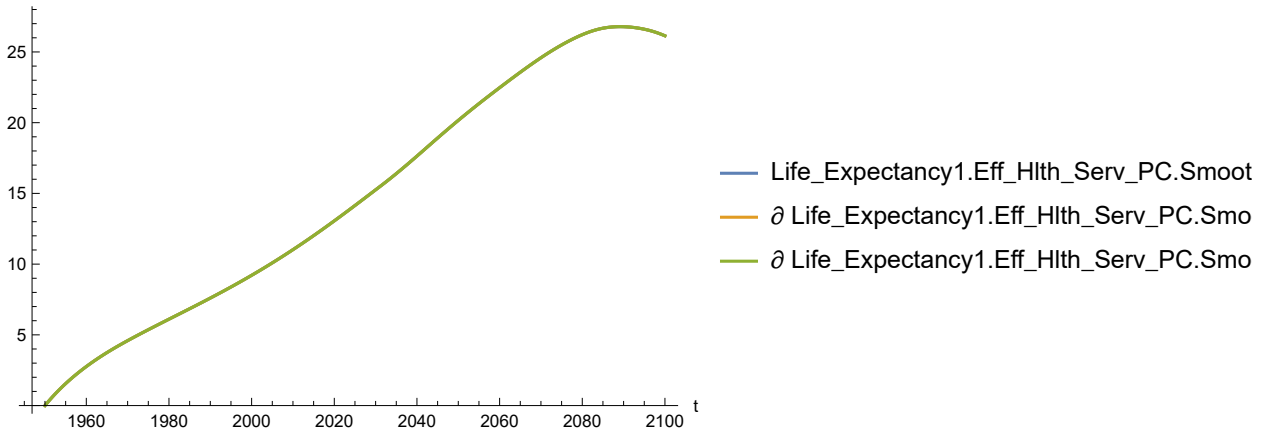
Out[183]=



In[184]:=

```
SystemModelPlot[simsensdata,
  {"Life_Expectancy1.Eff_Hlth_Serv_PC.Smooth_of_Input.Integrator1.y",
   "Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[4]", percentvar}]
```

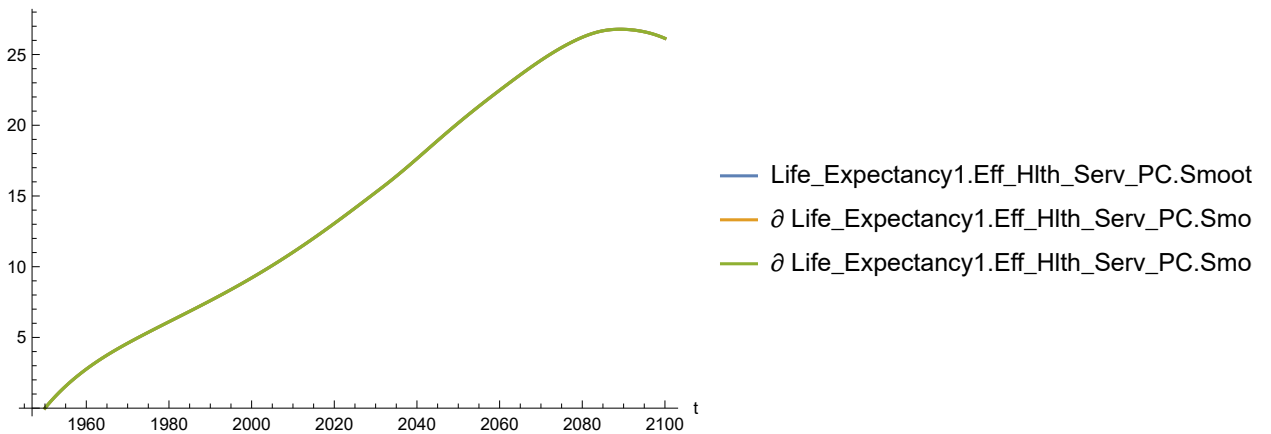
Out[184]=



In[185]:=

```
SystemModelPlot[simsensdata,
  {"Life_Expectancy1.Eff_Hlth_Serv_PC.Smooth_of_Input.Integrator1.y",
   "Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[5]", percentvar}]
```

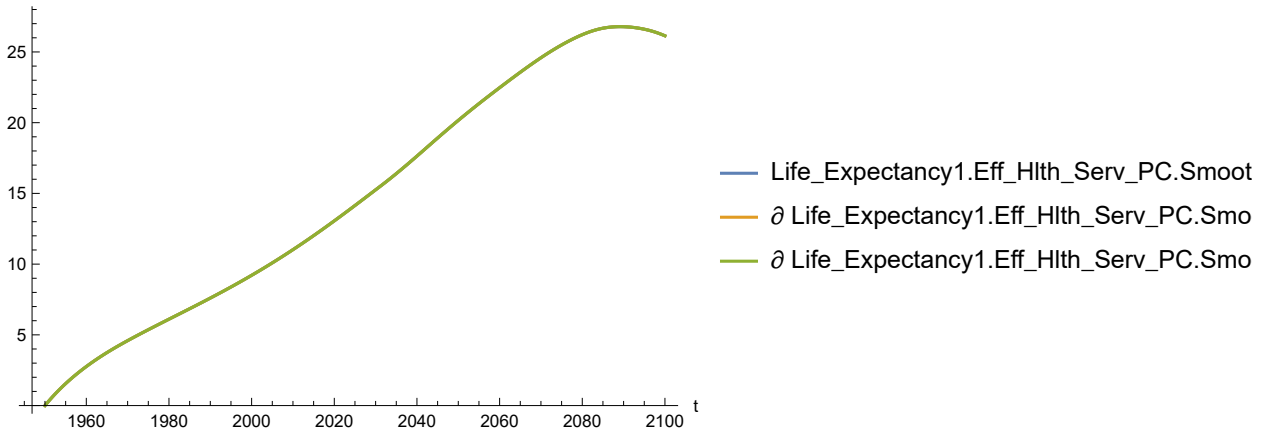
Out[185]=



In[186]:=

```
SystemModelPlot[simsensdata,
  {"Life_Expectancy1.Eff_Hlth_Serv_PC.Smooth_of_Input.Integrator1.y",
   "Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[6]", percentvar}]
```

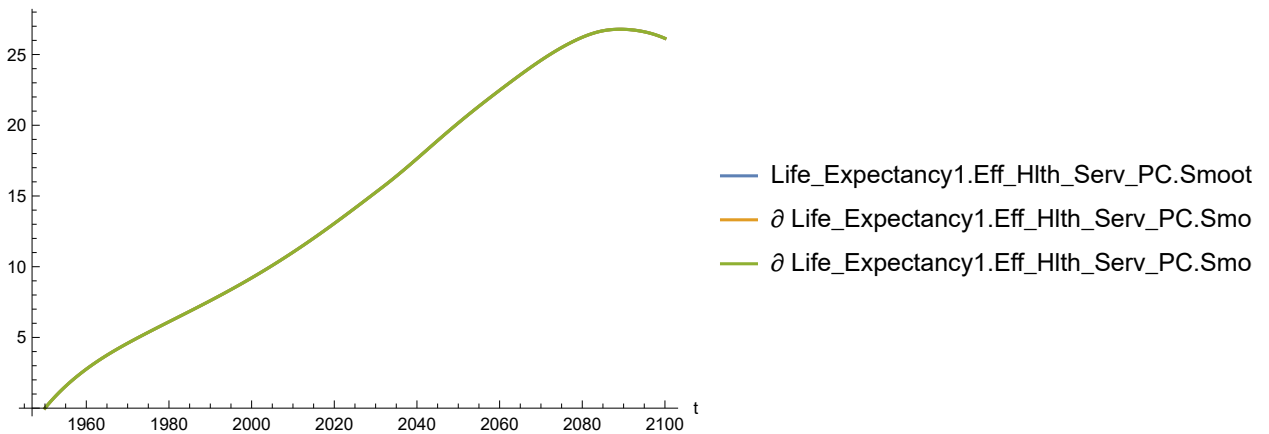
Out[186]=



In[187]:=

```
SystemModelPlot[simsensdata,
  {"Life_Expectancy1.Eff_Hlth_Serv_PC.Smooth_of_Input.Integrator1.y",
   "Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[7]", percentvar}]
```

Out[187]=

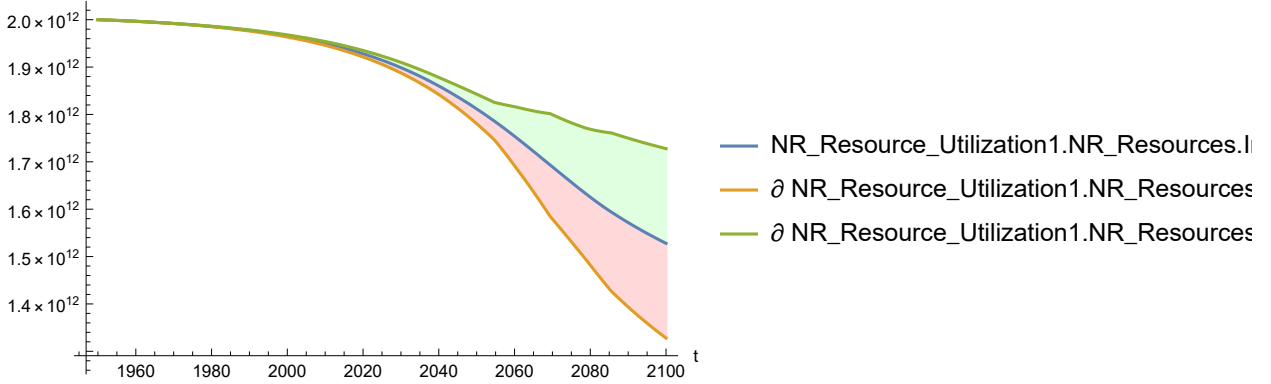


Plot the sensitivity of NR_Resource_Utilization1.NR_Resources.Integrator1.y to Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals.

In[188]:=

```
SystemModelPlot[simsensdata, {"NR_Resource_Utilization1.NR_Resources.Integrator1.y",
"Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[1]", percentvar}]
```

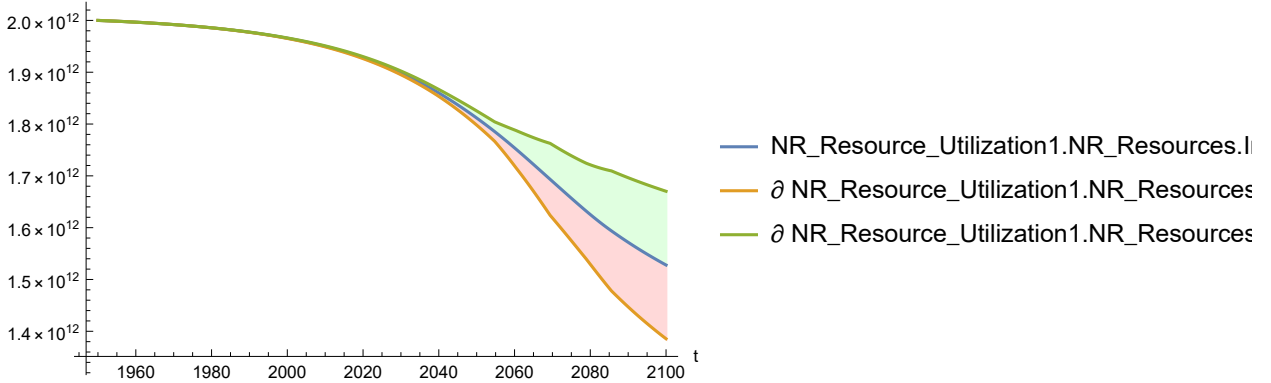
Out[188]=



In[189]:=

```
SystemModelPlot[simsensdata, {"NR_Resource_Utilization1.NR_Resources.Integrator1.y",
"Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[2]", percentvar}]
```

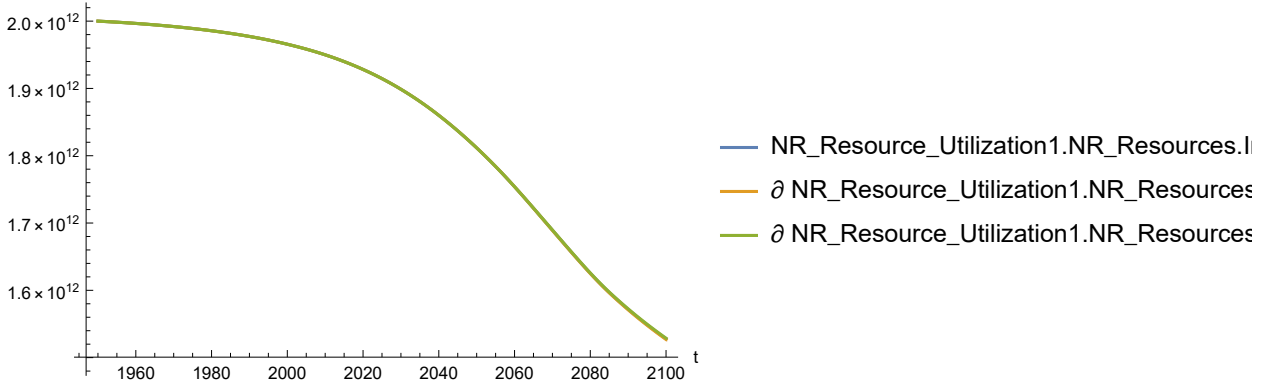
Out[189]=



In[190]:=

```
SystemModelPlot[simsensdata, {"NR_Resource_Utilization1.NR_Resources.Integrator1.y",
"Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[3]", percentvar}]
```

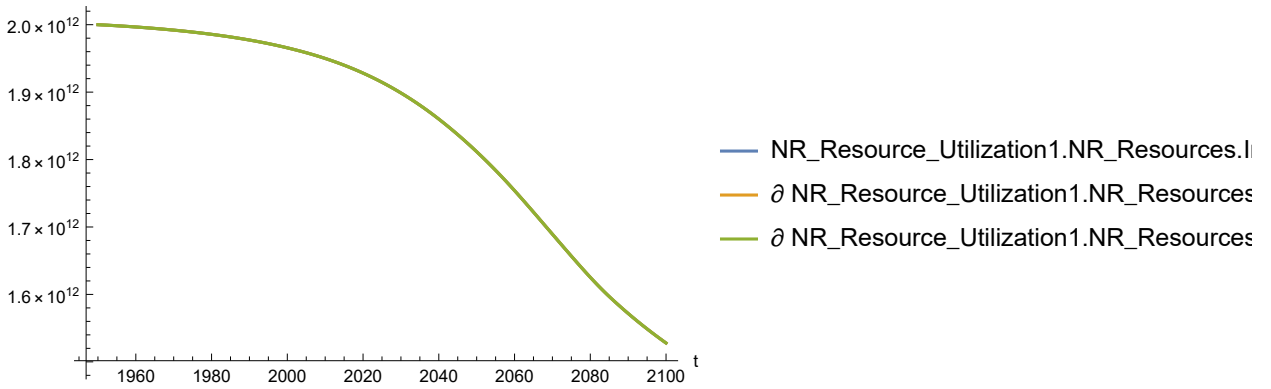
Out[190]=



In[191]:=

```
SystemModelPlot[simsensdata, {"NR_Resource_Utilization1.NR_Resources.Integrator1.y",
"Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[4]", percentvar}]
```

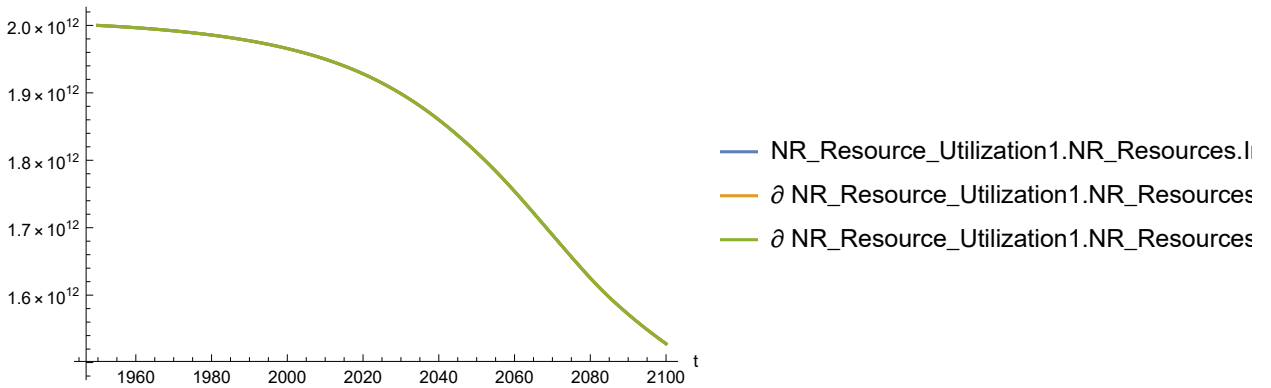
Out[191]=



In[192]:=

```
SystemModelPlot[simsensdata, {"NR_Resource_Utilization1.NR_Resources.Integrator1.y",
"Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[5]", percentvar}]
```

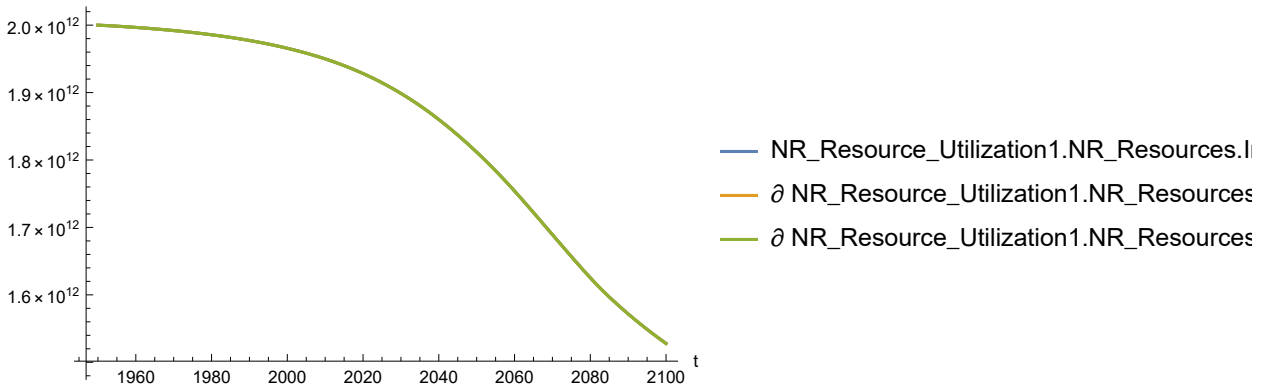
Out[192]=



In[193]:=

```
SystemModelPlot[simsensdata, {"NR_Resource_Utilization1.NR_Resources.Integrator1.y",
"Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[6]", percentvar}]
```

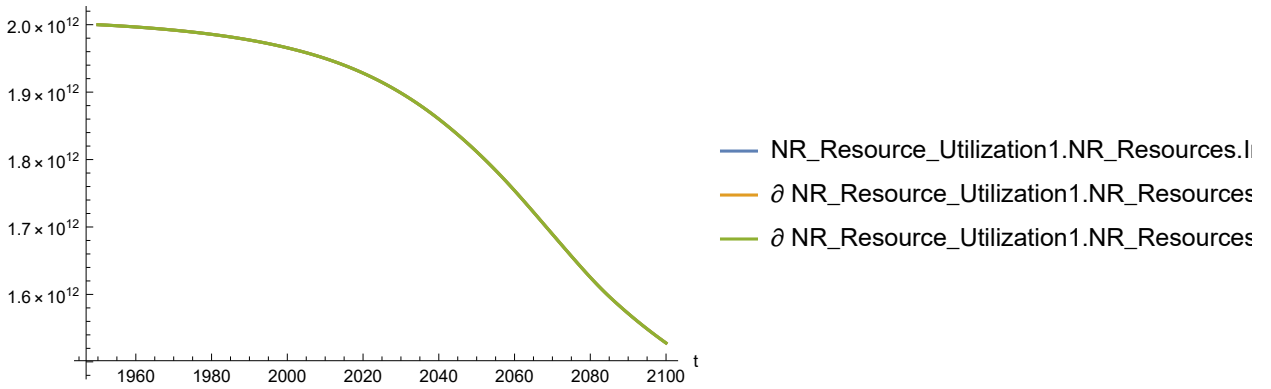
Out[193]=



In[194]:=

```
SystemModelPlot[simsensdata, {"NR_Resource_Utilization1.NR_Resources.Integrator1.y",
"Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[7]", percentvar}]
```

Out[194]=

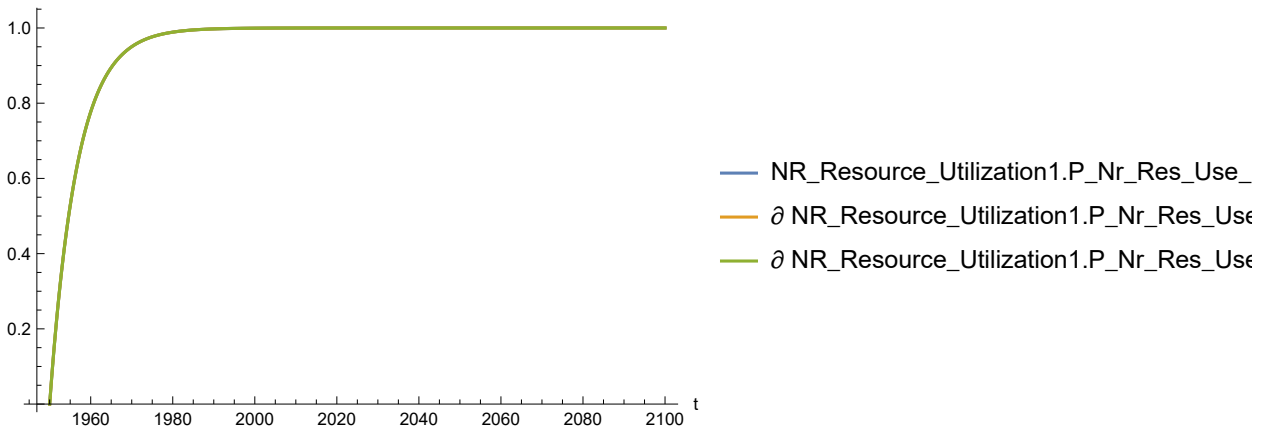


Plot the sensitivity of NR_Resource_Utilization1.P_Nr_Res_Use_Fact_2.Smooth1.Integrator1.y to Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals.

In[195]:=

```
SystemModelPlot[simsensdata,
{"NR_Resource_Utilization1.P_Nr_Res_Use_Fact_2.Smooth1.Integrator1.y",
"Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[1]", percentvar}]
```

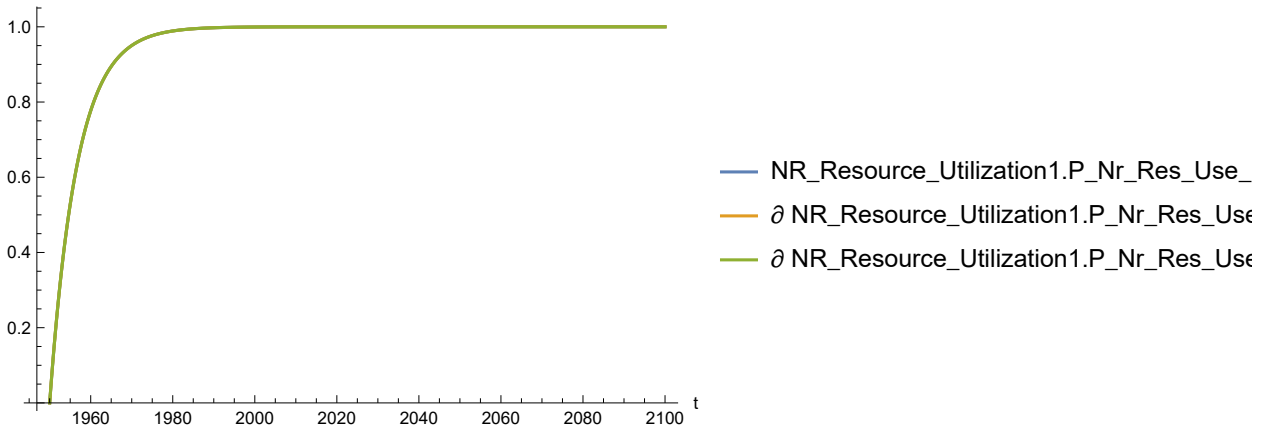
Out[195]=



In[196]:=

```
SystemModelPlot[simsensdata,
  {"NR_Resource_Utilization1.P_Nr_Res_Use_Fact_2.Smooth1.Integrator1.y",
   "Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[2]", percentvar}]
```

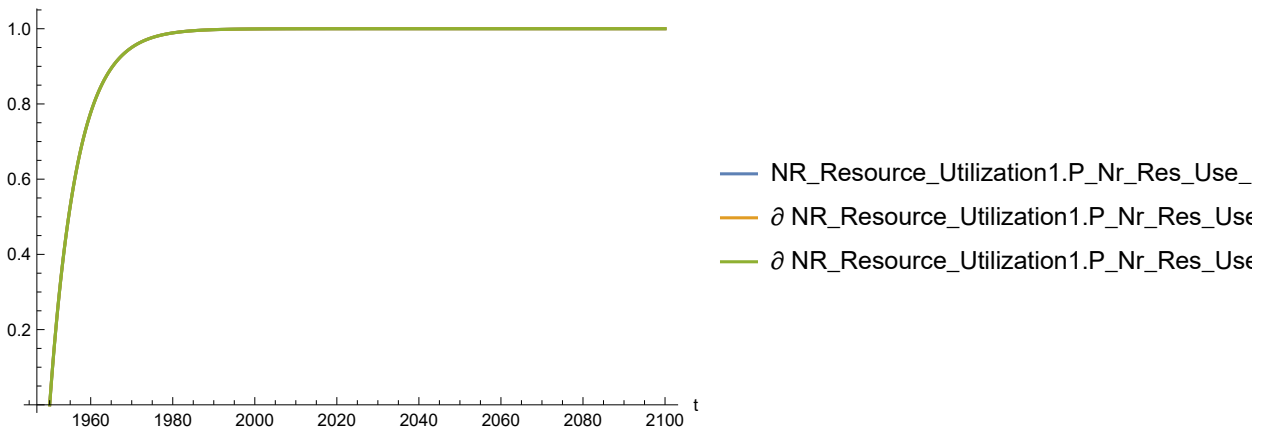
Out[196]=



In[197]:=

```
SystemModelPlot[simsensdata,
  {"NR_Resource_Utilization1.P_Nr_Res_Use_Fact_2.Smooth1.Integrator1.y",
   "Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[3]", percentvar}]
```

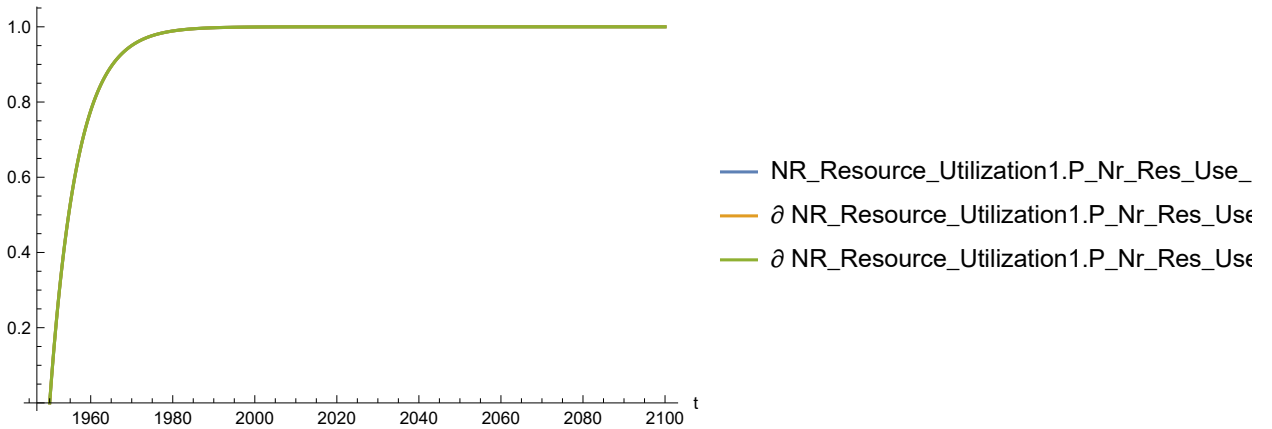
Out[197]=



In[198]:=

```
SystemModelPlot[simsensdata,
  {"NR_Resource_Utilization1.P_Nr_Res_Use_Fact_2.Smooth1.Integrator1.y",
   "Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[4]", percentvar}]
```

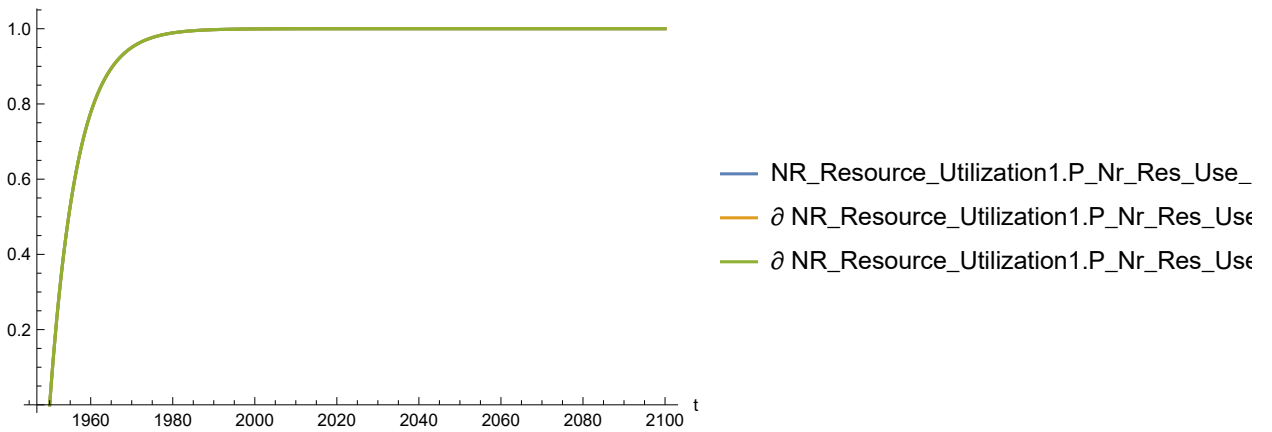
Out[198]=



In[199]:=

```
SystemModelPlot[simsensdata,
  {"NR_Resource_Utilization1.P_Nr_Res_Use_Fact_2.Smooth1.Integrator1.y",
   "Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[5]", percentvar}]
```

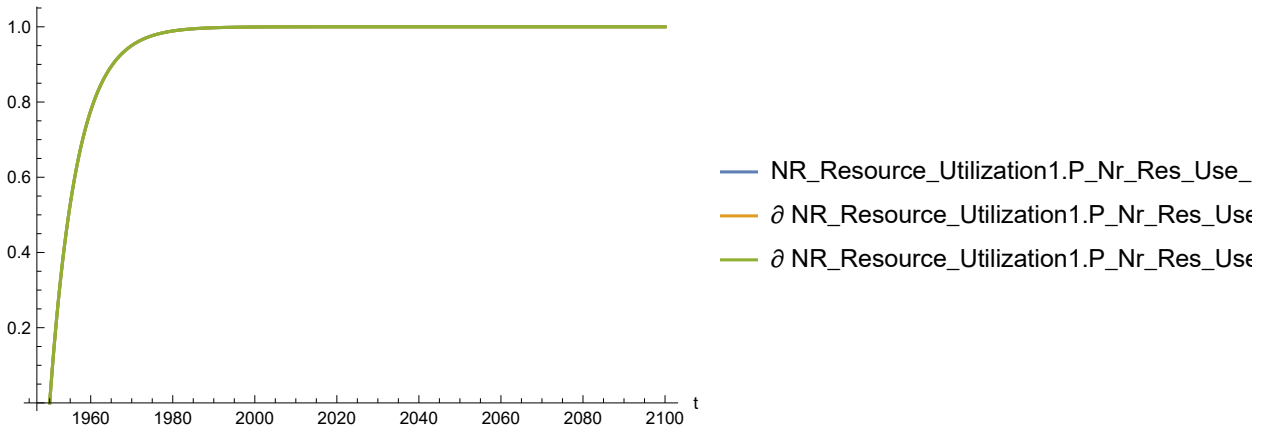
Out[199]=



In[200]:=

```
SystemModelPlot[simsensdata,
  {"NR_Resource_Utilization1.P_Nr_Res_Use_Fact_2.Smooth1.Integrator1.y",
   "Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[6]", percentvar}]
```

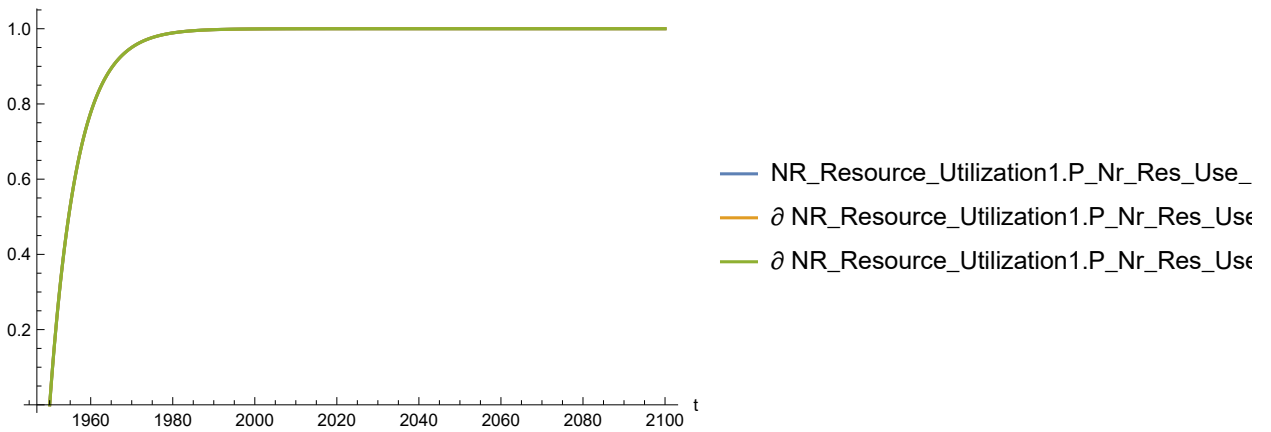
Out[200]=



In[201]:=

```
SystemModelPlot[simsensdata,
  {"NR_Resource_Utilization1.P_Nr_Res_Use_Fact_2.Smooth1.Integrator1.y",
   "Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[7]", percentvar}]
```

Out[201]=

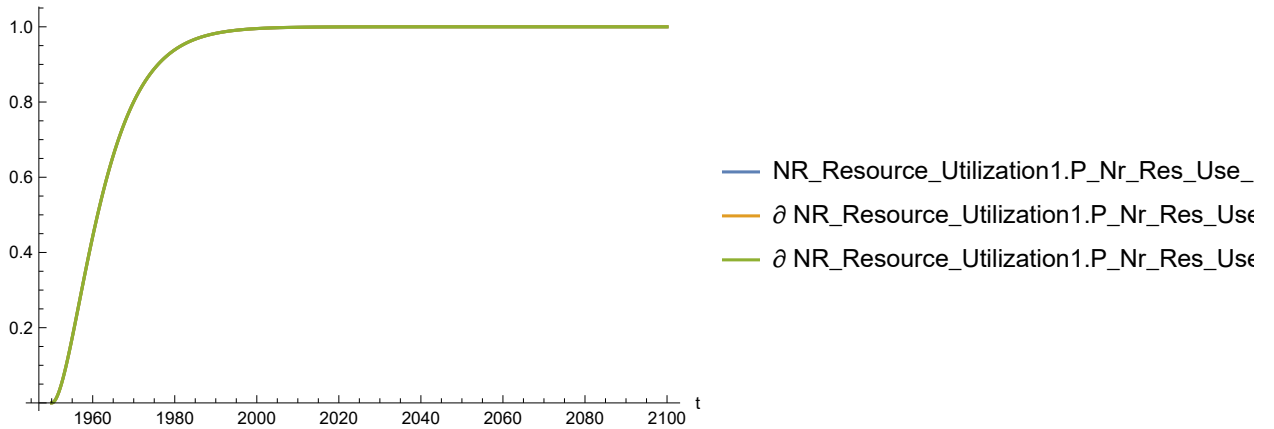


Plot the sensitivity of NR_Resource_Utilization1.P_Nr_Res_Use_Fact_2.Smooth2.Integrator1.y to Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals.

In[202]:=

```
SystemModelPlot[simsensdata,
  {"NR_Resource_Utilization1.P_Nr_Res_Use_Fact_2.Smooth2.Integrator1.y",
   "Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[1]", percentvar}]
```

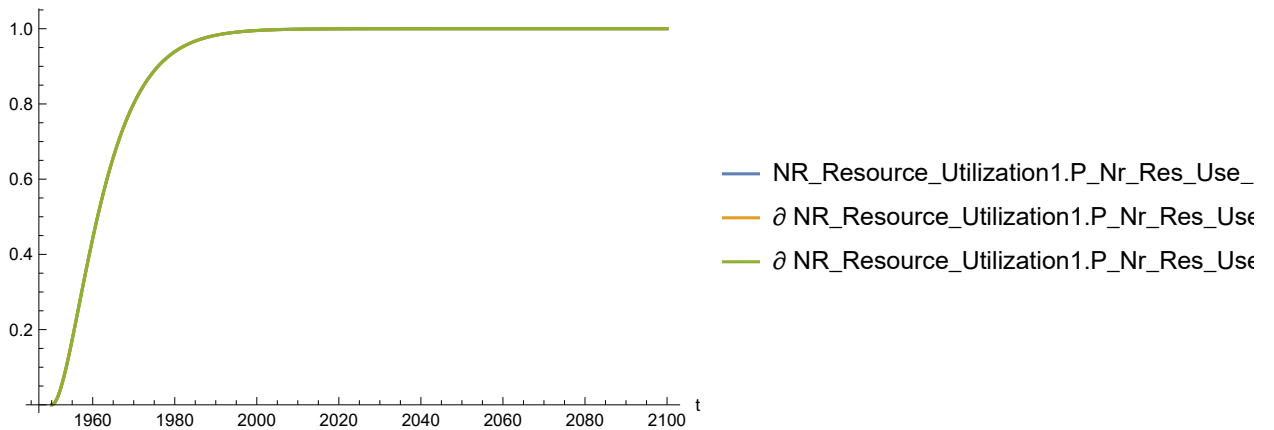
Out[202]=



In[203]:=

```
SystemModelPlot[simsensdata,
  {"NR_Resource_Utilization1.P_Nr_Res_Use_Fact_2.Smooth2.Integrator1.y",
   "Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[2]", percentvar}]
```

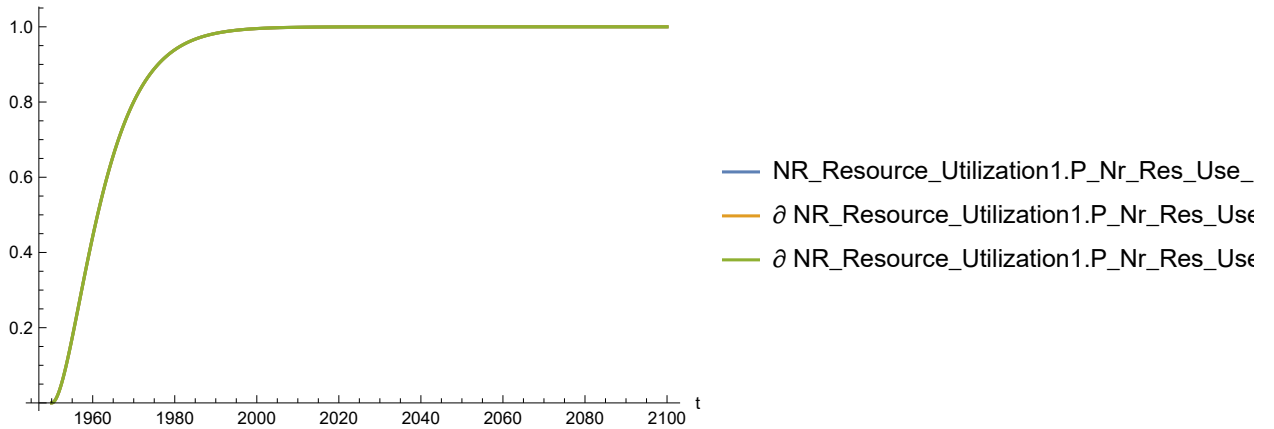
Out[203]=



In[204]:=

```
SystemModelPlot[simsensdata,
  {"NR_Resource_Utilization1.P_Nr_Res_Use_Fact_2.Smooth2.Integrator1.y",
   "Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[3]", percentvar}]
```

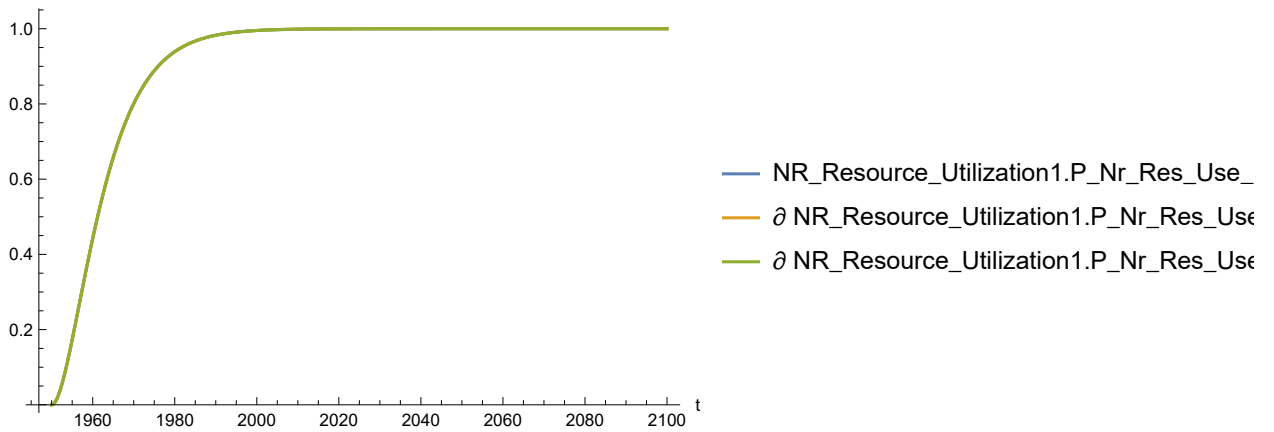
Out[204]=



In[205]:=

```
SystemModelPlot[simsensdata,
  {"NR_Resource_Utilization1.P_Nr_Res_Use_Fact_2.Smooth2.Integrator1.y",
   "Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[4]", percentvar}]
```

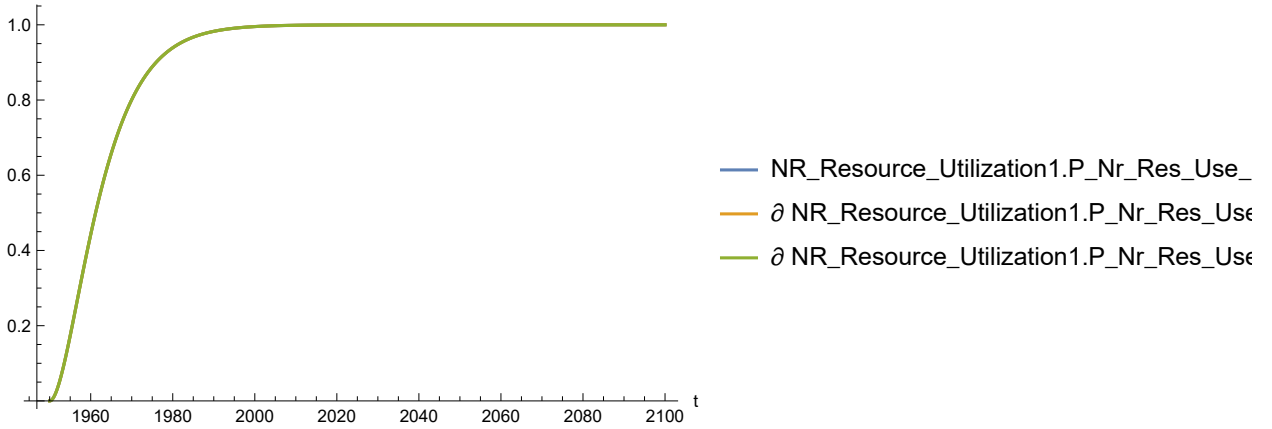
Out[205]=



In[206]:=

```
SystemModelPlot[simsensdata,
  {"NR_Resource_Utilization1.P_Nr_Res_Use_Fact_2.Smooth2.Integrator1.y",
   "Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[5]", percentvar}]
```

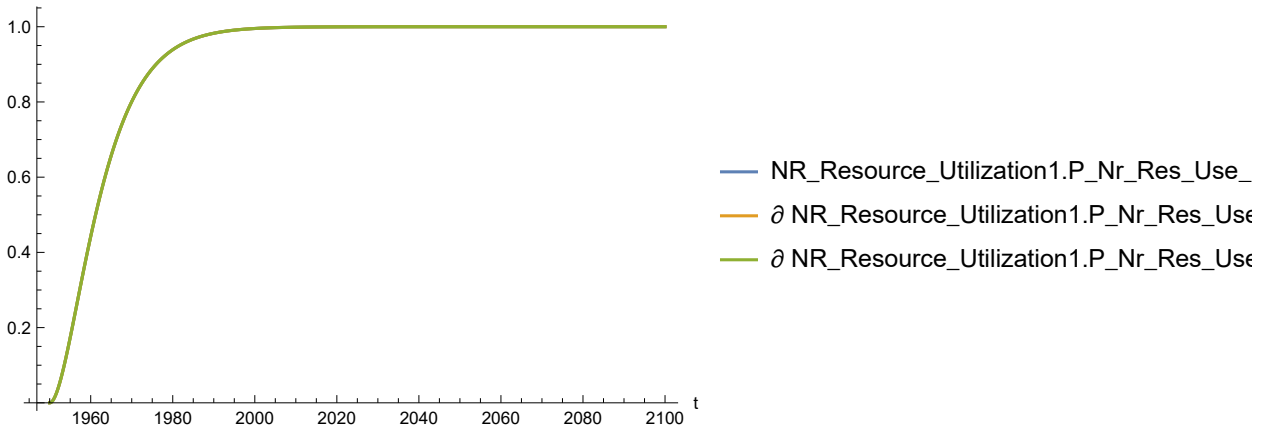
Out[206]=



In[207]:=

```
SystemModelPlot[simsensdata,
  {"NR_Resource_Utilization1.P_Nr_Res_Use_Fact_2.Smooth2.Integrator1.y",
   "Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[6]", percentvar}]
```

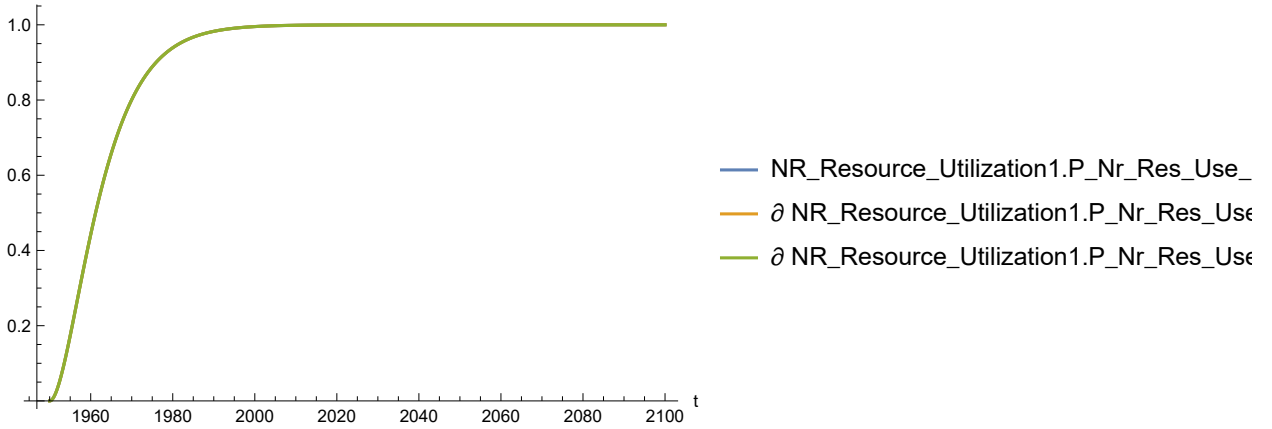
Out[207]=



In[208]:=

```
SystemModelPlot[simsensdata,
  {"NR_Resource_Utilization1.P_Nr_Res_Use_Fact_2.Smooth2.Integrator1.y",
   "Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[7]", percentvar}]
```

Out[208]=

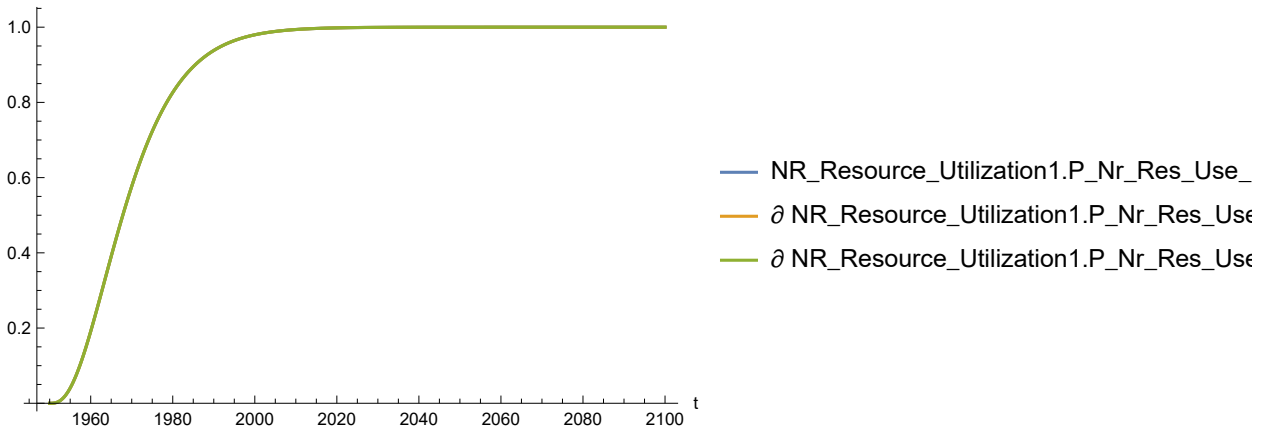


Plot the sensitivity of NR_Resource_Utilization1.P_Nr_Res_Use_Fact_2.Smooth3.Integrator1.y to Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals.

In[209]:=

```
SystemModelPlot[simsensdata,
  {"NR_Resource_Utilization1.P_Nr_Res_Use_Fact_2.Smooth3.Integrator1.y",
   "Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[1]", percentvar}]
```

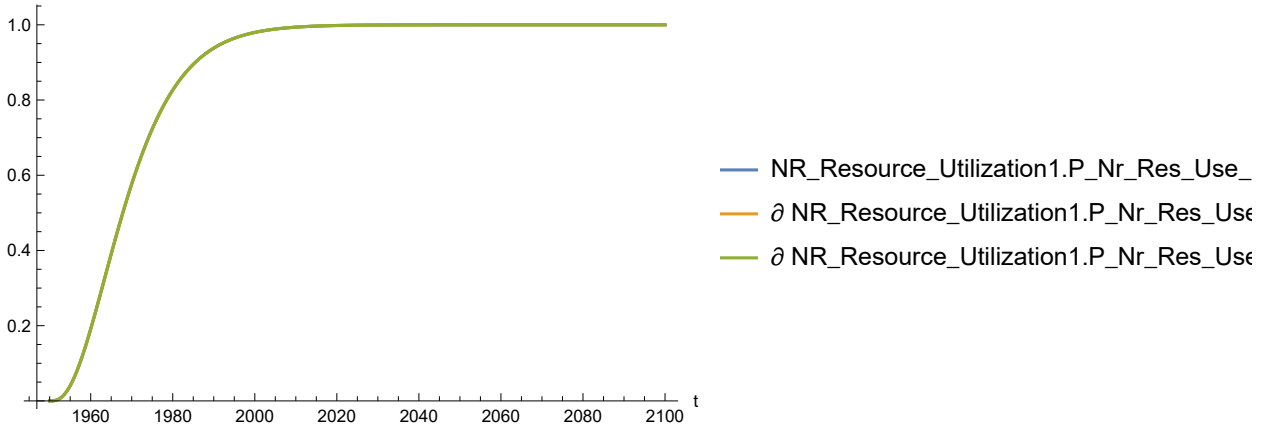
Out[209]=



In[210]:=

```
SystemModelPlot[simsensdata,
  {"NR_Resource_Utilization1.P_Nr_Res_Use_Fact_2.Smooth3.Integrator1.y",
   "Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[2]", percentvar}]
```

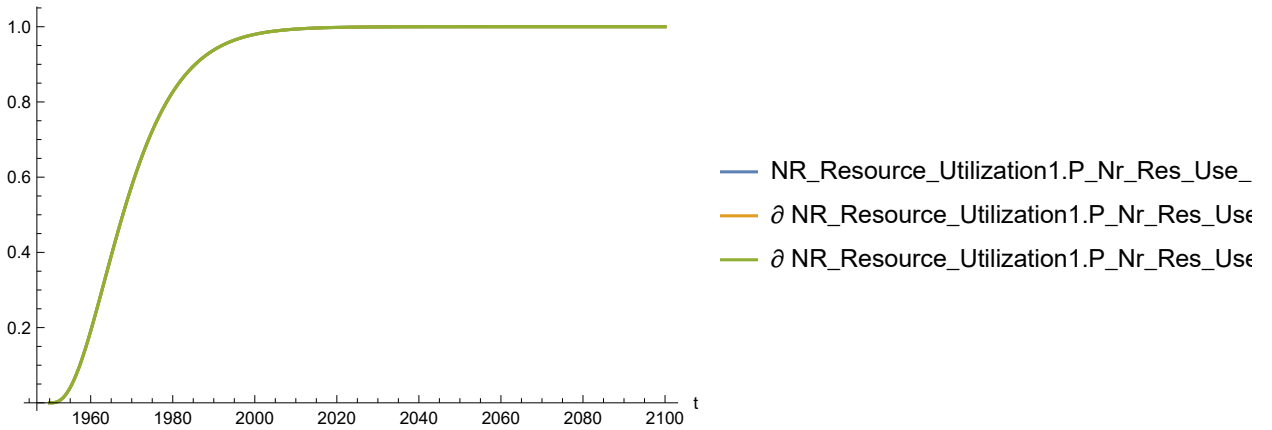
Out[210]=



In[211]:=

```
SystemModelPlot[simsensdata,
  {"NR_Resource_Utilization1.P_Nr_Res_Use_Fact_2.Smooth3.Integrator1.y",
   "Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[3]", percentvar}]
```

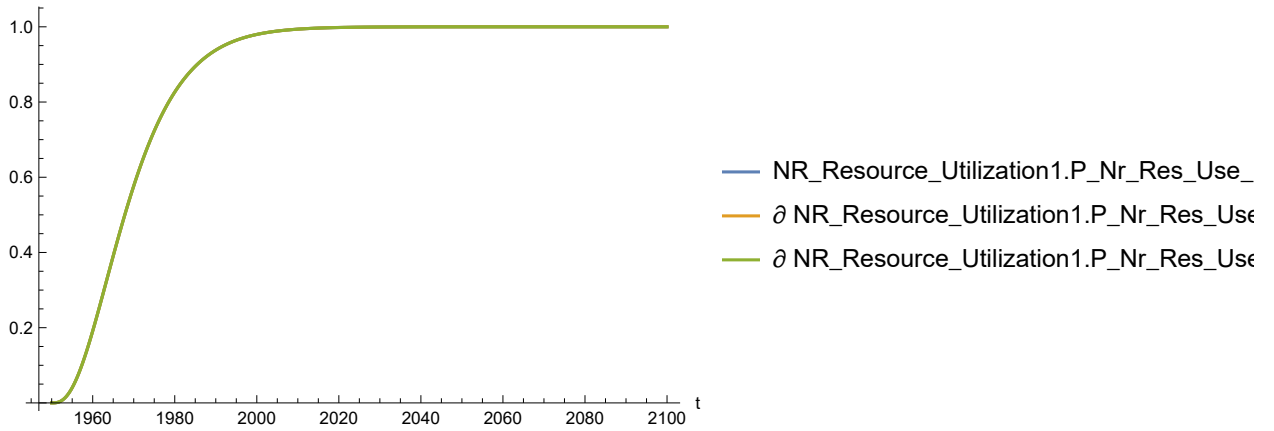
Out[211]=



In[212]:=

```
SystemModelPlot[simsensdata,
  {"NR_Resource_Utilization1.P_Nr_Res_Use_Fact_2.Smooth3.Integrator1.y",
   "Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[4]", percentvar}]
```

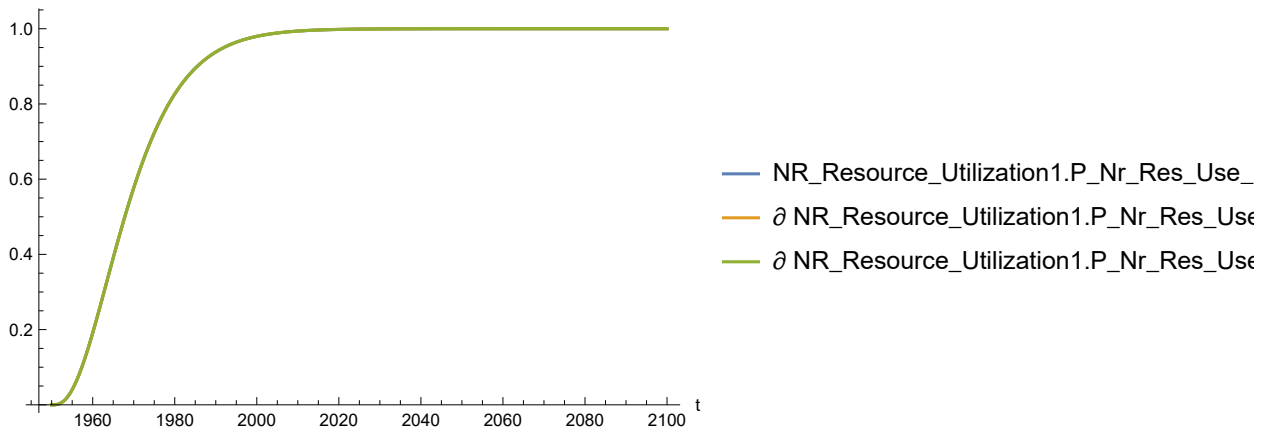
Out[212]=



In[213]:=

```
SystemModelPlot[simsensdata,
  {"NR_Resource_Utilization1.P_Nr_Res_Use_Fact_2.Smooth3.Integrator1.y",
   "Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[5]", percentvar}]
```

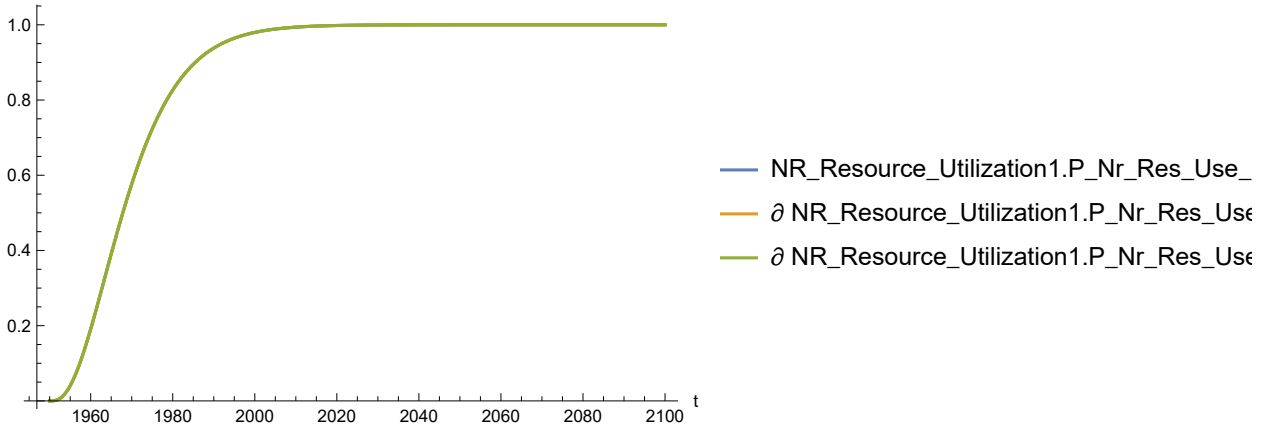
Out[213]=



In[214]:=

```
SystemModelPlot[simsensdata,
  {"NR_Resource_Utilization1.P_Nr_Res_Use_Fact_2.Smooth3.Integrator1.y",
   "Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[6]", percentvar}]
```

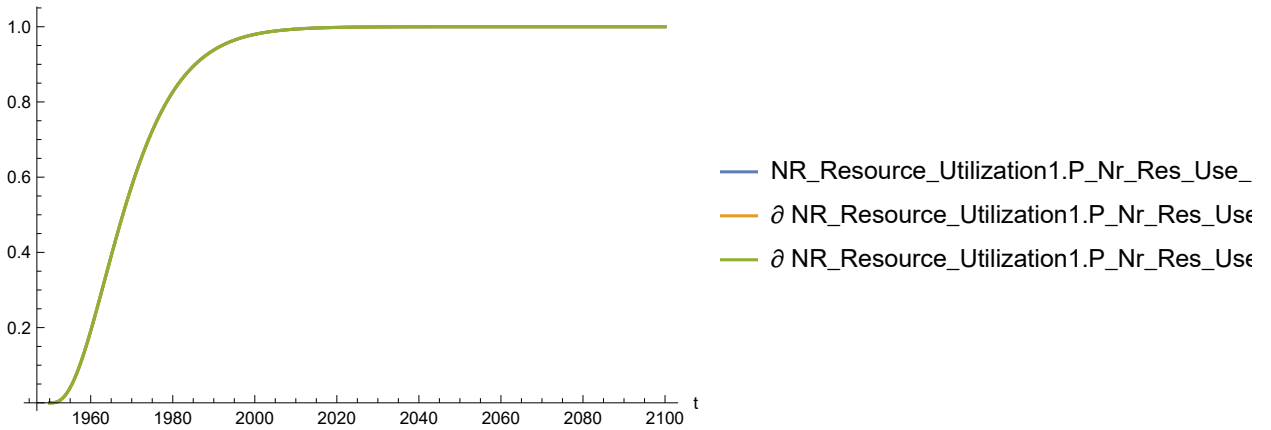
Out[214]=



In[215]:=

```
SystemModelPlot[simsensdata,
  {"NR_Resource_Utilization1.P_Nr_Res_Use_Fact_2.Smooth3.Integrator1.y",
   "Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[7]", percentvar}]
```

Out[215]=

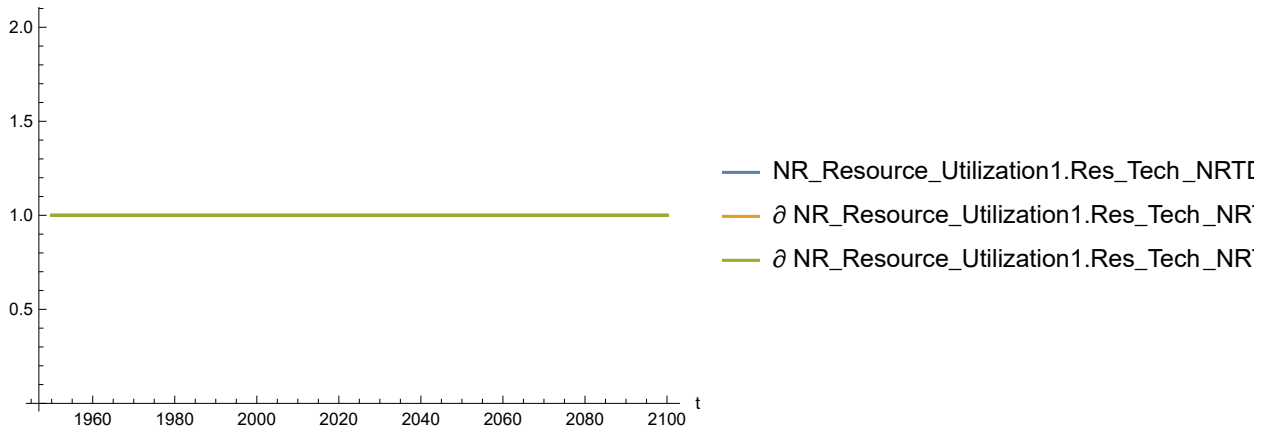


Plot the sensitivity of `NR_Resource_Utilization1.Res_Tech_NRTD.Integrator1.y` to `Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals`.

In[216]:=

```
SystemModelPlot[simsensdata, {"NR_Resource_Utilization1.Res_Tech_NRTD.Integrator1.y",
"Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[1]", percentvar}]
```

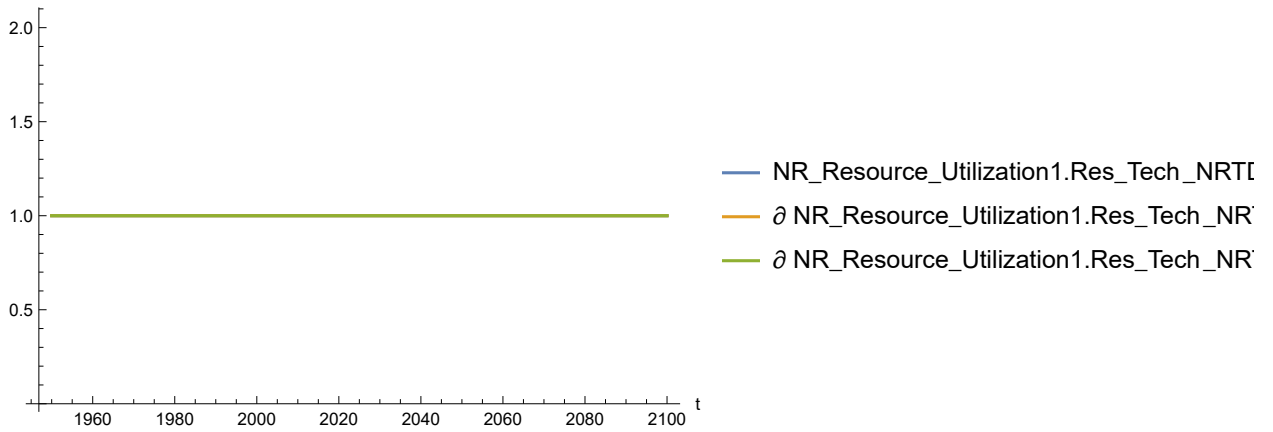
Out[216]=



In[217]:=

```
SystemModelPlot[simsensdata, {"NR_Resource_Utilization1.Res_Tech_NRTD.Integrator1.y",
"Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[2]", percentvar}]
```

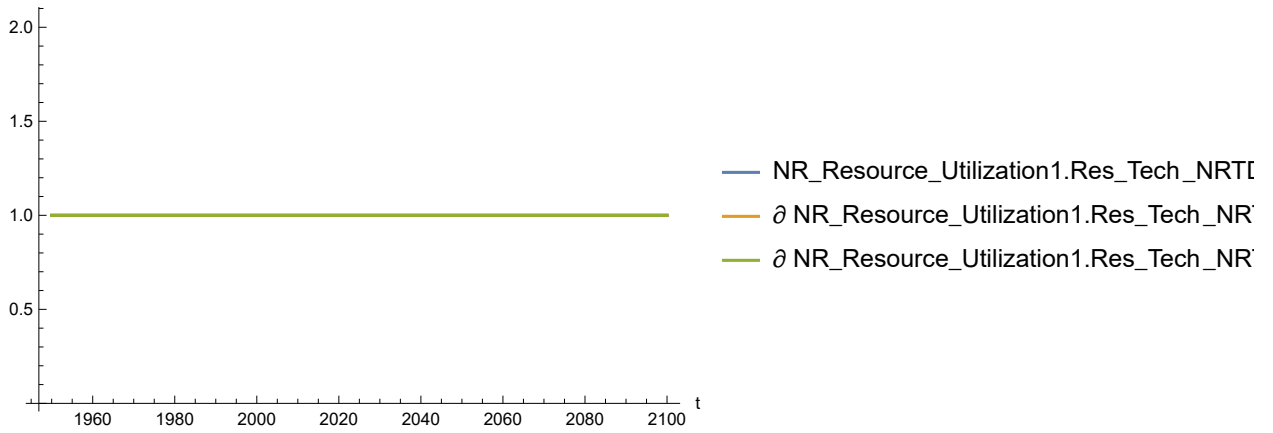
Out[217]=



In[218]:=

```
SystemModelPlot[simsensdata, {"NR_Resource_Utilization1.Res_Tech_NRTD.Integrator1.y",
"Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[3]", percentvar}]
```

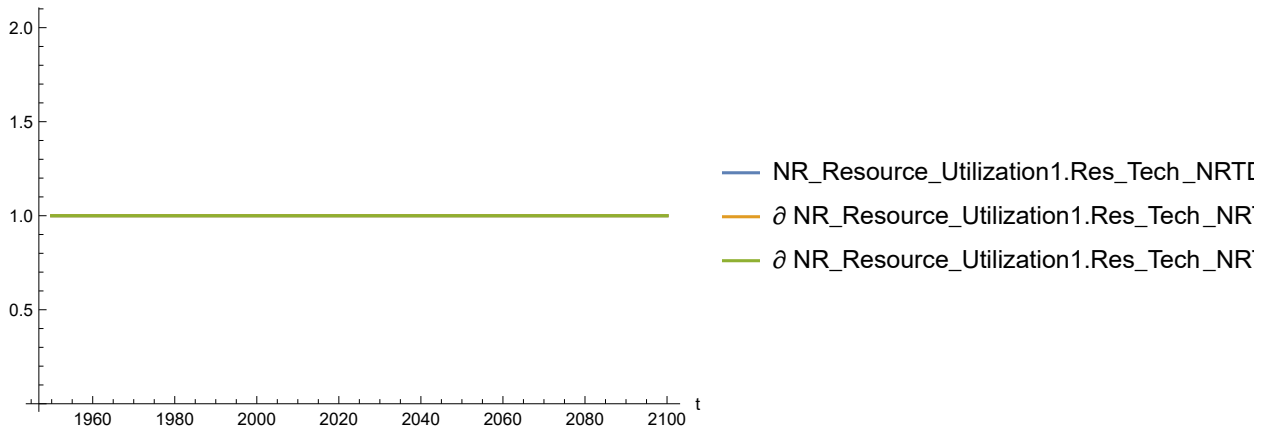
Out[218]=



In[219]:=

```
SystemModelPlot[simsensdata, {"NR_Resource_Utilization1.Res_Tech_NRTD.Integrator1.y",
"Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[4]", percentvar}]
```

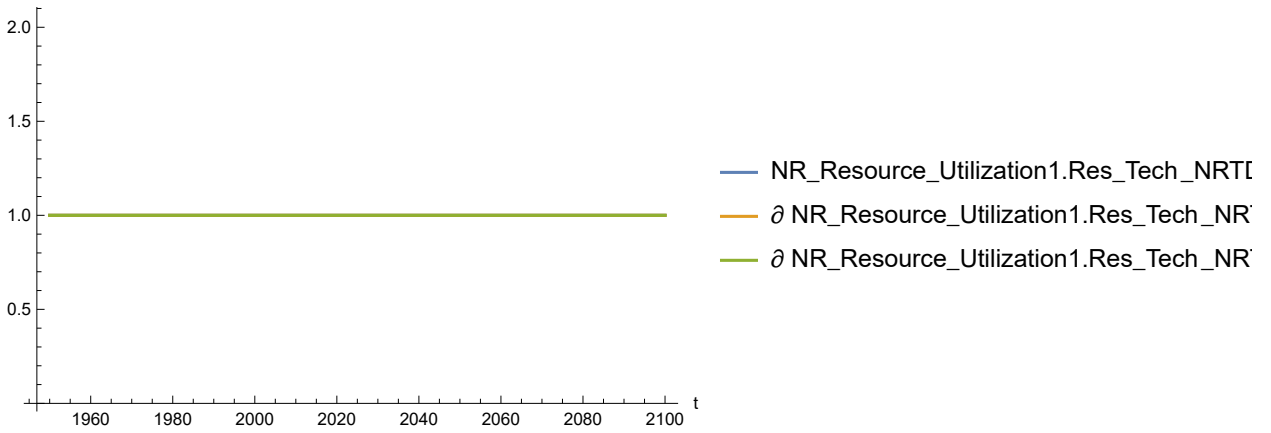
Out[219]=



In[220]:=

```
SystemModelPlot[simsensdata, {"NR_Resource_Utilization1.Res_Tech_NRTD.Integrator1.y",
"Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[5]", percentvar}]
```

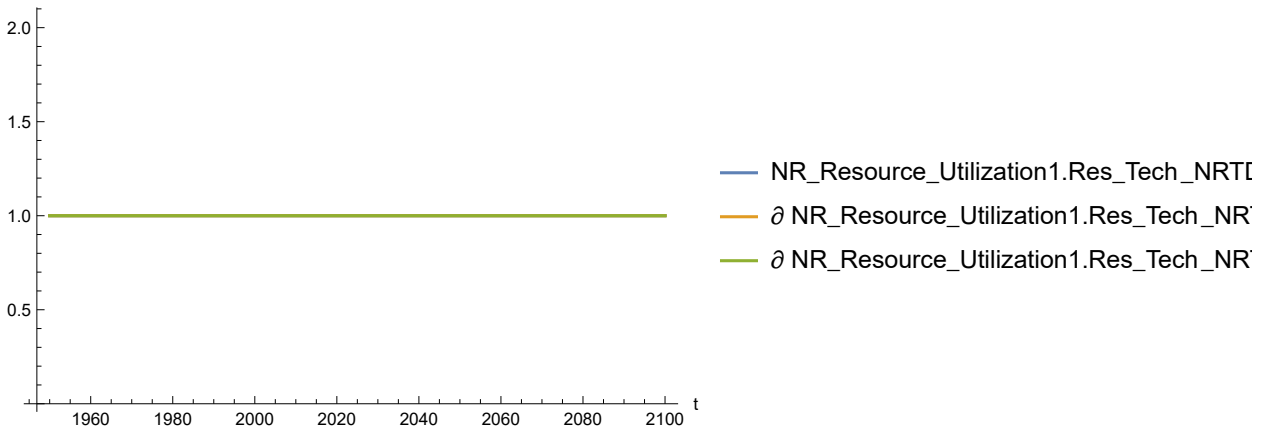
Out[220]=



In[221]:=

```
SystemModelPlot[simsensdata, {"NR_Resource_Utilization1.Res_Tech_NRTD.Integrator1.y",
"Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[6]", percentvar}]
```

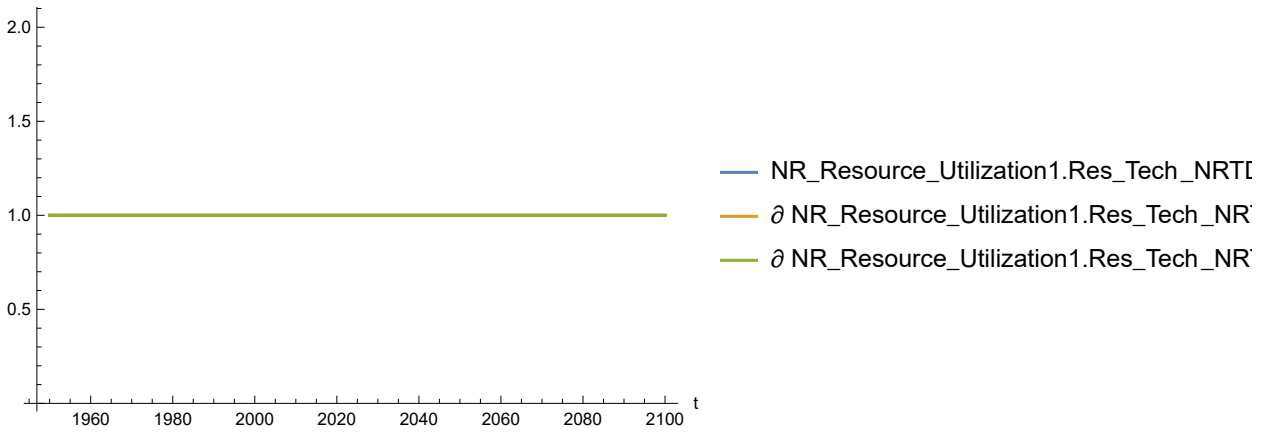
Out[221]=



In[222]:=

```
SystemModelPlot[simsensdata, {"NR_Resource_Utilization1.Res_Tech_NRTD.Integrator1.y",
"Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[7]", percentvar}]
```

Out[222]=

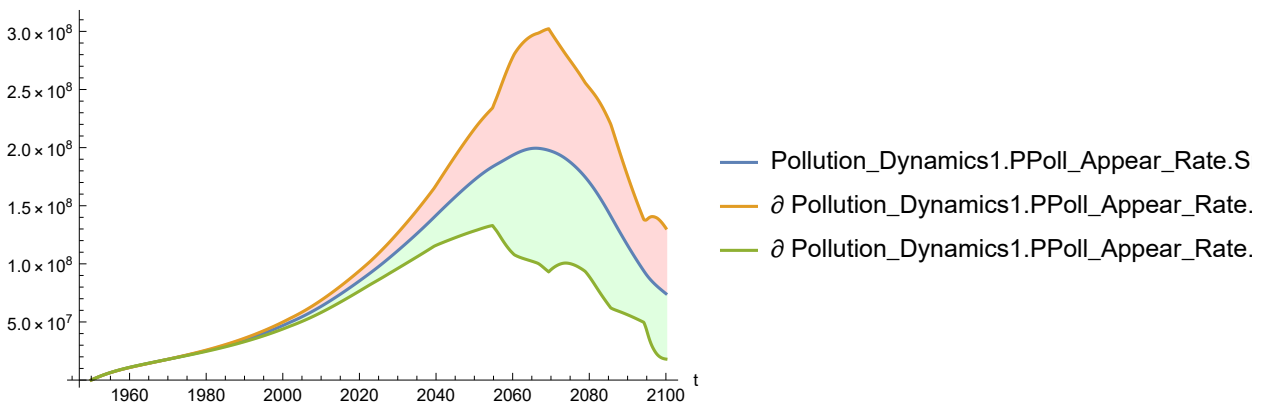


Plot the sensitivity of `Pollution_Dynamics1.PPoll_Appear_Rate.Smooth1.Integrator1.y` to `Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals`.

In[223]:=

```
SystemModelPlot[simsensdata,
{"Pollution_Dynamics1.PPoll_Appear_Rate.Smooth1.Integrator1.y",
"Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[1]", percentvar}]
```

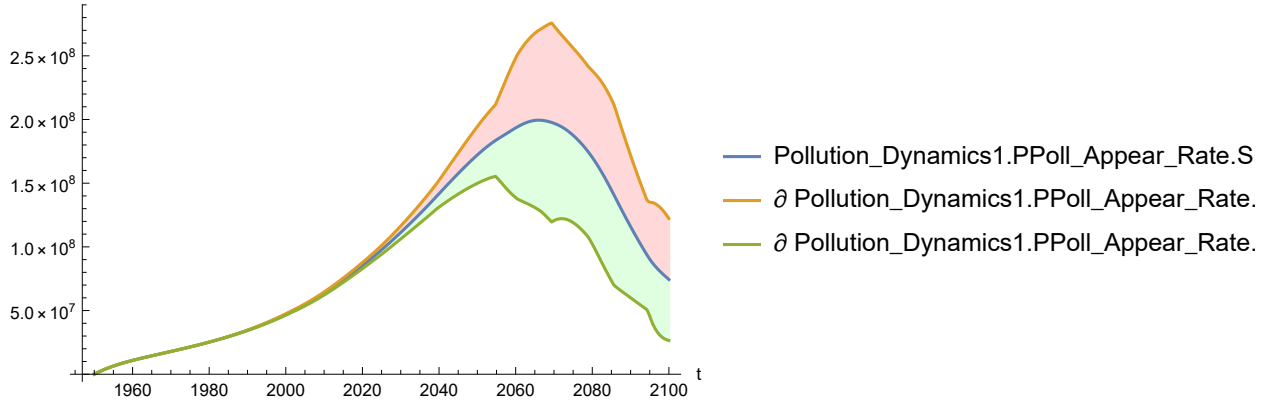
Out[223]=



In[224]:=

```
SystemModelPlot[simsensdata,
  {"Pollution_Dynamics1.PPoll_Appear_Rate.Smooth1.Integrator1.y",
   "Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[2]", percentvar}]
```

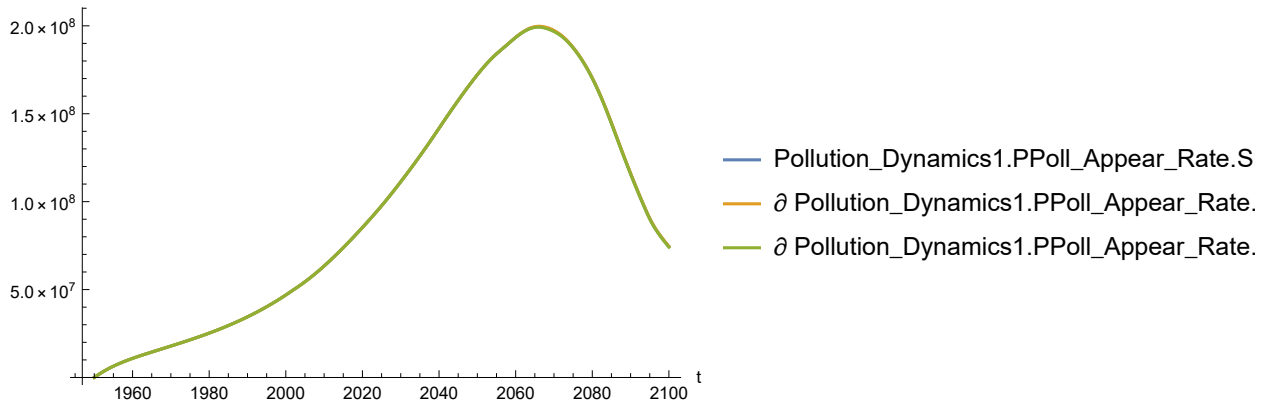
Out[224]=



In[225]:=

```
SystemModelPlot[simsensdata,
  {"Pollution_Dynamics1.PPoll_Appear_Rate.Smooth1.Integrator1.y",
   "Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[3]", percentvar}]
```

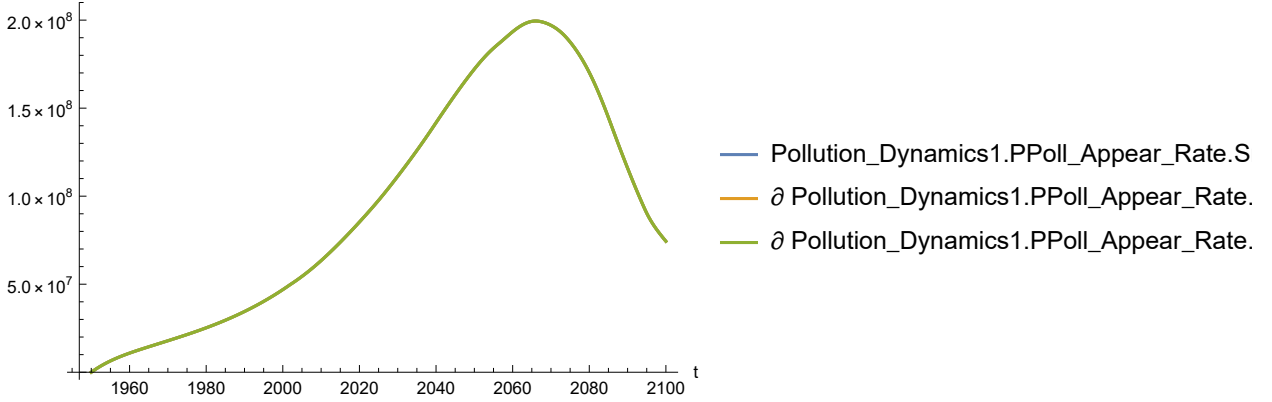
Out[225]=



In[226]:=

```
SystemModelPlot[simsensdata,
  {"Pollution_Dynamics1.PPoll_Appear_Rate.Smooth1.Integrator1.y",
   "Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[4]", percentvar}]
```

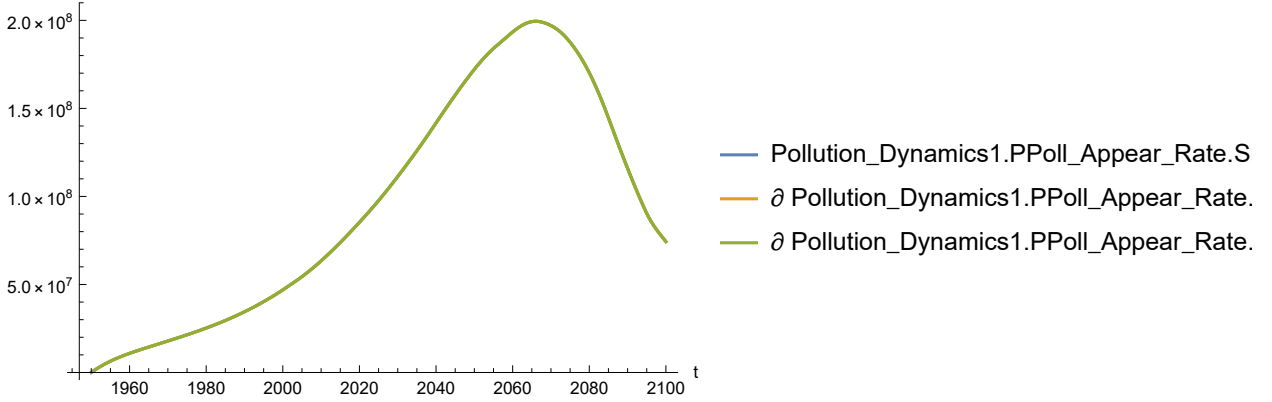
Out[226]=



In[227]:=

```
SystemModelPlot[simsensdata,
  {"Pollution_Dynamics1.PPoll_Appear_Rate.Smooth1.Integrator1.y",
   "Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[5]", percentvar}]
```

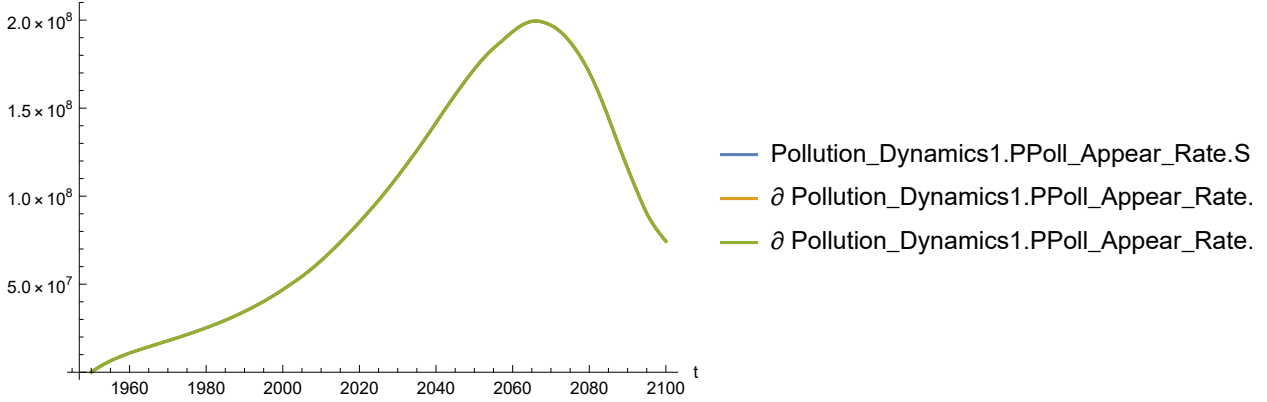
Out[227]=



In[228]:=

```
SystemModelPlot[simsensdata,
  {"Pollution_Dynamics1.PPoll_Appear_Rate.Smooth1.Integrator1.y",
   "Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[6]", percentvar}]
```

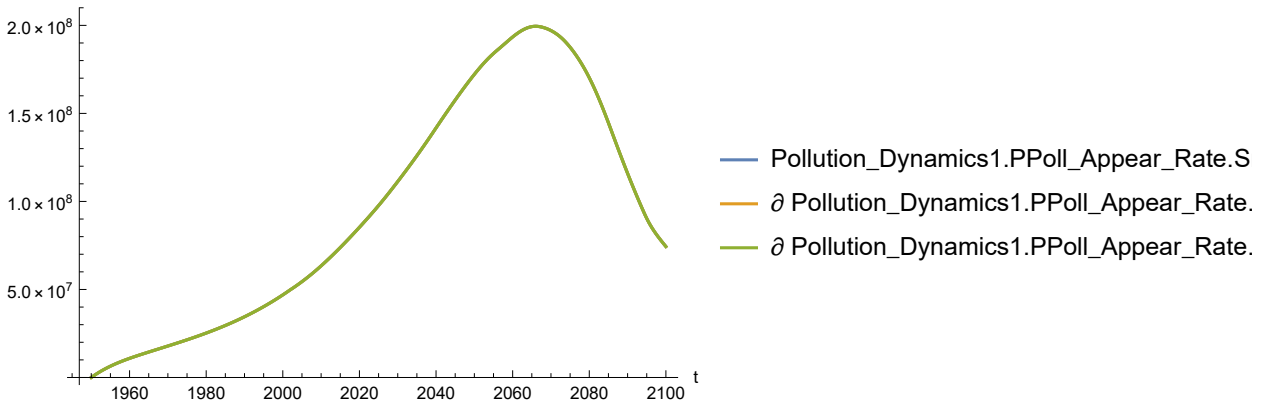
Out[228]=



In[229]:=

```
SystemModelPlot[simsensdata,
  {"Pollution_Dynamics1.PPoll_Appear_Rate.Smooth1.Integrator1.y",
   "Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[7]", percentvar}]
```

Out[229]=

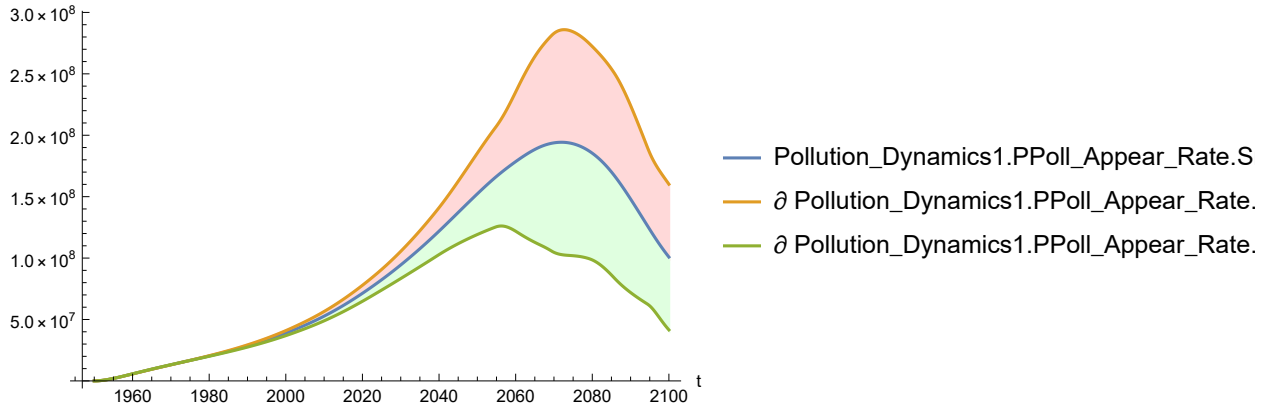


Plot the sensitivity of Pollution_Dynamics1.PPoll_Appear_Rate.Smooth2.Integrator1.y to Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals.

In[230]:=

```
SystemModelPlot[simsensdata,
  {"Pollution_Dynamics1.PPoll_Appear_Rate.Smooth2.Integrator1.y",
   "Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[1]", percentvar}]
```

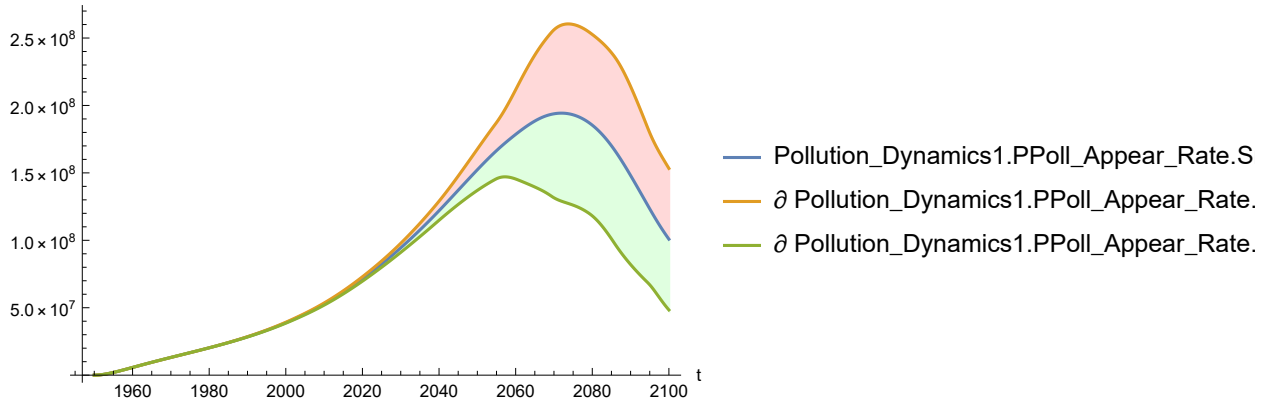
Out[230]=



In[231]:=

```
SystemModelPlot[simsensdata,
  {"Pollution_Dynamics1.PPoll_Appear_Rate.Smooth2.Integrator1.y",
   "Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[2]", percentvar}]
```

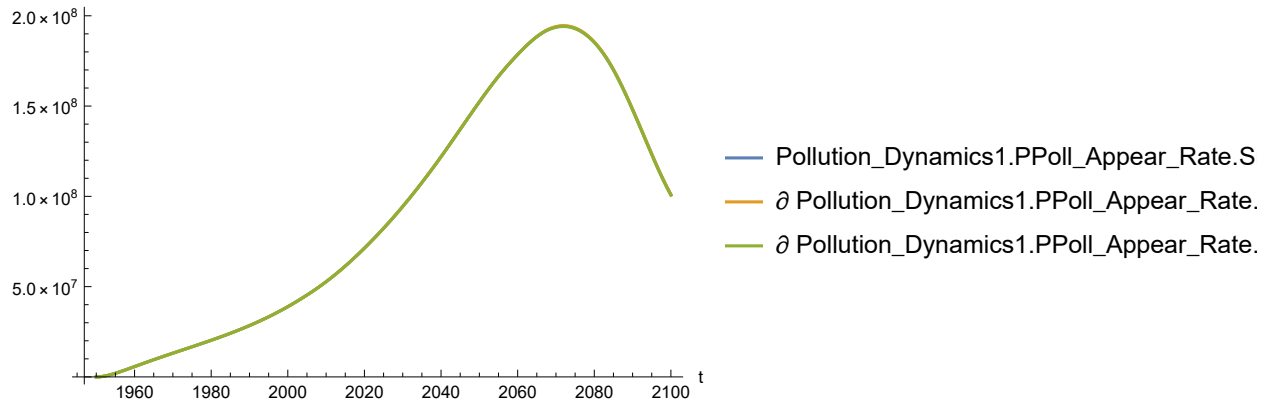
Out[231]=



In[232]:=

```
SystemModelPlot[simsensdata,
  {"Pollution_Dynamics1.PPoll_Appear_Rate.Smooth2.Integrator1.y",
   "Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[3]", percentvar}]
```

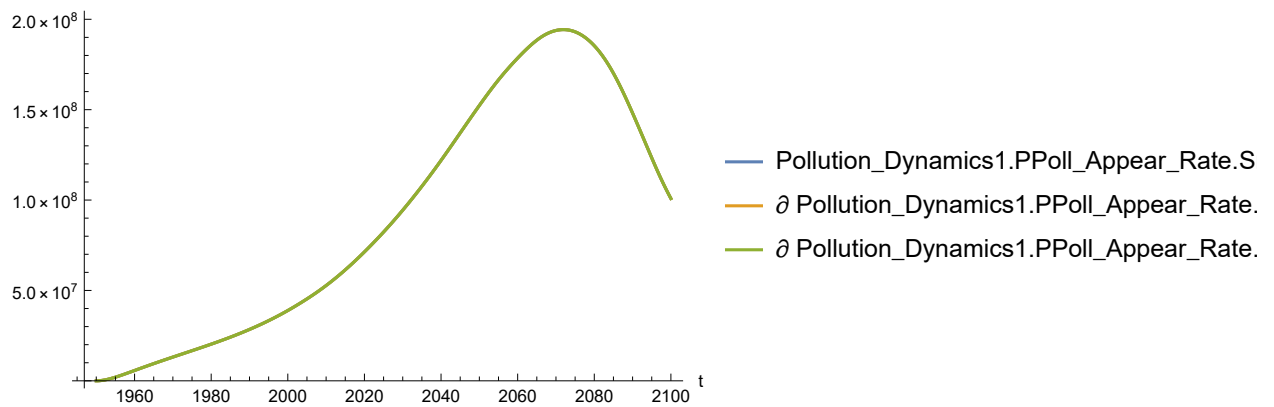
Out[232]=



In[233]:=

```
SystemModelPlot[simsensdata,
  {"Pollution_Dynamics1.PPoll_Appear_Rate.Smooth2.Integrator1.y",
   "Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[4]", percentvar}]
```

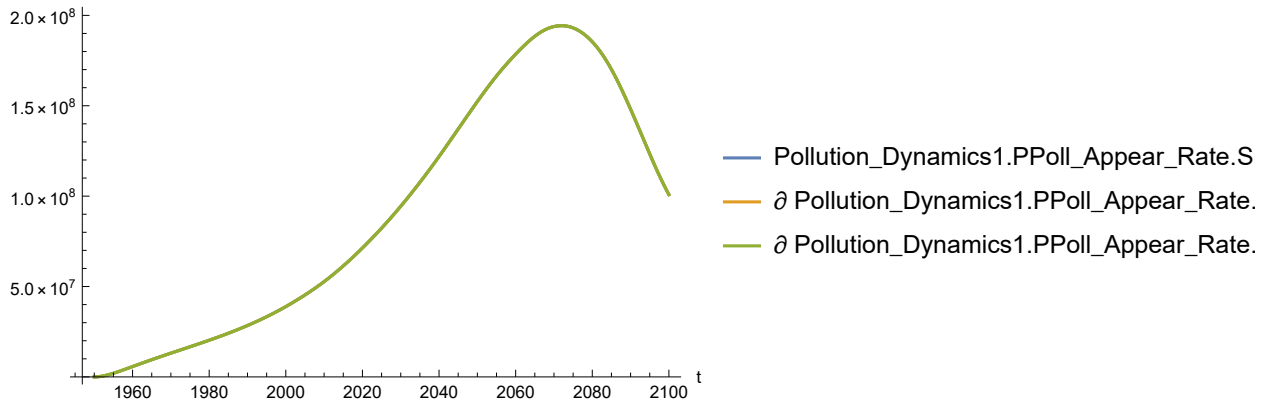
Out[233]=



In[234]:=

```
SystemModelPlot[simsensdata,
  {"Pollution_Dynamics1.PPoll_Appear_Rate.Smooth2.Integrator1.y",
   "Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[5]", percentvar}]
```

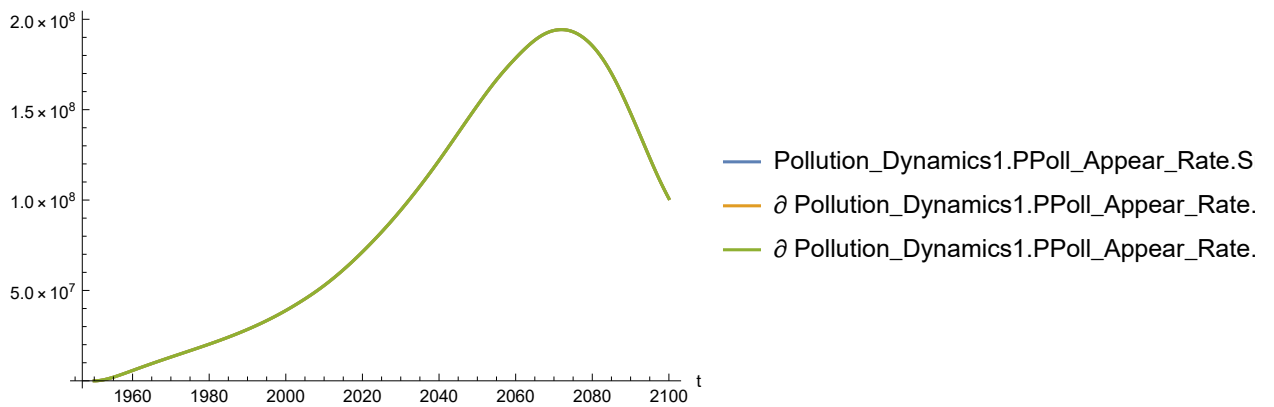
Out[234]=



In[235]:=

```
SystemModelPlot[simsensdata,
  {"Pollution_Dynamics1.PPoll_Appear_Rate.Smooth2.Integrator1.y",
   "Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[6]", percentvar}]
```

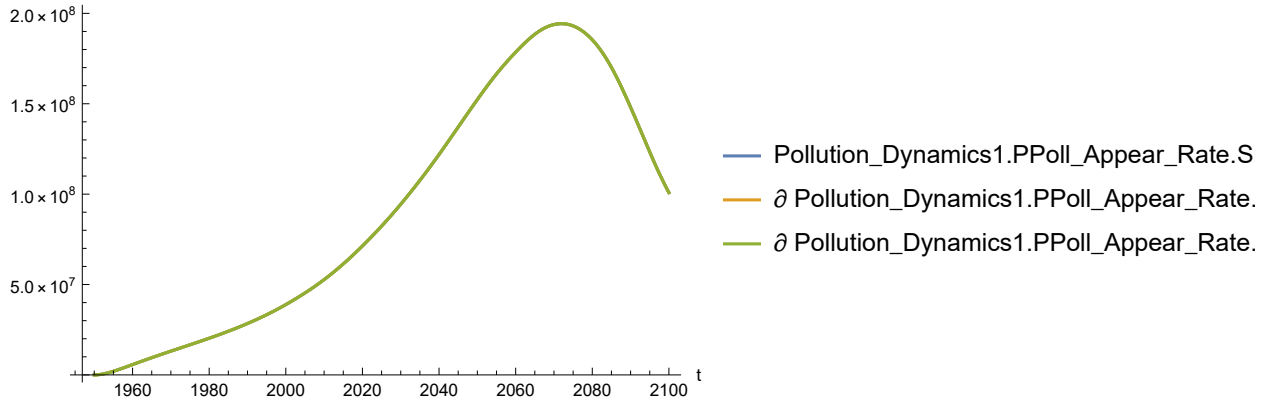
Out[235]=



In[236]:=

```
SystemModelPlot[simsensdata,
  {"Pollution_Dynamics1.PPoll_Appear_Rate.Smooth2.Integrator1.y",
   "Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[7]", percentvar}]
```

Out[236]=

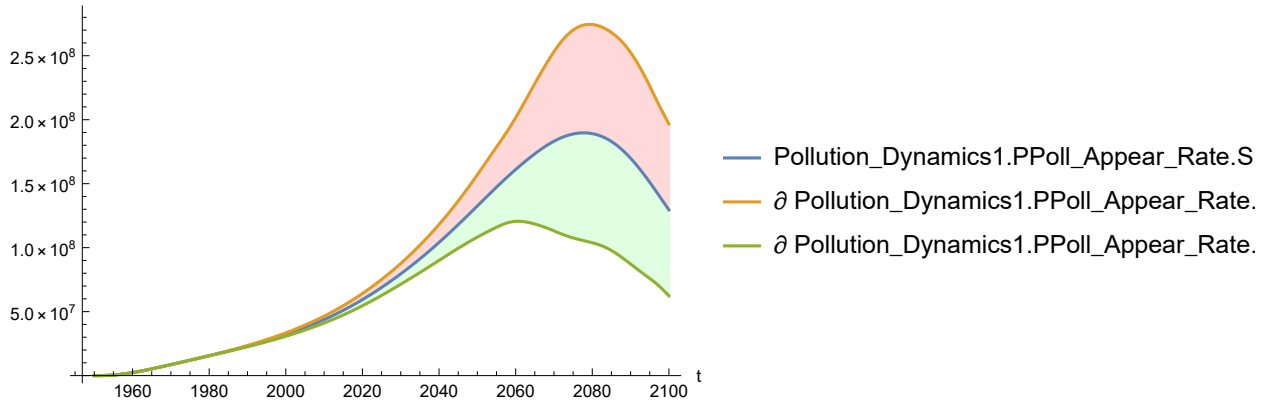


Plot the sensitivity of Pollution_Dynamics1.PPoll_Appear_Rate.Smooth3.Integrator1.y to Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals.

In[237]:=

```
SystemModelPlot[simsensdata,
  {"Pollution_Dynamics1.PPoll_Appear_Rate.Smooth3.Integrator1.y",
   "Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[1]", percentvar}]
```

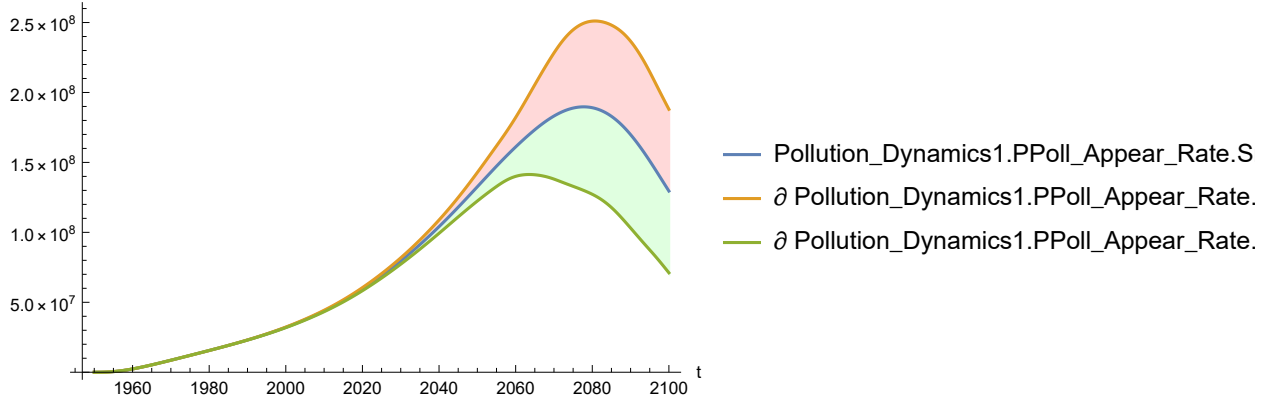
Out[237]=



In[238]:=

```
SystemModelPlot[simsensdata,
  {"Pollution_Dynamics1.PPoll_Appear_Rate.Smooth3.Integrator1.y",
   "Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[2]", percentvar}]
```

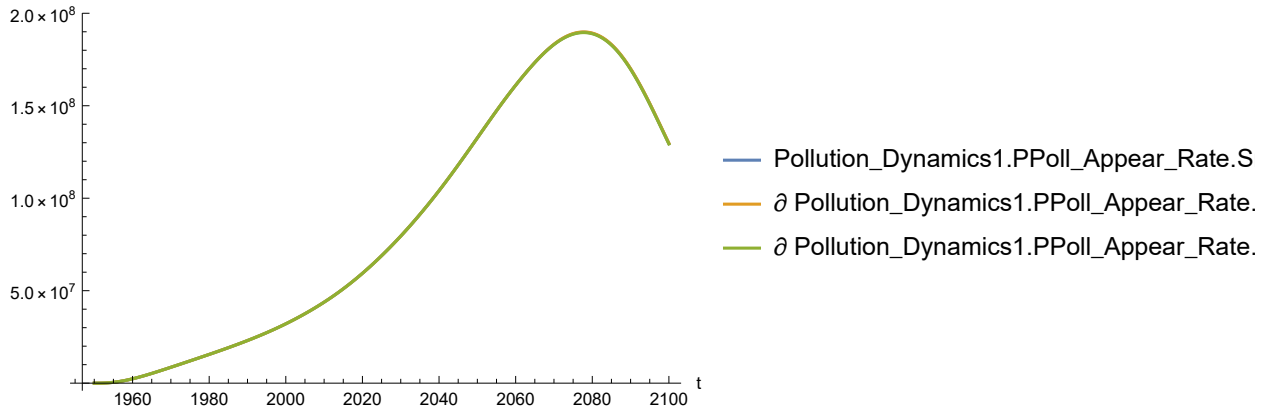
Out[238]=



In[239]:=

```
SystemModelPlot[simsensdata,
  {"Pollution_Dynamics1.PPoll_Appear_Rate.Smooth3.Integrator1.y",
   "Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[3]", percentvar}]
```

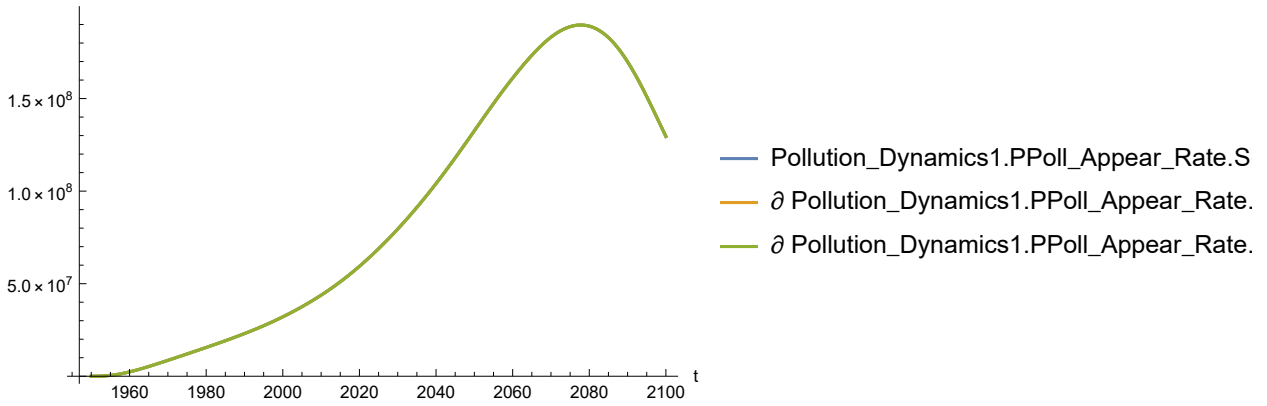
Out[239]=



In[240]:=

```
SystemModelPlot[simsensdata,
  {"Pollution_Dynamics1.PPoll_Appear_Rate.Smooth3.Integrator1.y",
   "Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[4]", percentvar}]
```

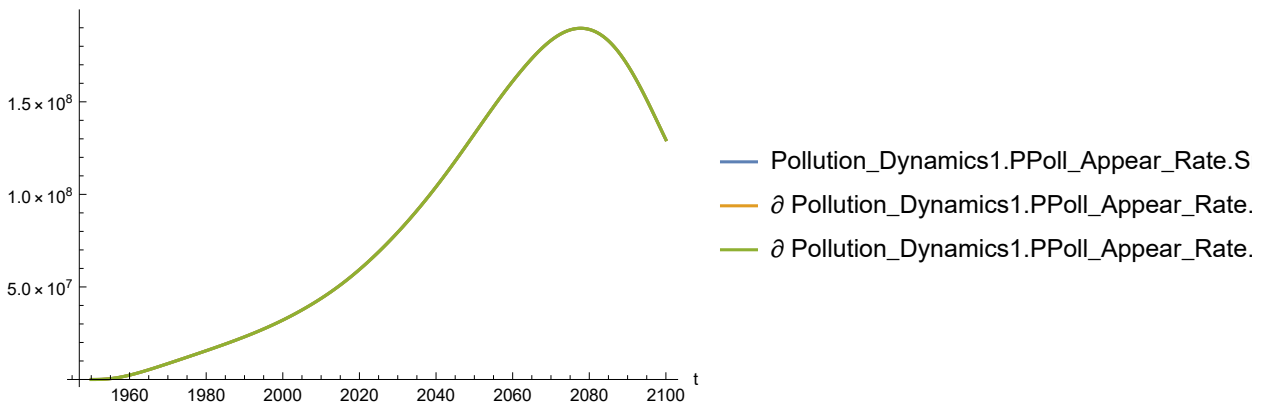
Out[240]=



In[241]:=

```
SystemModelPlot[simsensdata,
  {"Pollution_Dynamics1.PPoll_Appear_Rate.Smooth3.Integrator1.y",
   "Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[5]", percentvar}]
```

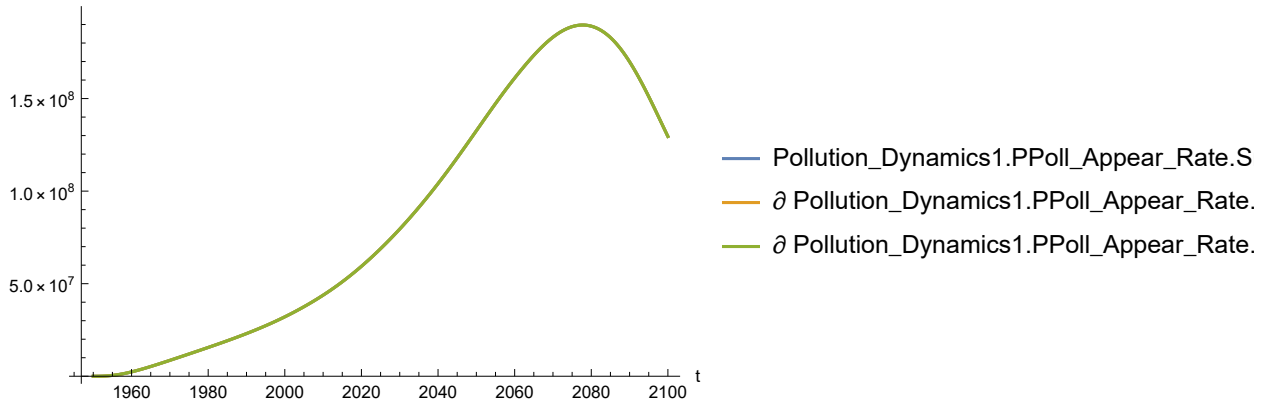
Out[241]=



In[242]:=

```
SystemModelPlot[simsensdata,
  {"Pollution_Dynamics1.PPoll_Appear_Rate.Smooth3.Integrator1.y",
   "Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[6]", percentvar}]
```

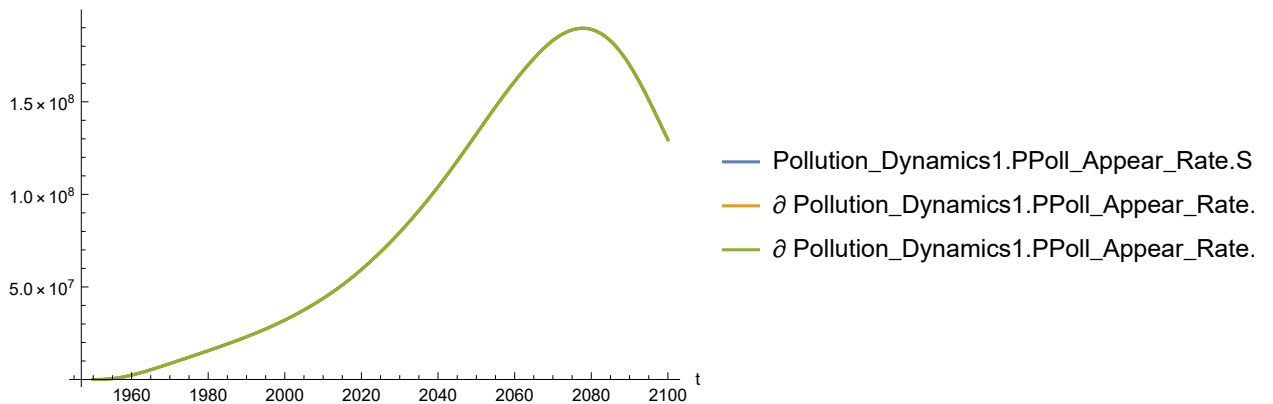
Out[242]=



In[243]:=

```
SystemModelPlot[simsensdata,
  {"Pollution_Dynamics1.PPoll_Appear_Rate.Smooth3.Integrator1.y",
   "Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[7]", percentvar}]
```

Out[243]=

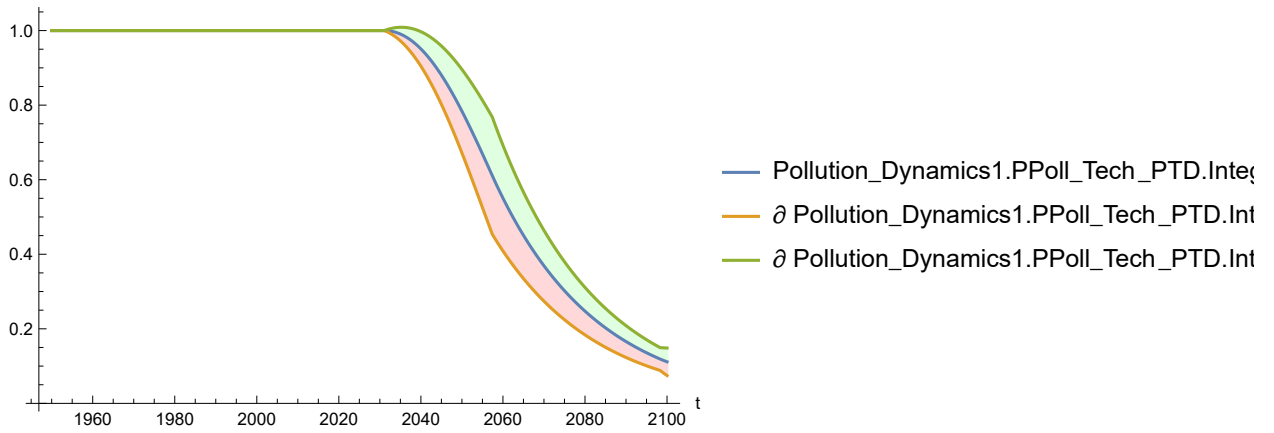


Plot the sensitivity of Pollution_Dynamics1.PPoll_Tech_PTD.Integrator1.y to Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals.

In[244]:=

```
SystemModelPlot[simsensdata, {"Pollution_Dynamics1.PPoll_Tech_PTD.Integrator1.y",
"Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[1]", percentvar}]
```

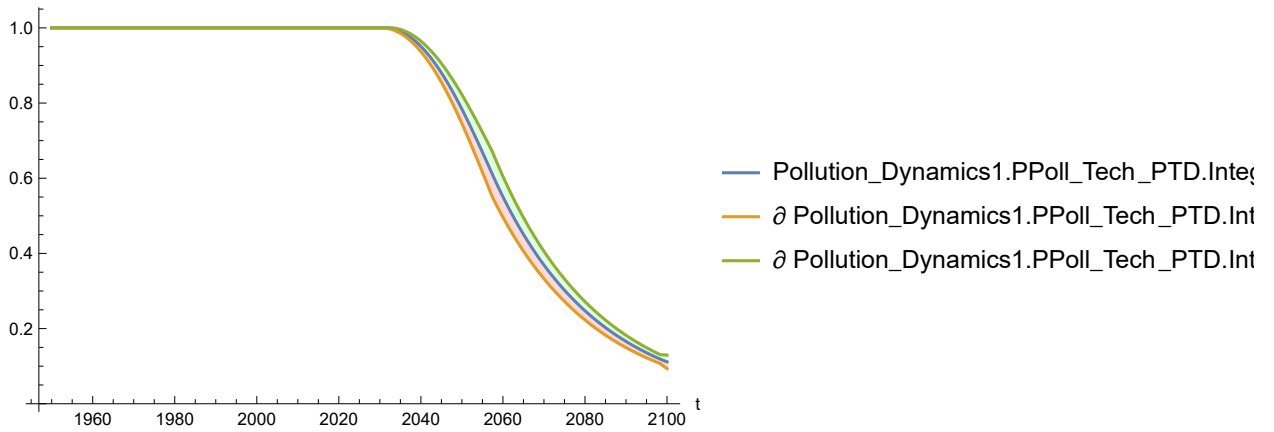
Out[244]=



In[245]:=

```
SystemModelPlot[simsensdata, {"Pollution_Dynamics1.PPoll_Tech_PTD.Integrator1.y",
"Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[2]", percentvar}]
```

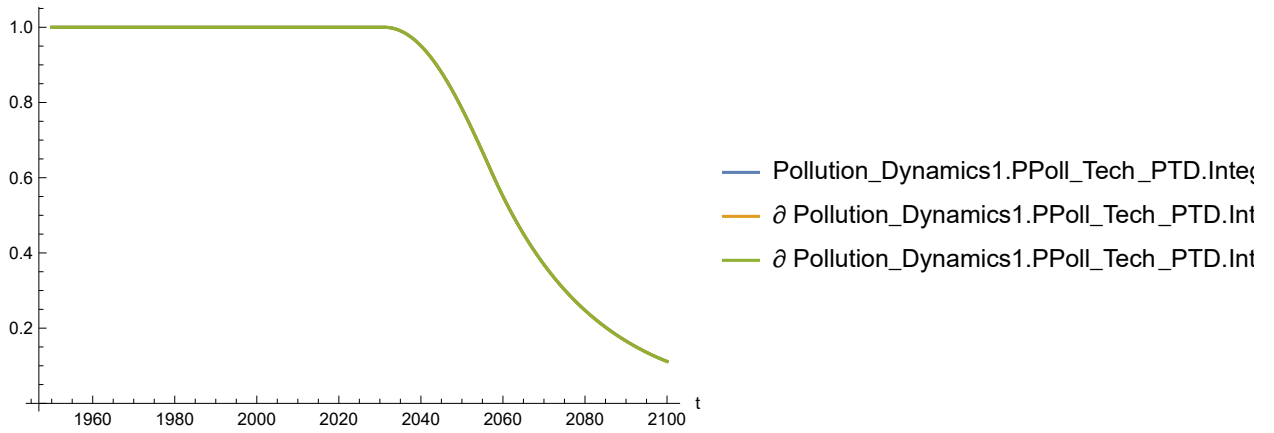
Out[245]=



In[246]:=

```
SystemModelPlot[simsensdata, {"Pollution_Dynamics1.PPoll_Tech_PTD.Integrator1.y",
"Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[3]", percentvar}]
```

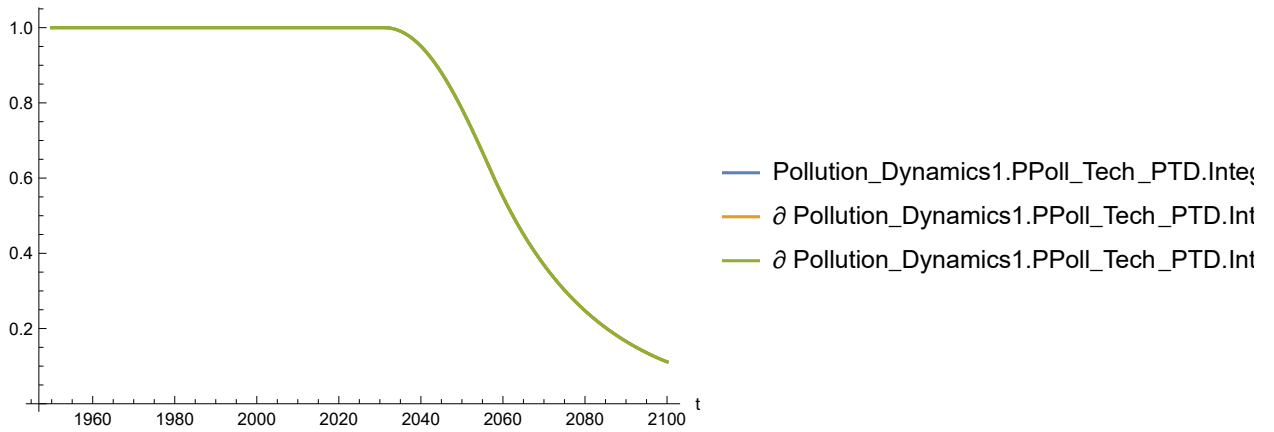
Out[246]=



In[247]:=

```
SystemModelPlot[simsensdata, {"Pollution_Dynamics1.PPoll_Tech_PTD.Integrator1.y",
"Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[4]", percentvar}]
```

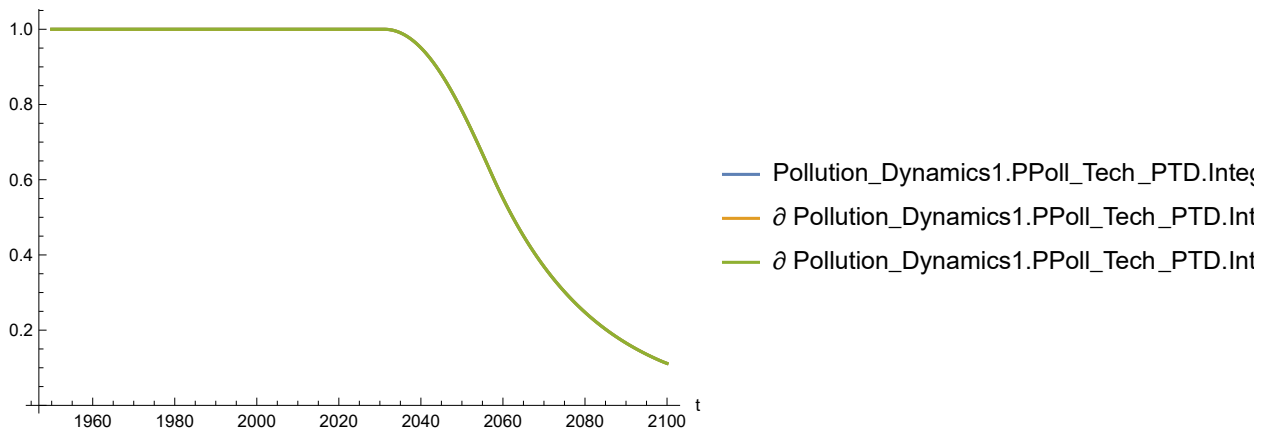
Out[247]=



In[248]:=

```
SystemModelPlot[simsensdata, {"Pollution_Dynamics1.PPoll_Tech_PTD.Integrator1.y",
"Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[5]", percentvar}]
```

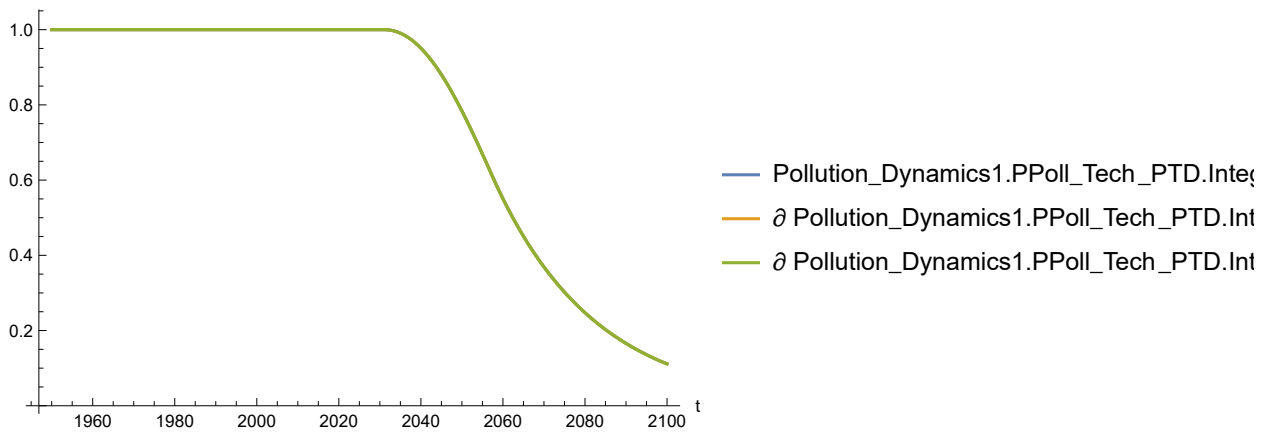
Out[248]=



In[249]:=

```
SystemModelPlot[simsensdata, {"Pollution_Dynamics1.PPoll_Tech_PTD.Integrator1.y",
"Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[6]", percentvar}]
```

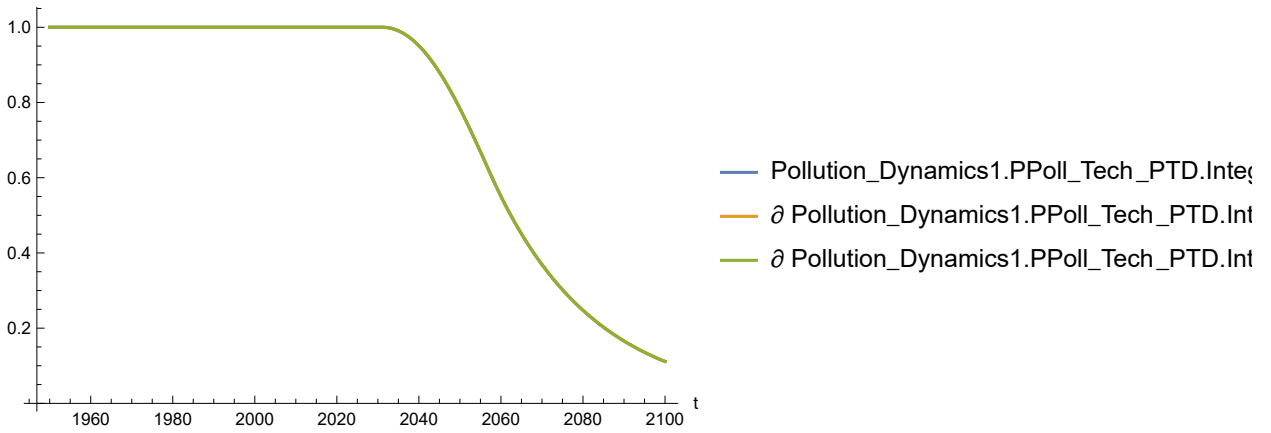
Out[249]=



In[250]:=

```
SystemModelPlot[simsensdata, {"Pollution_Dynamics1.PPoll_Tech_PTD.Integrator1.y",
"Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[7]", percentvar}]]
```

Out[250]=

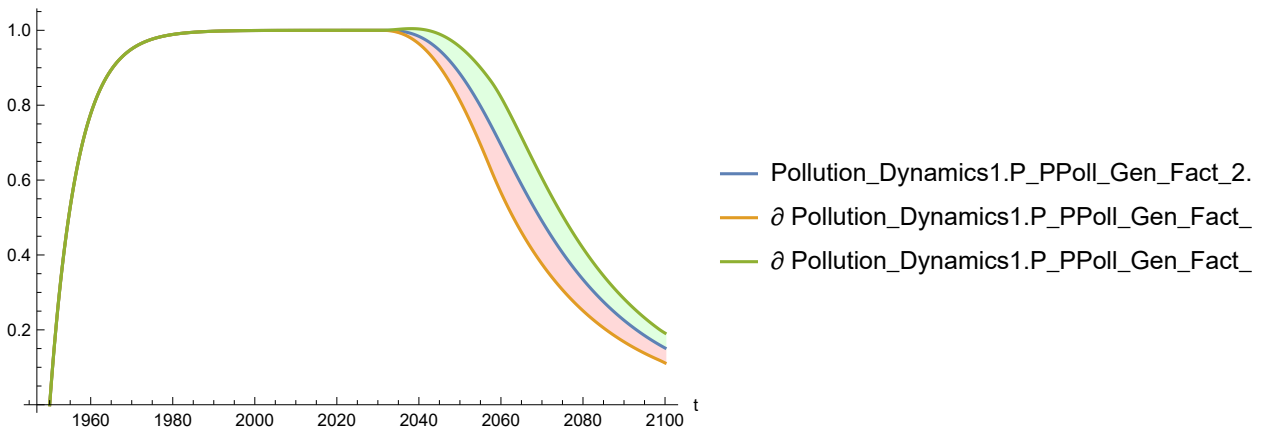


Plot the sensitivity of Pollution_Dynamics1.P_PPoll_Gen_Fact_2.Smooth1.Integrator1.y to Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals.

In[251]:=

```
SystemModelPlot[simsensdata,
{"Pollution_Dynamics1.P_PPoll_Gen_Fact_2.Smooth1.Integrator1.y",
"Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[1]", percentvar}]]
```

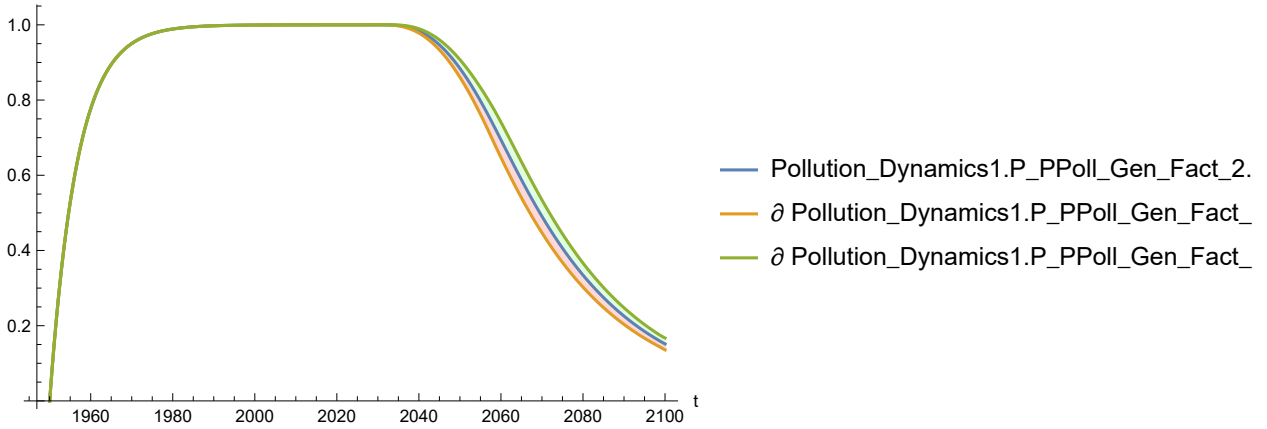
Out[251]=



In[252]:=

```
SystemModelPlot[simsensdata,
  {"Pollution_Dynamics1.P_PPoll_Gen_Fact_2.Smooth1.Integrator1.y",
   "Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[2]", percentvar}]
```

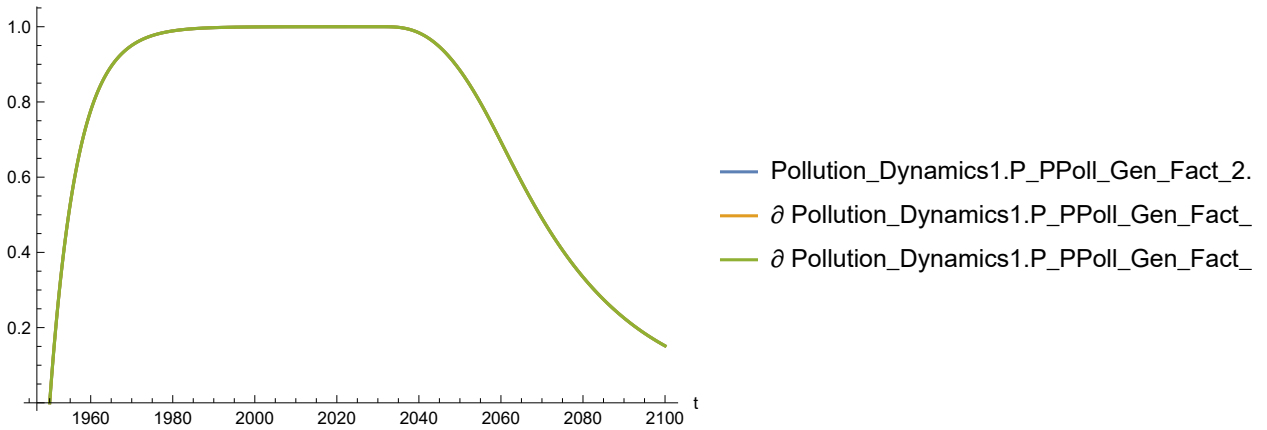
Out[252]=



In[253]:=

```
SystemModelPlot[simsensdata,
  {"Pollution_Dynamics1.P_PPoll_Gen_Fact_2.Smooth1.Integrator1.y",
   "Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[3]", percentvar}]
```

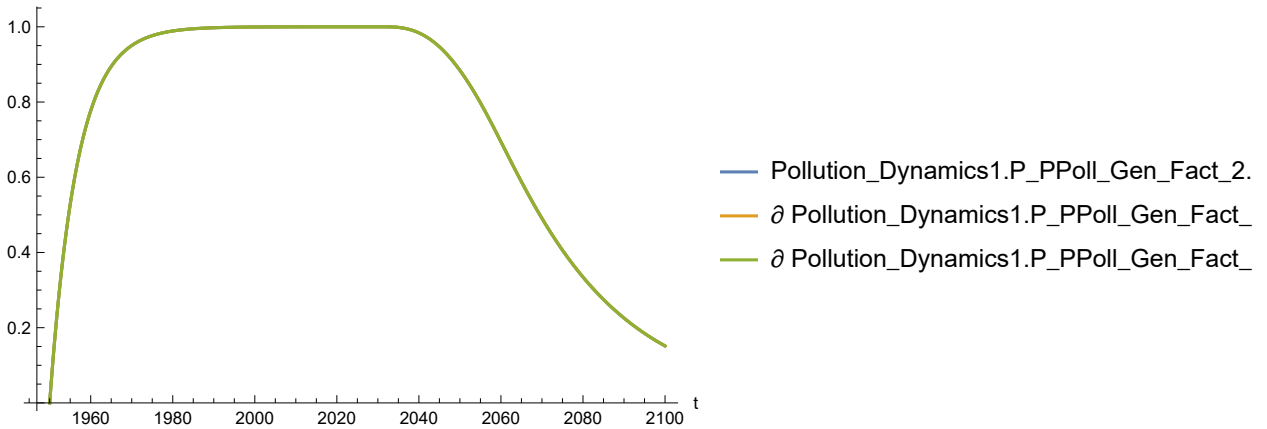
Out[253]=



In[254]:=

```
SystemModelPlot[simsensdata,
  {"Pollution_Dynamics1.P_PPoll_Gen_Fact_2.Smooth1.Integrator1.y",
   "Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[4]", percentvar}]
```

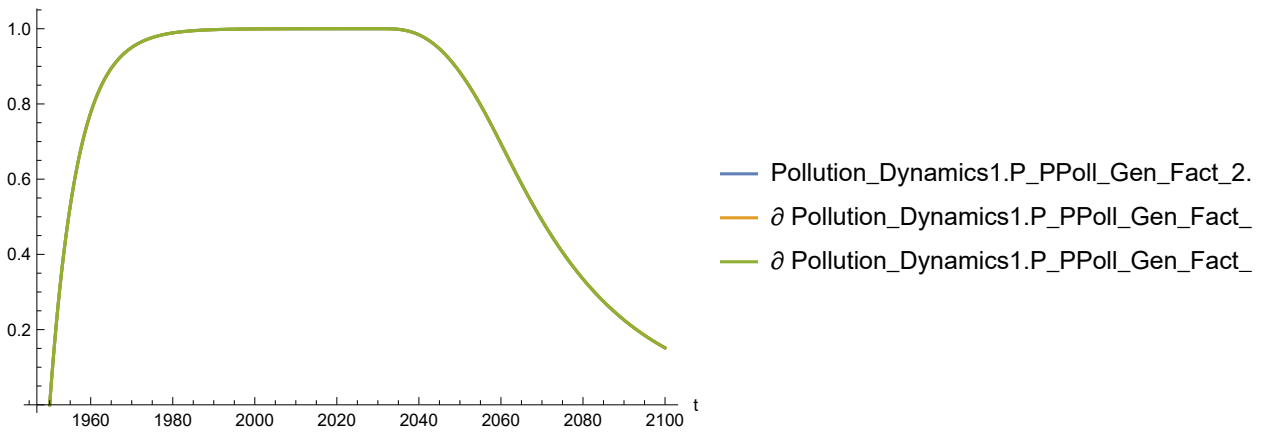
Out[254]=



In[255]:=

```
SystemModelPlot[simsensdata,
  {"Pollution_Dynamics1.P_PPoll_Gen_Fact_2.Smooth1.Integrator1.y",
   "Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[5]", percentvar}]
```

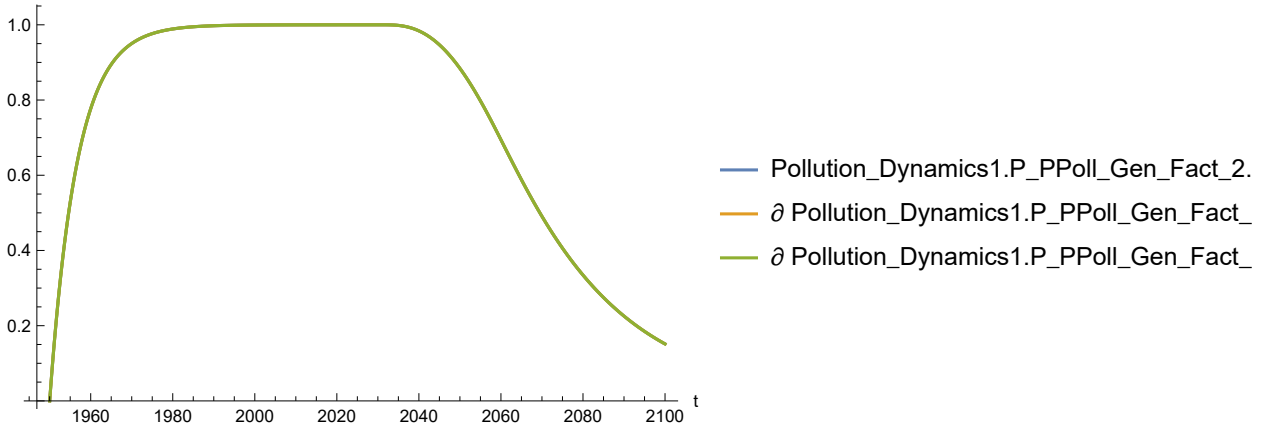
Out[255]=



In[256]:=

```
SystemModelPlot[simsensdata,
  {"Pollution_Dynamics1.P_PPoll_Gen_Fact_2.Smooth1.Integrator1.y",
   "Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[6]", percentvar}]
```

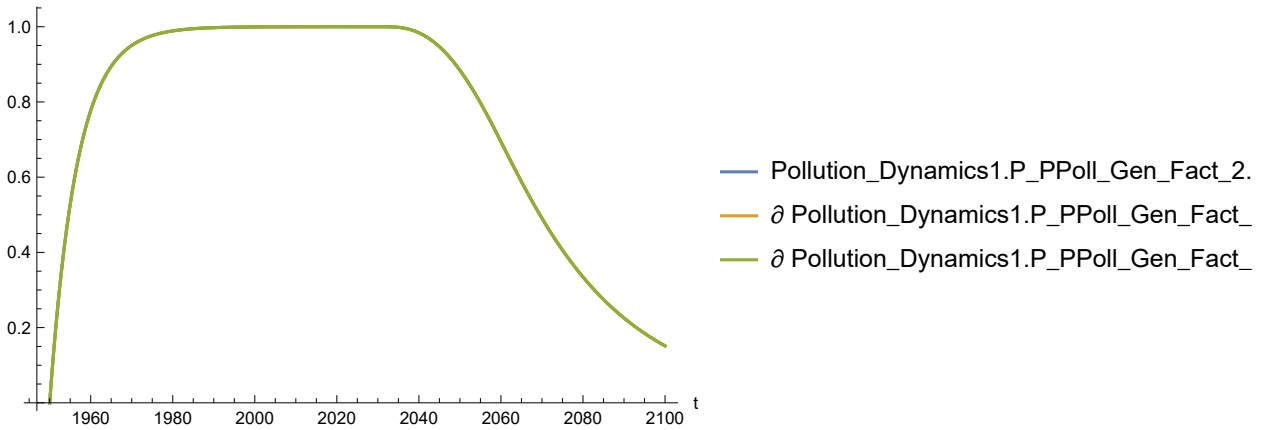
Out[256]=



In[257]:=

```
SystemModelPlot[simsensdata,
  {"Pollution_Dynamics1.P_PPoll_Gen_Fact_2.Smooth1.Integrator1.y",
   "Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[7]", percentvar}]
```

Out[257]=

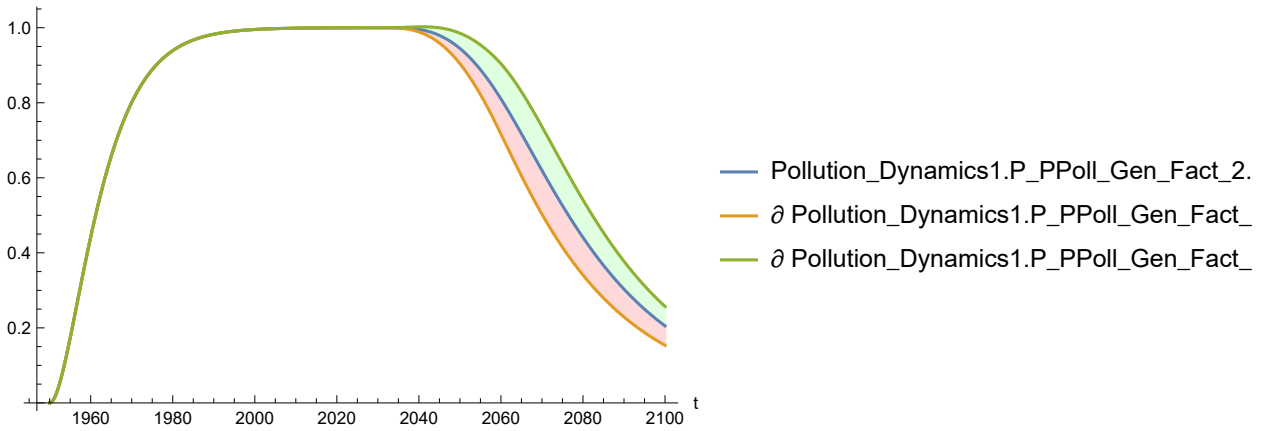


Plot the sensitivity of Pollution_Dynamics1.P_PPoll_Gen_Fact_2.Smooth2.Integrator1.y to Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals.

In[258]:=

```
SystemModelPlot[simsensdata,
  {"Pollution_Dynamics1.P_PPoll_Gen_Fact_2.Smooth2.Integrator1.y",
   "Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[1]", percentvar}]
```

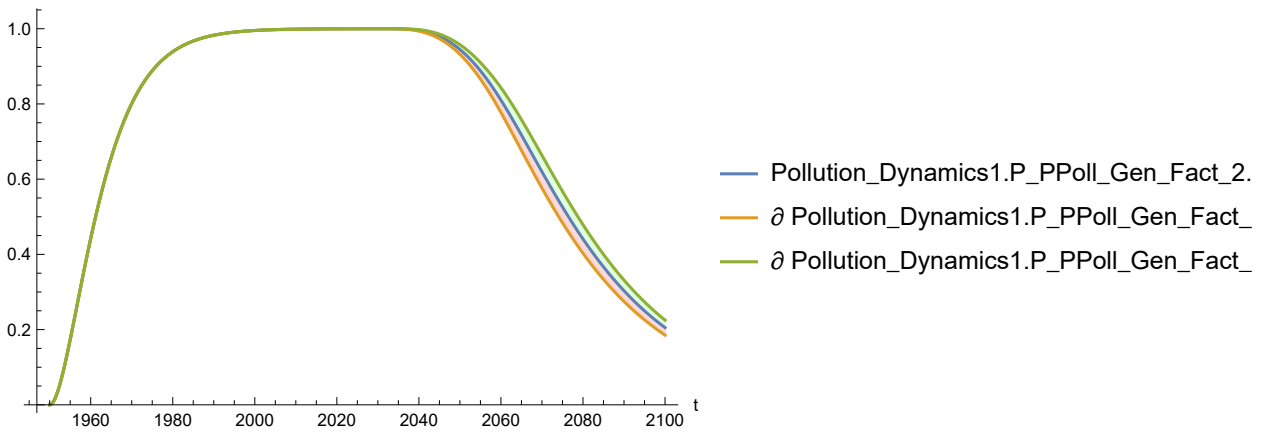
Out[258]=



In[259]:=

```
SystemModelPlot[simsensdata,
  {"Pollution_Dynamics1.P_PPoll_Gen_Fact_2.Smooth2.Integrator1.y",
   "Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[2]", percentvar}]
```

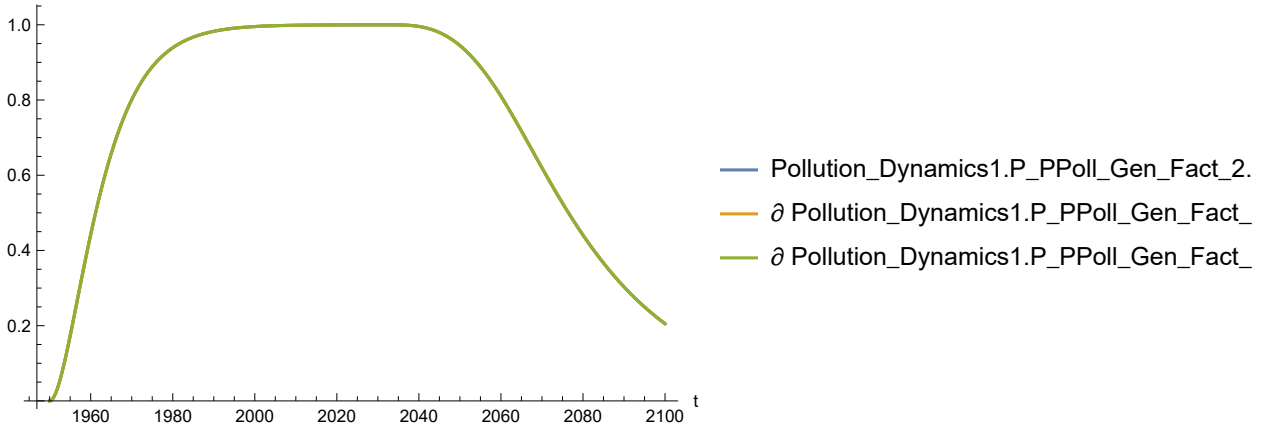
Out[259]=



In[260]:=

```
SystemModelPlot[simsensdata,
  {"Pollution_Dynamics1.P_PPoll_Gen_Fact_2.Smooth2.Integrator1.y",
   "Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[3]", percentvar}]
```

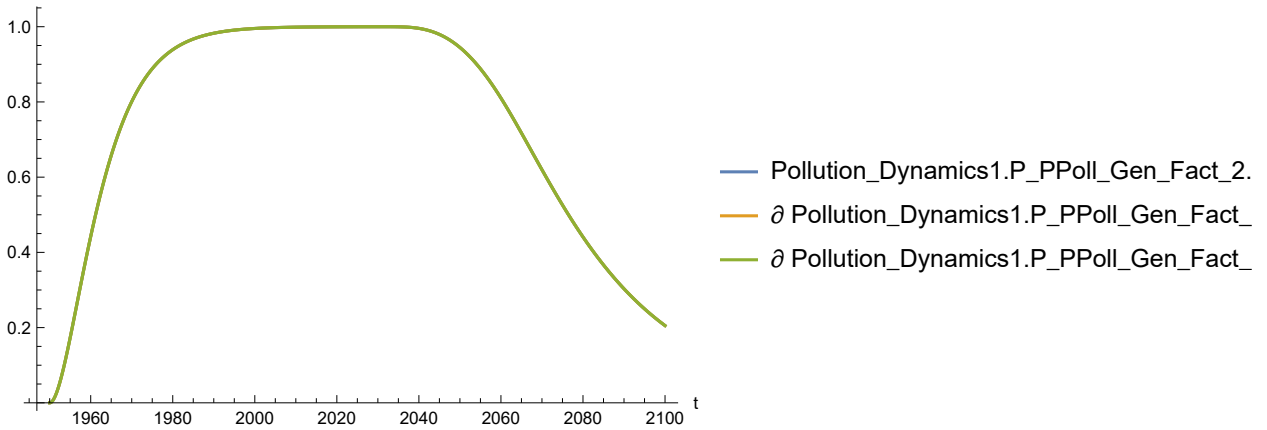
Out[260]=



In[261]:=

```
SystemModelPlot[simsensdata,
  {"Pollution_Dynamics1.P_PPoll_Gen_Fact_2.Smooth2.Integrator1.y",
   "Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[4]", percentvar}]
```

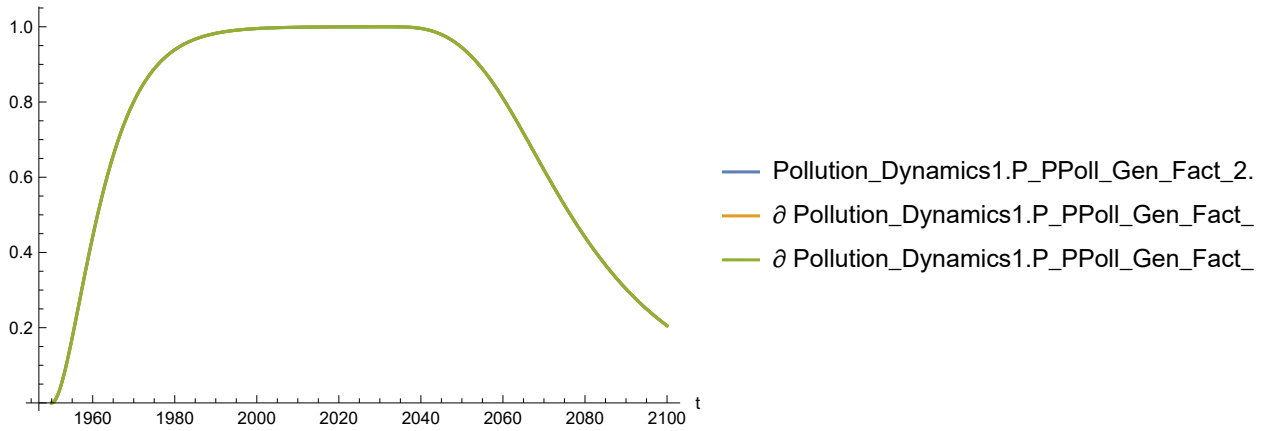
Out[261]=



In[262]:=

```
SystemModelPlot[simsensdata,
  {"Pollution_Dynamics1.P_PPoll_Gen_Fact_2.Smooth2.Integrator1.y",
   "Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[5]", percentvar}]
```

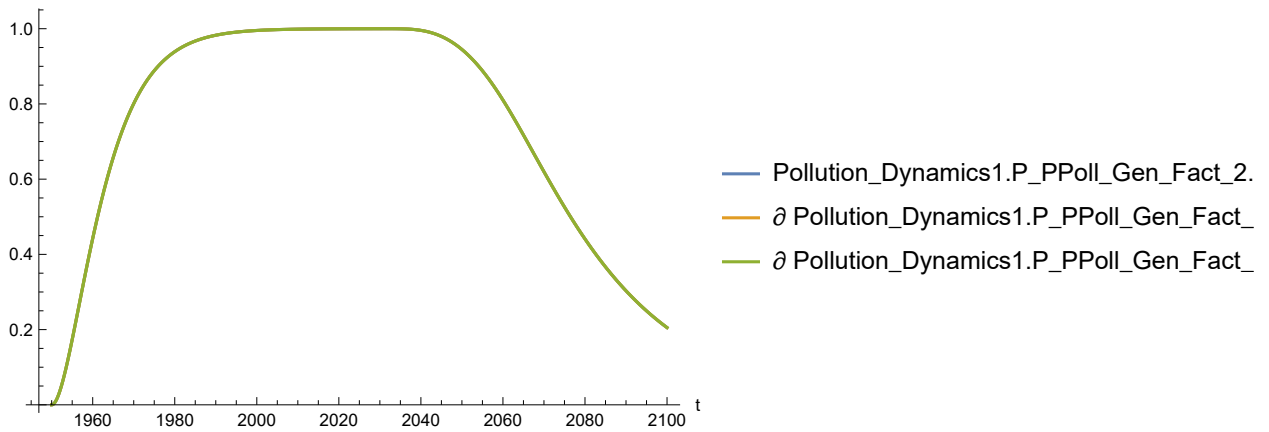
Out[262]=



In[263]:=

```
SystemModelPlot[simsensdata,
  {"Pollution_Dynamics1.P_PPoll_Gen_Fact_2.Smooth2.Integrator1.y",
   "Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[6]", percentvar}]
```

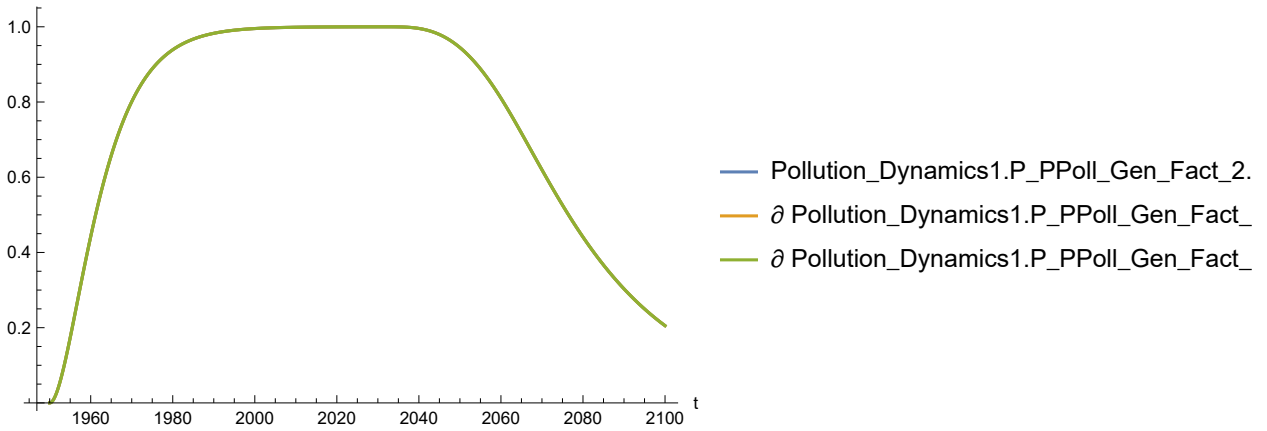
Out[263]=



In[264]:=

```
SystemModelPlot[simsensdata,
  {"Pollution_Dynamics1.P_PPoll_Gen_Fact_2.Smooth2.Integrator1.y",
   "Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[7]", percentvar}]
```

Out[264]=

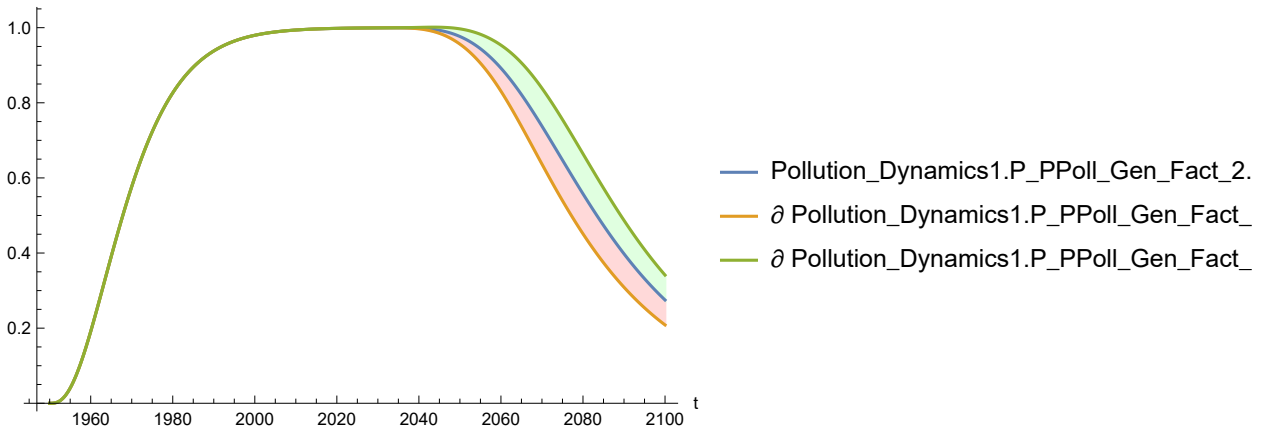


Plot the sensitivity of Pollution_Dynamics1.P_PPoll_Gen_Fact_2.Smooth3.Integrator1.y to Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals.

In[265]:=

```
SystemModelPlot[simsensdata,
  {"Pollution_Dynamics1.P_PPoll_Gen_Fact_2.Smooth3.Integrator1.y",
   "Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[1]", percentvar}]
```

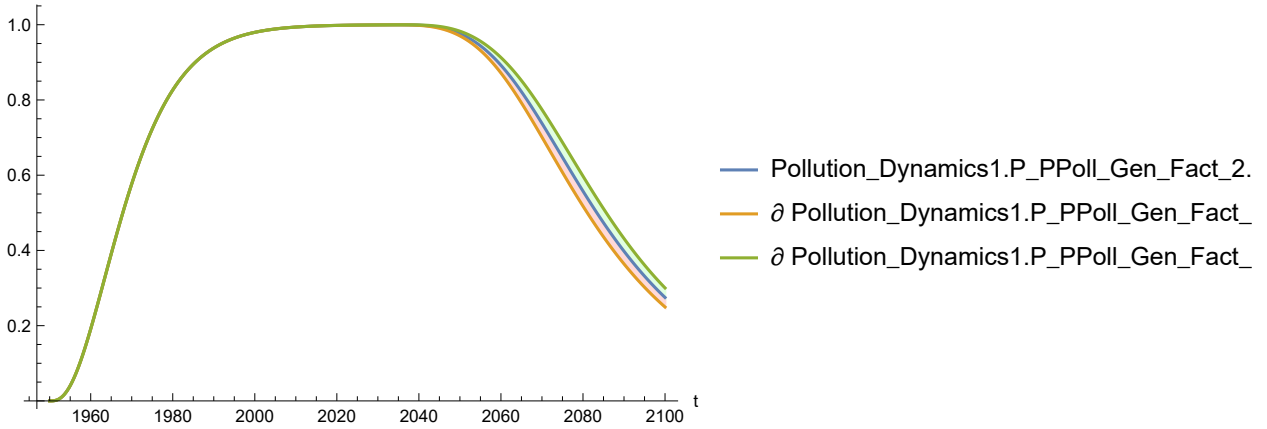
Out[265]=



In[266]:=

```
SystemModelPlot[simsensdata,
  {"Pollution_Dynamics1.P_PPoll_Gen_Fact_2.Smooth3.Integrator1.y",
   "Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[2]", percentvar}]
```

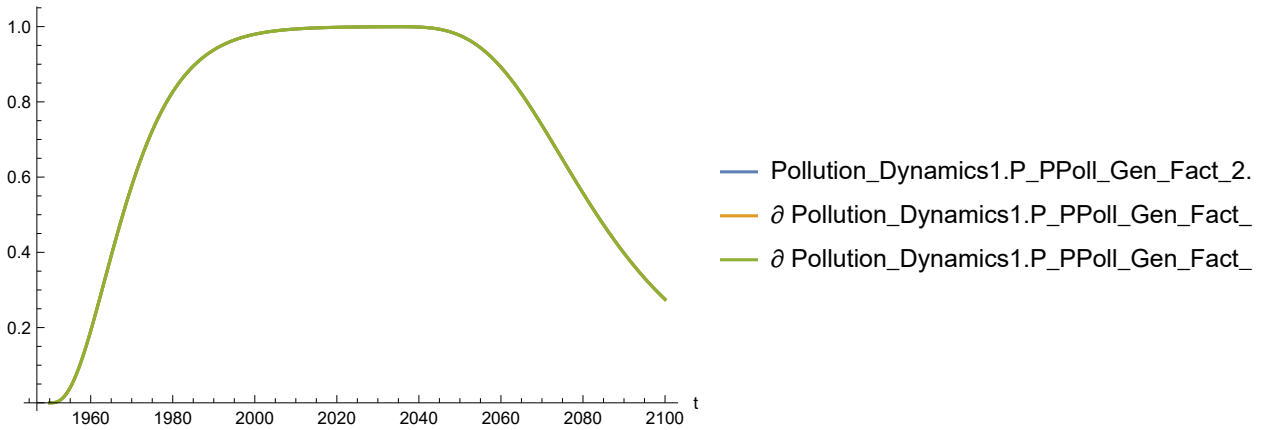
Out[266]=



In[267]:=

```
SystemModelPlot[simsensdata,
  {"Pollution_Dynamics1.P_PPoll_Gen_Fact_2.Smooth3.Integrator1.y",
   "Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[3]", percentvar}]
```

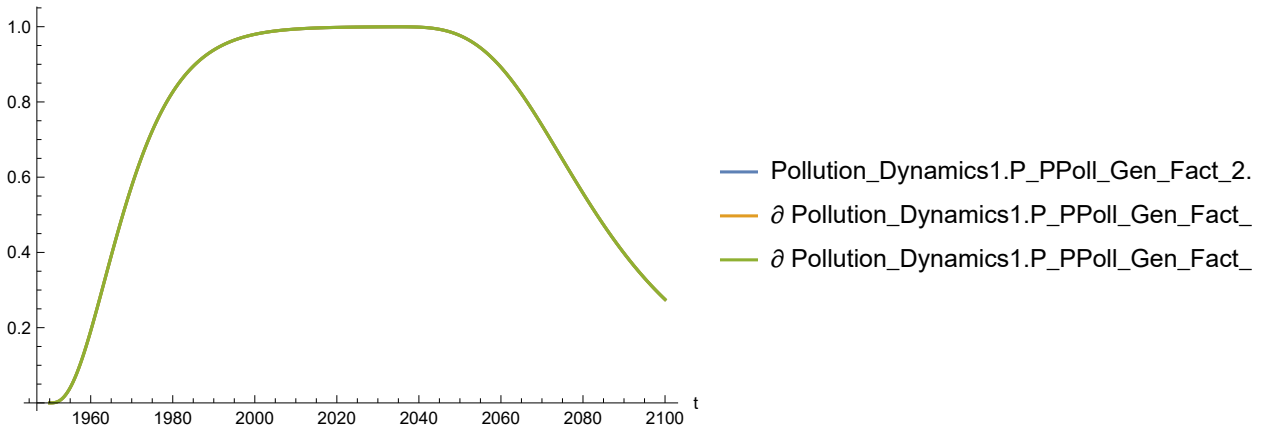
Out[267]=



In[268]:=

```
SystemModelPlot[simsensdata,
  {"Pollution_Dynamics1.P_PPoll_Gen_Fact_2.Smooth3.Integrator1.y",
   "Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[4]", percentvar}]
```

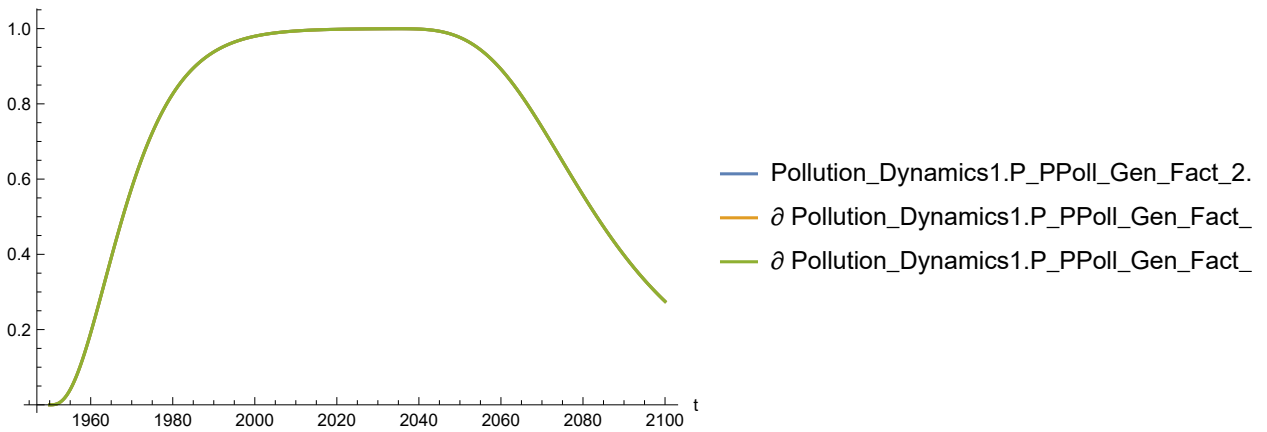
Out[268]=



In[269]:=

```
SystemModelPlot[simsensdata,
  {"Pollution_Dynamics1.P_PPoll_Gen_Fact_2.Smooth3.Integrator1.y",
   "Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[5]", percentvar}]
```

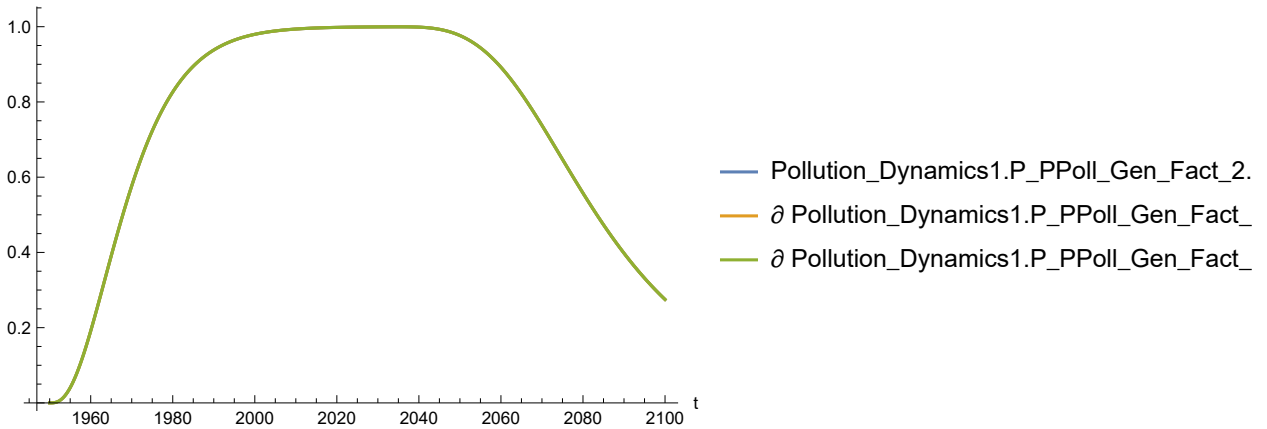
Out[269]=



In[270]:=

```
SystemModelPlot[simsensdata,
  {"Pollution_Dynamics1.P_PPoll_Gen_Fact_2.Smooth3.Integrator1.y",
   "Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[6]", percentvar}]
```

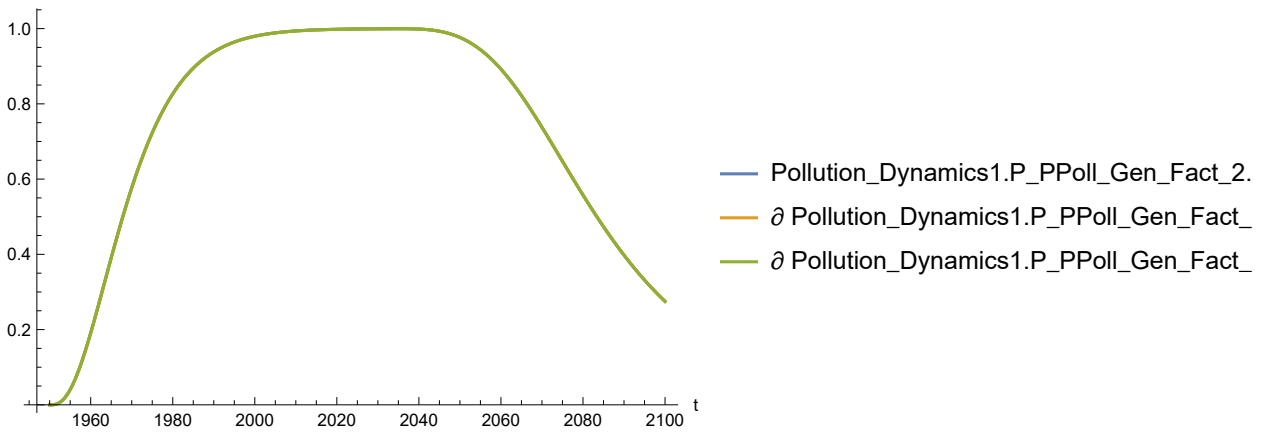
Out[270]=



In[271]:=

```
SystemModelPlot[simsensdata,
  {"Pollution_Dynamics1.P_PPoll_Gen_Fact_2.Smooth3.Integrator1.y",
   "Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[7]", percentvar}]
```

Out[271]=

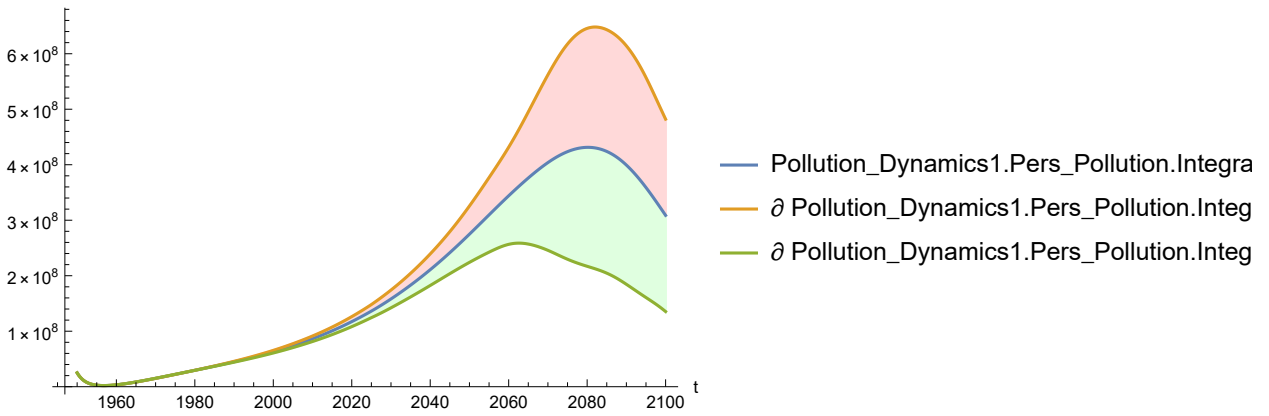


Plot the sensitivity of `Pollution_Dynamics1.Pers_Pollution.Integrator1.y` to `Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals`.

In[272]:=

```
SystemModelPlot[simsensdata, {"Pollution_Dynamics1.Pers_Pollution.Integrator1.y",
"Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[1]", percentvar}]
```

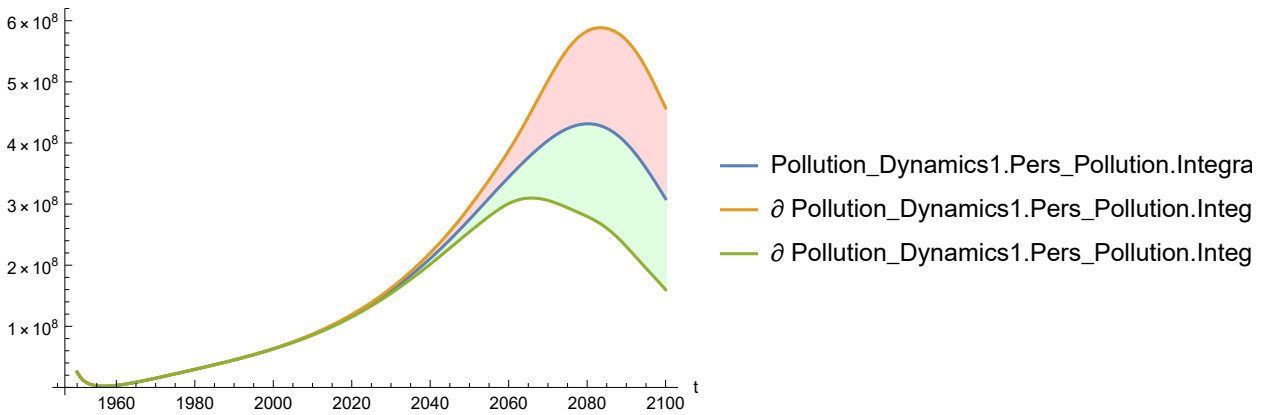
Out[272]=



In[273]:=

```
SystemModelPlot[simsensdata, {"Pollution_Dynamics1.Pers_Pollution.Integrator1.y",
"Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[2]", percentvar}]
```

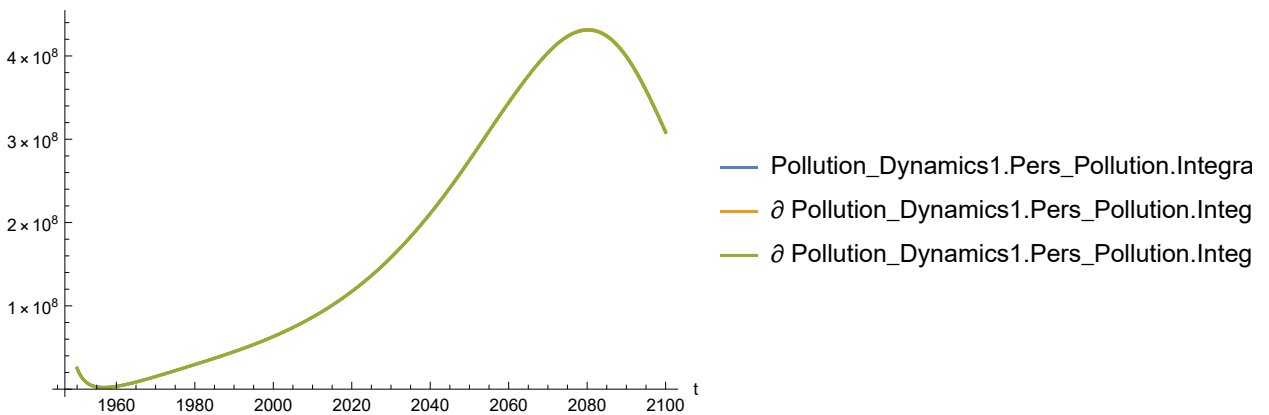
Out[273]=



In[274]:=

```
SystemModelPlot[simsensdata, {"Pollution_Dynamics1.Pers_Pollution.Integrator1.y",
"Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[3]", percentvar}]
```

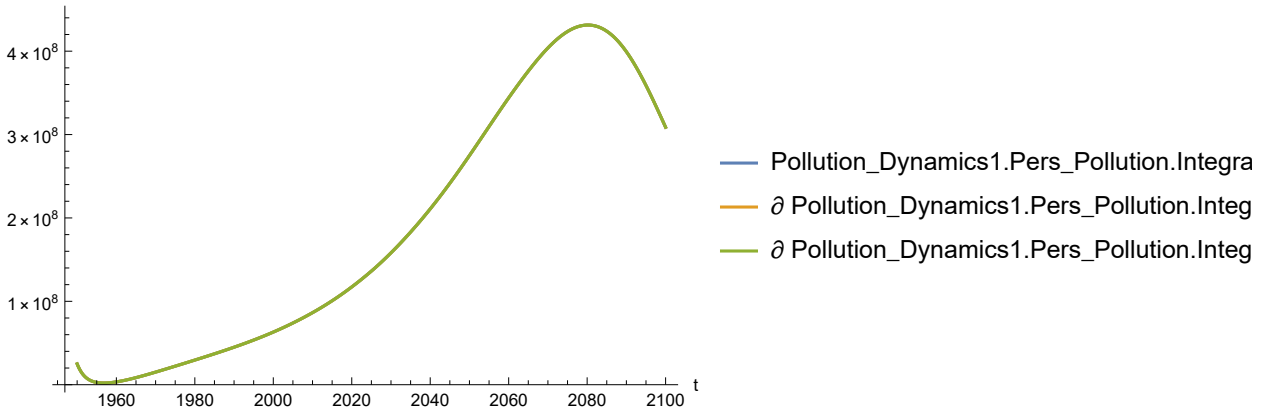
Out[274]=



In[275]:=

```
SystemModelPlot[simsensdata, {"Pollution_Dynamics1.Pers_Pollution.Integrator1.y",
"Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[4]", percentvar}]
```

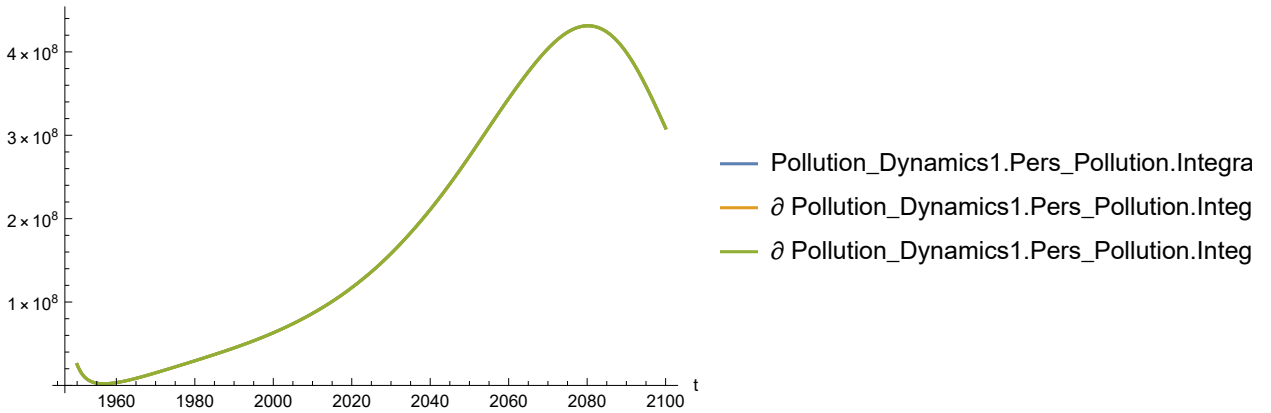
Out[275]=



In[276]:=

```
SystemModelPlot[simsensdata, {"Pollution_Dynamics1.Pers_Pollution.Integrator1.y",
"Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[5]", percentvar}]
```

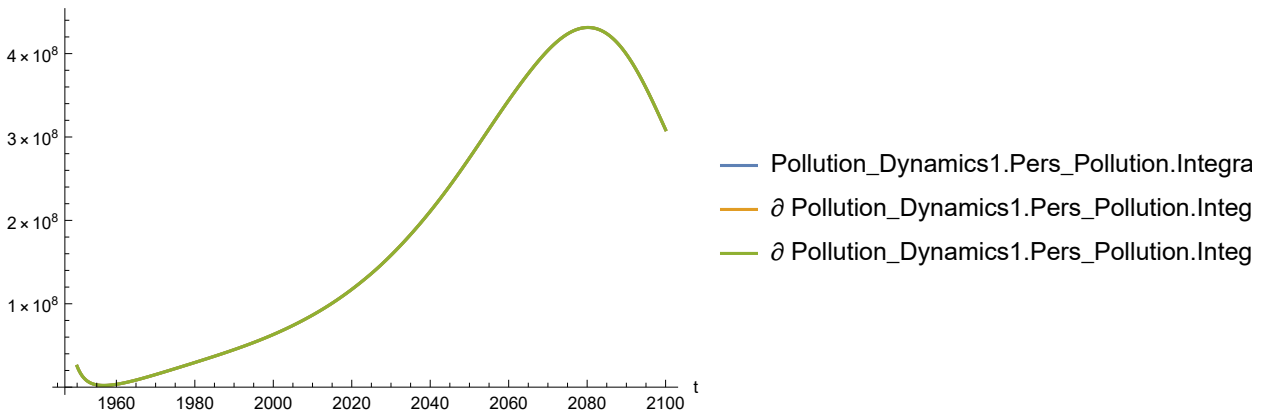
Out[276]=



In[277]:=

```
SystemModelPlot[simsensdata, {"Pollution_Dynamics1.Pers_Pollution.Integrator1.y",
"Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[6]", percentvar}]
```

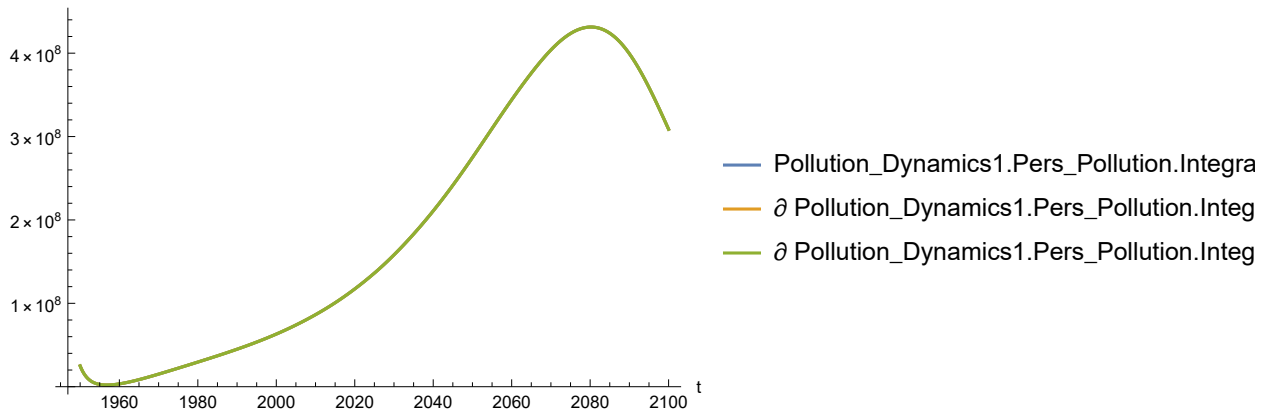
Out[277]=



In[278]:=

```
SystemModelPlot[simsensdata, {"Pollution_Dynamics1.Pers_Pollution.Integrator1.y",
"Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[7]", percentvar}]
```

Out[278]=

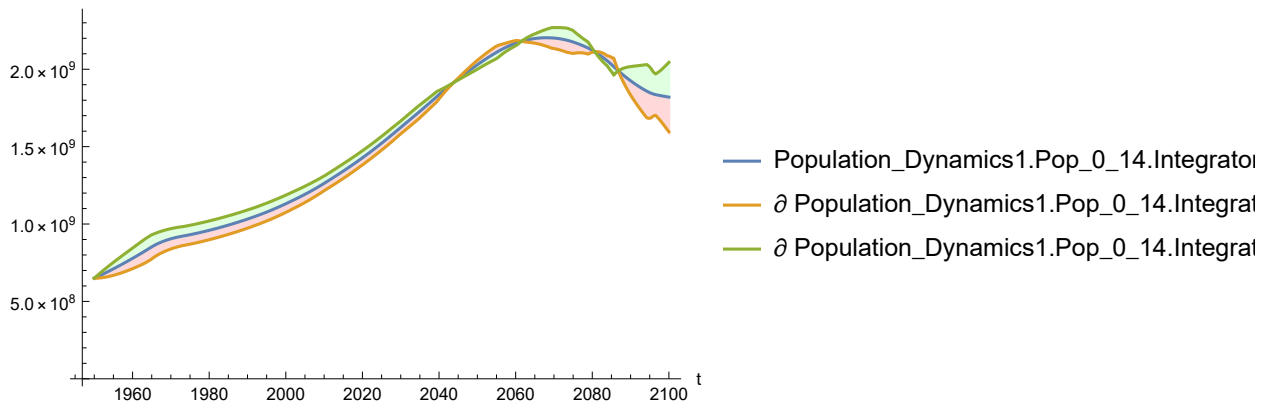


Plot sensitivity of population to **Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals**. In World3, popula- tion is divided into four subpopulations by age: 0-14 years, 15-44 years, 45-64 years, and 65 year and over.

In[279]:=

```
SystemModelPlot[simsensdata, {"Population_Dynamics1.Pop_0_14.Integrator1.y",
"Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[1]", percentvar}]
```

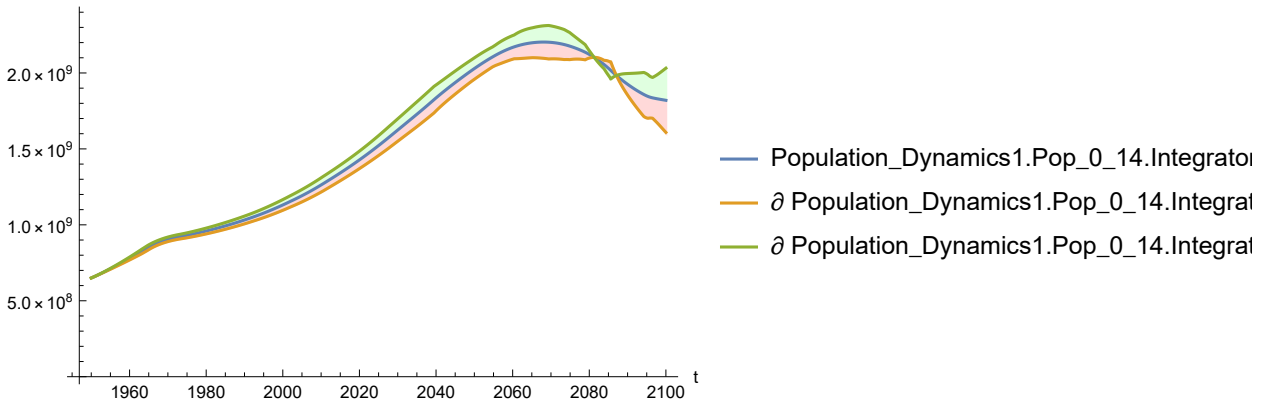
Out[279]=



In[280]:=

```
SystemModelPlot[simsensdata, {"Population_Dynamics1.Pop_0_14.Integrator1.y",
"Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[2]", percentvar}]
```

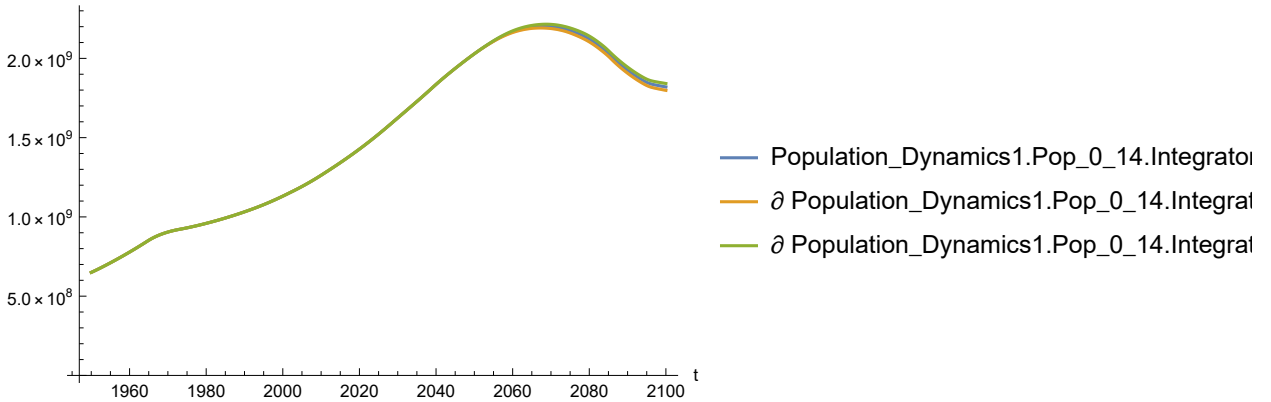
Out[280]=



In[281]:=

```
SystemModelPlot[simsensdata, {"Population_Dynamics1.Pop_0_14.Integrator1.y",
"Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[3]", percentvar}]
```

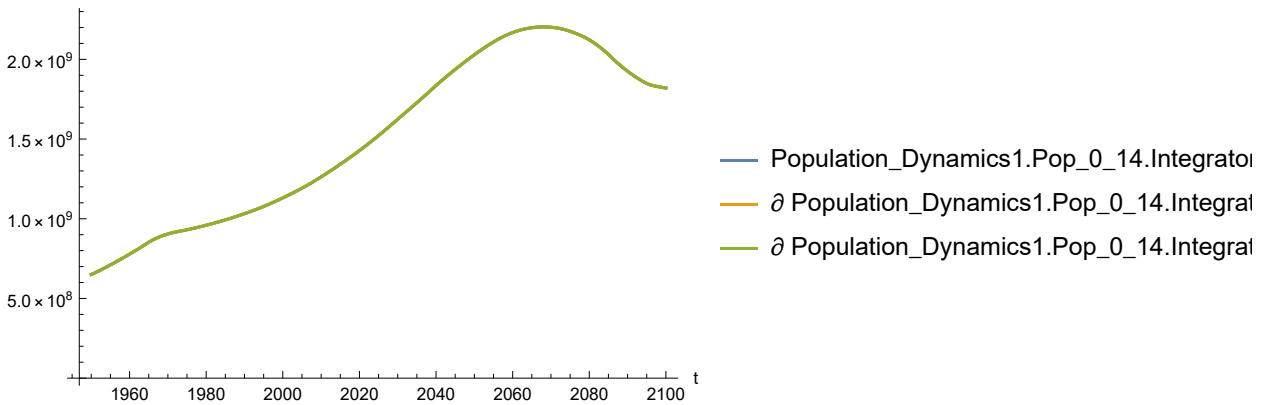
Out[281]=



In[282]:=

```
SystemModelPlot[simsensdata, {"Population_Dynamics1.Pop_0_14.Integrator1.y",
"Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[4]", percentvar}]
```

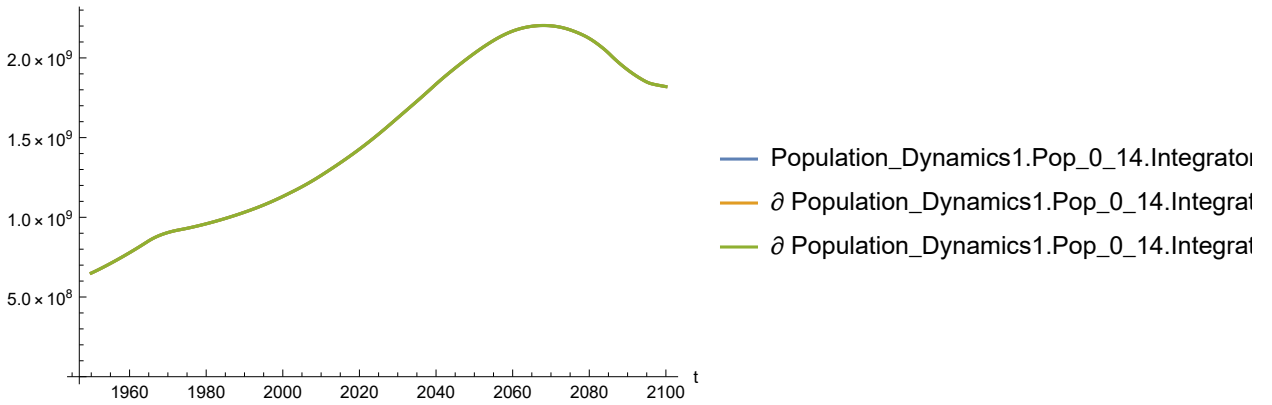
Out[282]=



In[283]:=

```
SystemModelPlot[simsensdata, {"Population_Dynamics1.Pop_0_14.Integrator1.y",
"Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[5]", percentvar}]
```

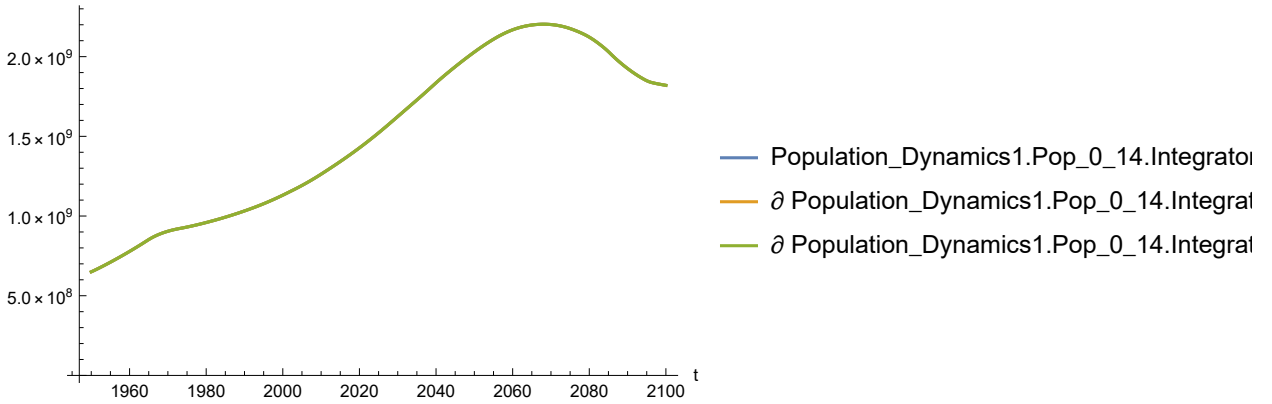
Out[283]=



In[284]:=

```
SystemModelPlot[simsensdata, {"Population_Dynamics1.Pop_0_14.Integrator1.y",
"Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[6]", percentvar}]
```

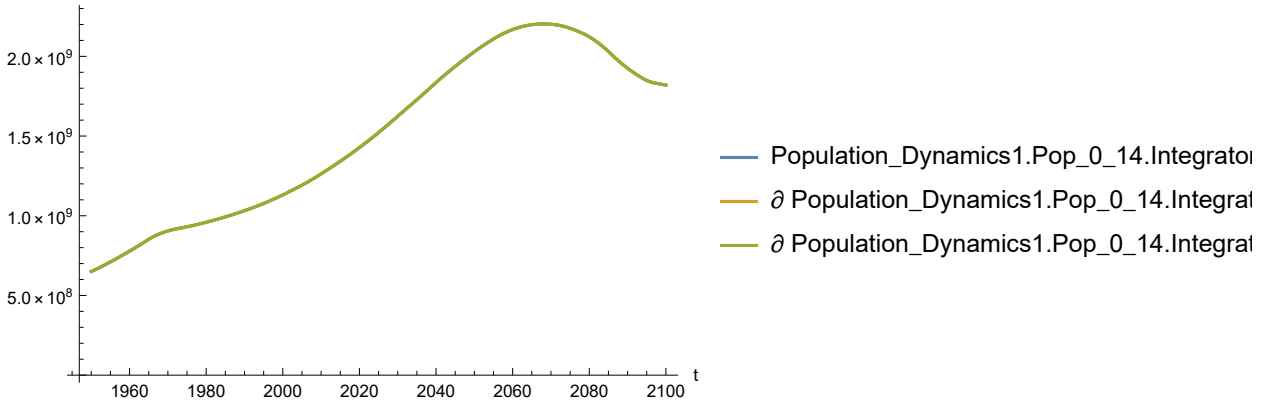
Out[284]=



In[285]:=

```
SystemModelPlot[simsensdata, {"Population_Dynamics1.Pop_0_14.Integrator1.y",
"Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[7]", percentvar}]
```

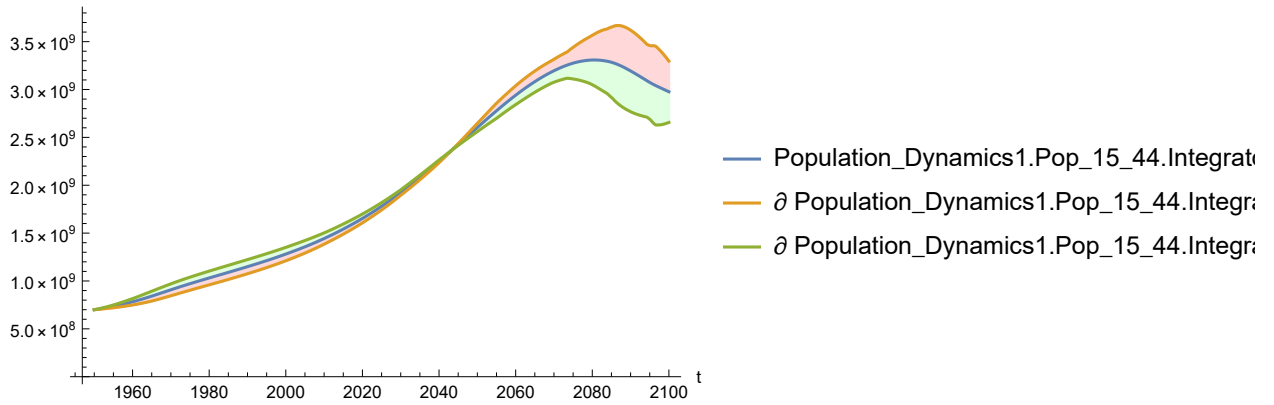
Out[285]=



In[286]:=

```
SystemModelPlot[simsensdata, {"Population_Dynamics1.Pop_15_44.Integrator1.y",
"Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[1]", percentvar}]
```

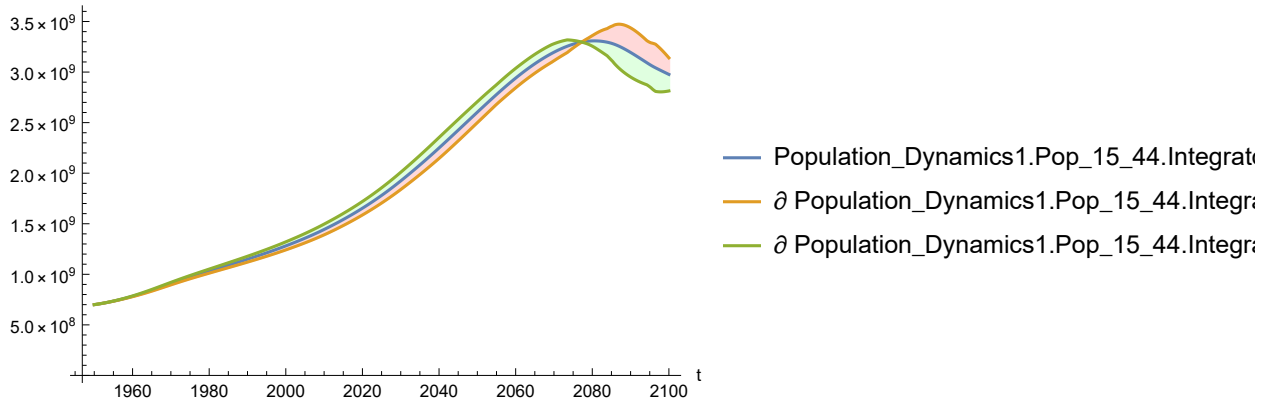
Out[286]=



In[287]:=

```
SystemModelPlot[simsensdata, {"Population_Dynamics1.Pop_15_44.Integrator1.y",
"Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[2]", percentvar}]
```

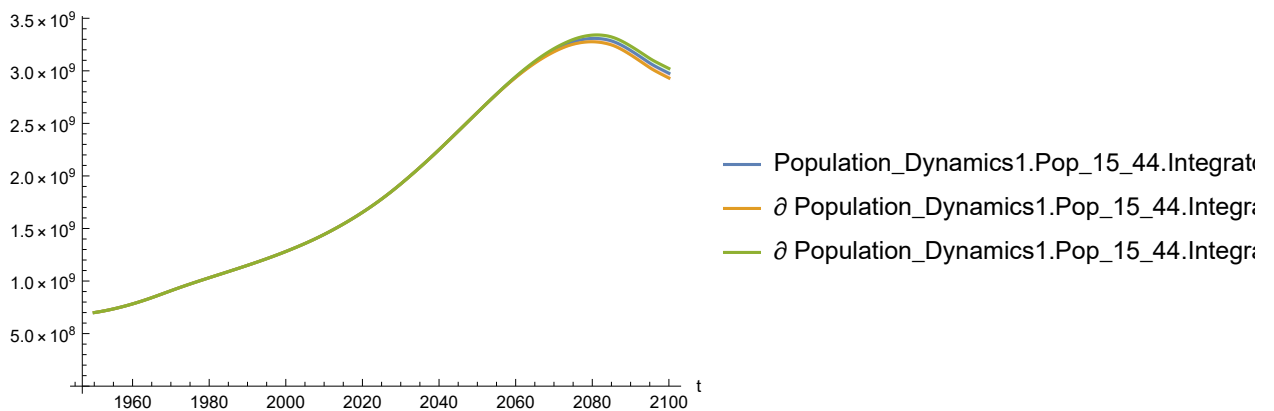
Out[287]=



In[288]:=

```
SystemModelPlot[simsensdata, {"Population_Dynamics1.Pop_15_44.Integrator1.y",
"Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[3]", percentvar}]
```

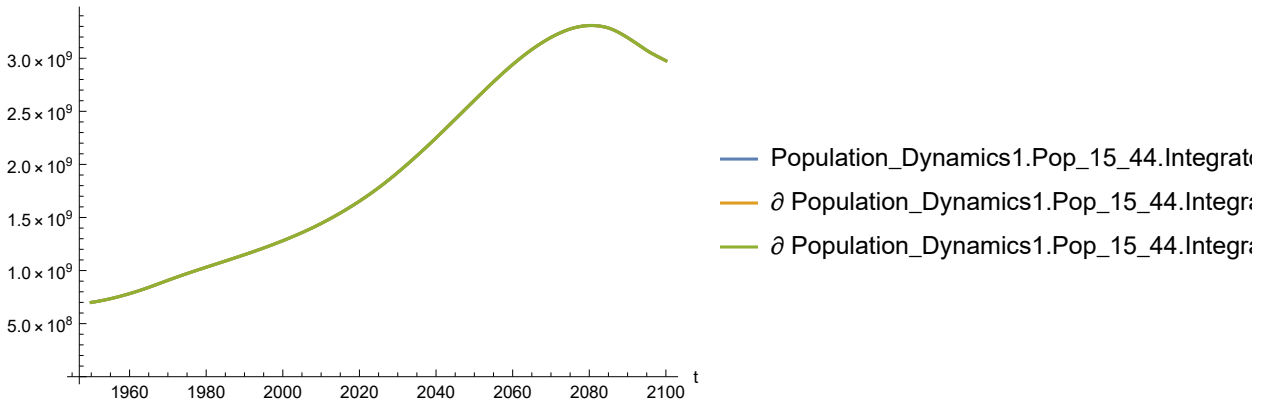
Out[288]=



In[289]:=

```
SystemModelPlot[simsensdata, {"Population_Dynamics1.Pop_15_44.Integrator1.y",
"Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[4]", percentvar}]
```

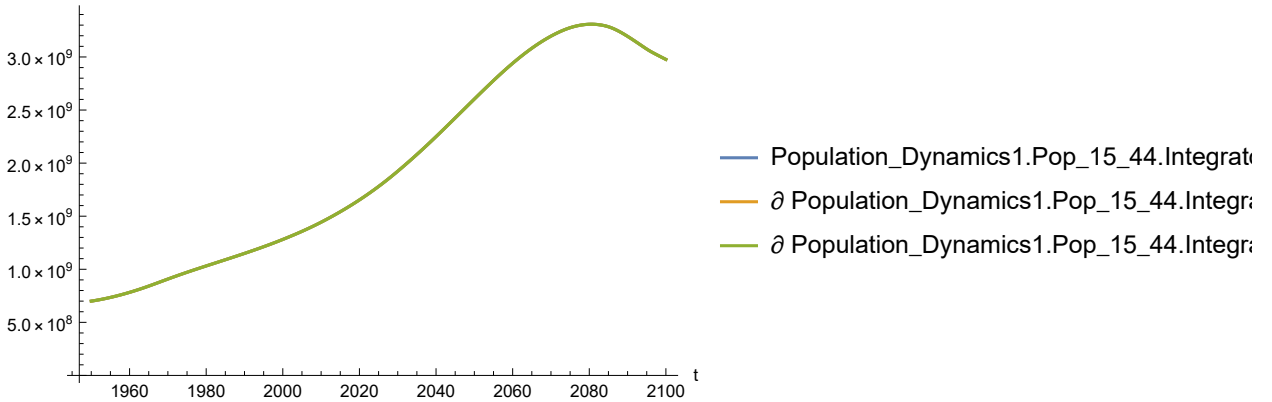
Out[289]=



In[290]:=

```
SystemModelPlot[simsensdata, {"Population_Dynamics1.Pop_15_44.Integrator1.y",
"Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[5]", percentvar}]
```

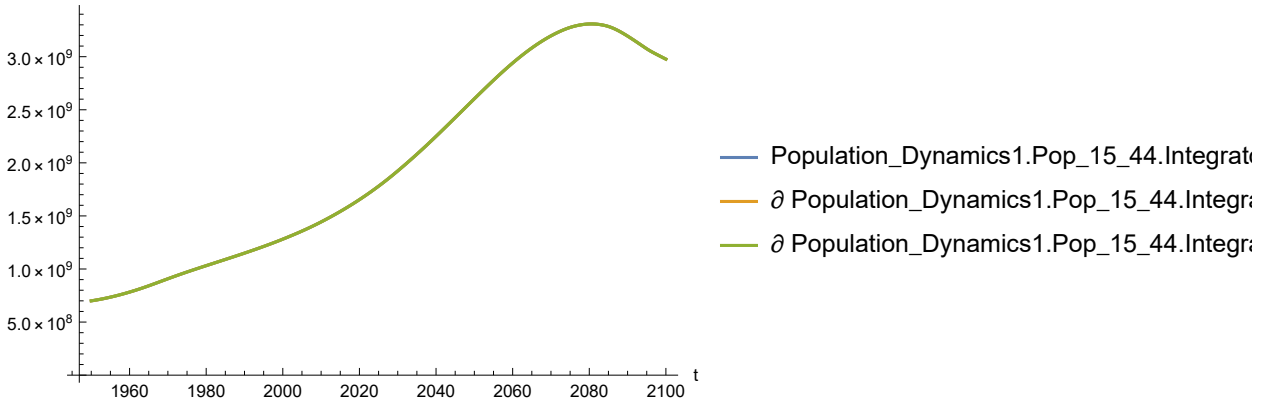
Out[290]=



In[291]:=

```
SystemModelPlot[simsensdata, {"Population_Dynamics1.Pop_15_44.Integrator1.y",
"Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[6]", percentvar}]
```

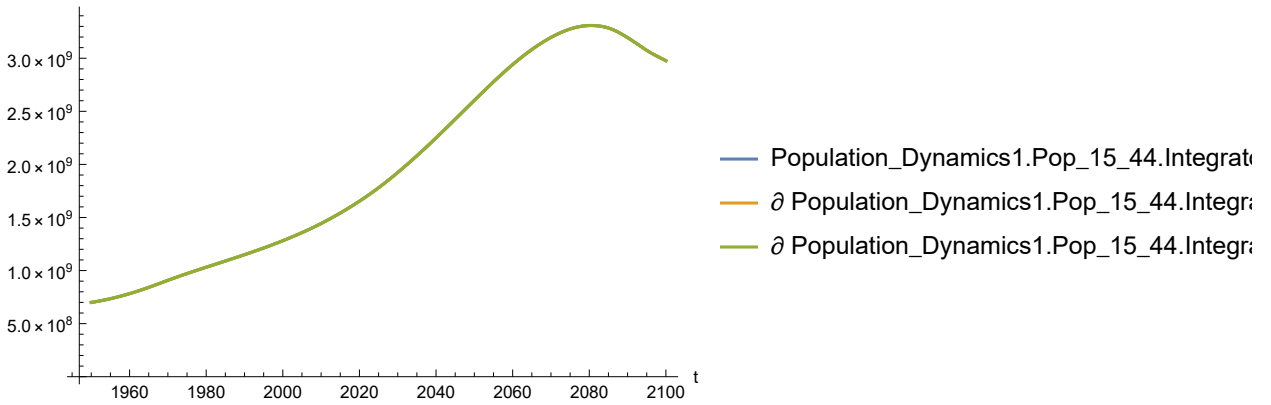
Out[291]=



In[292]:=

```
SystemModelPlot[simsensdata, {"Population_Dynamics1.Pop_15_44.Integrator1.y",
"Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[7]", percentvar}]
```

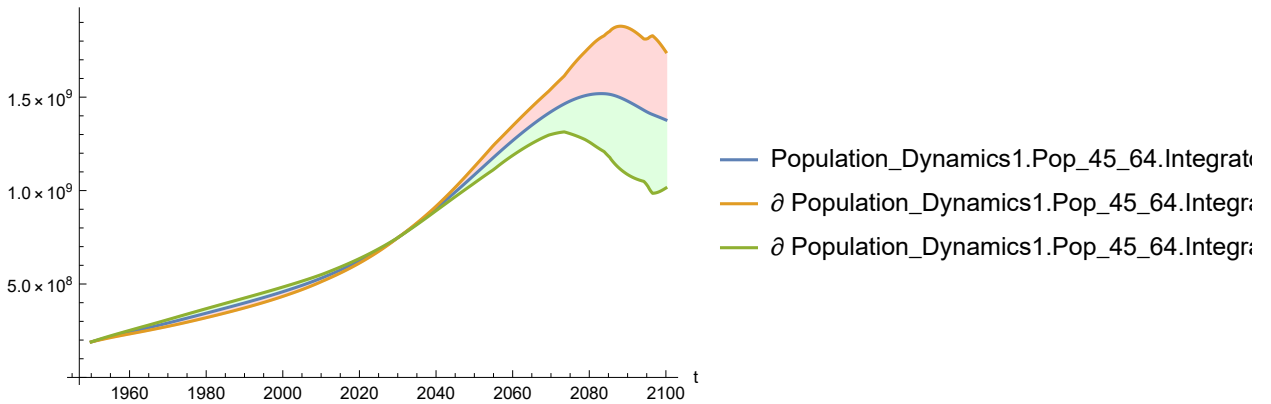
Out[292]=



In[293]:=

```
SystemModelPlot[simsensdata, {"Population_Dynamics1.Pop_45_64.Integrator1.y",
"Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[1]", percentvar}]
```

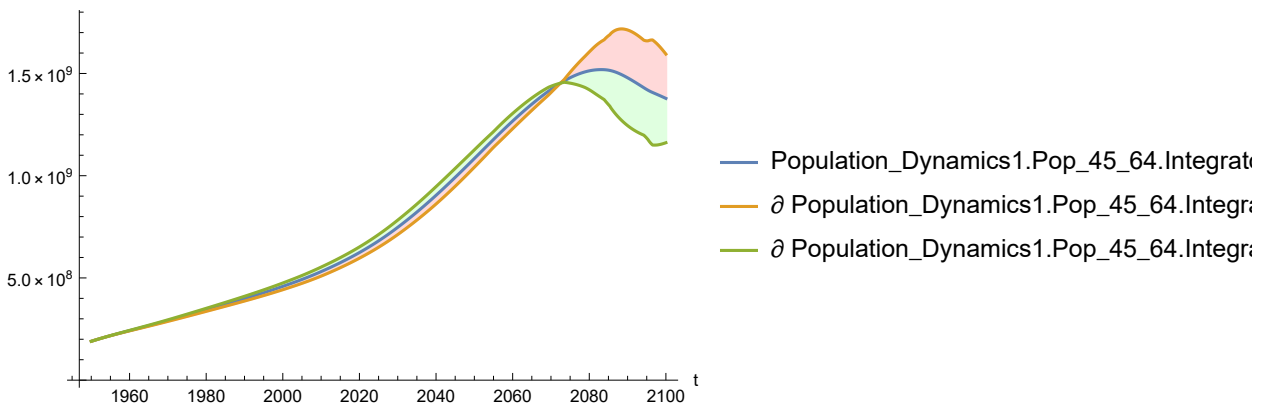
Out[293]=



In[294]:=

```
SystemModelPlot[simsensdata, {"Population_Dynamics1.Pop_45_64.Integrator1.y",
"Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[2]", percentvar}]
```

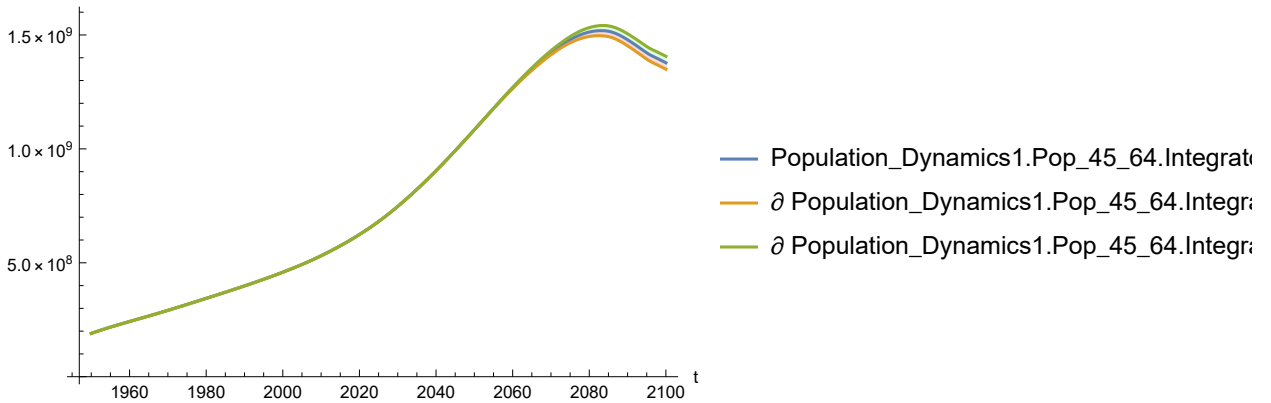
Out[294]=



In[295]:=

```
SystemModelPlot[simsensdata, {"Population_Dynamics1.Pop_45_64.Integrator1.y",
"Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[3]", percentvar}]
```

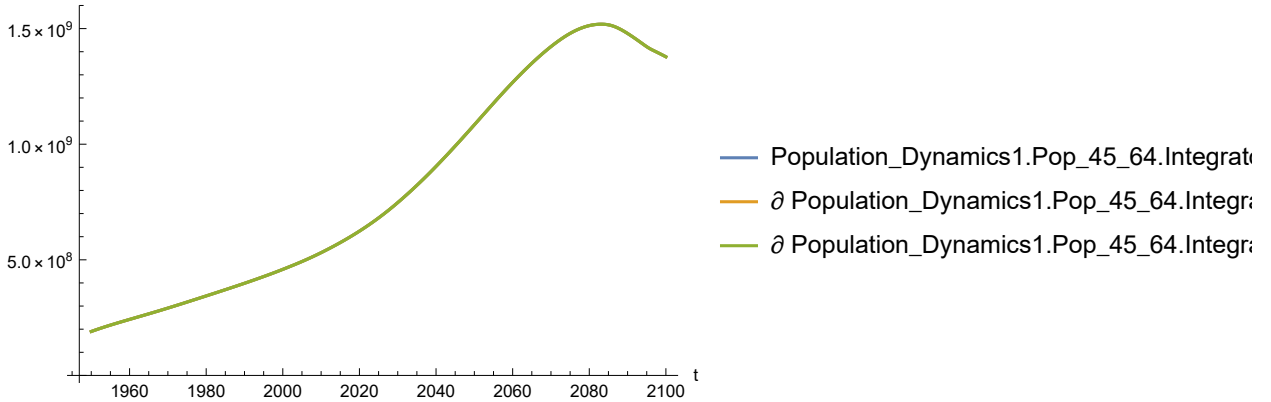
Out[295]=



In[296]:=

```
SystemModelPlot[simsensdata, {"Population_Dynamics1.Pop_45_64.Integrator1.y",
"Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[4]", percentvar}]
```

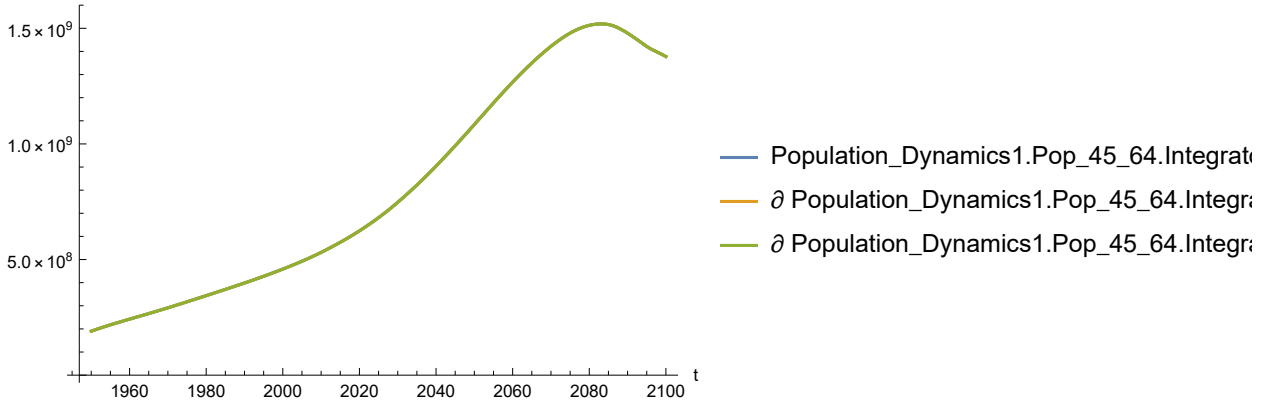
Out[296]=



In[297]:=

```
SystemModelPlot[simsensdata, {"Population_Dynamics1.Pop_45_64.Integrator1.y",
"Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[5]", percentvar}]
```

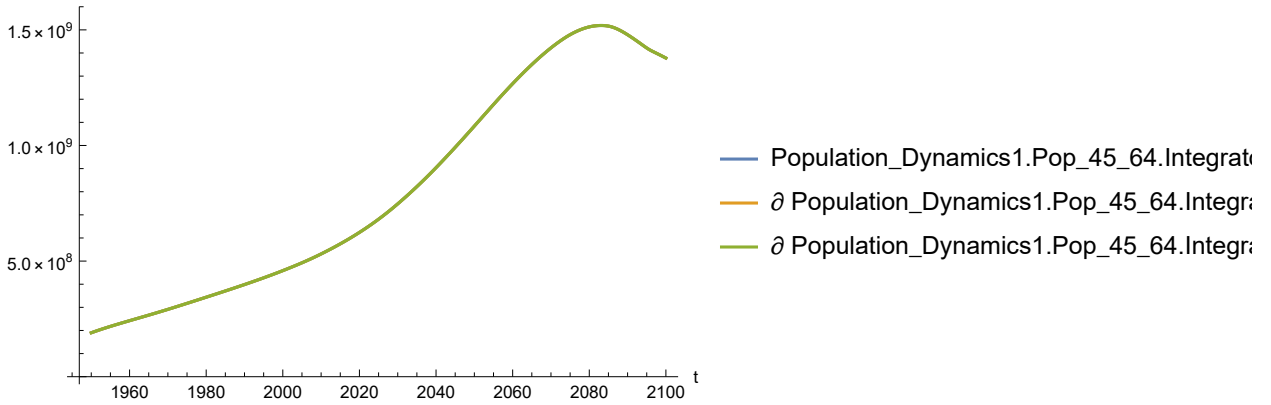
Out[297]=



In[298]:=

```
SystemModelPlot[simsensdata, {"Population_Dynamics1.Pop_45_64.Integrator1.y",
"Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[6]", percentvar}]
```

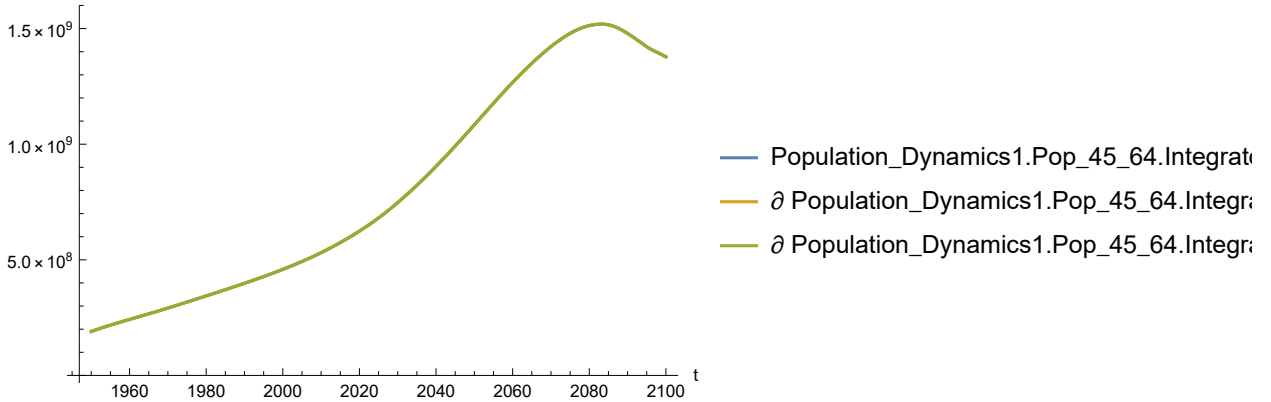
Out[298]=



In[299]:=

```
SystemModelPlot[simsensdata, {"Population_Dynamics1.Pop_45_64.Integrator1.y",
"Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[7]", percentvar}]
```

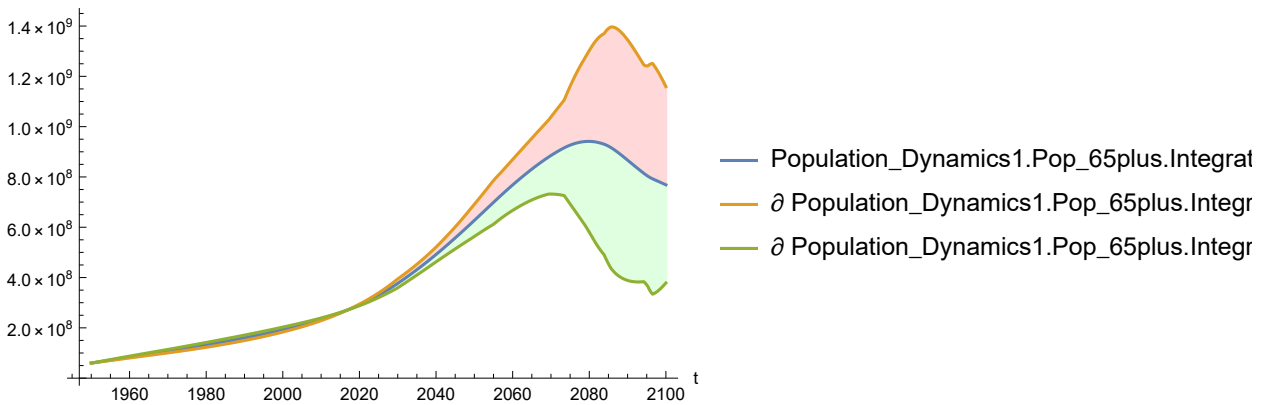
Out[299]=



In[300]:=

```
SystemModelPlot[simsensdata, {"Population_Dynamics1.Pop_65plus.Integrator1.y",
"Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[1]", percentvar}]
```

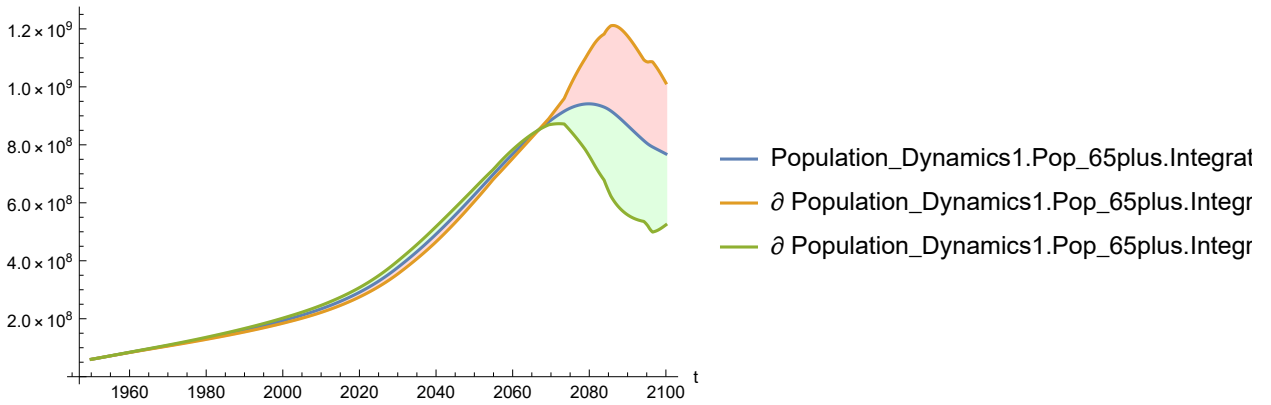
Out[300]=



In[301]:=

```
SystemModelPlot[simsensdata, {"Population_Dynamics1.Pop_65plus.Integrator1.y",
"Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[2]", percentvar}]
```

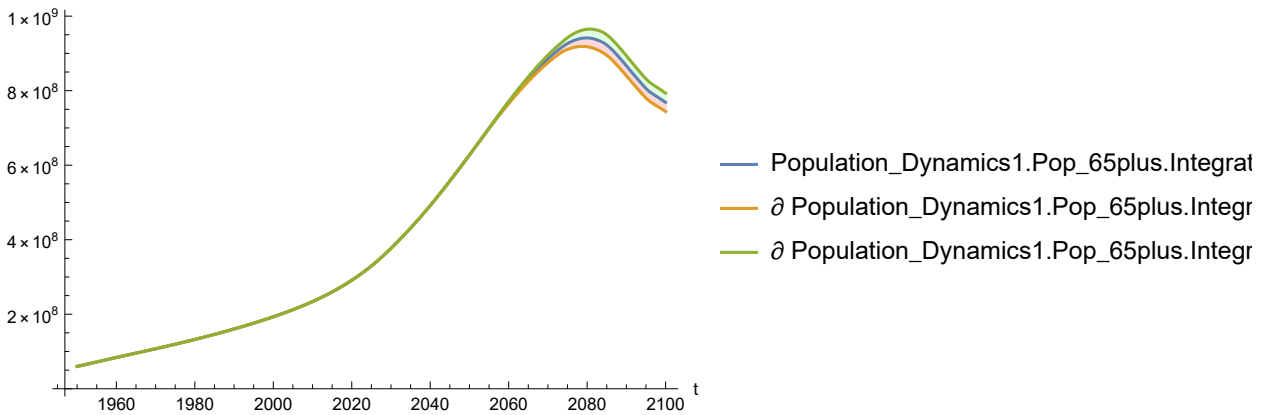
Out[301]=



In[302]:=

```
SystemModelPlot[simsensdata, {"Population_Dynamics1.Pop_65plus.Integrator1.y",
"Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[3]", percentvar}]
```

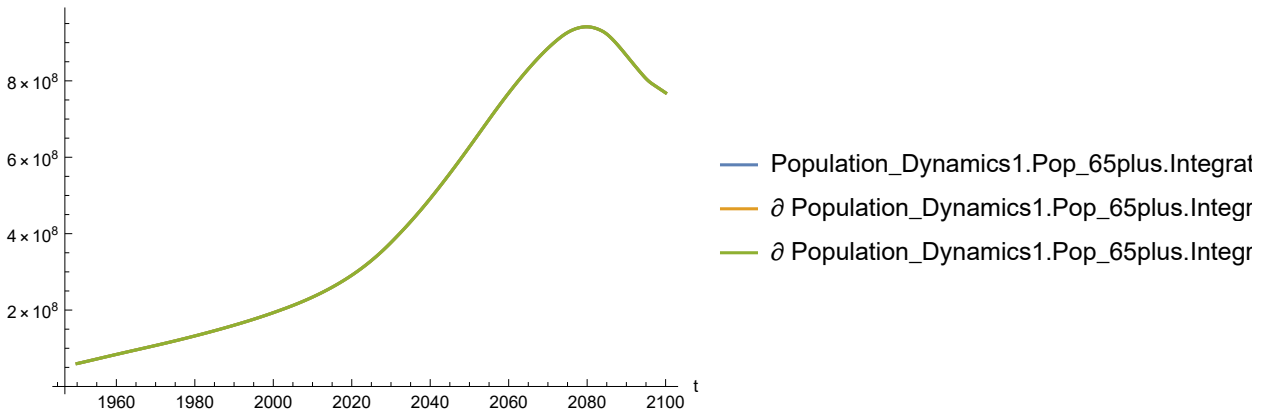
Out[302]=



In[303]:=

```
SystemModelPlot[simsensdata, {"Population_Dynamics1.Pop_65plus.Integrator1.y",
"Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[4]", percentvar}]
```

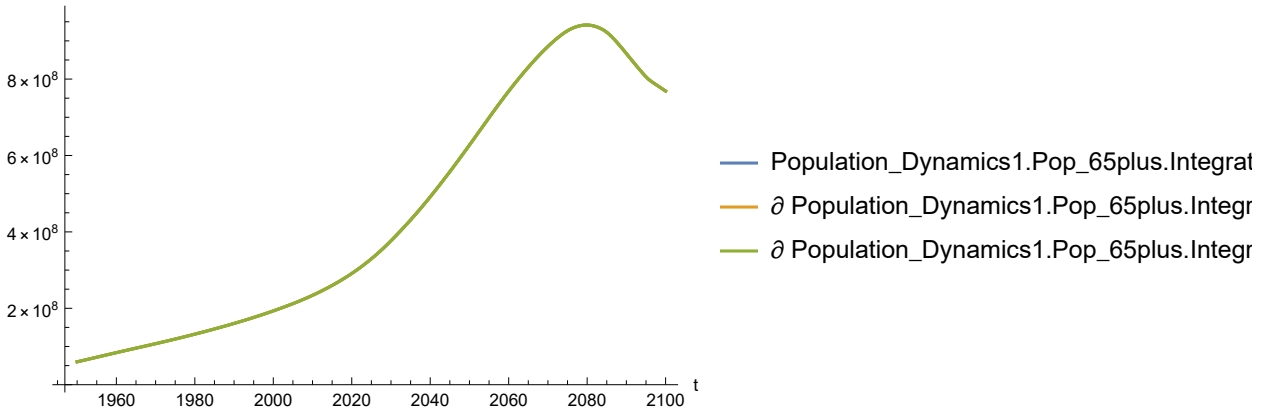
Out[303]=



In[304]:=

```
SystemModelPlot[simsensdata, {"Population_Dynamics1.Pop_65plus.Integrator1.y",
"Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[5]", percentvar}]
```

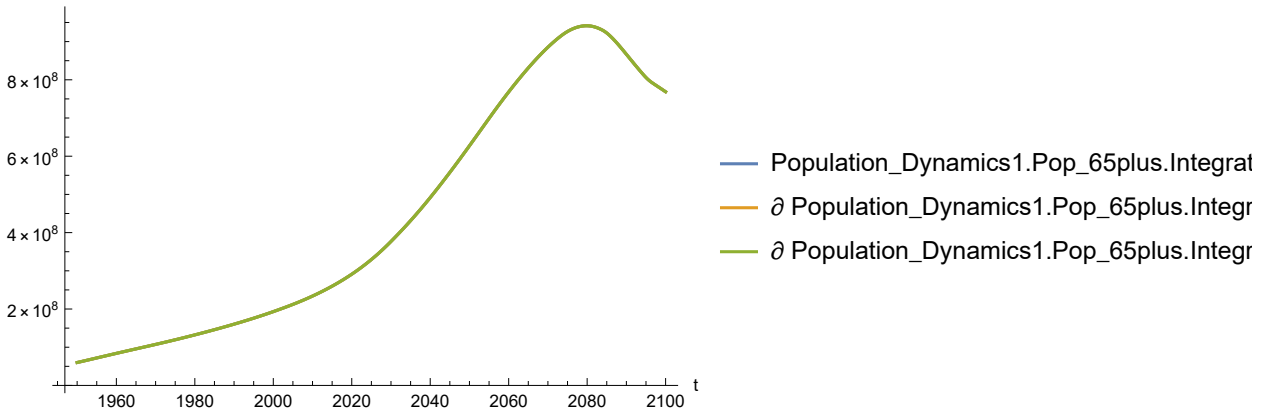
Out[304]=



In[305]:=

```
SystemModelPlot[simsensdata, {"Population_Dynamics1.Pop_65plus.Integrator1.y",
"Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[6]", percentvar}]
```

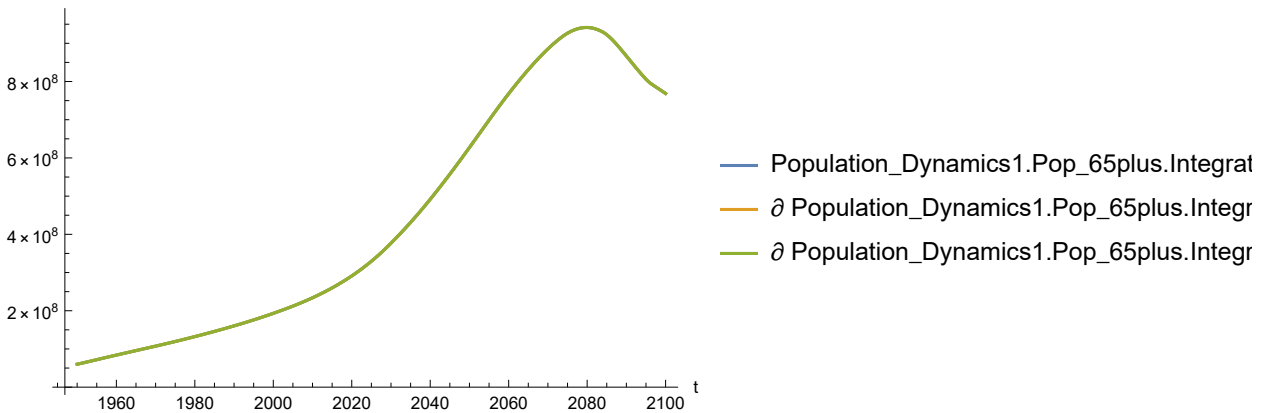
Out[305]=



In[306]:=

```
SystemModelPlot[simsensdata, {"Population_Dynamics1.Pop_65plus.Integrator1.y",
"Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[7]", percentvar}]
```

Out[306]=

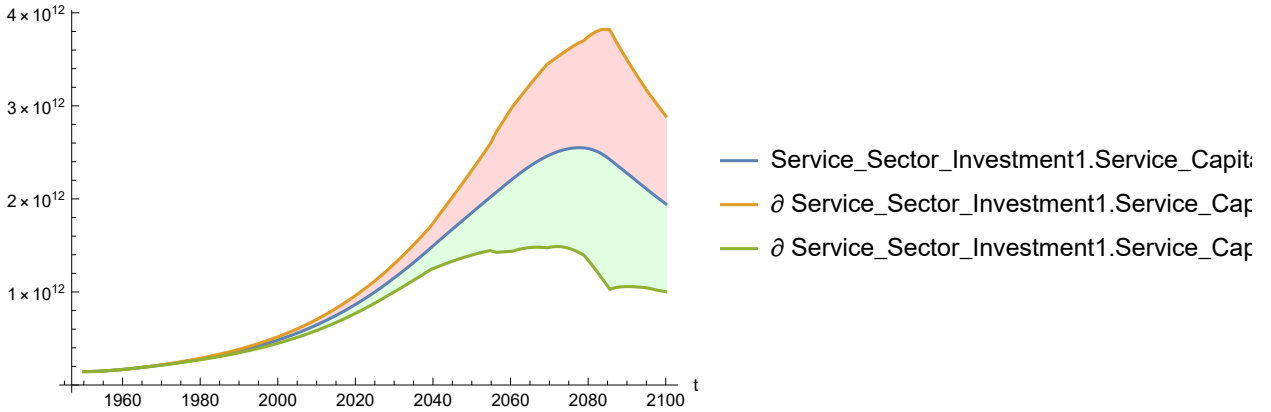


Plot sensitivity of Service_Sector_Investment1.Service_Capital.Integrator1.y to Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals.

In[307]:=

```
SystemModelPlot[simsensdata,
  {"Service_Sector_Investment1.Service_Capital.Integrator1.y",
   "Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[1]", percentvar}]
```

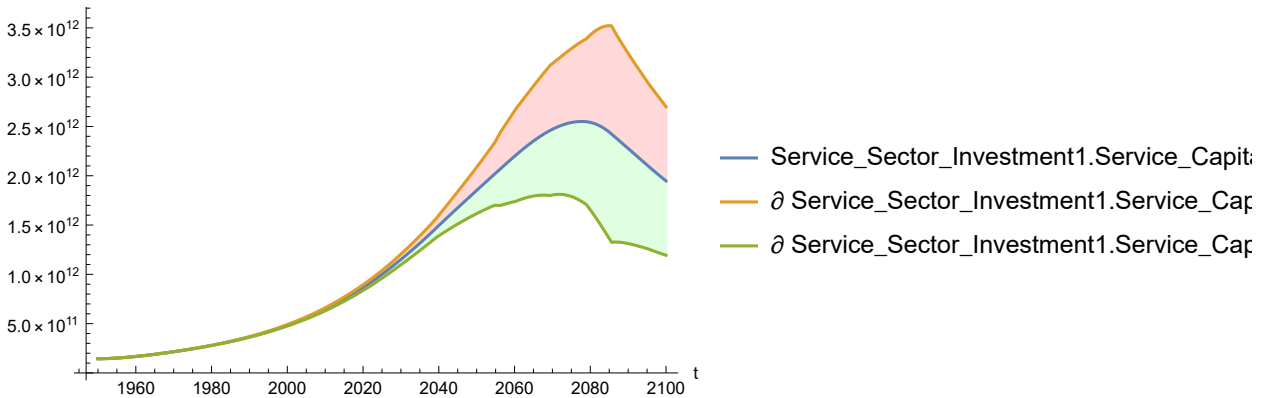
Out[307]=



In[308]:=

```
SystemModelPlot[simsensdata,
  {"Service_Sector_Investment1.Service_Capital.Integrator1.y",
   "Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[2]", percentvar}]
```

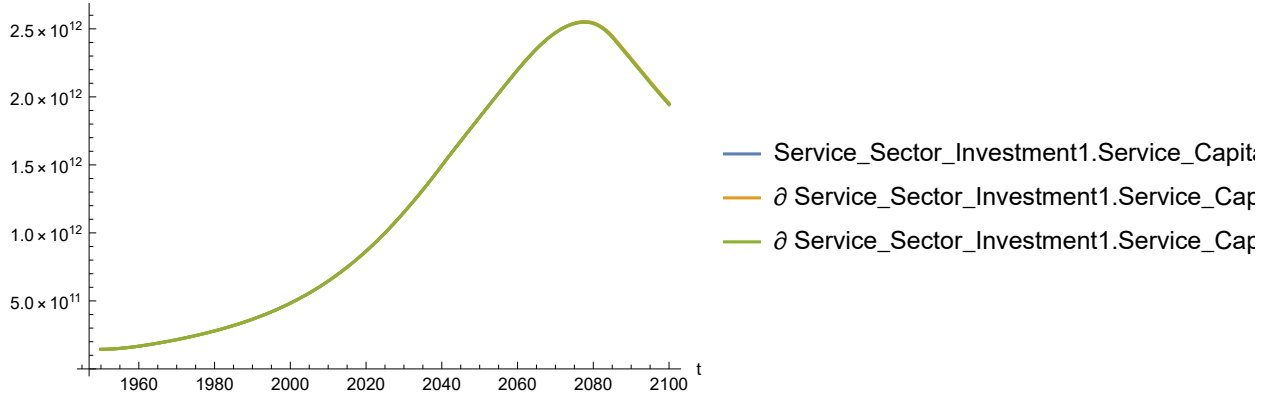
Out[308]=



In[309]:=

```
SystemModelPlot[simsensdata,
  {"Service_Sector_Investment1.Service_Capital.Integrator1.y",
   "Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[3]", percentvar}]
```

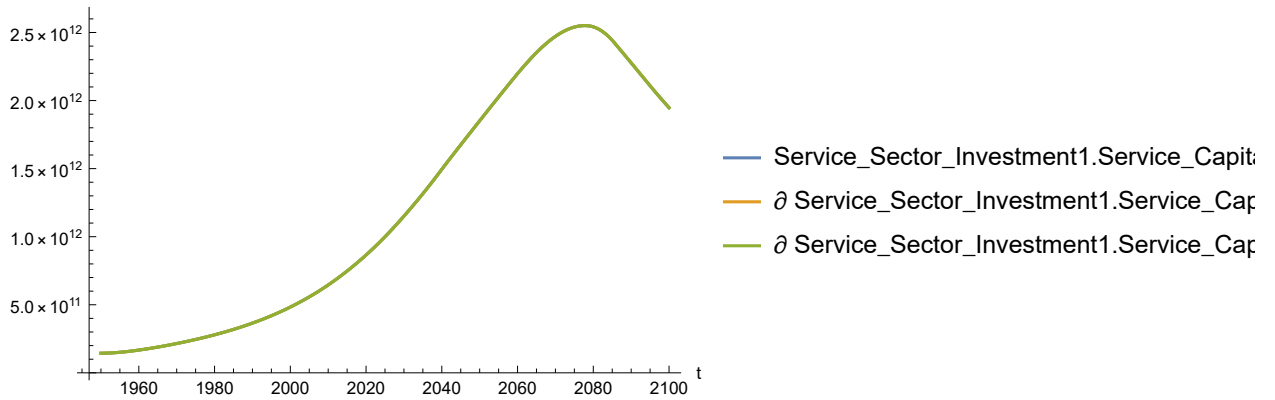
Out[309]=



In[310]:=

```
SystemModelPlot[simsensdata,
  {"Service_Sector_Investment1.Service_Capital.Integrator1.y",
   "Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[4]", percentvar}]
```

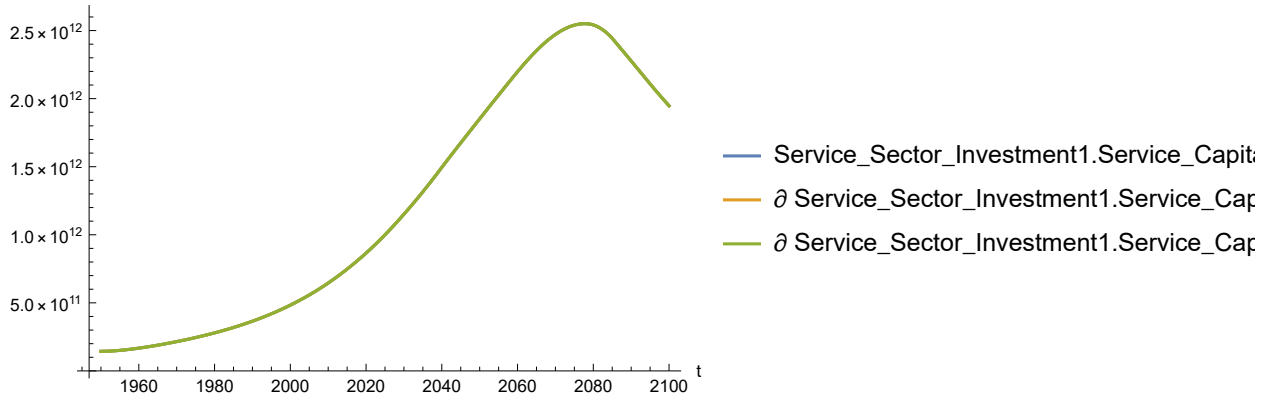
Out[310]=



In[311]:=

```
SystemModelPlot[simsensdata,
  {"Service_Sector_Investment1.Service_Capital.Integrator1.y",
   "Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[5]", percentvar}]
```

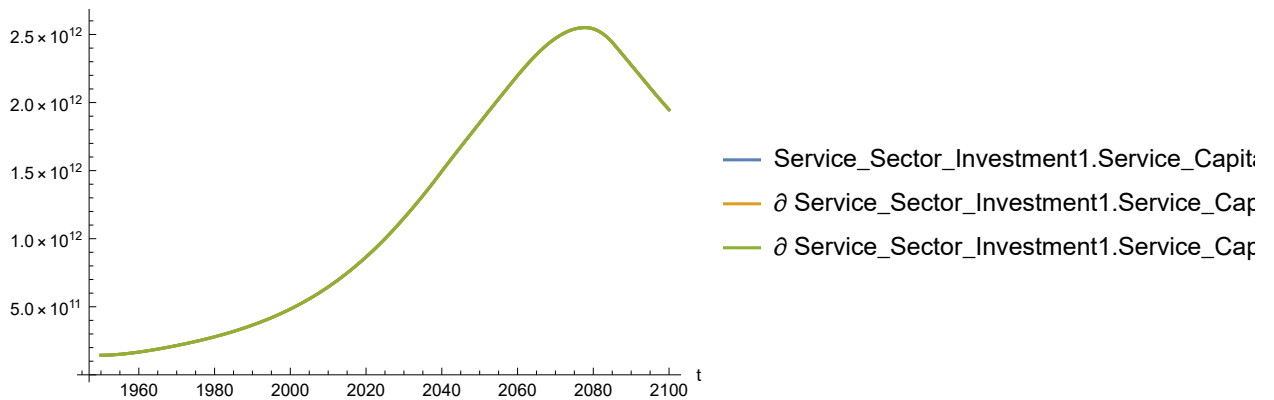
Out[311]=



In[312]:=

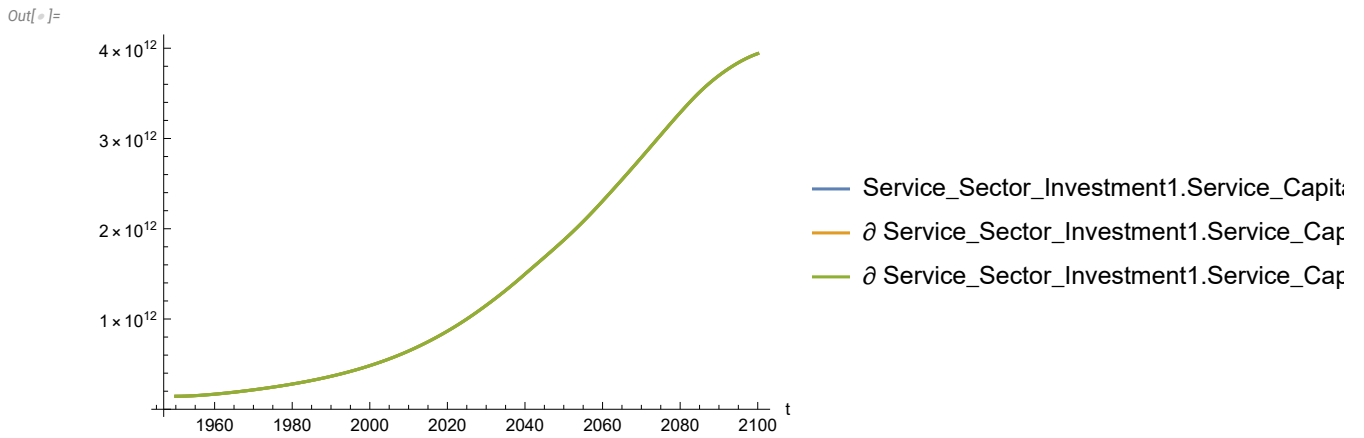
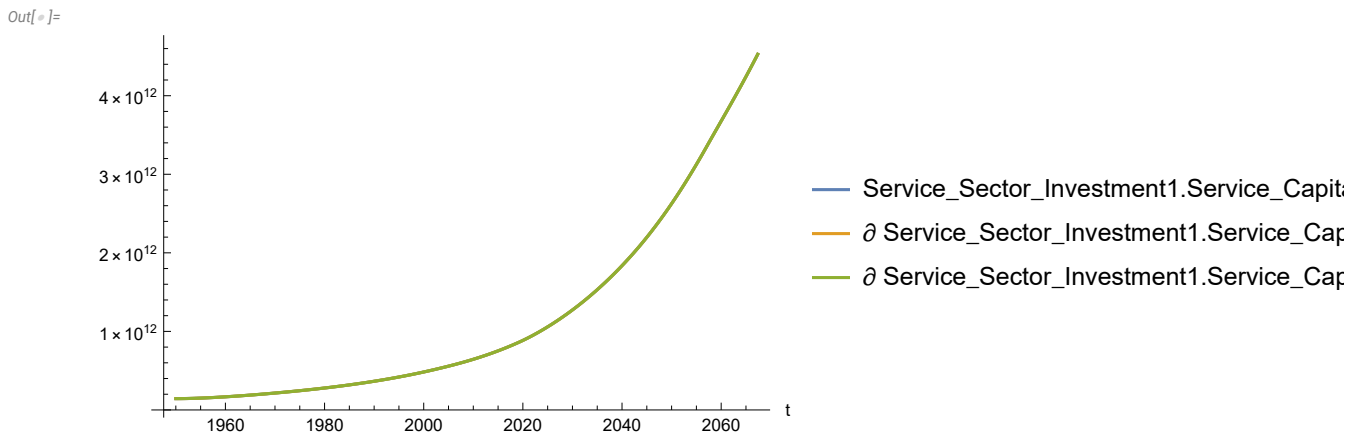
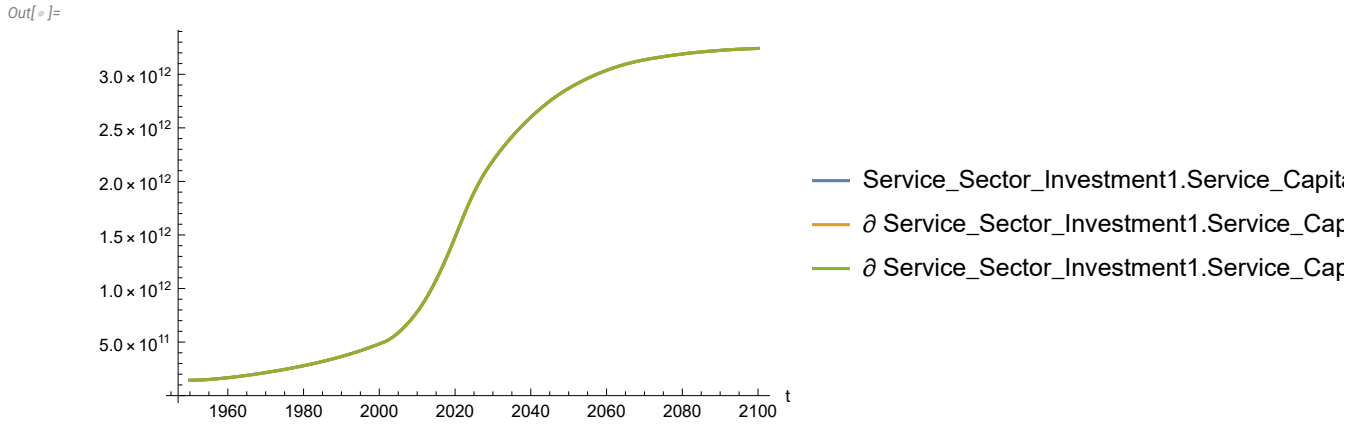
```
SystemModelPlot[simsensdata,
  {"Service_Sector_Investment1.Service_Capital.Integrator1.y",
   "Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[6]", percentvar}]
```

Out[312]=

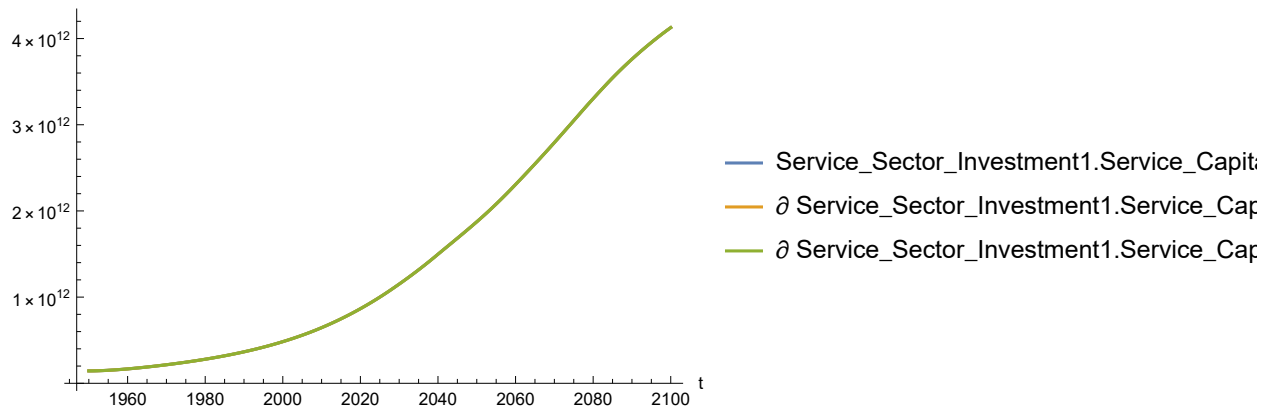


In[313]:=

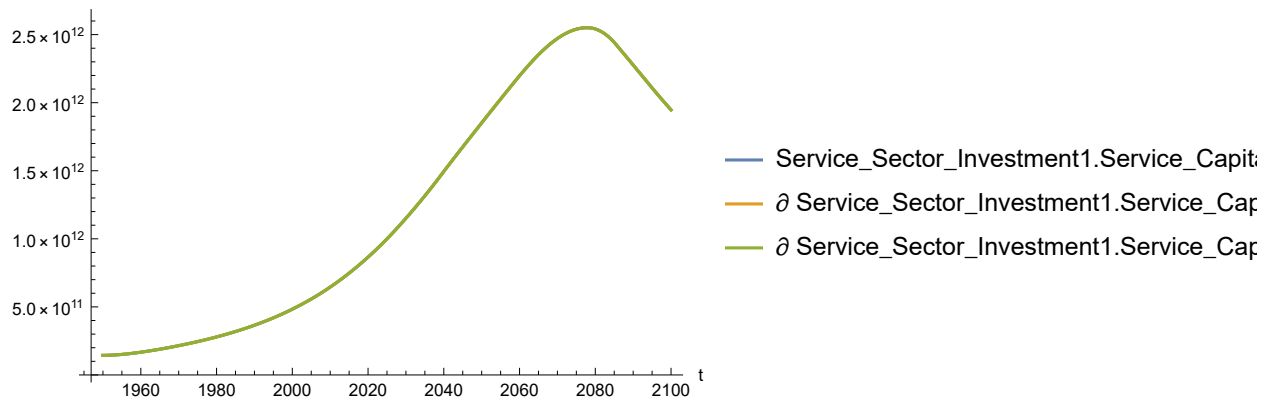
```
SystemModelPlot[simsensdata,
  {"Service_Sector_Investment1.Service_Capital.Integrator1.y",
   "Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[7]", percentvar}]
```



Out[]=



Out[313]=



Appendix 5. Experiment 5. Benchmark Scenario 5. Compute and plot sensitivity of various World3 variables to Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals values.

Last modified: 28 August 2022/1212 US CT.

Author: J. K. Horner
email: jhorner@cybermesa.com

Platform:

Windows 10

Wolfram Mathematica Home Version v13.1, dynamic updating enabled

Wolfram SystemModeler v12.0

Open Modelica v3.2.2

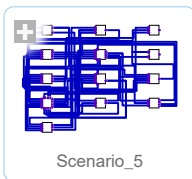
Microsoft Visual C++, version-compatible with the above

Load Benchmark Scenario 5.

In[1]=

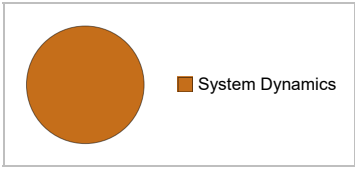
```
mysim = SystemModel["SystemDynamics.WorldDynamics.World3.Scenario_5"]
```

Out[1]=



Show high-level properties of the scenario.

```
In[2]:= mysummary = mysim["Summary"]
```

	Model	SystemDynamics.WorldDynamics.World3.Scenario_5
	Description	More accessible non-recoverable natural resources, pollution control, land yield enhancement, and erosion control
	Simulation Interval	True
	Plot	0
	Cells	106
	Background	True
Out[2]=	Simulation Start	265
	Simulation End	265
	Diagram	

Set percent variation. 0.1 = nominal +/- 10%.

```
In[3]:= percentvar = 0.1
```

```
Out[3]= 0.1
```

Show the default **Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals**.

```
In[4]:= SystemModel[mysim] [
  {"ParameterValues", "Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[1]"}]
```

```
Out[4]= {Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[1] → 1}
```

```
In[5]:= SystemModel[mysim] [
  {"ParameterValues", "Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[2]"}]
```

```
Out[5]= {Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[2] → 1.5}
```

```
In[6]:= SystemModel[mysim] [
  {"ParameterValues", "Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[3]"}]
```

```
Out[6]= {Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[3] → 1.9}
```

```
In[7]:= SystemModel[mysim] [
  {"ParameterValues", "Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[4]"}]
```

```
Out[7]= {Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[4] → 2}
```

```

In[8]:= SystemModel[mysim] [
  {"ParameterValues", "Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[5]"}]
Out[8]= {Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[5] → 2}

In[9]:= SystemModel[mysim] [
  {"ParameterValues", "Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[6]"}]
Out[9]= {Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[6] → 2}

In[10]:= SystemModel[mysim] [
  {"ParameterValues", "Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[7]"}]
Out[10]= {Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[7] → 2}


```

Retrieve all variables that **SystemModelSimulateSensitivity** says depend on **Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals**. Set scenario start at 1950 because various **SystemModel** functions have problems with a step function at scenario time 1940. (This is a World3-specific quirk.)

```


In[11]:= simsensdata = SystemModelSimulateSensitivity[mysim,
  {1950, 2100}, {"Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[1]",
  "Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[2]",
  "Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[3]",
  "Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[4]",
  "Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[5]",
  "Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[6]",
  "Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[7]"}]

```

 **SystemModelSimulateSensitivity**: At time 2002. s: An event occurred while performing sensitivity analysis. This may produce incorrect results depending on your model. Further similar warnings will not be displayed.

Out[11]=

```

SystemModelSimulationData [
   Model: Scenario_5
  Time: 1.95 × 103 to 2.10 × 103
]

```

Show the names of the World3 variables in **simsensdata** that **SystemModelSimulateSensitivity** recognizes.

```

In[12]:= simsensdata["SensitivityNames"]
Out[12]=
{ {Arable_Land_Dynamics1.Arable_Land.Integrator1.y,
  Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[1] },
  {Arable_Land_Dynamics1.Arable_Land.Integrator1.y,
  Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[2] },
  {Arable_Land_Dynamics1.Arable_Land.Integrator1.y,
  Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[3] },
  {Arable_Land_Dynamics1.Arable_Land.Integrator1.y,
  Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[4] },
  {Arable_Land_Dynamics1.Arable_Land.Integrator1.y,
  Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[5] },

```

```

{Arable_Land_Dynamics1.Arable_Land.Integrator1.y,
 Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[6]},
{Arable_Land_Dynamics1.Arable_Land.Integrator1.y,
 Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[7]},
{Arable_Land_Dynamics1.Pot_Arable_Land.Integrator1.y,
 Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[1]},
{Arable_Land_Dynamics1.Pot_Arable_Land.Integrator1.y,
 Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[2]},
{Arable_Land_Dynamics1.Pot_Arable_Land.Integrator1.y,
 Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[3]},
{Arable_Land_Dynamics1.Pot_Arable_Land.Integrator1.y,
 Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[4]},
{Arable_Land_Dynamics1.Pot_Arable_Land.Integrator1.y,
 Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[5]},
{Arable_Land_Dynamics1.Pot_Arable_Land.Integrator1.y,
 Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[6]},
{Arable_Land_Dynamics1.Pot_Arable_Land.Integrator1.y,
 Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[7]},
{Arable_Land_Dynamics1.Urban_Ind_Land.Integrator1.y,
 Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[1]},
{Arable_Land_Dynamics1.Urban_Ind_Land.Integrator1.y,
 Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[2]},
{Arable_Land_Dynamics1.Urban_Ind_Land.Integrator1.y,
 Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[3]},
{Arable_Land_Dynamics1.Urban_Ind_Land.Integrator1.y,
 Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[4]},
{Arable_Land_Dynamics1.Urban_Ind_Land.Integrator1.y,
 Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[5]},
{Arable_Land_Dynamics1.Urban_Ind_Land.Integrator1.y,
 Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[6]},
{Arable_Land_Dynamics1.Urban_Ind_Land.Integrator1.y,
 Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[7]},
{Food_Production1.Agr_Inp.Integrator1.y,
 Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[1]},
{Food_Production1.Agr_Inp.Integrator1.y,
 Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[2]},
{Food_Production1.Agr_Inp.Integrator1.y,
 Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[3]},
{Food_Production1.Agr_Inp.Integrator1.y,
 Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[4]},
{Food_Production1.Agr_Inp.Integrator1.y,
 Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[5]},
{Food_Production1.Agr_Inp.Integrator1.y,
 Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[6]},
{Food_Production1.Agr_Inp.Integrator1.y,
 Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[7]},
{Food_Production1.P_Land_Yield_Fact_2.Smooth1.Integrator1.y,

```

```

Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[1]},
{Food_Production1.P_Land_Yield_Fact_2.Smooth1.Integrator1.y,
Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[2]},
{Food_Production1.P_Land_Yield_Fact_2.Smooth1.Integrator1.y,
Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[3]},
{Food_Production1.P_Land_Yield_Fact_2.Smooth1.Integrator1.y,
Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[4]},
{Food_Production1.P_Land_Yield_Fact_2.Smooth1.Integrator1.y,
Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[5]},
{Food_Production1.P_Land_Yield_Fact_2.Smooth1.Integrator1.y,
Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[6]},
{Food_Production1.P_Land_Yield_Fact_2.Smooth1.Integrator1.y,
Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[7]},
{Food_Production1.P_Land_Yield_Fact_2.Smooth2.Integrator1.y,
Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[1]},
{Food_Production1.P_Land_Yield_Fact_2.Smooth2.Integrator1.y,
Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[2]},
{Food_Production1.P_Land_Yield_Fact_2.Smooth2.Integrator1.y,
Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[3]},
{Food_Production1.P_Land_Yield_Fact_2.Smooth2.Integrator1.y,
Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[4]},
{Food_Production1.P_Land_Yield_Fact_2.Smooth2.Integrator1.y,
Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[5]},
{Food_Production1.P_Land_Yield_Fact_2.Smooth2.Integrator1.y,
Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[6]},
{Food_Production1.P_Land_Yield_Fact_2.Smooth2.Integrator1.y,
Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[7]},
{Food_Production1.P_Land_Yield_Fact_2.Smooth3.Integrator1.y,
Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[1]},
{Food_Production1.P_Land_Yield_Fact_2.Smooth3.Integrator1.y,
Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[2]},
{Food_Production1.P_Land_Yield_Fact_2.Smooth3.Integrator1.y,
Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[3]},
{Food_Production1.P_Land_Yield_Fact_2.Smooth3.Integrator1.y,
Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[4]},
{Food_Production1.P_Land_Yield_Fact_2.Smooth3.Integrator1.y,
Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[5]},
{Food_Production1.P_Land_Yield_Fact_2.Smooth3.Integrator1.y,
Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[6]},
{Food_Production1.P_Land_Yield_Fact_2.Smooth3.Integrator1.y,
Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[7]},
{Food_Production1.Perc_Food_Ratio.Integrator1.y,
Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[1]},
{Food_Production1.Perc_Food_Ratio.Integrator1.y,
Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[2]},
{Food_Production1.Perc_Food_Ratio.Integrator1.y,
Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[3]},

```



```

{Food_Production1.Perc_Food_Ratio.Integrator1.y,
 Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[4]},
{Food_Production1.Perc_Food_Ratio.Integrator1.y,
 Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[5]},
{Food_Production1.Perc_Food_Ratio.Integrator1.y,
 Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[6]},
{Food_Production1.Perc_Food_Ratio.Integrator1.y,
 Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[7]},
{Human_Fertility1.Avg_Ind_Out_PC.Smooth_of_Input.Integrator1.y,
 Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[1]},
{Human_Fertility1.Avg_Ind_Out_PC.Smooth_of_Input.Integrator1.y,
 Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[2]},
{Human_Fertility1.Avg_Ind_Out_PC.Smooth_of_Input.Integrator1.y,
 Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[3]},
{Human_Fertility1.Avg_Ind_Out_PC.Smooth_of_Input.Integrator1.y,
 Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[4]},
{Human_Fertility1.Avg_Ind_Out_PC.Smooth_of_Input.Integrator1.y,
 Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[5]},
{Human_Fertility1.Avg_Ind_Out_PC.Smooth_of_Input.Integrator1.y,
 Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[6]},
{Human_Fertility1.Avg_Ind_Out_PC.Smooth_of_Input.Integrator1.y,
 Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[7]},
{Human_Fertility1.Del_Ind_Out_PC.Smooth1.Integrator1.y,
 Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[1]},
{Human_Fertility1.Del_Ind_Out_PC.Smooth1.Integrator1.y,
 Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[2]},
{Human_Fertility1.Del_Ind_Out_PC.Smooth1.Integrator1.y,
 Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[3]},
{Human_Fertility1.Del_Ind_Out_PC.Smooth1.Integrator1.y,
 Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[4]},
{Human_Fertility1.Del_Ind_Out_PC.Smooth1.Integrator1.y,
 Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[5]},
{Human_Fertility1.Del_Ind_Out_PC.Smooth1.Integrator1.y,
 Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[6]},
{Human_Fertility1.Del_Ind_Out_PC.Smooth1.Integrator1.y,
 Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[7]},
{Human_Fertility1.Del_Ind_Out_PC.Smooth2.Integrator1.y,
 Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[1]},
{Human_Fertility1.Del_Ind_Out_PC.Smooth2.Integrator1.y,
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 Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[6]},
{Pollution_Dynamics1.PPoll_Appear_Rate.Smooth3.Integrator1.y,

```

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Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[7]},
{Pollution_Dynamics1.PPoll_Tech_PTD.Integrator1.y,
Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[1]},
{Pollution_Dynamics1.PPoll_Tech_PTD.Integrator1.y,
Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[2]},
{Pollution_Dynamics1.PPoll_Tech_PTD.Integrator1.y,
Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[3]},
{Pollution_Dynamics1.PPoll_Tech_PTD.Integrator1.y,
Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[4]},
{Pollution_Dynamics1.PPoll_Tech_PTD.Integrator1.y,
Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[5]},
{Pollution_Dynamics1.PPoll_Tech_PTD.Integrator1.y,
Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[6]},
{Pollution_Dynamics1.PPoll_Tech_PTD.Integrator1.y,
Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[7]},
{Pollution_Dynamics1.P_PPoll_Gen_Fact_2.Smooth1.Integrator1.y,
Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[1]},
{Pollution_Dynamics1.P_PPoll_Gen_Fact_2.Smooth1.Integrator1.y,
Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[2]},
{Pollution_Dynamics1.P_PPoll_Gen_Fact_2.Smooth1.Integrator1.y,
Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[3]},
{Pollution_Dynamics1.P_PPoll_Gen_Fact_2.Smooth1.Integrator1.y,
Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[4]},
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Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[5]},
{Pollution_Dynamics1.P_PPoll_Gen_Fact_2.Smooth1.Integrator1.y,
Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[6]},
{Pollution_Dynamics1.P_PPoll_Gen_Fact_2.Smooth1.Integrator1.y,
Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[7]},
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Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[1]},
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Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[2]},
{Pollution_Dynamics1.P_PPoll_Gen_Fact_2.Smooth2.Integrator1.y,
Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[3]},
{Pollution_Dynamics1.P_PPoll_Gen_Fact_2.Smooth2.Integrator1.y,
Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[4]},
{Pollution_Dynamics1.P_PPoll_Gen_Fact_2.Smooth2.Integrator1.y,
Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[5]},
{Pollution_Dynamics1.P_PPoll_Gen_Fact_2.Smooth2.Integrator1.y,
Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[6]},
{Pollution_Dynamics1.P_PPoll_Gen_Fact_2.Smooth2.Integrator1.y,
Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[7]},
{Pollution_Dynamics1.P_PPoll_Gen_Fact_2.Smooth3.Integrator1.y,
Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[1]},
{Pollution_Dynamics1.P_PPoll_Gen_Fact_2.Smooth3.Integrator1.y,
Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[2]},

```



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{Pollution_Dynamics1.P_PPoll_Gen_Fact_2.Smooth3.Integrator1.y,
  Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[3]},
{Pollution_Dynamics1.P_PPoll_Gen_Fact_2.Smooth3.Integrator1.y,
  Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[4]},
{Pollution_Dynamics1.P_PPoll_Gen_Fact_2.Smooth3.Integrator1.y,
  Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[5]},
{Pollution_Dynamics1.P_PPoll_Gen_Fact_2.Smooth3.Integrator1.y,
  Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[6]},
{Pollution_Dynamics1.P_PPoll_Gen_Fact_2.Smooth3.Integrator1.y,
  Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[7]},
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  Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[1]},
{Pollution_Dynamics1.Pers_Pollution.Integrator1.y,
  Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[2]},
{Pollution_Dynamics1.Pers_Pollution.Integrator1.y,
  Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[3]},
{Pollution_Dynamics1.Pers_Pollution.Integrator1.y,
  Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[4]},
{Pollution_Dynamics1.Pers_Pollution.Integrator1.y,
  Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[5]},
{Pollution_Dynamics1.Pers_Pollution.Integrator1.y,
  Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[6]},
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  Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[7]},
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  Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[1]},
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  Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[2]},
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  Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[3]},
{Population_Dynamics1.Pop_0_14.Integrator1.y,
  Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[4]},
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  Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[5]},
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  Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[6]},
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  Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[7]},
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  Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[1]},
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  Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[2]},
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  Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[3]},
{Population_Dynamics1.Pop_15_44.Integrator1.y,
  Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[4]},
{Population_Dynamics1.Pop_15_44.Integrator1.y,

```

```

Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[5]},
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Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[4]},
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Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[6]},
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Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[7]},
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{Population_Dynamics1.Pop_65plus.Integrator1.y,
Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[2]},
{Population_Dynamics1.Pop_65plus.Integrator1.y,
Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[3]},
{Population_Dynamics1.Pop_65plus.Integrator1.y,
Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[4]},
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Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[5]},
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Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[6]},
{Population_Dynamics1.Pop_65plus.Integrator1.y,
Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[7]},
{Service_Sector_Investment1.Service_Capital.Integrator1.y,
Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[1]},
{Service_Sector_Investment1.Service_Capital.Integrator1.y,
Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[2]},
{Service_Sector_Investment1.Service_Capital.Integrator1.y,
Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[3]},
{Service_Sector_Investment1.Service_Capital.Integrator1.y,
Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[4]},
{Service_Sector_Investment1.Service_Capital.Integrator1.y,
Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[5]},
{Service_Sector_Investment1.Service_Capital.Integrator1.y,
Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[6]},
{Service_Sector_Investment1.Service_Capital.Integrator1.y,
Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[7]}

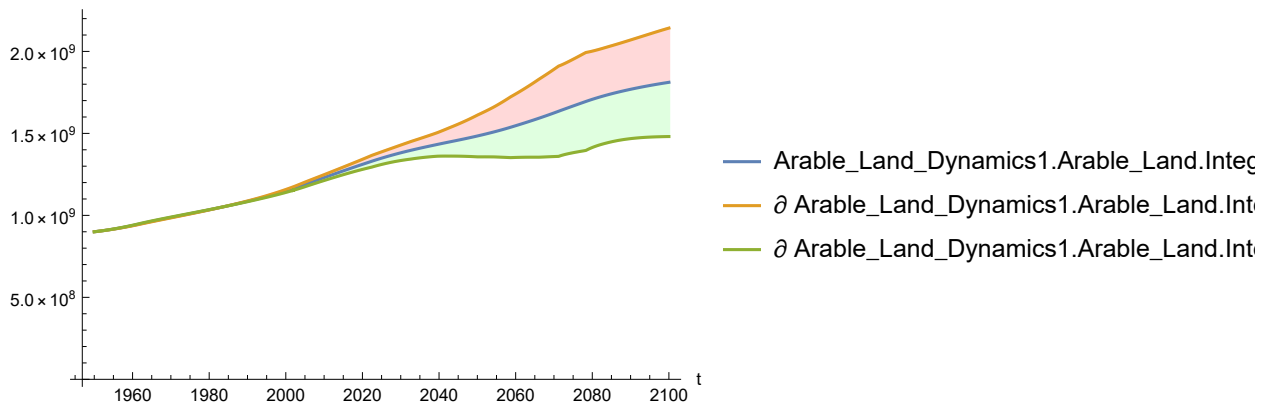
```

Programming note: in Mathematica, the following list of **SystemModelPlot** instructions could be replaced by a loop or iteration construct that cycles over **simsensdata**. The resulting source code would be elegant, but upon execution it turns out to have dynamic updating issues that the Platform described above does not handle well.

Plot the sensitivity of `Arable_Land_Dynamics1.Arable_Land.Integrator1.y` to `Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals`.

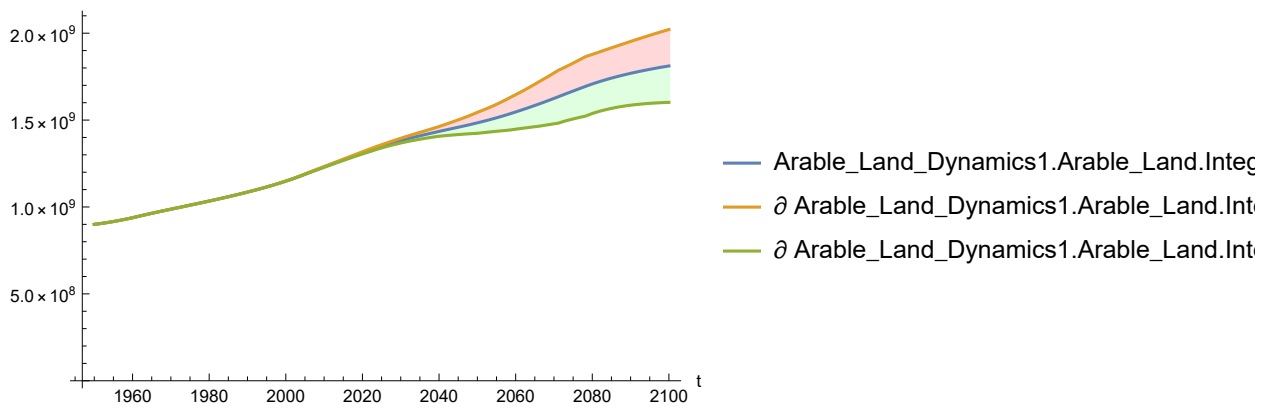
```
In[13]:= SystemModelPlot[simsensdata, {"Arable_Land_Dynamics1.Arable_Land.Integrator1.y",
  "Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[1]", percentvar}]
```

Out[13]=



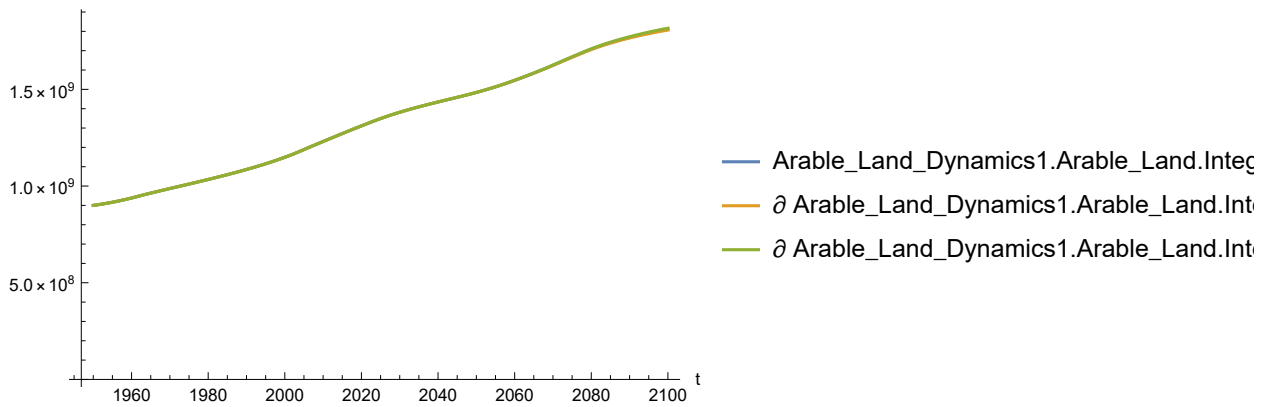
```
In[14]:= SystemModelPlot[simsensdata, {"Arable_Land_Dynamics1.Arable_Land.Integrator1.y",
  "Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[2]", percentvar}]
```

Out[14]=



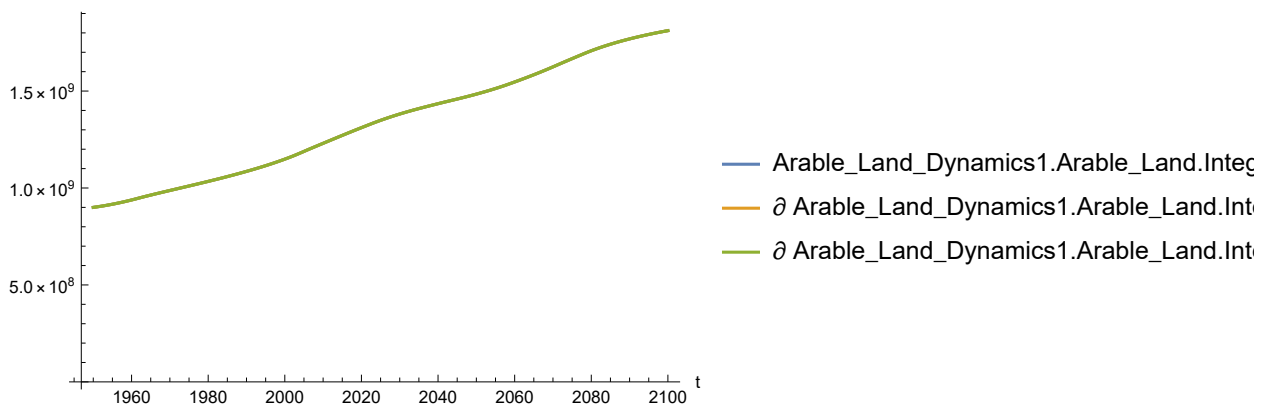
```
In[15]:= SystemModelPlot[simsensdata, {"Arable_Land_Dynamics1.Arable_Land.Integrator1.y",
"Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[3]", percentvar}]
```

Out[15]=



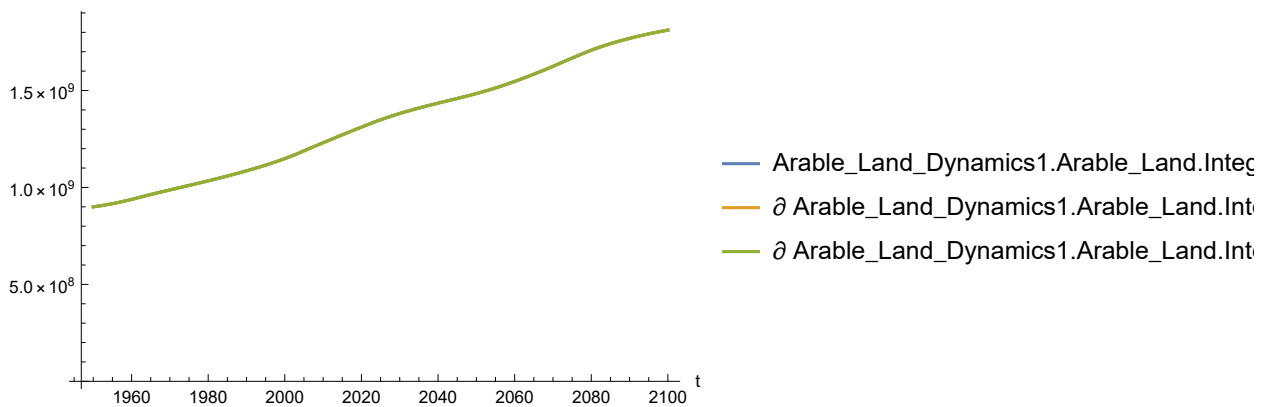
```
In[16]:= SystemModelPlot[simsensdata, {"Arable_Land_Dynamics1.Arable_Land.Integrator1.y",
"Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[4]", percentvar}]
```

Out[16]=



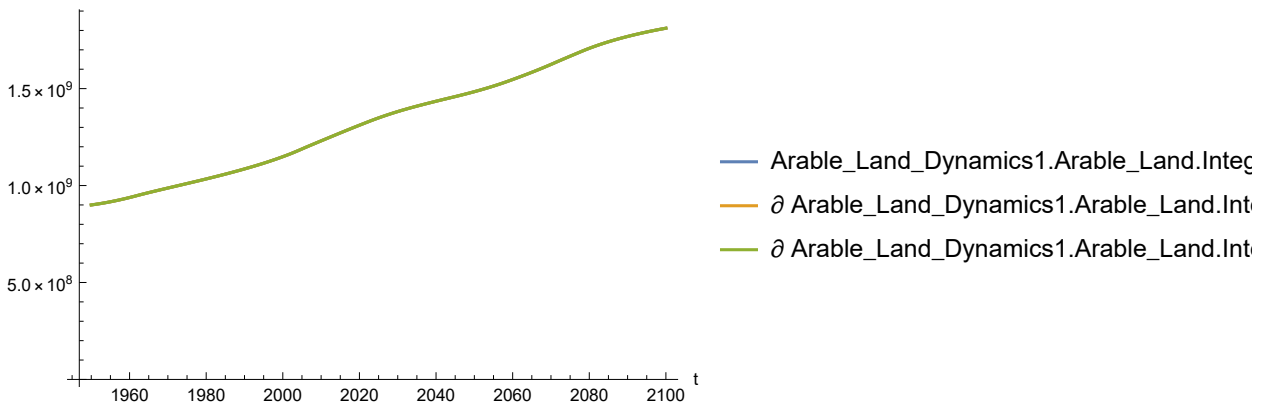
```
In[17]:= SystemModelPlot[simsensdata, {"Arable_Land_Dynamics1.Arable_Land.Integrator1.y",
"Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[5]", percentvar}]
```

Out[17]=



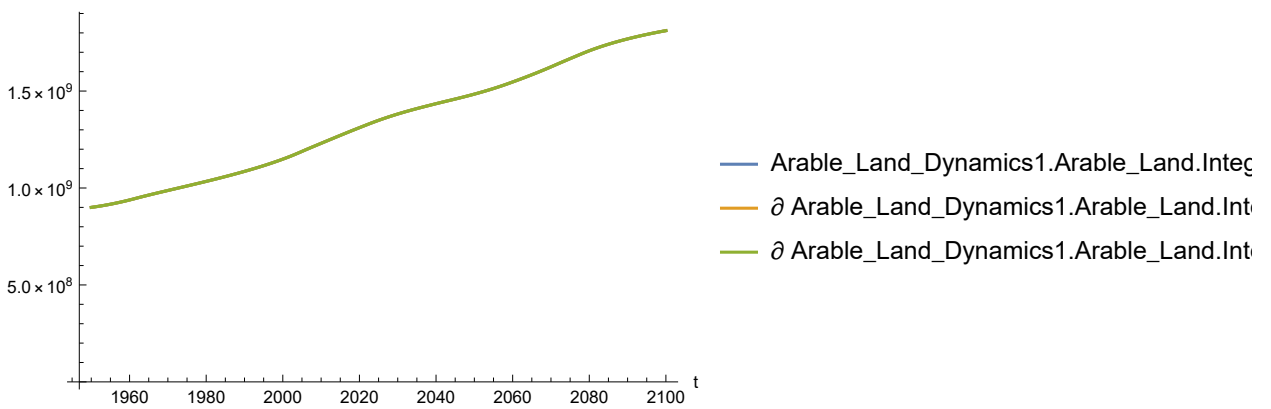
```
In[18]:= SystemModelPlot[simsensdata, {"Arable_Land_Dynamics1.Arable_Land.Integrator1.y",
"Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[6]", percentvar}]
```

Out[18]=



```
In[19]:= SystemModelPlot[simsensdata, {"Arable_Land_Dynamics1.Arable_Land.Integrator1.y",
"Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[7]", percentvar}]
```

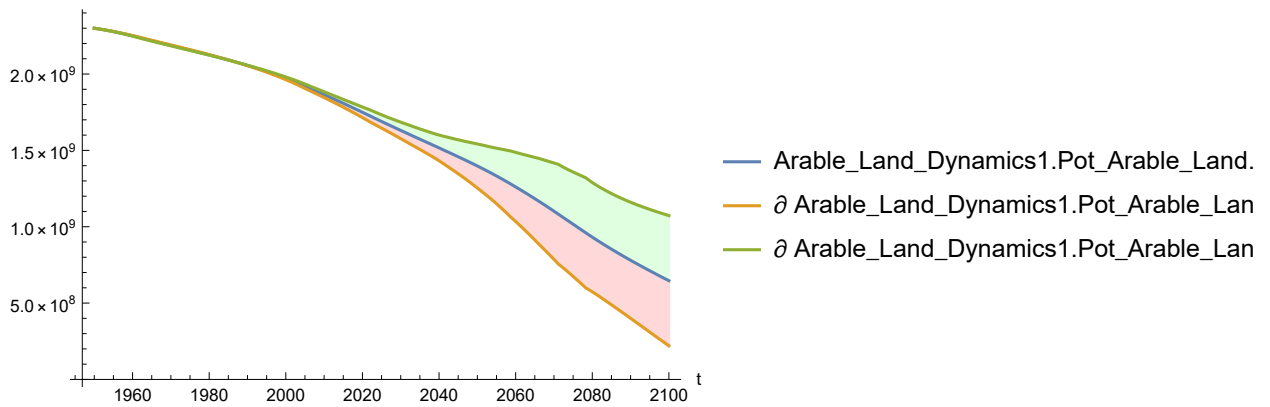
Out[19]=



Plot the sensitivity of `Arable_Land_Dynamics1.Pot_Arable_Land.Integrator1.y` to `Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals`.

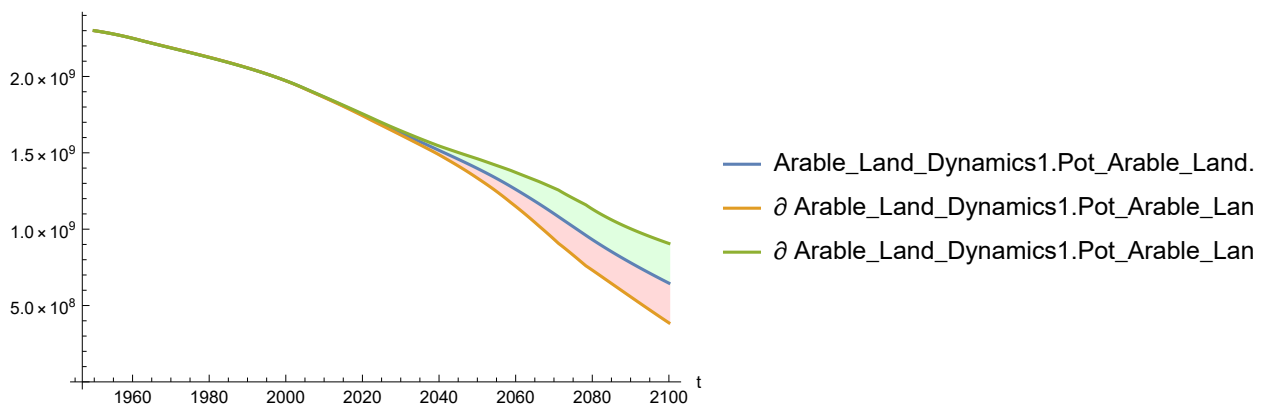
```
In[20]:= SystemModelPlot[simsensdata, {"Arable_Land_Dynamics1.Pot_Arable_Land.Integrator1.y",
"Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[1]", percentvar}]
```

Out[20]=



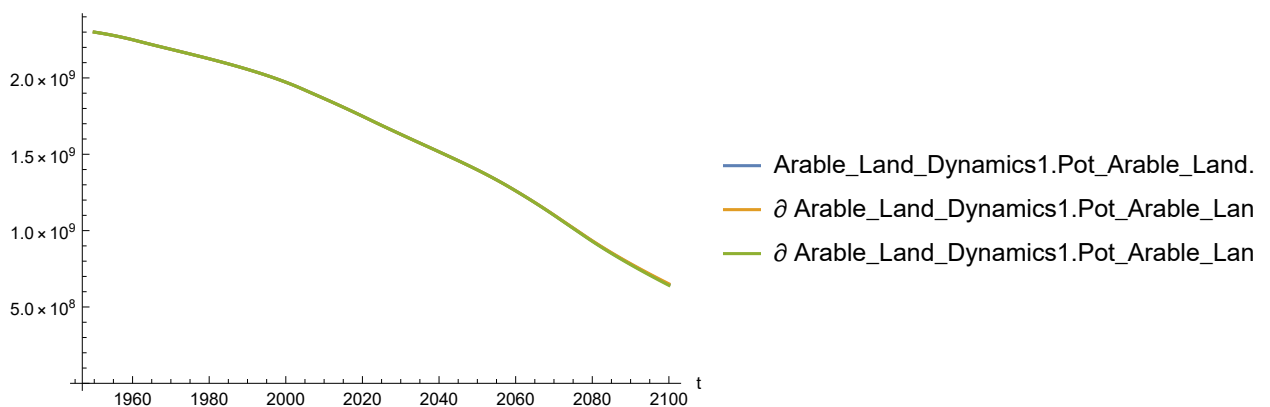
```
In[21]:= SystemModelPlot[simsensdata, {"Arable_Land_Dynamics1.Pot_Arable_Land.Integrator1.y",
"Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[2]", percentvar}]
```

Out[21]=



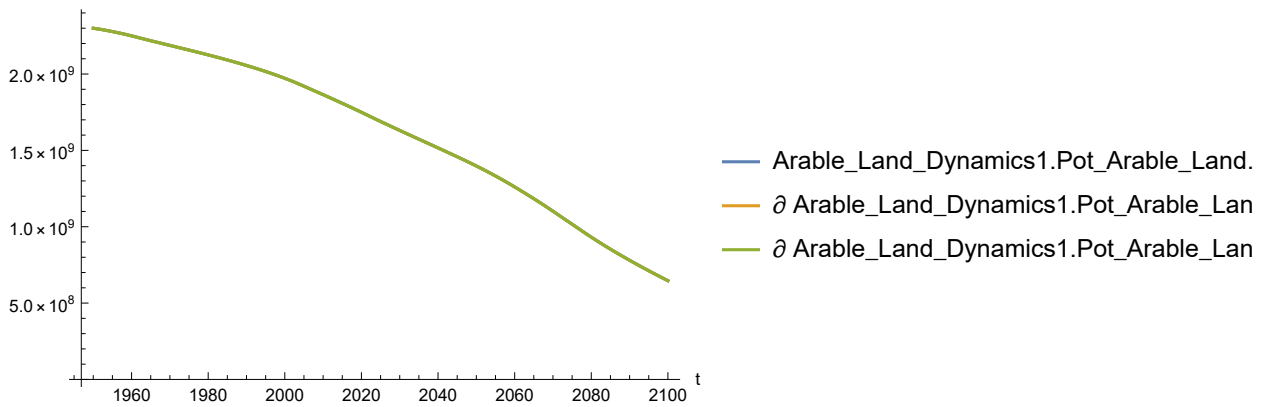
```
In[22]:= SystemModelPlot[simsensdata, {"Arable_Land_Dynamics1.Pot_Arable_Land.Integrator1.y",
"Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[3]", percentvar}]
```

Out[22]=



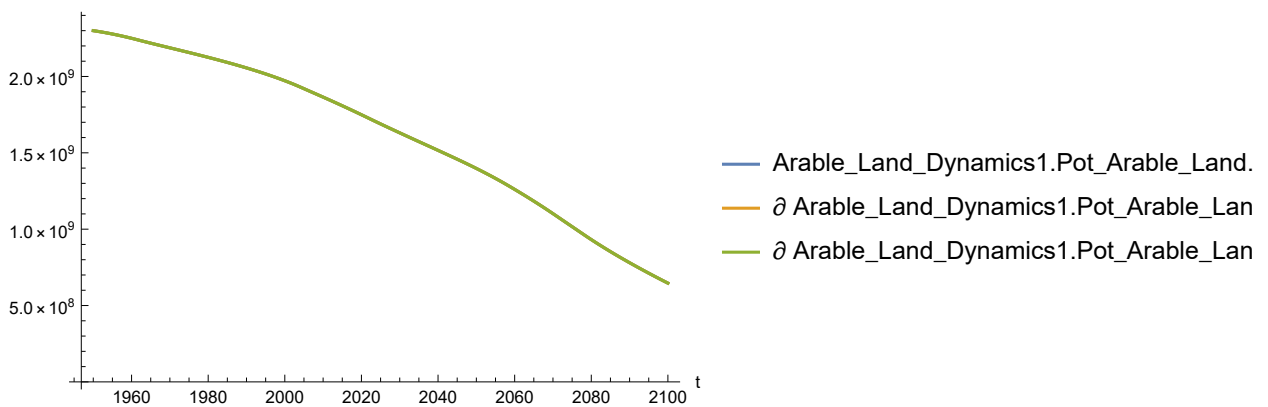
```
In[23]:= SystemModelPlot[simsensdata, {"Arable_Land_Dynamics1.Pot_Arable_Land.Integrator1.y",
"Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[4]", percentvar}]
```

Out[23]=



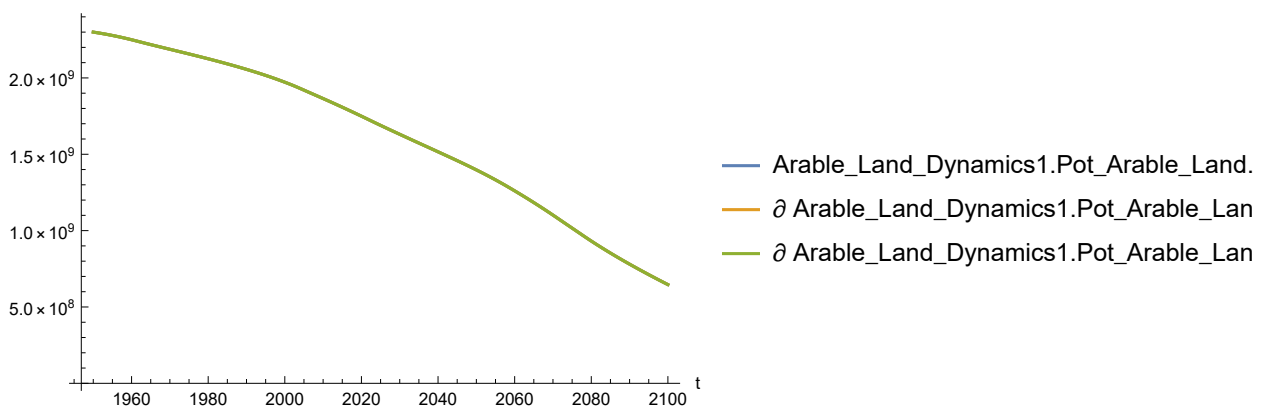
```
In[24]:= SystemModelPlot[simsensdata, {"Arable_Land_Dynamics1.Pot_Arable_Land.Integrator1.y",
"Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[5]", percentvar}]
```

Out[24]=



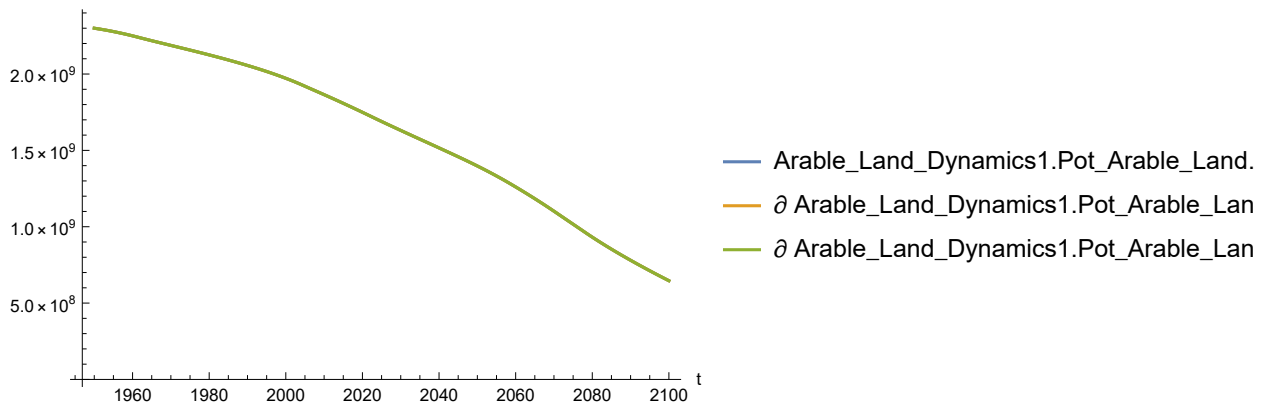
```
In[25]:= SystemModelPlot[simsensdata, {"Arable_Land_Dynamics1.Pot_Arable_Land.Integrator1.y",
"Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[6]", percentvar}]
```

Out[25]=



```
In[26]:= SystemModelPlot[simsensdata, {"Arable_Land_Dynamics1.Pot_Arable_Land.Integrator1.y",
"Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[7]", percentvar}]
```

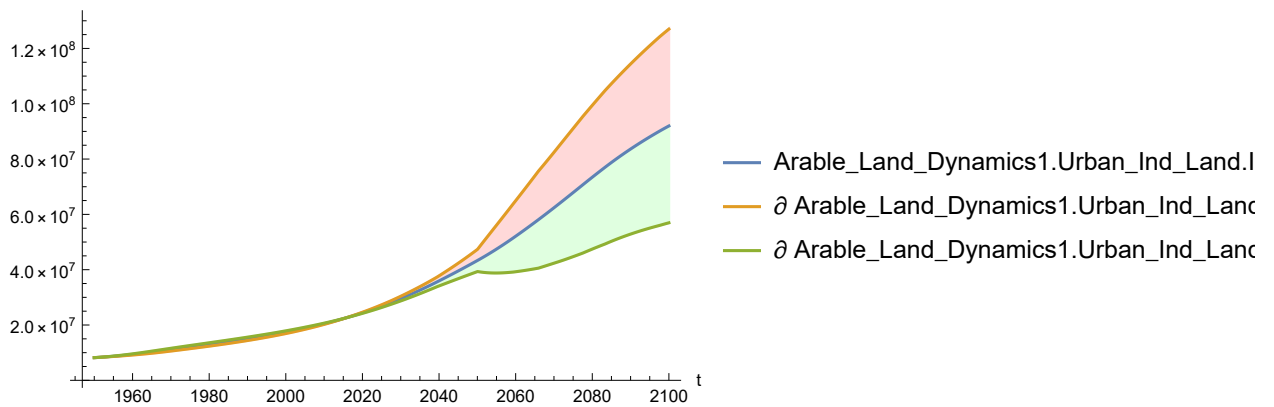
Out[26]=



Plot the sensitivity of Arable_Land_Dynamics1.Urban_Ind_Land.Integrator1.y to Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals.

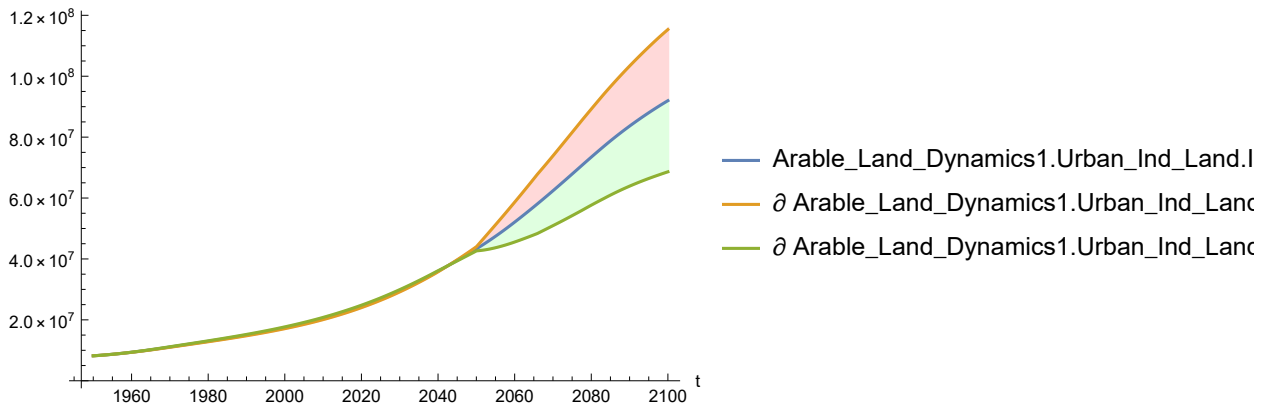
```
In[27]:= SystemModelPlot[simsensdata, {"Arable_Land_Dynamics1.Urban_Ind_Land.Integrator1.y",
"Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[1]", percentvar}]
```

Out[27]=



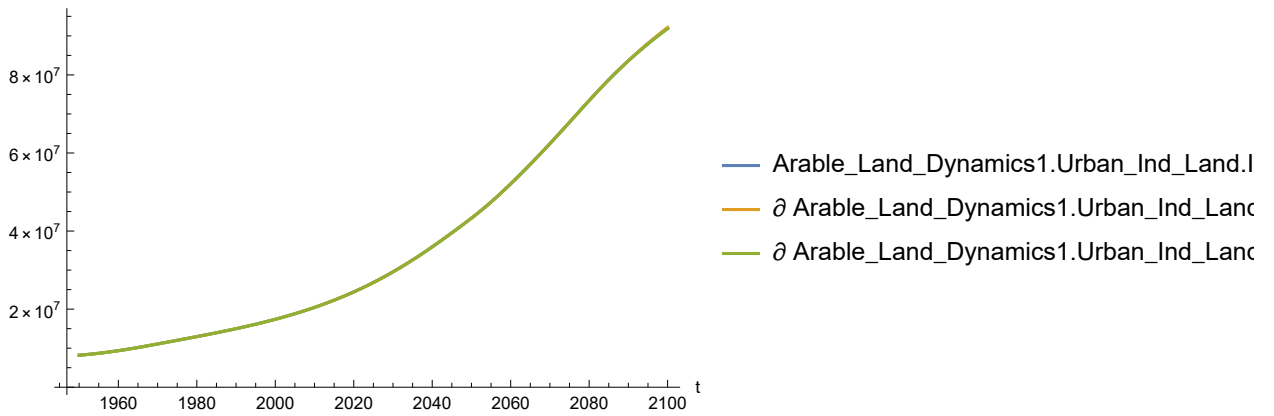

```
In[28]:= SystemModelPlot[simsensdata, {"Arable_Land_Dynamics1.Urban_Ind_Land.Integrator1.y",
"Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[2]", percentvar}]
```

Out[28]=



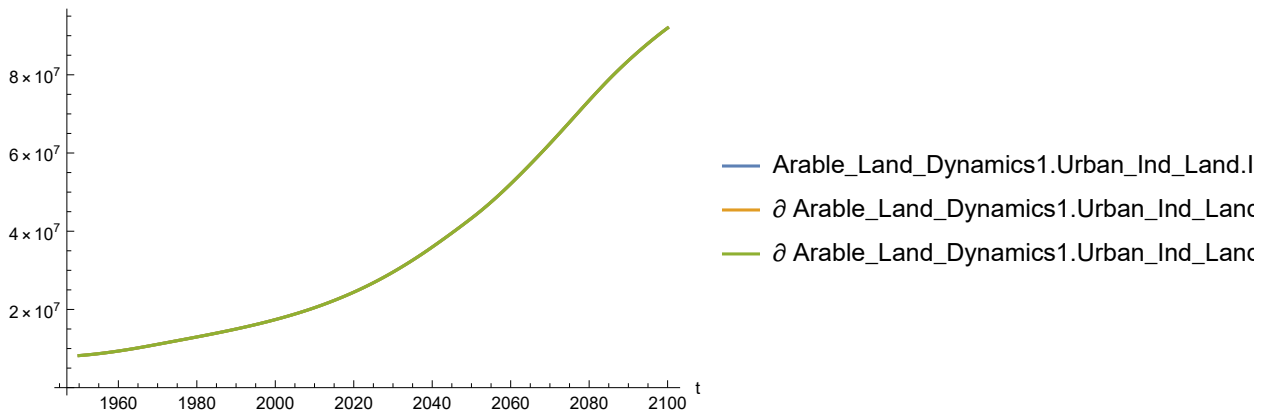
```
In[29]:= SystemModelPlot[simsensdata, {"Arable_Land_Dynamics1.Urban_Ind_Land.Integrator1.y",
"Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[3]", percentvar}]
```

Out[29]=



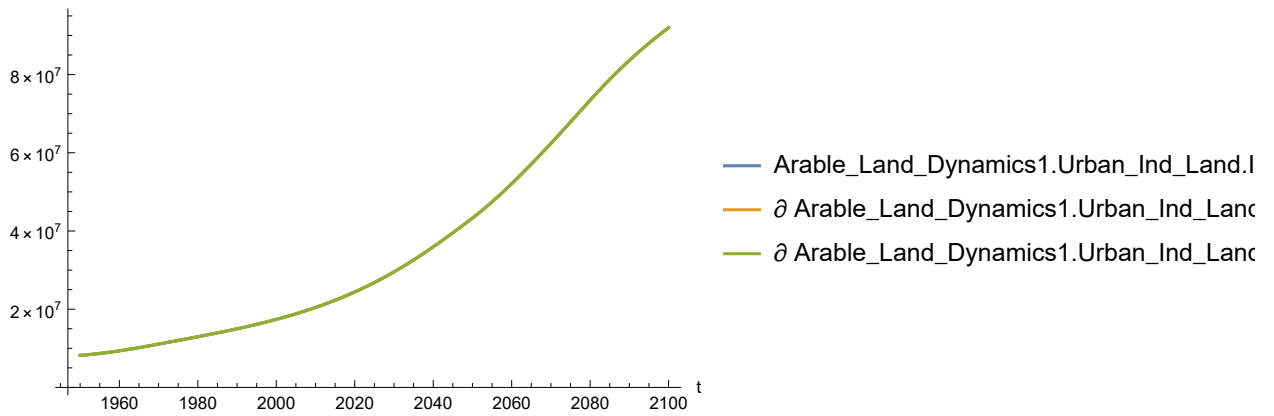
```
In[30]:= SystemModelPlot[simsensdata, {"Arable_Land_Dynamics1.Urban_Ind_Land.Integrator1.y",
"Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[4]", percentvar}]
```

Out[30]=



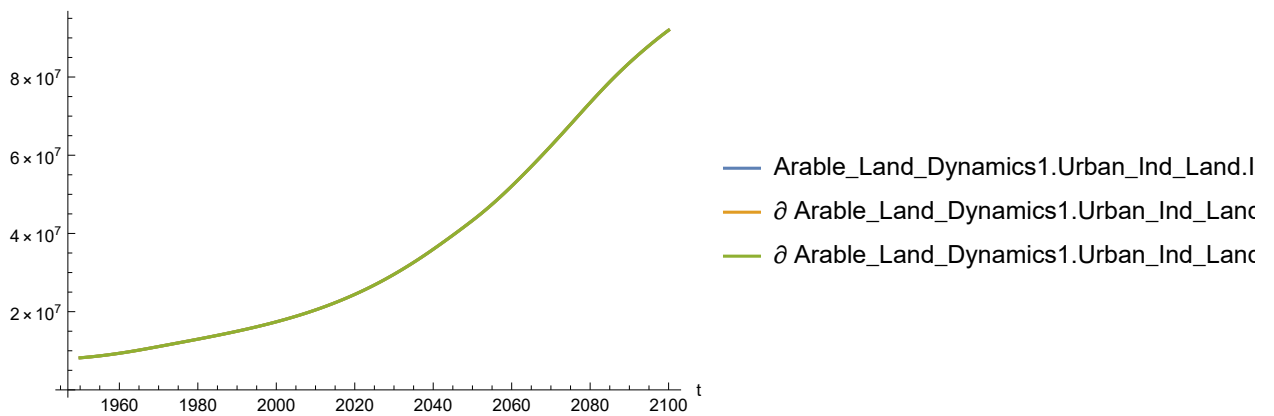
```
In[31]:= SystemModelPlot[simsensdata, {"Arable_Land_Dynamics1.Urban_Ind_Land.Integrator1.y",
"Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[5]", percentvar}]
```

Out[31]=



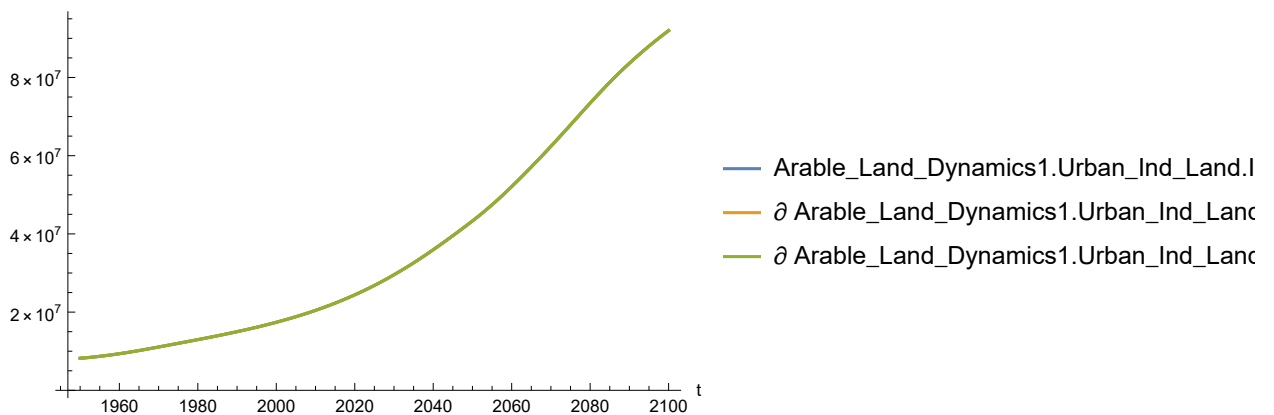
```
In[32]:= SystemModelPlot[simsensdata, {"Arable_Land_Dynamics1.Urban_Ind_Land.Integrator1.y",
"Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[6]", percentvar}]
```

Out[32]=



```
In[33]:= SystemModelPlot[simsensdata, {"Arable_Land_Dynamics1.Urban_Ind_Land.Integrator1.y",
"Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[7]", percentvar}]
```

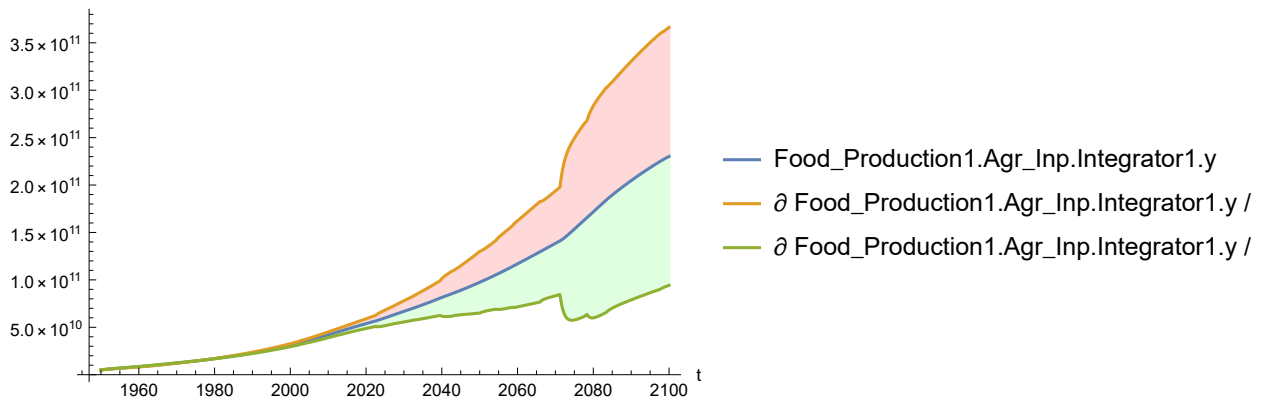
Out[33]=



Plot sensitivity of Food_Production.Agr_Inp.Integrator1.y to **Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals**.

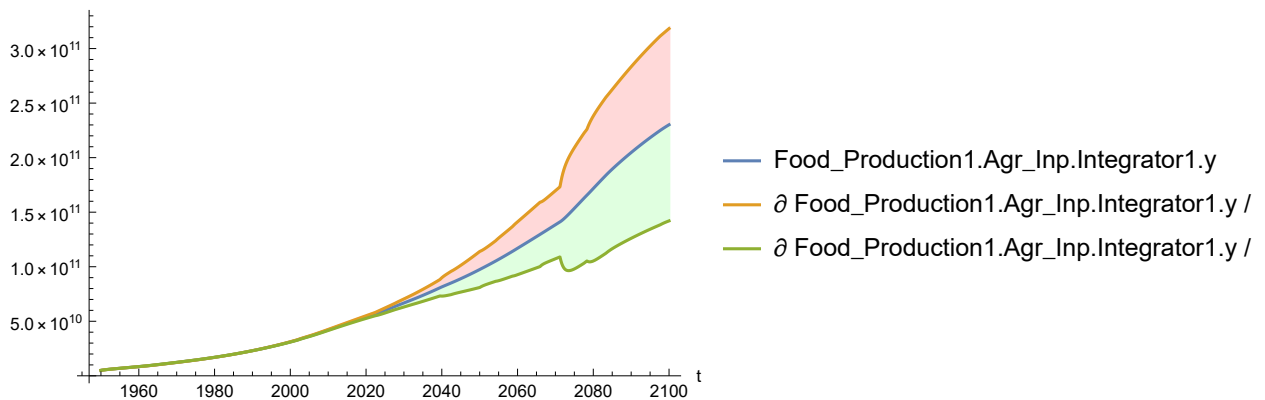
```
In[34]:= SystemModelPlot[simsensdata, {"Food_Production1.Agr_Inp.Integrator1.y",
  "Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[1]", percentvar}]
```

Out[34]=



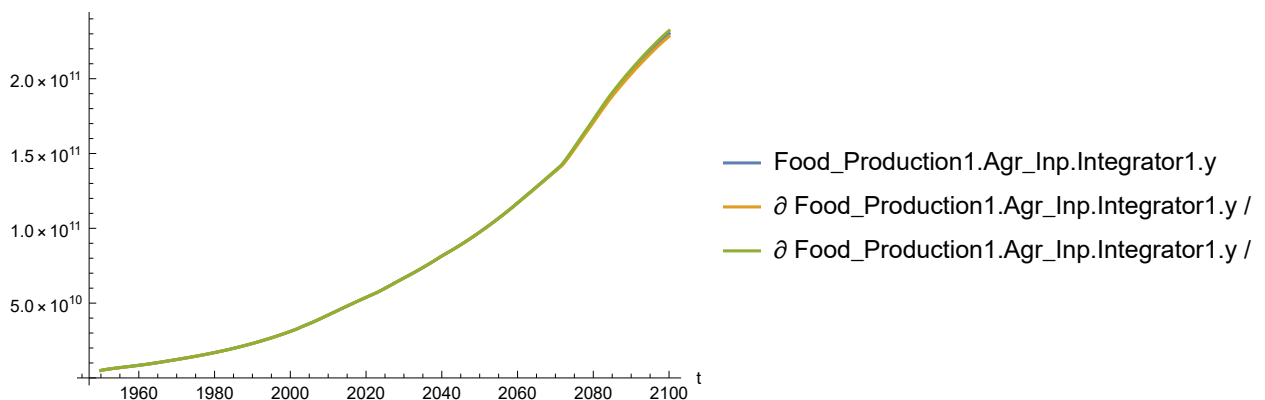
```
In[35]:= SystemModelPlot[simsensdata, {"Food_Production1.Agr_Inp.Integrator1.y",
  "Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[2]", percentvar}]
```

Out[35]=



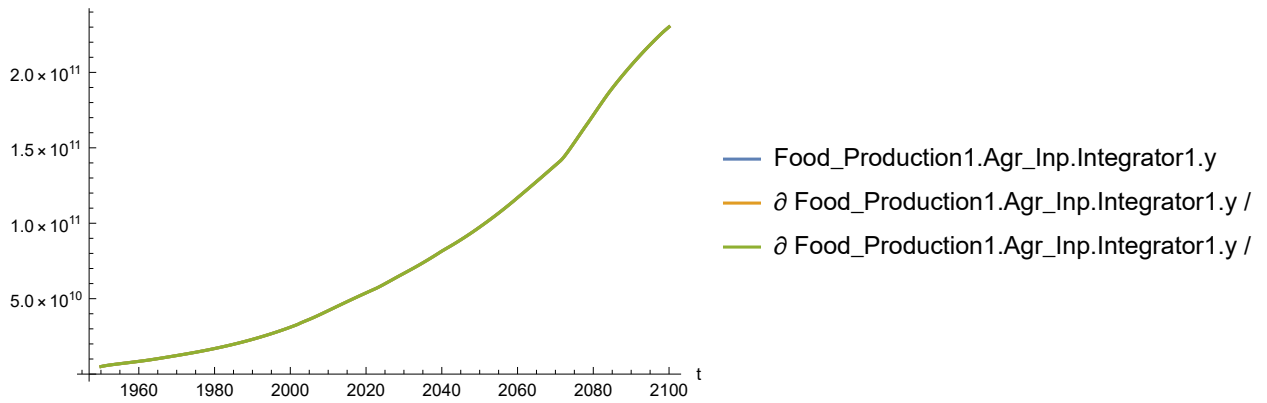
```
In[36]:= SystemModelPlot[simsensdata, {"Food_Production1.Agr_Inp.Integrator1.y",
  "Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[3]", percentvar}]
```

Out[36]=



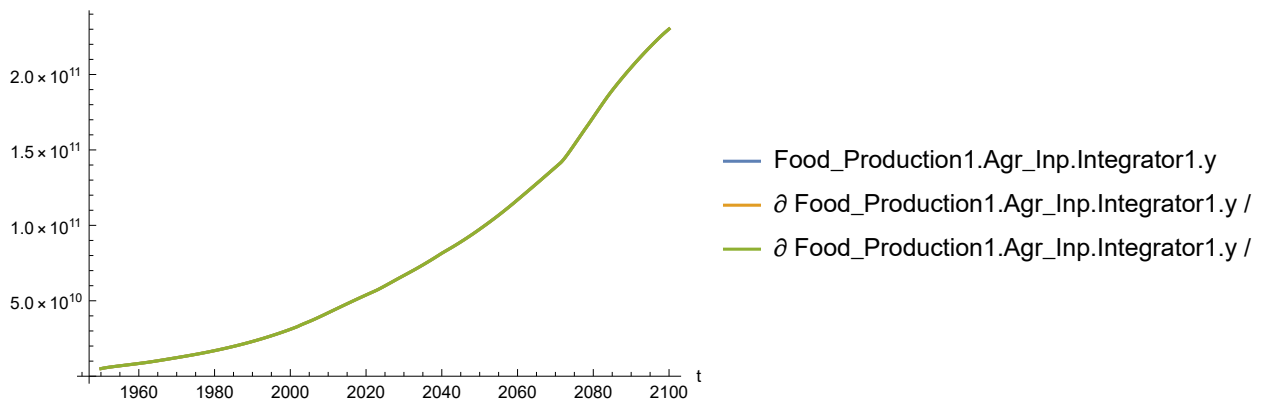
```
In[37]:= SystemModelPlot[simsensdata, {"Food_Production1.Agr_Inp.Integrator1.y",
"Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[4]", percentvar}]
```

Out[37]=



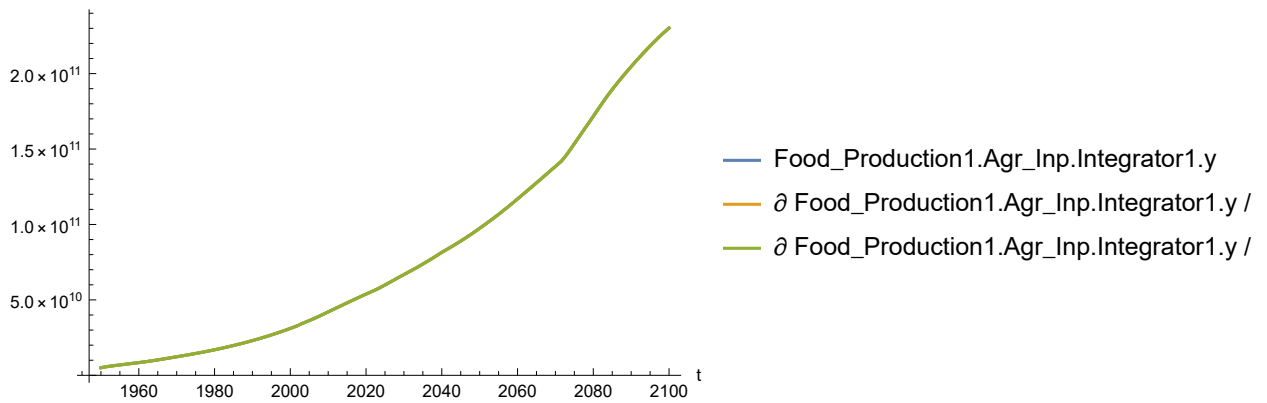
```
In[38]:= SystemModelPlot[simsensdata, {"Food_Production1.Agr_Inp.Integrator1.y",
"Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[5]", percentvar}]
```

Out[38]=



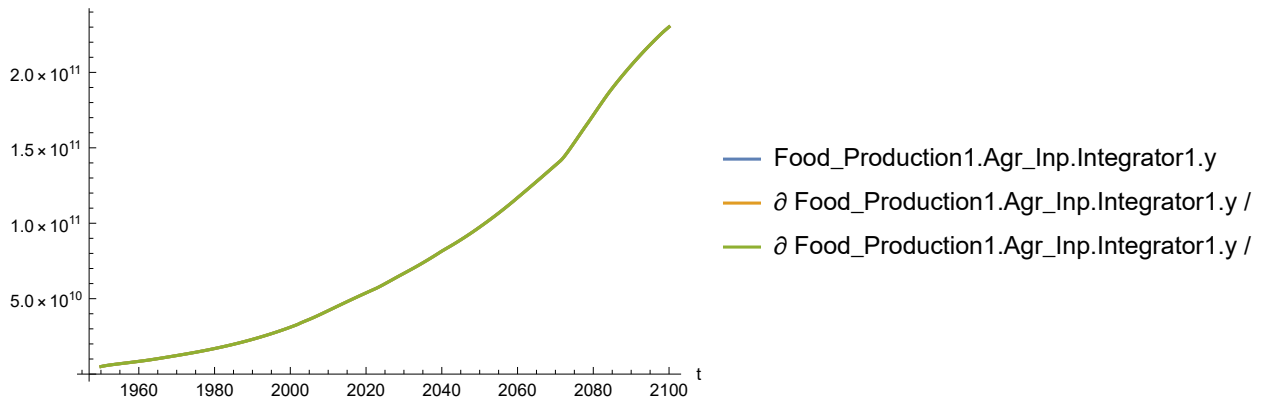
```
In[39]:= SystemModelPlot[simsensdata, {"Food_Production1.Agr_Inp.Integrator1.y",
"Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[6]", percentvar}]
```

Out[39]=



```
In[40]:= SystemModelPlot[simsensdata, {"Food_Production1.Agr_Inp.Integrator1.y",
"Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[7]", percentvar}]
```

Out[40]=

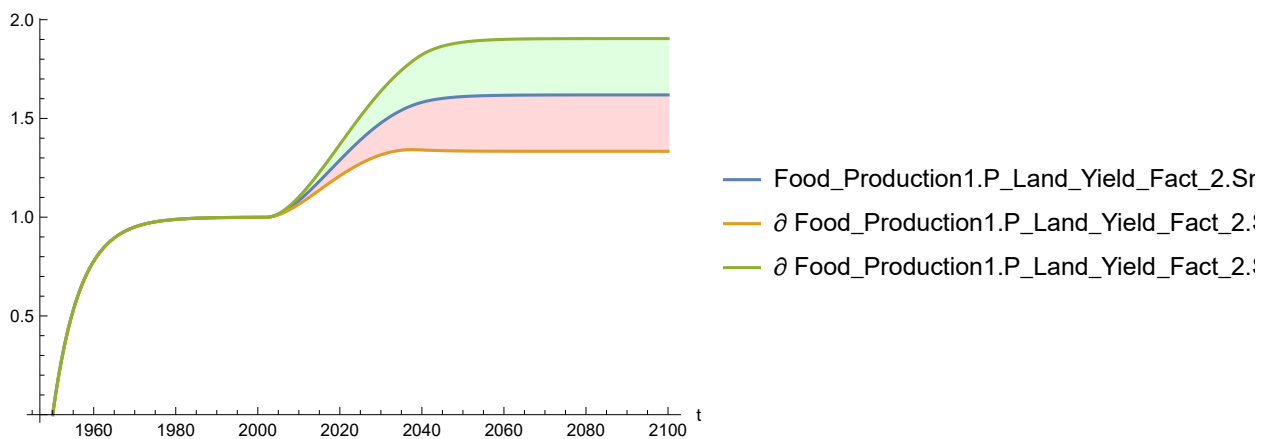


Plot sensitivity of **Food_Production1.P_Land_Yield_Fact2** to **Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals**.

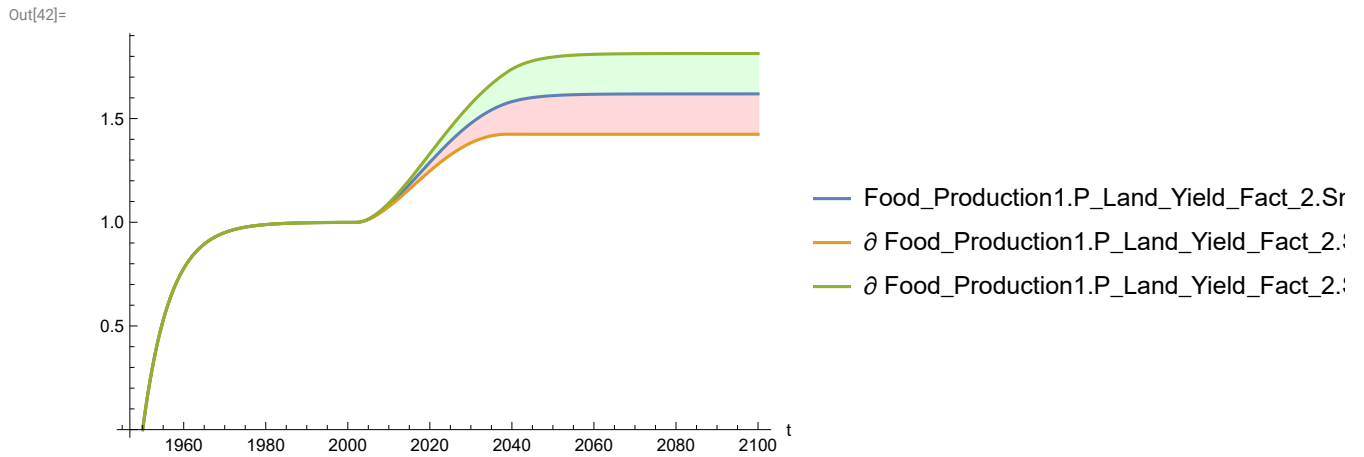
Plot the sensitivity of Food_Production1.P_Land_Yield_Fact_2.SmoothN.Integrator1.y, where N = 1, 2, 3, to variation in **Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals**.

```
In[41]:= SystemModelPlot[simsensdata, {"Food_Production1.P_Land_Yield_Fact_2.Smooth1.Integrator1.y",
"Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[1]", percentvar}]
```

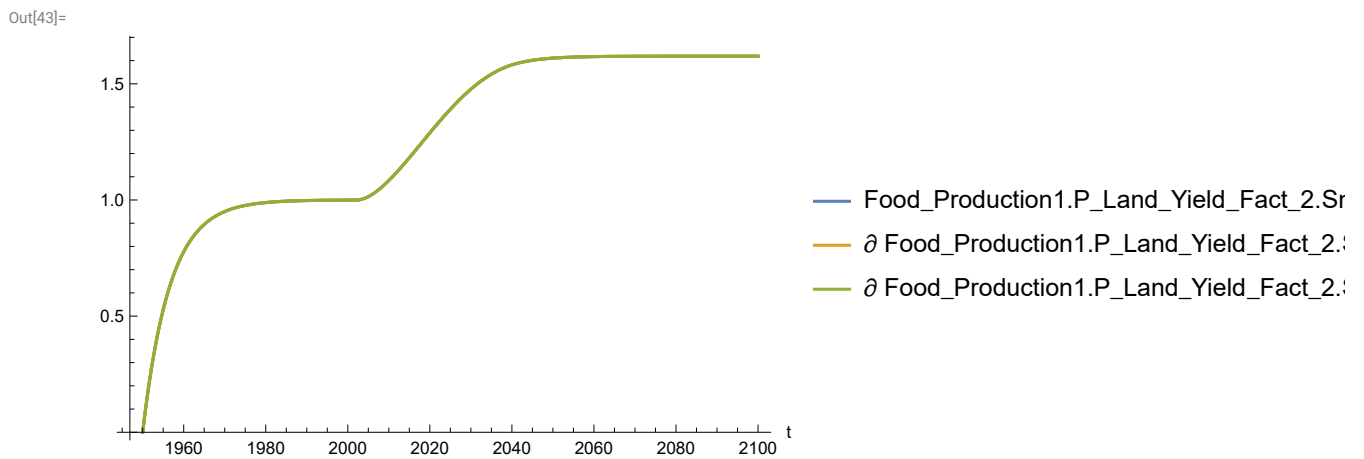
Out[41]=



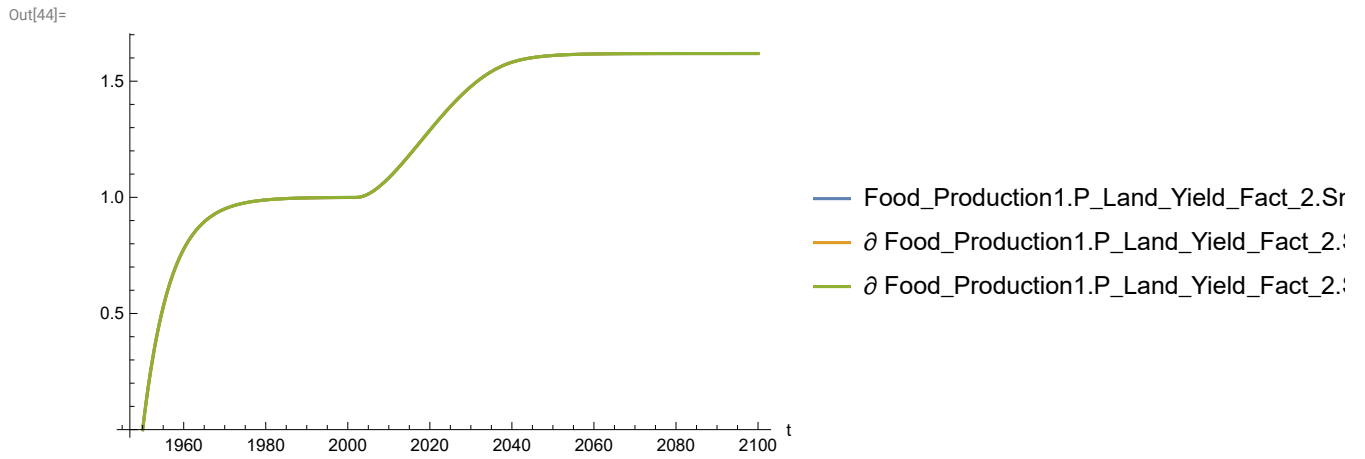
```
In[42]:= SystemModelPlot[simsensdata,
  {"Food_Production1.P_Land_Yield_Fact_2.Smooth1.Integrator1.y",
   "Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[2]", percentvar}]
```



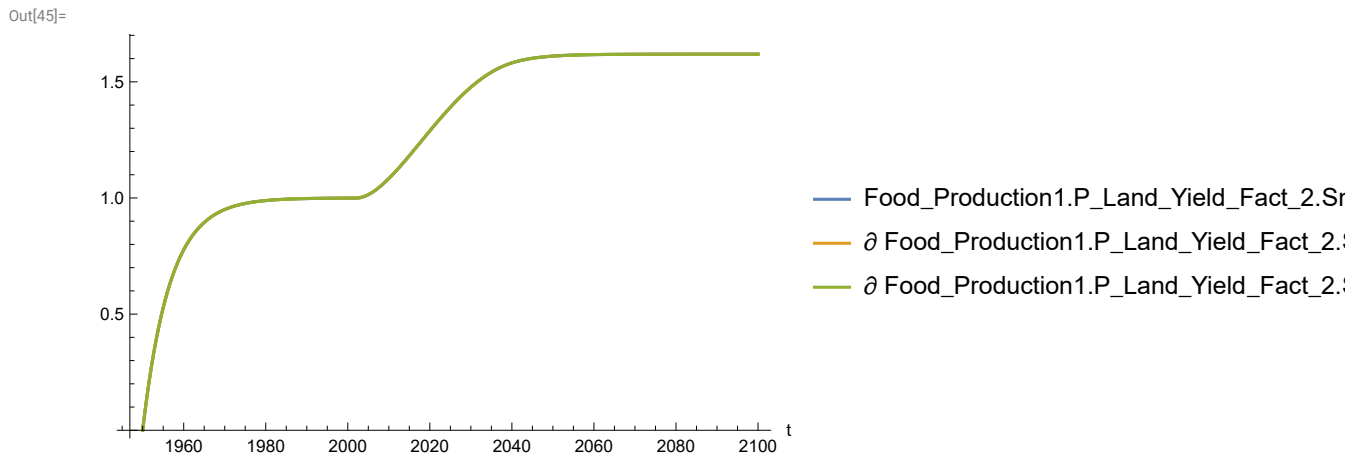
```
In[43]:= SystemModelPlot[simsensdata,
  {"Food_Production1.P_Land_Yield_Fact_2.Smooth1.Integrator1.y",
   "Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[3]", percentvar}]
```



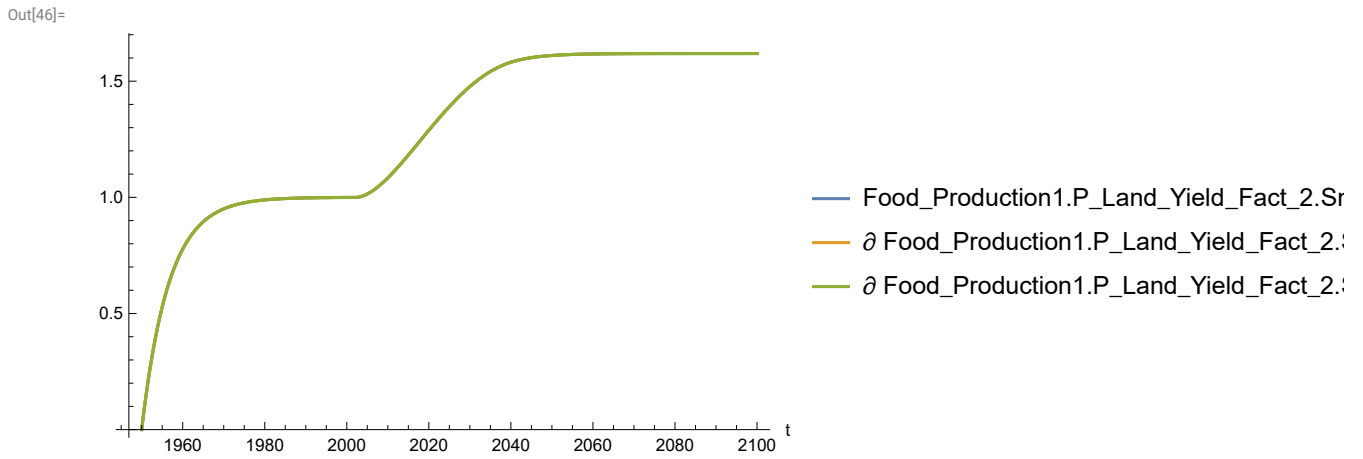
```
In[44]:= SystemModelPlot[simsensdata,
  {"Food_Production1.P_Land_Yield_Fact_2.Smooth1.Integrator1.y",
   "Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[4]", percentvar}]
```



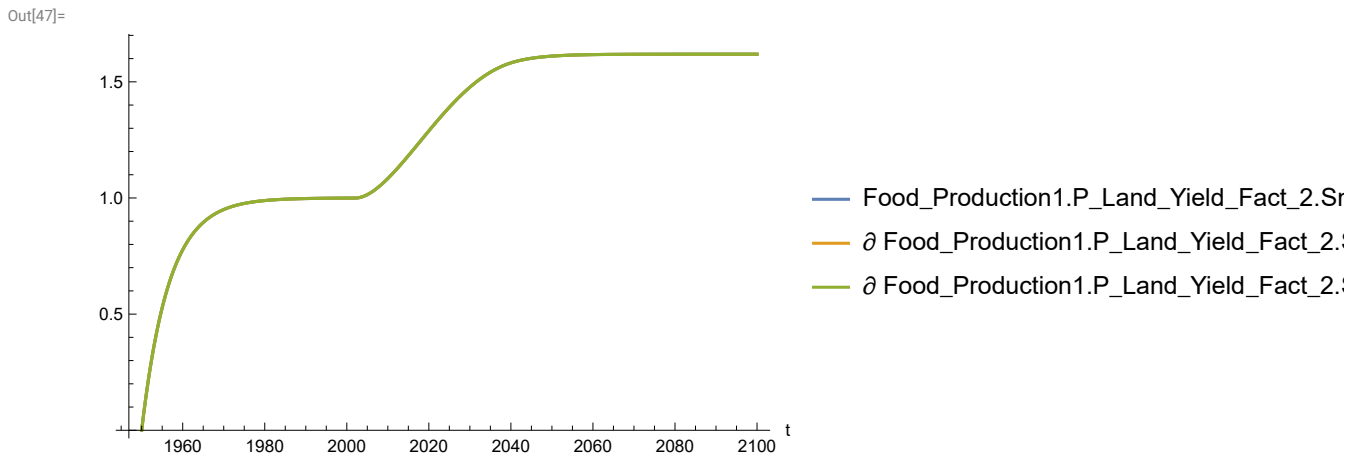
```
In[45]:= SystemModelPlot[simsensdata,
  {"Food_Production1.P_Land_Yield_Fact_2.Smooth1.Integrator1.y",
   "Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[5]", percentvar}]
```



```
In[46]:= SystemModelPlot[simsensdata,
  {"Food_Production1.P_Land_Yield_Fact_2.Smooth1.Integrator1.y",
   "Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[6]", percentvar}]
```

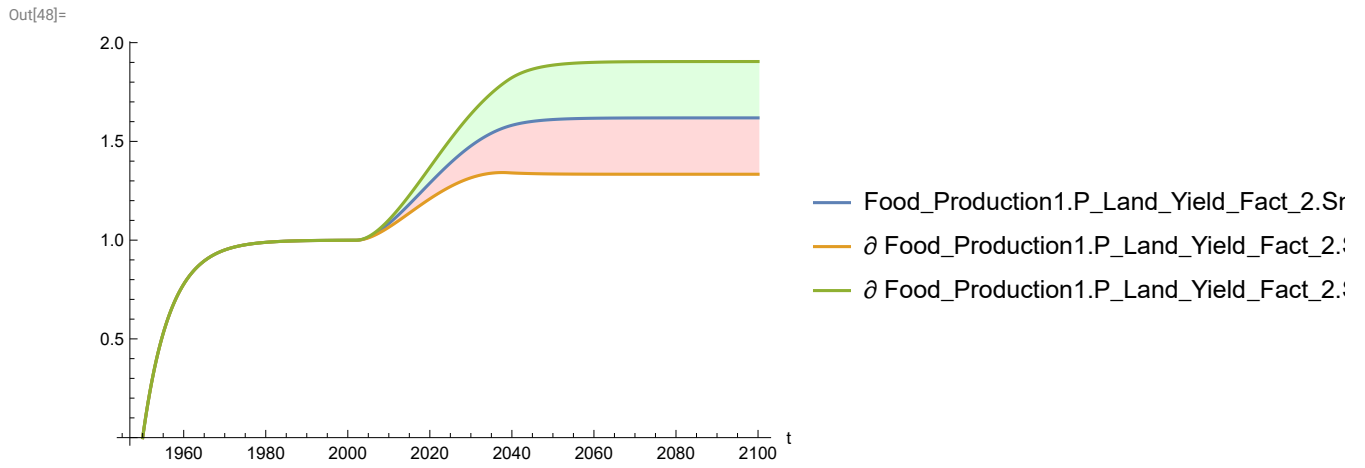


```
In[47]:= SystemModelPlot[simsensdata,
  {"Food_Production1.P_Land_Yield_Fact_2.Smooth1.Integrator1.y",
   "Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[7]", percentvar}]
```

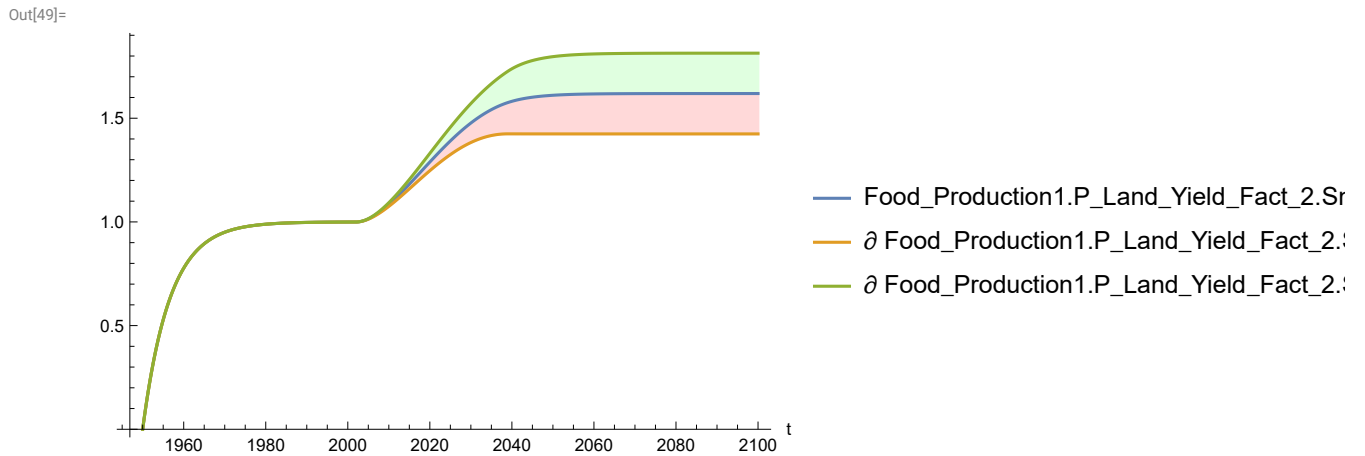


Plot the sensitivity of Food_Production1.P_Land_Yield_Fact_2.Smooth1.Integrator1.y to Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals.

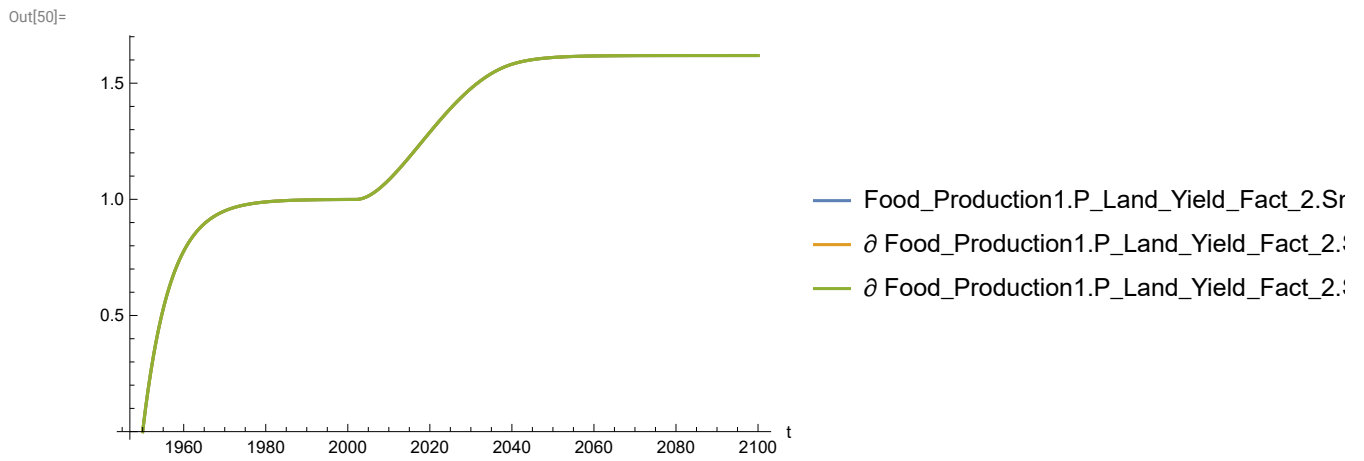

```
In[48]:= SystemModelPlot[simsensdata,
  {"Food_Production1.P_Land_Yield_Fact_2.Smooth1.Integrator1.y",
   "Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[1]", percentvar}]
```



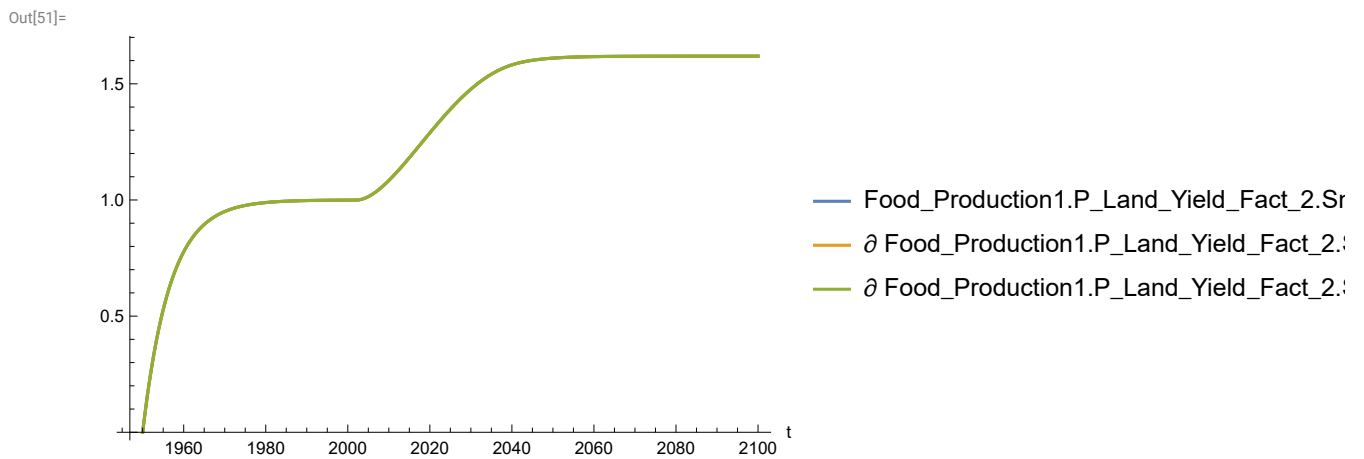
```
In[49]:= SystemModelPlot[simsensdata,
  {"Food_Production1.P_Land_Yield_Fact_2.Smooth1.Integrator1.y",
   "Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[2]", percentvar}]
```



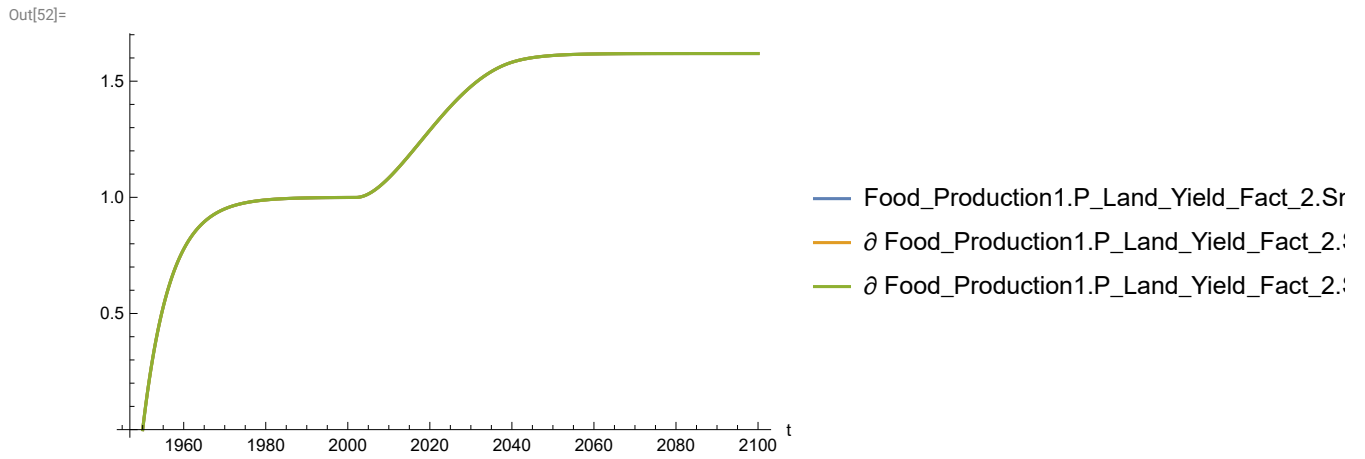
```
In[50]:= SystemModelPlot[simsensdata,
  {"Food_Production1.P_Land_Yield_Fact_2.Smooth1.Integrator1.y",
   "Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[3]", percentvar}]
```



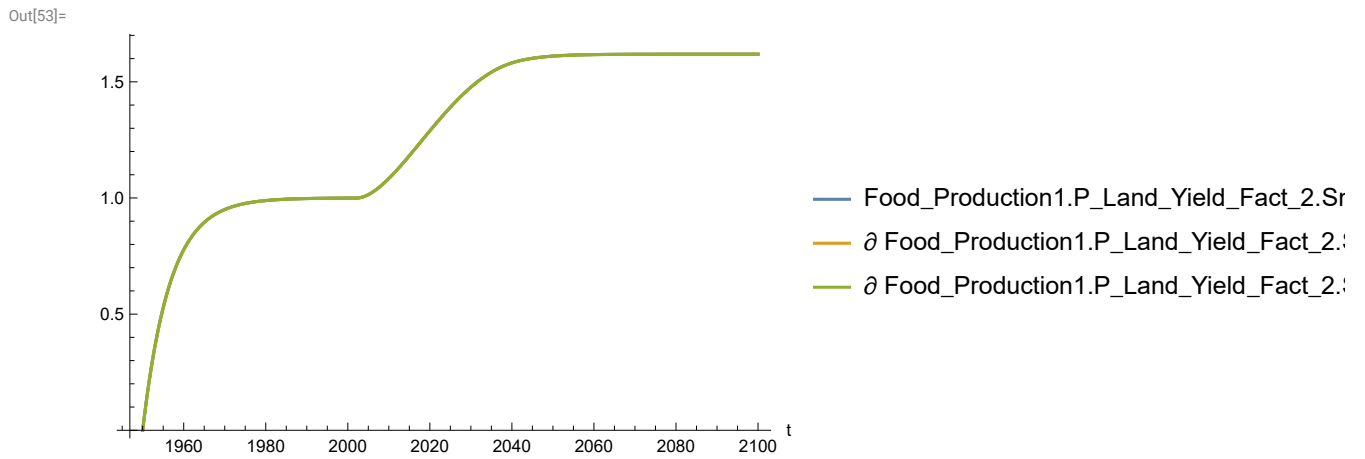
```
In[51]:= SystemModelPlot[simsensdata,
  {"Food_Production1.P_Land_Yield_Fact_2.Smooth1.Integrator1.y",
   "Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[4]", percentvar}]
```



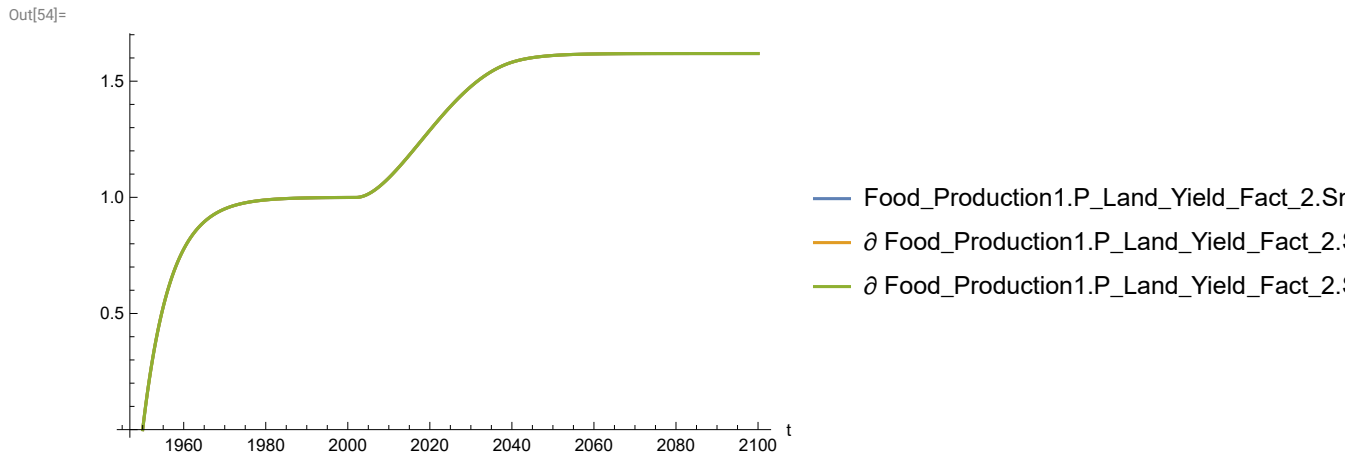
```
In[52]:= SystemModelPlot[simsensdata,
  {"Food_Production1.P_Land_Yield_Fact_2.Smooth1.Integrator1.y",
   "Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[5]", percentvar}]
```



```
In[53]:= SystemModelPlot[simsensdata,
  {"Food_Production1.P_Land_Yield_Fact_2.Smooth1.Integrator1.y",
   "Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[6]", percentvar}]
```

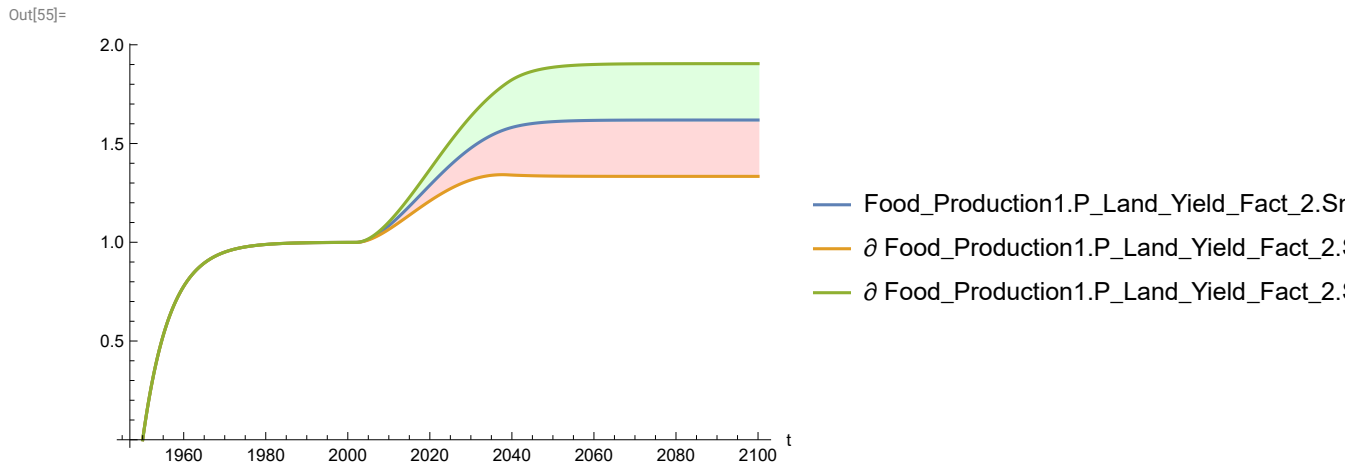


```
In[54]:= SystemModelPlot[simsensdata,
  {"Food_Production1.P_Land_Yield_Fact_2.Smooth1.Integrator1.y",
   "Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[7]", percentvar}]
```



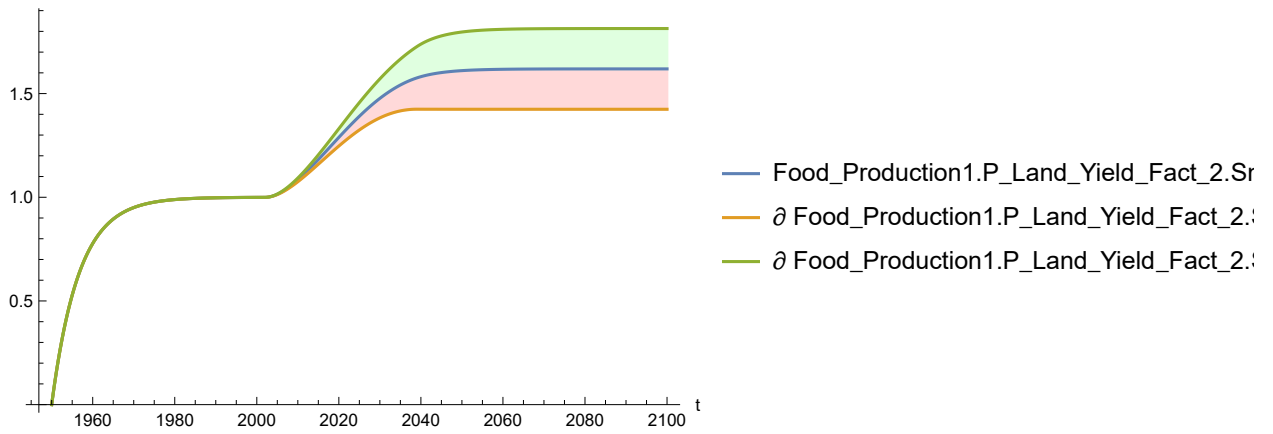
Plot the sensitivity of Food_Production1.P_Land_Yield_Fact_2.Smooth1.Integrator1.y to Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals.

```
In[55]:= SystemModelPlot[simsensdata,
  {"Food_Production1.P_Land_Yield_Fact_2.Smooth1.Integrator1.y",
   "Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[1]", percentvar}]
```



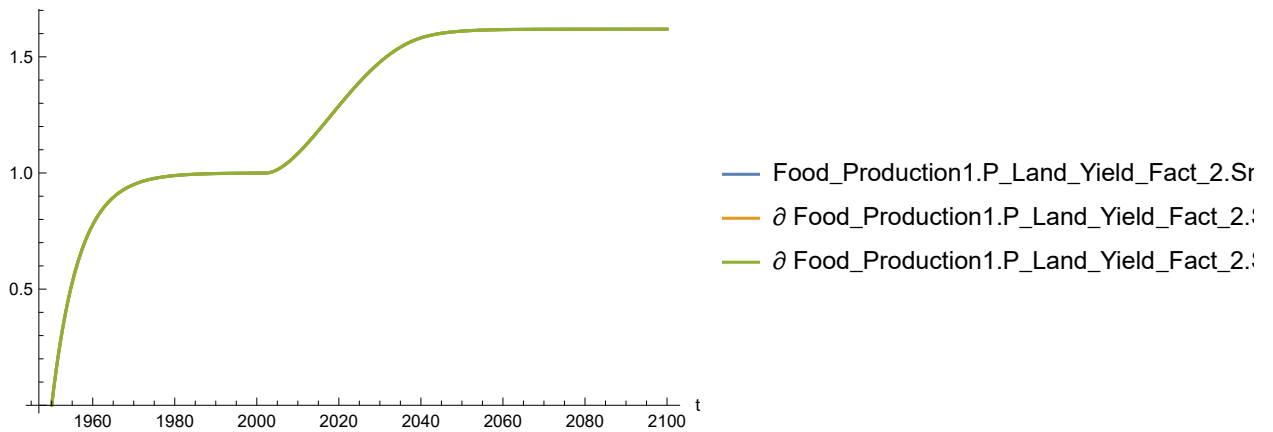
```
In[56]:= SystemModelPlot[simsensdata,
  {"Food_Production1.P_Land_Yield_Fact_2.Smooth1.Integrator1.y",
   "Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[2]", percentvar}]
```

Out[56]=

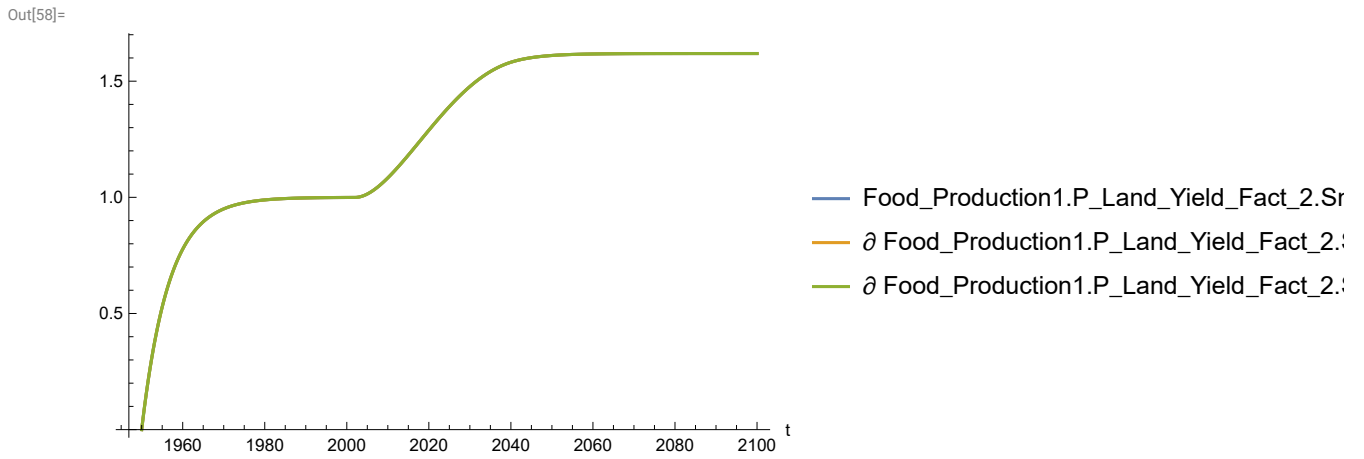


```
In[57]:= SystemModelPlot[simsensdata,
  {"Food_Production1.P_Land_Yield_Fact_2.Smooth1.Integrator1.y",
   "Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[3]", percentvar}]
```

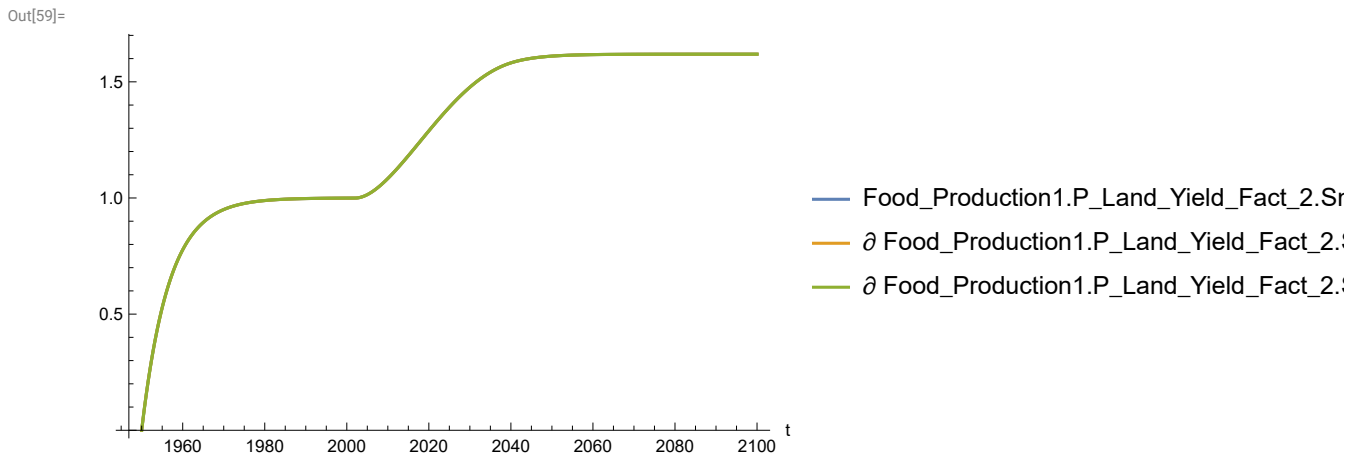
Out[57]=



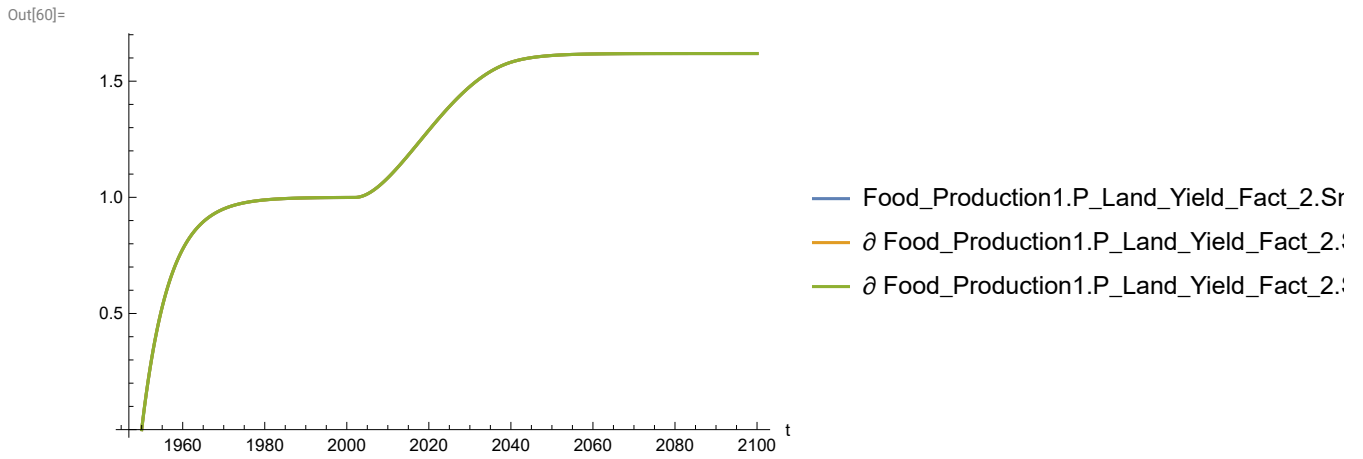
```
In[58]:= SystemModelPlot[simsensdata,
  {"Food_Production1.P_Land_Yield_Fact_2.Smooth1.Integrator1.y",
   "Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[4]", percentvar}]
```



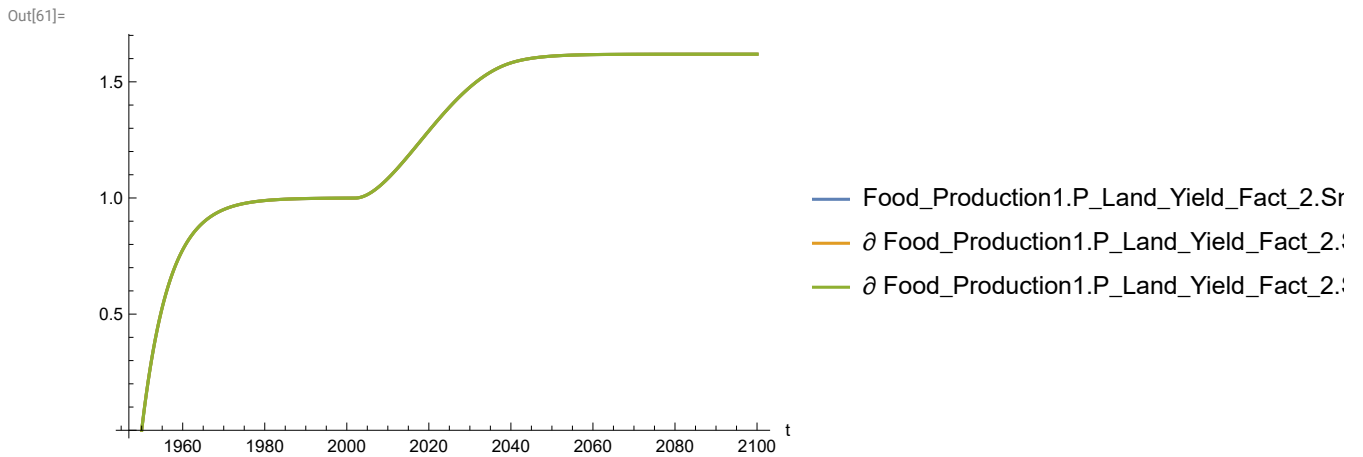
```
In[59]:= SystemModelPlot[simsensdata,
  {"Food_Production1.P_Land_Yield_Fact_2.Smooth1.Integrator1.y",
   "Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[5]", percentvar}]
```



```
In[60]:= SystemModelPlot[simsensdata,
  {"Food_Production1.P_Land_Yield_Fact_2.Smooth1.Integrator1.y",
   "Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[6]", percentvar}]
```

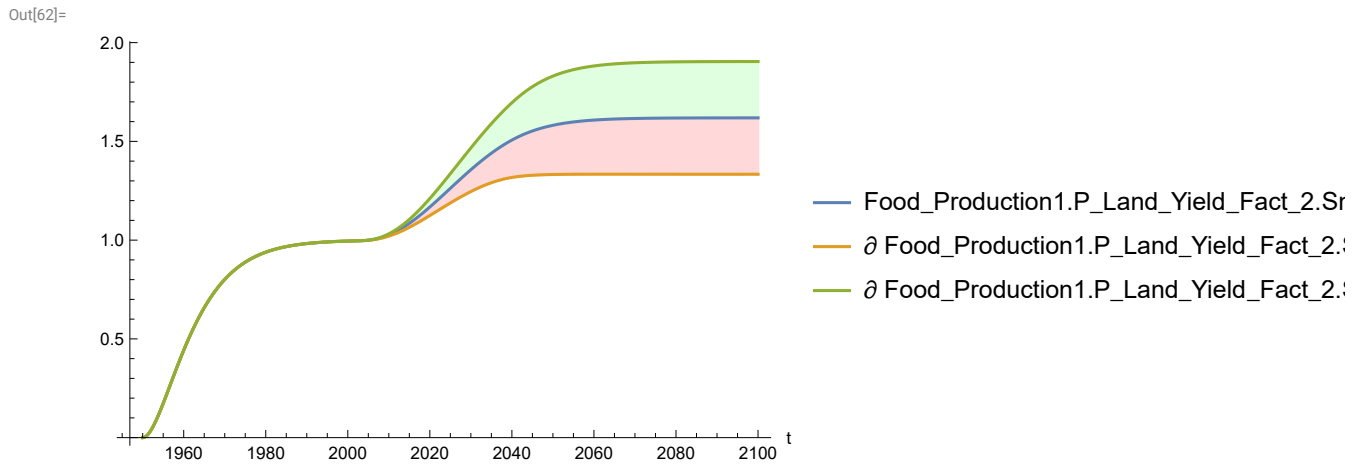


```
In[61]:= SystemModelPlot[simsensdata,
  {"Food_Production1.P_Land_Yield_Fact_2.Smooth1.Integrator1.y",
   "Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[7]", percentvar}]
```

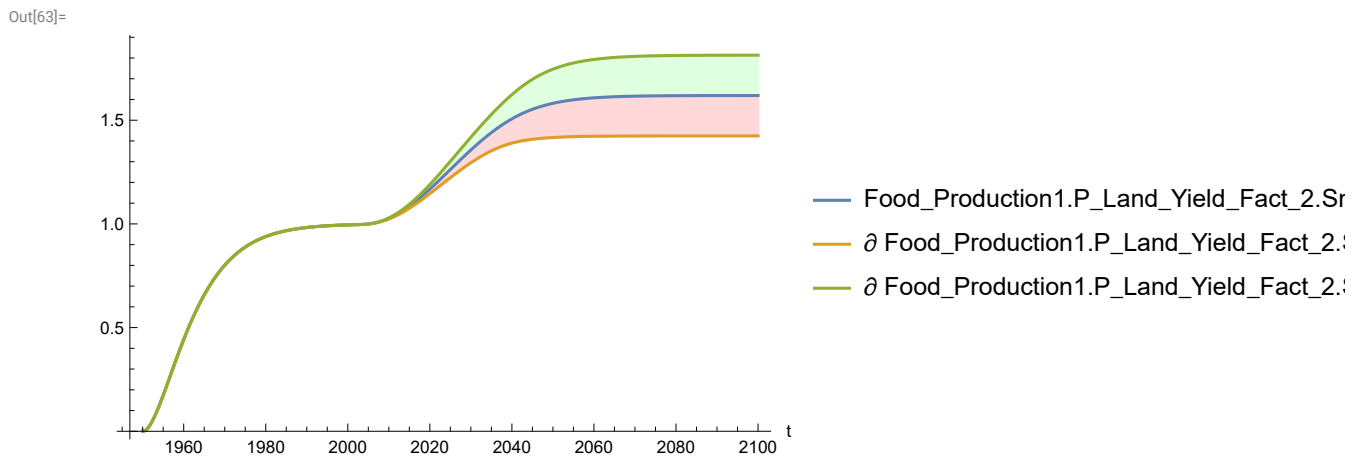


Plot the sensitivity of Food_Production1.P_Land_Yield_Fact_2.Smooth2.Integrator1.y to Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals.

```
In[62]:= SystemModelPlot[simsensdata,
  {"Food_Production1.P_Land_Yield_Fact_2.Smooth2.Integrator1.y",
   "Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[1]", percentvar}]
```

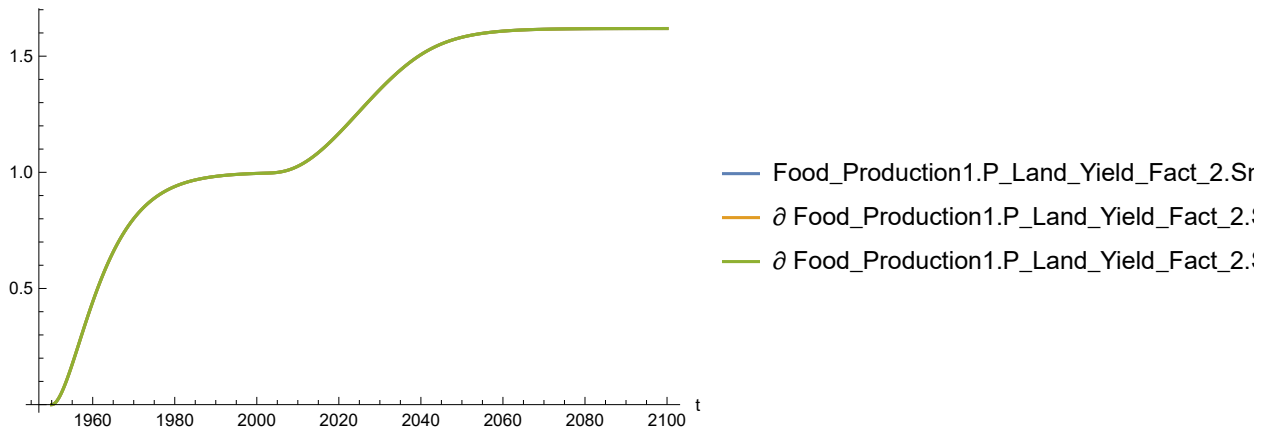


```
In[63]:= SystemModelPlot[simsensdata,
  {"Food_Production1.P_Land_Yield_Fact_2.Smooth2.Integrator1.y",
   "Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[2]", percentvar}]
```



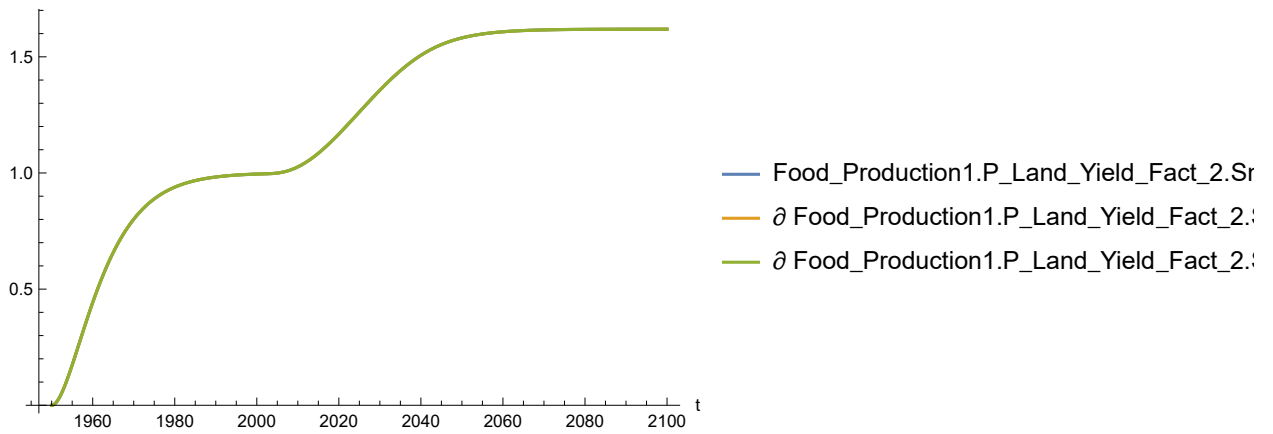

```
In[64]:= SystemModelPlot[simsensdata,
  {"Food_Production1.P_Land_Yield_Fact_2.Smooth2.Integrator1.y",
   "Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[3]", percentvar}]
```

Out[64]=

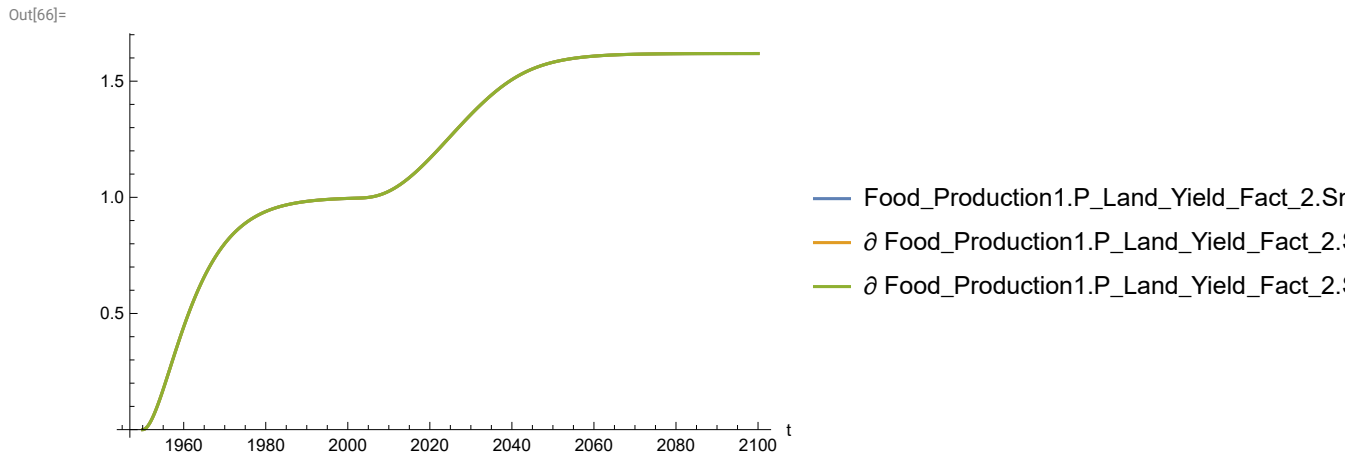


```
In[65]:= SystemModelPlot[simsensdata,
  {"Food_Production1.P_Land_Yield_Fact_2.Smooth2.Integrator1.y",
   "Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[4]", percentvar}]
```

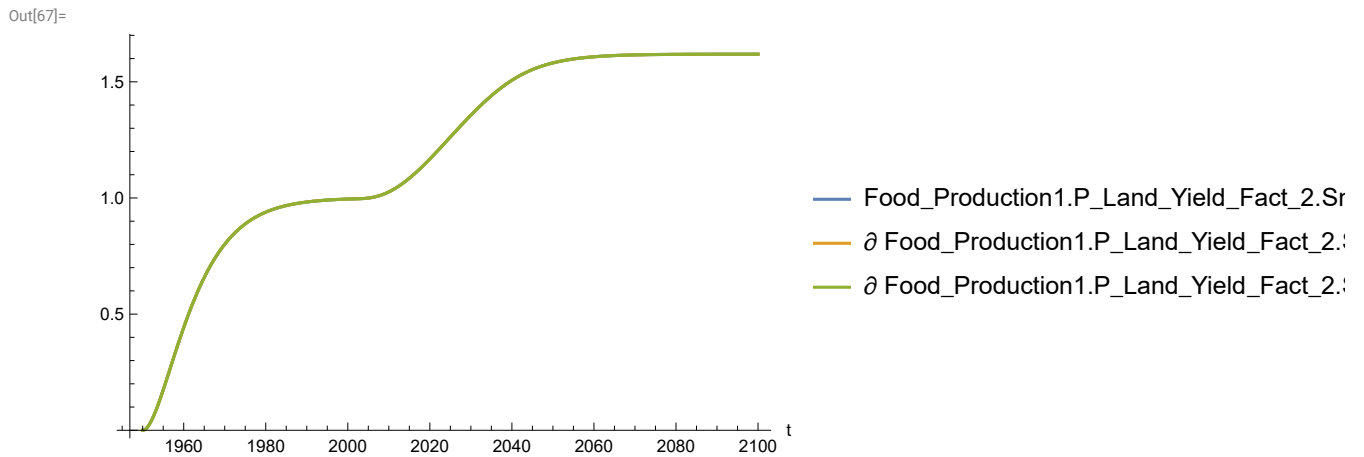
Out[65]=



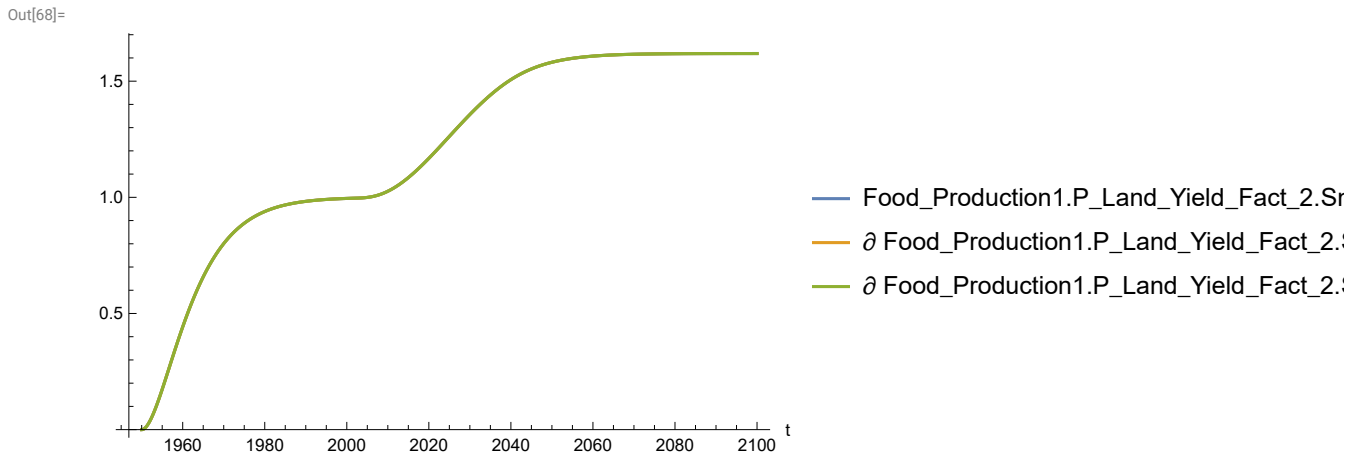
```
In[66]:= SystemModelPlot[simsensdata,
  {"Food_Production1.P_Land_Yield_Fact_2.Smooth2.Integrator1.y",
   "Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[5]", percentvar}]
```



```
In[67]:= SystemModelPlot[simsensdata,
  {"Food_Production1.P_Land_Yield_Fact_2.Smooth2.Integrator1.y",
   "Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[6]", percentvar}]
```

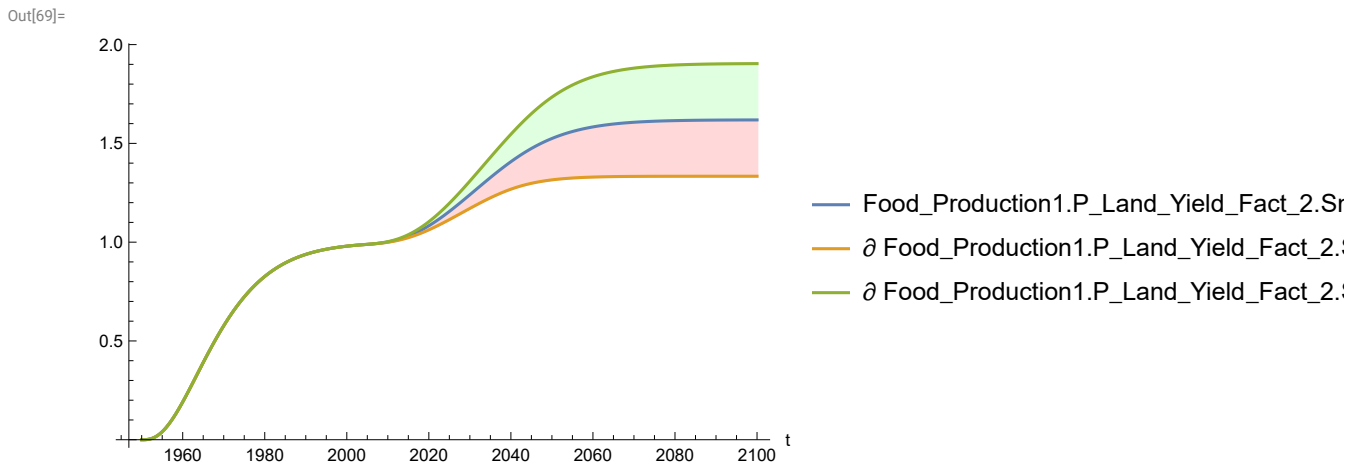


```
In[68]:= SystemModelPlot[simsensdata,
  {"Food_Production1.P_Land_Yield_Fact_2.Smooth2.Integrator1.y",
   "Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[7]", percentvar}]
```

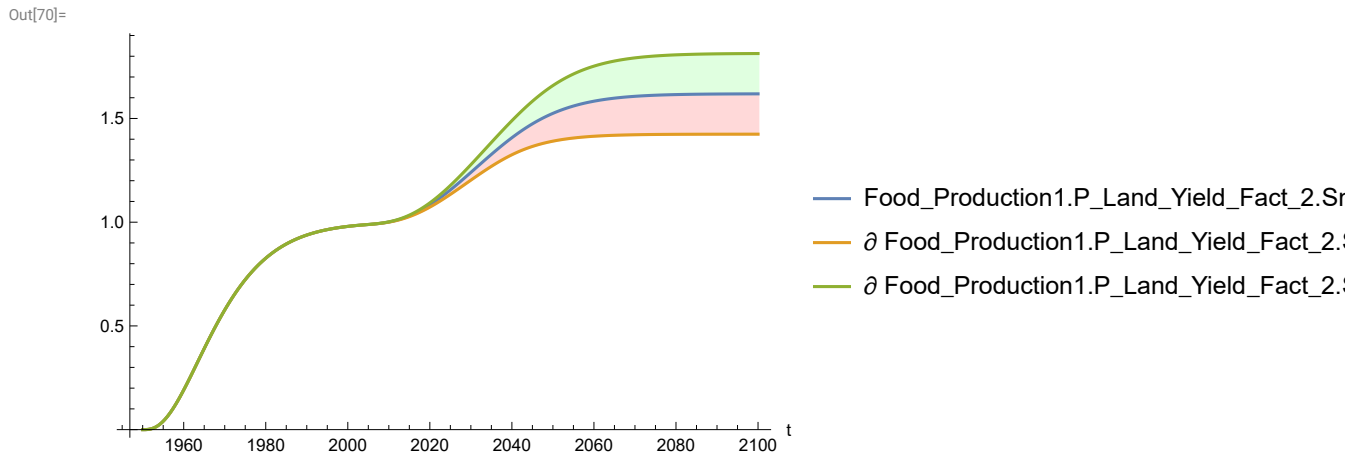


Plot sensitivity of **Food_Production1.P_Land_Yield_Fact_2.Smooth3.Integrator1.y** to Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals

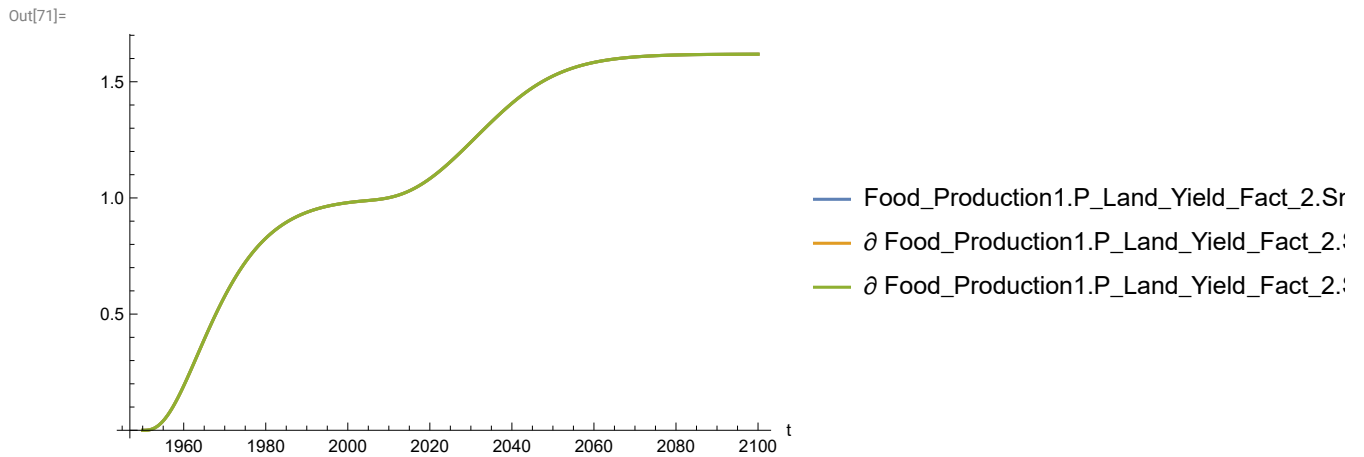
```
In[69]:= SystemModelPlot[simsensdata,
  {"Food_Production1.P_Land_Yield_Fact_2.Smooth3.Integrator1.y",
   "Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[1]", percentvar}]
```



```
In[70]:= SystemModelPlot[simsensdata,
  {"Food_Production1.P_Land_Yield_Fact_2.Smooth3.Integrator1.y",
   "Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[2]", percentvar}]
```

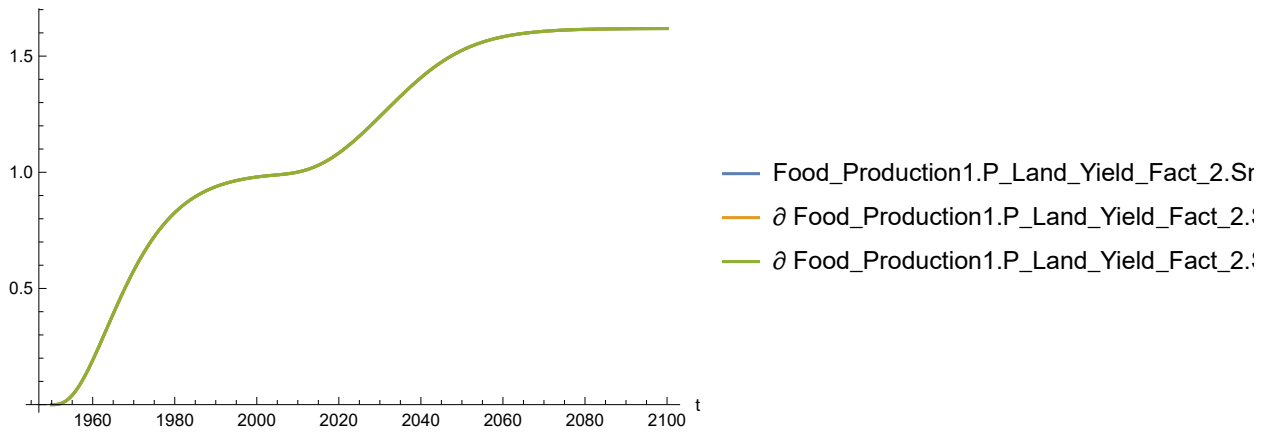


```
In[71]:= SystemModelPlot[simsensdata,
  {"Food_Production1.P_Land_Yield_Fact_2.Smooth3.Integrator1.y",
   "Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[3]", percentvar}]
```



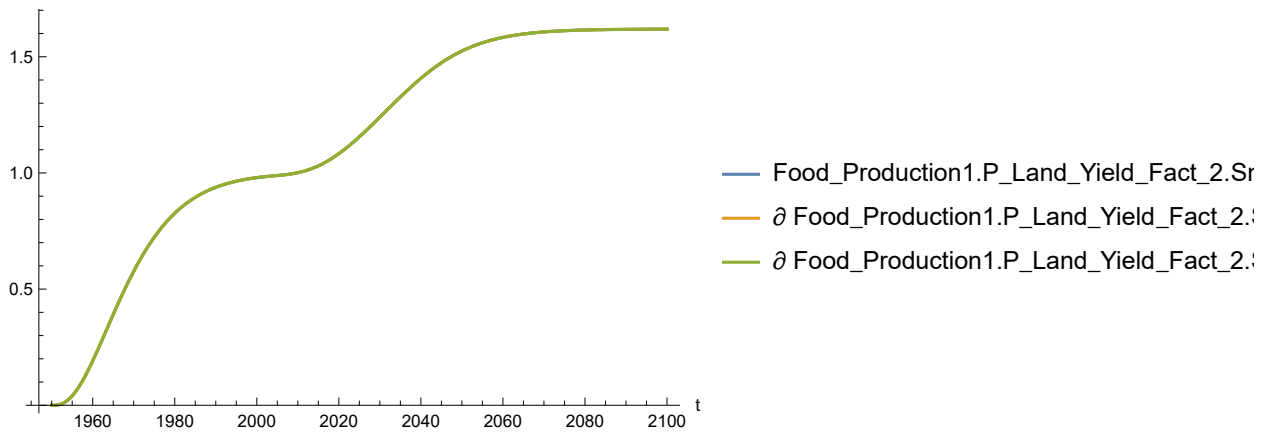
```
In[72]:= SystemModelPlot[simsensdata,
  {"Food_Production1.P_Land_Yield_Fact_2.Smooth3.Integrator1.y",
   "Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[4]", percentvar}]
```

Out[72]=

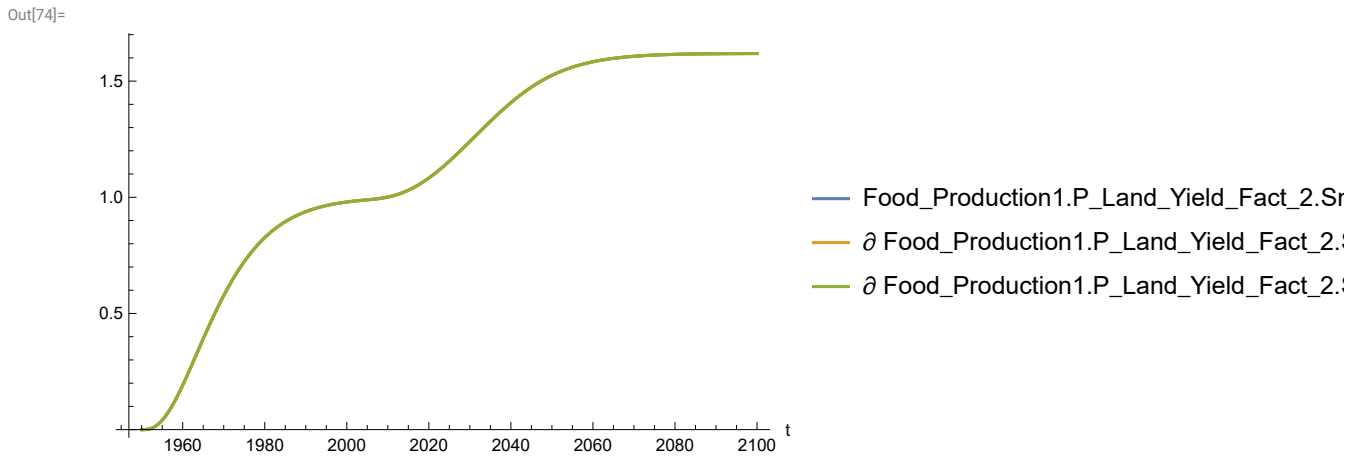


```
In[73]:= SystemModelPlot[simsensdata,
  {"Food_Production1.P_Land_Yield_Fact_2.Smooth3.Integrator1.y",
   "Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[5]", percentvar}]
```

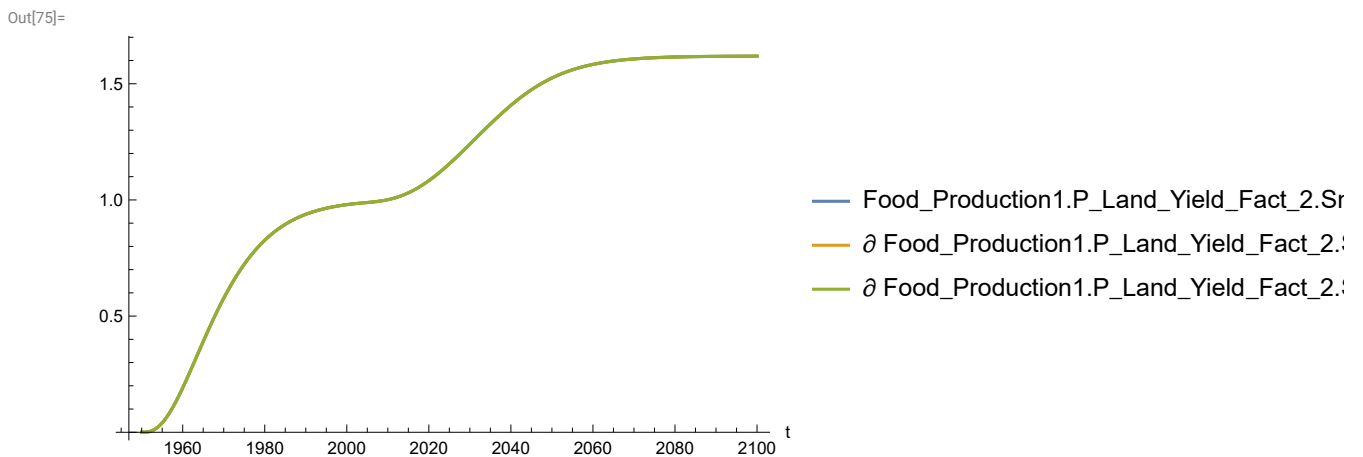
Out[73]=



```
In[74]:= SystemModelPlot[simsensdata,
  {"Food_Production1.P_Land_Yield_Fact_2.Smooth3.Integrator1.y",
   "Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[6]", percentvar}]
```



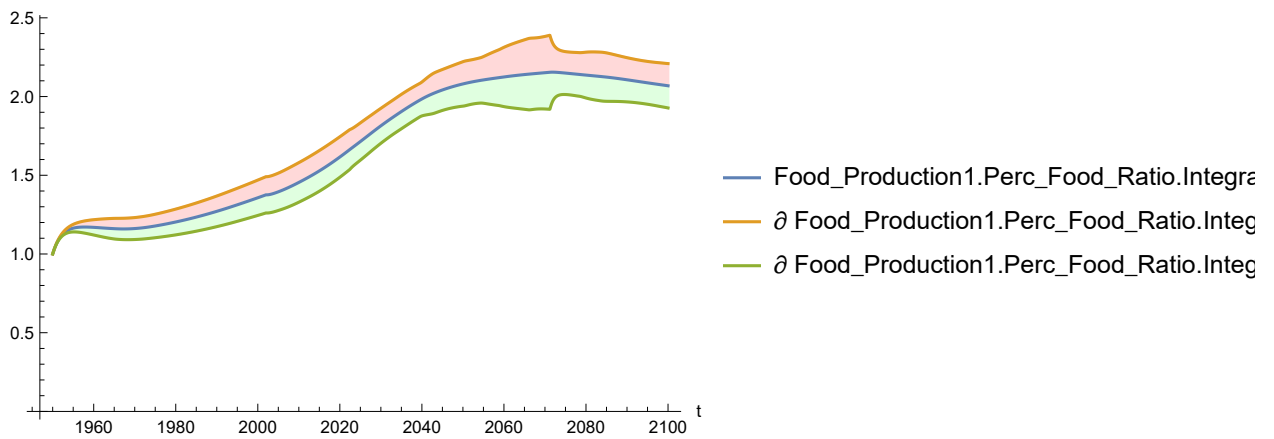
```
In[75]:= SystemModelPlot[simsensdata,
  {"Food_Production1.P_Land_Yield_Fact_2.Smooth3.Integrator1.y",
   "Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[7]", percentvar}]
```



Plot sensitivity of **Food_Production1.Perc_Food_Ratio.Integrator1.y** to **Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals**

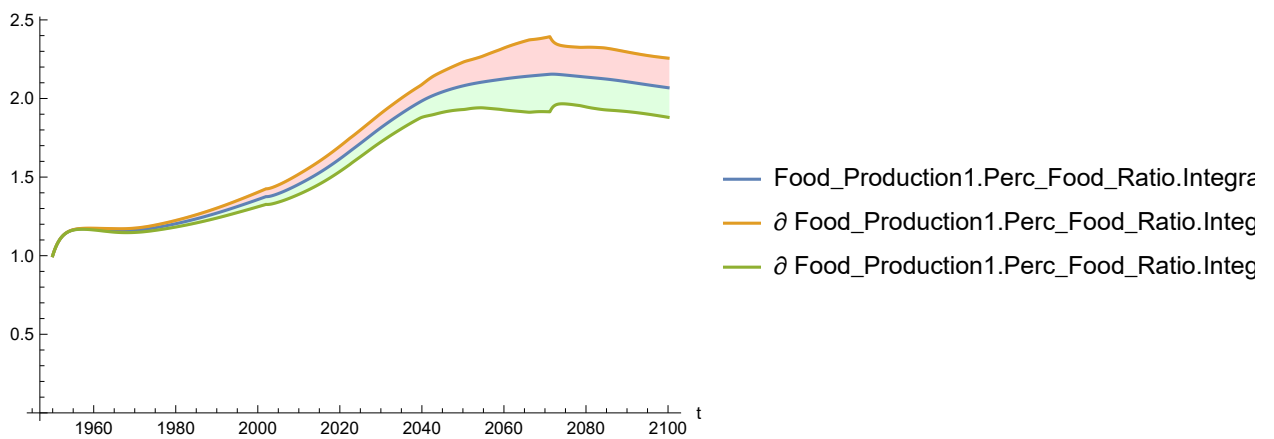
```
In[76]:= SystemModelPlot[simsensdata, {"Food_Production1.Perc_Food_Ratio.Integrator1.y",
"Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[1]", percentvar}]
```

Out[76]=



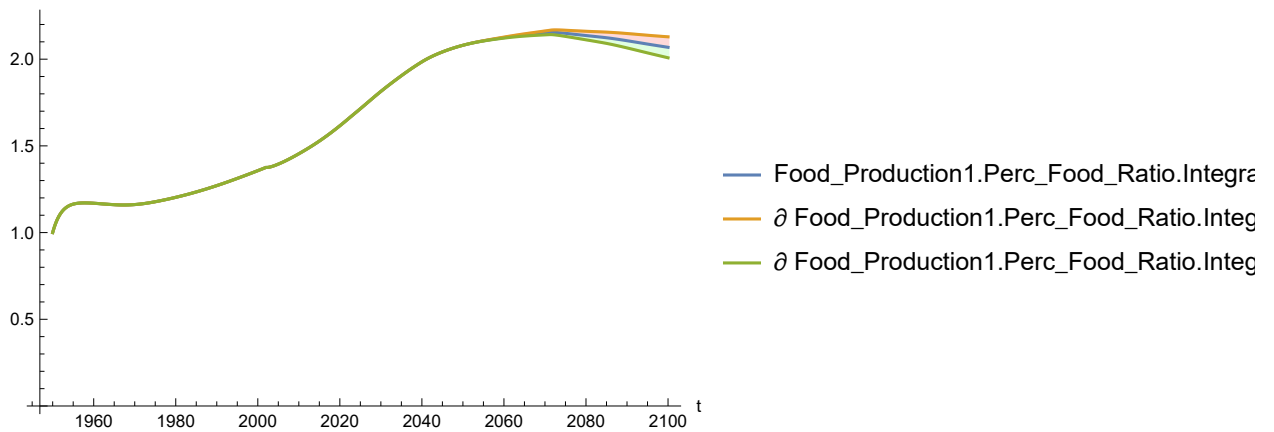
```
In[77]:= SystemModelPlot[simsensdata, {"Food_Production1.Perc_Food_Ratio.Integrator1.y",
"Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[2]", percentvar}]
```

Out[77]=



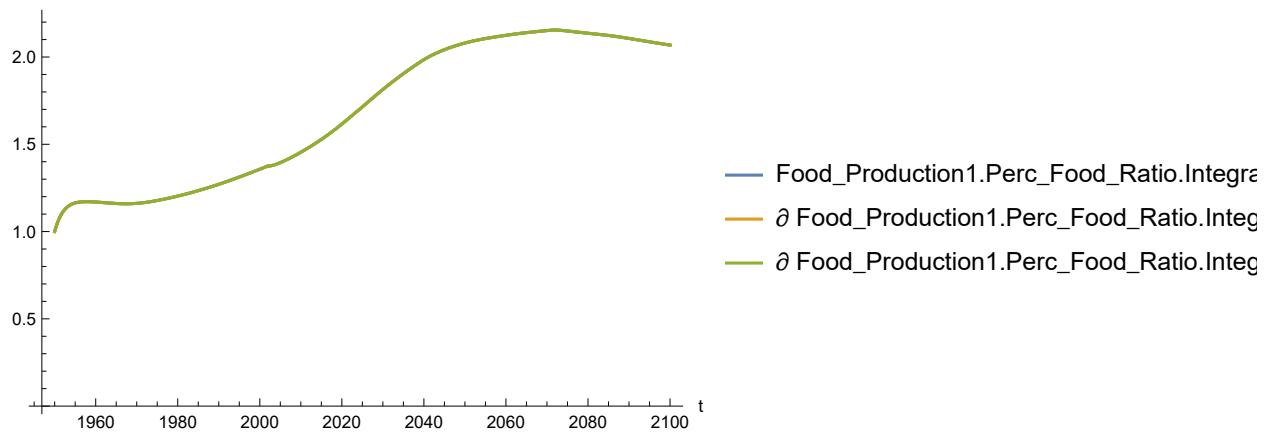
```
In[78]:= SystemModelPlot[simsensdata, {"Food_Production1.Perc_Food_Ratio.Integrator1.y",
"Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[3]", percentvar}]
```

Out[78]=



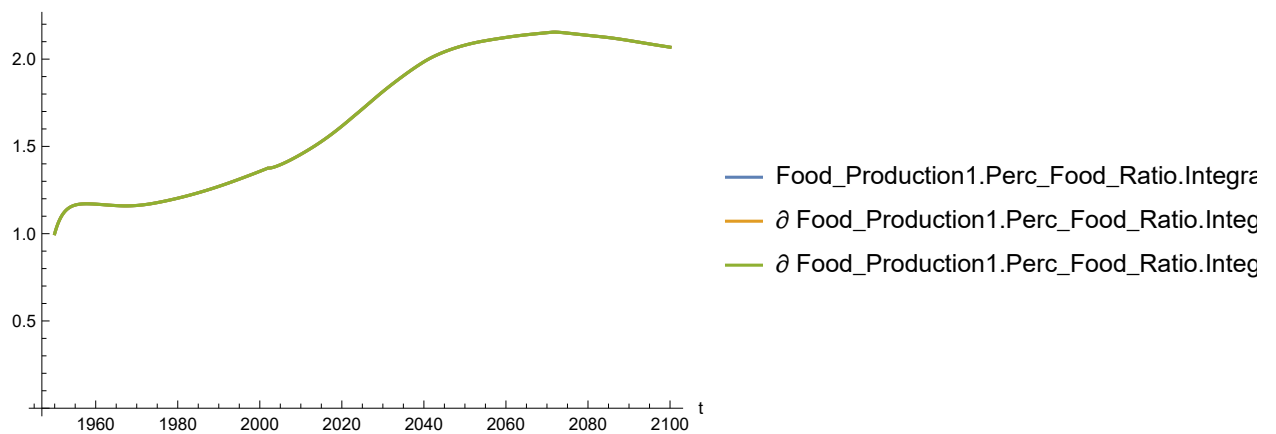
```
In[79]:= SystemModelPlot[simsensdata, {"Food_Production1.Perc_Food_Ratio.Integrator1.y",
"Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[4]", percentvar}]
```

Out[79]=



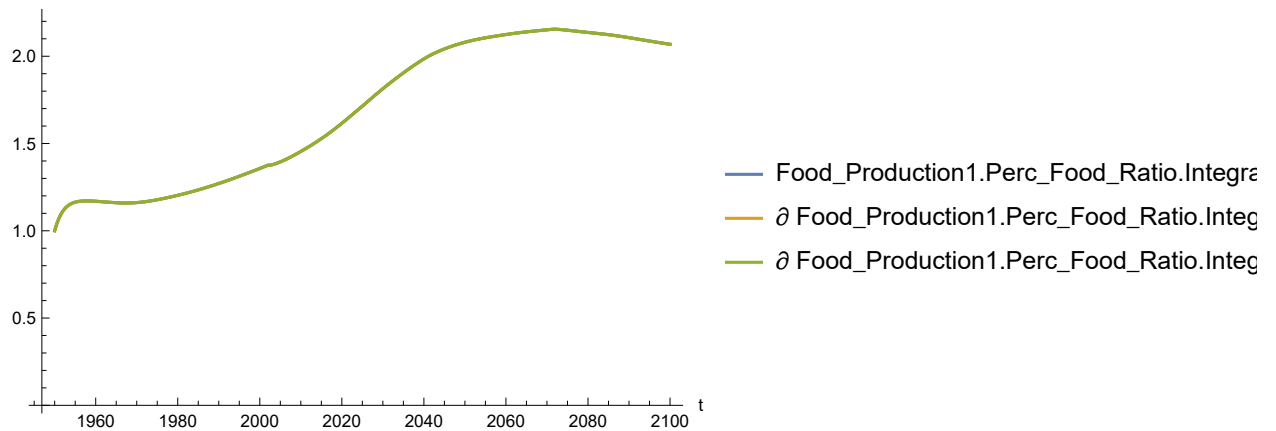
```
In[80]:= SystemModelPlot[simsensdata, {"Food_Production1.Perc_Food_Ratio.Integrator1.y",
"Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[5]", percentvar}]
```

Out[80]=



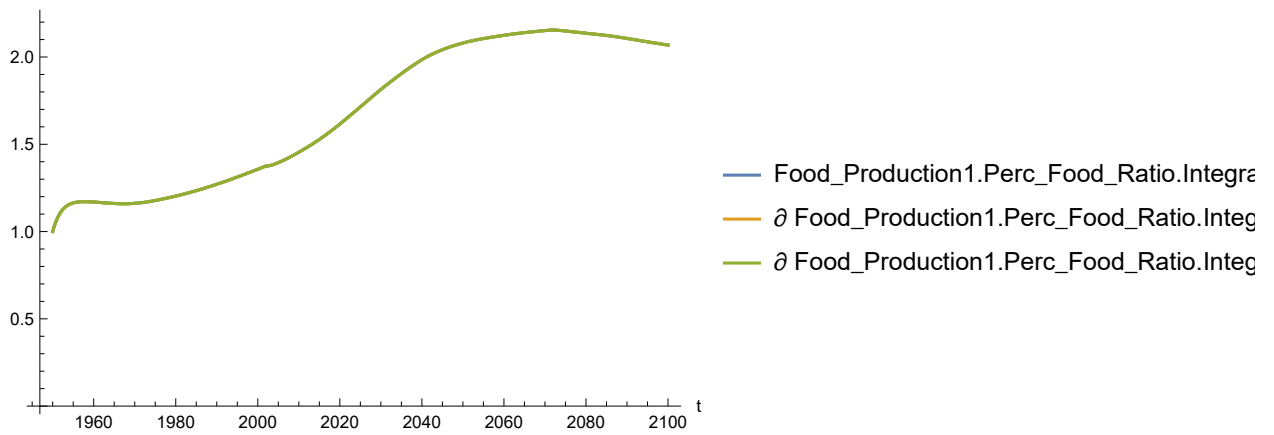
```
In[81]:= SystemModelPlot[simsensdata, {"Food_Production1.Perc_Food_Ratio.Integrator1.y",
"Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[6]", percentvar}]
```

Out[81]=




```
In[82]:= SystemModelPlot[simsensdata, {"Food_Production1.Perc_Food_Ratio.Integrator1.y",
"Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[7]", percentvar}]
```

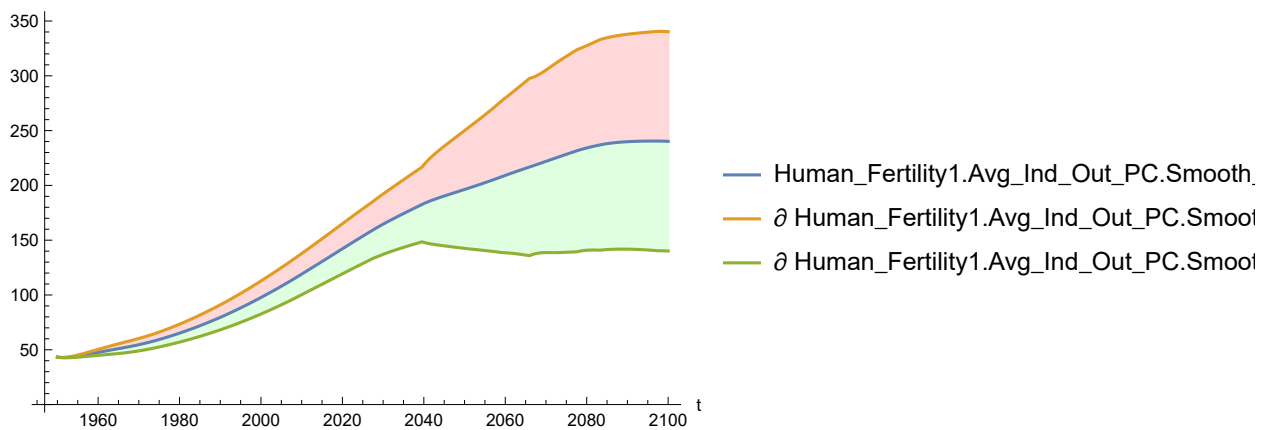
Out[82]=



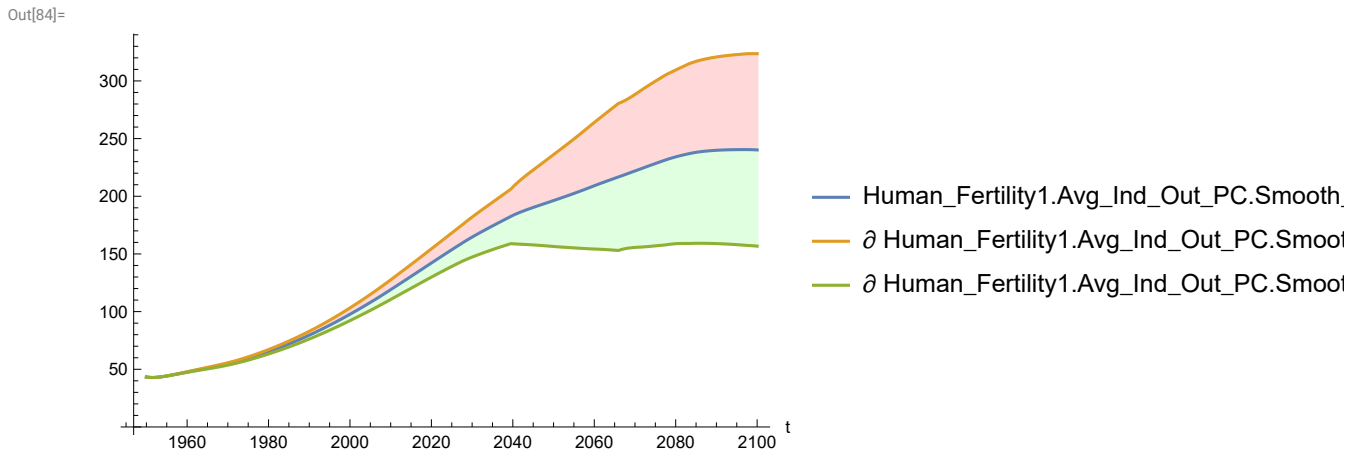
Plot the sensitivity of `Human_Fertility1.Avg_Ind_Out_PC.Smooth_of_Input.Integrator1.y` to `Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals`.

```
In[83]:= SystemModelPlot[simsensdata, {"Human_Fertility1.Avg_Ind_Out_PC.Smooth_of_Input.Integrator1.y",
"Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[1]", percentvar}]
```

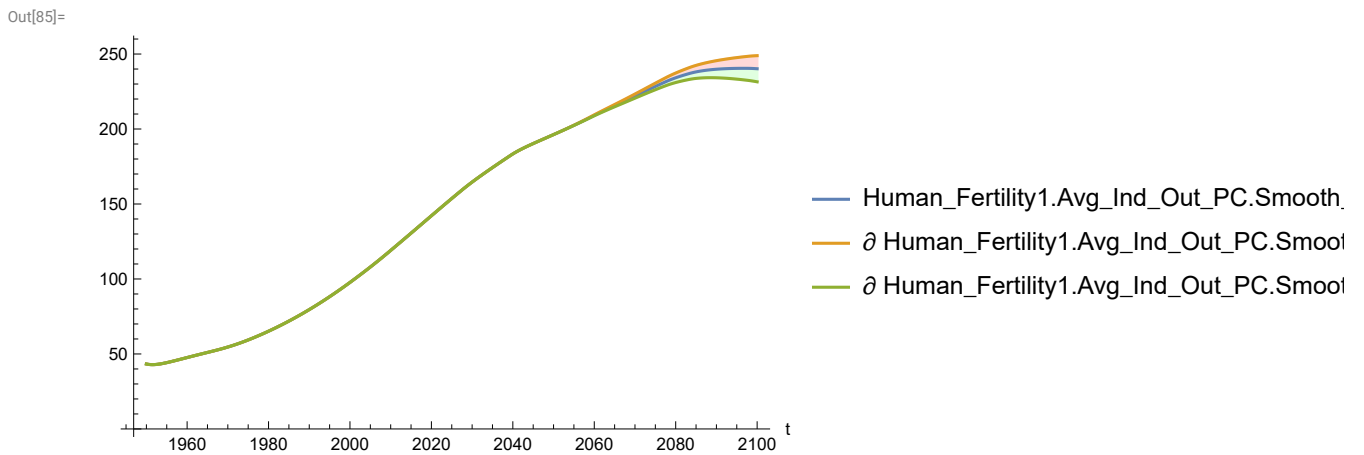
Out[83]=



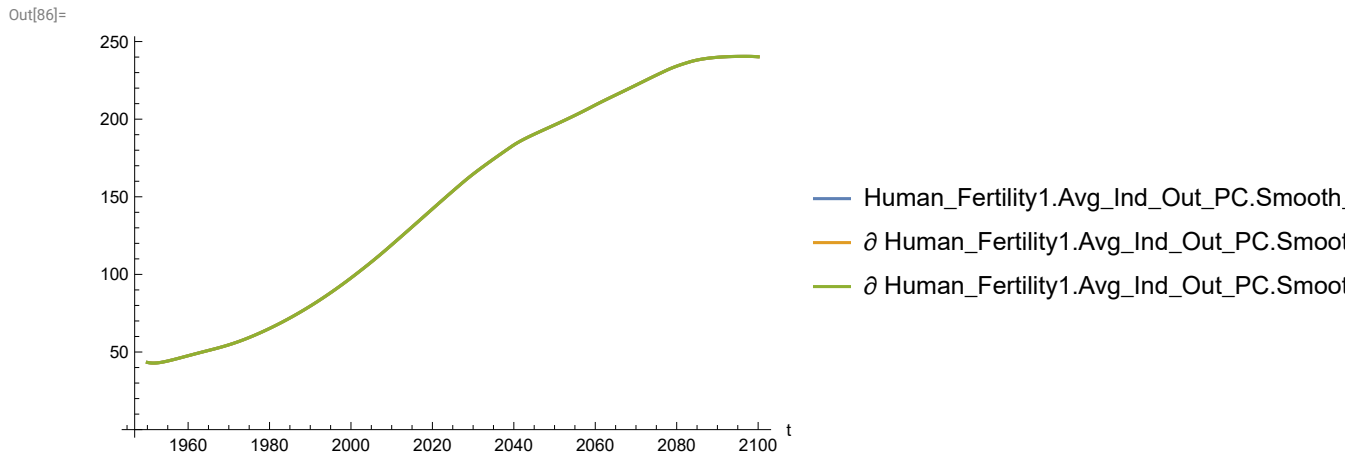
```
In[84]:= SystemModelPlot[simsensdata,
  {"Human_Fertility1.Avg_Ind_Out_PC.Smooth_of_Input.Integrator1.y",
   "Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[2]", percentvar}]
```



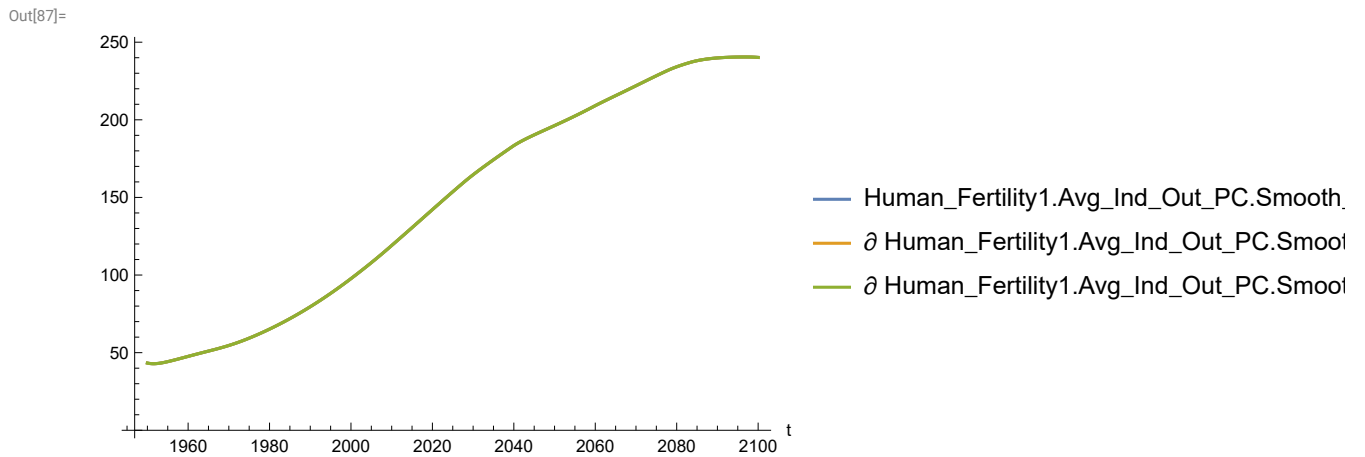
```
In[85]:= SystemModelPlot[simsensdata,
  {"Human_Fertility1.Avg_Ind_Out_PC.Smooth_of_Input.Integrator1.y",
   "Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[3]", percentvar}]
```



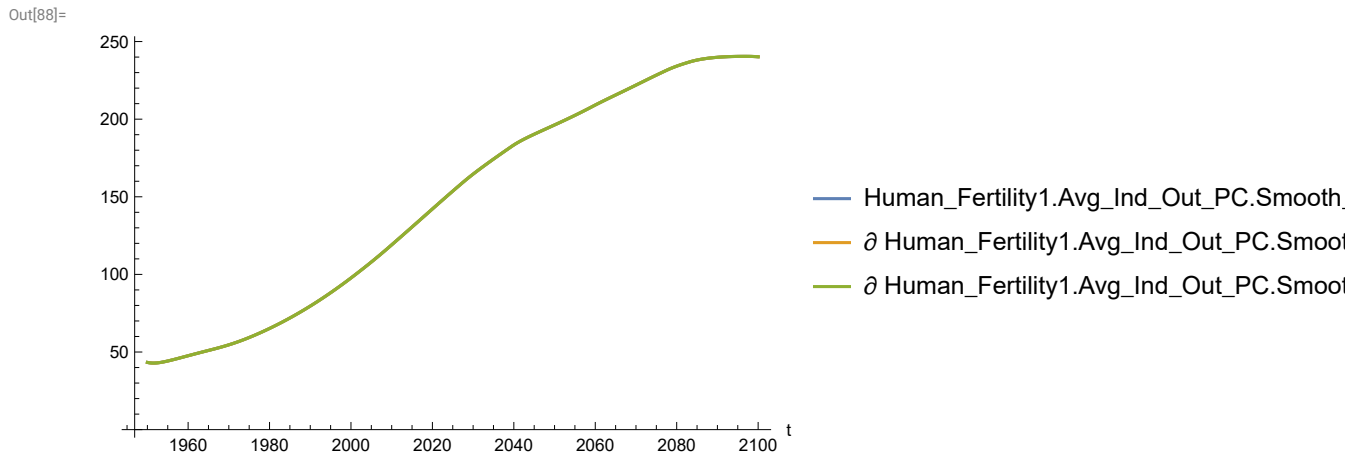
```
In[86]:= SystemModelPlot[simsensdata,
  {"Human_Fertility1.Avg_Ind_Out_PC.Smooth_of_Input.Integrator1.y",
   "Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[4]", percentvar}]
```



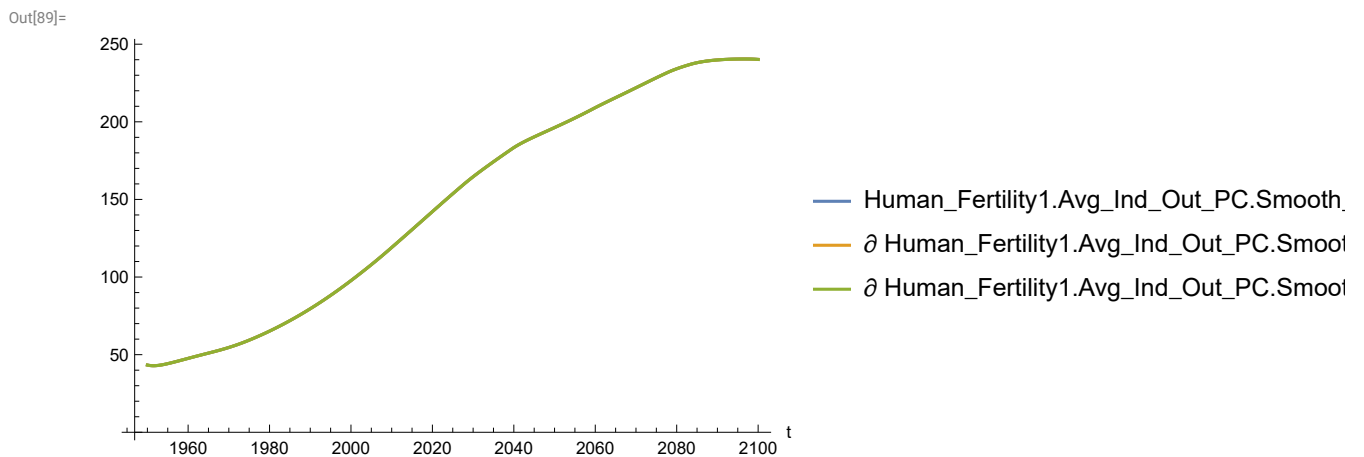
```
In[87]:= SystemModelPlot[simsensdata,
  {"Human_Fertility1.Avg_Ind_Out_PC.Smooth_of_Input.Integrator1.y",
   "Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[5]", percentvar}]
```



```
In[88]:= SystemModelPlot[simsensdata,
  {"Human_Fertility1.Avg_Ind_Out_PC.Smooth_of_Input.Integrator1.y",
   "Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[6]", percentvar}]
```



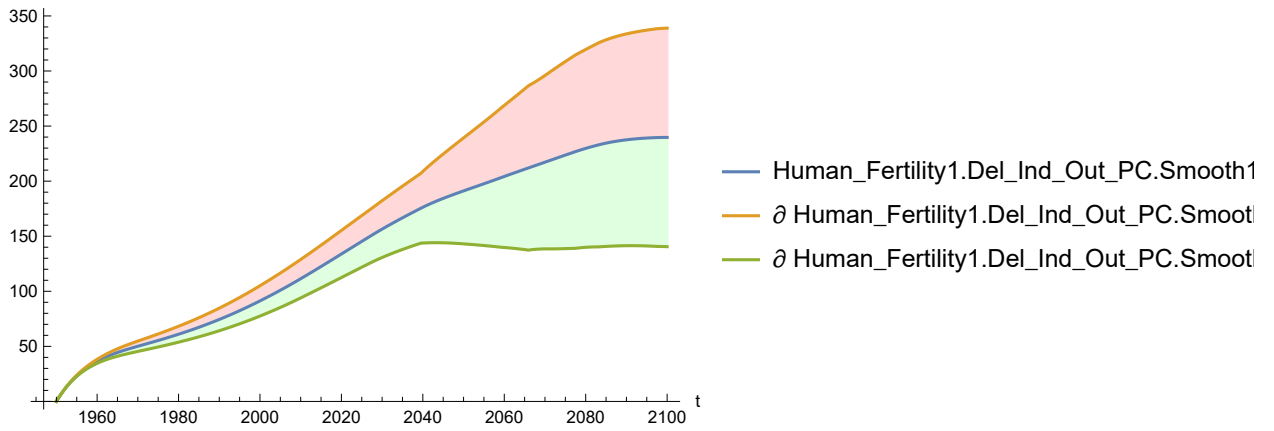
```
In[89]:= SystemModelPlot[simsensdata,
  {"Human_Fertility1.Avg_Ind_Out_PC.Smooth_of_Input.Integrator1.y",
   "Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[7]", percentvar}]
```



Plot the sensitivity of Human_Fertility1.Del_Ind_Out_PC.Smooth1.Integrator1.y to Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals.

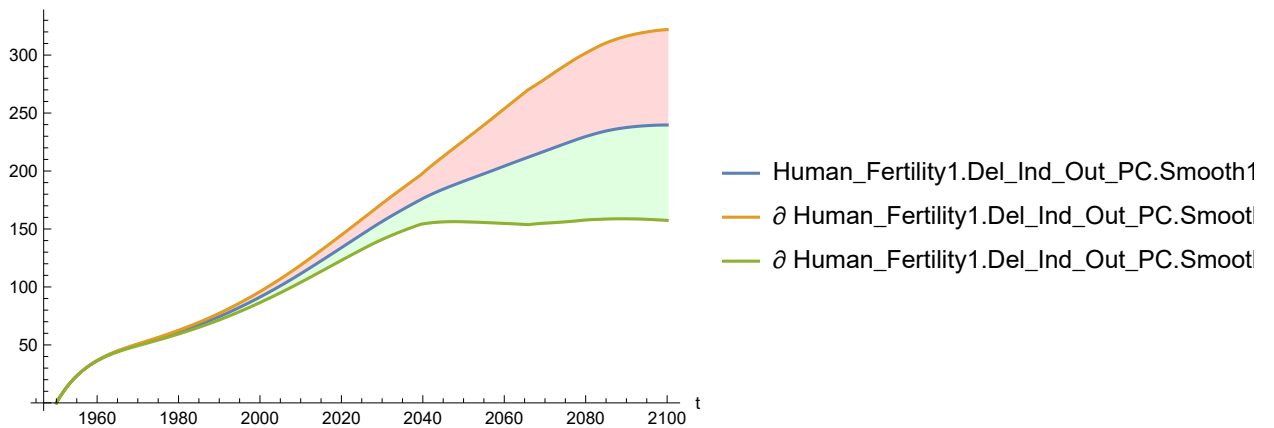
```
In[90]:= SystemModelPlot[simsensdata, {"Human_Fertility1.Del_Ind_Out_PC.Smooth1.Integrator1.y",
"Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[1]", percentvar}]
```

Out[90]=



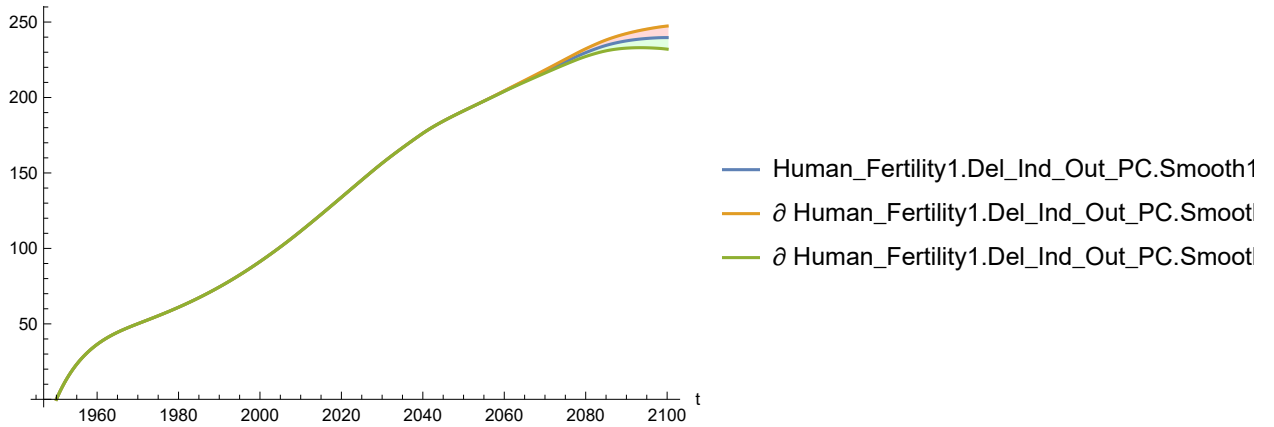
```
In[91]:= SystemModelPlot[simsensdata, {"Human_Fertility1.Del_Ind_Out_PC.Smooth1.Integrator1.y",
"Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[2]", percentvar}]
```

Out[91]=



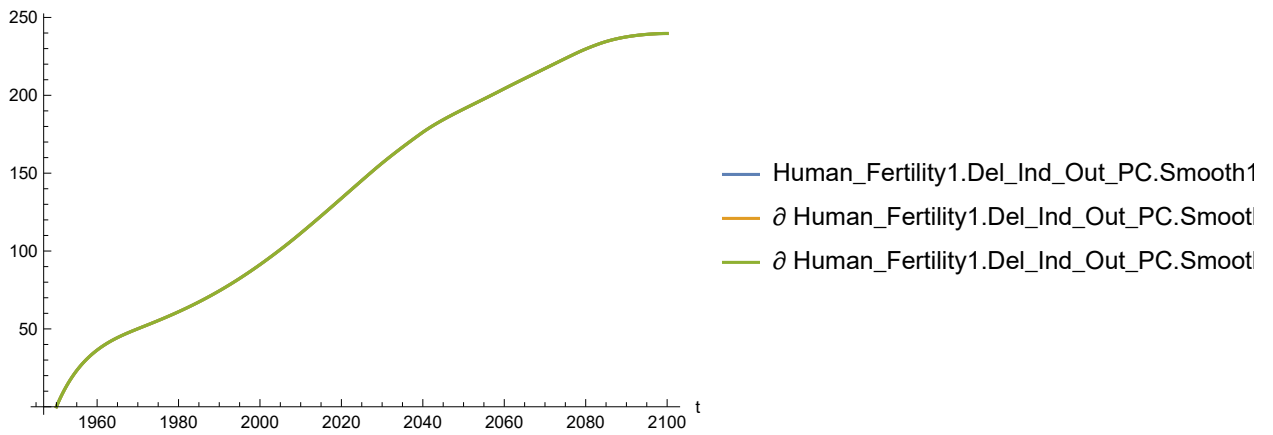
```
In[92]:= SystemModelPlot[simsensdata, {"Human_Fertility1.Del_Ind_Out_PC.Smooth1.Integrator1.y",
"Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[3]", percentvar}]
```

Out[92]=



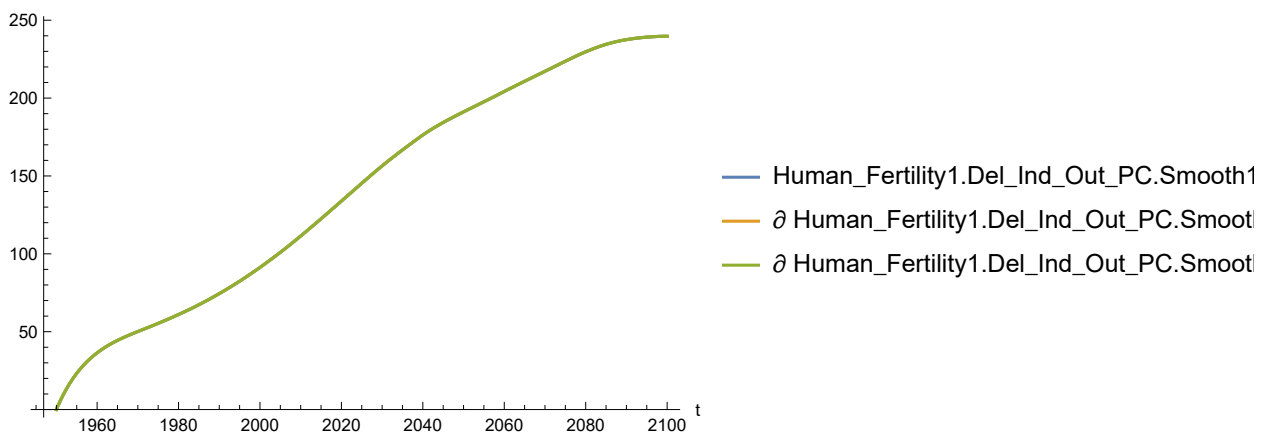
```
In[93]:= SystemModelPlot[simsensdata, {"Human_Fertility1.Del_Ind_Out_PC.Smooth1.Integrator1.y",
"Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[4]", percentvar}]
```

Out[93]=



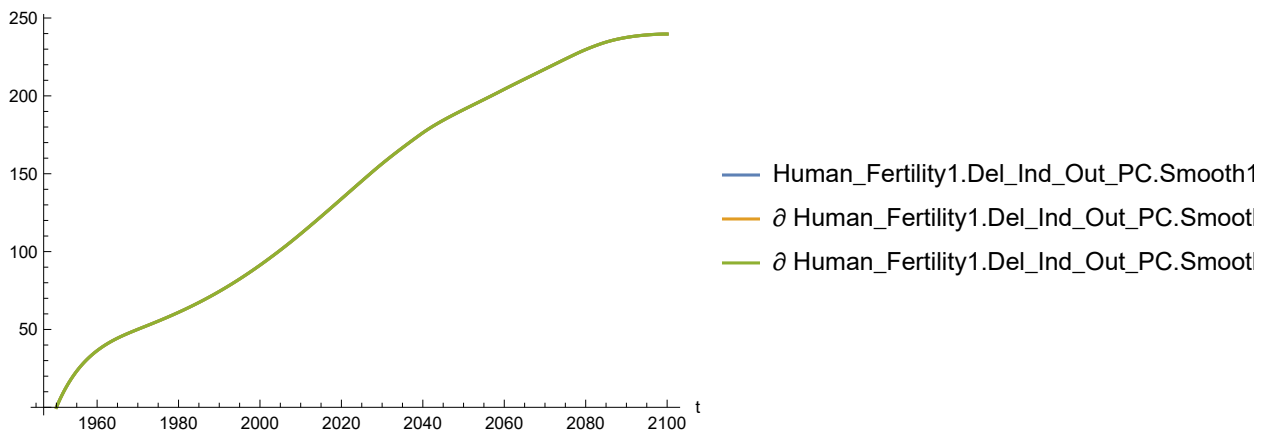
```
In[94]:= SystemModelPlot[simsensdata, {"Human_Fertility1.Del_Ind_Out_PC.Smooth1.Integrator1.y",
"Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[5]", percentvar}]
```

Out[94]=



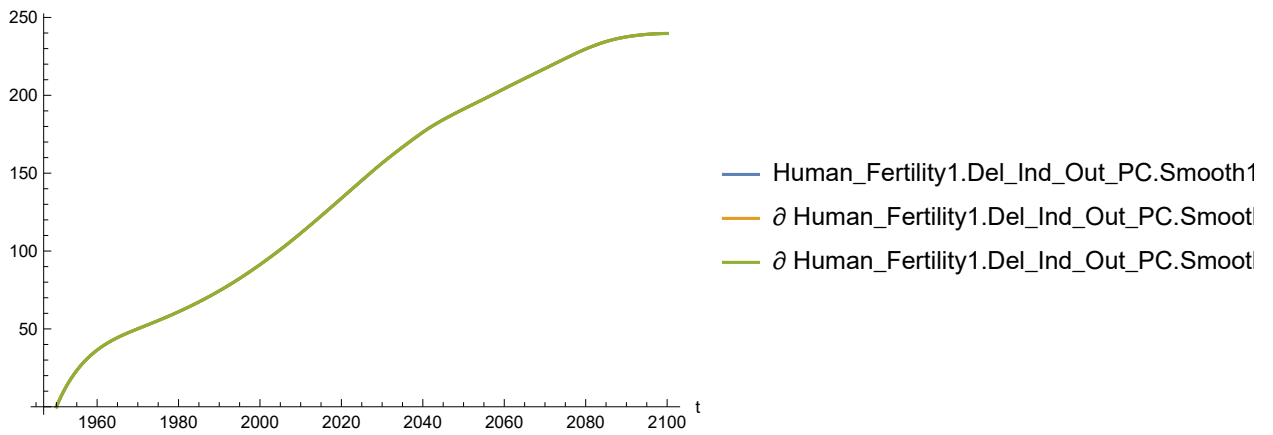
```
In[95]:= SystemModelPlot[simsensdata, {"Human_Fertility1.Del_Ind_Out_PC.Smooth1.Integrator1.y",
"Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[6]", percentvar}]
```

Out[95]=



```
In[96]:= SystemModelPlot[simsensdata, {"Human_Fertility1.Del_Ind_Out_PC.Smooth1.Integrator1.y",
"Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[7]", percentvar}]
```

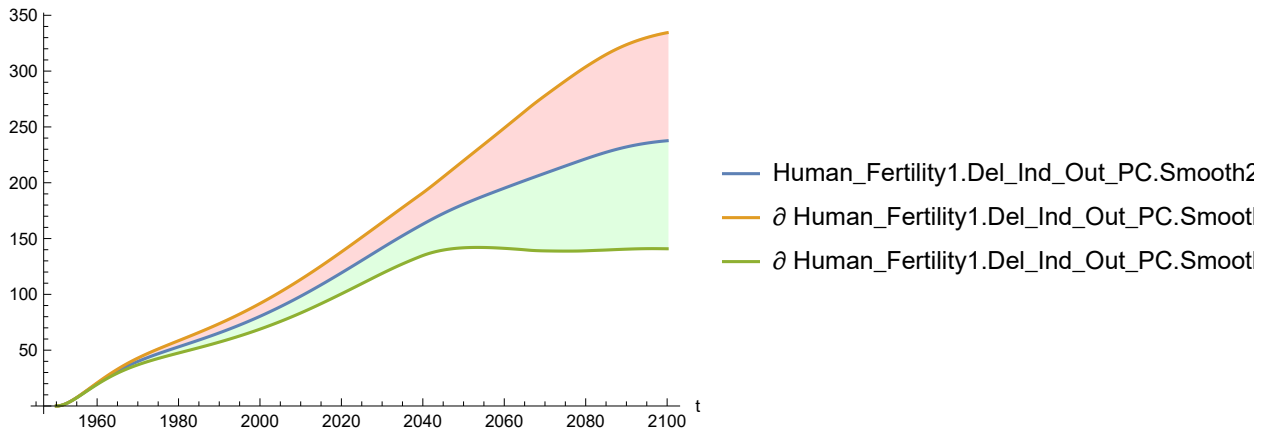
Out[96]=



Plot the sensitivity of Human_Fertility1.Del_Ind_Out_PC.Smooth2.Integrator1.y to Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals.

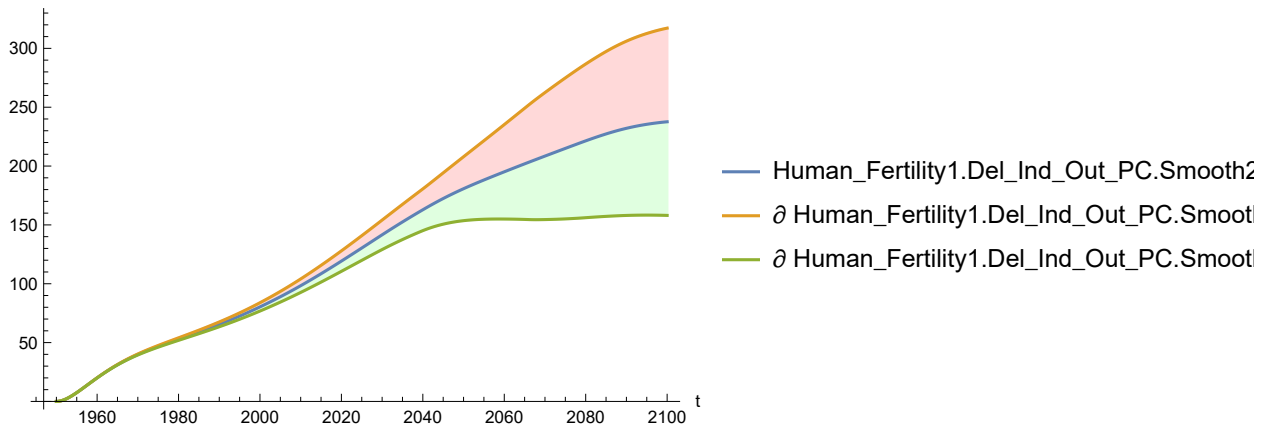
```
In[97]:= SystemModelPlot[simsensdata, {"Human_Fertility1.Del_Ind_Out_PC.Smooth2.Integrator1.y",
"Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[1]", percentvar}]
```

Out[97]=



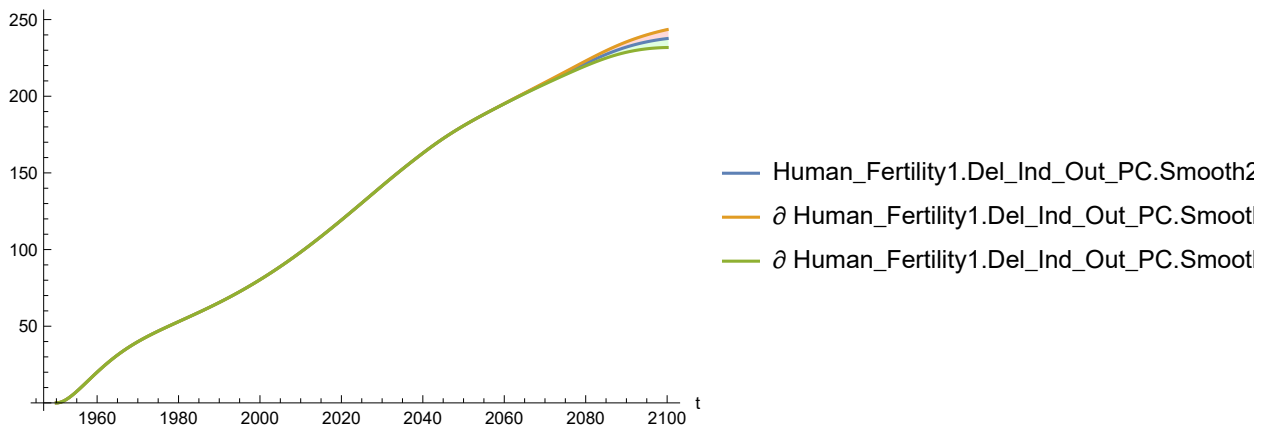
```
In[98]:= SystemModelPlot[simsensdata, {"Human_Fertility1.Del_Ind_Out_PC.Smooth2.Integrator1.y",
"Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[2]", percentvar}]
```

Out[98]=



```
In[99]:= SystemModelPlot[simsensdata, {"Human_Fertility1.Del_Ind_Out_PC.Smooth2.Integrator1.y",
"Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[3]", percentvar}]
```

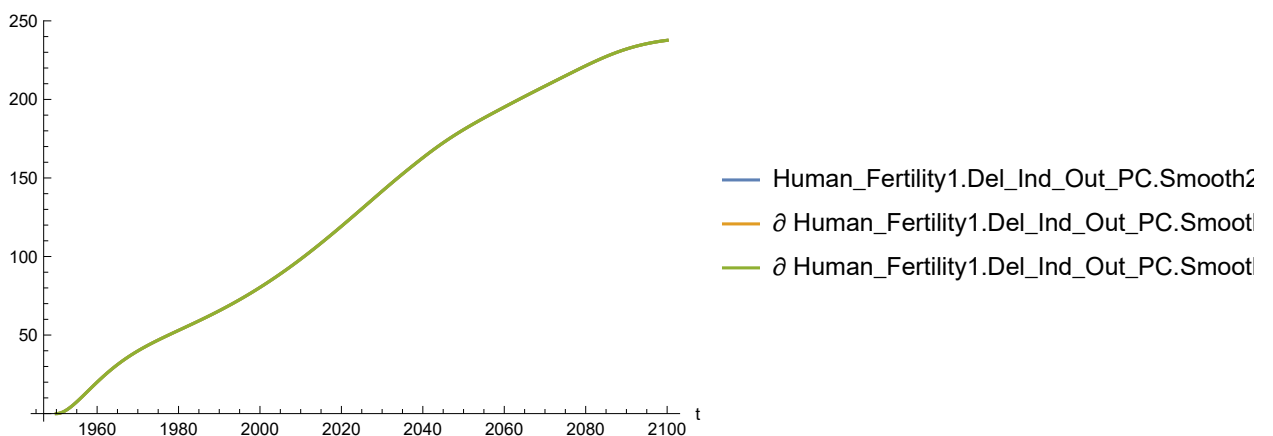
Out[99]=



In[100]=

```
SystemModelPlot[simsensdata, {"Human_Fertility1.Del_Ind_Out_PC.Smooth2.Integrator1.y",
"Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[4]", percentvar}]
```

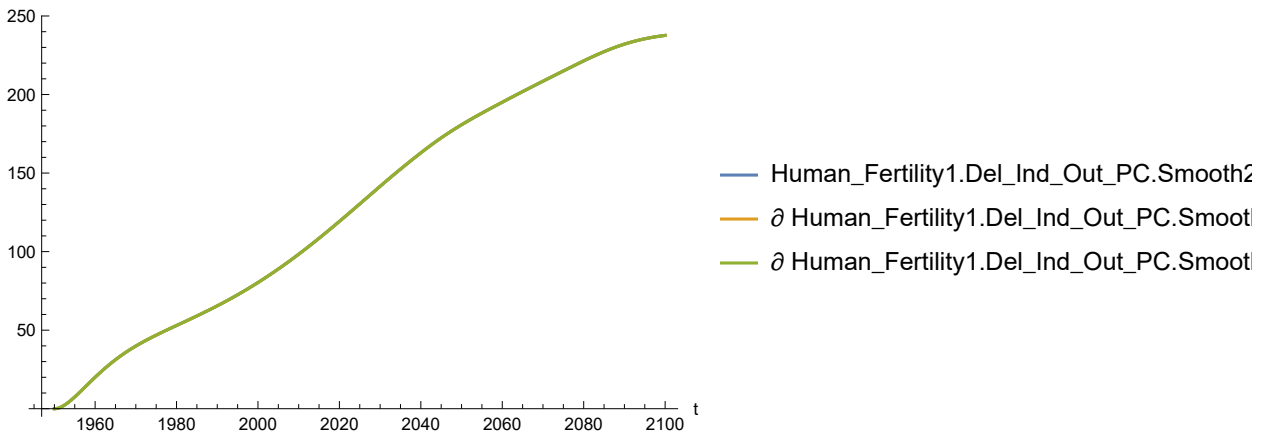
Out[100]=



In[101]:=

```
SystemModelPlot[simsensdata, {"Human_Fertility1.Del_Ind_Out_PC.Smooth2.Integrator1.y",
"Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[5]", percentvar}]
```

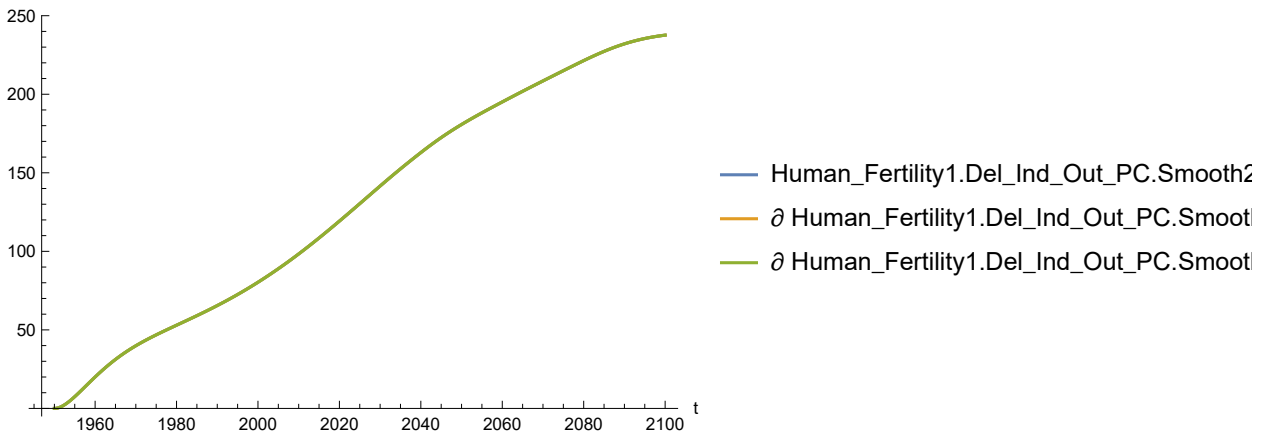
Out[101]=



In[102]:=

```
SystemModelPlot[simsensdata, {"Human_Fertility1.Del_Ind_Out_PC.Smooth2.Integrator1.y",
"Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[6]", percentvar}]
```

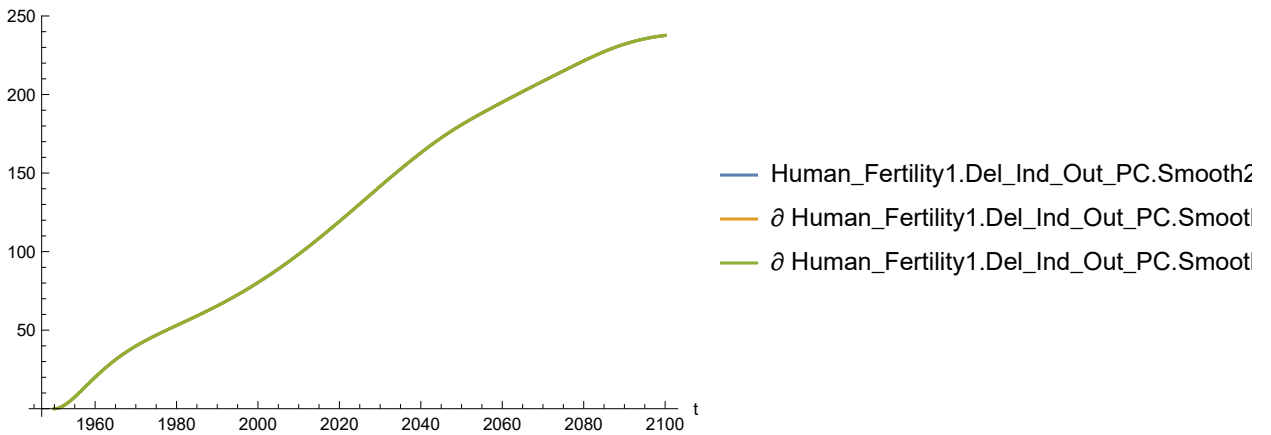
Out[102]=



In[103]:=

```
SystemModelPlot[simsensdata, {"Human_Fertility1.Del_Ind_Out_PC.Smooth2.Integrator1.y",
"Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[7]", percentvar}]
```

Out[103]=

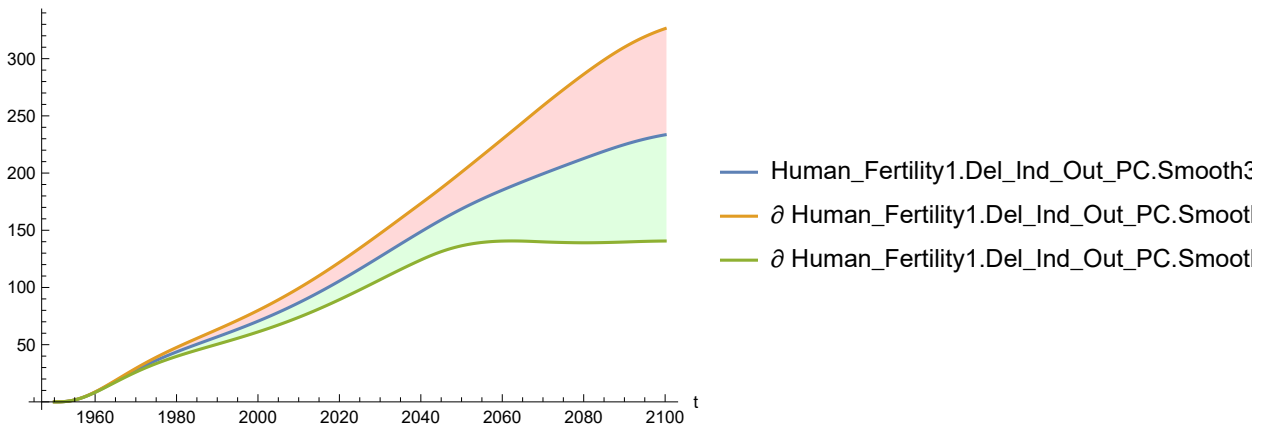


Plot the sensitivity of Human_Fertility1.Del_Ind_Out_PC.Smooth3.Integrator1.y to Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals.

In[104]:=

```
SystemModelPlot[simsensdata, {"Human_Fertility1.Del_Ind_Out_PC.Smooth3.Integrator1.y",
"Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[1]", percentvar}]
```

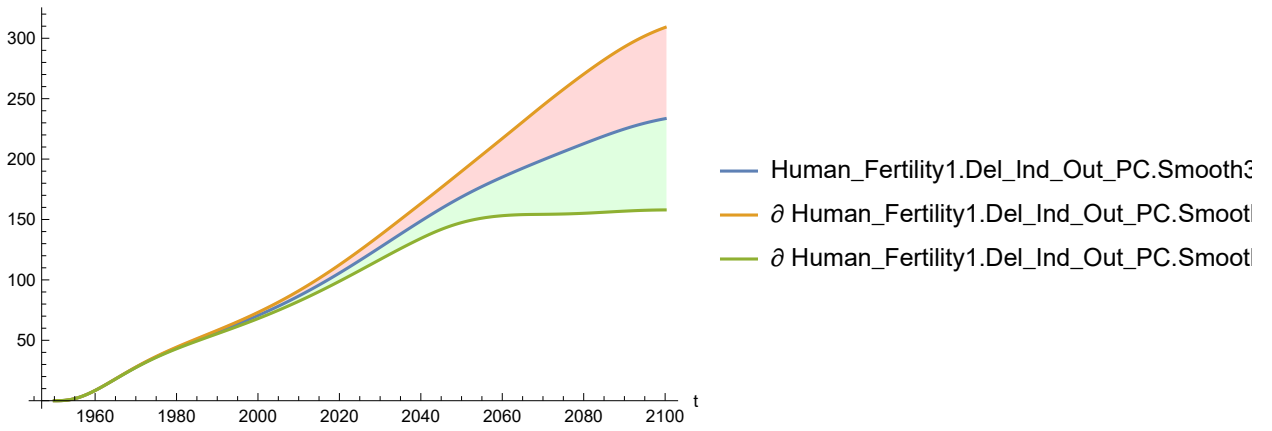
Out[104]=



In[105]:=

```
SystemModelPlot[simsensdata, {"Human_Fertility1.Del_Ind_Out_PC.Smooth3.Integrator1.y",
"Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[2]", percentvar}]
```

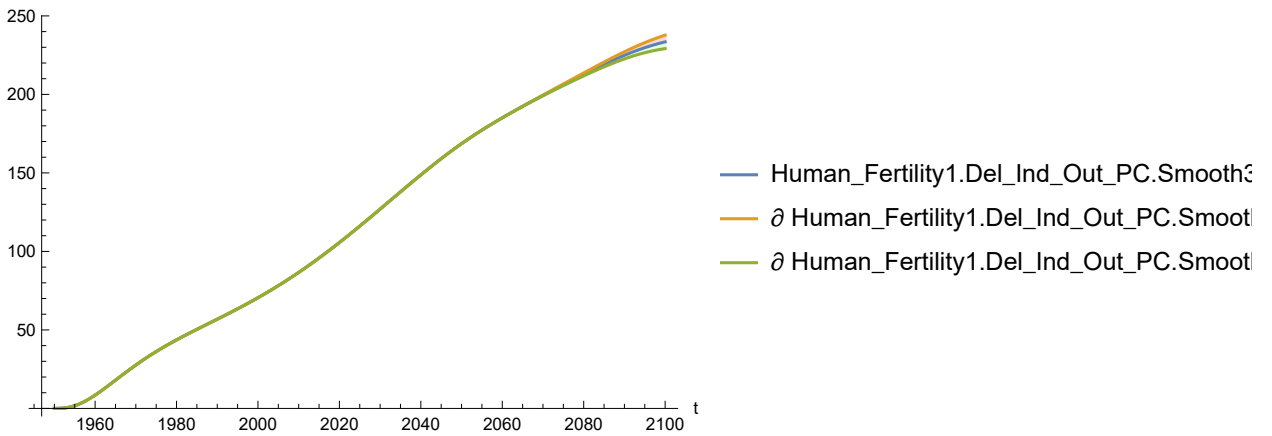
Out[105]=



In[106]:=

```
SystemModelPlot[simsensdata, {"Human_Fertility1.Del_Ind_Out_PC.Smooth3.Integrator1.y",
"Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[3]", percentvar}]
```

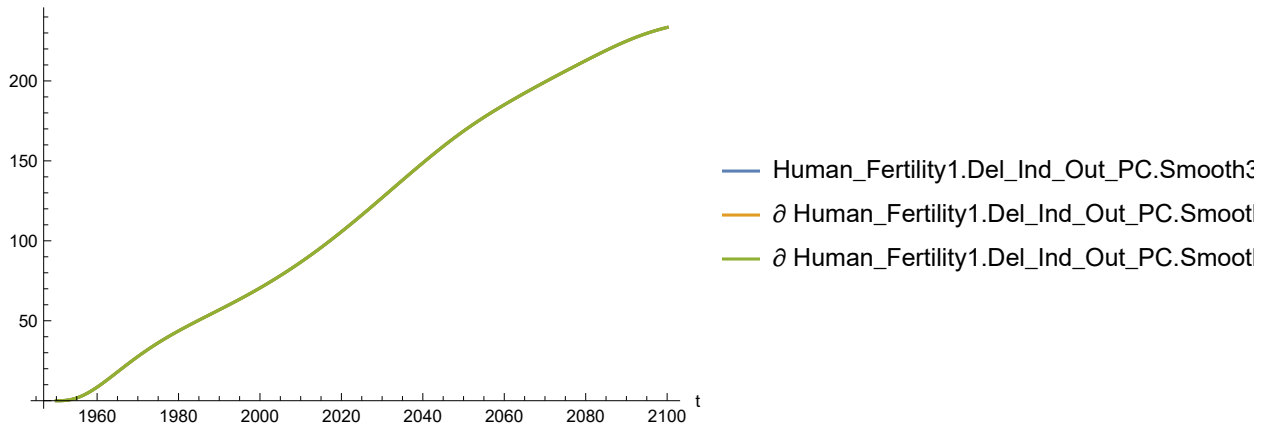
Out[106]=



In[107]:=

```
SystemModelPlot[simsensdata, {"Human_Fertility1.Del_Ind_Out_PC.Smooth3.Integrator1.y",
"Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[4]", percentvar}]
```

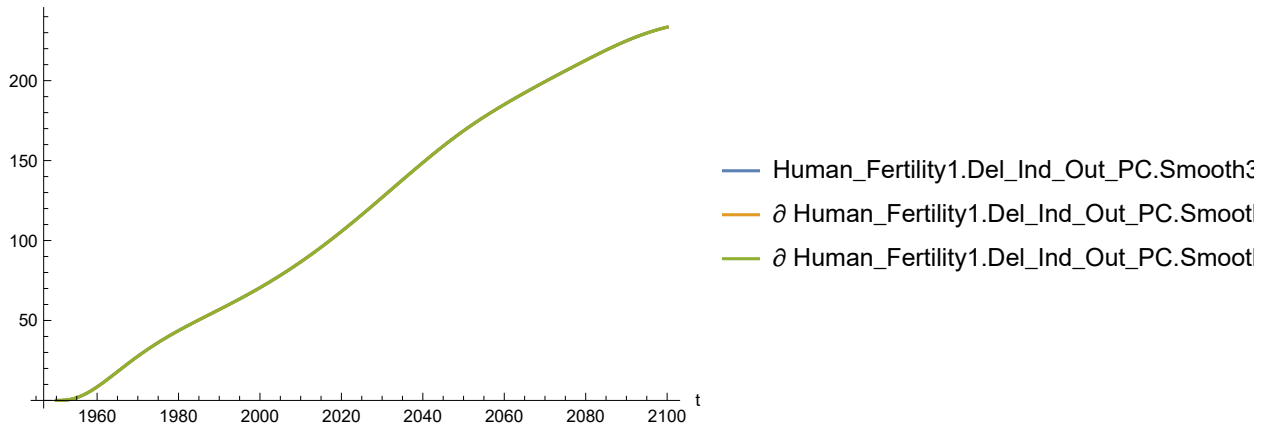
Out[107]=



In[108]:=

```
SystemModelPlot[simsensdata, {"Human_Fertility1.Del_Ind_Out_PC.Smooth3.Integrator1.y",
"Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[5]", percentvar}]
```

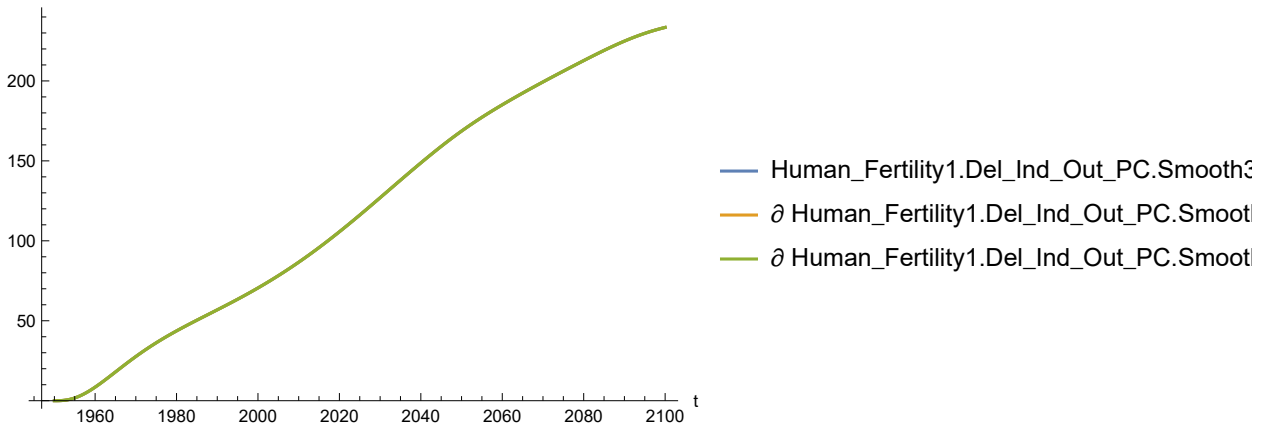
Out[108]=



In[109]:=

```
SystemModelPlot[simsensdata, {"Human_Fertility1.Del_Ind_Out_PC.Smooth3.Integrator1.y",
    "Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[6]", percentvar}]
```

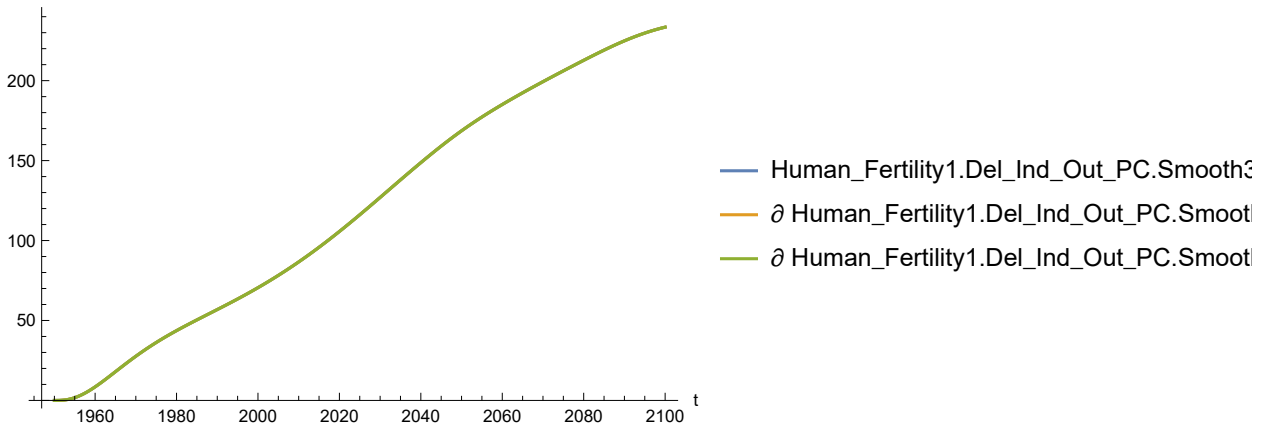
Out[109]=



In[110]:=

```
SystemModelPlot[simsensdata, {"Human_Fertility1.Del_Ind_Out_PC.Smooth3.Integrator1.y",
    "Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[7]", percentvar}]
```

Out[110]=

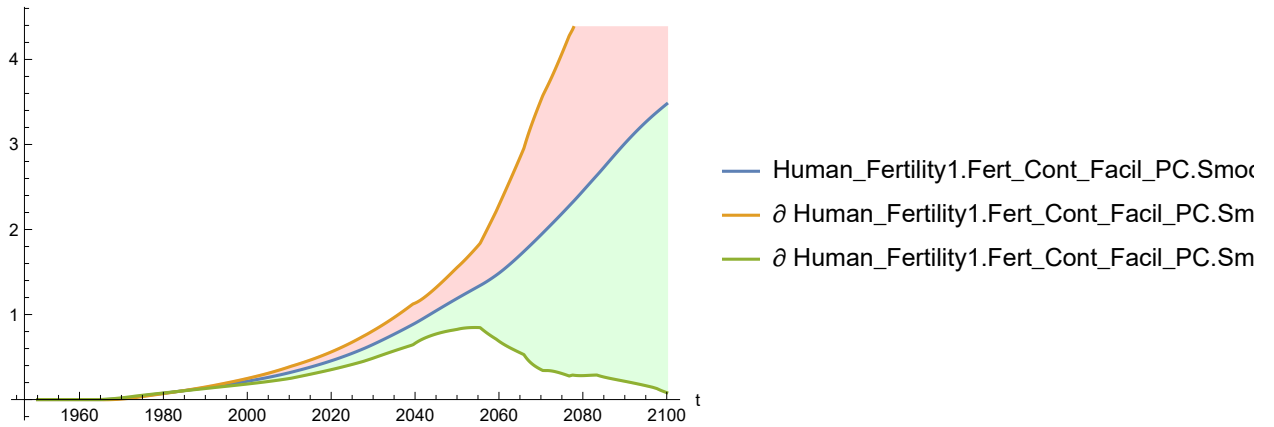


Plot the sensitivity of Human_Fertility1.Fert_Cont_Facil_PC.Smooth1.Integrator1.y to Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals.

In[111]:=

```
SystemModelPlot[simsensdata,
  {"Human_Fertility1.Fert_Cont_Facil_PC.Smooth1.Integrator1.y",
   "Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[1]", percentvar}]
```

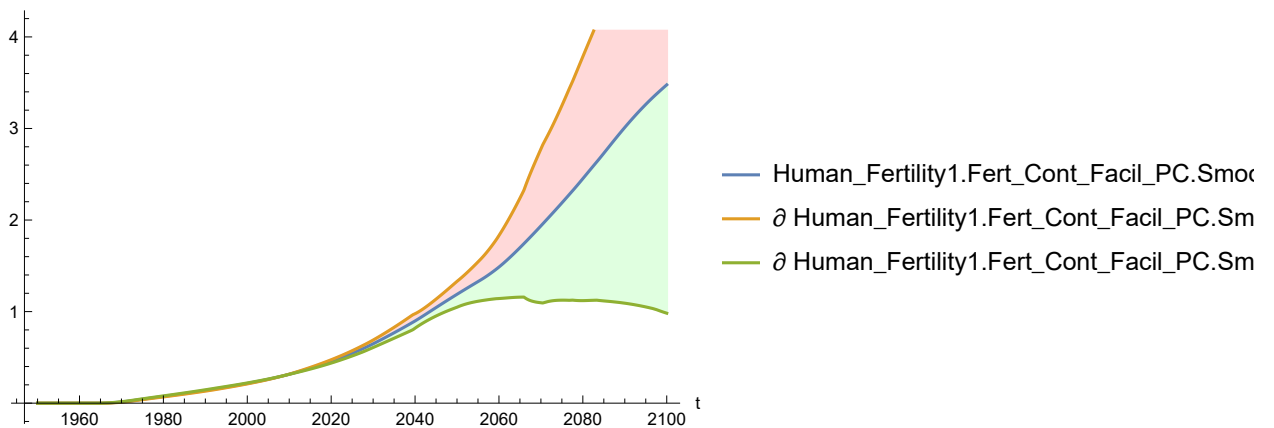
Out[111]=



In[112]:=

```
SystemModelPlot[simsensdata,
  {"Human_Fertility1.Fert_Cont_Facil_PC.Smooth1.Integrator1.y",
   "Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[2]", percentvar}]
```

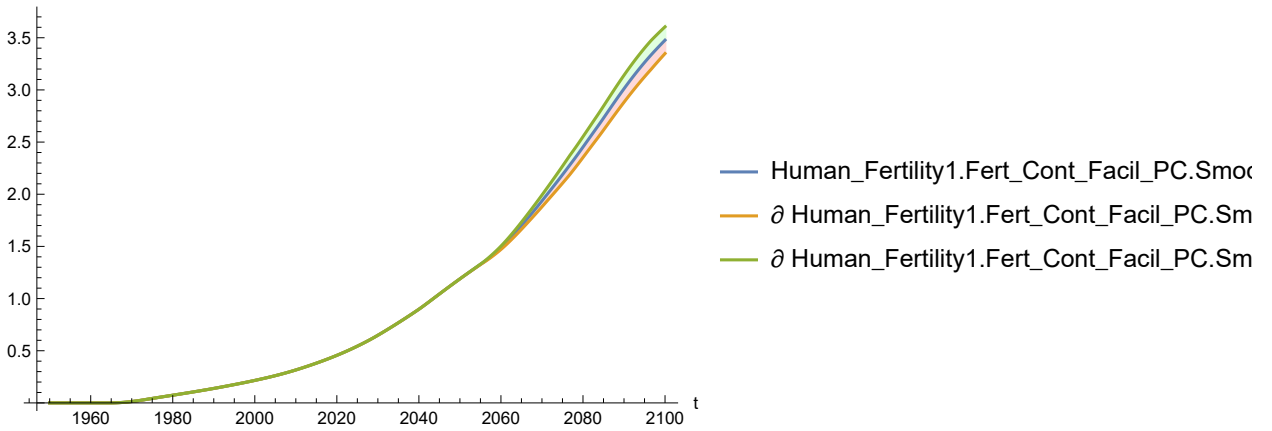
Out[112]=



In[113]:=

```
SystemModelPlot[simsensdata,
  {"Human_Fertility1.Fert_Cont_Facil_PC.Smooth1.Integrator1.y",
   "Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[3]", percentvar}]
```

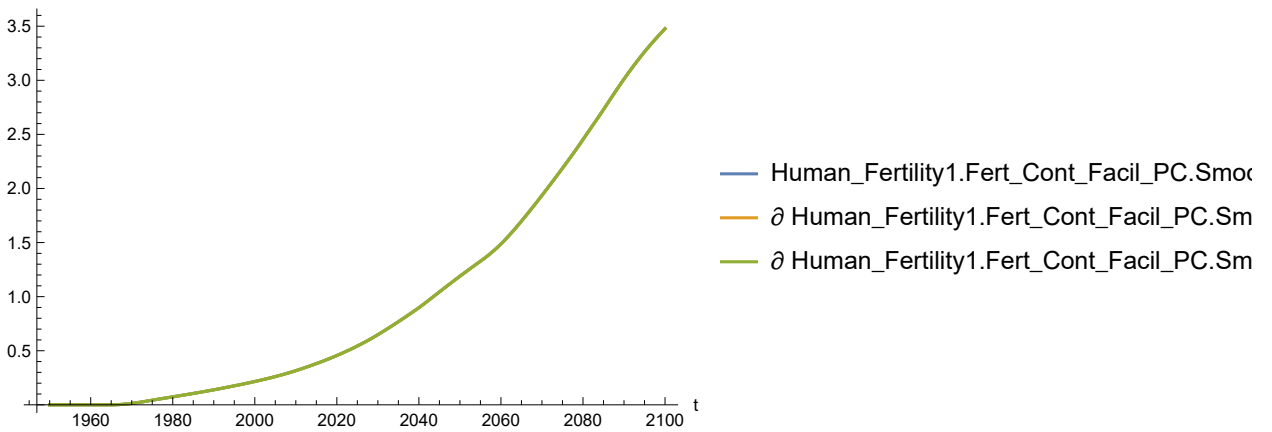
Out[113]=



In[114]:=

```
SystemModelPlot[simsensdata,
  {"Human_Fertility1.Fert_Cont_Facil_PC.Smooth1.Integrator1.y",
   "Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[4]", percentvar}]
```

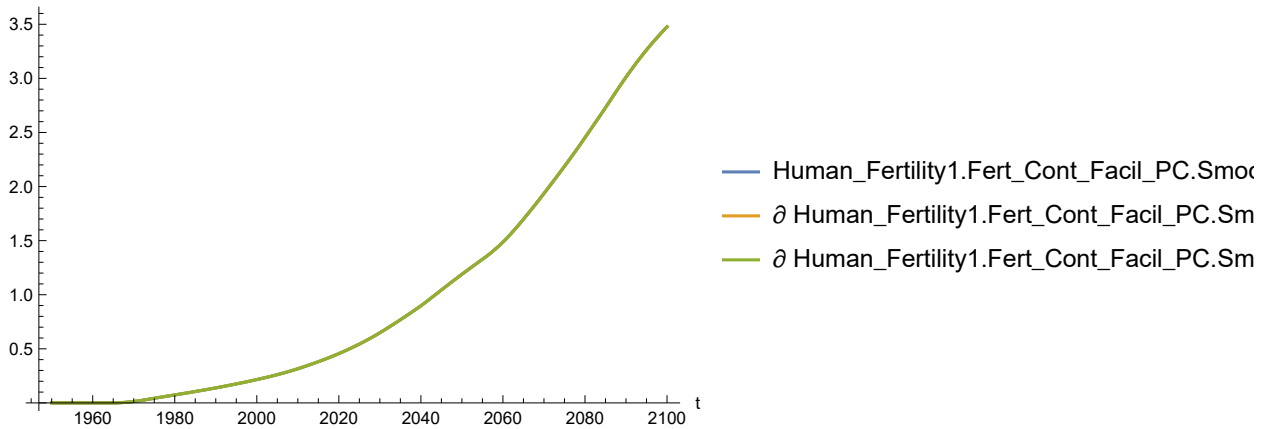
Out[114]=



In[115]:=

```
SystemModelPlot[simsensdata,
  {"Human_Fertility1.Fert_Cont_Facil_PC.Smooth1.Integrator1.y",
   "Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[5]", percentvar}]
```

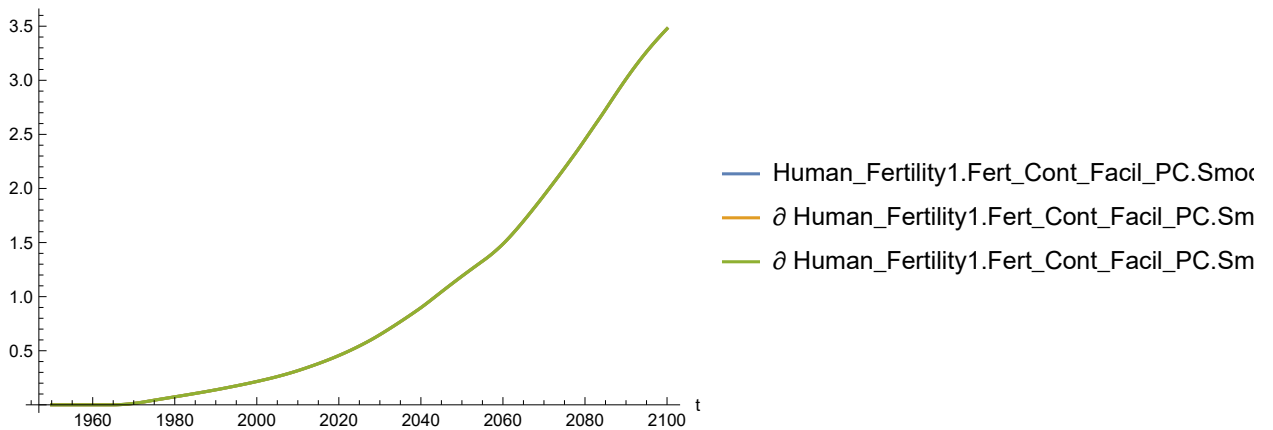
Out[115]=



In[116]:=

```
SystemModelPlot[simsensdata,
  {"Human_Fertility1.Fert_Cont_Facil_PC.Smooth1.Integrator1.y",
   "Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[6]", percentvar}]
```

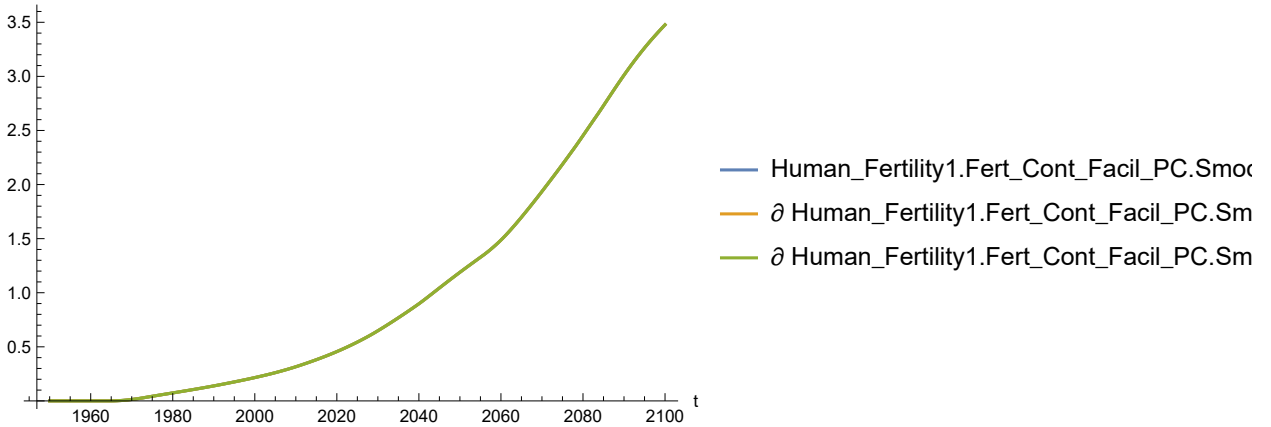
Out[116]=



In[117]:=

```
SystemModelPlot[simsensdata,
  {"Human_Fertility1.Fert_Cont_Facil_PC.Smooth1.Integrator1.y",
   "Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[7]", percentvar}]
```

Out[117]=

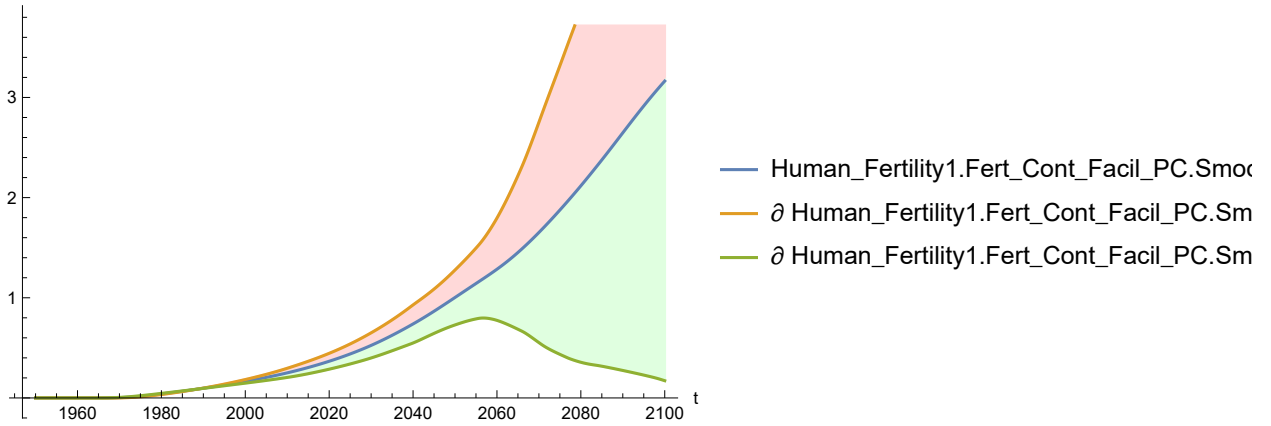


Plot the sensitivity of Human_Fertility1.Fert_Cont_Facil_PC.Smooth2.Integrator1.y to Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals.

In[118]:=

```
SystemModelPlot[simsensdata,
  {"Human_Fertility1.Fert_Cont_Facil_PC.Smooth2.Integrator1.y",
   "Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[1]", percentvar}]
```

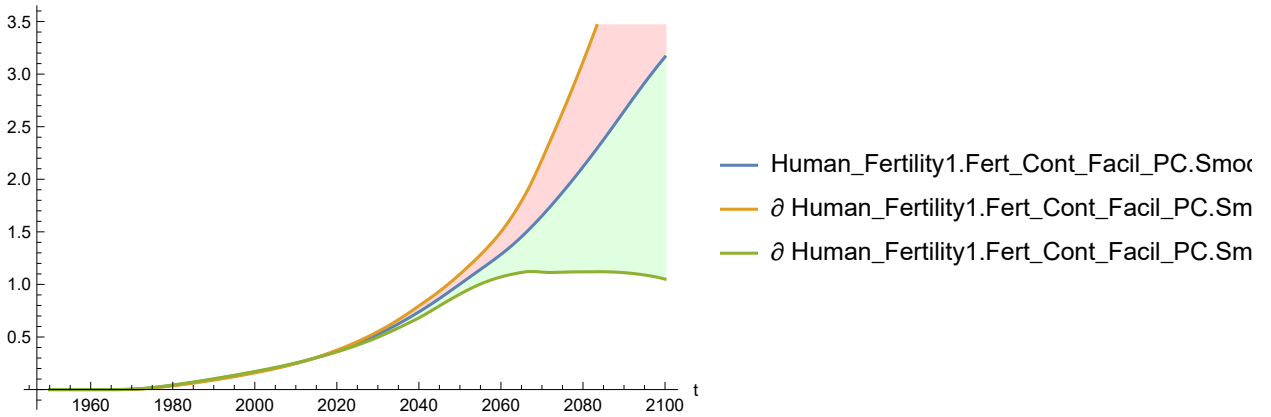
Out[118]=



In[119]:=

```
SystemModelPlot[simsensdata,
  {"Human_Fertility1.Fert_Cont_Facil_PC.Smooth2.Integrator1.y",
   "Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[2]", percentvar}]
```

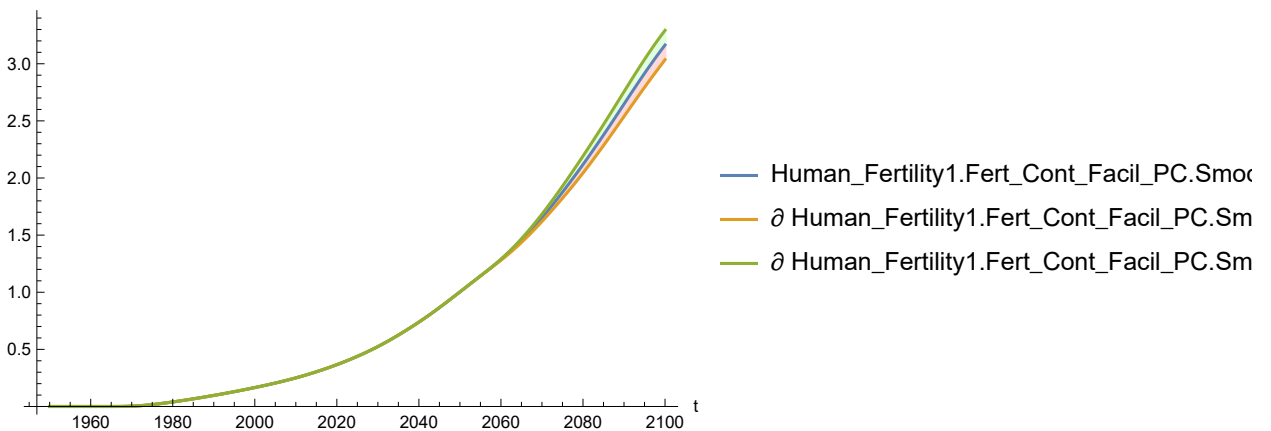
Out[119]=



In[120]:=

```
SystemModelPlot[simsensdata,
  {"Human_Fertility1.Fert_Cont_Facil_PC.Smooth2.Integrator1.y",
   "Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[3]", percentvar}]
```

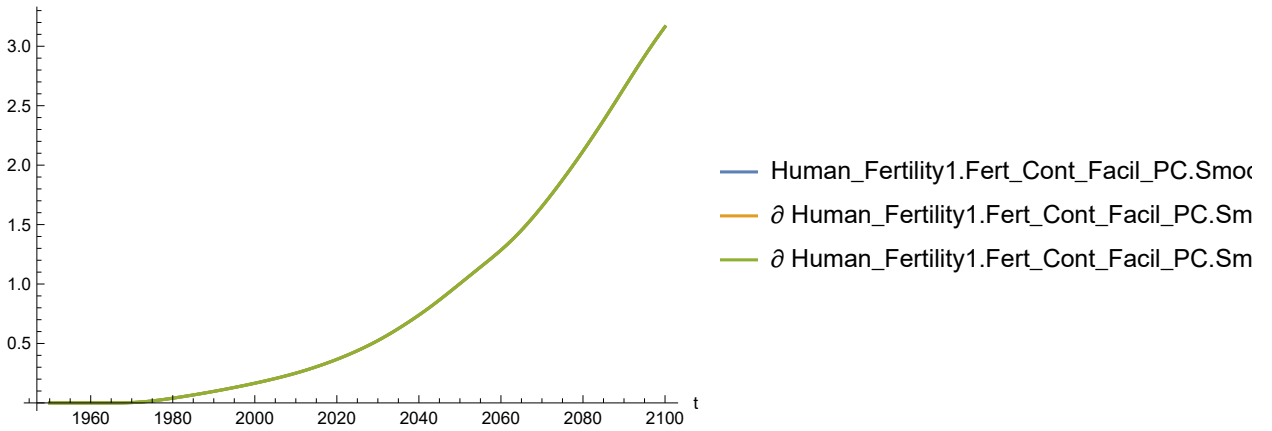
Out[120]=



In[121]:=

```
SystemModelPlot[simsensdata,
  {"Human_Fertility1.Fert_Cont_Facil_PC.Smooth2.Integrator1.y",
   "Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[4]", percentvar}]
```

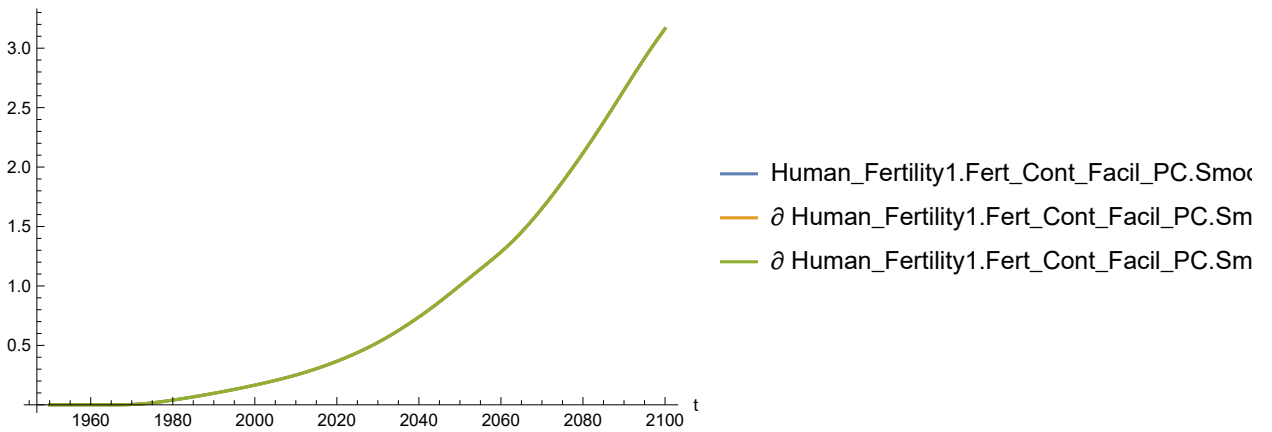
Out[121]=



In[122]:=

```
SystemModelPlot[simsensdata,
  {"Human_Fertility1.Fert_Cont_Facil_PC.Smooth2.Integrator1.y",
   "Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[5]", percentvar}]
```

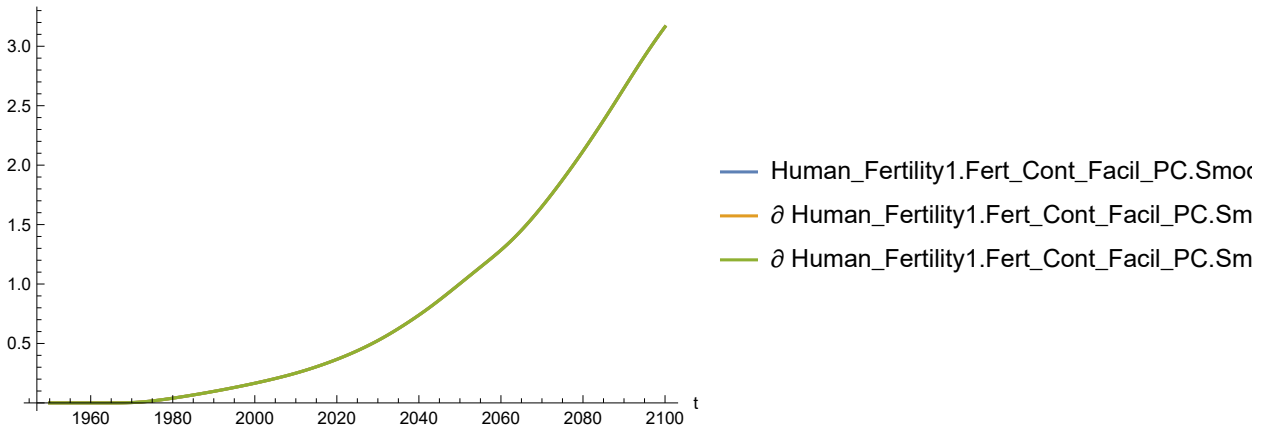
Out[122]=



In[123]:=

```
SystemModelPlot[simsensdata,
  {"Human_Fertility1.Fert_Cont_Facil_PC.Smooth2.Integrator1.y",
   "Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[6]", percentvar}]
```

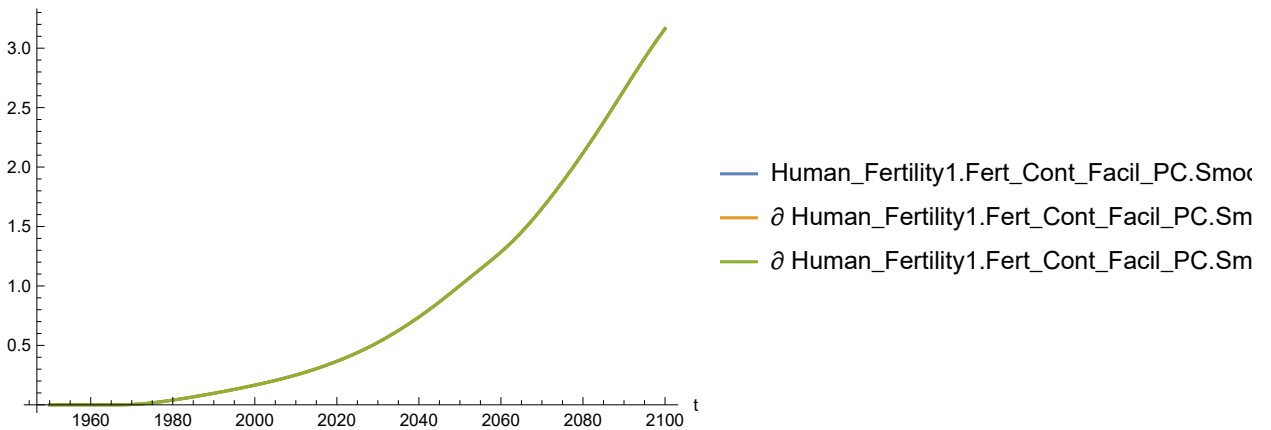
Out[123]=



In[124]:=

```
SystemModelPlot[simsensdata,
  {"Human_Fertility1.Fert_Cont_Facil_PC.Smooth2.Integrator1.y",
   "Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[7]", percentvar}]
```

Out[124]=

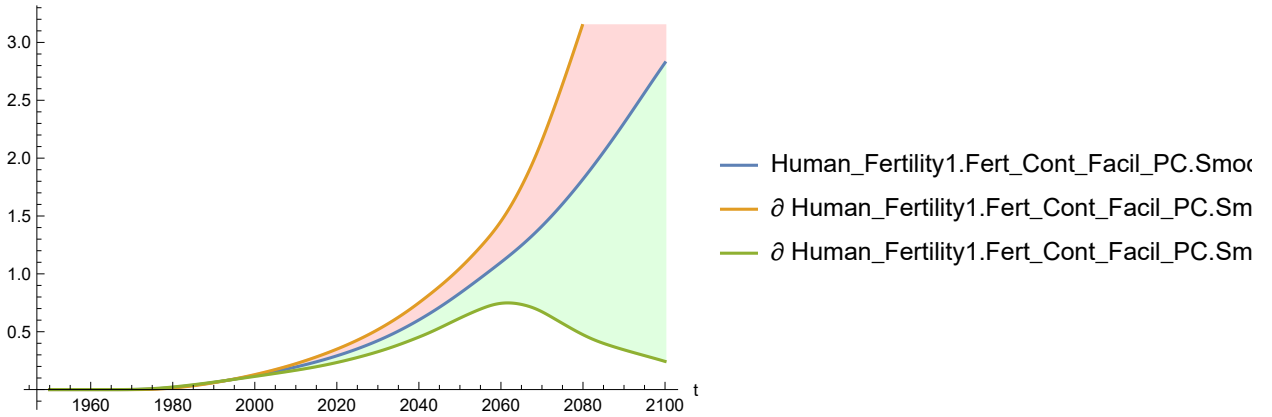


Plot the sensitivity of Human_Fertility1.Fert_Cont_Facil_PC.Smooth3.Integrator1.y to Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals.

In[125]:=

```
SystemModelPlot[simsensdata,
  {"Human_Fertility1.Fert_Cont_Facil_PC.Smooth3.Integrator1.y",
   "Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[1]", percentvar}]
```

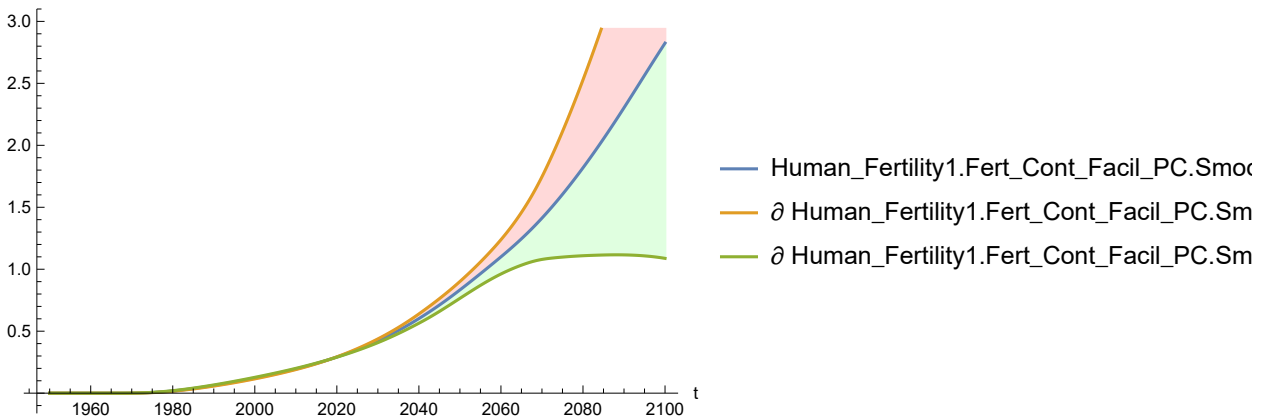
Out[125]=



In[126]:=

```
SystemModelPlot[simsensdata,
  {"Human_Fertility1.Fert_Cont_Facil_PC.Smooth3.Integrator1.y",
   "Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[2]", percentvar}]
```

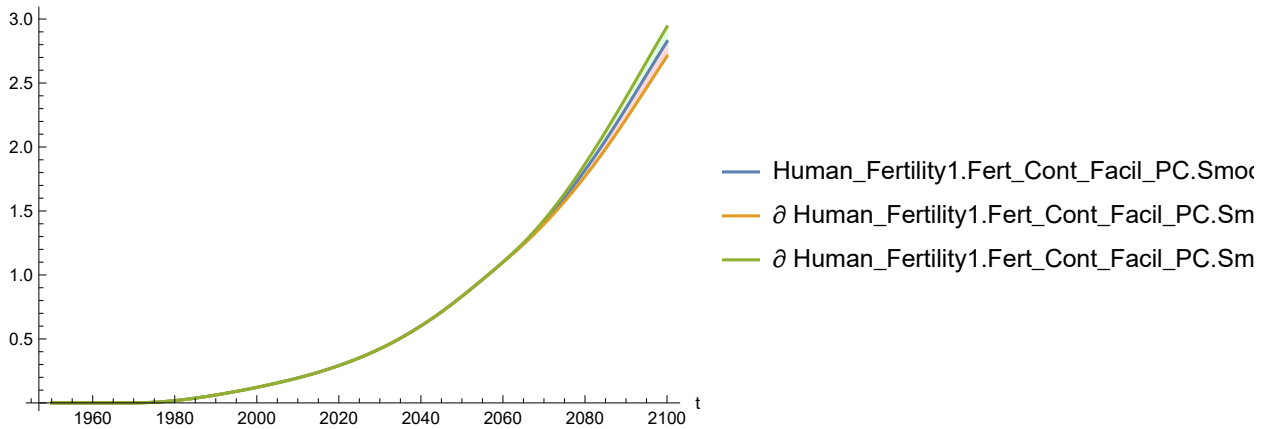
Out[126]=



In[127]:=

```
SystemModelPlot[simsensdata,
  {"Human_Fertility1.Fert_Cont_Facil_PC.Smooth3.Integrator1.y",
   "Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[3]", percentvar}]
```

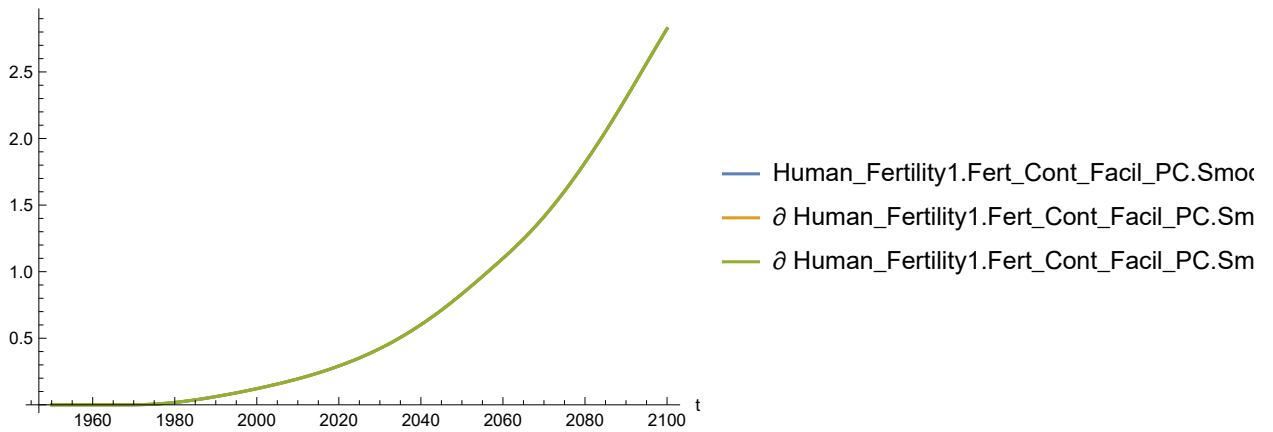
Out[127]=



In[128]:=

```
SystemModelPlot[simsensdata,
  {"Human_Fertility1.Fert_Cont_Facil_PC.Smooth3.Integrator1.y",
   "Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[4]", percentvar}]
```

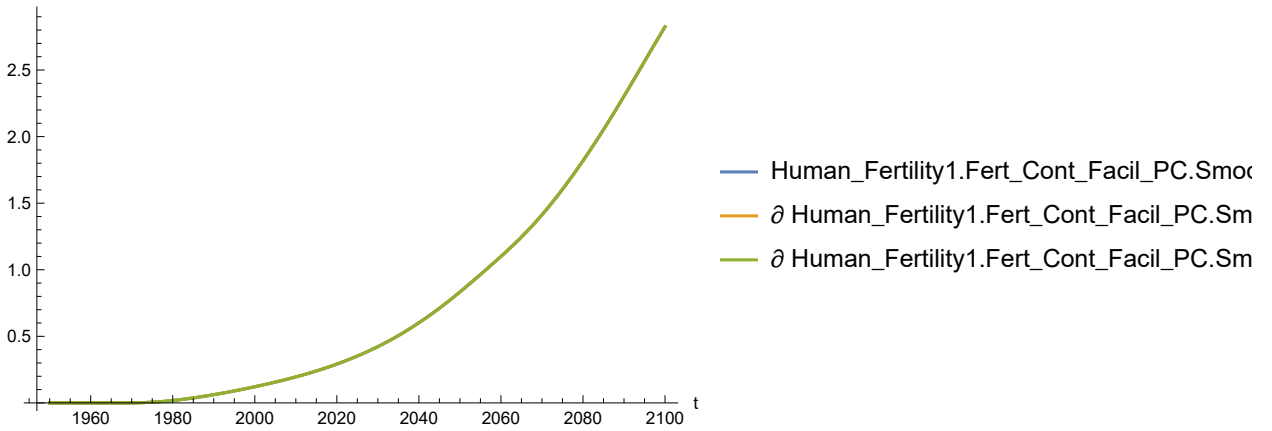
Out[128]=



In[129]:=

```
SystemModelPlot[simsensdata,
  {"Human_Fertility1.Fert_Cont_Facil_PC.Smooth3.Integrator1.y",
   "Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[5]", percentvar}]
```

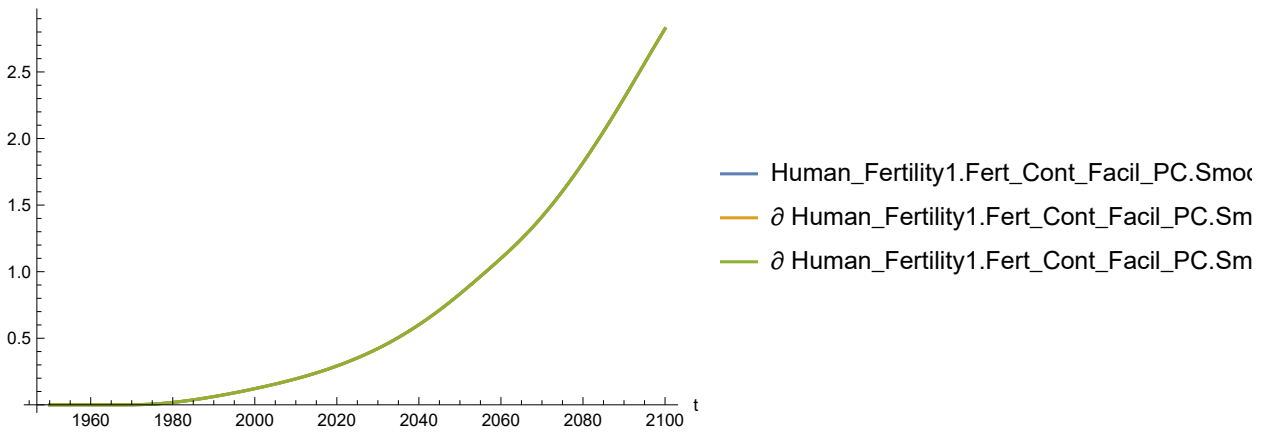
Out[129]=



In[130]:=

```
SystemModelPlot[simsensdata,
  {"Human_Fertility1.Fert_Cont_Facil_PC.Smooth3.Integrator1.y",
   "Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[6]", percentvar}]
```

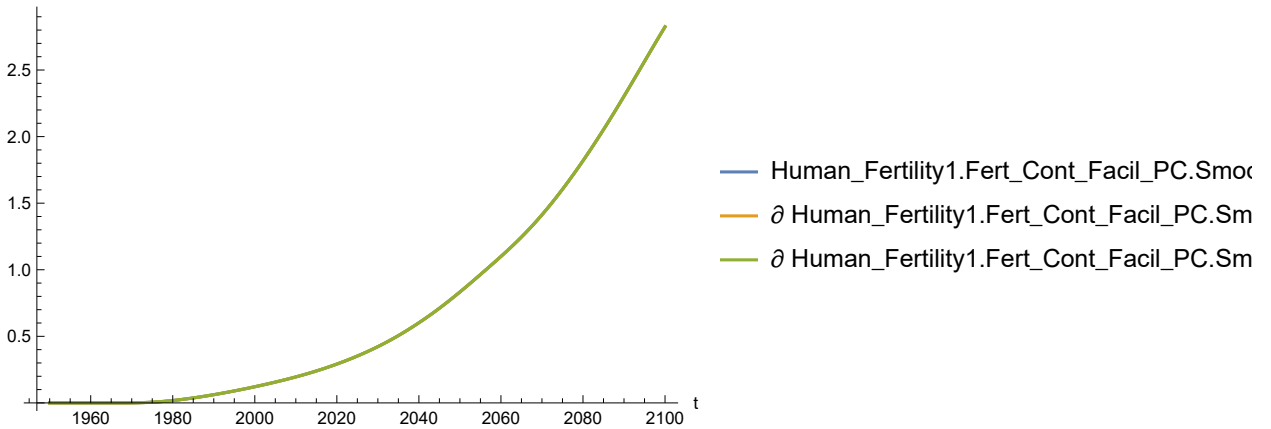
Out[130]=



In[131]:=

```
SystemModelPlot[simsensdata,
  {"Human_Fertility1.Fert_Cont_Facil_PC.Smooth3.Integrator1.y",
   "Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[7]", percentvar}]
```

Out[131]=

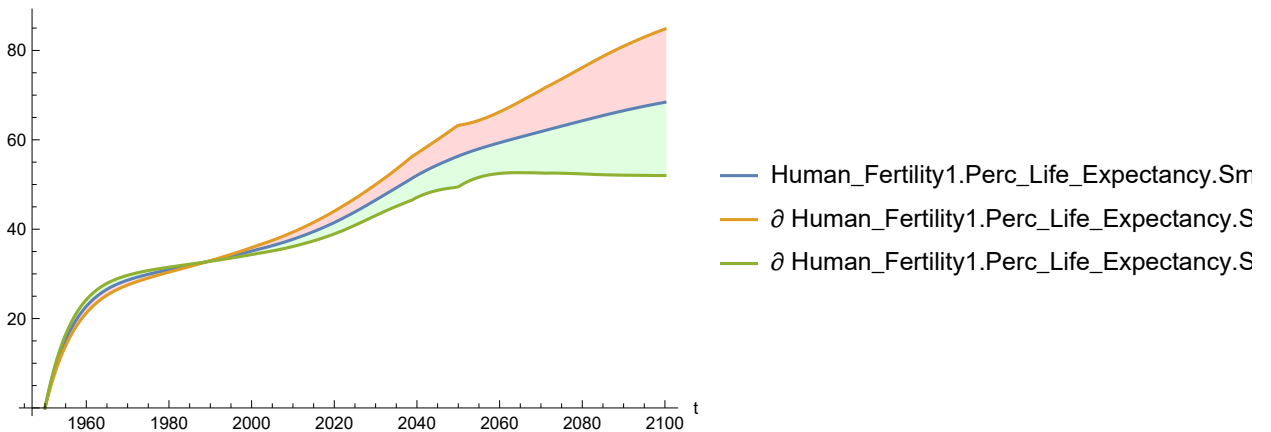


Plot the sensitivity of Human_Fertility1.Perc_Life_Expectancy.Smooth1.Integrator1.y to Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals.

In[132]:=

```
SystemModelPlot[simsensdata,
  {"Human_Fertility1.Perc_Life_Expectancy.Smooth1.Integrator1.y",
   "Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[1]", percentvar}]
```

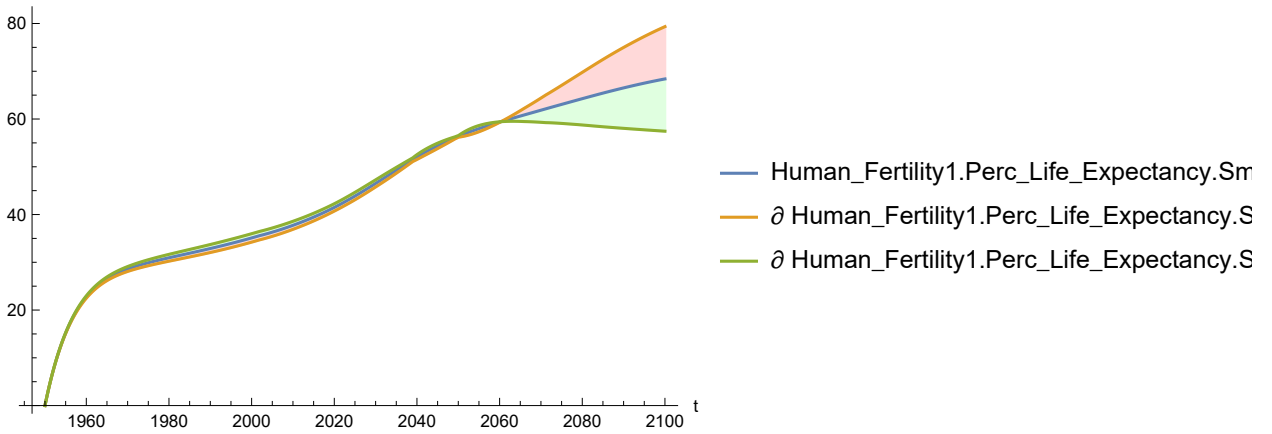
Out[132]=



In[133]:=

```
SystemModelPlot[simsensdata,
  {"Human_Fertility1.Perc_Life_Expectancy.Smooth1.Integrator1.y",
   "Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[2]", percentvar}]
```

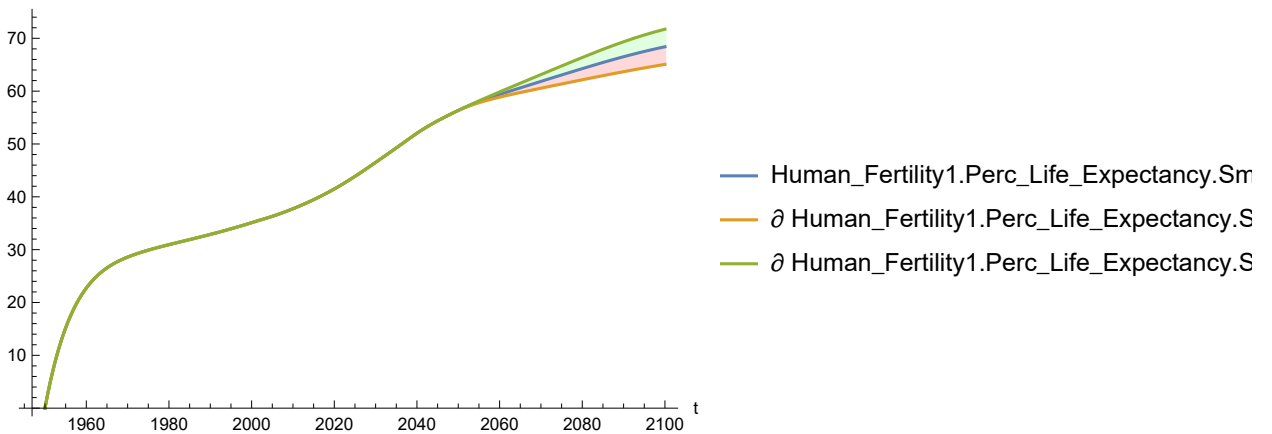
Out[133]=



In[134]:=

```
SystemModelPlot[simsensdata,
  {"Human_Fertility1.Perc_Life_Expectancy.Smooth1.Integrator1.y",
   "Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[3]", percentvar}]
```

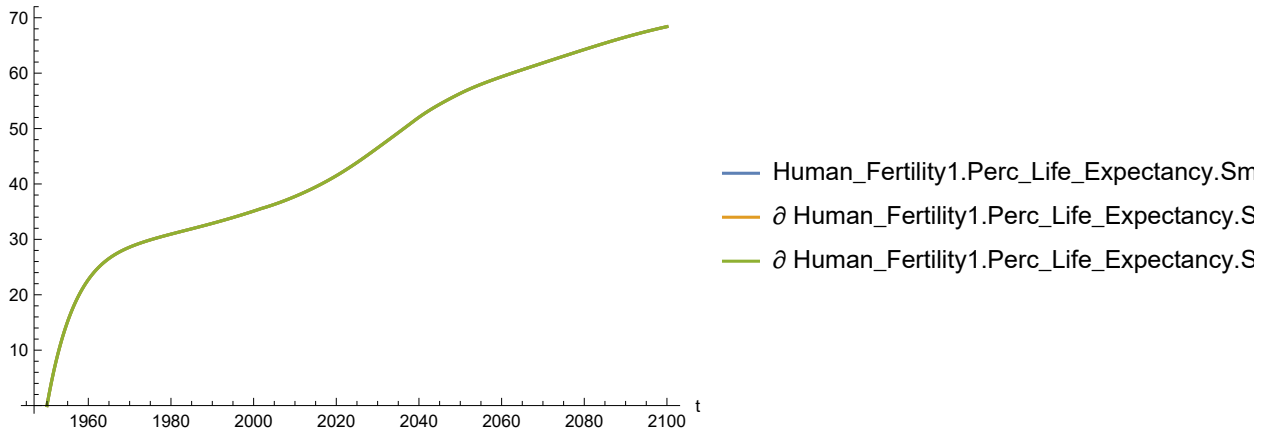
Out[134]=



In[135]:=

```
SystemModelPlot[simsensdata,
  {"Human_Fertility1.Perc_Life_Expectancy.Smooth1.Integrator1.y",
   "Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[4]", percentvar}]
```

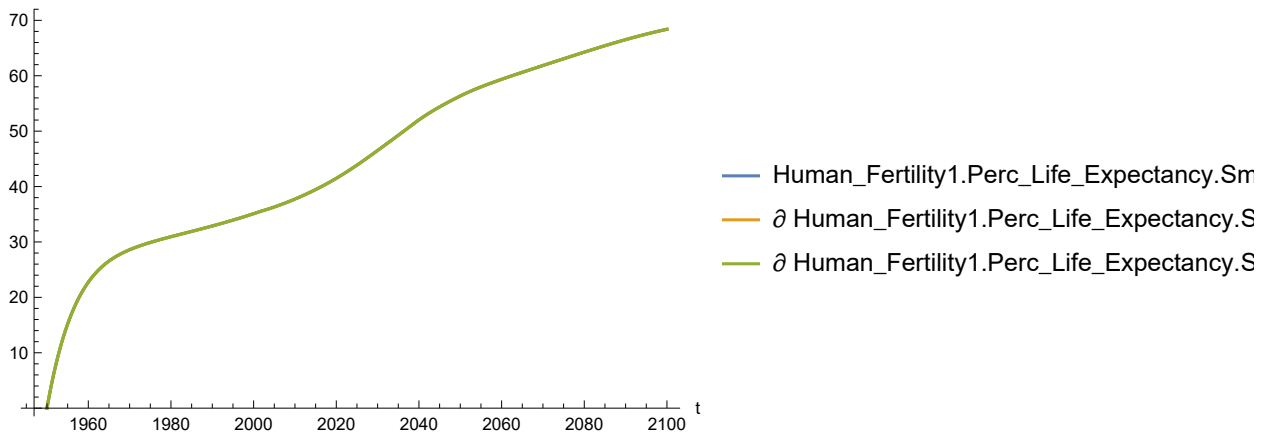
Out[135]=



In[136]:=

```
SystemModelPlot[simsensdata,
  {"Human_Fertility1.Perc_Life_Expectancy.Smooth1.Integrator1.y",
   "Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[5]", percentvar}]
```

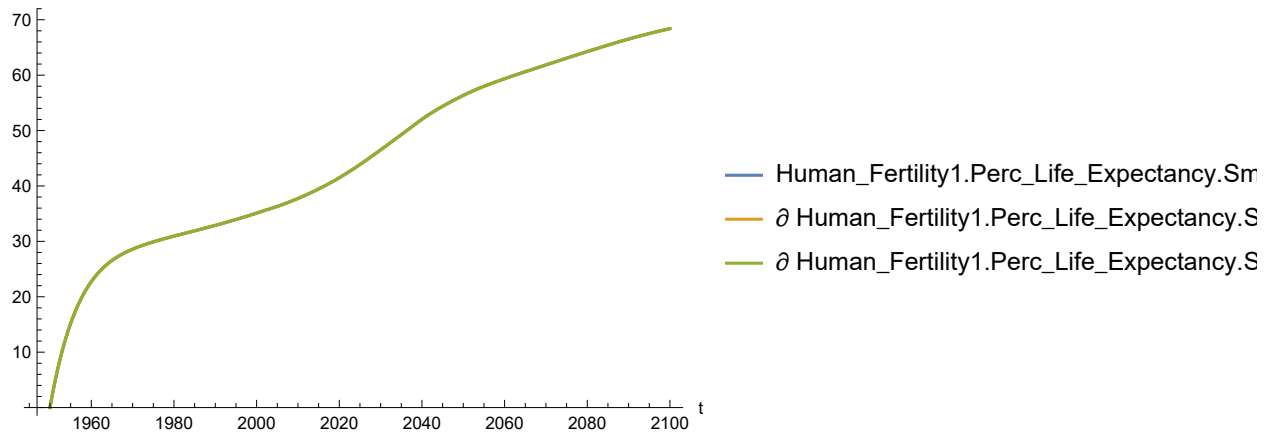
Out[136]=



In[137]:=

```
SystemModelPlot[simsensdata,
  {"Human_Fertility1.Perc_Life_Expectancy.Smooth1.Integrator1.y",
   "Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[6]", percentvar}]
```

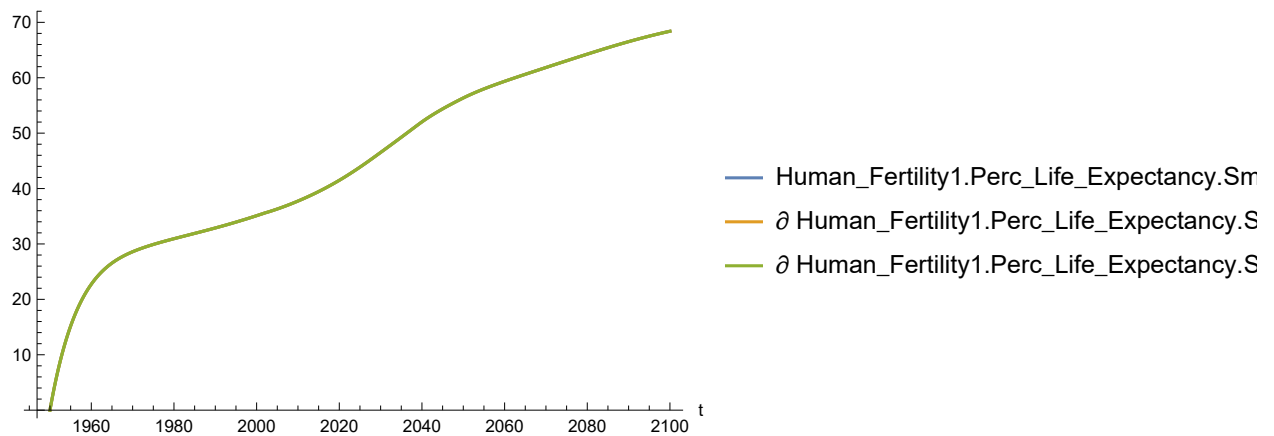
Out[137]=



In[138]:=

```
SystemModelPlot[simsensdata,
  {"Human_Fertility1.Perc_Life_Expectancy.Smooth1.Integrator1.y",
   "Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[7]", percentvar}]
```

Out[138]=

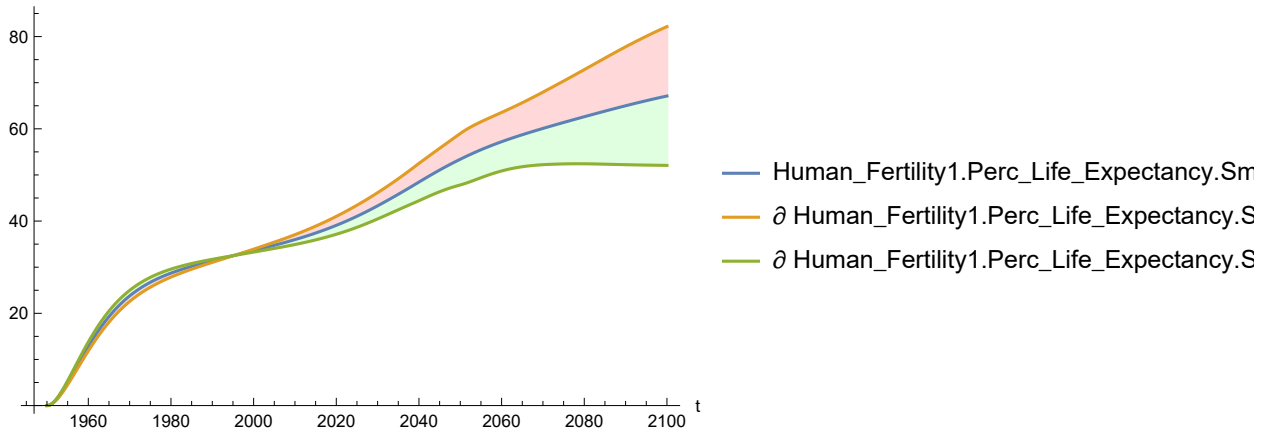


Plot the sensitivity of Human_Fertility1.Perc_Life_Expectancy.Smooth2.Integrator1.y to Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals.

In[139]:=

```
SystemModelPlot[simsensdata,
  {"Human_Fertility1.Perc_Life_Expectancy.Smooth2.Integrator1.y",
   "Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[1]", percentvar}]
```

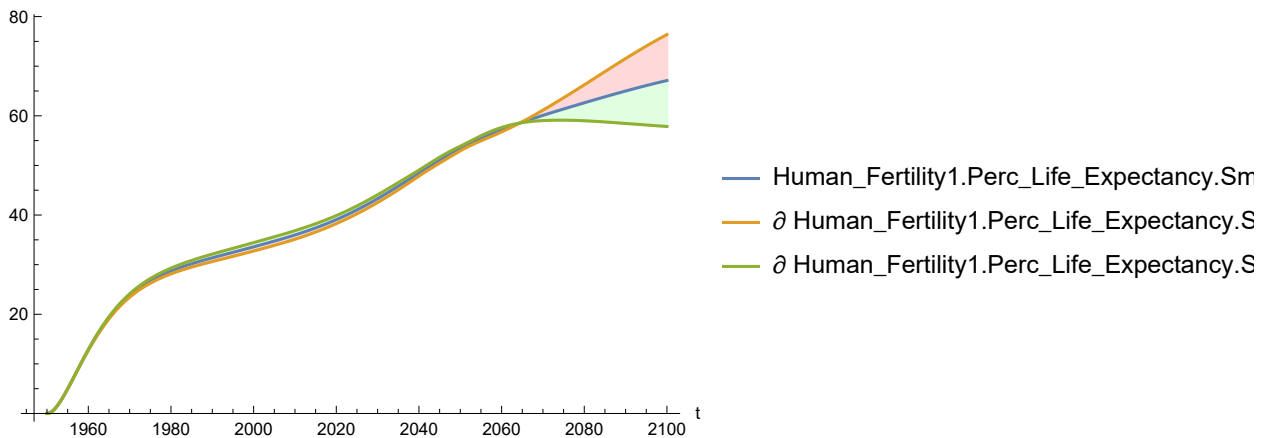
Out[139]=



In[140]:=

```
SystemModelPlot[simsensdata,
  {"Human_Fertility1.Perc_Life_Expectancy.Smooth2.Integrator1.y",
   "Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[2]", percentvar}]
```

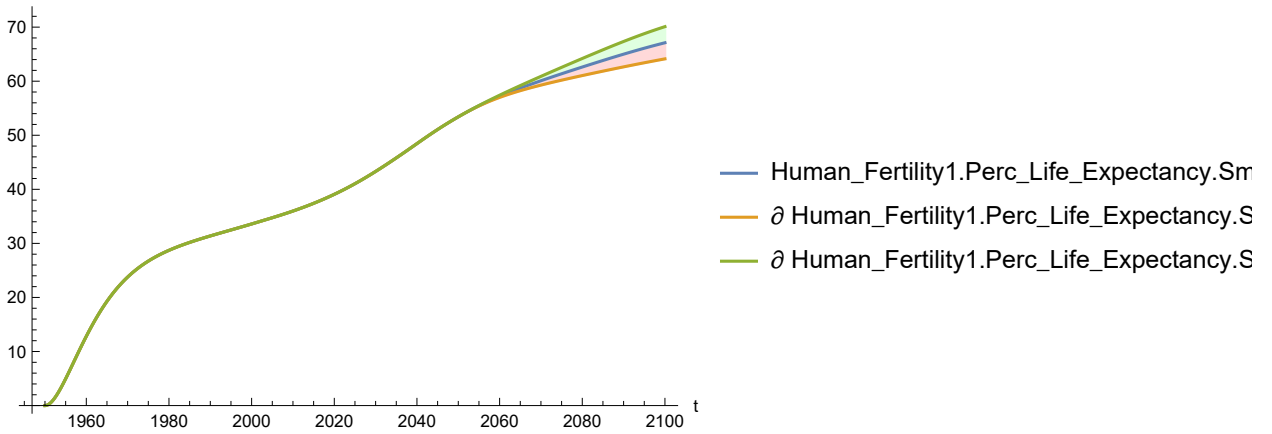
Out[140]=



In[141]:=

```
SystemModelPlot[simsensdata,
  {"Human_Fertility1.Perc_Life_Expectancy.Smooth2.Integrator1.y",
   "Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[3]", percentvar}]
```

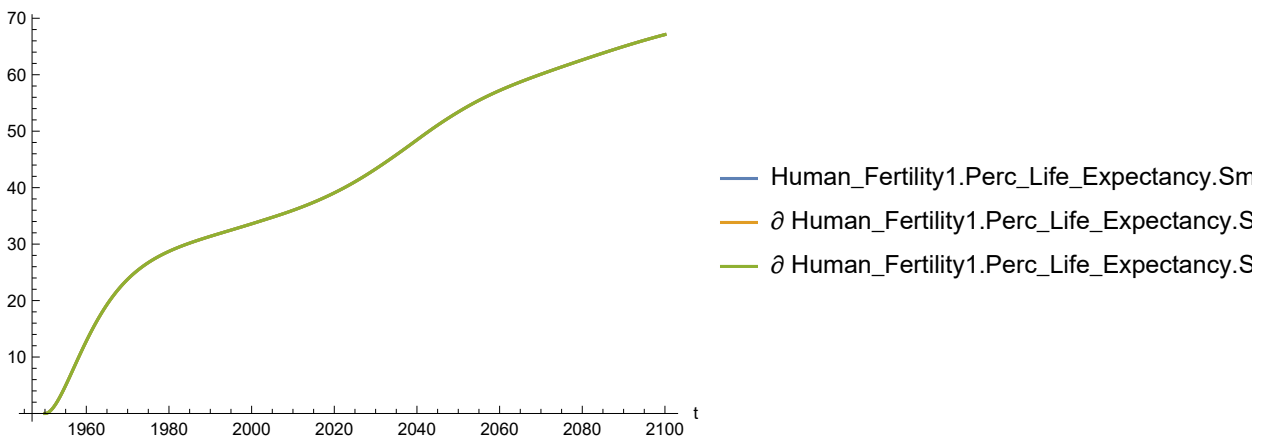
Out[141]=



In[142]:=

```
SystemModelPlot[simsensdata,
  {"Human_Fertility1.Perc_Life_Expectancy.Smooth2.Integrator1.y",
   "Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[4]", percentvar}]
```

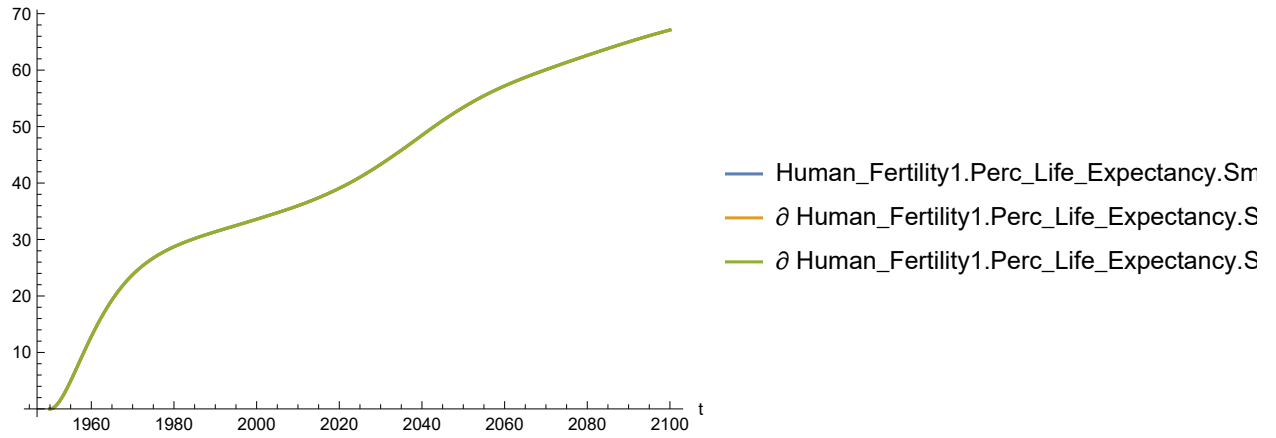
Out[142]=



In[143]:=

```
SystemModelPlot[simsensdata,
  {"Human_Fertility1.Perc_Life_Expectancy.Smooth2.Integrator1.y",
   "Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[5]", percentvar}]
```

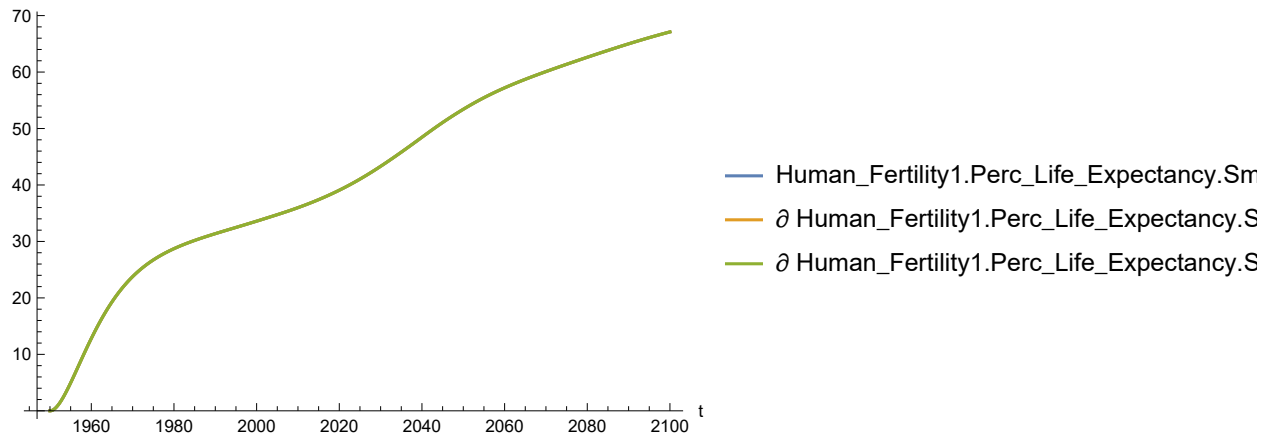
Out[143]=



In[144]:=

```
SystemModelPlot[simsensdata,
  {"Human_Fertility1.Perc_Life_Expectancy.Smooth2.Integrator1.y",
   "Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[6]", percentvar}]
```

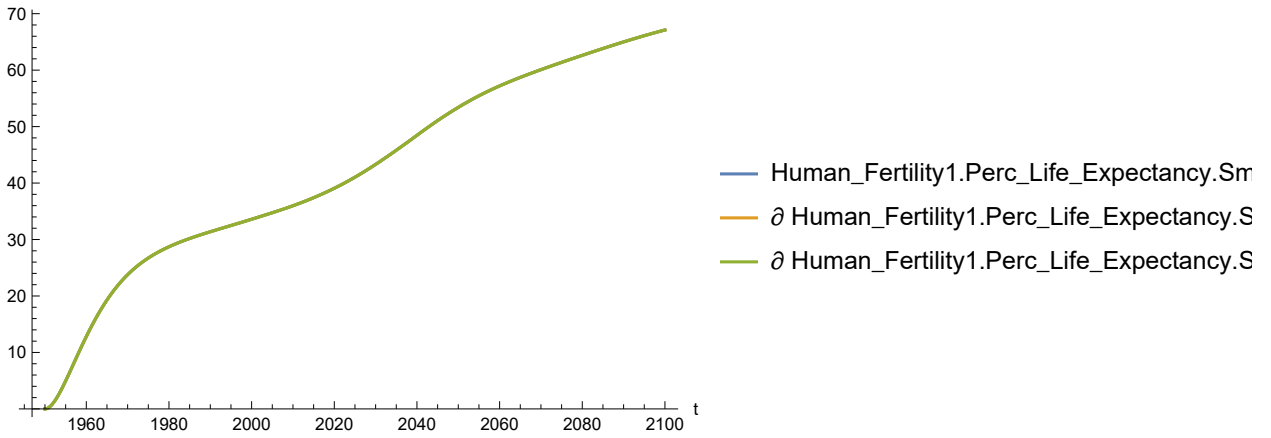
Out[144]=



In[145]:=

```
SystemModelPlot[simsensdata,
  {"Human_Fertility1.Perc_Life_Expectancy.Smooth2.Integrator1.y",
   "Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[7]", percentvar}]
```

Out[145]=

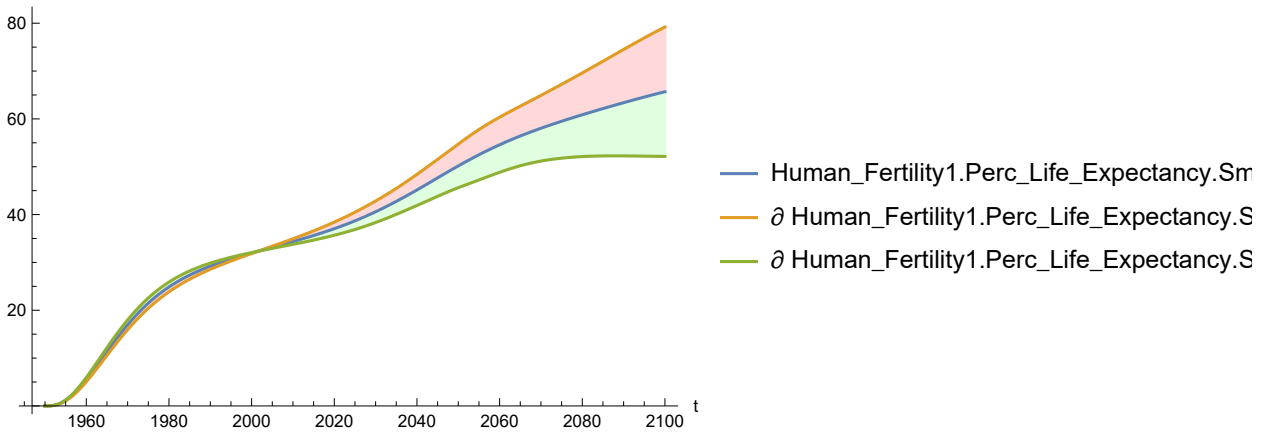


Plot the sensitivity of Human_Fertility1.Perc_Life_Expectancy.Smooth3.Integrator1.y to Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals.

In[146]:=

```
SystemModelPlot[simsensdata,
  {"Human_Fertility1.Perc_Life_Expectancy.Smooth3.Integrator1.y",
   "Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[1]", percentvar}]
```

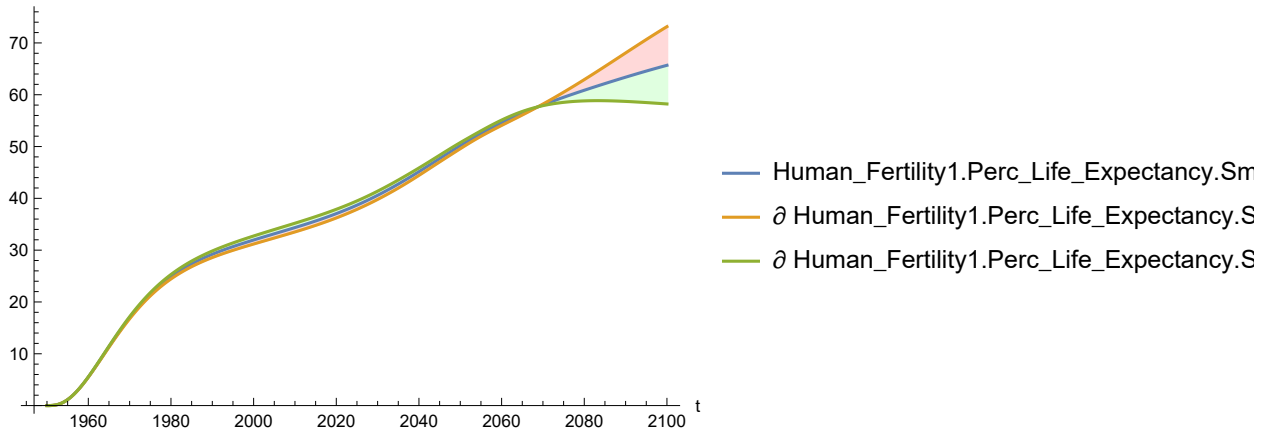
Out[146]=



In[147]:=

```
SystemModelPlot[simsensdata,
  {"Human_Fertility1.Perc_Life_Expectancy.Smooth3.Integrator1.y",
   "Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[2]", percentvar}]
```

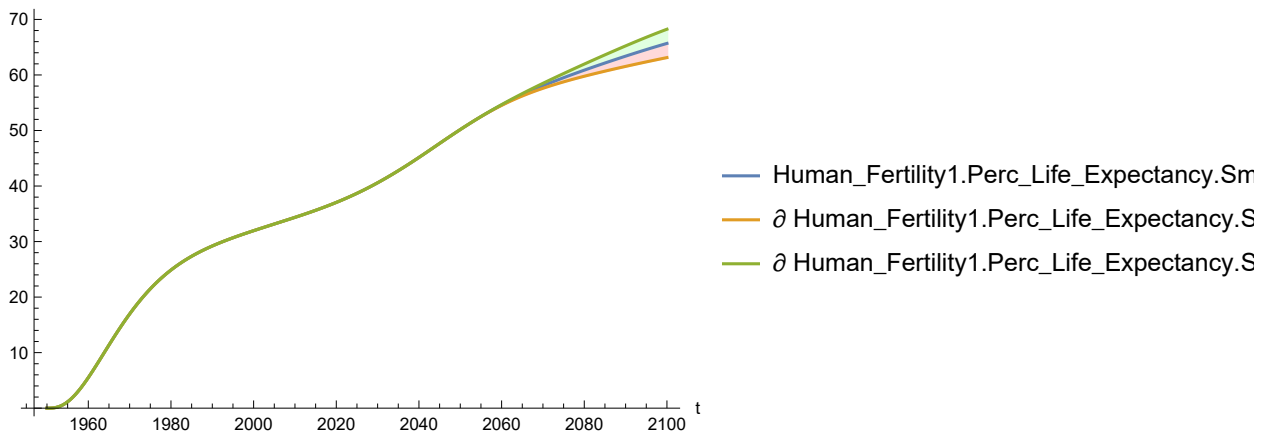
Out[147]=



In[148]:=

```
SystemModelPlot[simsensdata,
  {"Human_Fertility1.Perc_Life_Expectancy.Smooth3.Integrator1.y",
   "Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[3]", percentvar}]
```

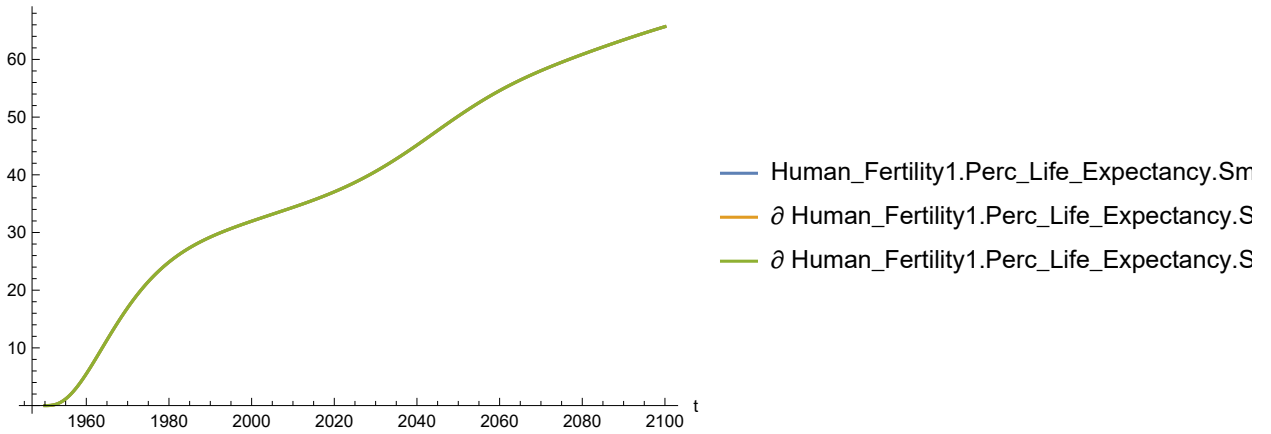
Out[148]=



In[149]:=

```
SystemModelPlot[simsensdata,
  {"Human_Fertility1.Perc_Life_Expectancy.Smooth3.Integrator1.y",
   "Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[4]", percentvar}]
```

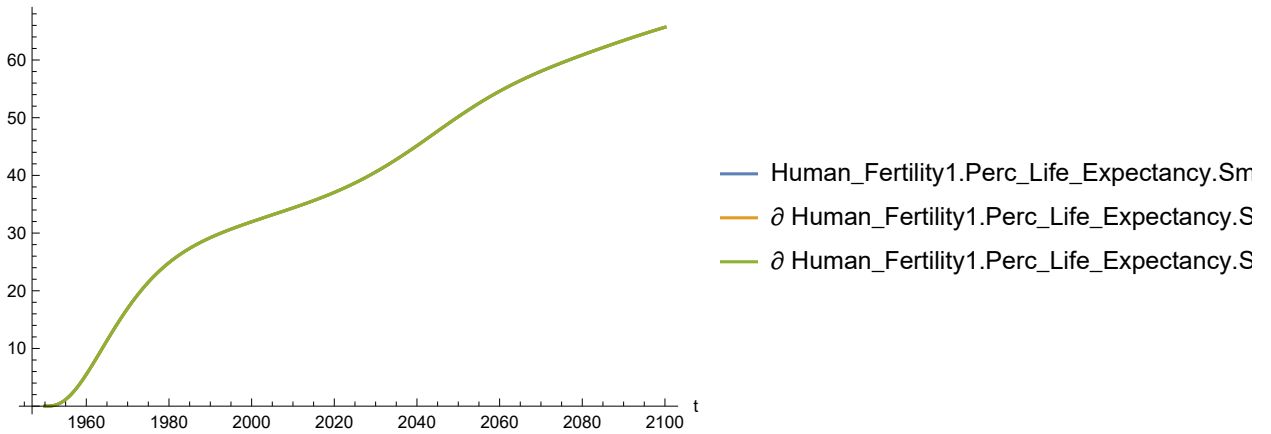
Out[149]=



In[150]:=

```
SystemModelPlot[simsensdata,
  {"Human_Fertility1.Perc_Life_Expectancy.Smooth3.Integrator1.y",
   "Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[5]", percentvar}]
```

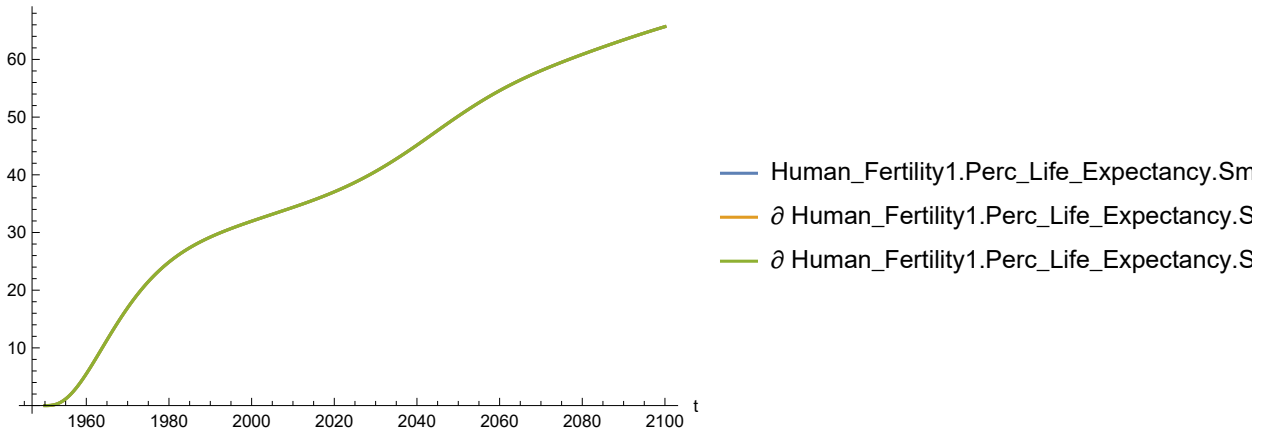
Out[150]=



In[151]:=

```
SystemModelPlot[simsensdata,
  {"Human_Fertility1.Perc_Life_Expectancy.Smooth3.Integrator1.y",
   "Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[6]", percentvar}]
```

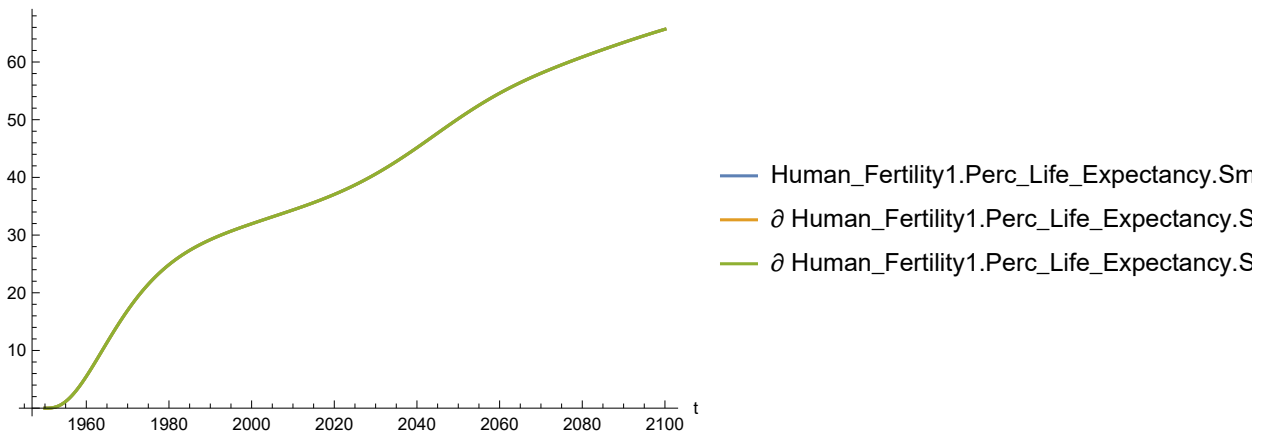
Out[151]=



In[152]:=

```
SystemModelPlot[simsensdata,
  {"Human_Fertility1.Perc_Life_Expectancy.Smooth3.Integrator1.y",
   "Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[7]", percentvar}]
```

Out[152]=

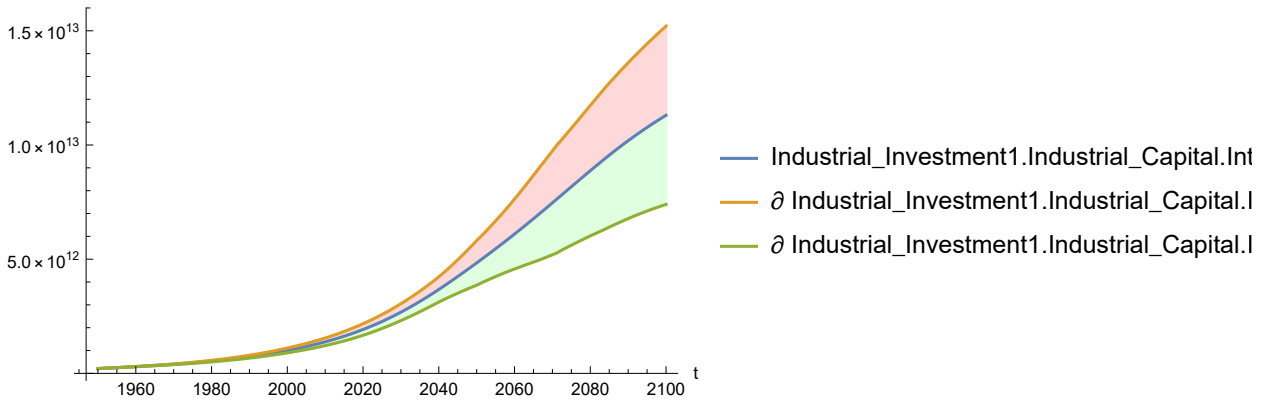


Plot the sensitivity of `Industrial_Investment1.Industrial_Capital.Integrator1.y` to `Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals`.

In[153]:=

```
SystemModelPlot[simsensdata, {"Industrial_Investment1.Industrial_Capital.Integrator1.y",
"Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[1]", percentvar}]
```

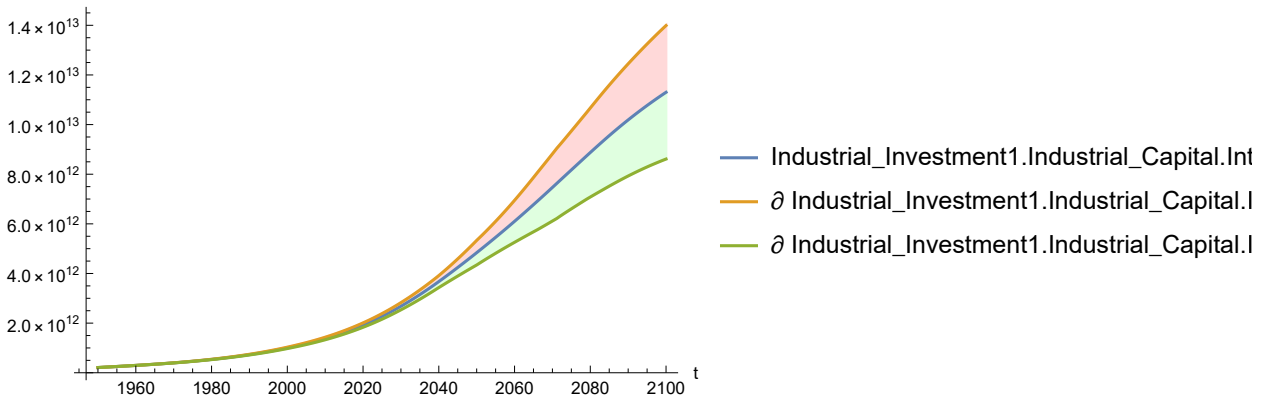
Out[153]:=



In[154]:=

```
SystemModelPlot[simsensdata, {"Industrial_Investment1.Industrial_Capital.Integrator1.y",
"Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[2]", percentvar}]
```

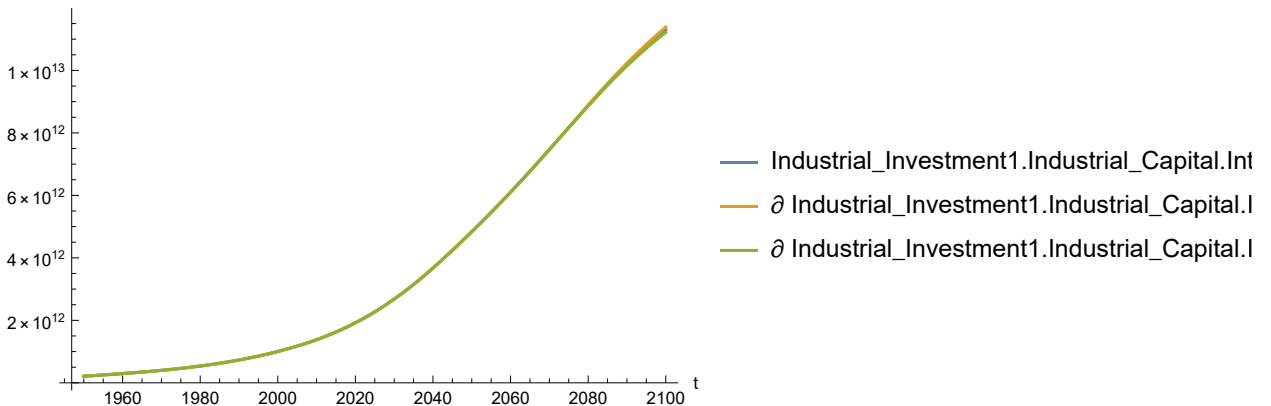
Out[154]:=



In[155]:=

```
SystemModelPlot[simsensdata, {"Industrial_Investment1.Industrial_Capital.Integrator1.y",
"Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[3]", percentvar}]
```

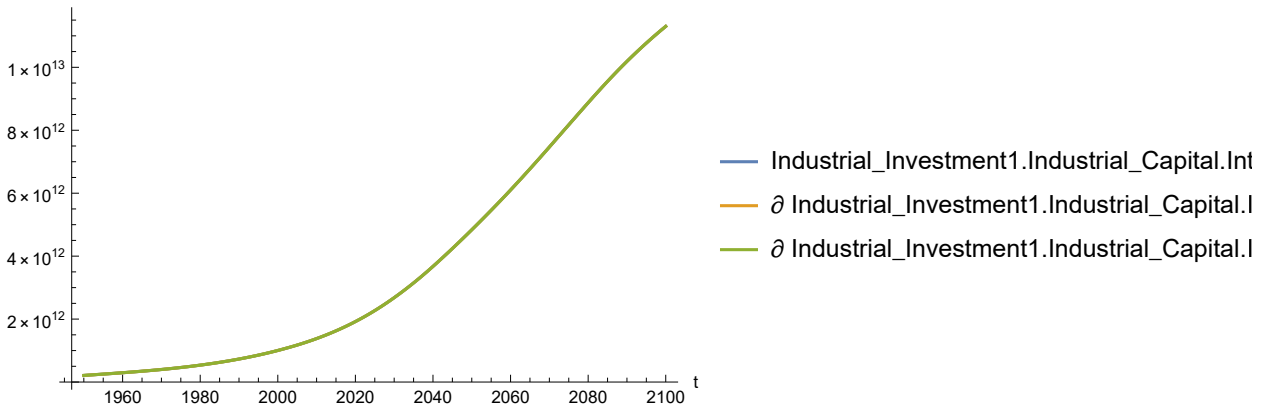
Out[155]:=



In[156]:=

```
SystemModelPlot[simsensdata, {"Industrial_Investment1.Industrial_Capital.Integrator1.y",
"Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[4]", percentvar}]
```

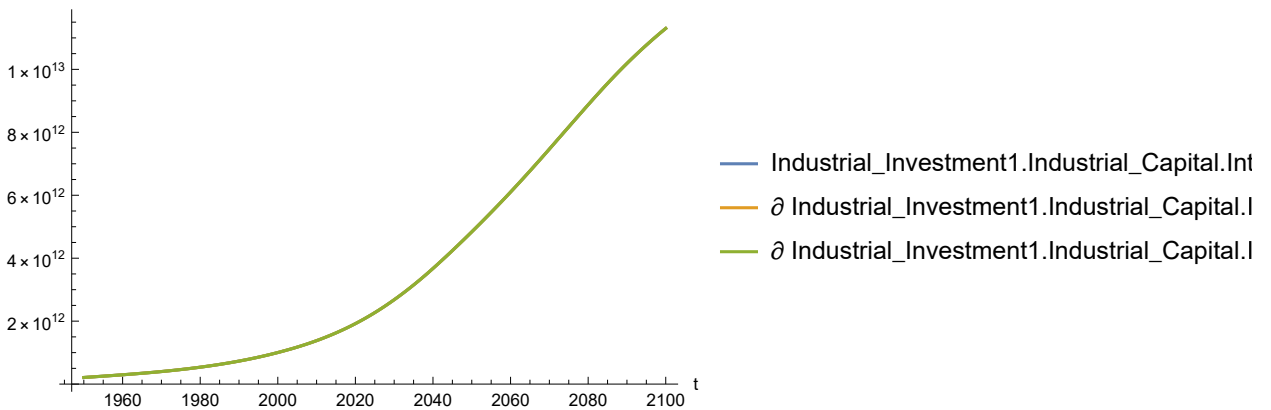
Out[156]:=



In[157]:=

```
SystemModelPlot[simsensdata, {"Industrial_Investment1.Industrial_Capital.Integrator1.y",
"Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[5]", percentvar}]
```

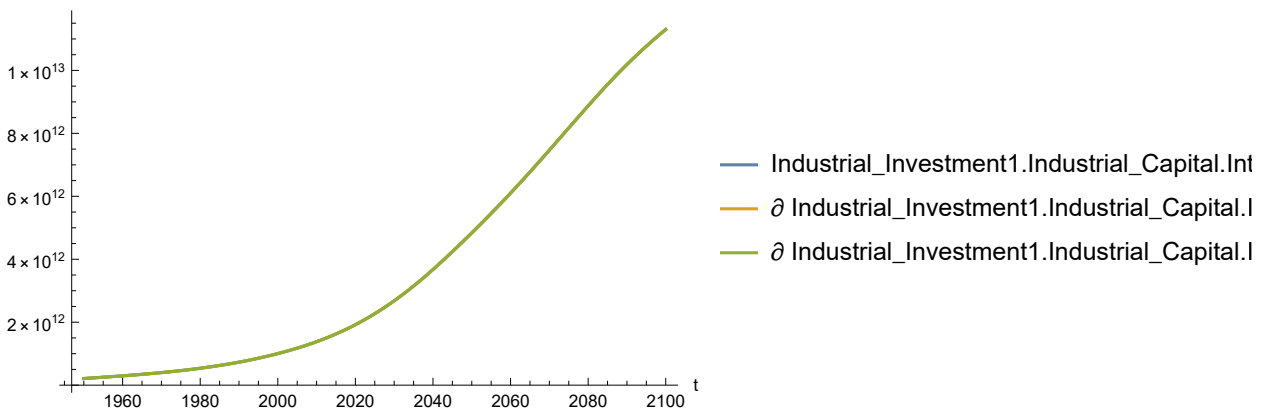
Out[157]:=



In[158]:=

```
SystemModelPlot[simsensdata, {"Industrial_Investment1.Industrial_Capital.Integrator1.y",
"Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[6]", percentvar}]
```

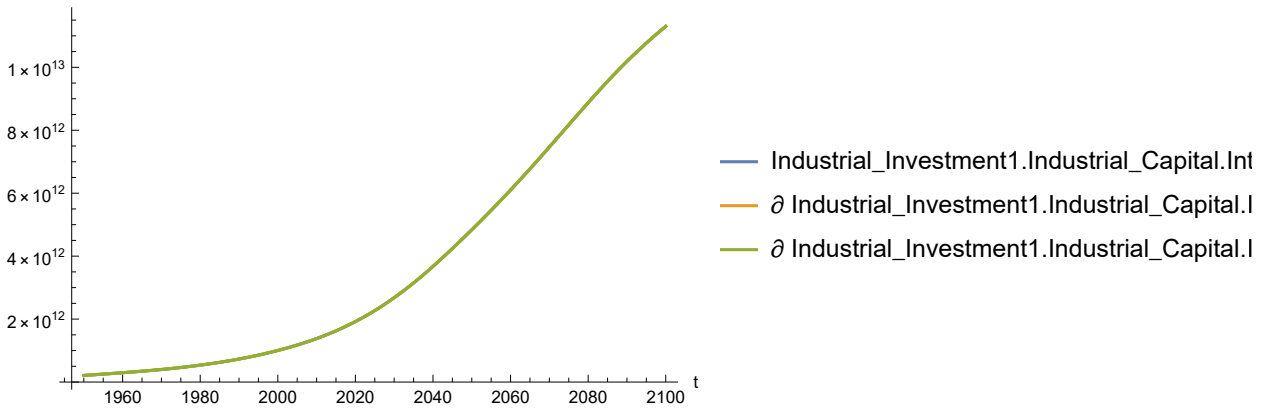
Out[158]:=



In[159]:=

```
SystemModelPlot[simsensdata, {"Industrial_Investment1.Industrial_Capital.Integrator1.y",
"Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[7]", percentvar}]
```

Out[159]:=

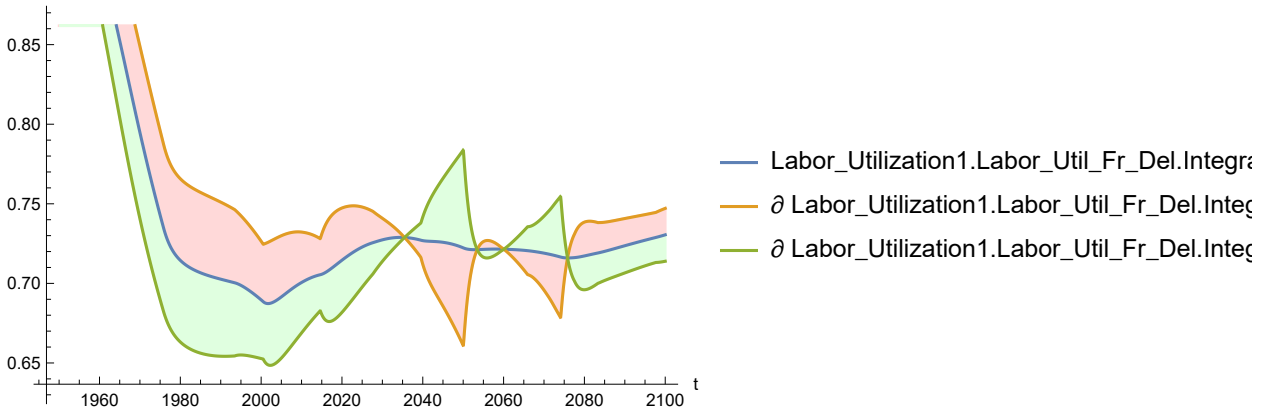


Plot the sensitivity of Labor_Utilization1.Labor_Util_Fr_Del.Integrator1.y to Life_Expectan-
cy1.Lifet_Mlt_Hlth_Serv_2.y_vals.

In[160]:=

```
SystemModelPlot[simsensdata, {"Labor_Utilization1.Labor_Util_Fr_Del.Integrator1.y",
"Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[1]", percentvar}]
```

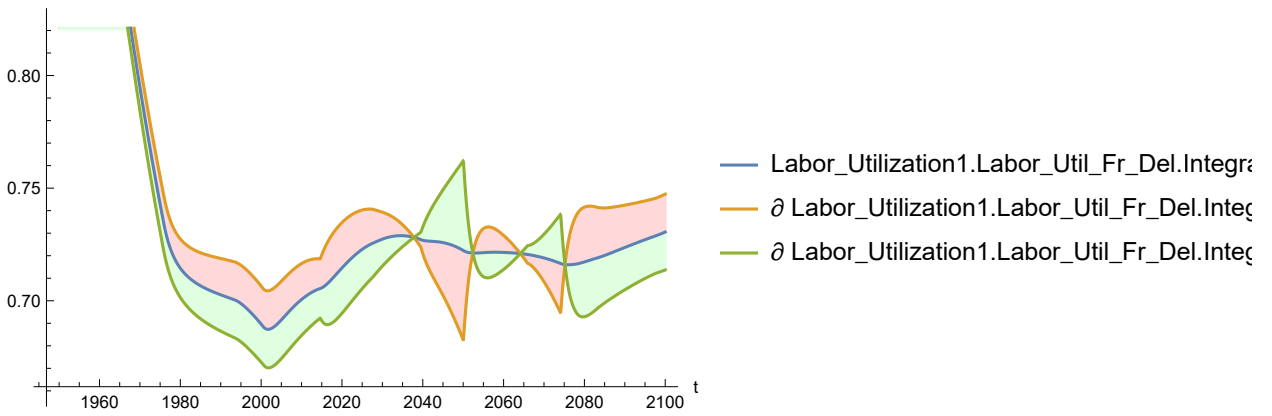
Out[160]:=



In[161]:=

```
SystemModelPlot[simsensdata, {"Labor_Utilization1.Labor_Util_Fr_Del.Integrator1.y",
"Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[2]", percentvar}]
```

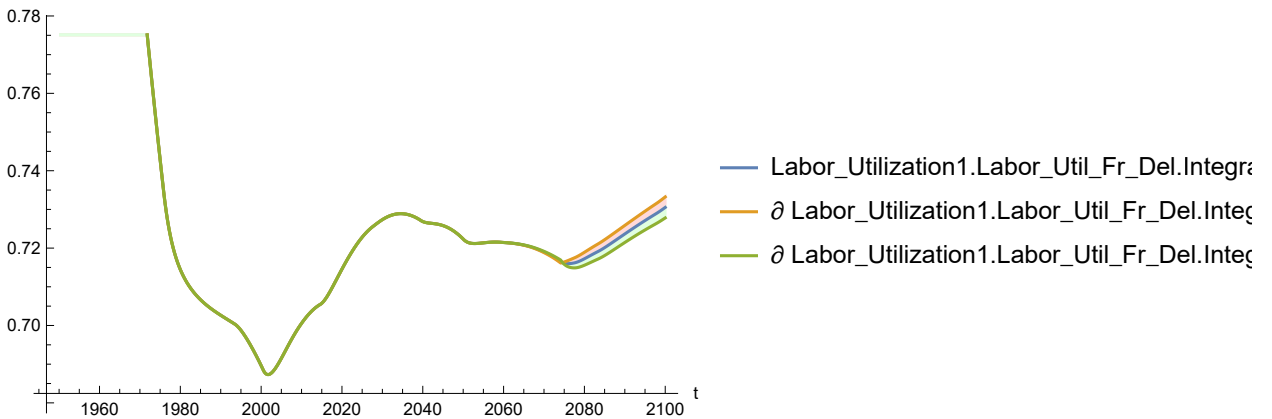
Out[161]=



In[162]:=

```
SystemModelPlot[simsensdata, {"Labor_Utilization1.Labor_Util_Fr_Del.Integrator1.y",
"Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[3]", percentvar}]
```

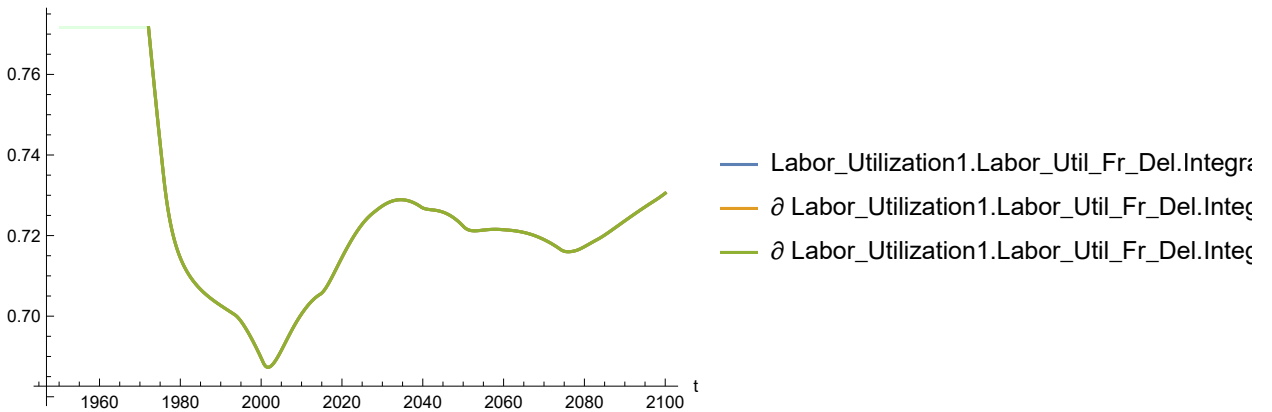
Out[162]=



In[163]:=

```
SystemModelPlot[simsensdata, {"Labor_Utilization1.Labor_Util_Fr_Del.Integrator1.y",
"Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[4]", percentvar}]
```

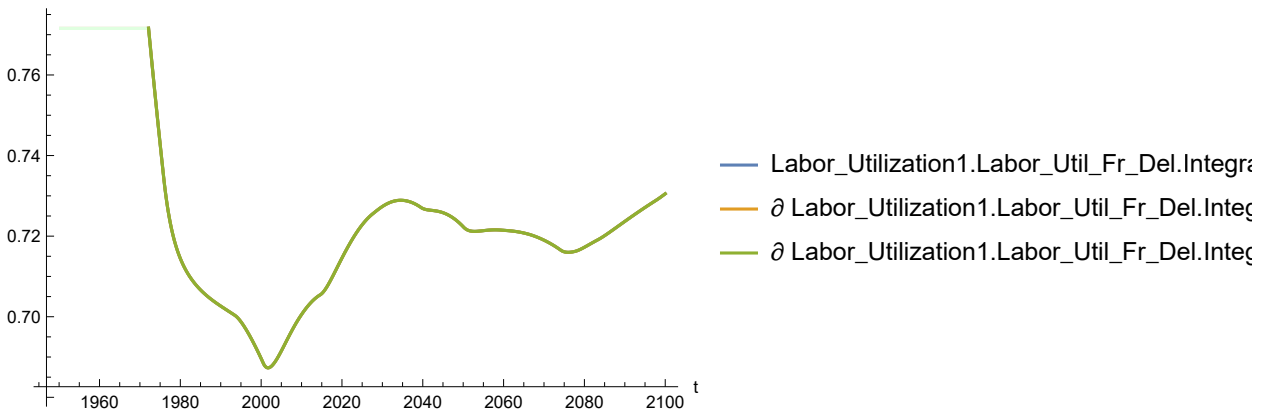
Out[163]=



In[164]:=

```
SystemModelPlot[simsensdata, {"Labor_Utilization1.Labor_Util_Fr_Del.Integrator1.y",
"Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[5]", percentvar}]
```

Out[164]=



In[165]:=

```
SystemModelPlot[simsensdata, {"Labor_Utilization1.Labor_Util_Fr_Del.Integrator1.y",
"Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[6]", percentvar}]
```

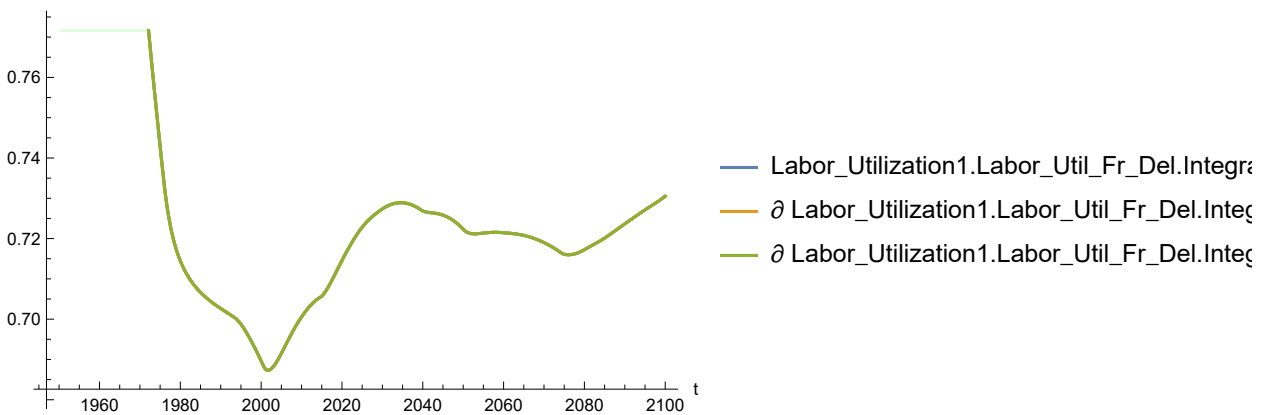
Out[165]=



In[166]:=

```
SystemModelPlot[simsensdata, {"Labor_Utilization1.Labor_Util_Fr_Del.Integrator1.y",
"Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[7]", percentvar}]
```

Out[166]=

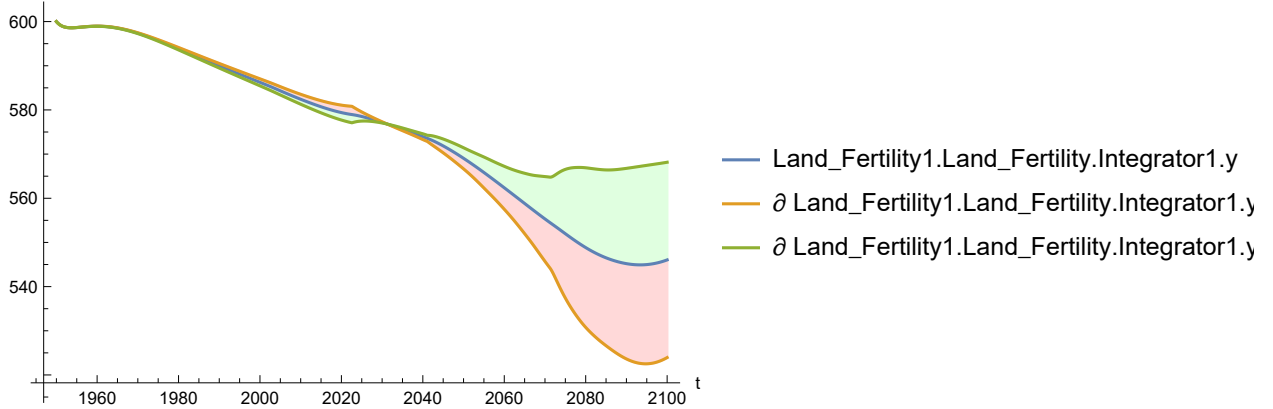


Plot the sensitivity of Land_Fertility1.Land_Fertility.Integrator1.y to Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals.

In[167]:=

```
SystemModelPlot[simsensdata, {"Land_Fertility1.Land_Fertility.Integrator1.y",
    "Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[1]", percentvar}]
```

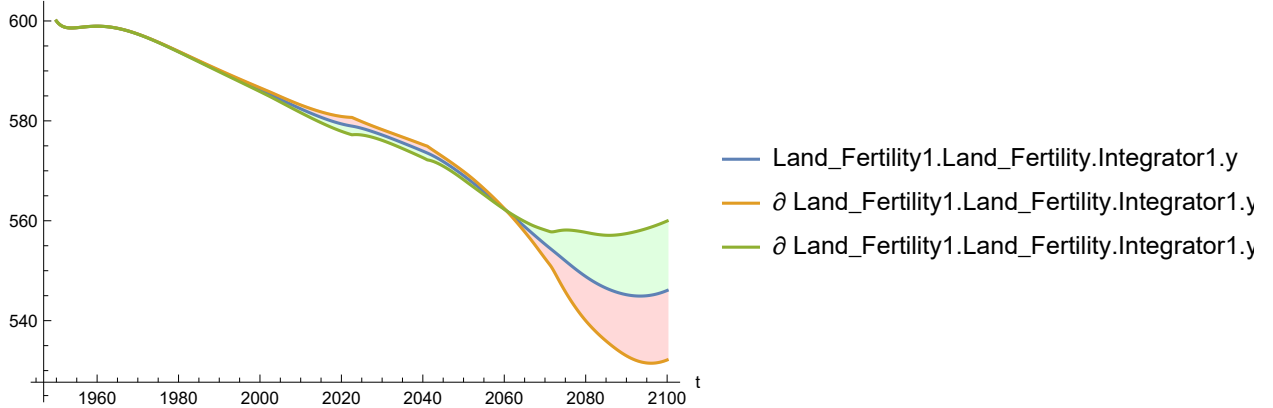
Out[167]=



In[168]:=

```
SystemModelPlot[simsensdata, {"Land_Fertility1.Land_Fertility.Integrator1.y",
    "Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[2]", percentvar}]
```

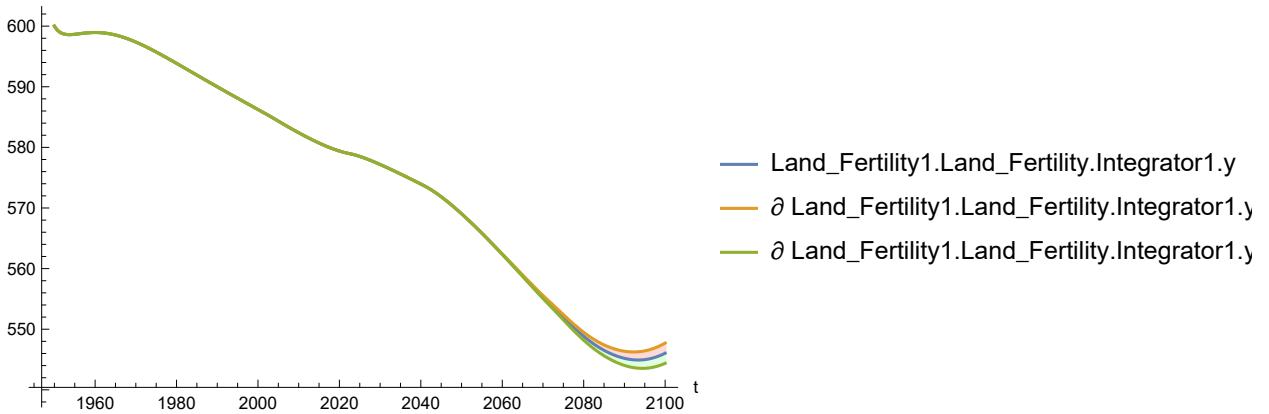
Out[168]=



In[169]:=

```
SystemModelPlot[simsensdata, {"Land_Fertility1.Land_Fertility.Integrator1.y",
"Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[3]", percentvar}]
```

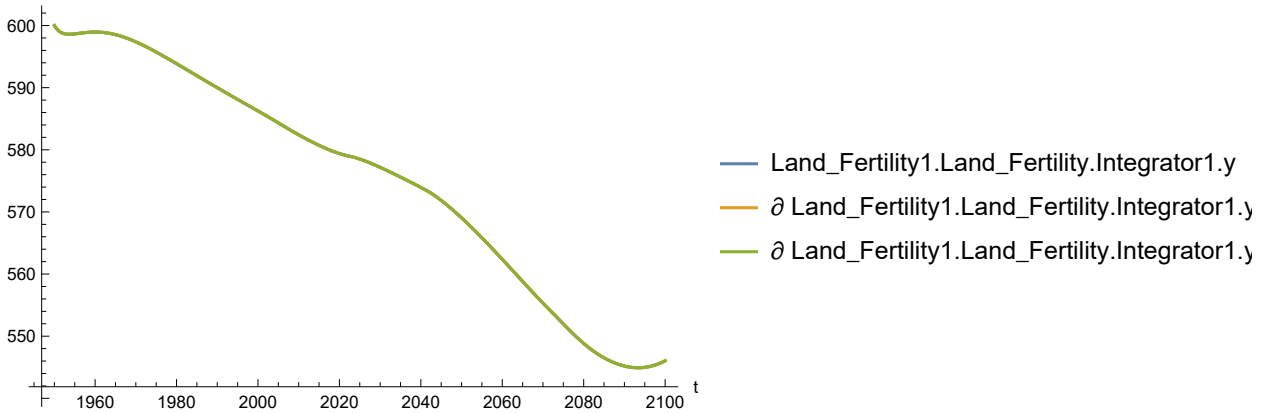
Out[169]=



In[170]:=

```
SystemModelPlot[simsensdata, {"Land_Fertility1.Land_Fertility.Integrator1.y",
"Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[4]", percentvar}]
```

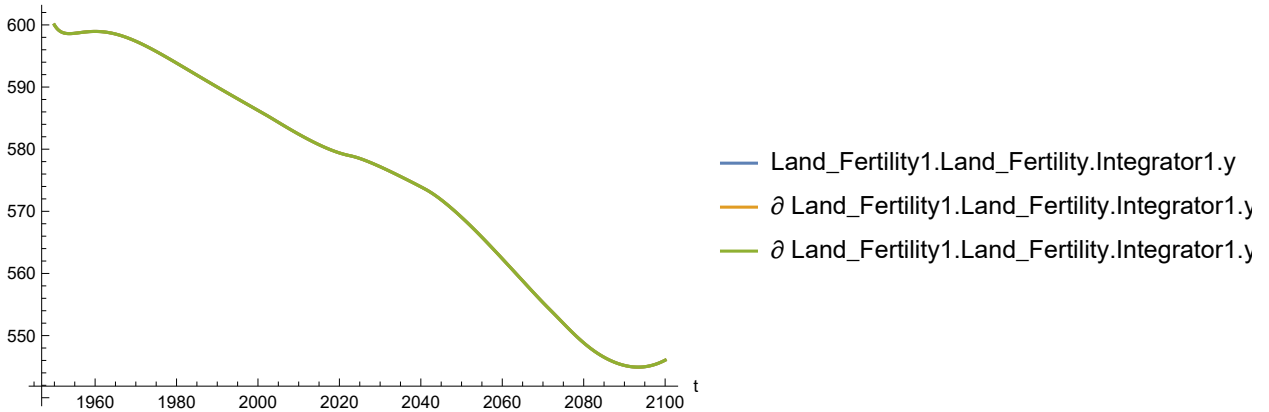
Out[170]=



In[171]:=

```
SystemModelPlot[simsensdata, {"Land_Fertility1.Land_Fertility.Integrator1.y",
"Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[5]", percentvar}]
```

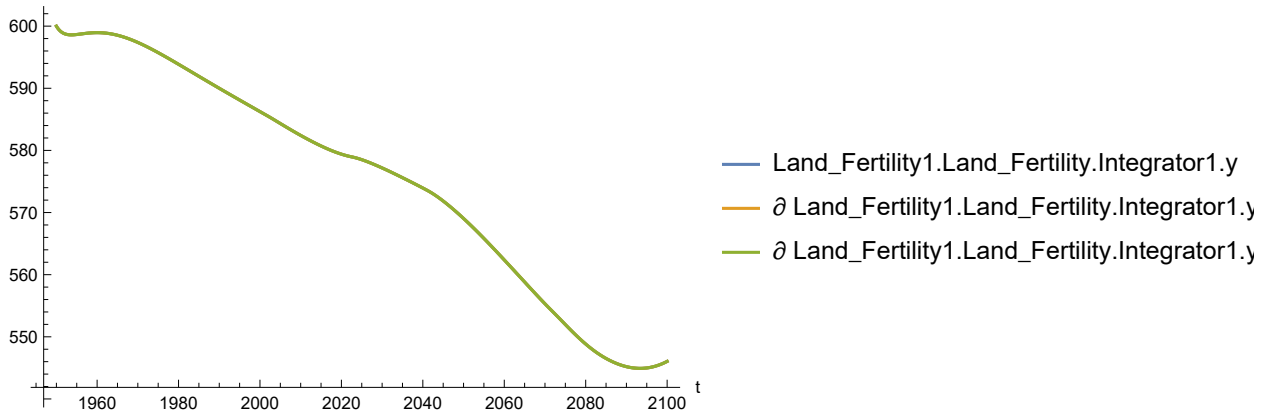
Out[171]=



In[172]:=

```
SystemModelPlot[simsensdata, {"Land_Fertility1.Land_Fertility.Integrator1.y",
    "Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[6]", percentvar}]
```

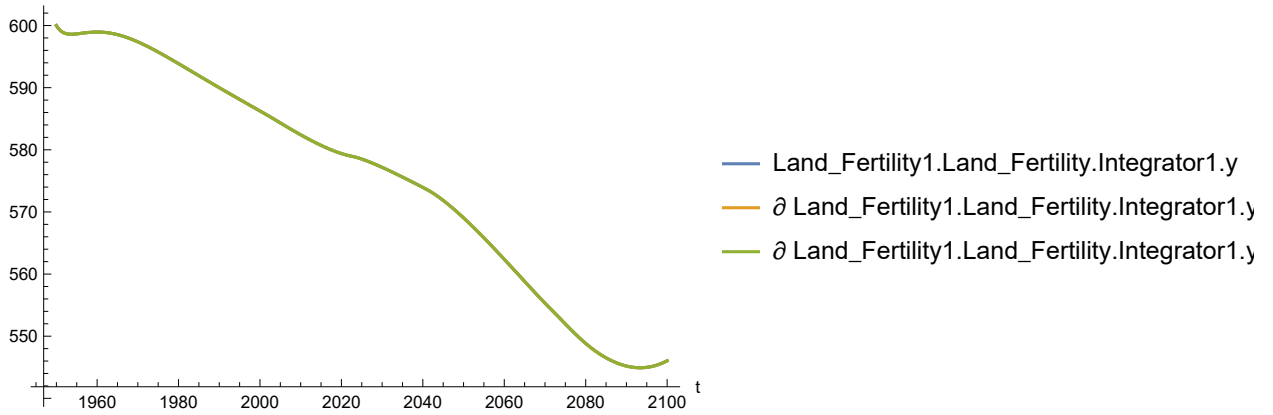
Out[172]=



In[173]:=

```
SystemModelPlot[simsensdata, {"Land_Fertility1.Land_Fertility.Integrator1.y",
    "Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[7]", percentvar}]
```

Out[173]=

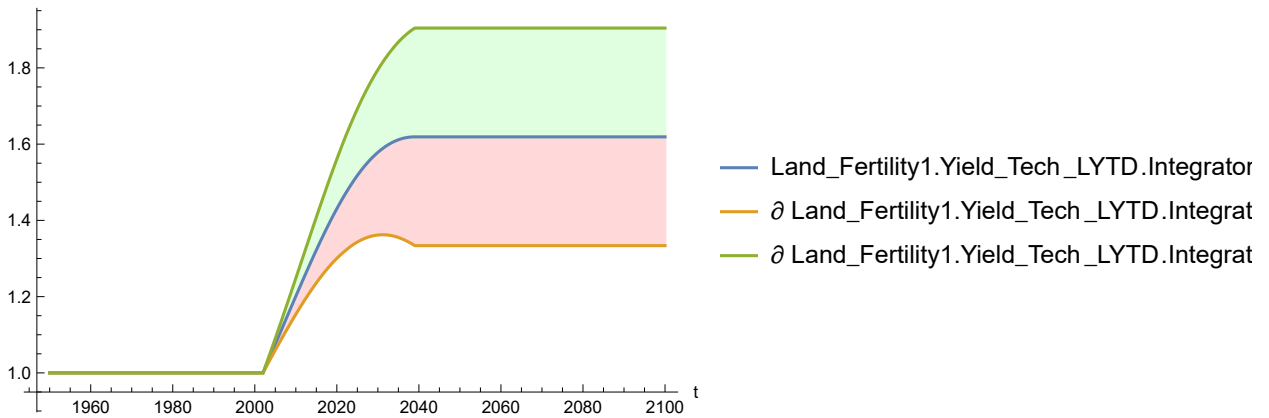


Plot the sensitivity of Land_Fertility1.Yield_Tech_LYTD.Integrator1.y to Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals.

In[174]:=

```
SystemModelPlot[simsensdata, {"Land_Fertility1.Yield_Tech_LYTD.Integrator1.y",
"Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[1]", percentvar}]
```

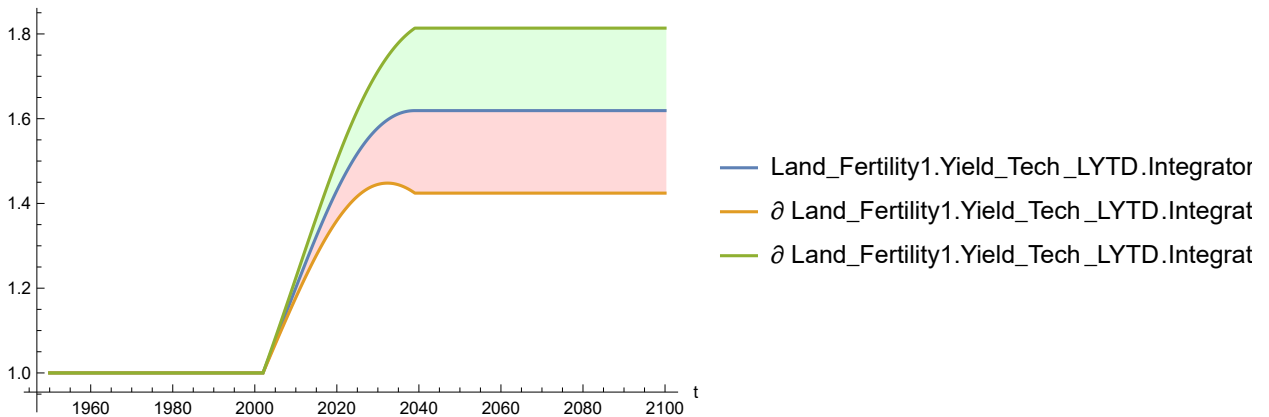
Out[174]=



In[175]:=

```
SystemModelPlot[simsensdata, {"Land_Fertility1.Yield_Tech_LYTD.Integrator1.y",
"Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[2]", percentvar}]
```

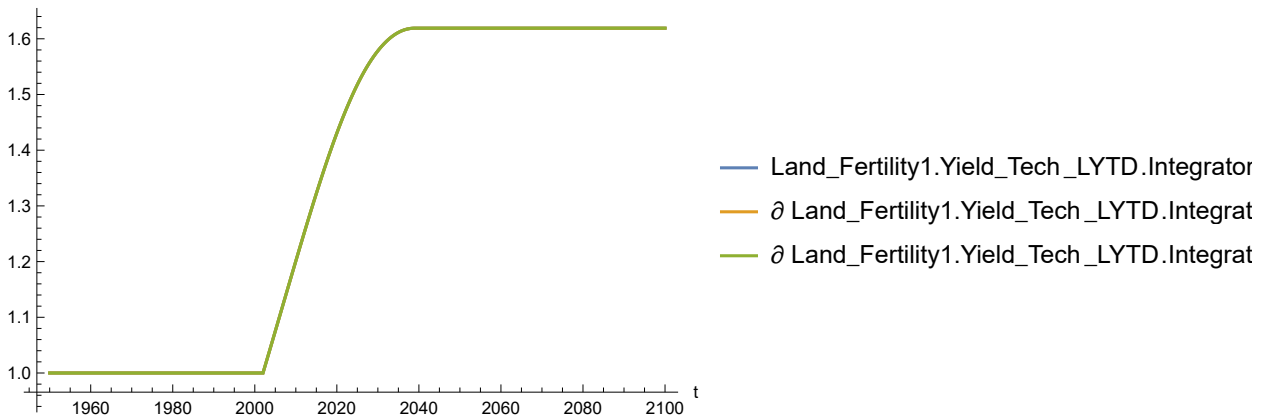
Out[175]=



In[176]:=

```
SystemModelPlot[simsensdata, {"Land_Fertility1.Yield_Tech_LYTD.Integrator1.y",
"Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[3]", percentvar}]
```

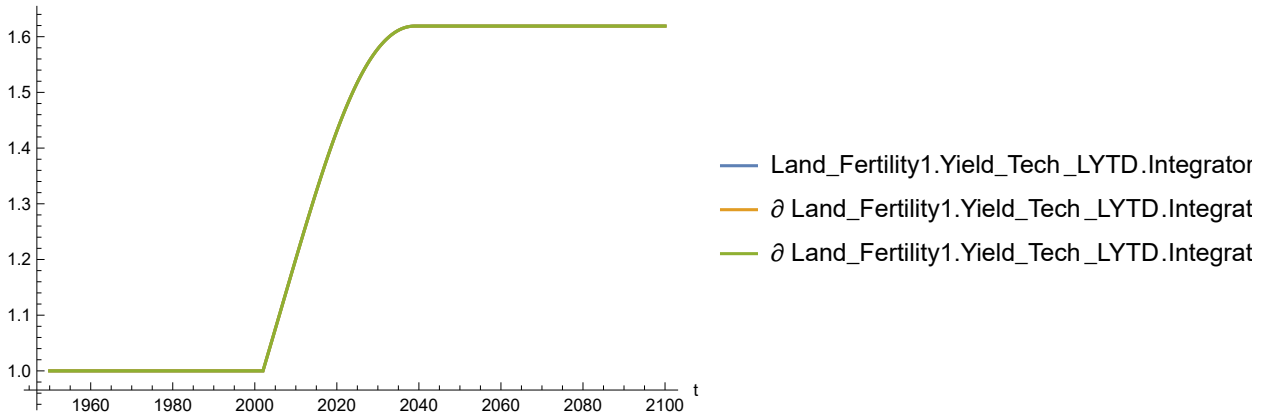
Out[176]=



In[177]:=

```
SystemModelPlot[simsensdata, {"Land_Fertility1.Yield_Tech_LYTD.Integrator1.y",
    "Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[4]", percentvar}]
```

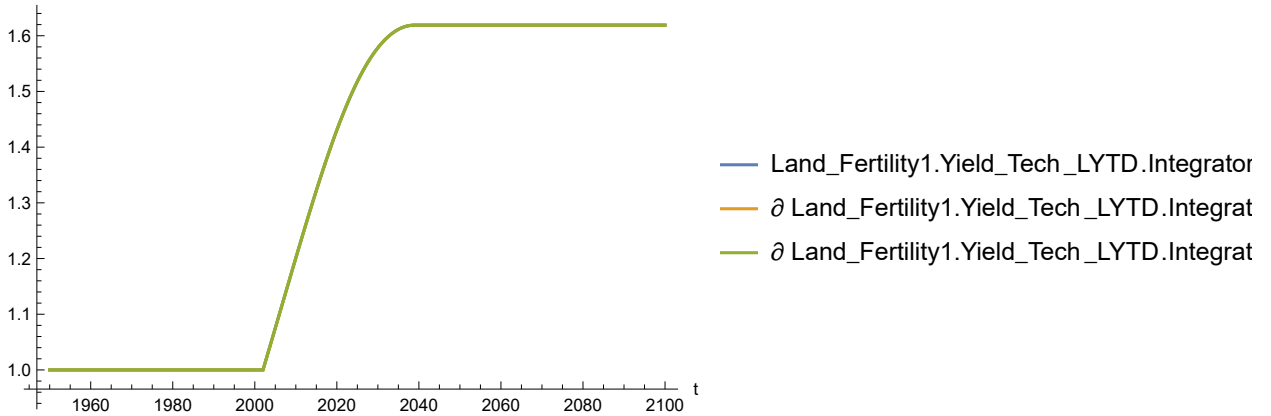
Out[177]=



In[178]:=

```
SystemModelPlot[simsensdata, {"Land_Fertility1.Yield_Tech_LYTD.Integrator1.y",
    "Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[5]", percentvar}]
```

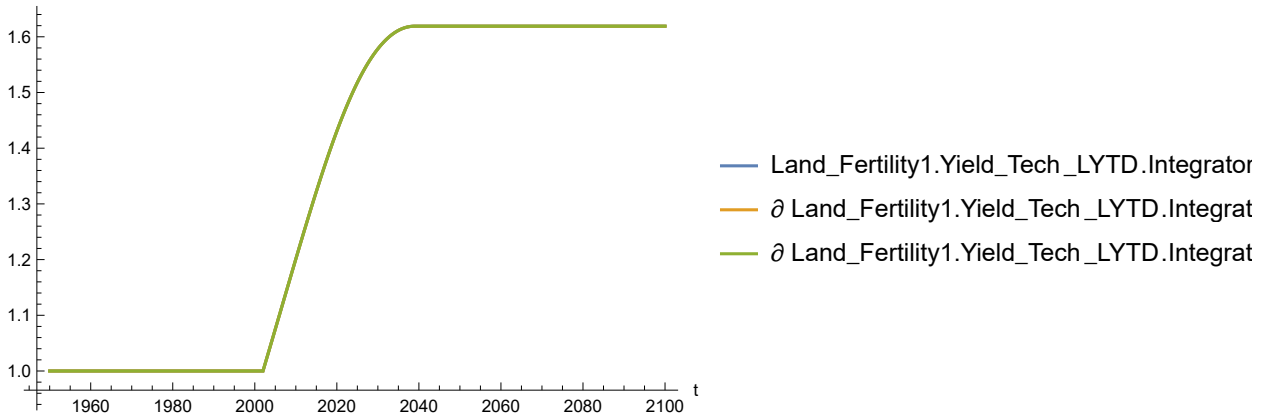
Out[178]=



In[179]:=

```
SystemModelPlot[simsensdata, {"Land_Fertility1.Yield_Tech_LYTD.Integrator1.y",
    "Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[6]", percentvar}]
```

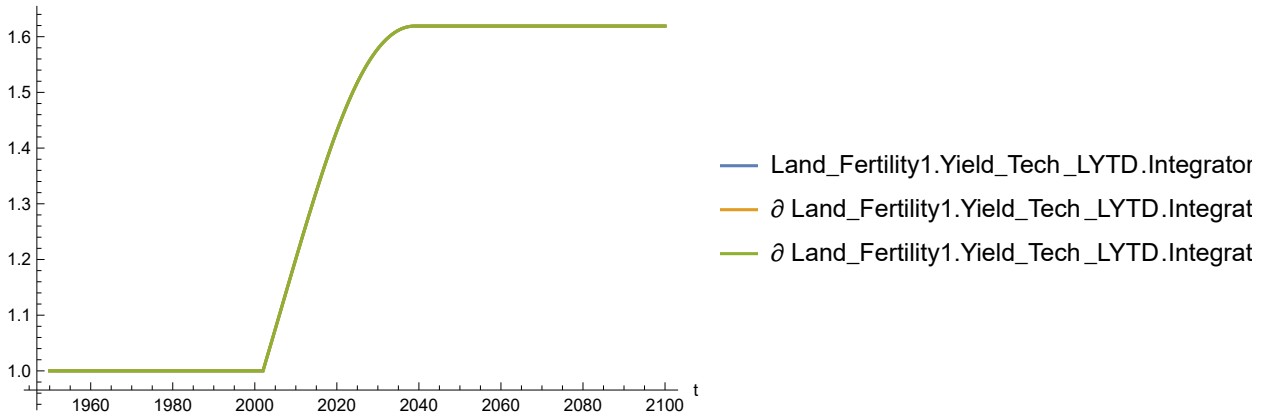
Out[179]=



In[180]:=

```
SystemModelPlot[simsensdata, {"Land_Fertility1.Yield_Tech_LYTD.Integrator1.y",
    "Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[7]", percentvar}]
```

Out[180]=

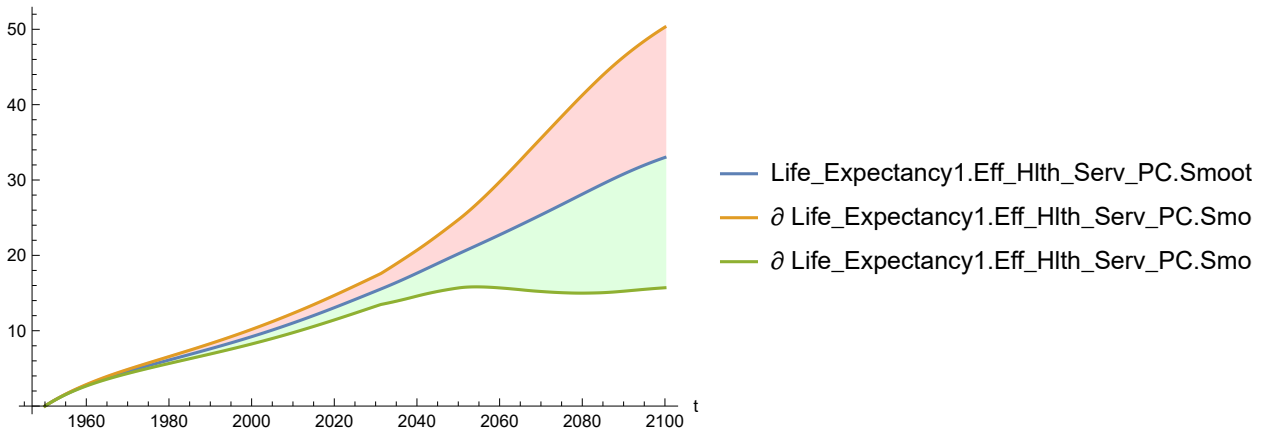


Plot the sensitivity of Life_Expectancy1.Eff_Hlth_Serv_PC.Smooth_of_Input.Integrator1.y to Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals.

In[181]:=

```
SystemModelPlot[simsensdata,
    {"Life_Expectancy1.Eff_Hlth_Serv_PC.Smooth_of_Input.Integrator1.y",
    "Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[1]", percentvar}]
```

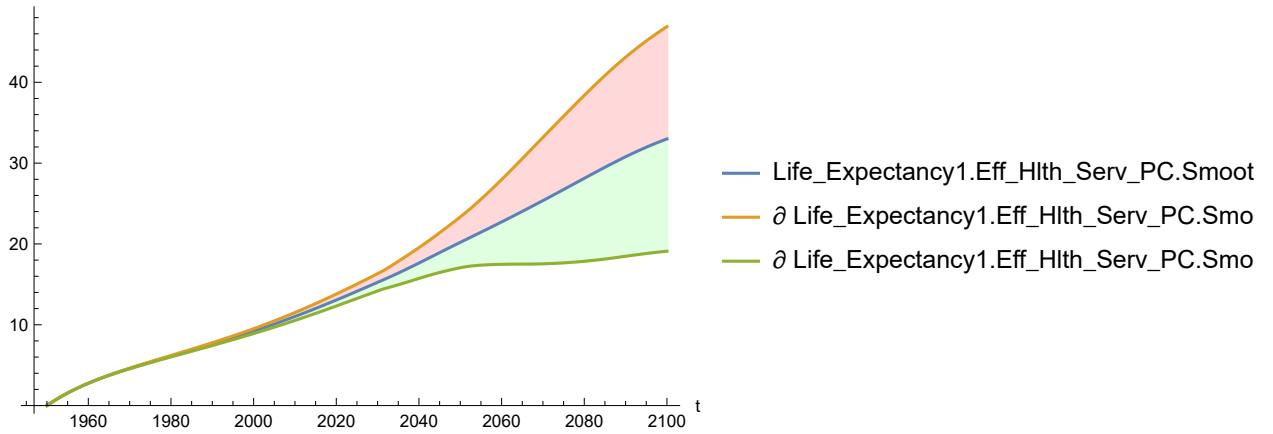
Out[181]=



In[182]:=

```
SystemModelPlot[simsensdata,
  {"Life_Expectancy1.Eff_Hlth_Serv_PC.Smooth_of_Input.Integrator1.y",
   "Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[2]", percentvar}]
```

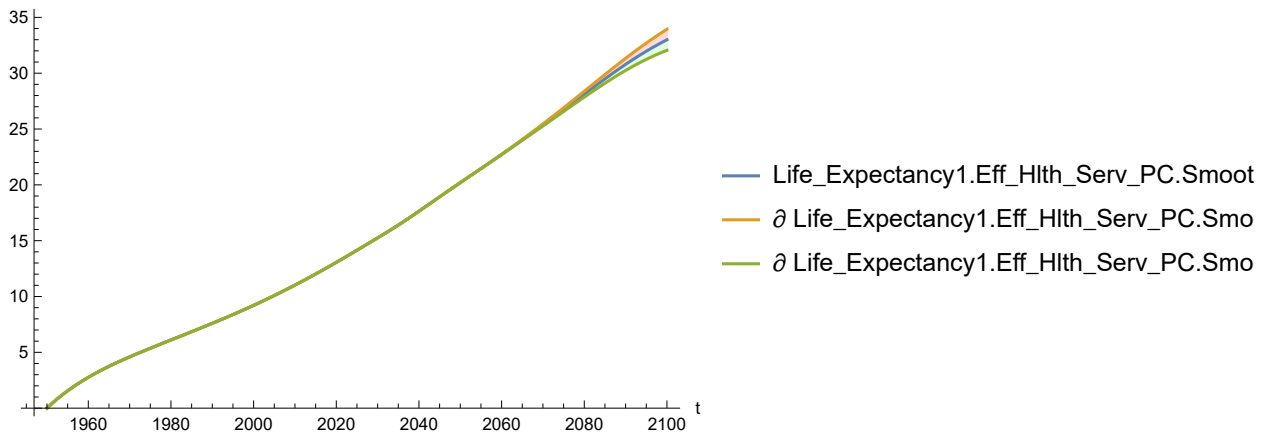
Out[182]=



In[183]:=

```
SystemModelPlot[simsensdata,
  {"Life_Expectancy1.Eff_Hlth_Serv_PC.Smooth_of_Input.Integrator1.y",
   "Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[3]", percentvar}]
```

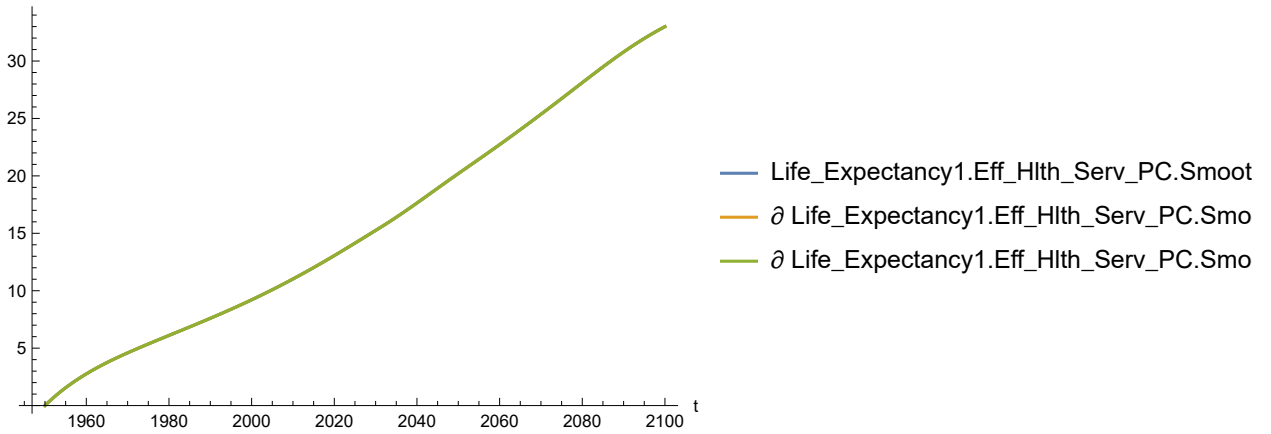
Out[183]=



In[184]:=

```
SystemModelPlot[simsensdata,
  {"Life_Expectancy1.Eff_Hlth_Serv_PC.Smooth_of_Input.Integrator1.y",
   "Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[4]", percentvar}]
```

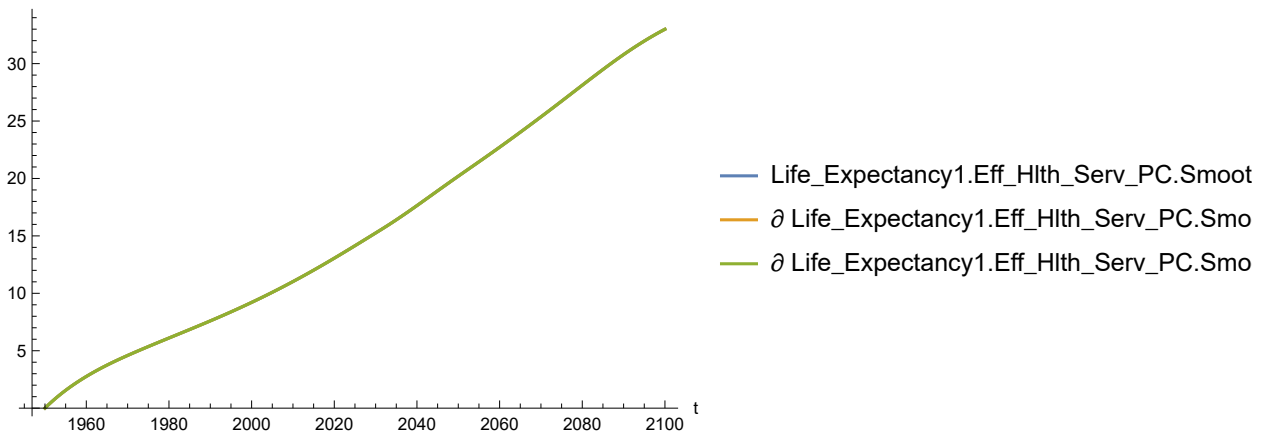
Out[184]=



In[185]:=

```
SystemModelPlot[simsensdata,
  {"Life_Expectancy1.Eff_Hlth_Serv_PC.Smooth_of_Input.Integrator1.y",
   "Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[5]", percentvar}]
```

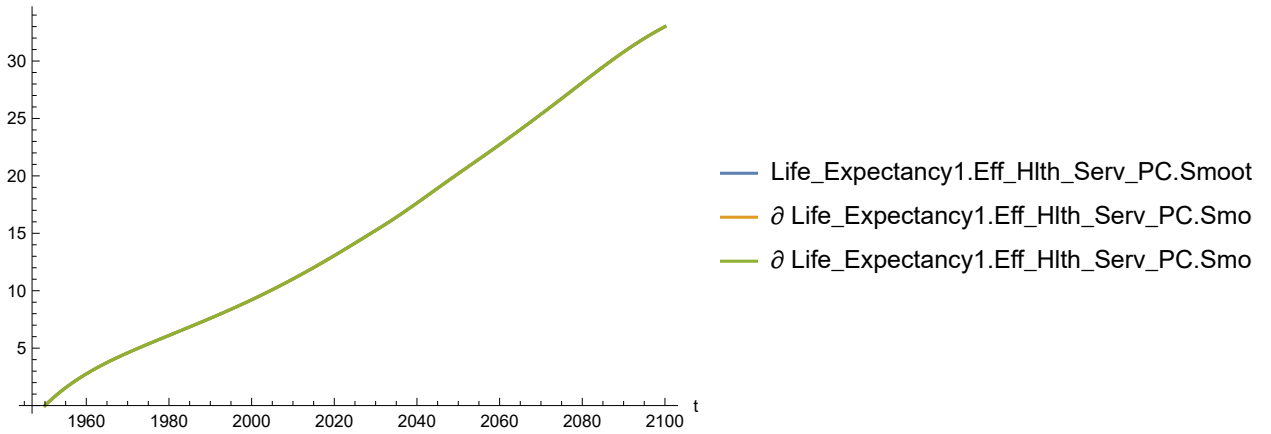
Out[185]=



In[186]:=

```
SystemModelPlot[simsensdata,
  {"Life_Expectancy1.Eff_Hlth_Serv_PC.Smooth_of_Input.Integrator1.y",
   "Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[6]", percentvar}]
```

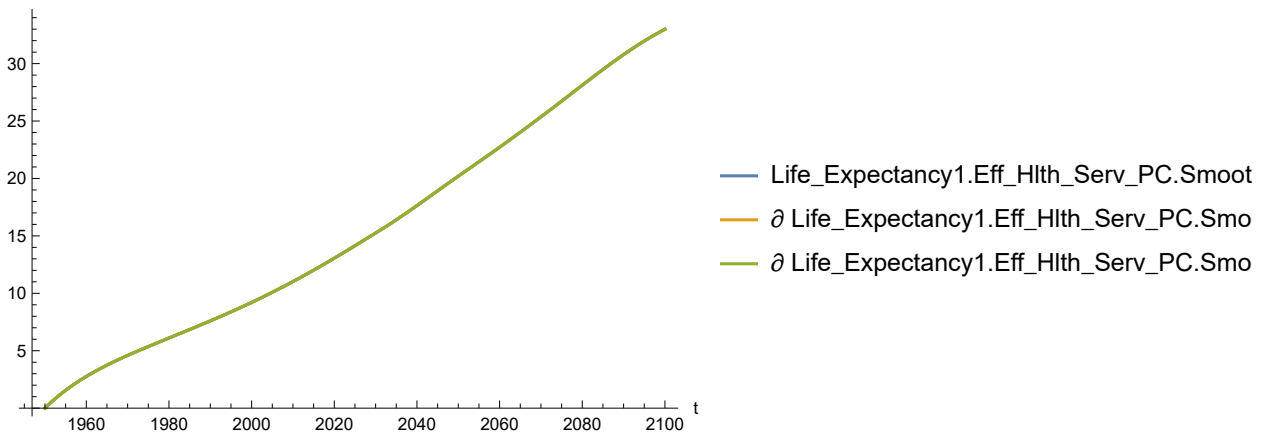
Out[186]=



In[187]:=

```
SystemModelPlot[simsensdata,
  {"Life_Expectancy1.Eff_Hlth_Serv_PC.Smooth_of_Input.Integrator1.y",
   "Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[7]", percentvar}]
```

Out[187]=

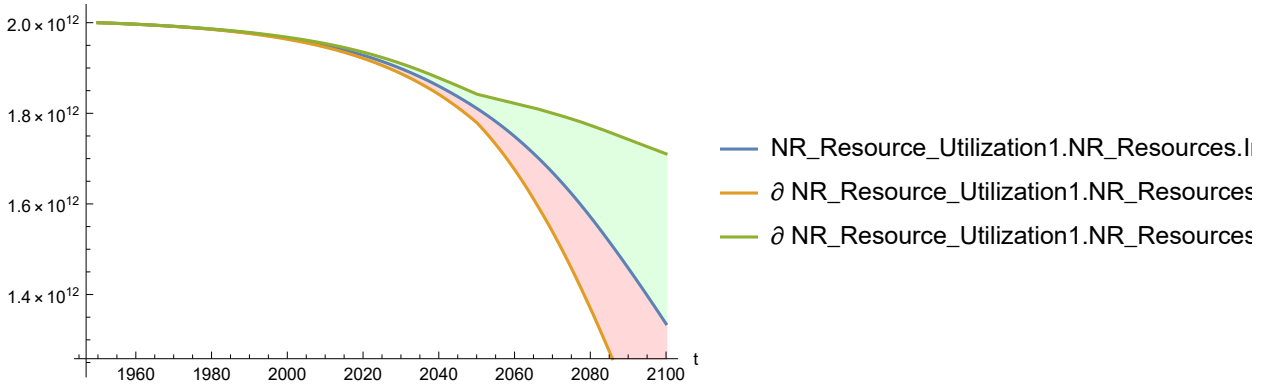


Plot the sensitivity of `NR_Resource_Utilization1.NR_Resources.Integrator1.y` to `Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals`.

In[188]:=

```
SystemModelPlot[simsensdata, {"NR_Resource_Utilization1.NR_Resources.Integrator1.y",
"Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[1]", percentvar}]
```

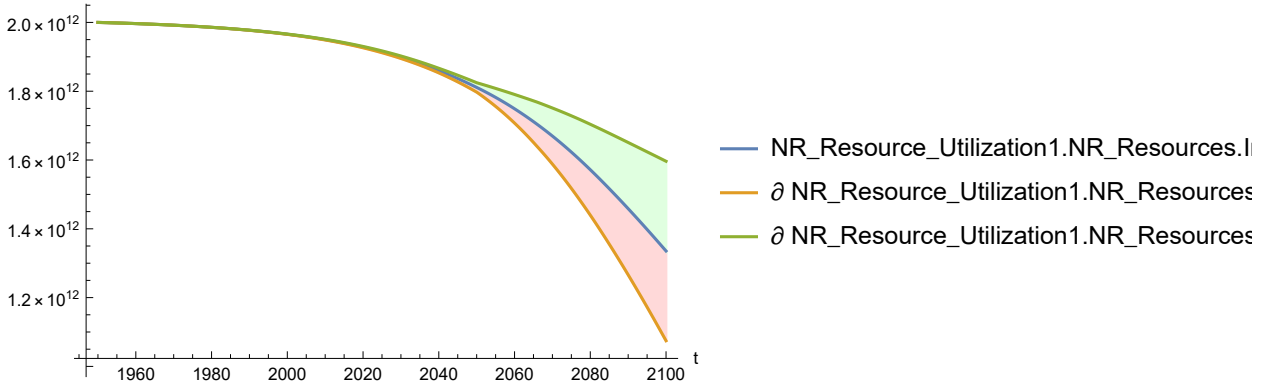
Out[188]=



In[189]:=

```
SystemModelPlot[simsensdata, {"NR_Resource_Utilization1.NR_Resources.Integrator1.y",
"Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[2]", percentvar}]
```

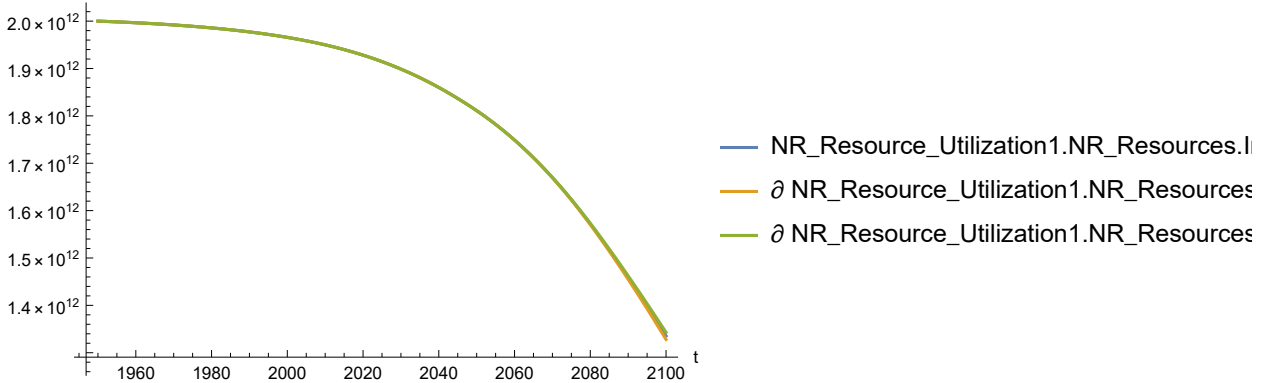
Out[189]=



In[190]:=

```
SystemModelPlot[simsensdata, {"NR_Resource_Utilization1.NR_Resources.Integrator1.y",
"Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[3]", percentvar}]
```

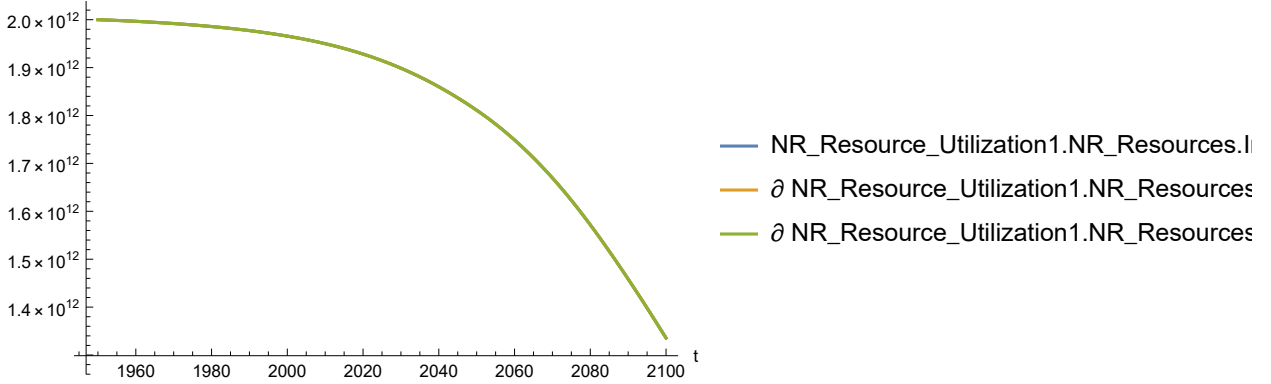
Out[190]=



In[191]:=

```
SystemModelPlot[simsensdata, {"NR_Resource_Utilization1.NR_Resources.Integrator1.y",
"Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[4]", percentvar}]
```

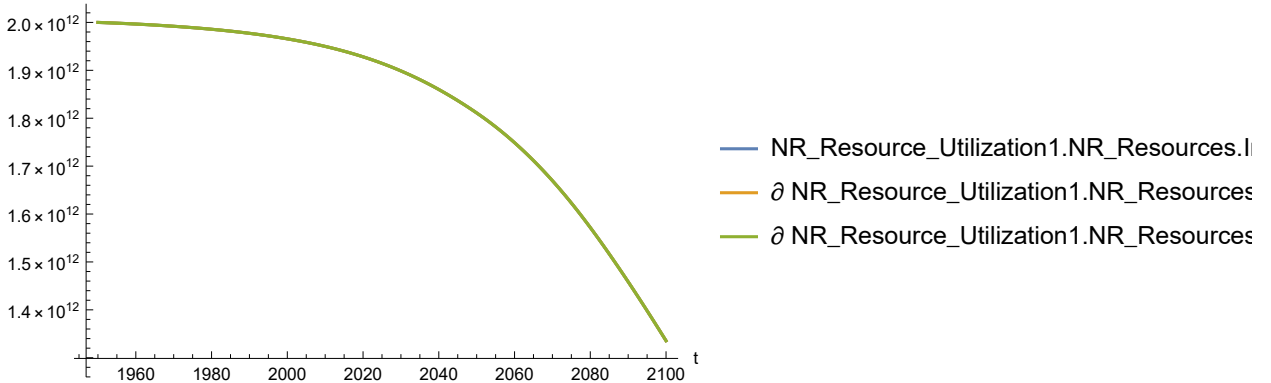
Out[191]=



In[192]:=

```
SystemModelPlot[simsensdata, {"NR_Resource_Utilization1.NR_Resources.Integrator1.y",
"Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[5]", percentvar}]
```

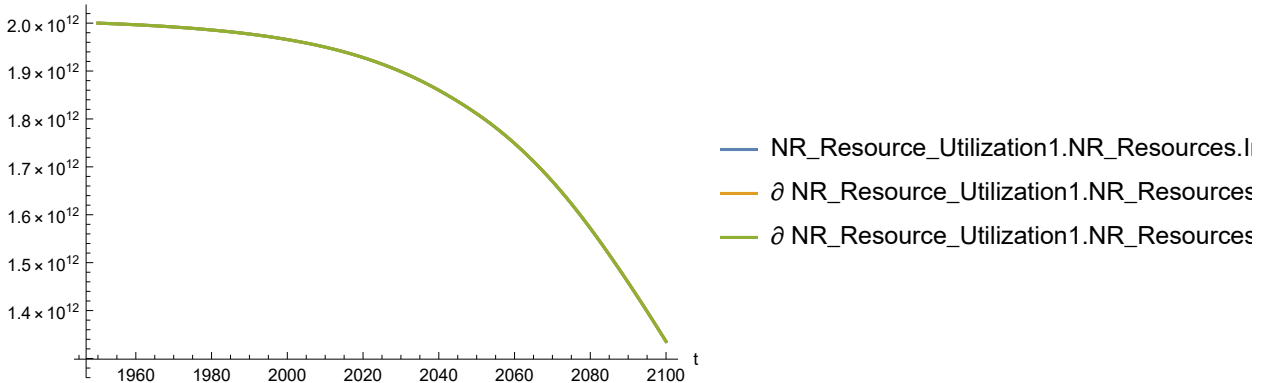
Out[192]=



In[193]:=

```
SystemModelPlot[simsensdata, {"NR_Resource_Utilization1.NR_Resources.Integrator1.y",
"Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[6]", percentvar}]
```

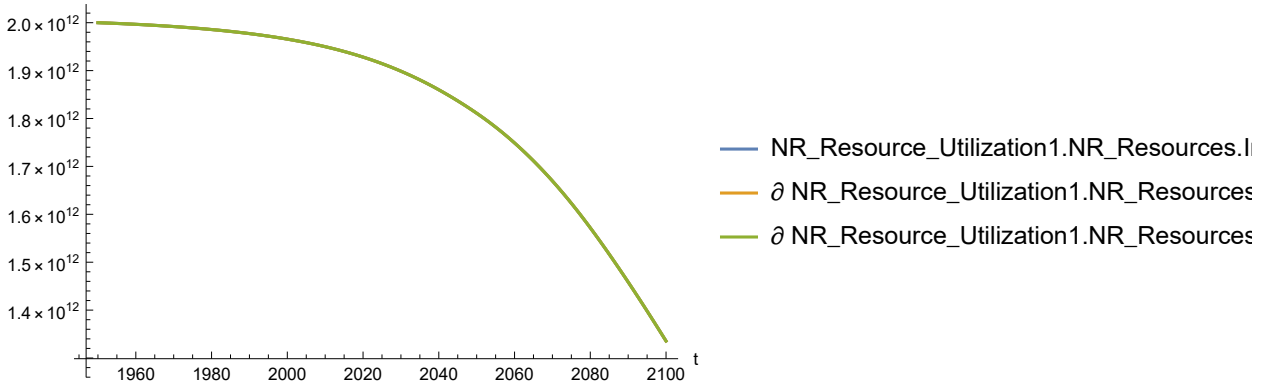
Out[193]=



In[194]:=

```
SystemModelPlot[simsensdata, {"NR_Resource_Utilization1.NR_Resources.Integrator1.y",
"Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[7]", percentvar}]
```

Out[194]=

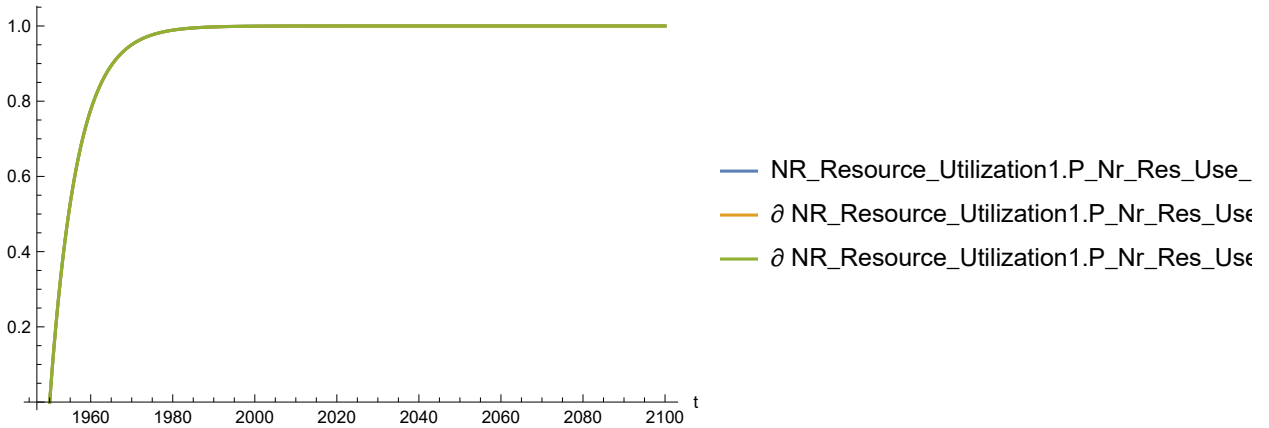


Plot the sensitivity of NR_Resource_Utilization1.P_Nr_Res_Use_Fact_2.Smooth1.Integrator1.y to Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals.

In[195]:=

```
SystemModelPlot[simsensdata, {"NR_Resource_Utilization1.P_Nr_Res_Use_Fact_2.Smooth1.Integrator1.y",
"Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[1]", percentvar}]
```

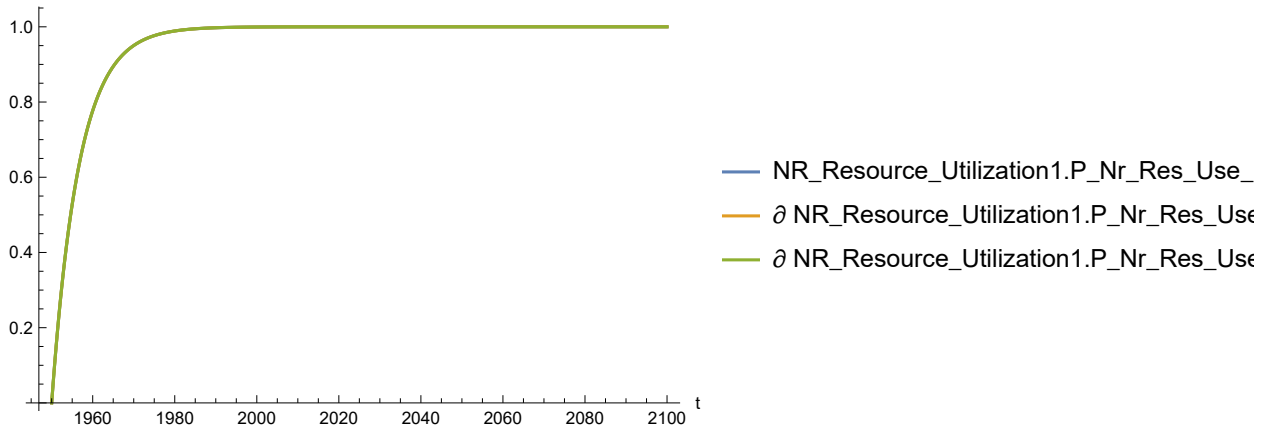
Out[195]=



In[196]:=

```
SystemModelPlot[simsensdata,
  {"NR_Resource_Utilization1.P_Nr_Res_Use_Fact_2.Smooth1.Integrator1.y",
   "Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[2]", percentvar}]
```

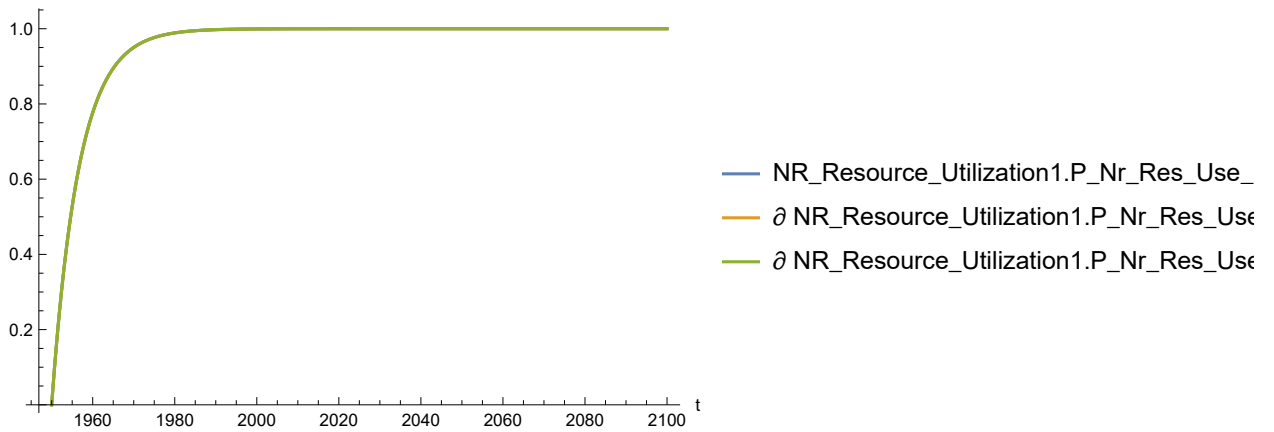
Out[196]=



In[197]:=

```
SystemModelPlot[simsensdata,
  {"NR_Resource_Utilization1.P_Nr_Res_Use_Fact_2.Smooth1.Integrator1.y",
   "Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[3]", percentvar}]
```

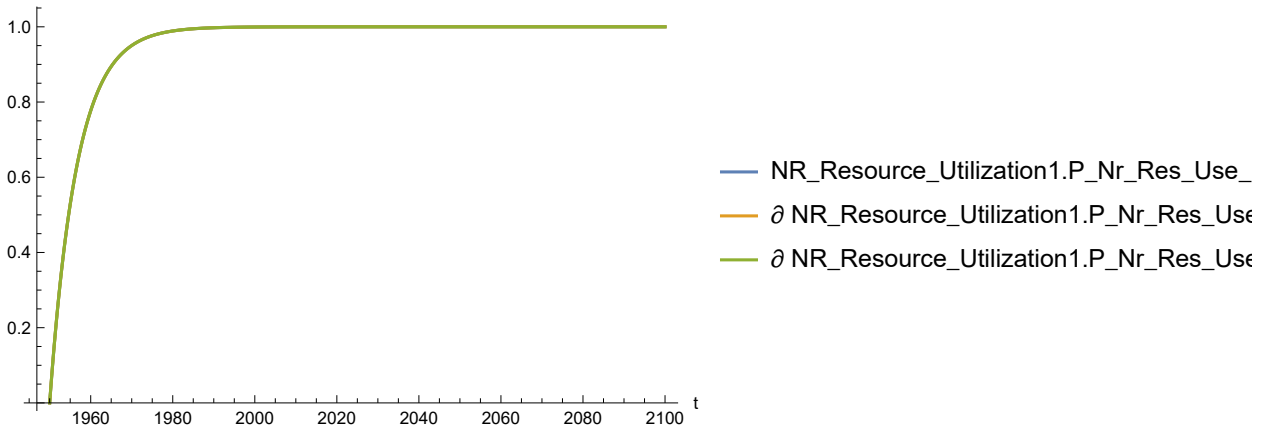
Out[197]=



In[198]:=

```
SystemModelPlot[simsensdata,
  {"NR_Resource_Utilization1.P_Nr_Res_Use_Fact_2.Smooth1.Integrator1.y",
   "Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[4]", percentvar}]
```

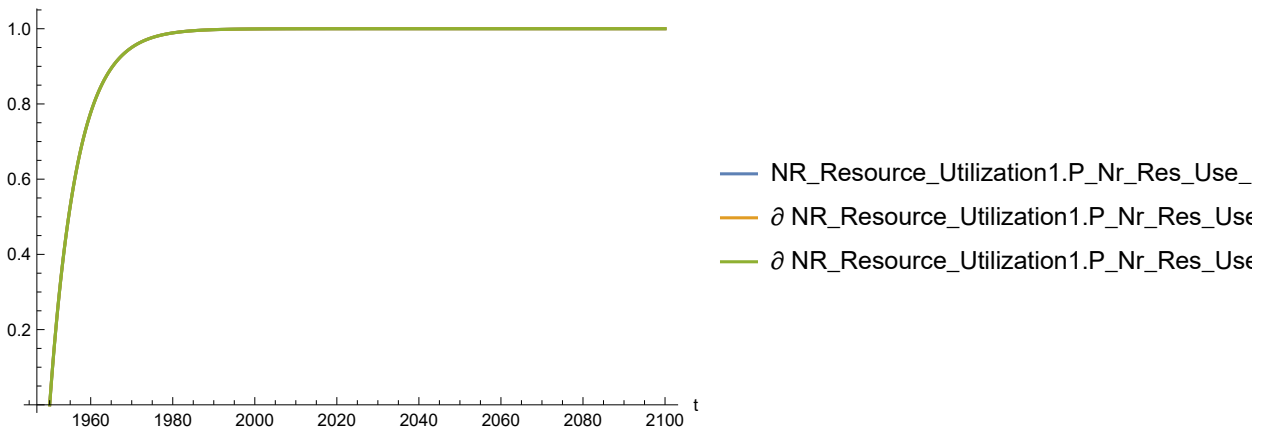
Out[198]=



In[199]:=

```
SystemModelPlot[simsensdata,
  {"NR_Resource_Utilization1.P_Nr_Res_Use_Fact_2.Smooth1.Integrator1.y",
   "Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[5]", percentvar}]
```

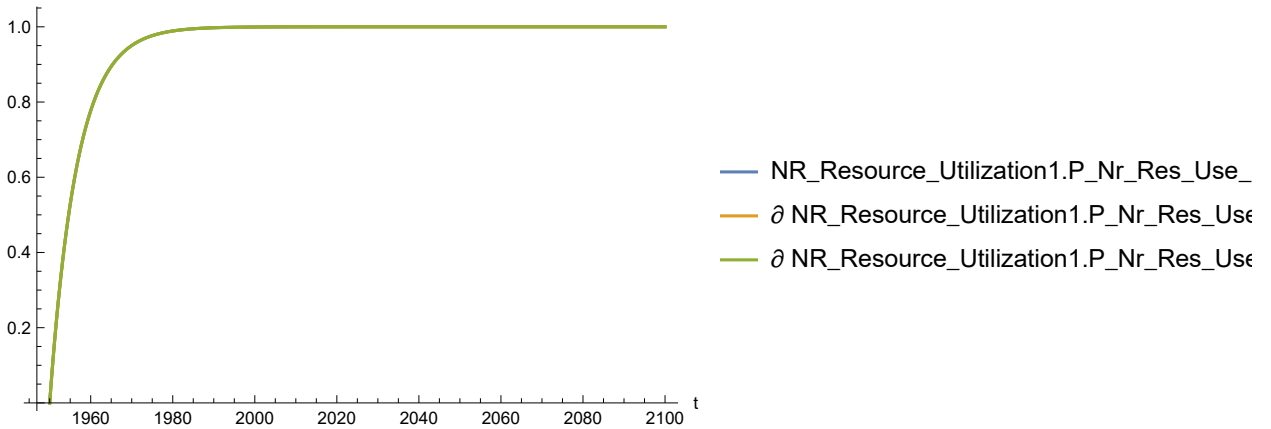
Out[199]=



In[200]:=

```
SystemModelPlot[simsensdata,
  {"NR_Resource_Utilization1.P_Nr_Res_Use_Fact_2.Smooth1.Integrator1.y",
   "Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[6]", percentvar}]
```

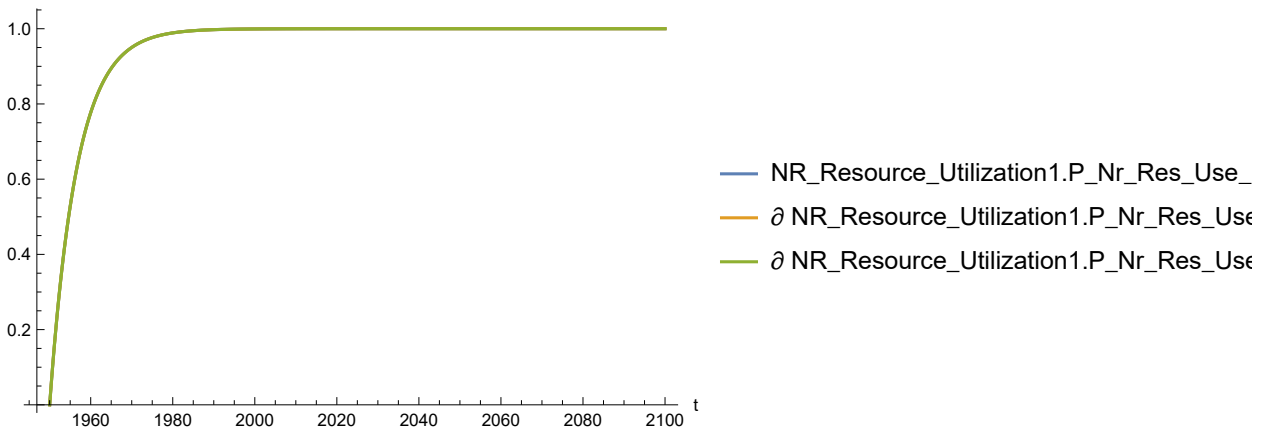
Out[200]=



In[201]:=

```
SystemModelPlot[simsensdata,
  {"NR_Resource_Utilization1.P_Nr_Res_Use_Fact_2.Smooth1.Integrator1.y",
   "Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[7]", percentvar}]
```

Out[201]=

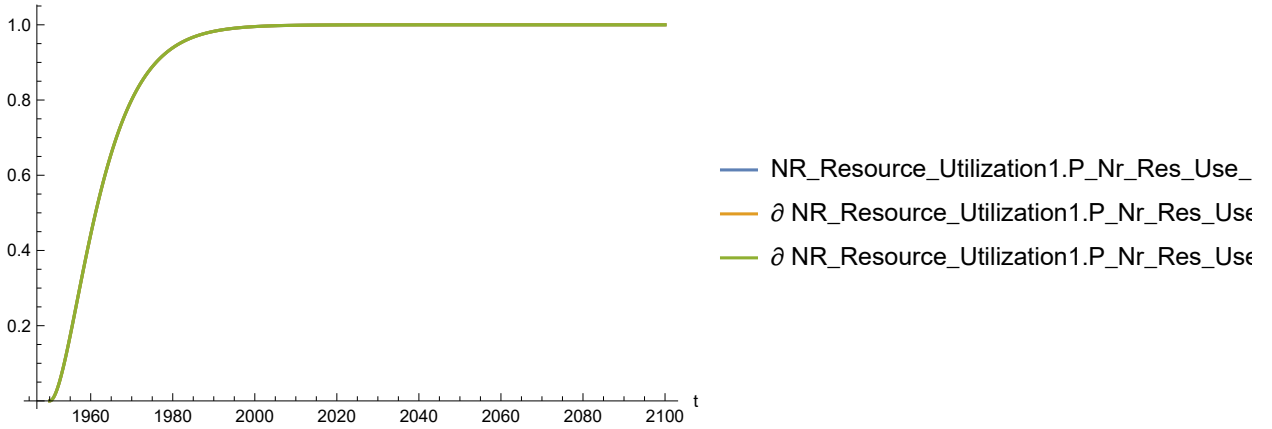


Plot the sensitivity of NR_Resource_Utilization1.P_Nr_Res_Use_Fact_2.Smooth2.Integrator1.y to Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals.

In[202]:=

```
SystemModelPlot[simsensdata,
  {"NR_Resource_Utilization1.P_Nr_Res_Use_Fact_2.Smooth2.Integrator1.y",
   "Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[1]", percentvar}]
```

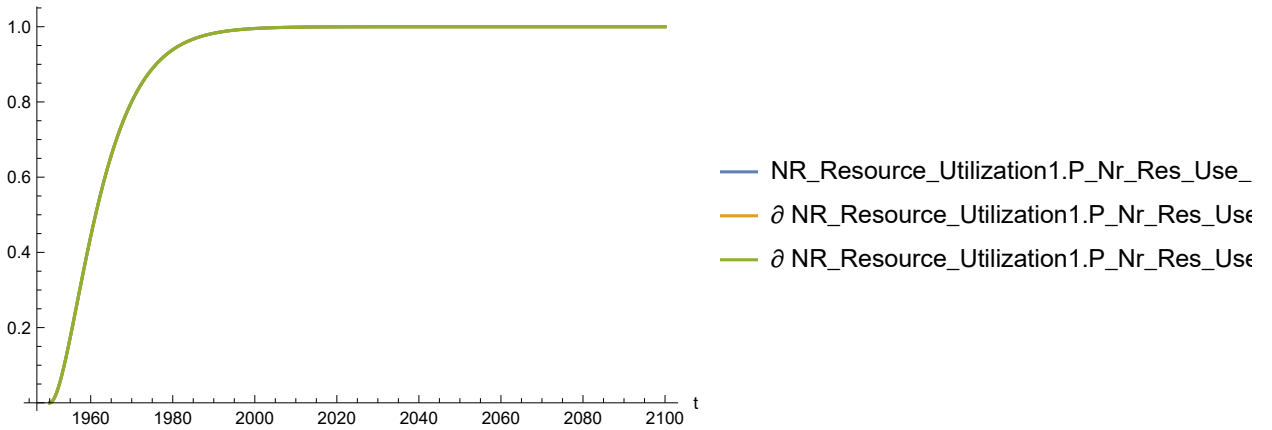
Out[202]=



In[203]:=

```
SystemModelPlot[simsensdata,
  {"NR_Resource_Utilization1.P_Nr_Res_Use_Fact_2.Smooth2.Integrator1.y",
   "Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[2]", percentvar}]
```

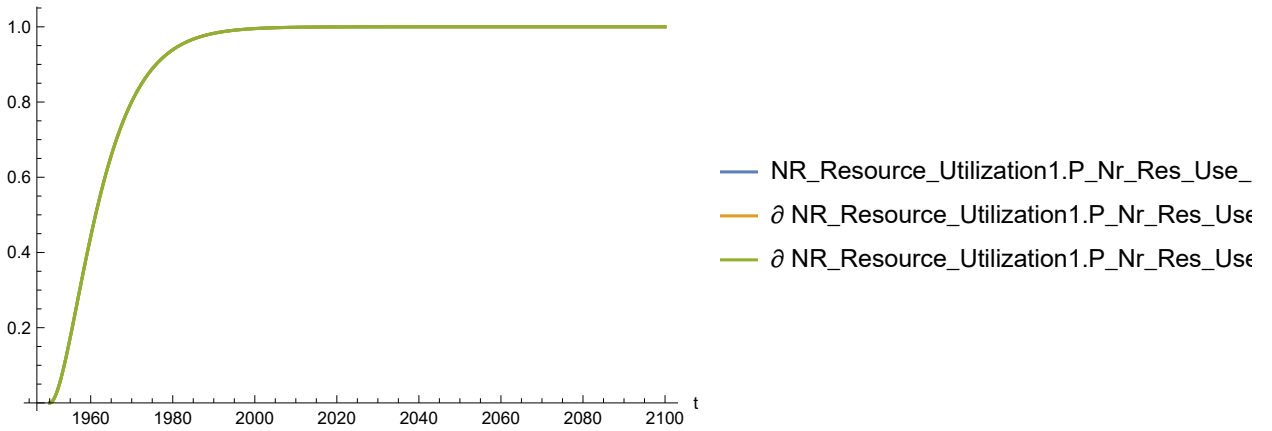
Out[203]=



In[204]:=

```
SystemModelPlot[simsensdata,
  {"NR_Resource_Utilization1.P_Nr_Res_Use_Fact_2.Smooth2.Integrator1.y",
   "Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[3]", percentvar}]
```

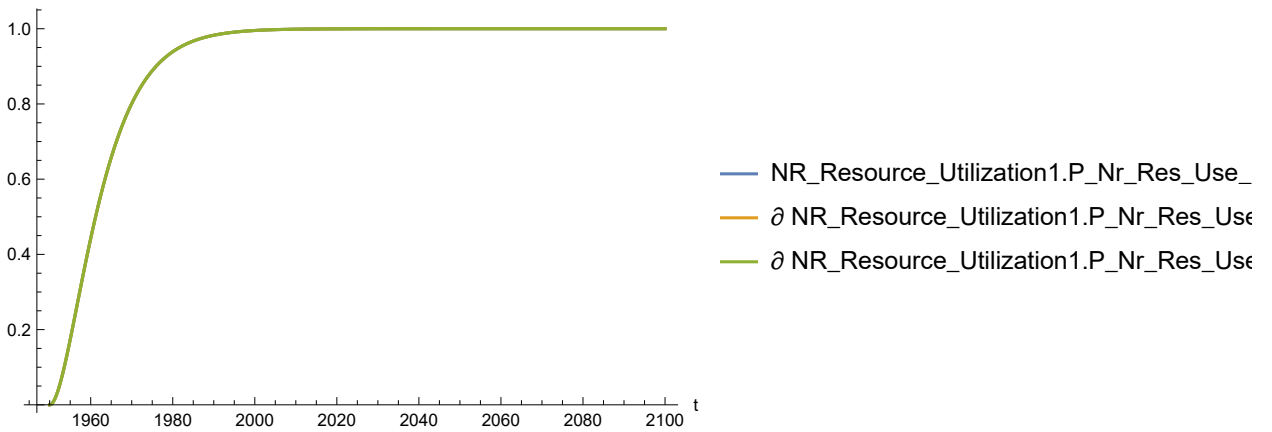
Out[204]=



In[205]:=

```
SystemModelPlot[simsensdata,
  {"NR_Resource_Utilization1.P_Nr_Res_Use_Fact_2.Smooth2.Integrator1.y",
   "Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[4]", percentvar}]
```

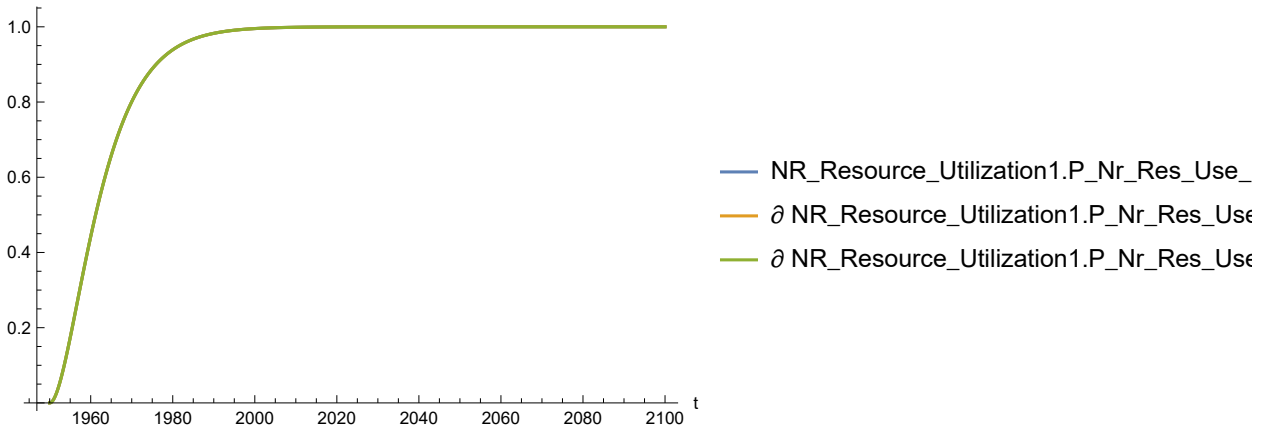
Out[205]=



In[206]:=

```
SystemModelPlot[simsensdata,
  {"NR_Resource_Utilization1.P_Nr_Res_Use_Fact_2.Smooth2.Integrator1.y",
   "Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[5]", percentvar}]
```

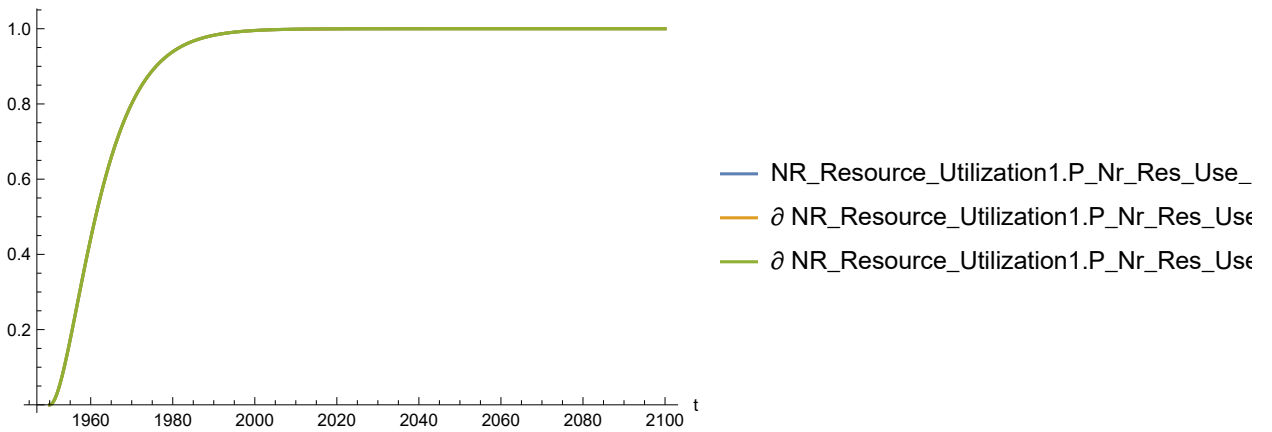
Out[206]=



In[207]:=

```
SystemModelPlot[simsensdata,
  {"NR_Resource_Utilization1.P_Nr_Res_Use_Fact_2.Smooth2.Integrator1.y",
   "Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[6]", percentvar}]
```

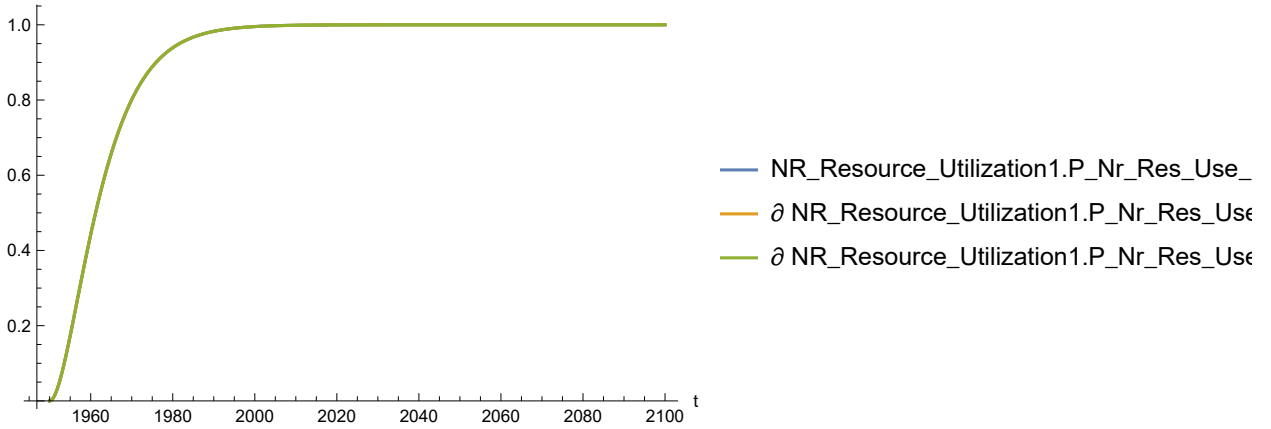
Out[207]=



In[208]:=

```
SystemModelPlot[simsensdata,
  {"NR_Resource_Utilization1.P_Nr_Res_Use_Fact_2.Smooth2.Integrator1.y",
   "Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[7]", percentvar}]
```

Out[208]=

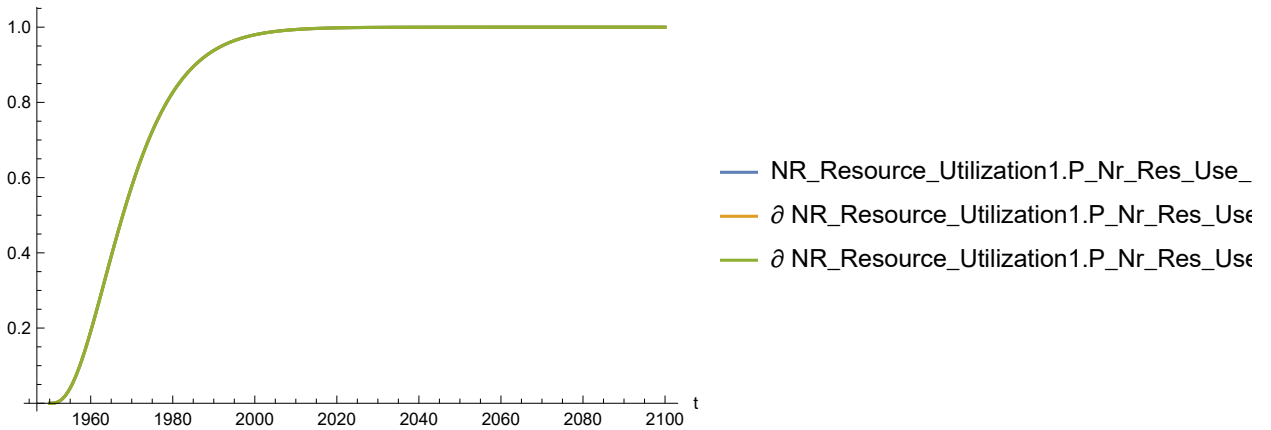


Plot the sensitivity of NR_Resource_Utilization1.P_Nr_Res_Use_Fact_2.Smooth3.Integrator1.y to Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals.

In[209]:=

```
SystemModelPlot[simsensdata,
  {"NR_Resource_Utilization1.P_Nr_Res_Use_Fact_2.Smooth3.Integrator1.y",
   "Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[1]", percentvar}]
```

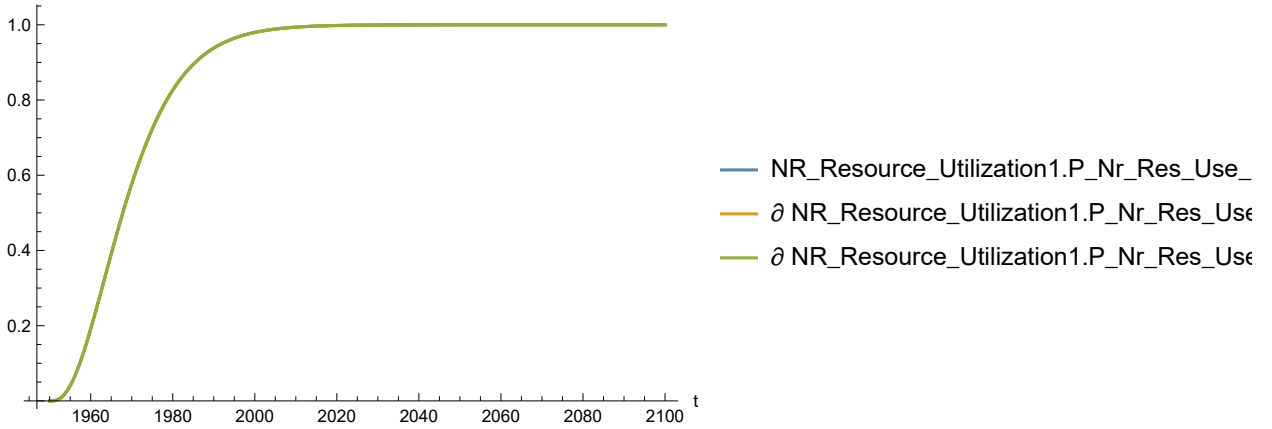
Out[209]=



In[210]:=

```
SystemModelPlot[simsensdata,
  {"NR_Resource_Utilization1.P_Nr_Res_Use_Fact_2.Smooth3.Integrator1.y",
   "Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[2]", percentvar}]
```

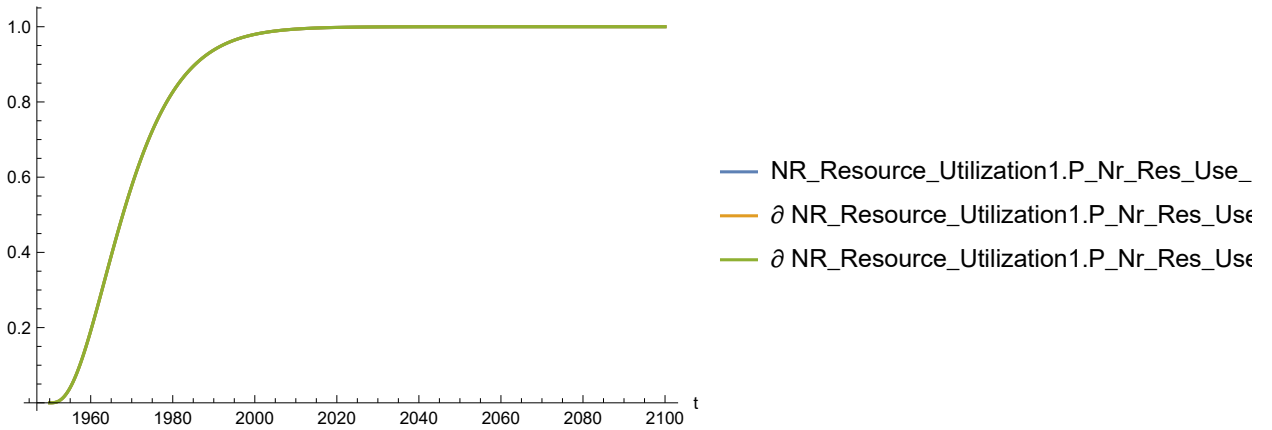
Out[210]=



In[211]:=

```
SystemModelPlot[simsensdata,
  {"NR_Resource_Utilization1.P_Nr_Res_Use_Fact_2.Smooth3.Integrator1.y",
   "Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[3]", percentvar}]
```

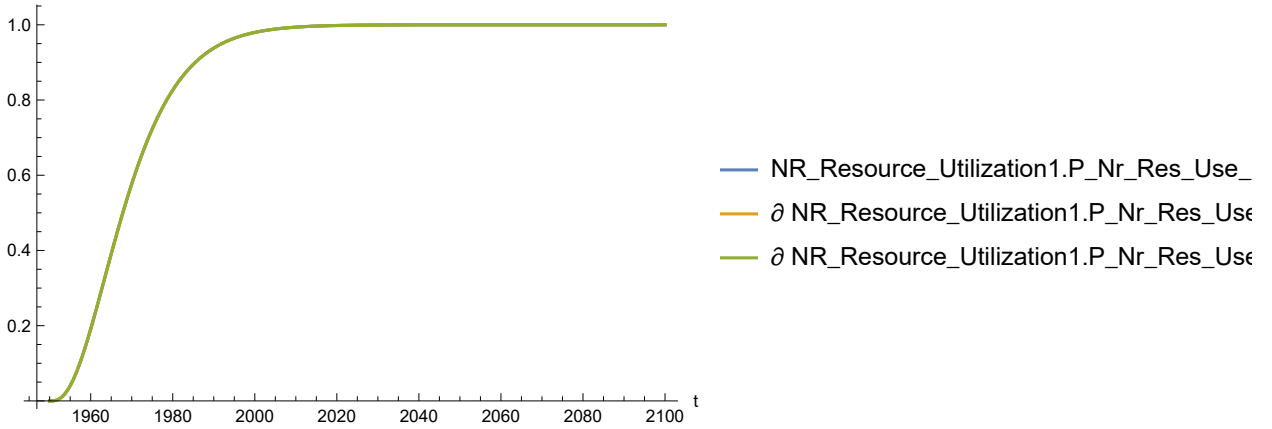
Out[211]=



In[212]:=

```
SystemModelPlot[simsensdata,
  {"NR_Resource_Utilization1.P_Nr_Res_Use_Fact_2.Smooth3.Integrator1.y",
   "Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[4]", percentvar}]
```

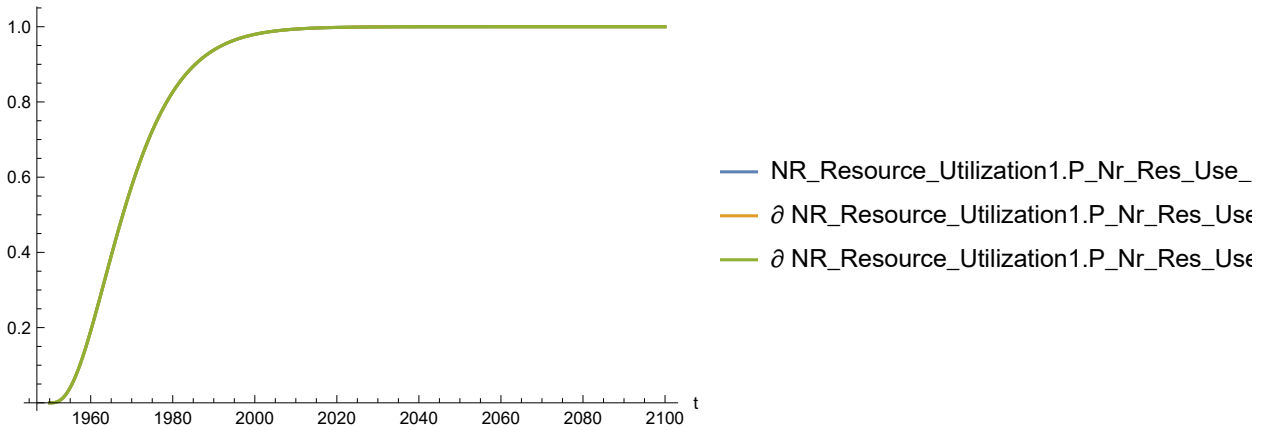
Out[212]=



In[213]:=

```
SystemModelPlot[simsensdata,
  {"NR_Resource_Utilization1.P_Nr_Res_Use_Fact_2.Smooth3.Integrator1.y",
   "Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[5]", percentvar}]
```

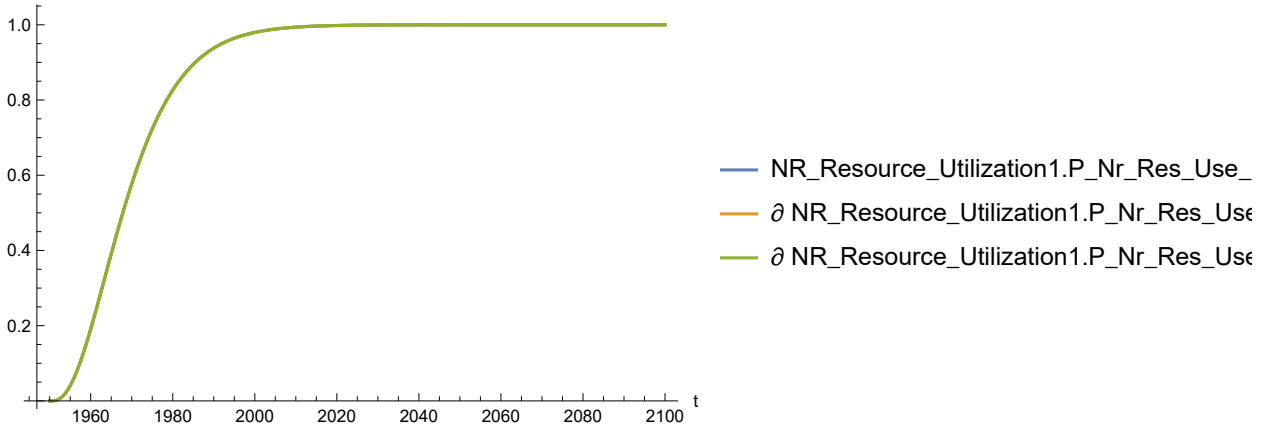
Out[213]=



In[214]:=

```
SystemModelPlot[simsensdata,
  {"NR_Resource_Utilization1.P_Nr_Res_Use_Fact_2.Smooth3.Integrator1.y",
   "Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[6]", percentvar}]
```

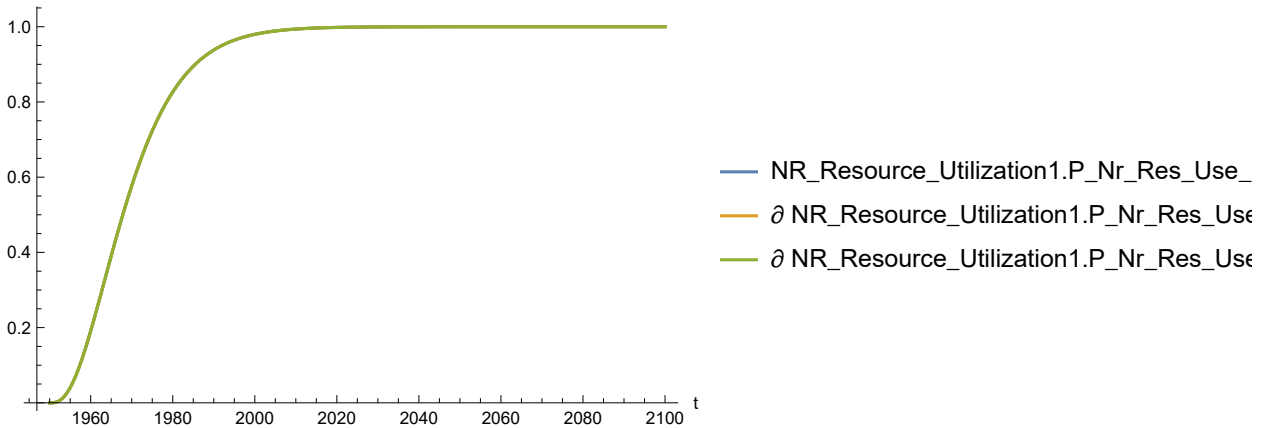
Out[214]=



In[215]:=

```
SystemModelPlot[simsensdata,
  {"NR_Resource_Utilization1.P_Nr_Res_Use_Fact_2.Smooth3.Integrator1.y",
   "Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[7]", percentvar}]
```

Out[215]=

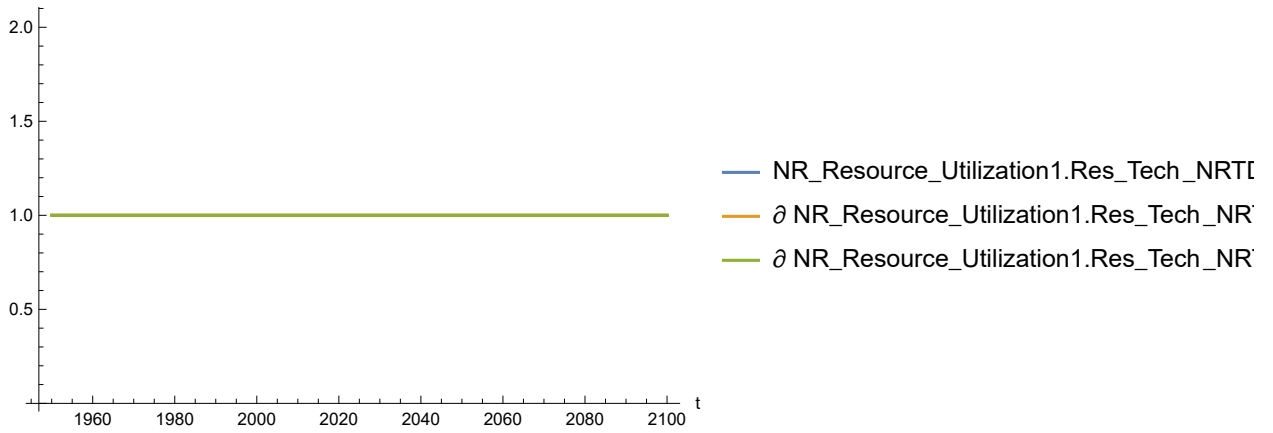


Plot the sensitivity of `NR_Resource_Utilization1.Res_Tech_NRTD.Integrator1.y` to `Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals`.

In[216]:=

```
SystemModelPlot[simsensdata, {"NR_Resource_Utilization1.Res_Tech_NRTD.Integrator1.y",
"Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[1]", percentvar}]
```

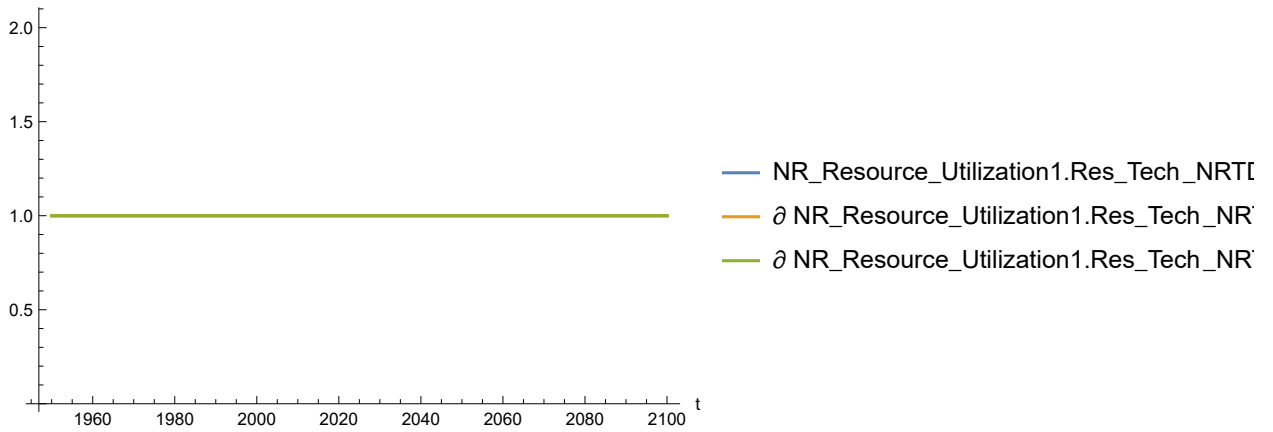
Out[216]=



In[217]:=

```
SystemModelPlot[simsensdata, {"NR_Resource_Utilization1.Res_Tech_NRTD.Integrator1.y",
"Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[2]", percentvar}]
```

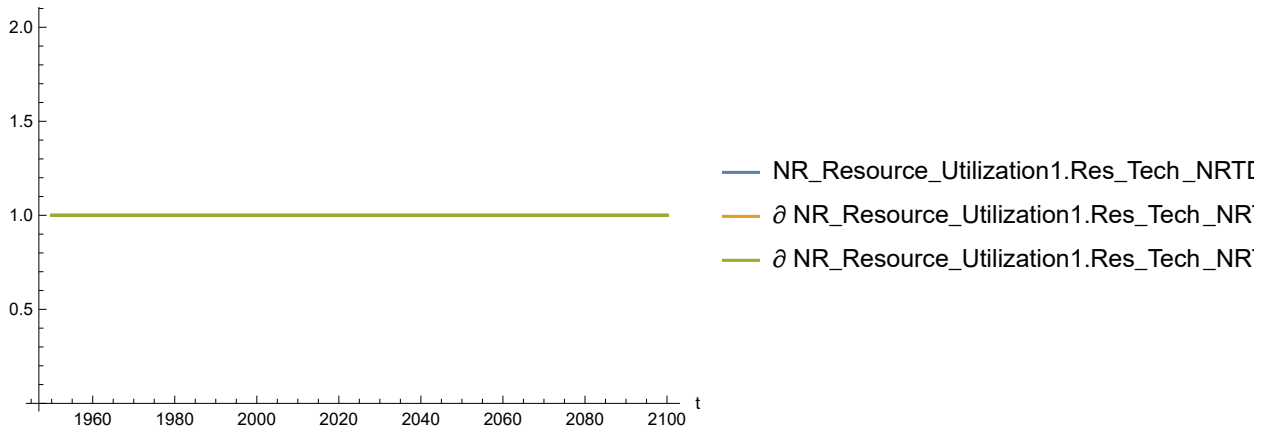
Out[217]=



In[218]:=

```
SystemModelPlot[simsensdata, {"NR_Resource_Utilization1.Res_Tech_NRTD.Integrator1.y",
"Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[3]", percentvar}]
```

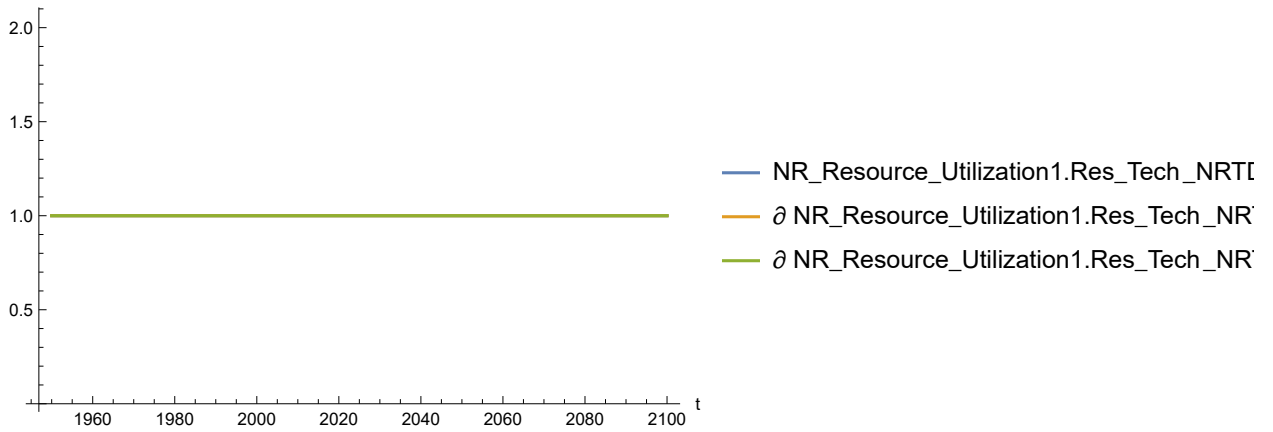
Out[218]=



In[219]:=

```
SystemModelPlot[simsensdata, {"NR_Resource_Utilization1.Res_Tech_NRTD.Integrator1.y",
"Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[4]", percentvar}]
```

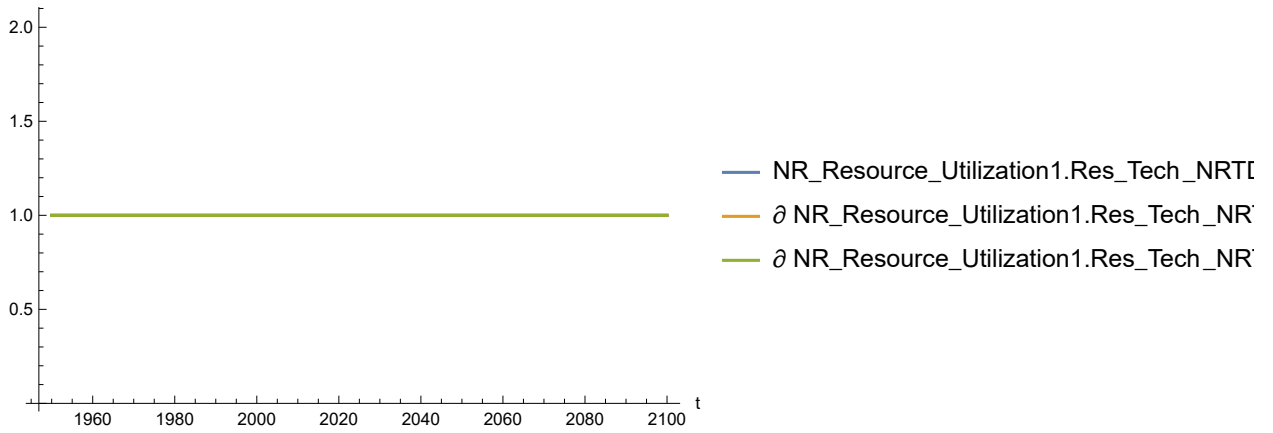
Out[219]=



In[220]:=

```
SystemModelPlot[simsensdata, {"NR_Resource_Utilization1.Res_Tech_NRTD.Integrator1.y",
"Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[5]", percentvar}]
```

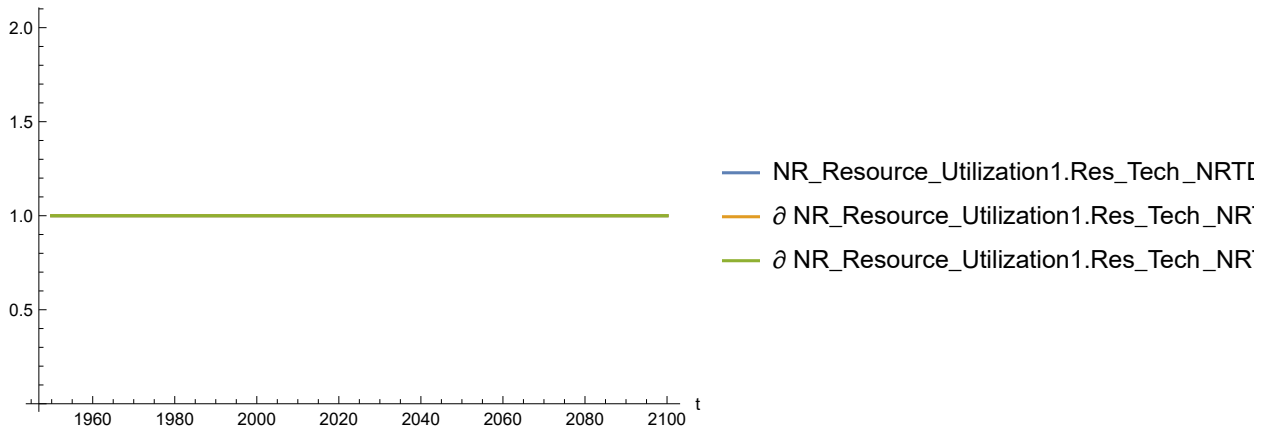
Out[220]=



In[221]:=

```
SystemModelPlot[simsensdata, {"NR_Resource_Utilization1.Res_Tech_NRTD.Integrator1.y",
"Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[6]", percentvar}]
```

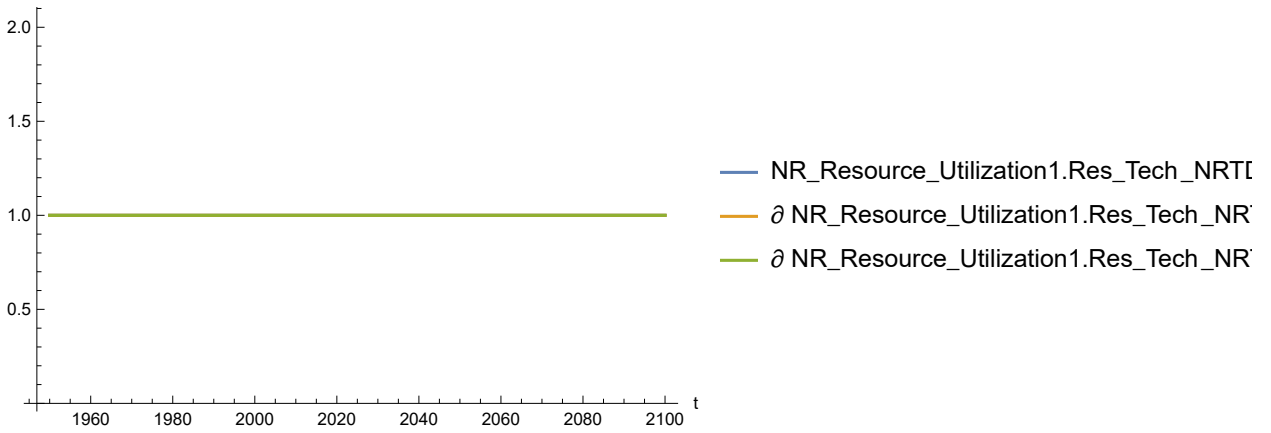
Out[221]=



In[222]:=

```
SystemModelPlot[simsensdata, {"NR_Resource_Utilization1.Res_Tech_NRTD.Integrator1.y",
"Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[7]", percentvar}]
```

Out[222]=

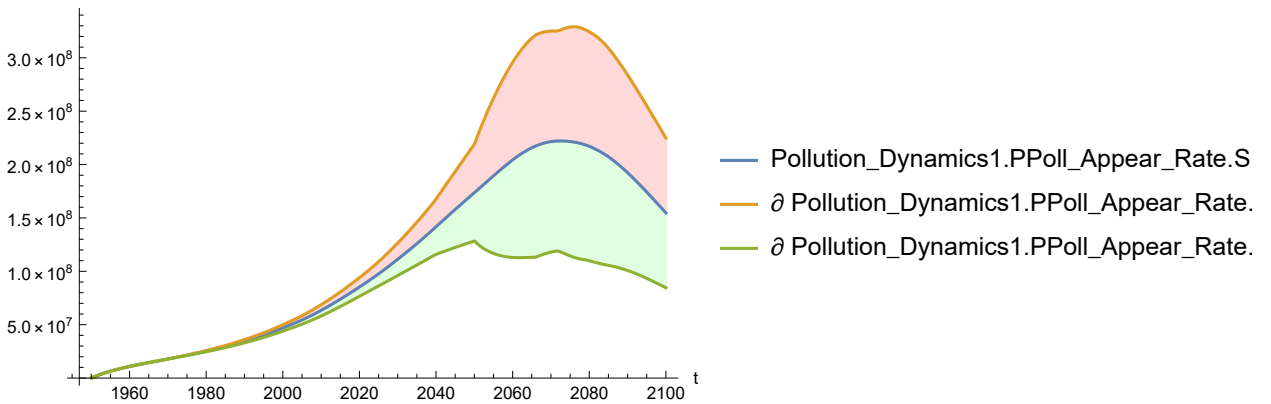


Plot the sensitivity of Pollution_Dynamics1.PPoll_Appear_Rate.Smooth1.Integrator1.y to Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals.

In[223]:=

```
SystemModelPlot[simsensdata,
{"Pollution_Dynamics1.PPoll_Appear_Rate.Smooth1.Integrator1.y",
"Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[1]", percentvar}]
```

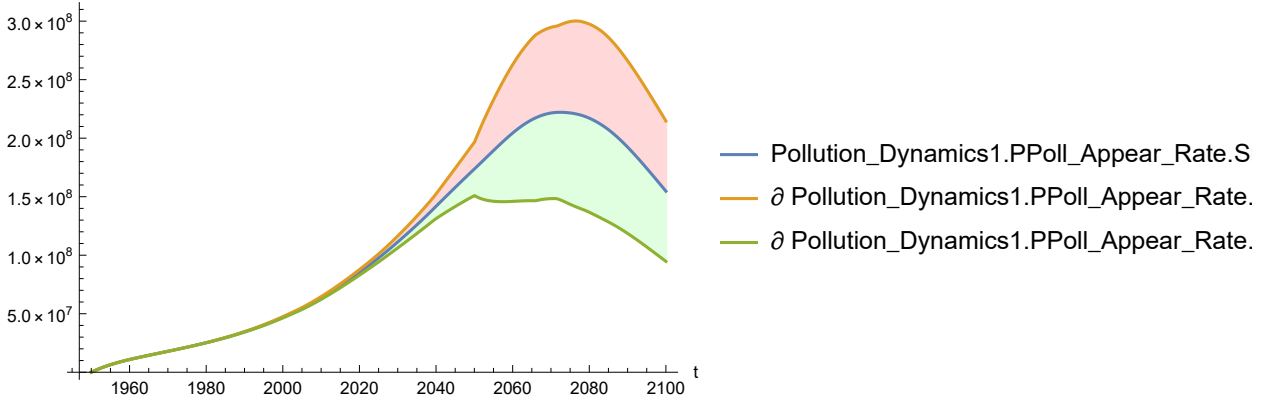
Out[223]=



In[224]:=

```
SystemModelPlot[simsensdata,
  {"Pollution_Dynamics1.PPoll_Appear_Rate.Smooth1.Integrator1.y",
   "Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[2]", percentvar}]
```

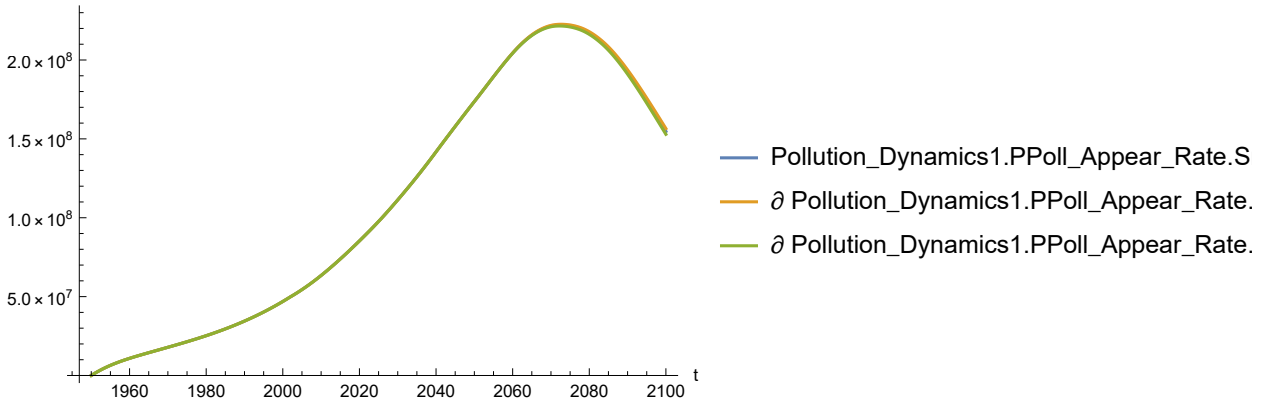
Out[224]=



In[225]:=

```
SystemModelPlot[simsensdata,
  {"Pollution_Dynamics1.PPoll_Appear_Rate.Smooth1.Integrator1.y",
   "Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[3]", percentvar}]
```

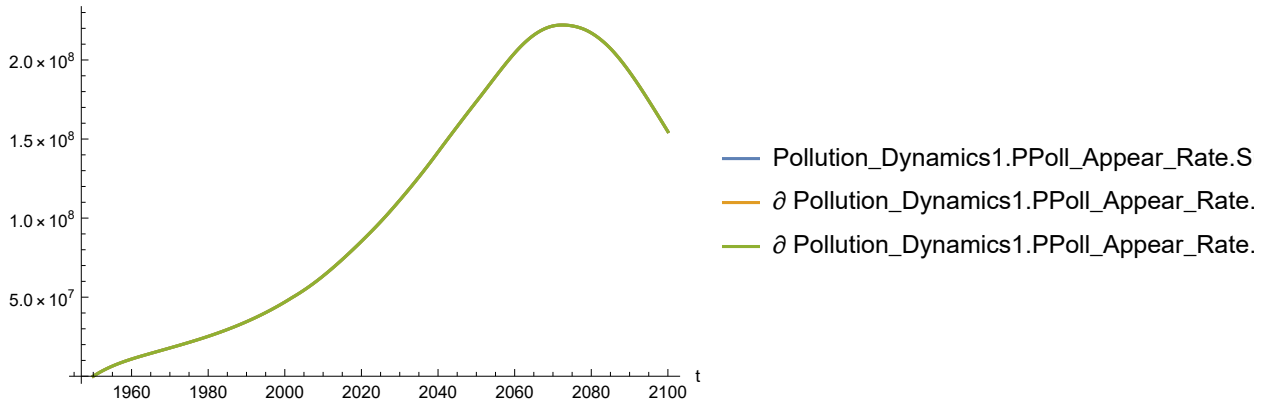
Out[225]=



In[226]:=

```
SystemModelPlot[simsensdata,
  {"Pollution_Dynamics1.PPoll_Appear_Rate.Smooth1.Integrator1.y",
   "Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[4]", percentvar}]
```

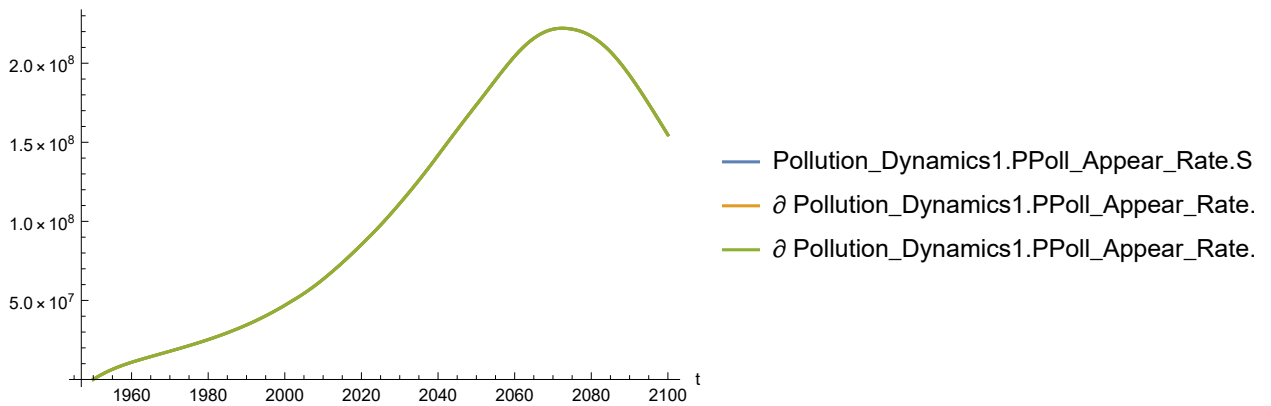
Out[226]=



In[227]:=

```
SystemModelPlot[simsensdata,
  {"Pollution_Dynamics1.PPoll_Appear_Rate.Smooth1.Integrator1.y",
   "Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[5]", percentvar}]
```

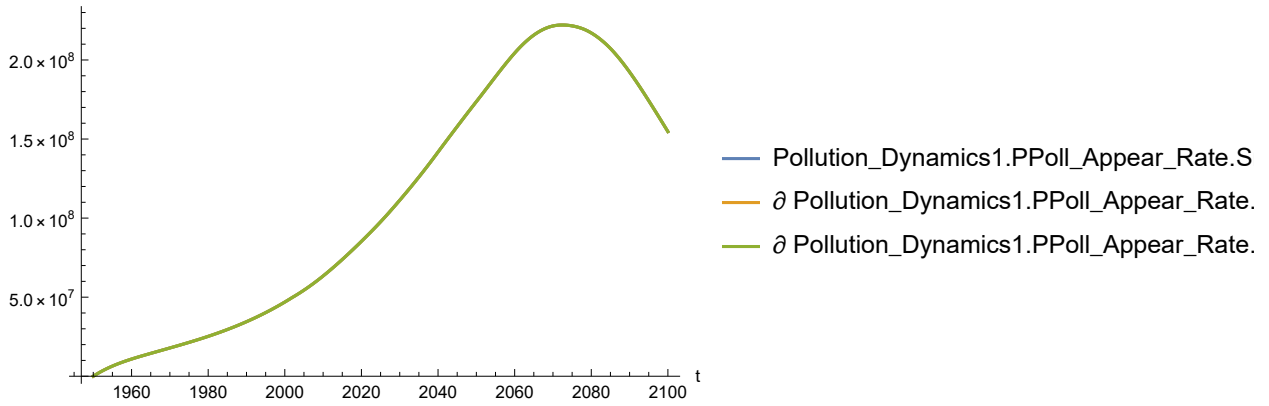
Out[227]=



In[228]:=

```
SystemModelPlot[simsensdata,
  {"Pollution_Dynamics1.PPoll_Appear_Rate.Smooth1.Integrator1.y",
   "Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[6]", percentvar}]
```

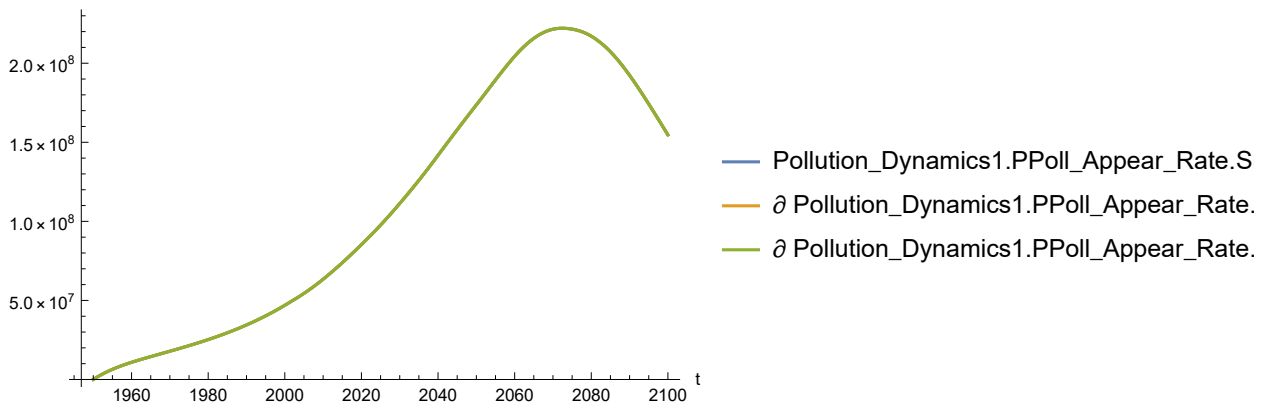
Out[228]=



In[229]:=

```
SystemModelPlot[simsensdata,
  {"Pollution_Dynamics1.PPoll_Appear_Rate.Smooth1.Integrator1.y",
   "Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[7]", percentvar}]
```

Out[229]=

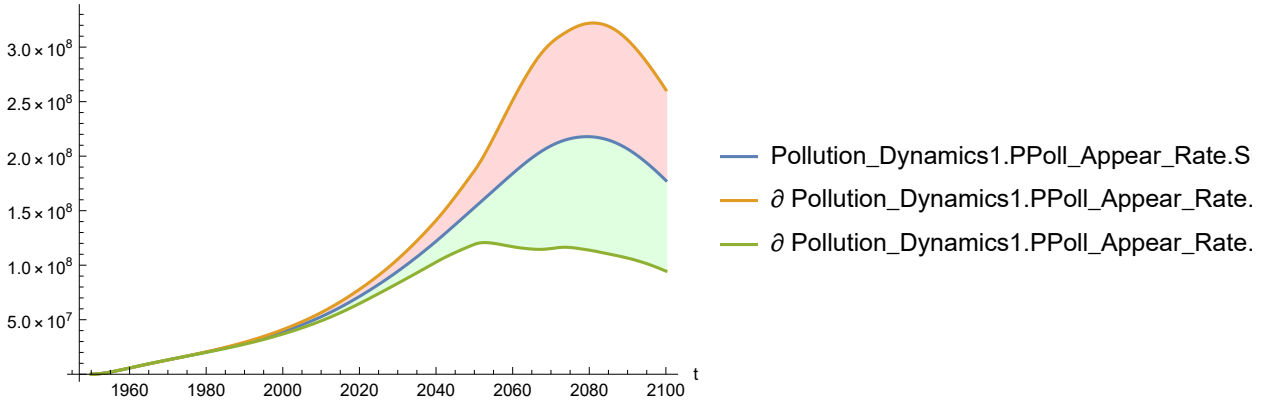


Plot the sensitivity of Pollution_Dynamics1.PPoll_Appear_Rate.Smooth2.Integrator1.y to Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals.

In[230]:=

```
SystemModelPlot[simsensdata,
  {"Pollution_Dynamics1.PPoll_Appear_Rate.Smooth2.Integrator1.y",
   "Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[1]", percentvar}]
```

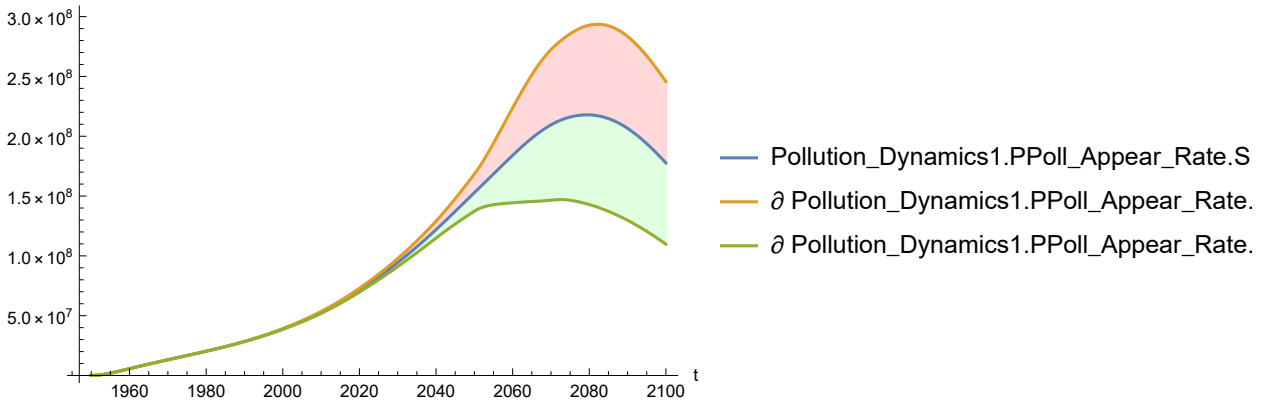
Out[230]=



In[231]:=

```
SystemModelPlot[simsensdata,
  {"Pollution_Dynamics1.PPoll_Appear_Rate.Smooth2.Integrator1.y",
   "Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[2]", percentvar}]
```

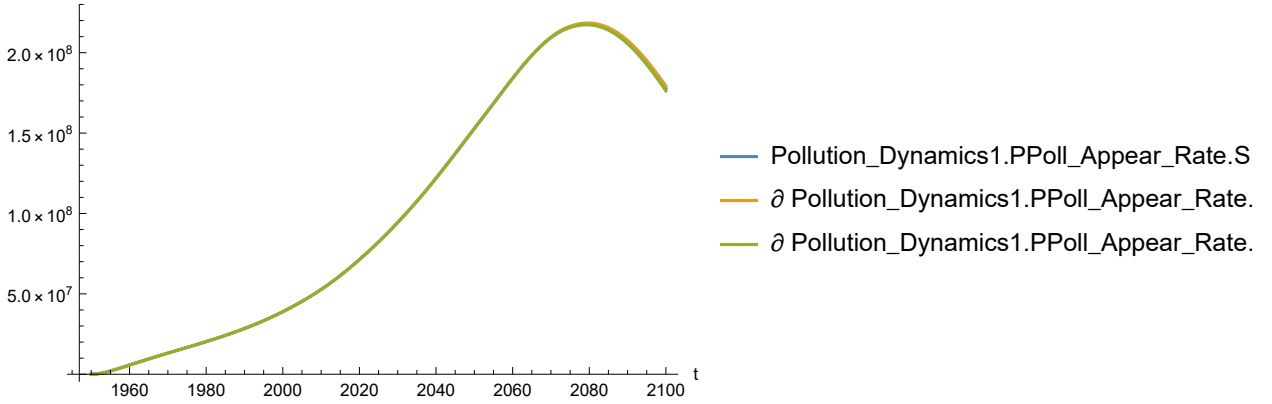
Out[231]=



In[232]:=

```
SystemModelPlot[simsensdata,
  {"Pollution_Dynamics1.PPoll_Appear_Rate.Smooth2.Integrator1.y",
   "Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[3]", percentvar}]
```

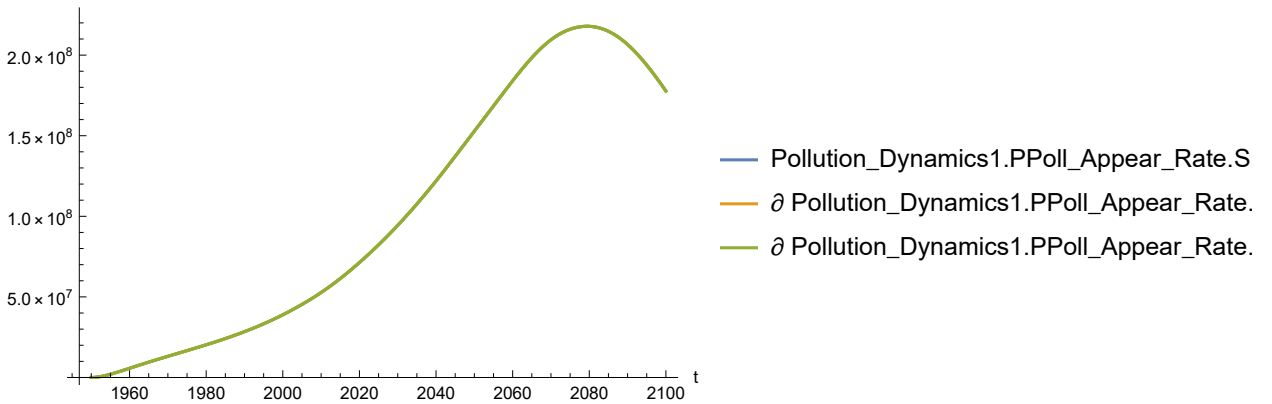
Out[232]=



In[233]:=

```
SystemModelPlot[simsensdata,
  {"Pollution_Dynamics1.PPoll_Appear_Rate.Smooth2.Integrator1.y",
   "Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[4]", percentvar}]
```

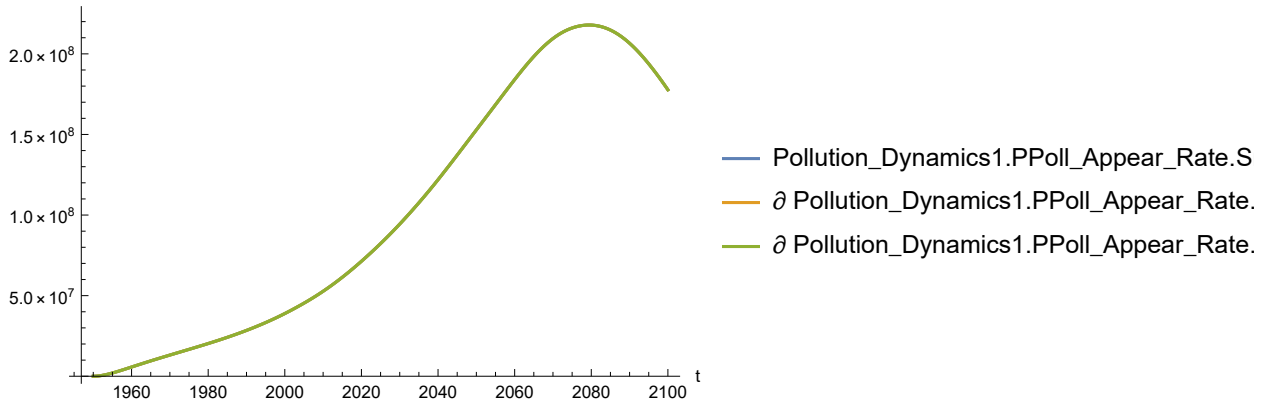
Out[233]=



In[234]:=

```
SystemModelPlot[simsensdata,
  {"Pollution_Dynamics1.PPoll_Appear_Rate.Smooth2.Integrator1.y",
   "Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[5]", percentvar}]
```

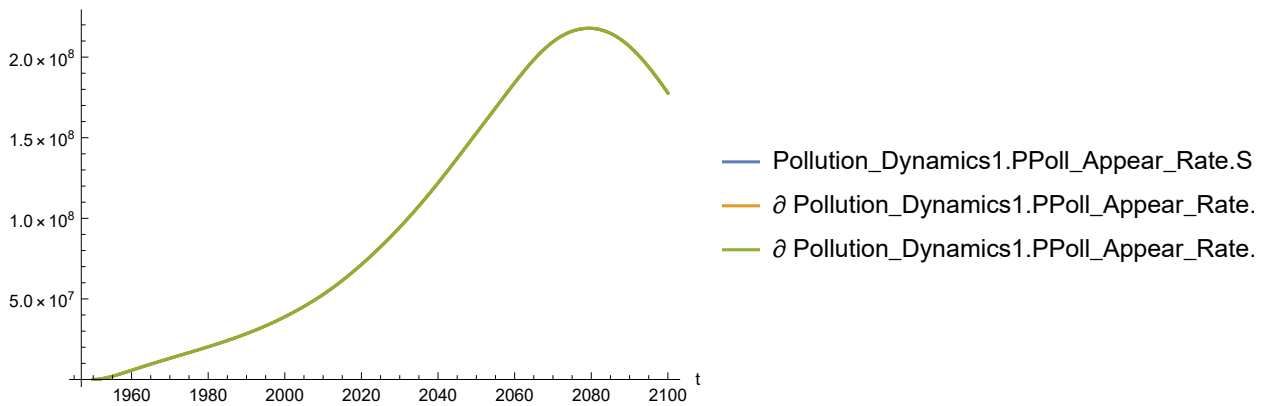
Out[234]=



In[235]:=

```
SystemModelPlot[simsensdata,
  {"Pollution_Dynamics1.PPoll_Appear_Rate.Smooth2.Integrator1.y",
   "Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[6]", percentvar}]
```

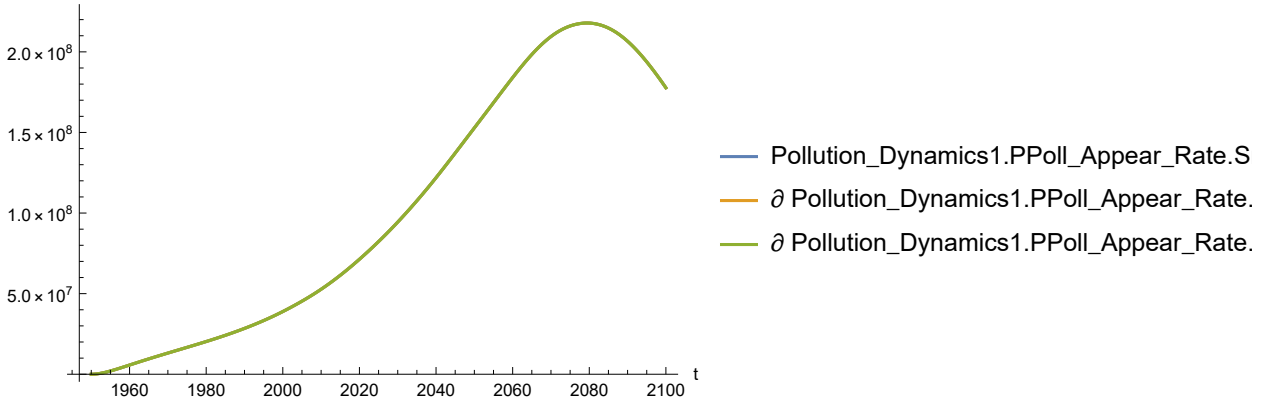
Out[235]=



In[236]:=

```
SystemModelPlot[simsensdata,
  {"Pollution_Dynamics1.PPoll_Appear_Rate.Smooth2.Integrator1.y",
   "Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[7]", percentvar}]
```

Out[236]:=

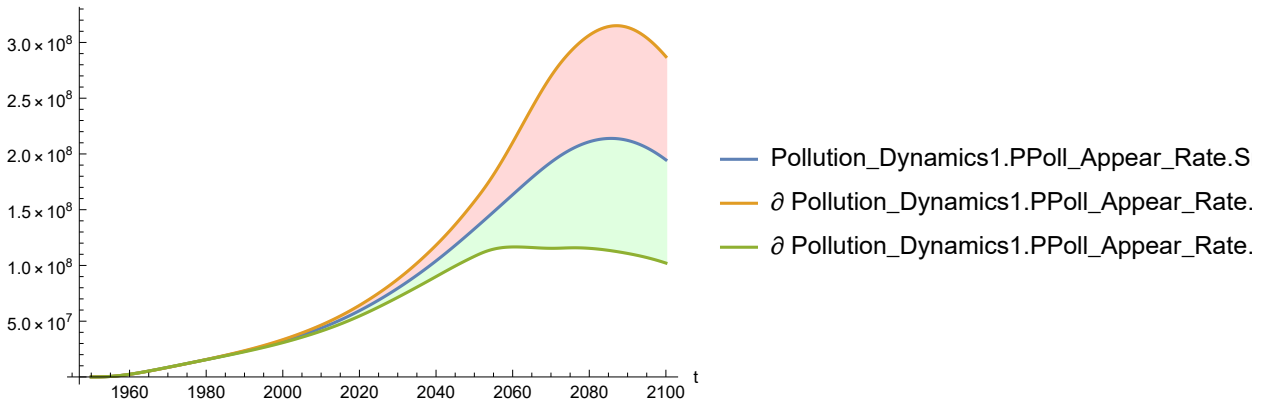


Plot the sensitivity of Pollution_Dynamics1.PPoll_Appear_Rate.Smooth3.Integrator1.y to Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals.

In[237]:=

```
SystemModelPlot[simsensdata,
  {"Pollution_Dynamics1.PPoll_Appear_Rate.Smooth3.Integrator1.y",
   "Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[1]", percentvar}]
```

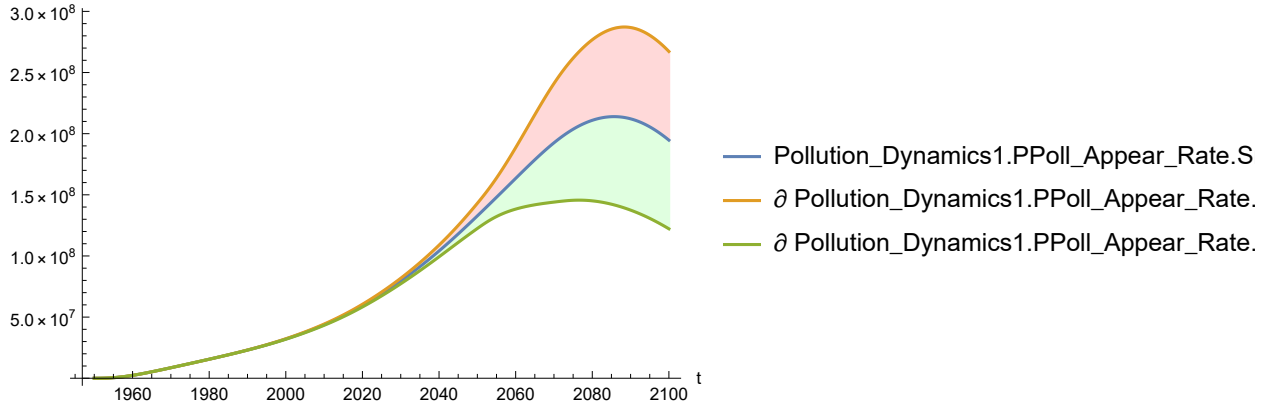
Out[237]:=



In[238]:=

```
SystemModelPlot[simsensdata,
  {"Pollution_Dynamics1.PPoll_Appear_Rate.Smooth3.Integrator1.y",
   "Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[2]", percentvar}]
```

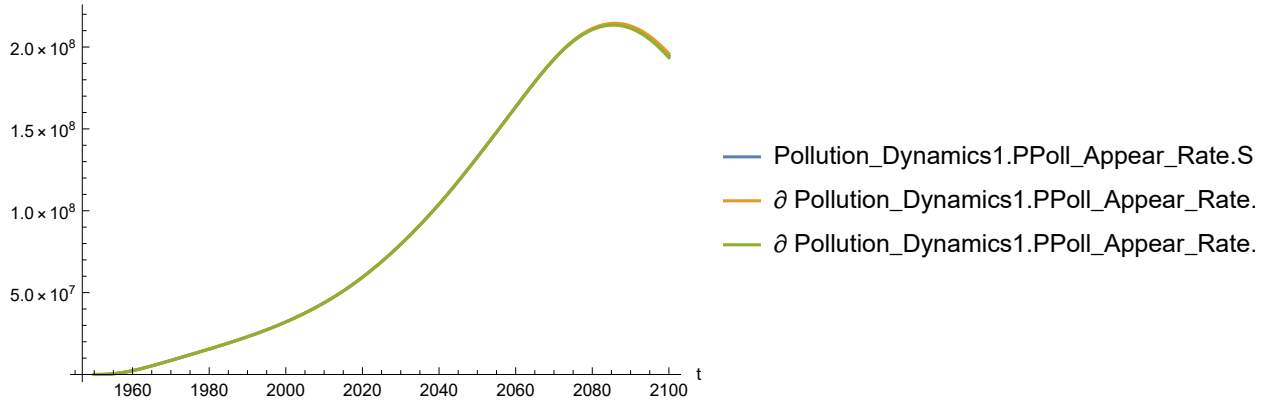
Out[238]=



In[239]:=

```
SystemModelPlot[simsensdata,
  {"Pollution_Dynamics1.PPoll_Appear_Rate.Smooth3.Integrator1.y",
   "Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[3]", percentvar}]
```

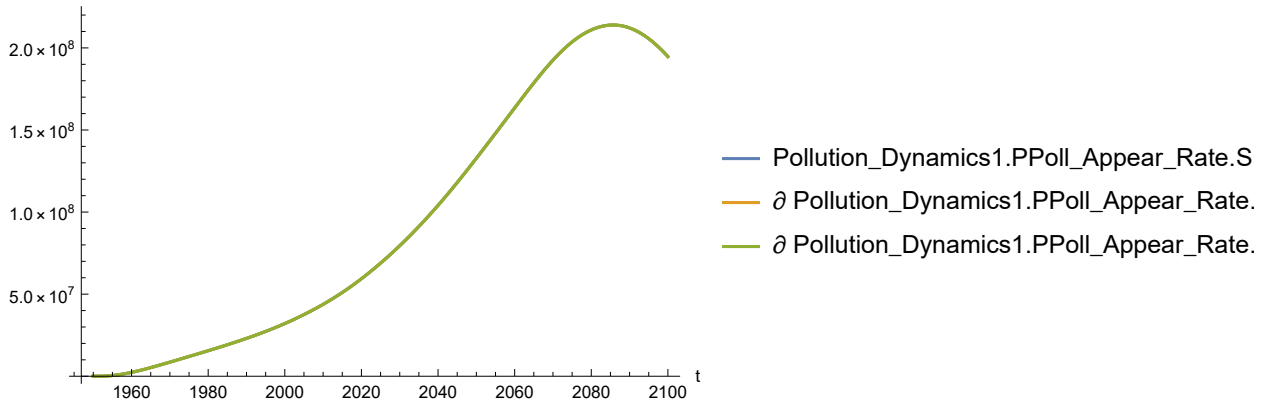
Out[239]=



In[240]:=

```
SystemModelPlot[simsensdata,
  {"Pollution_Dynamics1.PPoll_Appear_Rate.Smooth3.Integrator1.y",
   "Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[4]", percentvar}]
```

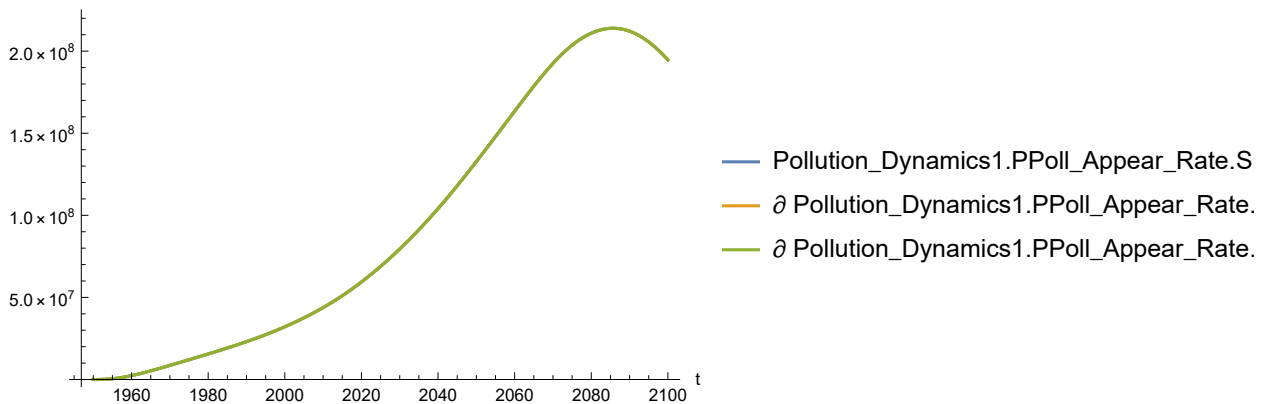
Out[240]=



In[241]:=

```
SystemModelPlot[simsensdata,
  {"Pollution_Dynamics1.PPoll_Appear_Rate.Smooth3.Integrator1.y",
   "Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[5]", percentvar}]
```

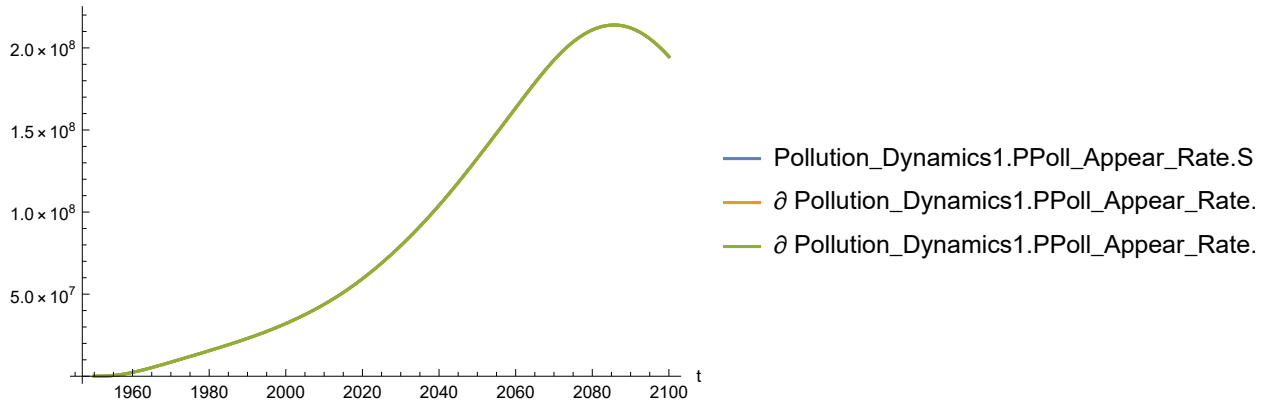
Out[241]=



In[242]:=

```
SystemModelPlot[simsensdata,
  {"Pollution_Dynamics1.PPoll_Appear_Rate.Smooth3.Integrator1.y",
   "Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[6]", percentvar}]
```

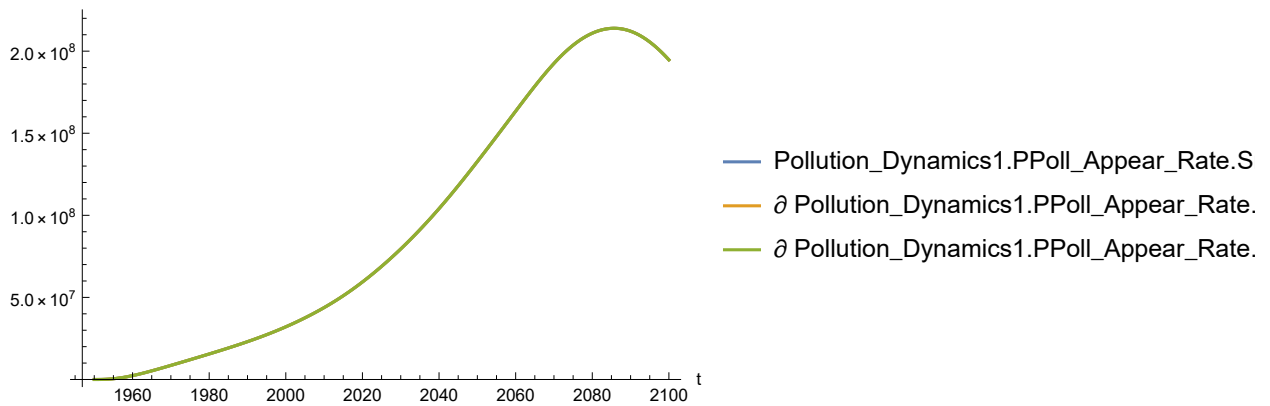
Out[242]=



In[243]:=

```
SystemModelPlot[simsensdata,
  {"Pollution_Dynamics1.PPoll_Appear_Rate.Smooth3.Integrator1.y",
   "Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[7]", percentvar}]
```

Out[243]=

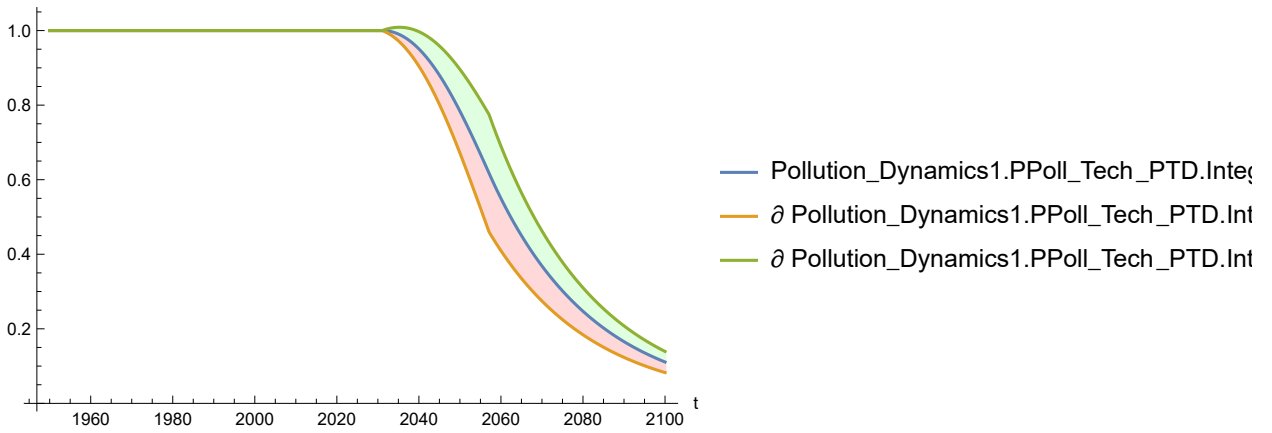


Plot the sensitivity of Pollution_Dynamics1.PPoll_Tech_PTD.Integrator1.y to Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals.

In[244]:=

```
SystemModelPlot[simsensdata, {"Pollution_Dynamics1.PPoll_Tech_PTD.Integrator1.y",
"Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[1]", percentvar}]
```

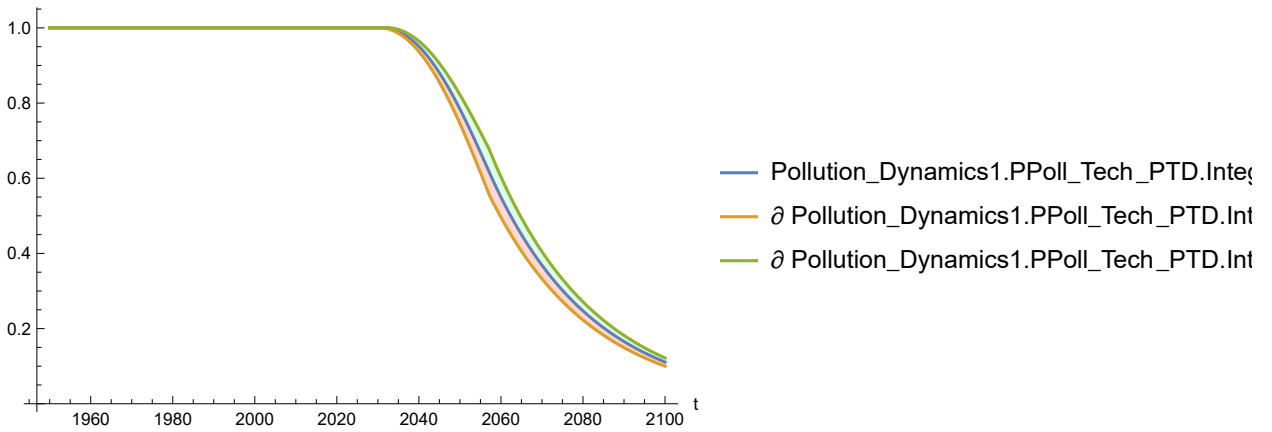
Out[244]:=



In[245]:=

```
SystemModelPlot[simsensdata, {"Pollution_Dynamics1.PPoll_Tech_PTD.Integrator1.y",
"Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[2]", percentvar}]
```

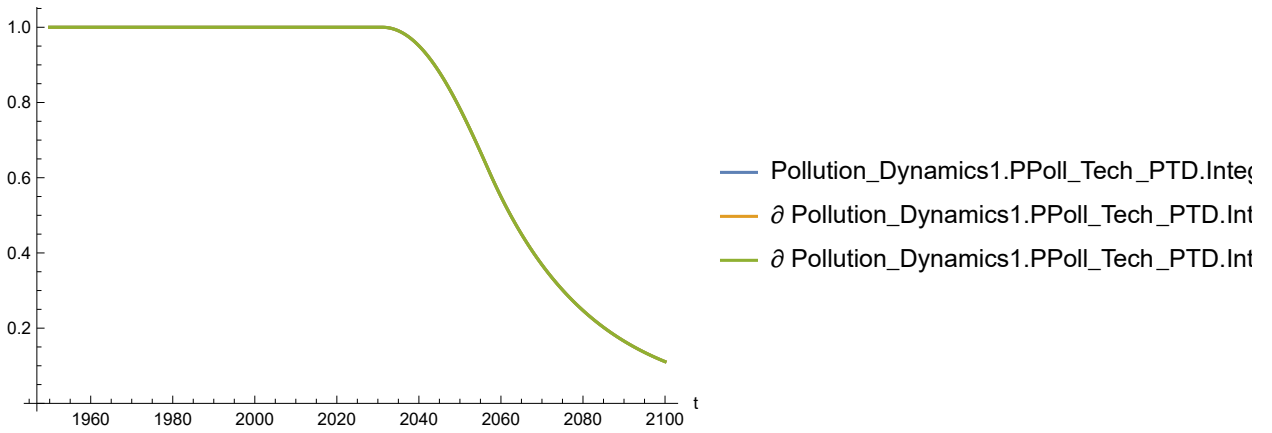
Out[245]:=



In[246]:=

```
SystemModelPlot[simsensdata, {"Pollution_Dynamics1.PPoll_Tech_PTD.Integrator1.y",
"Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[3]", percentvar}]
```

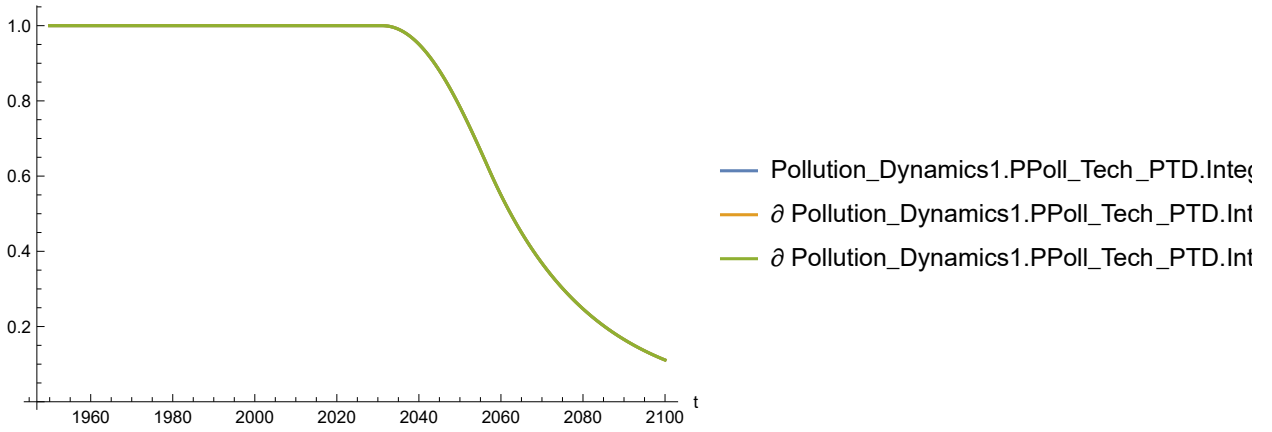
Out[246]=



In[247]:=

```
SystemModelPlot[simsensdata, {"Pollution_Dynamics1.PPoll_Tech_PTD.Integrator1.y",
"Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[4]", percentvar}]
```

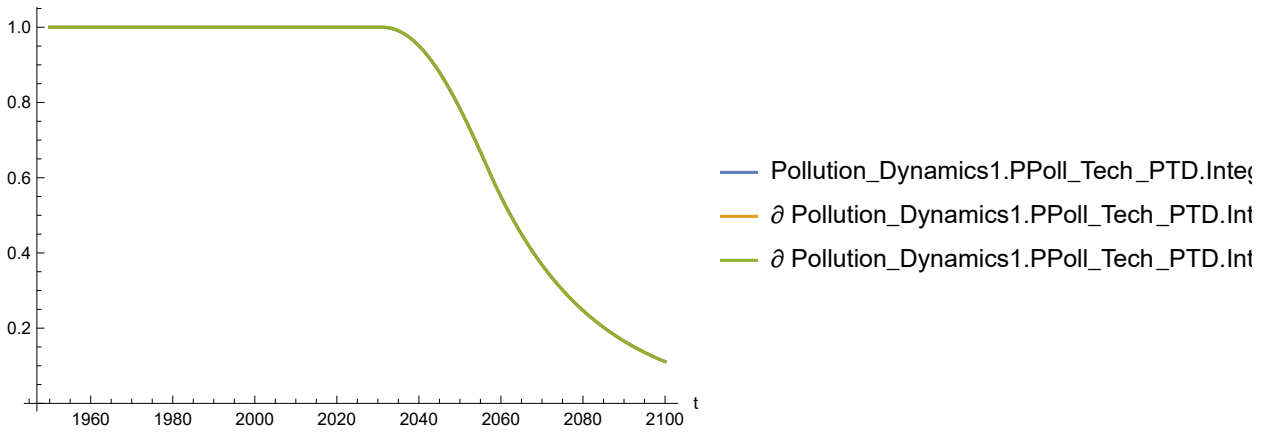
Out[247]=



In[248]:=

```
SystemModelPlot[simsensdata, {"Pollution_Dynamics1.PPoll_Tech_PTD.Integrator1.y",
"Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[5]", percentvar}]}
```

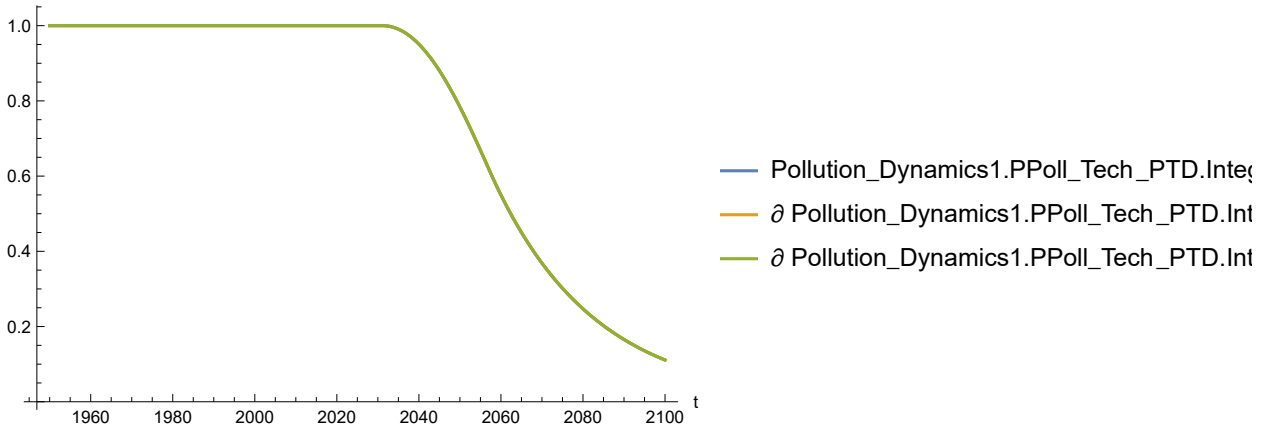
Out[248]:=



In[249]:=

```
SystemModelPlot[simsensdata, {"Pollution_Dynamics1.PPoll_Tech_PTD.Integrator1.y",
"Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[6]", percentvar}]}
```

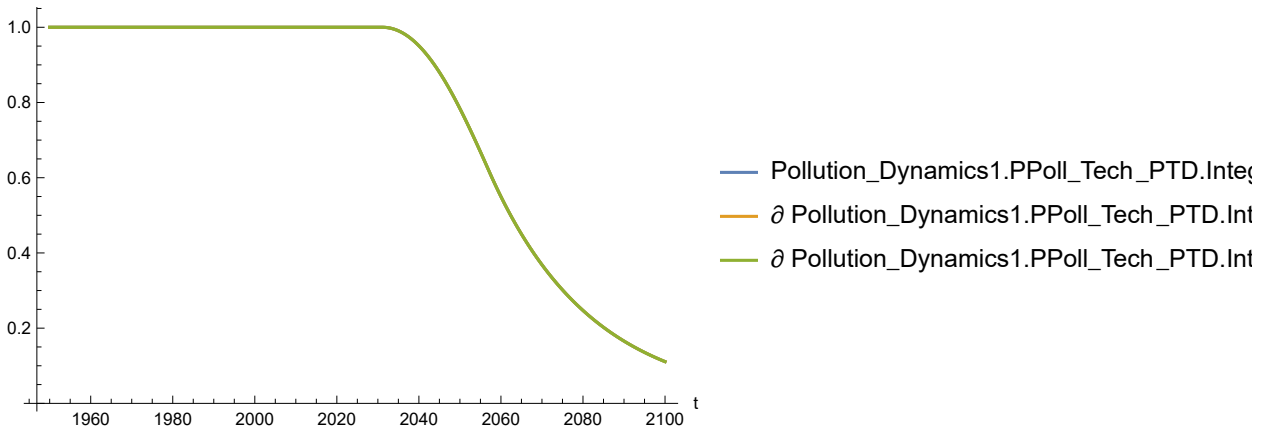
Out[249]:=



In[250]:=

```
SystemModelPlot[simsensdata, {"Pollution_Dynamics1.PPoll_Tech_PTD.Integrator1.y",
"Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[7]", percentvar}]]
```

Out[250]=

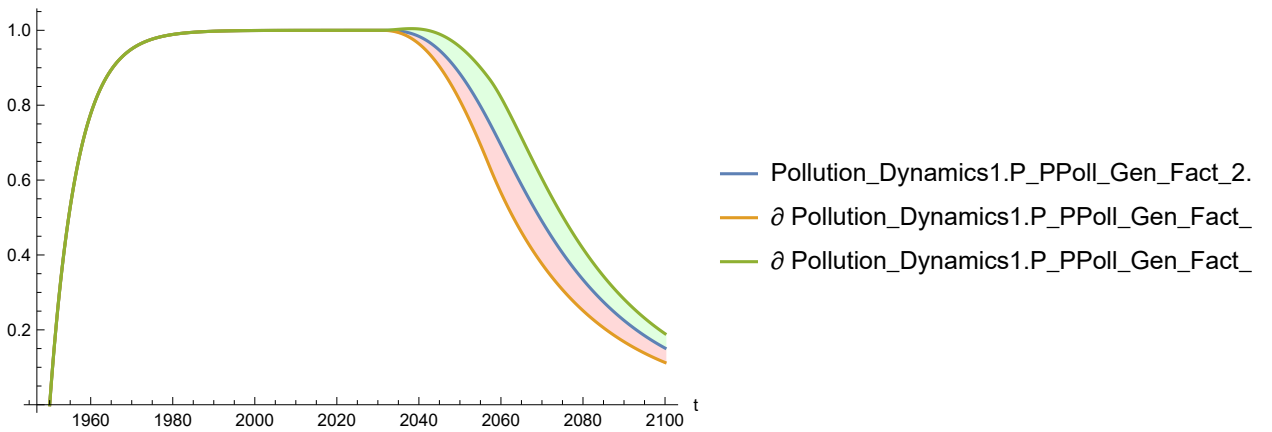


Plot the sensitivity of Pollution_Dynamics1.P_PPoll_Gen_Fact_2.Smooth1.Integrator1.y to Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals.

In[251]:=

```
SystemModelPlot[simsensdata,
{"Pollution_Dynamics1.P_PPoll_Gen_Fact_2.Smooth1.Integrator1.y",
"Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[1]", percentvar}]]
```

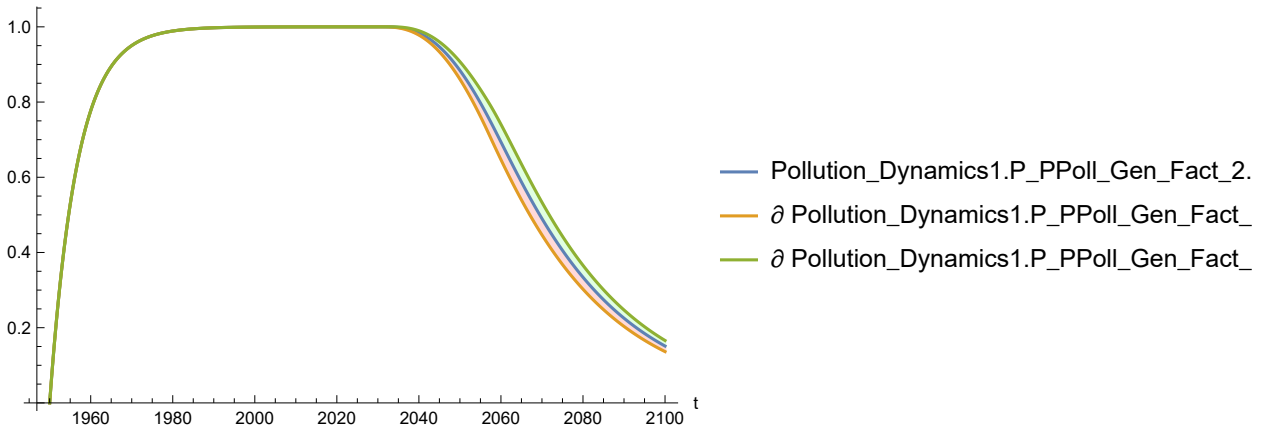
Out[251]=



In[252]:=

```
SystemModelPlot[simsensdata,
  {"Pollution_Dynamics1.P_PPoll_Gen_Fact_2.Smooth1.Integrator1.y",
   "Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[2]", percentvar}]
```

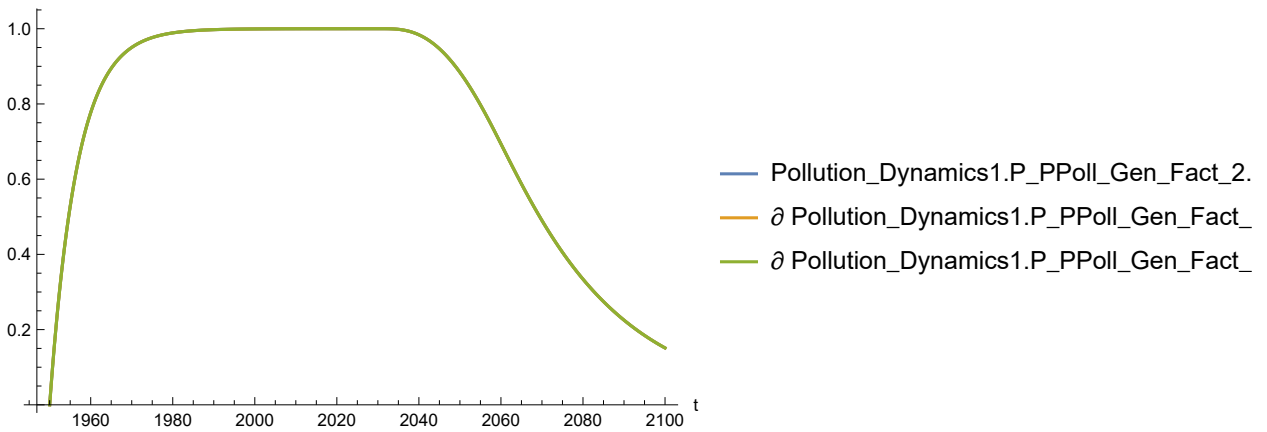
Out[252]=



In[253]:=

```
SystemModelPlot[simsensdata,
  {"Pollution_Dynamics1.P_PPoll_Gen_Fact_2.Smooth1.Integrator1.y",
   "Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[3]", percentvar}]
```

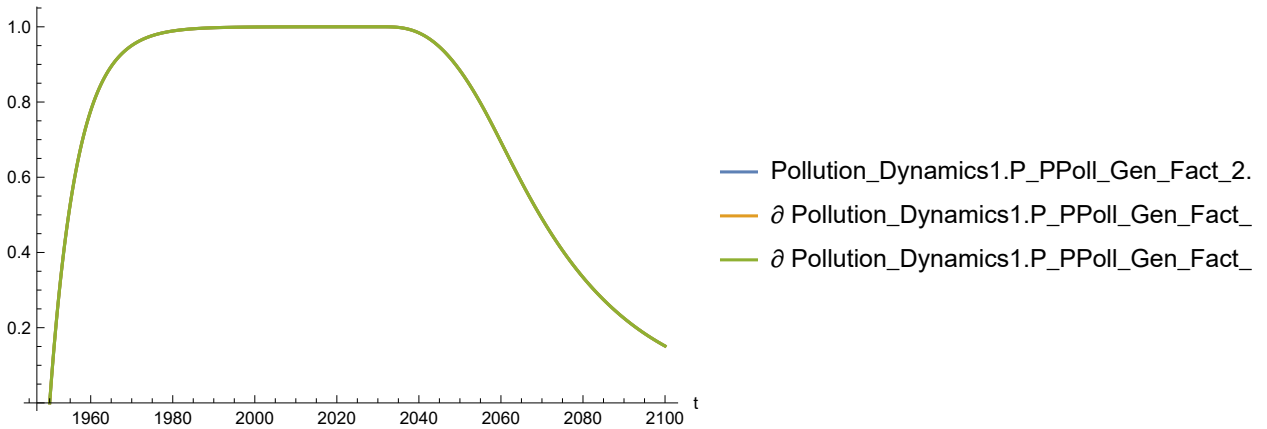
Out[253]=



In[254]:=

```
SystemModelPlot[simsensdata,
  {"Pollution_Dynamics1.P_PPoll_Gen_Fact_2.Smooth1.Integrator1.y",
   "Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[4]", percentvar}]
```

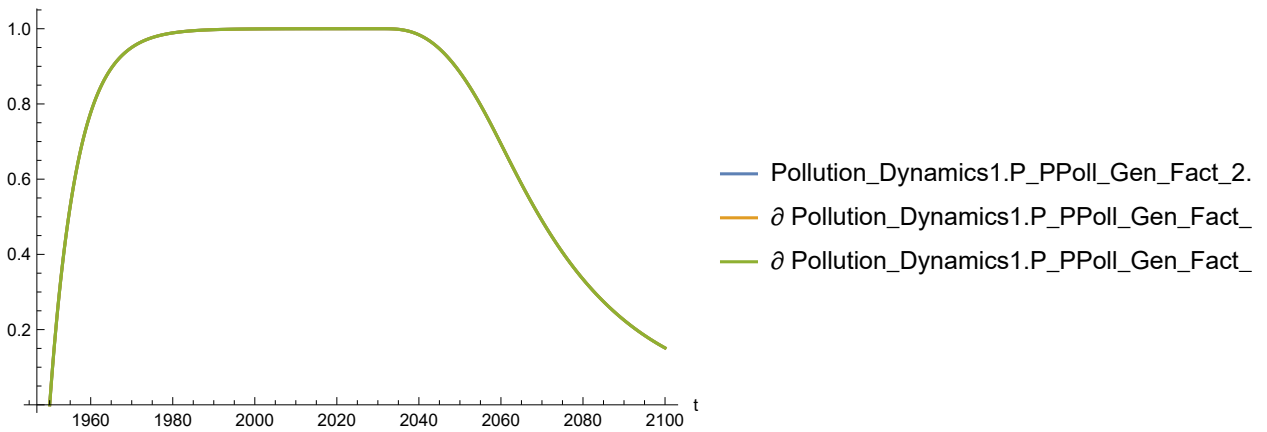
Out[254]=



In[255]:=

```
SystemModelPlot[simsensdata,
  {"Pollution_Dynamics1.P_PPoll_Gen_Fact_2.Smooth1.Integrator1.y",
   "Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[5]", percentvar}]
```

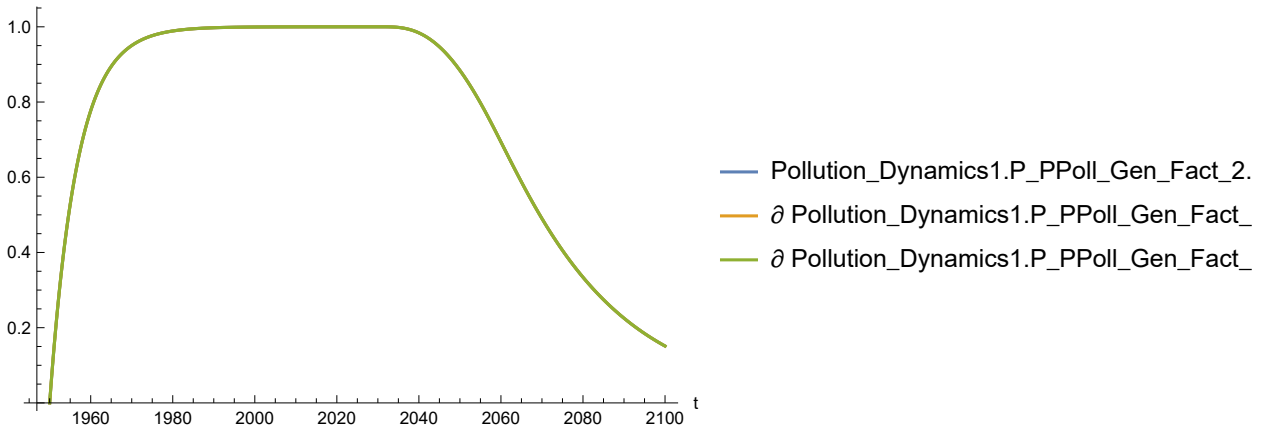
Out[255]=



In[256]:=

```
SystemModelPlot[simsensdata,
  {"Pollution_Dynamics1.P_PPoll_Gen_Fact_2.Smooth1.Integrator1.y",
   "Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[6]", percentvar}]
```

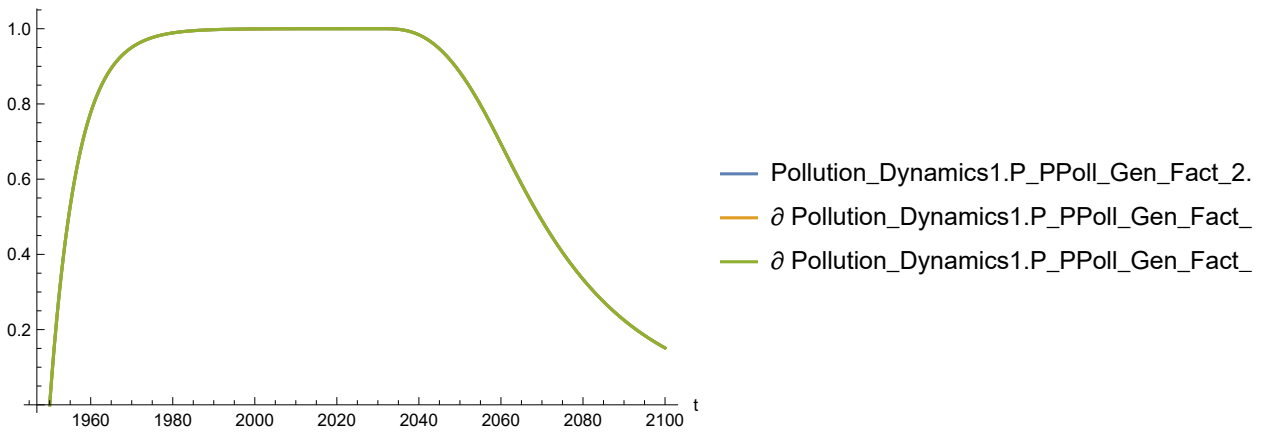
Out[256]=



In[257]:=

```
SystemModelPlot[simsensdata,
  {"Pollution_Dynamics1.P_PPoll_Gen_Fact_2.Smooth1.Integrator1.y",
   "Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[7]", percentvar}]
```

Out[257]=

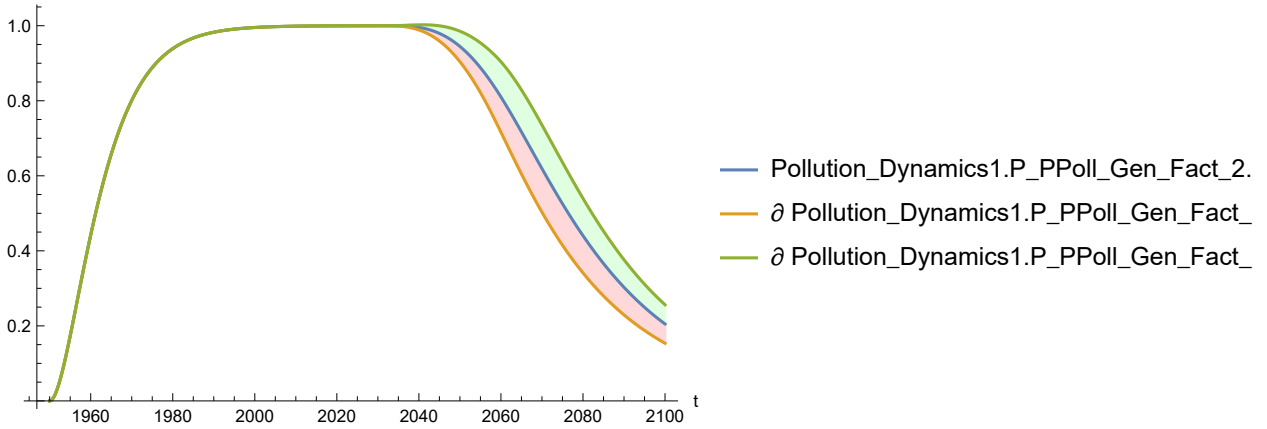


Plot the sensitivity of Pollution_Dynamics1.P_PPoll_Gen_Fact_2.Smooth2.Integrator1.y to Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals.

In[258]:=

```
SystemModelPlot[simsensdata,
  {"Pollution_Dynamics1.P_PPoll_Gen_Fact_2.Smooth2.Integrator1.y",
   "Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[1]", percentvar}]
```

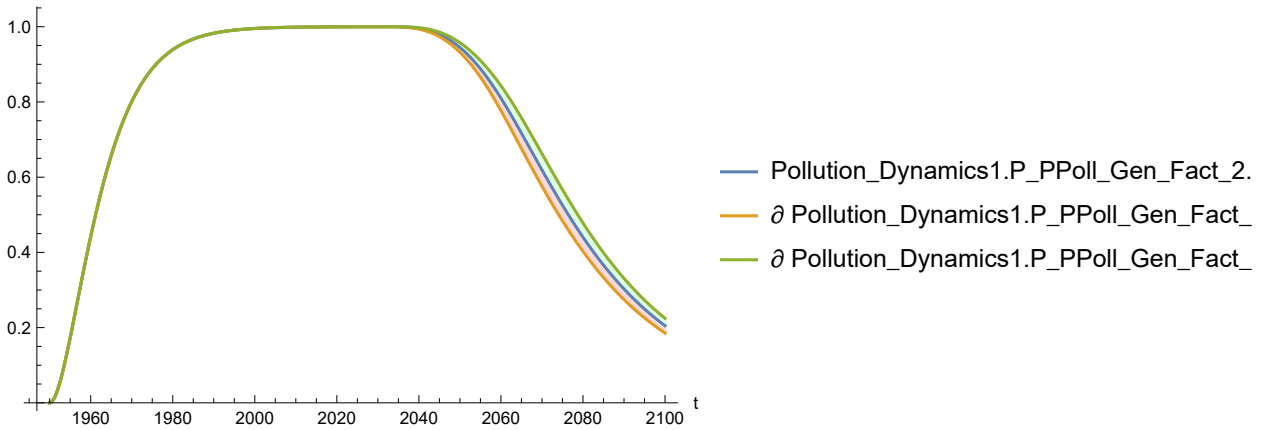
Out[258]=



In[259]:=

```
SystemModelPlot[simsensdata,
  {"Pollution_Dynamics1.P_PPoll_Gen_Fact_2.Smooth2.Integrator1.y",
   "Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[2]", percentvar}]
```

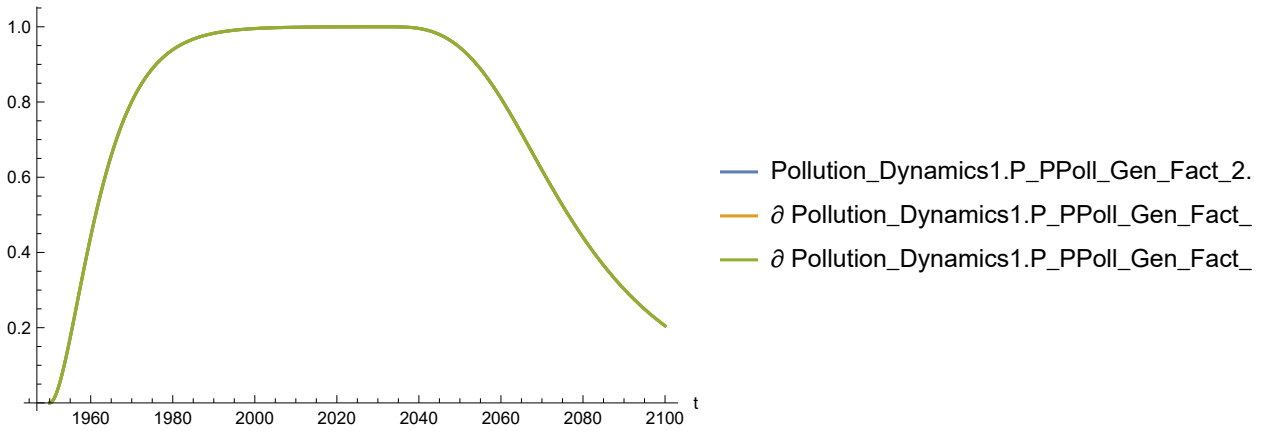
Out[259]=



In[260]:=

```
SystemModelPlot[simsensdata,
  {"Pollution_Dynamics1.P_PPoll_Gen_Fact_2.Smooth2.Integrator1.y",
   "Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[3]", percentvar}]
```

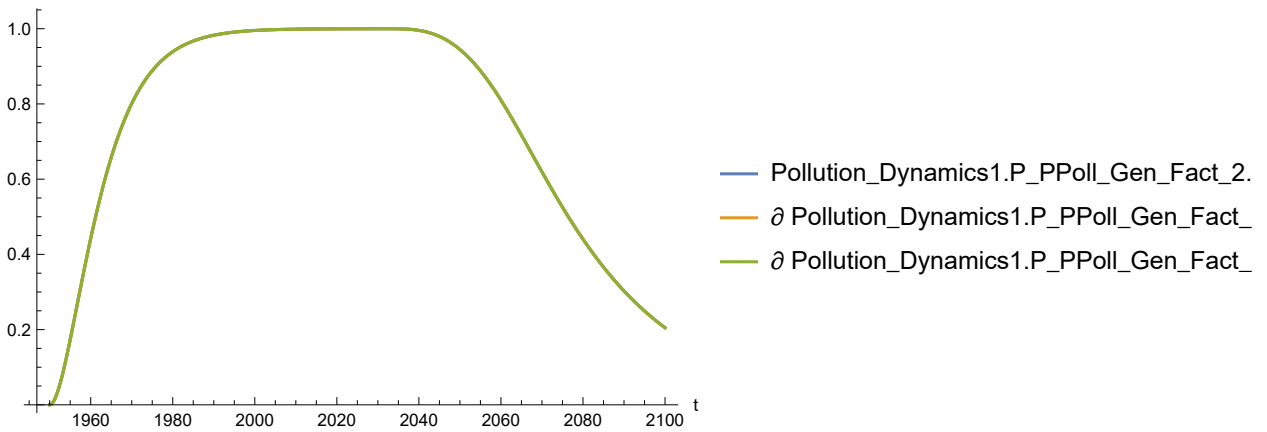
Out[260]=



In[261]:=

```
SystemModelPlot[simsensdata,
  {"Pollution_Dynamics1.P_PPoll_Gen_Fact_2.Smooth2.Integrator1.y",
   "Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[4]", percentvar}]
```

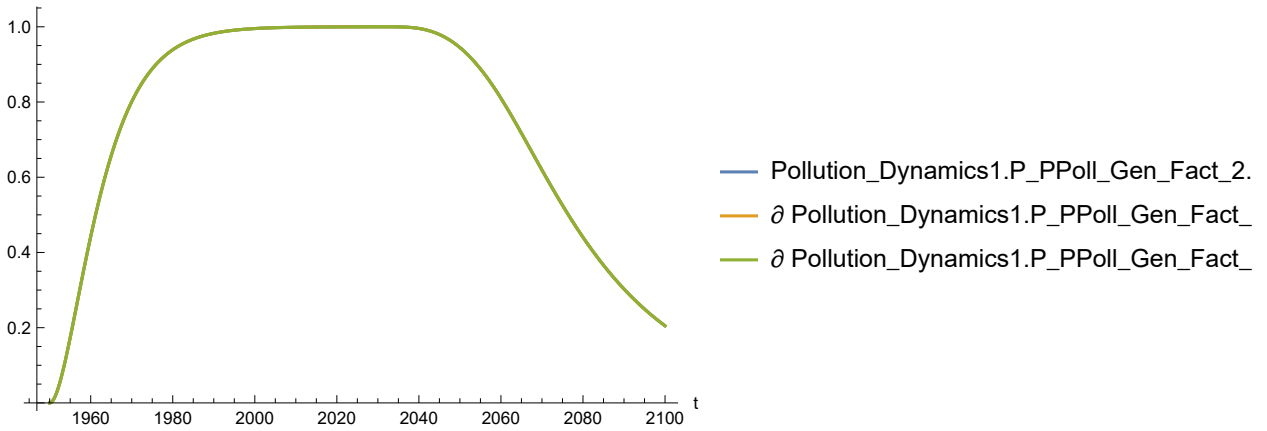
Out[261]=



In[262]:=

```
SystemModelPlot[simsensdata,
  {"Pollution_Dynamics1.P_PPoll_Gen_Fact_2.Smooth2.Integrator1.y",
   "Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[5]", percentvar}]
```

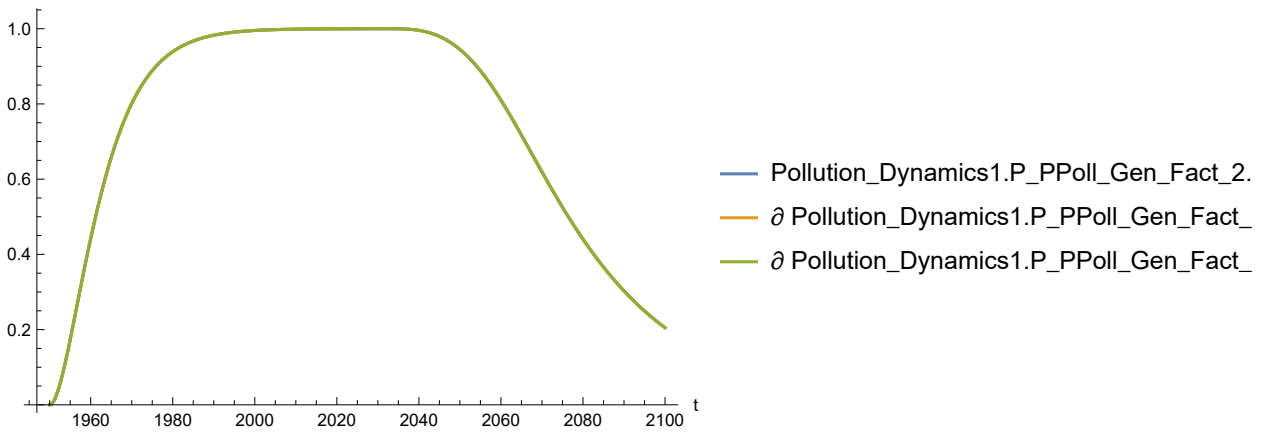
Out[262]=



In[263]:=

```
SystemModelPlot[simsensdata,
  {"Pollution_Dynamics1.P_PPoll_Gen_Fact_2.Smooth2.Integrator1.y",
   "Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[6]", percentvar}]
```

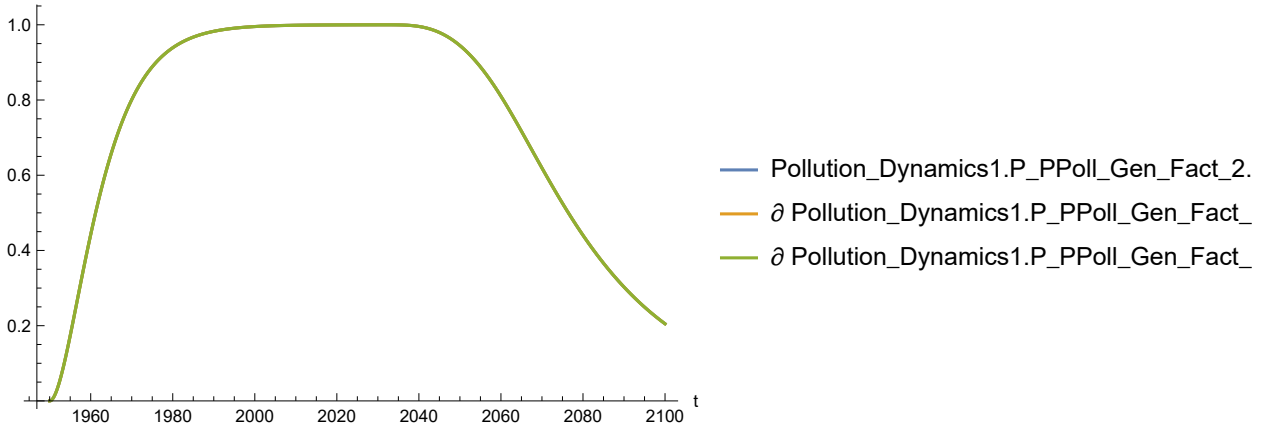
Out[263]=



In[264]:=

```
SystemModelPlot[simsensdata,
  {"Pollution_Dynamics1.P_PPoll_Gen_Fact_2.Smooth2.Integrator1.y",
   "Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[7]", percentvar}]
```

Out[264]=

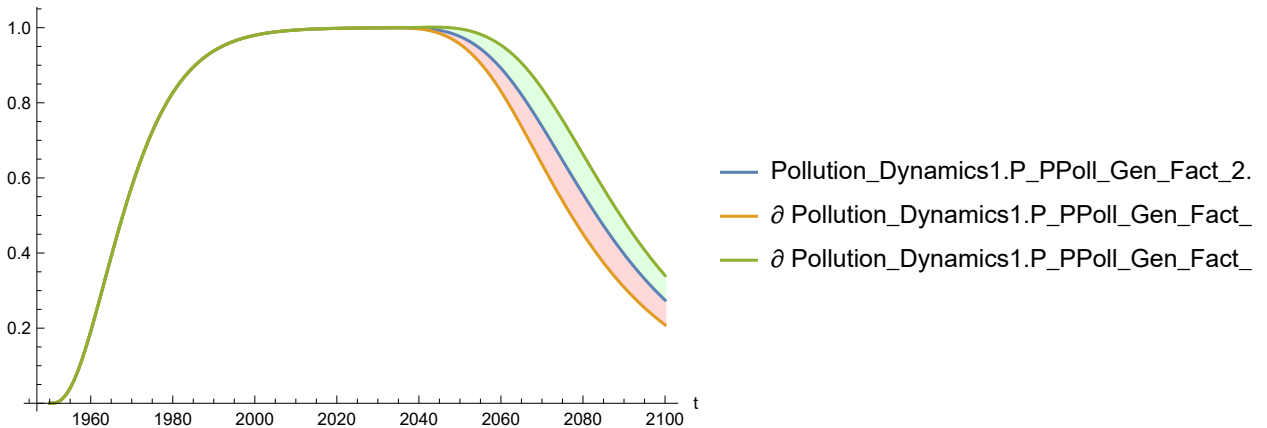


Plot the sensitivity of Pollution_Dynamics1.P_PPoll_Gen_Fact_2.Smooth3.Integrator1.y to Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals.

In[265]:=

```
SystemModelPlot[simsensdata,
  {"Pollution_Dynamics1.P_PPoll_Gen_Fact_2.Smooth3.Integrator1.y",
   "Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[1]", percentvar}]
```

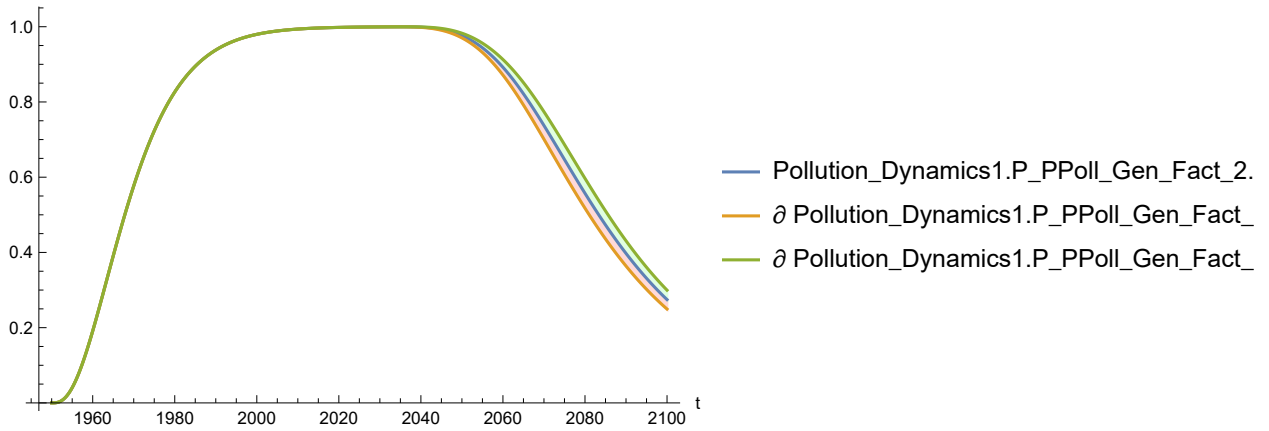
Out[265]=



In[266]:=

```
SystemModelPlot[simsensdata,
  {"Pollution_Dynamics1.P_PPoll_Gen_Fact_2.Smooth3.Integrator1.y",
   "Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[2]", percentvar}]
```

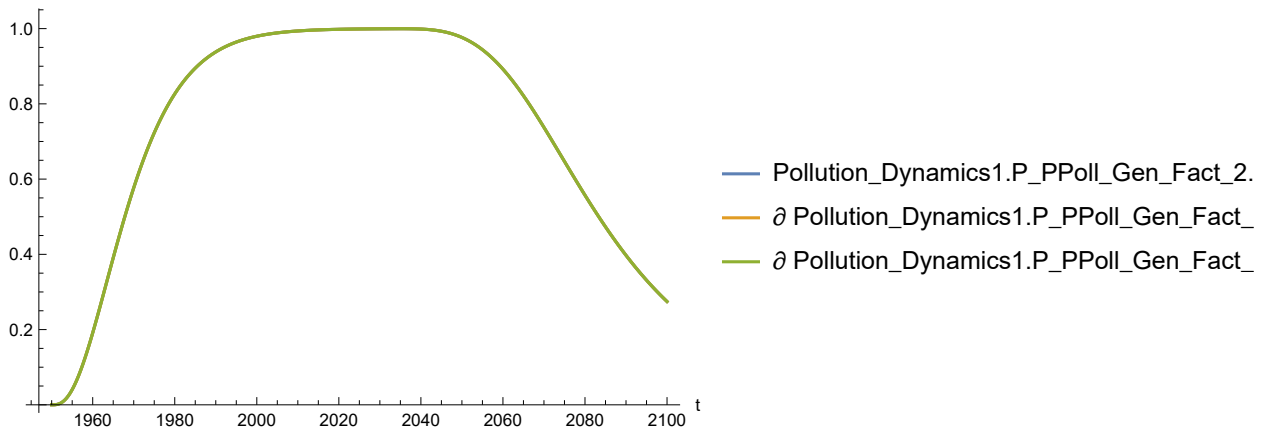
Out[266]=



In[267]:=

```
SystemModelPlot[simsensdata,
  {"Pollution_Dynamics1.P_PPoll_Gen_Fact_2.Smooth3.Integrator1.y",
   "Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[3]", percentvar}]
```

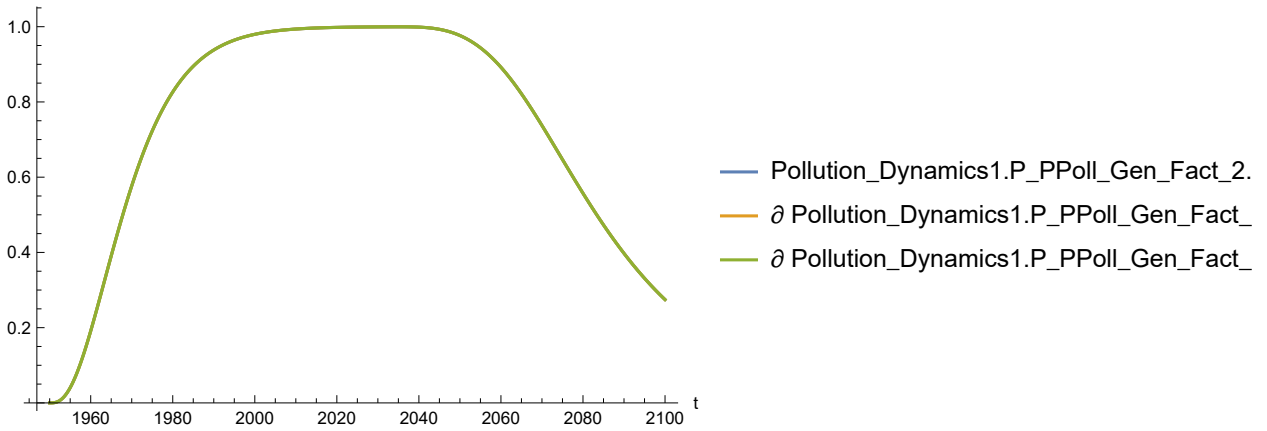
Out[267]=



In[268]:=

```
SystemModelPlot[simsensdata,
  {"Pollution_Dynamics1.P_PPoll_Gen_Fact_2.Smooth3.Integrator1.y",
   "Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[4]", percentvar}]
```

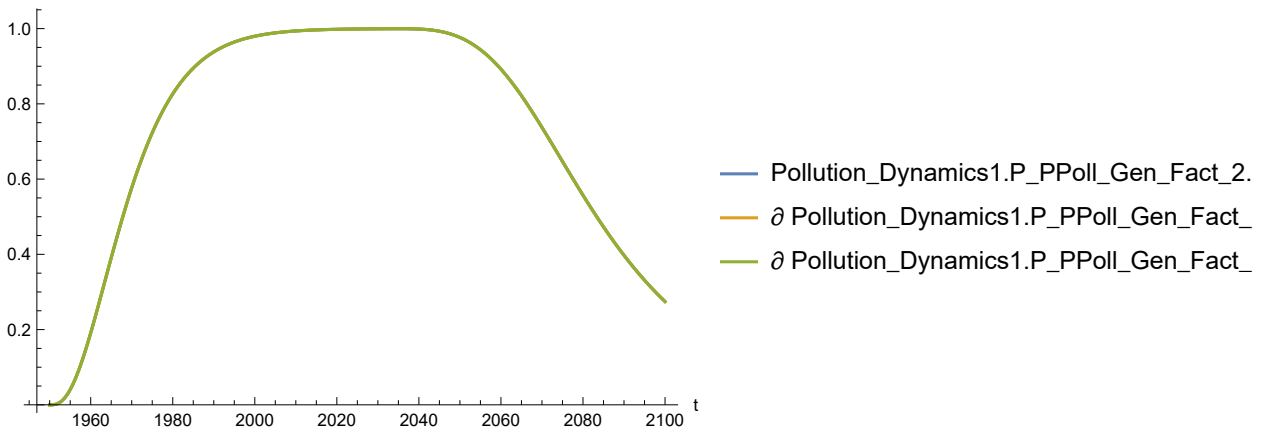
Out[268]=



In[269]:=

```
SystemModelPlot[simsensdata,
  {"Pollution_Dynamics1.P_PPoll_Gen_Fact_2.Smooth3.Integrator1.y",
   "Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[5]", percentvar}]
```

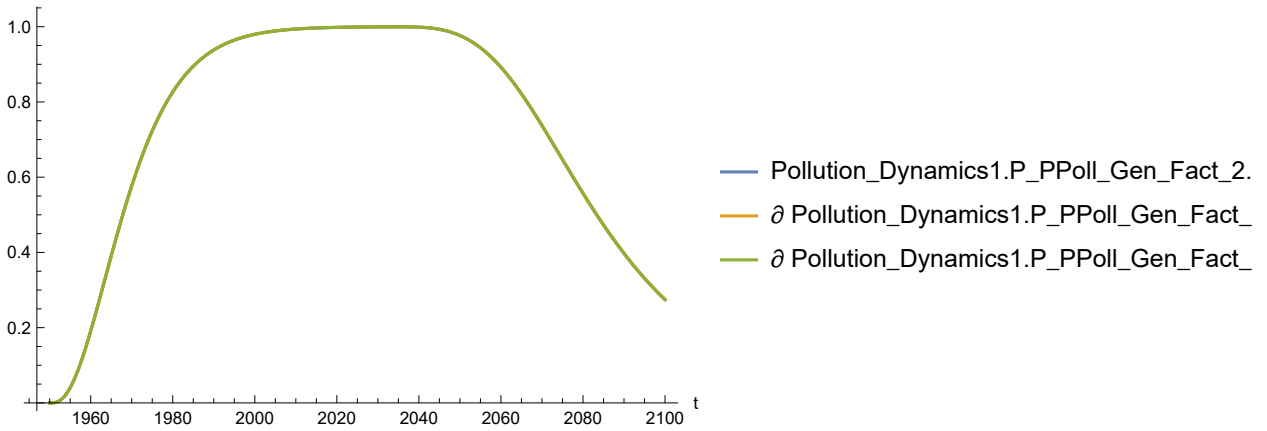
Out[269]=



In[270]:=

```
SystemModelPlot[simsensdata,
  {"Pollution_Dynamics1.P_PPoll_Gen_Fact_2.Smooth3.Integrator1.y",
   "Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[6]", percentvar}]
```

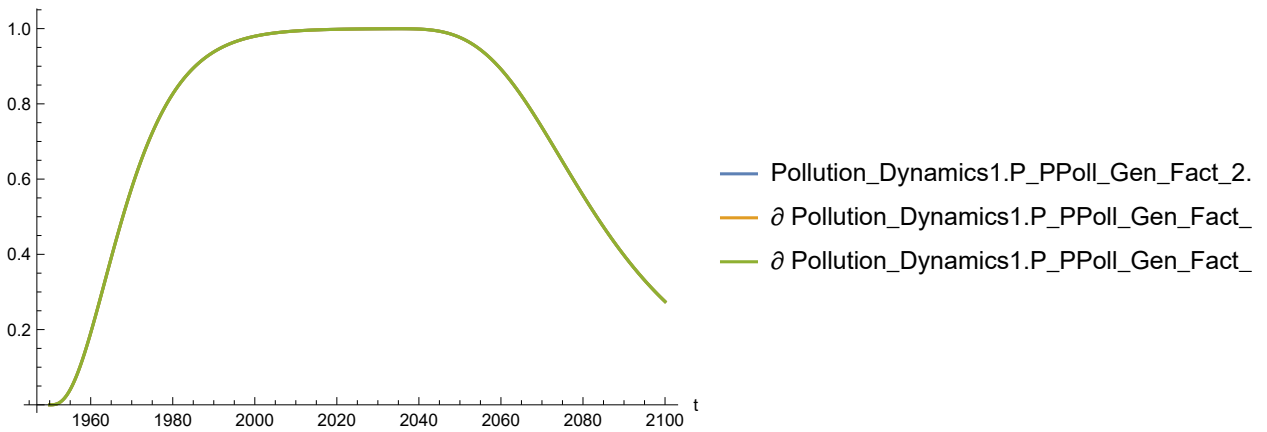
Out[270]=



In[271]:=

```
SystemModelPlot[simsensdata,
  {"Pollution_Dynamics1.P_PPoll_Gen_Fact_2.Smooth3.Integrator1.y",
   "Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[7]", percentvar}]
```

Out[271]=

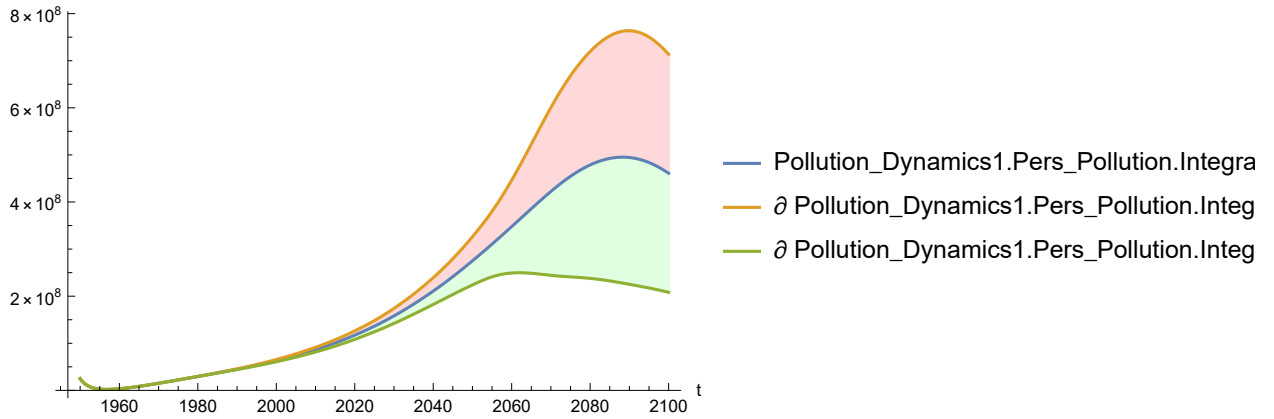


Plot the sensitivity of Pollution_Dynamics1.Pers_Pollution.Integrator1.y to Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals.

In[272]:=

```
SystemModelPlot[simsensdata, {"Pollution_Dynamics1.Pers_Pollution.Integrator1.y",
"Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[1]", percentvar}]
```

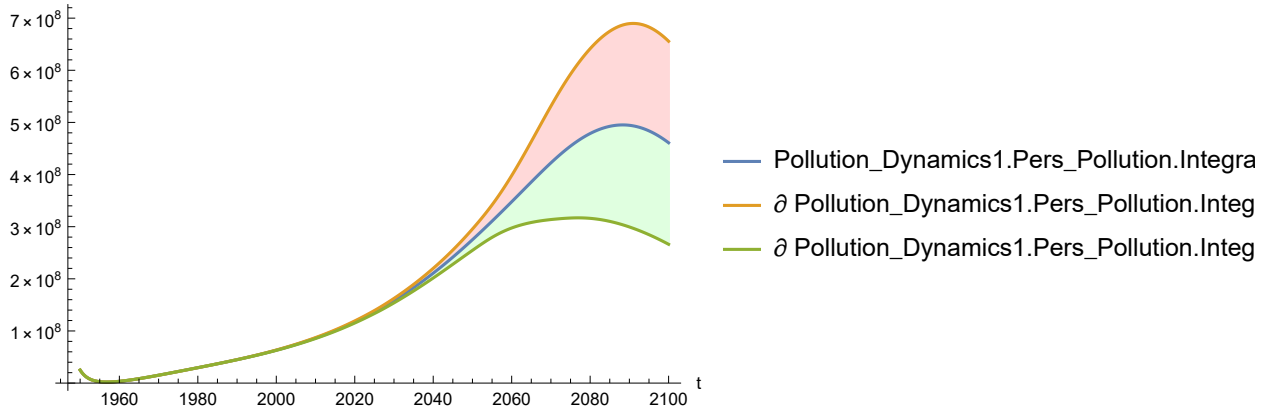
Out[272]=



In[273]:=

```
SystemModelPlot[simsensdata, {"Pollution_Dynamics1.Pers_Pollution.Integrator1.y",
"Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[2]", percentvar}]
```

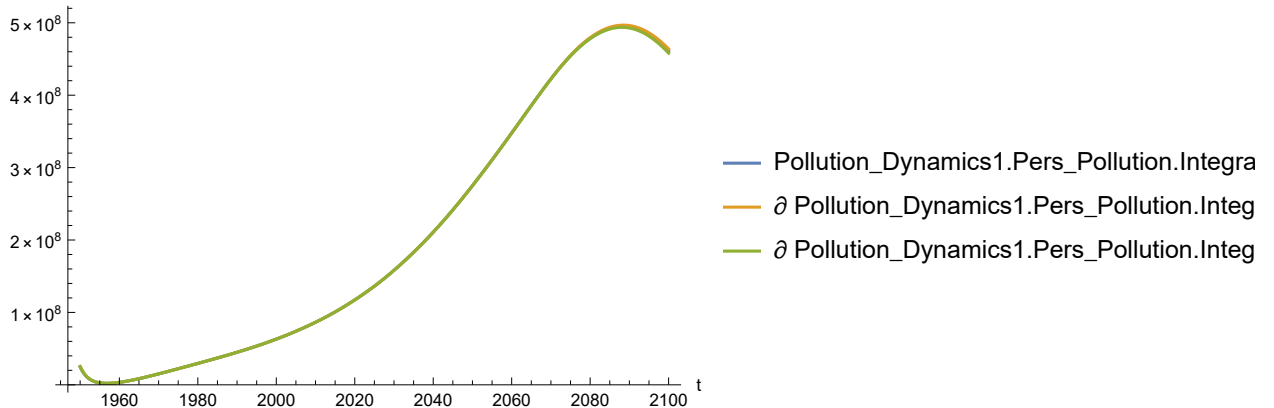
Out[273]=



In[274]:=

```
SystemModelPlot[simsensdata, {"Pollution_Dynamics1.Pers_Pollution.Integrator1.y",
"Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[3]", percentvar}]
```

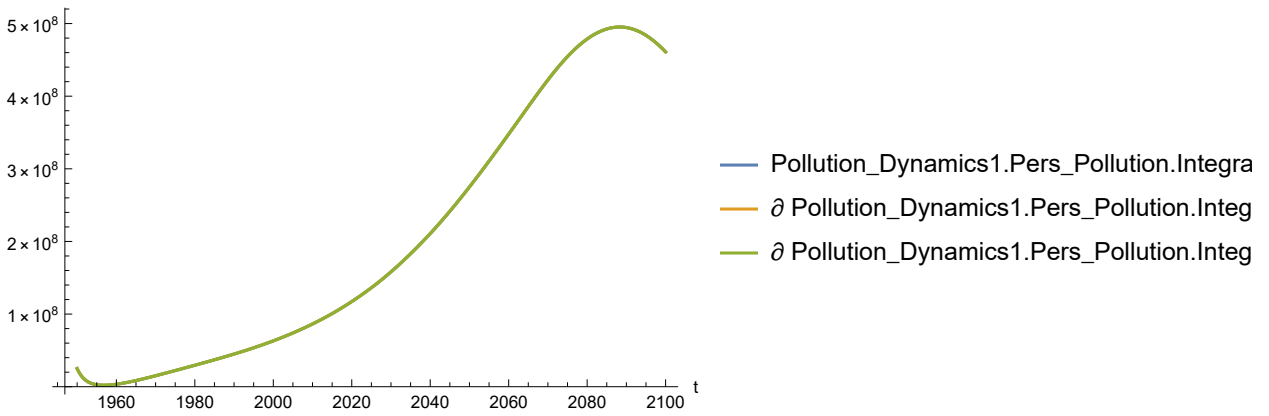
Out[274]=



In[275]:=

```
SystemModelPlot[simsensdata, {"Pollution_Dynamics1.Pers_Pollution.Integrator1.y",
"Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[4]", percentvar}]
```

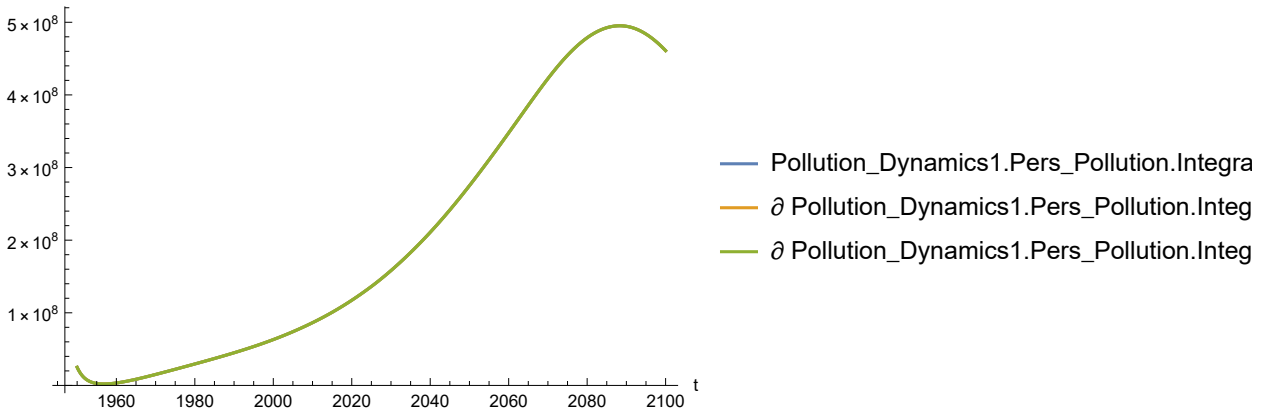
Out[275]=



In[276]:=

```
SystemModelPlot[simsensdata, {"Pollution_Dynamics1.Pers_Pollution.Integrator1.y",
"Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[5]", percentvar}]
```

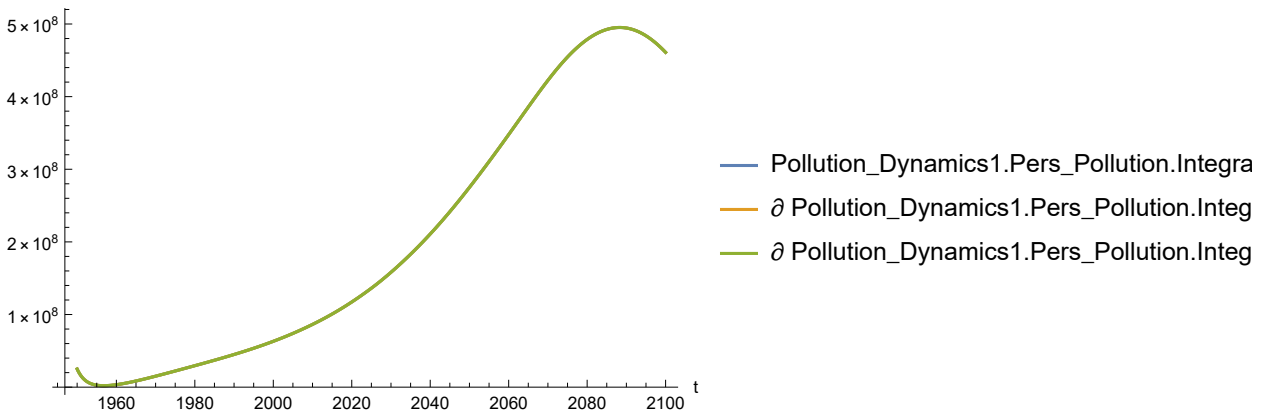
Out[276]=



In[277]:=

```
SystemModelPlot[simsensdata, {"Pollution_Dynamics1.Pers_Pollution.Integrator1.y",
"Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[6]", percentvar}]
```

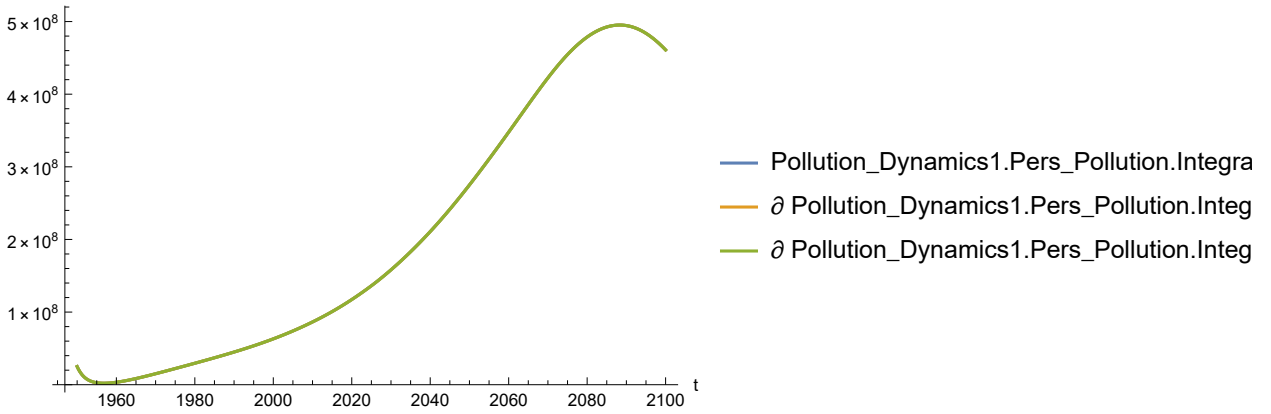
Out[277]=



In[278]:=

```
SystemModelPlot[simsensdata, {"Pollution_Dynamics1.Pers_Pollution.Integrator1.y",
"Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[7]", percentvar}]
```

Out[278]=

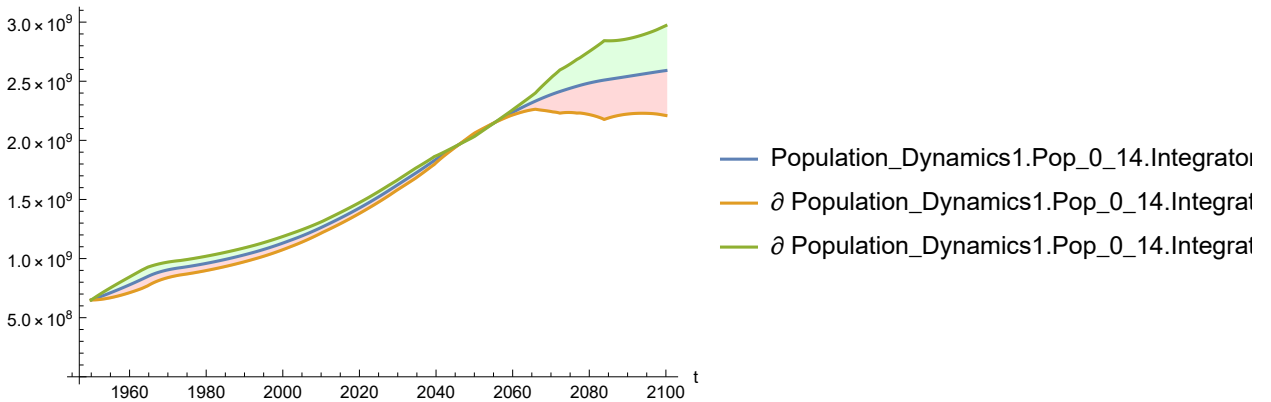


Plot sensitivity of population to **Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals**. In World3, population is divided into four subpopulations by age: 0-14 years, 15-44 years, 45-64 years, and 65 year and over.

In[279]:=

```
SystemModelPlot[simsensdata, {"Population_Dynamics1.Pop_0_14.Integrator1.y",
"Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[1]", percentvar}]
```

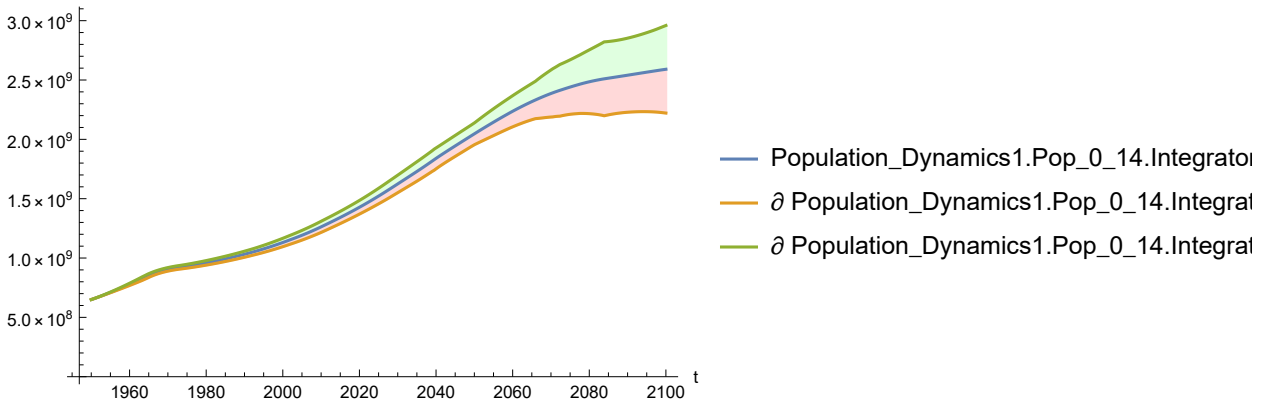
Out[279]=



In[280]:=

```
SystemModelPlot[simsensdata, {"Population_Dynamics1.Pop_0_14.Integrator1.y",
"Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[2]", percentvar}]
```

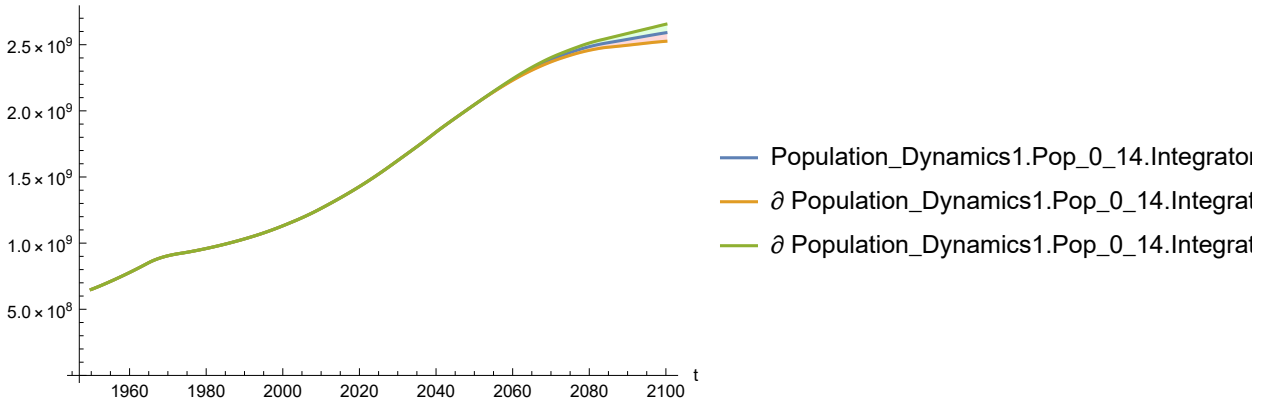
Out[280]=



In[281]:=

```
SystemModelPlot[simsensdata, {"Population_Dynamics1.Pop_0_14.Integrator1.y",
"Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[3]", percentvar}]
```

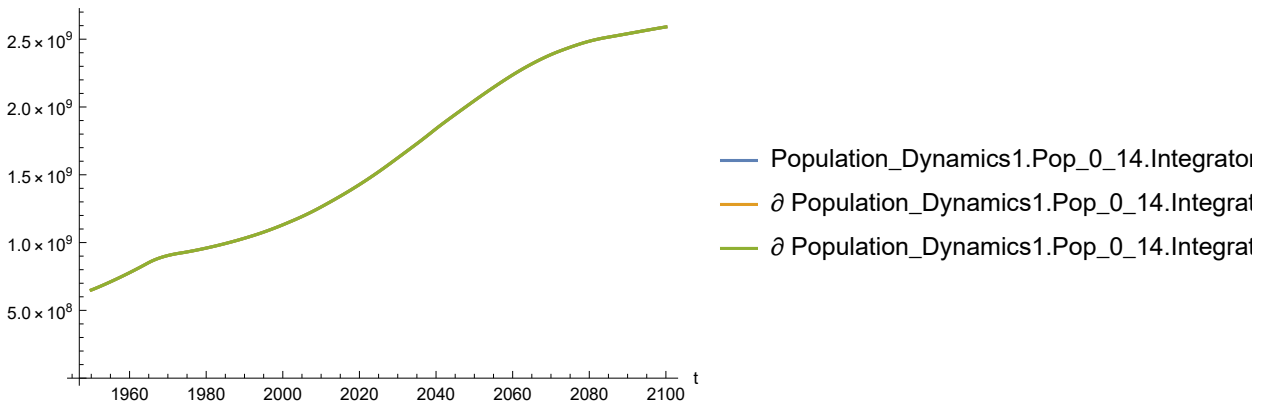
Out[281]=



In[282]:=

```
SystemModelPlot[simsensdata, {"Population_Dynamics1.Pop_0_14.Integrator1.y",
"Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[4]", percentvar}]
```

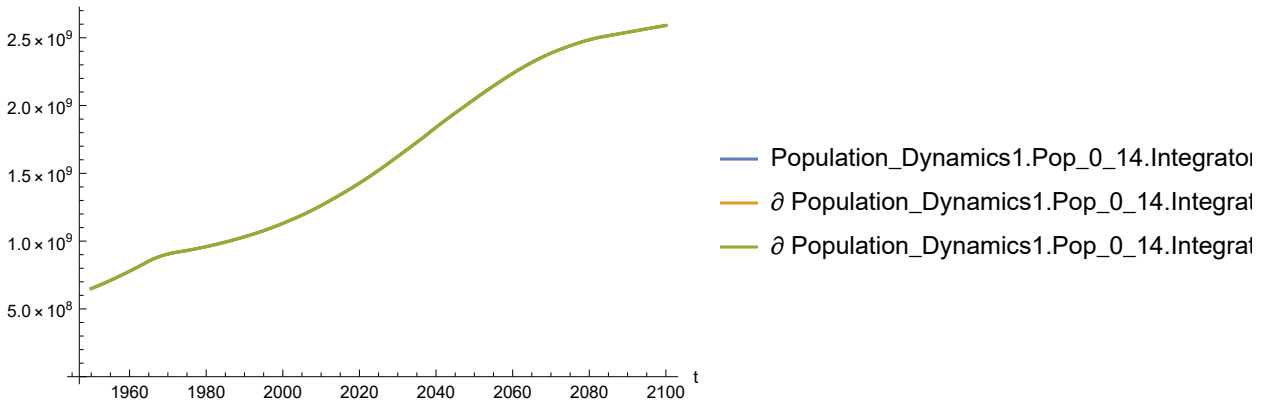
Out[282]=



In[283]:=

```
SystemModelPlot[simsensdata, {"Population_Dynamics1.Pop_0_14.Integrator1.y",
"Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[5]", percentvar}]
```

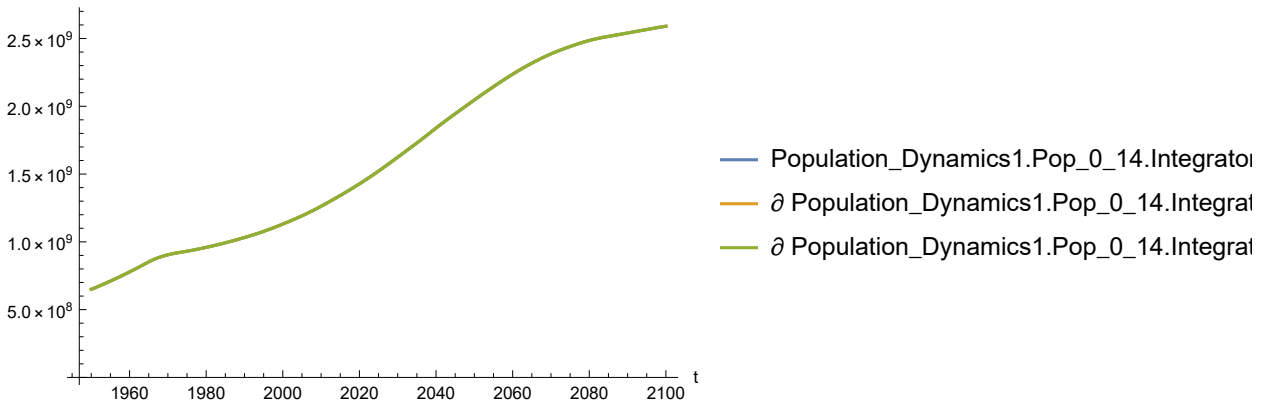
Out[283]=



In[284]:=

```
SystemModelPlot[simsensdata, {"Population_Dynamics1.Pop_0_14.Integrator1.y",
"Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[6]", percentvar}]
```

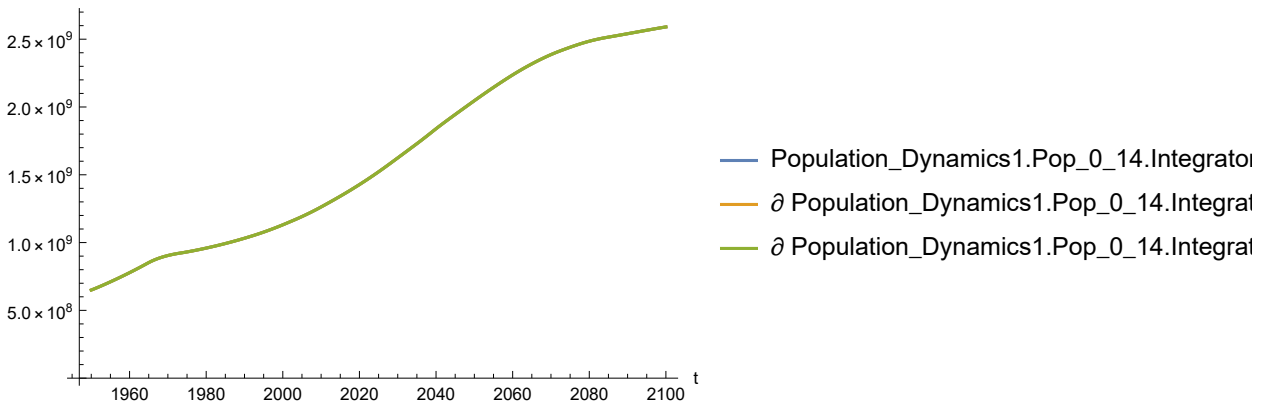
Out[284]=



In[285]:=

```
SystemModelPlot[simsensdata, {"Population_Dynamics1.Pop_0_14.Integrator1.y",
"Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[7]", percentvar}]
```

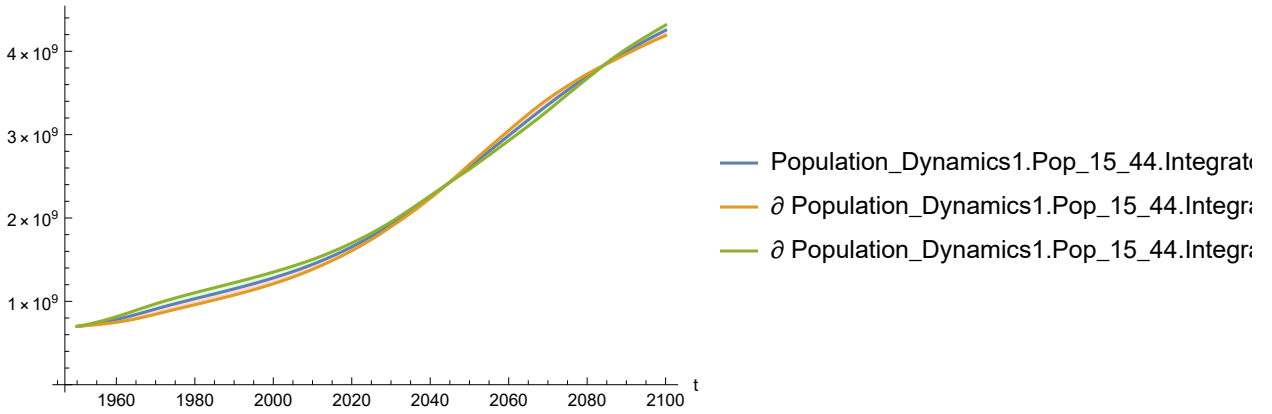
Out[285]=



In[286]:=

```
SystemModelPlot[simsensdata, {"Population_Dynamics1.Pop_15_44.Integrator1.y",
"Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[1]", percentvar}]
```

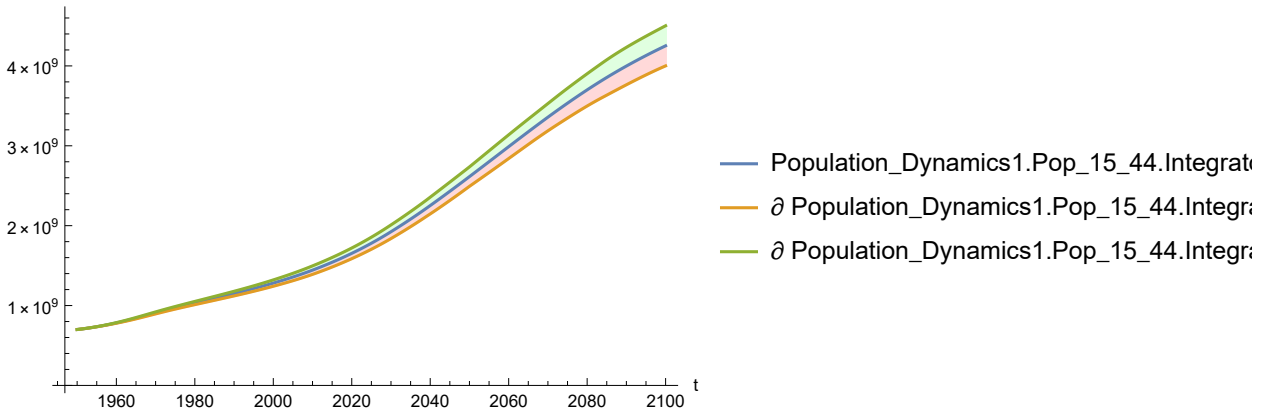
Out[286]=



In[287]:=

```
SystemModelPlot[simsensdata, {"Population_Dynamics1.Pop_15_44.Integrator1.y",
"Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[2]", percentvar}]
```

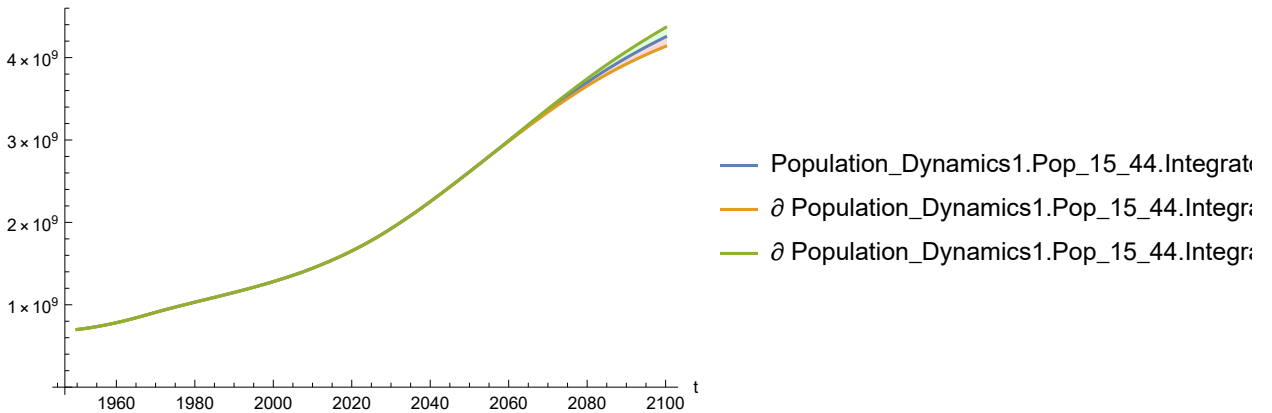
Out[287]=



In[288]:=

```
SystemModelPlot[simsensdata, {"Population_Dynamics1.Pop_15_44.Integrator1.y",
"Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[3]", percentvar}]
```

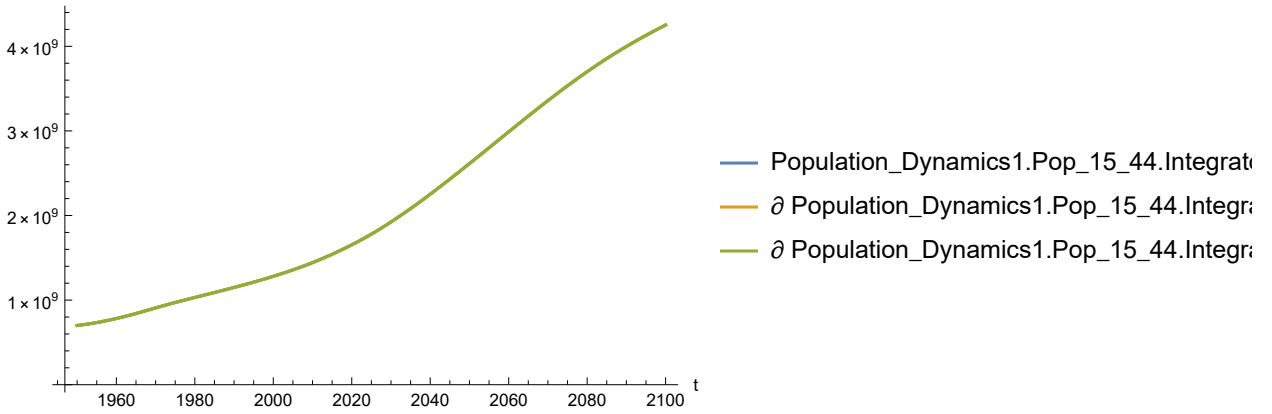
Out[288]=



In[289]:=

```
SystemModelPlot[simsensdata, {"Population_Dynamics1.Pop_15_44.Integrator1.y",
"Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[4]", percentvar}]
```

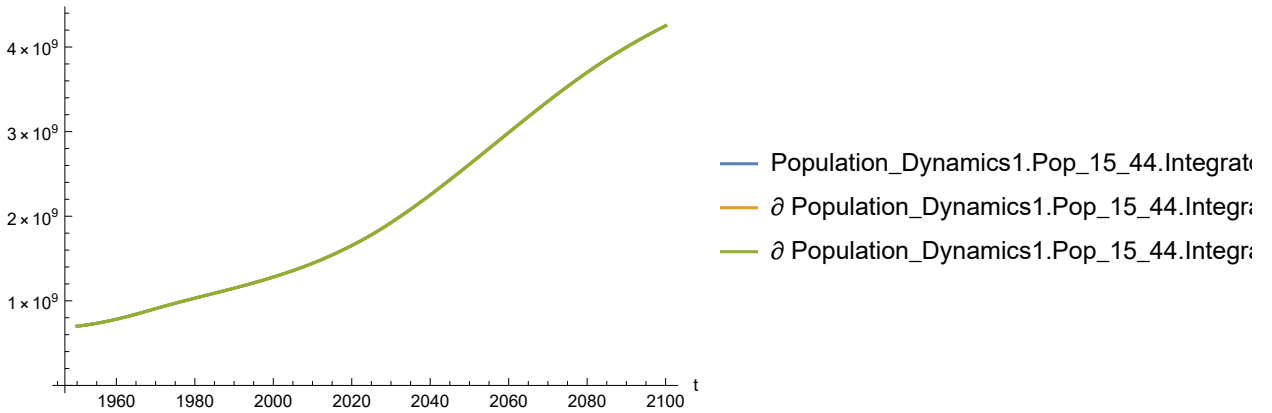
Out[289]=



In[290]:=

```
SystemModelPlot[simsensdata, {"Population_Dynamics1.Pop_15_44.Integrator1.y",
"Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[5]", percentvar}]
```

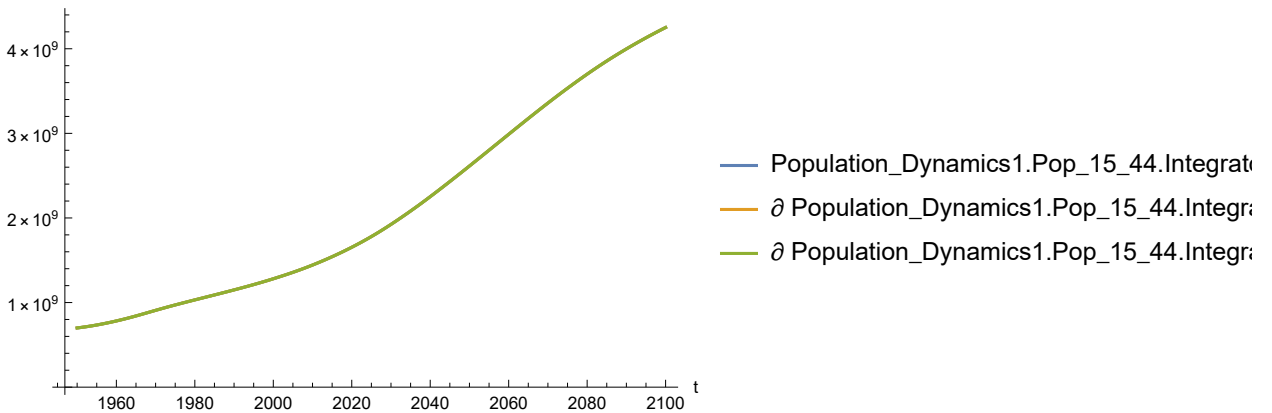
Out[290]=



In[291]:=

```
SystemModelPlot[simsensdata, {"Population_Dynamics1.Pop_15_44.Integrator1.y",
"Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[6]", percentvar}]
```

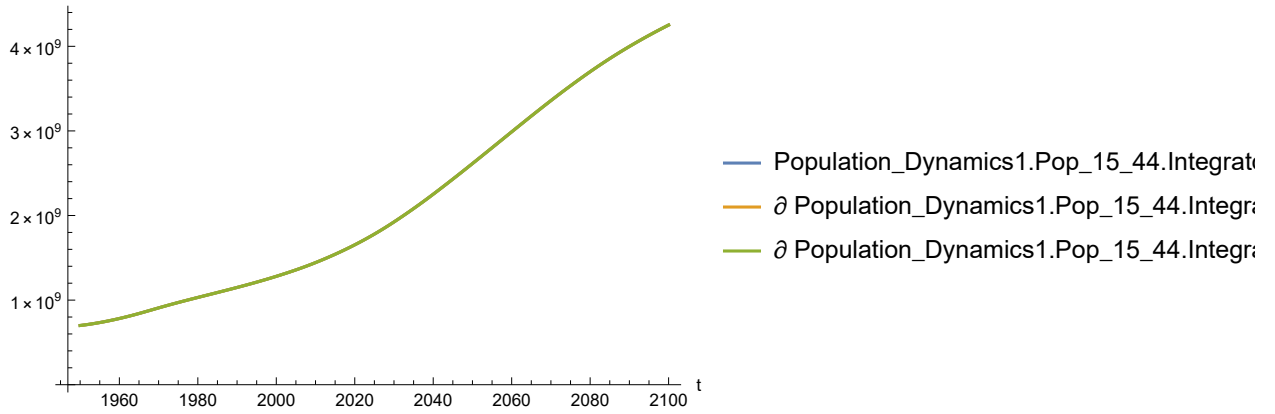
Out[291]=



In[292]:=

```
SystemModelPlot[simsensdata, {"Population_Dynamics1.Pop_15_44.Integrator1.y",
"Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[7]", percentvar}]
```

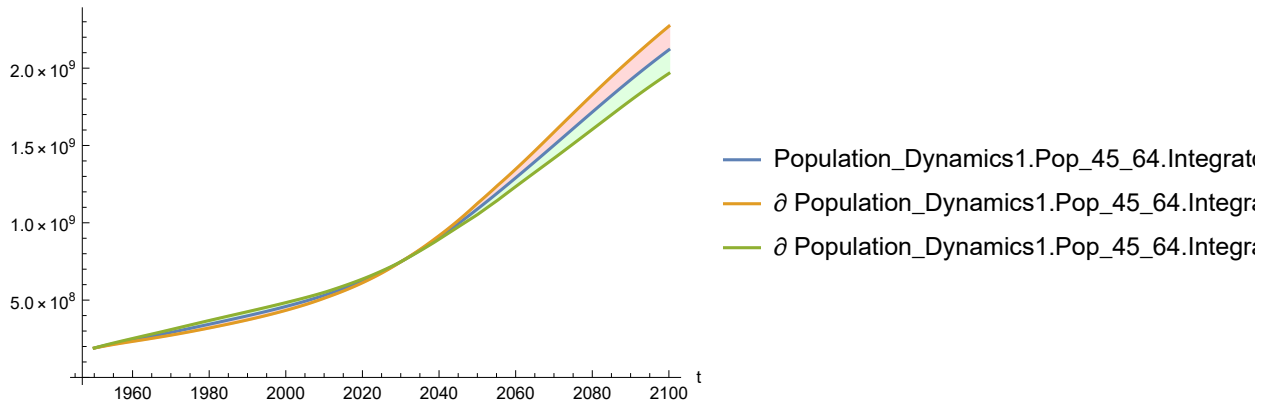
Out[292]=



In[293]:=

```
SystemModelPlot[simsensdata, {"Population_Dynamics1.Pop_45_64.Integrator1.y",
"Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[1]", percentvar}]
```

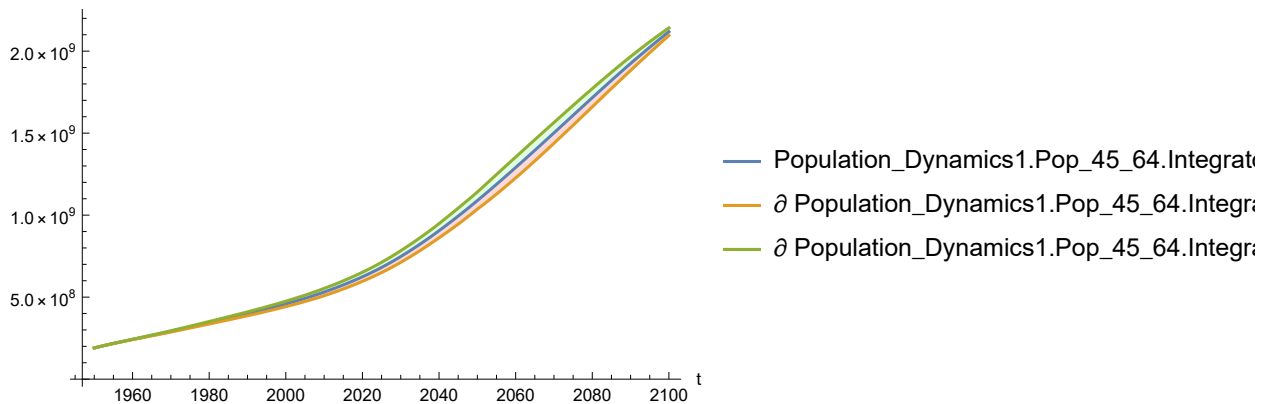
Out[293]=



In[294]:=

```
SystemModelPlot[simsensdata, {"Population_Dynamics1.Pop_45_64.Integrator1.y",
"Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[2]", percentvar}]
```

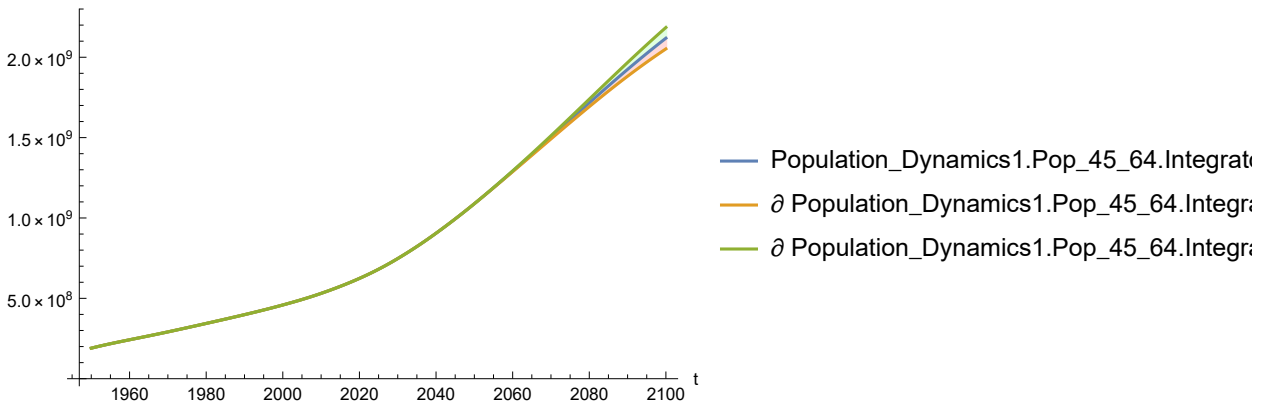
Out[294]=



In[295]:=

```
SystemModelPlot[simsensdata, {"Population_Dynamics1.Pop_45_64.Integrator1.y",
"Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[3]", percentvar}]
```

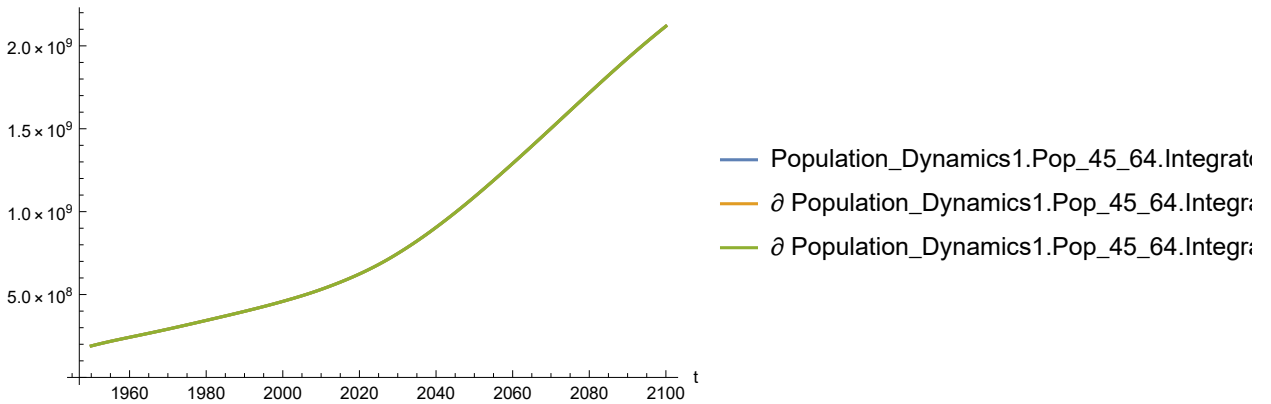
Out[295]=



In[296]:=

```
SystemModelPlot[simsensdata, {"Population_Dynamics1.Pop_45_64.Integrator1.y",
"Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[4]", percentvar}]
```

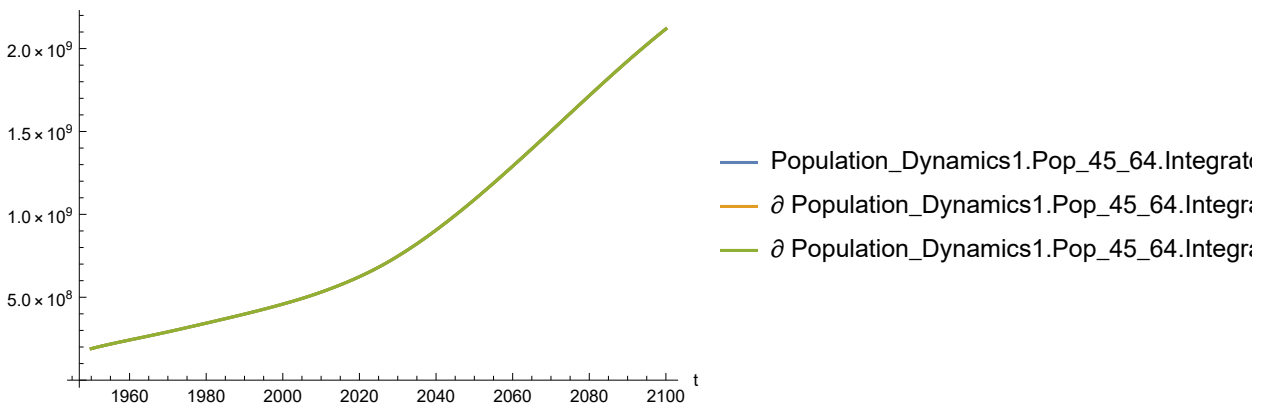
Out[296]=



In[297]:=

```
SystemModelPlot[simsensdata, {"Population_Dynamics1.Pop_45_64.Integrator1.y",
"Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[5]", percentvar}]
```

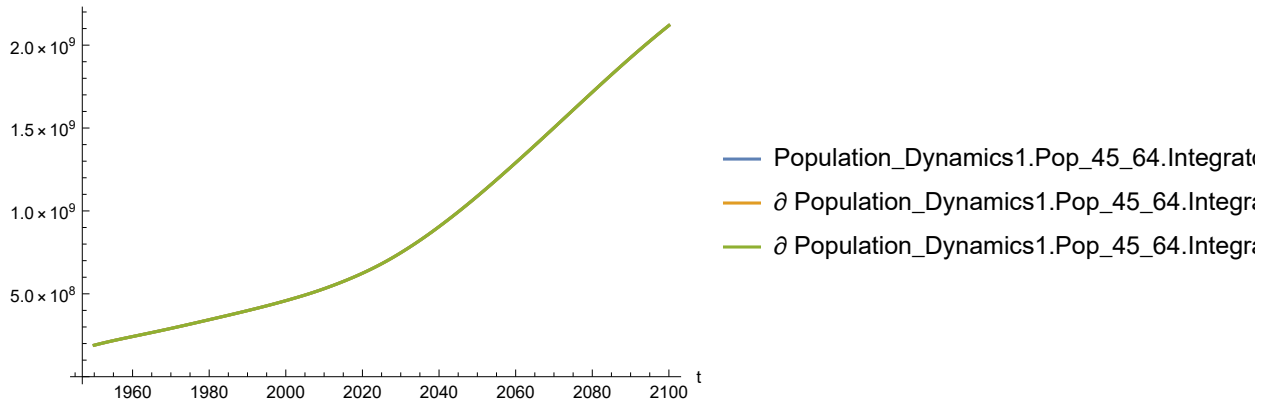
Out[297]=



In[298]:=

```
SystemModelPlot[simsensdata, {"Population_Dynamics1.Pop_45_64.Integrator1.y",
"Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[6]", percentvar}]
```

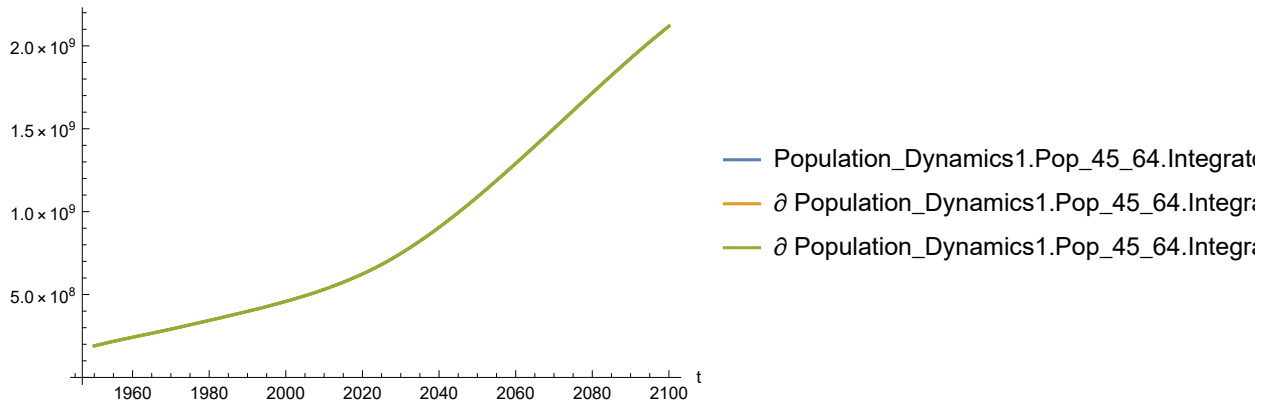
Out[298]=



In[299]:=

```
SystemModelPlot[simsensdata, {"Population_Dynamics1.Pop_45_64.Integrator1.y",
"Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[7]", percentvar}]
```

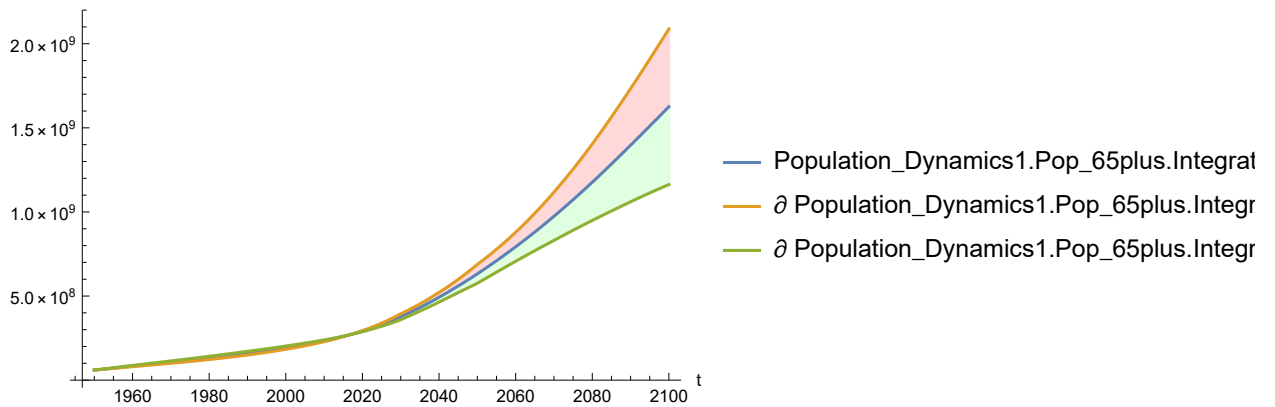
Out[299]=



In[300]:=

```
SystemModelPlot[simsensdata, {"Population_Dynamics1.Pop_65plus.Integrator1.y",
"Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[1]", percentvar}]
```

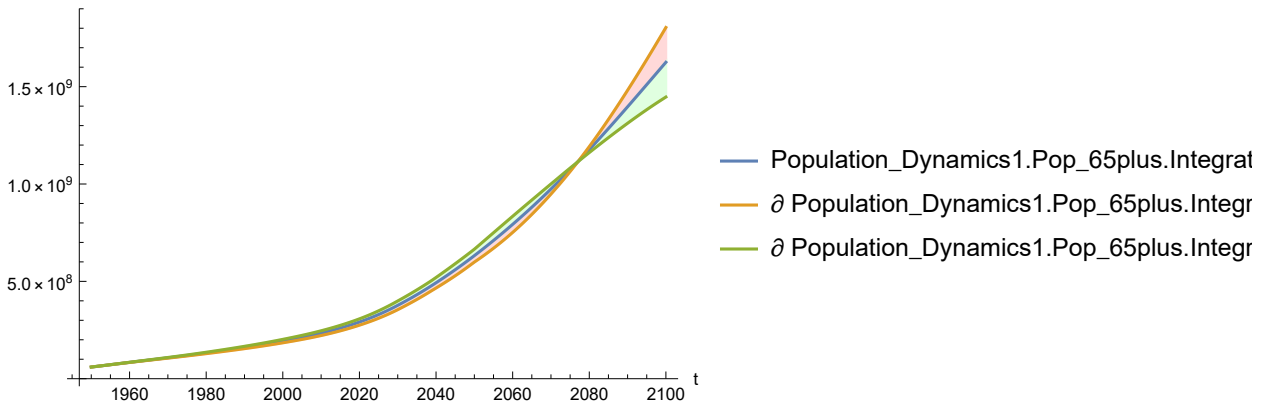
Out[300]=



In[301]:=

```
SystemModelPlot[simsensdata, {"Population_Dynamics1.Pop_65plus.Integrator1.y",
"Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[2]", percentvar}]
```

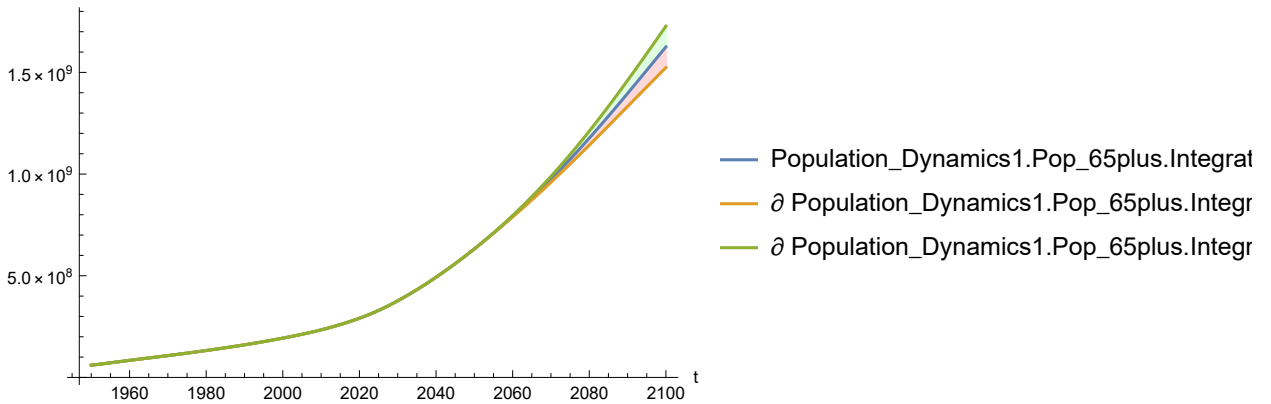
Out[301]=



In[302]:=

```
SystemModelPlot[simsensdata, {"Population_Dynamics1.Pop_65plus.Integrator1.y",
"Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[3]", percentvar}]
```

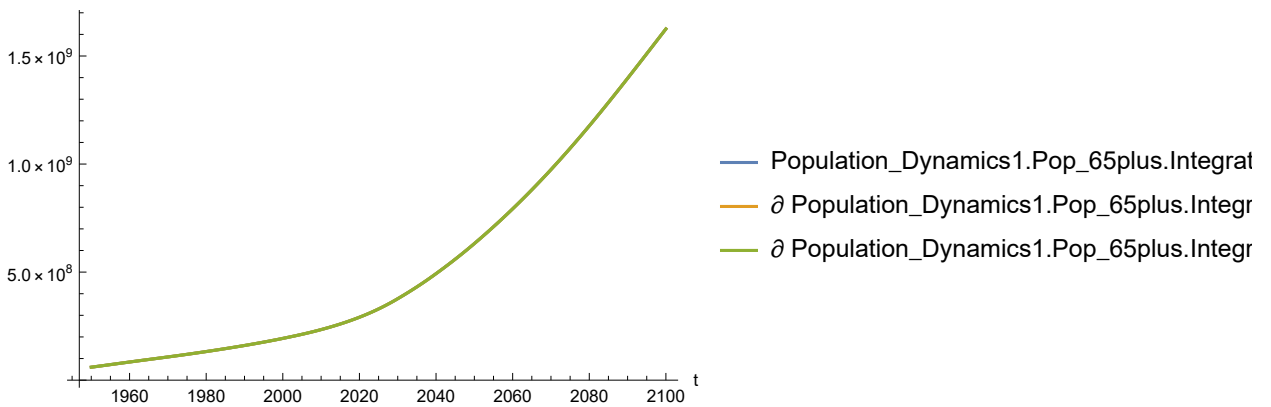
Out[302]=



In[303]:=

```
SystemModelPlot[simsensdata, {"Population_Dynamics1.Pop_65plus.Integrator1.y",
"Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[4]", percentvar}]
```

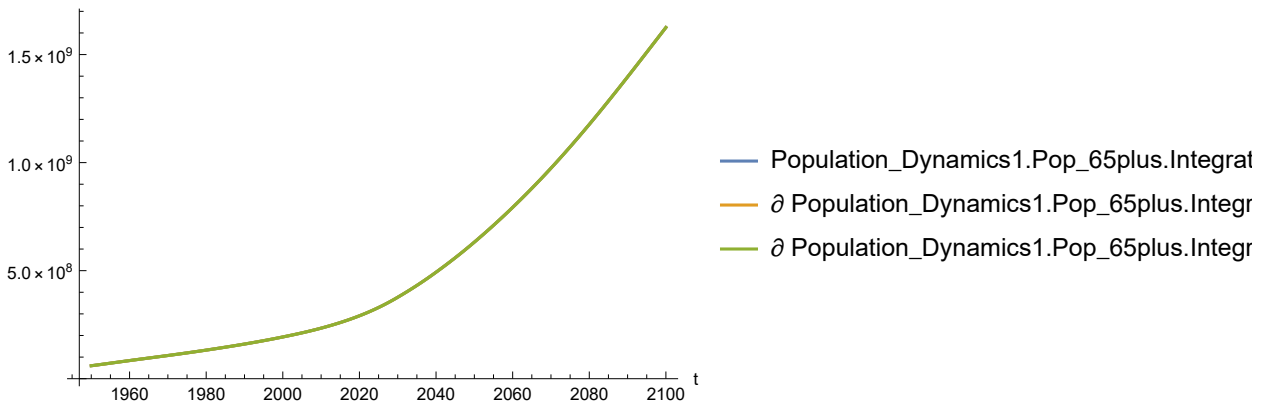
Out[303]=



In[304]:=

```
SystemModelPlot[simsensdata, {"Population_Dynamics1.Pop_65plus.Integrator1.y",
"Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[5]", percentvar}]
```

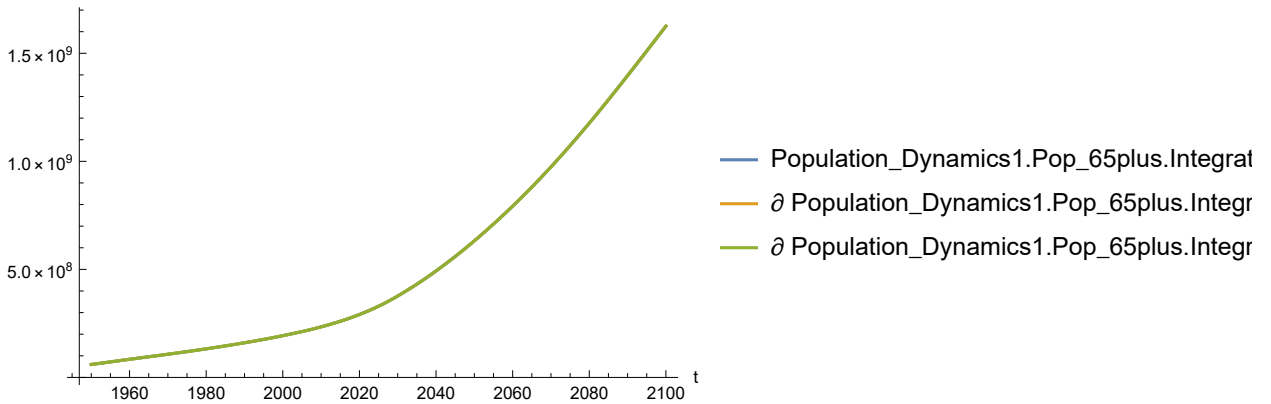
Out[304]=



In[305]:=

```
SystemModelPlot[simsensdata, {"Population_Dynamics1.Pop_65plus.Integrator1.y",
"Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[6]", percentvar}]
```

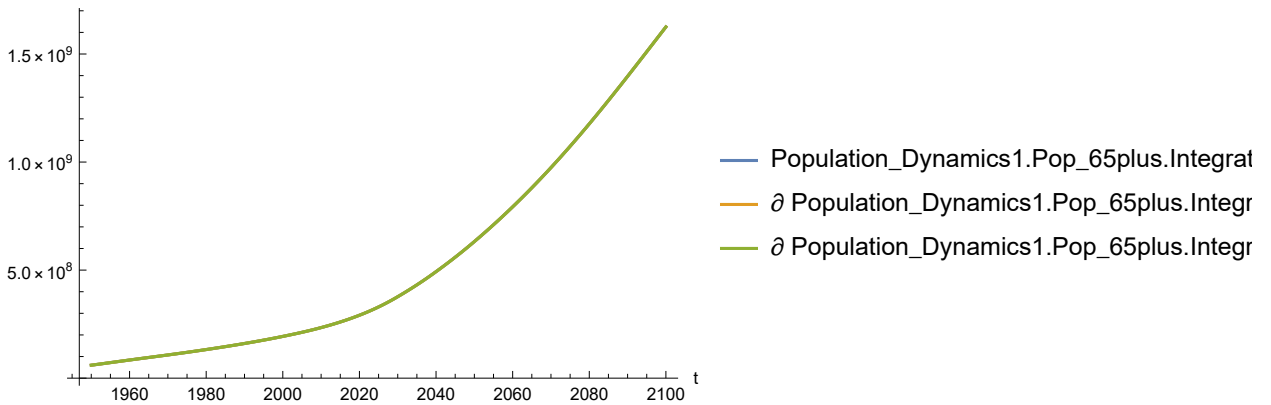
Out[305]=



In[306]:=

```
SystemModelPlot[simsensdata, {"Population_Dynamics1.Pop_65plus.Integrator1.y",
"Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[7]", percentvar}]
```

Out[306]=

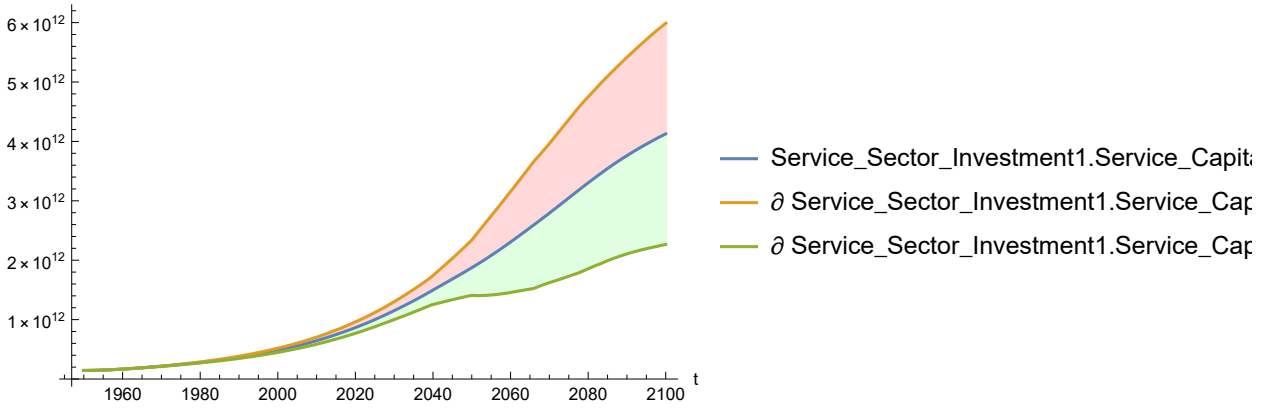


Plot sensitivity of Service_Sector_Investment1.Service_Capital.Integrator1.y to Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals.

In[307]:=

```
SystemModelPlot[simsensdata,
  {"Service_Sector_Investment1.Service_Capital.Integrator1.y",
   "Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[1]", percentvar}]
```

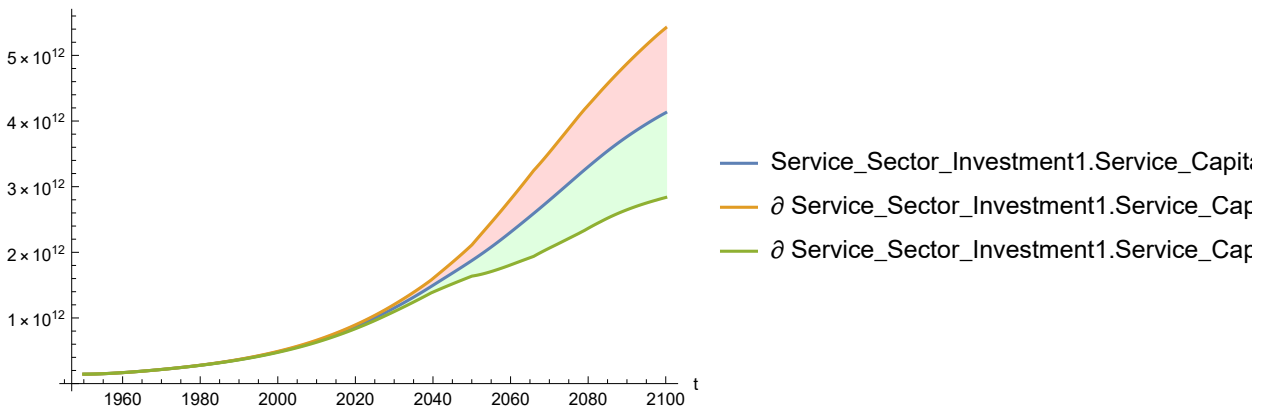
Out[307]=



In[308]:=

```
SystemModelPlot[simsensdata,
  {"Service_Sector_Investment1.Service_Capital.Integrator1.y",
   "Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[2]", percentvar}]
```

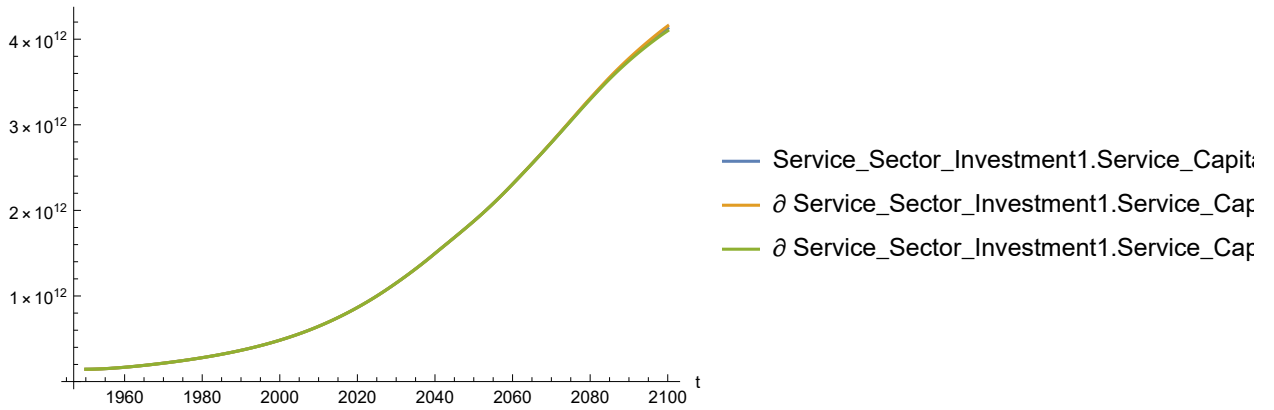
Out[308]=



In[309]:=

```
SystemModelPlot[simsensdata,
  {"Service_Sector_Investment1.Service_Capital.Integrator1.y",
   "Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[3]", percentvar}]
```

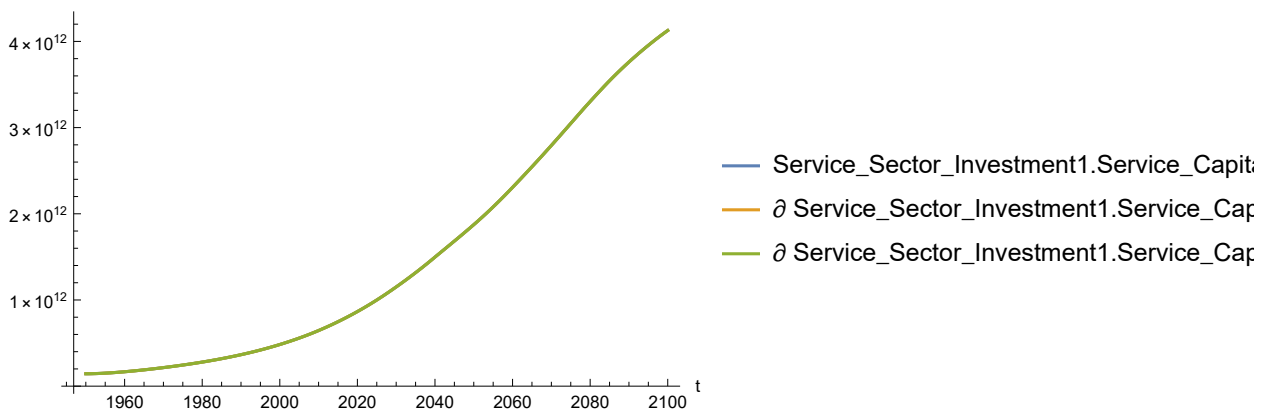
Out[309]=



In[310]:=

```
SystemModelPlot[simsensdata,
  {"Service_Sector_Investment1.Service_Capital.Integrator1.y",
   "Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[4]", percentvar}]
```

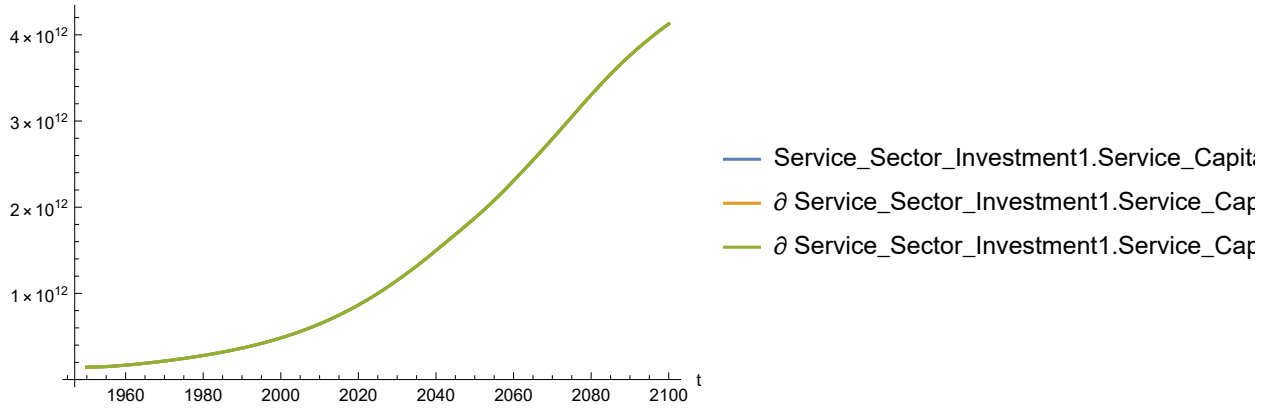
Out[310]=



In[311]:=

```
SystemModelPlot[simsensdata,
  {"Service_Sector_Investment1.Service_Capital.Integrator1.y",
   "Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[5]", percentvar}]
```

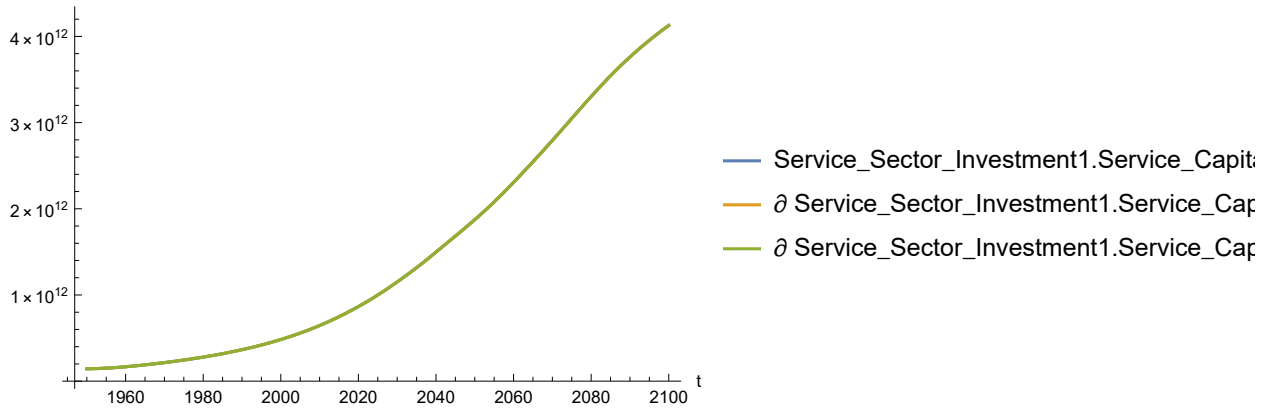
Out[311]=



In[312]:=

```
SystemModelPlot[simsensdata,
  {"Service_Sector_Investment1.Service_Capital.Integrator1.y",
   "Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[6]", percentvar}]
```

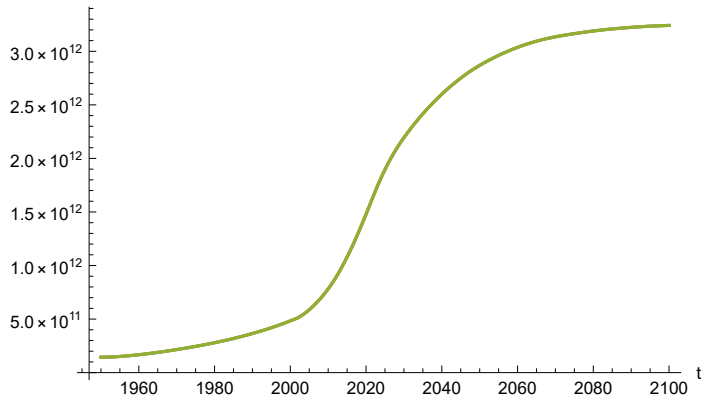
Out[312]=



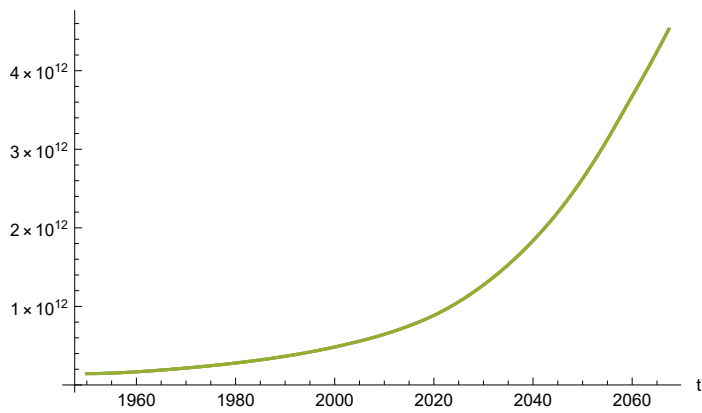
In[313]:=

```
SystemModelPlot[simsensdata,
  {"Service_Sector_Investment1.Service_Capital.Integrator1.y",
   "Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[7]", percentvar}]
```

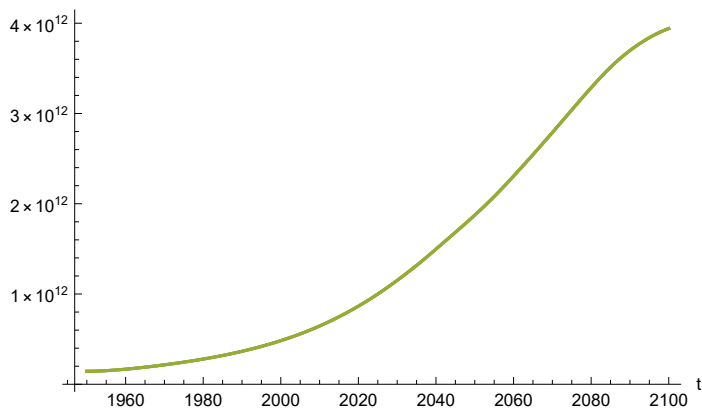

Out[*]=



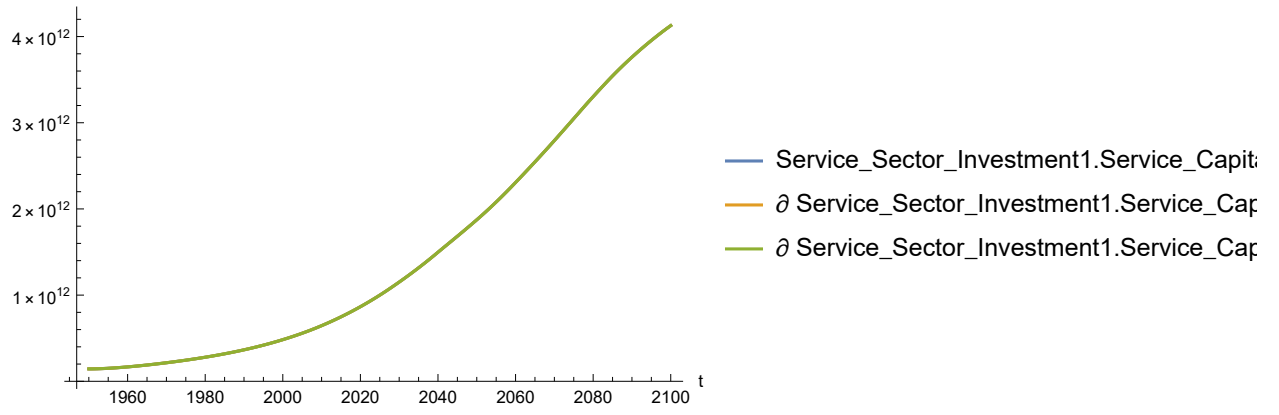
Out[*]=



Out[*]=



Out[313]=



Appendix 6. Experiment 6. Benchmark Scenario 6. Compute and plot sensitivity of various World3 variables to Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals values.

Last modified: 28 August 2022/1115 US CT.

Author: J. K. Horner
email: jhorner@cybermesa.com

Platform:

Windows 10

Wolfram Mathematica Home Version v13.1, dynamic updating enabled

Wolfram SystemModeler v12.0

Open Modelica v3.2.2

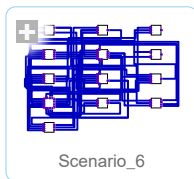
Microsoft Visual C++, version-compatible with the above

Load Benchmark Scenario 6.

In[1]:=

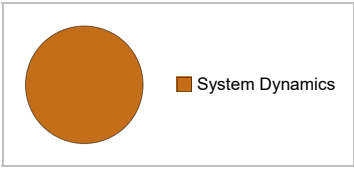
```
mysim = SystemModel["SystemDynamics.WorldDynamics.World3.Scenario_6"]
```

Out[1]:=



Show high-level properties of the scenario.

In[2]:= **mysummary = mysim["Summary"]**

	M	SystemDynamics.WorldDynamics.World3.Scenario_6
	D	More accessible non-recoverable natural resources, pollution control, land yield enhancement, erosion pro
	S	True
	P	0
	C	106
	B	True
Out[2]=	Sy	265
	Sy	265
	D	

Set percent variation. 0.1 = nominal +/- 10%.

In[3]:= **percentvar = 0.1**

Out[3]= 0.1

Show the default **Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals**.

In[4]:= **SystemModel[mysim] [**
{"ParameterValues", "Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[1]"}]

Out[4]= {Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[1] → 1}

In[5]:= **SystemModel[mysim] [**
{"ParameterValues", "Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[2]"}]

Out[5]= {Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[2] → 1.5}

In[6]:= **SystemModel[mysim] [**
{"ParameterValues", "Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[3]"}]

Out[6]= {Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[3] → 1.9}

In[7]:= **SystemModel[mysim] [**
{"ParameterValues", "Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[4]"}]

Out[7]= {Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[4] → 2}

```

In[8]:= SystemModel[mysim] [
  {"ParameterValues", "Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[5]"}]
Out[8]= {Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[5] → 2}

In[9]:= SystemModel[mysim] [
  {"ParameterValues", "Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[6]"}]
Out[9]= {Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[6] → 2}

In[10]:= SystemModel[mysim] [
  {"ParameterValues", "Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[7]"}]
Out[10]= {Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[7] → 2}


```

Retrieve all variables that **SystemModelSimulateSensitivity** says depend on **Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals**. Set scenario start at 1950 because various **SystemModel** functions have problems with a step function at scenario time 1940. (This is a World3-specific quirk.)

```

In[11]:= simsensdata = SystemModelSimulateSensitivity[mysim,
  {1950, 2100}, {"Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[1]",
  "Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[2]",
  "Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[3]",
  "Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[4]",
  "Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[5]",
  "Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[6]",
  "Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[7]"}]

```

 **SystemModelSimulateSensitivity**: At time 2002. s: An event occurred while performing sensitivity analysis. This may produce incorrect results depending on your model. Further similar warnings will not be displayed.

Out[11]=

```

SystemModelSimulationData [
   Model: Scenario_6
  Time: 1.95 × 103 to 2.10 × 103
]

```

Show the names of the World3 variables in **simsensdata** that **SystemModelSimulateSensitivity** recognizes.

```

In[12]:= simsensdata["SensitivityNames"]
Out[12]=
{ {Arable_Land_Dynamics1.Arable_Land.Integrator1.y,
  Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[1] },
  {Arable_Land_Dynamics1.Arable_Land.Integrator1.y,
  Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[2] },
  {Arable_Land_Dynamics1.Arable_Land.Integrator1.y,
  Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[3] },
  {Arable_Land_Dynamics1.Arable_Land.Integrator1.y,
  Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[4] },
  {Arable_Land_Dynamics1.Arable_Land.Integrator1.y,
  Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[5] },

```

```

{Arable_Land_Dynamics1.Arable_Land.Integrator1.y,
 Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[6]},
{Arable_Land_Dynamics1.Arable_Land.Integrator1.y,
 Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[7]},
{Arable_Land_Dynamics1.Pot_Arable_Land.Integrator1.y,
 Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[1]},
{Arable_Land_Dynamics1.Pot_Arable_Land.Integrator1.y,
 Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[2]},
{Arable_Land_Dynamics1.Pot_Arable_Land.Integrator1.y,
 Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[3]},
{Arable_Land_Dynamics1.Pot_Arable_Land.Integrator1.y,
 Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[4]},
{Arable_Land_Dynamics1.Pot_Arable_Land.Integrator1.y,
 Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[5]},
{Arable_Land_Dynamics1.Pot_Arable_Land.Integrator1.y,
 Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[6]},
{Arable_Land_Dynamics1.Pot_Arable_Land.Integrator1.y,
 Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[7]},
{Arable_Land_Dynamics1.Urban_Ind_Land.Integrator1.y,
 Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[1]},
{Arable_Land_Dynamics1.Urban_Ind_Land.Integrator1.y,
 Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[2]},
{Arable_Land_Dynamics1.Urban_Ind_Land.Integrator1.y,
 Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[3]},
{Arable_Land_Dynamics1.Urban_Ind_Land.Integrator1.y,
 Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[4]},
{Arable_Land_Dynamics1.Urban_Ind_Land.Integrator1.y,
 Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[5]},
{Arable_Land_Dynamics1.Urban_Ind_Land.Integrator1.y,
 Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[6]},
{Arable_Land_Dynamics1.Urban_Ind_Land.Integrator1.y,
 Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[7]},
{Food_Production1.Agr_Inp.Integrator1.y,
 Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[1]},
{Food_Production1.Agr_Inp.Integrator1.y,
 Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[2]},
{Food_Production1.Agr_Inp.Integrator1.y,
 Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[3]},
{Food_Production1.Agr_Inp.Integrator1.y,
 Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[4]},
{Food_Production1.Agr_Inp.Integrator1.y,
 Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[5]},
{Food_Production1.Agr_Inp.Integrator1.y,
 Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[6]},
{Food_Production1.Agr_Inp.Integrator1.y,
 Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[7]},
{Food_Production1.P_Land_Yield_Fact_2.Smooth1.Integrator1.y,

```

```

Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[1]},
{Food_Production1.P_Land_Yield_Fact_2.Smooth1.Integrator1.y,
Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[2]},
{Food_Production1.P_Land_Yield_Fact_2.Smooth1.Integrator1.y,
Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[3]},
{Food_Production1.P_Land_Yield_Fact_2.Smooth1.Integrator1.y,
Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[4]},
{Food_Production1.P_Land_Yield_Fact_2.Smooth1.Integrator1.y,
Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[5]},
{Food_Production1.P_Land_Yield_Fact_2.Smooth1.Integrator1.y,
Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[6]},
{Food_Production1.P_Land_Yield_Fact_2.Smooth1.Integrator1.y,
Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[7]},
{Food_Production1.P_Land_Yield_Fact_2.Smooth2.Integrator1.y,
Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[1]},
{Food_Production1.P_Land_Yield_Fact_2.Smooth2.Integrator1.y,
Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[2]},
{Food_Production1.P_Land_Yield_Fact_2.Smooth2.Integrator1.y,
Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[3]},
{Food_Production1.P_Land_Yield_Fact_2.Smooth2.Integrator1.y,
Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[4]},
{Food_Production1.P_Land_Yield_Fact_2.Smooth2.Integrator1.y,
Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[5]},
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Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[6]},
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Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[7]},
{Food_Production1.P_Land_Yield_Fact_2.Smooth3.Integrator1.y,
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{Food_Production1.P_Land_Yield_Fact_2.Smooth3.Integrator1.y,
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{Food_Production1.P_Land_Yield_Fact_2.Smooth3.Integrator1.y,
Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[3]},
{Food_Production1.P_Land_Yield_Fact_2.Smooth3.Integrator1.y,
Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[4]},
{Food_Production1.P_Land_Yield_Fact_2.Smooth3.Integrator1.y,
Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[5]},
{Food_Production1.P_Land_Yield_Fact_2.Smooth3.Integrator1.y,
Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[6]},
{Food_Production1.P_Land_Yield_Fact_2.Smooth3.Integrator1.y,
Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[7]},
{Food_Production1.Perc_Food_Ratio.Integrator1.y,
Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[1]},
{Food_Production1.Perc_Food_Ratio.Integrator1.y,
Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[2]},
{Food_Production1.Perc_Food_Ratio.Integrator1.y,
Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[3]},

```

```

{Food_Production1.Perc_Food_Ratio.Integrator1.y,
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{Food_Production1.Perc_Food_Ratio.Integrator1.y,
 Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[7]},
{Human_Fertility1.Avg_Ind_Out_PC.Smooth_of_Input.Integrator1.y,
 Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[1]},
{Human_Fertility1.Avg_Ind_Out_PC.Smooth_of_Input.Integrator1.y,
 Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[2]},
{Human_Fertility1.Avg_Ind_Out_PC.Smooth_of_Input.Integrator1.y,
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{Human_Fertility1.Avg_Ind_Out_PC.Smooth_of_Input.Integrator1.y,
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{Human_Fertility1.Del_Ind_Out_PC.Smooth1.Integrator1.y,
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{Human_Fertility1.Del_Ind_Out_PC.Smooth2.Integrator1.y,
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 Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[3]},
{Human_Fertility1.Del_Ind_Out_PC.Smooth2.Integrator1.y,
 Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[4]},
{Human_Fertility1.Del_Ind_Out_PC.Smooth2.Integrator1.y,
 Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[5]},
{Human_Fertility1.Del_Ind_Out_PC.Smooth2.Integrator1.y,

```



```

Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[6]},
{Human_Fertility1.Del_Ind_Out_PC.Smooth2.Integrator1.y,
Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[7]},
{Human_Fertility1.Del_Ind_Out_PC.Smooth3.Integrator1.y,
Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[1]},
{Human_Fertility1.Del_Ind_Out_PC.Smooth3.Integrator1.y,
Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[2]},
{Human_Fertility1.Del_Ind_Out_PC.Smooth3.Integrator1.y,
Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[3]},
{Human_Fertility1.Del_Ind_Out_PC.Smooth3.Integrator1.y,
Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[4]},
{Human_Fertility1.Del_Ind_Out_PC.Smooth3.Integrator1.y,
Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[5]},
{Human_Fertility1.Del_Ind_Out_PC.Smooth3.Integrator1.y,
Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[6]},
{Human_Fertility1.Del_Ind_Out_PC.Smooth3.Integrator1.y,
Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[7]},
{Human_Fertility1.Fert_Cont_Facil_PC.Smooth1.Integrator1.y,
Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[1]},
{Human_Fertility1.Fert_Cont_Facil_PC.Smooth1.Integrator1.y,
Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[2]},
{Human_Fertility1.Fert_Cont_Facil_PC.Smooth1.Integrator1.y,
Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[3]},
{Human_Fertility1.Fert_Cont_Facil_PC.Smooth1.Integrator1.y,
Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[4]},
{Human_Fertility1.Fert_Cont_Facil_PC.Smooth1.Integrator1.y,
Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[5]},
{Human_Fertility1.Fert_Cont_Facil_PC.Smooth1.Integrator1.y,
Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[6]},
{Human_Fertility1.Fert_Cont_Facil_PC.Smooth1.Integrator1.y,
Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[7]},
{Human_Fertility1.Fert_Cont_Facil_PC.Smooth2.Integrator1.y,
Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[1]},
{Human_Fertility1.Fert_Cont_Facil_PC.Smooth2.Integrator1.y,
Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[2]},
{Human_Fertility1.Fert_Cont_Facil_PC.Smooth2.Integrator1.y,
Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[3]},
{Human_Fertility1.Fert_Cont_Facil_PC.Smooth2.Integrator1.y,
Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[4]},
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Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[1]},
{Pollution_Dynamics1.P_PPoll_Gen_Fact_2.Smooth3.Integrator1.y,
Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[2]},

```

```

{Pollution_Dynamics1.P_PPoll_Gen_Fact_2.Smooth3.Integrator1.y,
 Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[3]},
{Pollution_Dynamics1.P_PPoll_Gen_Fact_2.Smooth3.Integrator1.y,
 Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[4]},
{Pollution_Dynamics1.P_PPoll_Gen_Fact_2.Smooth3.Integrator1.y,
 Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[5]},
{Pollution_Dynamics1.P_PPoll_Gen_Fact_2.Smooth3.Integrator1.y,
 Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[6]},
{Pollution_Dynamics1.P_PPoll_Gen_Fact_2.Smooth3.Integrator1.y,
 Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[7]},
{Pollution_Dynamics1.Pers_Pollution.Integrator1.y,
 Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[1]},
{Pollution_Dynamics1.Pers_Pollution.Integrator1.y,
 Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[2]},
{Pollution_Dynamics1.Pers_Pollution.Integrator1.y,
 Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[3]},
{Pollution_Dynamics1.Pers_Pollution.Integrator1.y,
 Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[4]},
{Pollution_Dynamics1.Pers_Pollution.Integrator1.y,
 Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[5]},
{Pollution_Dynamics1.Pers_Pollution.Integrator1.y,
 Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[6]},
{Pollution_Dynamics1.Pers_Pollution.Integrator1.y,
 Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[7]},
{Population_Dynamics1.Pop_0_14.Integrator1.y,
 Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[1]},
{Population_Dynamics1.Pop_0_14.Integrator1.y,
 Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[2]},
{Population_Dynamics1.Pop_0_14.Integrator1.y,
 Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[3]},
{Population_Dynamics1.Pop_0_14.Integrator1.y,
 Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[4]},
{Population_Dynamics1.Pop_0_14.Integrator1.y,
 Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[5]},
{Population_Dynamics1.Pop_0_14.Integrator1.y,
 Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[6]},
{Population_Dynamics1.Pop_0_14.Integrator1.y,
 Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[7]},
{Population_Dynamics1.Pop_15_44.Integrator1.y,
 Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[1]},
{Population_Dynamics1.Pop_15_44.Integrator1.y,
 Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[2]},
{Population_Dynamics1.Pop_15_44.Integrator1.y,
 Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[3]},
{Population_Dynamics1.Pop_15_44.Integrator1.y,
 Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[4]},
{Population_Dynamics1.Pop_15_44.Integrator1.y,

```



```

Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[5]},
{Population_Dynamics1.Pop_15_44.Integrator1.y,
Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[6]},
{Population_Dynamics1.Pop_15_44.Integrator1.y,
Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[7]},
{Population_Dynamics1.Pop_45_64.Integrator1.y,
Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[1]},
{Population_Dynamics1.Pop_45_64.Integrator1.y,
Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[2]},
{Population_Dynamics1.Pop_45_64.Integrator1.y,
Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[3]},
{Population_Dynamics1.Pop_45_64.Integrator1.y,
Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[4]},
{Population_Dynamics1.Pop_45_64.Integrator1.y,
Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[5]},
{Population_Dynamics1.Pop_45_64.Integrator1.y,
Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[6]},
{Population_Dynamics1.Pop_45_64.Integrator1.y,
Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[7]},
{Population_Dynamics1.Pop_65plus.Integrator1.y,
Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[1]},
{Population_Dynamics1.Pop_65plus.Integrator1.y,
Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[2]},
{Population_Dynamics1.Pop_65plus.Integrator1.y,
Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[3]},
{Population_Dynamics1.Pop_65plus.Integrator1.y,
Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[4]},
{Population_Dynamics1.Pop_65plus.Integrator1.y,
Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[5]},
{Population_Dynamics1.Pop_65plus.Integrator1.y,
Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[6]},
{Population_Dynamics1.Pop_65plus.Integrator1.y,
Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[7]},
{Service_Sector_Investment1.Service_Capital.Integrator1.y,
Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[1]},
{Service_Sector_Investment1.Service_Capital.Integrator1.y,
Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[2]},
{Service_Sector_Investment1.Service_Capital.Integrator1.y,
Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[3]},
{Service_Sector_Investment1.Service_Capital.Integrator1.y,
Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[4]},
{Service_Sector_Investment1.Service_Capital.Integrator1.y,
Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[5]},
{Service_Sector_Investment1.Service_Capital.Integrator1.y,
Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[6]},
{Service_Sector_Investment1.Service_Capital.Integrator1.y,
Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[7]}

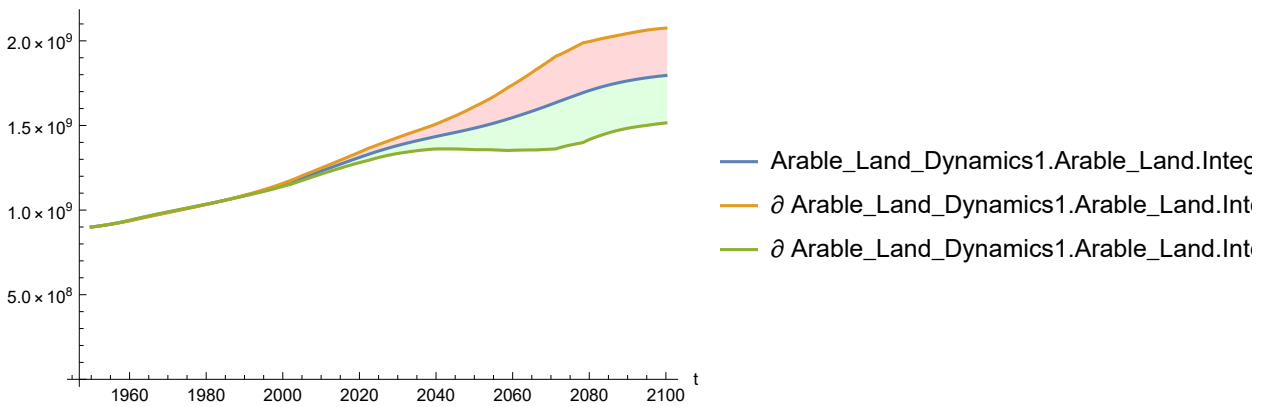
```

Programming note: in Mathematica, the following list of **SystemModelPlot** instructions could be replaced by a loop or iteration construct that cycles over **simsensdata**. The resulting source code would be elegant, but upon execution it turns out to have dynamic updating issues that the Platform described above does not handle well.

Plot the sensitivity of `Arable_Land_Dynamics1.Arable_Land.Integrator1.y` to `Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals`.

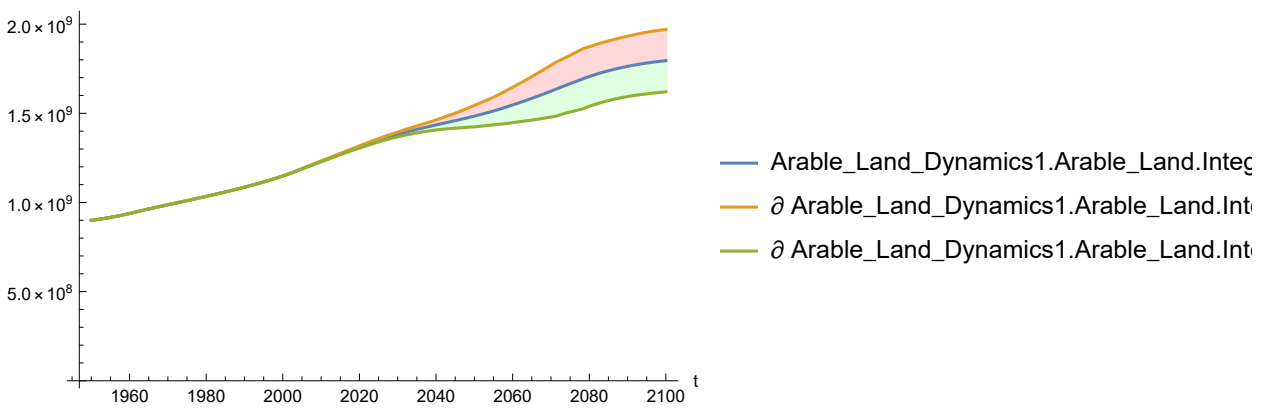
```
In[13]:= SystemModelPlot[simsensdata, {"Arable_Land_Dynamics1.Arable_Land.Integrator1.y",
  "Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[1]", percentvar}]
```

Out[13]=



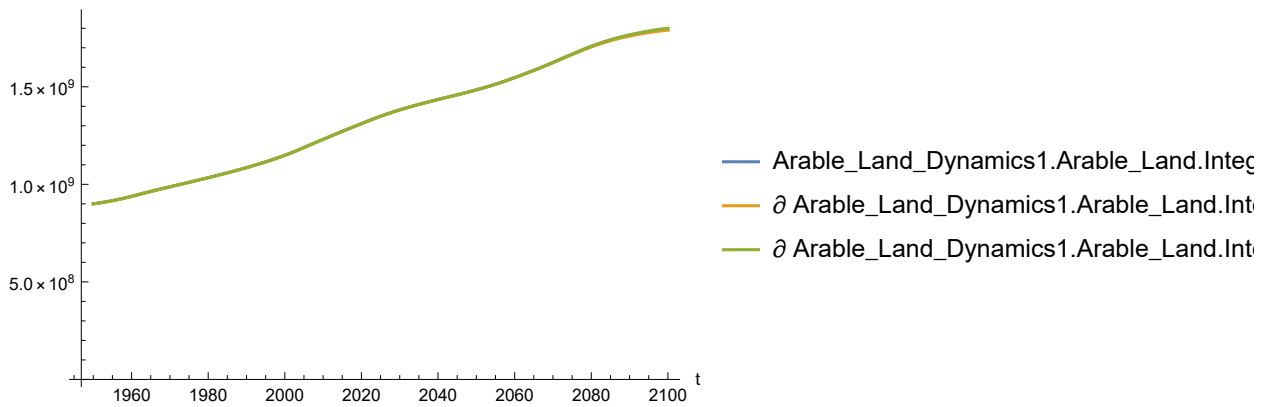
```
In[14]:= SystemModelPlot[simsensdata, {"Arable_Land_Dynamics1.Arable_Land.Integrator1.y",
  "Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[2]", percentvar}]
```

Out[14]=



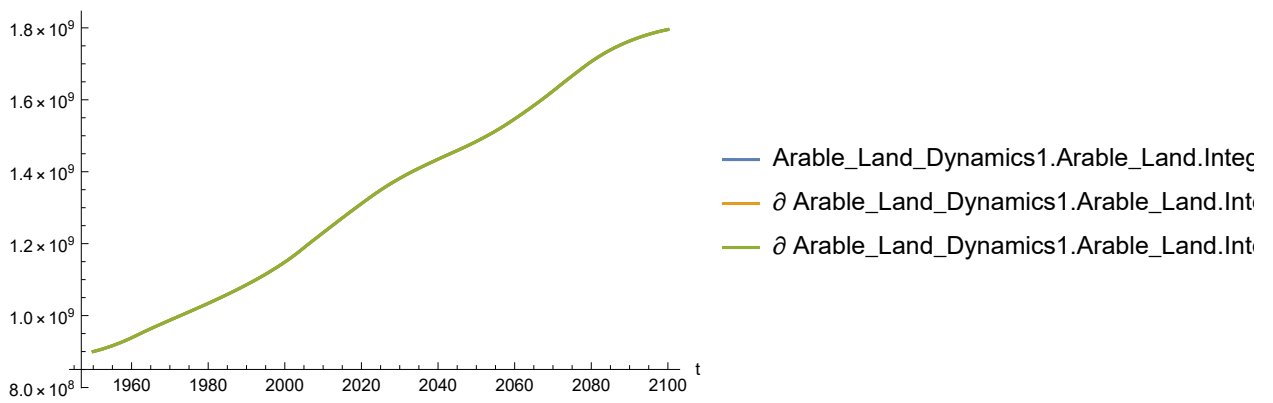
```
In[15]:= SystemModelPlot[simsensdata, {"Arable_Land_Dynamics1.Arable_Land.Integrator1.y",
"Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[3]", percentvar}]
```

Out[15]=



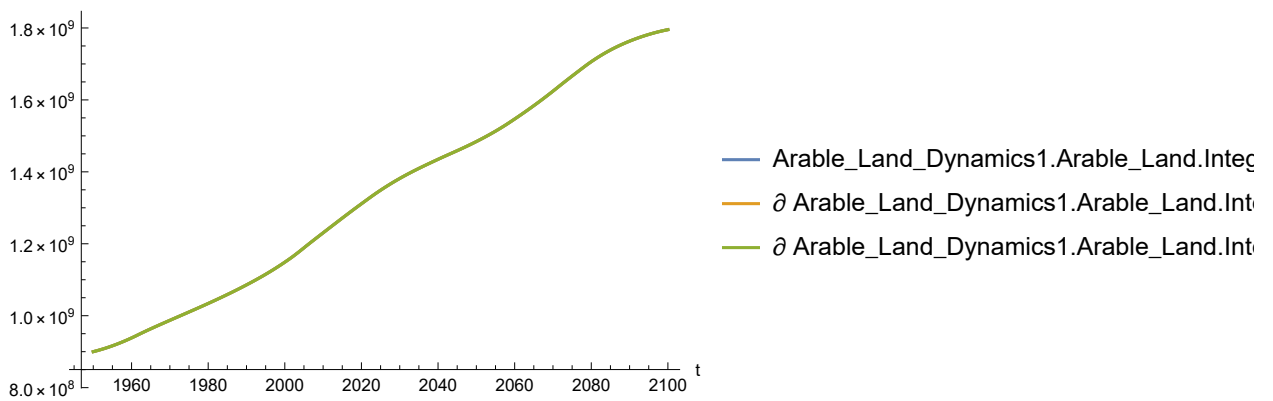
```
In[16]:= SystemModelPlot[simsensdata, {"Arable_Land_Dynamics1.Arable_Land.Integrator1.y",
"Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[4]", percentvar}]
```

Out[16]=



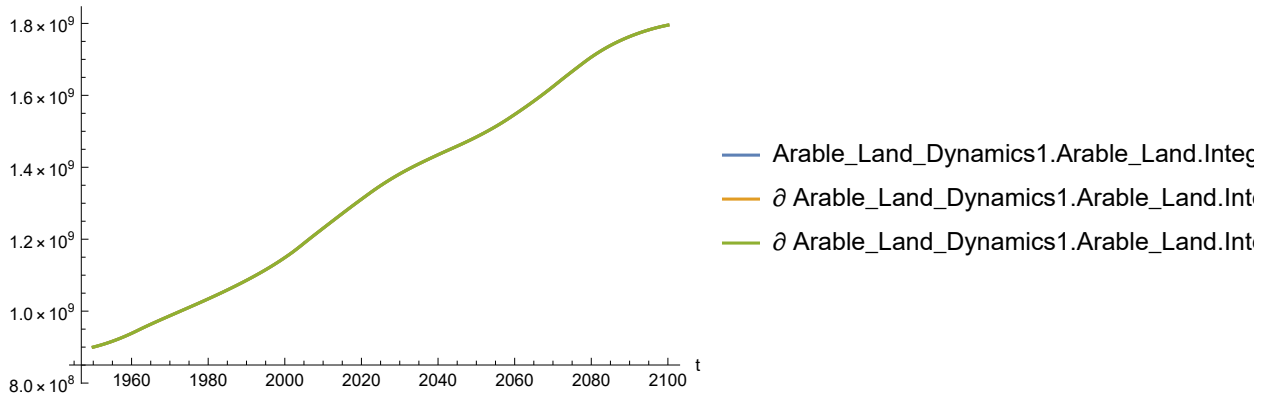
```
In[17]:= SystemModelPlot[simsensdata, {"Arable_Land_Dynamics1.Arable_Land.Integrator1.y",
"Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[5]", percentvar}]
```

Out[17]=



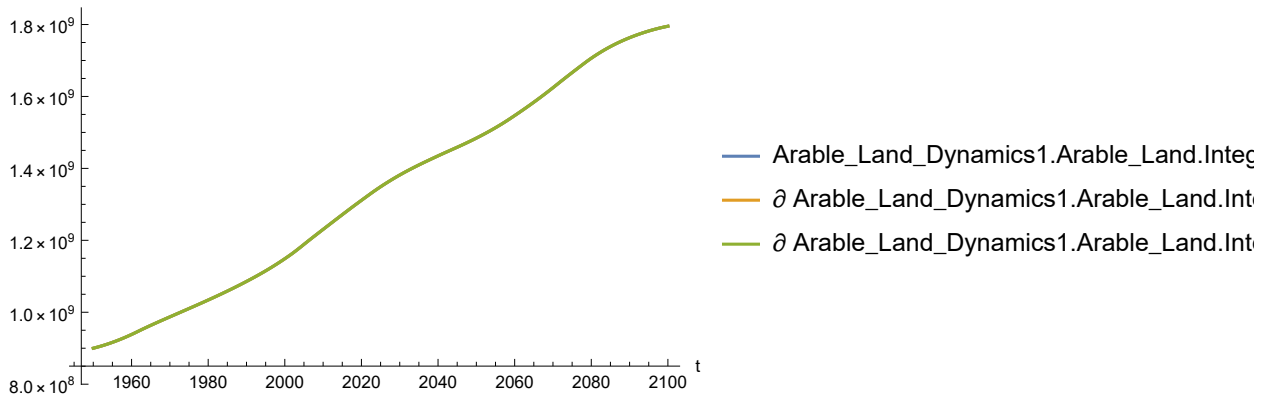
```
In[18]:= SystemModelPlot[simsensdata, {"Arable_Land_Dynamics1.Arable_Land.Integrator1.y",
"Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[6]", percentvar}]
```

Out[18]=



```
In[19]:= SystemModelPlot[simsensdata, {"Arable_Land_Dynamics1.Arable_Land.Integrator1.y",
"Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[7]", percentvar}]
```

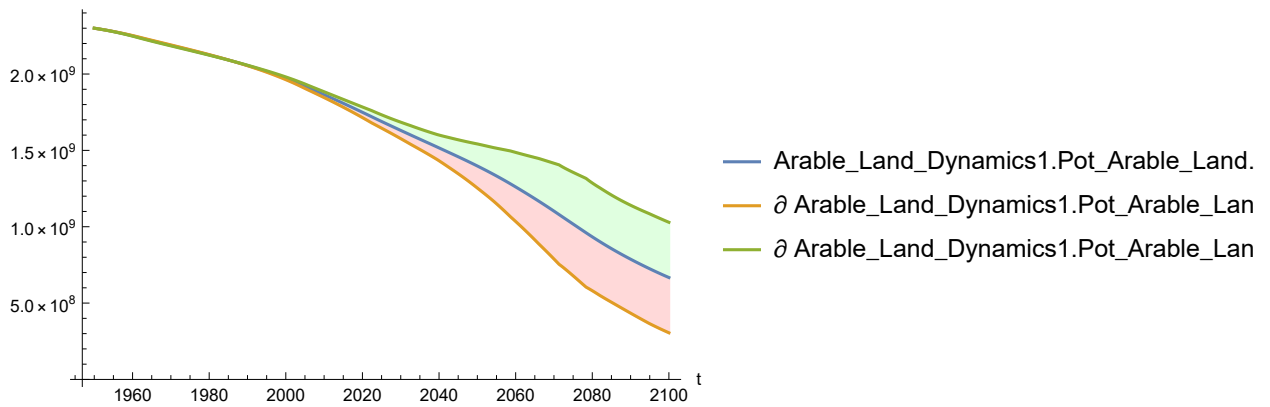
Out[19]=



Plot the sensitivity of Arable_Land_Dynamics1.Pot_Arable_Land.Integrator1.y to Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals.

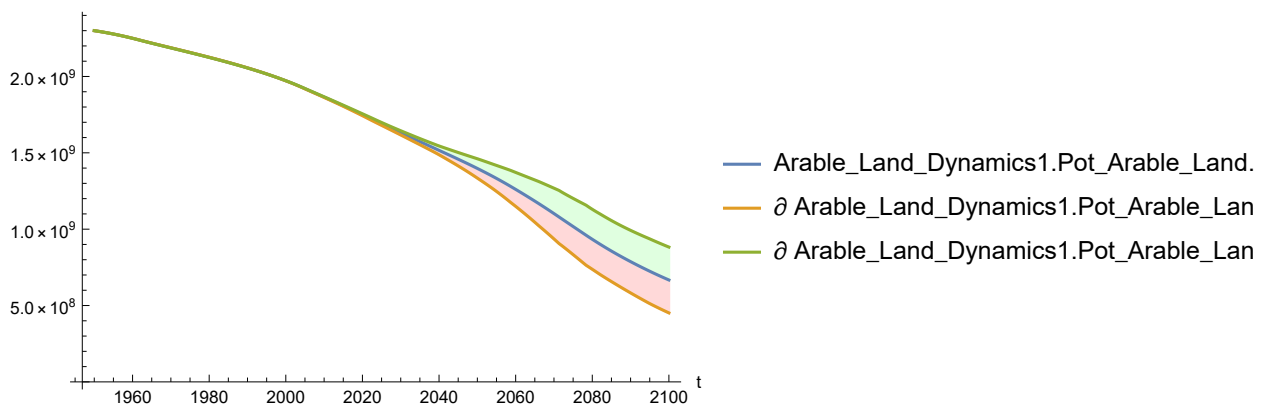
```
In[20]:= SystemModelPlot[simsensdata, {"Arable_Land_Dynamics1.Pot_Arable_Land.Integrator1.y",
"Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[1]", percentvar}]
```

Out[20]=



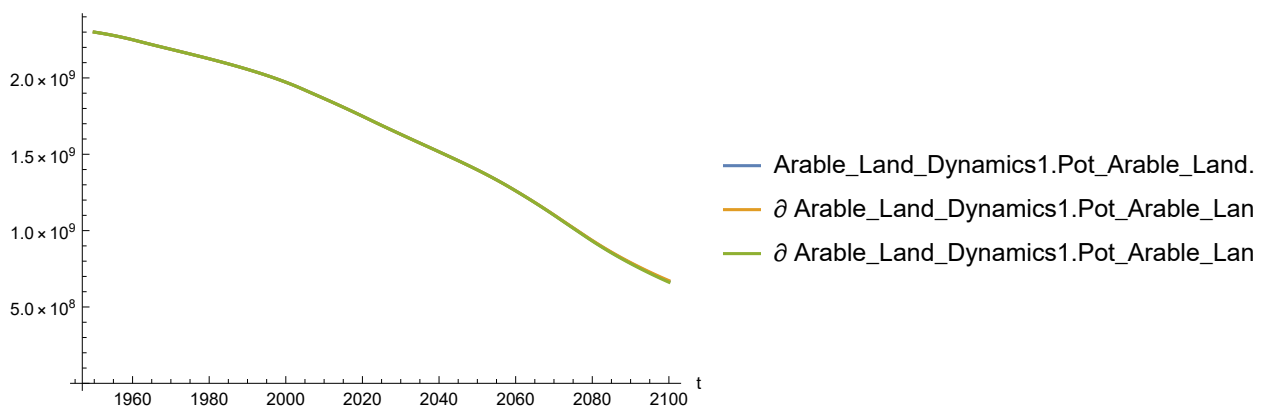
```
In[21]:= SystemModelPlot[simsensdata, {"Arable_Land_Dynamics1.Pot_Arable_Land.Integrator1.y",
"Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[2]", percentvar}]
```

Out[21]=



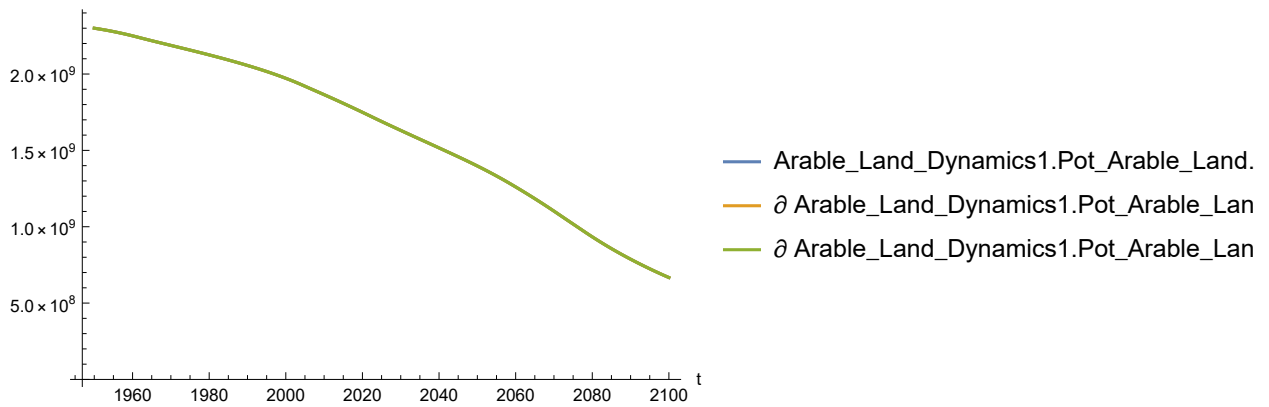
```
In[22]:= SystemModelPlot[simsensdata, {"Arable_Land_Dynamics1.Pot_Arable_Land.Integrator1.y",
"Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[3]", percentvar}]
```

Out[22]=



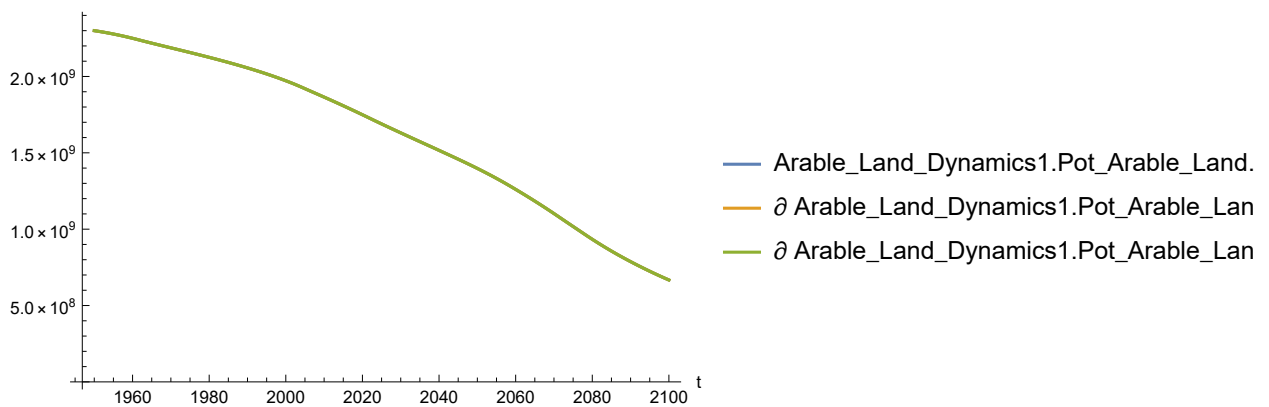
```
In[23]:= SystemModelPlot[simsensdata, {"Arable_Land_Dynamics1.Pot_Arable_Land.Integrator1.y",
"Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[4]", percentvar}]
```

Out[23]=



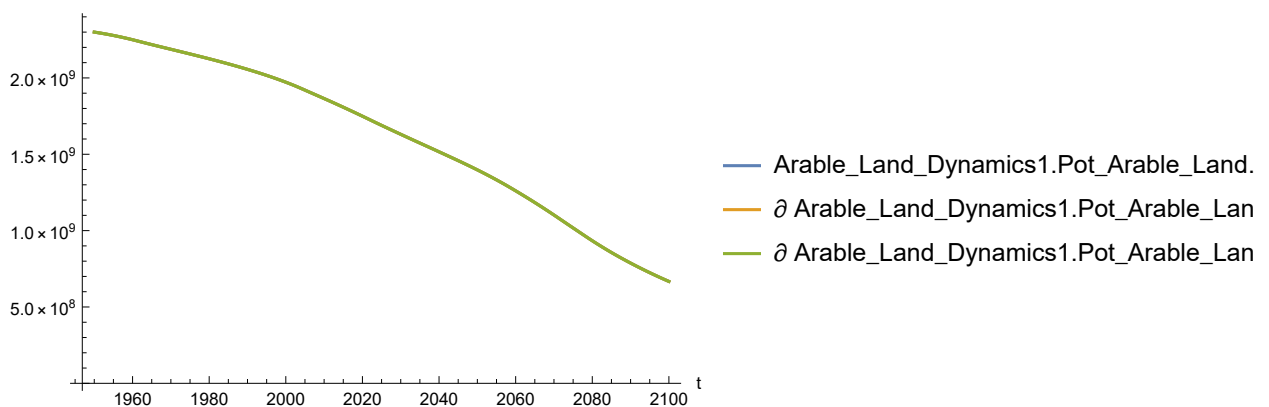
```
In[24]:= SystemModelPlot[simsensdata, {"Arable_Land_Dynamics1.Pot_Arable_Land.Integrator1.y",
"Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[5]", percentvar}]
```

Out[24]=



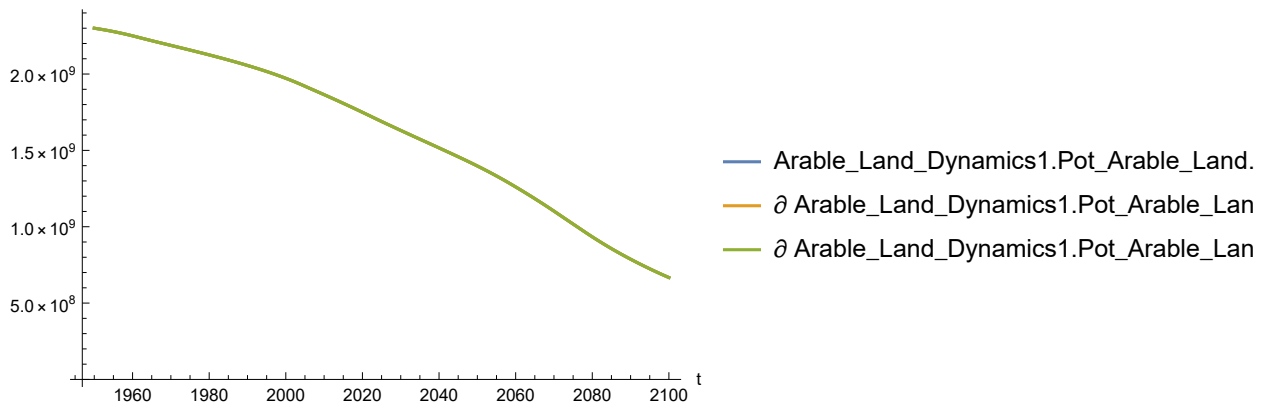
```
In[25]:= SystemModelPlot[simsensdata, {"Arable_Land_Dynamics1.Pot_Arable_Land.Integrator1.y",
"Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[6]", percentvar}]
```

Out[25]=



```
In[26]:= SystemModelPlot[simsensdata, {"Arable_Land_Dynamics1.Pot_Arable_Land.Integrator1.y",
"Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[7]", percentvar}]
```

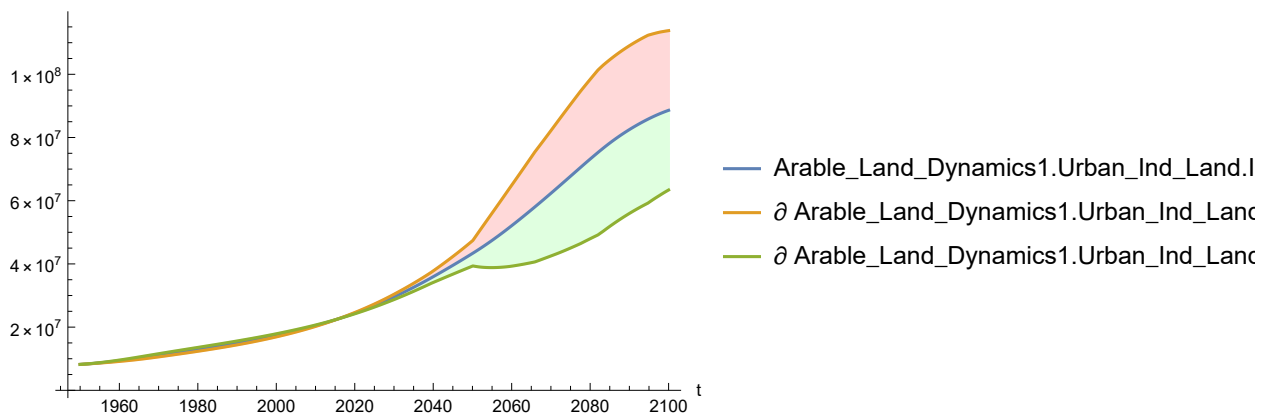
Out[26]=



Plot the sensitivity of Arable_Land_Dynamics1.Urban_Ind_Land.Integrator1.y to Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals.

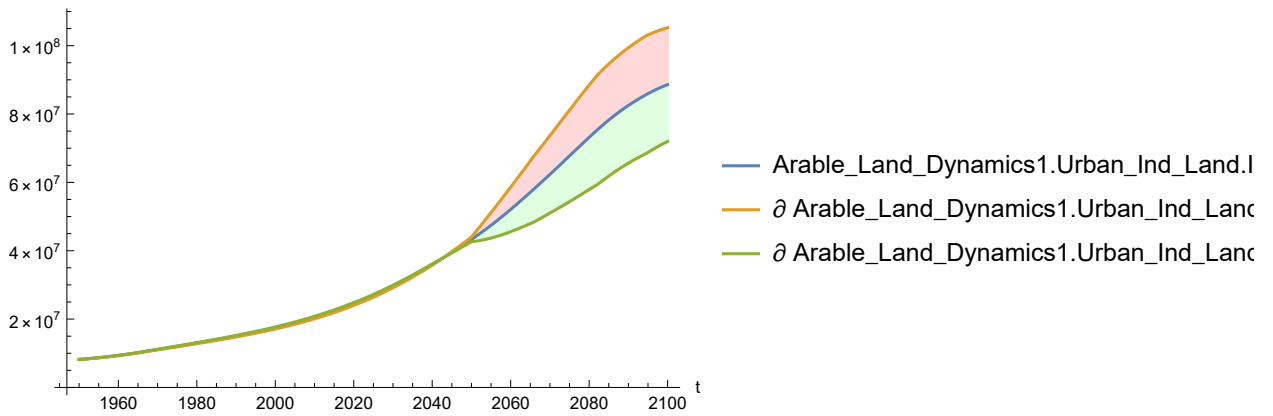
```
In[27]:= SystemModelPlot[simsensdata, {"Arable_Land_Dynamics1.Urban_Ind_Land.Integrator1.y",
"Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[1]", percentvar}]
```

Out[27]=



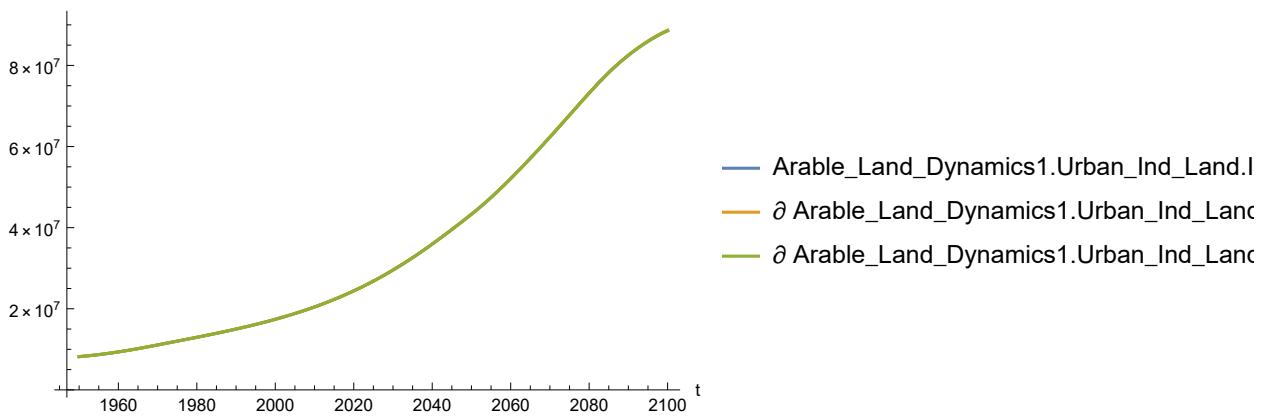
```
In[28]:= SystemModelPlot[simsensdata, {"Arable_Land_Dynamics1.Urban_Ind_Land.Integrator1.y",
"Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[2]", percentvar}]
```

Out[28]=



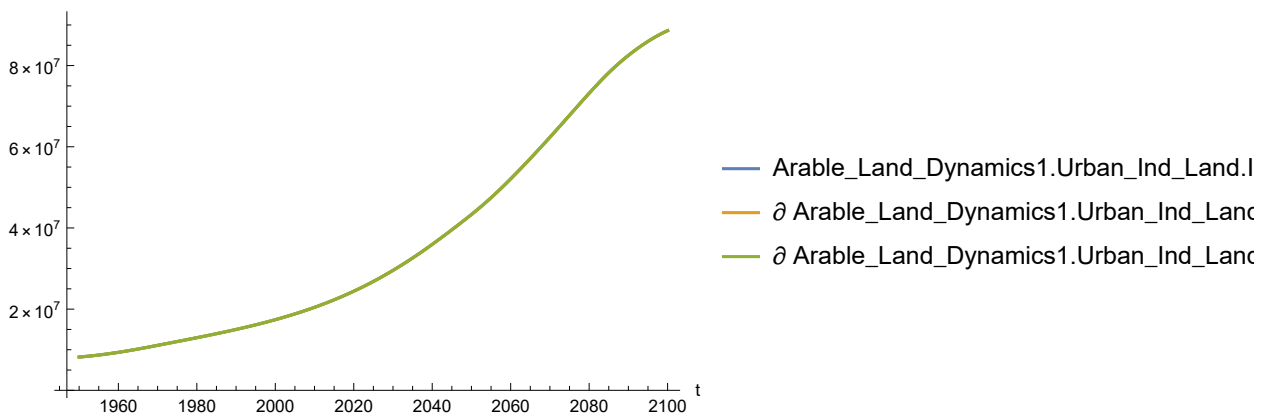
```
In[29]:= SystemModelPlot[simsensdata, {"Arable_Land_Dynamics1.Urban_Ind_Land.Integrator1.y",
"Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[3]", percentvar}]
```

Out[29]=



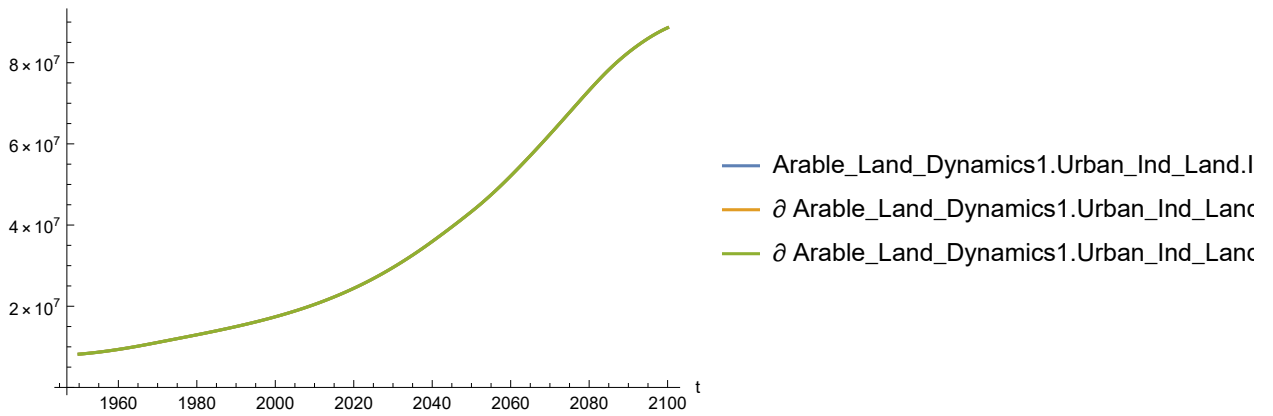
```
In[30]:= SystemModelPlot[simsensdata, {"Arable_Land_Dynamics1.Urban_Ind_Land.Integrator1.y",
"Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[4]", percentvar}]
```

Out[30]=



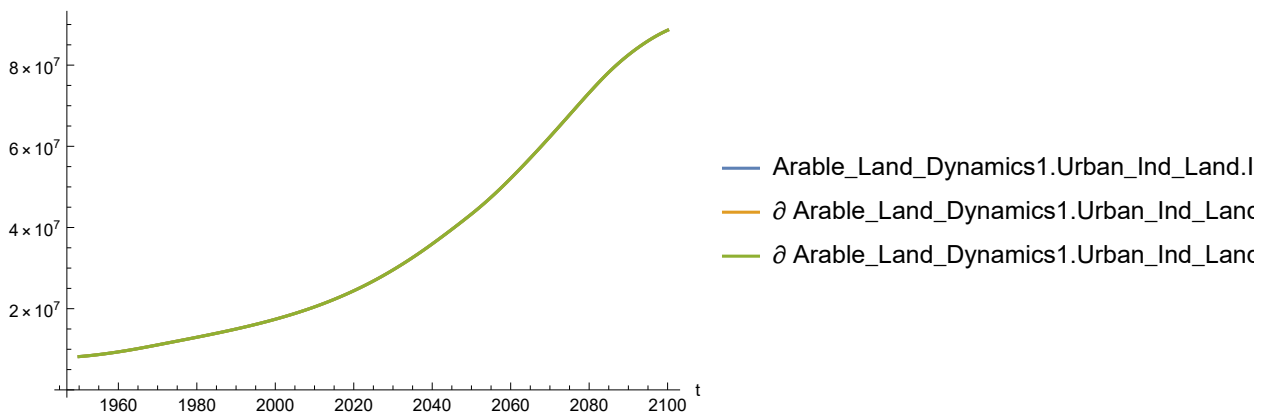

```
In[31]:= SystemModelPlot[simsensdata, {"Arable_Land_Dynamics1.Urban_Ind_Land.Integrator1.y",
"Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[5]", percentvar}]
```

Out[31]=



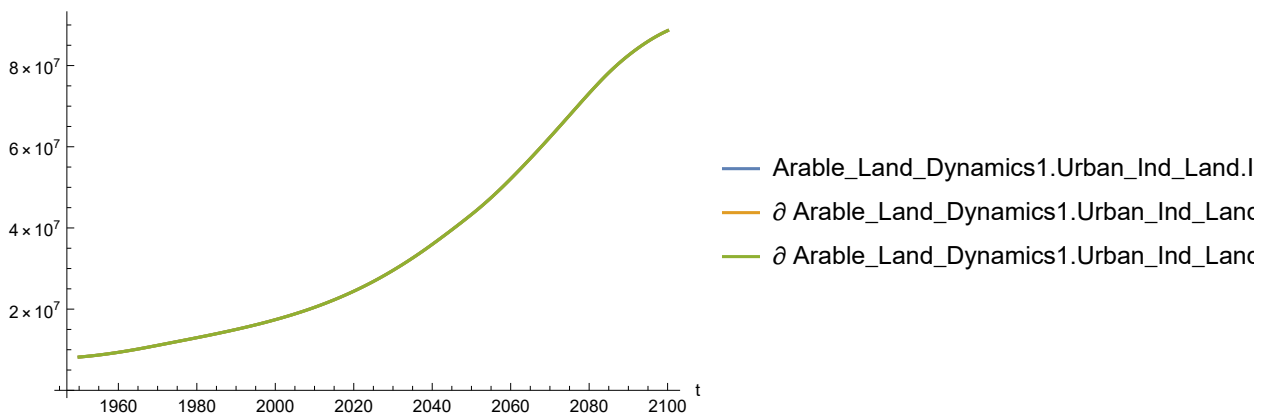
```
In[32]:= SystemModelPlot[simsensdata, {"Arable_Land_Dynamics1.Urban_Ind_Land.Integrator1.y",
"Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[6]", percentvar}]
```

Out[32]=



```
In[33]:= SystemModelPlot[simsensdata, {"Arable_Land_Dynamics1.Urban_Ind_Land.Integrator1.y",
"Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[7]", percentvar}]
```

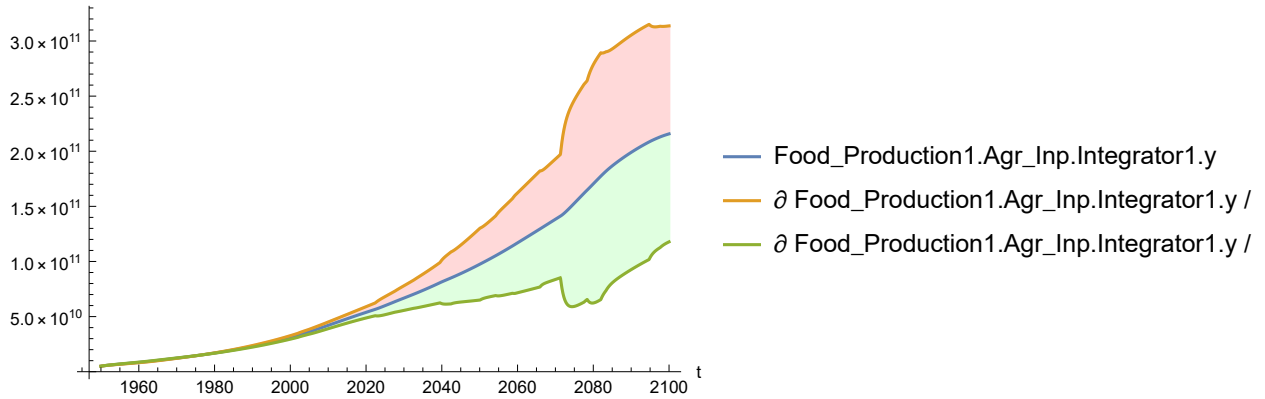
Out[33]=



Plot sensitivity of Food_Production.Agr_Inp.Integrator1.y to **Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals**.

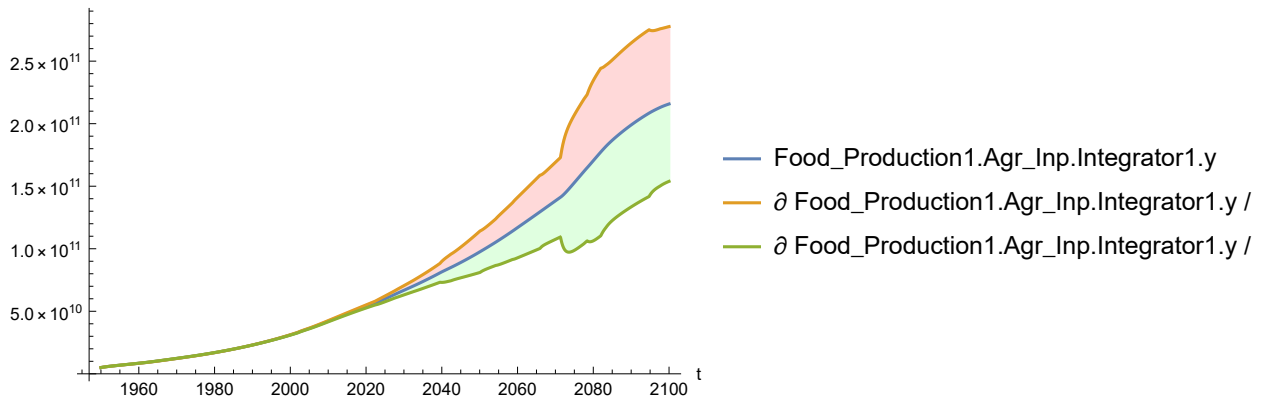
```
In[34]:= SystemModelPlot[simsensdata, {"Food_Production1.Agr_Inp.Integrator1.y",
  "Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[1]", percentvar}]
```

Out[34]=



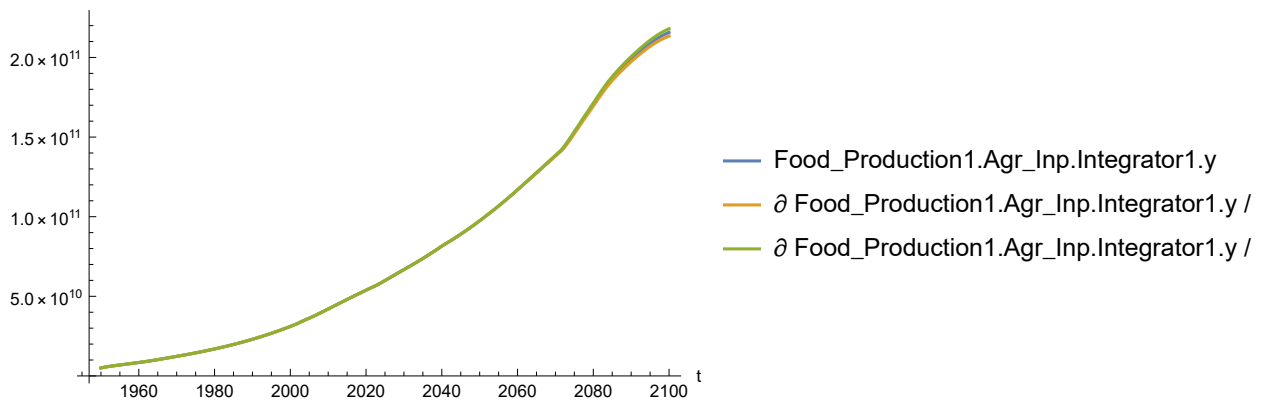
```
In[35]:= SystemModelPlot[simsensdata, {"Food_Production1.Agr_Inp.Integrator1.y",
  "Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[2]", percentvar}]
```

Out[35]=



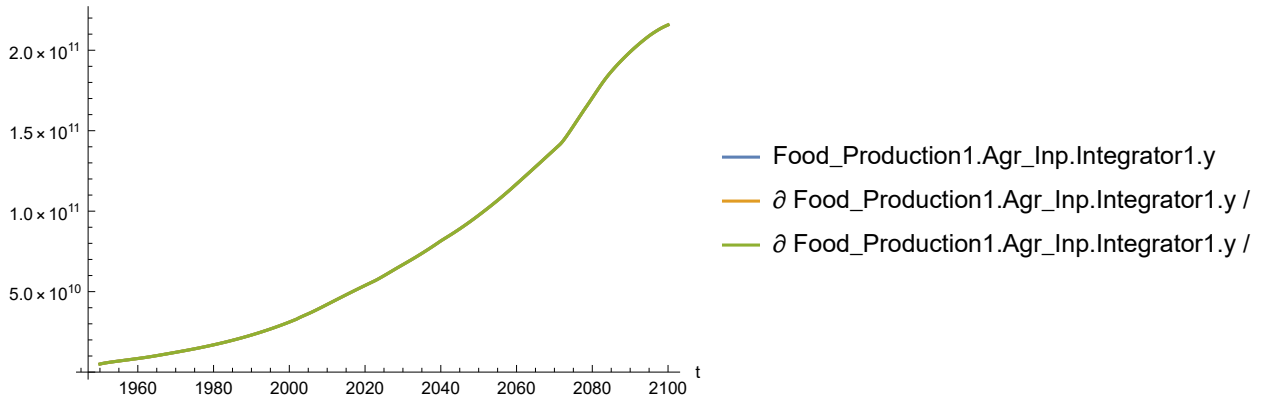
```
In[36]:= SystemModelPlot[simsensdata, {"Food_Production1.Agr_Inp.Integrator1.y",
  "Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[3]", percentvar}]
```

Out[36]=



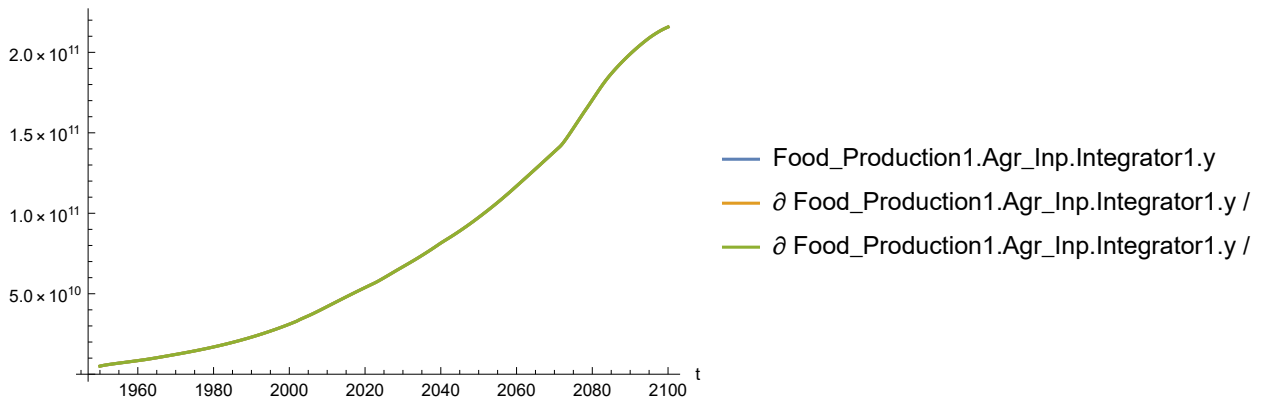
```
In[37]:= SystemModelPlot[simsensdata, {"Food_Production1.Agr_Inp.Integrator1.y",
"Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[4]", percentvar}]
```

Out[37]=



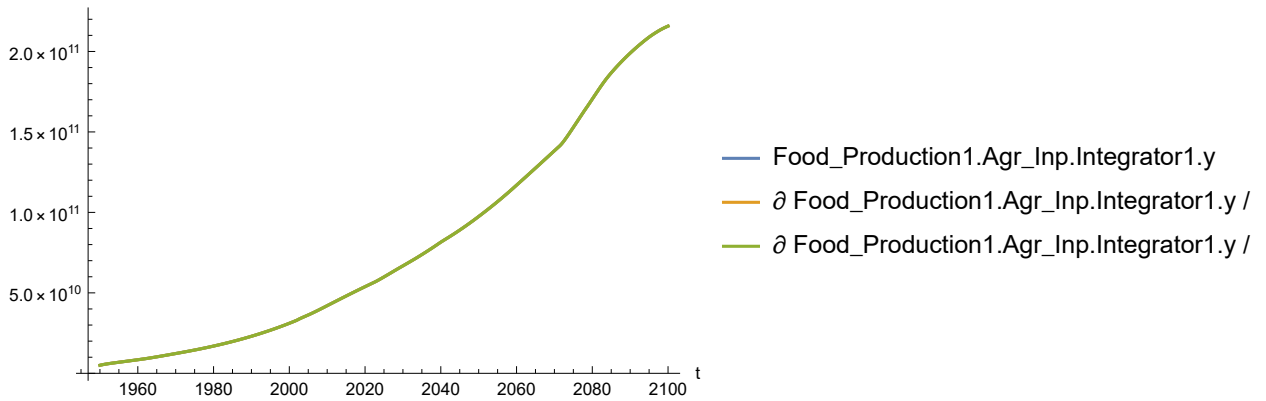
```
In[38]:= SystemModelPlot[simsensdata, {"Food_Production1.Agr_Inp.Integrator1.y",
"Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[5]", percentvar}]
```

Out[38]=



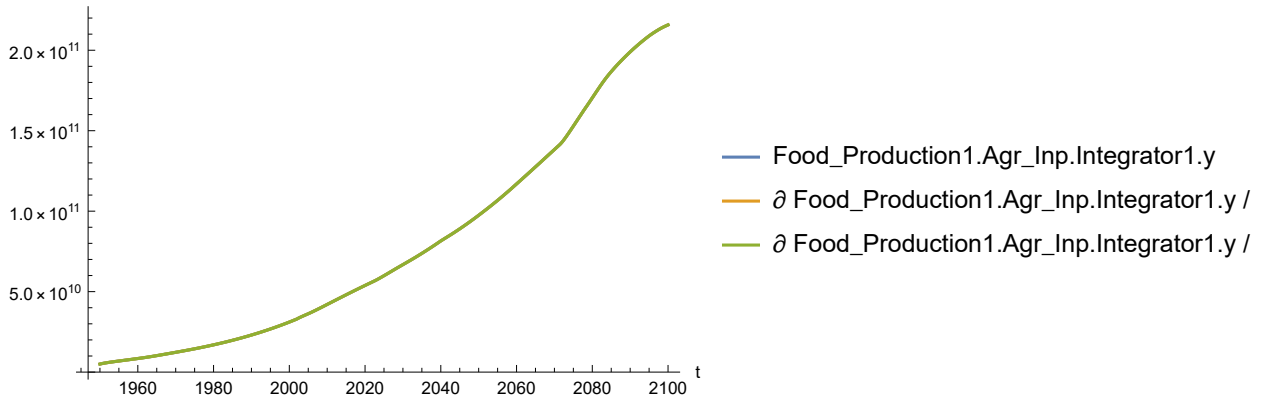
```
In[39]:= SystemModelPlot[simsensdata, {"Food_Production1.Agr_Inp.Integrator1.y",
"Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[6]", percentvar}]
```

Out[39]=



```
In[40]:= SystemModelPlot[simsensdata, {"Food_Production1.Agr_Inp.Integrator1.y",
"Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[7]", percentvar}]
```

Out[40]=

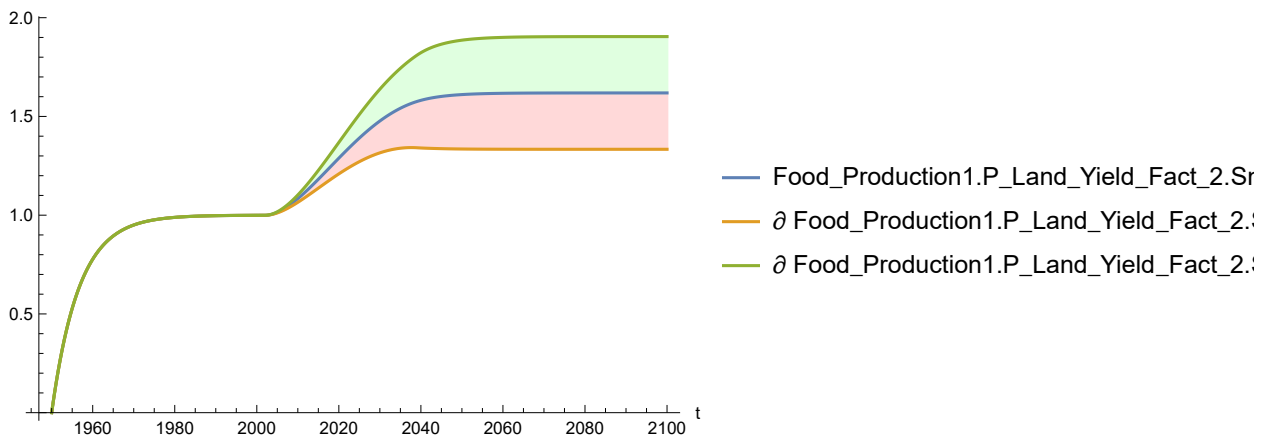


Plot sensitivity of **Food_Production1.P_Land_Yield_Fact2** to **Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals**.

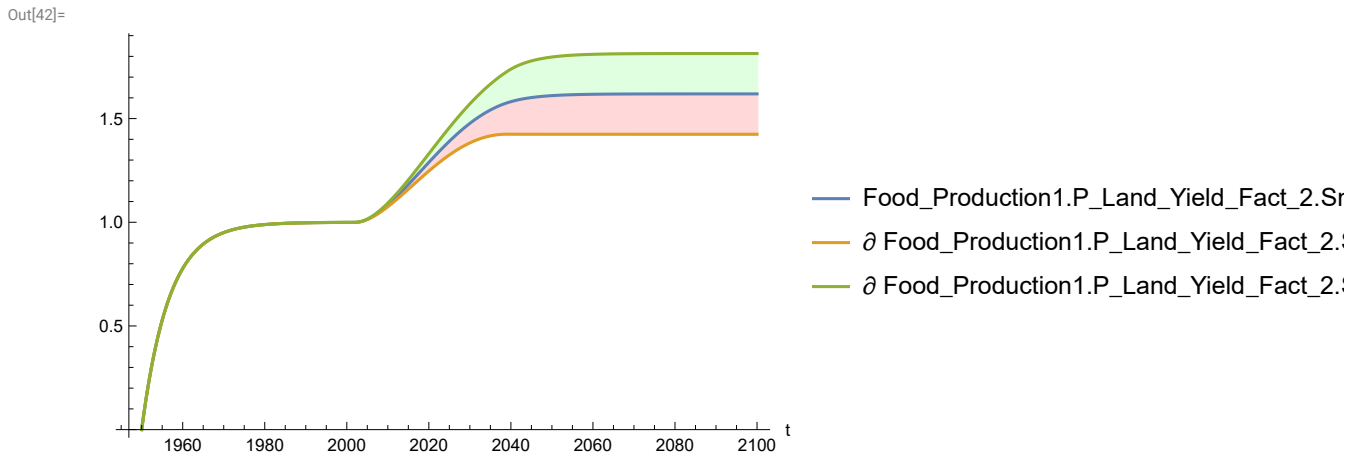
Plot the sensitivity of `Food_Production1.P_Land_Yield_Fact_2.SmoothN.Integrator1.y`, where $N = 1, 2, 3$, to variation in `Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals`.

```
In[41]:= SystemModelPlot[simsensdata, {"Food_Production1.P_Land_Yield_Fact_2.Smooth1.Integrator1.y",
"Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[1]", percentvar}]
```

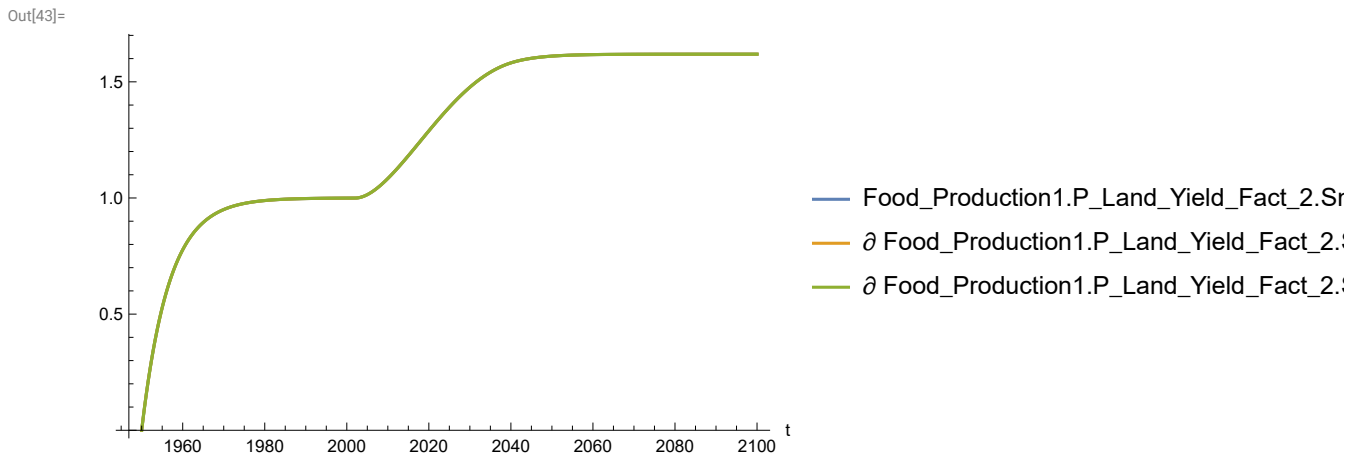
Out[41]=



```
In[42]:= SystemModelPlot[simsensdata,
  {"Food_Production1.P_Land_Yield_Fact_2.Smooth1.Integrator1.y",
   "Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[2]", percentvar}]
```

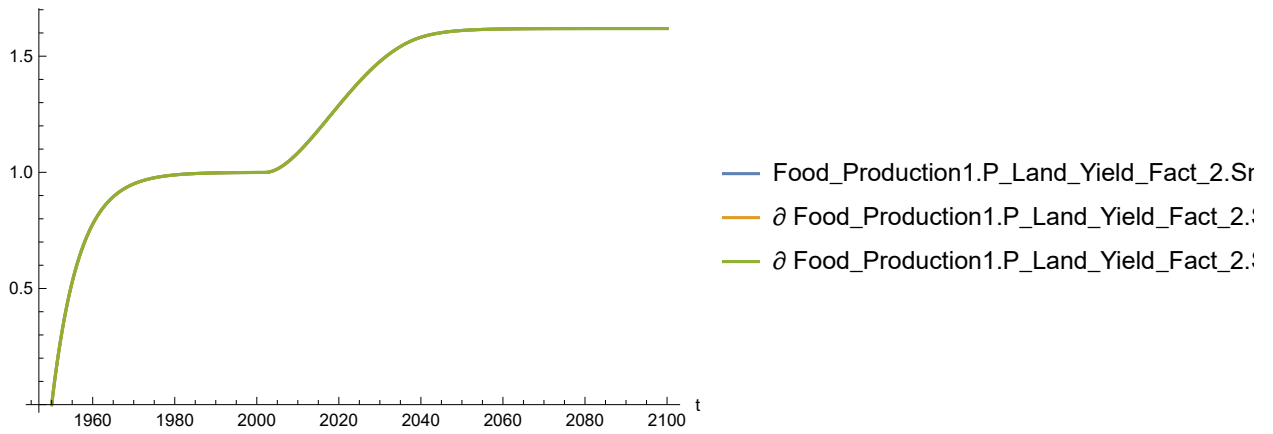


```
In[43]:= SystemModelPlot[simsensdata,
  {"Food_Production1.P_Land_Yield_Fact_2.Smooth1.Integrator1.y",
   "Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[3]", percentvar}]
```



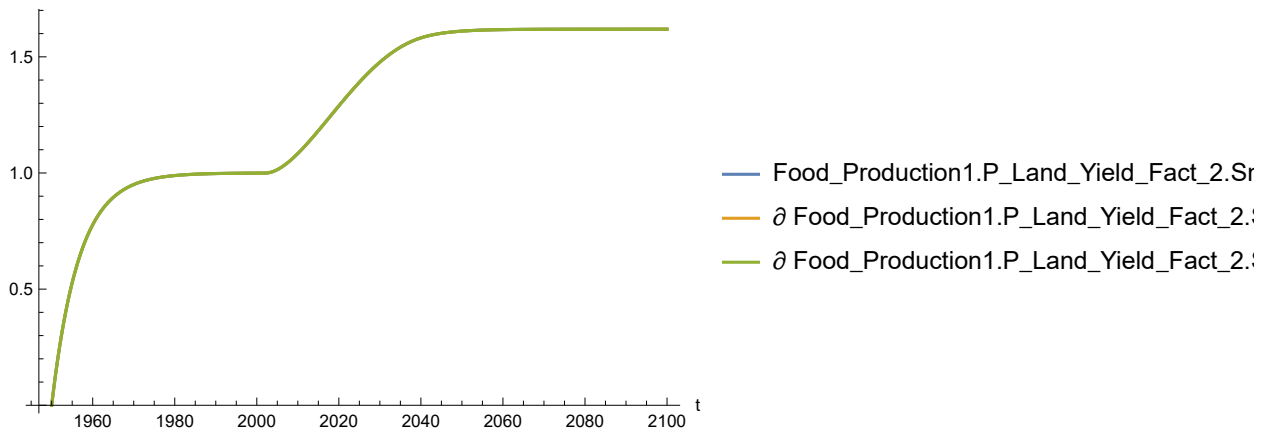
```
In[44]:= SystemModelPlot[simsensdata,
  {"Food_Production1.P_Land_Yield_Fact_2.Smooth1.Integrator1.y",
   "Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[4]", percentvar}]
```

Out[44]=

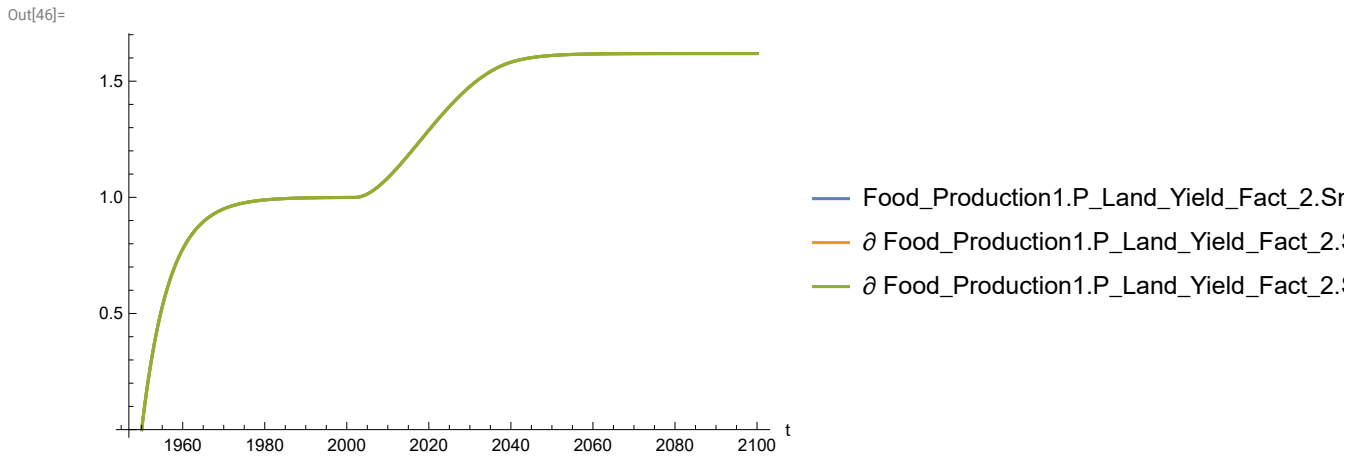


```
In[45]:= SystemModelPlot[simsensdata,
  {"Food_Production1.P_Land_Yield_Fact_2.Smooth1.Integrator1.y",
   "Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[5]", percentvar}]
```

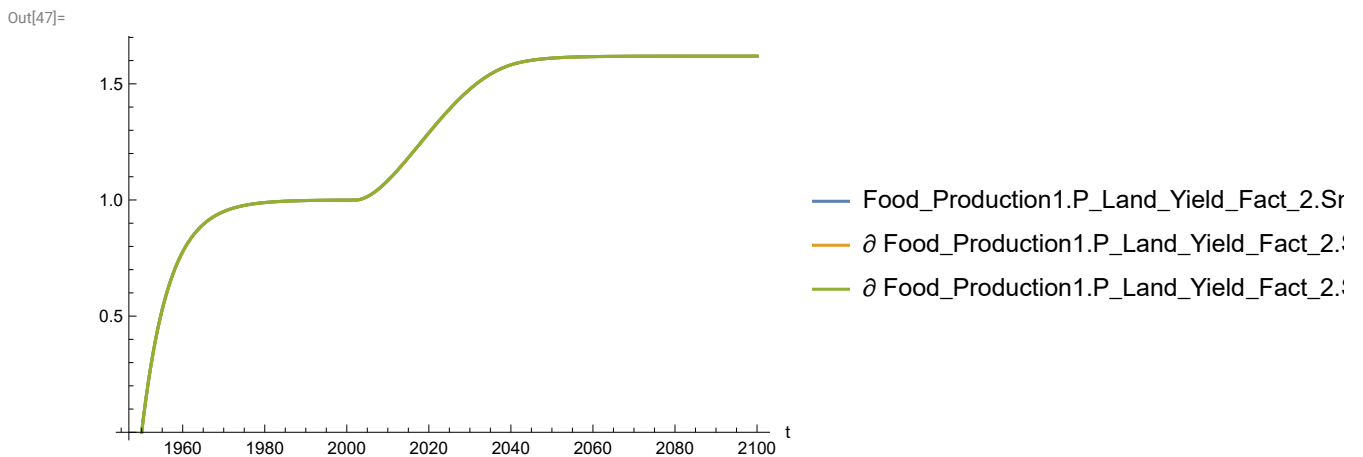
Out[45]=



```
In[46]:= SystemModelPlot[simsensdata,
  {"Food_Production1.P_Land_Yield_Fact_2.Smooth1.Integrator1.y",
   "Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[6]", percentvar}]
```

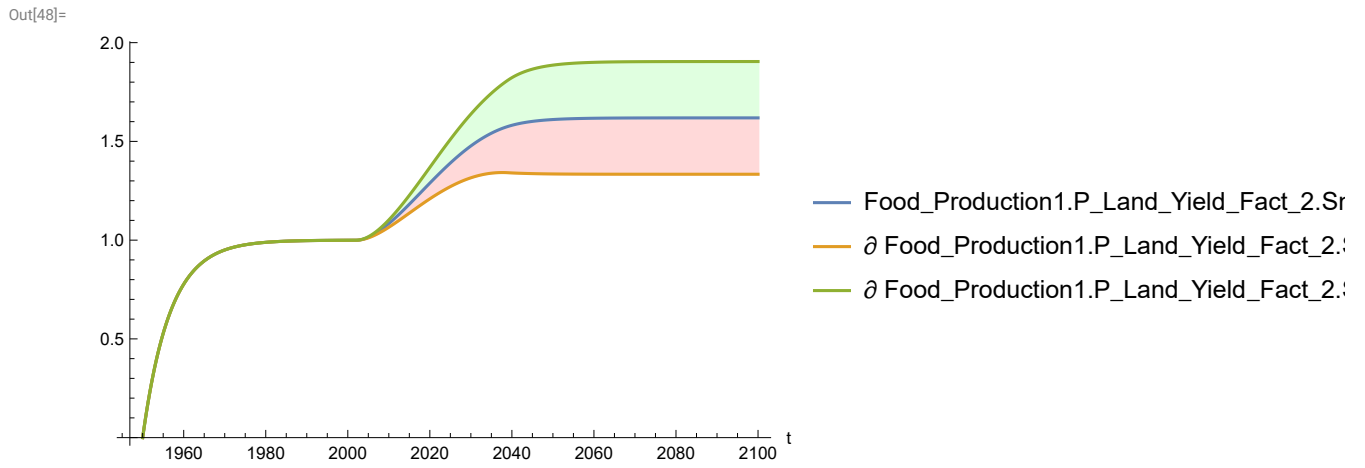


```
In[47]:= SystemModelPlot[simsensdata,
  {"Food_Production1.P_Land_Yield_Fact_2.Smooth1.Integrator1.y",
   "Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[7]", percentvar}]
```

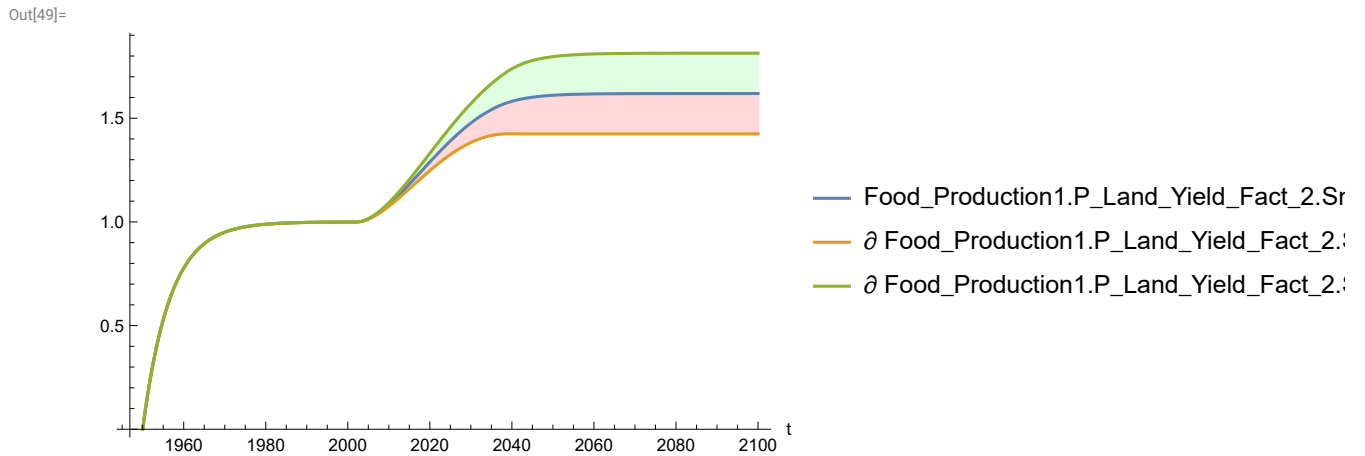


Plot the sensitivity of Food_Production1.P_Land_Yield_Fact_2.Smooth1.Integrator1.y to Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals.

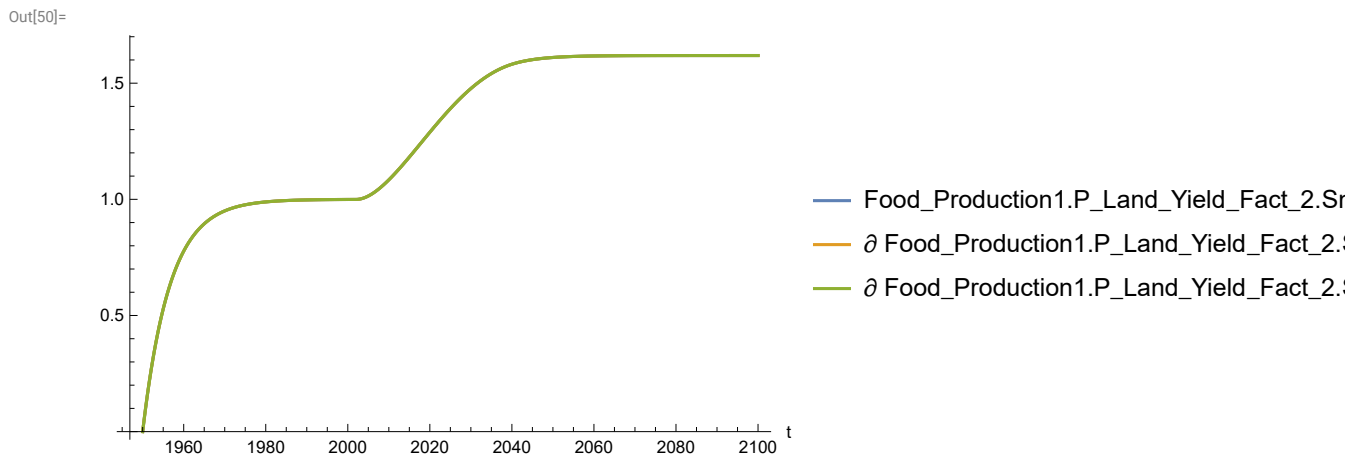
```
In[48]:= SystemModelPlot[simsensdata,
  {"Food_Production1.P_Land_Yield_Fact_2.Smooth1.Integrator1.y",
   "Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[1]", percentvar}]
```



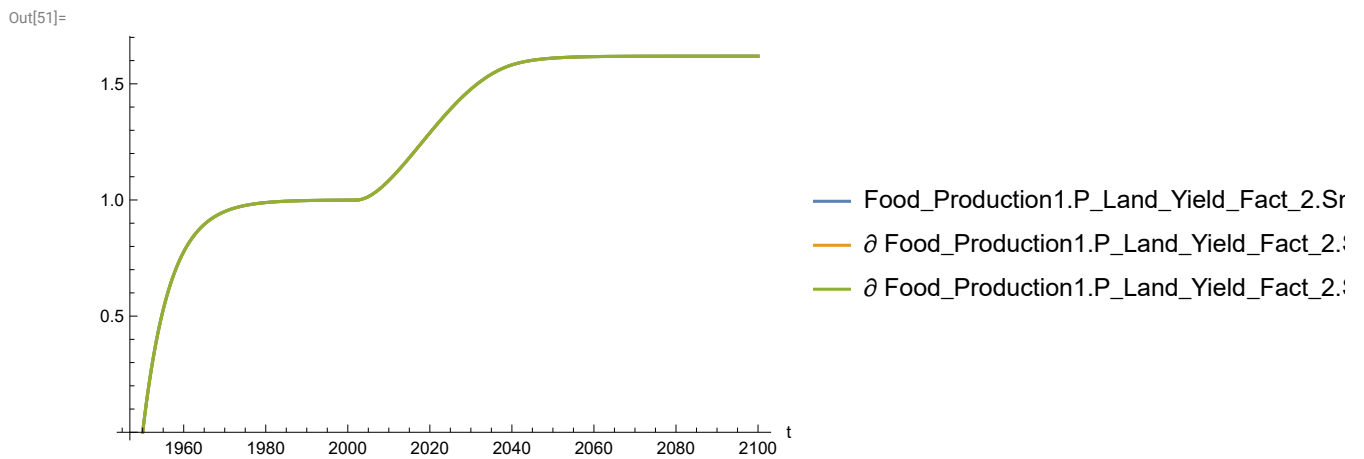
```
In[49]:= SystemModelPlot[simsensdata,
  {"Food_Production1.P_Land_Yield_Fact_2.Smooth1.Integrator1.y",
   "Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[2]", percentvar}]
```



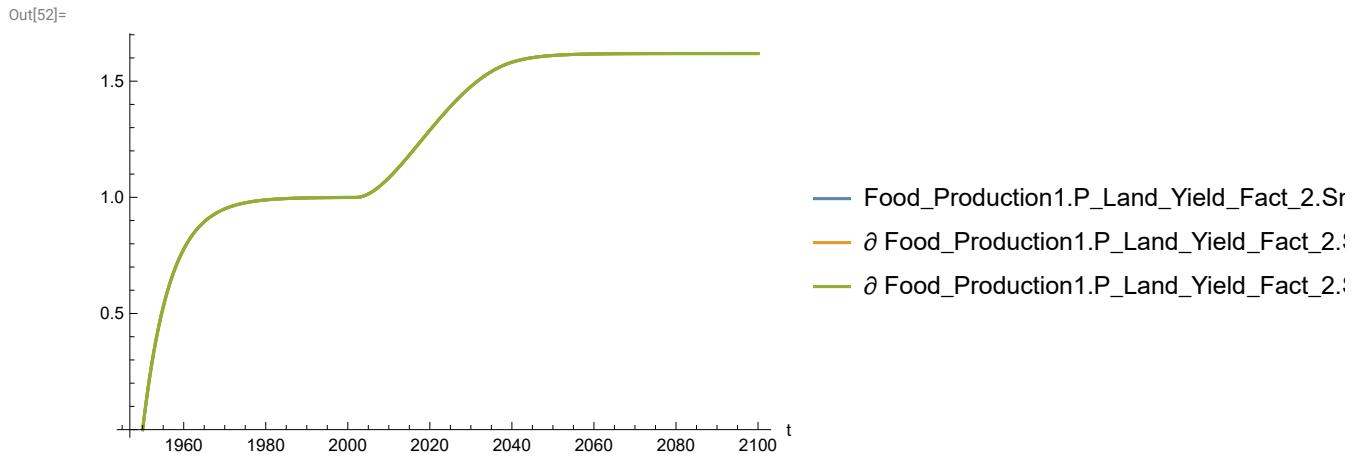

```
In[50]:= SystemModelPlot[simsensdata,
  {"Food_Production1.P_Land_Yield_Fact_2.Smooth1.Integrator1.y",
   "Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[3]", percentvar}]
```



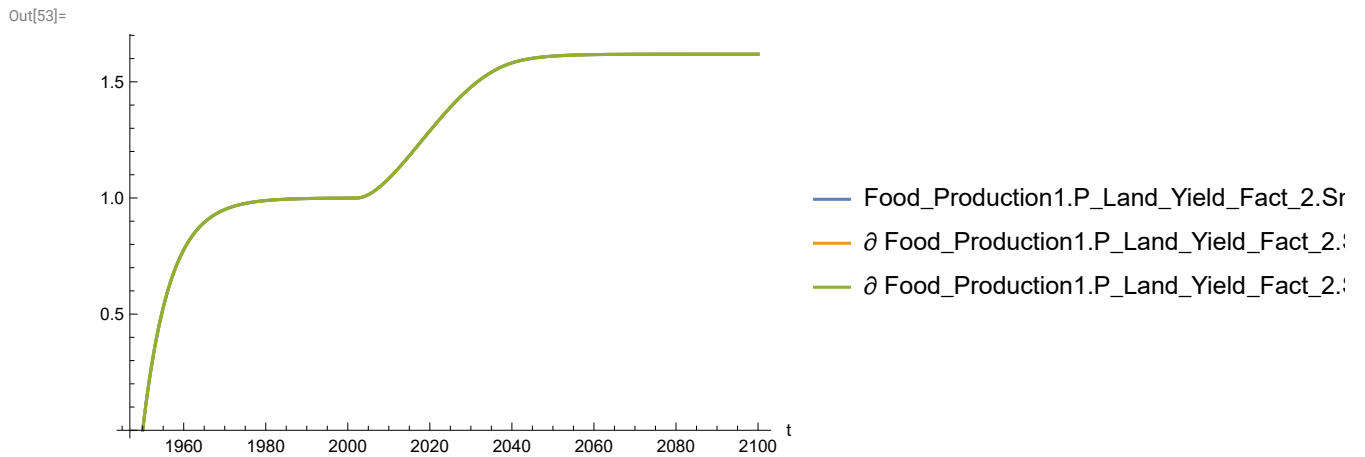
```
In[51]:= SystemModelPlot[simsensdata,
  {"Food_Production1.P_Land_Yield_Fact_2.Smooth1.Integrator1.y",
   "Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[4]", percentvar}]
```



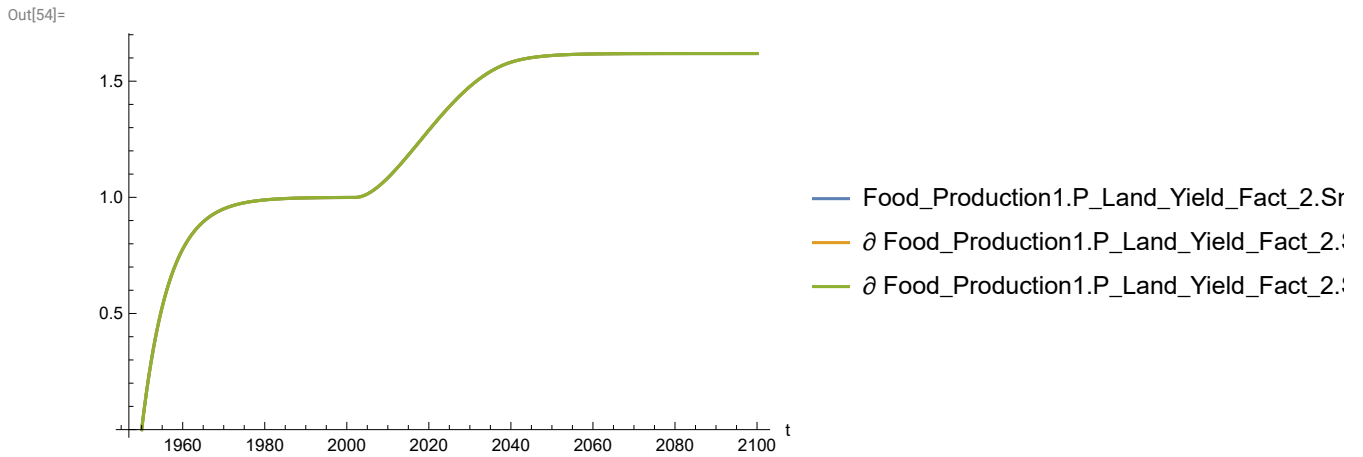
```
In[52]:= SystemModelPlot[simsensdata,
  {"Food_Production1.P_Land_Yield_Fact_2.Smooth1.Integrator1.y",
   "Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[5]", percentvar}]
```



```
In[53]:= SystemModelPlot[simsensdata,
  {"Food_Production1.P_Land_Yield_Fact_2.Smooth1.Integrator1.y",
   "Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[6]", percentvar}]
```

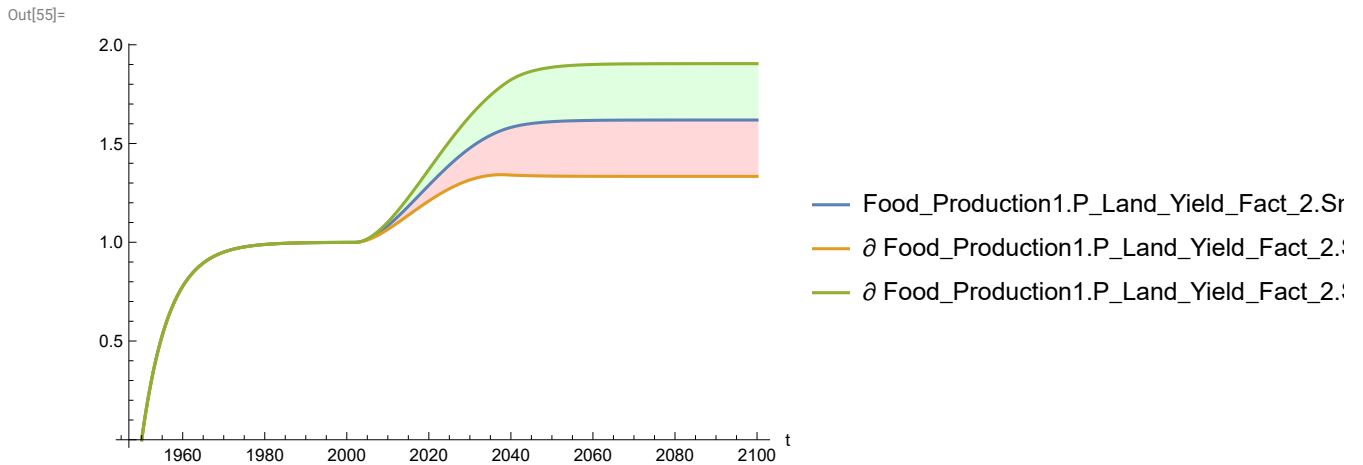


```
In[54]:= SystemModelPlot[simsensdata,
  {"Food_Production1.P_Land_Yield_Fact_2.Smooth1.Integrator1.y",
   "Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[7]", percentvar}]
```



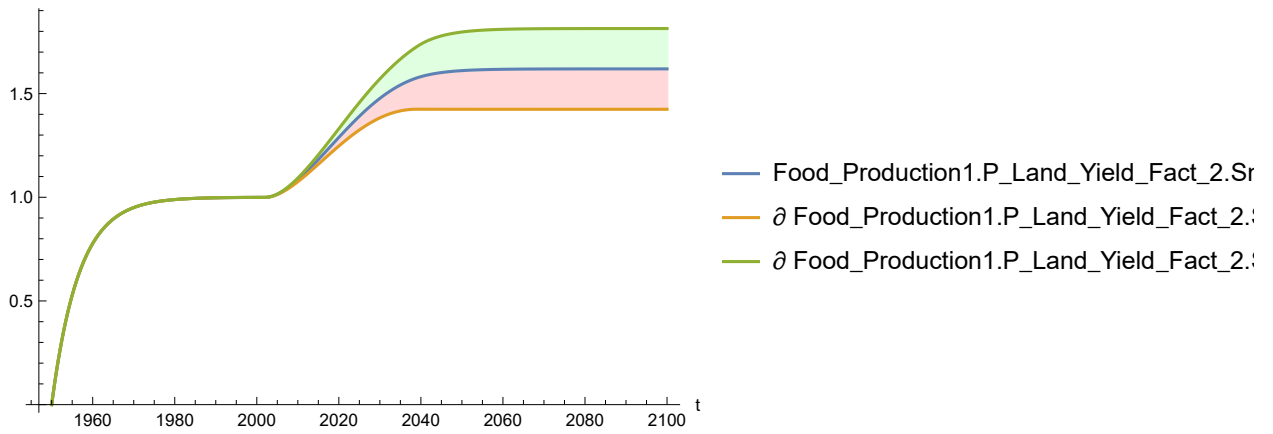
Plot the sensitivity of Food_Production1.P_Land_Yield_Fact_2.Smooth1.Integrator1.y to Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals.

```
In[55]:= SystemModelPlot[simsensdata,
  {"Food_Production1.P_Land_Yield_Fact_2.Smooth1.Integrator1.y",
   "Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[1]", percentvar}]
```



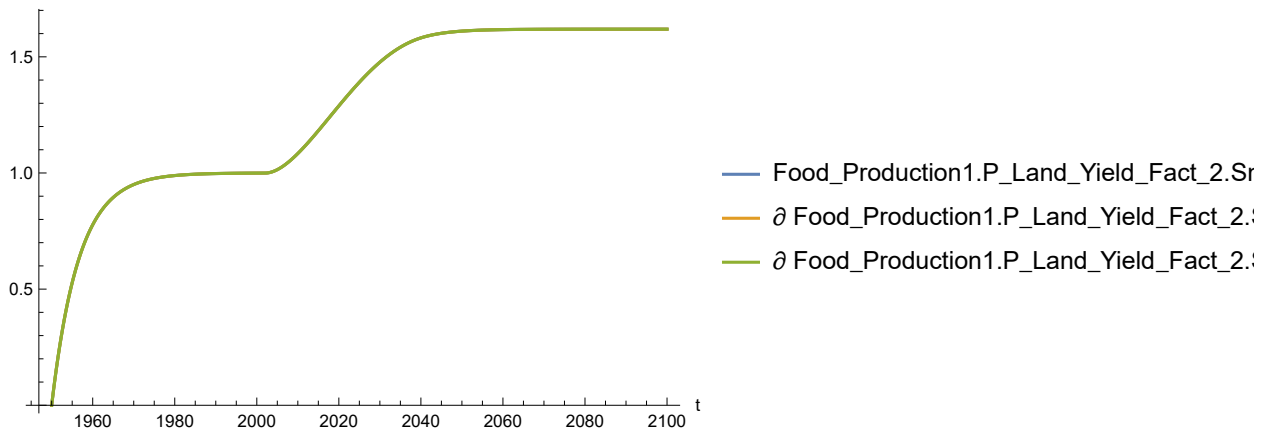
```
In[56]:= SystemModelPlot[simsensdata,
  {"Food_Production1.P_Land_Yield_Fact_2.Smooth1.Integrator1.y",
   "Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[2]", percentvar}]
```

Out[56]=

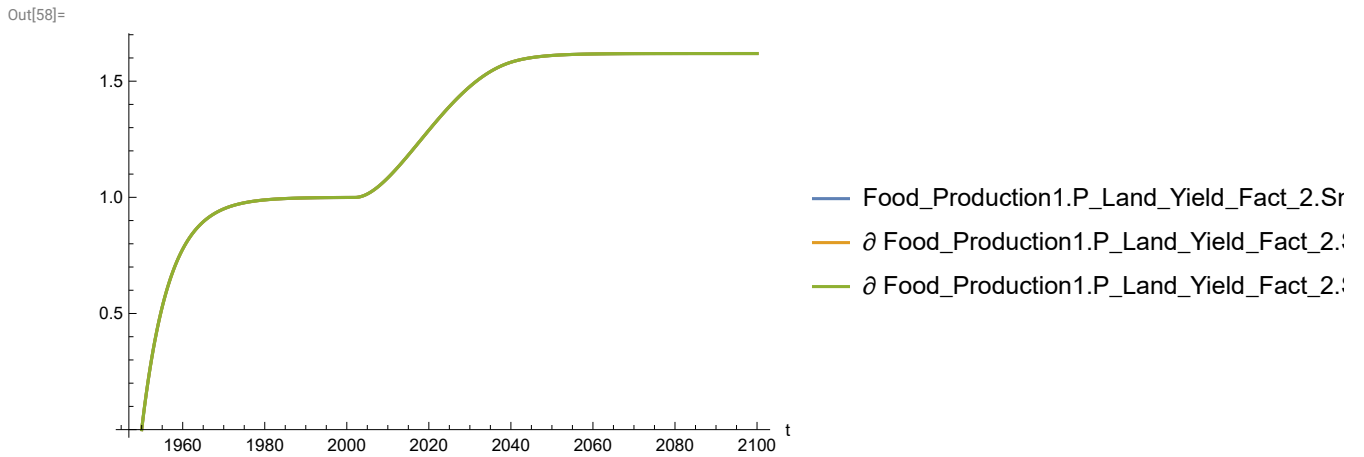


```
In[57]:= SystemModelPlot[simsensdata,
  {"Food_Production1.P_Land_Yield_Fact_2.Smooth1.Integrator1.y",
   "Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[3]", percentvar}]
```

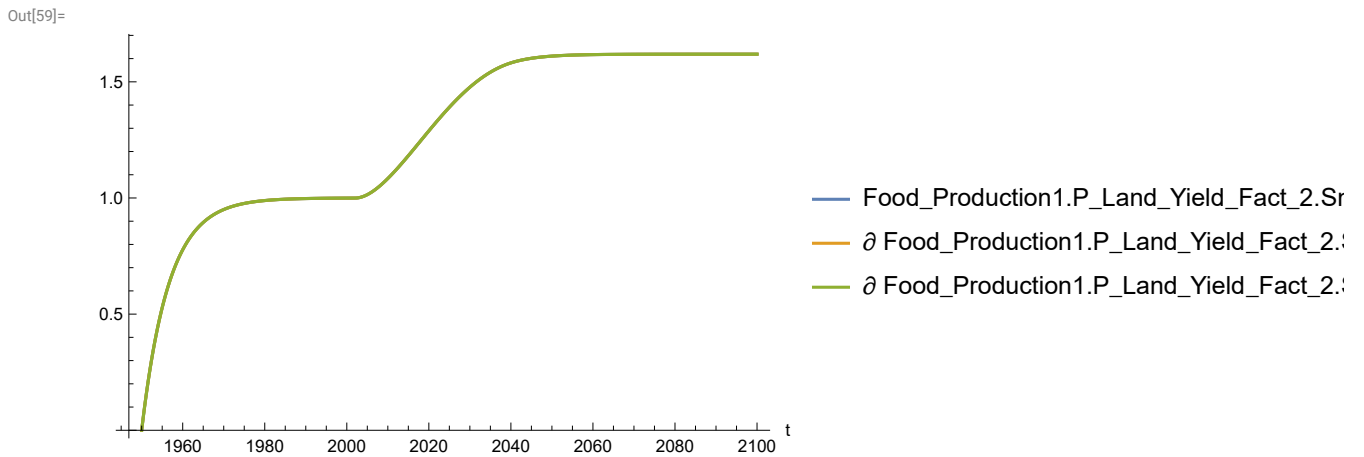
Out[57]=



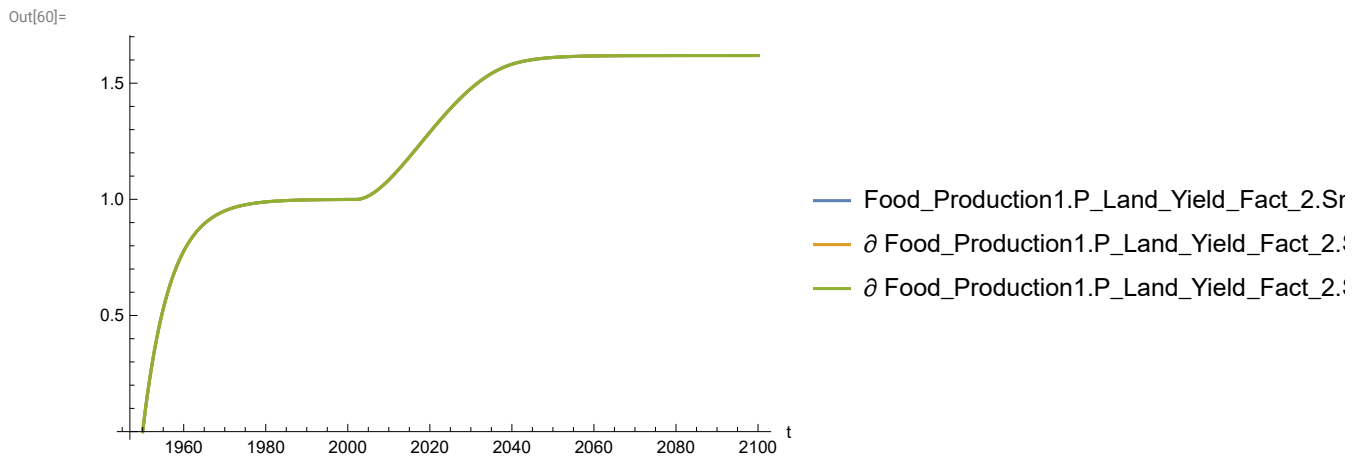
```
In[58]:= SystemModelPlot[simsensdata,
  {"Food_Production1.P_Land_Yield_Fact_2.Smooth1.Integrator1.y",
   "Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[4]", percentvar}]
```



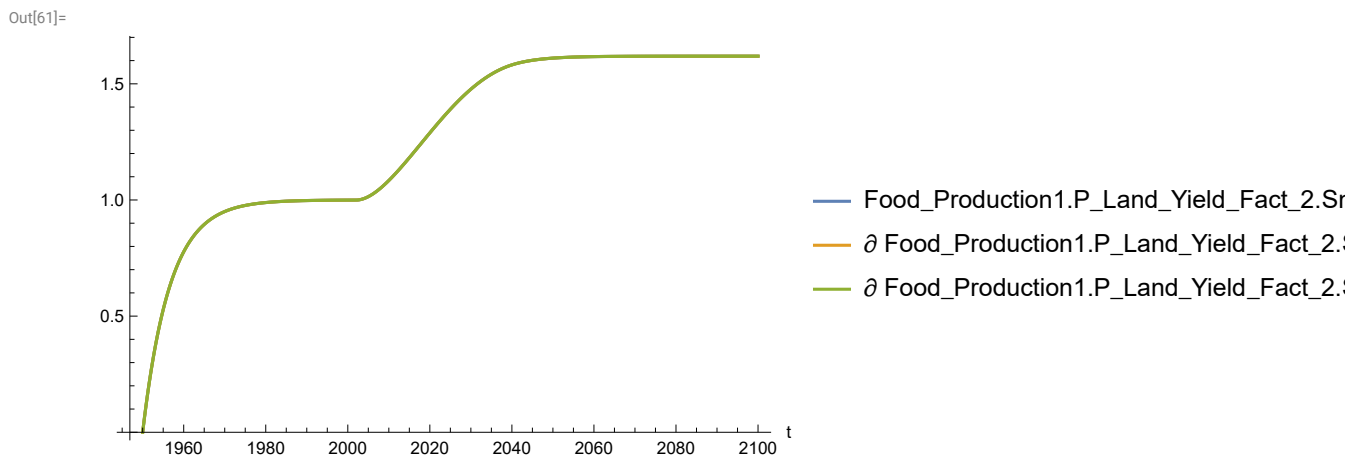
```
In[59]:= SystemModelPlot[simsensdata,
  {"Food_Production1.P_Land_Yield_Fact_2.Smooth1.Integrator1.y",
   "Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[5]", percentvar}]
```



```
In[60]:= SystemModelPlot[simsensdata,
  {"Food_Production1.P_Land_Yield_Fact_2.Smooth1.Integrator1.y",
   "Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[6]", percentvar}]
```

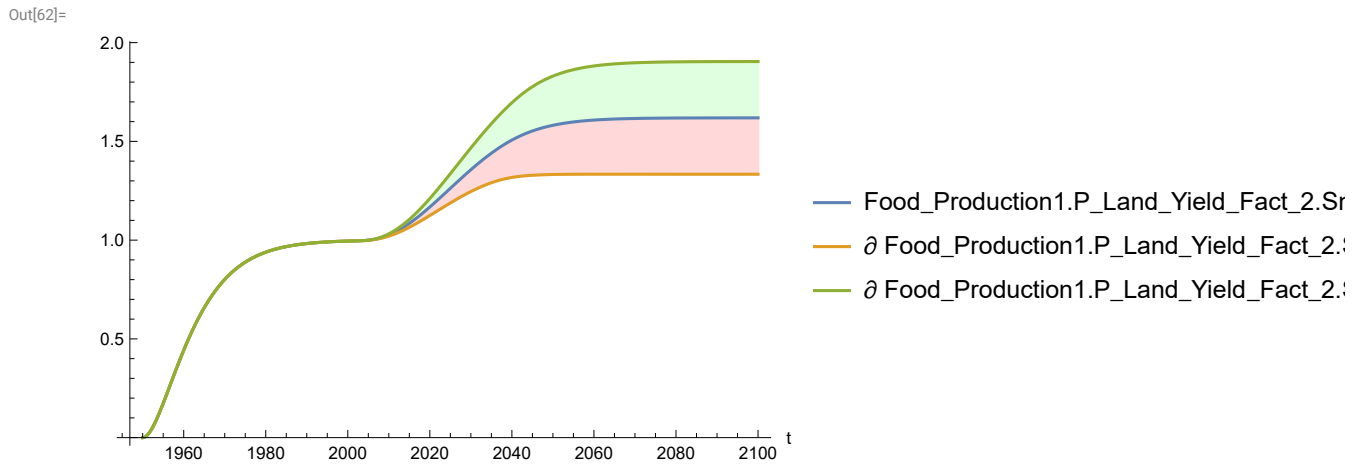


```
In[61]:= SystemModelPlot[simsensdata,
  {"Food_Production1.P_Land_Yield_Fact_2.Smooth1.Integrator1.y",
   "Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[7]", percentvar}]
```

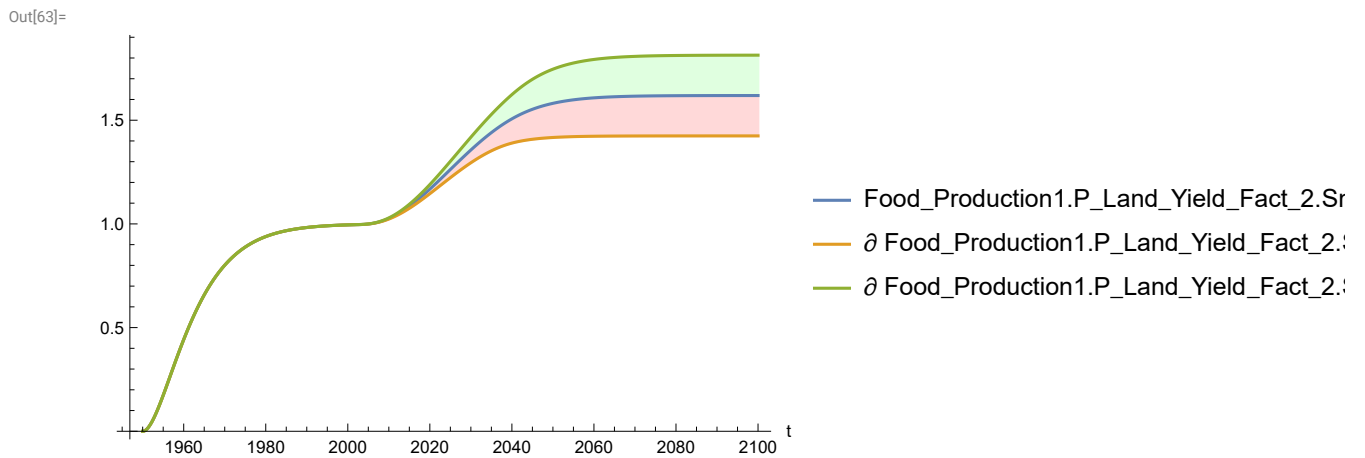


Plot the sensitivity of Food_Production1.P_Land_Yield_Fact_2.Smooth2.Integrator1.y to Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals.

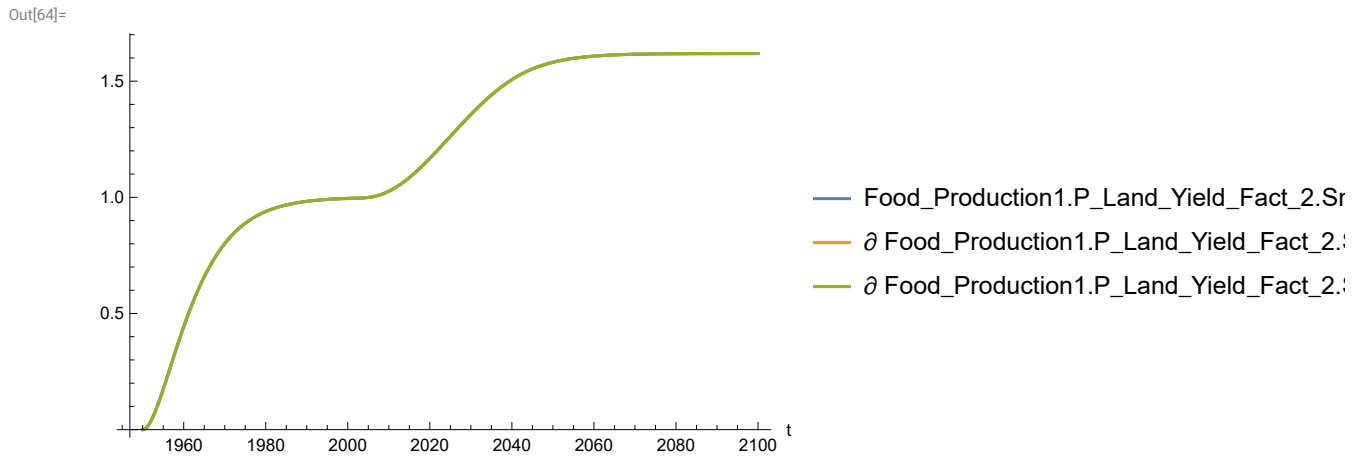
```
In[62]:= SystemModelPlot[simsensdata,
  {"Food_Production1.P_Land_Yield_Fact_2.Smooth2.Integrator1.y",
   "Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[1]", percentvar}]
```



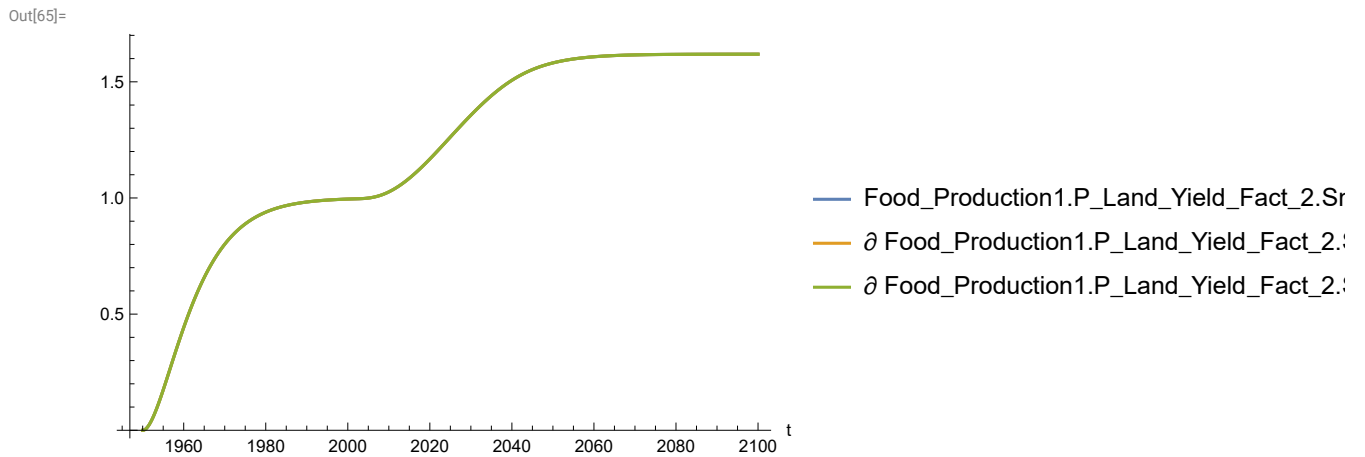
```
In[63]:= SystemModelPlot[simsensdata,
  {"Food_Production1.P_Land_Yield_Fact_2.Smooth2.Integrator1.y",
   "Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[2]", percentvar}]
```



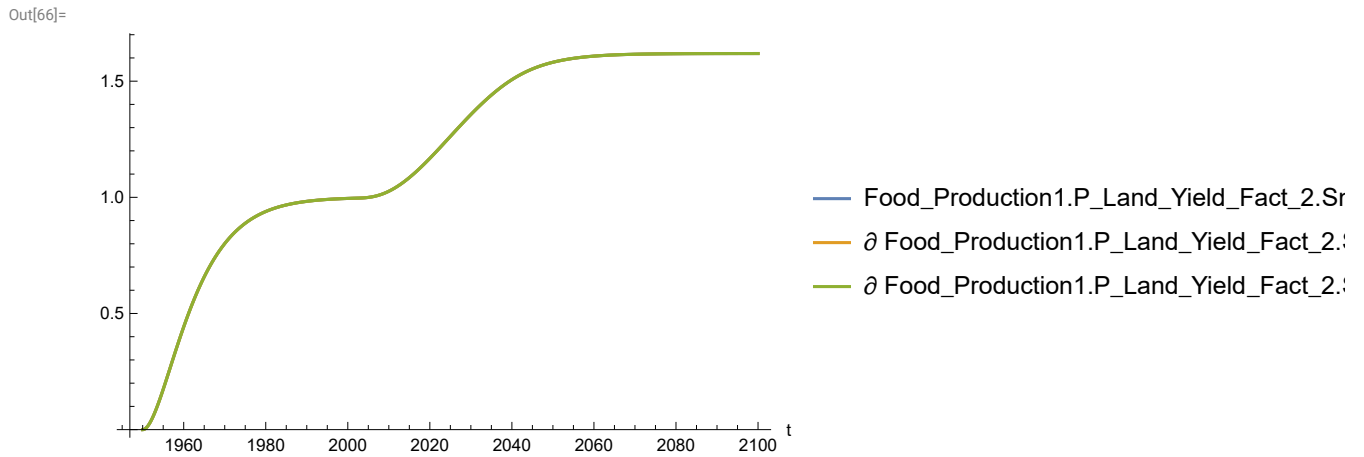
```
In[64]:= SystemModelPlot[simsensdata,
  {"Food_Production1.P_Land_Yield_Fact_2.Smooth2.Integrator1.y",
   "Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[3]", percentvar}]
```



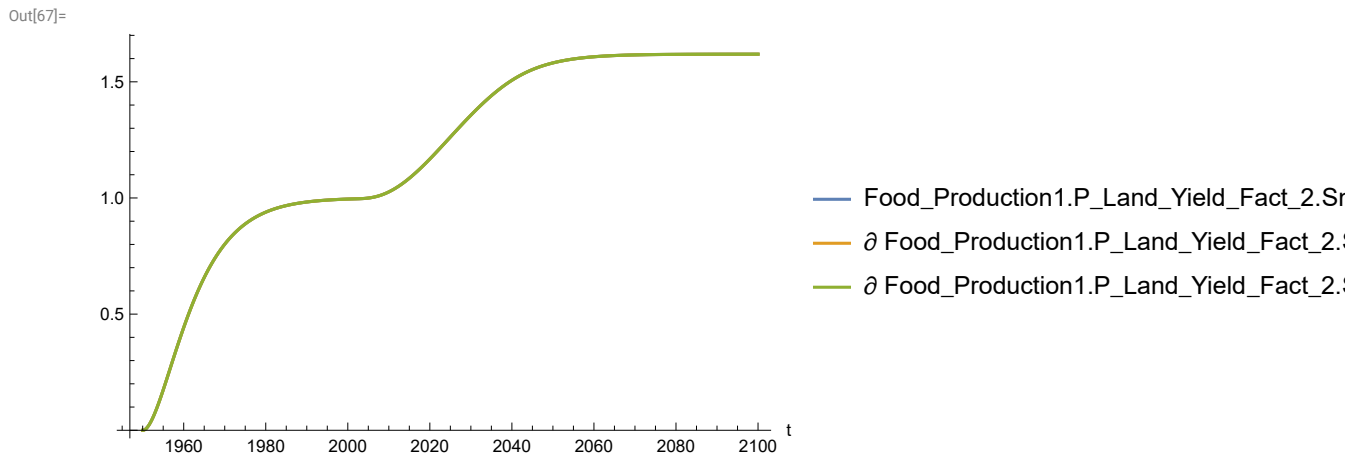
```
In[65]:= SystemModelPlot[simsensdata,
  {"Food_Production1.P_Land_Yield_Fact_2.Smooth2.Integrator1.y",
   "Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[4]", percentvar}]
```




```
In[66]:= SystemModelPlot[simsensdata,
  {"Food_Production1.P_Land_Yield_Fact_2.Smooth2.Integrator1.y",
   "Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[5]", percentvar}]
```

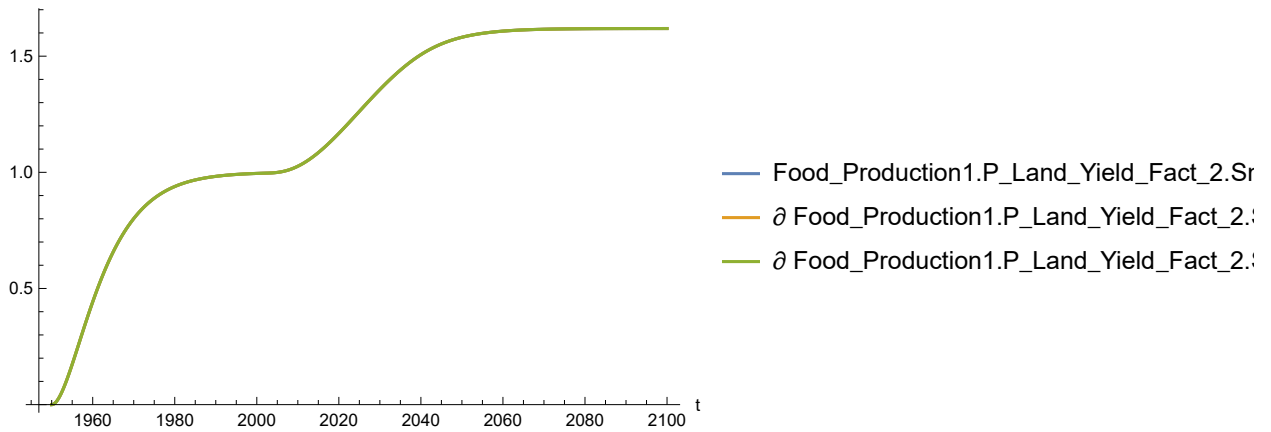


```
In[67]:= SystemModelPlot[simsensdata,
  {"Food_Production1.P_Land_Yield_Fact_2.Smooth2.Integrator1.y",
   "Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[6]", percentvar}]
```



```
In[68]:= SystemModelPlot[simsensdata,
  {"Food_Production1.P_Land_Yield_Fact_2.Smooth2.Integrator1.y",
   "Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[7]", percentvar}]
```

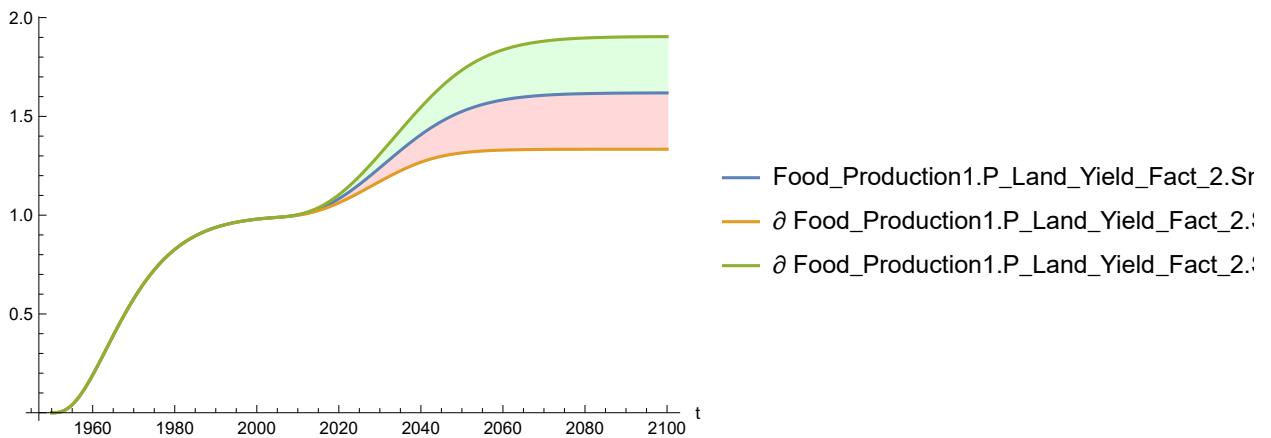
Out[68]=



Plot sensitivity of **Food_Production1.P_Land_Yield_Fact_2.Smooth3.Integrator1.y** to Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals

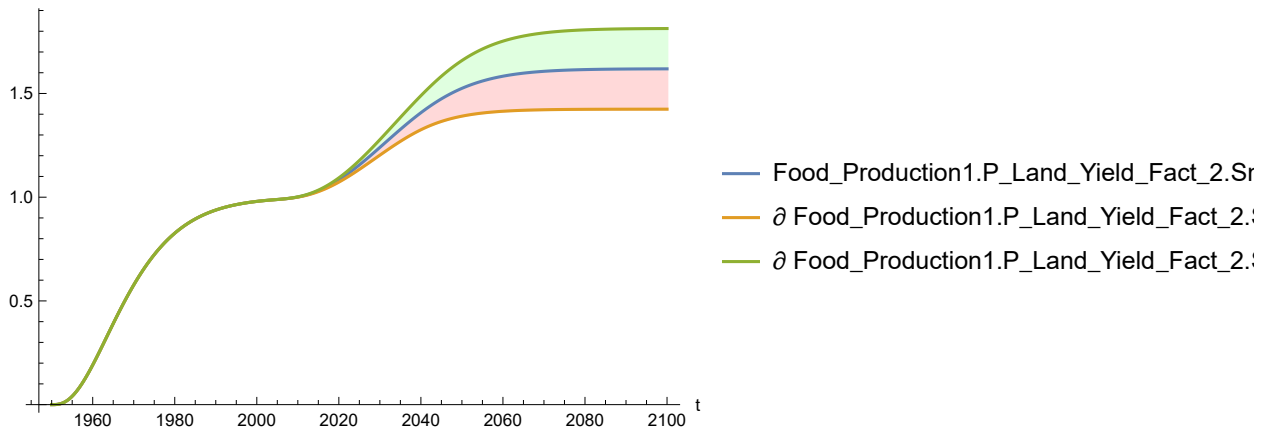
```
In[69]:= SystemModelPlot[simsensdata,
  {"Food_Production1.P_Land_Yield_Fact_2.Smooth3.Integrator1.y",
   "Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[1]", percentvar}]
```

Out[69]=



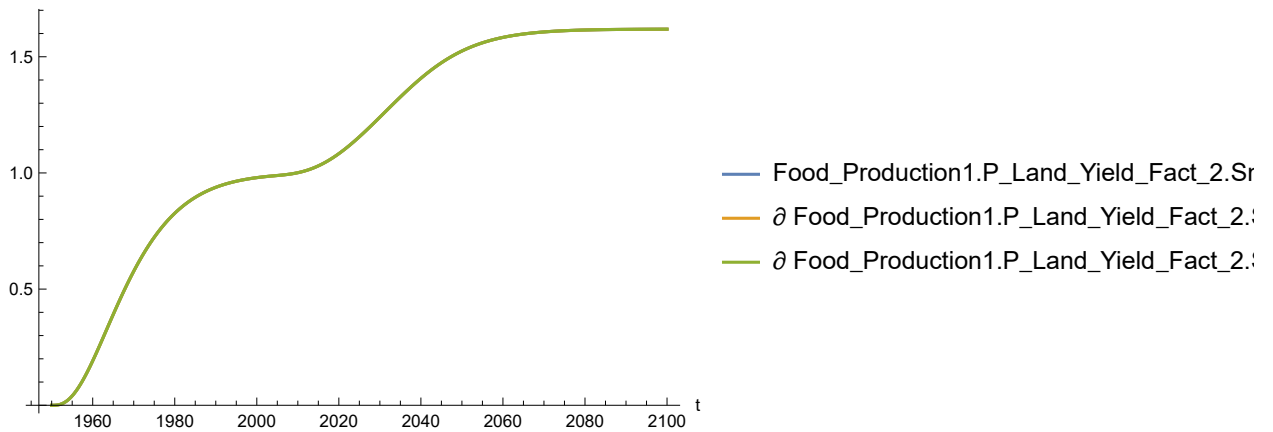
```
In[70]:= SystemModelPlot[simsensdata,
  {"Food_Production1.P_Land_Yield_Fact_2.Smooth3.Integrator1.y",
   "Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[2]", percentvar}]
```

Out[70]=



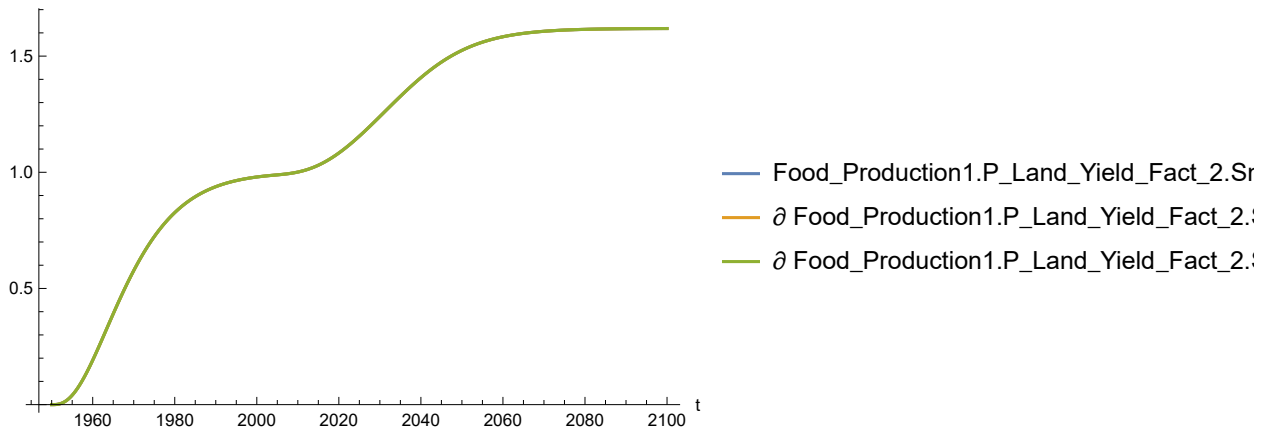
```
In[71]:= SystemModelPlot[simsensdata,
  {"Food_Production1.P_Land_Yield_Fact_2.Smooth3.Integrator1.y",
   "Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[3]", percentvar}]
```

Out[71]=



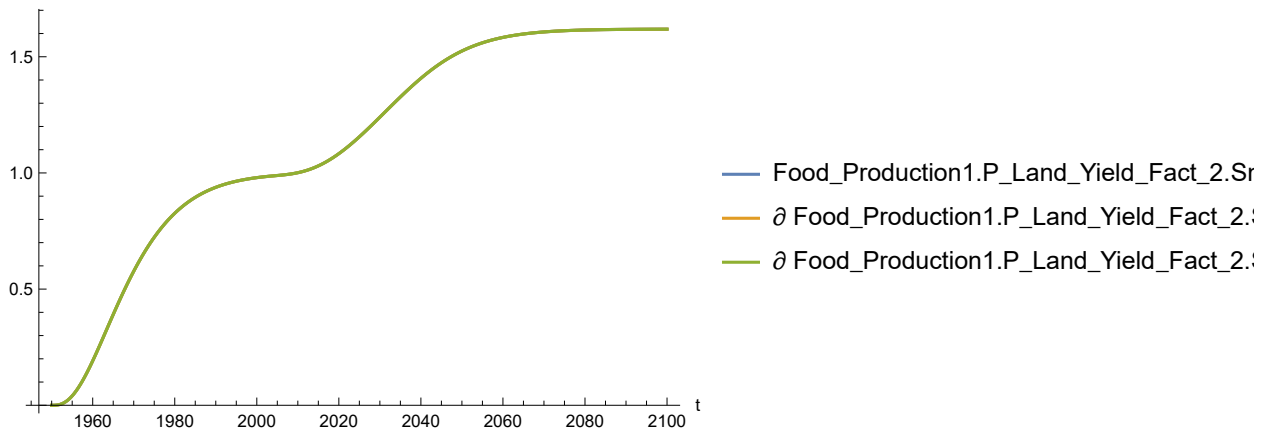
```
In[72]:= SystemModelPlot[simsensdata,
  {"Food_Production1.P_Land_Yield_Fact_2.Smooth3.Integrator1.y",
   "Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[4]", percentvar}]
```

Out[72]=

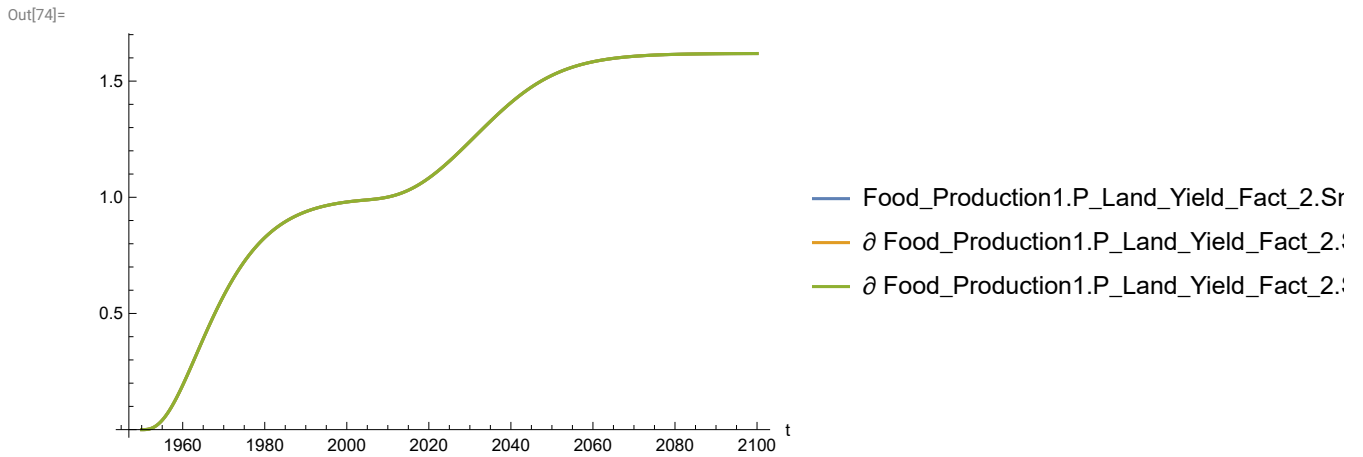


```
In[73]:= SystemModelPlot[simsensdata,
  {"Food_Production1.P_Land_Yield_Fact_2.Smooth3.Integrator1.y",
   "Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[5]", percentvar}]
```

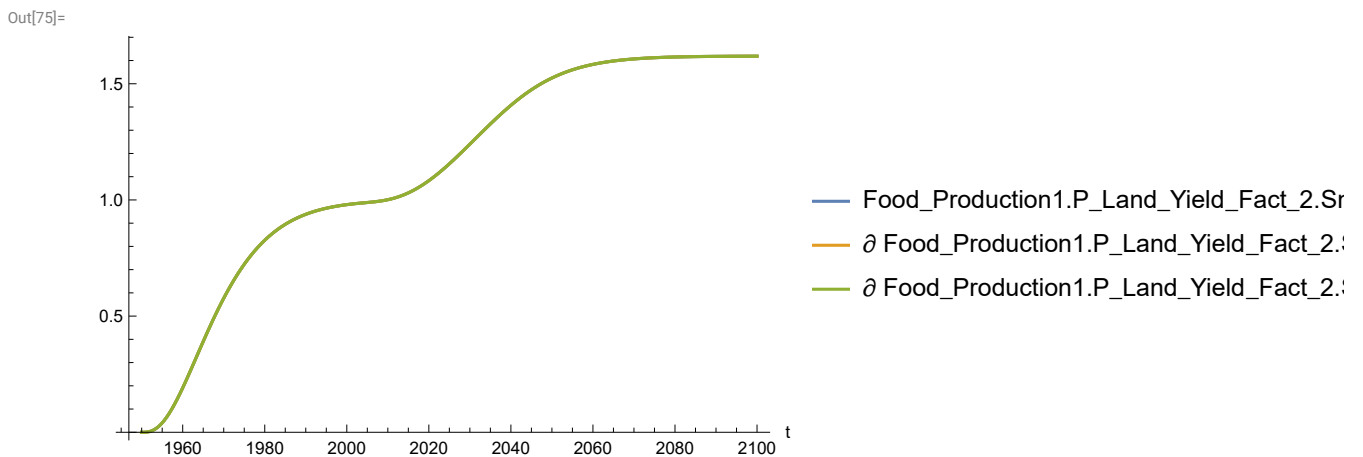
Out[73]=



```
In[74]:= SystemModelPlot[simsensdata,
  {"Food_Production1.P_Land_Yield_Fact_2.Smooth3.Integrator1.y",
   "Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[6]", percentvar}]
```



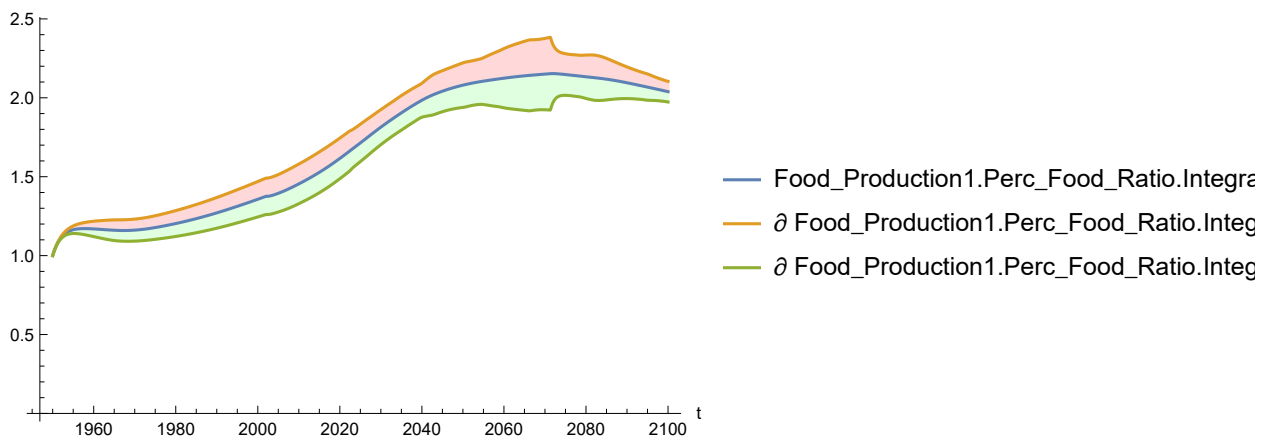
```
In[75]:= SystemModelPlot[simsensdata,
  {"Food_Production1.P_Land_Yield_Fact_2.Smooth3.Integrator1.y",
   "Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[7]", percentvar}]
```



Plot sensitivity of **Food_Production1.Perc_Food_Ratio.Integrator1.y** to **Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals**

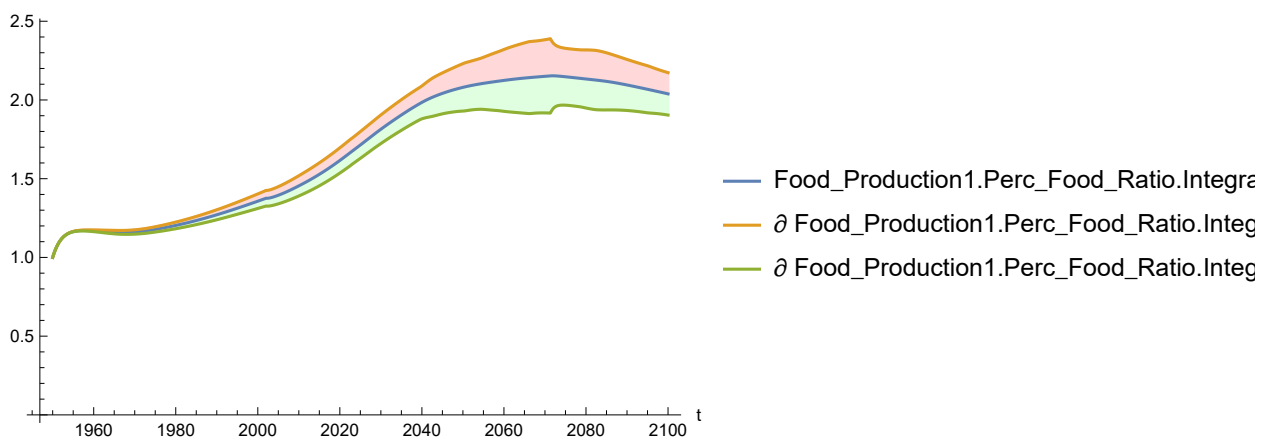
```
In[76]:= SystemModelPlot[simsensdata, {"Food_Production1.Perc_Food_Ratio.Integrator1.y",
"Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[1]", percentvar}]
```

Out[76]=



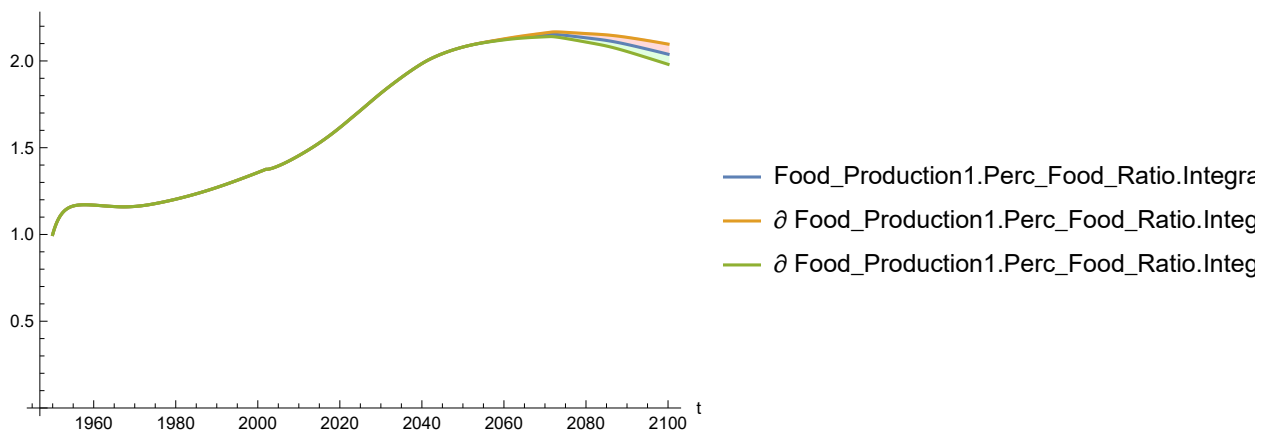
```
In[77]:= SystemModelPlot[simsensdata, {"Food_Production1.Perc_Food_Ratio.Integrator1.y",
"Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[2]", percentvar}]
```

Out[77]=



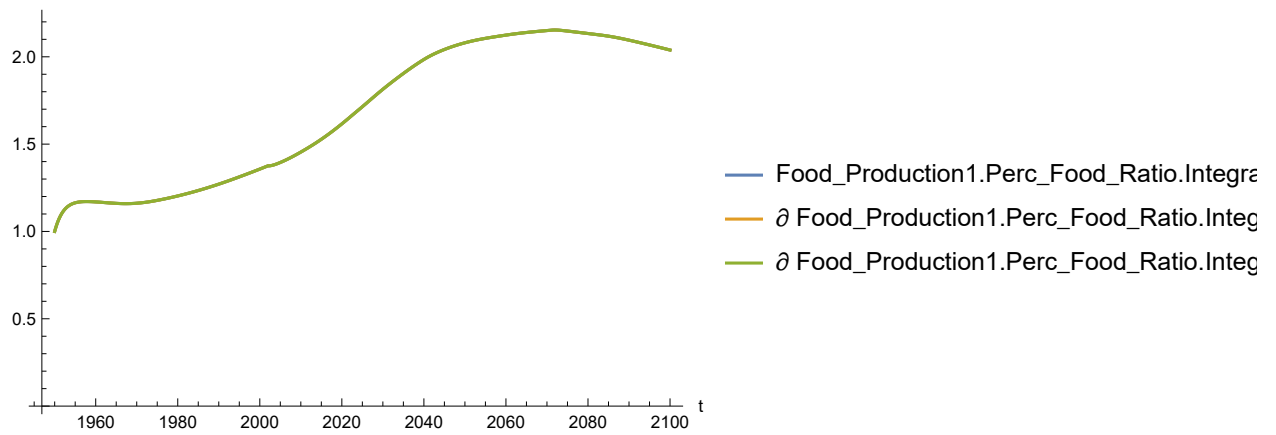
```
In[78]:= SystemModelPlot[simsensdata, {"Food_Production1.Perc_Food_Ratio.Integrator1.y",
"Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[3]", percentvar}]
```

Out[78]=



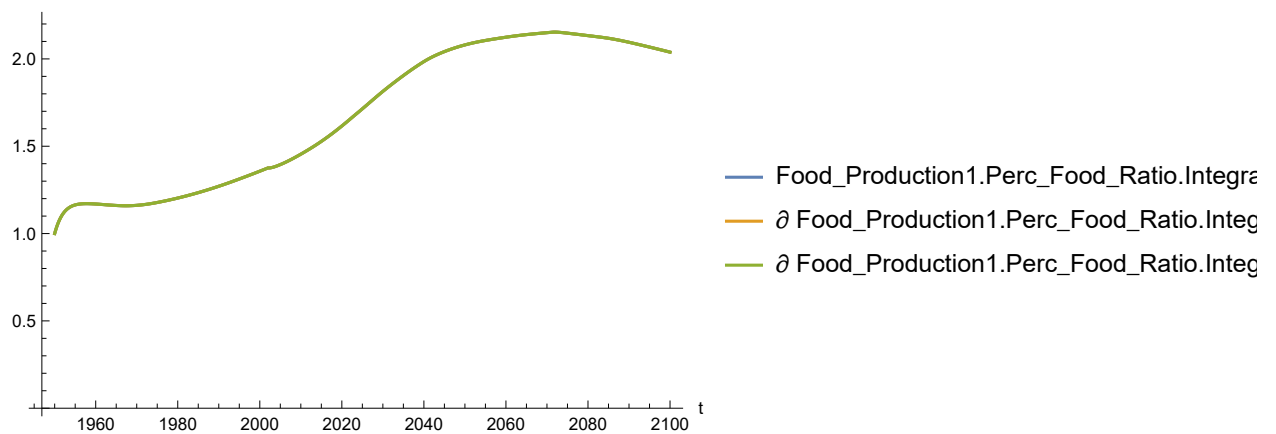
```
In[79]:= SystemModelPlot[simsensdata, {"Food_Production1.Perc_Food_Ratio.Integrator1.y",
"Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[4]", percentvar}]
```

Out[79]=



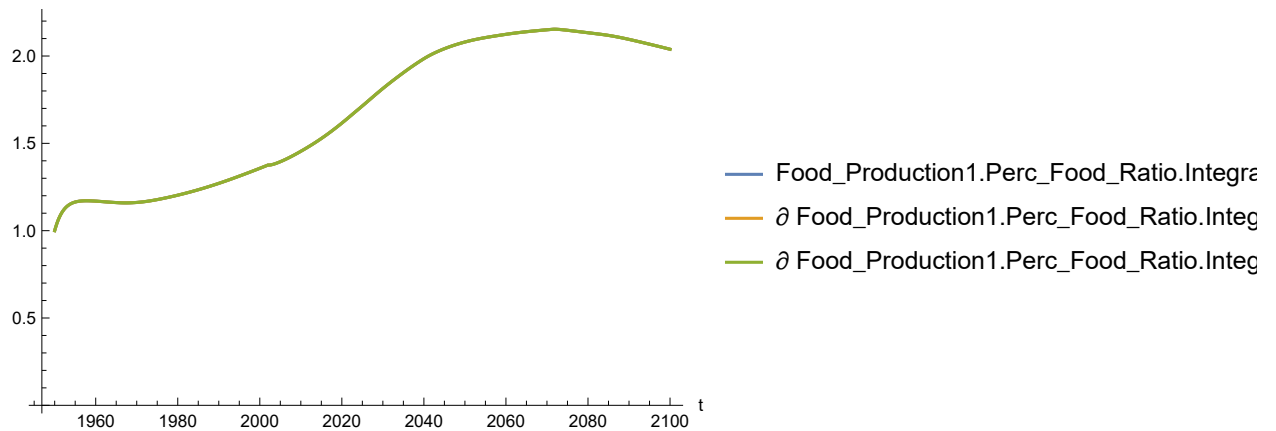
```
In[80]:= SystemModelPlot[simsensdata, {"Food_Production1.Perc_Food_Ratio.Integrator1.y",
"Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[5]", percentvar}]
```

Out[80]=



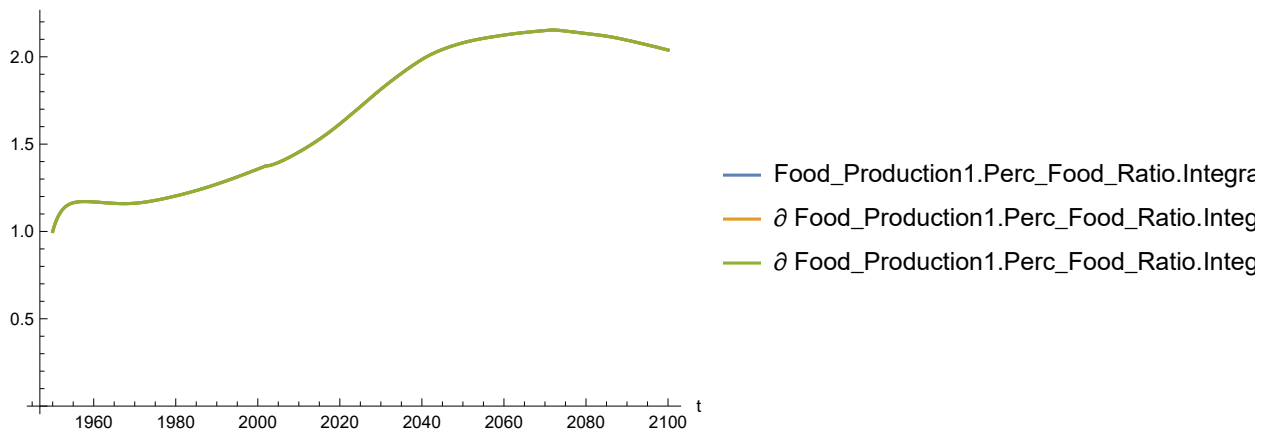
```
In[81]:= SystemModelPlot[simsensdata, {"Food_Production1.Perc_Food_Ratio.Integrator1.y",
"Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[6]", percentvar}]
```

Out[81]=



```
In[82]:= SystemModelPlot[simsensdata, {"Food_Production1.Perc_Food_Ratio.Integrator1.y",
"Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[7]", percentvar}]
```

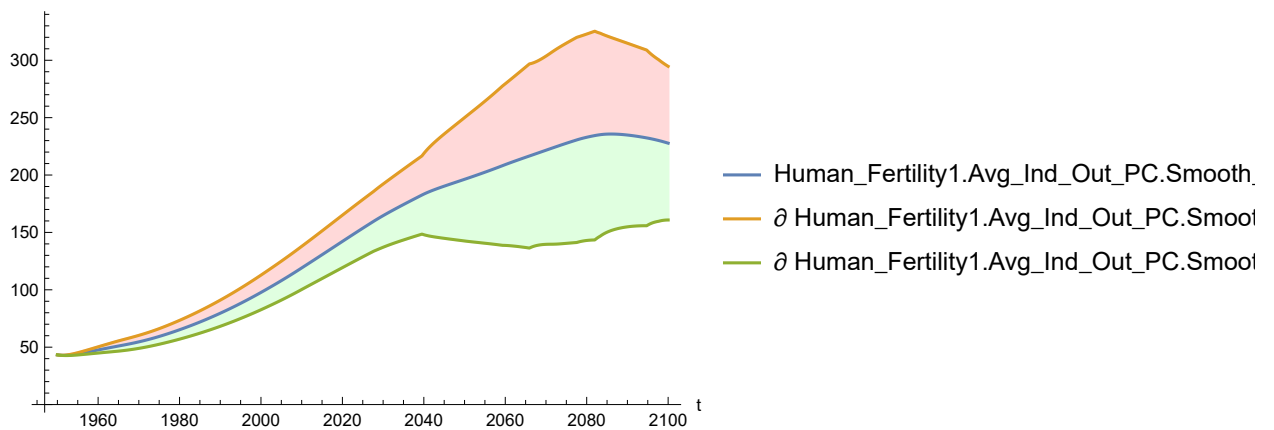
Out[82]=



Plot the sensitivity of `Human_Fertility1.Avg_Ind_Out_PC.Smooth_of_Input.Integrator1.y` to `Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals`.

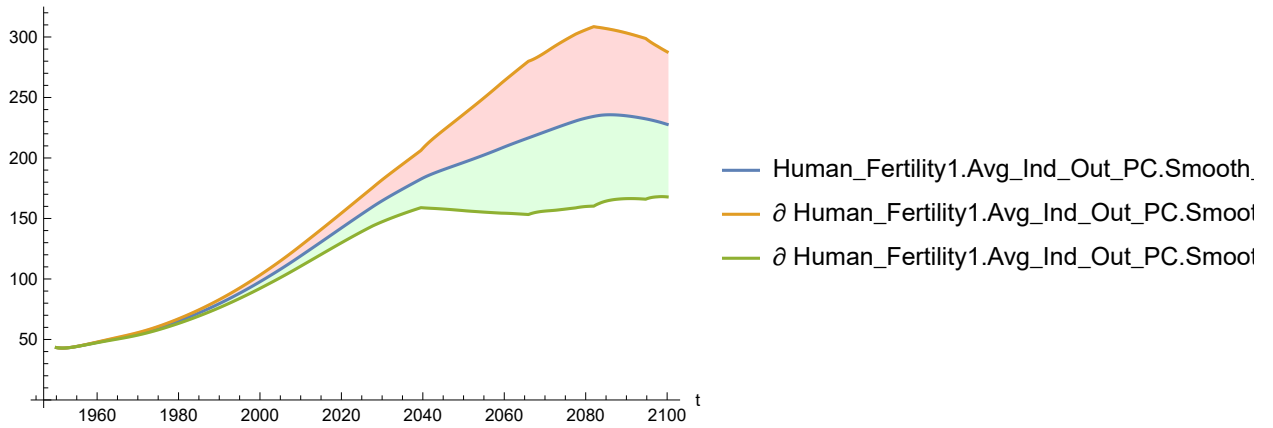
```
In[83]:= SystemModelPlot[simsensdata, {"Human_Fertility1.Avg_Ind_Out_PC.Smooth_of_Input.Integrator1.y",
"Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[1]", percentvar}]
```

Out[83]=



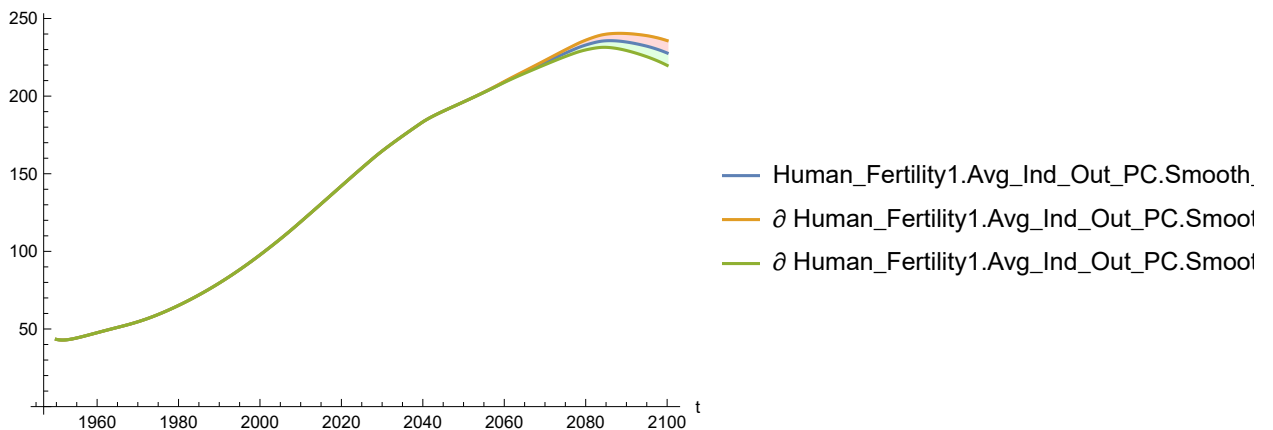

```
In[84]:= SystemModelPlot[simsensdata,
  {"Human_Fertility1.Avg_Ind_Out_PC.Smooth_of_Input.Integrator1.y",
   "Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[2]", percentvar}]
```

Out[84]=



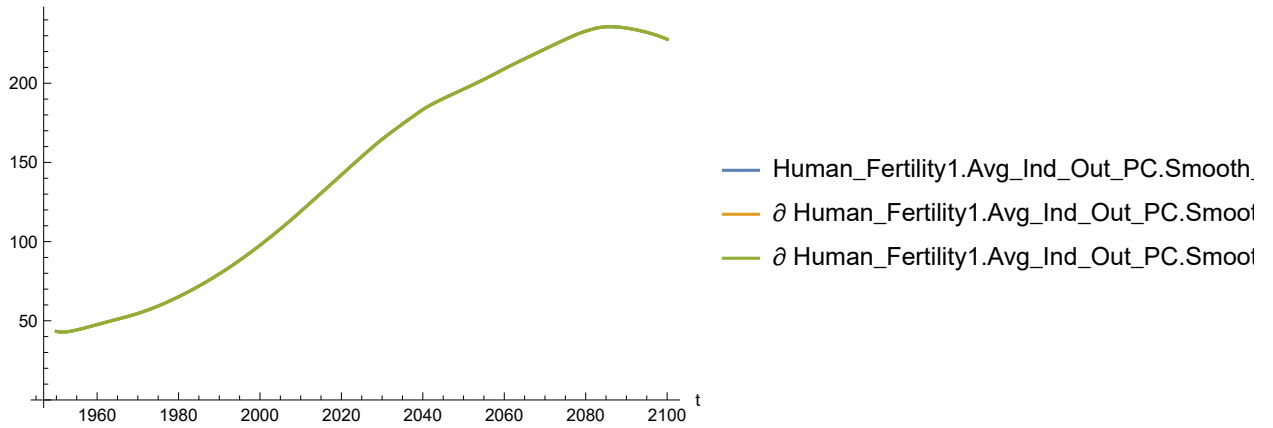
```
In[85]:= SystemModelPlot[simsensdata,
  {"Human_Fertility1.Avg_Ind_Out_PC.Smooth_of_Input.Integrator1.y",
   "Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[3]", percentvar}]
```

Out[85]=



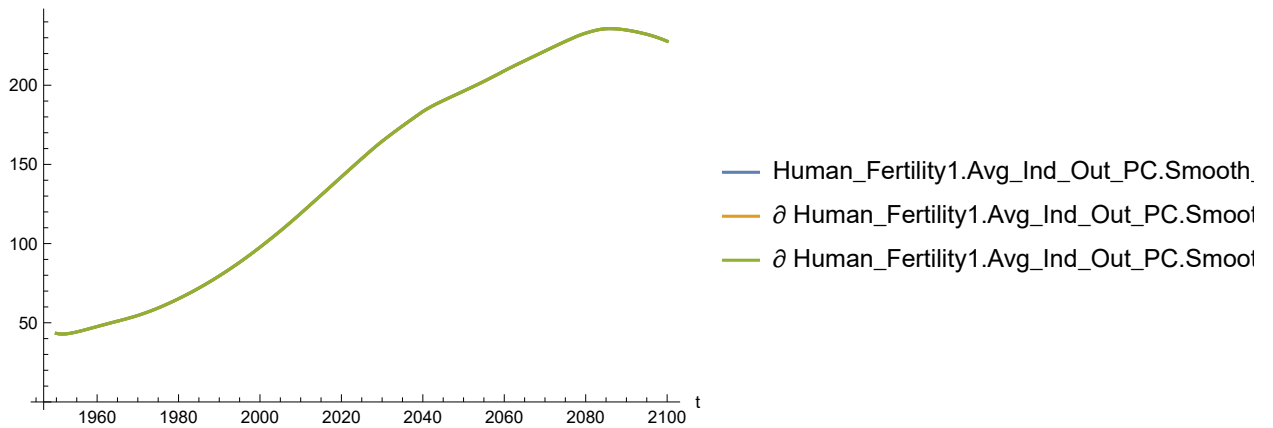
```
In[86]:= SystemModelPlot[simsensdata,
  {"Human_Fertility1.Avg_Ind_Out_PC.Smooth_of_Input.Integrator1.y",
   "Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[4]", percentvar}]
```

Out[86]=

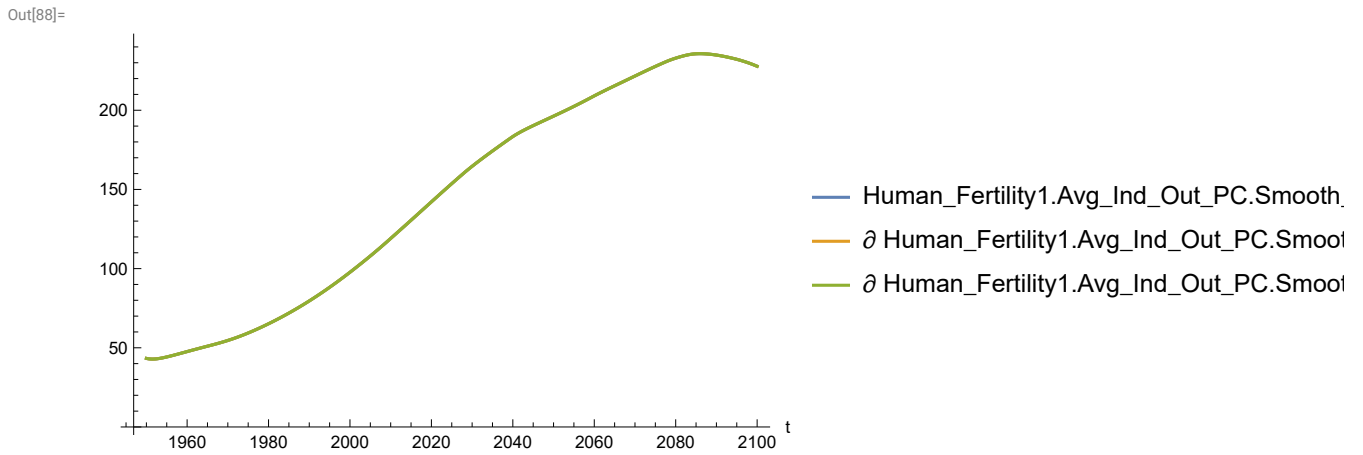


```
In[87]:= SystemModelPlot[simsensdata,
  {"Human_Fertility1.Avg_Ind_Out_PC.Smooth_of_Input.Integrator1.y",
   "Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[5]", percentvar}]
```

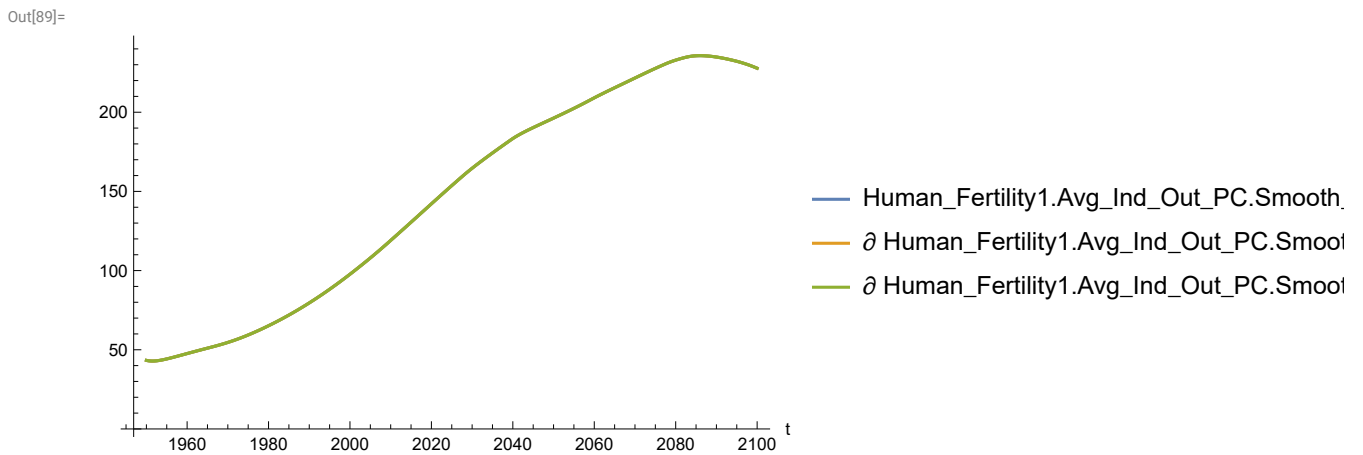
Out[87]=



```
In[88]:= SystemModelPlot[simsensdata,
  {"Human_Fertility1.Avg_Ind_Out_PC.Smooth_of_Input.Integrator1.y",
   "Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[6]", percentvar}]
```



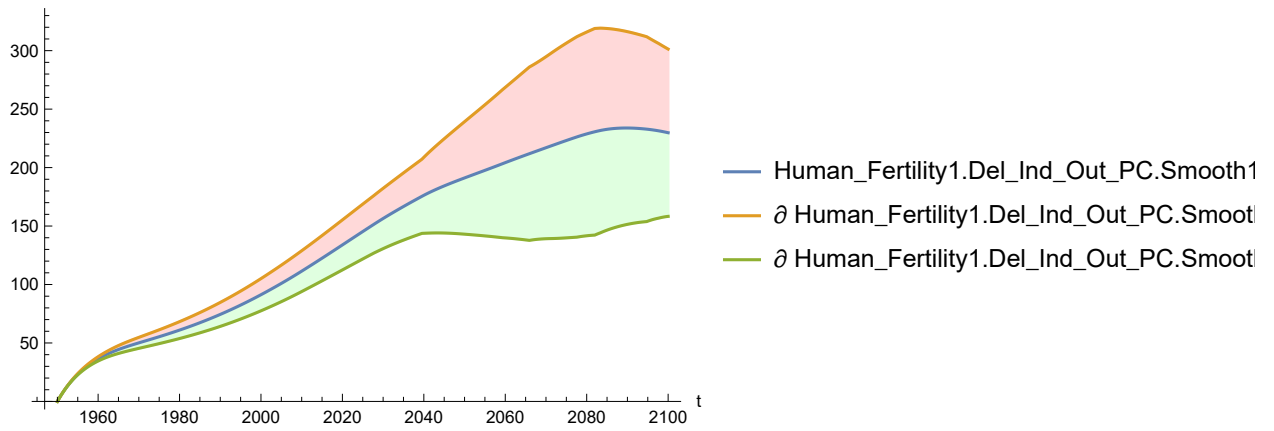
```
In[89]:= SystemModelPlot[simsensdata,
  {"Human_Fertility1.Avg_Ind_Out_PC.Smooth_of_Input.Integrator1.y",
   "Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[7]", percentvar}]
```



Plot the sensitivity of `Human_Fertility1.Del_Ind_Out_PC.Smooth1.Integrator1.y` to `Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals`.

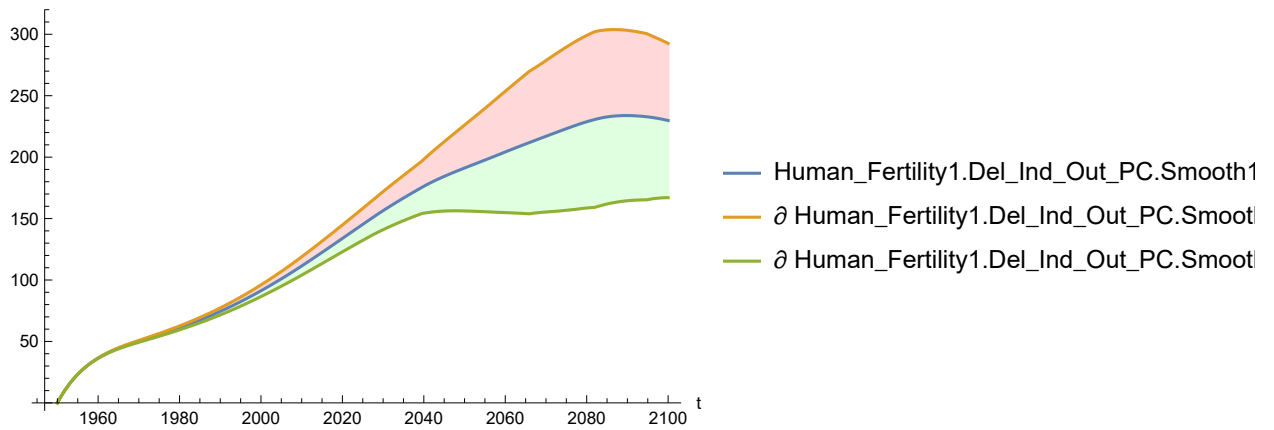
```
In[90]:= SystemModelPlot[simsensdata, {"Human_Fertility1.Del_Ind_Out_PC.Smooth1.Integrator1.y",
"Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[1]", percentvar}]
```

Out[90]=



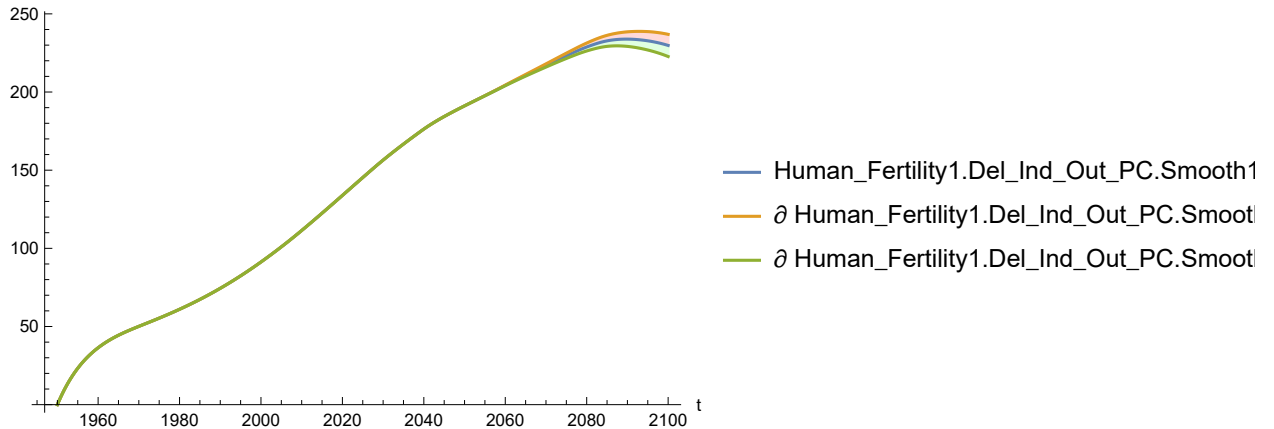
```
In[91]:= SystemModelPlot[simsensdata, {"Human_Fertility1.Del_Ind_Out_PC.Smooth1.Integrator1.y",
"Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[2]", percentvar}]
```

Out[91]=



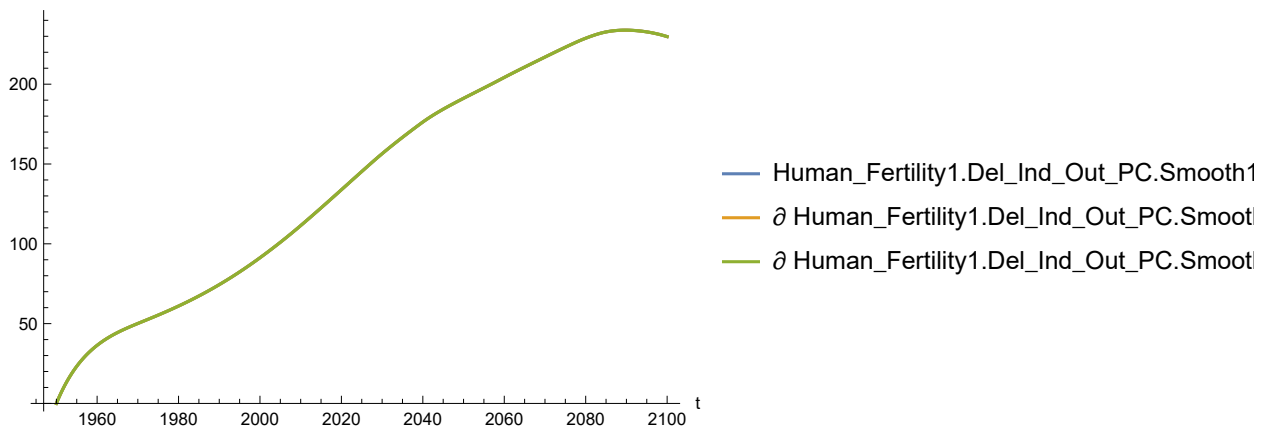
```
In[92]:= SystemModelPlot[simsensdata, {"Human_Fertility1.Del_Ind_Out_PC.Smooth1.Integrator1.y",
"Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[3]", percentvar}]
```

Out[92]=



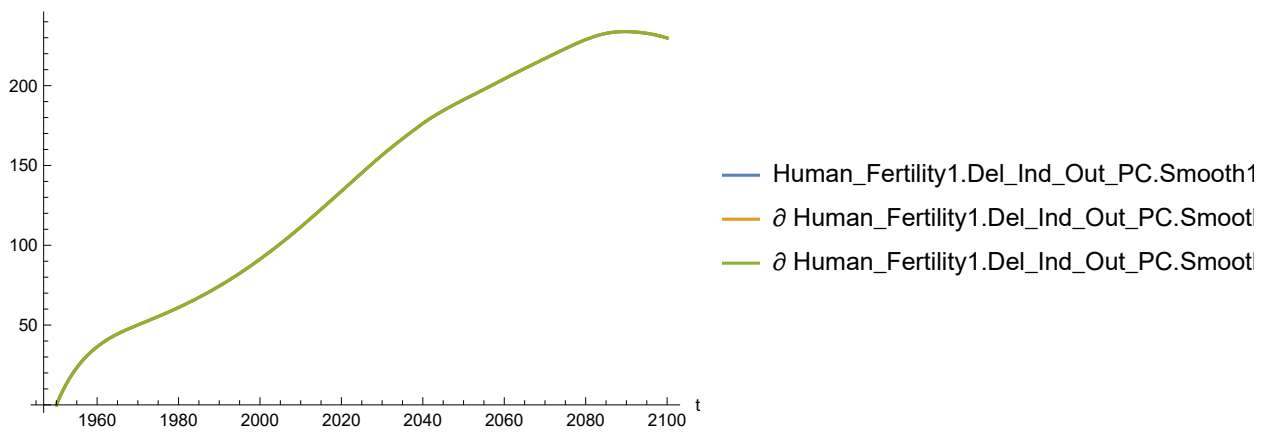
```
In[93]:= SystemModelPlot[simsensdata, {"Human_Fertility1.Del_Ind_Out_PC.Smooth1.Integrator1.y",
"Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[4]", percentvar}]
```

Out[93]=



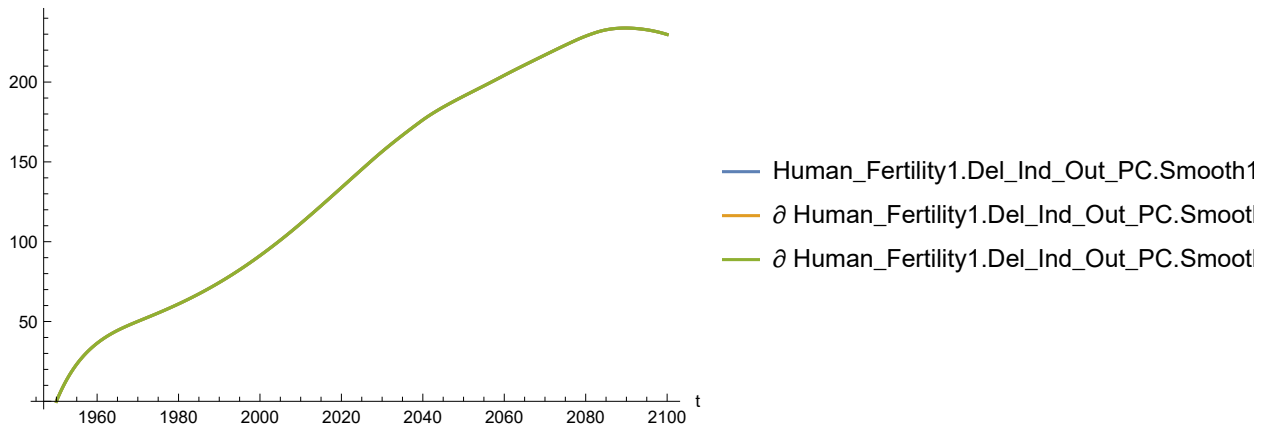
```
In[94]:= SystemModelPlot[simsensdata, {"Human_Fertility1.Del_Ind_Out_PC.Smooth1.Integrator1.y",
"Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[5]", percentvar}]
```

Out[94]=



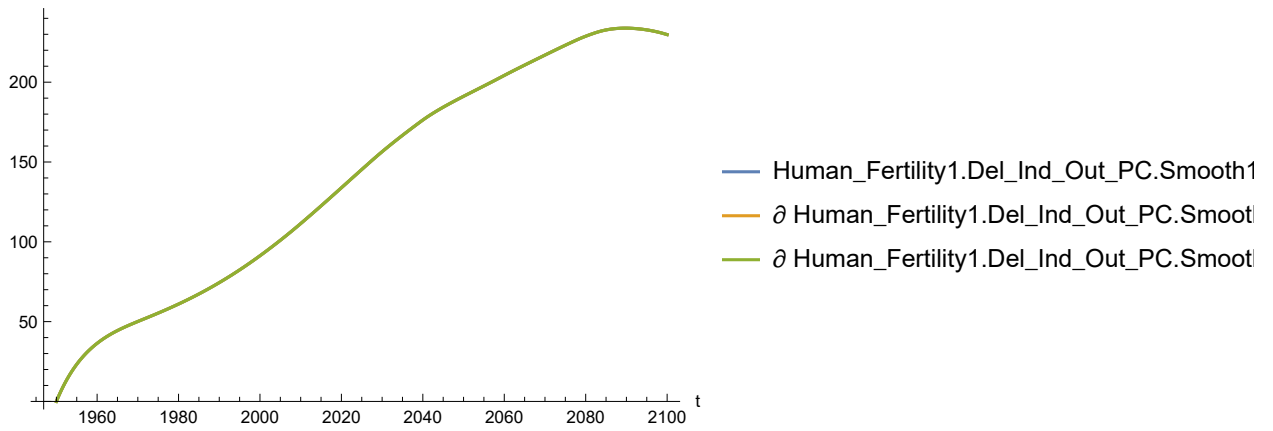
```
In[95]:= SystemModelPlot[simsensdata, {"Human_Fertility1.Del_Ind_Out_PC.Smooth1.Integrator1.y",
"Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[6]", percentvar}]
```

Out[95]=



```
In[96]:= SystemModelPlot[simsensdata, {"Human_Fertility1.De1_Ind_Out_PC.Smooth1.Integrator1.y",
"Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[7]", percentvar}]
```

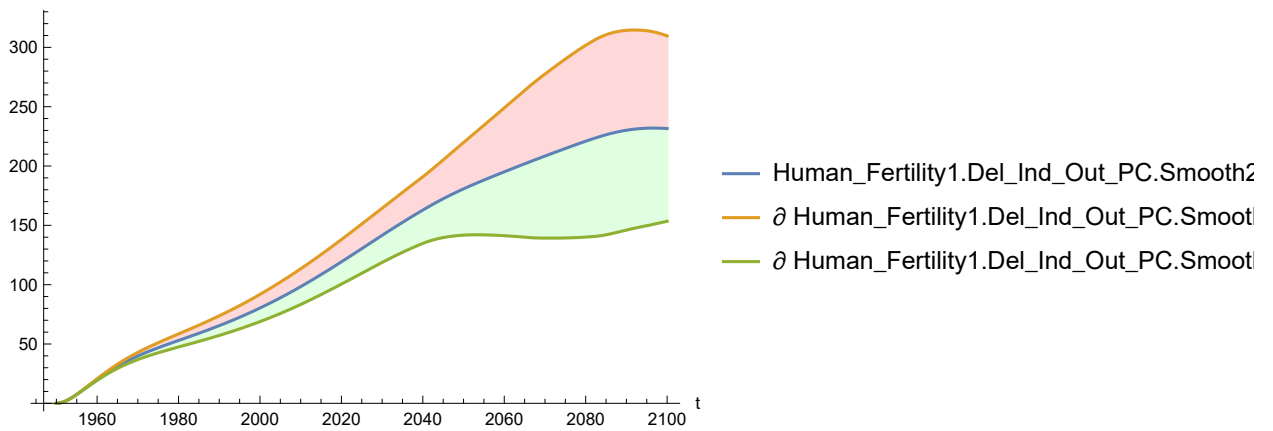
Out[96]=



Plot the sensitivity of Human_Fertility1.De1_Ind_Out_PC.Smooth2.Integrator1.y to Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals.

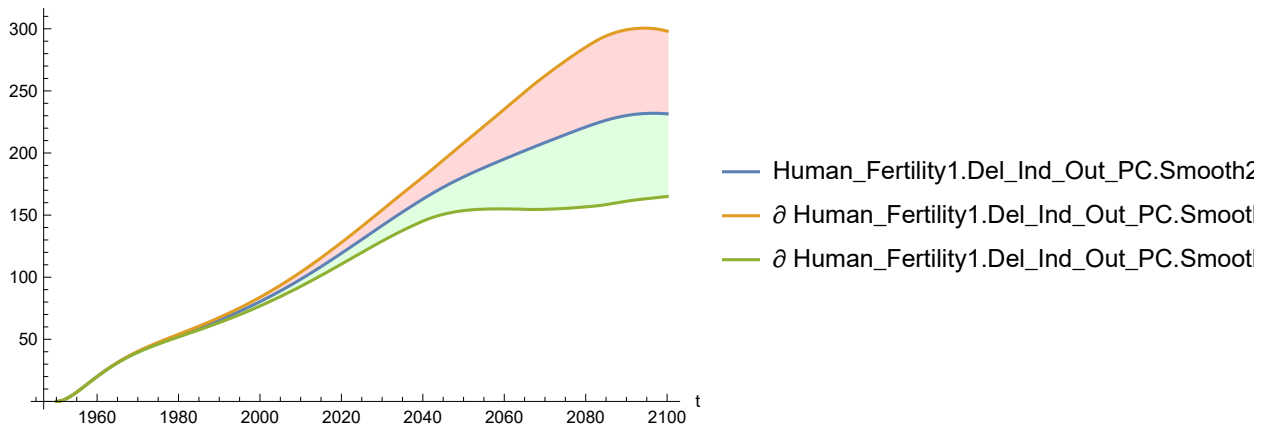
```
In[97]:= SystemModelPlot[simsensdata, {"Human_Fertility1.De1_Ind_Out_PC.Smooth2.Integrator1.y",
"Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[1]", percentvar}]
```

Out[97]=



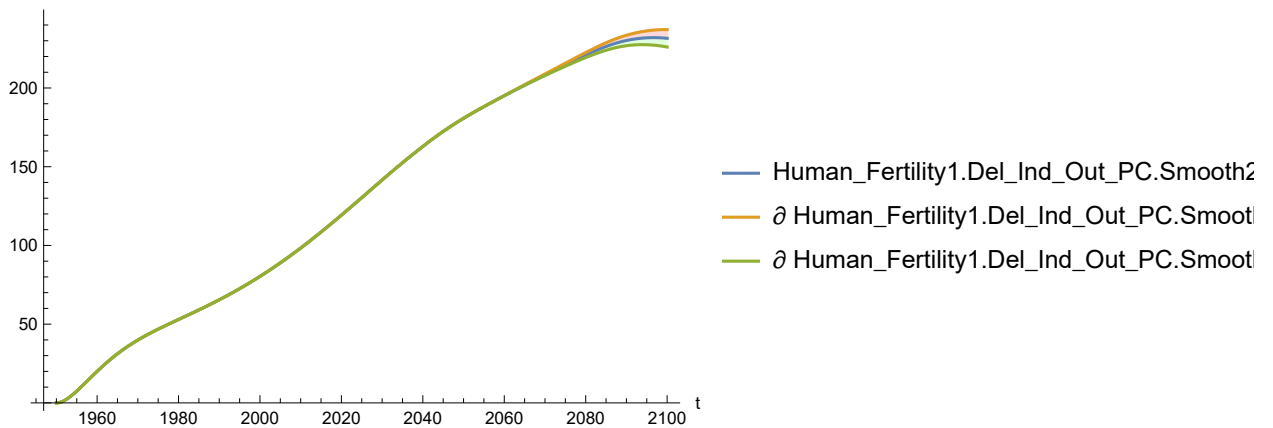
```
In[98]:= SystemModelPlot[simsensdata, {"Human_Fertility1.Del_Ind_Out_PC.Smooth2.Integrator1.y",
"Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[2]", percentvar}]
```

Out[98]=



```
In[99]:= SystemModelPlot[simsensdata, {"Human_Fertility1.Del_Ind_Out_PC.Smooth2.Integrator1.y",
"Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[3]", percentvar}]
```

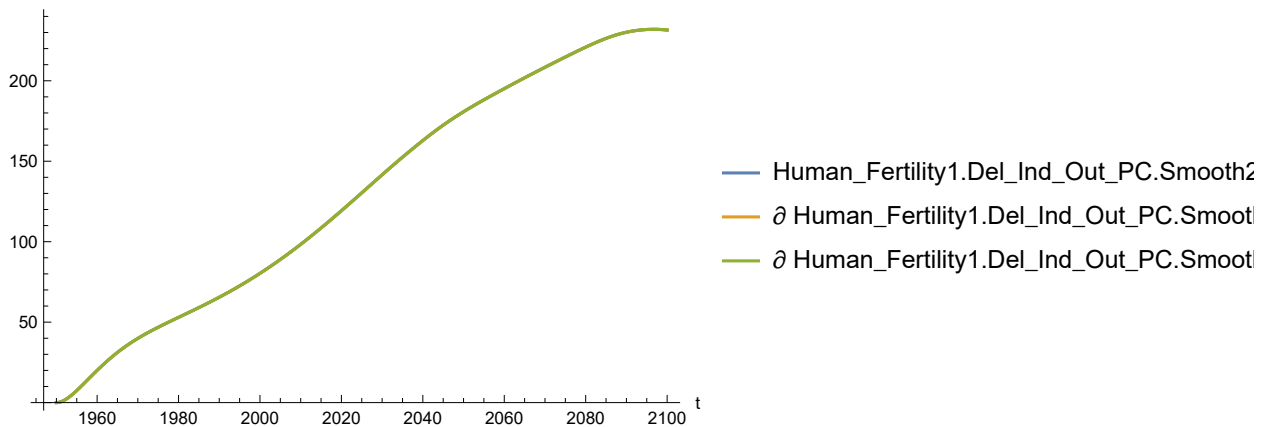
Out[99]=



In[100]=

```
SystemModelPlot[simsensdata, {"Human_Fertility1.Del_Ind_Out_PC.Smooth2.Integrator1.y",
"Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[4]", percentvar}]
```

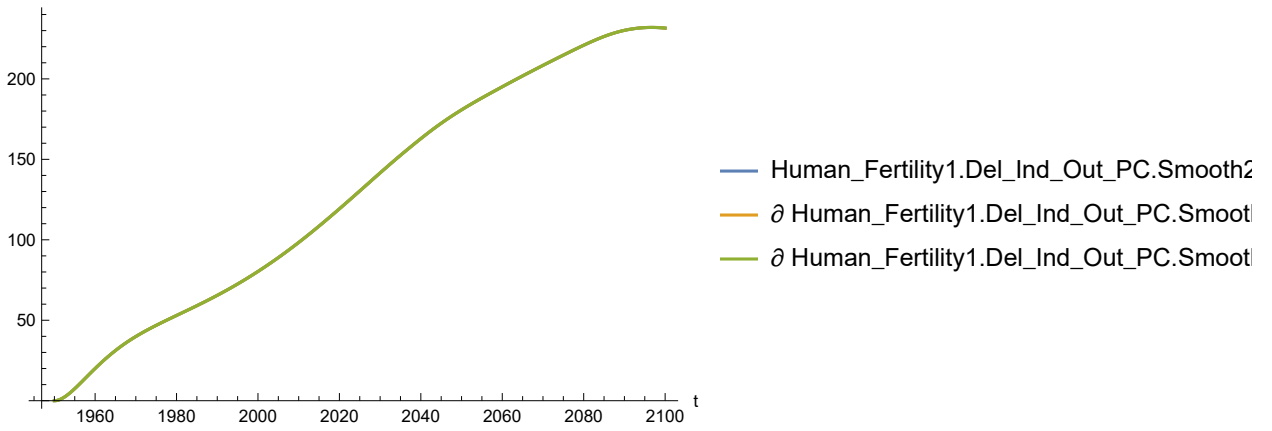
Out[100]=



In[101]:=

```
SystemModelPlot[simsensdata, {"Human_Fertility1.Del_Ind_Out_PC.Smooth2.Integrator1.y",
"Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[5]", percentvar}]
```

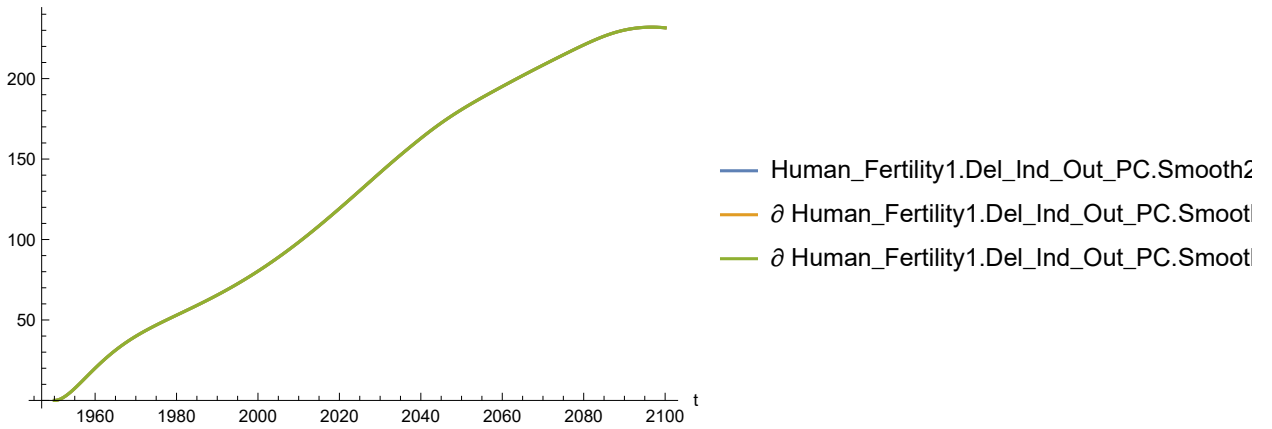
Out[101]=



In[102]:=

```
SystemModelPlot[simsensdata, {"Human_Fertility1.Del_Ind_Out_PC.Smooth2.Integrator1.y",
"Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[6]", percentvar}]
```

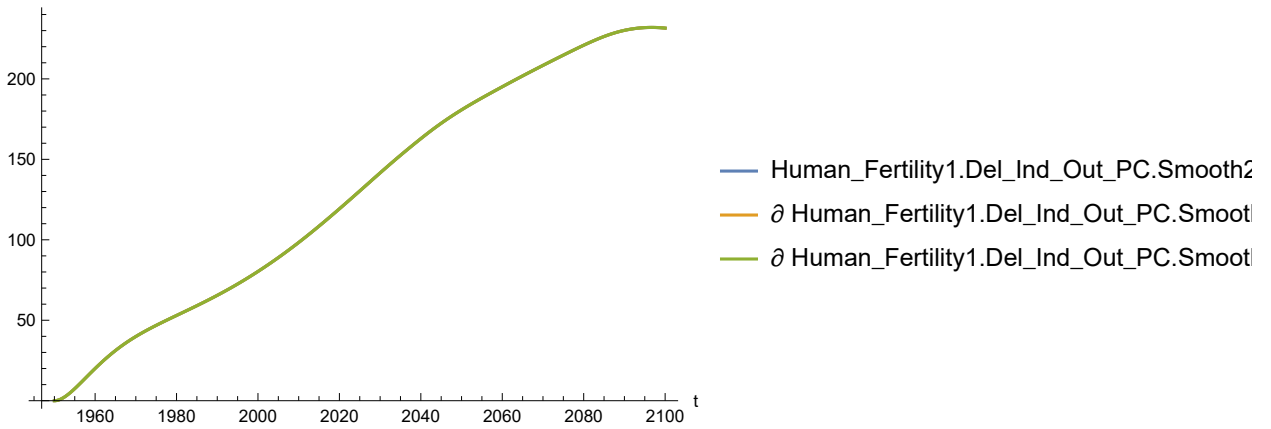
Out[102]=



In[103]:=

```
SystemModelPlot[simsensdata, {"Human_Fertility1.Del_Ind_Out_PC.Smooth2.Integrator1.y",
    "Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[7]", percentvar}]
```

Out[103]:=

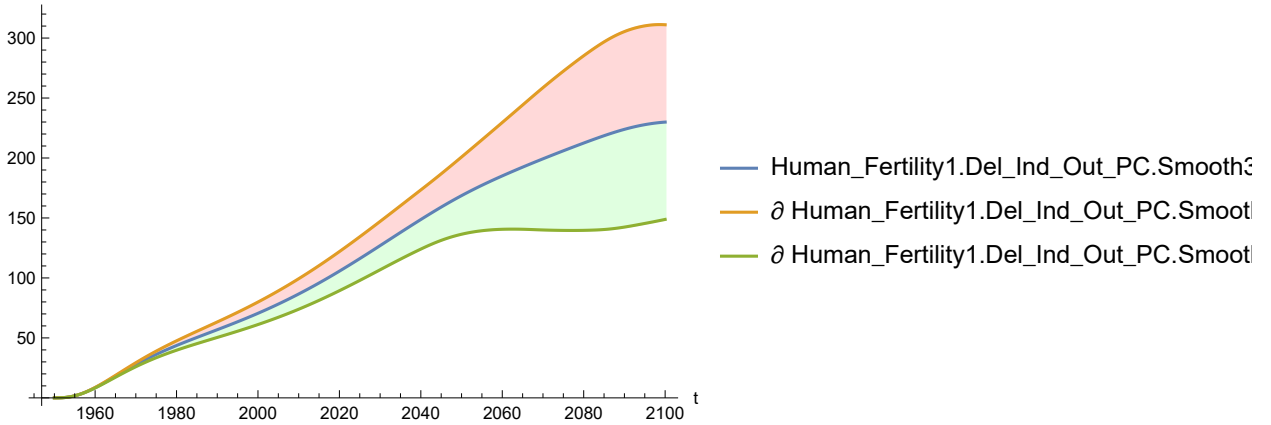


Plot the sensitivity of Human_Fertility1.Del_Ind_Out_PC.Smooth3.Integrator1.y to Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals.

In[104]:=

```
SystemModelPlot[simsensdata, {"Human_Fertility1.Del_Ind_Out_PC.Smooth3.Integrator1.y",
    "Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[1]", percentvar}]
```

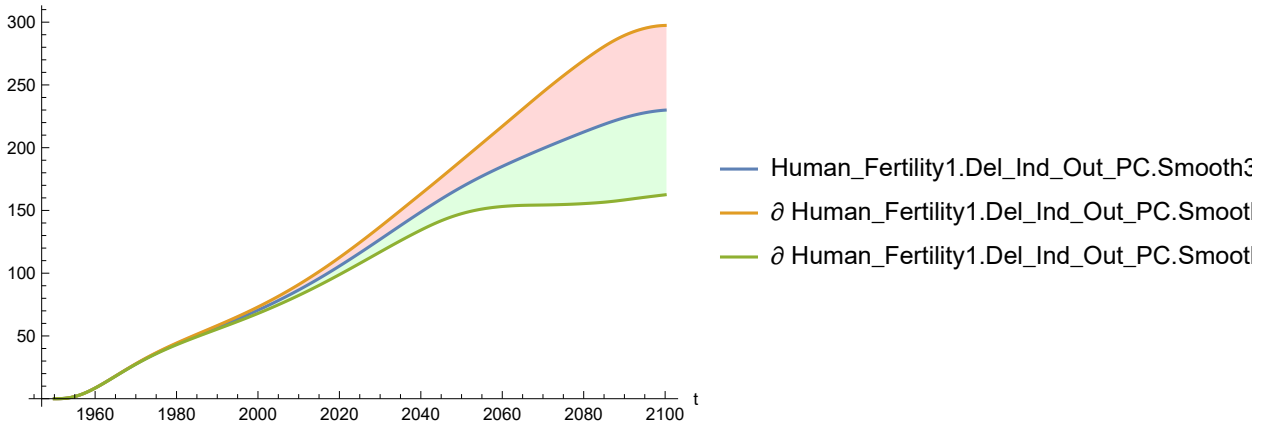
Out[104]:=



In[105]:=

```
SystemModelPlot[simsensdata, {"Human_Fertility1.Del_Ind_Out_PC.Smooth3.Integrator1.y",
"Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[2]", percentvar}]
```

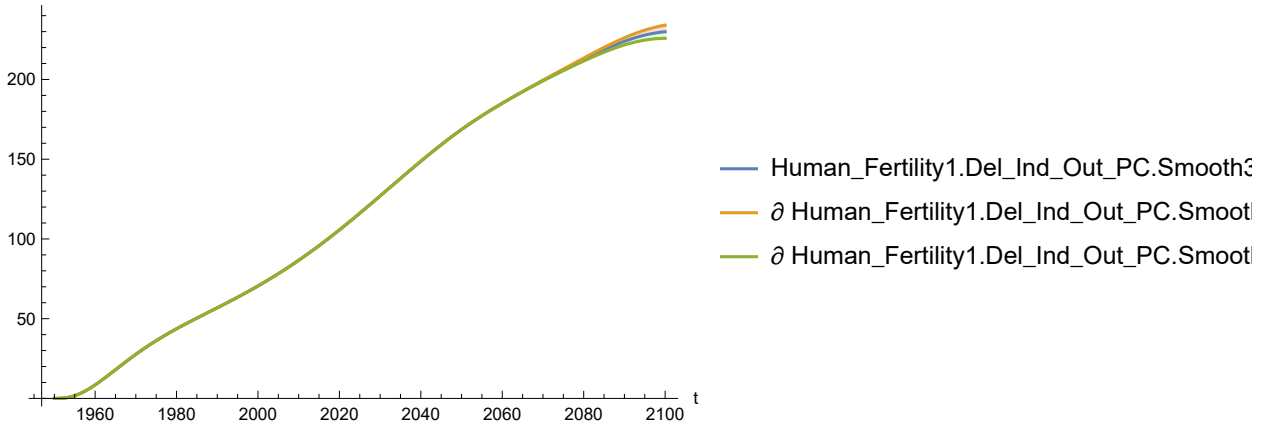
Out[105]=



In[106]:=

```
SystemModelPlot[simsensdata, {"Human_Fertility1.Del_Ind_Out_PC.Smooth3.Integrator1.y",
"Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[3]", percentvar}]
```

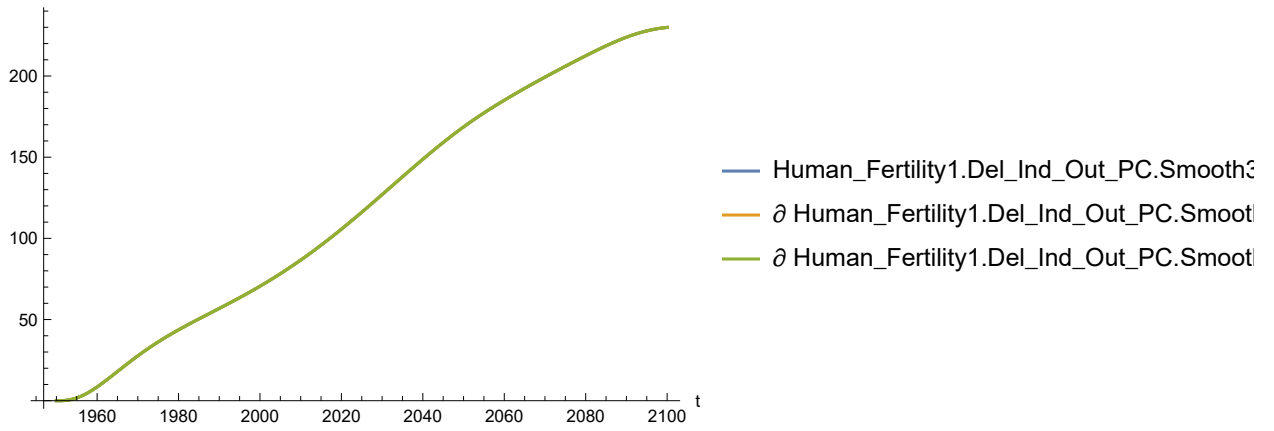
Out[106]=



In[107]:=

```
SystemModelPlot[simsensdata, {"Human_Fertility1.Del_Ind_Out_PC.Smooth3.Integrator1.y",
"Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[4]", percentvar}]
```

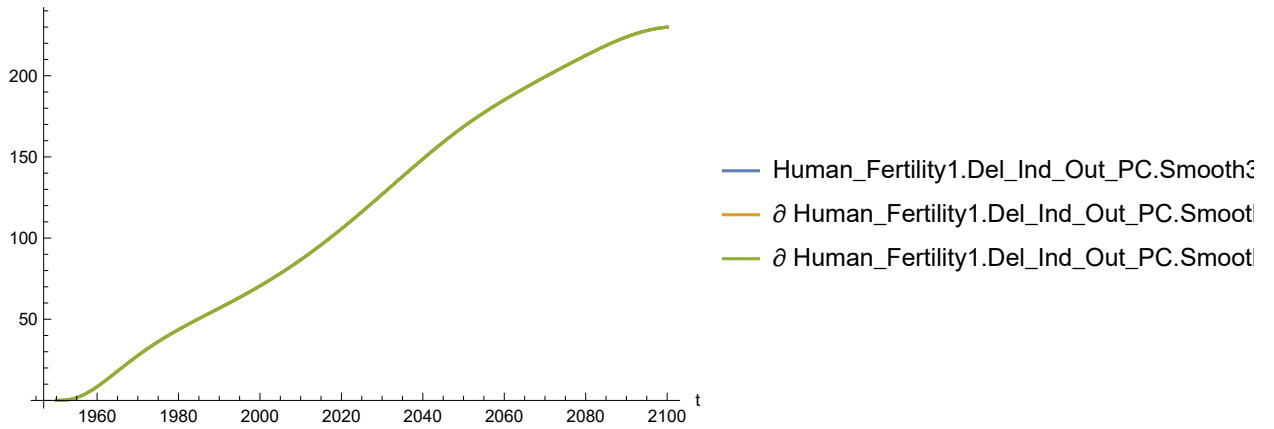
Out[107]=



In[108]:=

```
SystemModelPlot[simsensdata, {"Human_Fertility1.Del_Ind_Out_PC.Smooth3.Integrator1.y",
"Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[5]", percentvar}]
```

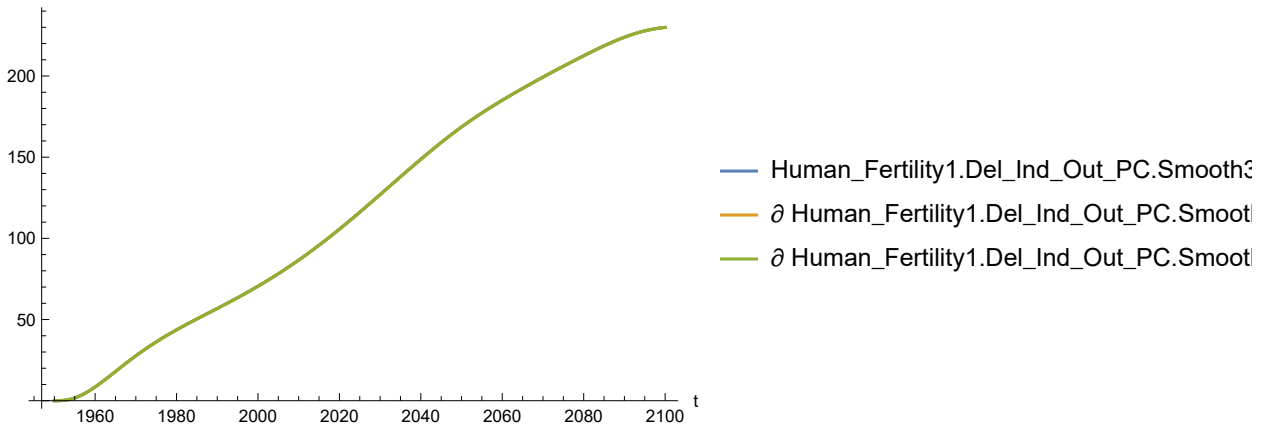
Out[108]=



In[109]:=

```
SystemModelPlot[simsensdata, {"Human_Fertility1.Del_Ind_Out_PC.Smooth3.Integrator1.y",
    "Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[6]", percentvar}]
```

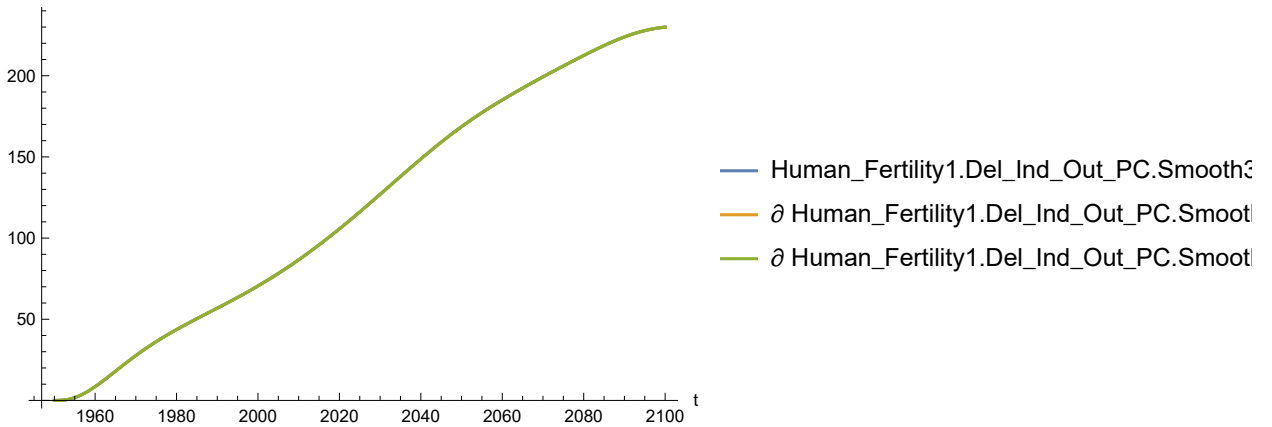
Out[109]=



In[110]:=

```
SystemModelPlot[simsensdata, {"Human_Fertility1.Del_Ind_Out_PC.Smooth3.Integrator1.y",
    "Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[7]", percentvar}]
```

Out[110]=

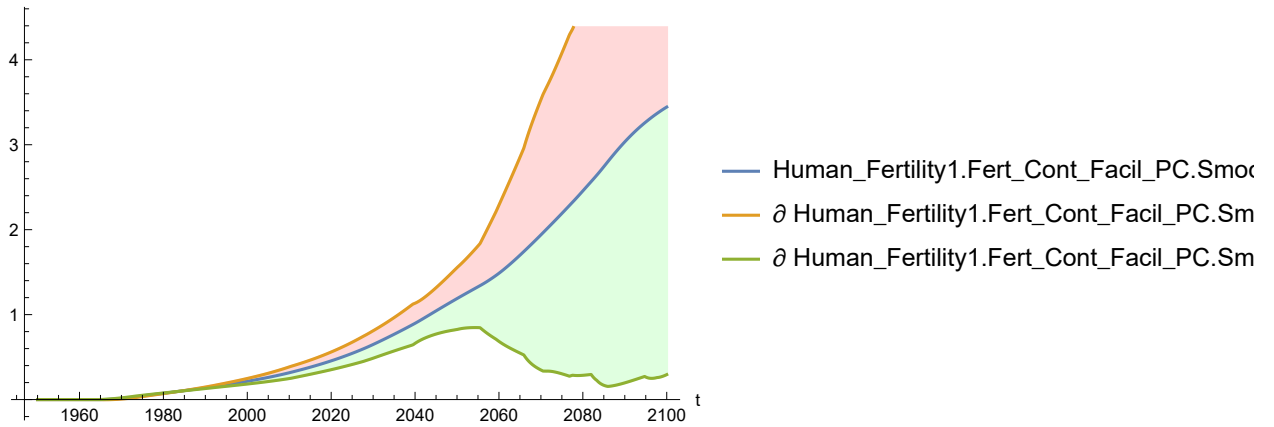


Plot the sensitivity of Human_Fertility1.Fert_Cont_Facil_PC.Smooth1.Integrator1.y to Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals.

In[111]:=

```
SystemModelPlot[simsensdata,
  {"Human_Fertility1.Fert_Cont_Facil_PC.Smooth1.Integrator1.y",
   "Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[1]", percentvar}]
```

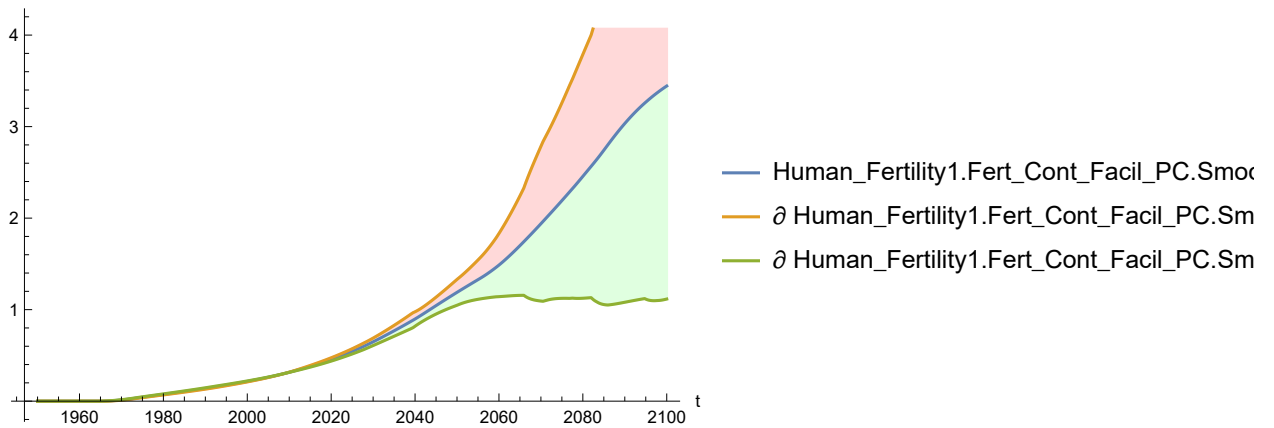
Out[111]=



In[112]:=

```
SystemModelPlot[simsensdata,
  {"Human_Fertility1.Fert_Cont_Facil_PC.Smooth1.Integrator1.y",
   "Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[2]", percentvar}]
```

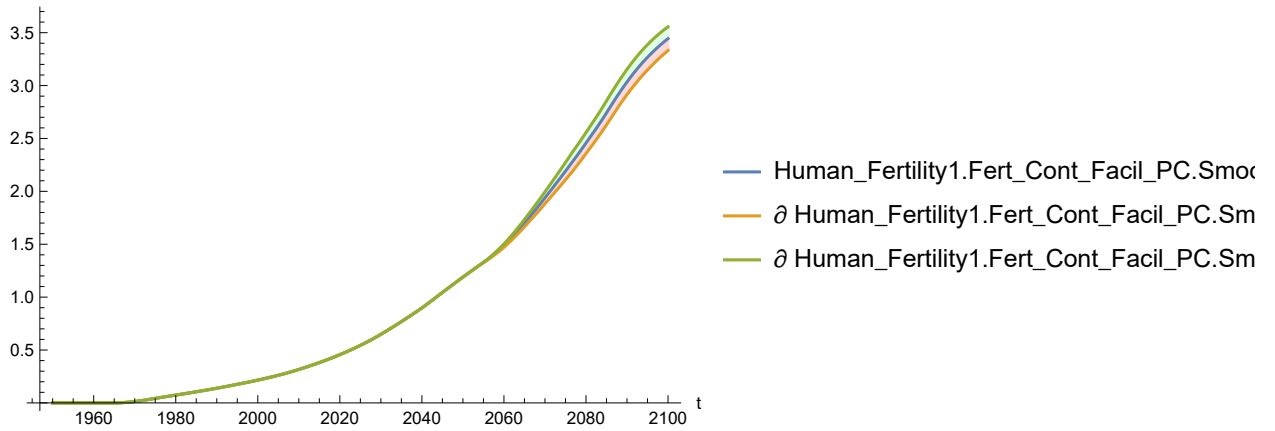
Out[112]=



In[113]:=

```
SystemModelPlot[simsensdata,
  {"Human_Fertility1.Fert_Cont_Facil_PC.Smooth1.Integrator1.y",
   "Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[3]", percentvar}]
```

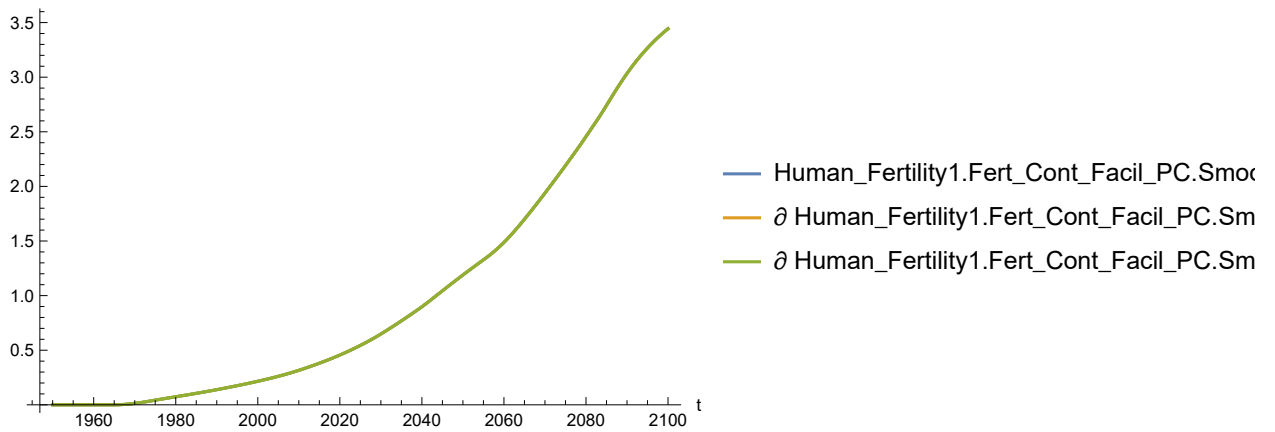
Out[113]=



In[114]:=

```
SystemModelPlot[simsensdata,
  {"Human_Fertility1.Fert_Cont_Facil_PC.Smooth1.Integrator1.y",
   "Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[4]", percentvar}]
```

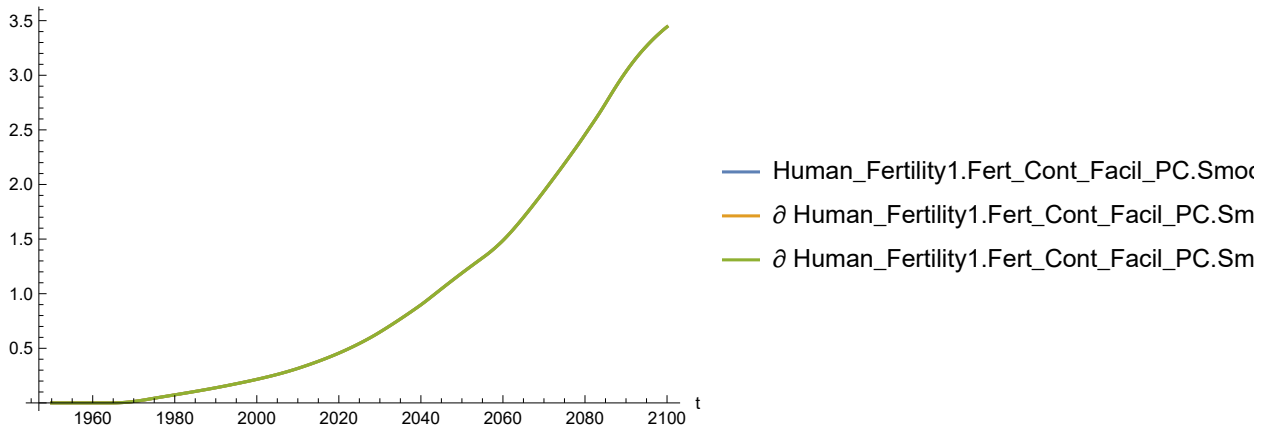
Out[114]=



In[115]:=

```
SystemModelPlot[simsensdata,
  {"Human_Fertility1.Fert_Cont_Facil_PC.Smooth1.Integrator1.y",
   "Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[5]", percentvar}]
```

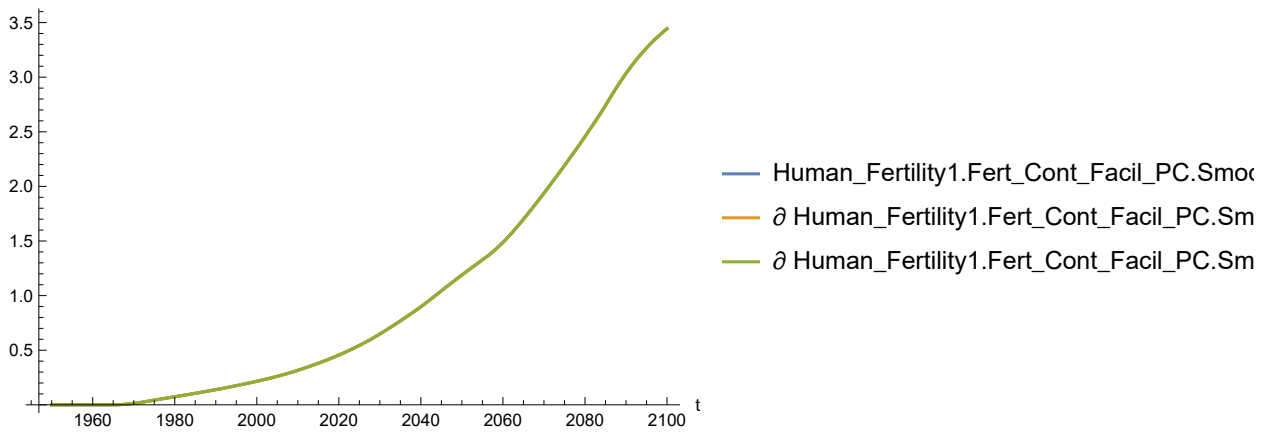
Out[115]=



In[116]:=

```
SystemModelPlot[simsensdata,
  {"Human_Fertility1.Fert_Cont_Facil_PC.Smooth1.Integrator1.y",
   "Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[6]", percentvar}]
```

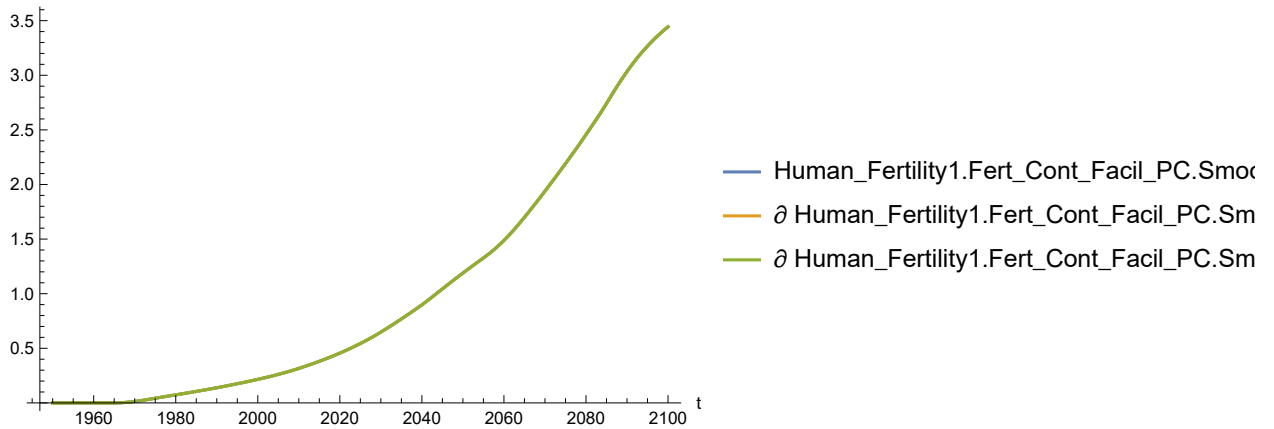
Out[116]=



In[117]:=

```
SystemModelPlot[simsensdata,
  {"Human_Fertility1.Fert_Cont_Facil_PC.Smooth1.Integrator1.y",
   "Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[7]", percentvar}]
```

Out[117]=

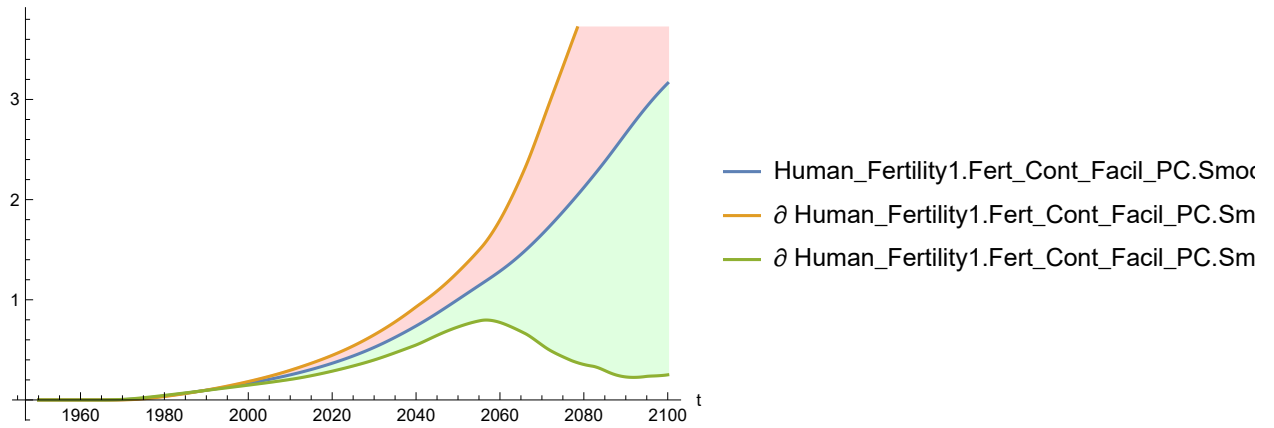


Plot the sensitivity of Human_Fertility1.Fert_Cont_Facil_PC.Smooth2.Integrator1.y to Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals.

In[118]:=

```
SystemModelPlot[simsensdata,
  {"Human_Fertility1.Fert_Cont_Facil_PC.Smooth2.Integrator1.y",
   "Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[1]", percentvar}]
```

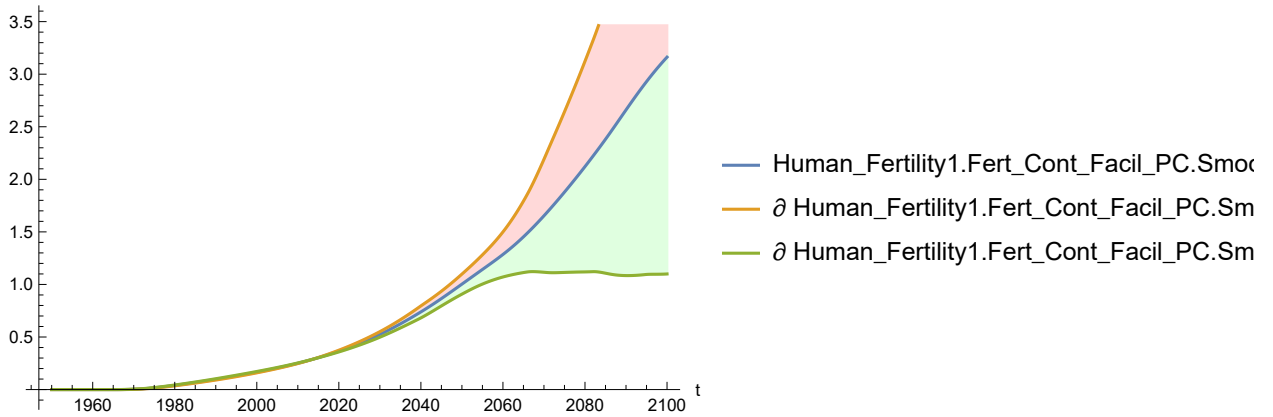
Out[118]=



In[119]:=

```
SystemModelPlot[simsensdata,
  {"Human_Fertility1.Fert_Cont_Facil_PC.Smooth2.Integrator1.y",
   "Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[2]", percentvar}]
```

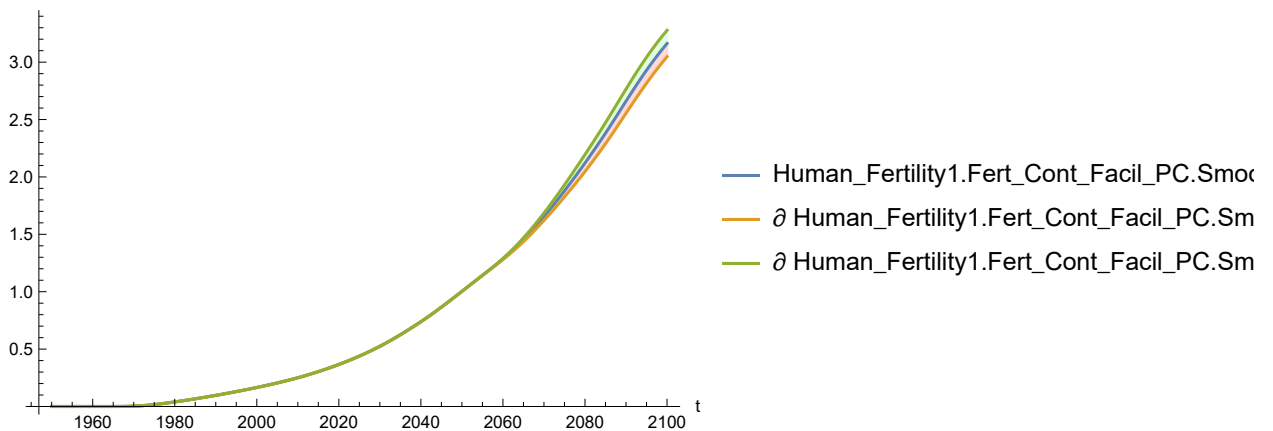
Out[119]=



In[120]:=

```
SystemModelPlot[simsensdata,
  {"Human_Fertility1.Fert_Cont_Facil_PC.Smooth2.Integrator1.y",
   "Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[3]", percentvar}]
```

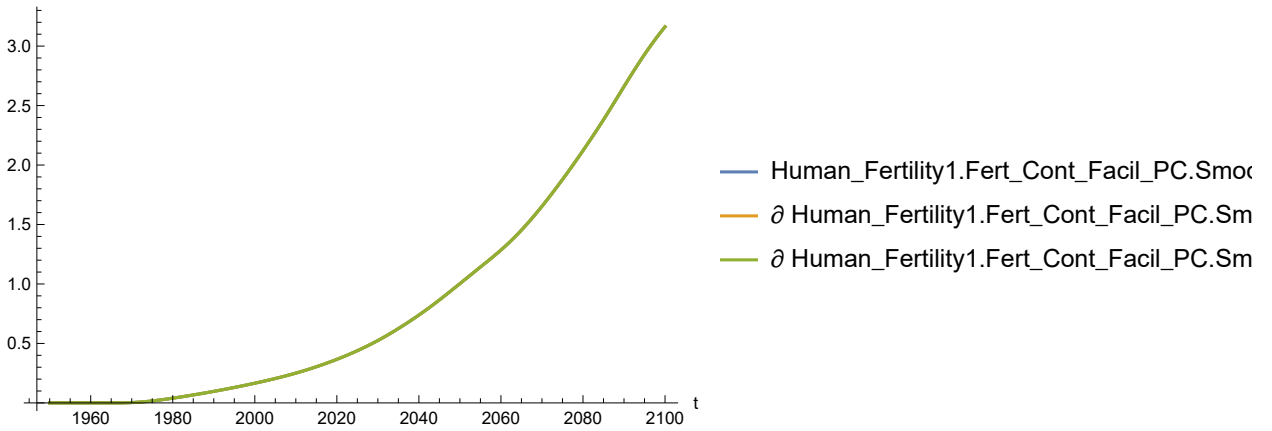
Out[120]=



In[121]:=

```
SystemModelPlot[simsensdata,
  {"Human_Fertility1.Fert_Cont_Facil_PC.Smooth2.Integrator1.y",
   "Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[4]", percentvar}]
```

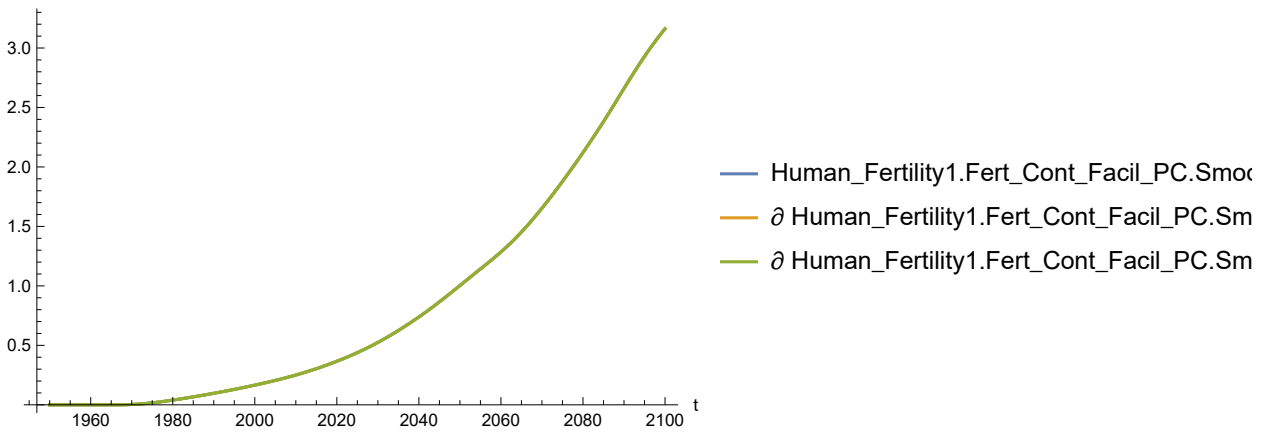
Out[121]=



In[122]:=

```
SystemModelPlot[simsensdata,
  {"Human_Fertility1.Fert_Cont_Facil_PC.Smooth2.Integrator1.y",
   "Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[5]", percentvar}]
```

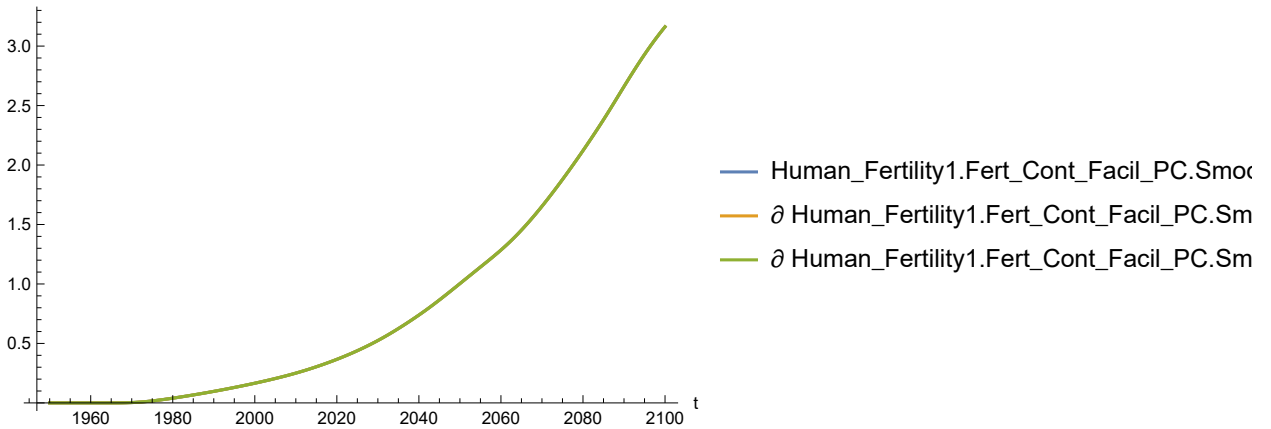
Out[122]=



In[123]:=

```
SystemModelPlot[simsensdata,
  {"Human_Fertility1.Fert_Cont_Facil_PC.Smooth2.Integrator1.y",
   "Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[6]", percentvar}]
```

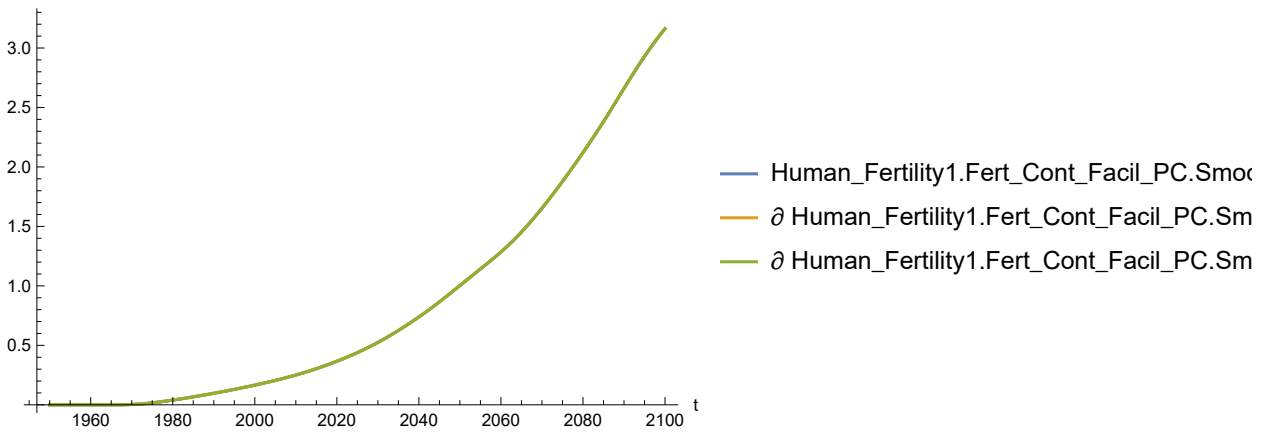
Out[123]=



In[124]:=

```
SystemModelPlot[simsensdata,
  {"Human_Fertility1.Fert_Cont_Facil_PC.Smooth2.Integrator1.y",
   "Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[7]", percentvar}]
```

Out[124]=

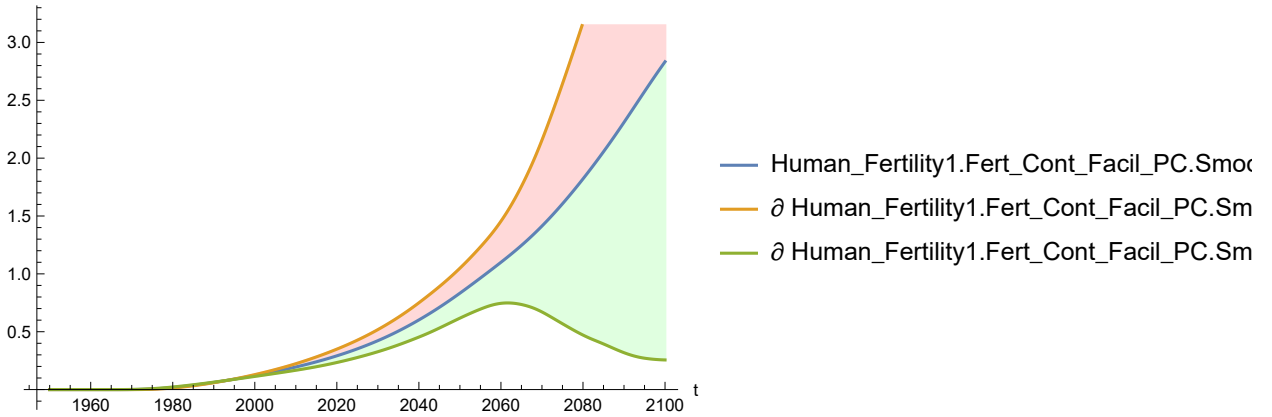


Plot the sensitivity of Human_Fertility1.Fert_Cont_Facil_PC.Smooth3.Integrator1.y to Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals.

In[125]:=

```
SystemModelPlot[simsensdata,
  {"Human_Fertility1.Fert_Cont_Facil_PC.Smooth3.Integrator1.y",
   "Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[1]", percentvar}]
```

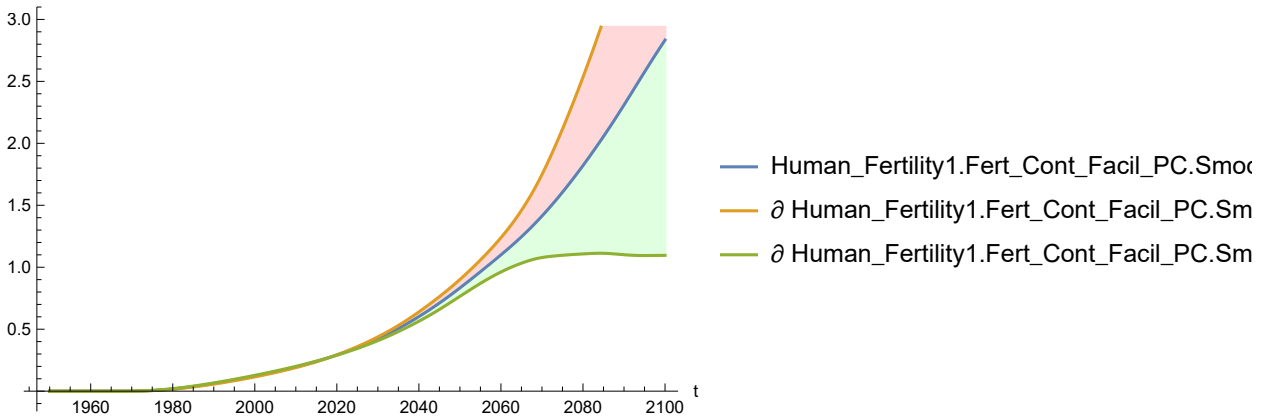
Out[125]=



In[126]:=

```
SystemModelPlot[simsensdata,
  {"Human_Fertility1.Fert_Cont_Facil_PC.Smooth3.Integrator1.y",
   "Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[2]", percentvar}]
```

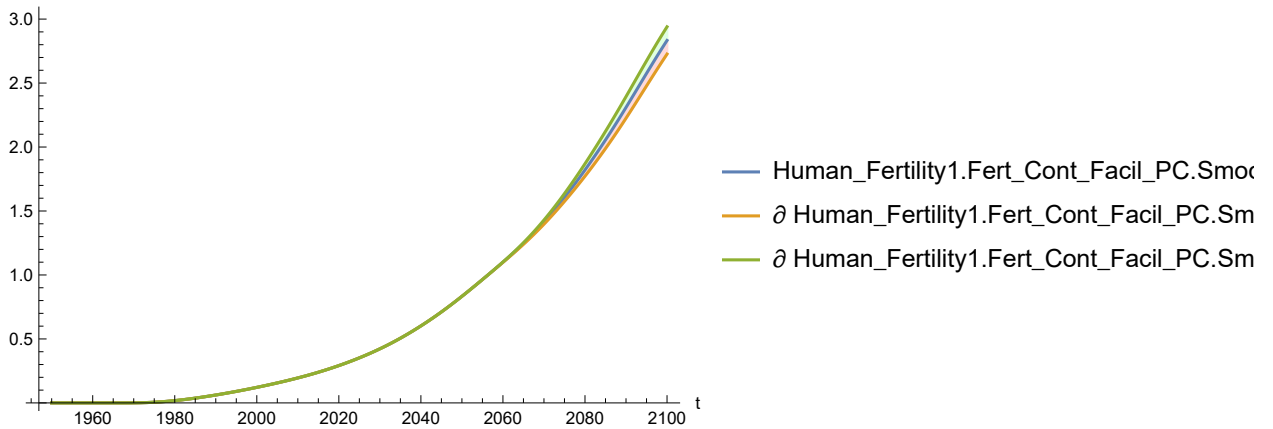
Out[126]=



In[127]:=

```
SystemModelPlot[simsensdata,
  {"Human_Fertility1.Fert_Cont_Facil_PC.Smooth3.Integrator1.y",
   "Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[3]", percentvar}]
```

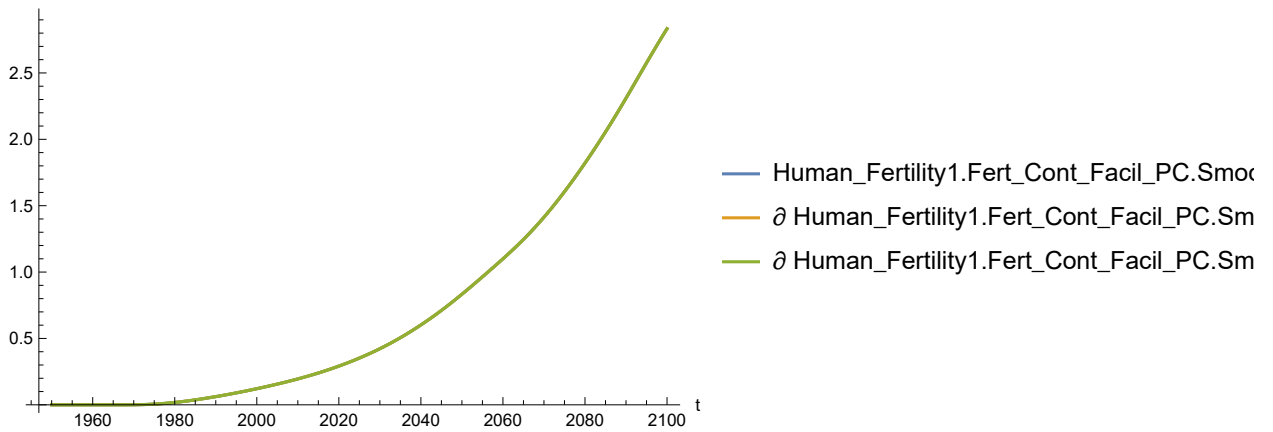
Out[127]=



In[128]:=

```
SystemModelPlot[simsensdata,
  {"Human_Fertility1.Fert_Cont_Facil_PC.Smooth3.Integrator1.y",
   "Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[4]", percentvar}]
```

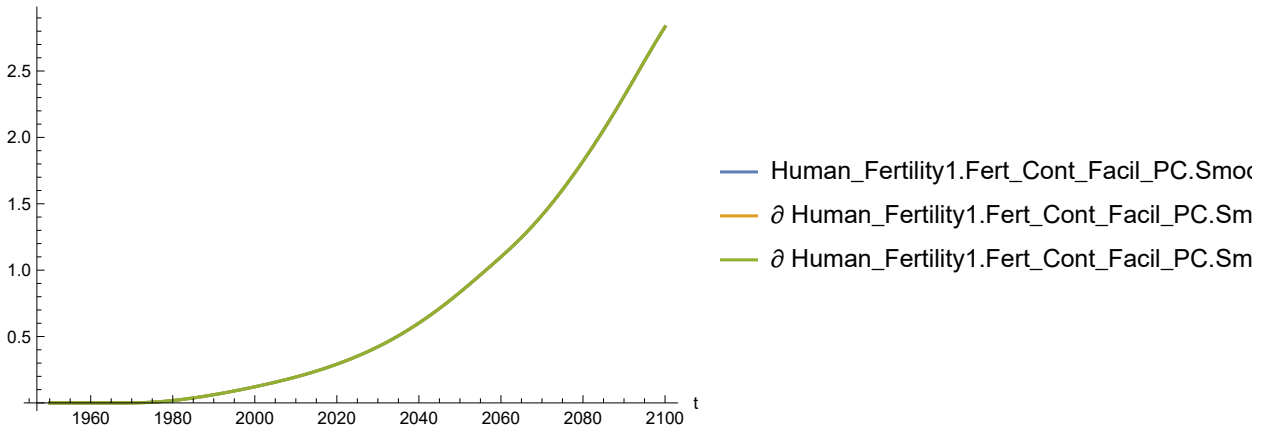
Out[128]=



In[129]:=

```
SystemModelPlot[simsensdata,
  {"Human_Fertility1.Fert_Cont_Facil_PC.Smooth3.Integrator1.y",
   "Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[5]", percentvar}]
```

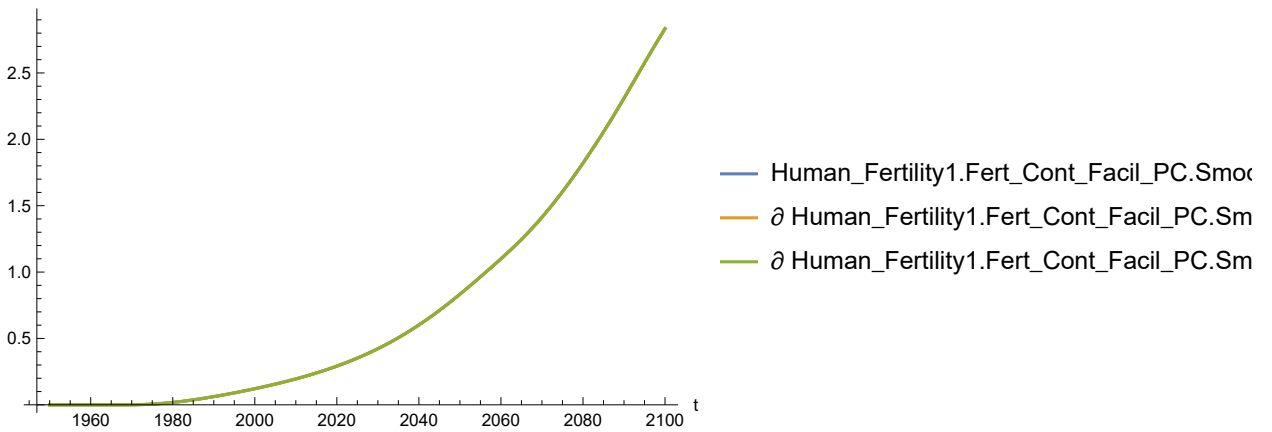
Out[129]=



In[130]:=

```
SystemModelPlot[simsensdata,
  {"Human_Fertility1.Fert_Cont_Facil_PC.Smooth3.Integrator1.y",
   "Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[6]", percentvar}]
```

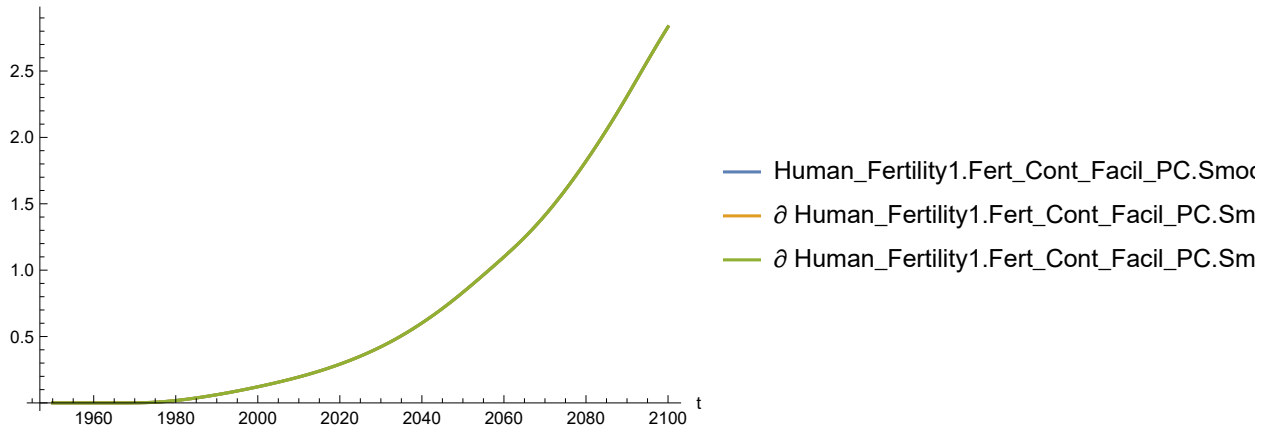
Out[130]=



In[131]:=

```
SystemModelPlot[simsensdata,
  {"Human_Fertility1.Fert_Cont_Facil_PC.Smooth3.Integrator1.y",
   "Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[7]", percentvar}]
```

Out[131]=

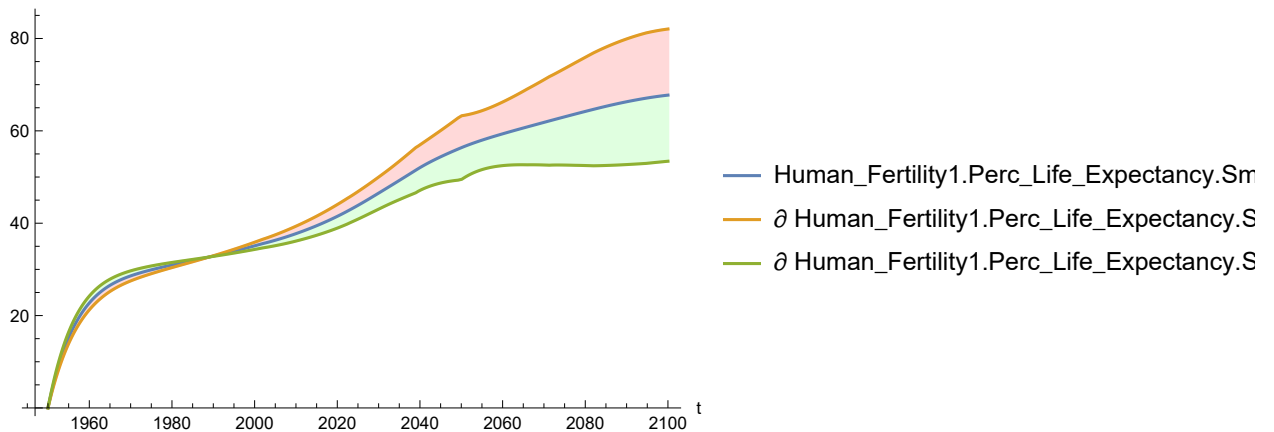


Plot the sensitivity of Human_Fertility1.Perc_Life_Expectancy.Smooth1.Integrator1.y to Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals.

In[132]:=

```
SystemModelPlot[simsensdata,
  {"Human_Fertility1.Perc_Life_Expectancy.Smooth1.Integrator1.y",
   "Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[1]", percentvar}]
```

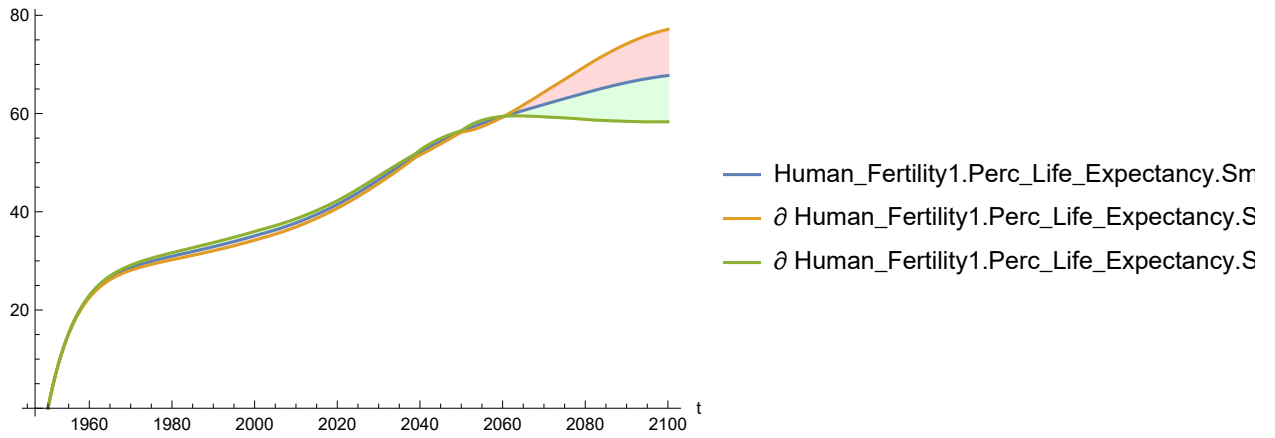
Out[132]=



In[133]:=

```
SystemModelPlot[simsensdata,
  {"Human_Fertility1.Perc_Life_Expectancy.Smooth1.Integrator1.y",
   "Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[2]", percentvar}]
```

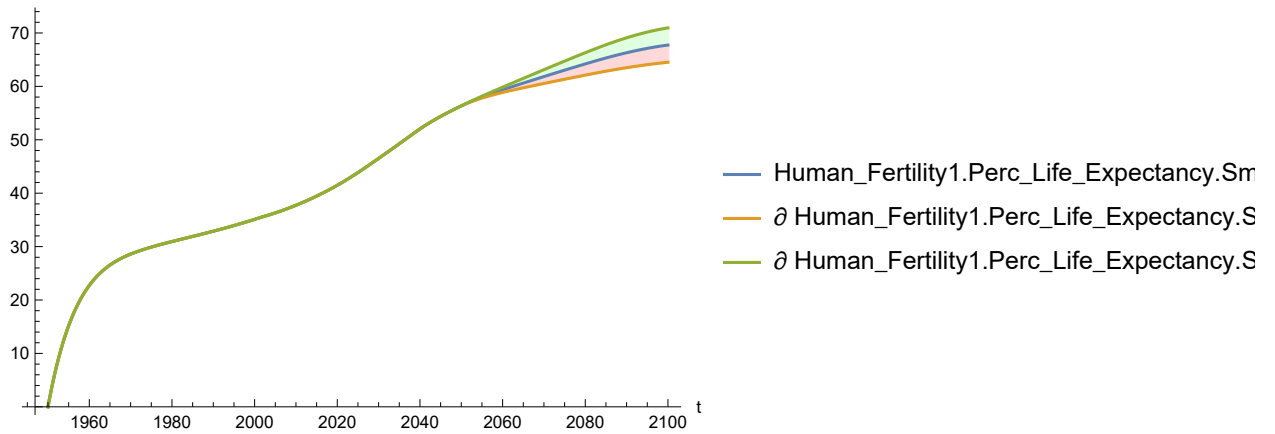
Out[133]=



In[134]:=

```
SystemModelPlot[simsensdata,
  {"Human_Fertility1.Perc_Life_Expectancy.Smooth1.Integrator1.y",
   "Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[3]", percentvar}]
```

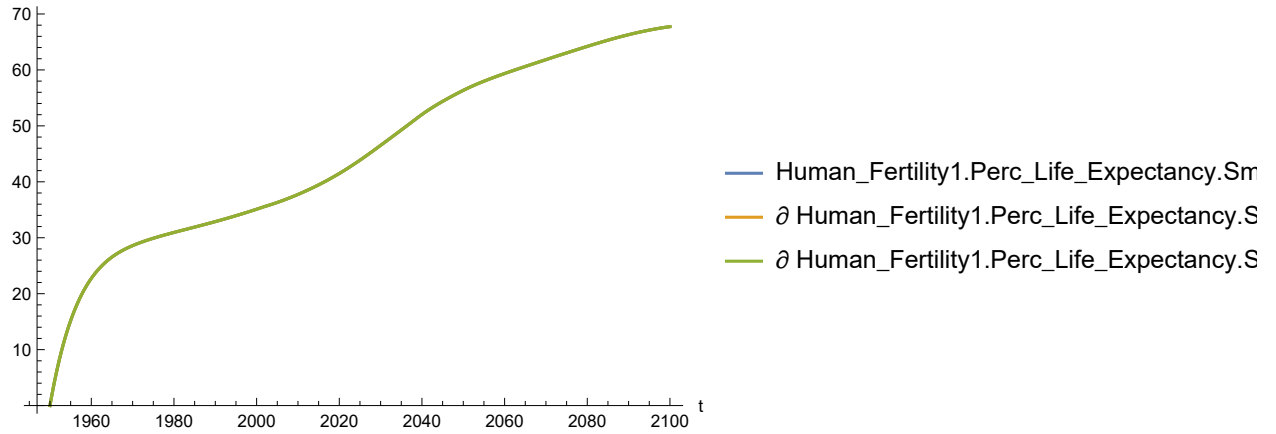
Out[134]=



In[135]:=

```
SystemModelPlot[simsensdata,
  {"Human_Fertility1.Perc_Life_Expectancy.Smooth1.Integrator1.y",
   "Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[4]", percentvar}]
```

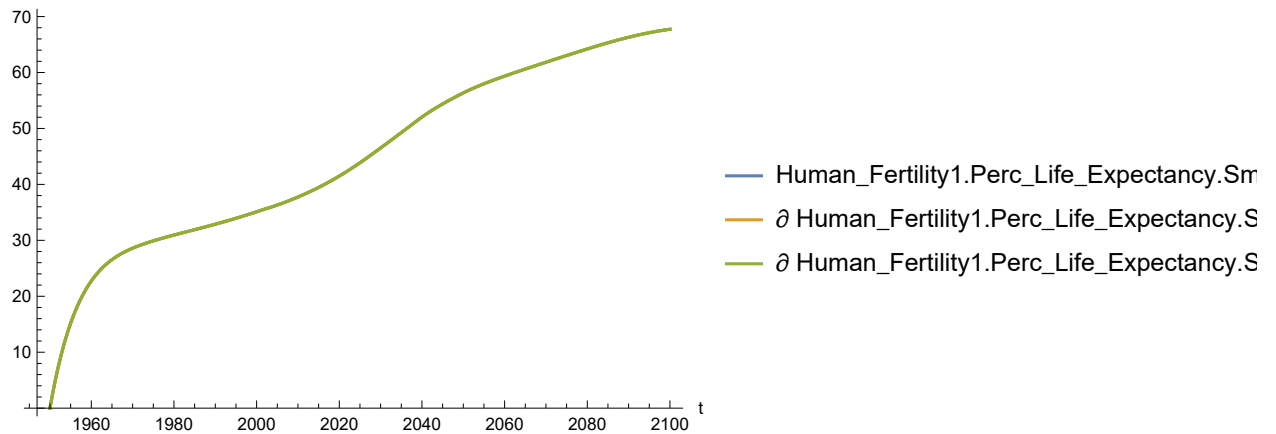
Out[135]=



In[136]:=

```
SystemModelPlot[simsensdata,
  {"Human_Fertility1.Perc_Life_Expectancy.Smooth1.Integrator1.y",
   "Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[5]", percentvar}]
```

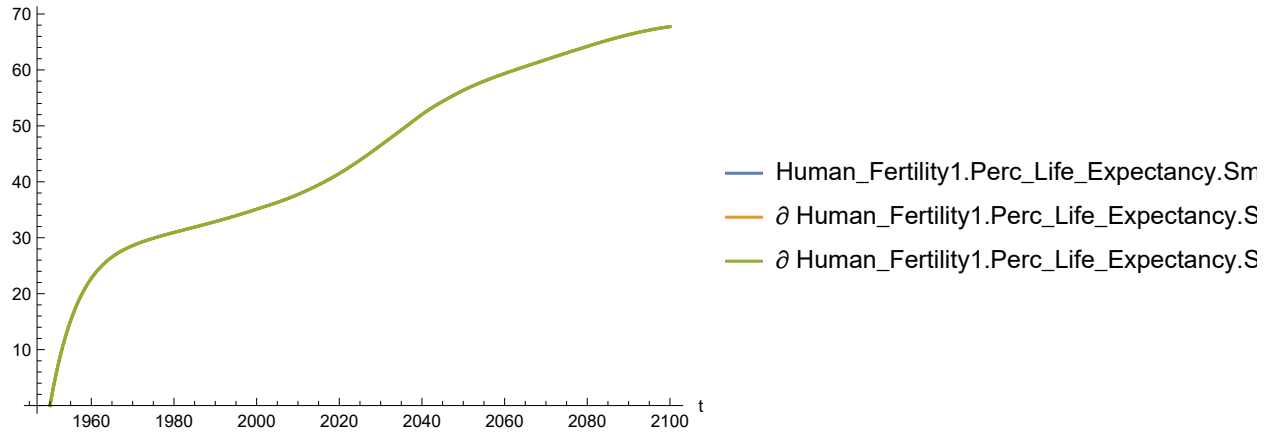
Out[136]=



In[137]:=

```
SystemModelPlot[simsensdata,
  {"Human_Fertility1.Perc_Life_Expectancy.Smooth1.Integrator1.y",
   "Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[6]", percentvar}]
```

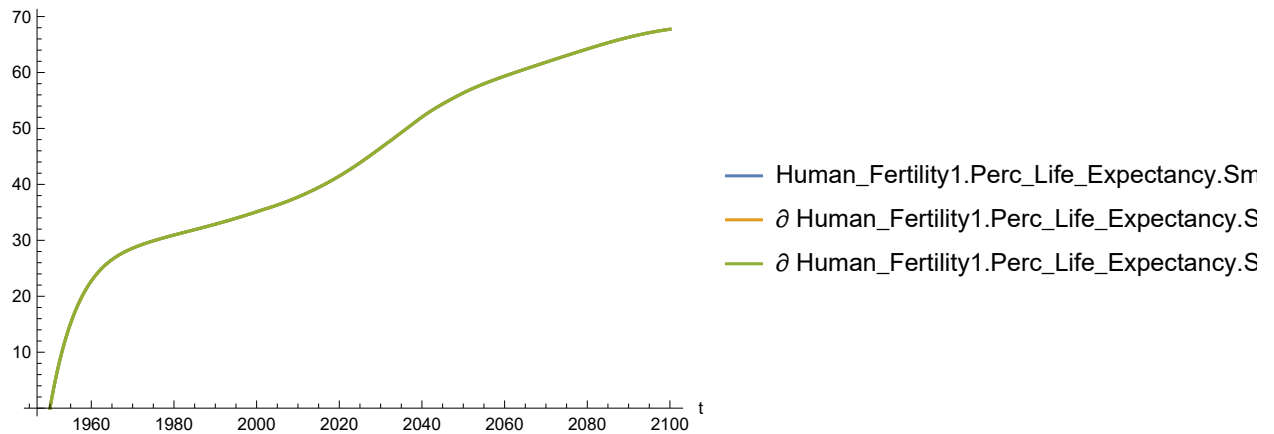
Out[137]=



In[138]:=

```
SystemModelPlot[simsensdata,
  {"Human_Fertility1.Perc_Life_Expectancy.Smooth1.Integrator1.y",
   "Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[7]", percentvar}]
```

Out[138]=

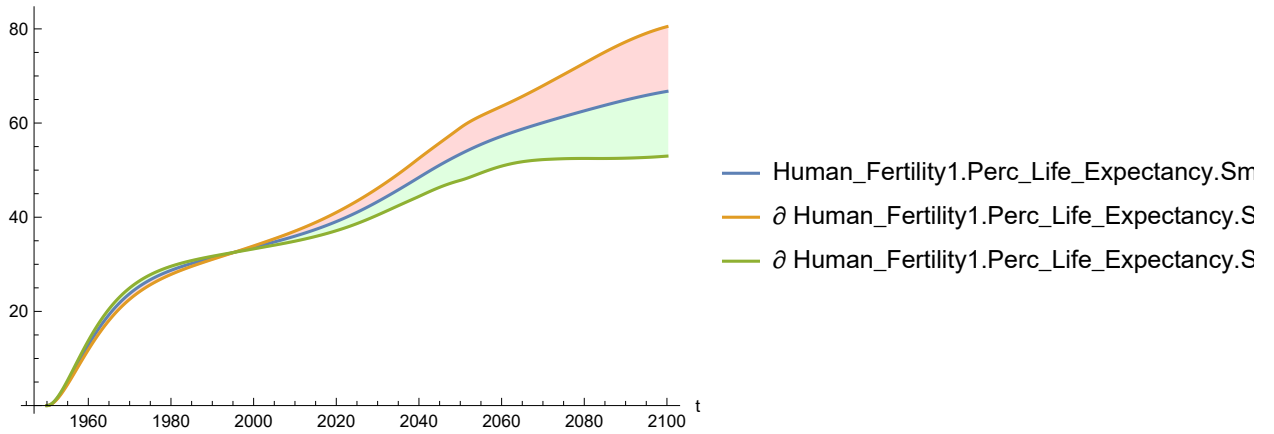


Plot the sensitivity of Human_Fertility1.Perc_Life_Expectancy.Smooth2.Integrator1.y to Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals.

In[139]:=

```
SystemModelPlot[simsensdata,
  {"Human_Fertility1.Perc_Life_Expectancy.Smooth2.Integrator1.y",
   "Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[1]", percentvar}]
```

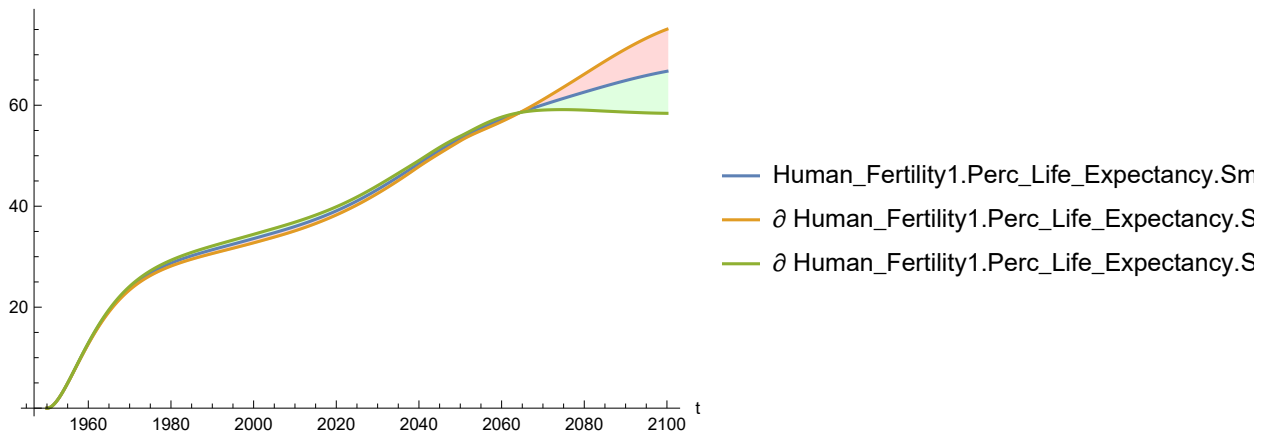
Out[139]=



In[140]:=

```
SystemModelPlot[simsensdata,
  {"Human_Fertility1.Perc_Life_Expectancy.Smooth2.Integrator1.y",
   "Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[2]", percentvar}]
```

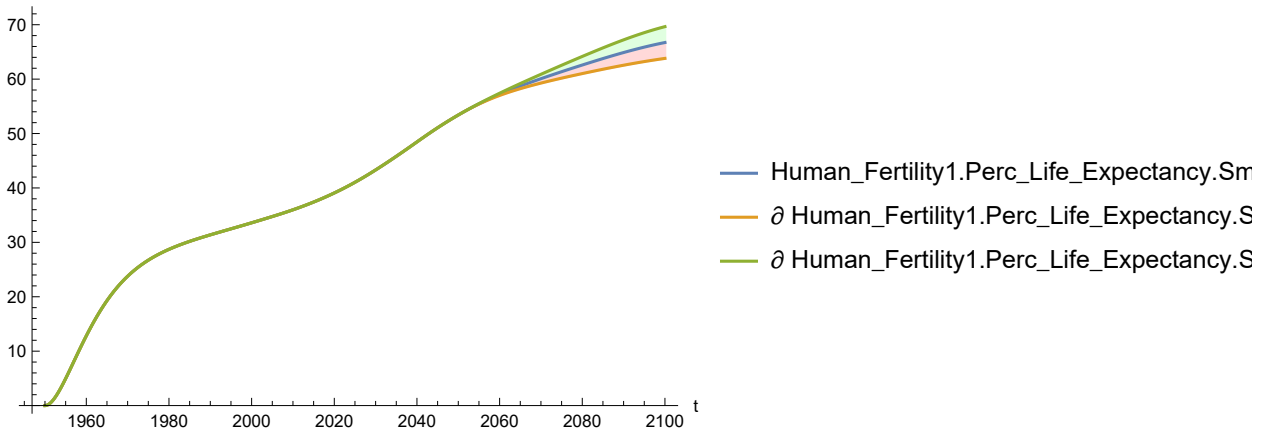
Out[140]=



In[141]:=

```
SystemModelPlot[simsensdata,
  {"Human_Fertility1.Perc_Life_Expectancy.Smooth2.Integrator1.y",
   "Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[3]", percentvar}]
```

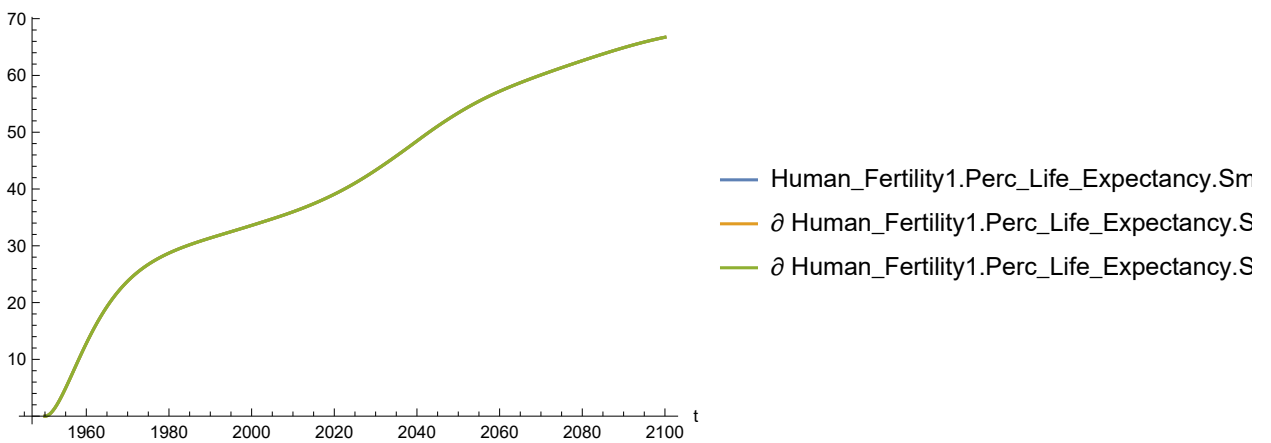
Out[141]=



In[142]:=

```
SystemModelPlot[simsensdata,
  {"Human_Fertility1.Perc_Life_Expectancy.Smooth2.Integrator1.y",
   "Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[4]", percentvar}]
```

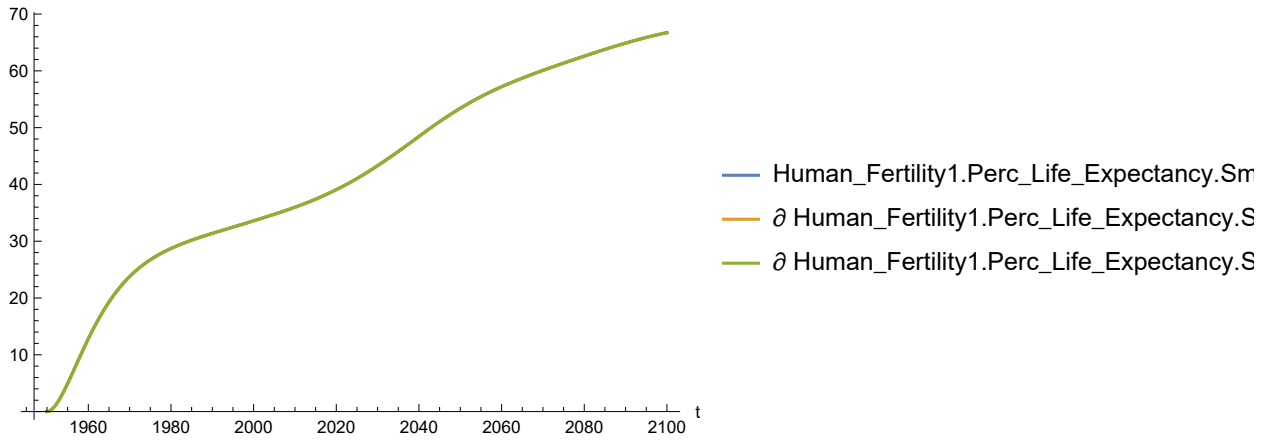
Out[142]=



In[143]:=

```
SystemModelPlot[simsensdata,
  {"Human_Fertility1.Perc_Life_Expectancy.Smooth2.Integrator1.y",
   "Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[5]", percentvar}]
```

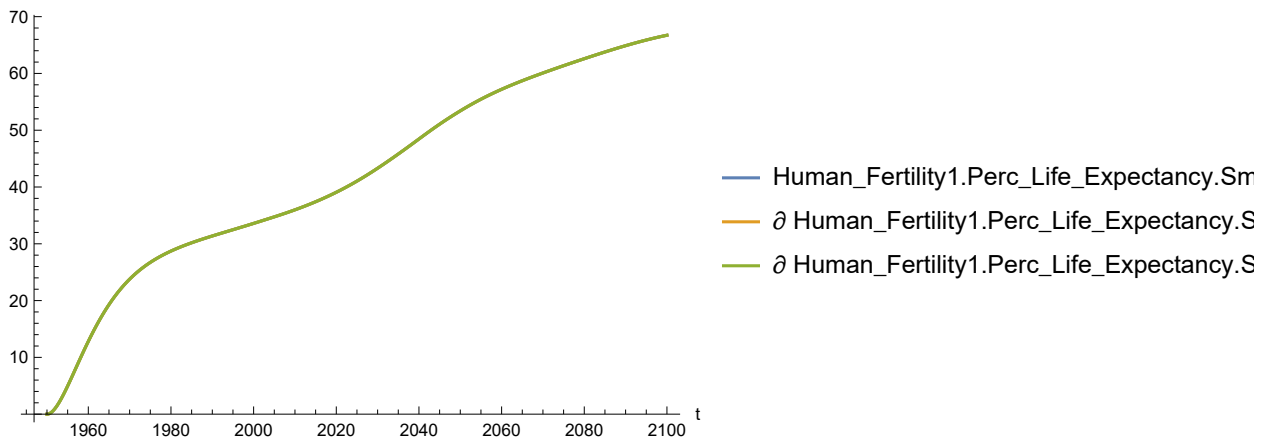
Out[143]=



In[144]:=

```
SystemModelPlot[simsensdata,
  {"Human_Fertility1.Perc_Life_Expectancy.Smooth2.Integrator1.y",
   "Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[6]", percentvar}]
```

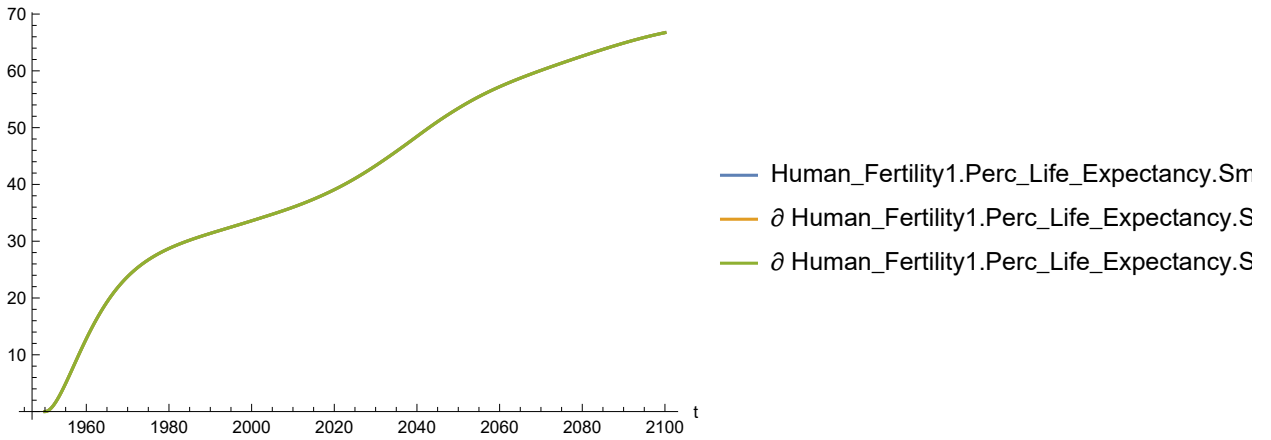
Out[144]=



In[145]:=

```
SystemModelPlot[simsensdata,
  {"Human_Fertility1.Perc_Life_Expectancy.Smooth2.Integrator1.y",
   "Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[7]", percentvar}]
```

Out[145]=

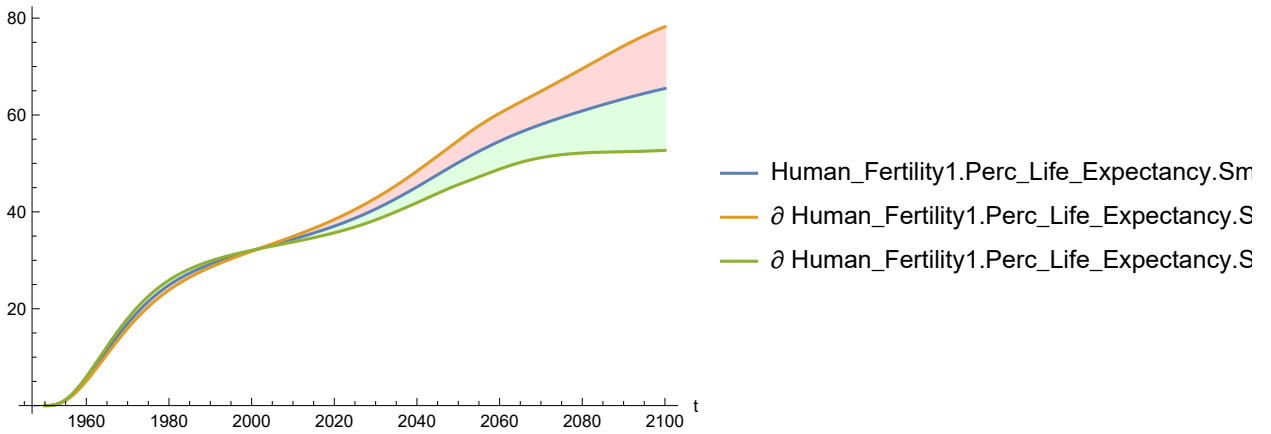


Plot the sensitivity of Human_Fertility1.Perc_Life_Expectancy.Smooth3.Integrator1.y to Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals.

In[146]:=

```
SystemModelPlot[simsensdata,
  {"Human_Fertility1.Perc_Life_Expectancy.Smooth3.Integrator1.y",
   "Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[1]", percentvar}]
```

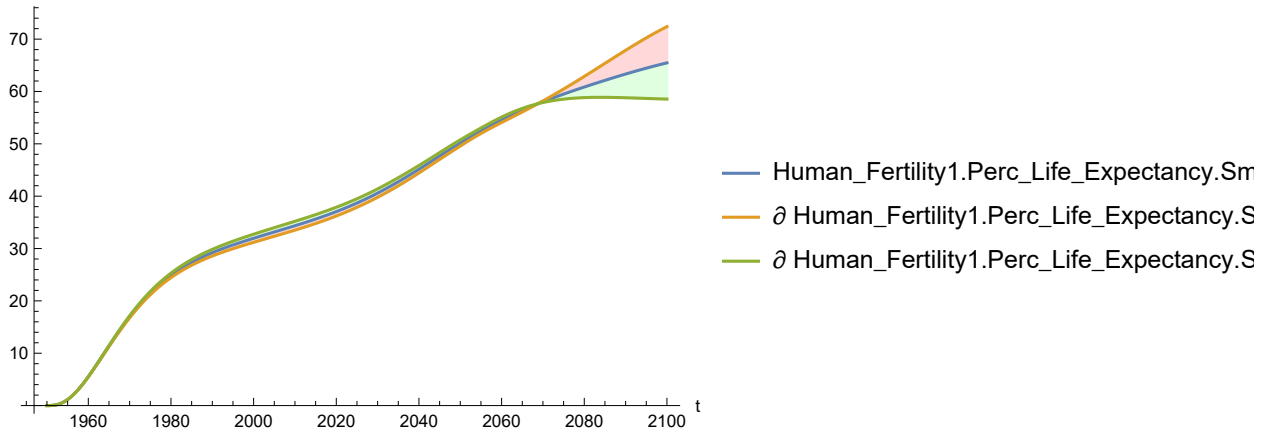
Out[146]=



In[147]:=

```
SystemModelPlot[simsensdata,
  {"Human_Fertility1.Perc_Life_Expectancy.Smooth3.Integrator1.y",
   "Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[2]", percentvar}]
```

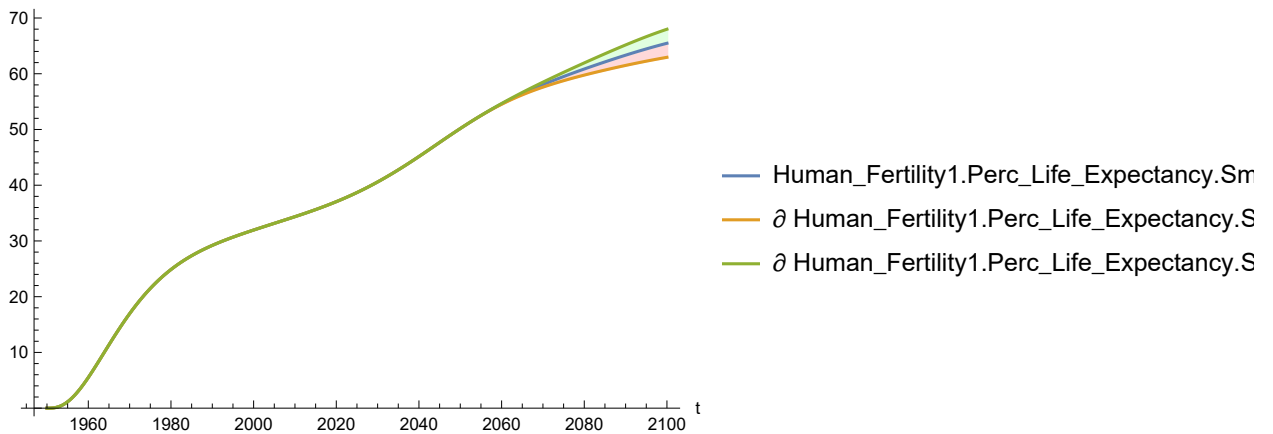
Out[147]=



In[148]:=

```
SystemModelPlot[simsensdata,
  {"Human_Fertility1.Perc_Life_Expectancy.Smooth3.Integrator1.y",
   "Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[3]", percentvar}]
```

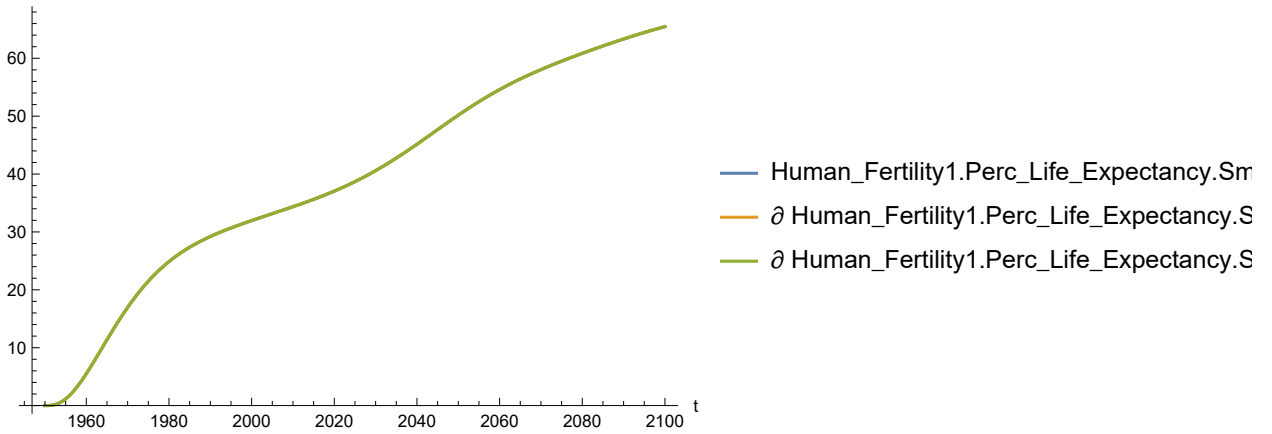
Out[148]=



In[149]:=

```
SystemModelPlot[simsensdata,
  {"Human_Fertility1.Perc_Life_Expectancy.Smooth3.Integrator1.y",
   "Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[4]", percentvar}]
```

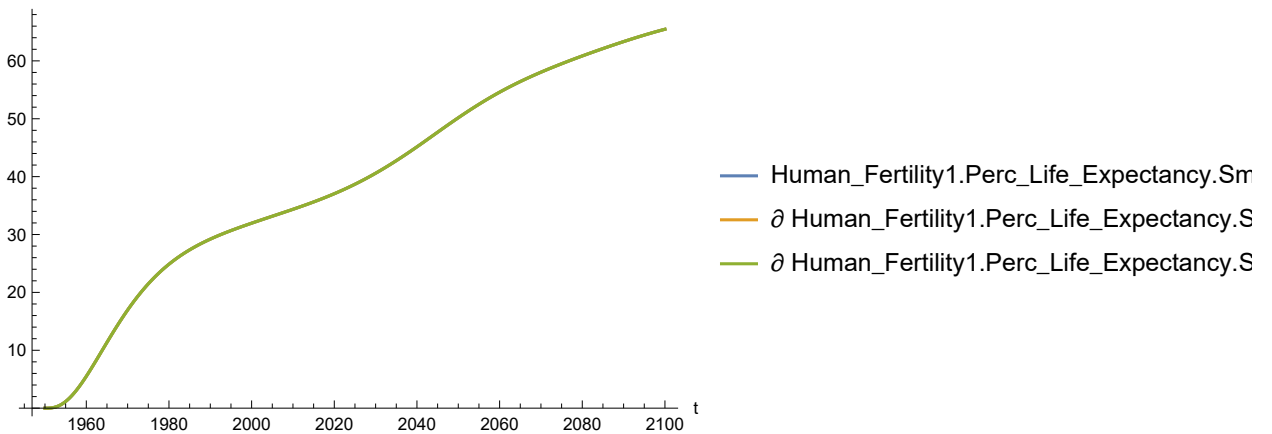
Out[149]=



In[150]:=

```
SystemModelPlot[simsensdata,
  {"Human_Fertility1.Perc_Life_Expectancy.Smooth3.Integrator1.y",
   "Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[5]", percentvar}]
```

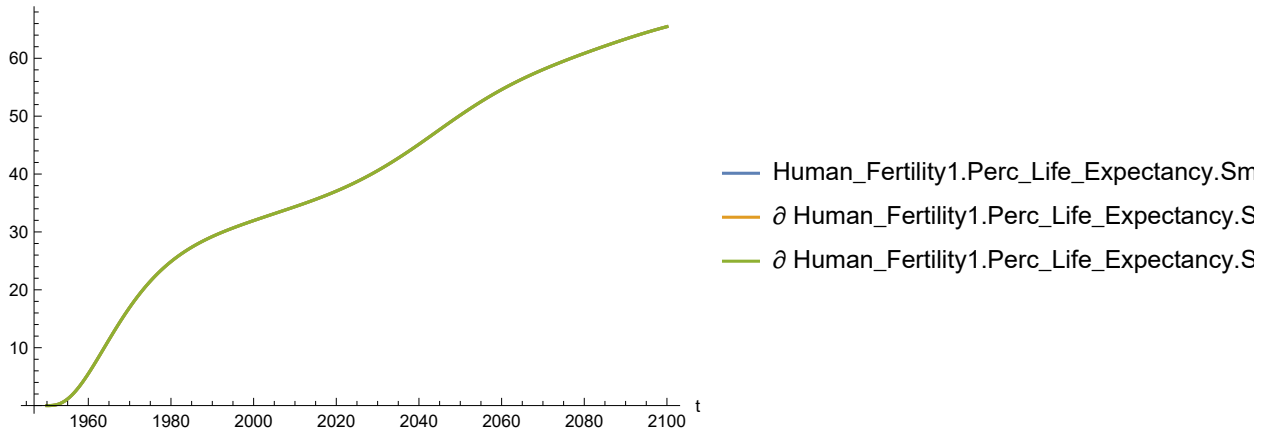
Out[150]=



In[151]:=

```
SystemModelPlot[simsensdata,
  {"Human_Fertility1.Perc_Life_Expectancy.Smooth3.Integrator1.y",
   "Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[6]", percentvar}]
```

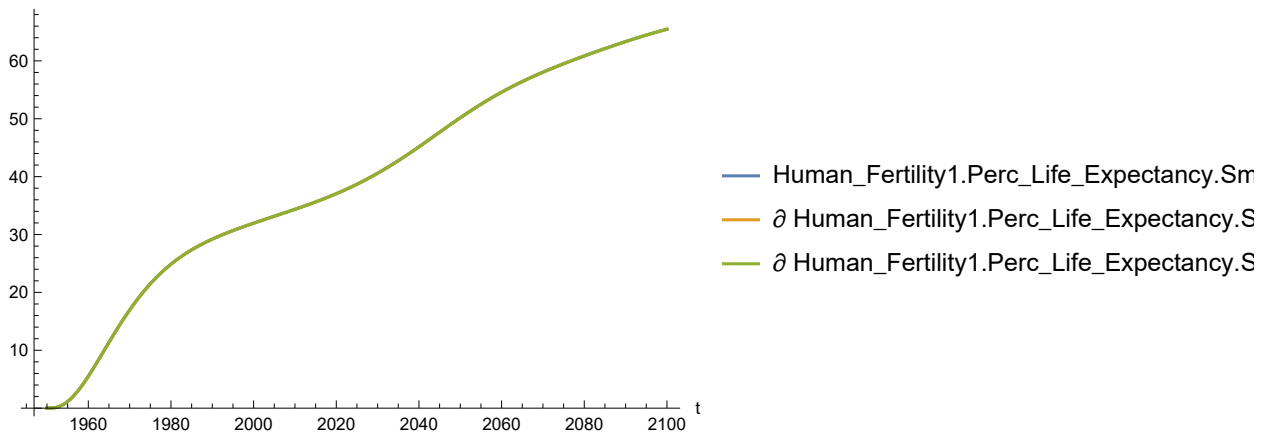
Out[151]=



In[152]:=

```
SystemModelPlot[simsensdata,
  {"Human_Fertility1.Perc_Life_Expectancy.Smooth3.Integrator1.y",
   "Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[7]", percentvar}]
```

Out[152]=

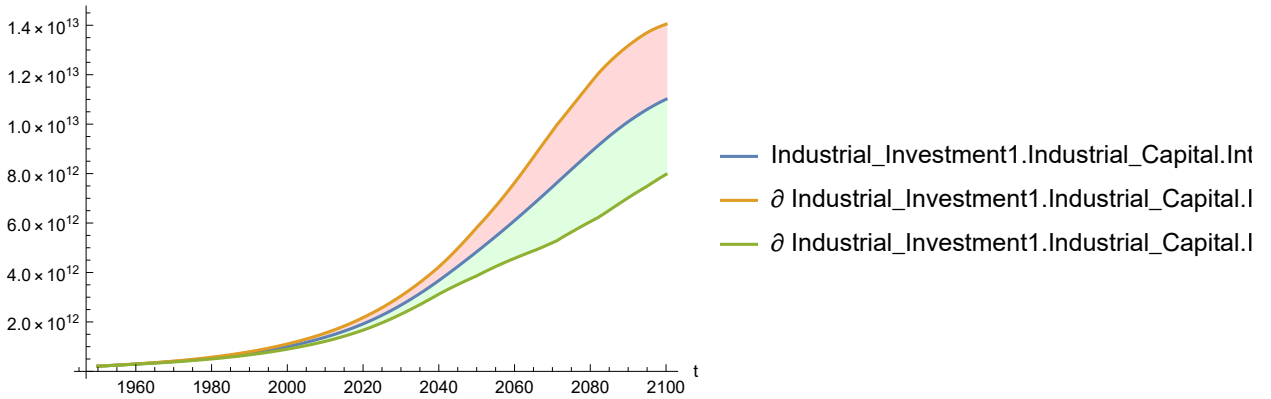


Plot the sensitivity of Industrial_Investment1.Industrial_Capital.Integrator1.y to Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals.

In[153]:=

```
SystemModelPlot[simsensdata, {"Industrial_Investment1.Industrial_Capital.Integrator1.y",
"Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[1]", percentvar}]
```

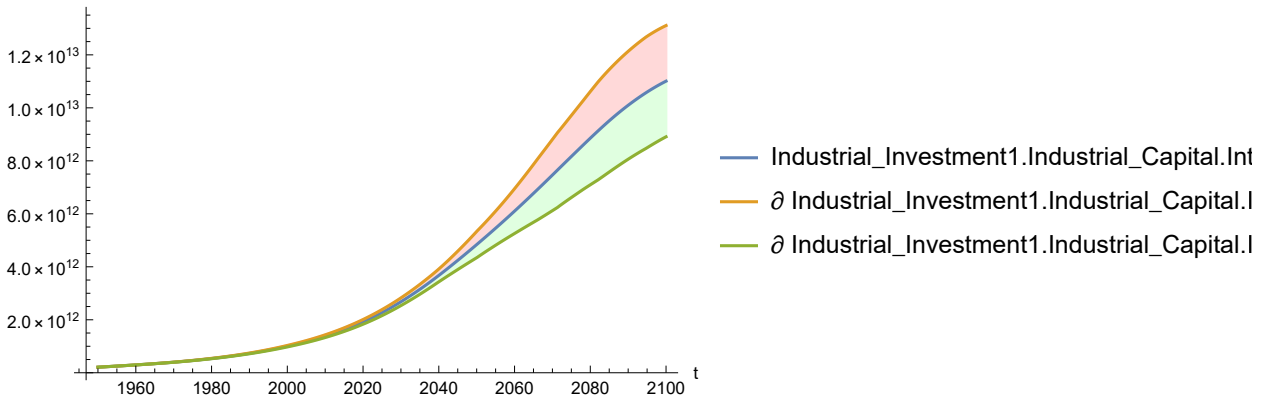
Out[153]=



In[154]:=

```
SystemModelPlot[simsensdata, {"Industrial_Investment1.Industrial_Capital.Integrator1.y",
"Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[2]", percentvar}]
```

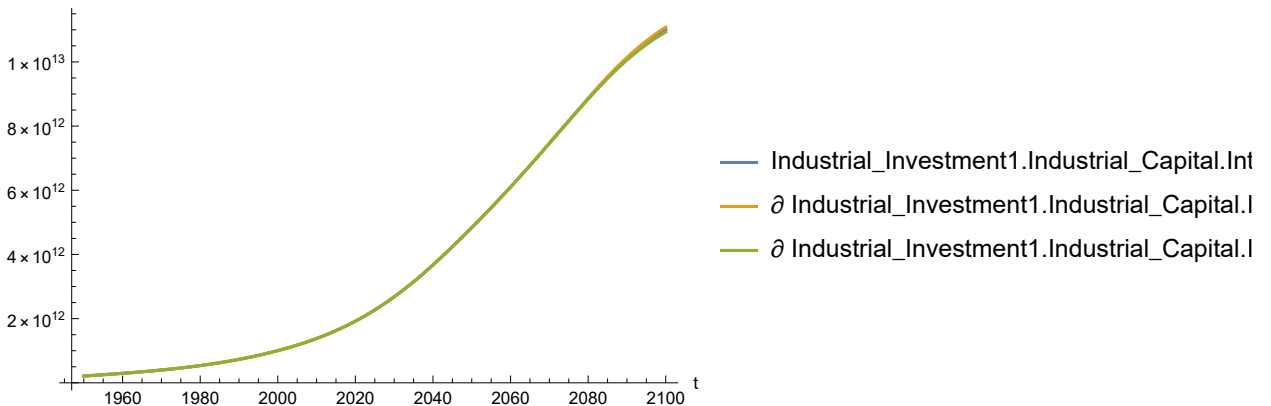
Out[154]=



In[155]:=

```
SystemModelPlot[simsensdata, {"Industrial_Investment1.Industrial_Capital.Integrator1.y",
"Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[3]", percentvar}]
```

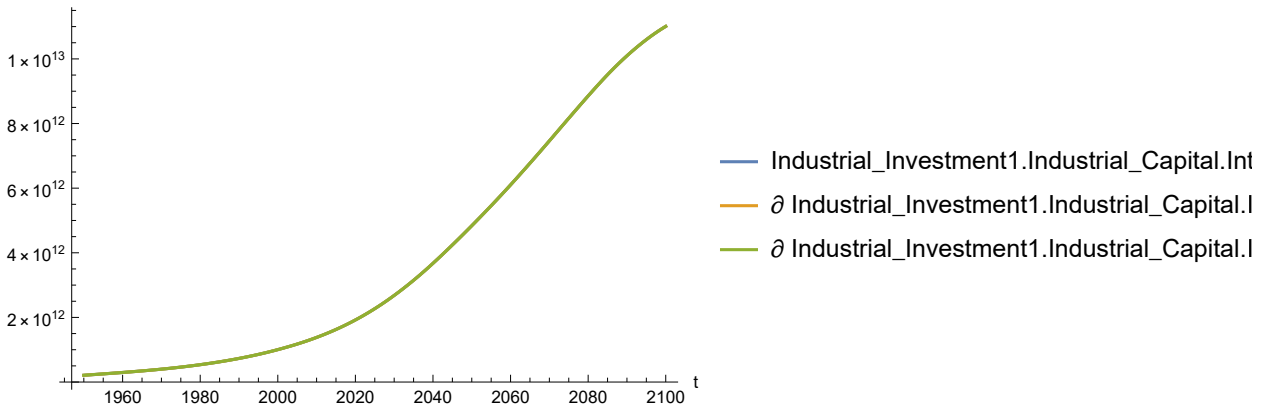
Out[155]=



In[156]:=

```
SystemModelPlot[simsensdata, {"Industrial_Investment1.Industrial_Capital.Integrator1.y",
"Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[4]", percentvar}]
```

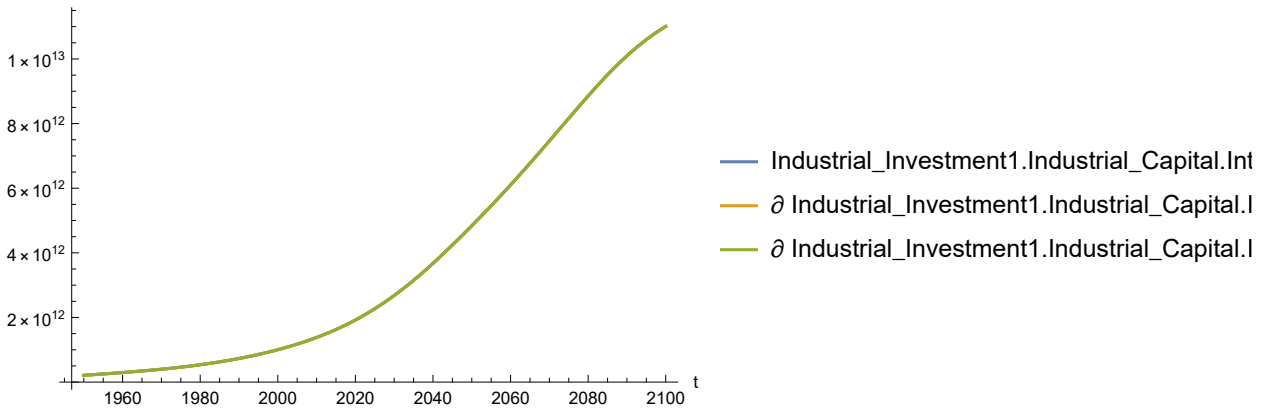
Out[156]:=



In[157]:=

```
SystemModelPlot[simsensdata, {"Industrial_Investment1.Industrial_Capital.Integrator1.y",
"Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[5]", percentvar}]
```

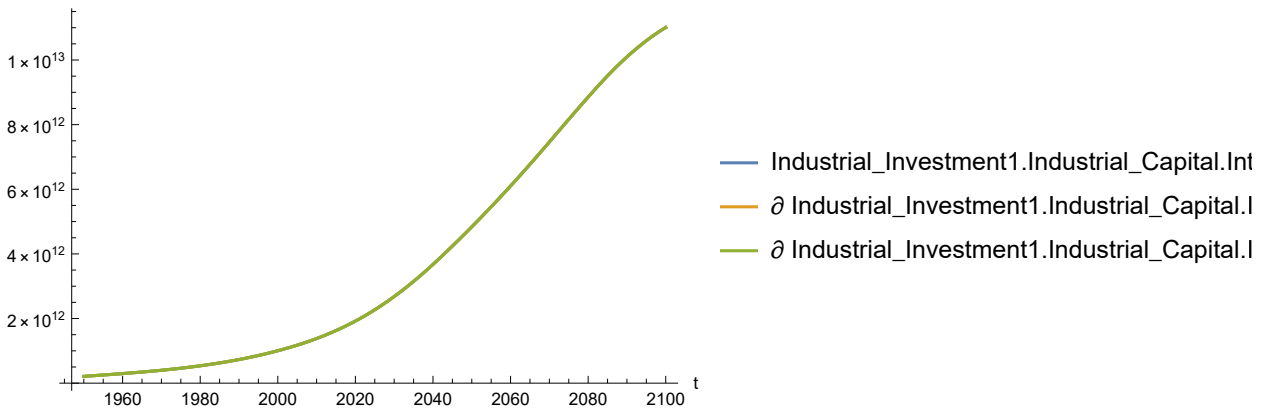
Out[157]:=



In[158]:=

```
SystemModelPlot[simsensdata, {"Industrial_Investment1.Industrial_Capital.Integrator1.y",
"Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[6]", percentvar}]
```

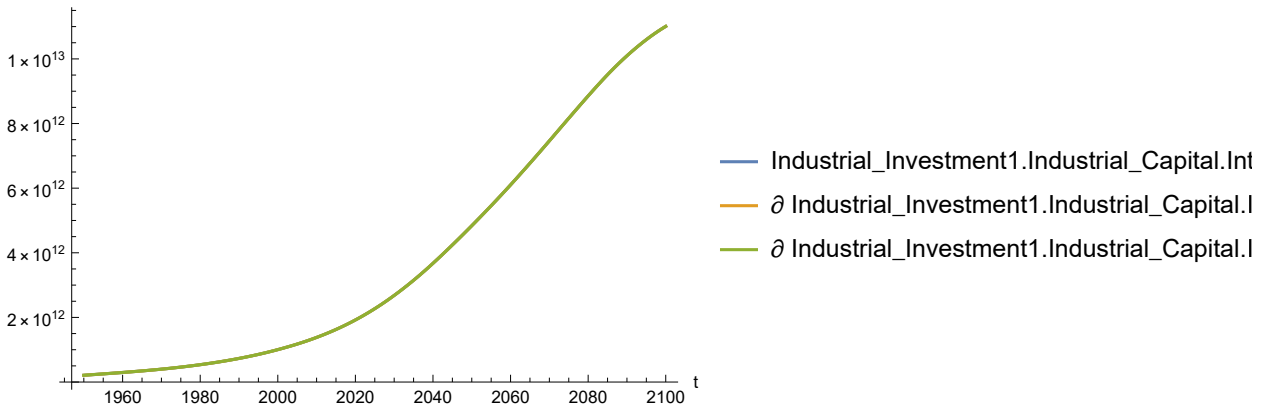
Out[158]:=



In[159]:=

```
SystemModelPlot[simsensdata, {"Industrial_Investment1.Industrial_Capital.Integrator1.y",
"Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[7]", percentvar}]
```

Out[159]=

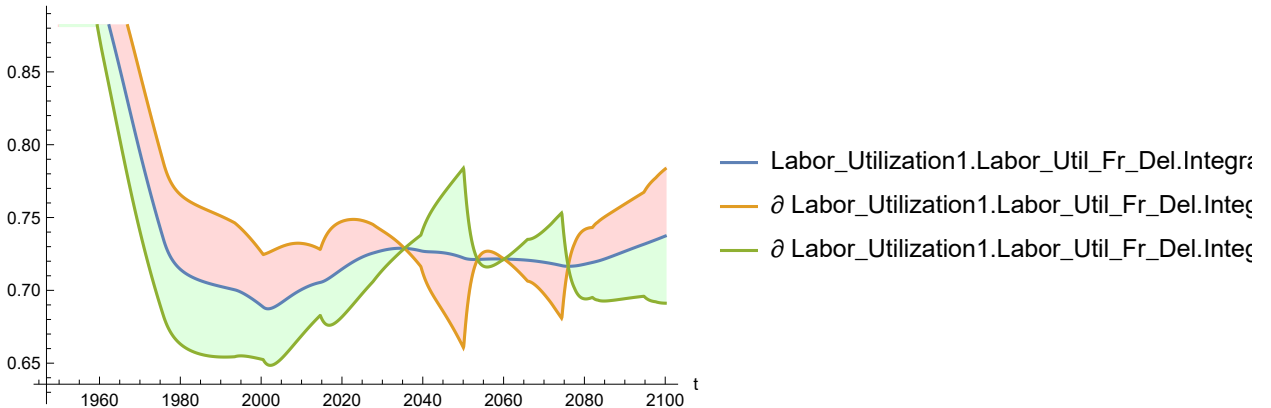


Plot the sensitivity of Labor_Utilization1.Labor_Util_Fr_Del.Integrator1.y to Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals.

In[160]:=

```
SystemModelPlot[simsensdata, {"Labor_Utilization1.Labor_Util_Fr_Del.Integrator1.y",
"Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[1]", percentvar}]
```

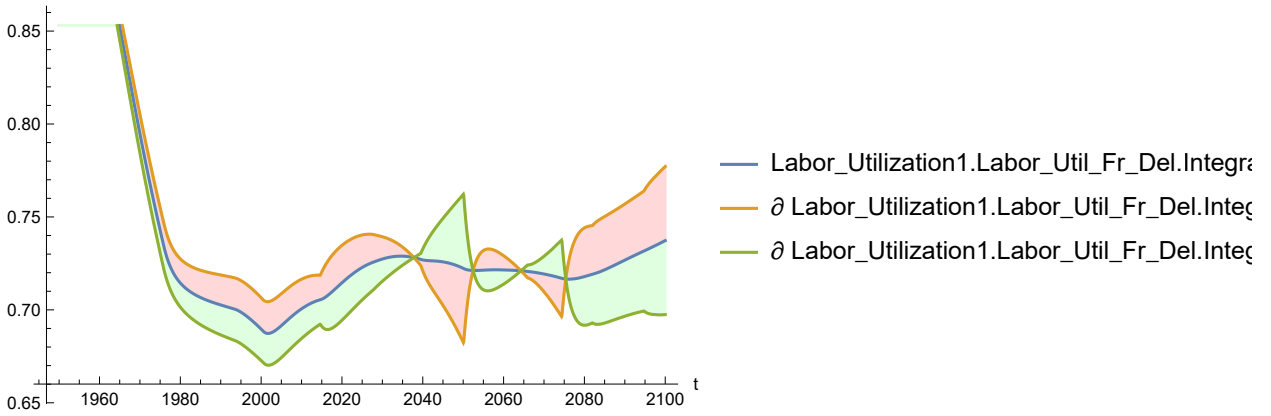
Out[160]=



In[161]:=

```
SystemModelPlot[simsensdata, {"Labor_Utilization1.Labor_Util_Fr_Del.Integrator1.y",
"Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[2]", percentvar}]
```

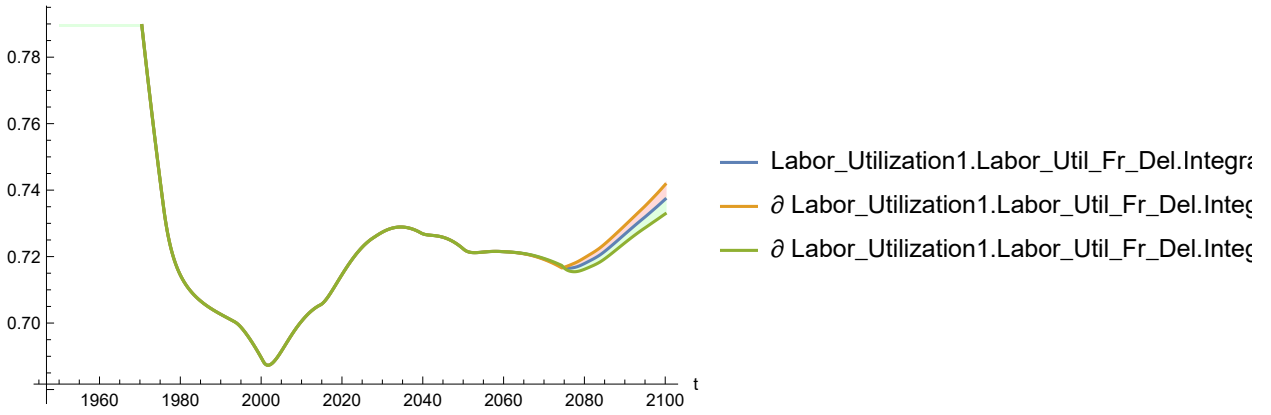
Out[161]=



In[162]:=

```
SystemModelPlot[simsensdata, {"Labor_Utilization1.Labor_Util_Fr_Del.Integrator1.y",
"Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[3]", percentvar}]
```

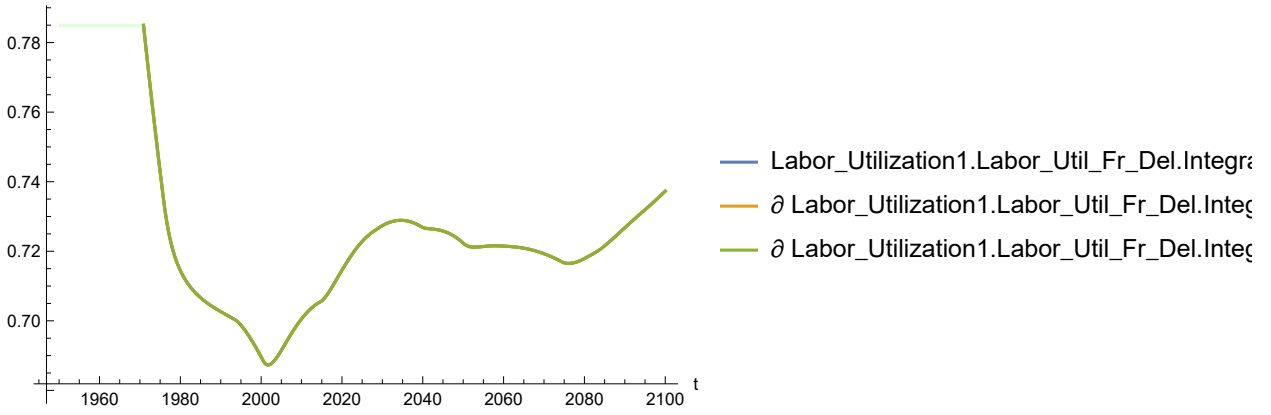
Out[162]=



In[163]:=

```
SystemModelPlot[simsensdata, {"Labor_Utilization1.Labor_Util_Fr_Del.Integrator1.y",
"Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[4]", percentvar}]
```

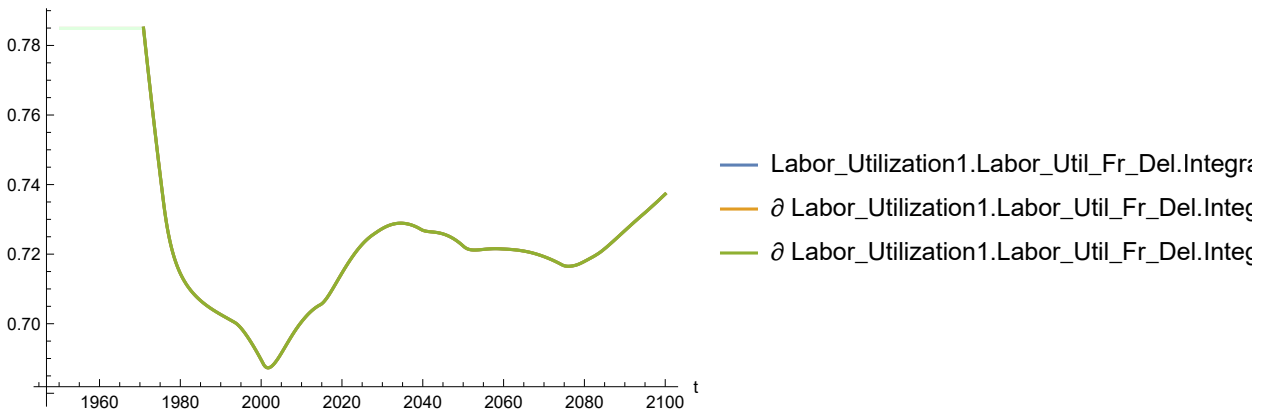
Out[163]=



In[164]:=

```
SystemModelPlot[simsensdata, {"Labor_Utilization1.Labor_Util_Fr_Del.Integrator1.y",
"Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[5]", percentvar}]
```

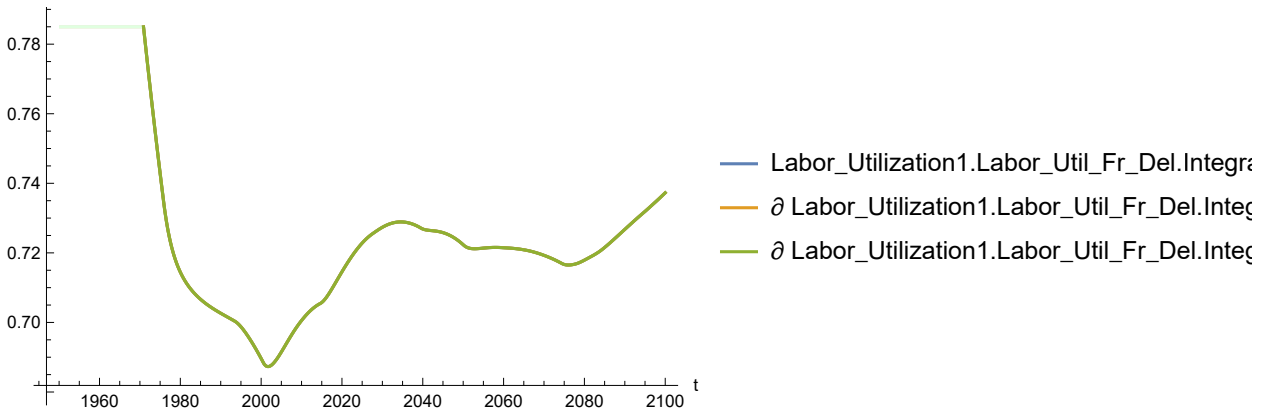
Out[164]=



In[165]:=

```
SystemModelPlot[simsensdata, {"Labor_Utilization1.Labor_Util_Fr_Del.Integrator1.y",
"Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[6]", percentvar}]
```

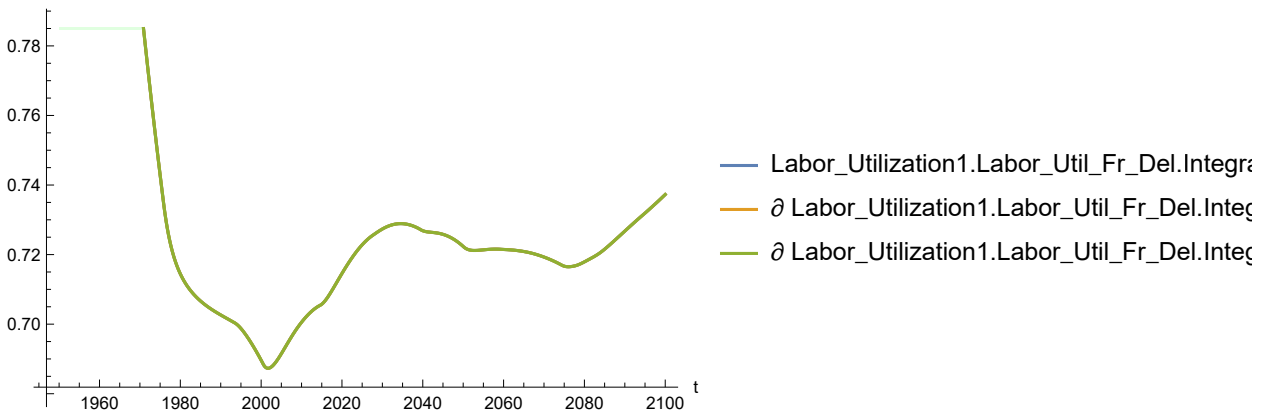
Out[165]=



In[166]:=

```
SystemModelPlot[simsensdata, {"Labor_Utilization1.Labor_Util_Fr_Del.Integrator1.y",
"Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[7]", percentvar}]
```

Out[166]=

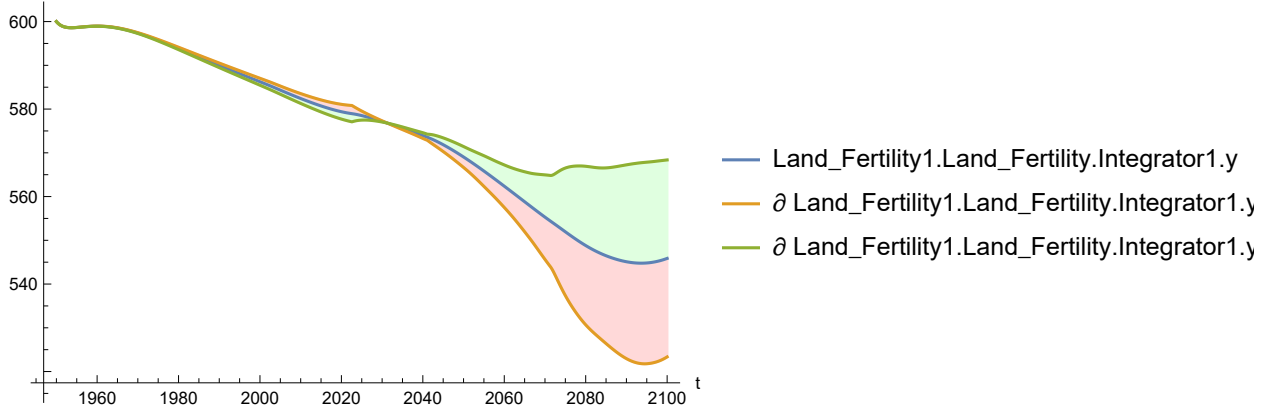


Plot the sensitivity of Land_Fertility1.Land_Fertility.Integrator1.y to Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals.

In[167]:=

```
SystemModelPlot[simsensdata, {"Land_Fertility1.Land_Fertility.Integrator1.y",
    "Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[1]", percentvar}]
```

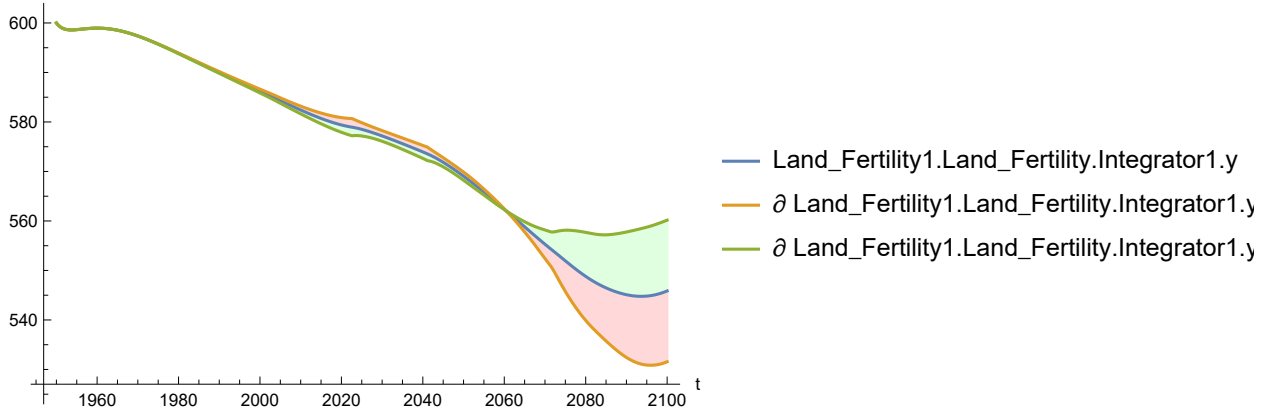
Out[167]=



In[168]:=

```
SystemModelPlot[simsensdata, {"Land_Fertility1.Land_Fertility.Integrator1.y",
    "Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[2]", percentvar}]
```

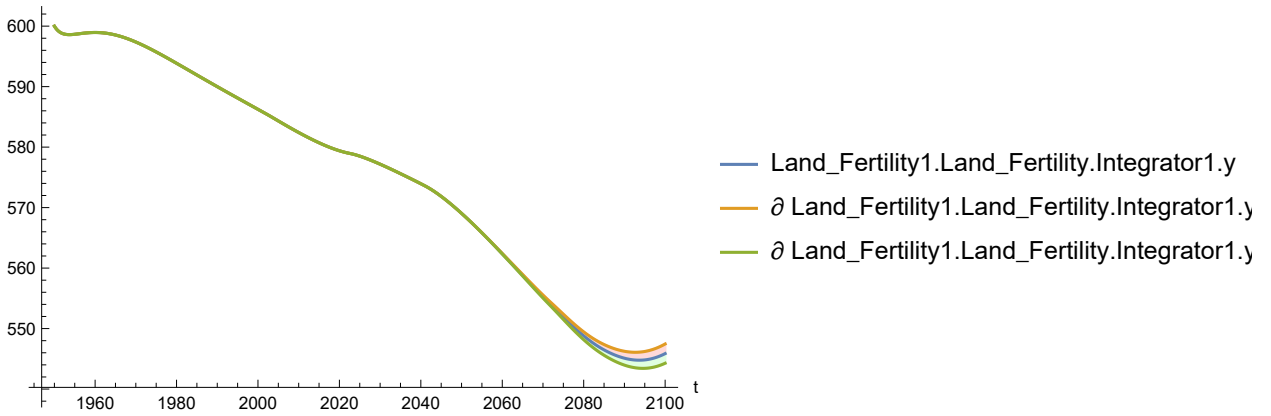
Out[168]=



In[169]:=

```
SystemModelPlot[simsensdata, {"Land_Fertility1.Land_Fertility.Integrator1.y",
"Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[3]", percentvar}]
```

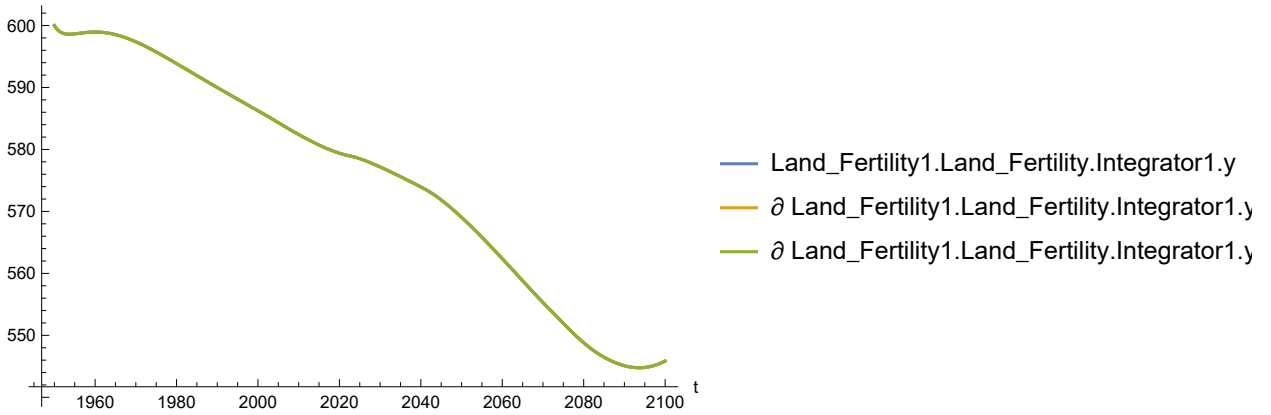
Out[169]=



In[170]:=

```
SystemModelPlot[simsensdata, {"Land_Fertility1.Land_Fertility.Integrator1.y",
"Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[4]", percentvar}]
```

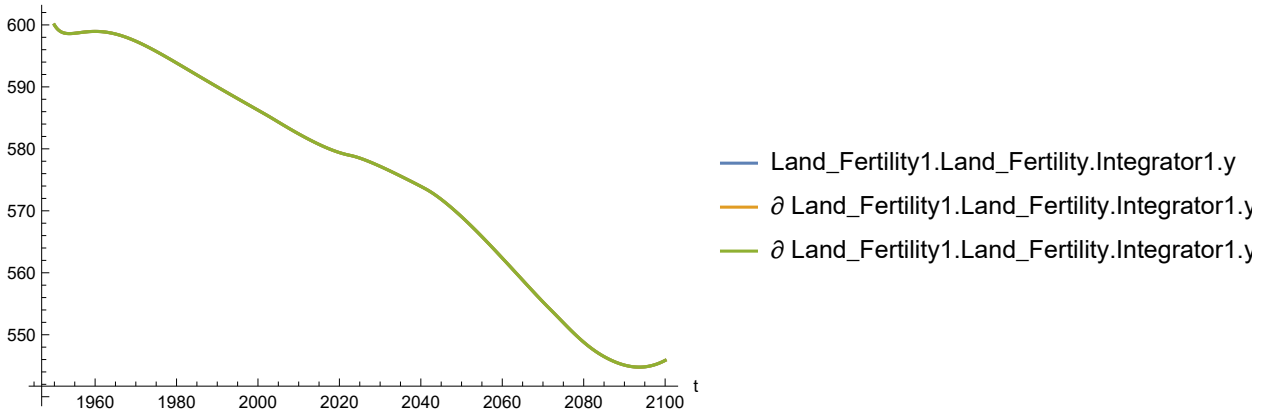
Out[170]=



In[171]:=

```
SystemModelPlot[simsensdata, {"Land_Fertility1.Land_Fertility.Integrator1.y",
"Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[5]", percentvar}]
```

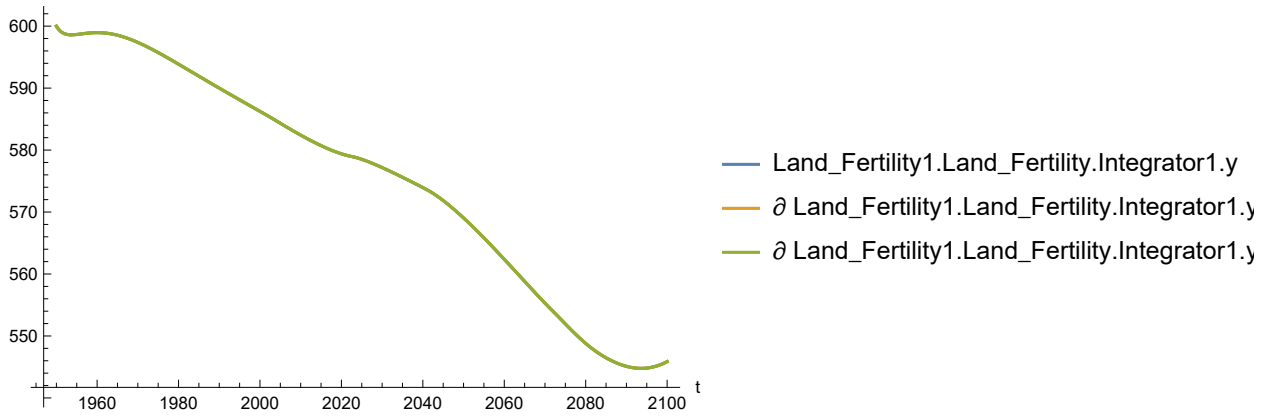
Out[171]=



In[172]:=

```
SystemModelPlot[simsensdata, {"Land_Fertility1.Land_Fertility.Integrator1.y",
    "Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[6]", percentvar}]
```

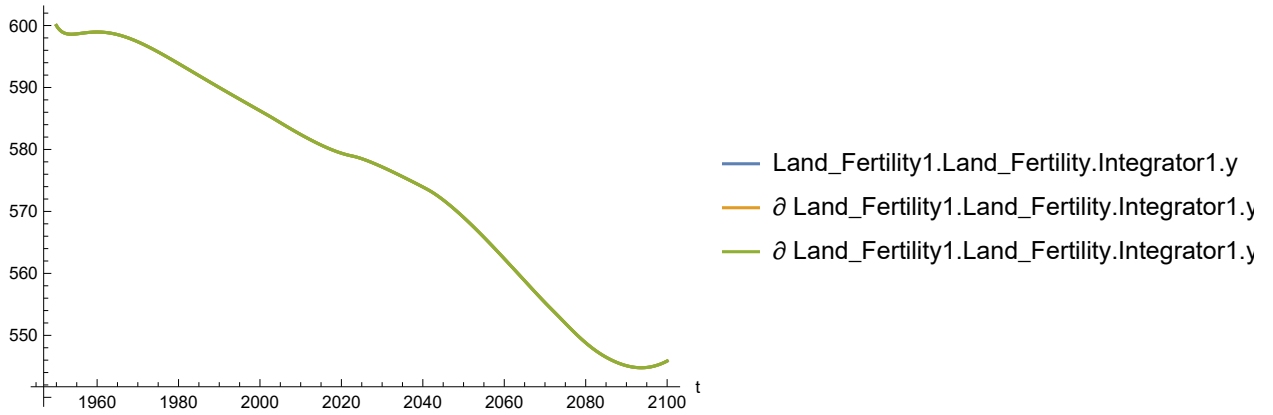
Out[172]=



In[173]:=

```
SystemModelPlot[simsensdata, {"Land_Fertility1.Land_Fertility.Integrator1.y",
    "Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[7]", percentvar}]
```

Out[173]=

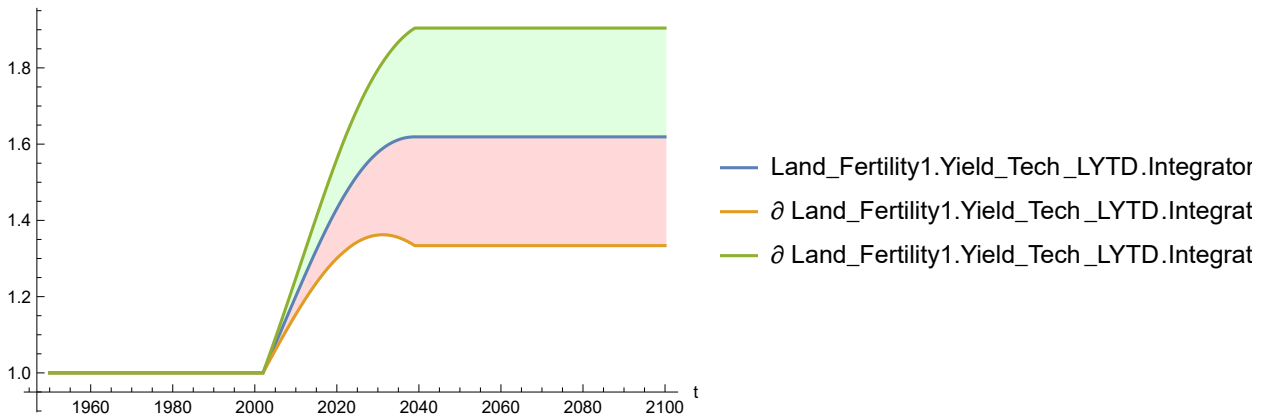


Plot the sensitivity of Land_Fertility1.Yield_Tech_LYTD.Integrator1.y to Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals.

In[174]:=

```
SystemModelPlot[simsensdata, {"Land_Fertility1.Yield_Tech_LYTD.Integrator1.y",
"Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[1]", percentvar}]
```

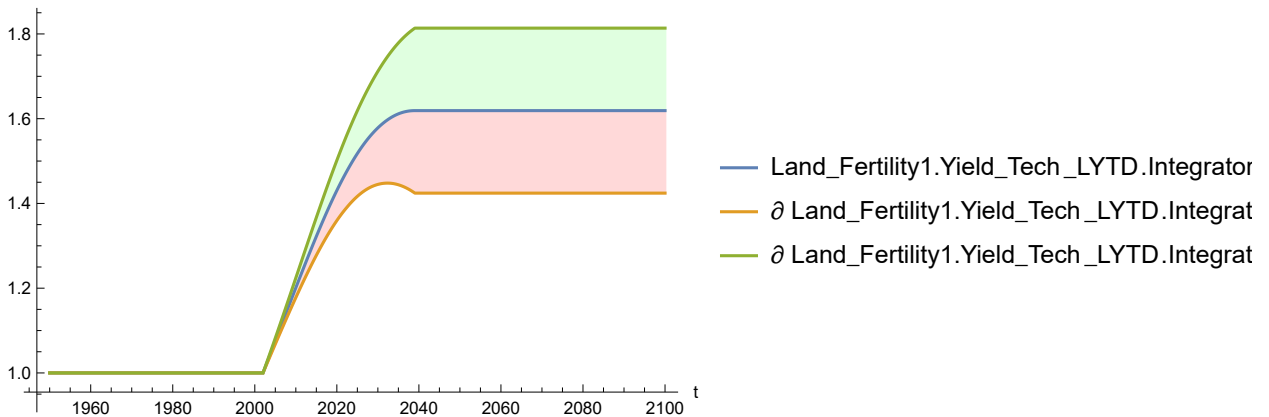
Out[174]=



In[175]:=

```
SystemModelPlot[simsensdata, {"Land_Fertility1.Yield_Tech_LYTD.Integrator1.y",
"Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[2]", percentvar}]
```

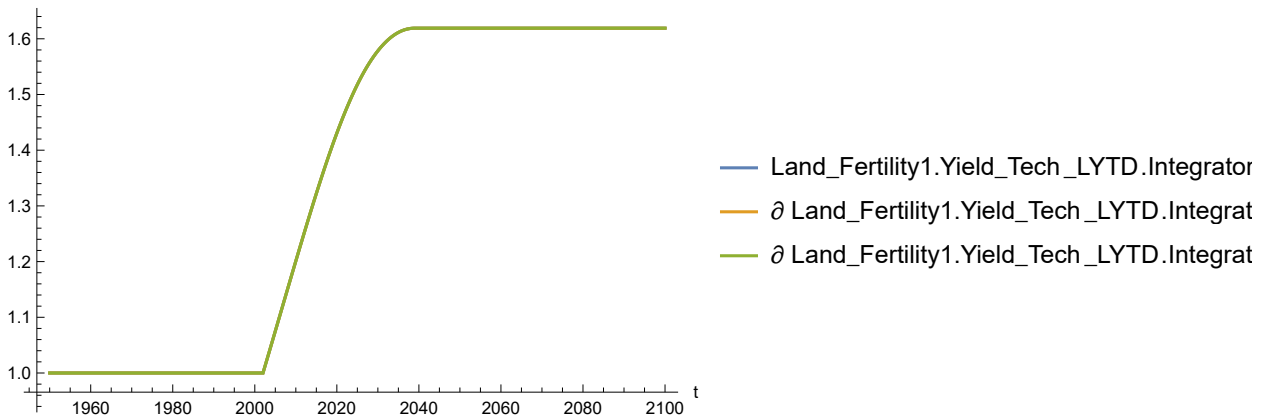
Out[175]=



In[176]:=

```
SystemModelPlot[simsensdata, {"Land_Fertility1.Yield_Tech_LYTD.Integrator1.y",
"Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[3]", percentvar}]
```

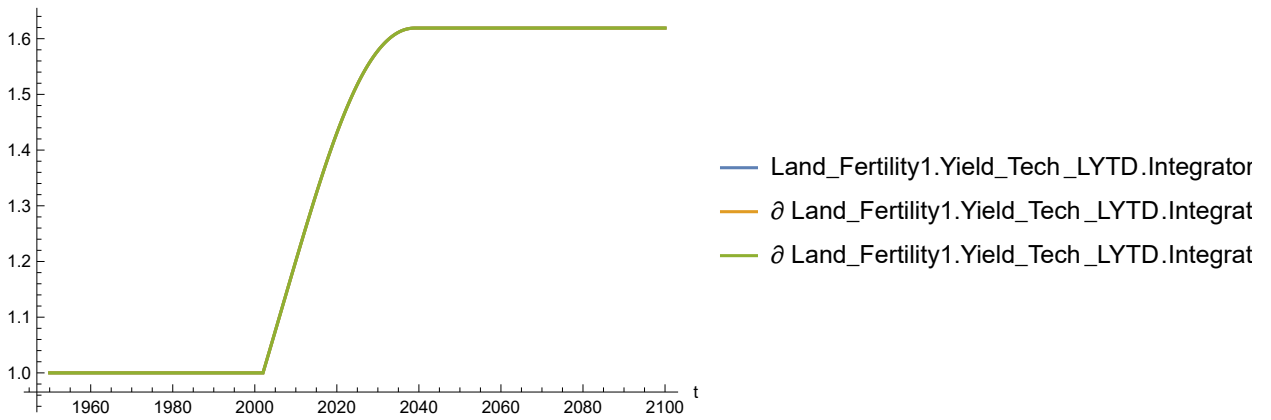
Out[176]=



In[177]:=

```
SystemModelPlot[simsensdata, {"Land_Fertility1.Yield_Tech_LYTD.Integrator1.y",
    "Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[4]", percentvar}]
```

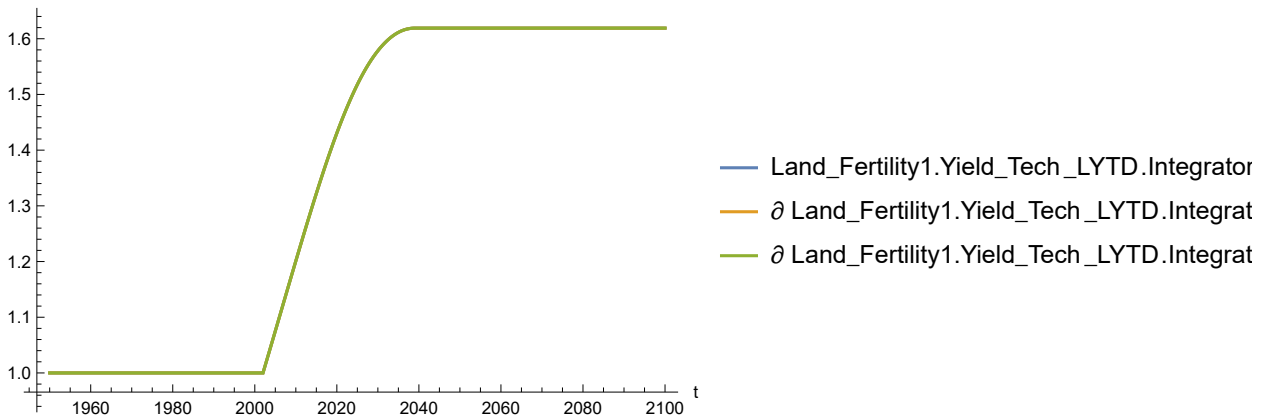
Out[177]=



In[178]:=

```
SystemModelPlot[simsensdata, {"Land_Fertility1.Yield_Tech_LYTD.Integrator1.y",
    "Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[5]", percentvar}]
```

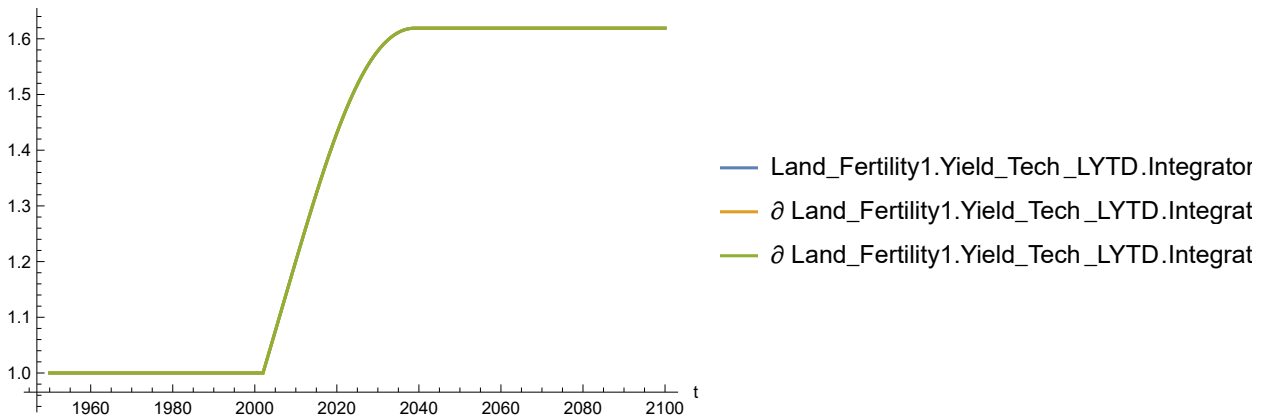
Out[178]=



In[179]:=

```
SystemModelPlot[simsensdata, {"Land_Fertility1.Yield_Tech_LYTD.Integrator1.y",
    "Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[6]", percentvar}]
```

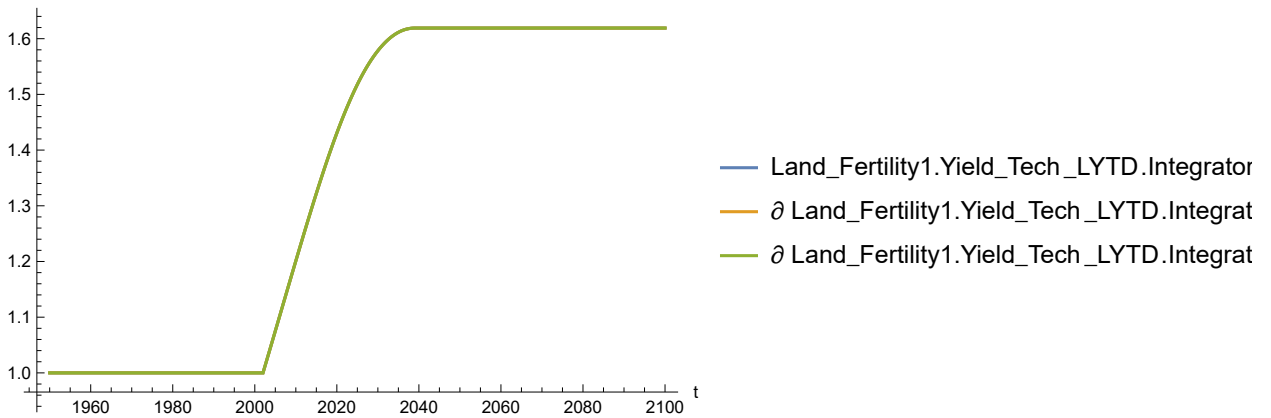
Out[179]=



In[180]:=

```
SystemModelPlot[simsensdata, {"Land_Fertility1.Yield_Tech_LYTD.Integrator1.y",
"Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[7]", percentvar}]
```

Out[180]=

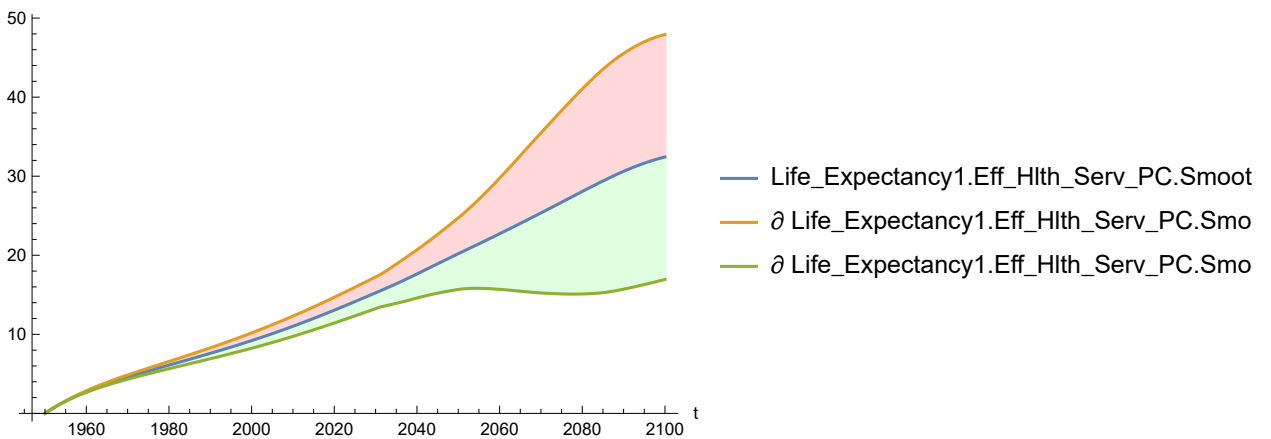


Plot the sensitivity of Life_Expectancy1.Eff_Hlth_Serv_PC.Smooth_of_Input.Integrator1.y to Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals.

In[181]:=

```
SystemModelPlot[simsensdata,
{"Life_Expectancy1.Eff_Hlth_Serv_PC.Smooth_of_Input.Integrator1.y",
"Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[1]", percentvar}]
```

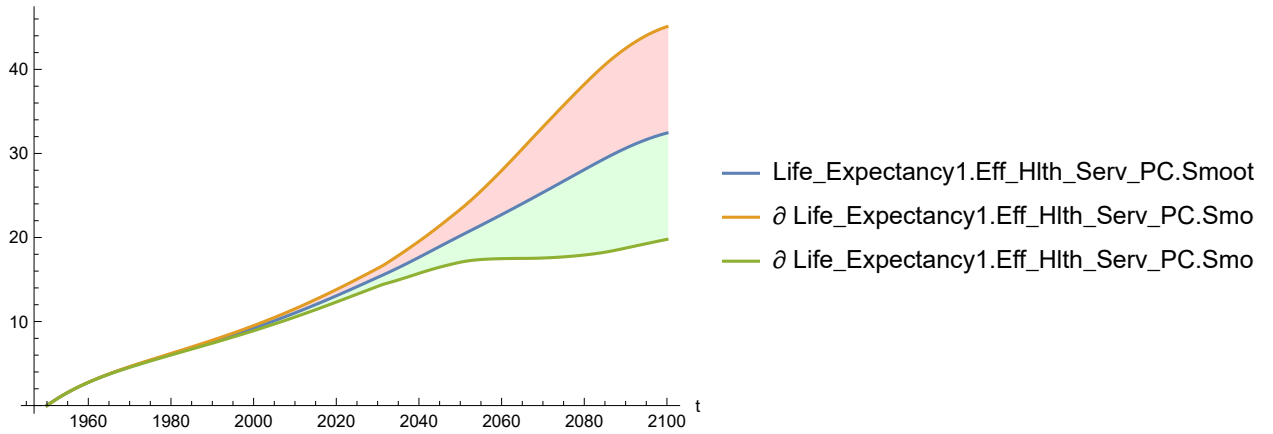
Out[181]=



In[182]:=

```
SystemModelPlot[simsensdata,
  {"Life_Expectancy1.Eff_Hlth_Serv_PC.Smooth_of_Input.Integrator1.y",
   "Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[2]", percentvar}]
```

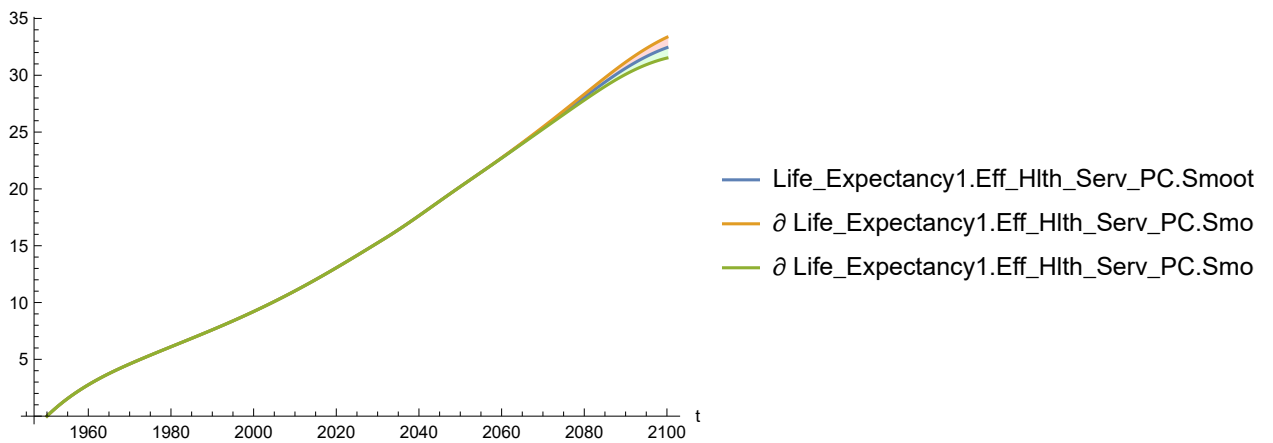
Out[182]=



In[183]:=

```
SystemModelPlot[simsensdata,
  {"Life_Expectancy1.Eff_Hlth_Serv_PC.Smooth_of_Input.Integrator1.y",
   "Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[3]", percentvar}]
```

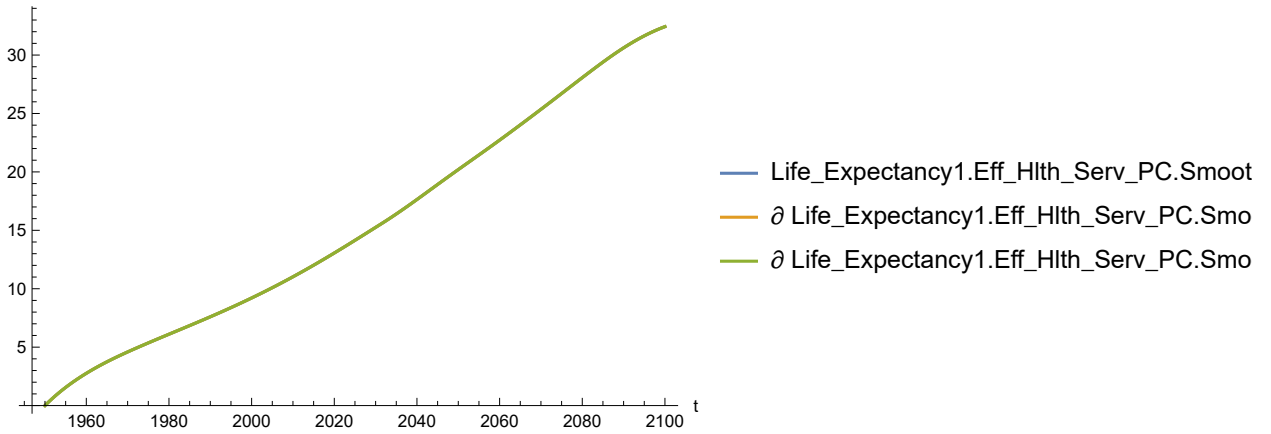
Out[183]=



In[184]:=

```
SystemModelPlot[simsensdata,
  {"Life_Expectancy1.Eff_Hlth_Serv_PC.Smooth_of_Input.Integrator1.y",
   "Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[4]", percentvar}]
```

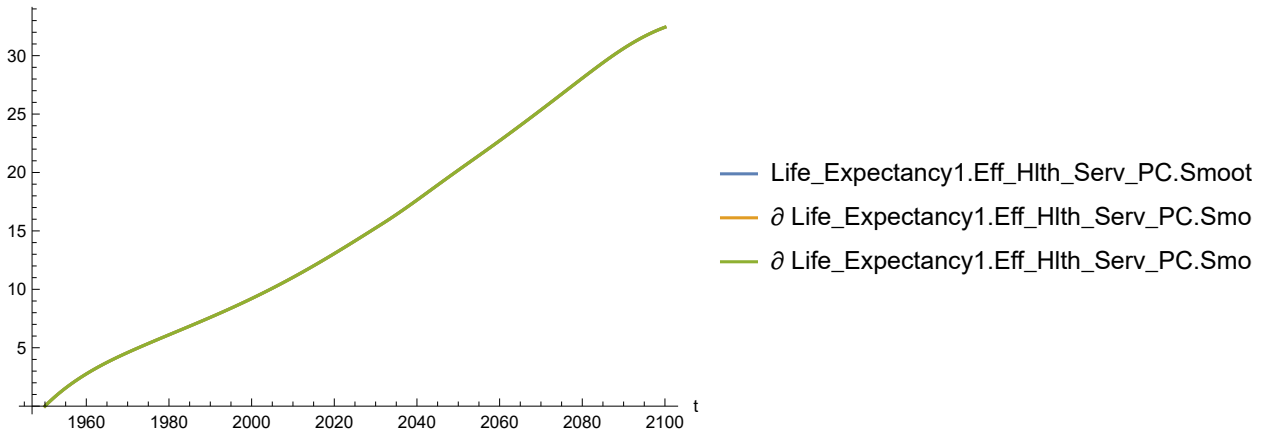
Out[184]=



In[185]:=

```
SystemModelPlot[simsensdata,
  {"Life_Expectancy1.Eff_Hlth_Serv_PC.Smooth_of_Input.Integrator1.y",
   "Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[5]", percentvar}]
```

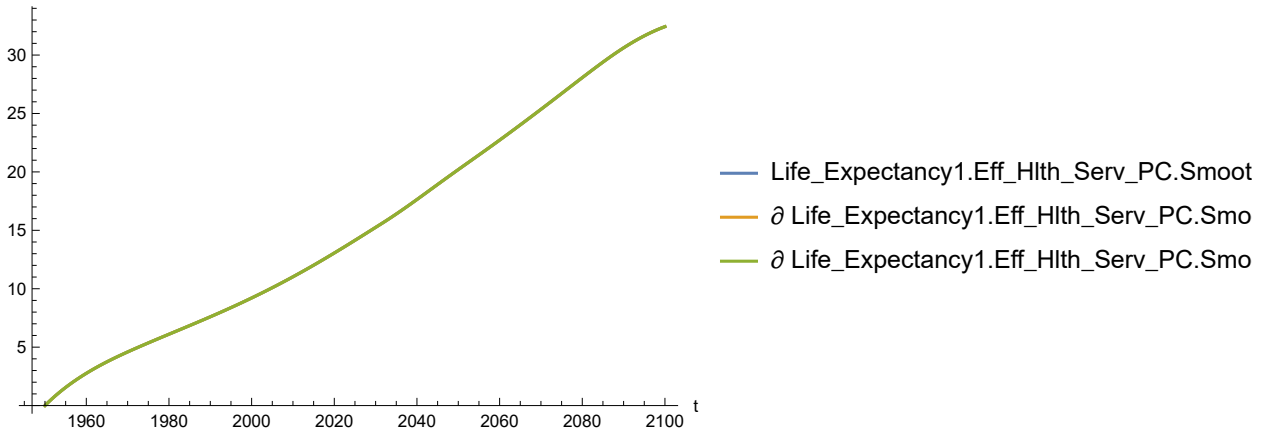
Out[185]=



In[186]:=

```
SystemModelPlot[simsensdata,
  {"Life_Expectancy1.Eff_Hlth_Serv_PC.Smooth_of_Input.Integrator1.y",
   "Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[6]", percentvar}]
```

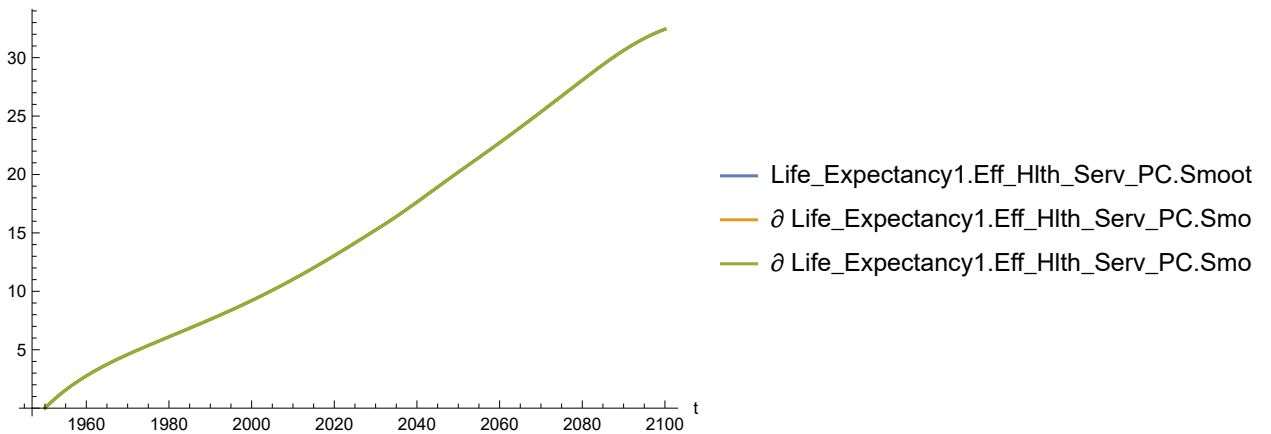
Out[186]=



In[187]:=

```
SystemModelPlot[simsensdata,
  {"Life_Expectancy1.Eff_Hlth_Serv_PC.Smooth_of_Input.Integrator1.y",
   "Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[7]", percentvar}]
```

Out[187]=

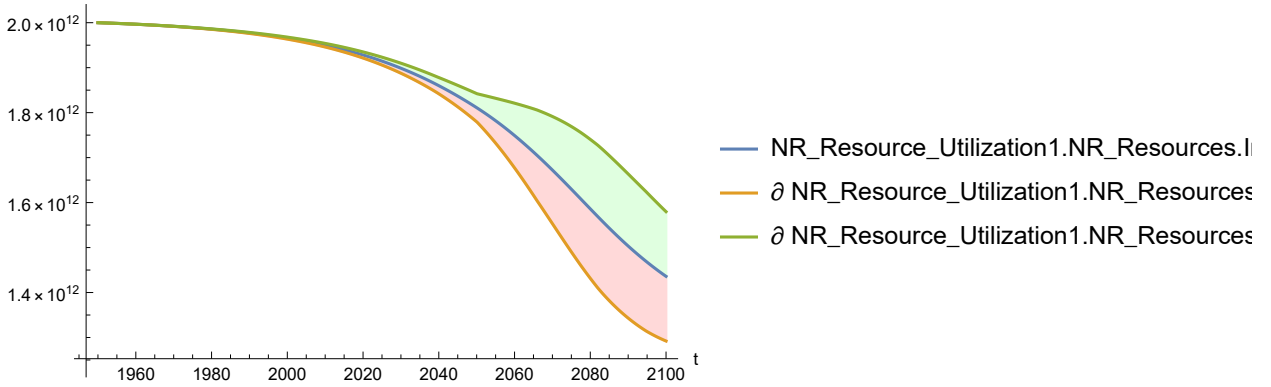


Plot the sensitivity of `NR_Resource_Utilization1.NR_Resources.Integrator1.y` to `Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals`.

In[188]:=

```
SystemModelPlot[simsensdata, {"NR_Resource_Utilization1.NR_Resources.Integrator1.y",
"Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[1]", percentvar}]
```

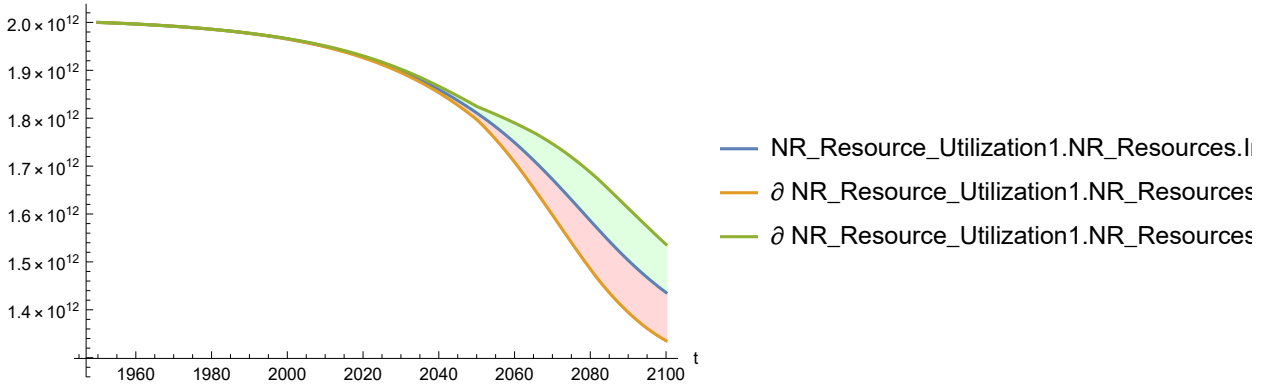
Out[188]=



In[189]:=

```
SystemModelPlot[simsensdata, {"NR_Resource_Utilization1.NR_Resources.Integrator1.y",
"Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[2]", percentvar}]
```

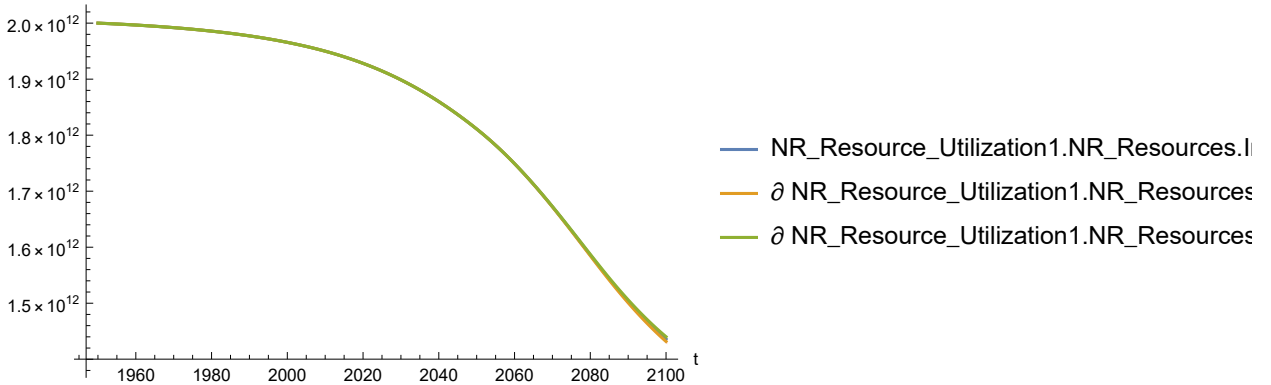
Out[189]=



In[190]:=

```
SystemModelPlot[simsensdata, {"NR_Resource_Utilization1.NR_Resources.Integrator1.y",
"Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[3]", percentvar}]
```

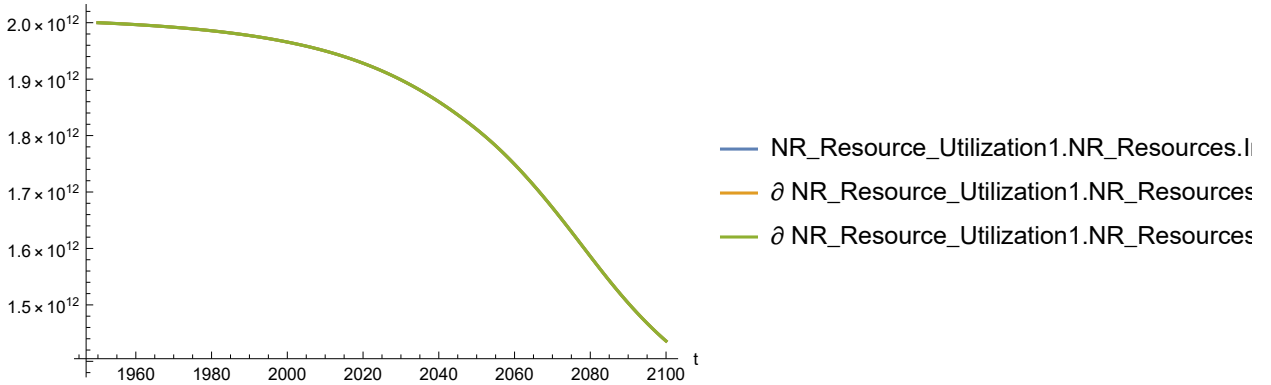
Out[190]=



In[191]:=

```
SystemModelPlot[simsensdata, {"NR_Resource_Utilization1.NR_Resources.Integrator1.y",
"Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[4]", percentvar}]
```

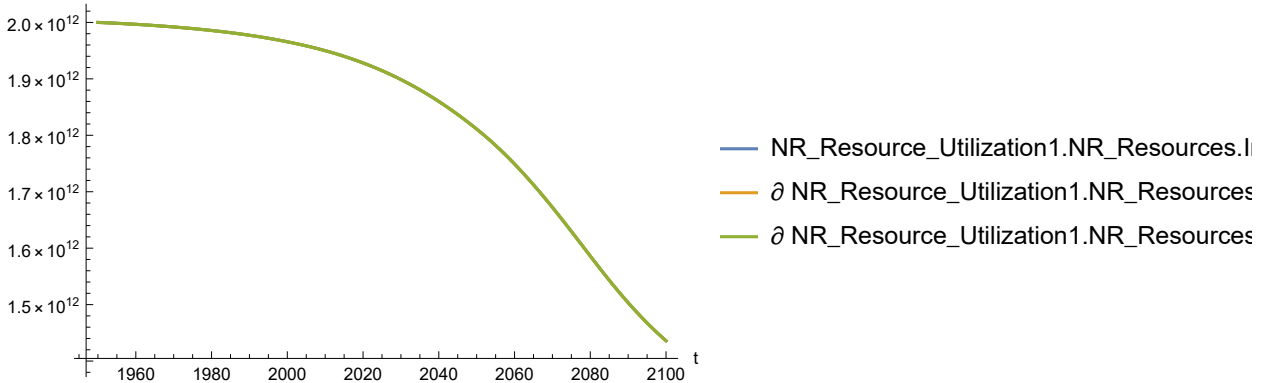
Out[191]=



In[192]:=

```
SystemModelPlot[simsensdata, {"NR_Resource_Utilization1.NR_Resources.Integrator1.y",
"Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[5]", percentvar}]
```

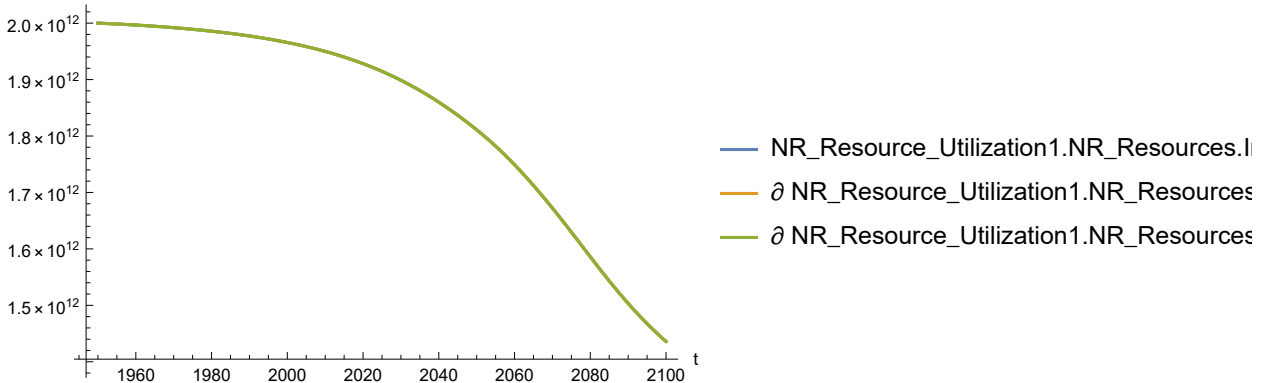
Out[192]=



In[193]:=

```
SystemModelPlot[simsensdata, {"NR_Resource_Utilization1.NR_Resources.Integrator1.y",
"Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[6]", percentvar}]
```

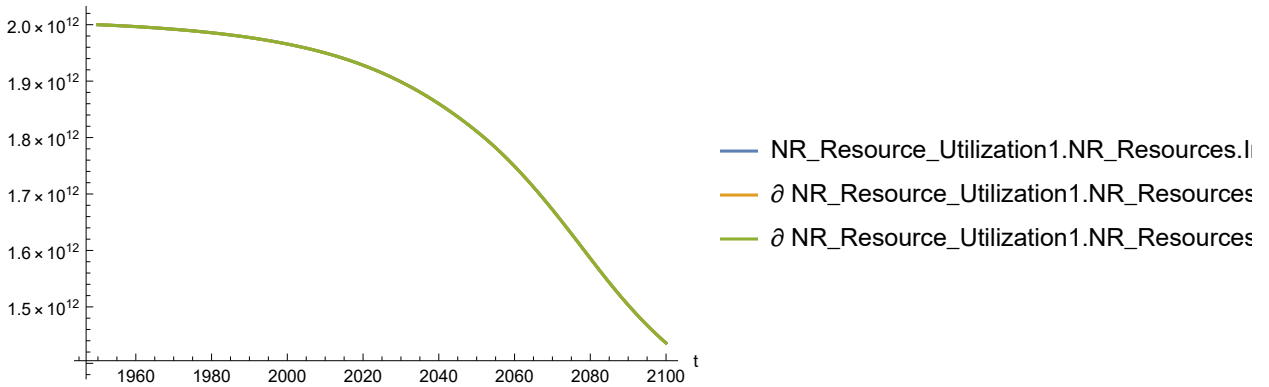
Out[193]=



In[194]:=

```
SystemModelPlot[simsensdata, {"NR_Resource_Utilization1.NR_Resources.Integrator1.y",
"Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[7]", percentvar}]
```

Out[194]=

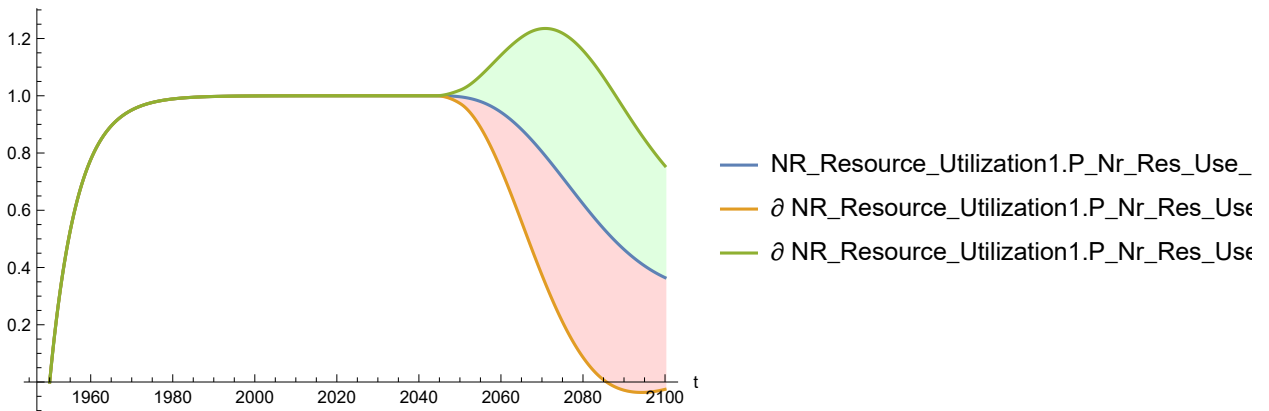


Plot the sensitivity of NR_Resource_Utilization1.P_Nr_Res_Use_Fact_2.Smooth1.Integrator1.y to Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals.

In[195]:=

```
SystemModelPlot[simsensdata, {"NR_Resource_Utilization1.P_Nr_Res_Use_Fact_2.Smooth1.Integrator1.y",
"Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[1]", percentvar}]
```

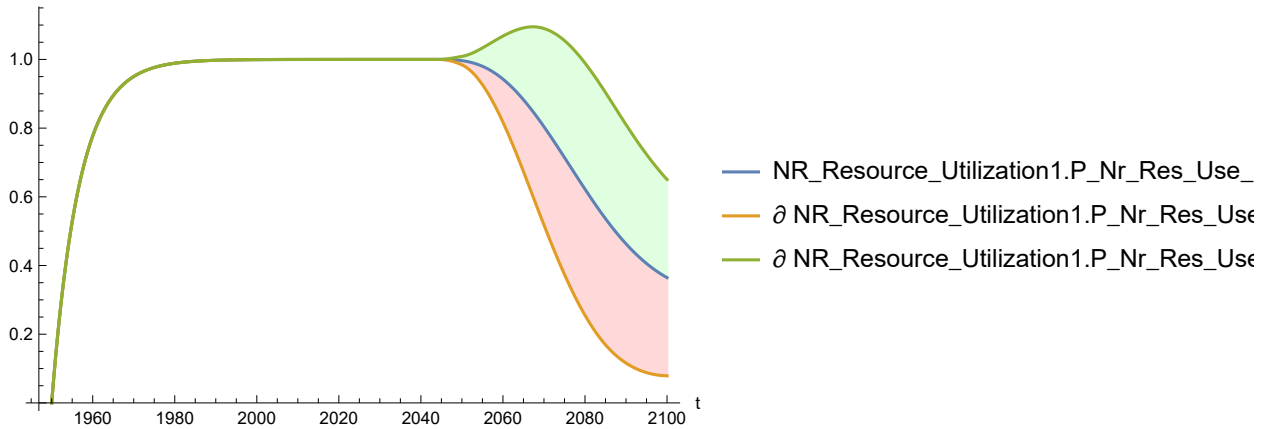
Out[195]=



In[196]:=

```
SystemModelPlot[simsensdata,
  {"NR_Resource_Utilization1.P_Nr_Res_Use_Fact_2.Smooth1.Integrator1.y",
   "Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[2]", percentvar}]
```

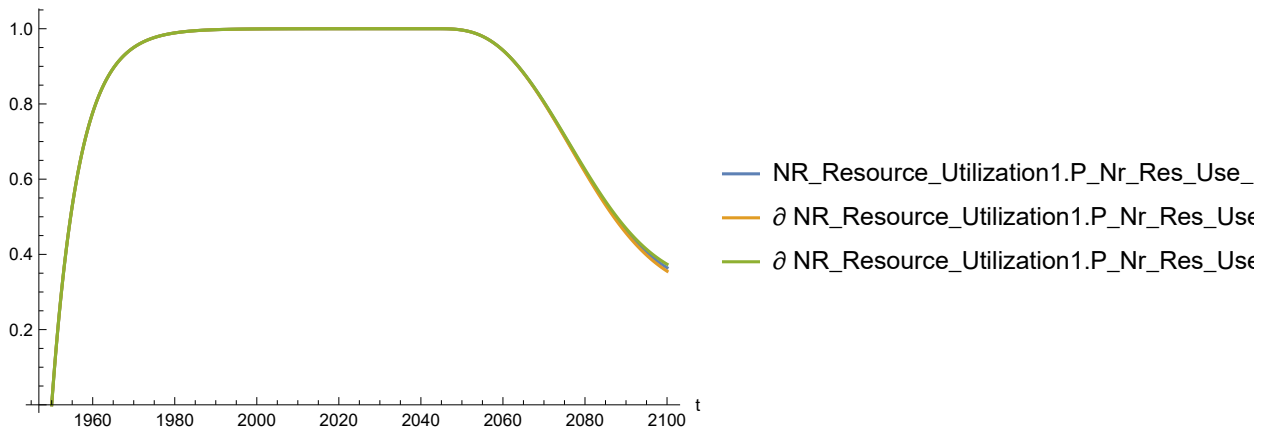
Out[196]=



In[197]:=

```
SystemModelPlot[simsensdata,
  {"NR_Resource_Utilization1.P_Nr_Res_Use_Fact_2.Smooth1.Integrator1.y",
   "Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[3]", percentvar}]
```

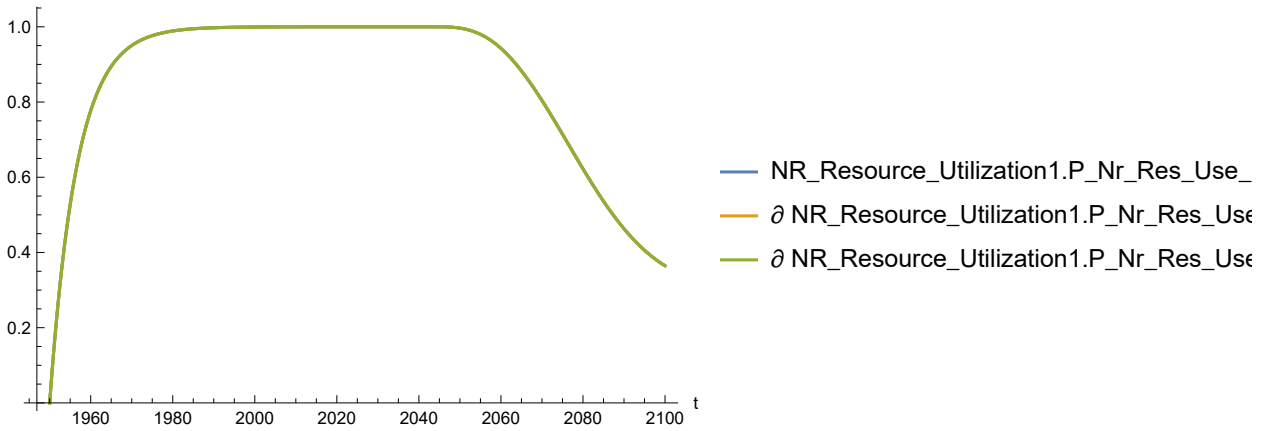
Out[197]=



In[198]:=

```
SystemModelPlot[simsensdata,
  {"NR_Resource_Utilization1.P_Nr_Res_Use_Fact_2.Smooth1.Integrator1.y",
   "Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[4]", percentvar}]
```

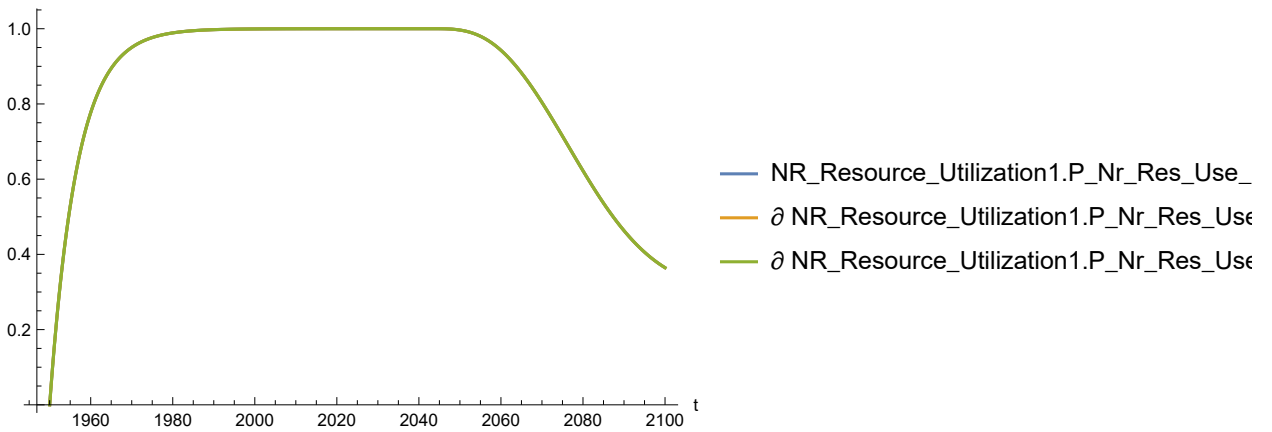
Out[198]=



In[199]:=

```
SystemModelPlot[simsensdata,
  {"NR_Resource_Utilization1.P_Nr_Res_Use_Fact_2.Smooth1.Integrator1.y",
   "Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[5]", percentvar}]
```

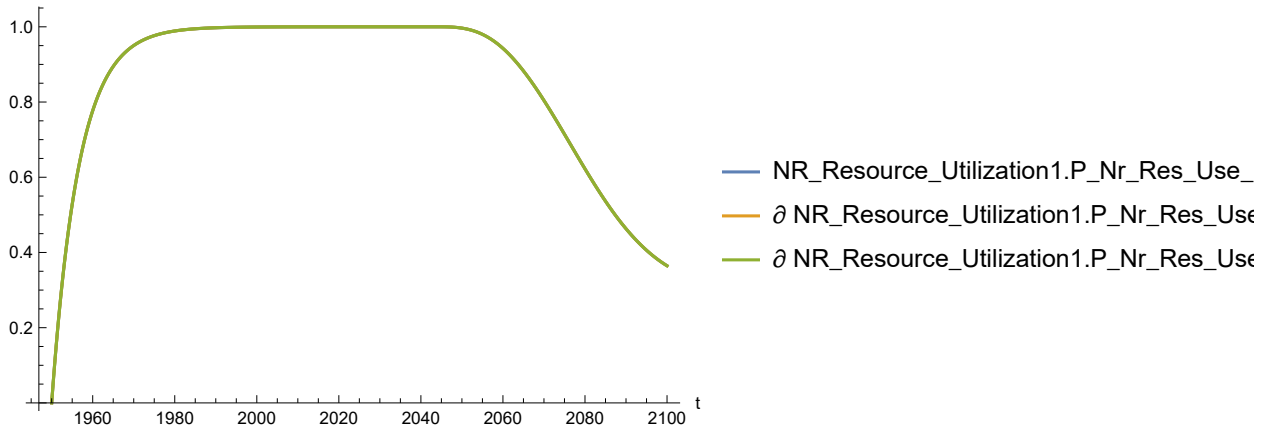
Out[199]=



In[200]:=

```
SystemModelPlot[simsensdata,
  {"NR_Resource_Utilization1.P_Nr_Res_Use_Fact_2.Smooth1.Integrator1.y",
   "Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[6]", percentvar}]
```

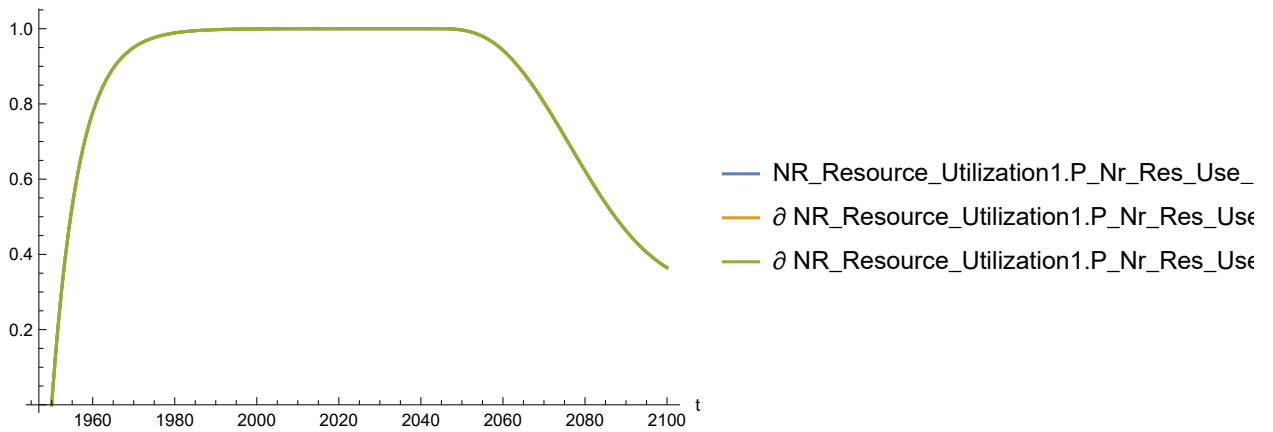
Out[200]=



In[201]:=

```
SystemModelPlot[simsensdata,
  {"NR_Resource_Utilization1.P_Nr_Res_Use_Fact_2.Smooth1.Integrator1.y",
   "Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[7]", percentvar}]
```

Out[201]=

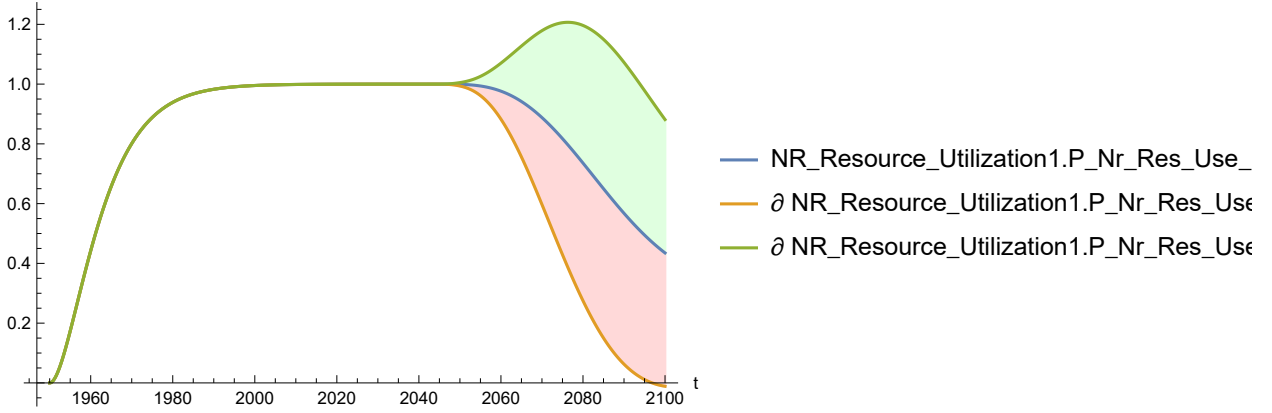


Plot the sensitivity of NR_Resource_Utilization1.P_Nr_Res_Use_Fact_2.Smooth2.Integrator1.y to Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals.

In[202]:=

```
SystemModelPlot[simsensdata,
  {"NR_Resource_Utilization1.P_Nr_Res_Use_Fact_2.Smooth2.Integrator1.y",
   "Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[1]", percentvar}]
```

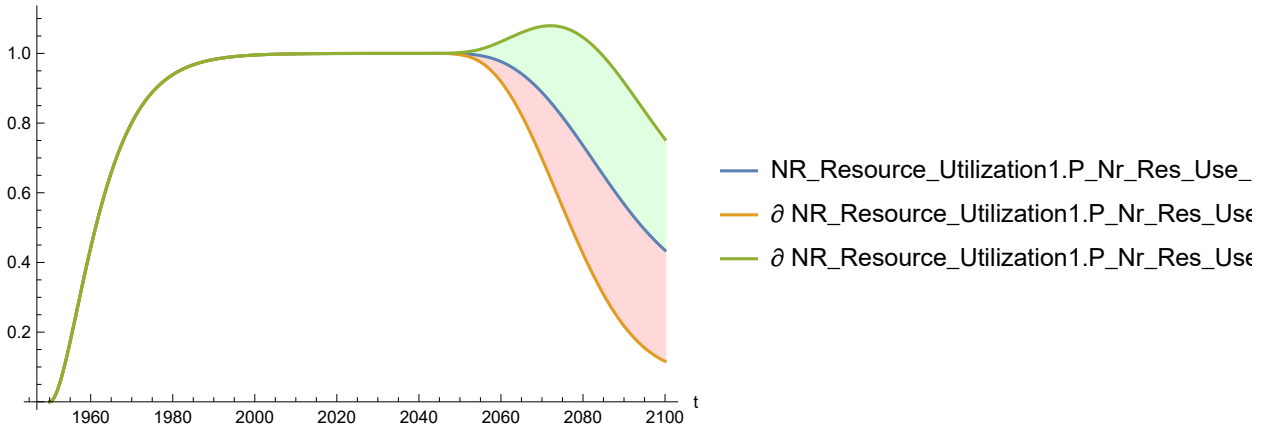
Out[202]=



In[203]:=

```
SystemModelPlot[simsensdata,
  {"NR_Resource_Utilization1.P_Nr_Res_Use_Fact_2.Smooth2.Integrator1.y",
   "Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[2]", percentvar}]
```

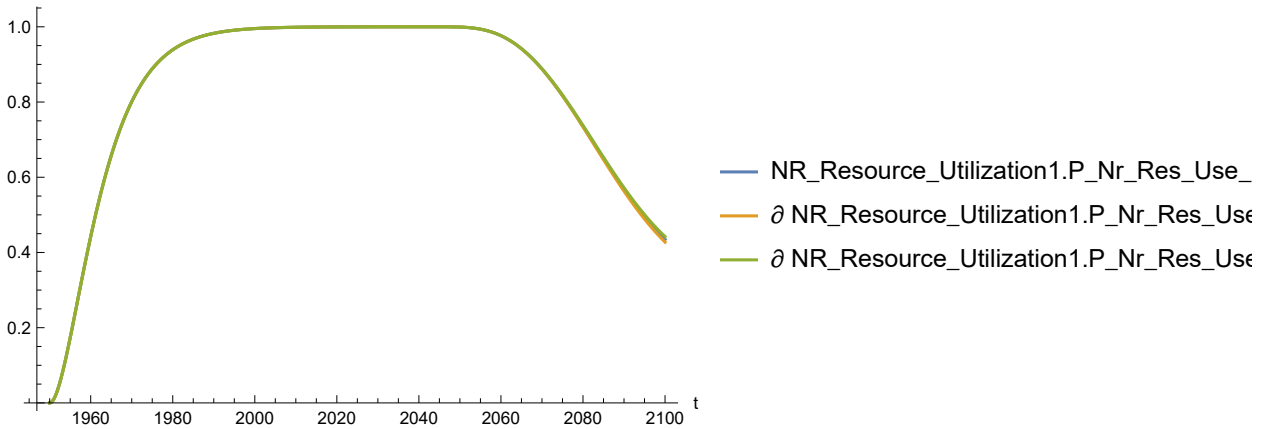
Out[203]=



In[204]:=

```
SystemModelPlot[simsensdata,
  {"NR_Resource_Utilization1.P_Nr_Res_Use_Fact_2.Smooth2.Integrator1.y",
   "Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[3]", percentvar}]
```

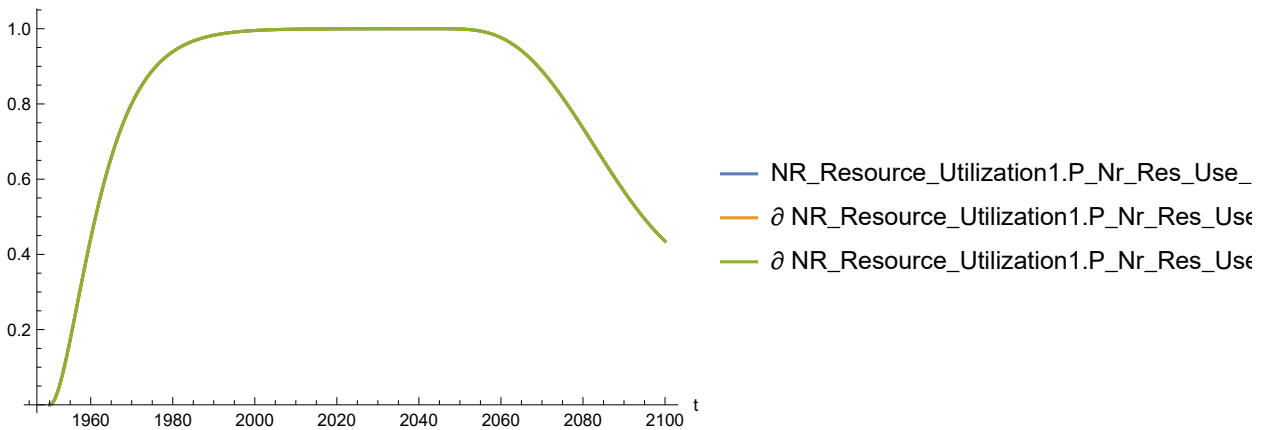
Out[204]=



In[205]:=

```
SystemModelPlot[simsensdata,
  {"NR_Resource_Utilization1.P_Nr_Res_Use_Fact_2.Smooth2.Integrator1.y",
   "Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[4]", percentvar}]
```

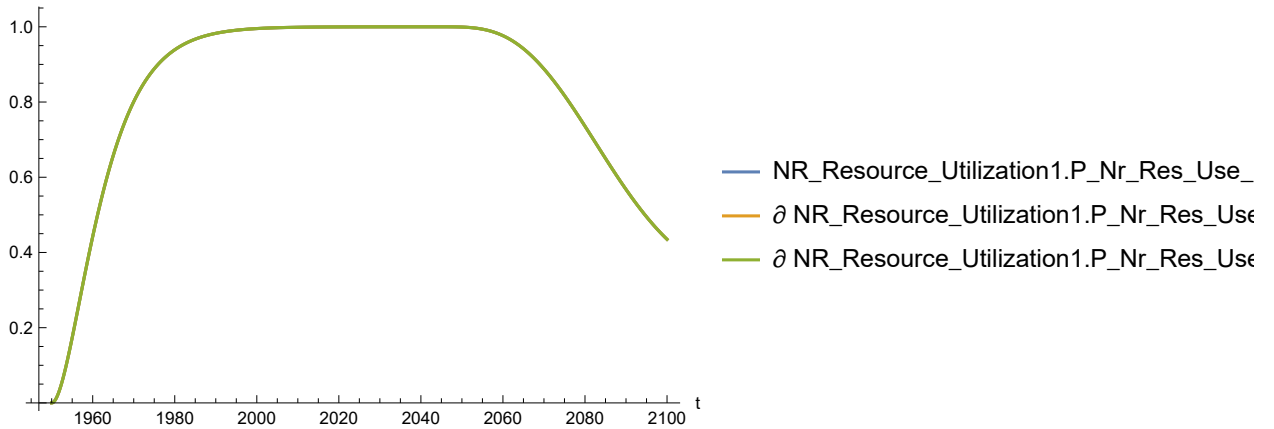
Out[205]=



In[206]:=

```
SystemModelPlot[simsensdata,
  {"NR_Resource_Utilization1.P_Nr_Res_Use_Fact_2.Smooth2.Integrator1.y",
   "Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[5]", percentvar}]
```

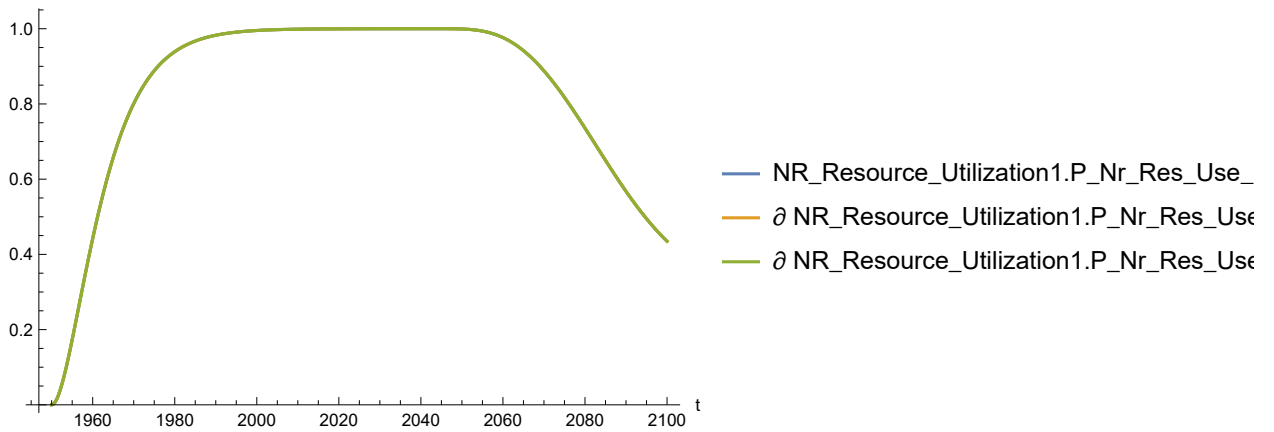
Out[206]=



In[207]:=

```
SystemModelPlot[simsensdata,
  {"NR_Resource_Utilization1.P_Nr_Res_Use_Fact_2.Smooth2.Integrator1.y",
   "Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[6]", percentvar}]
```

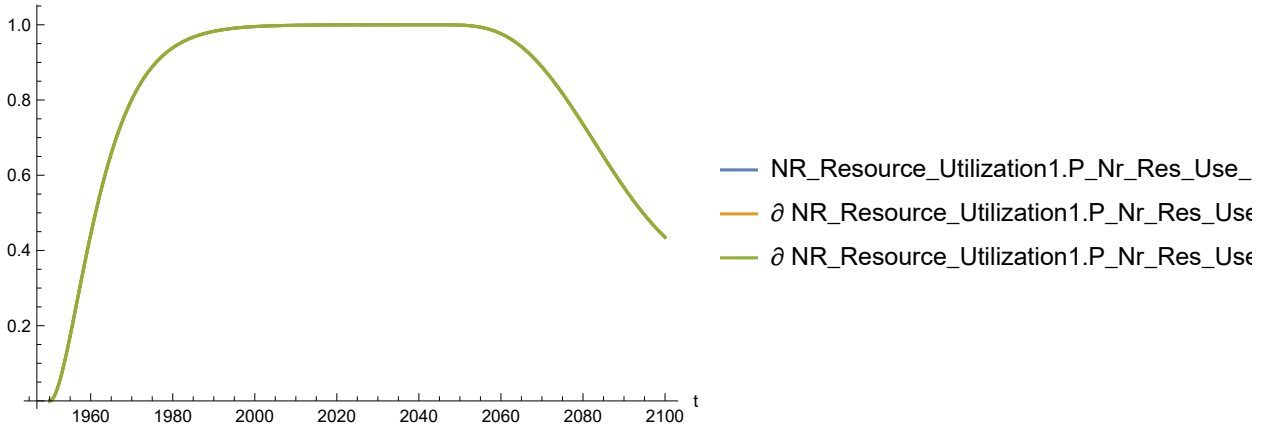
Out[207]=



In[208]:=

```
SystemModelPlot[simsensdata,
  {"NR_Resource_Utilization1.P_Nr_Res_Use_Fact_2.Smooth2.Integrator1.y",
   "Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[7]", percentvar}]
```

Out[208]=

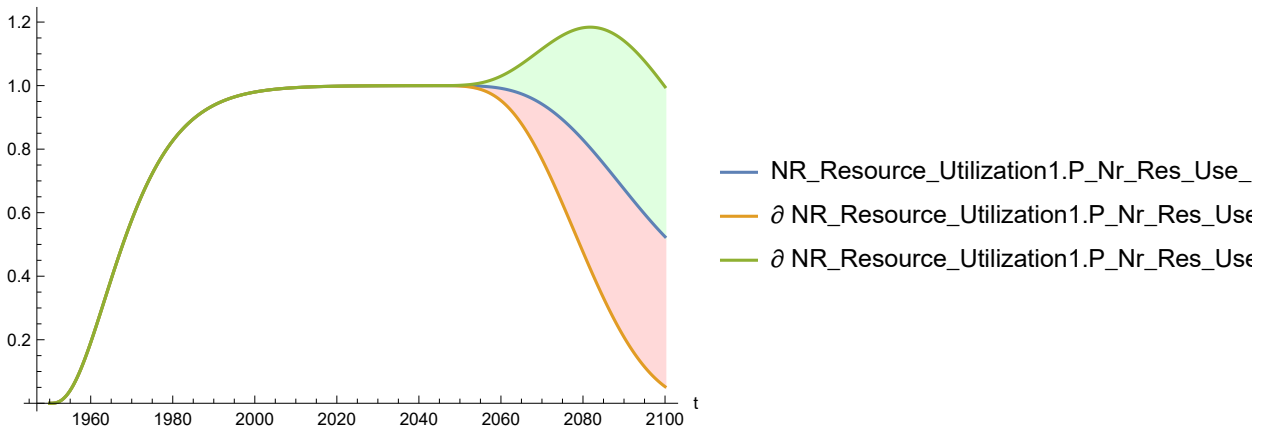


Plot the sensitivity of NR_Resource_Utilization1.P_Nr_Res_Use_Fact_2.Smooth3.Integrator1.y to Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals.

In[209]:=

```
SystemModelPlot[simsensdata,
  {"NR_Resource_Utilization1.P_Nr_Res_Use_Fact_2.Smooth3.Integrator1.y",
   "Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[1]", percentvar}]
```

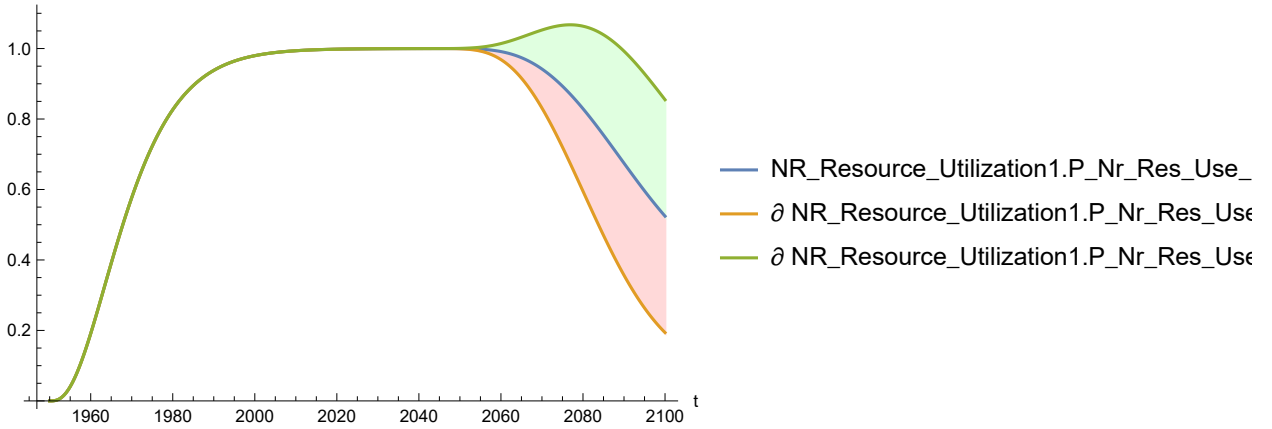
Out[209]=



In[210]:=

```
SystemModelPlot[simsensdata,
  {"NR_Resource_Utilization1.P_Nr_Res_Use_Fact_2.Smooth3.Integrator1.y",
   "Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[2]", percentvar}]
```

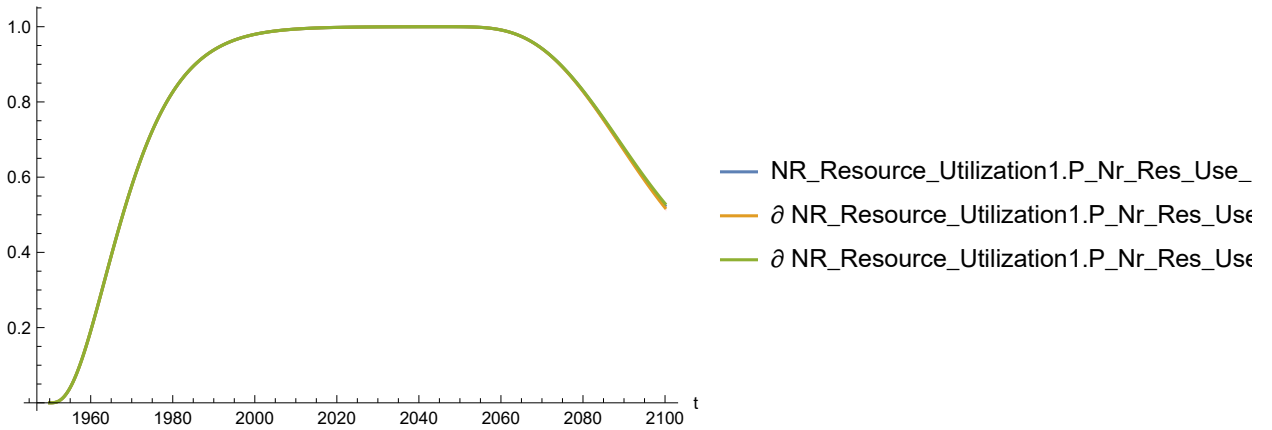
Out[210]=



In[211]:=

```
SystemModelPlot[simsensdata,
  {"NR_Resource_Utilization1.P_Nr_Res_Use_Fact_2.Smooth3.Integrator1.y",
   "Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[3]", percentvar}]
```

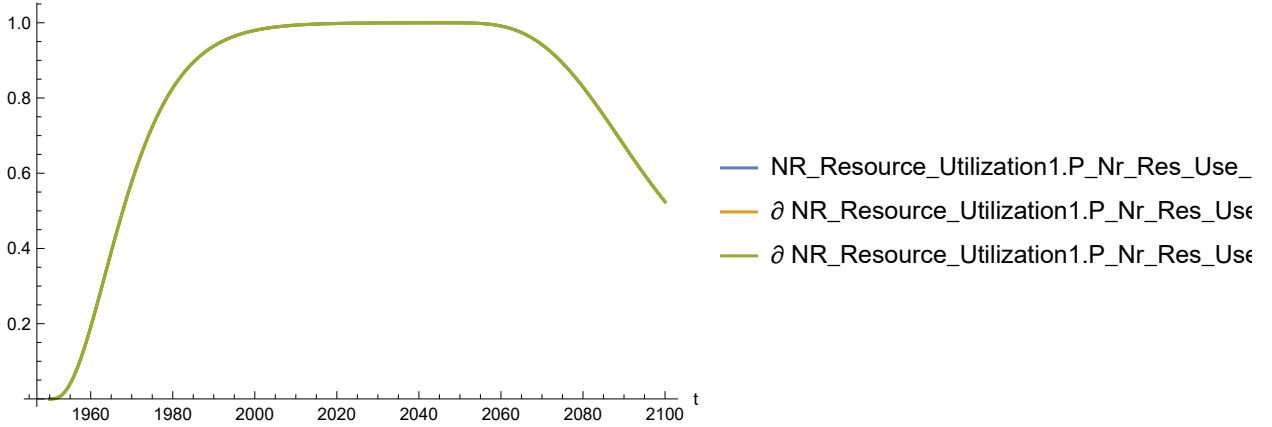
Out[211]=



In[212]:=

```
SystemModelPlot[simsensdata,
  {"NR_Resource_Utilization1.P_Nr_Res_Use_Fact_2.Smooth3.Integrator1.y",
   "Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[4]", percentvar}]
```

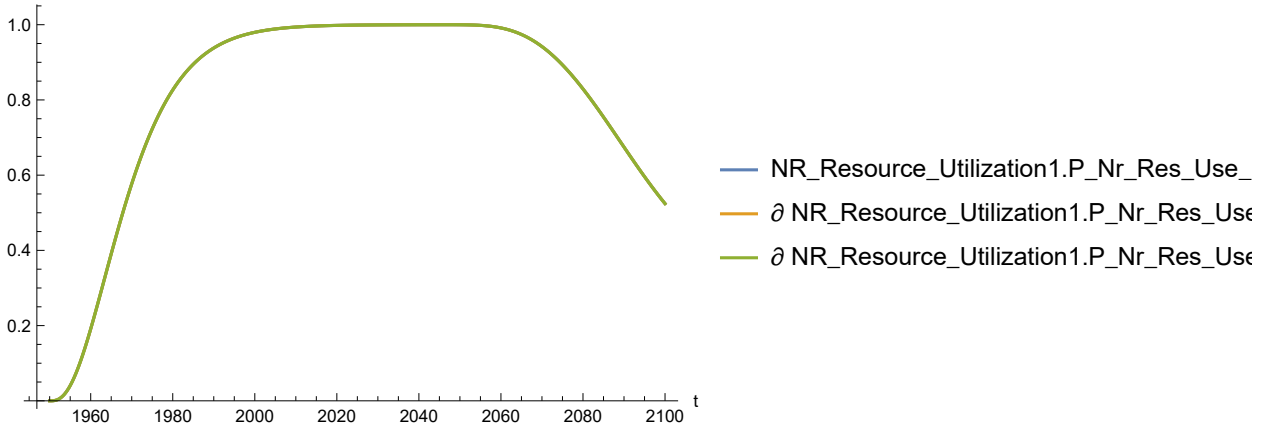
Out[212]=



In[213]:=

```
SystemModelPlot[simsensdata,
  {"NR_Resource_Utilization1.P_Nr_Res_Use_Fact_2.Smooth3.Integrator1.y",
   "Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[5]", percentvar}]
```

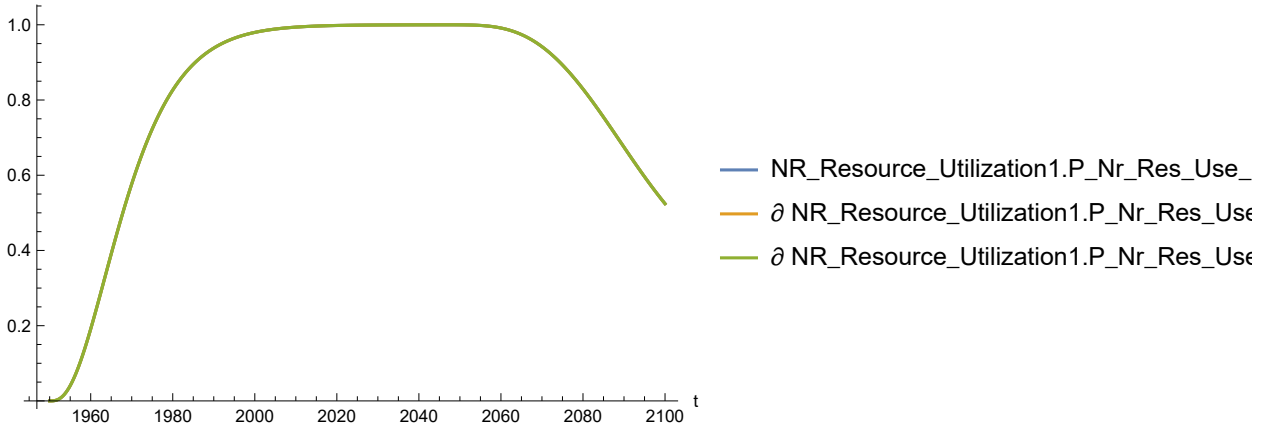
Out[213]=



In[214]:=

```
SystemModelPlot[simsensdata,
  {"NR_Resource_Utilization1.P_Nr_Res_Use_Fact_2.Smooth3.Integrator1.y",
   "Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[6]", percentvar}]
```

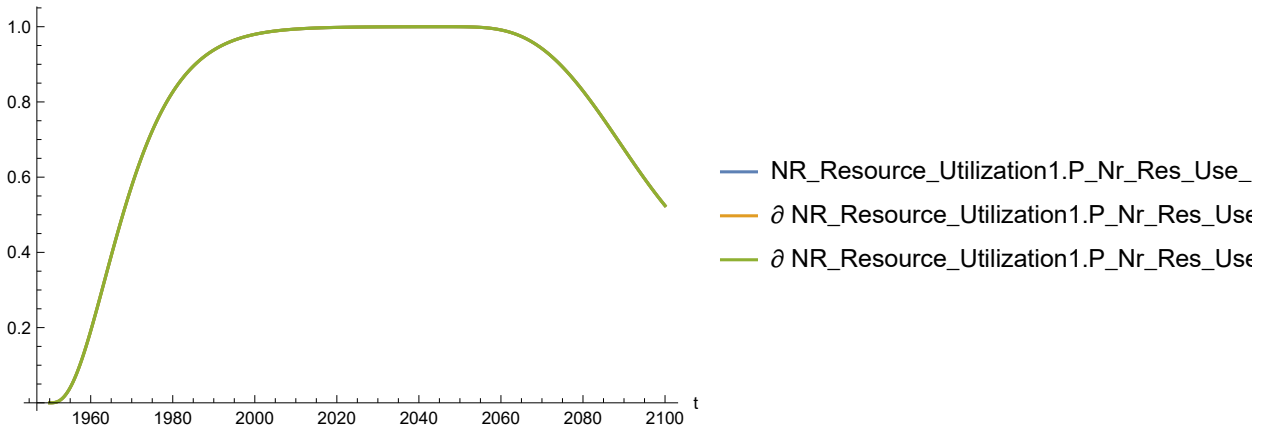
Out[214]=



In[215]:=

```
SystemModelPlot[simsensdata,
  {"NR_Resource_Utilization1.P_Nr_Res_Use_Fact_2.Smooth3.Integrator1.y",
   "Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[7]", percentvar}]
```

Out[215]=

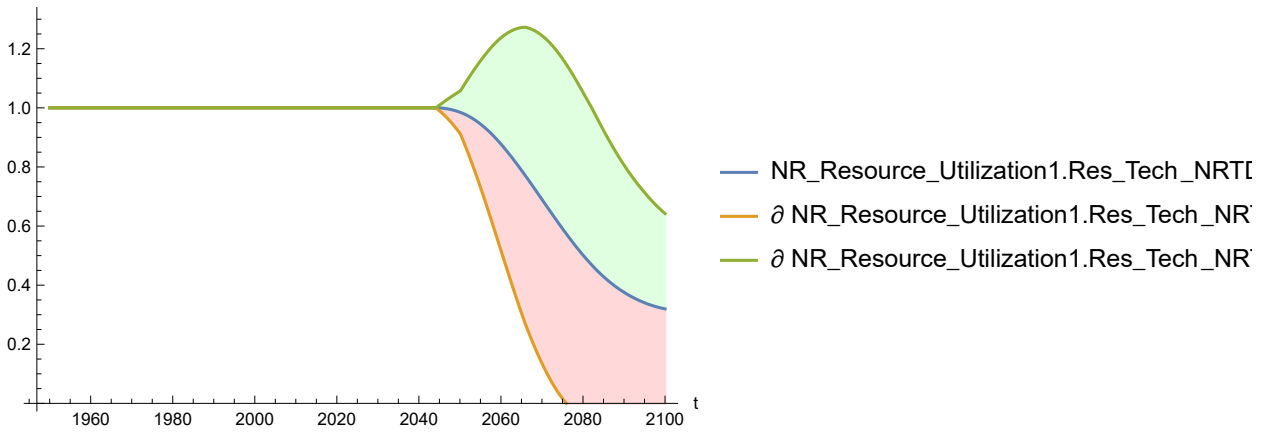


Plot the sensitivity of `NR_Resource_Utilization1.Res_Tech_NRTD.Integrator1.y` to `Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals`.

In[216]:=

```
SystemModelPlot[simsensdata, {"NR_Resource_Utilization1.Res_Tech_NRTD.Integrator1.y",
"Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[1]", percentvar}]
```

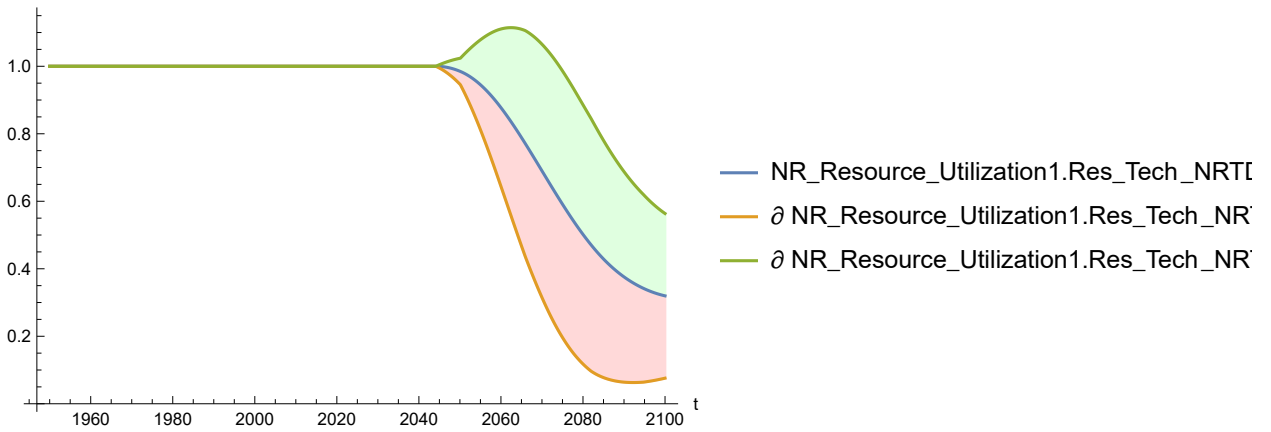
Out[216]=



In[217]:=

```
SystemModelPlot[simsensdata, {"NR_Resource_Utilization1.Res_Tech_NRTD.Integrator1.y",
"Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[2]", percentvar}]
```

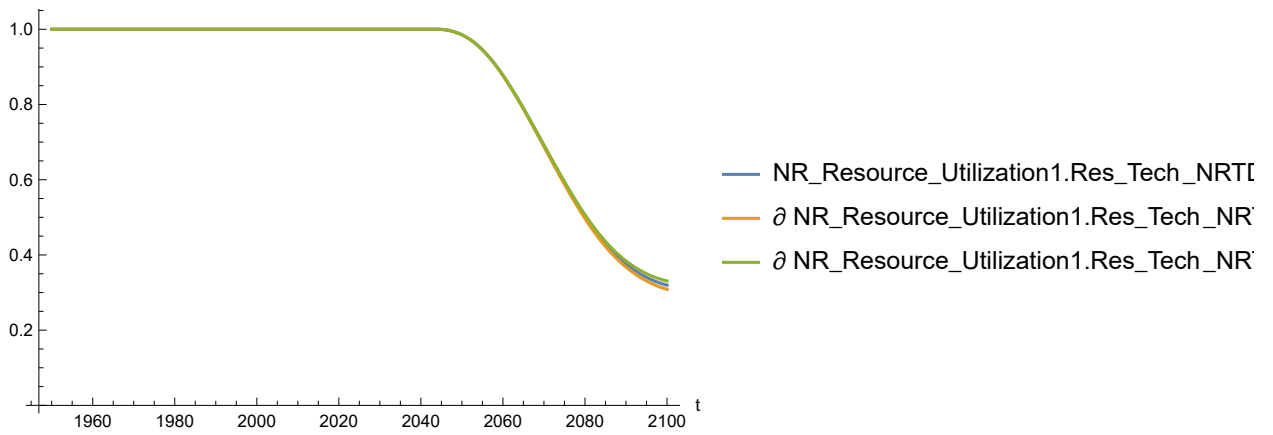
Out[217]=



In[218]:=

```
SystemModelPlot[simsensdata, {"NR_Resource_Utilization1.Res_Tech_NRTD.Integrator1.y",
    "Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[3]", percentvar}]
```

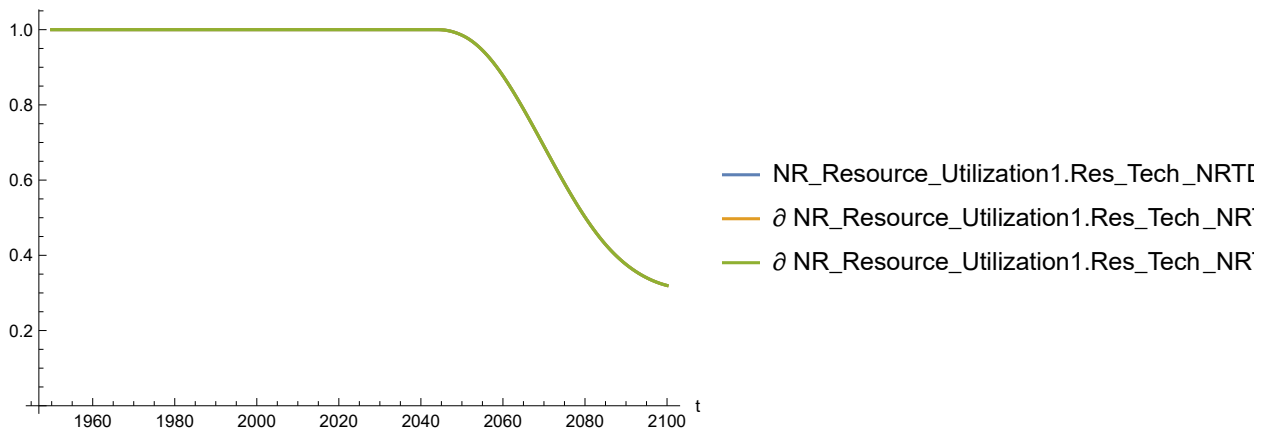
Out[218]=



In[219]:=

```
SystemModelPlot[simsensdata, {"NR_Resource_Utilization1.Res_Tech_NRTD.Integrator1.y",
    "Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[4]", percentvar}]
```

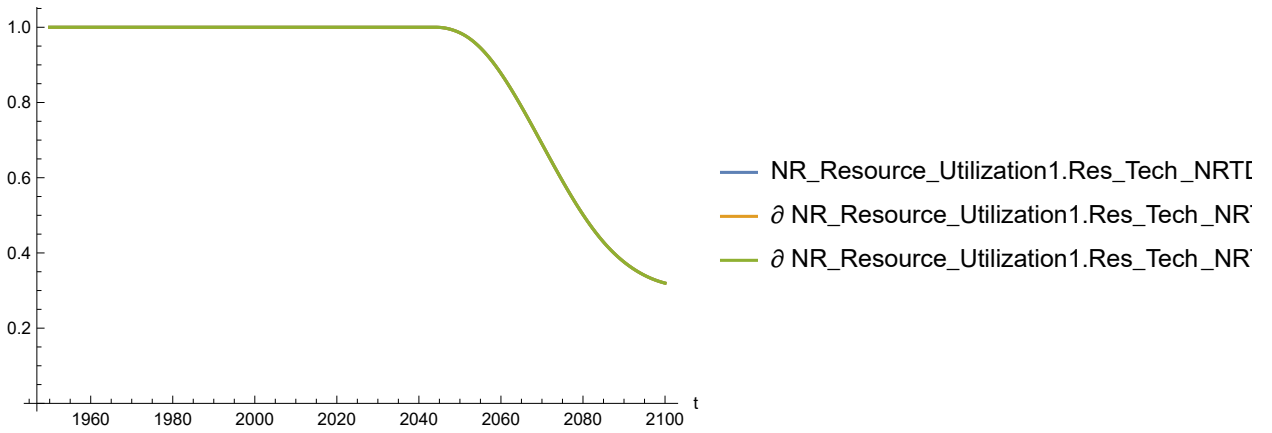
Out[219]=



In[220]:=

```
SystemModelPlot[simsensdata, {"NR_Resource_Utilization1.Res_Tech_NRTD.Integrator1.y",
"Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[5]", percentvar}]
```

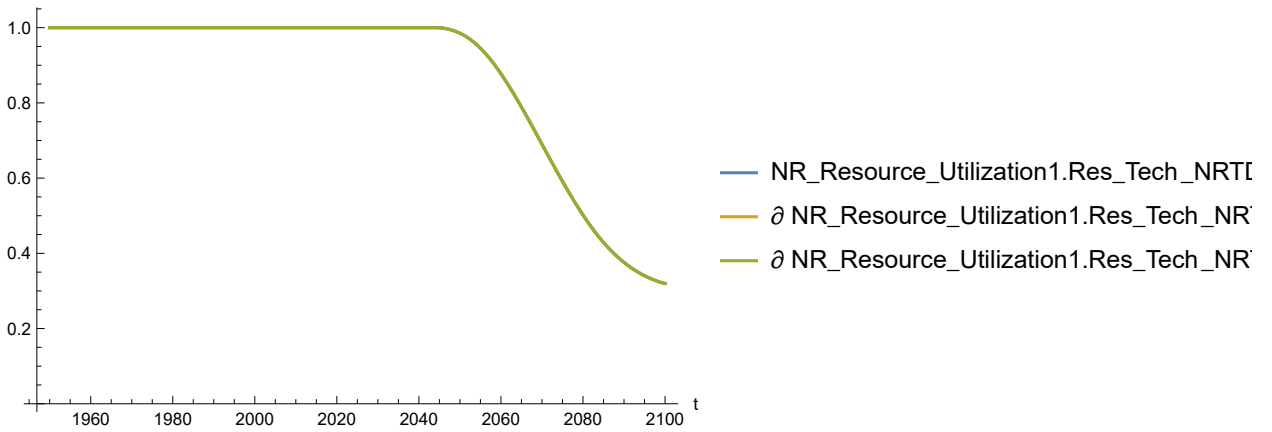
Out[220]=



In[221]:=

```
SystemModelPlot[simsensdata, {"NR_Resource_Utilization1.Res_Tech_NRTD.Integrator1.y",
"Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[6]", percentvar}]
```

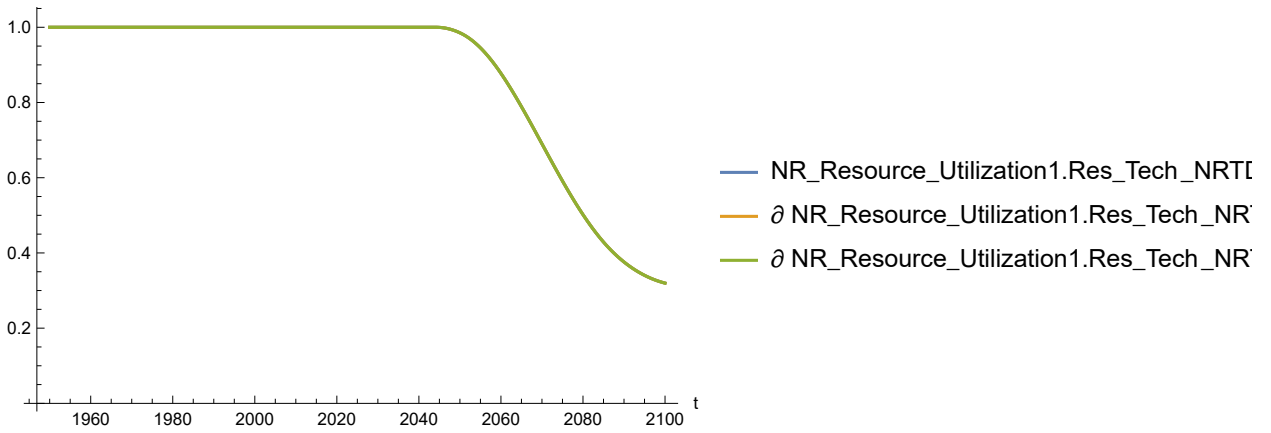
Out[221]=



In[222]:=

```
SystemModelPlot[simsensdata, {"NR_Resource_Utilization1.Res_Tech_NRTD.Integrator1.y",
"Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[7]", percentvar}]
```

Out[222]=

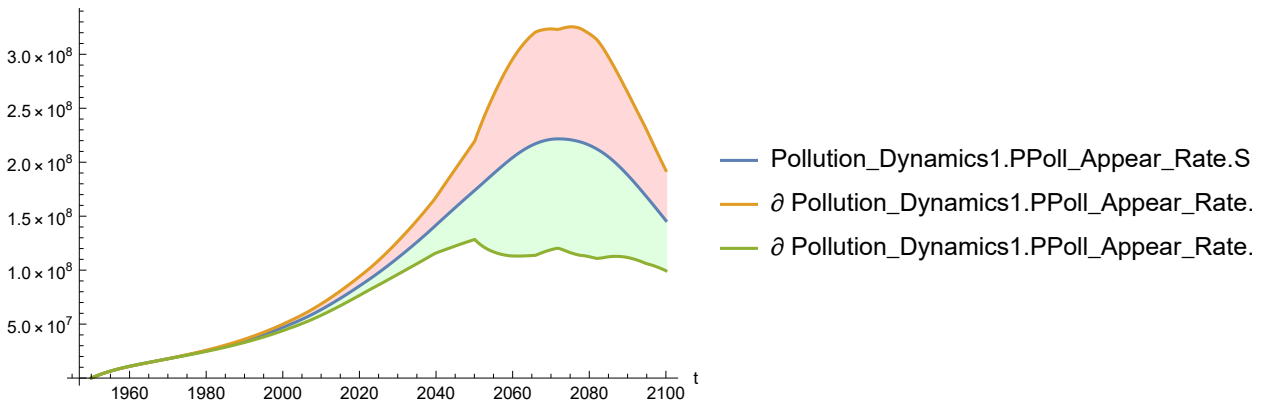


Plot the sensitivity of Pollution_Dynamics1.PPoll_Appear_Rate.Smooth1.Integrator1.y to Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals.

In[223]:=

```
SystemModelPlot[simsensdata,
{"Pollution_Dynamics1.PPoll_Appear_Rate.Smooth1.Integrator1.y",
"Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[1]", percentvar}]
```

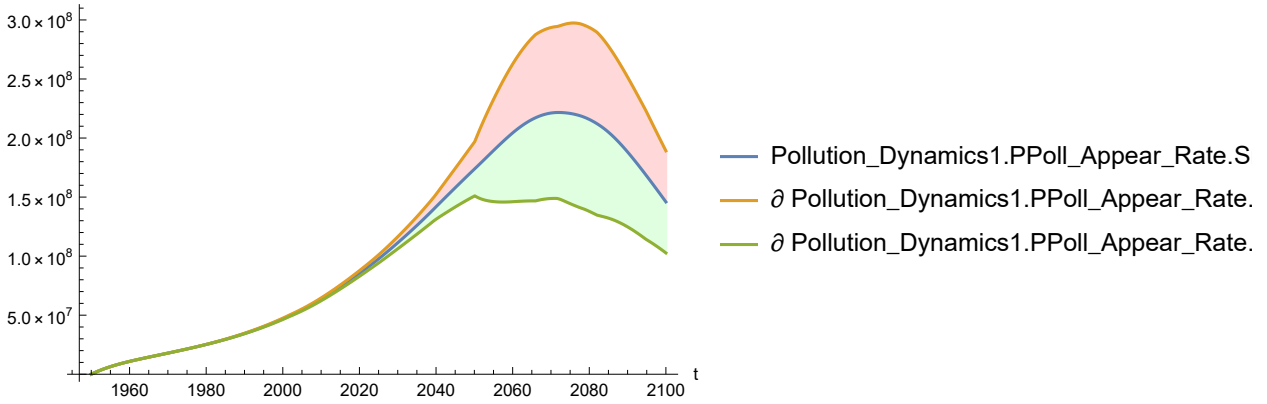
Out[223]=



In[224]:=

```
SystemModelPlot[simsensdata,
  {"Pollution_Dynamics1.PPoll_Appear_Rate.Smooth1.Integrator1.y",
   "Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[2]", percentvar}]
```

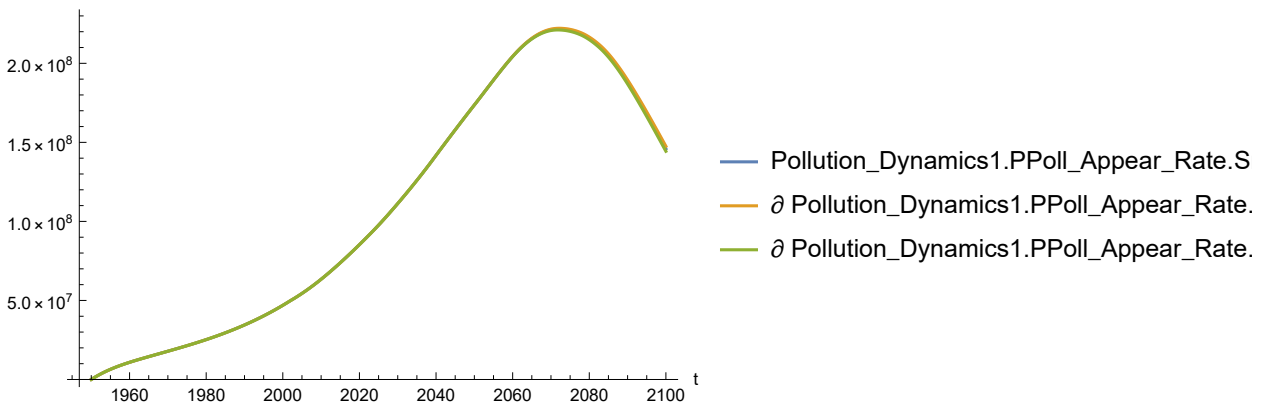
Out[224]=



In[225]:=

```
SystemModelPlot[simsensdata,
  {"Pollution_Dynamics1.PPoll_Appear_Rate.Smooth1.Integrator1.y",
   "Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[3]", percentvar}]
```

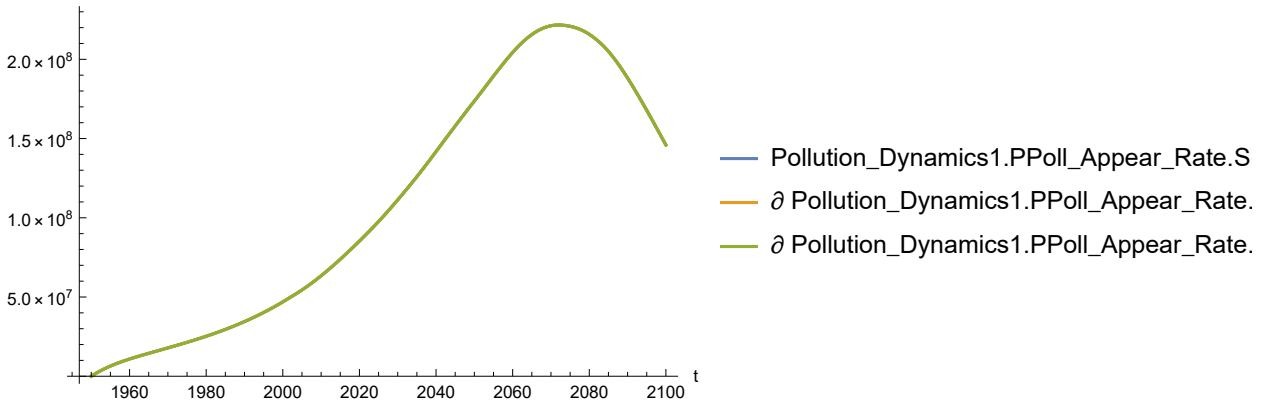
Out[225]=



In[226]:=

```
SystemModelPlot[simsensdata,
  {"Pollution_Dynamics1.PPoll_Appear_Rate.Smooth1.Integrator1.y",
   "Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[4]", percentvar}]
```

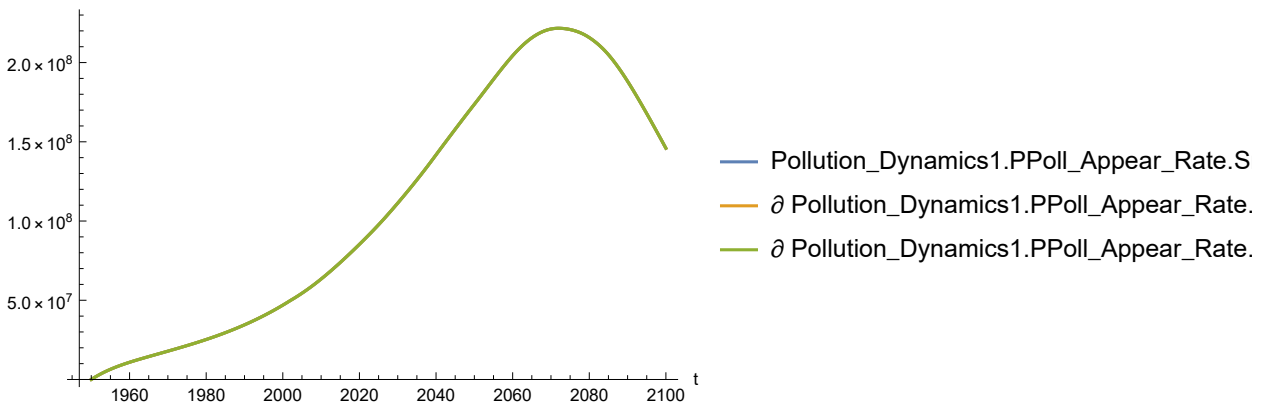
Out[226]=



In[227]:=

```
SystemModelPlot[simsensdata,
  {"Pollution_Dynamics1.PPoll_Appear_Rate.Smooth1.Integrator1.y",
   "Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[5]", percentvar}]
```

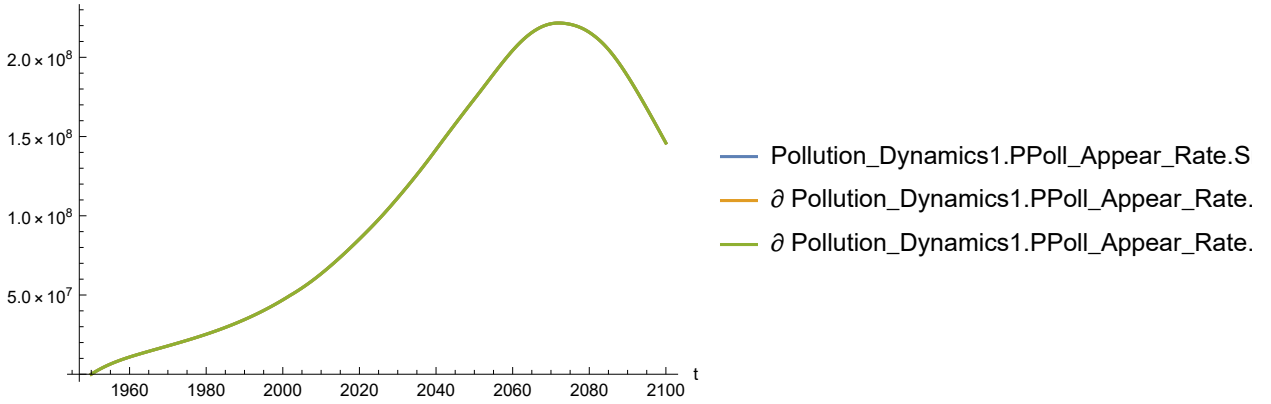
Out[227]=



In[228]:=

```
SystemModelPlot[simsensdata,
  {"Pollution_Dynamics1.PPoll_Appear_Rate.Smooth1.Integrator1.y",
   "Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[6]", percentvar}]
```

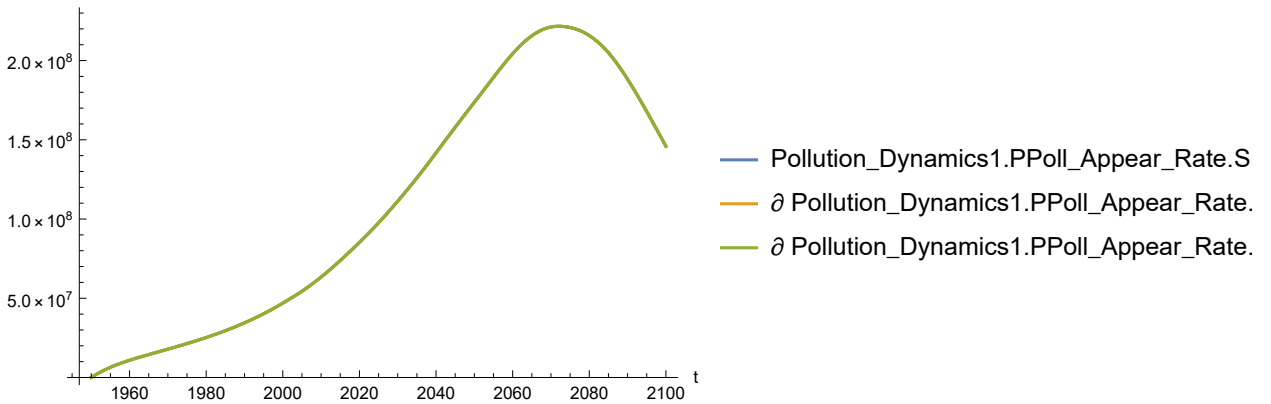
Out[228]=



In[229]:=

```
SystemModelPlot[simsensdata,
  {"Pollution_Dynamics1.PPoll_Appear_Rate.Smooth1.Integrator1.y",
   "Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[7]", percentvar}]
```

Out[229]=

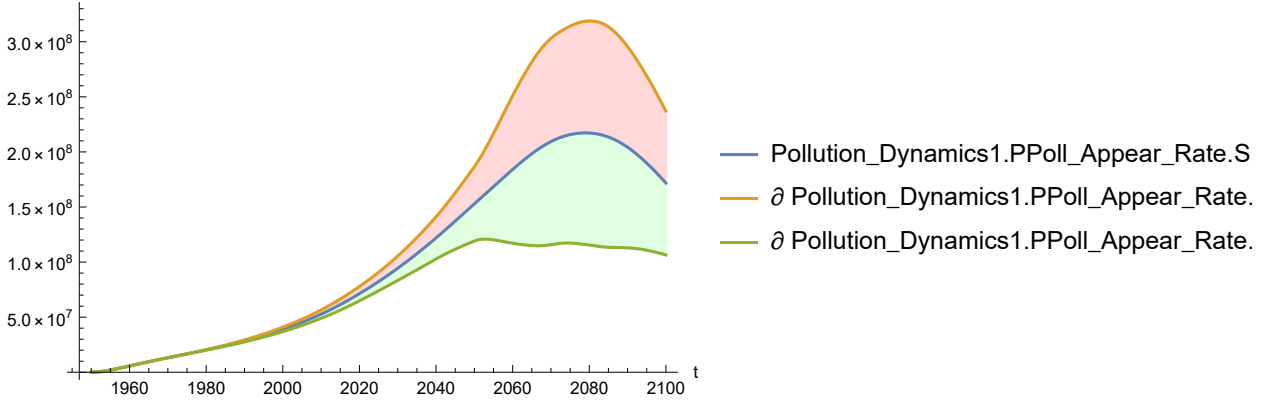


Plot the sensitivity of Pollution_Dynamics1.PPoll_Appear_Rate.Smooth2.Integrator1.y to Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals.

In[230]:=

```
SystemModelPlot[simsensdata,
  {"Pollution_Dynamics1.PPoll_Appear_Rate.Smooth2.Integrator1.y",
   "Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[1]", percentvar}]
```

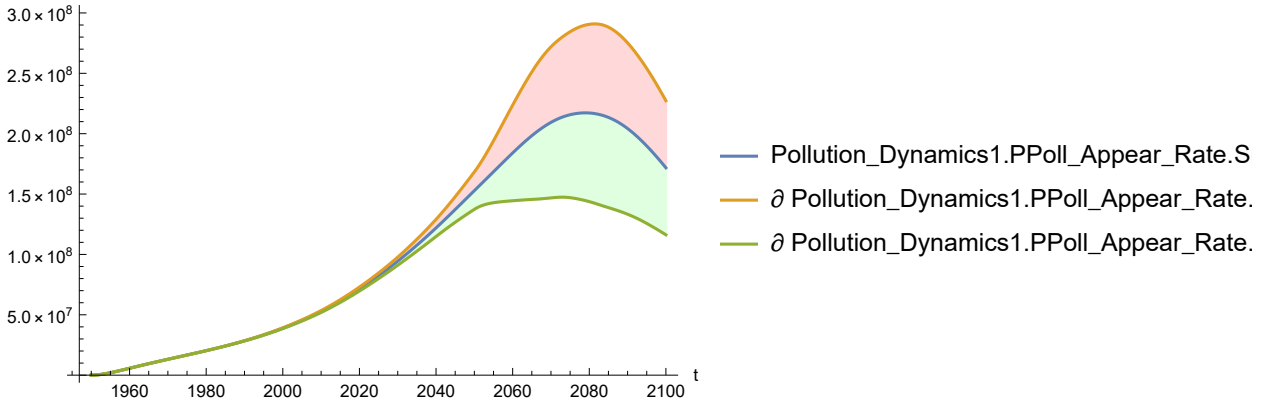
Out[230]=



In[231]:=

```
SystemModelPlot[simsensdata,
  {"Pollution_Dynamics1.PPoll_Appear_Rate.Smooth2.Integrator1.y",
   "Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[2]", percentvar}]
```

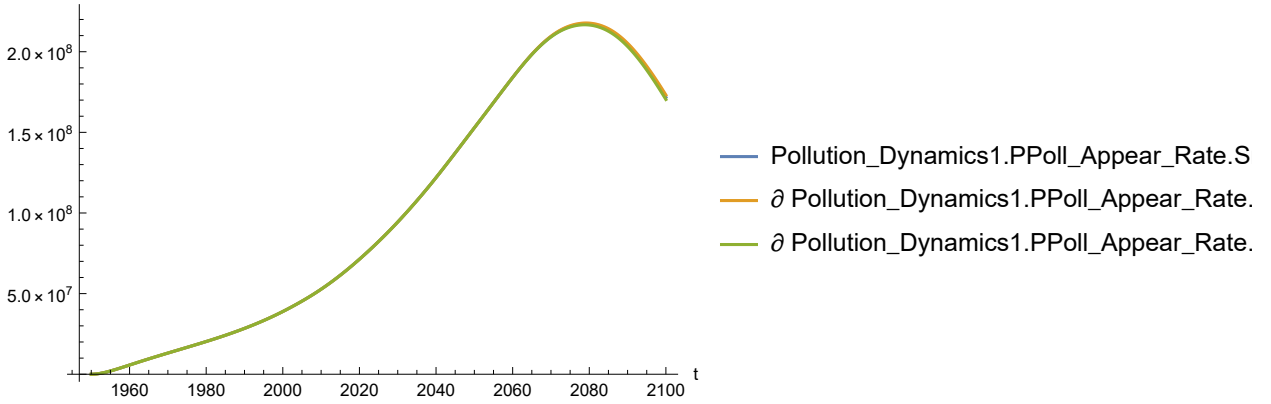
Out[231]=



In[232]:=

```
SystemModelPlot[simsensdata,
  {"Pollution_Dynamics1.PPoll_Appear_Rate.Smooth2.Integrator1.y",
   "Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[3]", percentvar}]
```

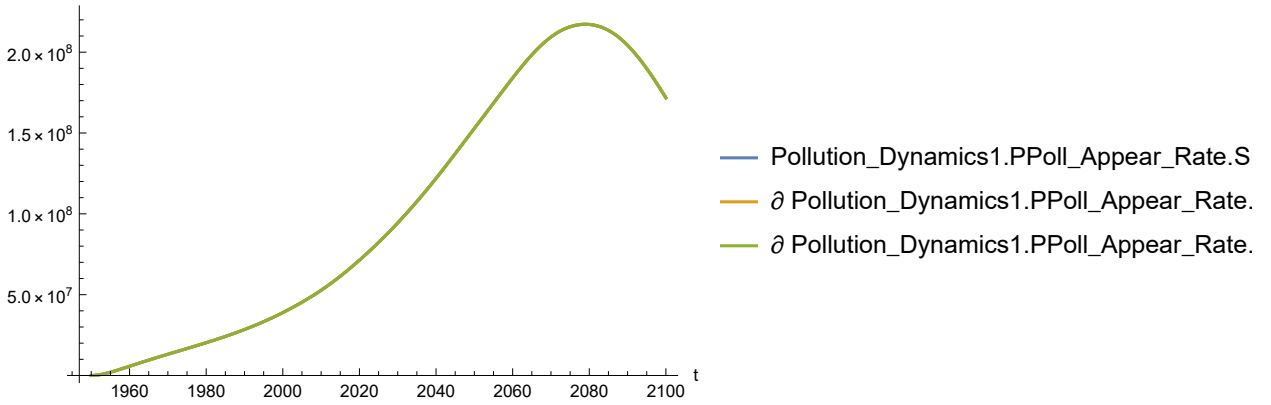
Out[232]=



In[233]:=

```
SystemModelPlot[simsensdata,
  {"Pollution_Dynamics1.PPoll_Appear_Rate.Smooth2.Integrator1.y",
   "Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[4]", percentvar}]
```

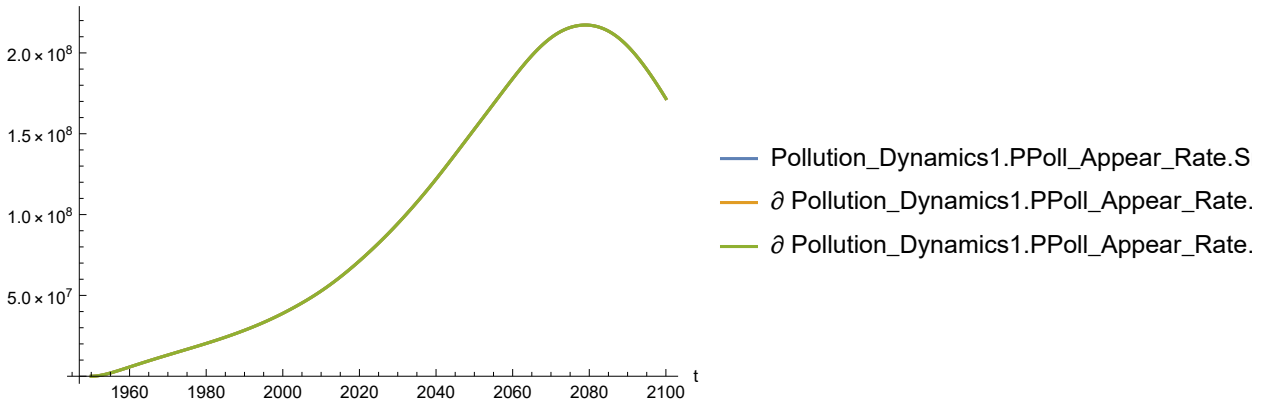
Out[233]=



In[234]:=

```
SystemModelPlot[simsensdata,
  {"Pollution_Dynamics1.PPoll_Appear_Rate.Smooth2.Integrator1.y",
   "Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[5]", percentvar}]
```

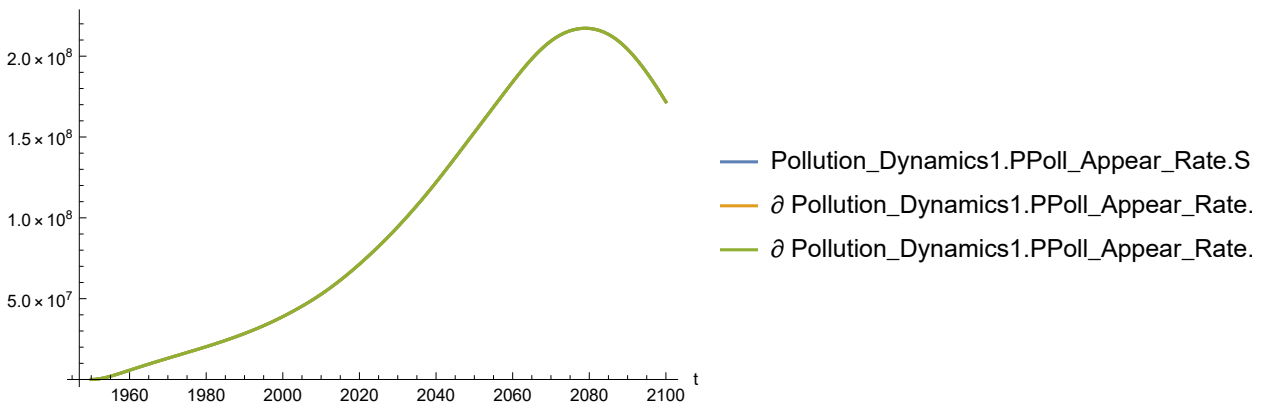
Out[234]=



In[235]:=

```
SystemModelPlot[simsensdata,
  {"Pollution_Dynamics1.PPoll_Appear_Rate.Smooth2.Integrator1.y",
   "Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[6]", percentvar}]
```

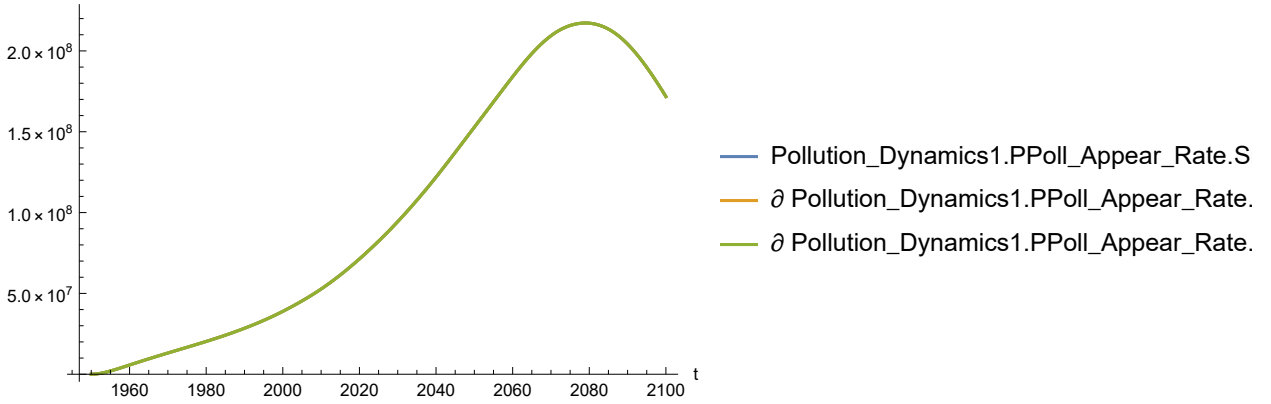
Out[235]=



In[236]:=

```
SystemModelPlot[simsensdata,
  {"Pollution_Dynamics1.PPoll_Appear_Rate.Smooth2.Integrator1.y",
   "Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[7]", percentvar}]
```

Out[236]=

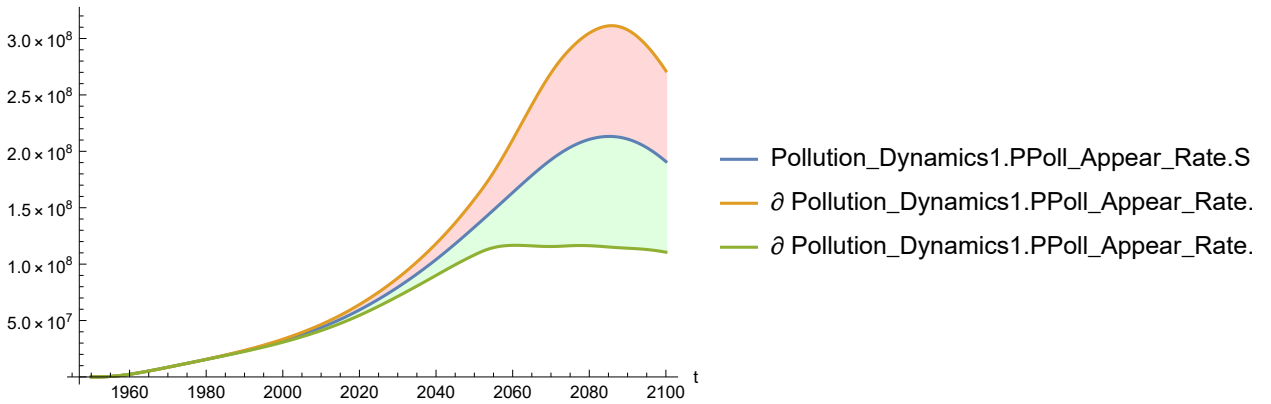


Plot the sensitivity of Pollution_Dynamics1.PPoll_Appear_Rate.Smooth3.Integrator1.y to Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals.

In[237]:=

```
SystemModelPlot[simsensdata,
  {"Pollution_Dynamics1.PPoll_Appear_Rate.Smooth3.Integrator1.y",
   "Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[1]", percentvar}]
```

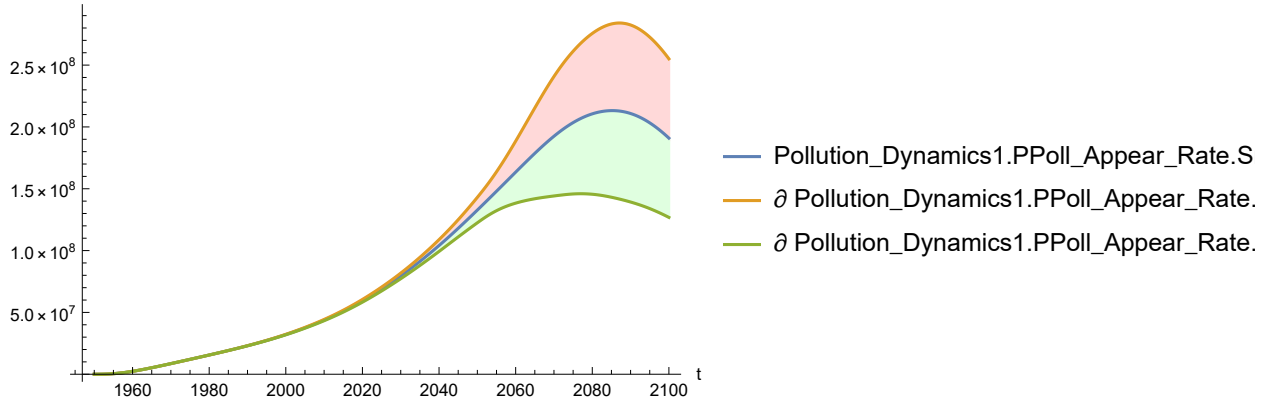
Out[237]=



In[238]:=

```
SystemModelPlot[simsensdata,
  {"Pollution_Dynamics1.PPoll_Appear_Rate.Smooth3.Integrator1.y",
   "Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[2]", percentvar}]
```

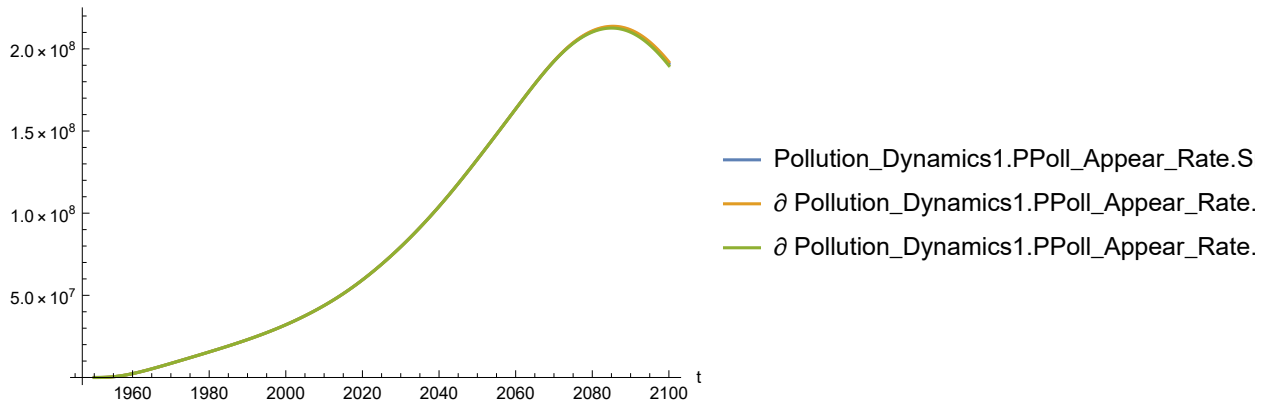
Out[238]=



In[239]:=

```
SystemModelPlot[simsensdata,
  {"Pollution_Dynamics1.PPoll_Appear_Rate.Smooth3.Integrator1.y",
   "Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[3]", percentvar}]
```

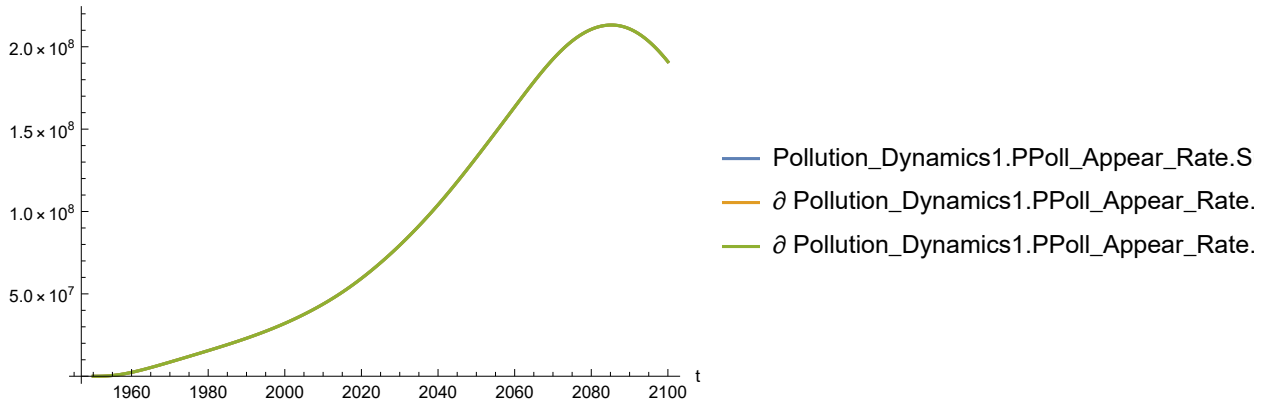
Out[239]=



In[240]:=

```
SystemModelPlot[simsensdata,
  {"Pollution_Dynamics1.PPoll_Appear_Rate.Smooth3.Integrator1.y",
   "Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[4]", percentvar}]
```

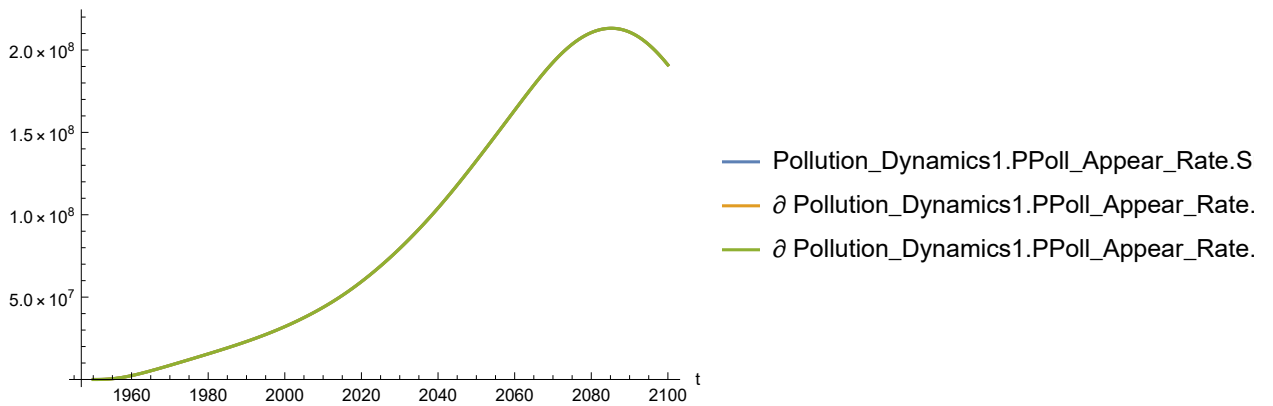
Out[240]=



In[241]:=

```
SystemModelPlot[simsensdata,
  {"Pollution_Dynamics1.PPoll_Appear_Rate.Smooth3.Integrator1.y",
   "Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[5]", percentvar}]
```

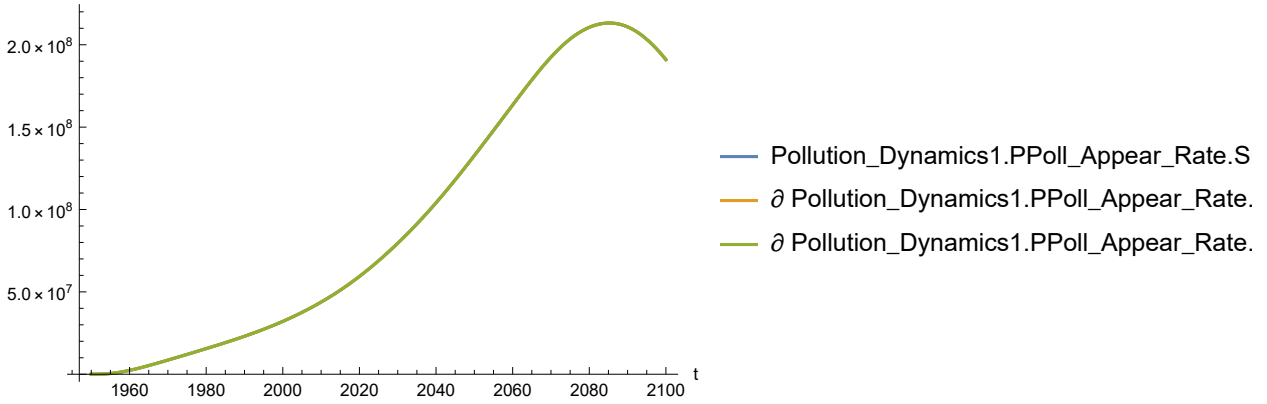
Out[241]=



In[242]:=

```
SystemModelPlot[simsensdata,
  {"Pollution_Dynamics1.PPoll_Appear_Rate.Smooth3.Integrator1.y",
   "Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[6]", percentvar}]
```

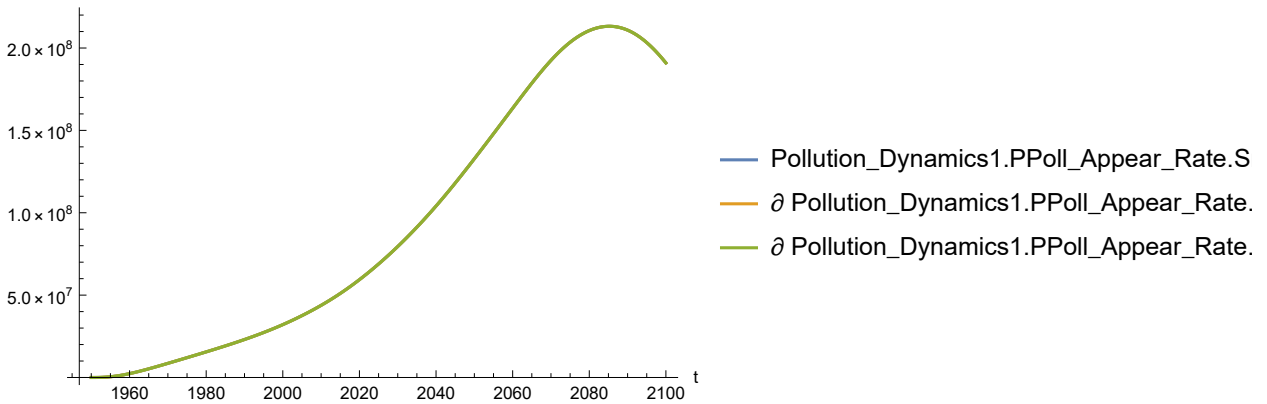
Out[242]=



In[243]:=

```
SystemModelPlot[simsensdata,
  {"Pollution_Dynamics1.PPoll_Appear_Rate.Smooth3.Integrator1.y",
   "Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[7]", percentvar}]
```

Out[243]=

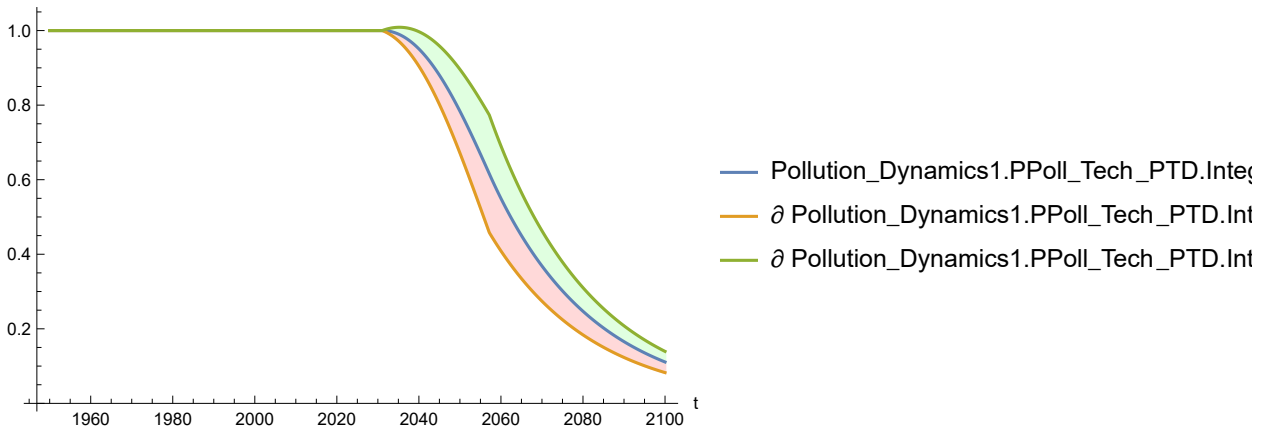


Plot the sensitivity of Pollution_Dynamics1.PPoll_Tech_PTD.Integrator1.y to Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals.

In[244]:=

```
SystemModelPlot[simsensdata, {"Pollution_Dynamics1.PPoll_Tech_PTD.Integrator1.y",
"Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[1]", percentvar}]
```

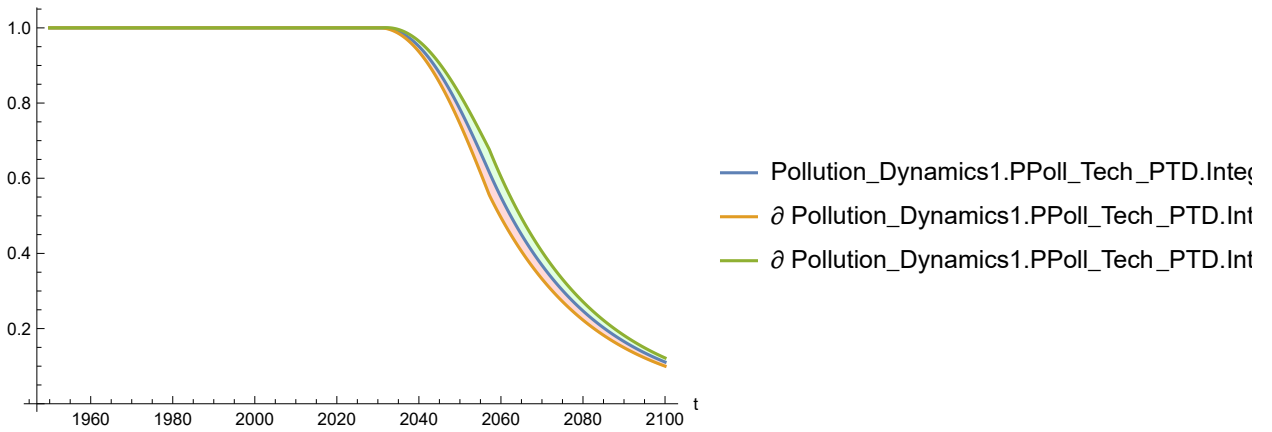
Out[244]:=



In[245]:=

```
SystemModelPlot[simsensdata, {"Pollution_Dynamics1.PPoll_Tech_PTD.Integrator1.y",
"Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[2]", percentvar}]
```

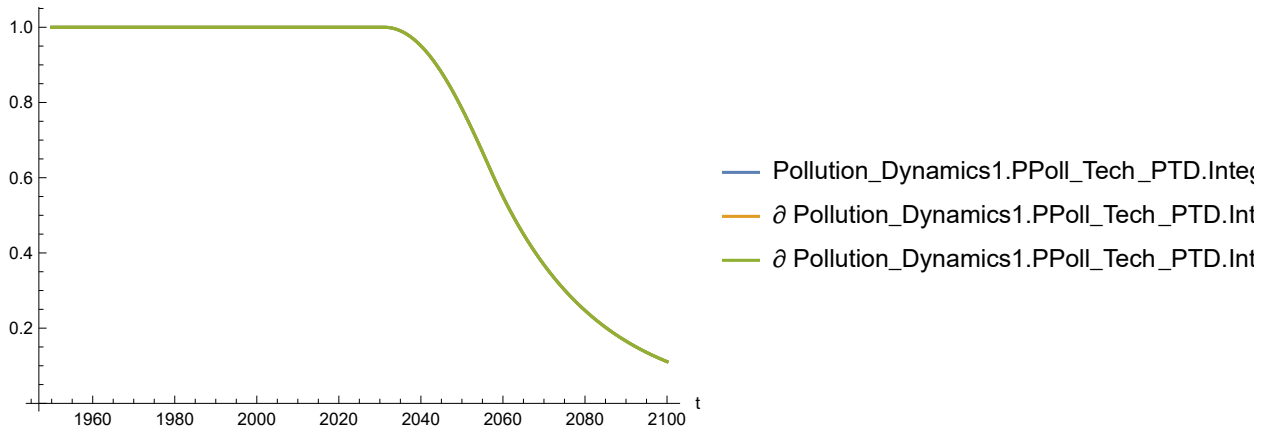
Out[245]:=



In[246]:=

```
SystemModelPlot[simsensdata, {"Pollution_Dynamics1.PPoll_Tech_PTD.Integrator1.y",
"Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[3]", percentvar}]
```

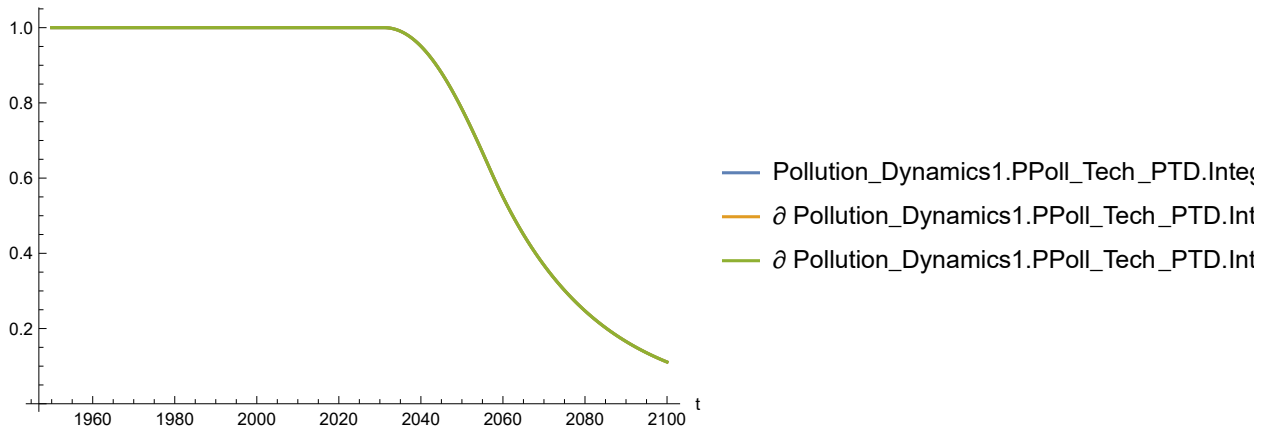
Out[246]=



In[247]:=

```
SystemModelPlot[simsensdata, {"Pollution_Dynamics1.PPoll_Tech_PTD.Integrator1.y",
"Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[4]", percentvar}]
```

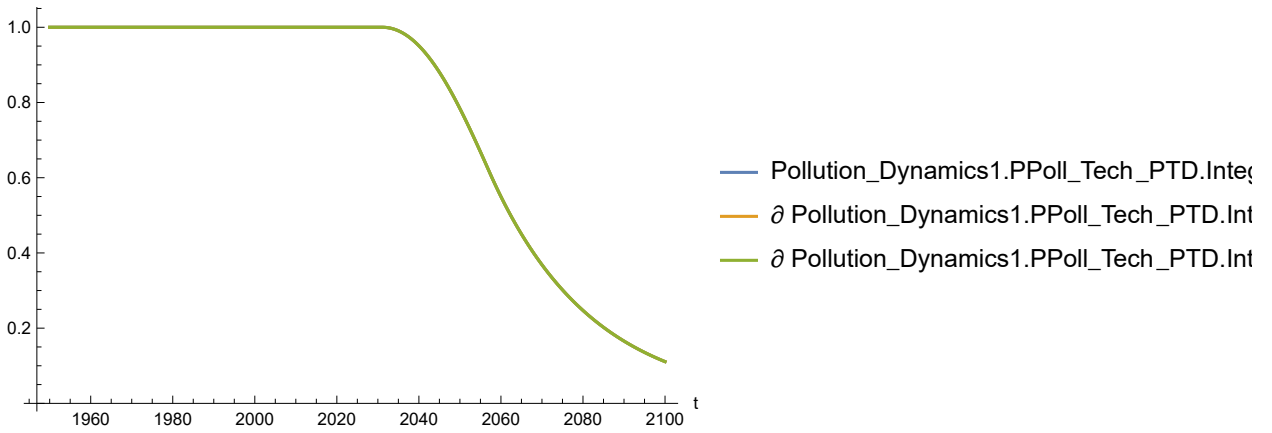
Out[247]=



In[248]:=

```
SystemModelPlot[simsensdata, {"Pollution_Dynamics1.PPoll_Tech_PTD.Integrator1.y",
"Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[5]", percentvar}]
```

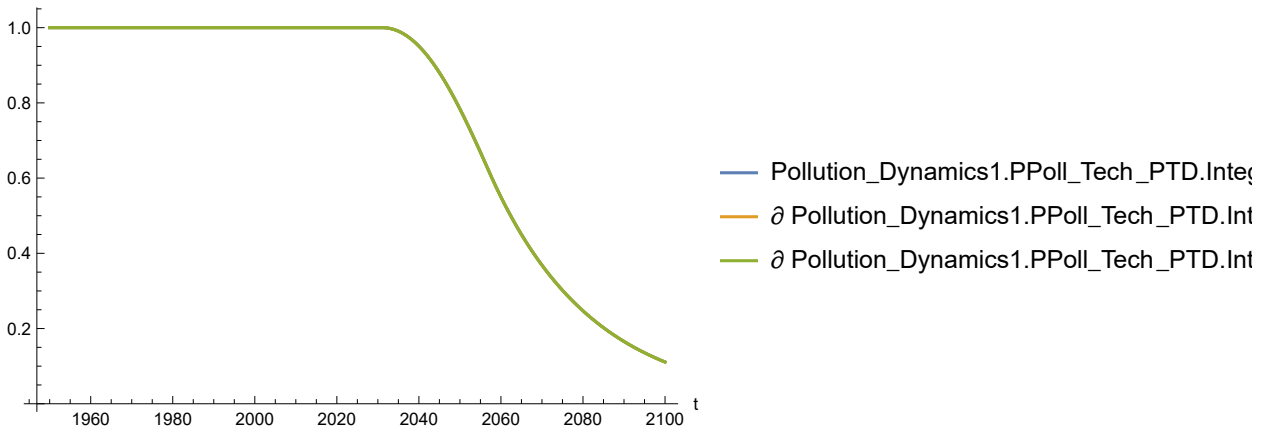
Out[248]=



In[249]:=

```
SystemModelPlot[simsensdata, {"Pollution_Dynamics1.PPoll_Tech_PTD.Integrator1.y",
"Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[6]", percentvar}]
```

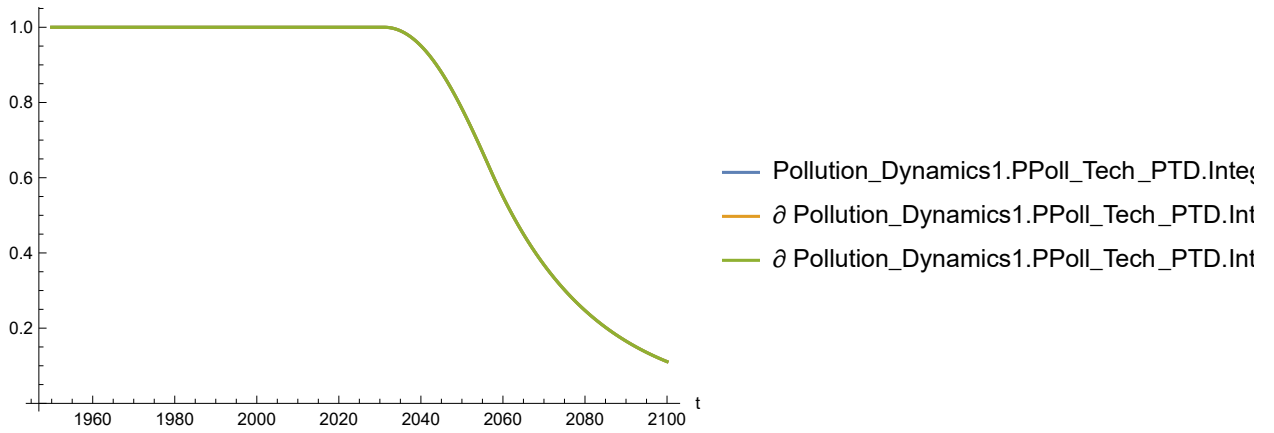
Out[249]=



In[250]:=

```
SystemModelPlot[simsensdata, {"Pollution_Dynamics1.PPoll_Tech_PTD.Integrator1.y",
"Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[7]", percentvar}]]
```

Out[250]=

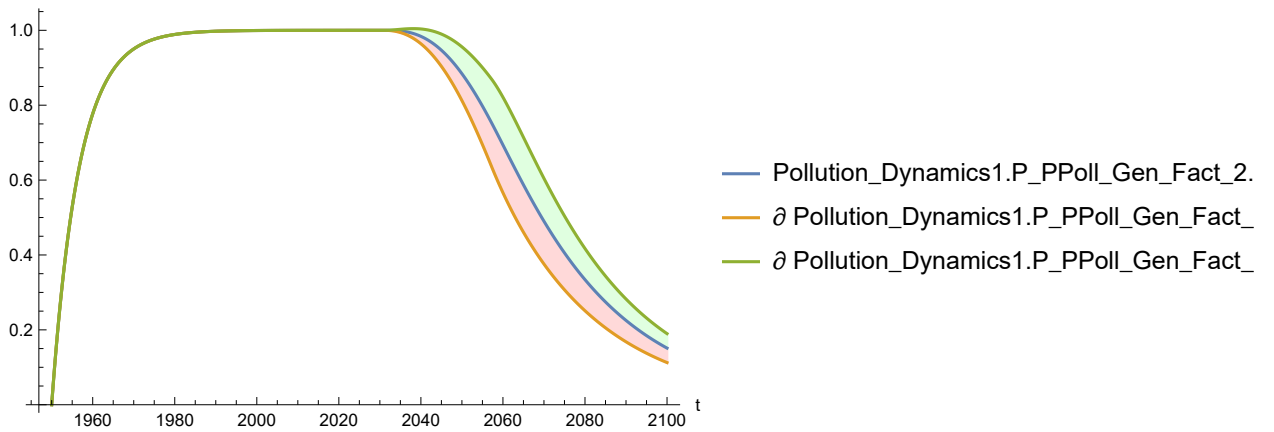


Plot the sensitivity of Pollution_Dynamics1.P_PPoll_Gen_Fact_2.Smooth1.Integrator1.y to Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals.

In[251]:=

```
SystemModelPlot[simsensdata,
{"Pollution_Dynamics1.P_PPoll_Gen_Fact_2.Smooth1.Integrator1.y",
"Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[1]", percentvar}]]
```

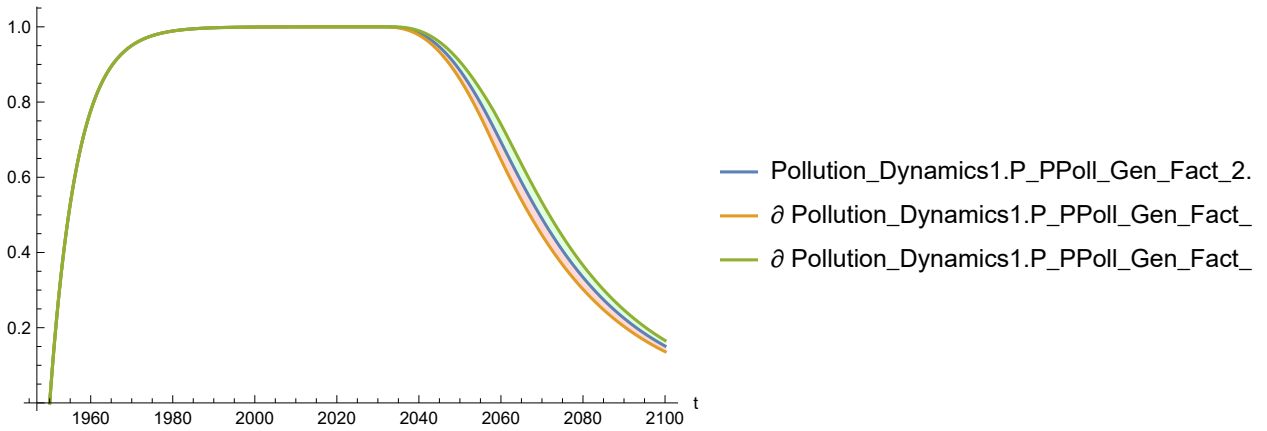
Out[251]=



In[252]:=

```
SystemModelPlot[simsensdata,
  {"Pollution_Dynamics1.P_PPoll_Gen_Fact_2.Smooth1.Integrator1.y",
   "Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[2]", percentvar}]
```

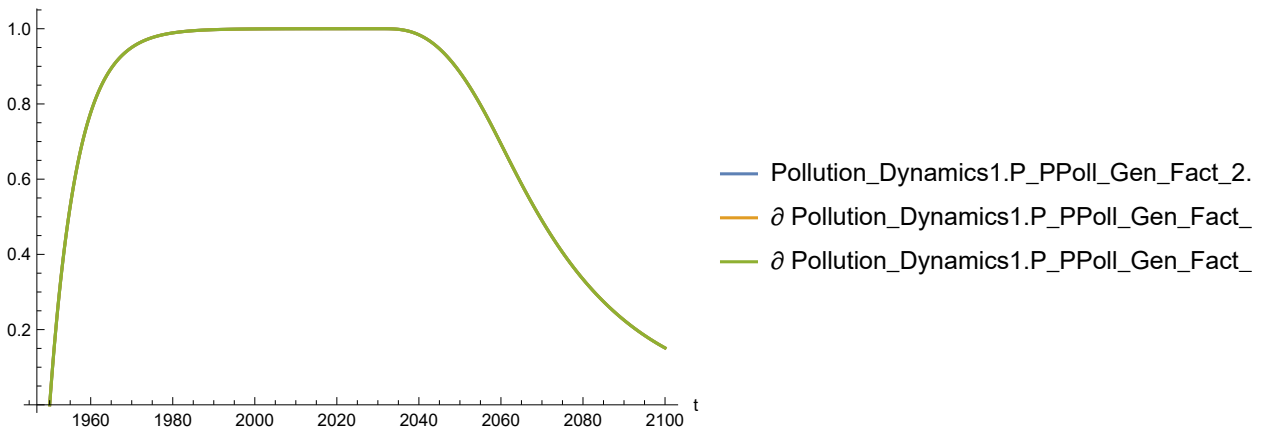
Out[252]=



In[253]:=

```
SystemModelPlot[simsensdata,
  {"Pollution_Dynamics1.P_PPoll_Gen_Fact_2.Smooth1.Integrator1.y",
   "Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[3]", percentvar}]
```

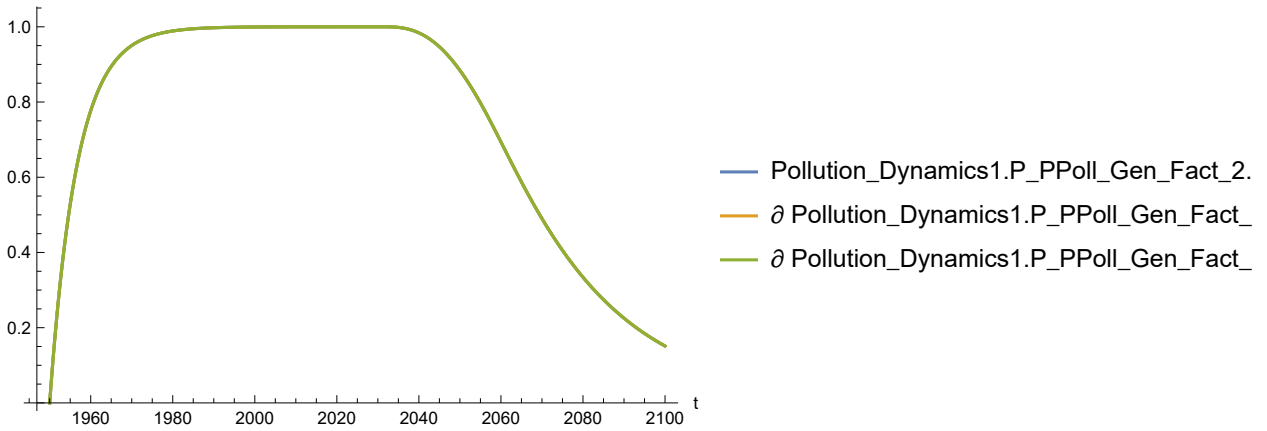
Out[253]=



In[254]:=

```
SystemModelPlot[simsensdata,
  {"Pollution_Dynamics1.P_PPoll_Gen_Fact_2.Smooth1.Integrator1.y",
   "Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[4]", percentvar}]
```

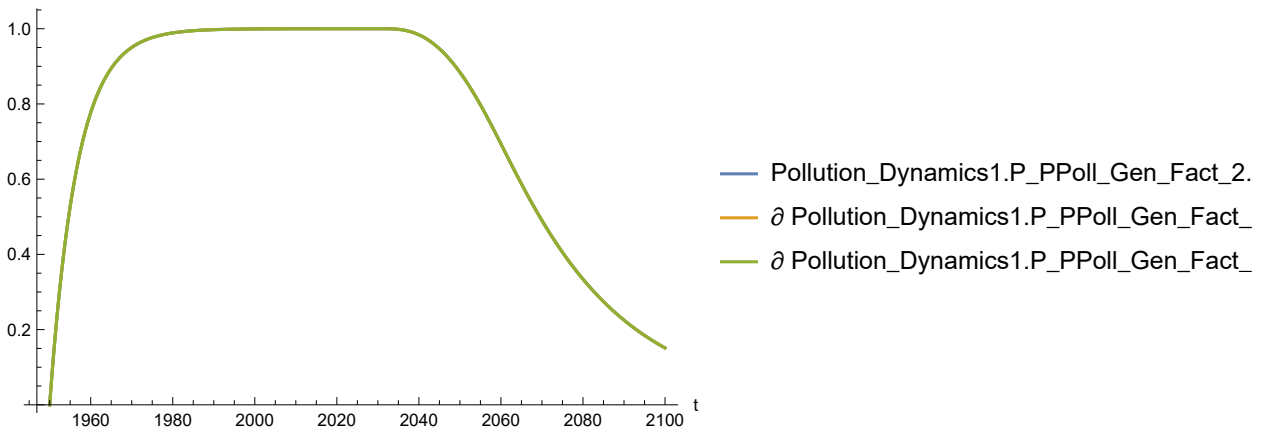
Out[254]=



In[255]:=

```
SystemModelPlot[simsensdata,
  {"Pollution_Dynamics1.P_PPoll_Gen_Fact_2.Smooth1.Integrator1.y",
   "Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[5]", percentvar}]
```

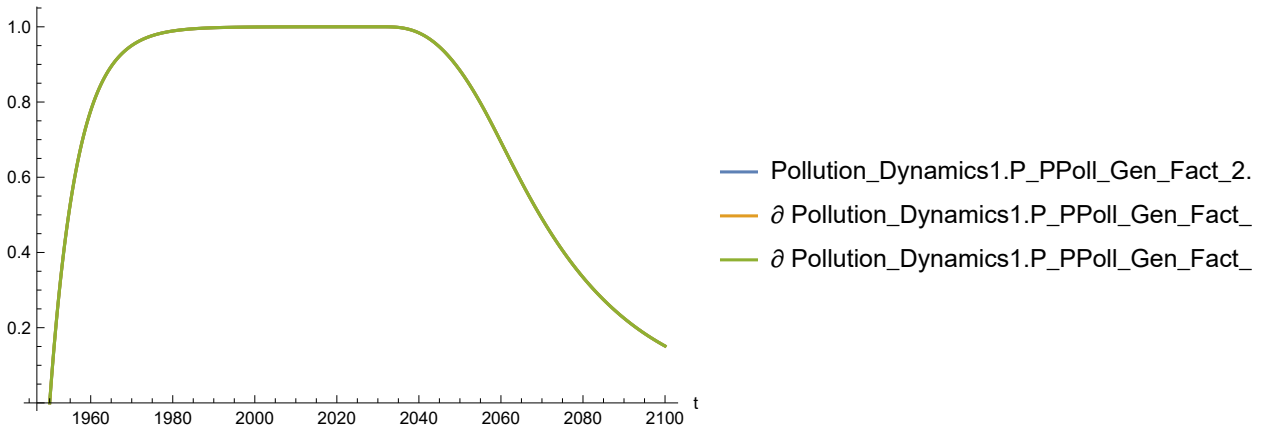
Out[255]=



In[256]:=

```
SystemModelPlot[simsensdata,
  {"Pollution_Dynamics1.P_PPoll_Gen_Fact_2.Smooth1.Integrator1.y",
   "Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[6]", percentvar}]
```

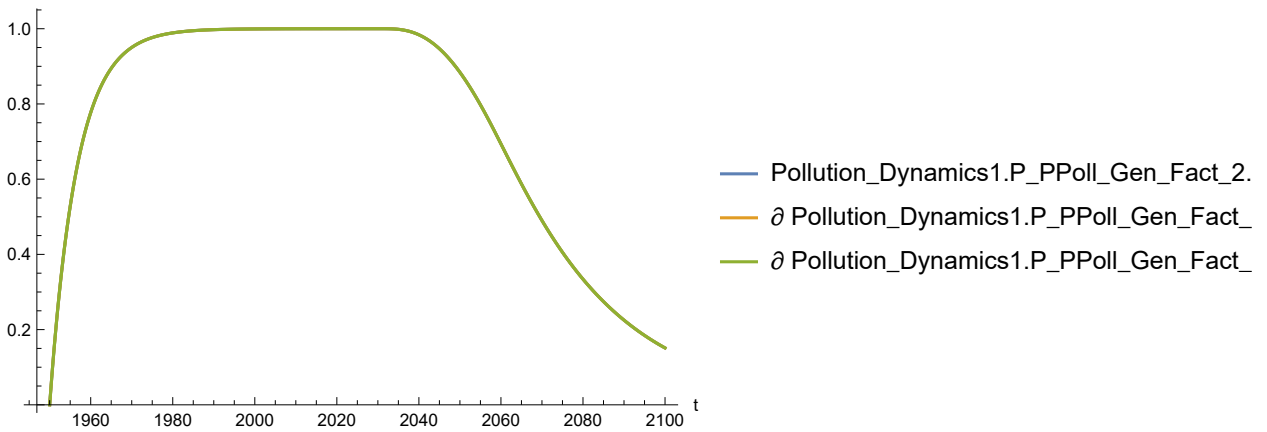
Out[256]=



In[257]:=

```
SystemModelPlot[simsensdata,
  {"Pollution_Dynamics1.P_PPoll_Gen_Fact_2.Smooth1.Integrator1.y",
   "Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[7]", percentvar}]
```

Out[257]=

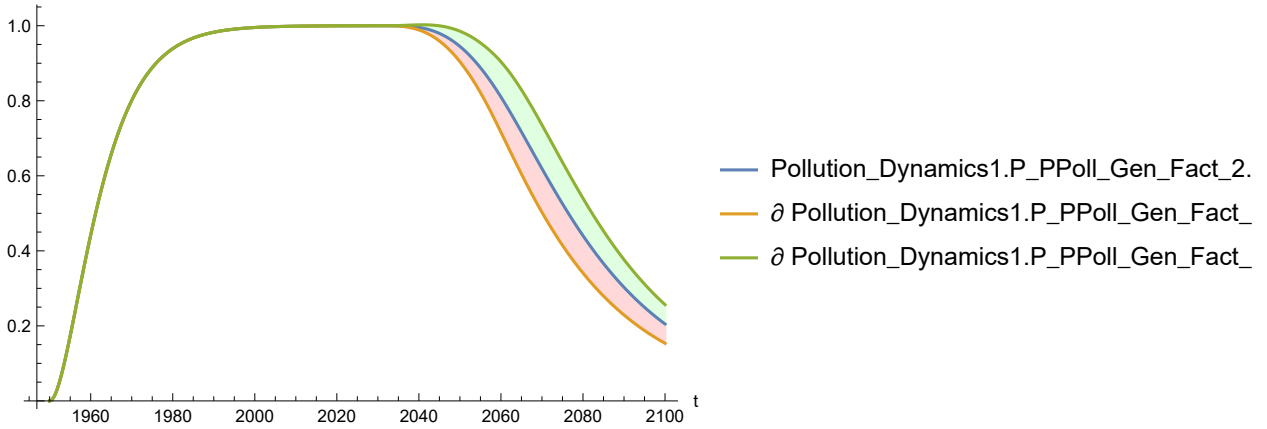


Plot the sensitivity of Pollution_Dynamics1.P_PPoll_Gen_Fact_2.Smooth2.Integrator1.y to Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals.

In[258]:=

```
SystemModelPlot[simsensdata,
  {"Pollution_Dynamics1.P_PPoll_Gen_Fact_2.Smooth2.Integrator1.y",
   "Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[1]", percentvar}]
```

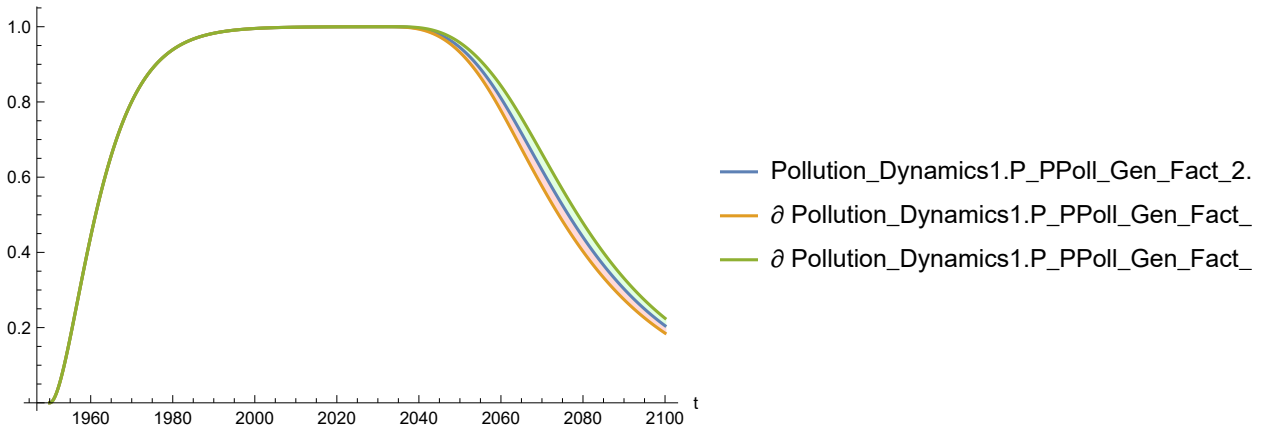
Out[258]=



In[259]:=

```
SystemModelPlot[simsensdata,
  {"Pollution_Dynamics1.P_PPoll_Gen_Fact_2.Smooth2.Integrator1.y",
   "Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[2]", percentvar}]
```

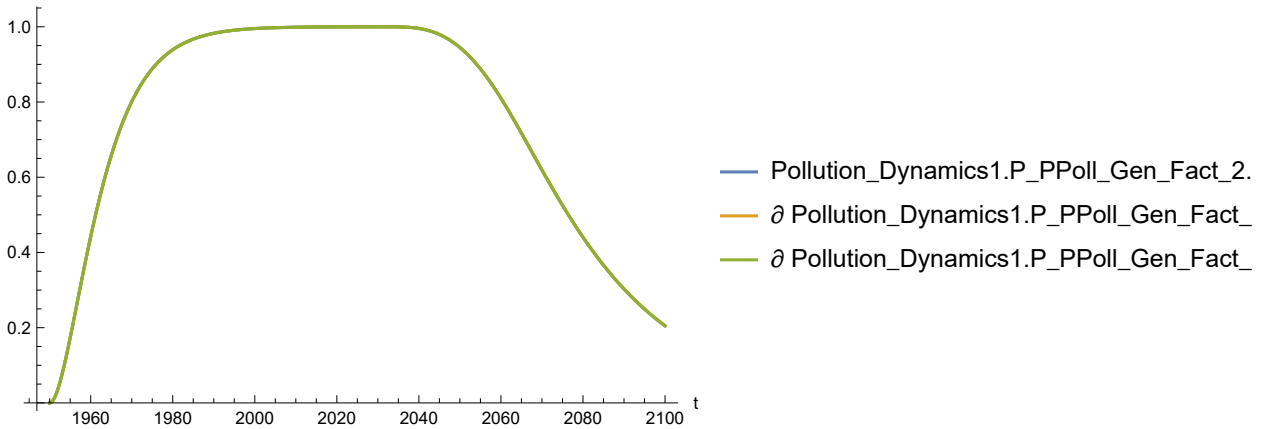
Out[259]=



In[260]:=

```
SystemModelPlot[simsensdata,
  {"Pollution_Dynamics1.P_PPoll_Gen_Fact_2.Smooth2.Integrator1.y",
   "Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[3]", percentvar}]
```

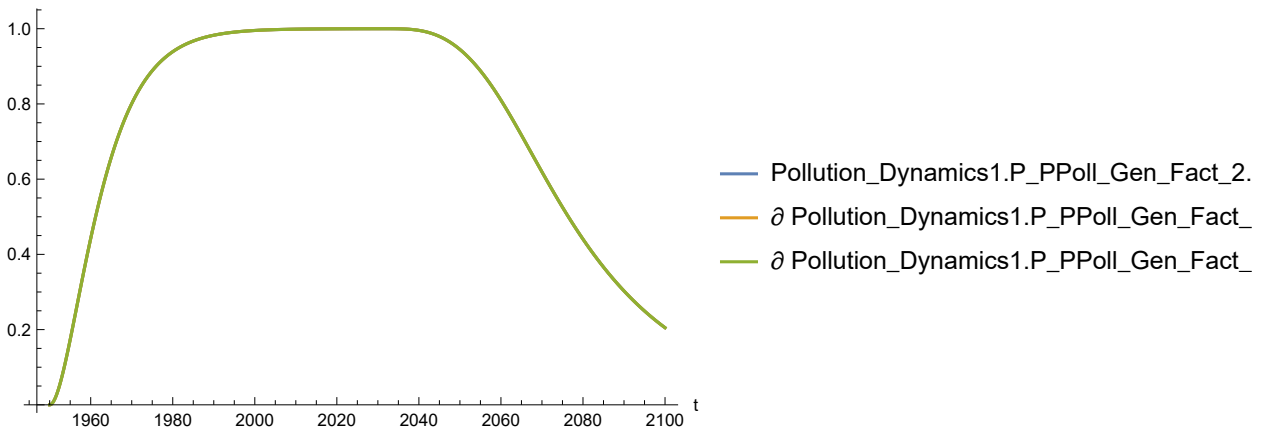
Out[260]=



In[261]:=

```
SystemModelPlot[simsensdata,
  {"Pollution_Dynamics1.P_PPoll_Gen_Fact_2.Smooth2.Integrator1.y",
   "Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[4]", percentvar}]
```

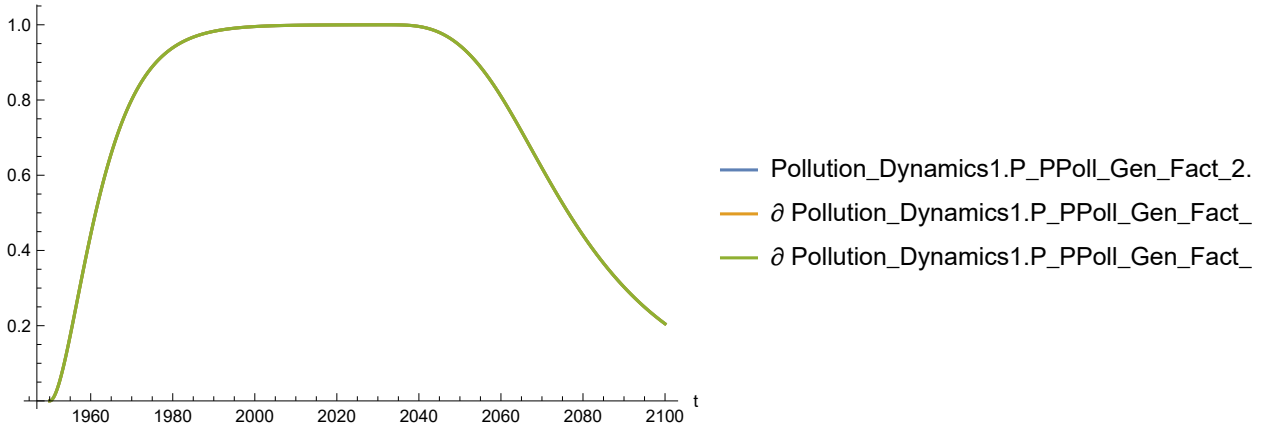
Out[261]=



In[262]:=

```
SystemModelPlot[simsensdata,
  {"Pollution_Dynamics1.P_PPoll_Gen_Fact_2.Smooth2.Integrator1.y",
   "Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[5]", percentvar}]
```

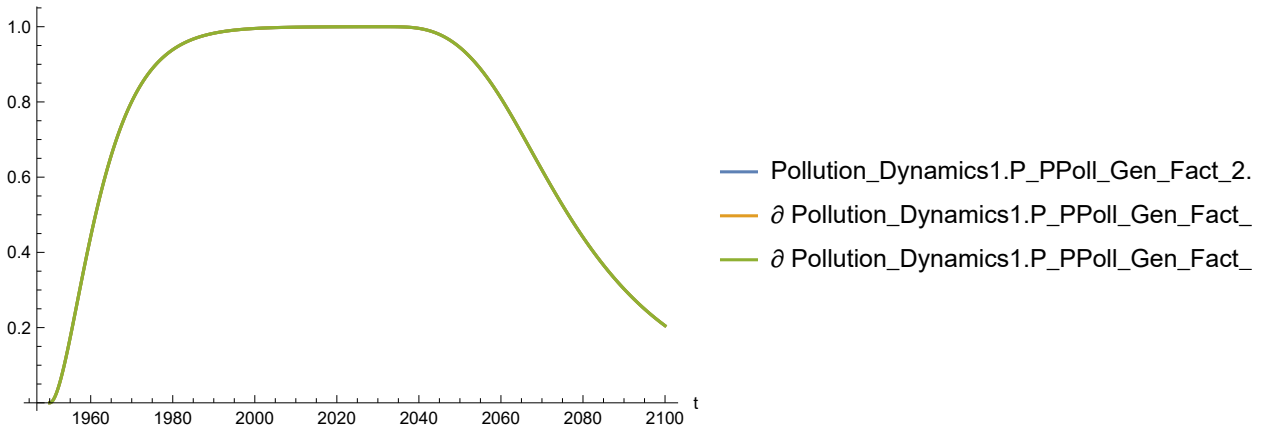
Out[262]=



In[263]:=

```
SystemModelPlot[simsensdata,
  {"Pollution_Dynamics1.P_PPoll_Gen_Fact_2.Smooth2.Integrator1.y",
   "Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[6]", percentvar}]
```

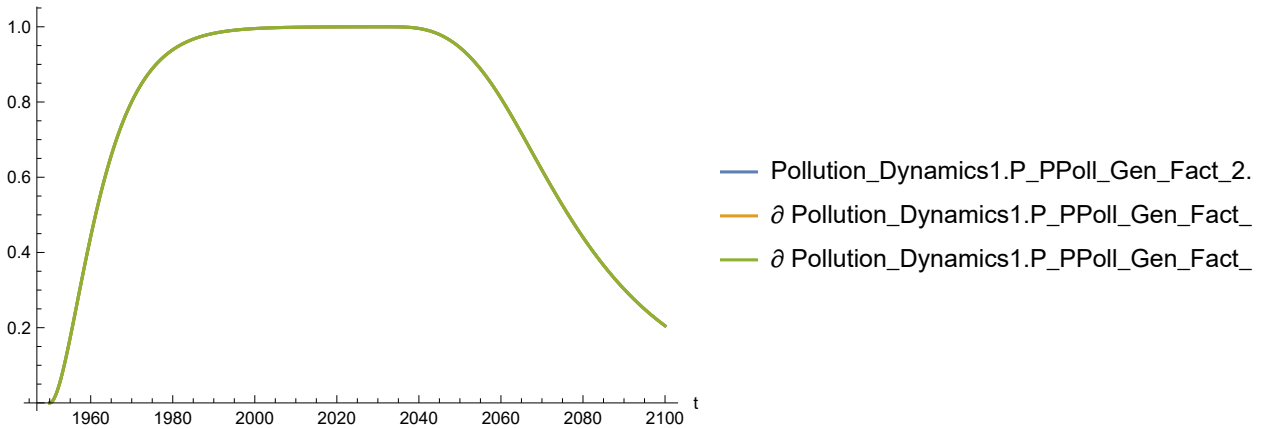
Out[263]=



In[264]:=

```
SystemModelPlot[simsensdata,
  {"Pollution_Dynamics1.P_PPoll_Gen_Fact_2.Smooth2.Integrator1.y",
   "Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[7]", percentvar}]
```

Out[264]=

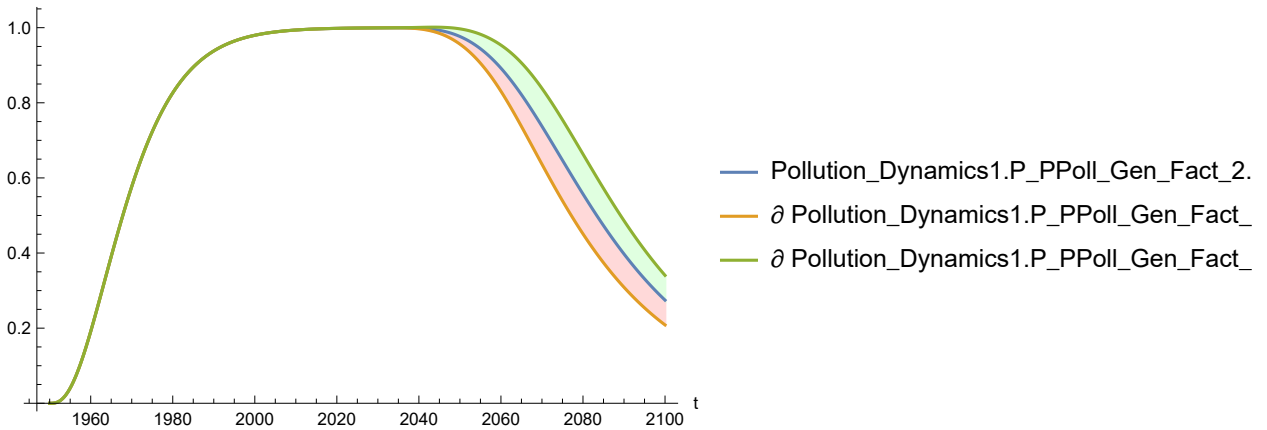


Plot the sensitivity of Pollution_Dynamics1.P_PPoll_Gen_Fact_2.Smooth3.Integrator1.y to Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals.

In[265]:=

```
SystemModelPlot[simsensdata,
  {"Pollution_Dynamics1.P_PPoll_Gen_Fact_2.Smooth3.Integrator1.y",
   "Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[1]", percentvar}]
```

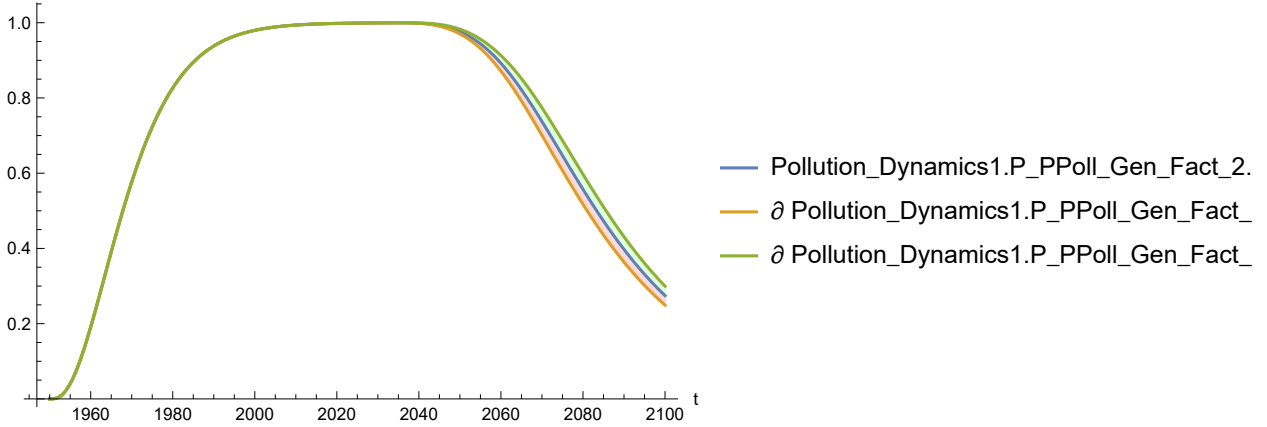
Out[265]=



In[266]:=

```
SystemModelPlot[simsensdata,
  {"Pollution_Dynamics1.P_PPoll_Gen_Fact_2.Smooth3.Integrator1.y",
   "Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[2]", percentvar}]
```

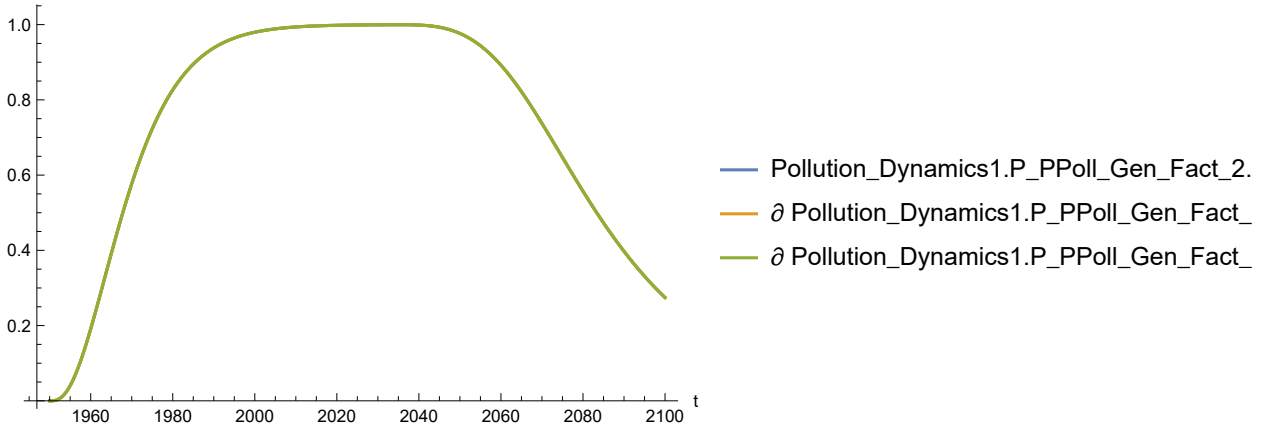
Out[266]=



In[267]:=

```
SystemModelPlot[simsensdata,
  {"Pollution_Dynamics1.P_PPoll_Gen_Fact_2.Smooth3.Integrator1.y",
   "Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[3]", percentvar}]
```

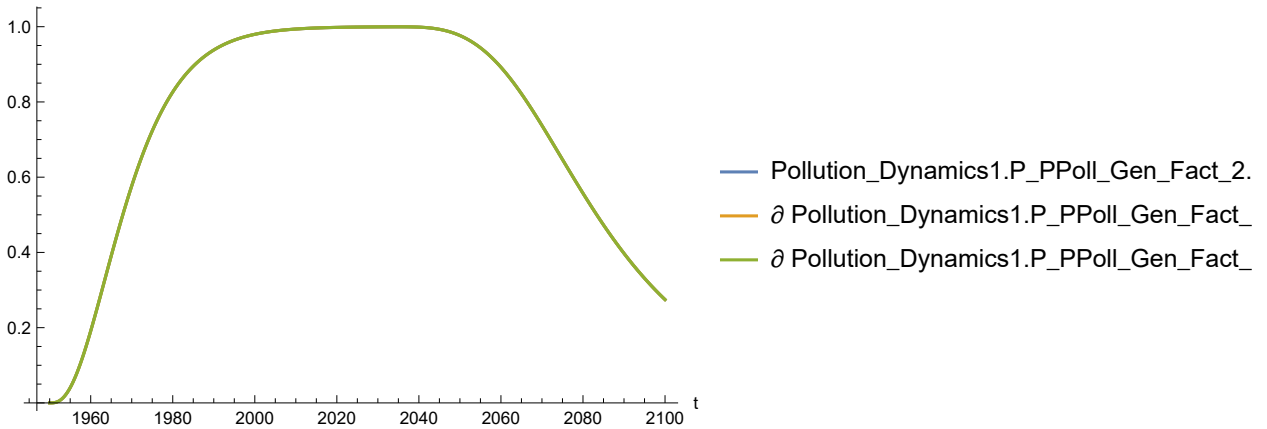
Out[267]=



In[268]:=

```
SystemModelPlot[simsensdata,
  {"Pollution_Dynamics1.P_PPoll_Gen_Fact_2.Smooth3.Integrator1.y",
   "Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[4]", percentvar}]
```

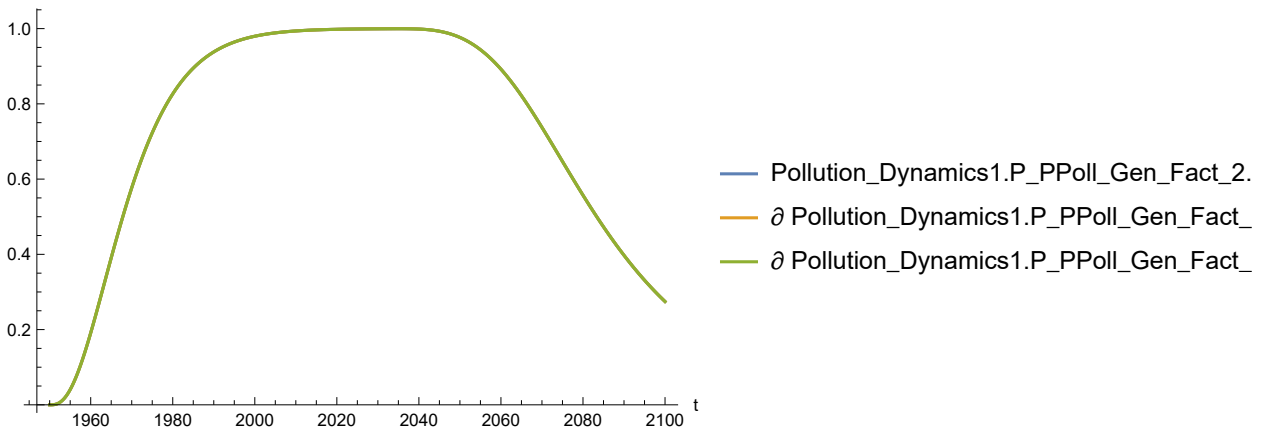
Out[268]=



In[269]:=

```
SystemModelPlot[simsensdata,
  {"Pollution_Dynamics1.P_PPoll_Gen_Fact_2.Smooth3.Integrator1.y",
   "Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[5]", percentvar}]
```

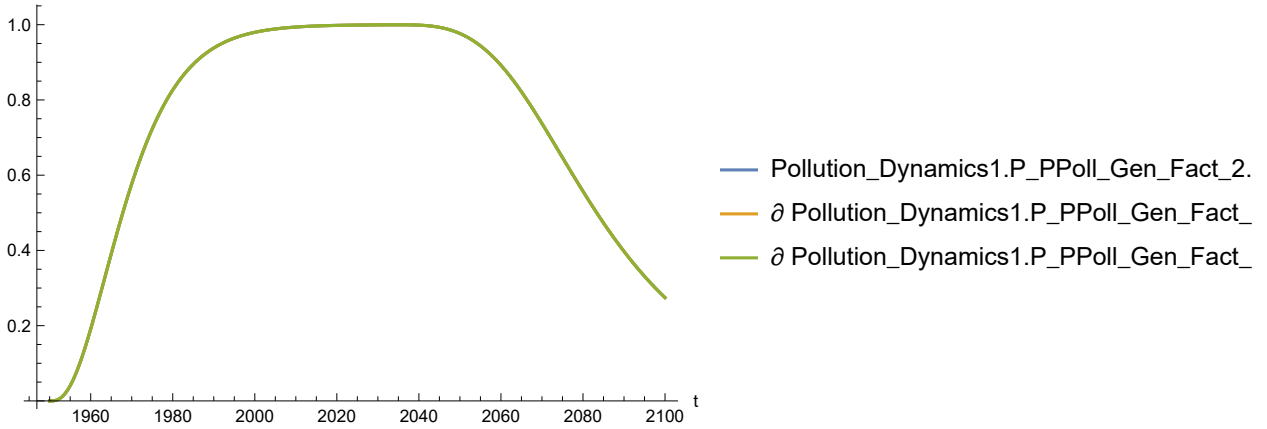
Out[269]=



In[270]:=

```
SystemModelPlot[simsensdata,
  {"Pollution_Dynamics1.P_PPoll_Gen_Fact_2.Smooth3.Integrator1.y",
   "Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[6]", percentvar}]
```

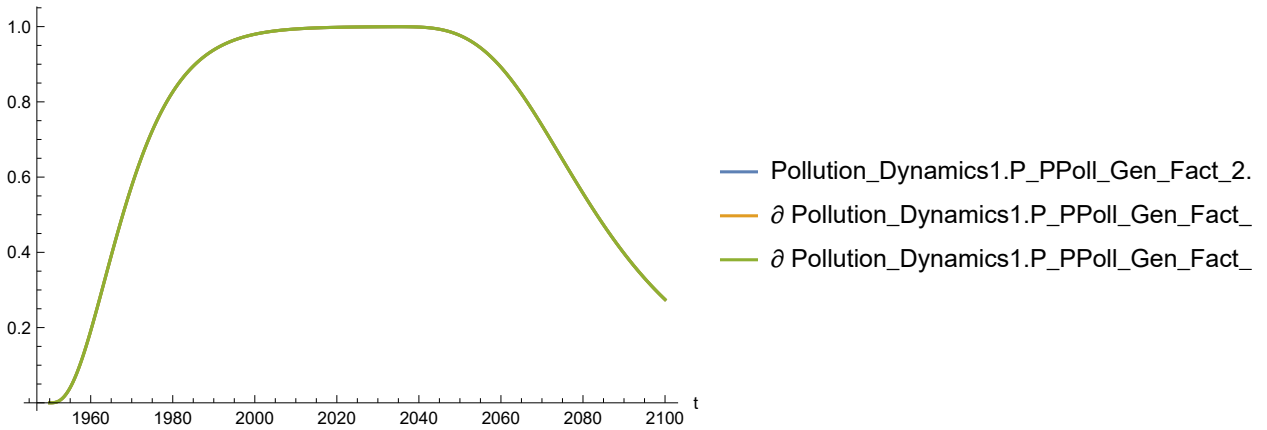
Out[270]=



In[271]:=

```
SystemModelPlot[simsensdata,
  {"Pollution_Dynamics1.P_PPoll_Gen_Fact_2.Smooth3.Integrator1.y",
   "Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[7]", percentvar}]
```

Out[271]=

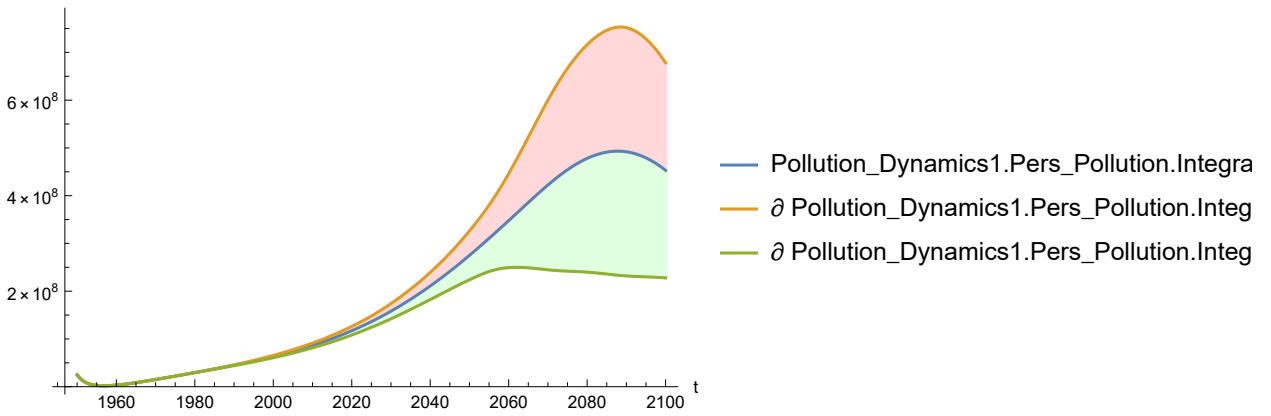


Plot the sensitivity of Pollution_Dynamics1.Pers_Pollution.Integrator1.y to Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals.

In[272]:=

```
SystemModelPlot[simsensdata, {"Pollution_Dynamics1.Pers_Pollution.Integrator1.y",
"Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[1]", percentvar}]
```

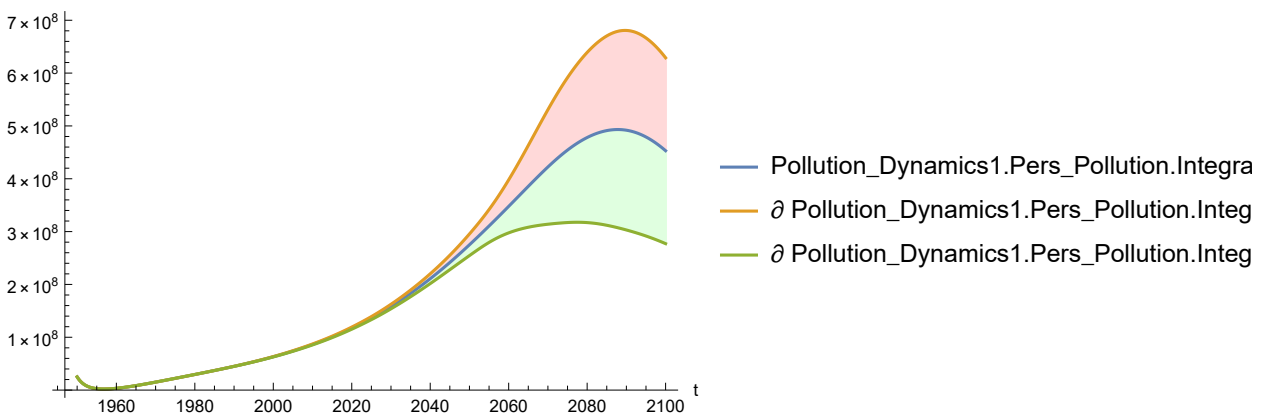
Out[272]=



In[273]:=

```
SystemModelPlot[simsensdata, {"Pollution_Dynamics1.Pers_Pollution.Integrator1.y",
"Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[2]", percentvar}]
```

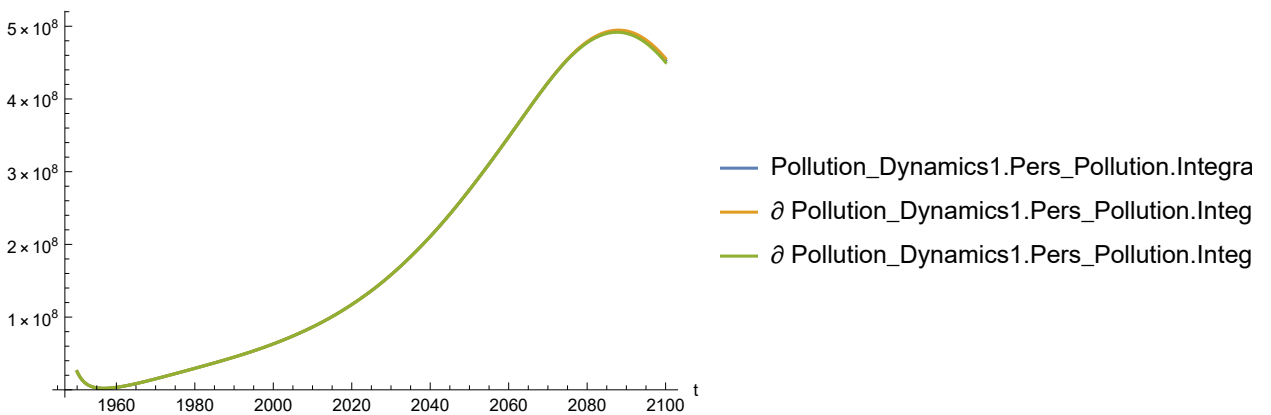
Out[273]=



In[274]:=

```
SystemModelPlot[simsensdata, {"Pollution_Dynamics1.Pers_Pollution.Integrator1.y",
"Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[3]", percentvar}]
```

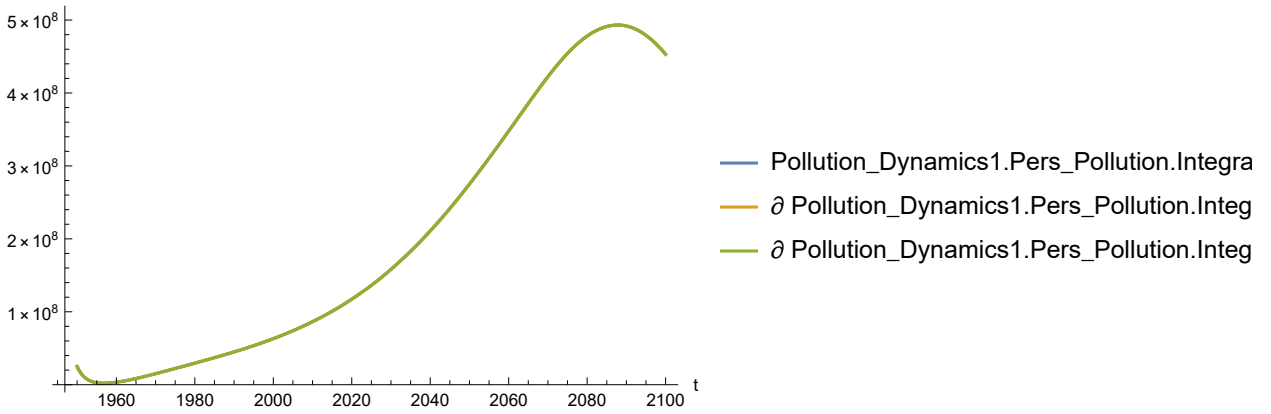
Out[274]=



In[275]:=

```
SystemModelPlot[simsensdata, {"Pollution_Dynamics1.Pers_Pollution.Integrator1.y",
"Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[4]", percentvar}]
```

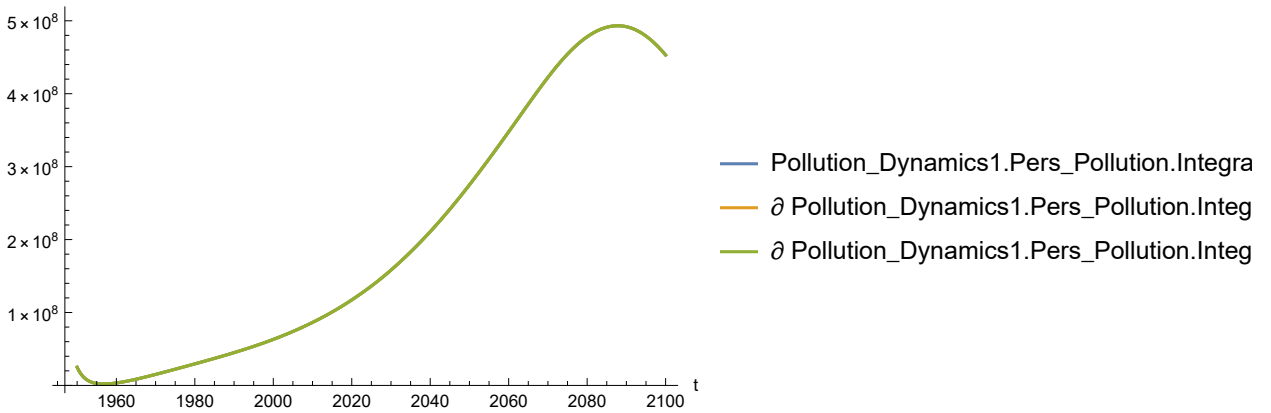
Out[275]=



In[276]:=

```
SystemModelPlot[simsensdata, {"Pollution_Dynamics1.Pers_Pollution.Integrator1.y",
"Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[5]", percentvar}]
```

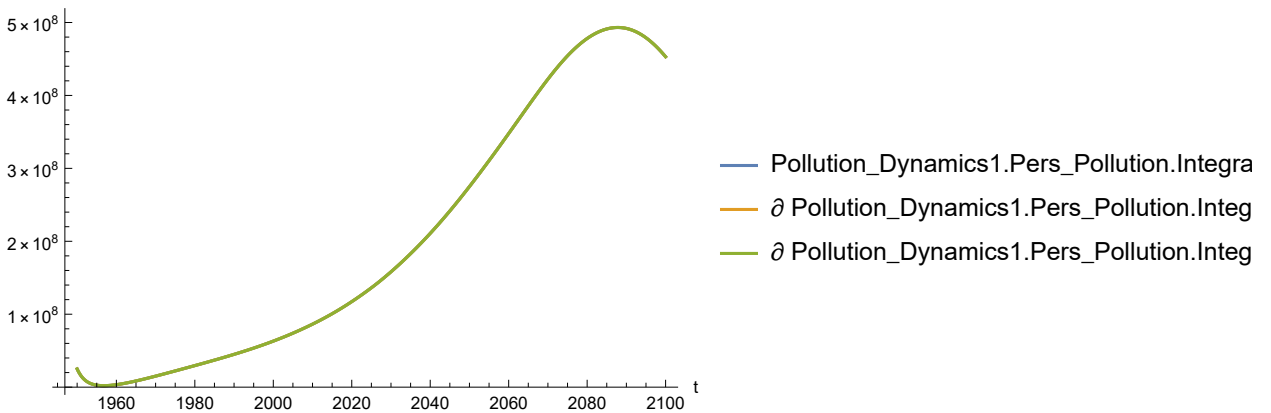
Out[276]=



In[277]:=

```
SystemModelPlot[simsensdata, {"Pollution_Dynamics1.Pers_Pollution.Integrator1.y",
"Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[6]", percentvar}]
```

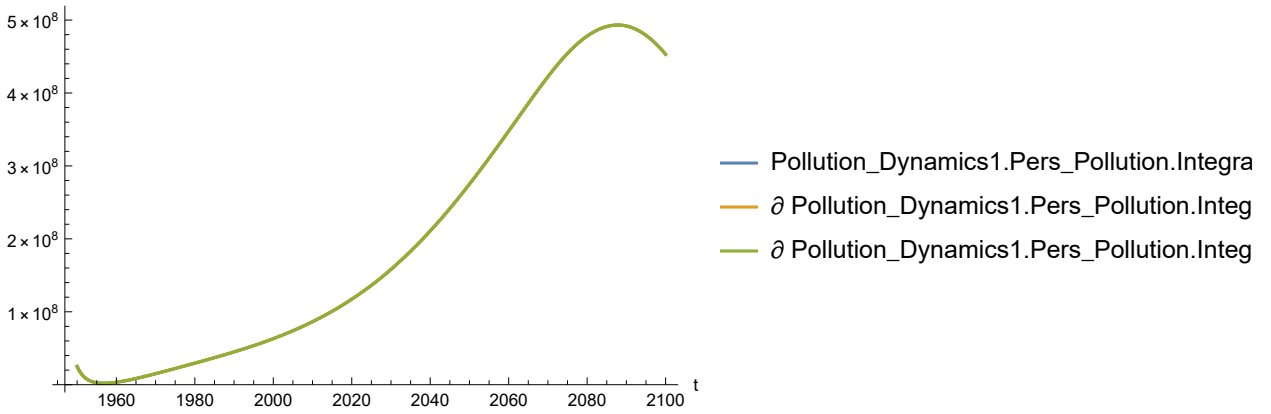
Out[277]=



In[278]:=

```
SystemModelPlot[simsensdata, {"Pollution_Dynamics1.Pers_Pollution.Integrator1.y",
"Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[7]", percentvar}]
```

Out[278]=

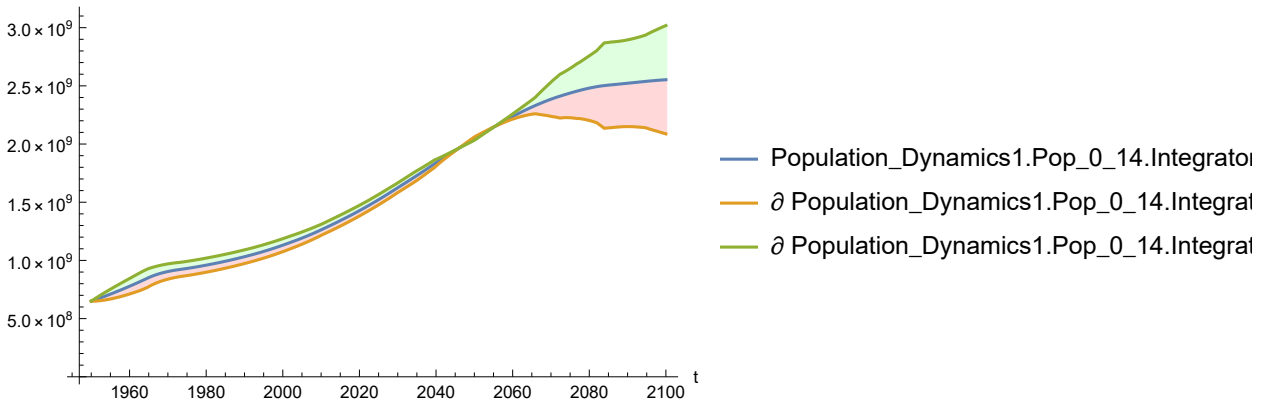


Plot sensitivity of population to **Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals**. In World3, popula- tion is divided into four subpopulations by age: 0-14 years, 15-44 years, 45-64 years, and 65 year and over.

In[279]:=

```
SystemModelPlot[simsensdata, {"Population_Dynamics1.Pop_0_14.Integrator1.y",
"Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[1]", percentvar}]
```

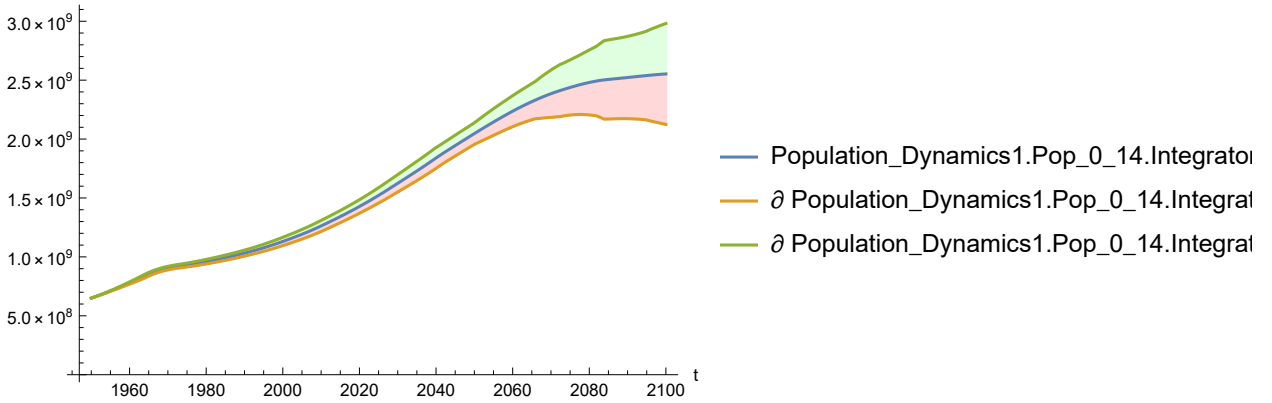
Out[279]=



In[280]:=

```
SystemModelPlot[simsensdata, {"Population_Dynamics1.Pop_0_14.Integrator1.y",
"Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[2]", percentvar}]
```

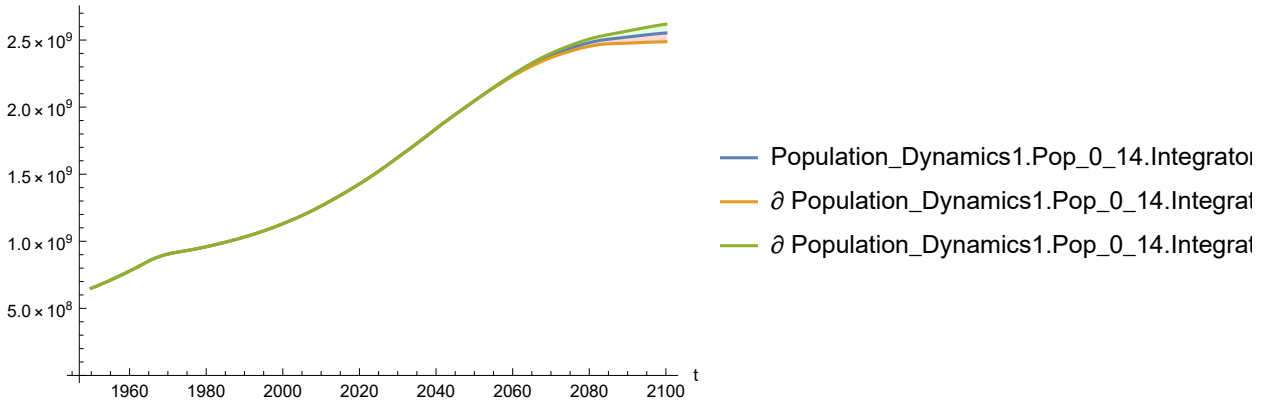
Out[280]=



In[281]:=

```
SystemModelPlot[simsensdata, {"Population_Dynamics1.Pop_0_14.Integrator1.y",
"Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[3]", percentvar}]
```

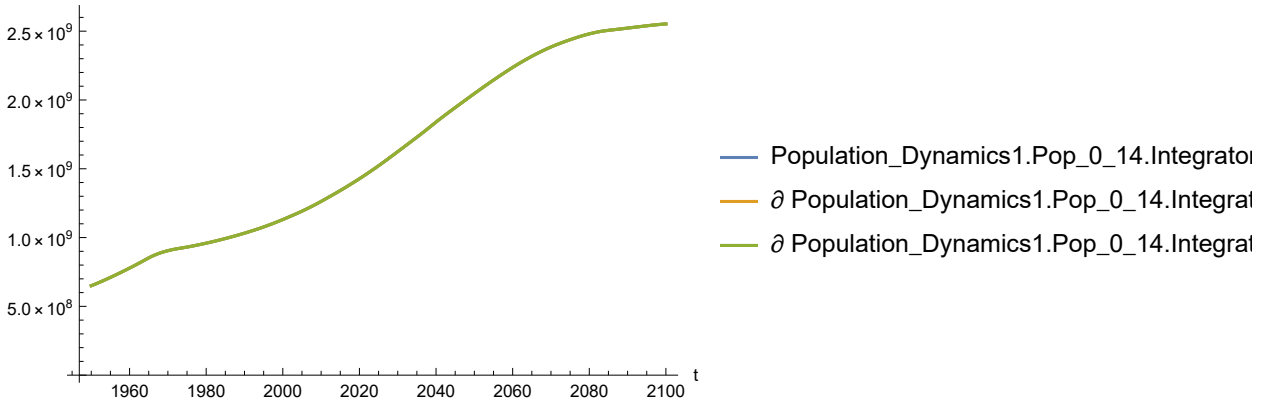
Out[281]=



In[282]:=

```
SystemModelPlot[simsensdata, {"Population_Dynamics1.Pop_0_14.Integrator1.y",
"Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[4]", percentvar}]
```

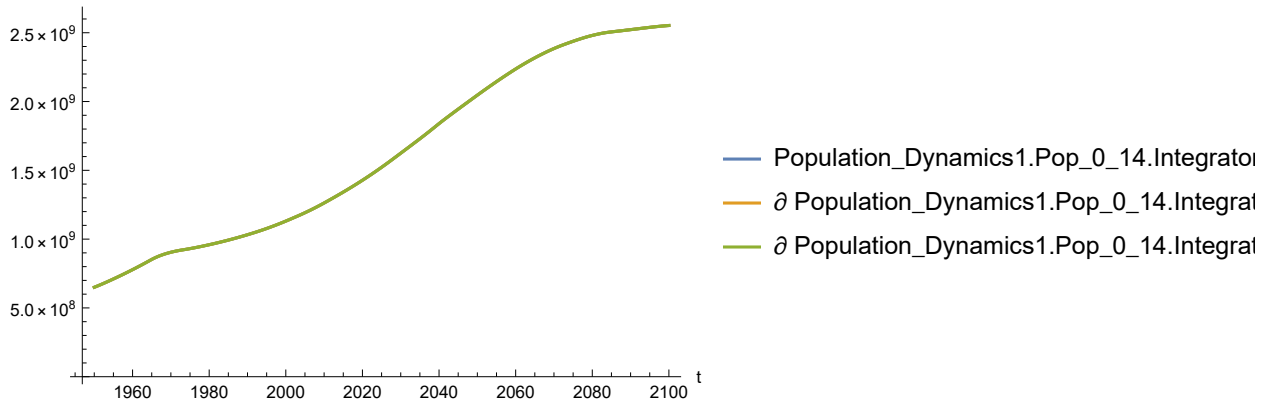
Out[282]=



In[283]:=

```
SystemModelPlot[simsensdata, {"Population_Dynamics1.Pop_0_14.Integrator1.y",
"Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[5]", percentvar}]
```

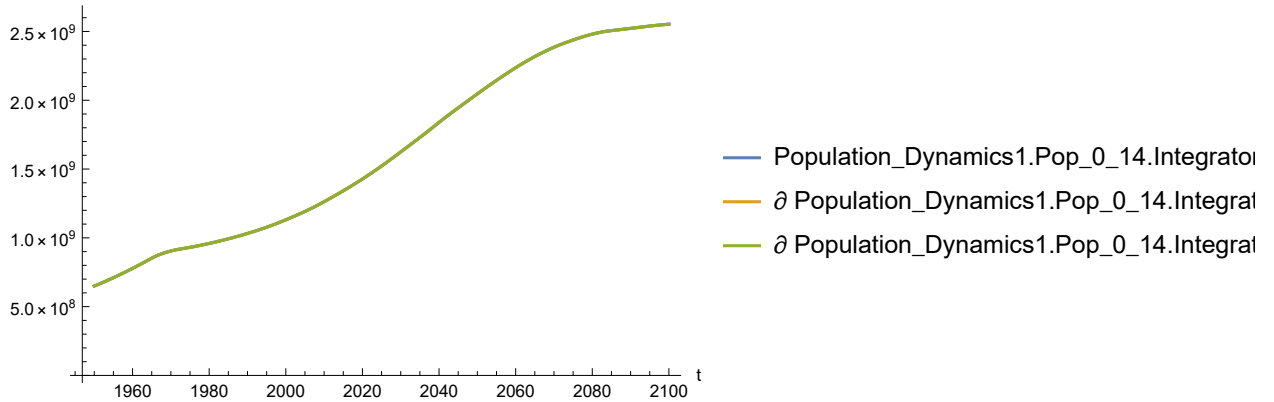
Out[283]=



In[284]:=

```
SystemModelPlot[simsensdata, {"Population_Dynamics1.Pop_0_14.Integrator1.y",
"Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[6]", percentvar}]
```

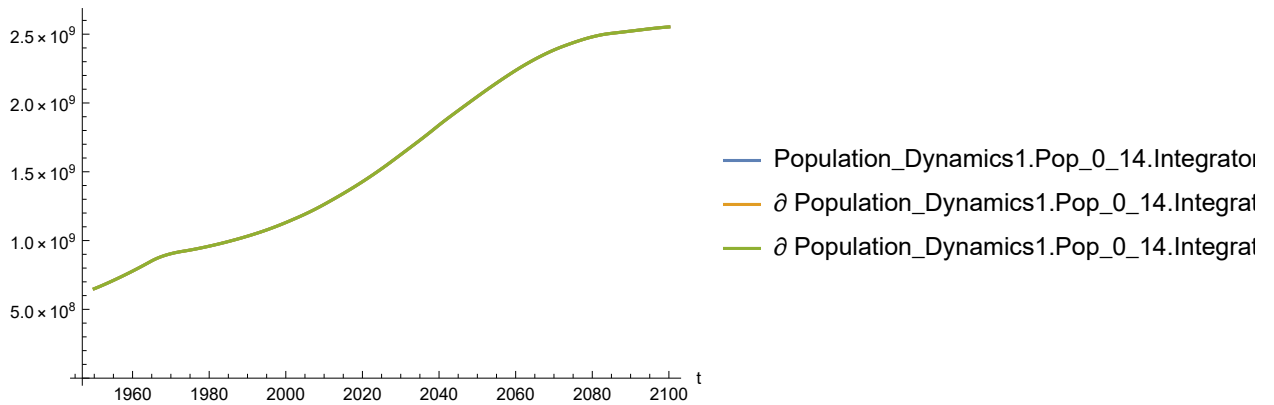
Out[284]=



In[285]:=

```
SystemModelPlot[simsensdata, {"Population_Dynamics1.Pop_0_14.Integrator1.y",
"Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[7]", percentvar}]
```

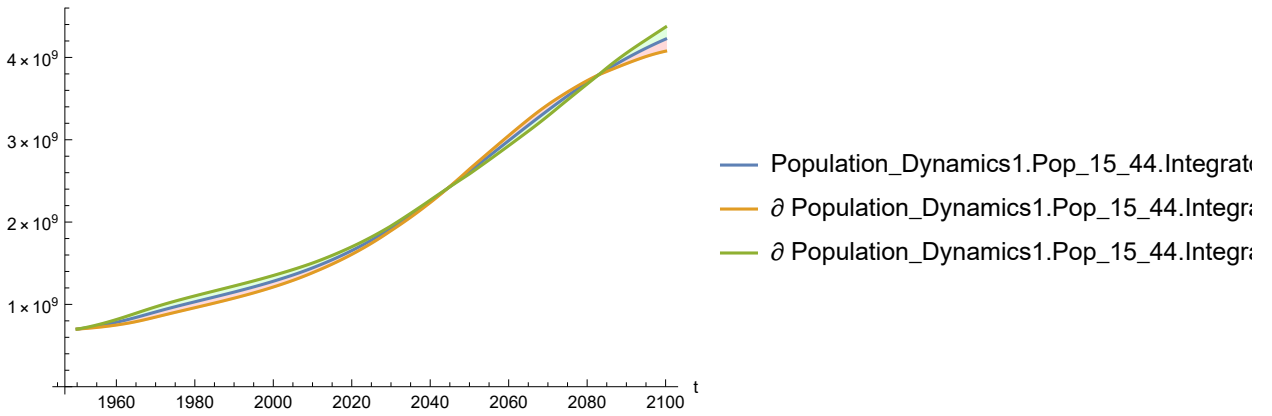
Out[285]=



In[286]:=

```
SystemModelPlot[simsensdata, {"Population_Dynamics1.Pop_15_44.Integrator1.y",
"Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[1]", percentvar}]
```

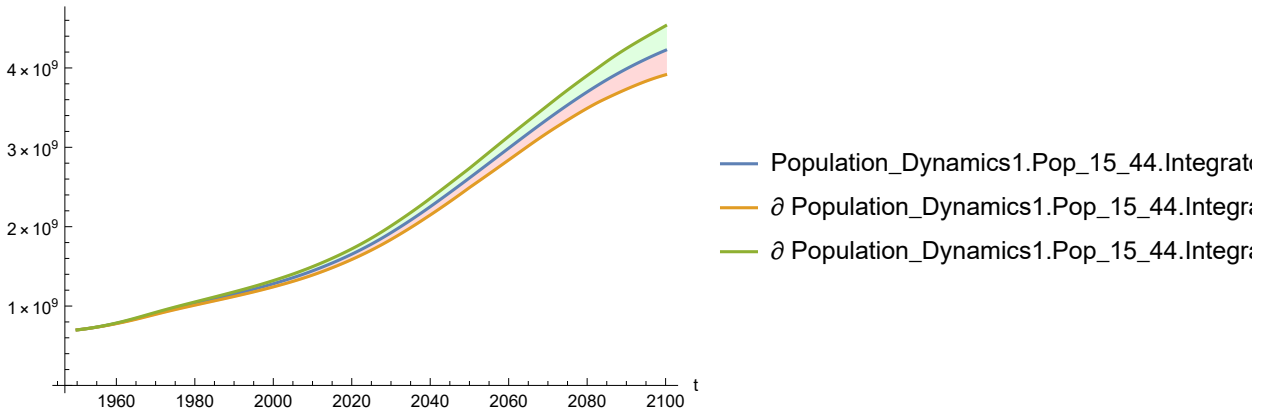
Out[286]=



In[287]:=

```
SystemModelPlot[simsensdata, {"Population_Dynamics1.Pop_15_44.Integrator1.y",
"Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[2]", percentvar}]
```

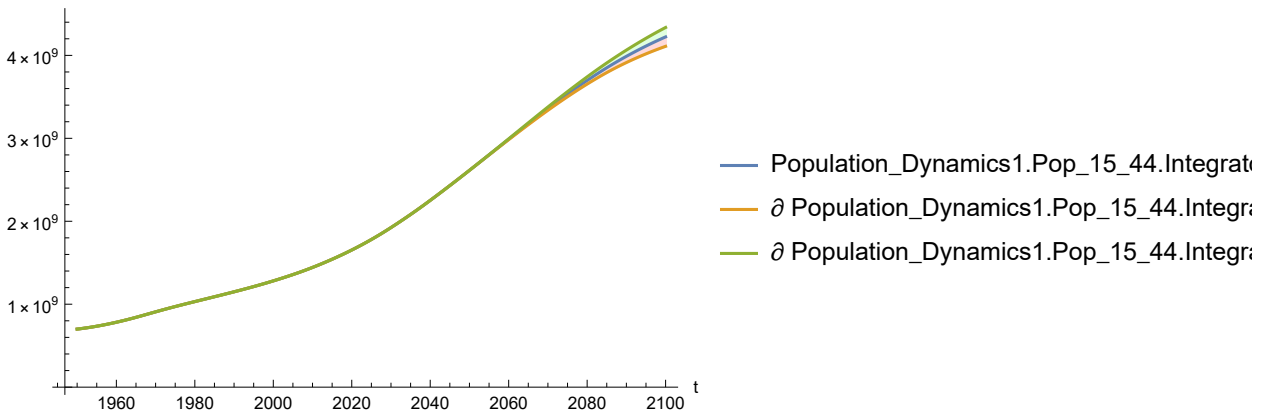
Out[287]=



In[288]:=

```
SystemModelPlot[simsensdata, {"Population_Dynamics1.Pop_15_44.Integrator1.y",
"Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[3]", percentvar}]
```

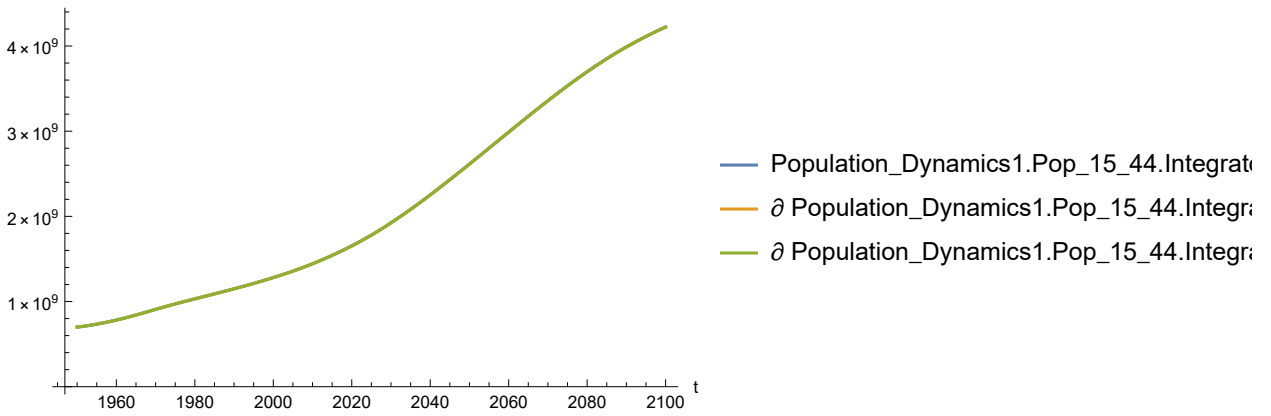
Out[288]=



In[289]:=

```
SystemModelPlot[simsensdata, {"Population_Dynamics1.Pop_15_44.Integrator1.y",
"Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[4]", percentvar}]
```

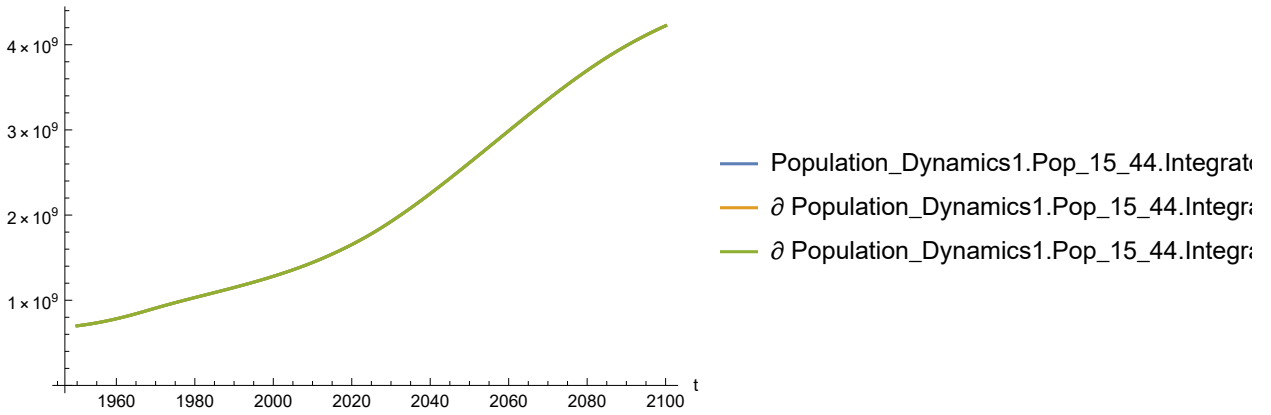
Out[289]=



In[290]:=

```
SystemModelPlot[simsensdata, {"Population_Dynamics1.Pop_15_44.Integrator1.y",
"Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[5]", percentvar}]
```

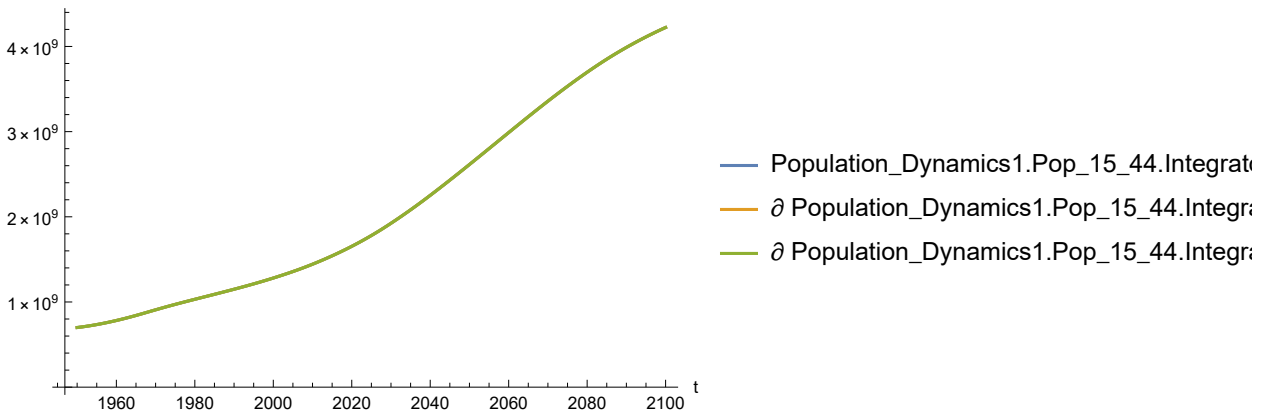
Out[290]=



In[291]:=

```
SystemModelPlot[simsensdata, {"Population_Dynamics1.Pop_15_44.Integrator1.y",
"Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[6]", percentvar}]
```

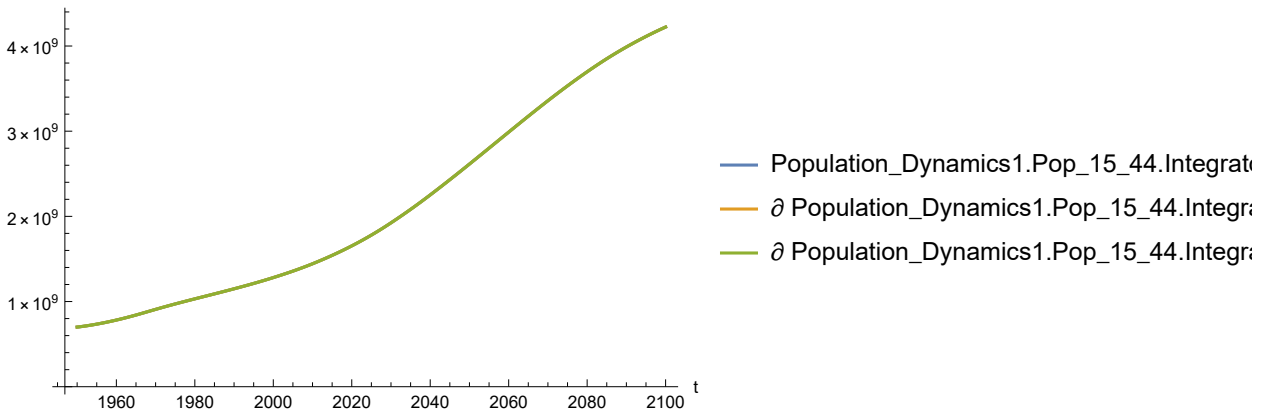
Out[291]=



In[292]:=

```
SystemModelPlot[simsensdata, {"Population_Dynamics1.Pop_15_44.Integrator1.y",
"Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[7]", percentvar}]
```

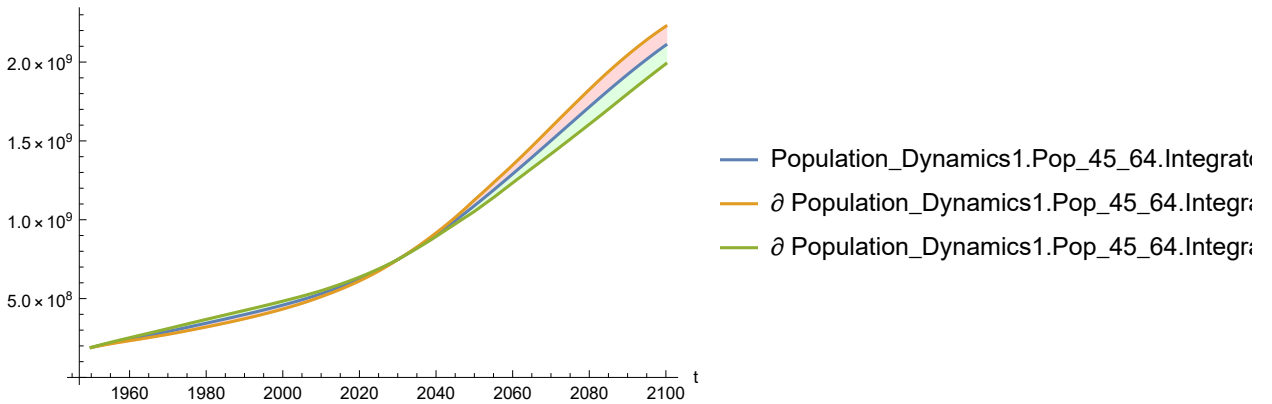
Out[292]=



In[293]:=

```
SystemModelPlot[simsensdata, {"Population_Dynamics1.Pop_45_64.Integrator1.y",
"Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[1]", percentvar}]
```

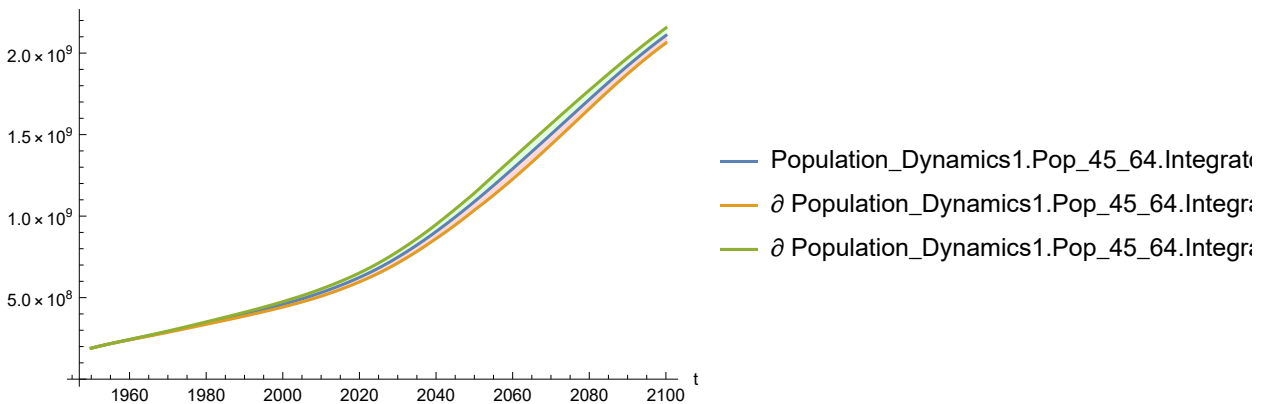
Out[293]=



In[294]:=

```
SystemModelPlot[simsensdata, {"Population_Dynamics1.Pop_45_64.Integrator1.y",
"Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[2]", percentvar}]
```

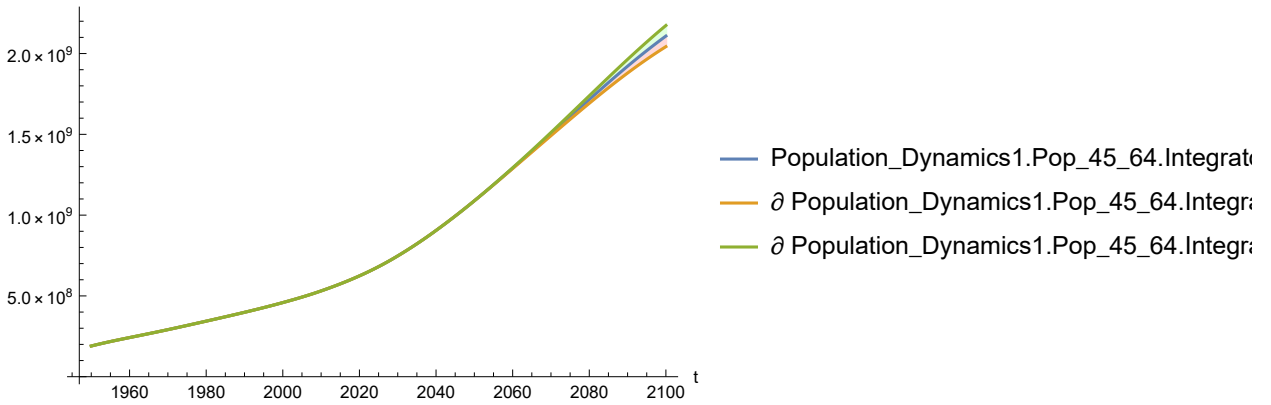
Out[294]=



In[295]:=

```
SystemModelPlot[simsensdata, {"Population_Dynamics1.Pop_45_64.Integrator1.y",
"Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[3]", percentvar}]
```

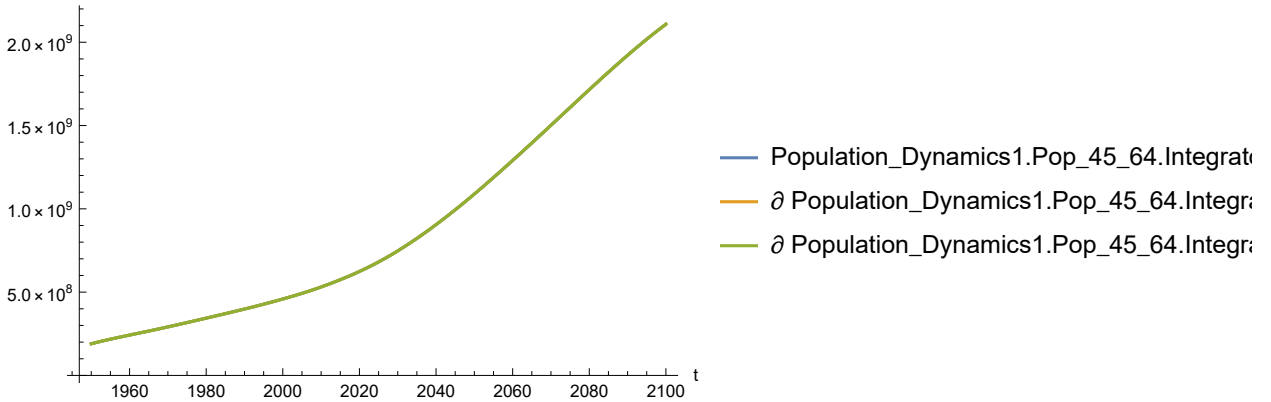
Out[295]=



In[296]:=

```
SystemModelPlot[simsensdata, {"Population_Dynamics1.Pop_45_64.Integrator1.y",
"Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[4]", percentvar}]
```

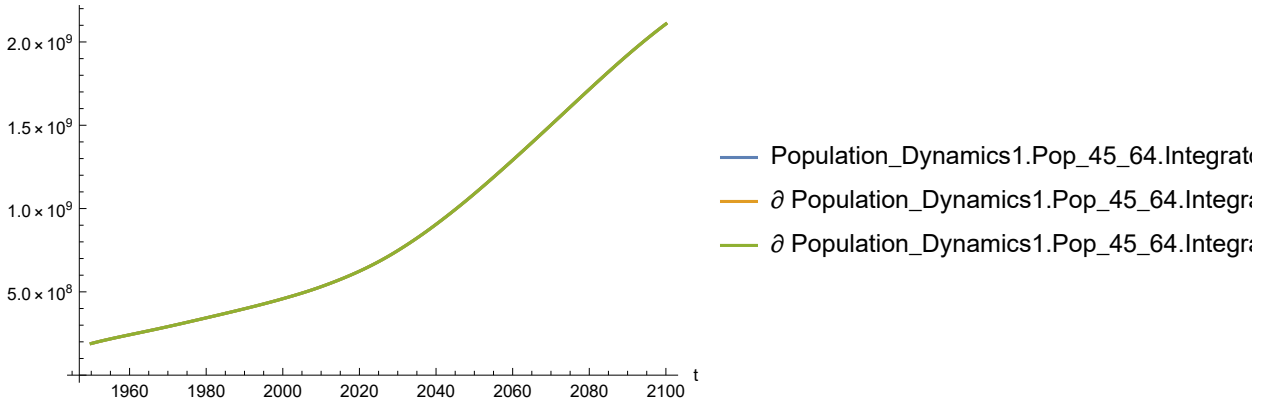
Out[296]=



In[297]:=

```
SystemModelPlot[simsensdata, {"Population_Dynamics1.Pop_45_64.Integrator1.y",
"Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[5]", percentvar}]
```

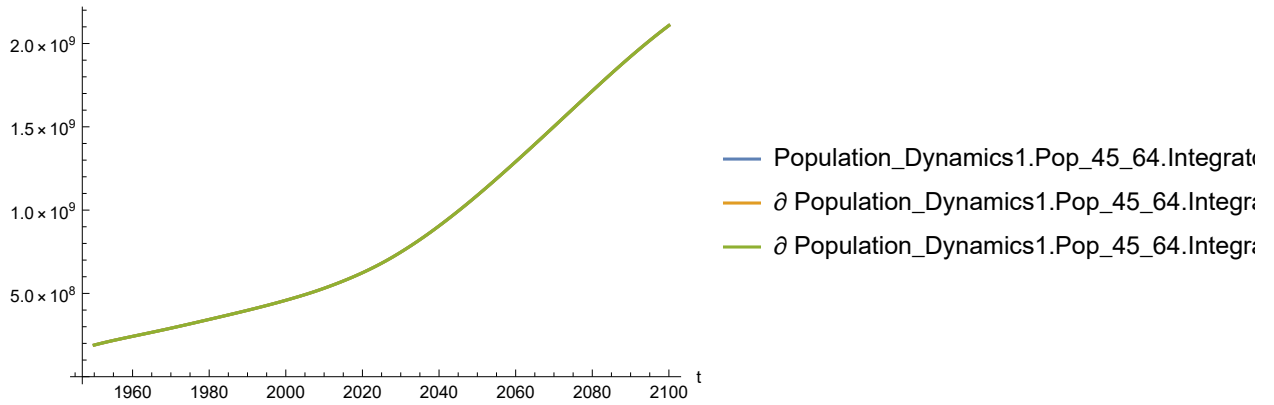
Out[297]=



In[298]:=

```
SystemModelPlot[simsensdata, {"Population_Dynamics1.Pop_45_64.Integrator1.y",
"Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[6]", percentvar}]
```

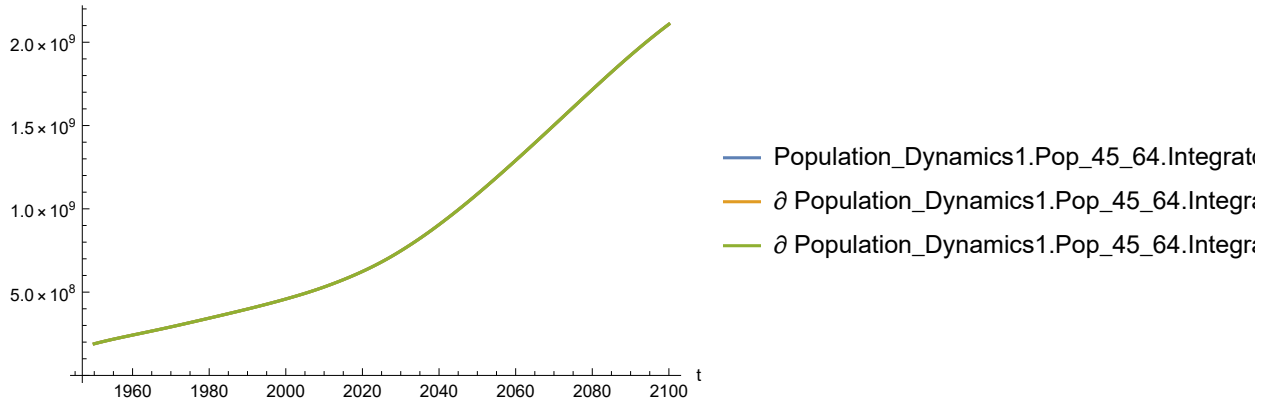
Out[298]=



In[299]:=

```
SystemModelPlot[simsensdata, {"Population_Dynamics1.Pop_45_64.Integrator1.y",
"Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[7]", percentvar}]
```

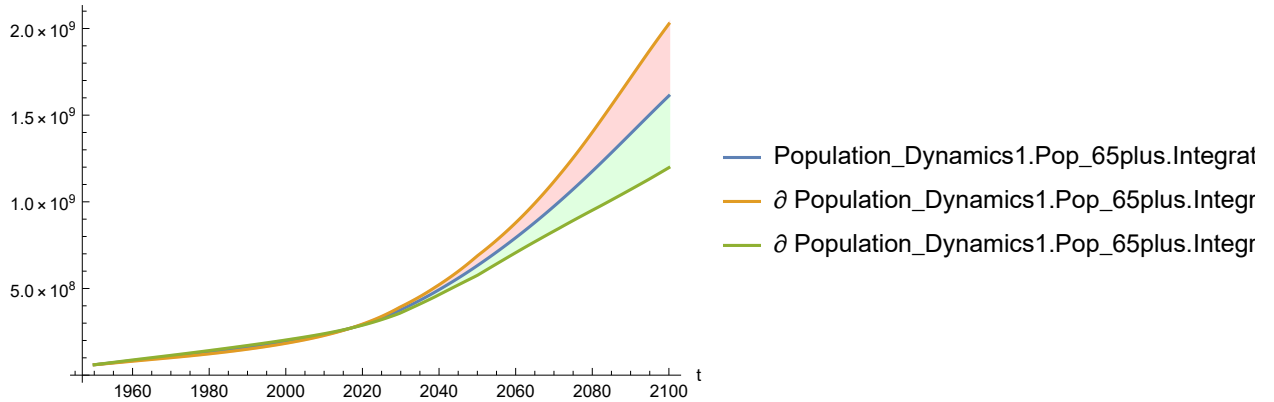
Out[299]=



In[300]:=

```
SystemModelPlot[simsensdata, {"Population_Dynamics1.Pop_65plus.Integrator1.y",
"Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[1]", percentvar}]
```

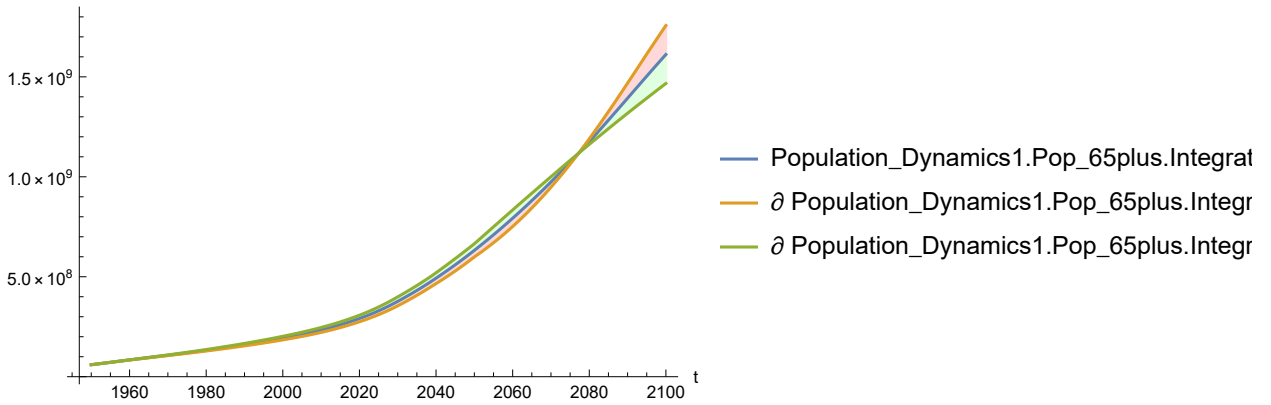
Out[300]=



In[301]:=

```
SystemModelPlot[simsensdata, {"Population_Dynamics1.Pop_65plus.Integrator1.y",
"Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[2]", percentvar}]
```

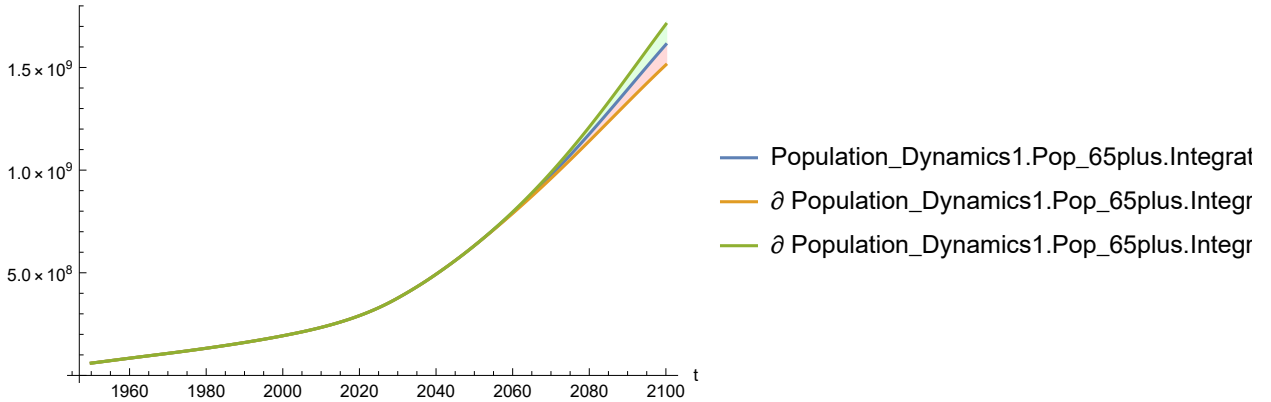
Out[301]=



In[302]:=

```
SystemModelPlot[simsensdata, {"Population_Dynamics1.Pop_65plus.Integrator1.y",
"Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[3]", percentvar}]
```

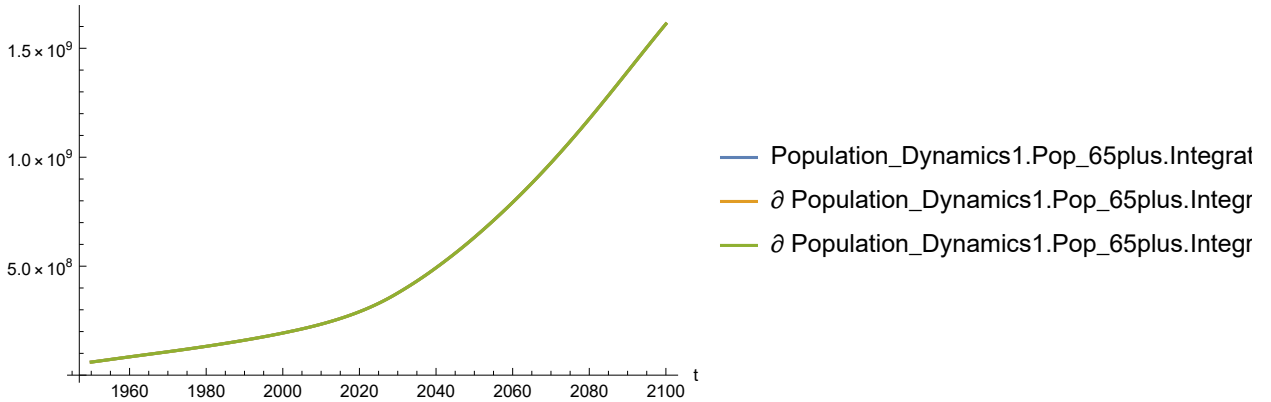
Out[302]=



In[303]:=

```
SystemModelPlot[simsensdata, {"Population_Dynamics1.Pop_65plus.Integrator1.y",
"Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[4]", percentvar}]
```

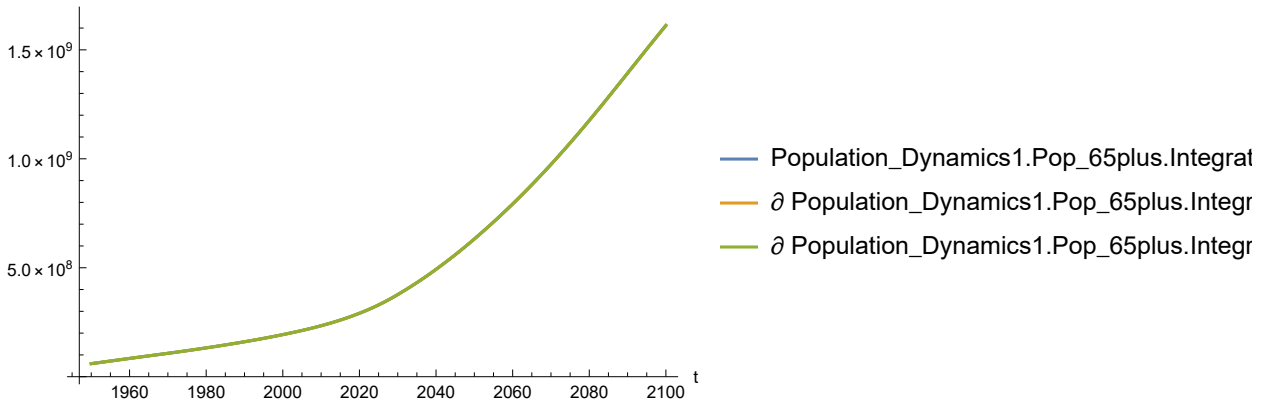
Out[303]=



In[304]:=

```
SystemModelPlot[simsensdata, {"Population_Dynamics1.Pop_65plus.Integrator1.y",
"Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[5]", percentvar}]
```

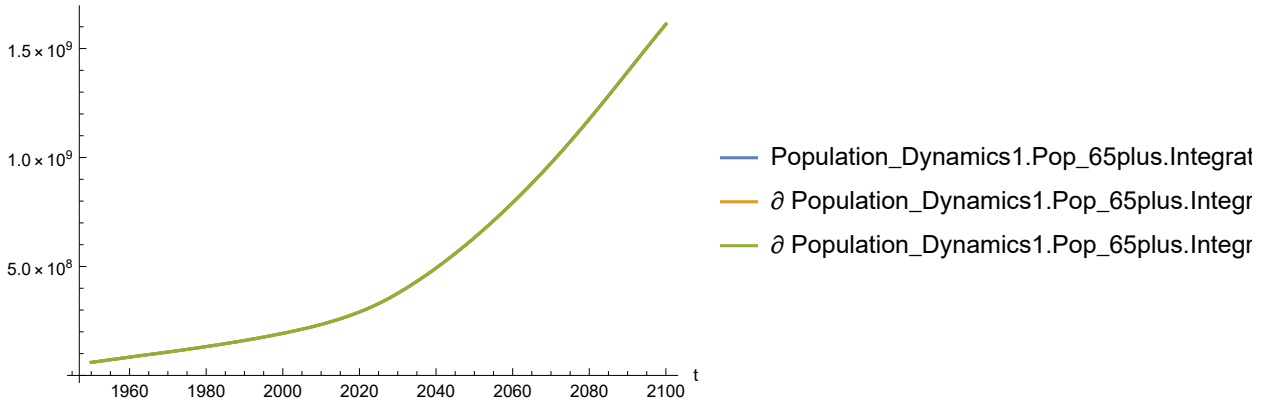
Out[304]=



In[305]:=

```
SystemModelPlot[simsensdata, {"Population_Dynamics1.Pop_65plus.Integrator1.y",
"Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[6]", percentvar}]
```

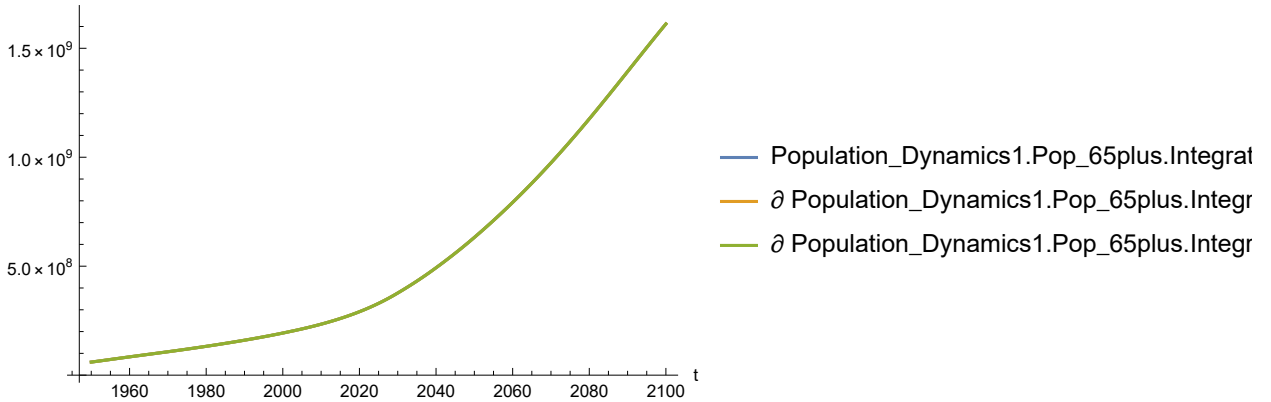
Out[305]=



In[306]:=

```
SystemModelPlot[simsensdata, {"Population_Dynamics1.Pop_65plus.Integrator1.y",
"Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[7]", percentvar}]
```

Out[306]=

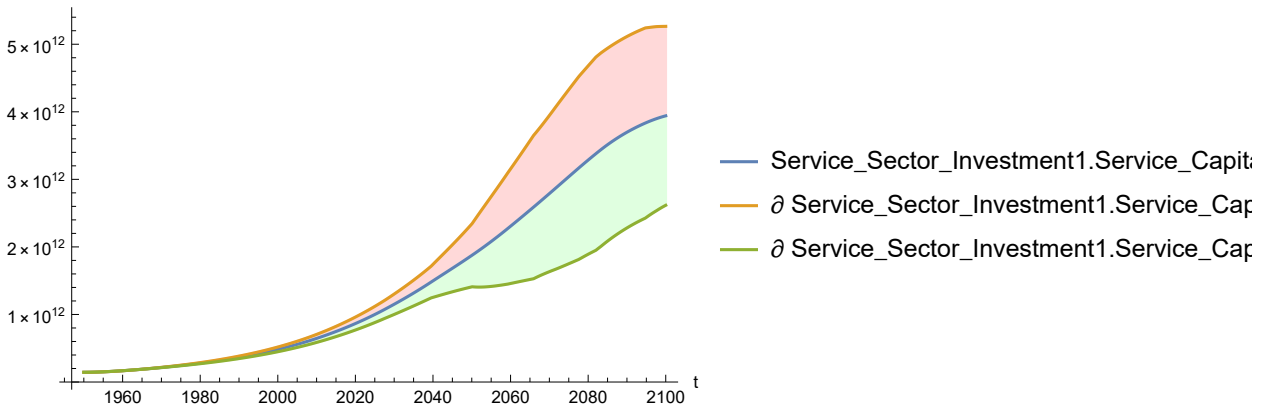


Plot sensitivity of Service_Sector_Investment1.Service_Capital.Integrator1.y to Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals.

In[307]:=

```
SystemModelPlot[simsensdata,
  {"Service_Sector_Investment1.Service_Capital.Integrator1.y",
   "Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[1]", percentvar}]
```

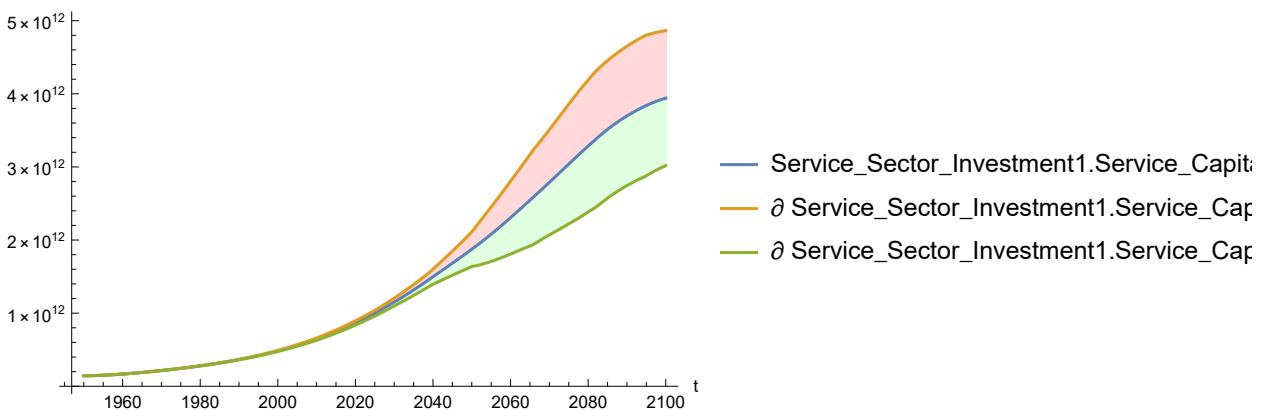
Out[307]=



In[308]:=

```
SystemModelPlot[simsensdata,
  {"Service_Sector_Investment1.Service_Capital.Integrator1.y",
   "Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[2]", percentvar}]
```

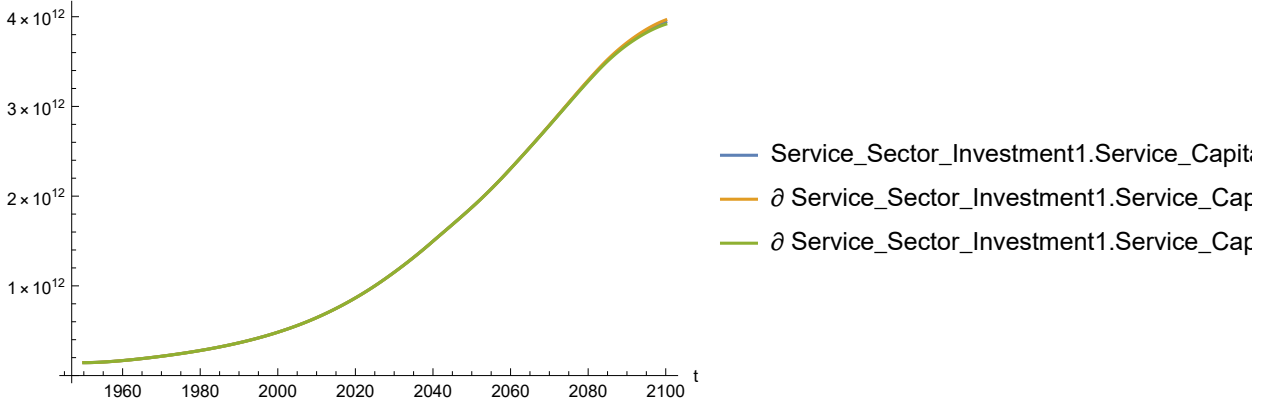
Out[308]=



In[309]:=

```
SystemModelPlot[simsensdata,
  {"Service_Sector_Investment1.Service_Capital.Integrator1.y",
   "Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[3]", percentvar}]
```

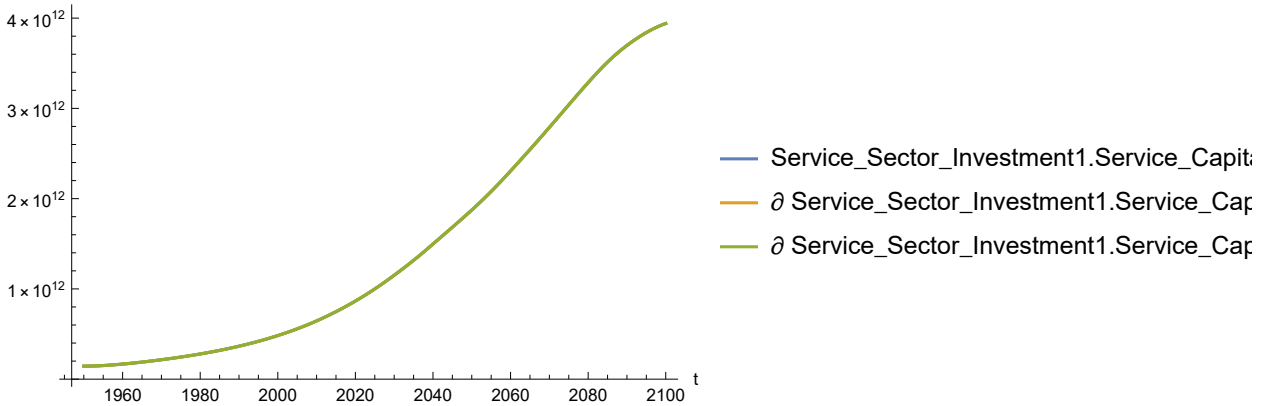
Out[309]=



In[310]:=

```
SystemModelPlot[simsensdata,
  {"Service_Sector_Investment1.Service_Capital.Integrator1.y",
   "Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[4]", percentvar}]
```

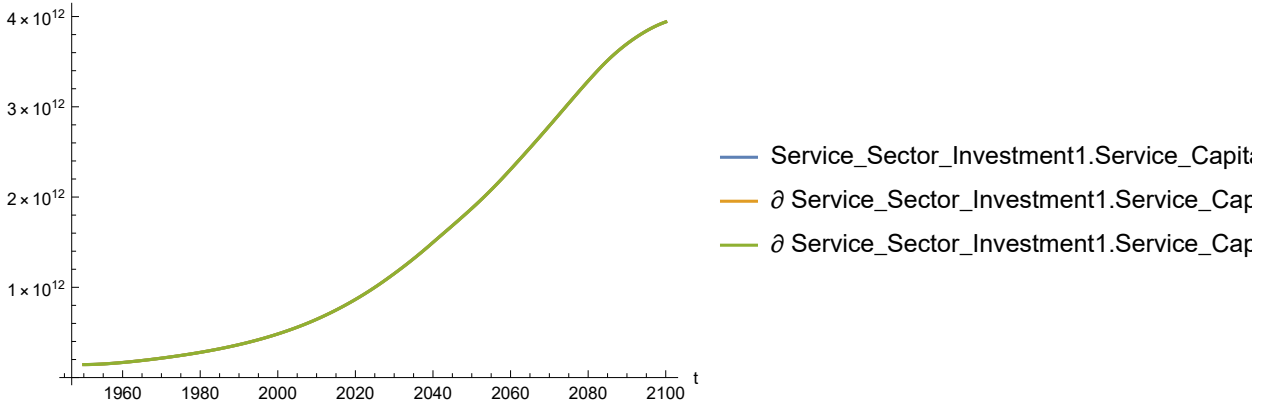
Out[310]=



In[311]:=

```
SystemModelPlot[simsensdata,
  {"Service_Sector_Investment1.Service_Capital.Integrator1.y",
   "Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[5]", percentvar}]
```

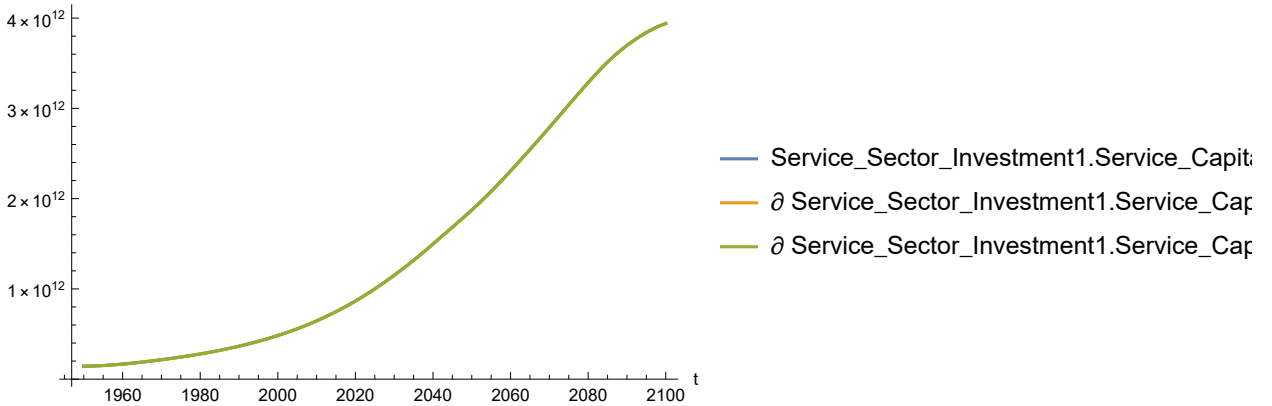
Out[311]=



In[312]:=

```
SystemModelPlot[simsensdata,
  {"Service_Sector_Investment1.Service_Capital.Integrator1.y",
   "Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[6]", percentvar}]
```

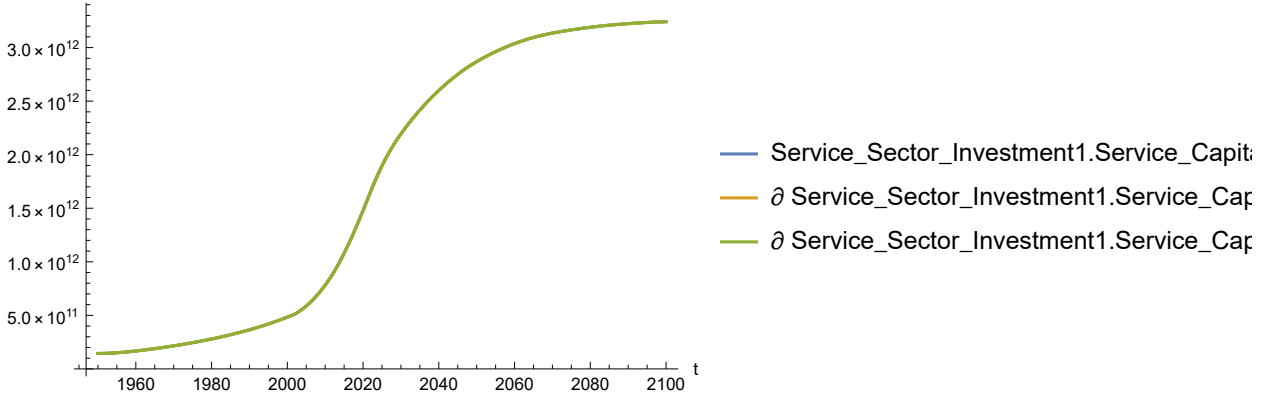
Out[312]=



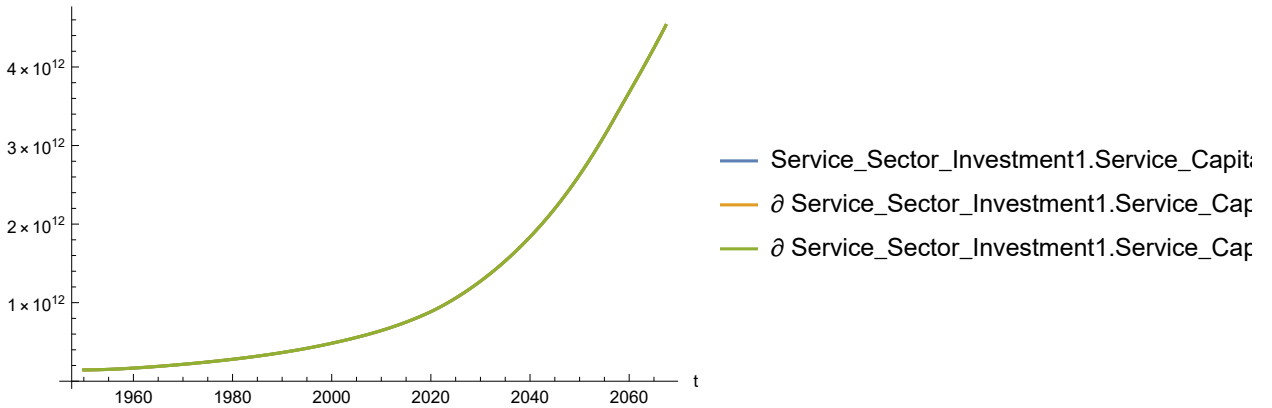
In[313]:=

```
SystemModelPlot[simsensdata,
  {"Service_Sector_Investment1.Service_Capital.Integrator1.y",
   "Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[7]", percentvar}]
```

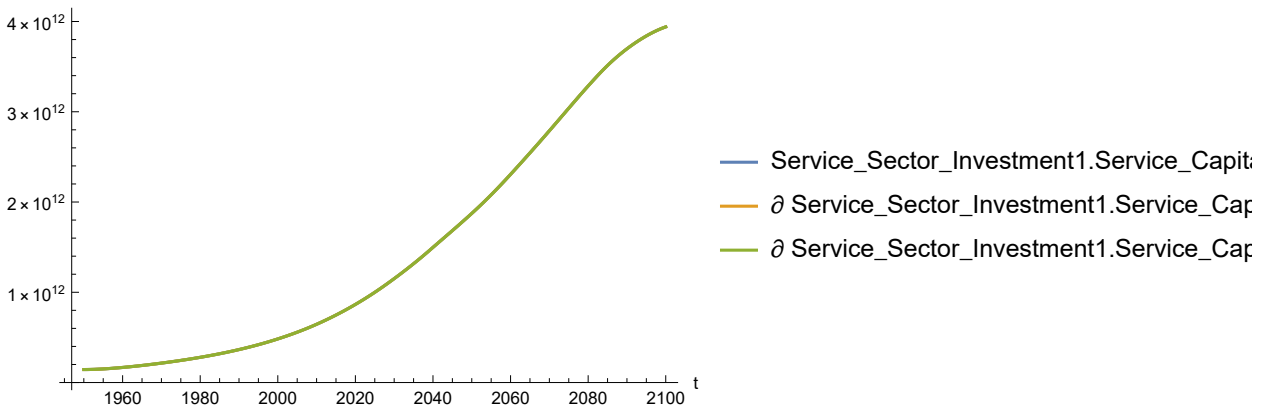
Out[]:=



Out[]:=



Out[313]:=



Appendix 7. Experiment 7. Benchmark Scenario 7. Compute and plot sensitivity of various World3 variables to Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals values.

Last modified: 28 August 2022/1040 US CT.

Author: J. K. Horner
email: jhorner@cybermesa.com

Platform:

Windows 10

Wolfram Mathematica Home Version v13.1, dynamic updating enabled

Wolfram SystemModeler v12.0

Open Modelica v3.2.2

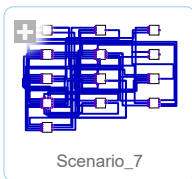
Microsoft Visual C++, version-compatible with the above

Load Benchmark Scenario 7.

In[1]:=

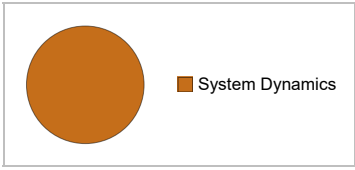
```
mysim = SystemModel["SystemDynamics.WorldDynamics.World3.Scenario_7"]
```

Out[1]:=



Show high-level properties of the scenario.

```
In[2]:= mysummary = mysim["Summary"]
```

	Model	SystemDynamics.WorldDynamics.World3.Scenario_7
	Description	More abundant non-recoverable natural resources and birth control
	Simulation Interval	True
	Plot	0
	Control	106
	Batch	True
Out[2]=	Simulation Length	265
	Simulation Length	265
	Diagram	

Set percent variation. 0.1 = nominal +/- 10%.

```
In[3]:= percentvar = 0.1
```

```
Out[3]= 0.1
```

Show the default **Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals**.

```
In[4]:= SystemModel[mysim] [
  {"ParameterValues", "Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[1]"}]
```

```
Out[4]= {Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[1] → 1}
```

```
In[5]:= SystemModel[mysim] [
  {"ParameterValues", "Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[2]"}]
```

```
Out[5]= {Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[2] → 1.5}
```

```
In[6]:= SystemModel[mysim] [
  {"ParameterValues", "Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[3]"}]
```

```
Out[6]= {Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[3] → 1.9}
```

```
In[7]:= SystemModel[mysim] [
  {"ParameterValues", "Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[4]"}]
```

```
Out[7]= {Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[4] → 2}
```

```
In[8]:= SystemModel[mysim] [
  {"ParameterValues", "Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[5]"}]
Out[8]= {Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[5] → 2}

In[9]:= SystemModel[mysim] [
  {"ParameterValues", "Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[6]"}]
Out[9]= {Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[6] → 2}


In[10]:= SystemModel[mysim] [
  {"ParameterValues", "Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[7]"}]
Out[10]= {Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[7] → 2}
```

Retrieve all variables that **SystemModelSimulateSensitivity** says depend on **Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals**. Set scenario start at 1950 because various **SystemModel** functions have problems with a step function at scenario time 1940. (This is a World3-specific quirk.)

```
In[11]:= simsensdata = SystemModelSimulateSensitivity[mysim,
  {1950, 2100}, {"Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[1]",
  "Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[2]",
  "Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[3]",
  "Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[4]",
  "Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[5]",
  "Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[6]",
  "Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[7]"}]
```

SystemModelSimulateSensitivity: At time 2002. s: An event occurred while performing sensitivity analysis. This may produce incorrect results depending on your model. Further similar warnings will not be displayed.

SystemModelSimulateSensitivity: At time 2067.375 s: In SystemDynamics.Functions.Utilities.Piecewise: Out of range

```
Out[11]= SystemModelSimulationData [  Model: Scenario_7
  Time: 1.95 x 103 to 2070. ]
```

Show the names of the World3 variables in **simsensdata** that **SystemModelSimulateSensitivity** recognizes.

```
In[12]:= simsensdata["SensitivityNames"]
Out[12]= {{Arable_Land_Dynamics1.Arable_Land.Integrator1.y,
  Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[1]},
  {Arable_Land_Dynamics1.Arable_Land.Integrator1.y,
  Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[2]},
  {Arable_Land_Dynamics1.Arable_Land.Integrator1.y,
  Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[3]},
  {Arable_Land_Dynamics1.Arable_Land.Integrator1.y,
  Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[4]},
```

```

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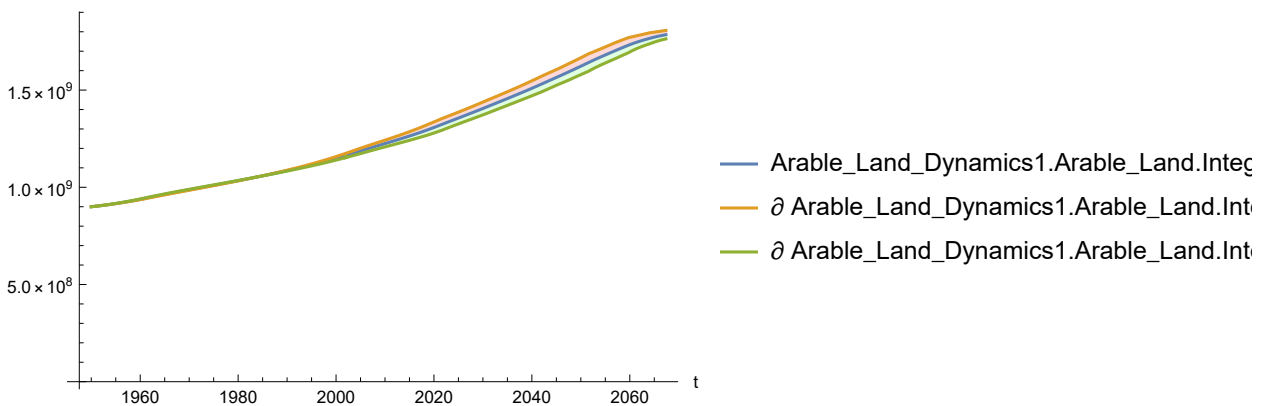
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Programming note: in Mathematica, the following list of **SystemModelPlot** instructions could be replaced by a loop or iteration construct that cycles over **simsensdata**. The resulting source code would be elegant, but upon execution it turns out to have dynamic updating issues that the Platform described above does not handle well.

Plot the sensitivity of `Arable_Land_Dynamics1.Arable_Land.Integrator1.y` to `Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals`.

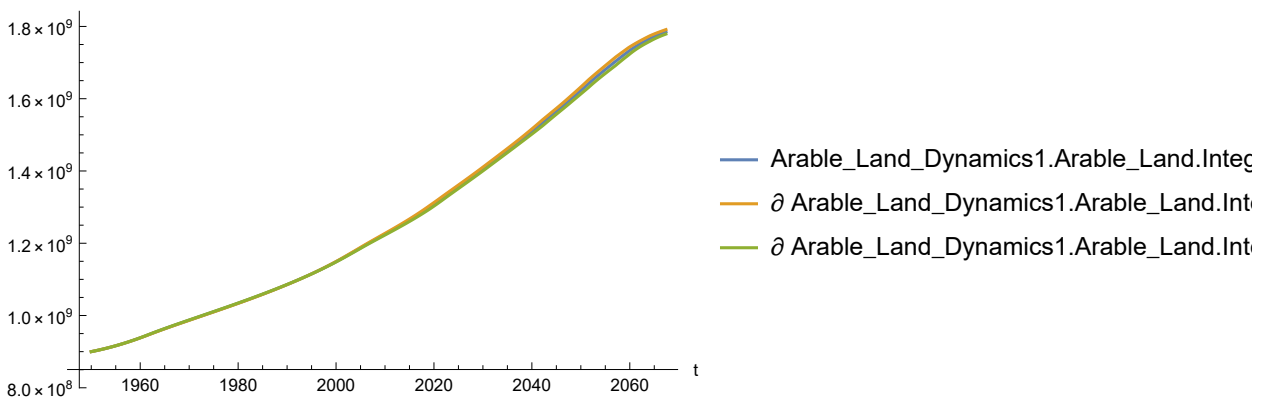
```
In[13]:= SystemModelPlot[simsensdata, {"Arable_Land_Dynamics1.Arable_Land.Integrator1.y",
"Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[1]", percentvar}]
```

Out[13]=



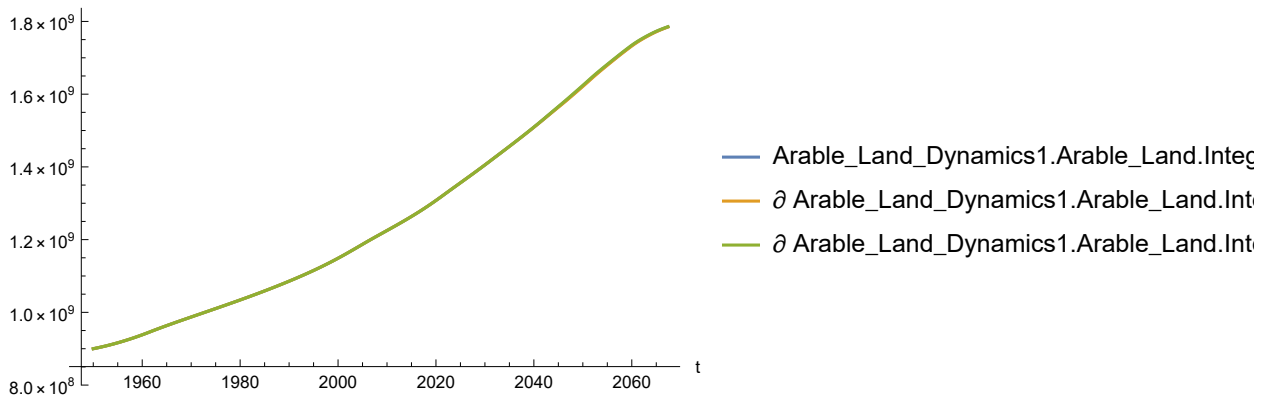
```
In[14]:= SystemModelPlot[simsensdata, {"Arable_Land_Dynamics1.Arable_Land.Integrator1.y",
"Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[2]", percentvar}]
```

Out[14]=



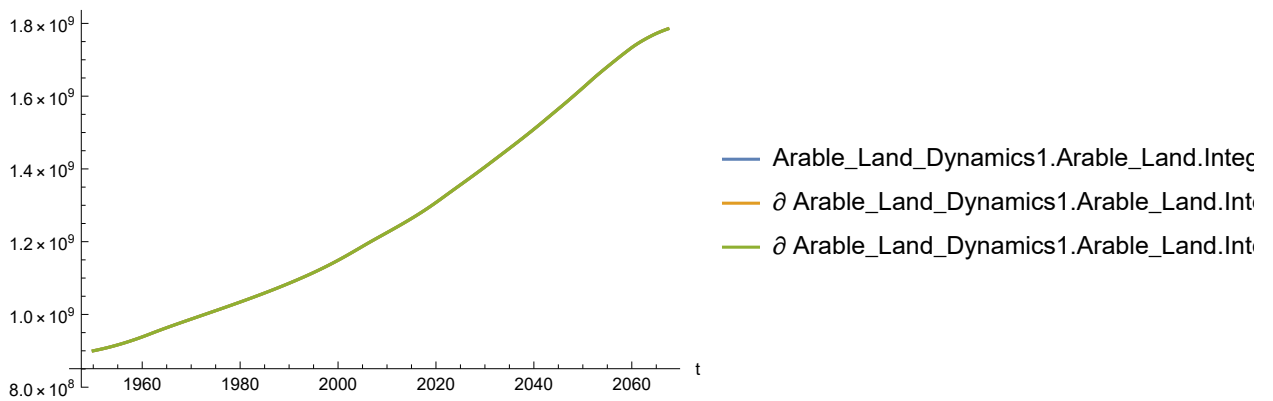

```
In[15]:= SystemModelPlot[simsensdata, {"Arable_Land_Dynamics1.Arable_Land.Integrator1.y",
"Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[3]", percentvar}]
```

Out[15]=



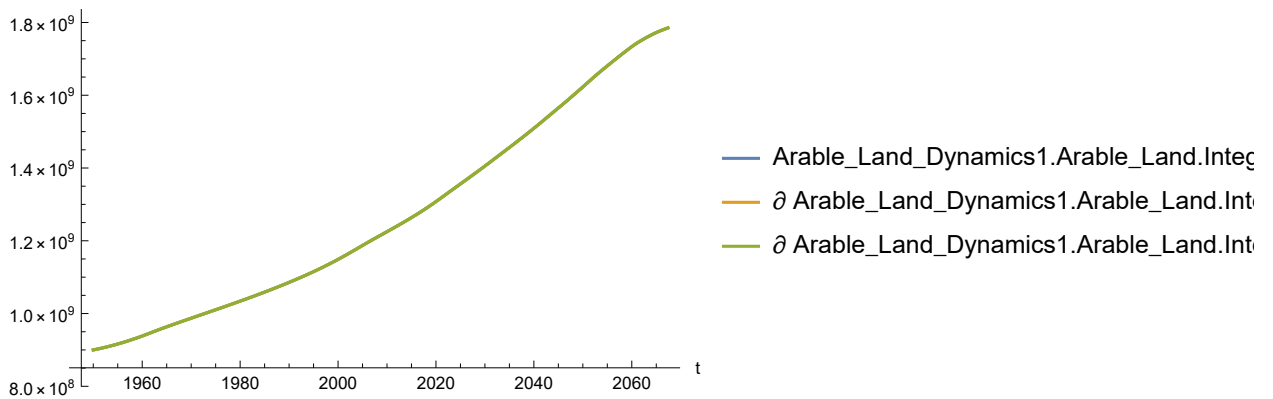
```
In[16]:= SystemModelPlot[simsensdata, {"Arable_Land_Dynamics1.Arable_Land.Integrator1.y",
"Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[4]", percentvar}]
```

Out[16]=



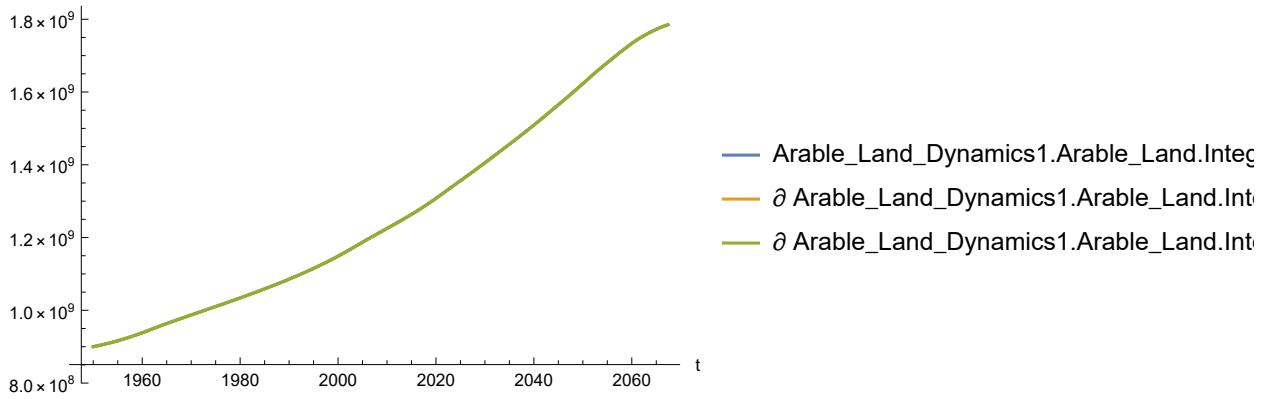
```
In[17]:= SystemModelPlot[simsensdata, {"Arable_Land_Dynamics1.Arable_Land.Integrator1.y",
"Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[5]", percentvar}]
```

Out[17]=



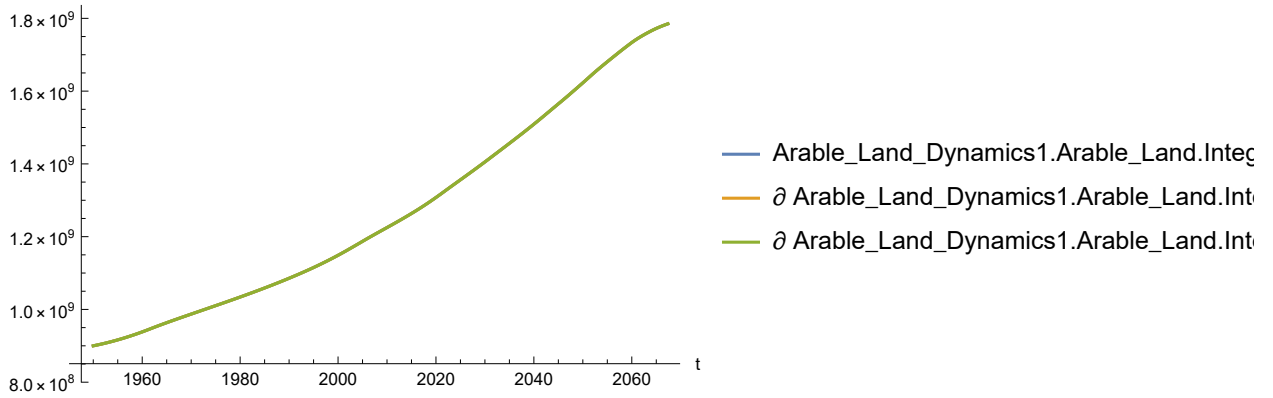
```
In[18]:= SystemModelPlot[simsensdata, {"Arable_Land_Dynamics1.Arable_Land.Integrator1.y",
"Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[6]", percentvar}]
```

Out[18]=



```
In[19]:= SystemModelPlot[simsensdata, {"Arable_Land_Dynamics1.Arable_Land.Integrator1.y",
"Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[7]", percentvar}]
```

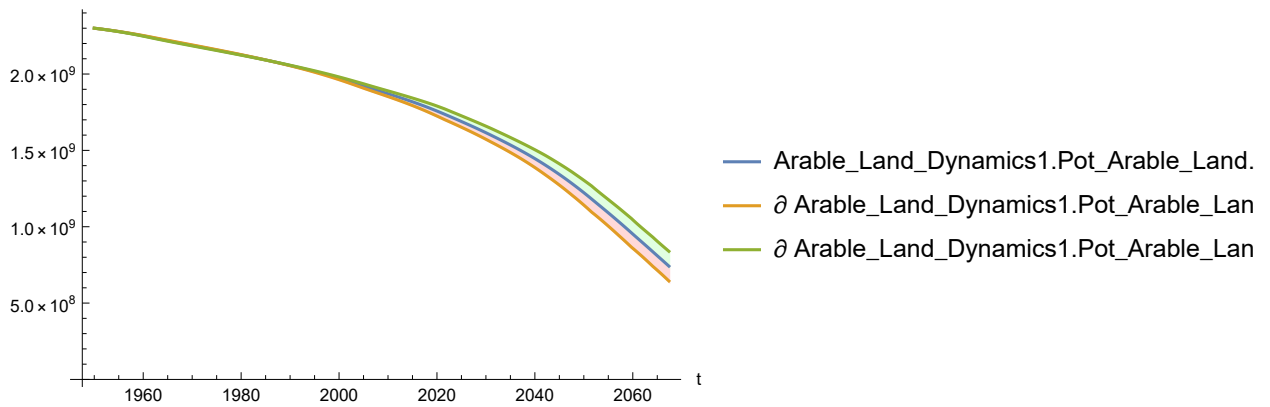
Out[19]=



Plot the sensitivity of Arable_Land_Dynamics1.Pot_Arable_Land.Integrator1.y to Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals.

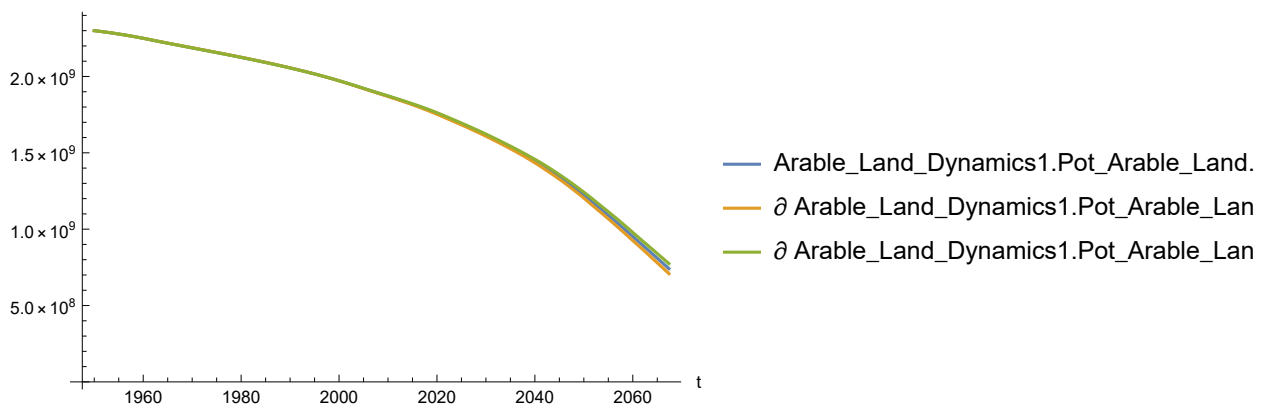
```
In[20]:= SystemModelPlot[simsensdata, {"Arable_Land_Dynamics1.Pot_Arable_Land.Integrator1.y",
"Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[1]", percentvar}]
```

Out[20]=



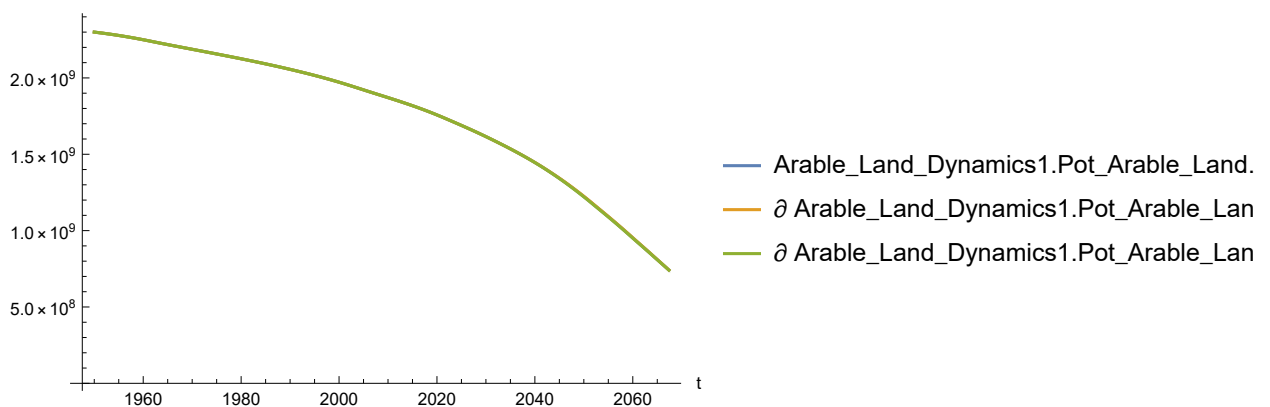
```
In[21]:= SystemModelPlot[simsensdata, {"Arable_Land_Dynamics1.Pot_Arable_Land.Integrator1.y",
"Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[2]", percentvar}]
```

Out[21]=



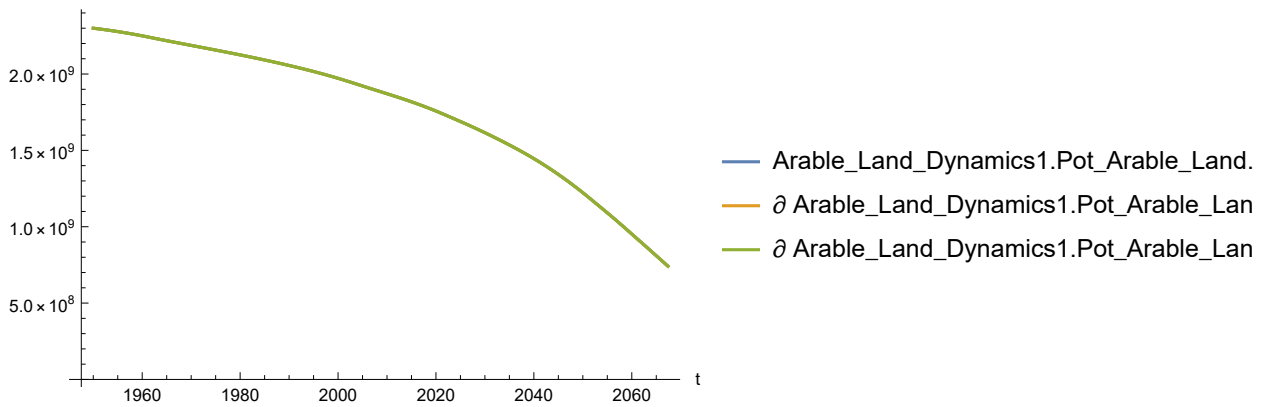
```
In[22]:= SystemModelPlot[simsensdata, {"Arable_Land_Dynamics1.Pot_Arable_Land.Integrator1.y",
"Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[3]", percentvar}]
```

Out[22]=



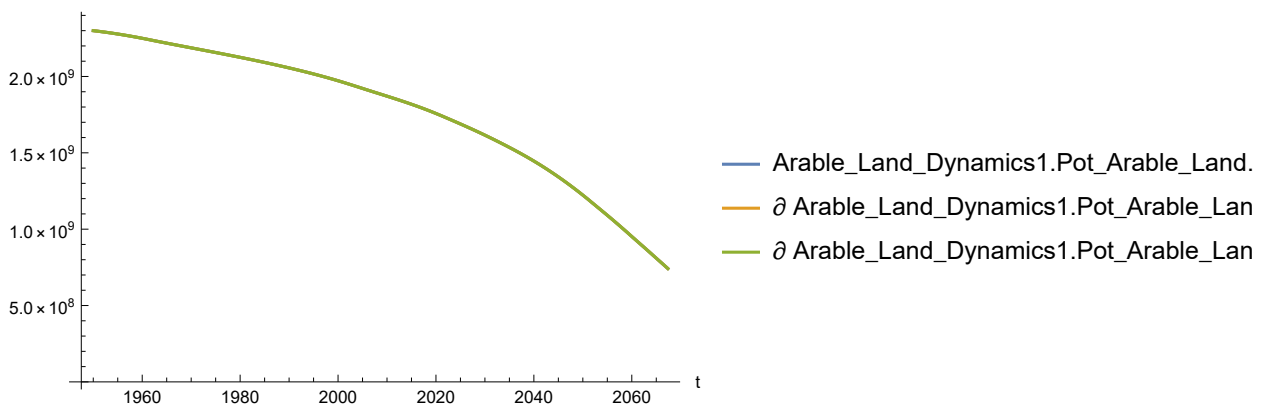
```
In[23]:= SystemModelPlot[simsensdata, {"Arable_Land_Dynamics1.Pot_Arable_Land.Integrator1.y",
"Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[4]", percentvar}]
```

Out[23]=



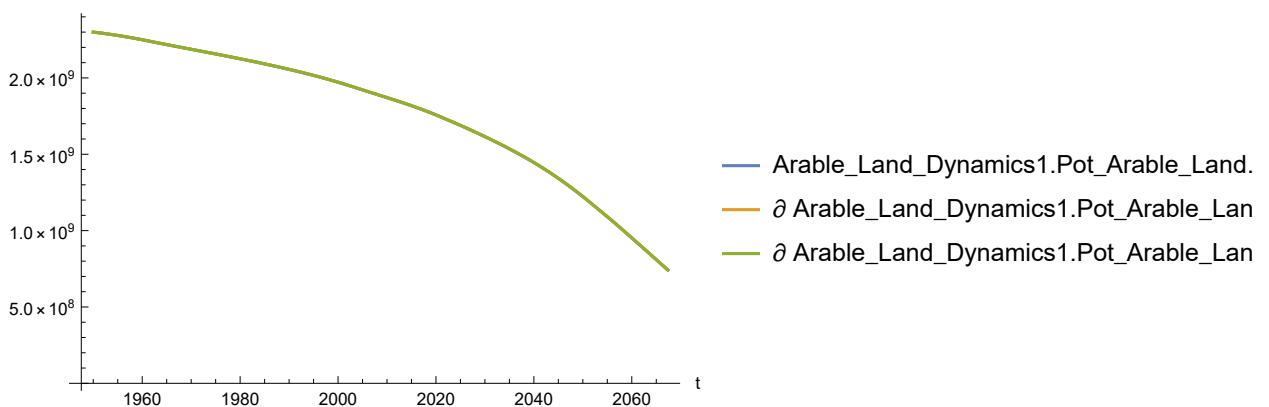
```
In[24]:= SystemModelPlot[simsensdata, {"Arable_Land_Dynamics1.Pot_Arable_Land.Integrator1.y",
"Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[5]", percentvar}]
```

Out[24]=



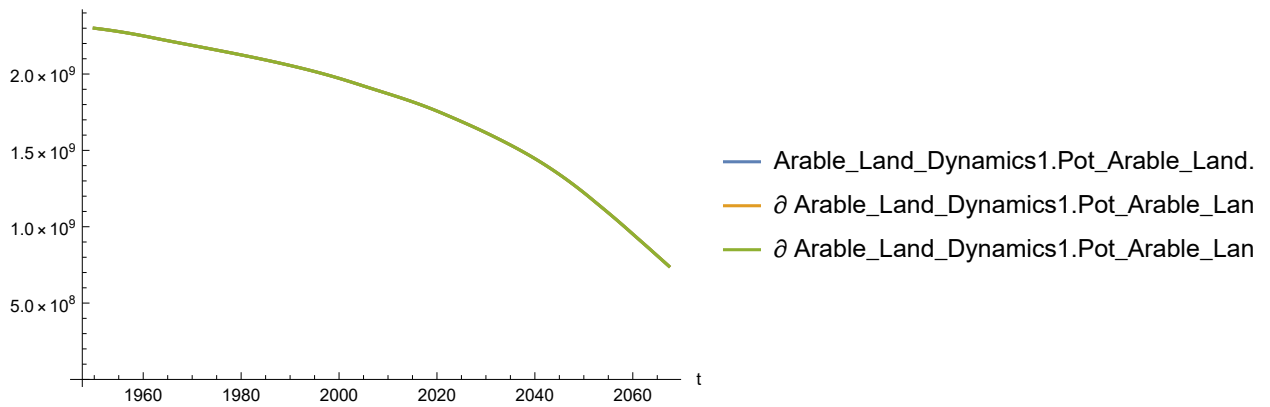
```
In[25]:= SystemModelPlot[simsensdata, {"Arable_Land_Dynamics1.Pot_Arable_Land.Integrator1.y",
"Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[6]", percentvar}]
```

Out[25]=



```
In[26]:= SystemModelPlot[simsensdata, {"Arable_Land_Dynamics1.Pot_Arable_Land.Integrator1.y",
"Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[7]", percentvar}]
```

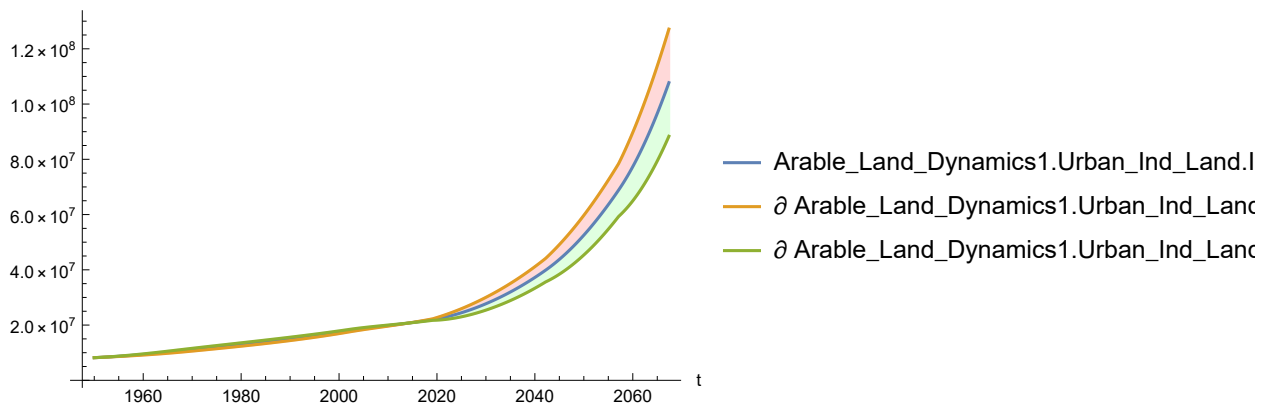
Out[26]=



Plot the sensitivity of Arable_Land_Dynamics1.Urban_Ind_Land.Integrator1.y to Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals.

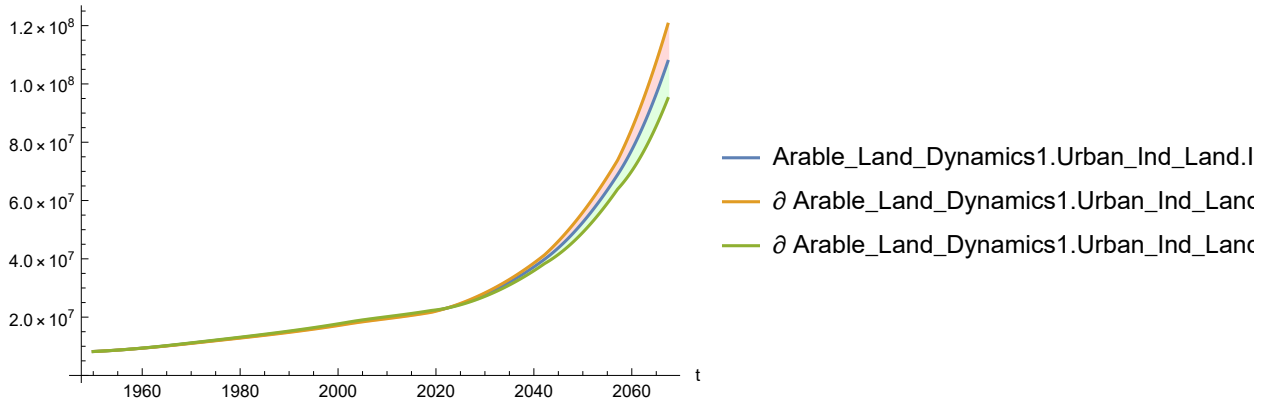
```
In[27]:= SystemModelPlot[simsensdata, {"Arable_Land_Dynamics1.Urban_Ind_Land.Integrator1.y",
"Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[1]", percentvar}]
```

Out[27]=



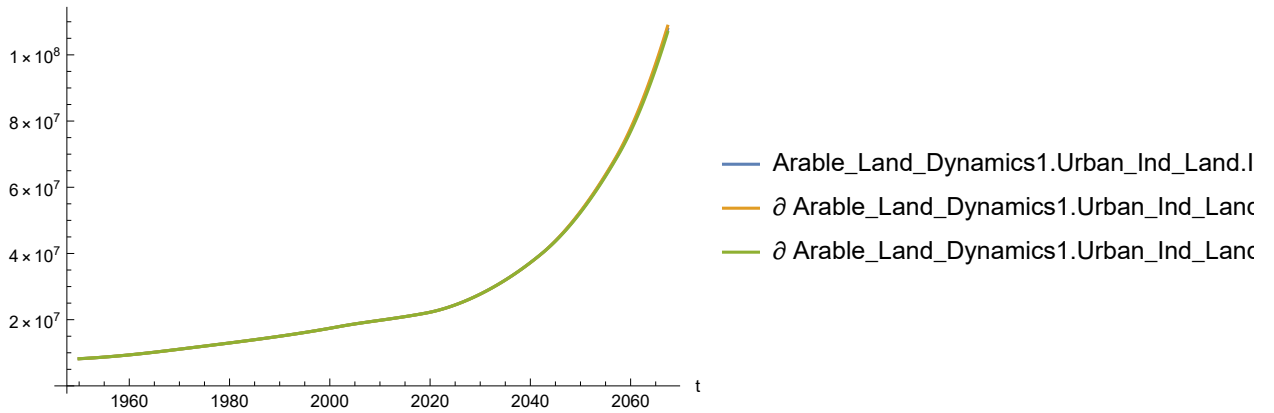
```
In[28]:= SystemModelPlot[simsensdata, {"Arable_Land_Dynamics1.Urban_Ind_Land.Integrator1.y",
"Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[2]", percentvar}]
```

Out[28]=



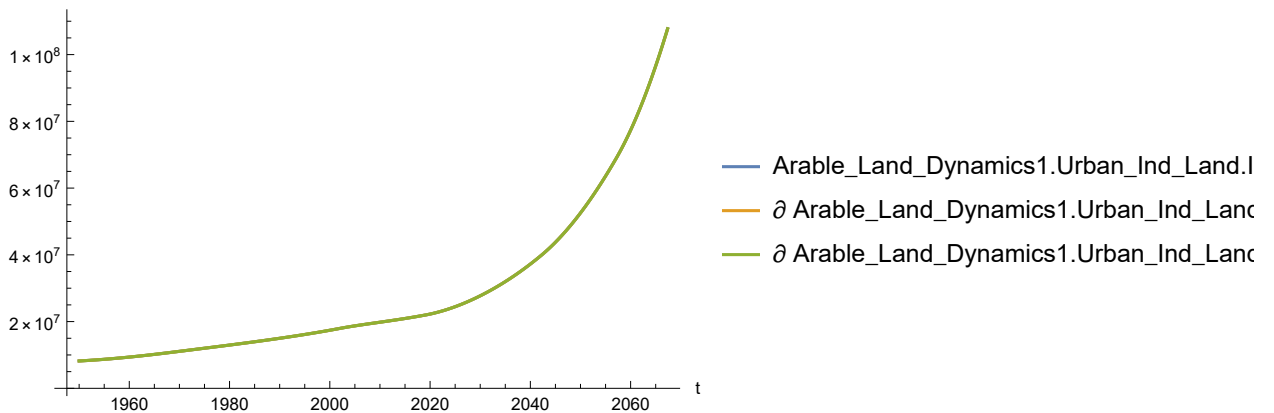
```
In[29]:= SystemModelPlot[simsensdata, {"Arable_Land_Dynamics1.Urban_Ind_Land.Integrator1.y",
"Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[3]", percentvar}]
```

Out[29]=



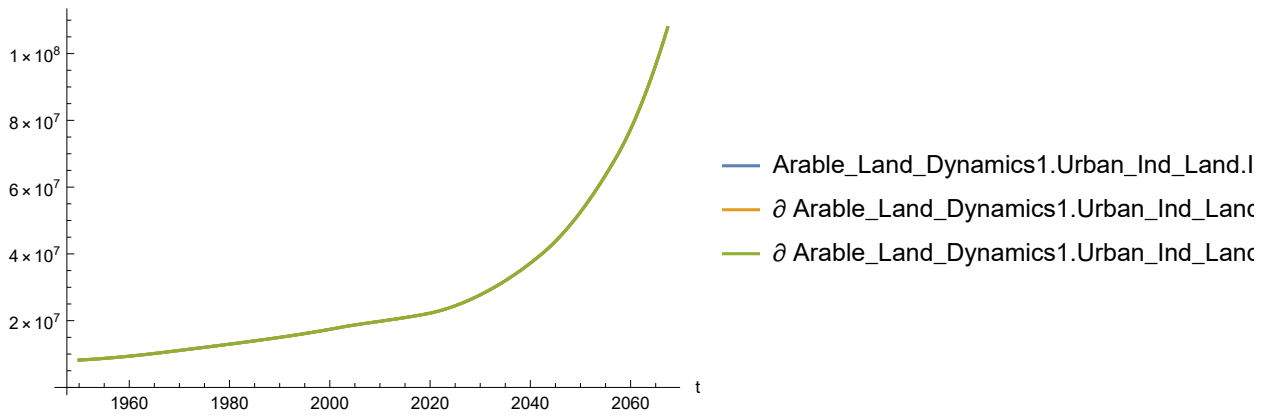
```
In[30]:= SystemModelPlot[simsensdata, {"Arable_Land_Dynamics1.Urban_Ind_Land.Integrator1.y",
"Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[4]", percentvar}]
```

Out[30]=



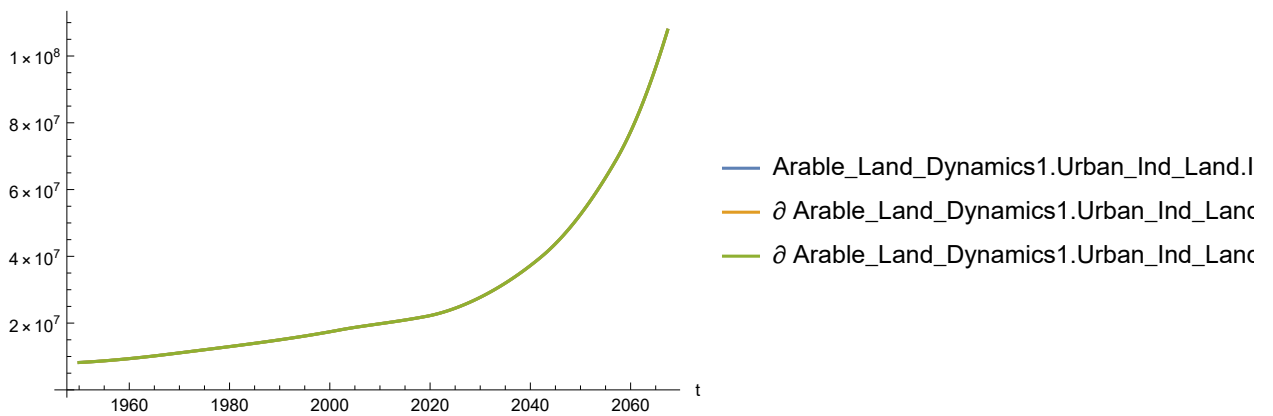
```
In[31]:= SystemModelPlot[simsensdata, {"Arable_Land_Dynamics1.Urban_Ind_Land.Integrator1.y",
"Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[5]", percentvar}]
```

Out[31]=



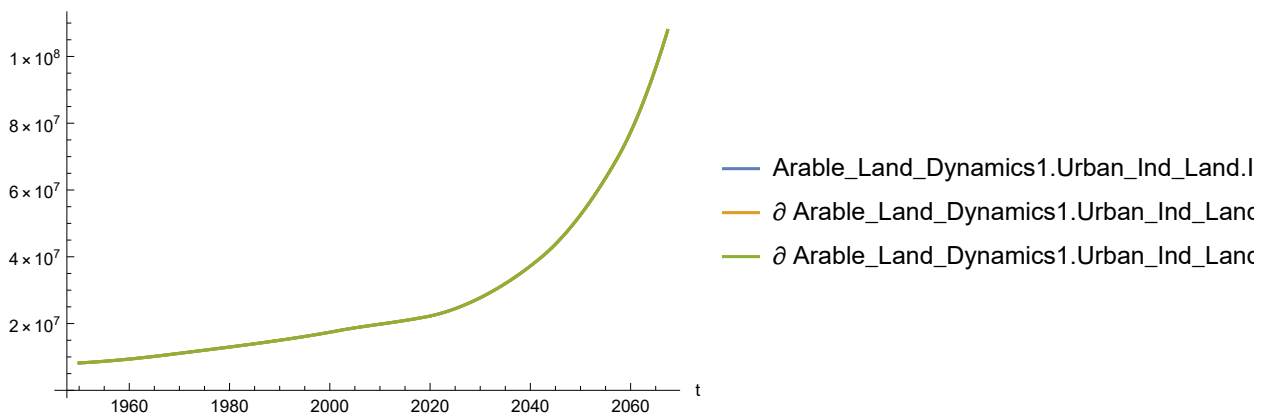
```
In[32]:= SystemModelPlot[simsensdata, {"Arable_Land_Dynamics1.Urban_Ind_Land.Integrator1.y",
"Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[6]", percentvar}]
```

Out[32]=



```
In[33]:= SystemModelPlot[simsensdata, {"Arable_Land_Dynamics1.Urban_Ind_Land.Integrator1.y",
"Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[7]", percentvar}]
```

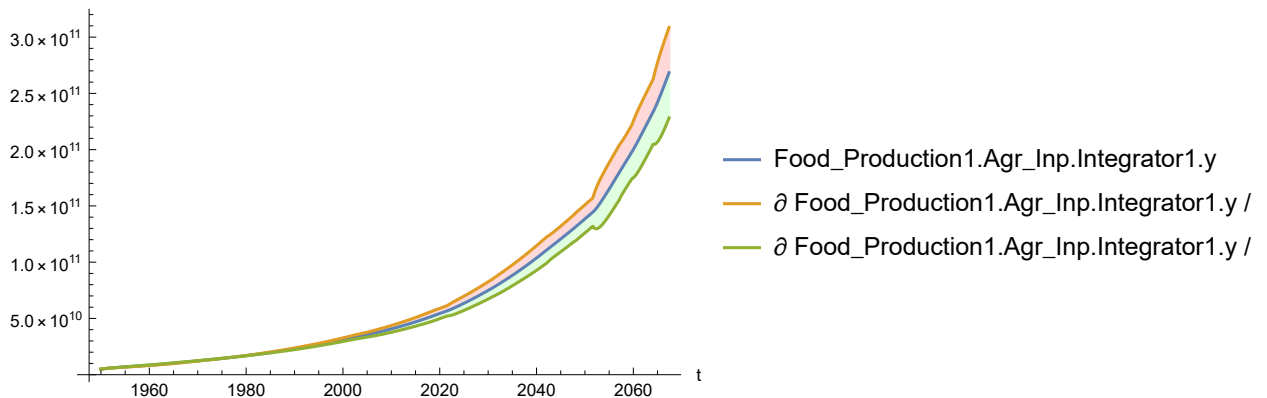
Out[33]=



Plot sensitivity of Food_Production.Agr_Inp.Integrator1.y to **Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals**.

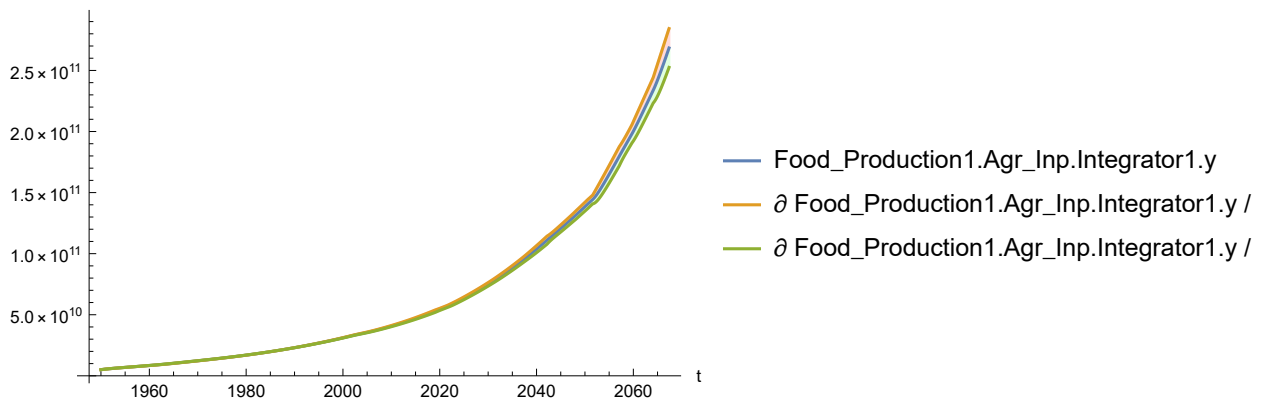
```
In[34]:= SystemModelPlot[simsensdata, {"Food_Production1.Agr_Inp.Integrator1.y",
  "Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[1]", percentvar}]
```

Out[34]=



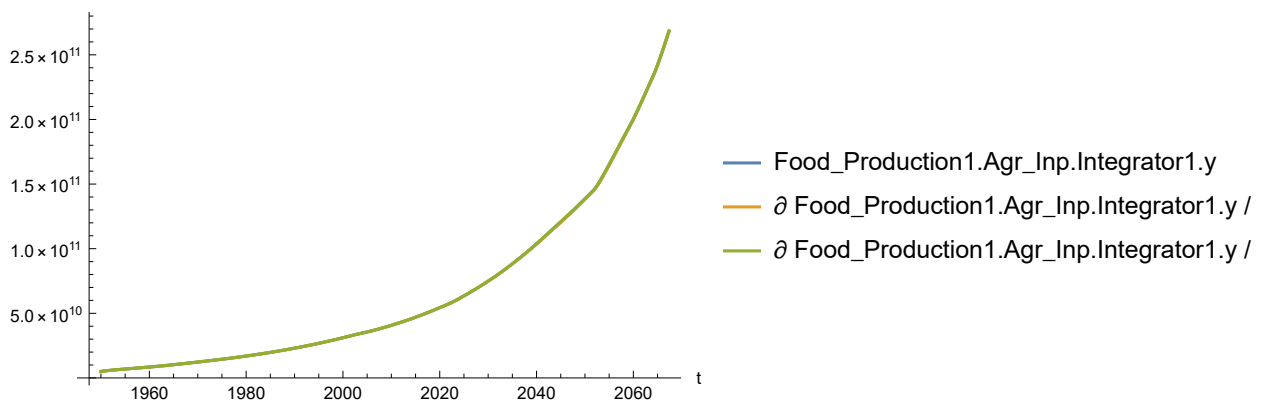
```
In[35]:= SystemModelPlot[simsensdata, {"Food_Production1.Agr_Inp.Integrator1.y",
  "Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[2]", percentvar}]
```

Out[35]=



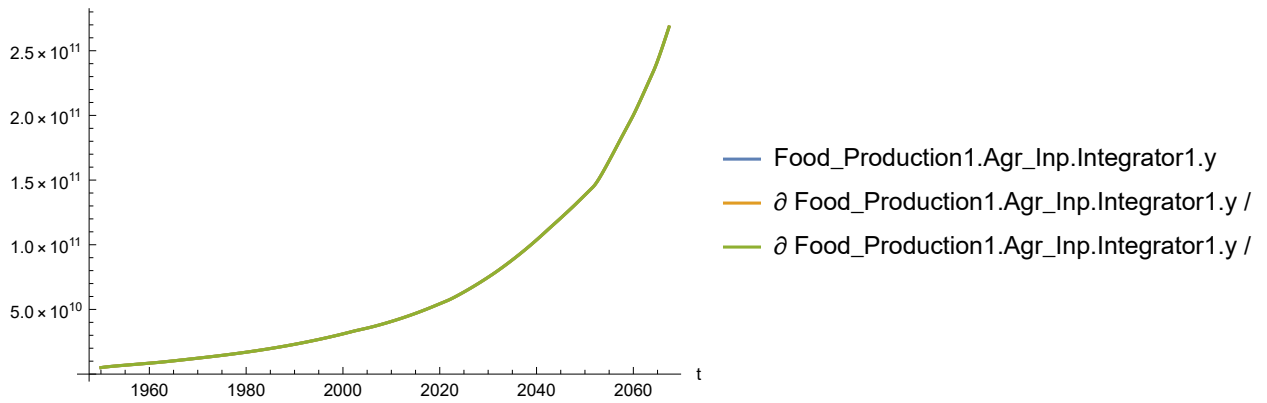
```
In[36]:= SystemModelPlot[simsensdata, {"Food_Production1.Agr_Inp.Integrator1.y",
  "Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[3]", percentvar}]
```

Out[36]=



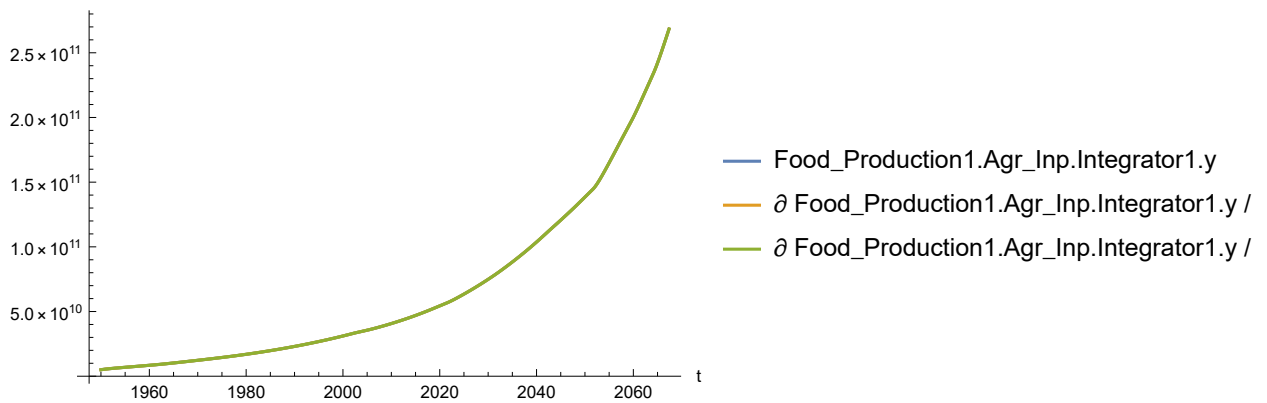

```
In[37]:= SystemModelPlot[simsensdata, {"Food_Production1.Agr_Inp.Integrator1.y",
"Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[4]", percentvar}]
```

Out[37]=



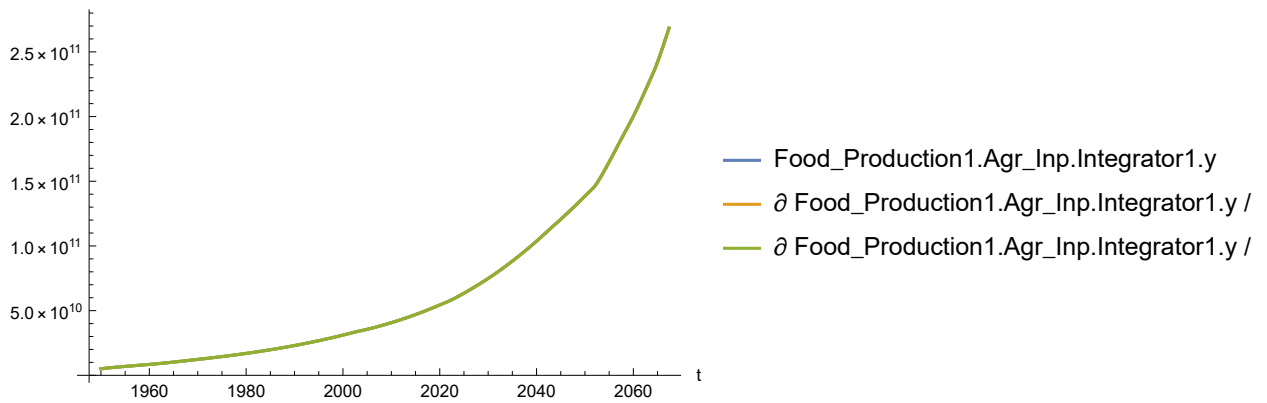
```
In[38]:= SystemModelPlot[simsensdata, {"Food_Production1.Agr_Inp.Integrator1.y",
"Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[5]", percentvar}]
```

Out[38]=



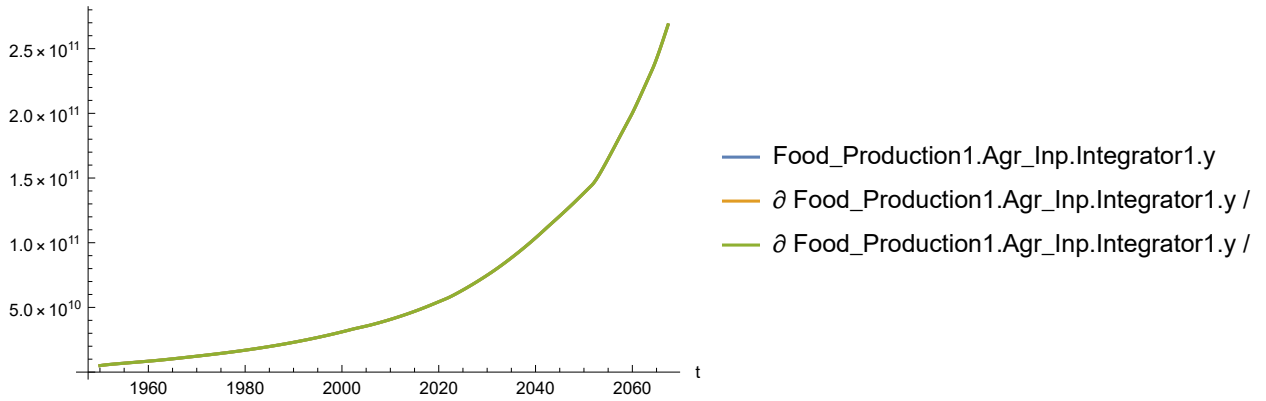
```
In[39]:= SystemModelPlot[simsensdata, {"Food_Production1.Agr_Inp.Integrator1.y",
"Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[6]", percentvar}]
```

Out[39]=



```
In[40]:= SystemModelPlot[simsensdata, {"Food_Production1.Agr_Inp.Integrator1.y",
    "Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[7]", percentvar}]
```

Out[40]=

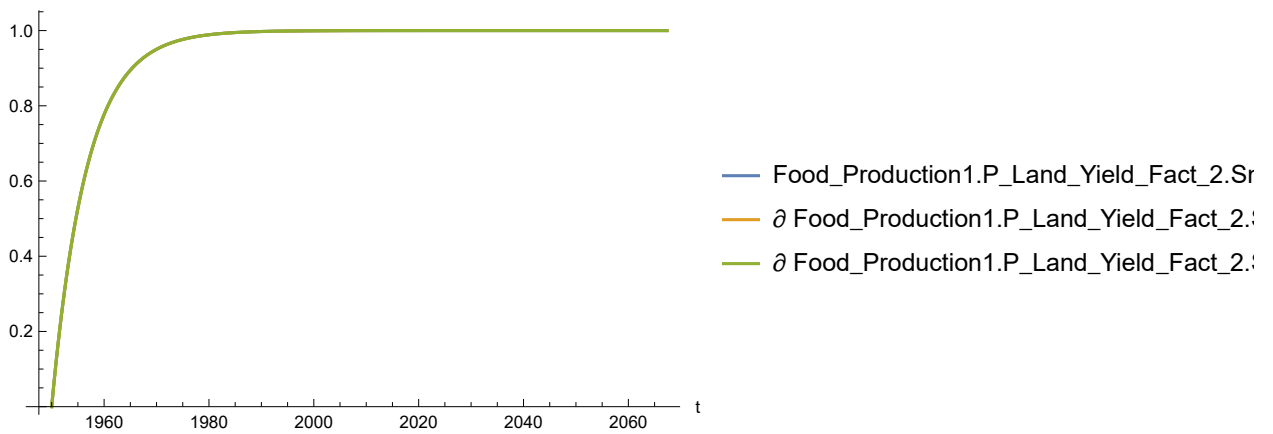


Plot sensitivity of **Food_Production1.P_Land_Yield_Fact2** to **Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals**.

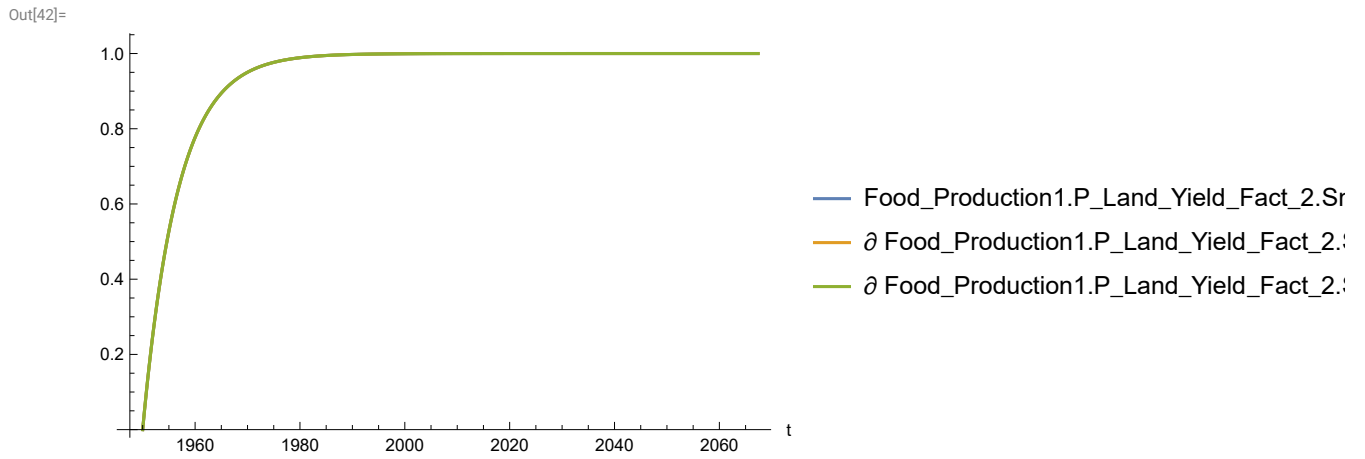
Plot the sensitivity of Food_Production1.P_Land_Yield_Fact_2.SmoothN.Integrator1.y, where N = 1, 2, 3, to variation in **Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals**.

```
In[41]:= SystemModelPlot[simsensdata, {"Food_Production1.P_Land_Yield_Fact_2.Smooth1.Integrator1.y",
    "Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[1]", percentvar}]
```

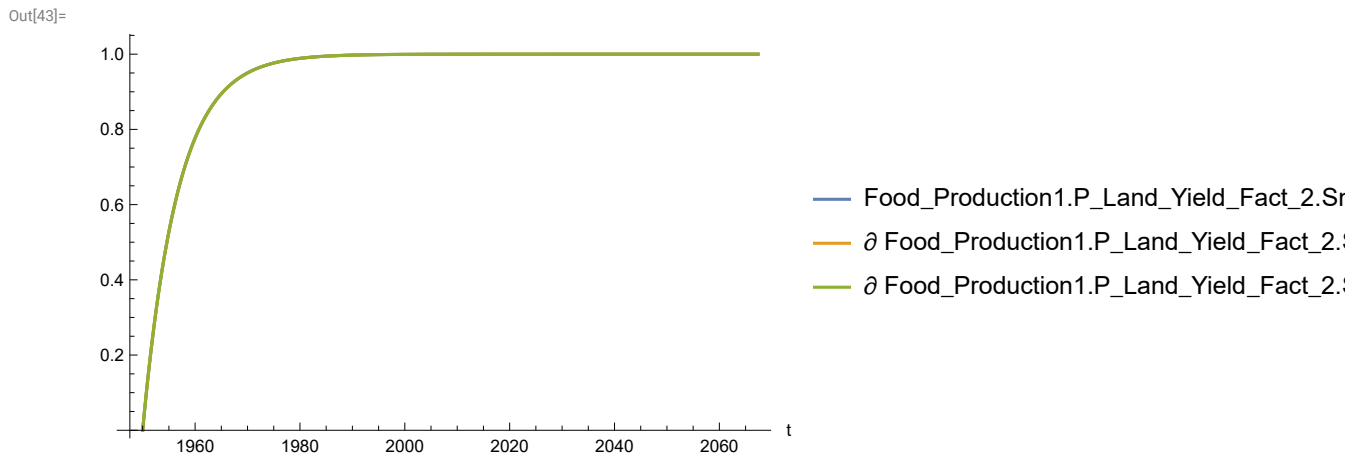
Out[41]=



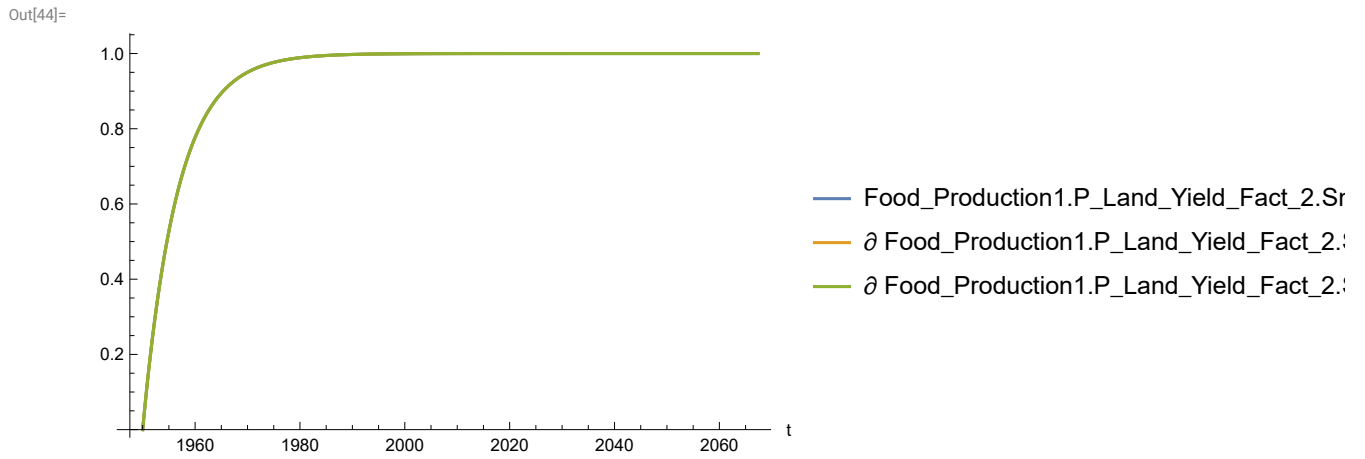
```
In[42]:= SystemModelPlot[simsensdata,
  {"Food_Production1.P_Land_Yield_Fact_2.Smooth1.Integrator1.y",
   "Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[2]", percentvar}]
```



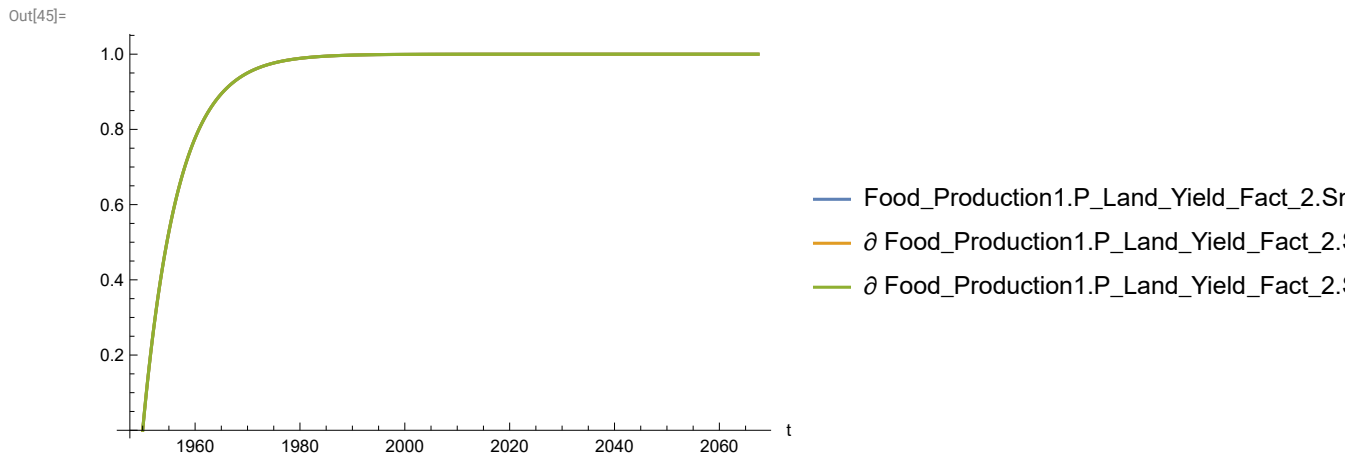
```
In[43]:= SystemModelPlot[simsensdata,
  {"Food_Production1.P_Land_Yield_Fact_2.Smooth1.Integrator1.y",
   "Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[3]", percentvar}]
```



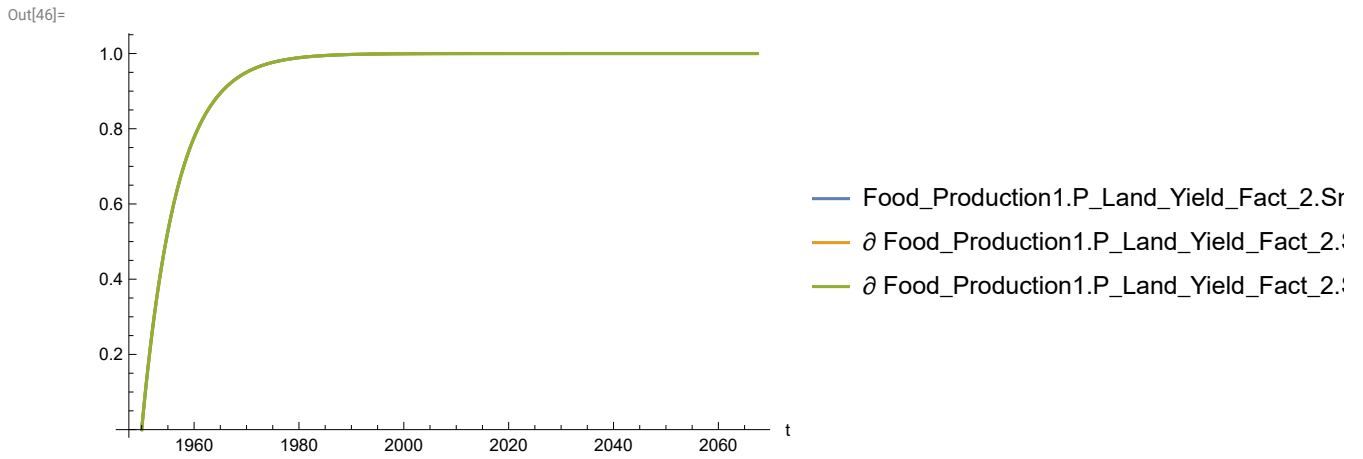
```
In[44]:= SystemModelPlot[simsensdata,
  {"Food_Production1.P_Land_Yield_Fact_2.Smooth1.Integrator1.y",
   "Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[4]", percentvar}]
```



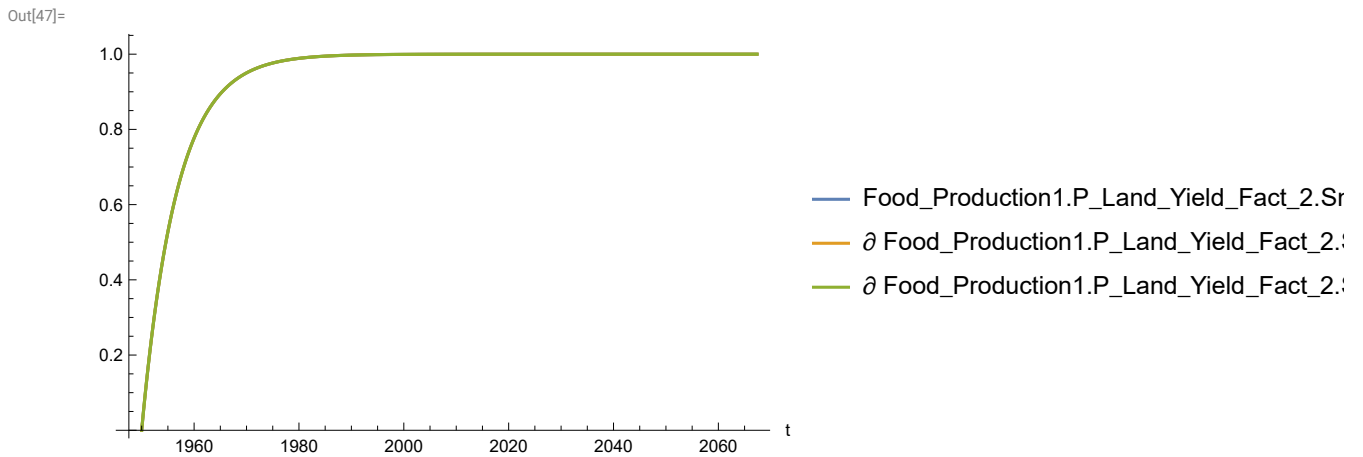
```
In[45]:= SystemModelPlot[simsensdata,
  {"Food_Production1.P_Land_Yield_Fact_2.Smooth1.Integrator1.y",
   "Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[5]", percentvar}]
```



```
In[46]:= SystemModelPlot[simsensdata,
  {"Food_Production1.P_Land_Yield_Fact_2.Smooth1.Integrator1.y",
   "Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[6]", percentvar}]
```

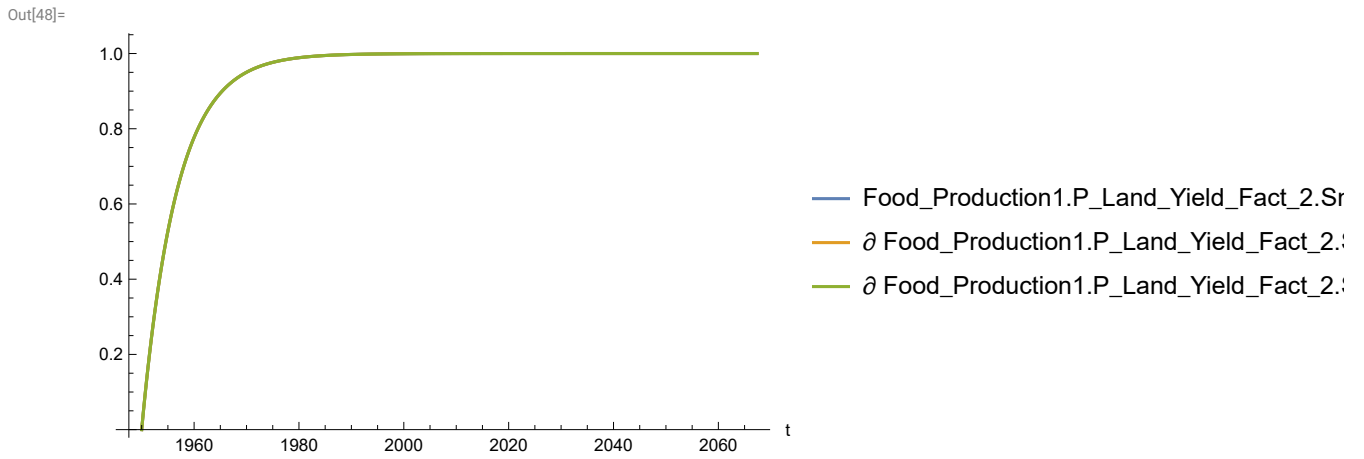


```
In[47]:= SystemModelPlot[simsensdata,
  {"Food_Production1.P_Land_Yield_Fact_2.Smooth1.Integrator1.y",
   "Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[7]", percentvar}]
```

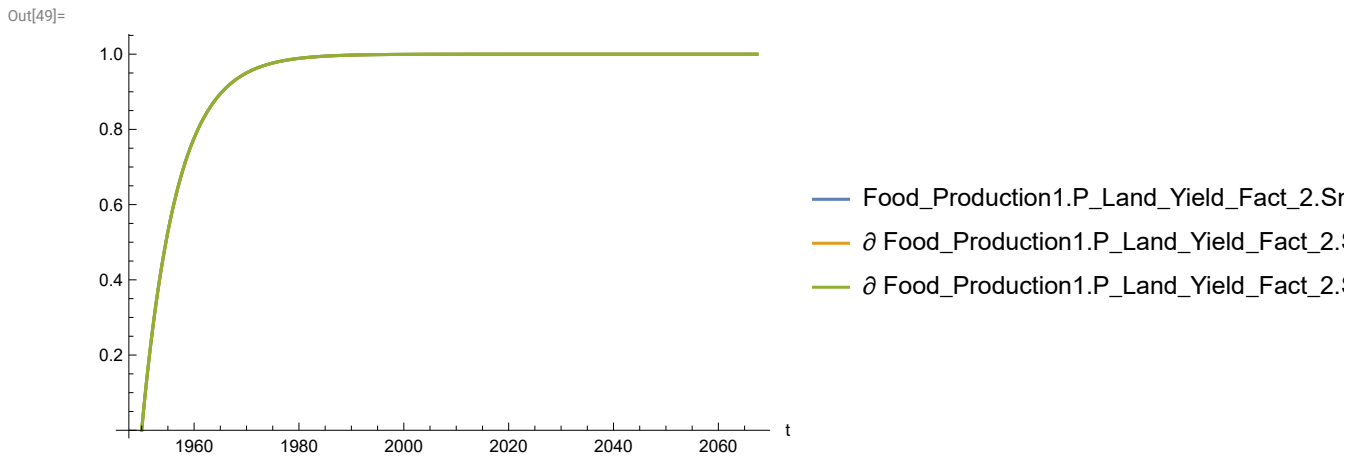


Plot the sensitivity of Food_Production1.P_Land_Yield_Fact_2.Smooth1.Integrator1.y to Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals.

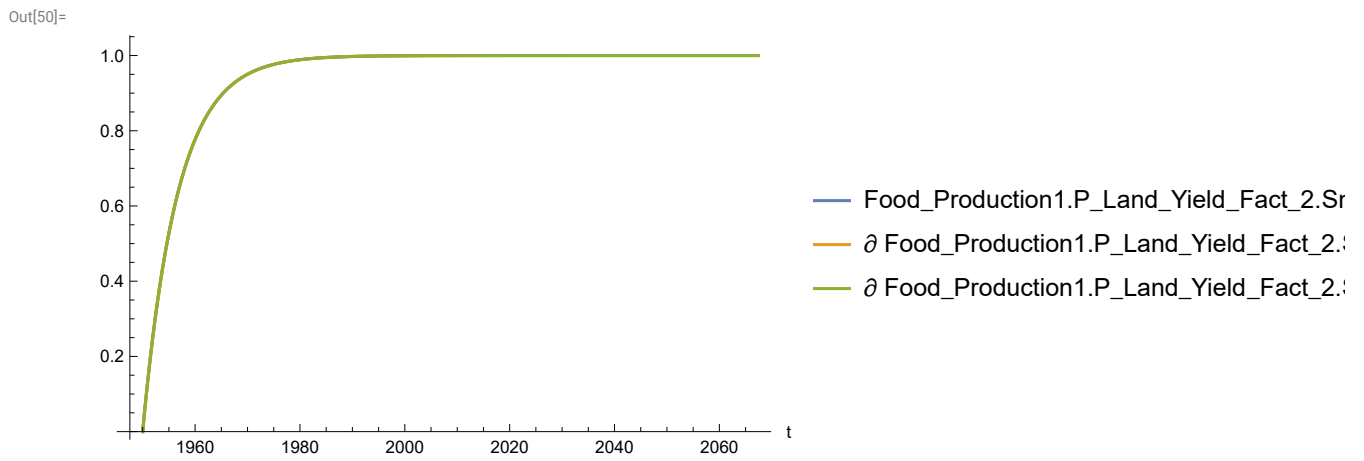
```
In[48]:= SystemModelPlot[simsensdata,
  {"Food_Production1.P_Land_Yield_Fact_2.Smooth1.Integrator1.y",
   "Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[1]", percentvar}]
```



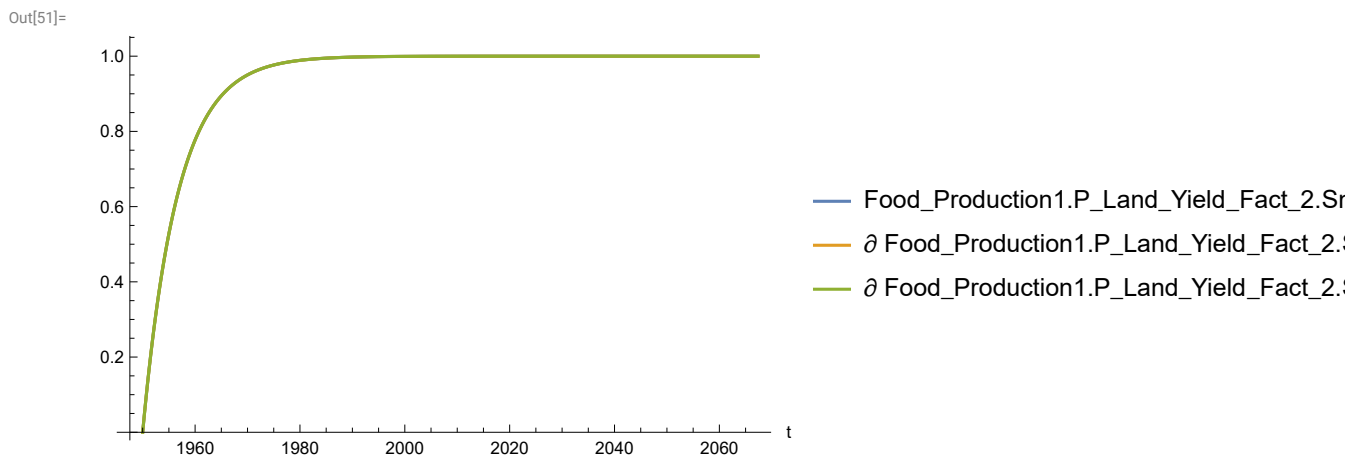
```
In[49]:= SystemModelPlot[simsensdata,
  {"Food_Production1.P_Land_Yield_Fact_2.Smooth1.Integrator1.y",
   "Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[2]", percentvar}]
```



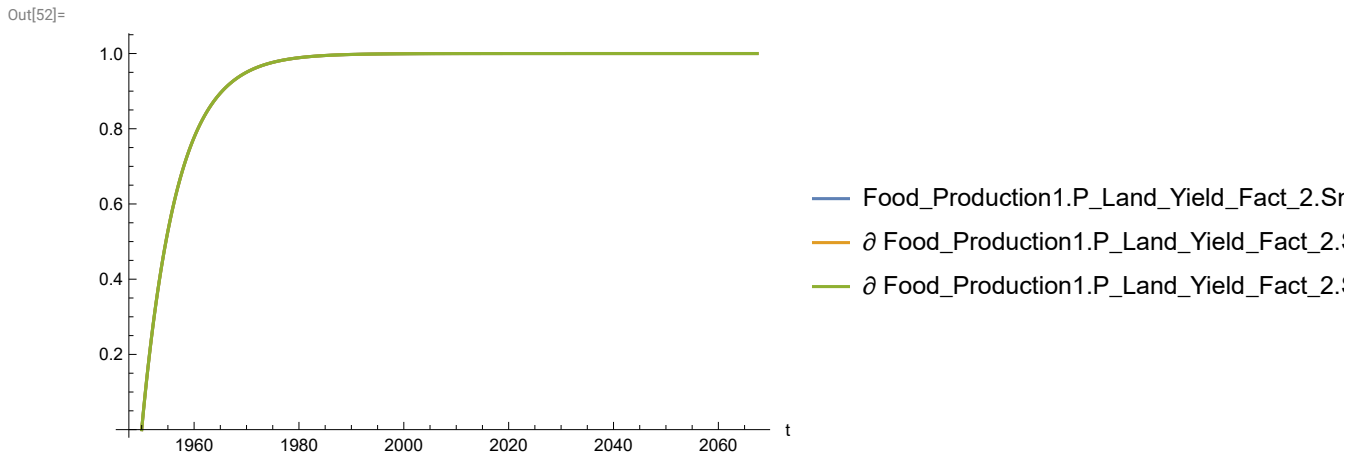
```
In[50]:= SystemModelPlot[simsensdata,
  {"Food_Production1.P_Land_Yield_Fact_2.Smooth1.Integrator1.y",
   "Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[3]", percentvar}]
```



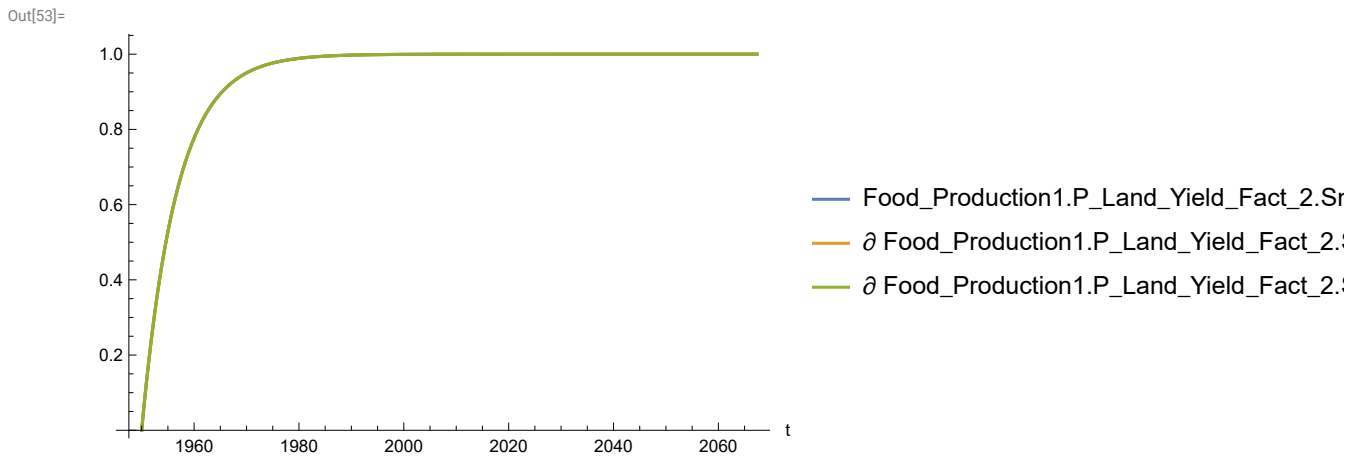
```
In[51]:= SystemModelPlot[simsensdata,
  {"Food_Production1.P_Land_Yield_Fact_2.Smooth1.Integrator1.y",
   "Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[4]", percentvar}]
```



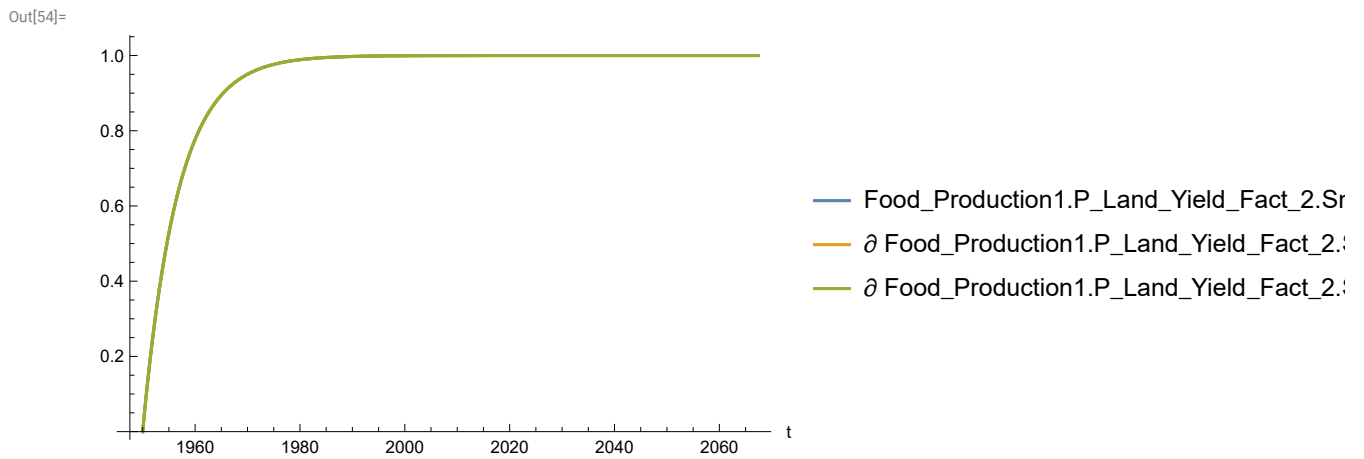
```
In[52]:= SystemModelPlot[simsensdata,
  {"Food_Production1.P_Land_Yield_Fact_2.Smooth1.Integrator1.y",
   "Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[5]", percentvar}]
```



```
In[53]:= SystemModelPlot[simsensdata,
  {"Food_Production1.P_Land_Yield_Fact_2.Smooth1.Integrator1.y",
   "Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[6]", percentvar}]
```

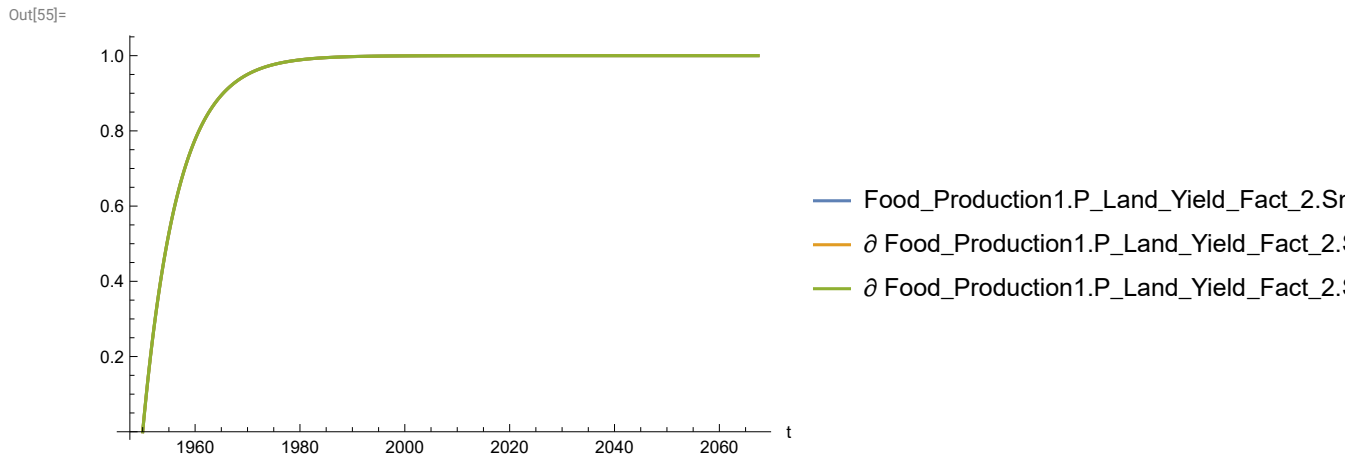



```
In[54]:= SystemModelPlot[simsensdata,
  {"Food_Production1.P_Land_Yield_Fact_2.Smooth1.Integrator1.y",
   "Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[7]", percentvar}]
```

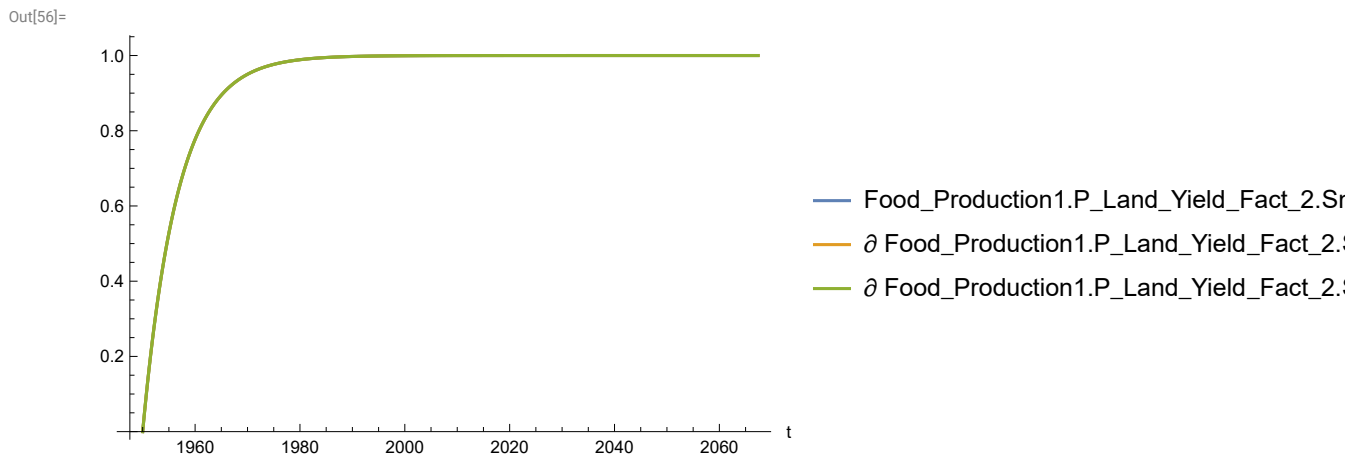


Plot the sensitivity of Food_Production1.P_Land_Yield_Fact_2.Smooth1.Integrator1.y to Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals.

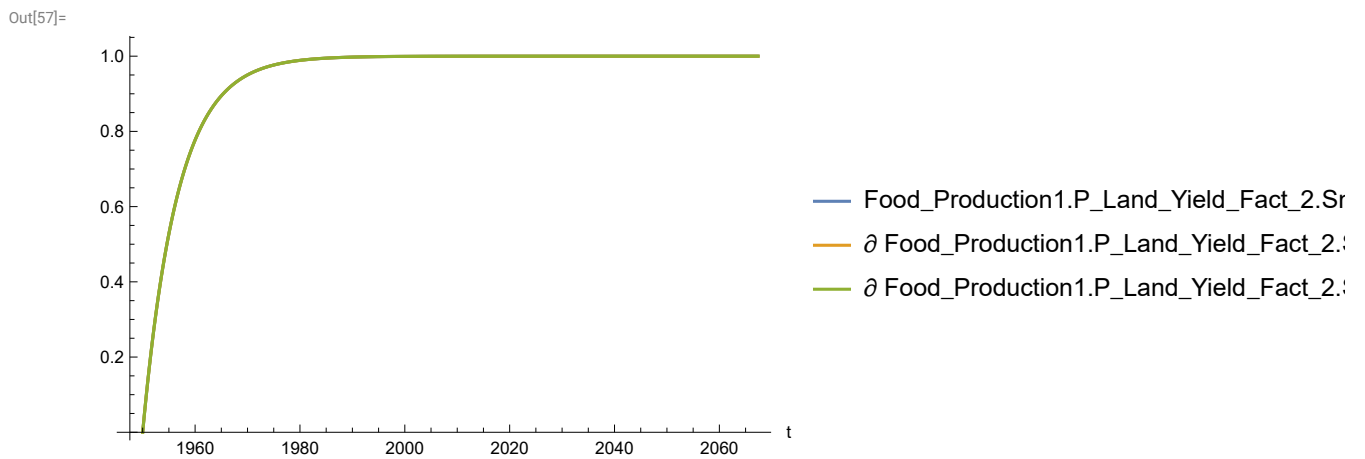
```
In[55]:= SystemModelPlot[simsensdata,
  {"Food_Production1.P_Land_Yield_Fact_2.Smooth1.Integrator1.y",
   "Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[1]", percentvar}]
```



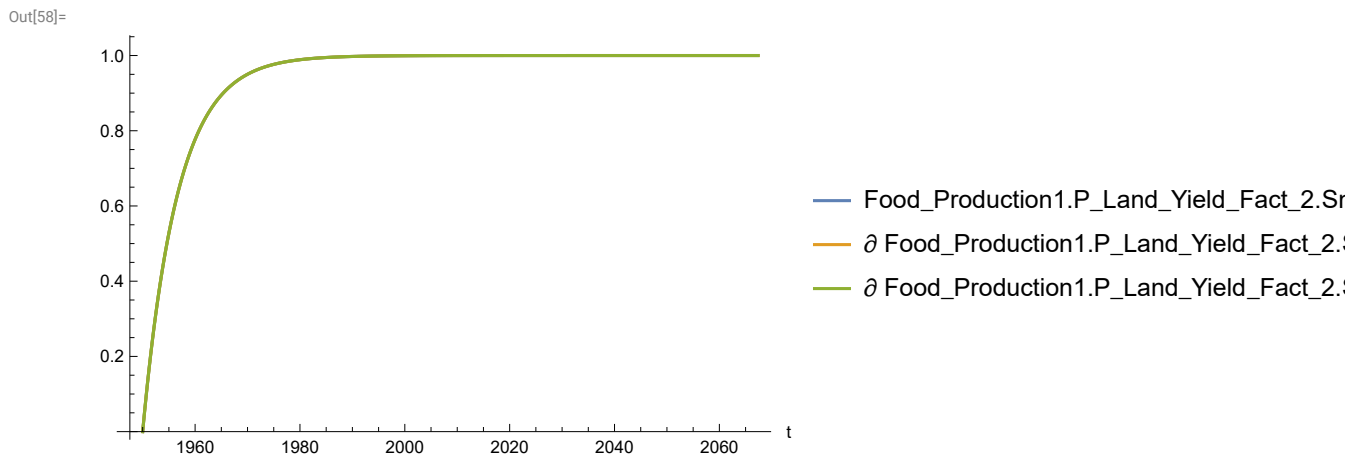
```
In[56]:= SystemModelPlot[simsensdata,
  {"Food_Production1.P_Land_Yield_Fact_2.Smooth1.Integrator1.y",
   "Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[2]", percentvar}]
```



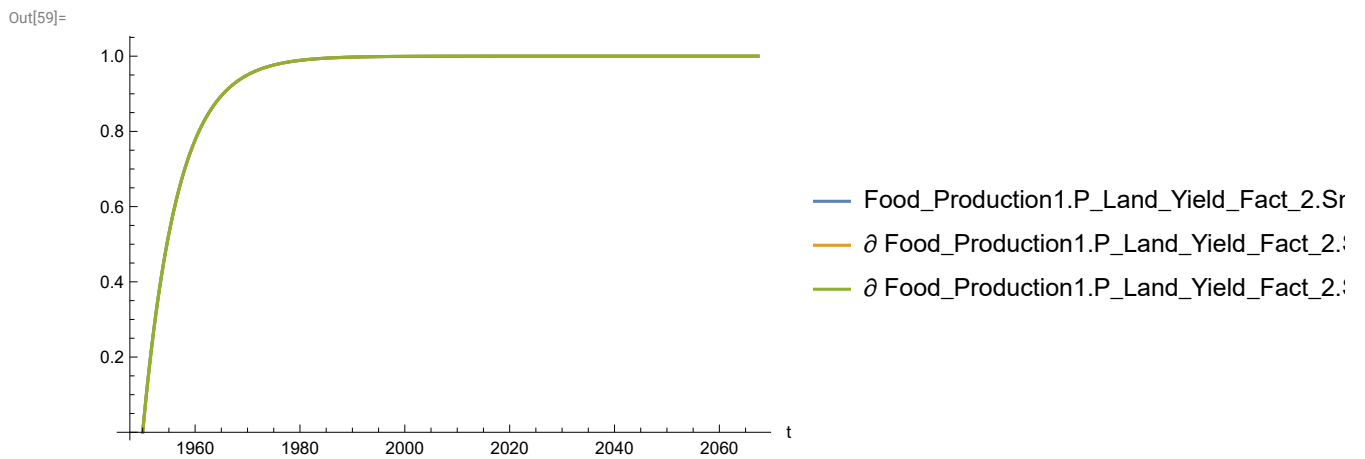
```
In[57]:= SystemModelPlot[simsensdata,
  {"Food_Production1.P_Land_Yield_Fact_2.Smooth1.Integrator1.y",
   "Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[3]", percentvar}]
```



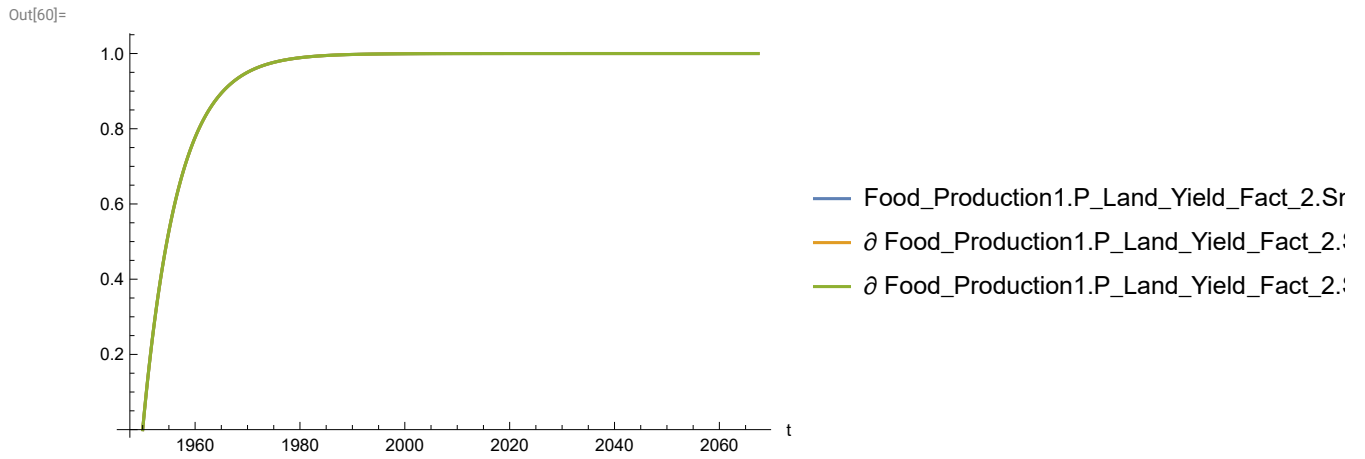
```
In[58]:= SystemModelPlot[simsensdata,
  {"Food_Production1.P_Land_Yield_Fact_2.Smooth1.Integrator1.y",
   "Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[4]", percentvar}]
```



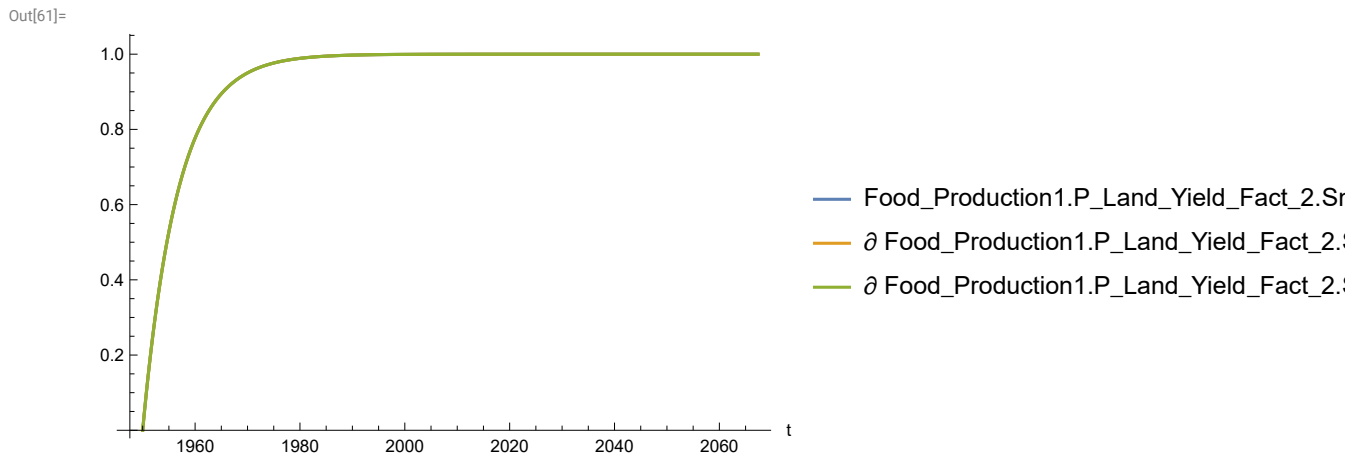
```
In[59]:= SystemModelPlot[simsensdata,
  {"Food_Production1.P_Land_Yield_Fact_2.Smooth1.Integrator1.y",
   "Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[5]", percentvar}]
```



```
In[60]:= SystemModelPlot[simsensdata,
  {"Food_Production1.P_Land_Yield_Fact_2.Smooth1.Integrator1.y",
   "Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[6]", percentvar}]
```

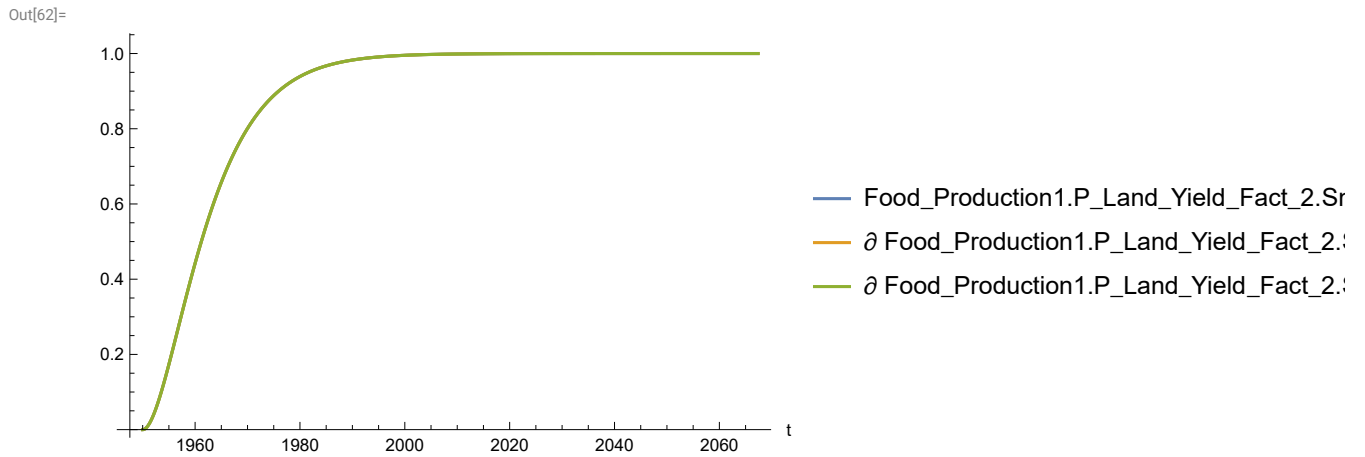


```
In[61]:= SystemModelPlot[simsensdata,
  {"Food_Production1.P_Land_Yield_Fact_2.Smooth1.Integrator1.y",
   "Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[7]", percentvar}]
```

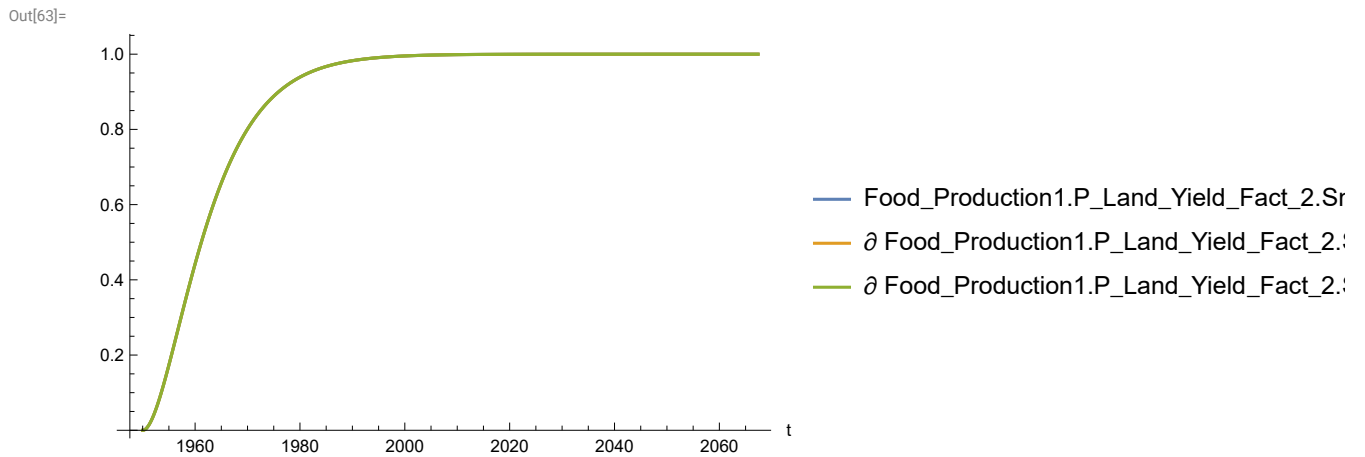


Plot the sensitivity of Food_Production1.P_Land_Yield_Fact_2.Smooth2.Integrator1.y to Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals.

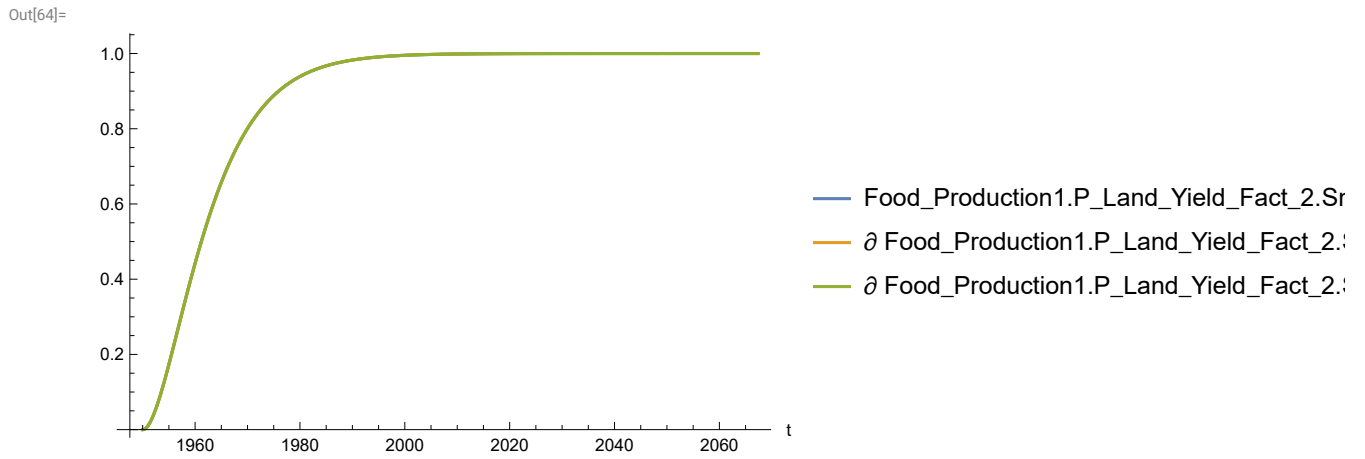
```
In[62]:= SystemModelPlot[simsensdata,
  {"Food_Production1.P_Land_Yield_Fact_2.Smooth2.Integrator1.y",
   "Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[1]", percentvar}]
```



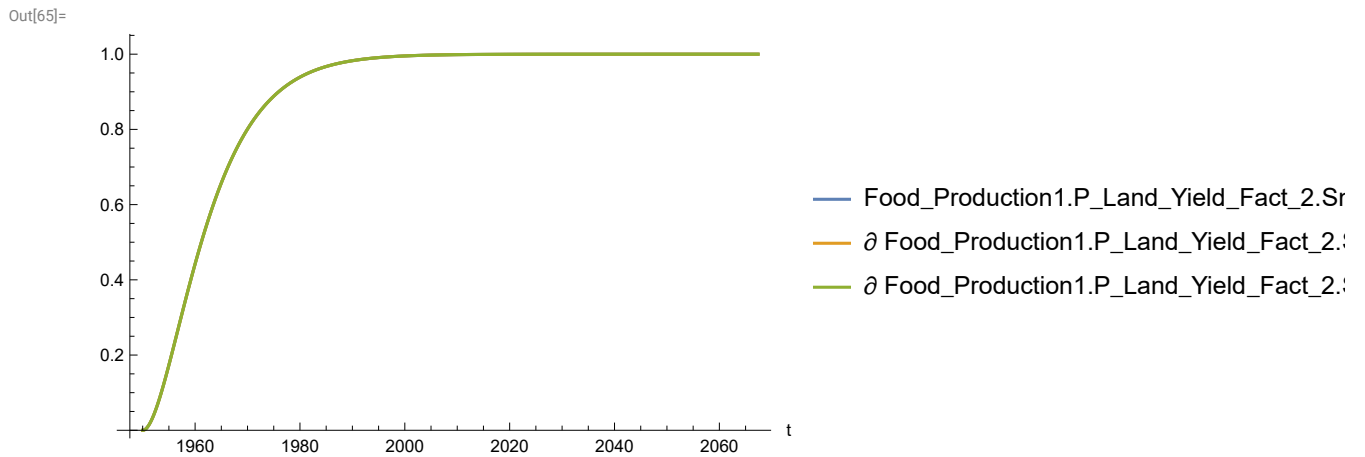
```
In[63]:= SystemModelPlot[simsensdata,
  {"Food_Production1.P_Land_Yield_Fact_2.Smooth2.Integrator1.y",
   "Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[2]", percentvar}]
```



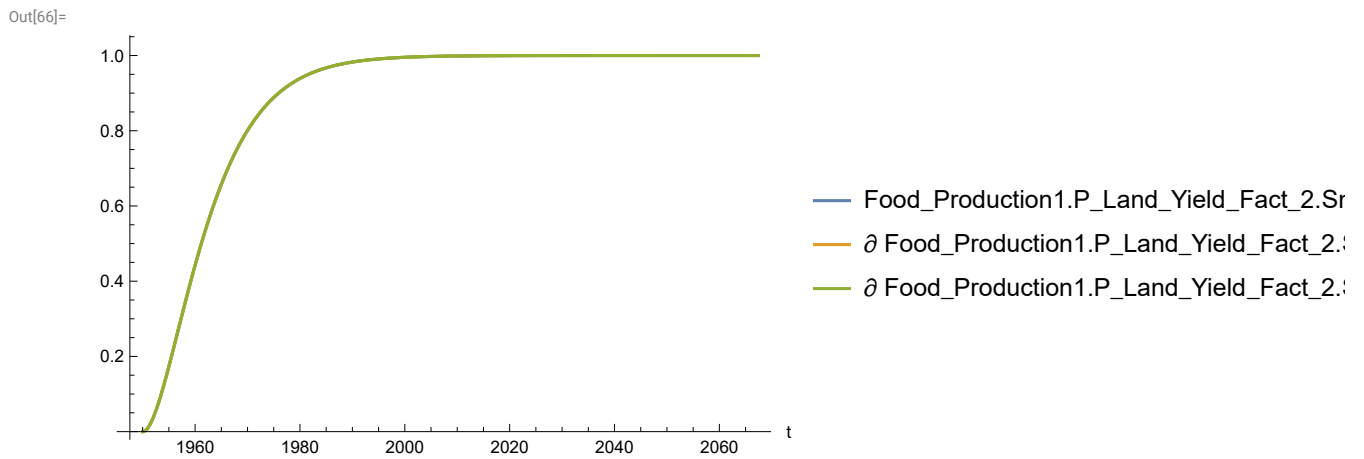
```
In[64]:= SystemModelPlot[simsensdata,
  {"Food_Production1.P_Land_Yield_Fact_2.Smooth2.Integrator1.y",
   "Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[3]", percentvar}]
```



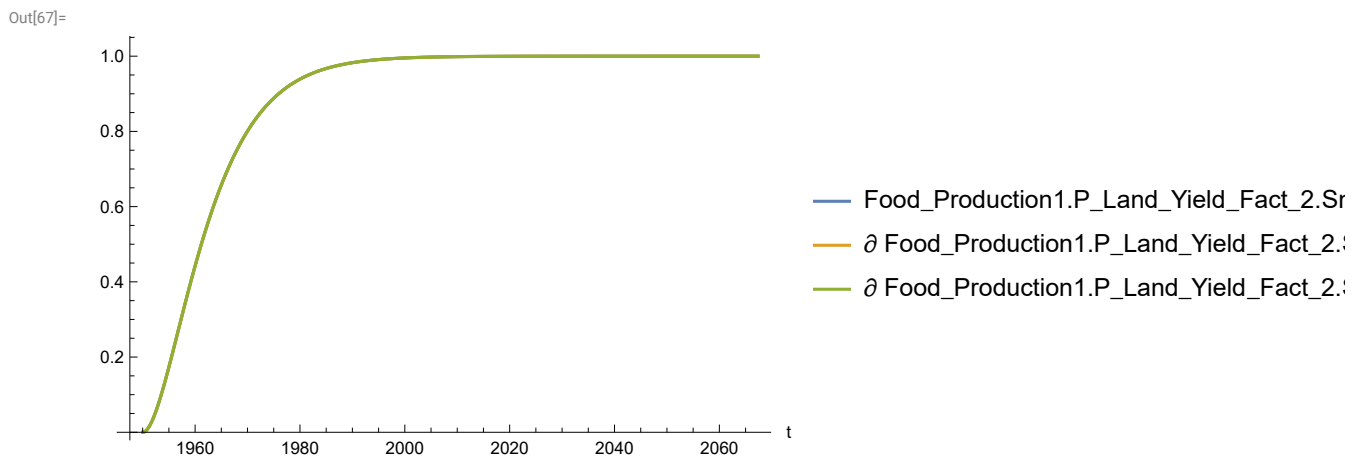
```
In[65]:= SystemModelPlot[simsensdata,
  {"Food_Production1.P_Land_Yield_Fact_2.Smooth2.Integrator1.y",
   "Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[4]", percentvar}]
```



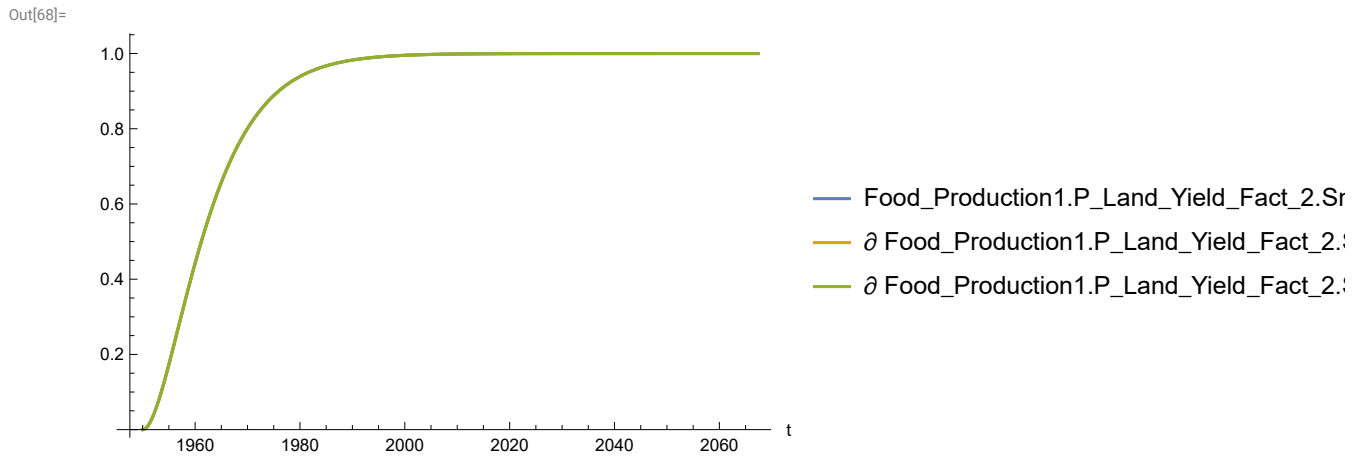
```
In[66]:= SystemModelPlot[simsensdata,
  {"Food_Production1.P_Land_Yield_Fact_2.Smooth2.Integrator1.y",
   "Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[5]", percentvar}]
```



```
In[67]:= SystemModelPlot[simsensdata,
  {"Food_Production1.P_Land_Yield_Fact_2.Smooth2.Integrator1.y",
   "Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[6]", percentvar}]
```

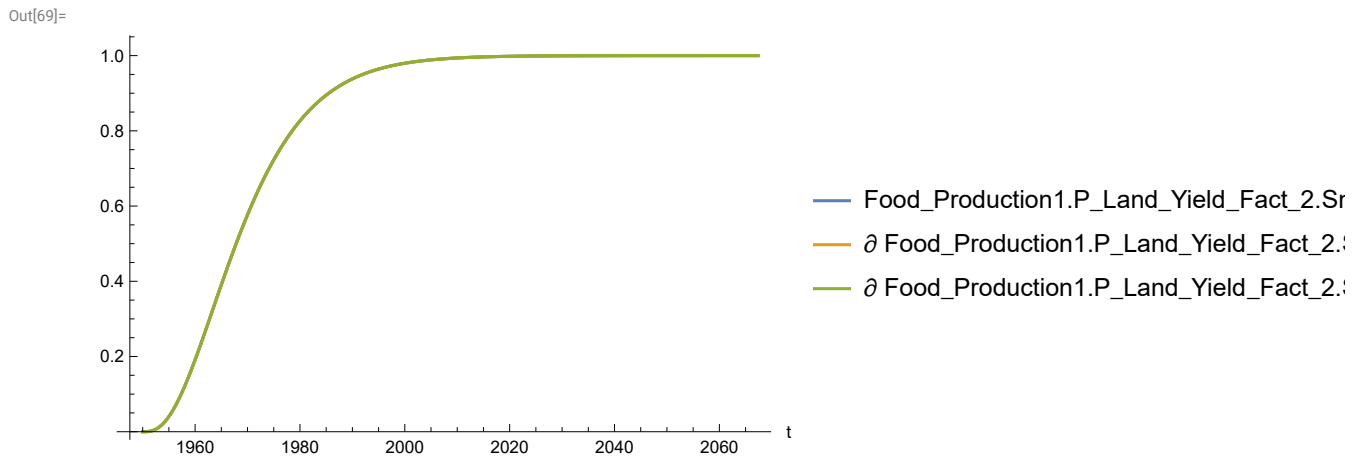


```
In[68]:= SystemModelPlot[simsensdata,
  {"Food_Production1.P_Land_Yield_Fact_2.Smooth2.Integrator1.y",
   "Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[7]", percentvar}]
```

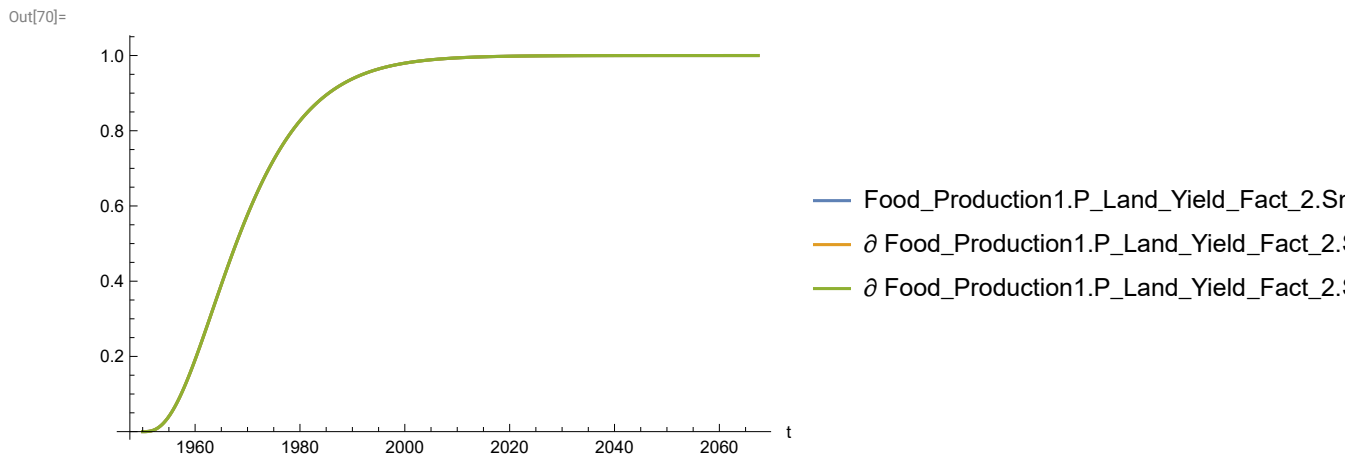


Plot sensitivity of **Food_Production1.P_Land_Yield_Fact_2.Smooth3.Integrator1.y** to Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals

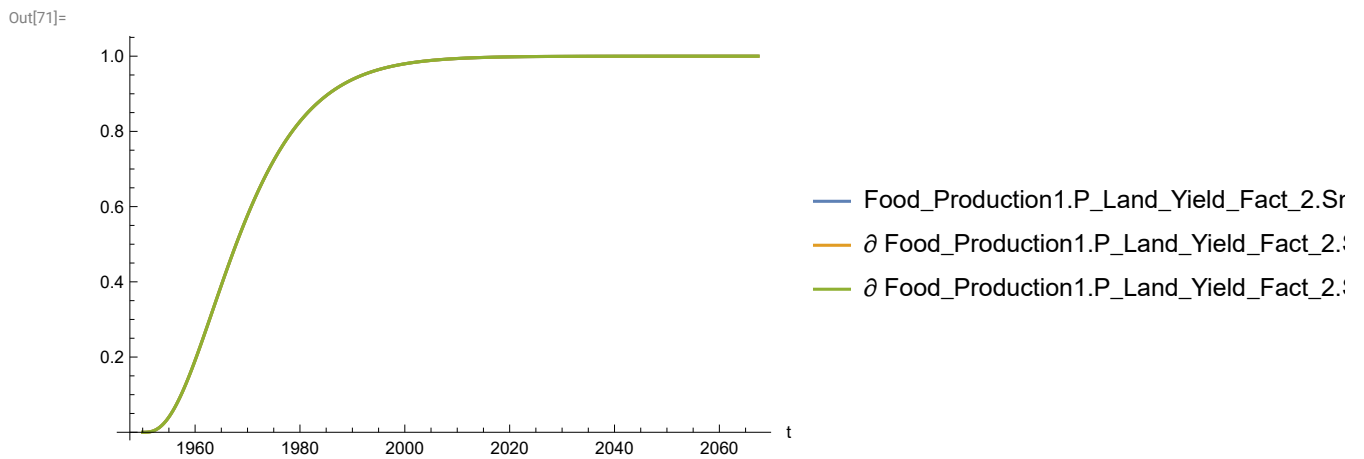
```
In[69]:= SystemModelPlot[simsensdata,
  {"Food_Production1.P_Land_Yield_Fact_2.Smooth3.Integrator1.y",
   "Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[1]", percentvar}]
```



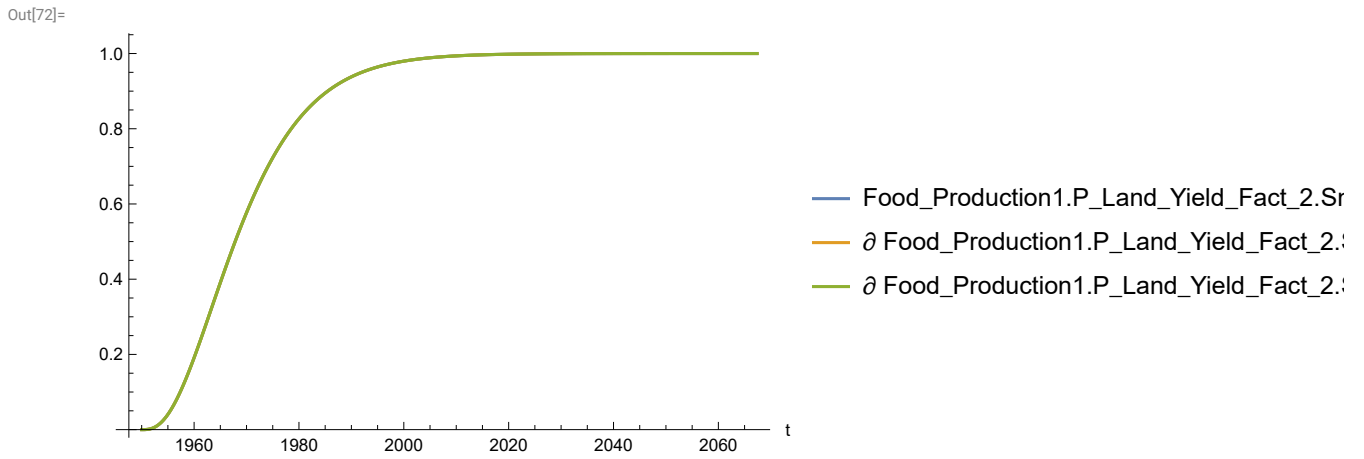

```
In[70]:= SystemModelPlot[simsensdata,
  {"Food_Production1.P_Land_Yield_Fact_2.Smooth3.Integrator1.y",
   "Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[2]", percentvar}]
```



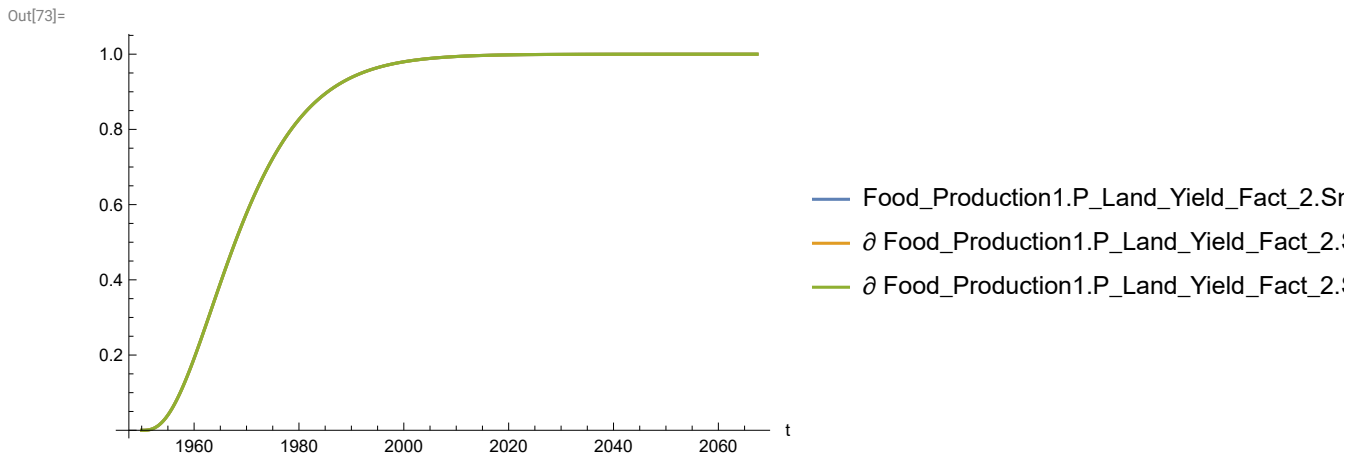
```
In[71]:= SystemModelPlot[simsensdata,
  {"Food_Production1.P_Land_Yield_Fact_2.Smooth3.Integrator1.y",
   "Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[3]", percentvar}]
```



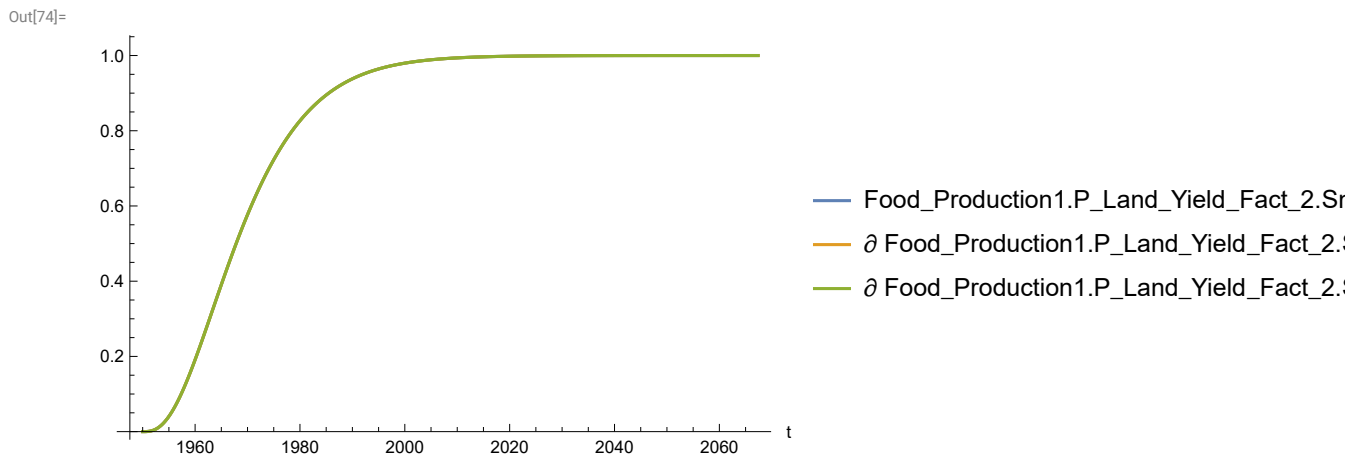
```
In[72]:= SystemModelPlot[simsensdata,
  {"Food_Production1.P_Land_Yield_Fact_2.Smooth3.Integrator1.y",
   "Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[4]", percentvar}]
```



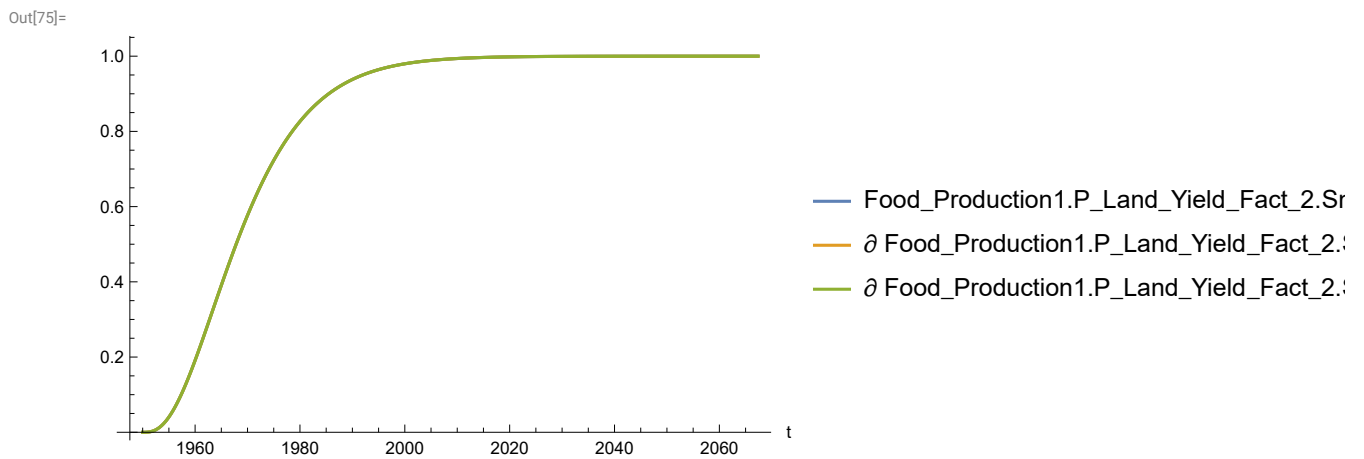
```
In[73]:= SystemModelPlot[simsensdata,
  {"Food_Production1.P_Land_Yield_Fact_2.Smooth3.Integrator1.y",
   "Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[5]", percentvar}]
```



```
In[74]:= SystemModelPlot[simsensdata,
  {"Food_Production1.P_Land_Yield_Fact_2.Smooth3.Integrator1.y",
   "Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[6]", percentvar}]
```



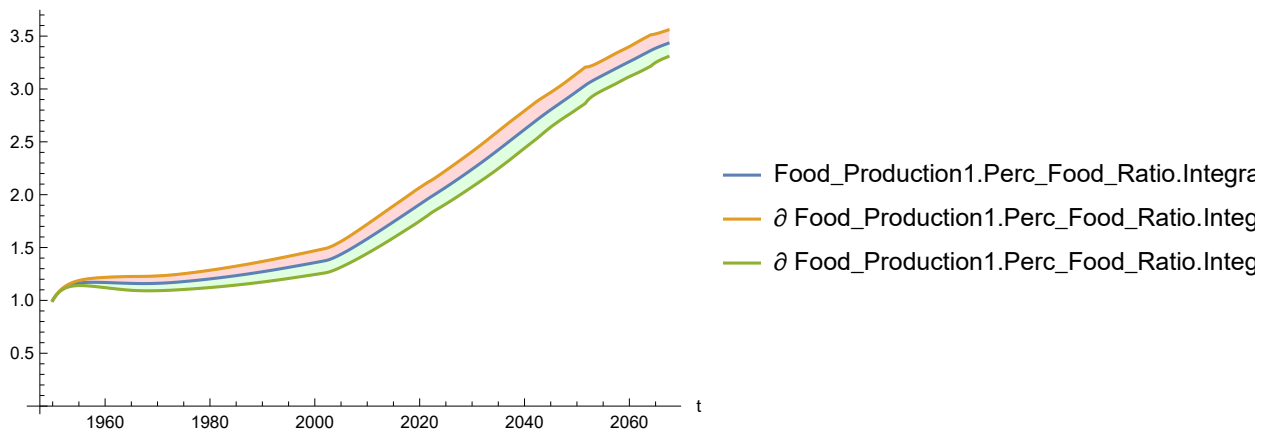
```
In[75]:= SystemModelPlot[simsensdata,
  {"Food_Production1.P_Land_Yield_Fact_2.Smooth3.Integrator1.y",
   "Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[7]", percentvar}]
```



Plot sensitivity of **Food_Production1.Perc_Food_Ratio.Integrator1.y** to **Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals**

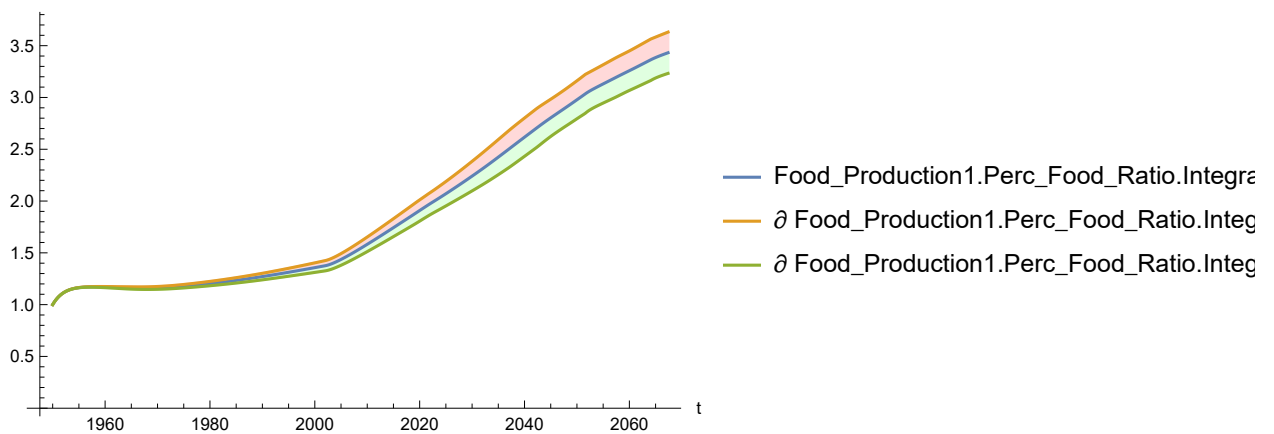
```
In[76]:= SystemModelPlot[simsensdata, {"Food_Production1.Perc_Food_Ratio.Integrator1.y",
"Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[1]", percentvar}]
```

Out[76]=



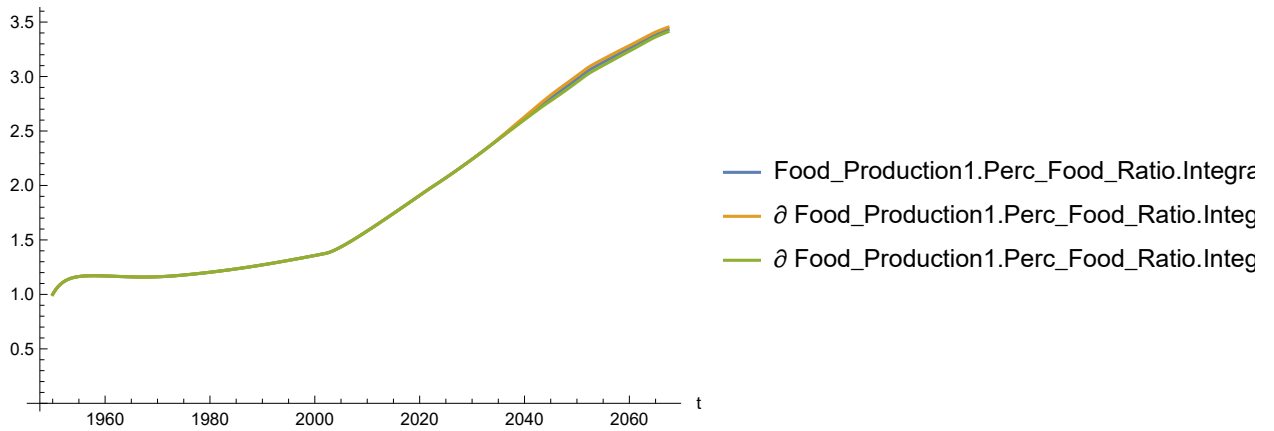
```
In[77]:= SystemModelPlot[simsensdata, {"Food_Production1.Perc_Food_Ratio.Integrator1.y",
"Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[2]", percentvar}]
```

Out[77]=



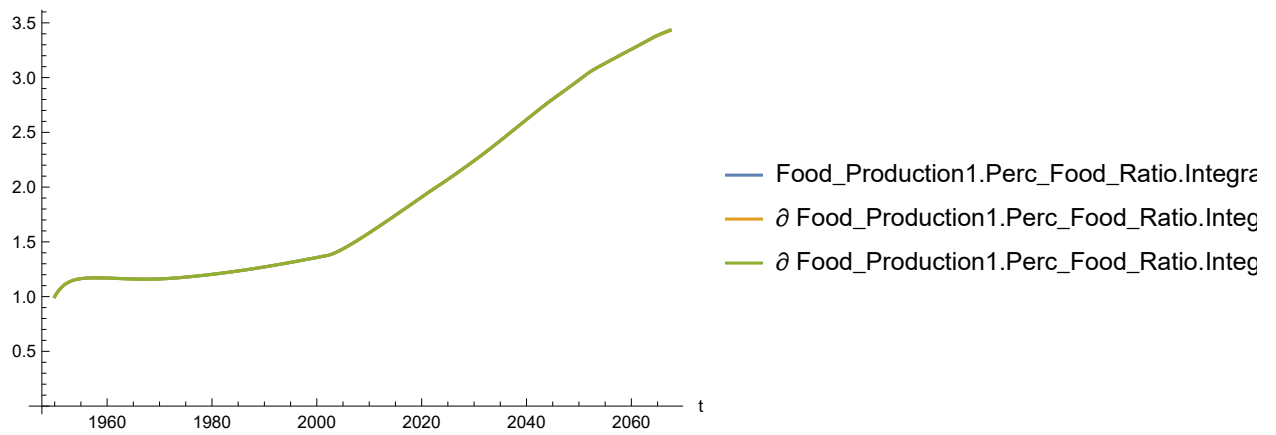
```
In[78]:= SystemModelPlot[simsensdata, {"Food_Production1.Perc_Food_Ratio.Integrator1.y",
"Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[3]", percentvar}]
```

Out[78]=



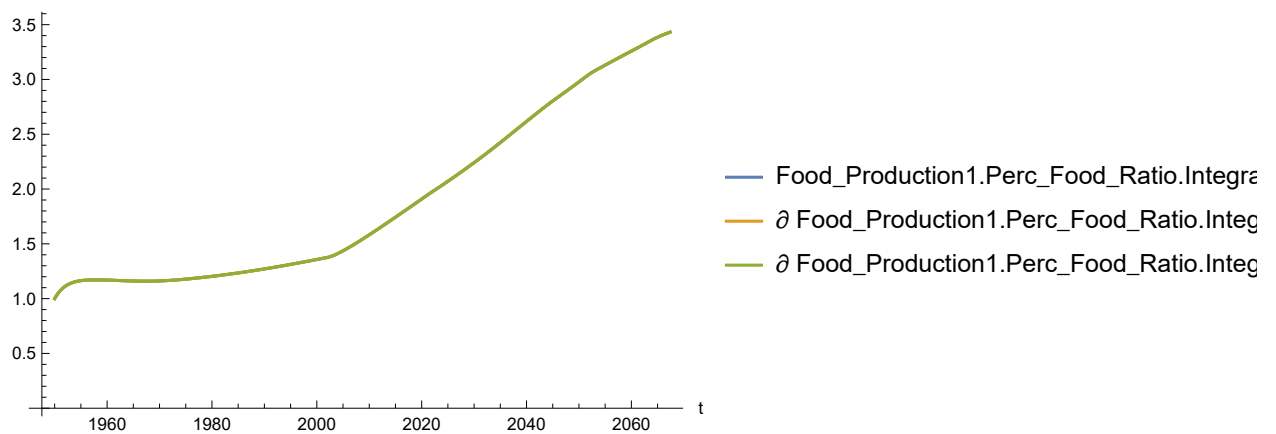
```
In[79]:= SystemModelPlot[simsensdata, {"Food_Production1.Perc_Food_Ratio.Integrator1.y",
"Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[4]", percentvar}]
```

Out[79]=



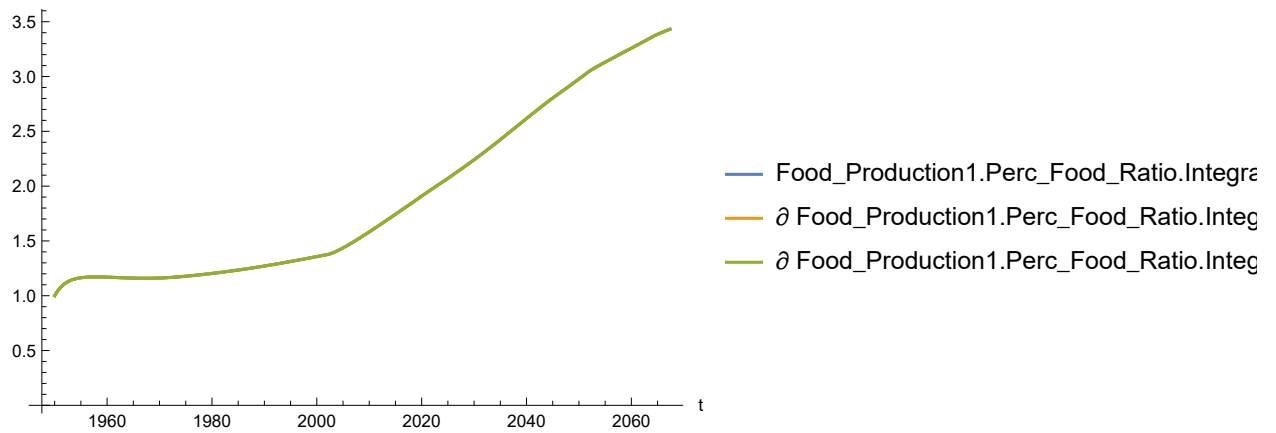
```
In[80]:= SystemModelPlot[simsensdata, {"Food_Production1.Perc_Food_Ratio.Integrator1.y",
"Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[5]", percentvar}]
```

Out[80]=



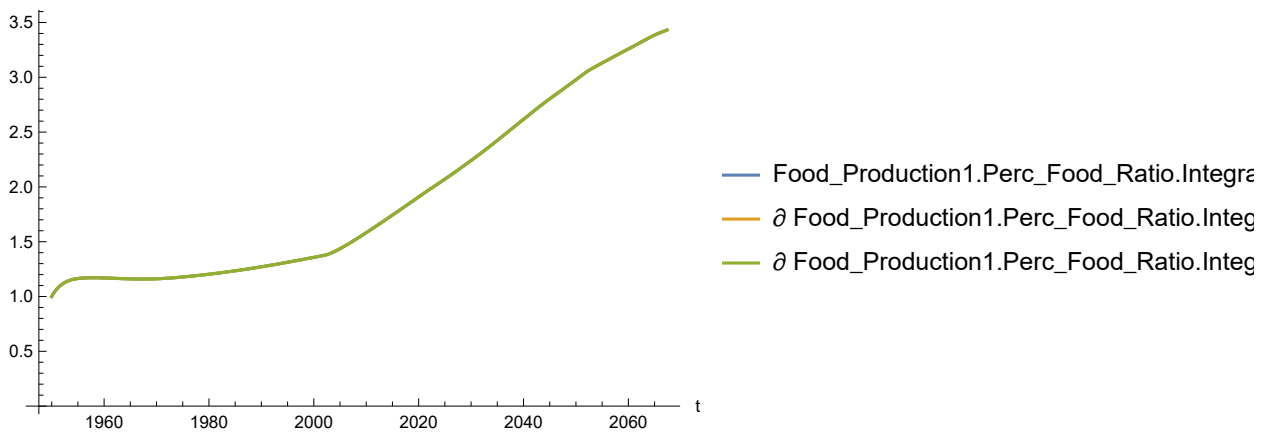
```
In[81]:= SystemModelPlot[simsensdata, {"Food_Production1.Perc_Food_Ratio.Integrator1.y",
"Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[6]", percentvar}]
```

Out[81]=



```
In[82]:= SystemModelPlot[simsensdata, {"Food_Production1.Perc_Food_Ratio.Integrator1.y",
"Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[7]", percentvar}]
```

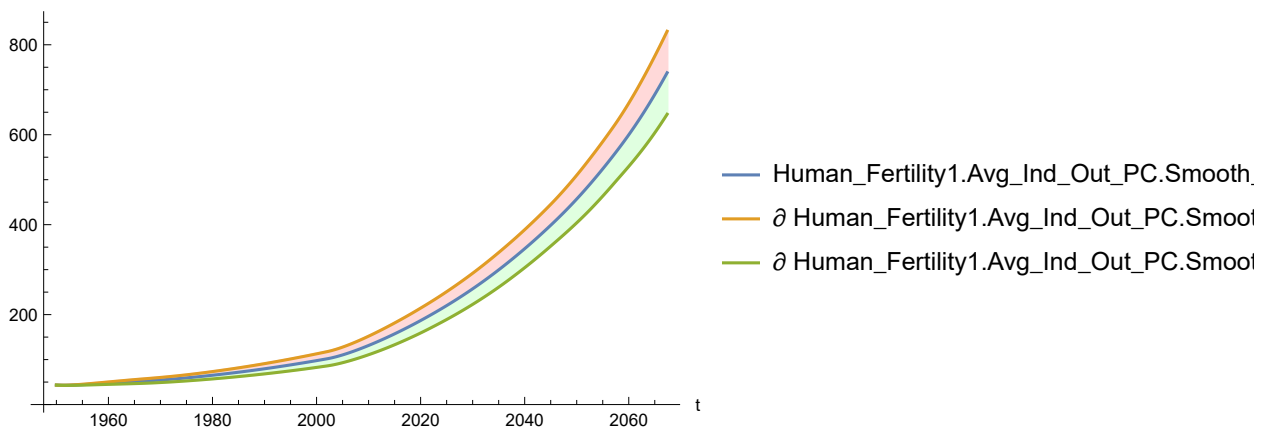
Out[82]=



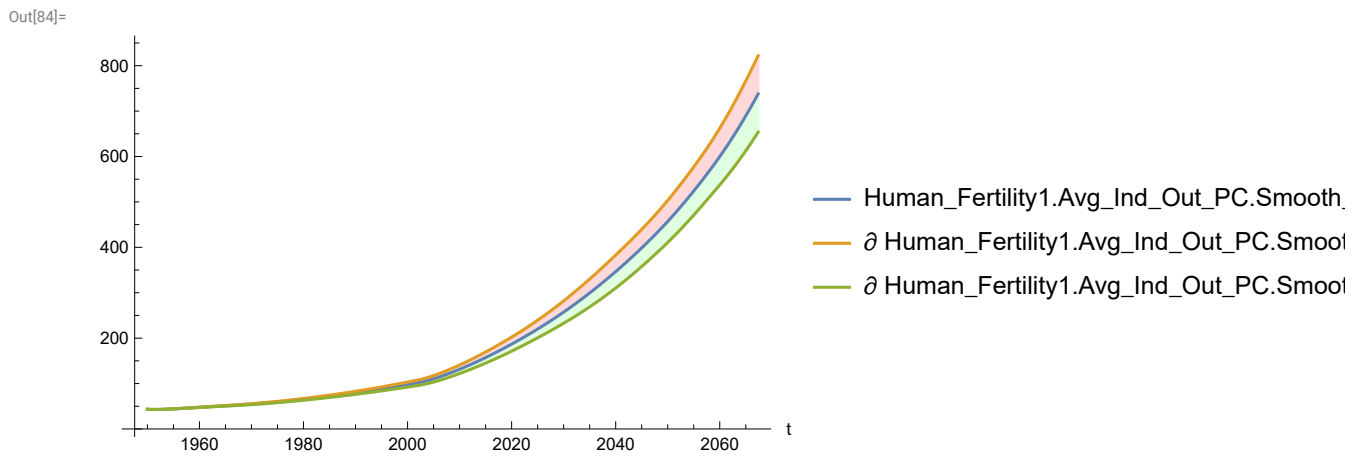
Plot the sensitivity of `Human_Fertility1.Avg_Ind_Out_PC.Smooth_of_Input.Integrator1.y` to `Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals`.

```
In[83]:= SystemModelPlot[simsensdata,
{"Human_Fertility1.Avg_Ind_Out_PC.Smooth_of_Input.Integrator1.y",
"Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[1]", percentvar}]
```

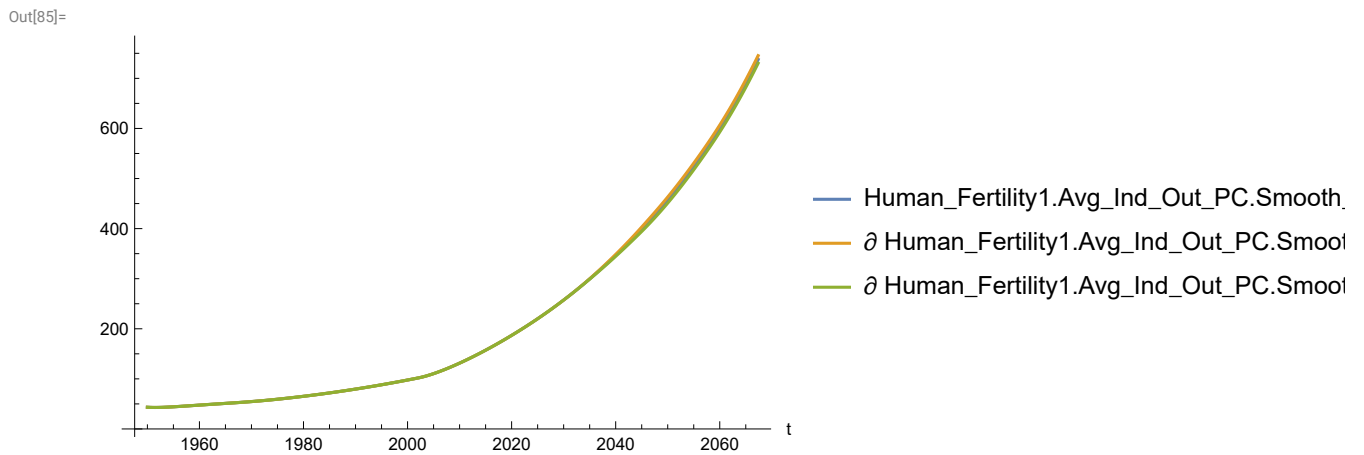
Out[83]=



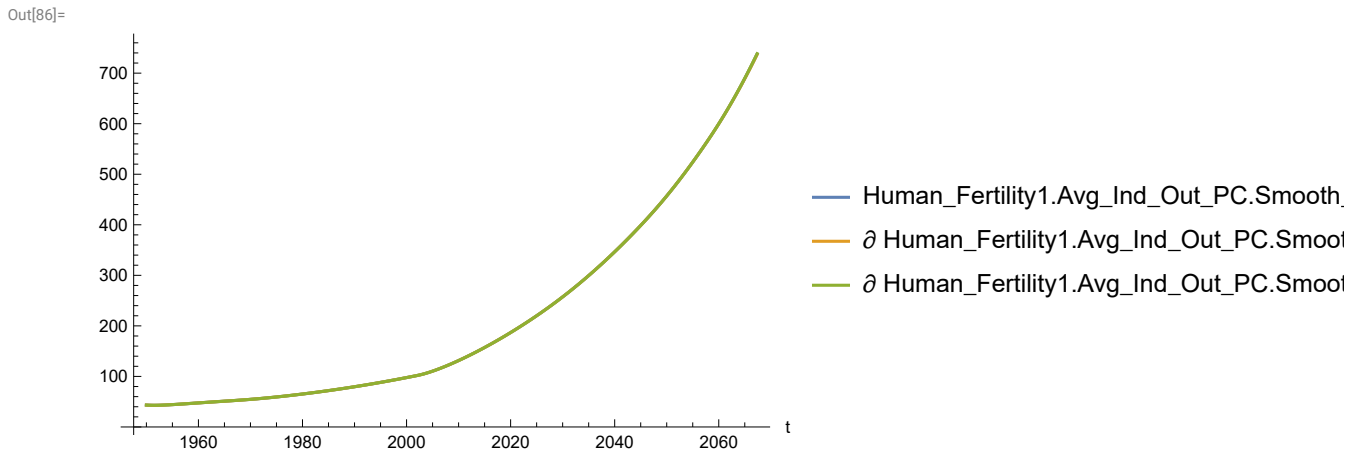
```
In[84]:= SystemModelPlot[simsensdata,
  {"Human_Fertility1.Avg_Ind_Out_PC.Smooth_of_Input.Integrator1.y",
   "Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[2]", percentvar}]
```



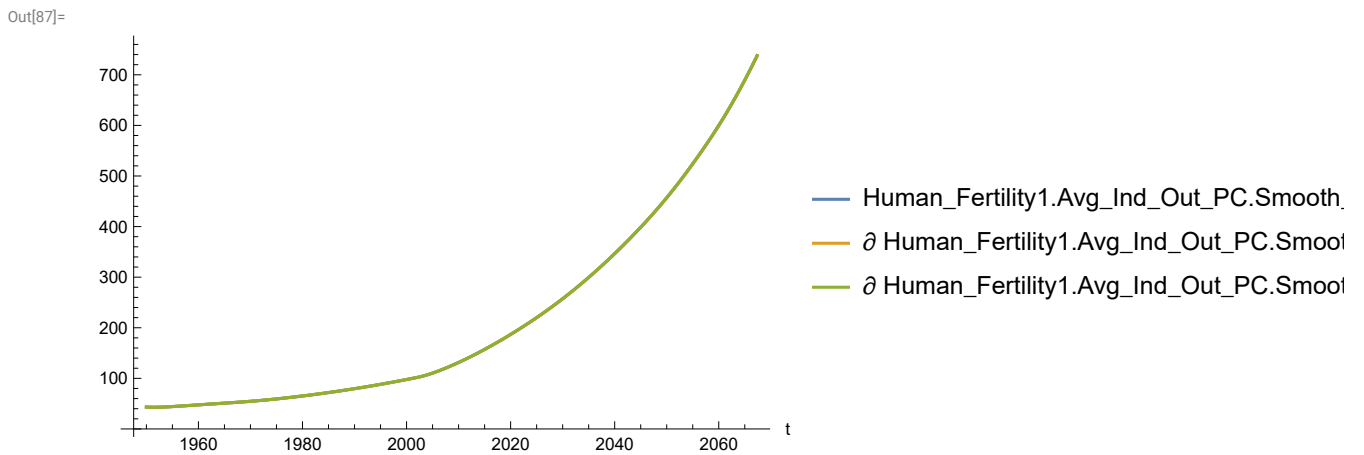
```
In[85]:= SystemModelPlot[simsensdata,
  {"Human_Fertility1.Avg_Ind_Out_PC.Smooth_of_Input.Integrator1.y",
   "Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[3]", percentvar}]
```



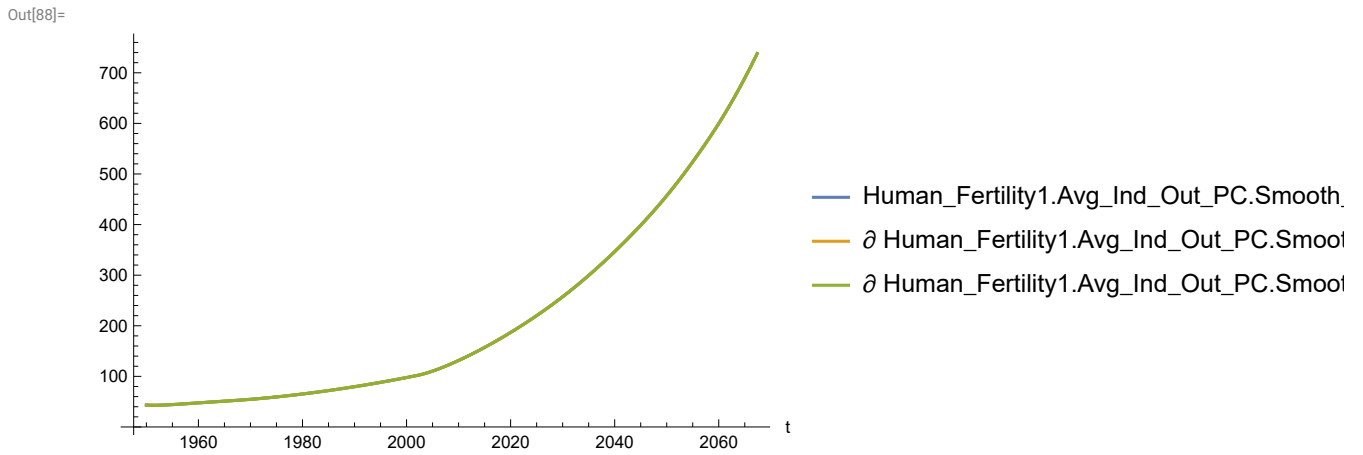
```
In[86]:= SystemModelPlot[simsensdata,
  {"Human_Fertility1.Avg_Ind_Out_PC.Smooth_of_Input.Integrator1.y",
   "Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[4]", percentvar}]
```



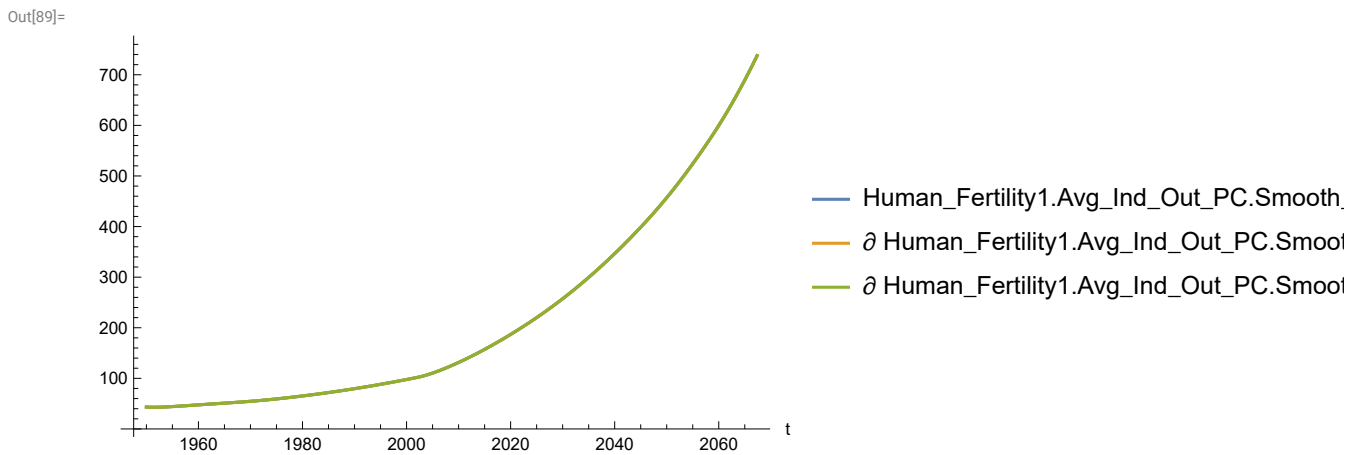
```
In[87]:= SystemModelPlot[simsensdata,
  {"Human_Fertility1.Avg_Ind_Out_PC.Smooth_of_Input.Integrator1.y",
   "Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[5]", percentvar}]
```




```
In[88]:= SystemModelPlot[simsensdata,
  {"Human_Fertility1.Avg_Ind_Out_PC.Smooth_of_Input.Integrator1.y",
   "Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[6]", percentvar}]
```



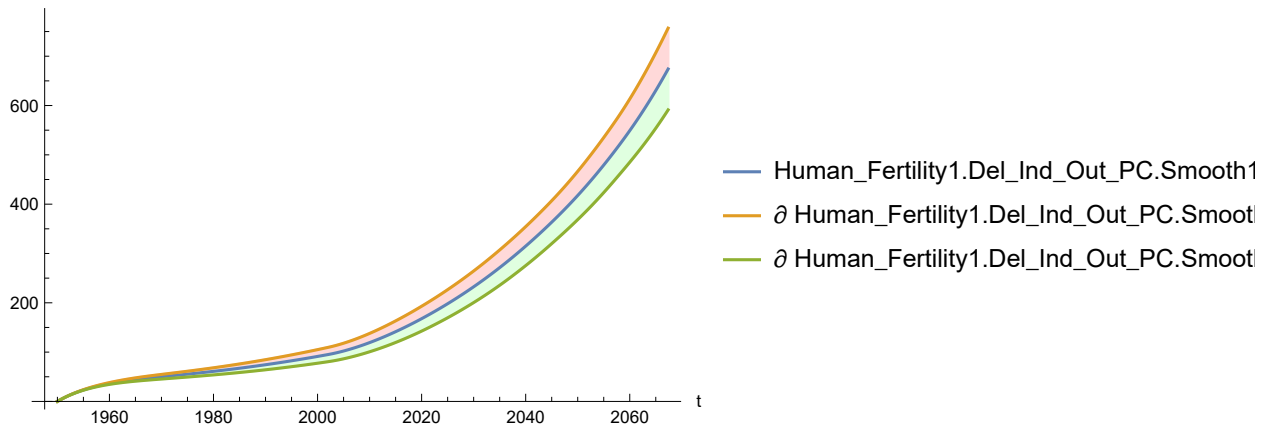
```
In[89]:= SystemModelPlot[simsensdata,
  {"Human_Fertility1.Avg_Ind_Out_PC.Smooth_of_Input.Integrator1.y",
   "Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[7]", percentvar}]
```



Plot the sensitivity of Human_Fertility1.Del_Ind_Out_PC.Smooth1.Integrator1.y to Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals.

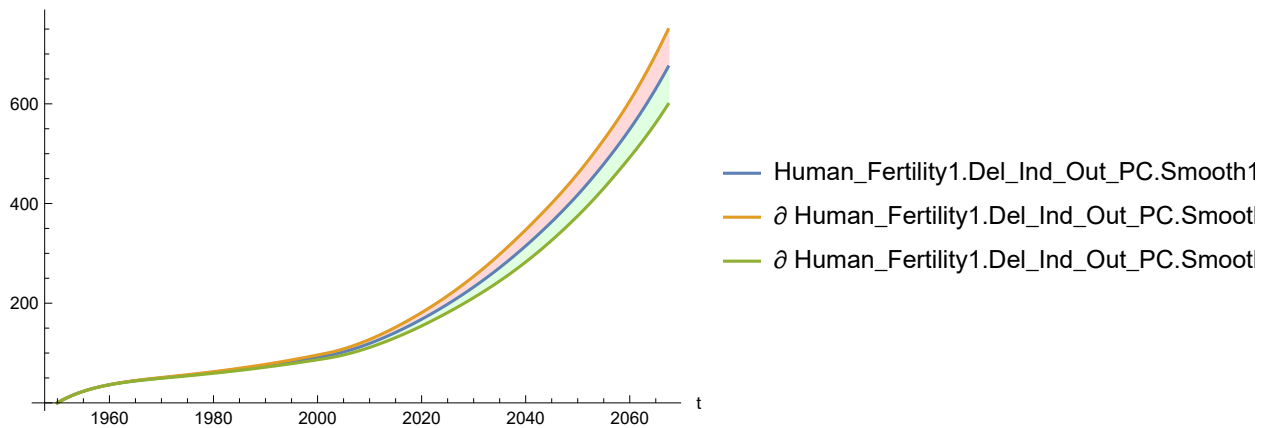
```
In[90]:= SystemModelPlot[simsensdata, {"Human_Fertility1.Del_Ind_Out_PC.Smooth1.Integrator1.y",
"Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[1]", percentvar}]
```

Out[90]=



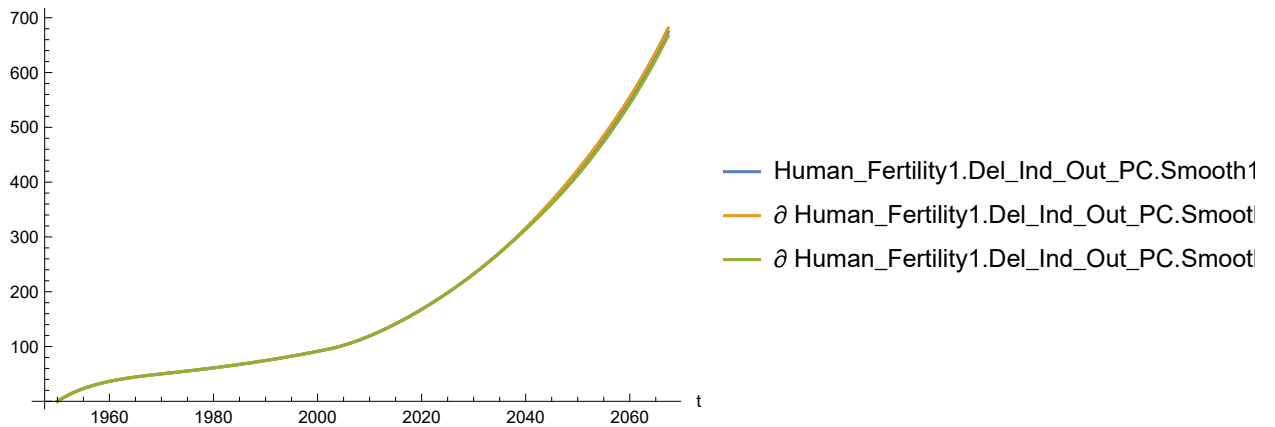
```
In[91]:= SystemModelPlot[simsensdata, {"Human_Fertility1.Del_Ind_Out_PC.Smooth1.Integrator1.y",
"Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[2]", percentvar}]
```

Out[91]=



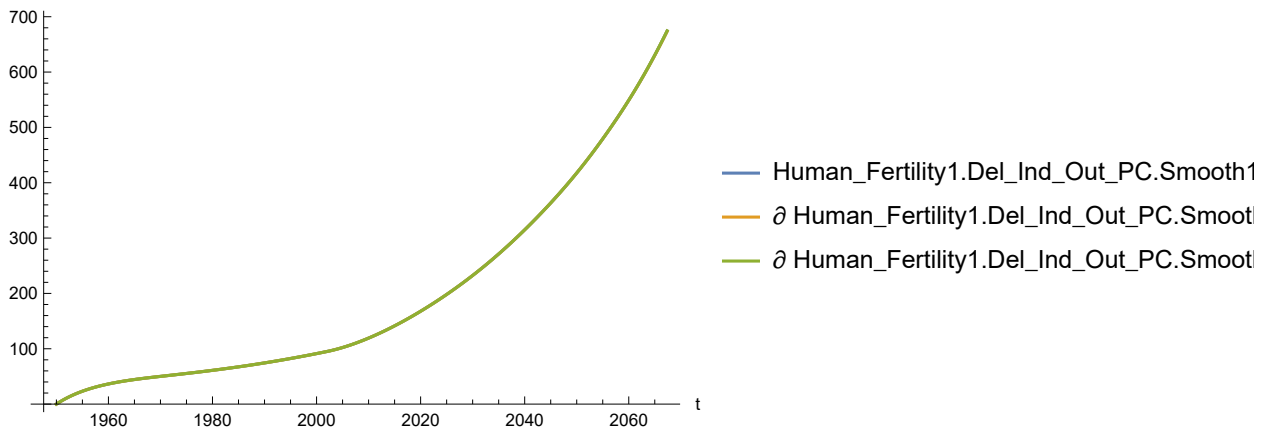
```
In[92]:= SystemModelPlot[simsensdata, {"Human_Fertility1.Del_Ind_Out_PC.Smooth1.Integrator1.y",
"Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[3]", percentvar}]
```

Out[92]=



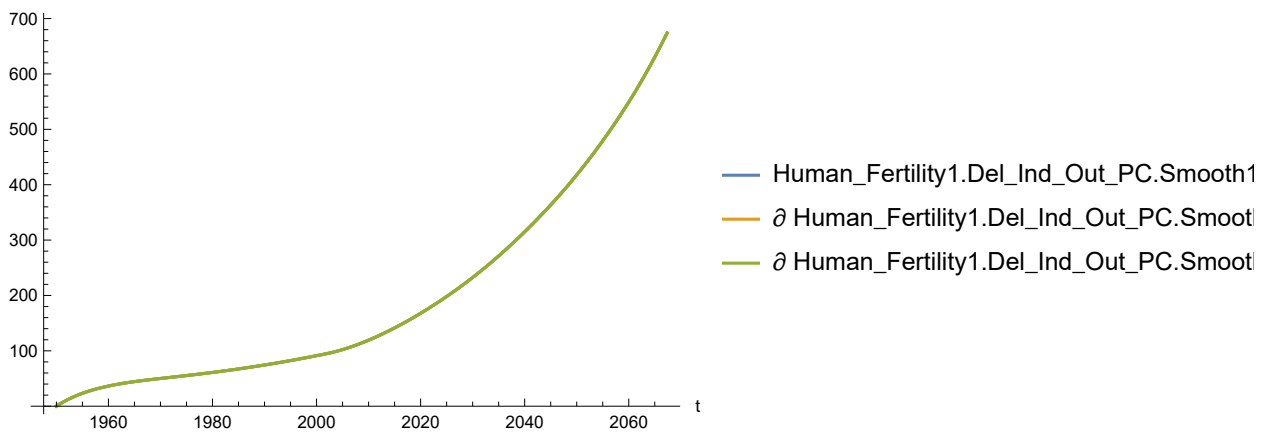
```
In[93]:= SystemModelPlot[simsensdata, {"Human_Fertility1.Del_Ind_Out_PC.Smooth1.Integrator1.y",
"Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[4]", percentvar}]
```

Out[93]=



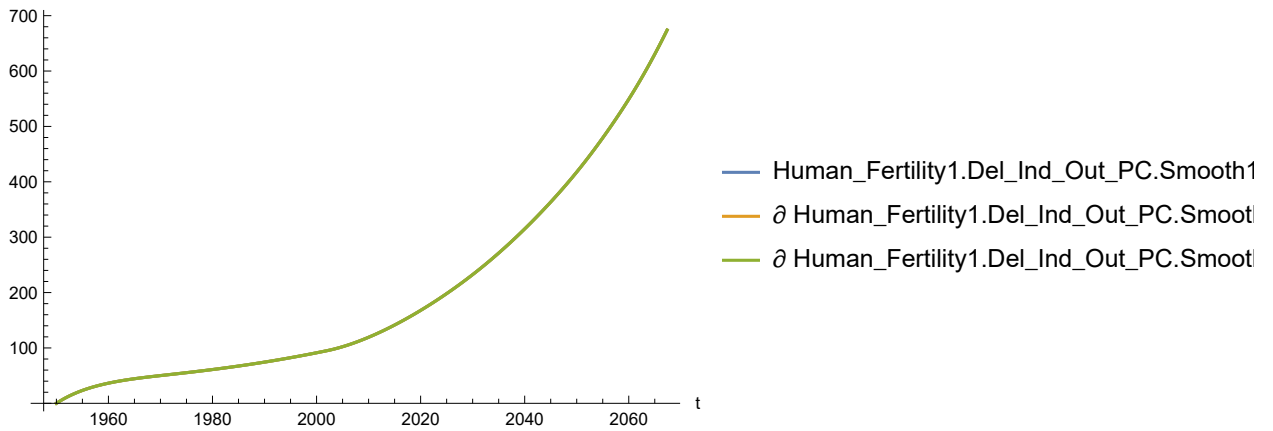
```
In[94]:= SystemModelPlot[simsensdata, {"Human_Fertility1.Del_Ind_Out_PC.Smooth1.Integrator1.y",
"Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[5]", percentvar}]
```

Out[94]=



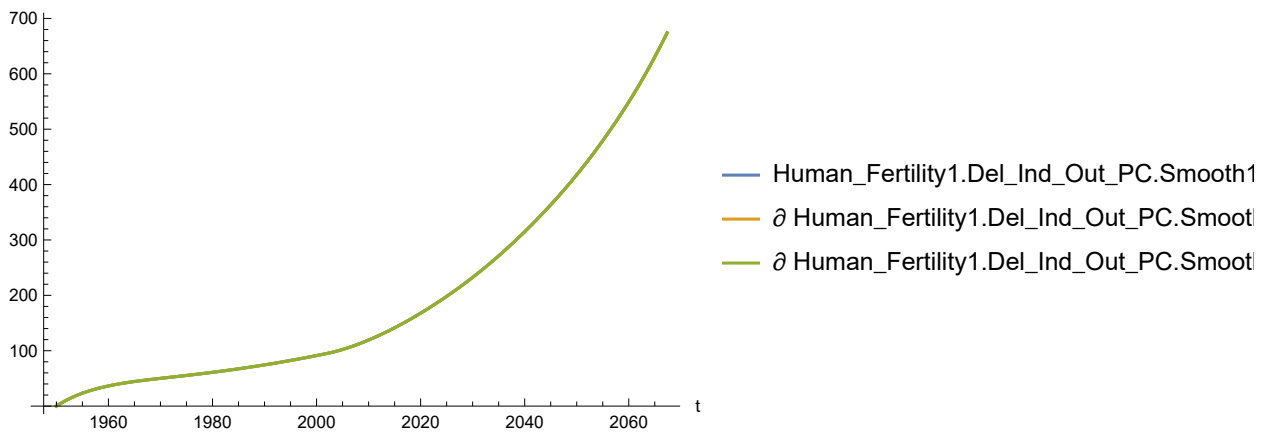
```
In[95]:= SystemModelPlot[simsensdata, {"Human_Fertility1.Del_Ind_Out_PC.Smooth1.Integrator1.y",
"Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[6]", percentvar}]
```

Out[95]=



```
In[96]:= SystemModelPlot[simsensdata, {"Human_Fertility1.Del_Ind_Out_PC.Smooth1.Integrator1.y",
"Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[7]", percentvar}]
```

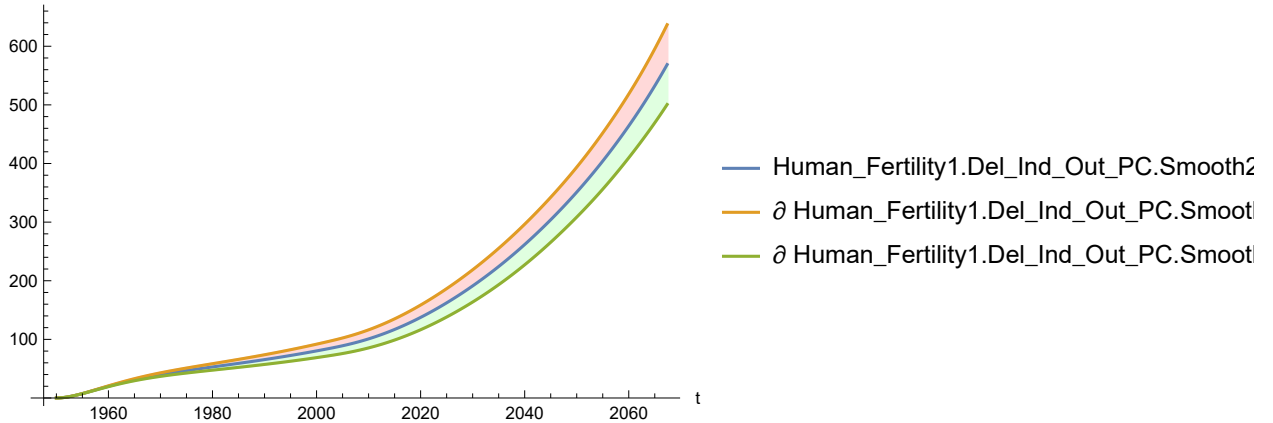
Out[96]=



Plot the sensitivity of `Human_Fertility1.Del_Ind_Out_PC.Smooth2.Integrator1.y` to `Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals`.

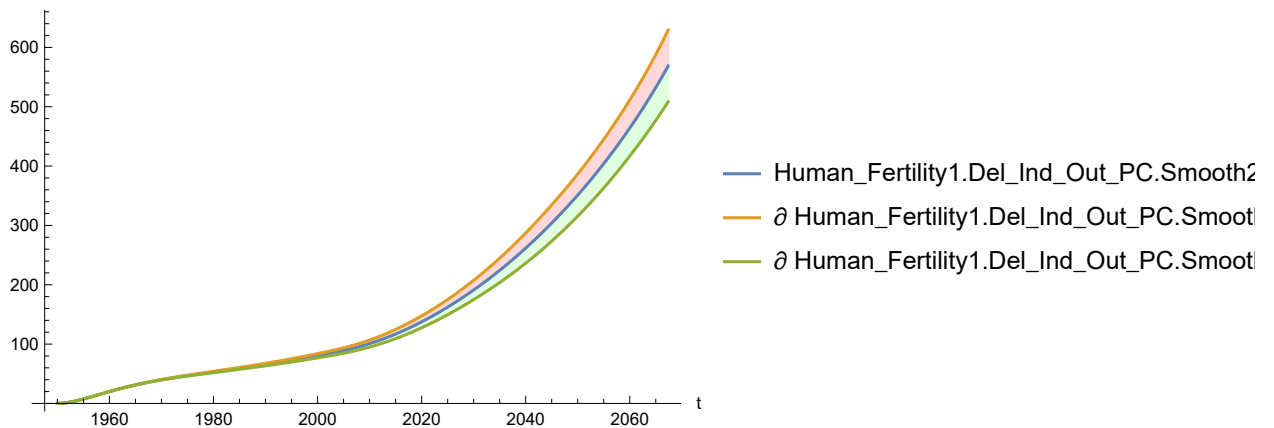
```
In[97]:= SystemModelPlot[simsensdata, {"Human_Fertility1.Del_Ind_Out_PC.Smooth2.Integrator1.y",
"Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[1]", percentvar}]
```

Out[97]=



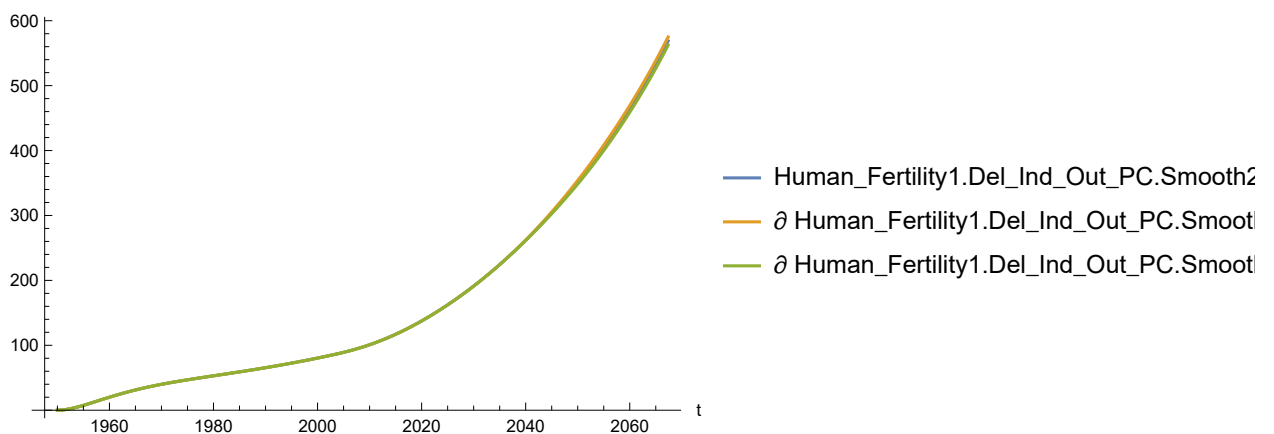
```
In[98]:= SystemModelPlot[simsensdata, {"Human_Fertility1.Del_Ind_Out_PC.Smooth2.Integrator1.y",
"Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[2]", percentvar}]
```

Out[98]=



```
In[99]:= SystemModelPlot[simsensdata, {"Human_Fertility1.Del_Ind_Out_PC.Smooth2.Integrator1.y",
"Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[3]", percentvar}]
```

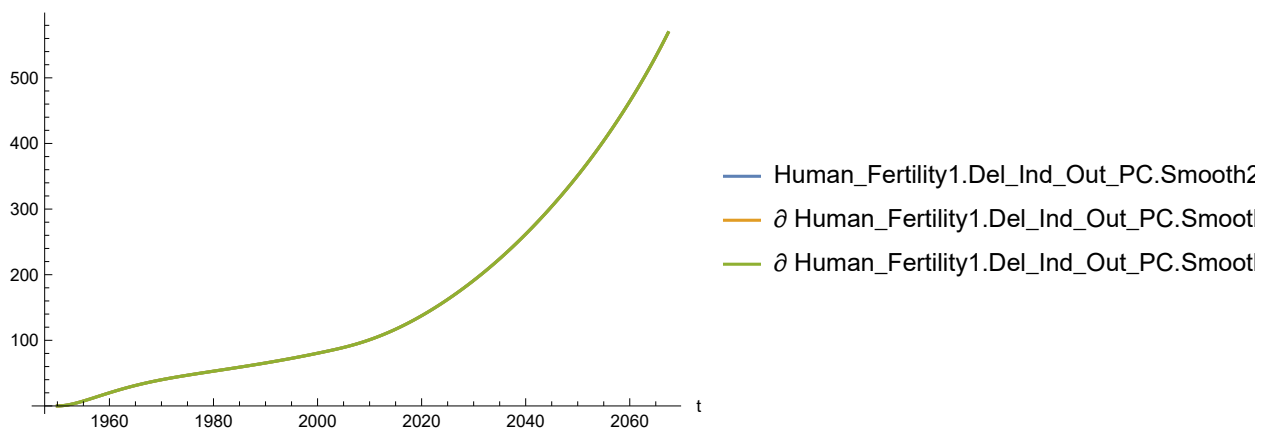
Out[99]=



In[100]=

```
SystemModelPlot[simsensdata, {"Human_Fertility1.Del_Ind_Out_PC.Smooth2.Integrator1.y",
"Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[4]", percentvar}]
```

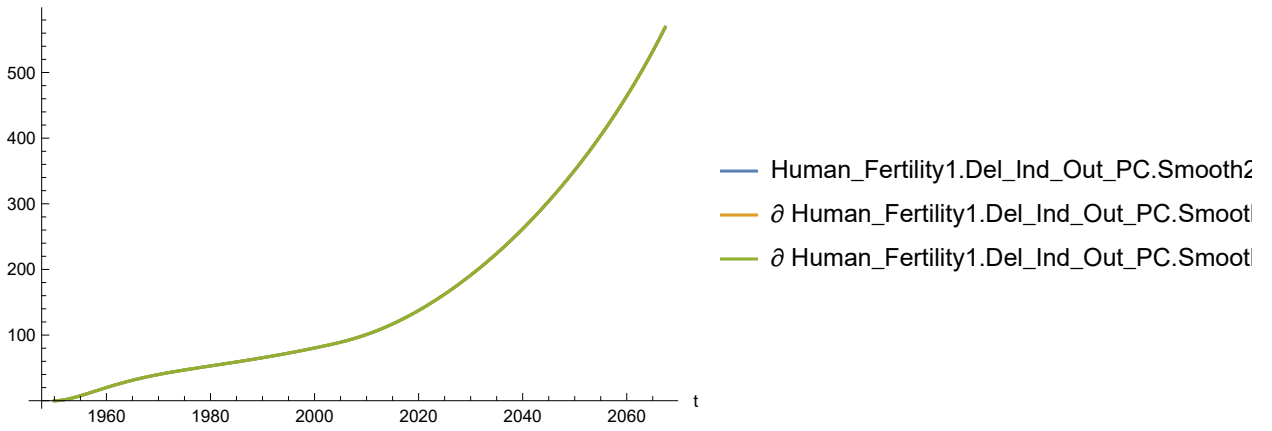
Out[100]=



In[101]:=

```
SystemModelPlot[simsensdata, {"Human_Fertility1.Del_Ind_Out_PC.Smooth2.Integrator1.y",
    "Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[5]", percentvar}]
```

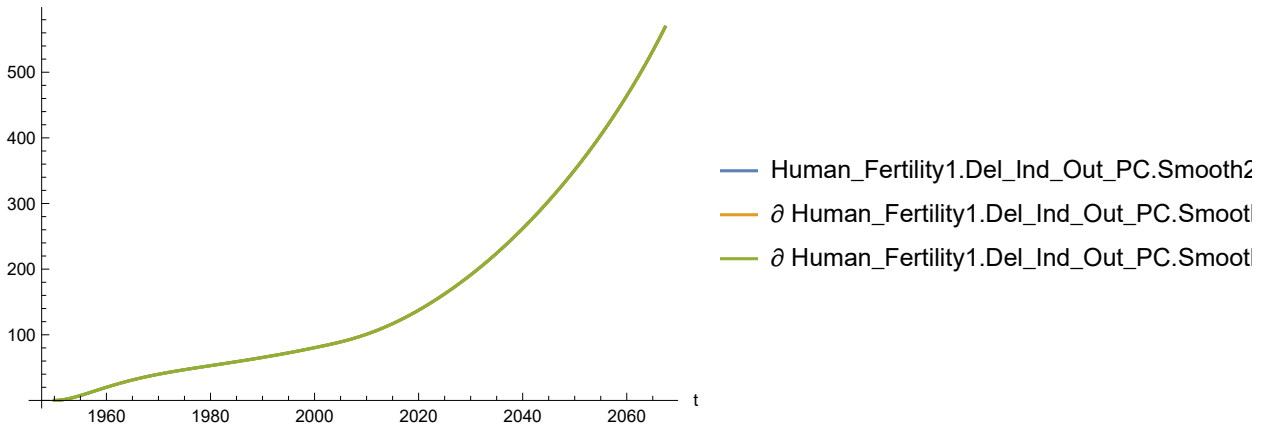
Out[101]=



In[102]:=

```
SystemModelPlot[simsensdata, {"Human_Fertility1.Del_Ind_Out_PC.Smooth2.Integrator1.y",
    "Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[6]", percentvar}]
```

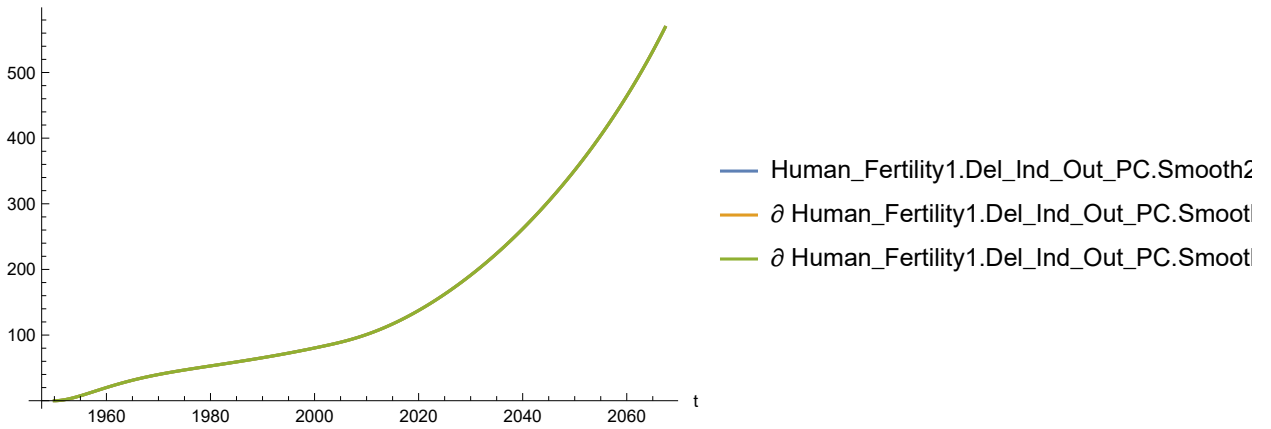
Out[102]=



In[103]:=

```
SystemModelPlot[simsensdata, {"Human_Fertility1.Del_Ind_Out_PC.Smooth2.Integrator1.y",
"Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[7]", percentvar}]
```

Out[103]:=

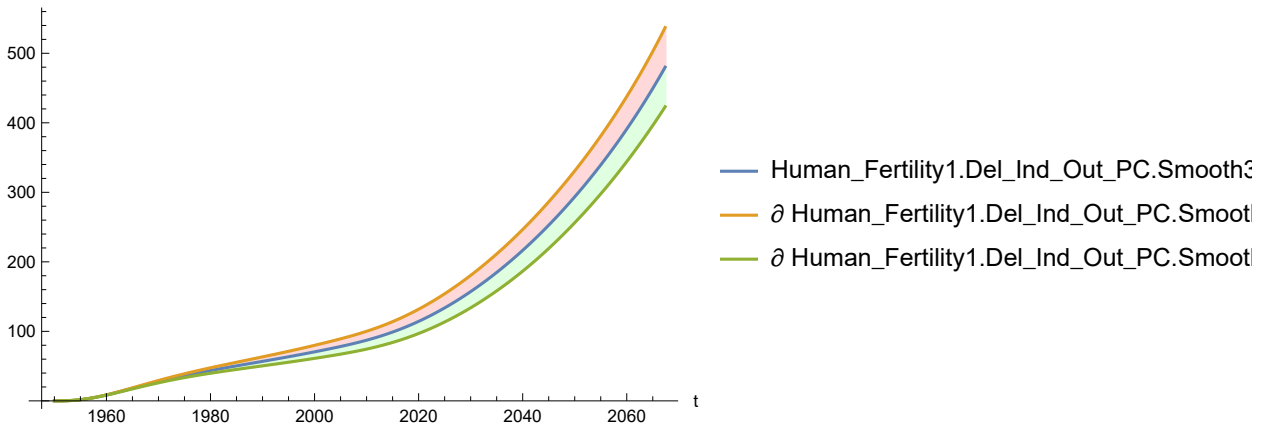


Plot the sensitivity of Human_Fertility1.Del_Ind_Out_PC.Smooth3.Integrator1.y to Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals.

In[104]:=

```
SystemModelPlot[simsensdata, {"Human_Fertility1.Del_Ind_Out_PC.Smooth3.Integrator1.y",
"Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[1]", percentvar}]
```

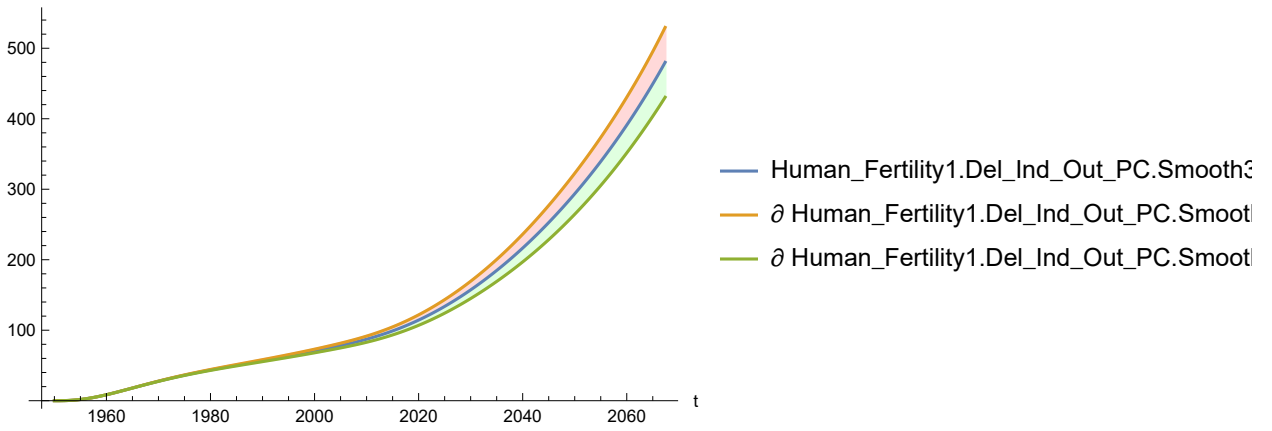
Out[104]:=



In[105]:=

```
SystemModelPlot[simsensdata, {"Human_Fertility1.Del_Ind_Out_PC.Smooth3.Integrator1.y",
"Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[2]", percentvar}]
```

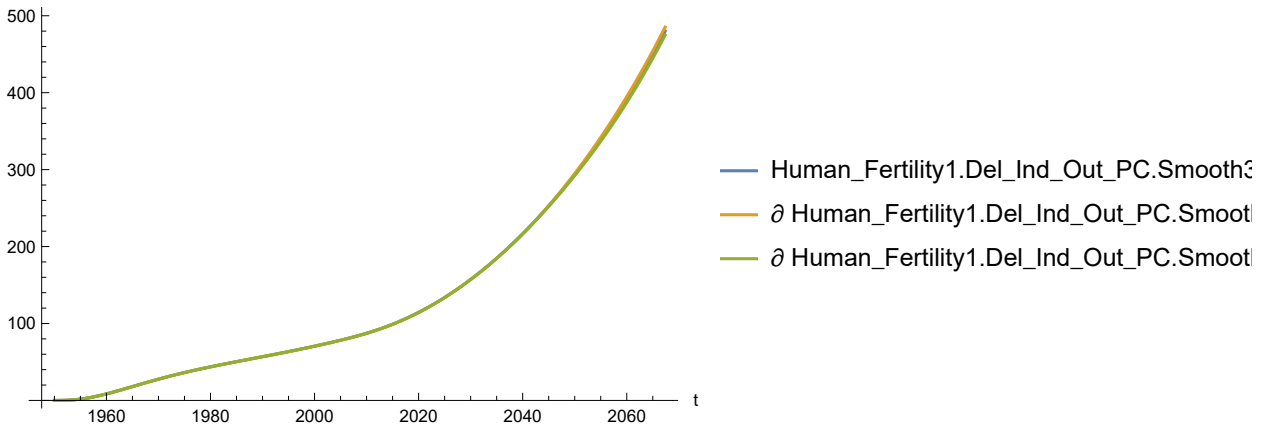
Out[105]=



In[106]:=

```
SystemModelPlot[simsensdata, {"Human_Fertility1.Del_Ind_Out_PC.Smooth3.Integrator1.y",
"Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[3]", percentvar}]
```

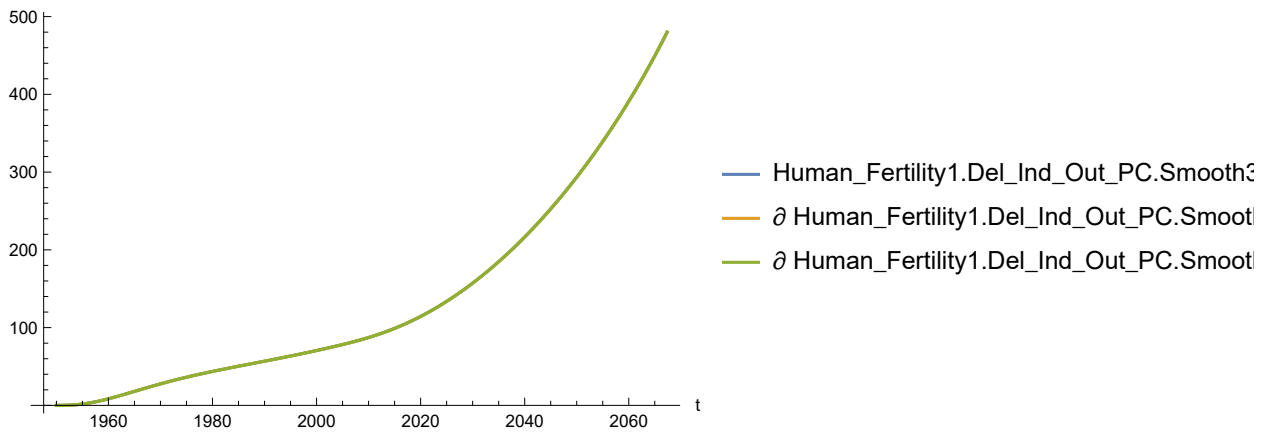
Out[106]=



In[107]:=

```
SystemModelPlot[simsensdata, {"Human_Fertility1.Del_Ind_Out_PC.Smooth3.Integrator1.y",
    "Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[4]", percentvar}]
```

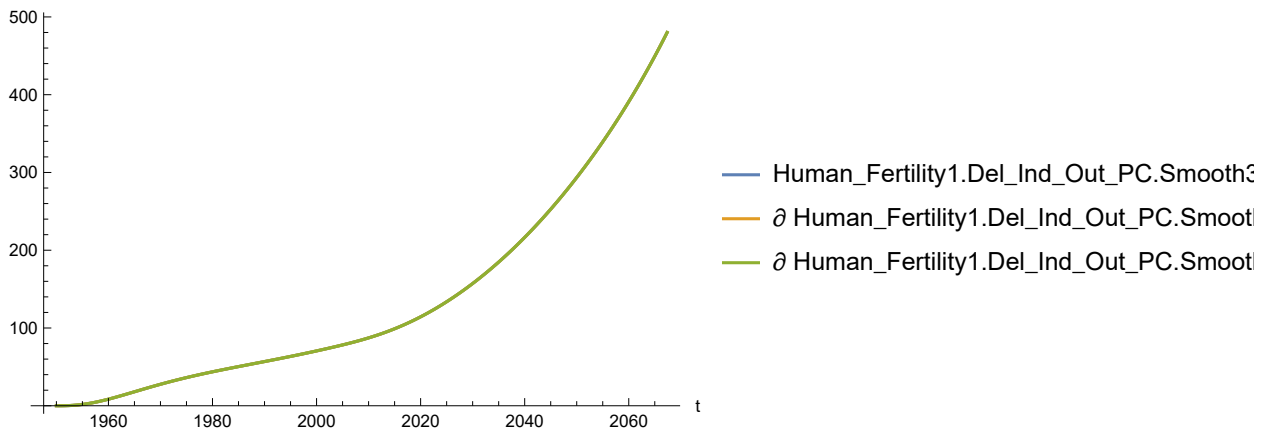
Out[107]=



In[108]:=

```
SystemModelPlot[simsensdata, {"Human_Fertility1.Del_Ind_Out_PC.Smooth3.Integrator1.y",
    "Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[5]", percentvar}]
```

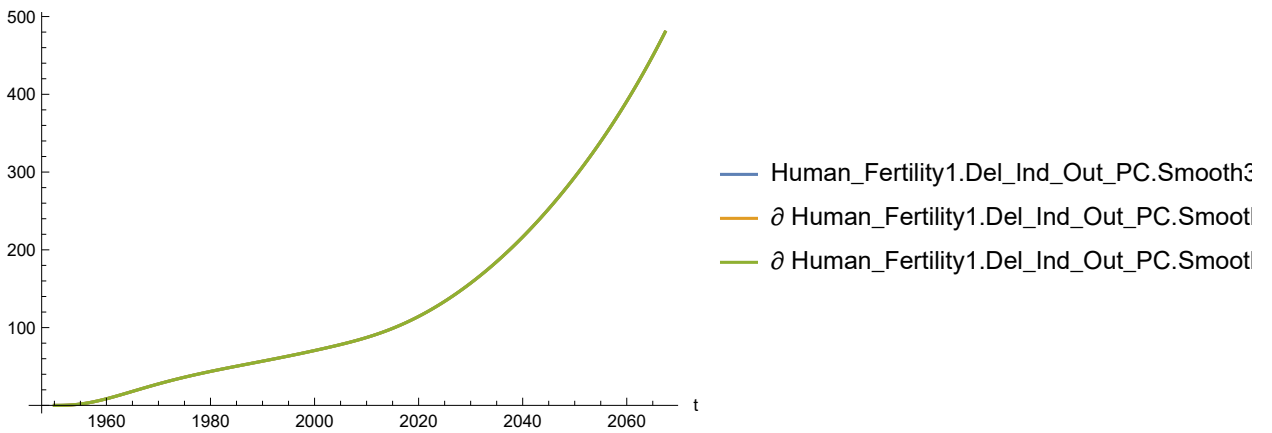
Out[108]=



In[109]:=

```
SystemModelPlot[simsensdata, {"Human_Fertility1.De1_Ind_Out_PC.Smooth3.Integrator1.y",
    "Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[6]", percentvar}]
```

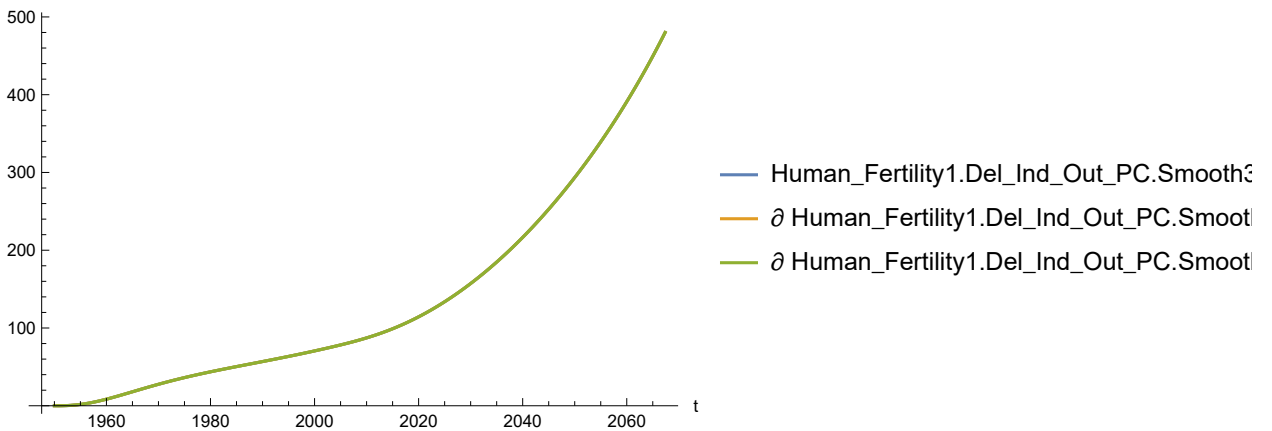
Out[109]=



In[110]:=

```
SystemModelPlot[simsensdata, {"Human_Fertility1.De1_Ind_Out_PC.Smooth3.Integrator1.y",
    "Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[7]", percentvar}]
```

Out[110]=

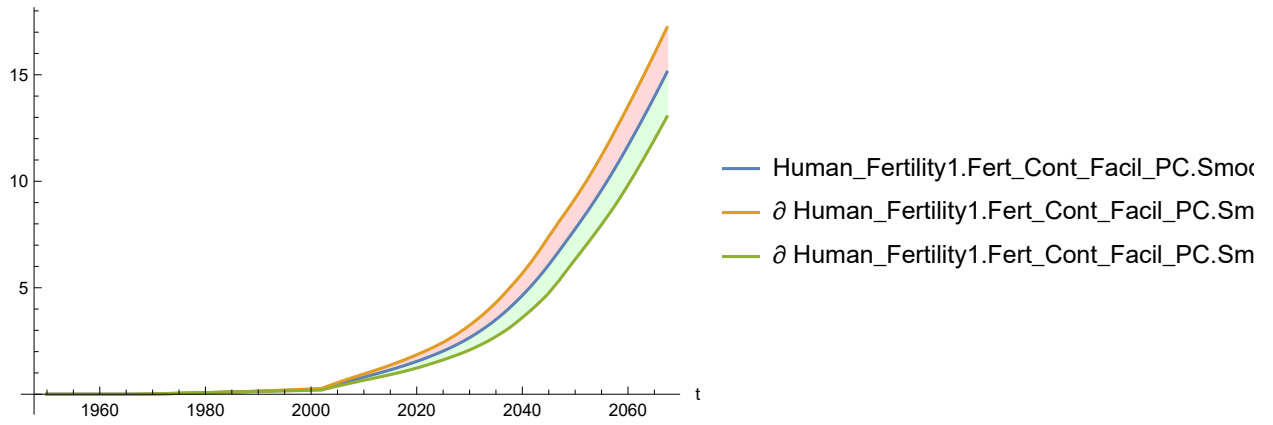


Plot the sensitivity of `Human_Fertility1.Fert_Cont_Facil_PC.Smooth1.Integrator1.y` to `Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals`.

In[111]:=

```
SystemModelPlot[simsensdata,
  {"Human_Fertility1.Fert_Cont_Facil_PC.Smooth1.Integrator1.y",
   "Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[1]", percentvar}]
```

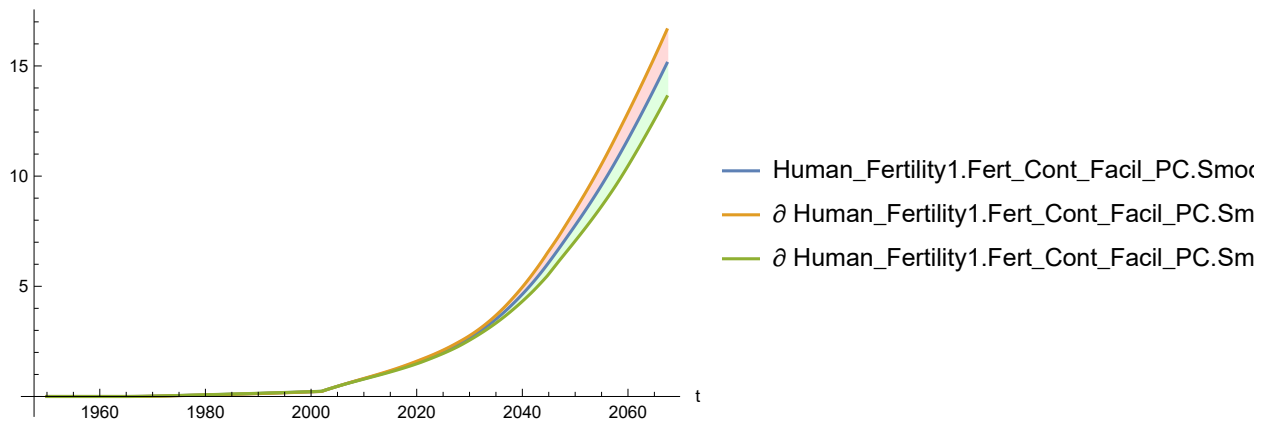
Out[111]=



In[112]:=

```
SystemModelPlot[simsensdata,
  {"Human_Fertility1.Fert_Cont_Facil_PC.Smooth1.Integrator1.y",
   "Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[2]", percentvar}]
```

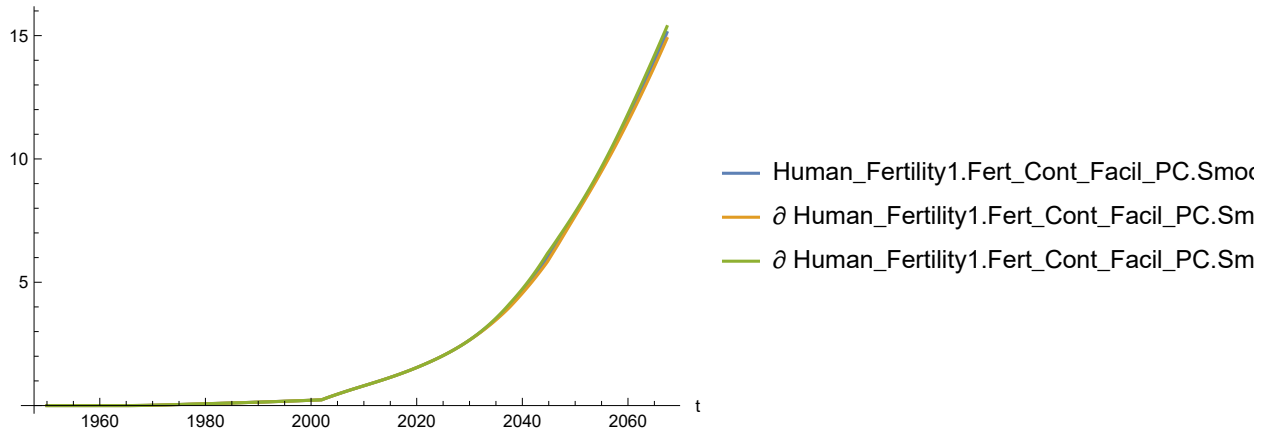
Out[112]=



In[113]:=

```
SystemModelPlot[simsensdata,
  {"Human_Fertility1.Fert_Cont_Facil_PC.Smooth1.Integrator1.y",
   "Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[3]", percentvar}]
```

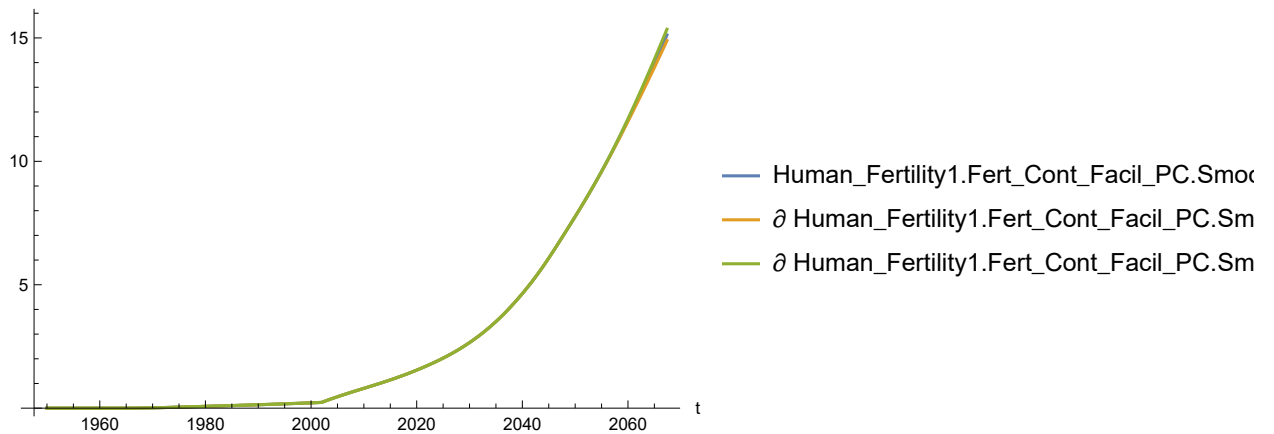
Out[113]=



In[114]:=

```
SystemModelPlot[simsensdata,
  {"Human_Fertility1.Fert_Cont_Facil_PC.Smooth1.Integrator1.y",
   "Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[4]", percentvar}]
```

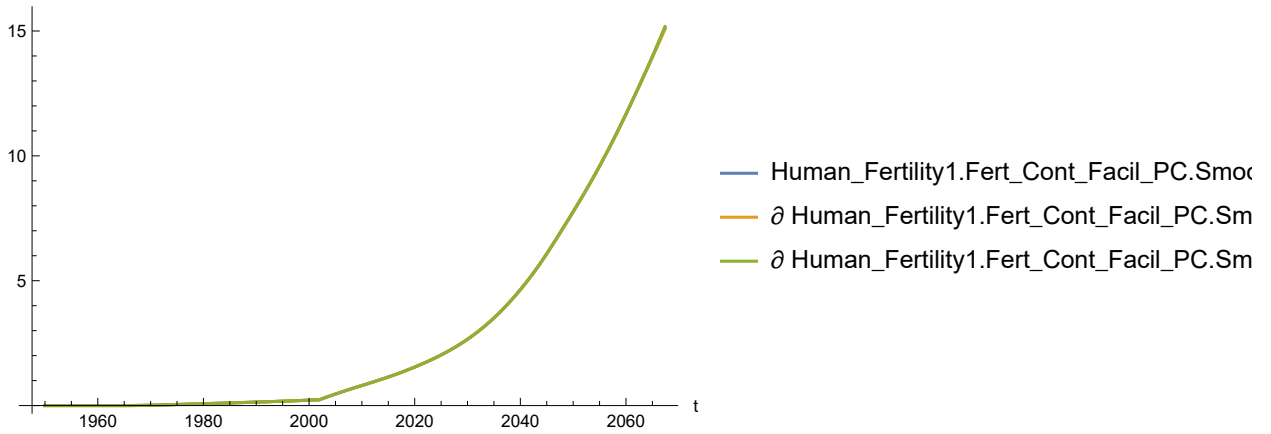
Out[114]=



In[115]:=

```
SystemModelPlot[simsensdata,
  {"Human_Fertility1.Fert_Cont_Facil_PC.Smooth1.Integrator1.y",
   "Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[5]", percentvar}]
```

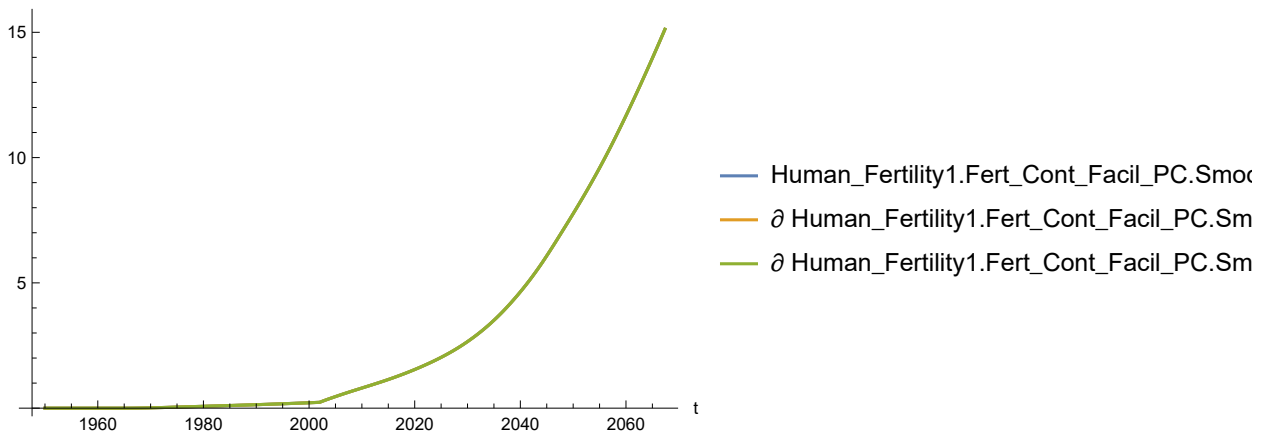
Out[115]=



In[116]:=

```
SystemModelPlot[simsensdata,
  {"Human_Fertility1.Fert_Cont_Facil_PC.Smooth1.Integrator1.y",
   "Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[6]", percentvar}]
```

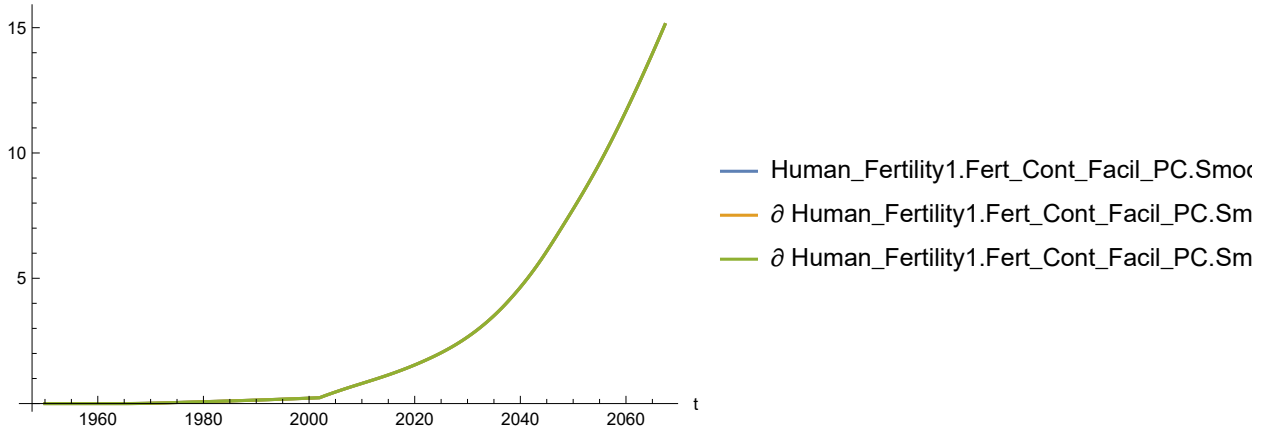
Out[116]=



In[117]:=

```
SystemModelPlot[simsensdata,
  {"Human_Fertility1.Fert_Cont_Facil_PC.Smooth1.Integrator1.y",
   "Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[7]", percentvar}]
```

Out[117]=

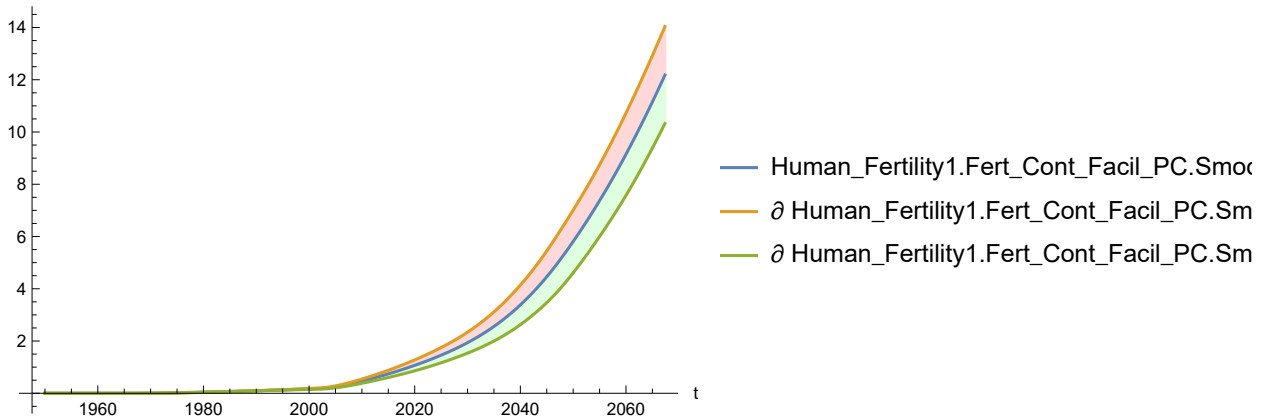


Plot the sensitivity of Human_Fertility1.Fert_Cont_Facil_PC.Smooth2.Integrator1.y to Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals.

In[118]:=

```
SystemModelPlot[simsensdata,
  {"Human_Fertility1.Fert_Cont_Facil_PC.Smooth2.Integrator1.y",
   "Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[1]", percentvar}]
```

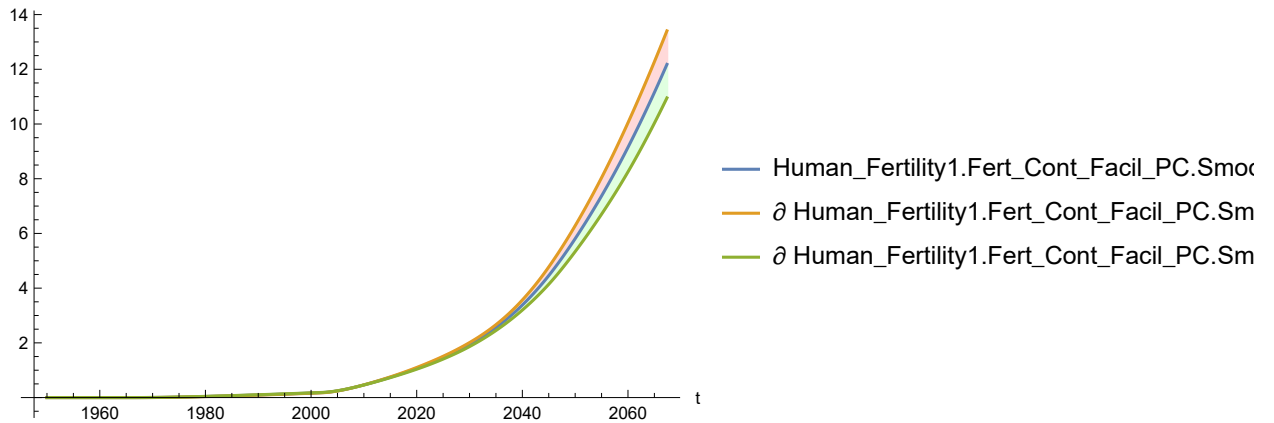
Out[118]=



In[119]:=

```
SystemModelPlot[simsensdata,
  {"Human_Fertility1.Fert_Cont_Facil_PC.Smooth2.Integrator1.y",
   "Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[2]", percentvar}]
```

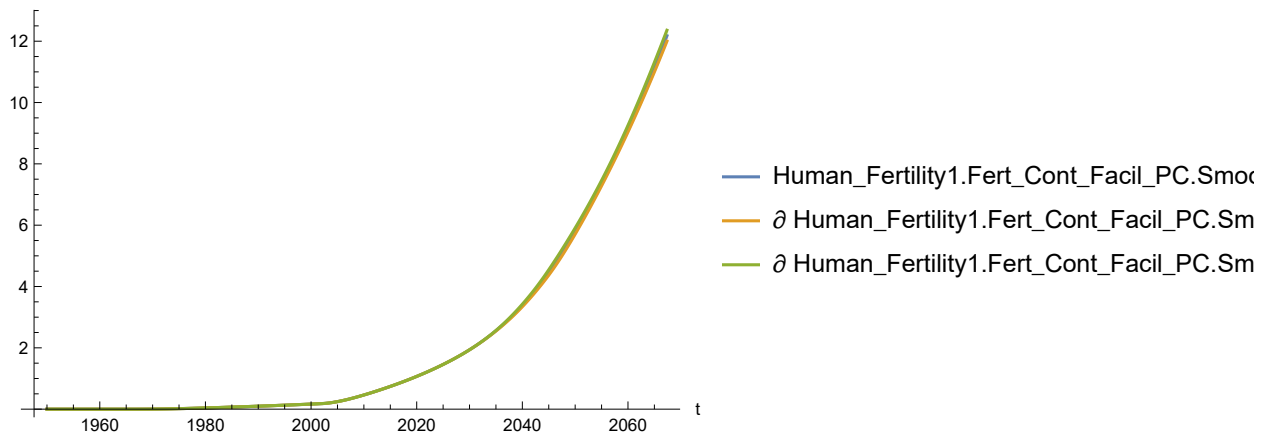
Out[119]=



In[120]:=

```
SystemModelPlot[simsensdata,
  {"Human_Fertility1.Fert_Cont_Facil_PC.Smooth2.Integrator1.y",
   "Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[3]", percentvar}]
```

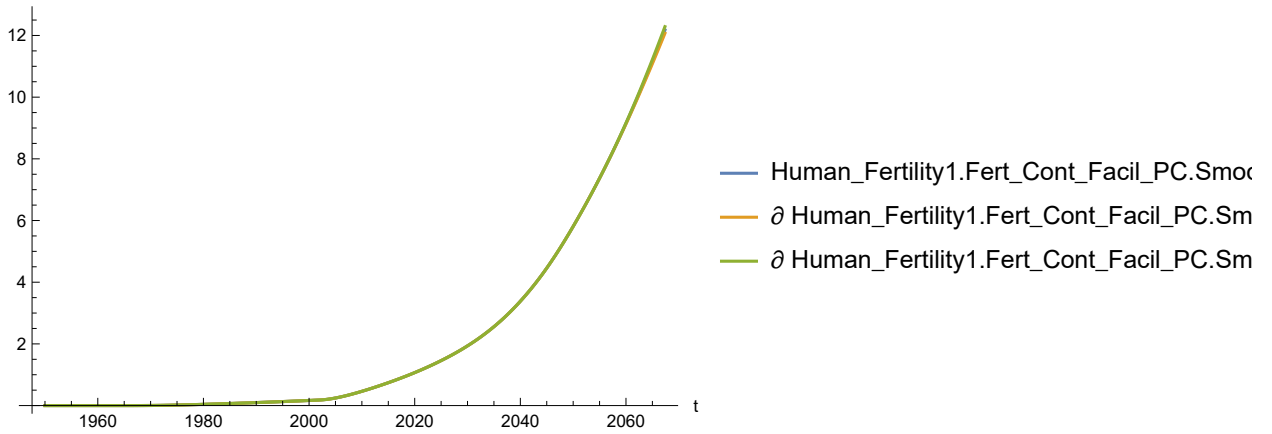
Out[120]=



In[121]:=

```
SystemModelPlot[simsensdata,
  {"Human_Fertility1.Fert_Cont_Facil_PC.Smooth2.Integrator1.y",
   "Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[4]", percentvar}]
```

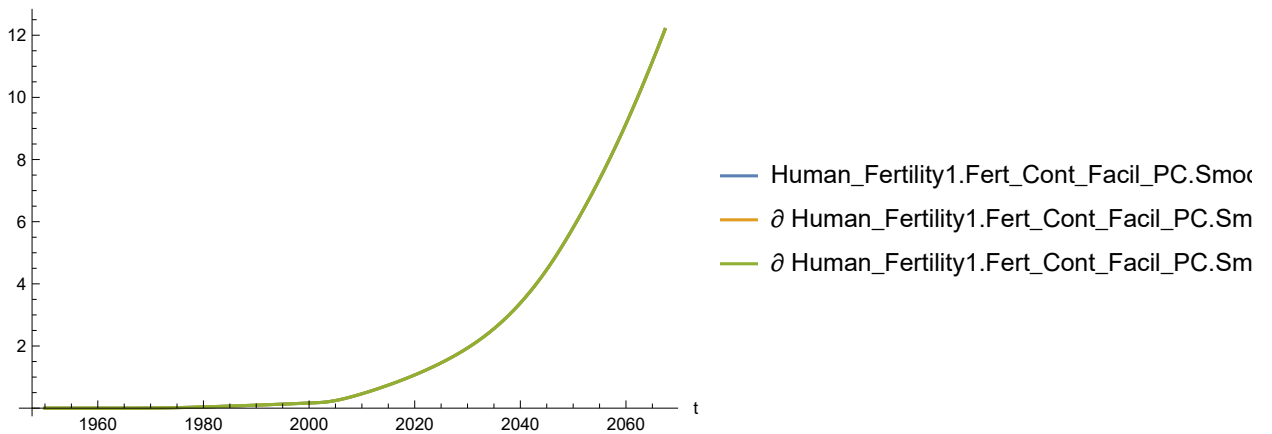
Out[121]=



In[122]:=

```
SystemModelPlot[simsensdata,
  {"Human_Fertility1.Fert_Cont_Facil_PC.Smooth2.Integrator1.y",
   "Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[5]", percentvar}]
```

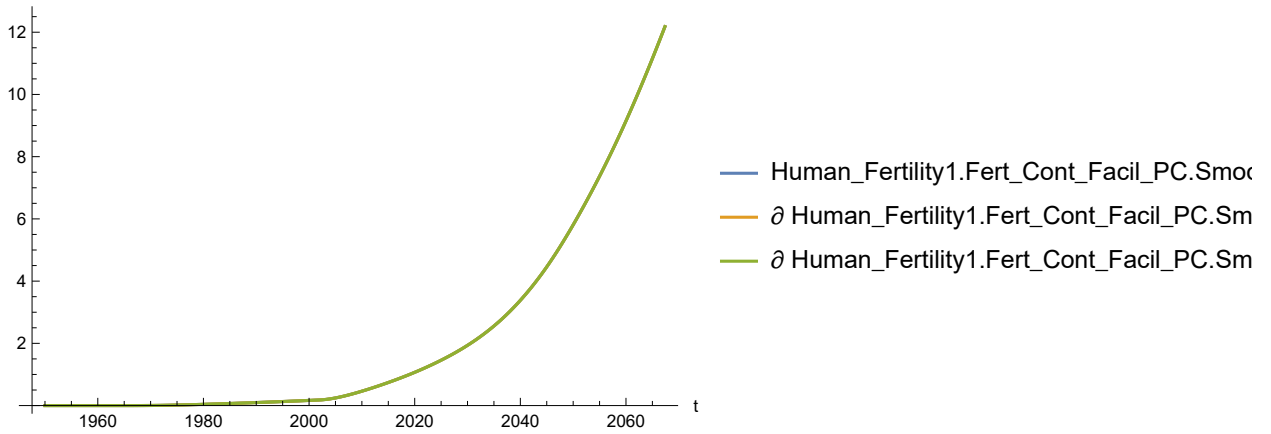
Out[122]=



In[123]:=

```
SystemModelPlot[simsensdata,
  {"Human_Fertility1.Fert_Cont_Facil_PC.Smooth2.Integrator1.y",
   "Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[6]", percentvar}]
```

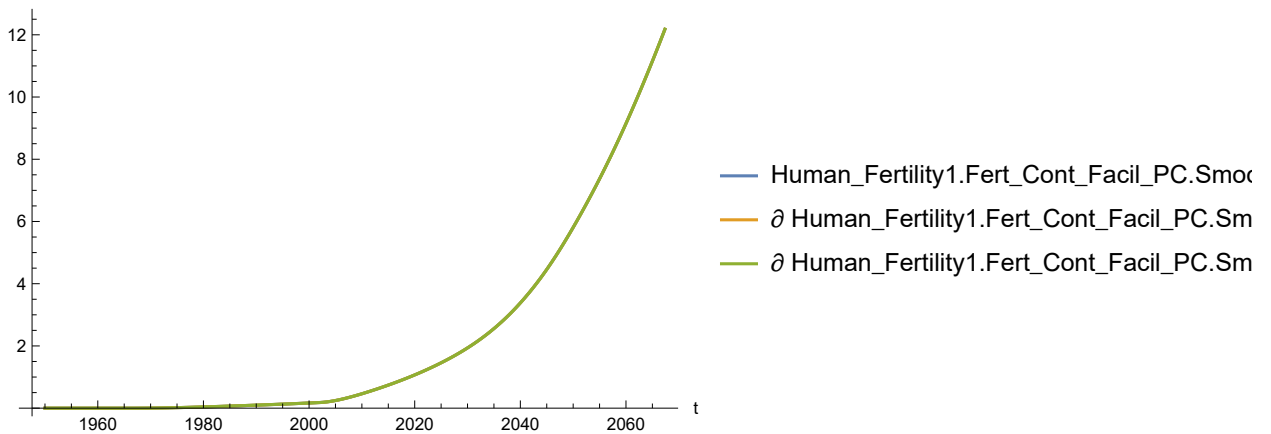
Out[123]=



In[124]:=

```
SystemModelPlot[simsensdata,
  {"Human_Fertility1.Fert_Cont_Facil_PC.Smooth2.Integrator1.y",
   "Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[7]", percentvar}]
```

Out[124]=

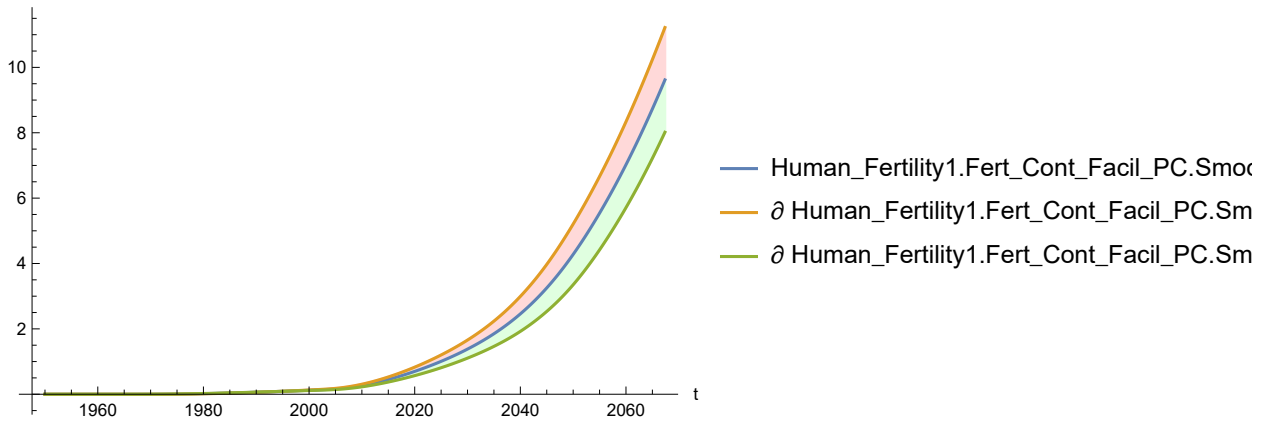


Plot the sensitivity of `Human_Fertility1.Fert_Cont_Facil_PC.Smooth3.Integrator1.y` to `Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals`.

In[125]:=

```
SystemModelPlot[simsensdata,
  {"Human_Fertility1.Fert_Cont_Facil_PC.Smooth3.Integrator1.y",
   "Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[1]", percentvar}]
```

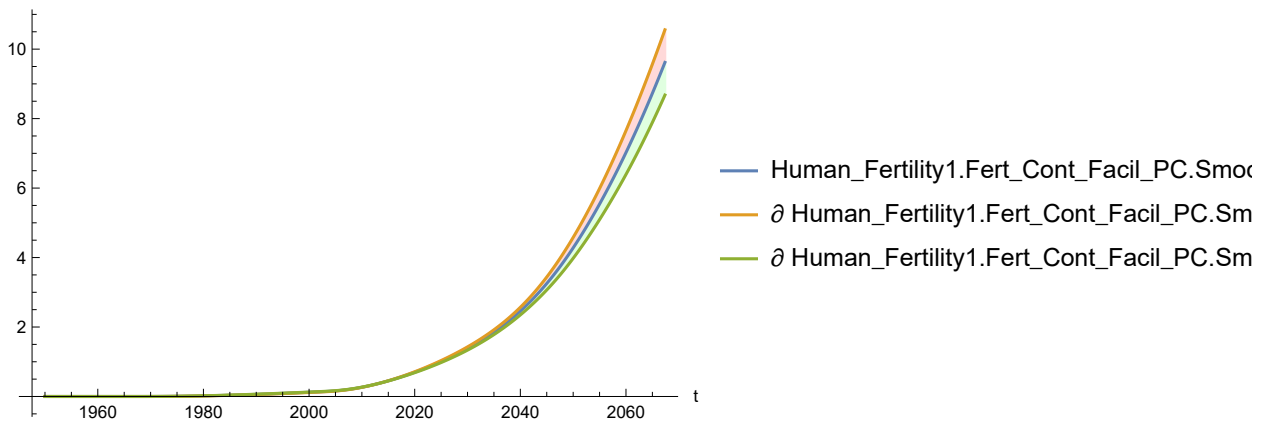
Out[125]=



In[126]:=

```
SystemModelPlot[simsensdata,
  {"Human_Fertility1.Fert_Cont_Facil_PC.Smooth3.Integrator1.y",
   "Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[2]", percentvar}]
```

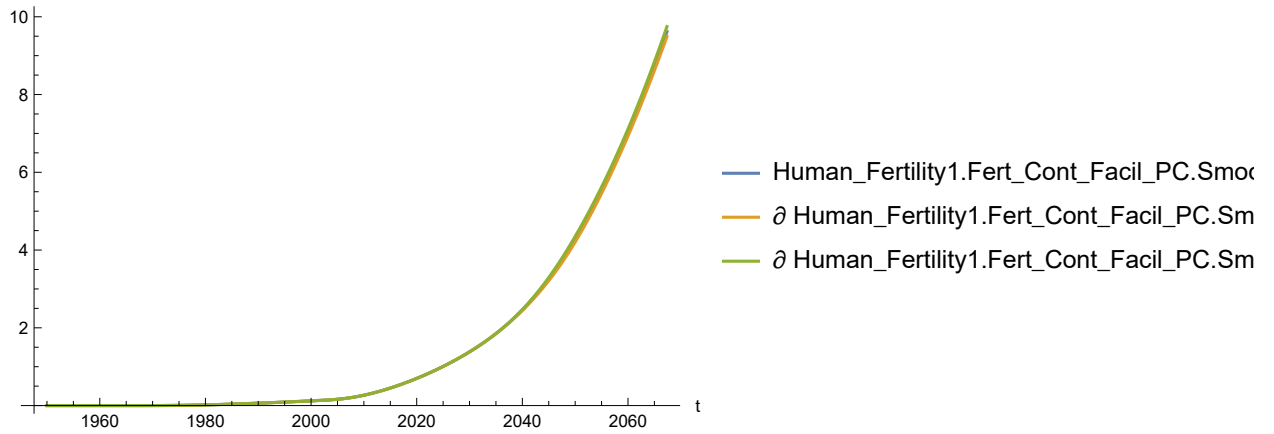
Out[126]=



In[127]:=

```
SystemModelPlot[simsensdata,
  {"Human_Fertility1.Fert_Cont_Facil_PC.Smooth3.Integrator1.y",
   "Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[3]", percentvar}]
```

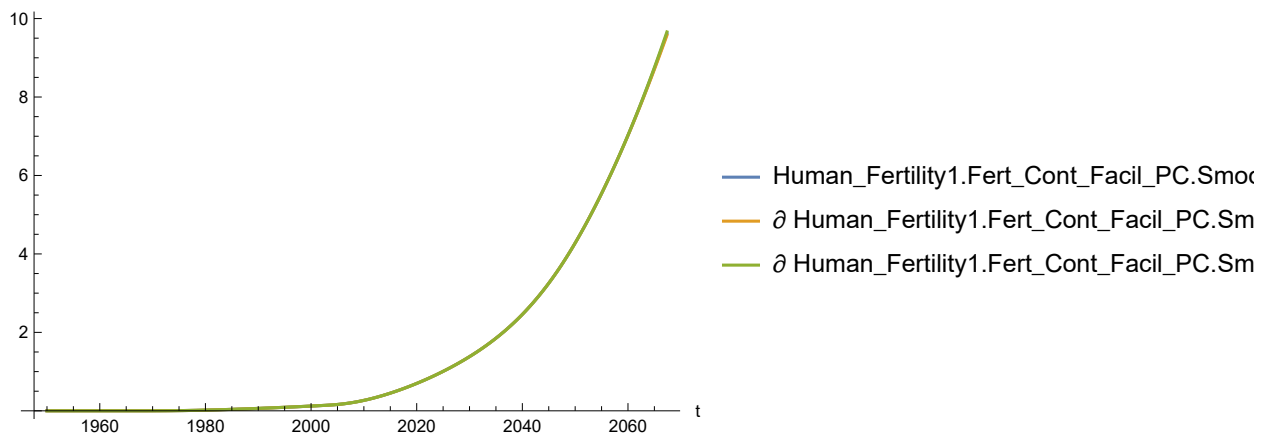
Out[127]=



In[128]:=

```
SystemModelPlot[simsensdata,
  {"Human_Fertility1.Fert_Cont_Facil_PC.Smooth3.Integrator1.y",
   "Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[4]", percentvar}]
```

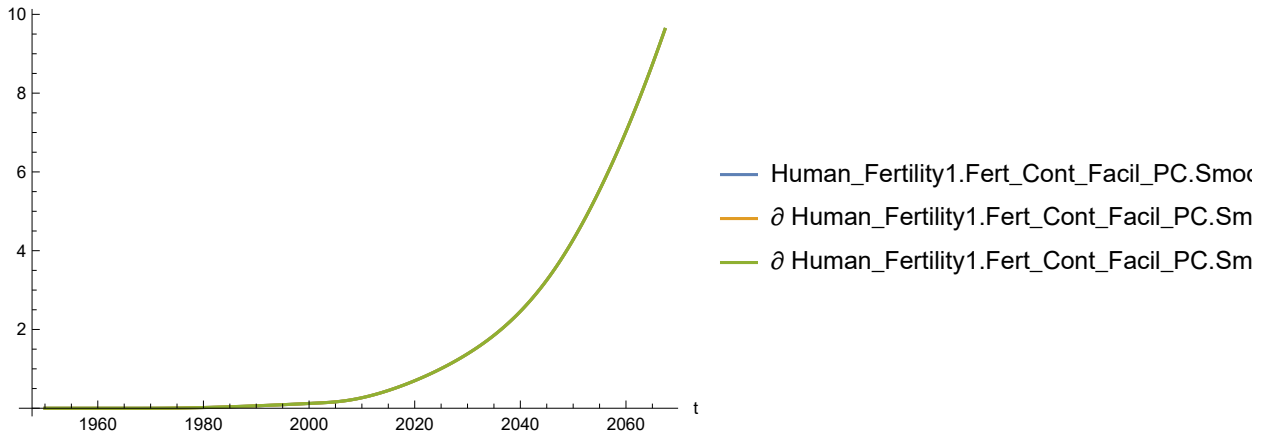
Out[128]=



In[129]:=

```
SystemModelPlot[simsensdata,
  {"Human_Fertility1.Fert_Cont_Facil_PC.Smooth3.Integrator1.y",
   "Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[5]", percentvar}]
```

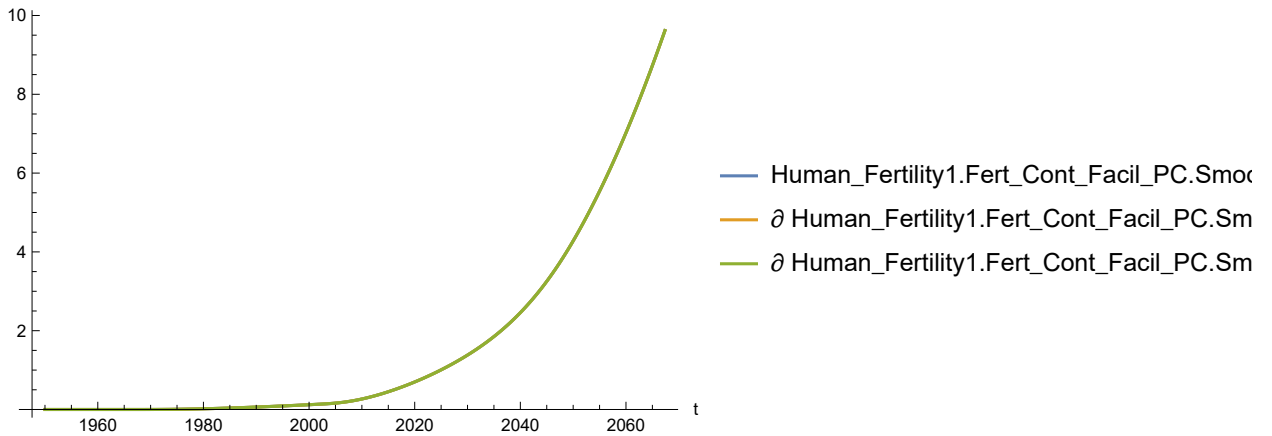
Out[129]=



In[130]:=

```
SystemModelPlot[simsensdata,
  {"Human_Fertility1.Fert_Cont_Facil_PC.Smooth3.Integrator1.y",
   "Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[6]", percentvar}]
```

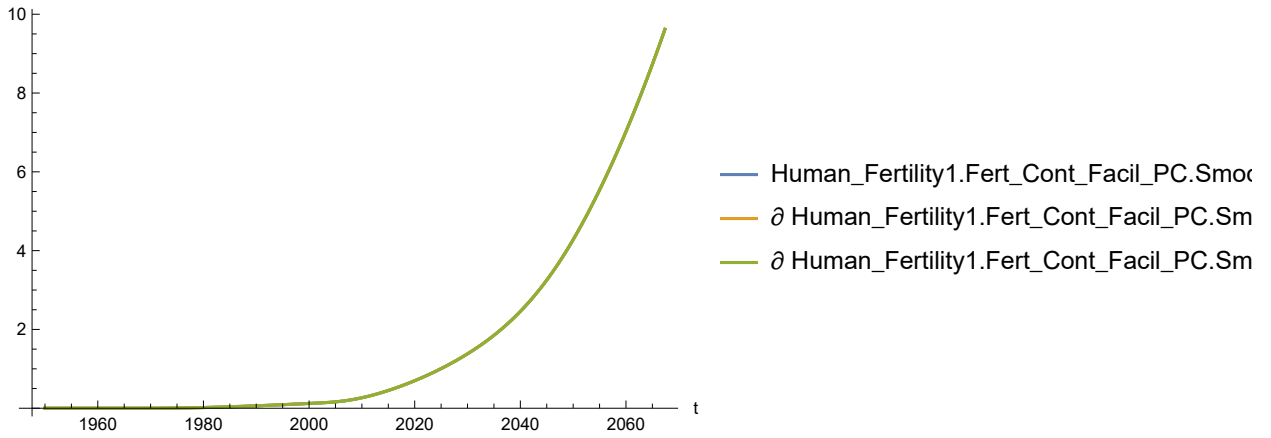
Out[130]=



In[131]:=

```
SystemModelPlot[simsensdata,
  {"Human_Fertility1.Fert_Cont_Facil_PC.Smooth3.Integrator1.y",
   "Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[7]", percentvar}]
```

Out[131]=

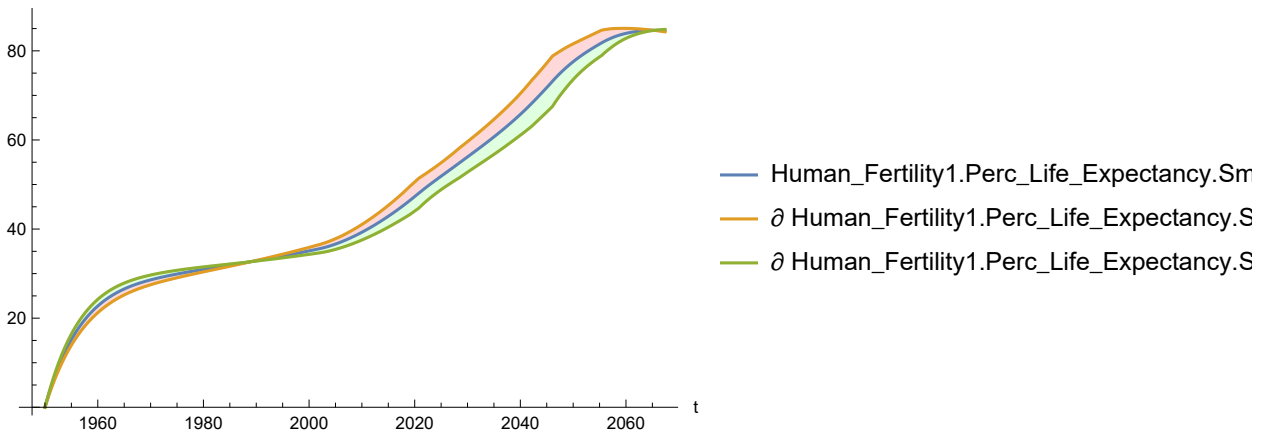


Plot the sensitivity of Human_Fertility1.Perc_Life_Expectancy.Smooth1.Integrator1.y to Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals.

In[132]:=

```
SystemModelPlot[simsensdata,
  {"Human_Fertility1.Perc_Life_Expectancy.Smooth1.Integrator1.y",
   "Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[1]", percentvar}]
```

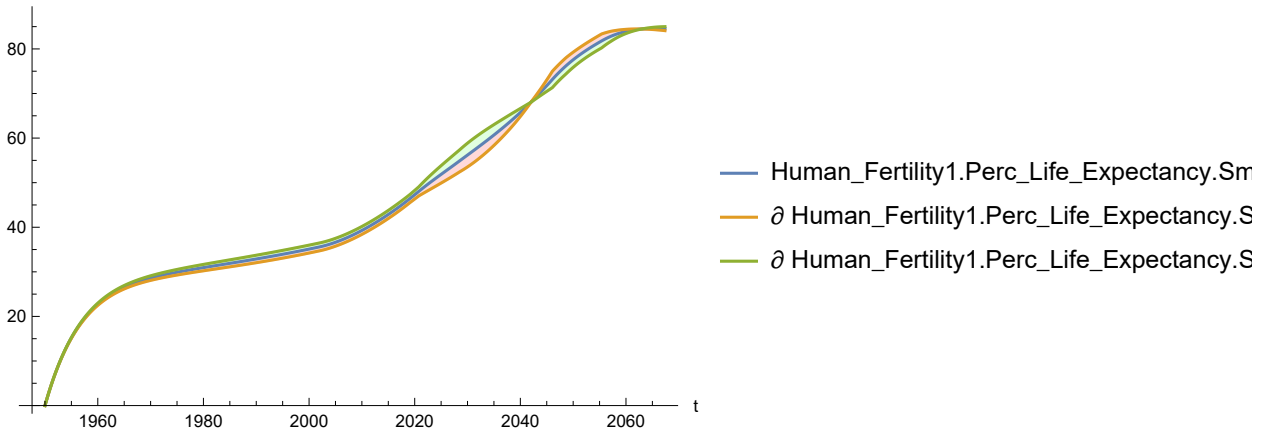
Out[132]=



In[133]:=

```
SystemModelPlot[simsensdata,
  {"Human_Fertility1.Perc_Life_Expectancy.Smooth1.Integrator1.y",
   "Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[2]", percentvar}]
```

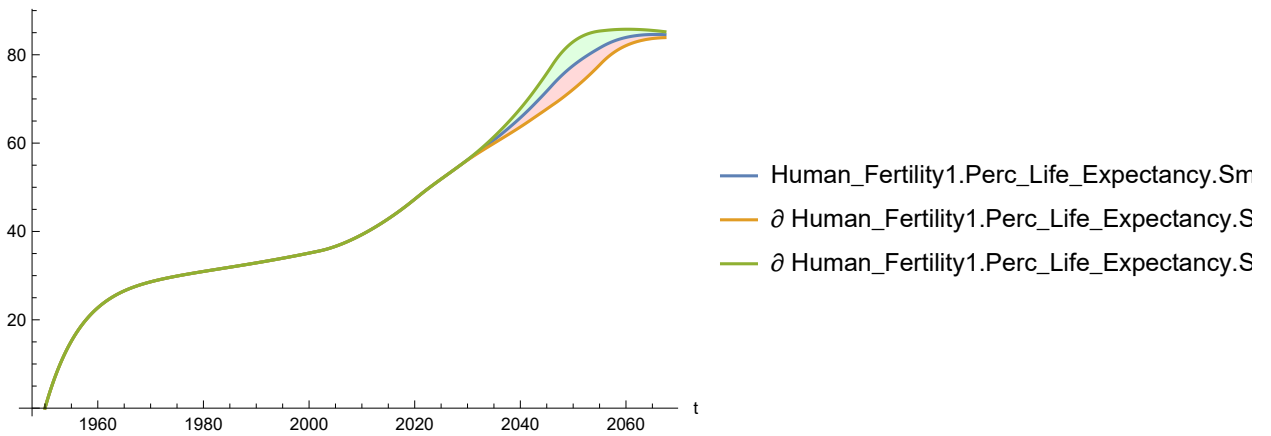
Out[133]=



In[134]:=

```
SystemModelPlot[simsensdata,
  {"Human_Fertility1.Perc_Life_Expectancy.Smooth1.Integrator1.y",
   "Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[3]", percentvar}]
```

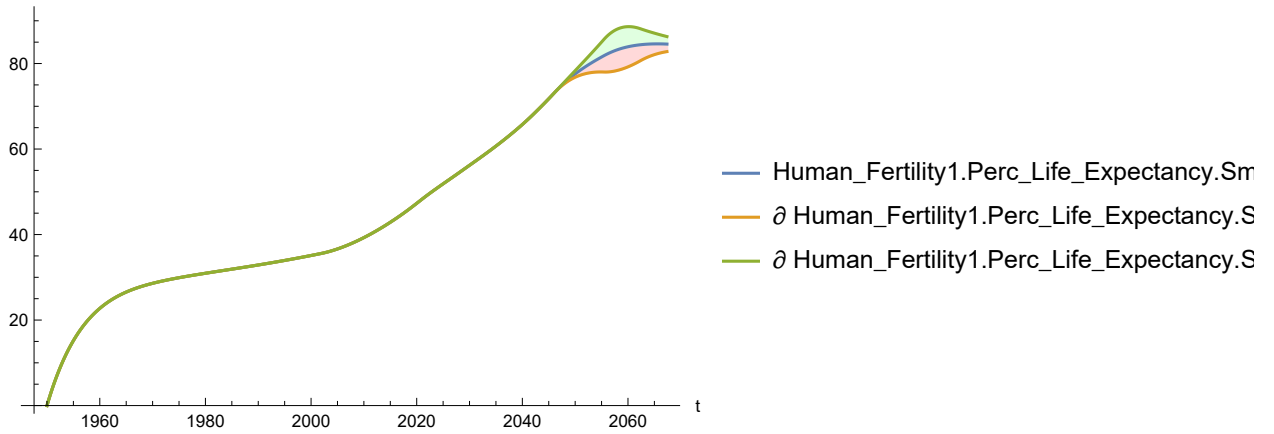
Out[134]=



In[135]:=

```
SystemModelPlot[simsensdata,
  {"Human_Fertility1.Perc_Life_Expectancy.Smooth1.Integrator1.y",
   "Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[4]", percentvar}]
```

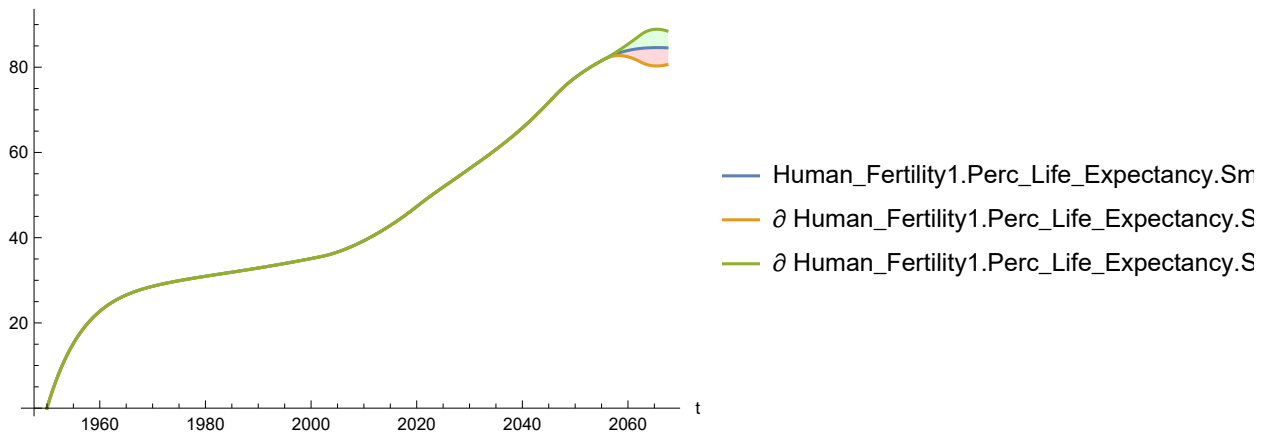
Out[135]=



In[136]:=

```
SystemModelPlot[simsensdata,
  {"Human_Fertility1.Perc_Life_Expectancy.Smooth1.Integrator1.y",
   "Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[5]", percentvar}]
```

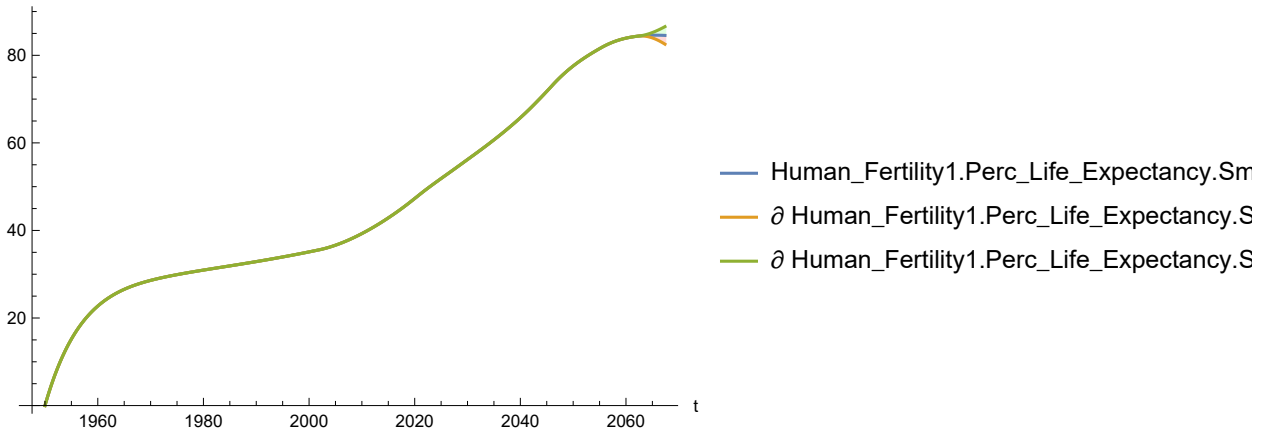
Out[136]=



In[137]:=

```
SystemModelPlot[simsensdata,
  {"Human_Fertility1.Perc_Life_Expectancy.Smooth1.Integrator1.y",
   "Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[6]", percentvar}]
```

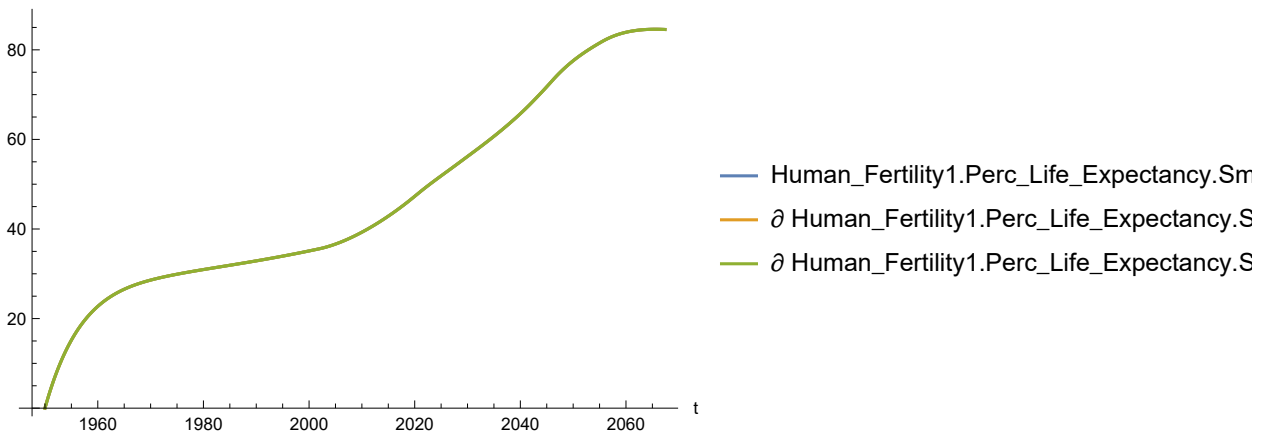
Out[137]=



In[138]:=

```
SystemModelPlot[simsensdata,
  {"Human_Fertility1.Perc_Life_Expectancy.Smooth1.Integrator1.y",
   "Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[7]", percentvar}]
```

Out[138]=

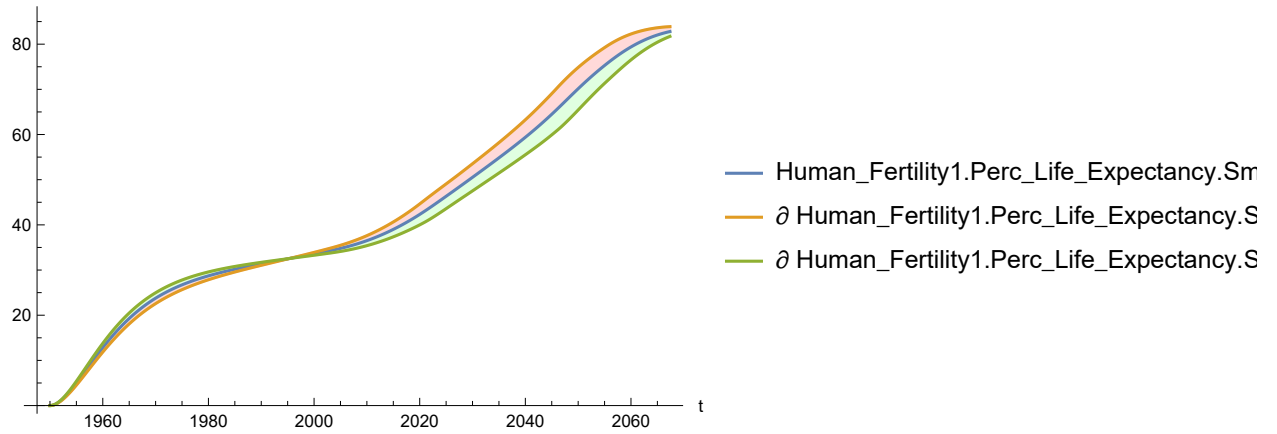


Plot the sensitivity of Human_Fertility1.Perc_Life_Expectancy.Smooth2.Integrator1.y to Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals.

In[139]:=

```
SystemModelPlot[simsensdata,
  {"Human_Fertility1.Perc_Life_Expectancy.Smooth2.Integrator1.y",
   "Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[1]", percentvar}]
```

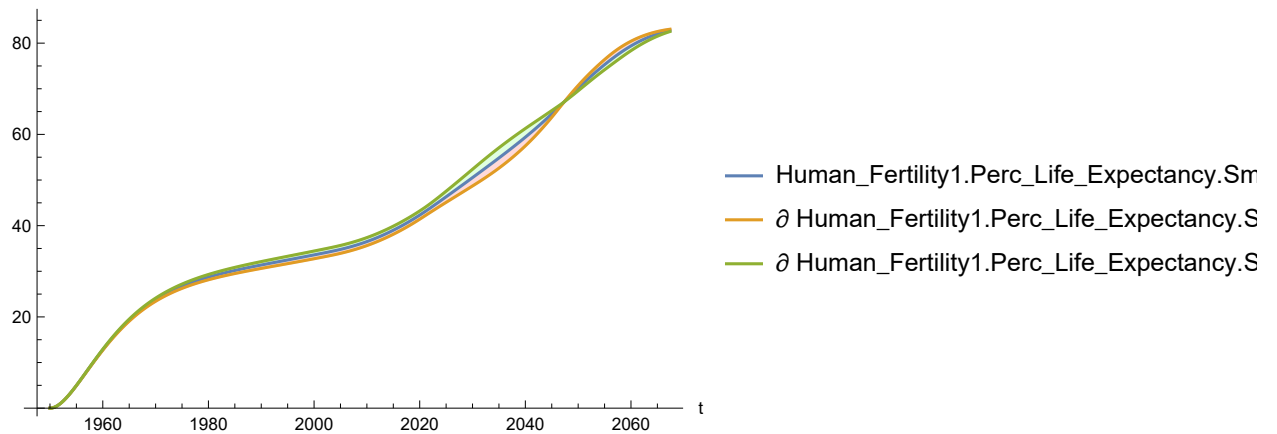
Out[139]=



In[140]:=

```
SystemModelPlot[simsensdata,
  {"Human_Fertility1.Perc_Life_Expectancy.Smooth2.Integrator1.y",
   "Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[2]", percentvar}]
```

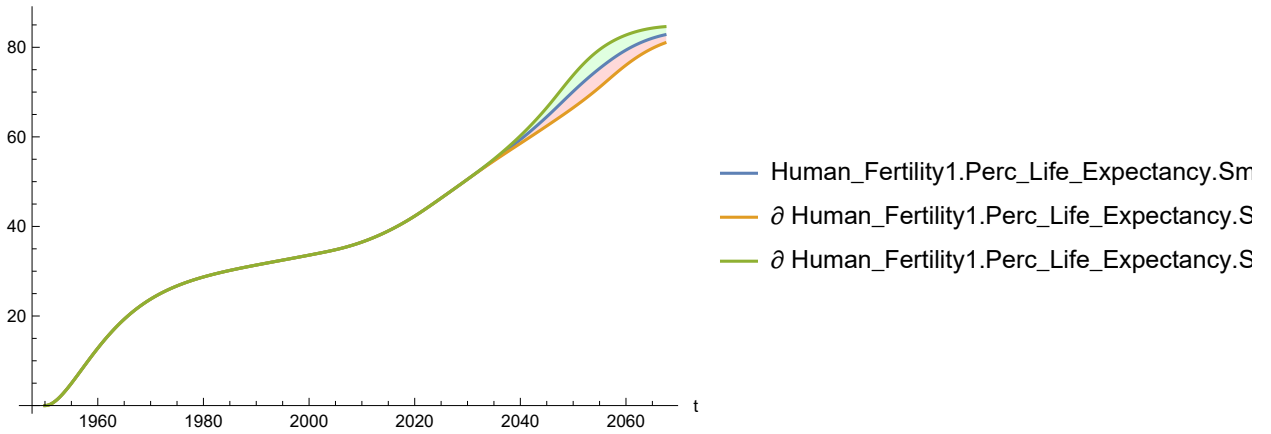
Out[140]=



In[141]:=

```
SystemModelPlot[simsensdata,
  {"Human_Fertility1.Perc_Life_Expectancy.Smooth2.Integrator1.y",
   "Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[3]", percentvar}]
```

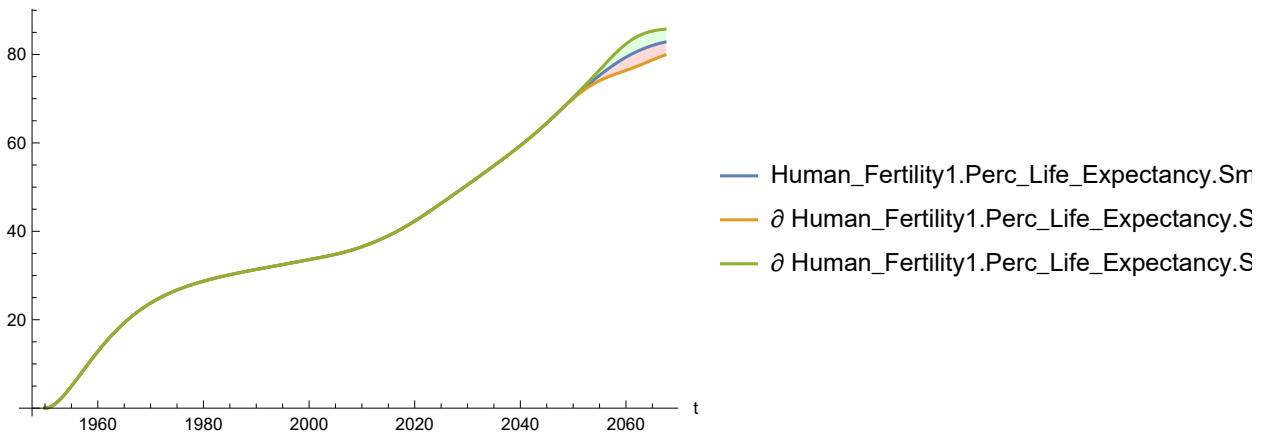
Out[141]=



In[142]:=

```
SystemModelPlot[simsensdata,
  {"Human_Fertility1.Perc_Life_Expectancy.Smooth2.Integrator1.y",
   "Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[4]", percentvar}]
```

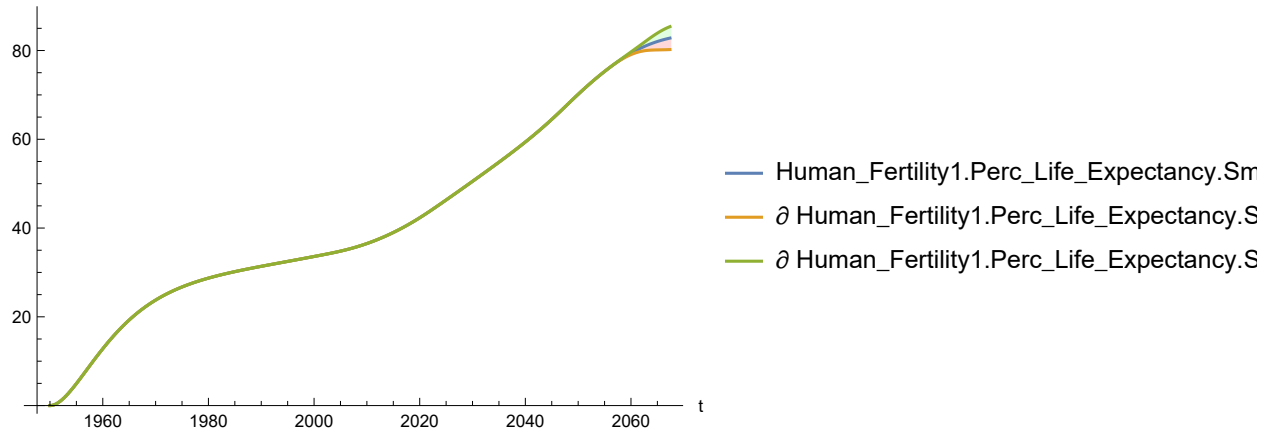
Out[142]=



In[143]:=

```
SystemModelPlot[simsensdata,
  {"Human_Fertility1.Perc_Life_Expectancy.Smooth2.Integrator1.y",
   "Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[5]", percentvar}]
```

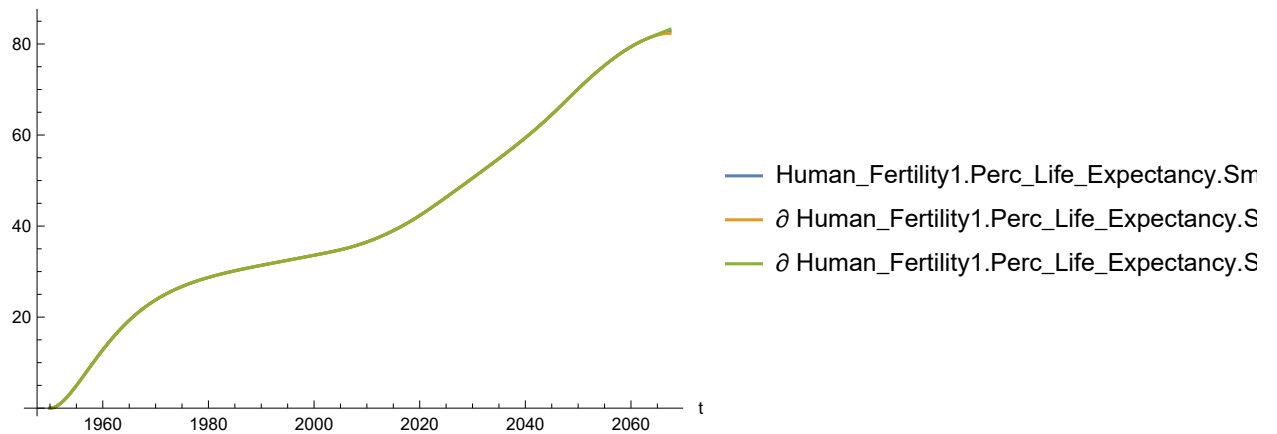
Out[143]=



In[144]:=

```
SystemModelPlot[simsensdata,
  {"Human_Fertility1.Perc_Life_Expectancy.Smooth2.Integrator1.y",
   "Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[6]", percentvar}]
```

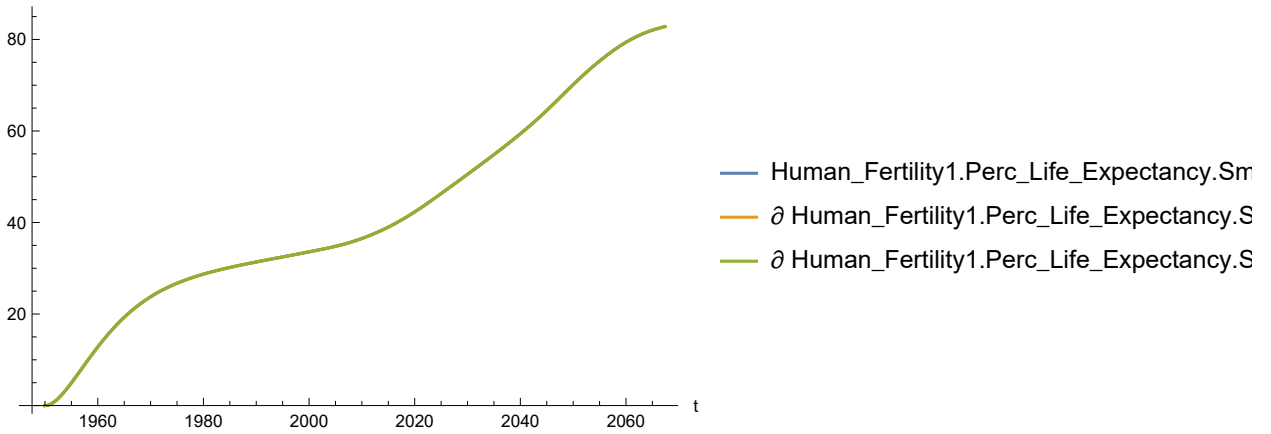
Out[144]=



In[145]:=

```
SystemModelPlot[simsensdata,
  {"Human_Fertility1.Perc_Life_Expectancy.Smooth2.Integrator1.y",
   "Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[7]", percentvar}]
```

Out[145]=

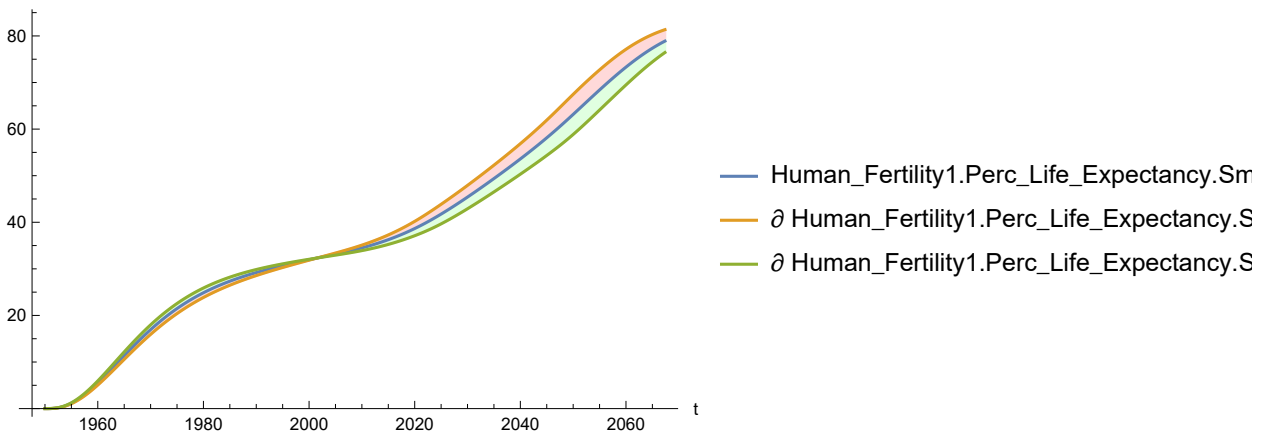


Plot the sensitivity of Human_Fertility1.Perc_Life_Expectancy.Smooth3.Integrator1.y to Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals.

In[146]:=

```
SystemModelPlot[simsensdata,
  {"Human_Fertility1.Perc_Life_Expectancy.Smooth3.Integrator1.y",
   "Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[1]", percentvar}]
```

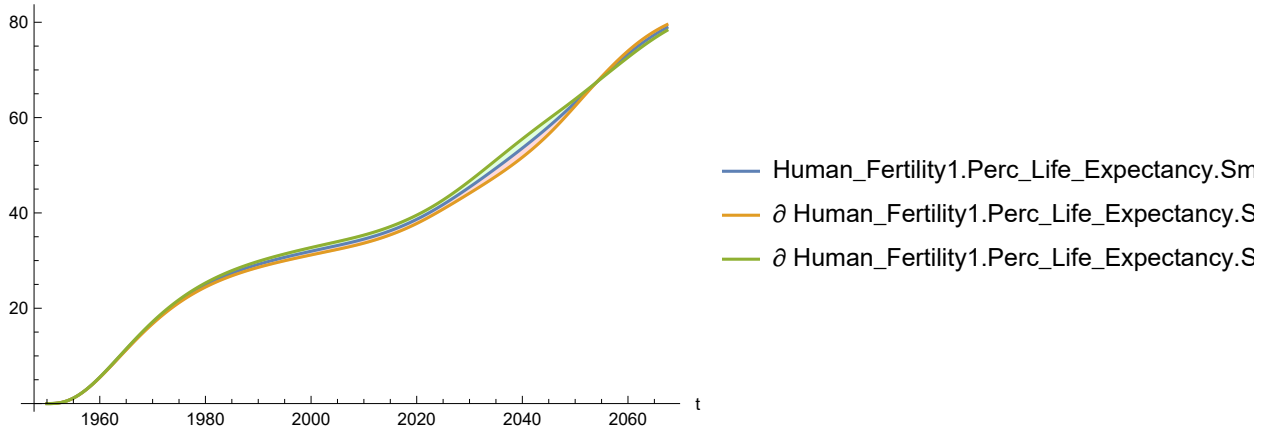
Out[146]=



In[147]:=

```
SystemModelPlot[simsensdata,
  {"Human_Fertility1.Perc_Life_Expectancy.Smooth3.Integrator1.y",
   "Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[2]", percentvar}]
```

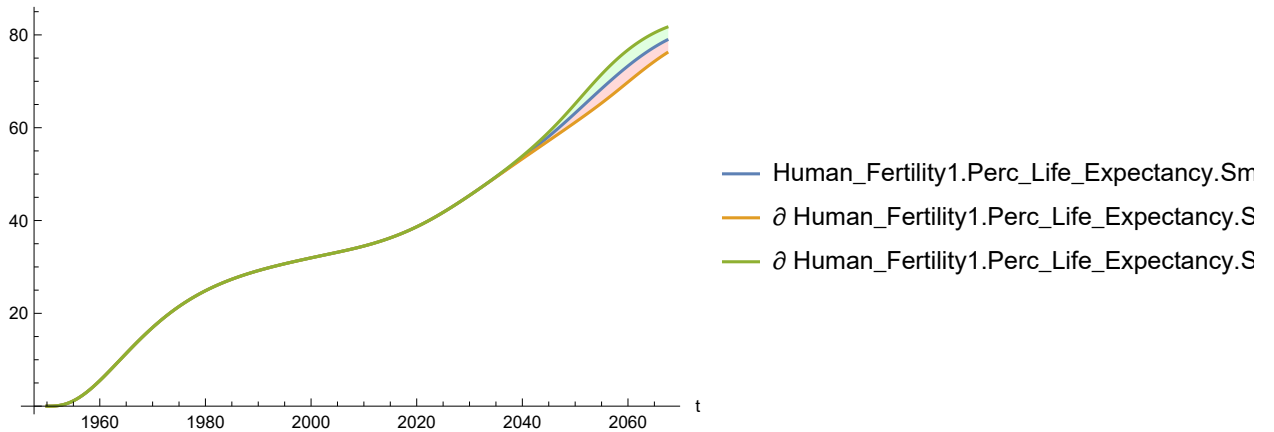
Out[147]=



In[148]:=

```
SystemModelPlot[simsensdata,
  {"Human_Fertility1.Perc_Life_Expectancy.Smooth3.Integrator1.y",
   "Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[3]", percentvar}]
```

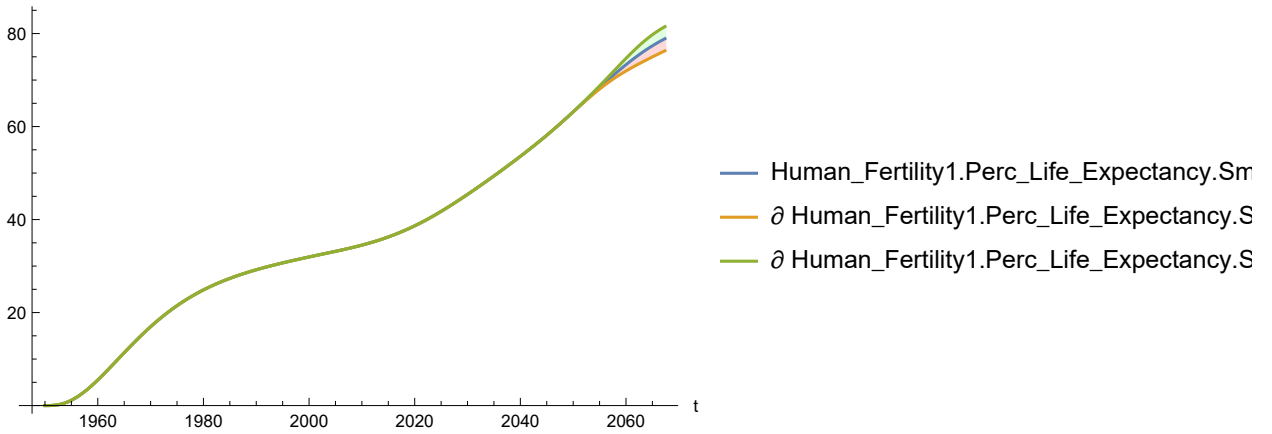
Out[148]=



In[149]:=

```
SystemModelPlot[simsensdata,
  {"Human_Fertility1.Perc_Life_Expectancy.Smooth3.Integrator1.y",
   "Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[4]", percentvar}]
```

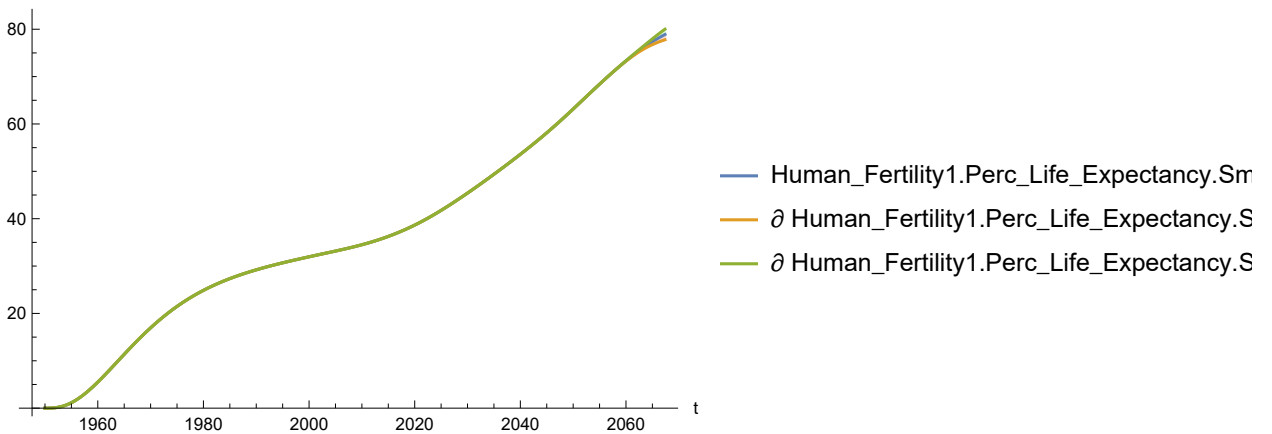
Out[149]=



In[150]:=

```
SystemModelPlot[simsensdata,
  {"Human_Fertility1.Perc_Life_Expectancy.Smooth3.Integrator1.y",
   "Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[5]", percentvar}]
```

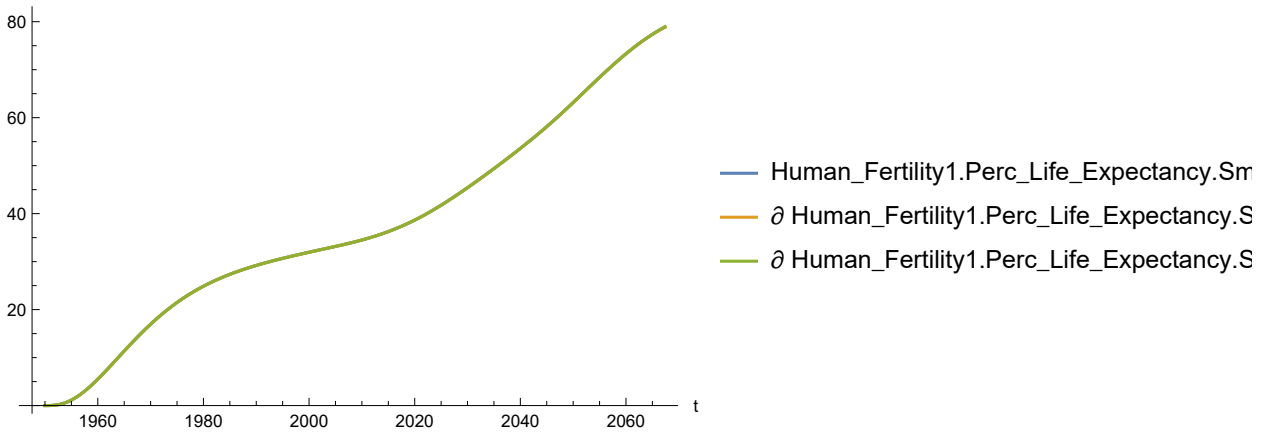
Out[150]=



In[151]:=

```
SystemModelPlot[simsensdata,
  {"Human_Fertility1.Perc_Life_Expectancy.Smooth3.Integrator1.y",
   "Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[6]", percentvar}]
```

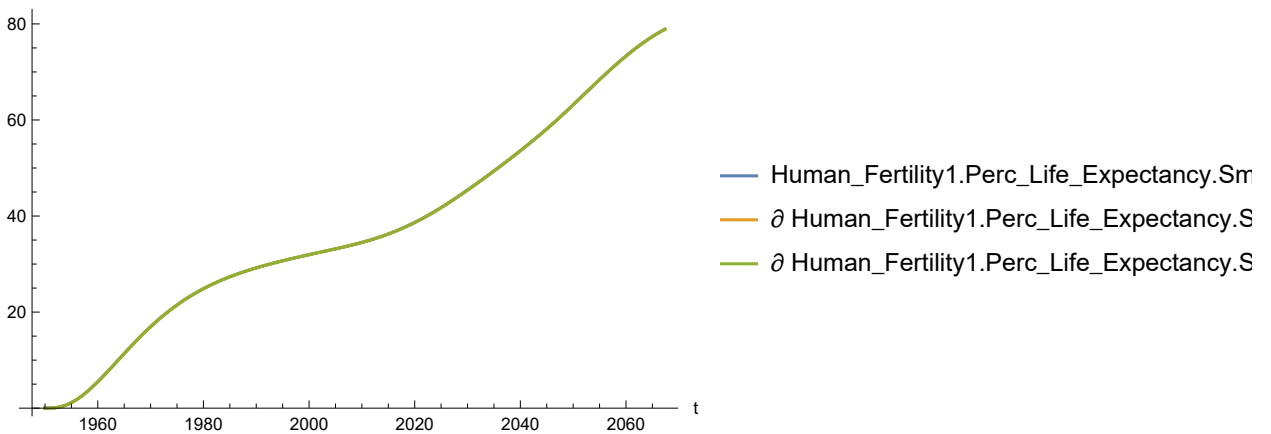
Out[151]=



In[152]:=

```
SystemModelPlot[simsensdata,
  {"Human_Fertility1.Perc_Life_Expectancy.Smooth3.Integrator1.y",
   "Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[7]", percentvar}]
```

Out[152]=

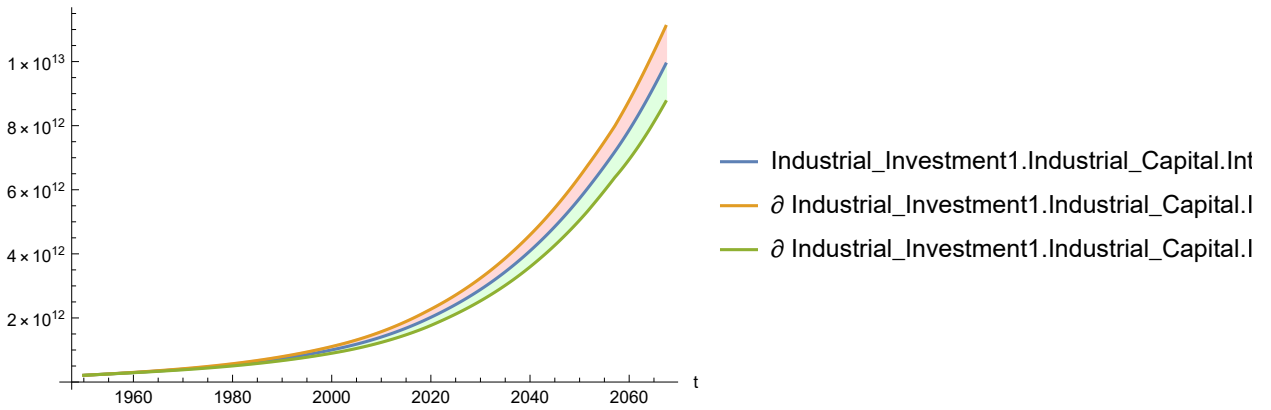


Plot the sensitivity of `Industrial_Investment1.Industrial_Capital.Integrator1.y` to `Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals`.

In[153]:=

```
SystemModelPlot[simsensdata, {"Industrial_Investment1.Industrial_Capital.Integrator1.y",
"Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[1]", percentvar}]
```

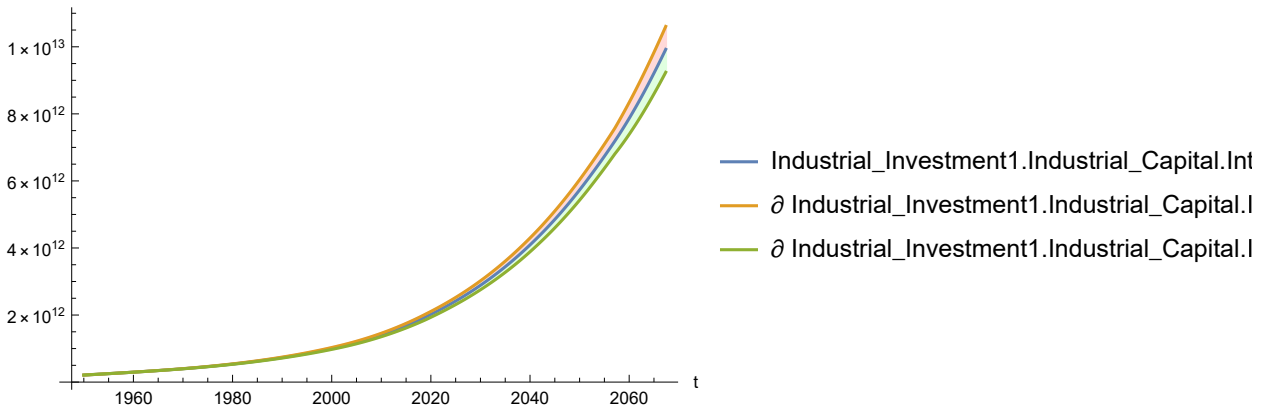
Out[153]:=



In[154]:=

```
SystemModelPlot[simsensdata, {"Industrial_Investment1.Industrial_Capital.Integrator1.y",
"Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[2]", percentvar}]
```

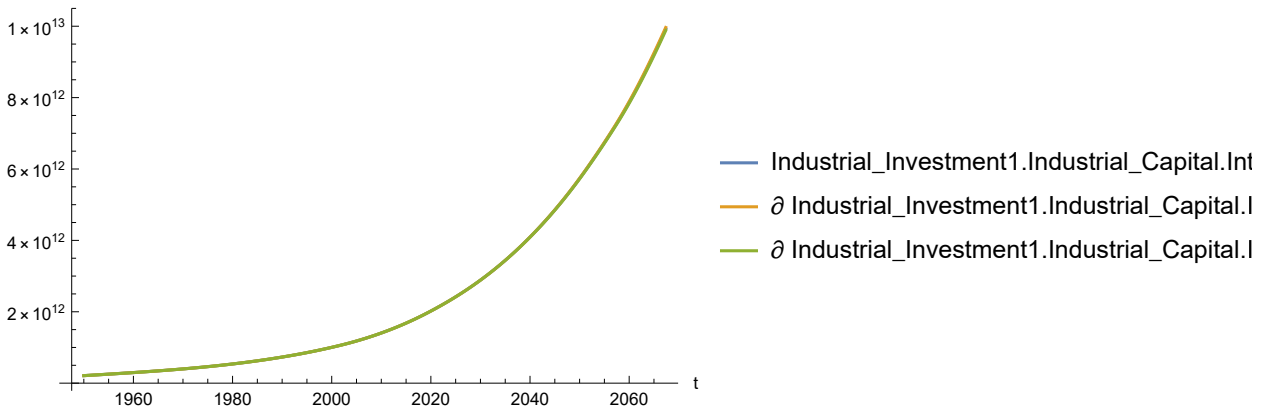
Out[154]:=



In[155]:=

```
SystemModelPlot[simsensdata, {"Industrial_Investment1.Industrial_Capital.Integrator1.y",
"Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[3]", percentvar}]
```

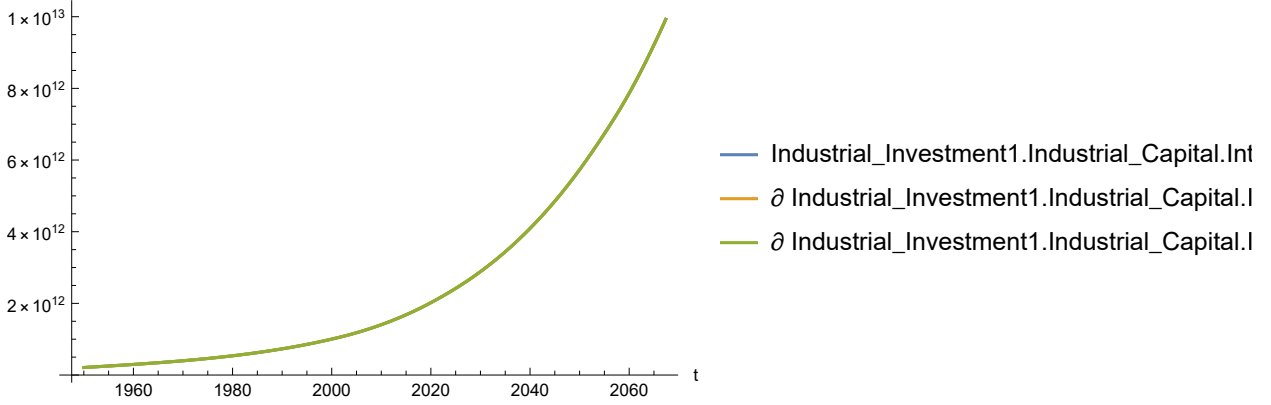
Out[155]:=



In[156]:=

```
SystemModelPlot[simsensdata, {"Industrial_Investment1.Industrial_Capital.Integrator1.y",
"Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[4]", percentvar}]
```

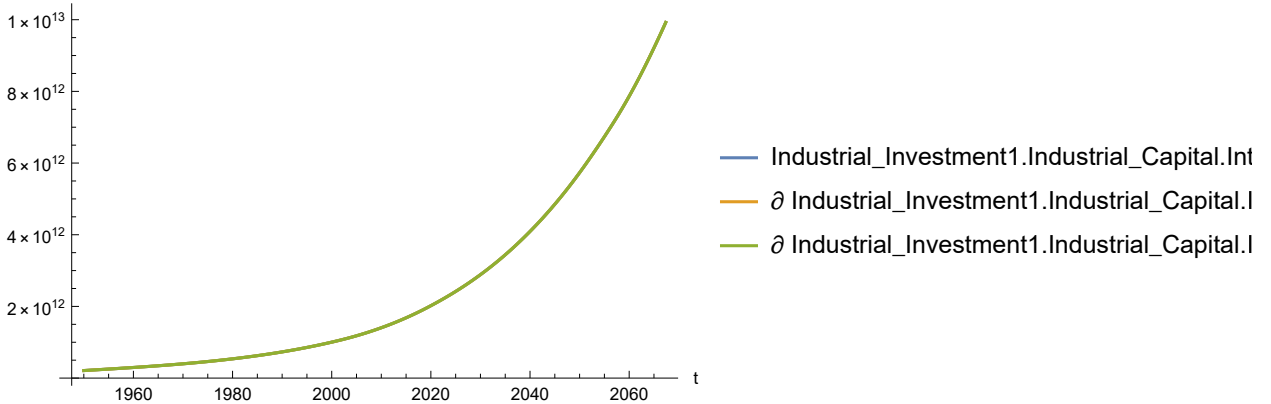
Out[156]=



In[157]:=

```
SystemModelPlot[simsensdata, {"Industrial_Investment1.Industrial_Capital.Integrator1.y",
"Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[5]", percentvar}]
```

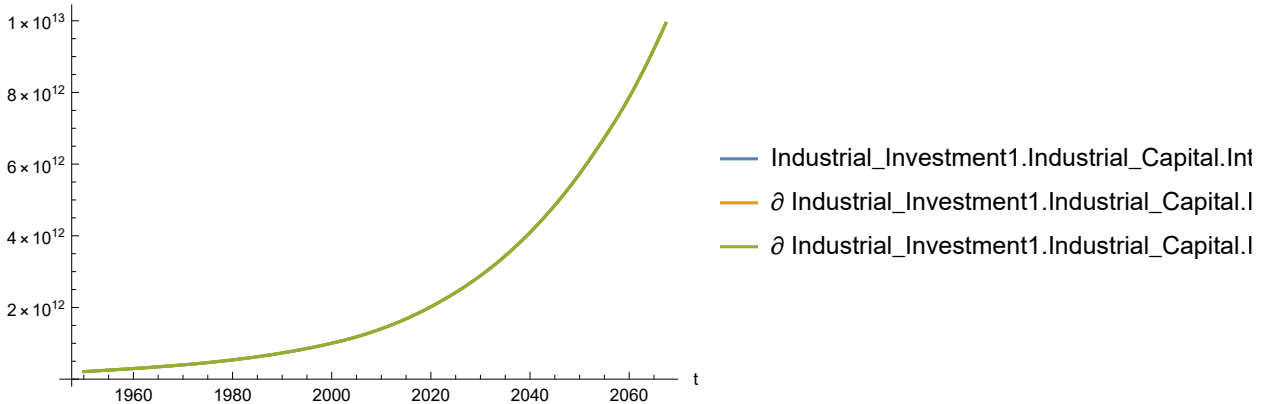
Out[157]=



In[158]:=

```
SystemModelPlot[simsensdata, {"Industrial_Investment1.Industrial_Capital.Integrator1.y",
"Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[6]", percentvar}]
```

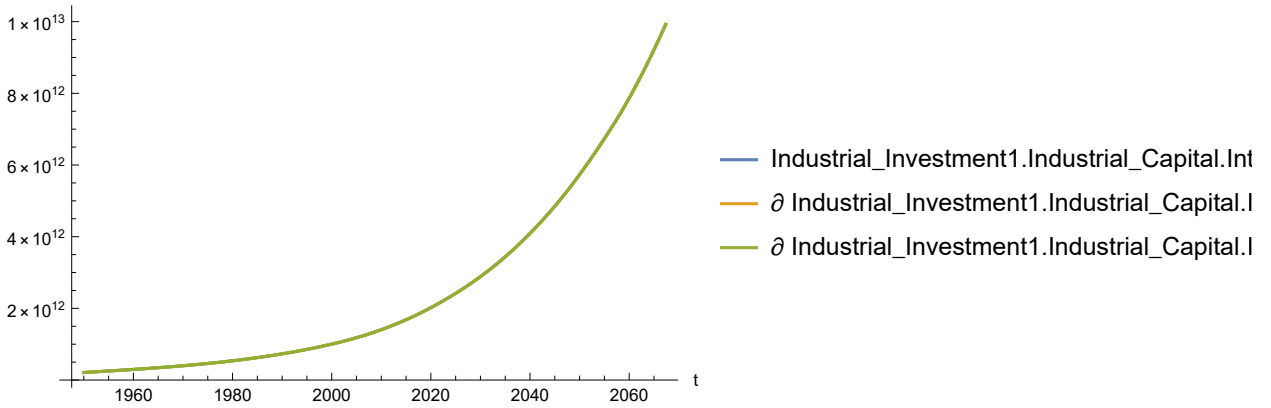
Out[158]=



In[159]:=

```
SystemModelPlot[simsensdata, {"Industrial_Investment1.Industrial_Capital.Integrator1.y",
"Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[7]", percentvar}]
```

Out[159]=

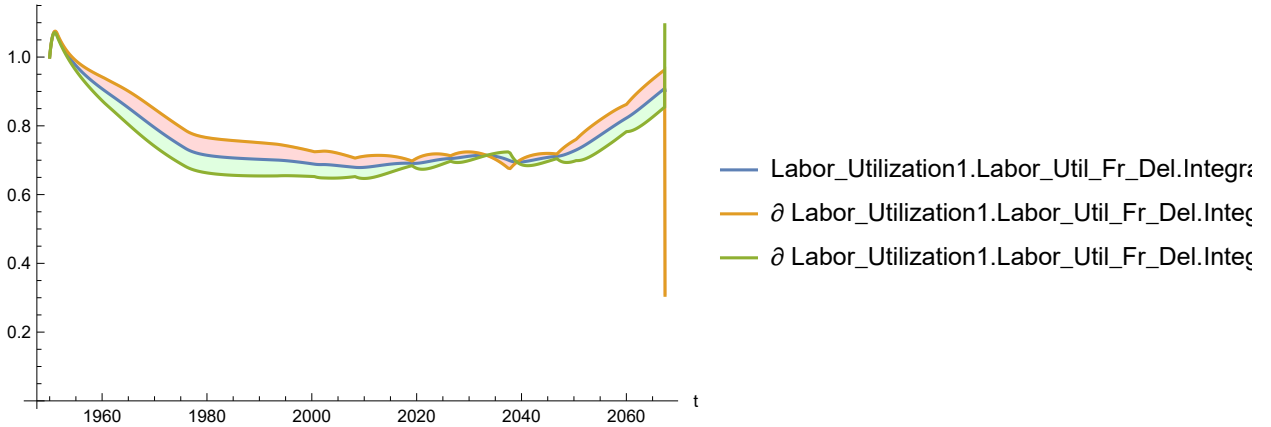


Plot the sensitivity of Labor_Utilization1.Labor_Util_Fr_Del.Integrator1.y to Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals.

In[160]:=

```
SystemModelPlot[simsensdata, {"Labor_Utilization1.Labor_Util_Fr_Del.Integrator1.y",
"Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[1]", percentvar}]
```

Out[160]=



In[161]:=

```
SystemModelPlot[simsensdata, {"Labor_Utilization1.Labor_Util_Fr_Del.Integrator1.y",
    "Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[2]", percentvar}]
```

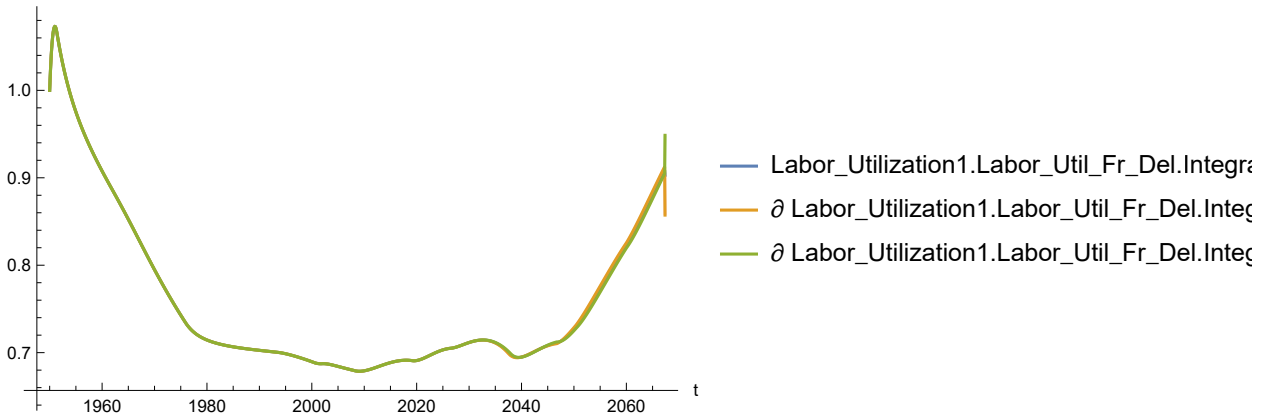
Out[161]=



In[162]:=

```
SystemModelPlot[simsensdata, {"Labor_Utilization1.Labor_Util_Fr_Del.Integrator1.y",
    "Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[3]", percentvar}]
```

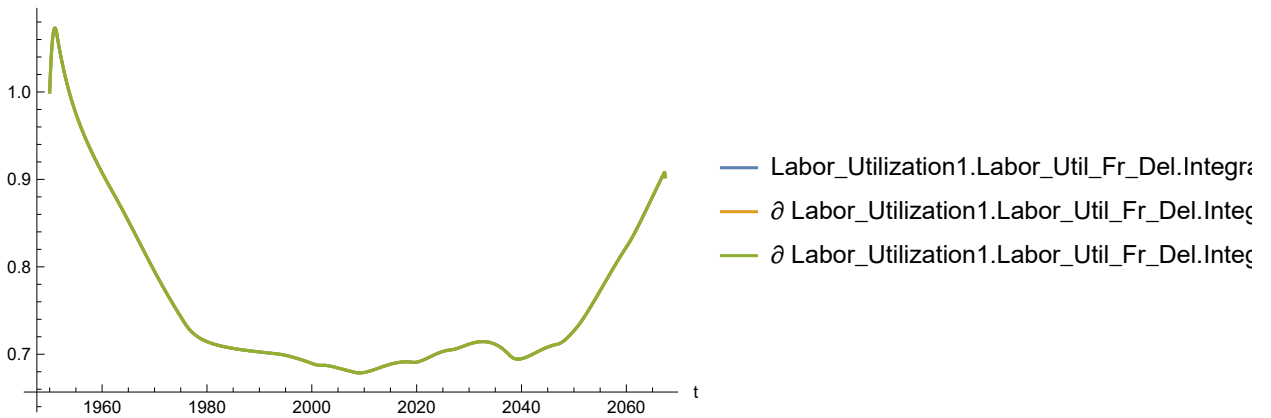
Out[162]=



In[163]:=

```
SystemModelPlot[simsensdata, {"Labor_Utilization1.Labor_Util_Fr_Del.Integrator1.y",
"Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[4]", percentvar}]
```

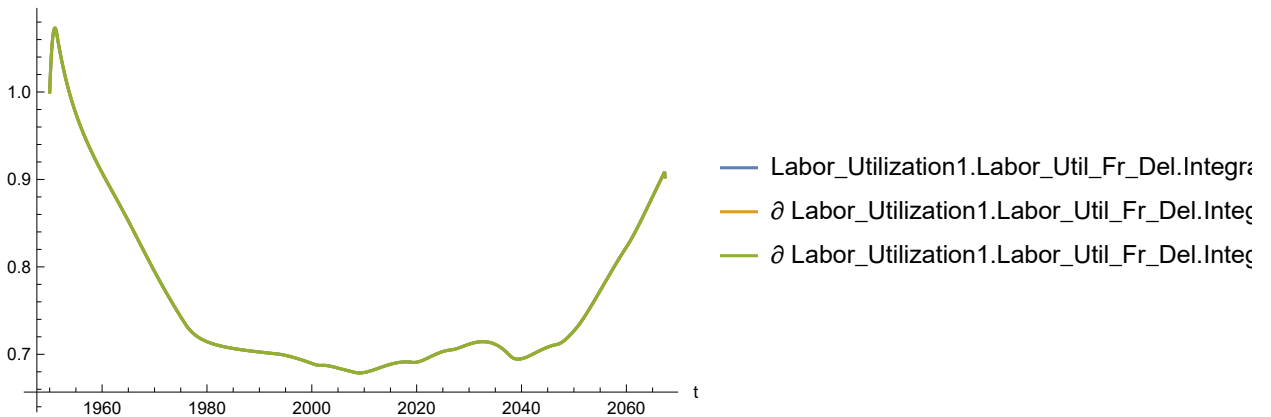
Out[163]=



In[164]:=

```
SystemModelPlot[simsensdata, {"Labor_Utilization1.Labor_Util_Fr_Del.Integrator1.y",
"Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[5]", percentvar}]
```

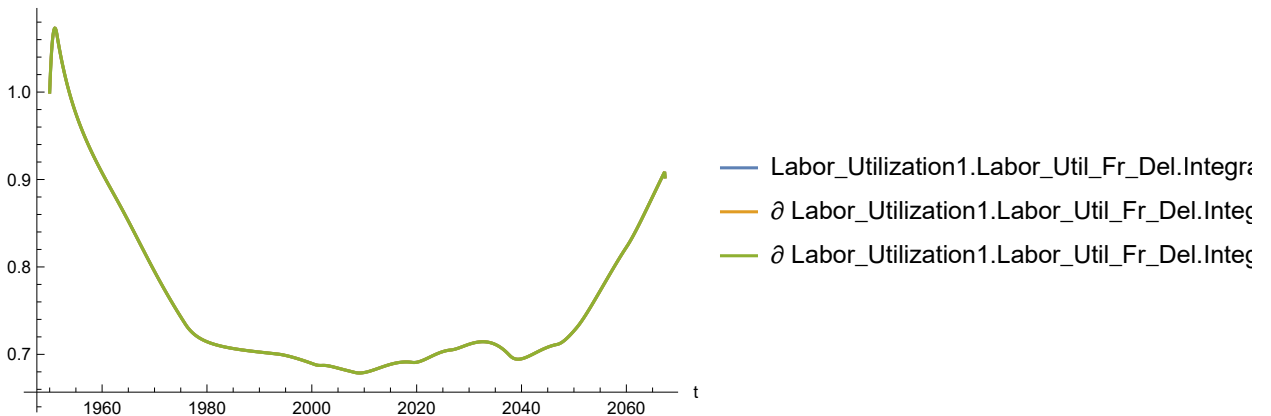
Out[164]=



In[165]:=

```
SystemModelPlot[simsensdata, {"Labor_Utilization1.Labor_Util_Fr_Del.Integrator1.y",
"Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[6]", percentvar}]
```

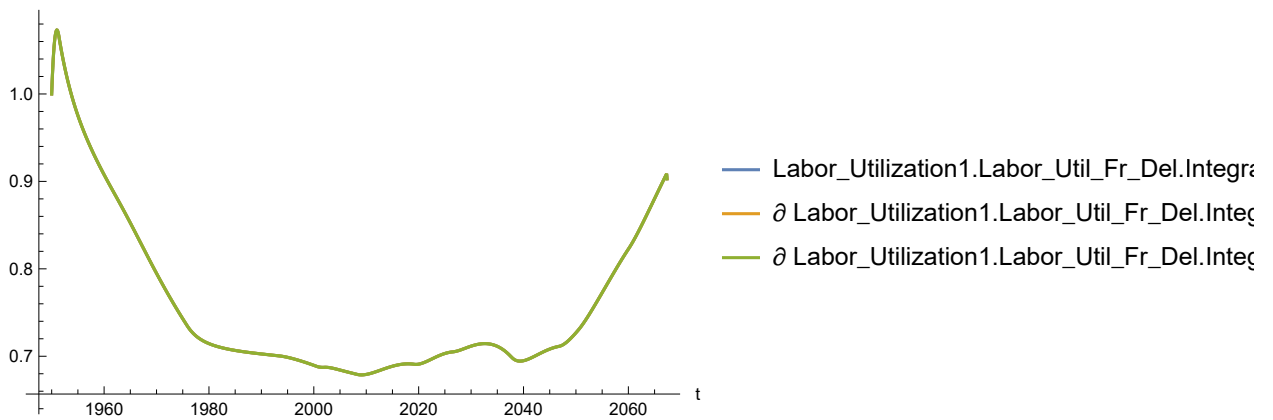
Out[165]=



In[166]:=

```
SystemModelPlot[simsensdata, {"Labor_Utilization1.Labor_Util_Fr_Del.Integrator1.y",
    "Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[7]", percentvar}]
```

Out[166]:=

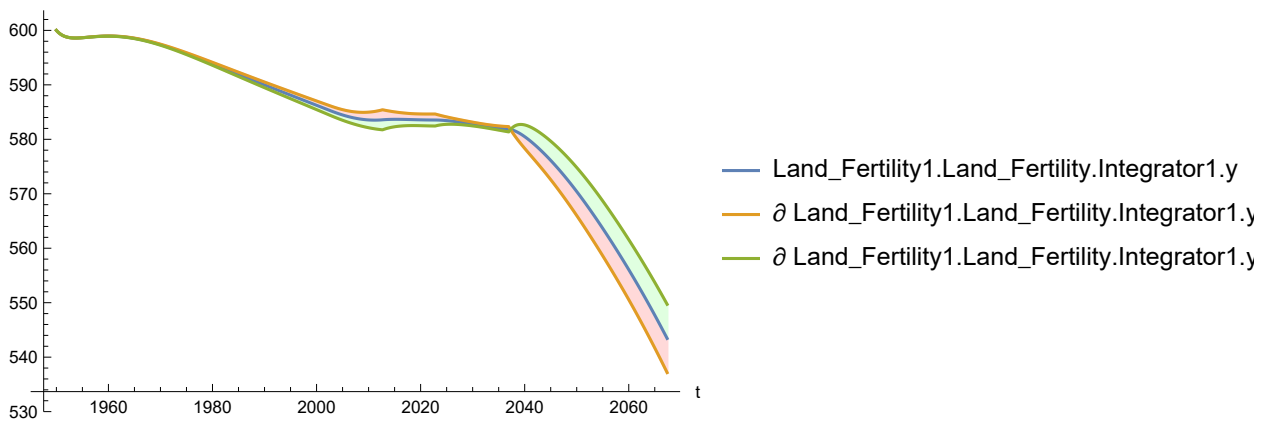


Plot the sensitivity of Land_Fertility1.Land_Fertility.Integrator1.y to Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals.

In[167]:=

```
SystemModelPlot[simsensdata, {"Land_Fertility1.Land_Fertility.Integrator1.y",
    "Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[1]", percentvar}]
```

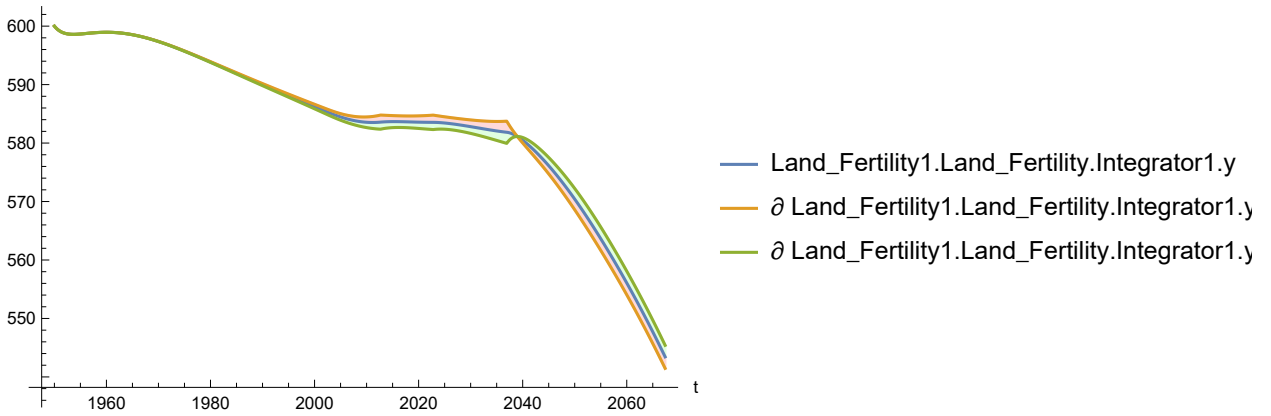
Out[167]:=



In[168]:=

```
SystemModelPlot[simsensdata, {"Land_Fertility1.Land_Fertility.Integrator1.y",
"Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[2]", percentvar}]
```

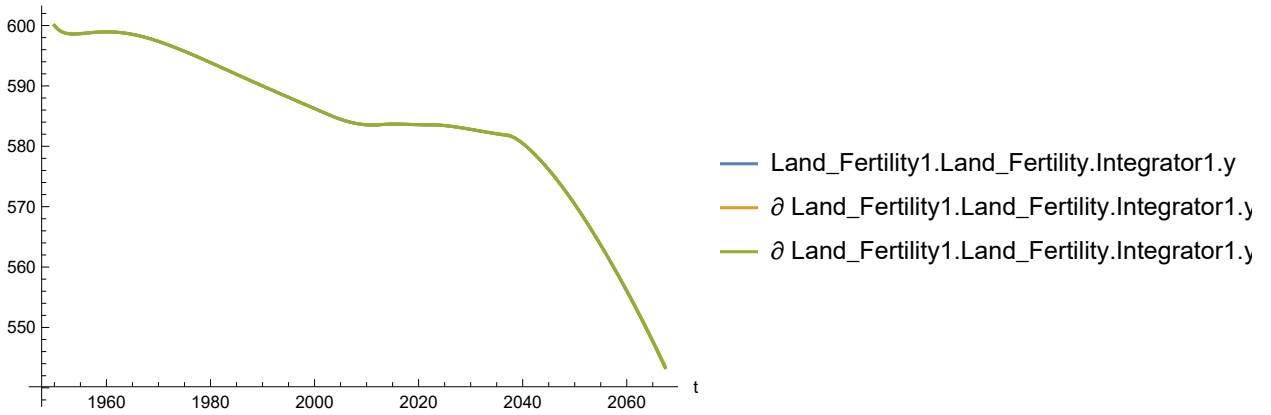
Out[168]:=



In[169]:=

```
SystemModelPlot[simsensdata, {"Land_Fertility1.Land_Fertility.Integrator1.y",
"Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[3]", percentvar}]
```

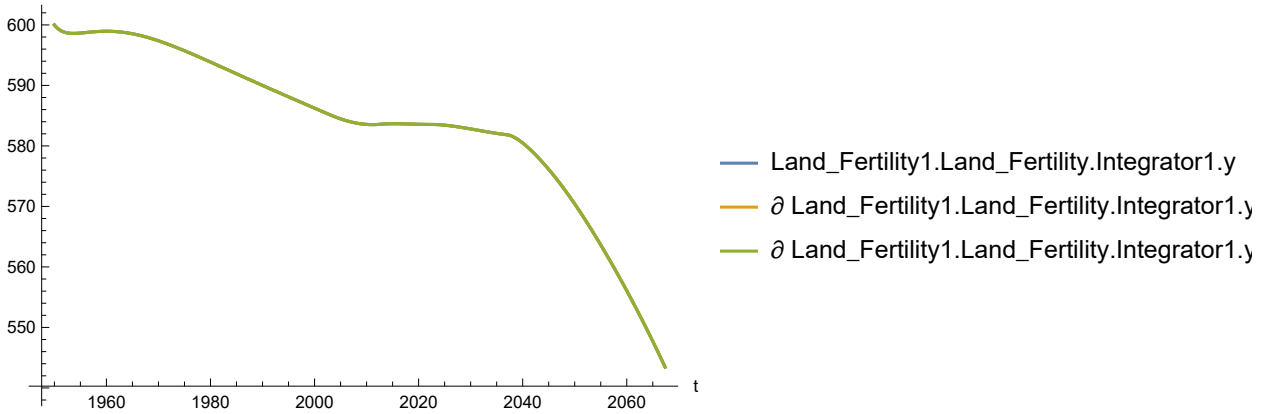
Out[169]:=



In[170]:=

```
SystemModelPlot[simsensdata, {"Land_Fertility1.Land_Fertility.Integrator1.y",
"Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[4]", percentvar}]
```

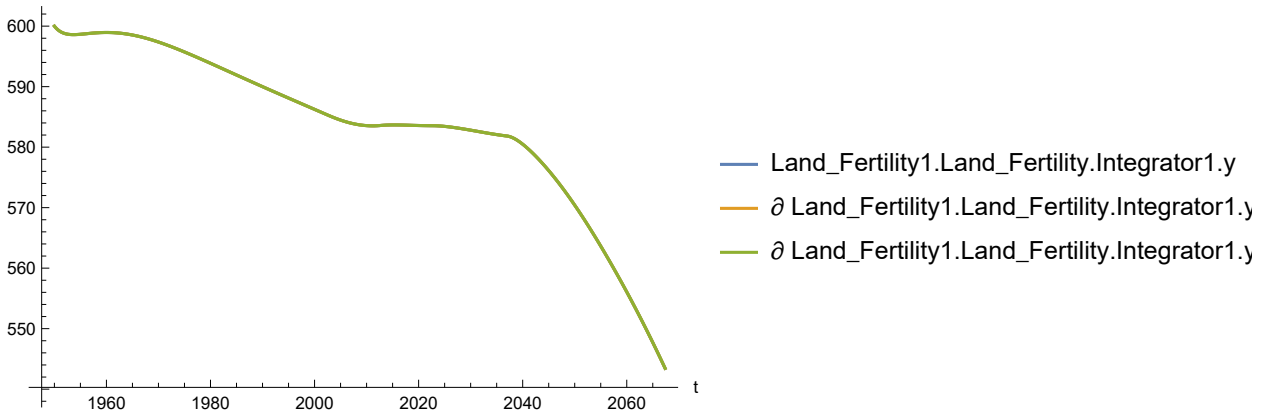
Out[170]:=



In[171]:=

```
SystemModelPlot[simsensdata, {"Land_Fertility1.Land_Fertility.Integrator1.y",
"Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[5]", percentvar}]
```

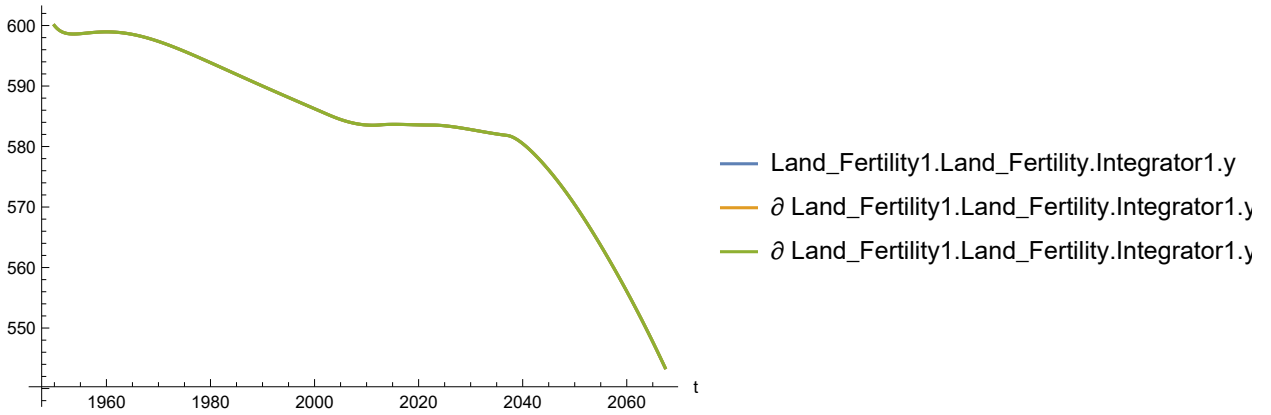
Out[171]=



In[172]:=

```
SystemModelPlot[simsensdata, {"Land_Fertility1.Land_Fertility.Integrator1.y",
"Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[6]", percentvar}]
```

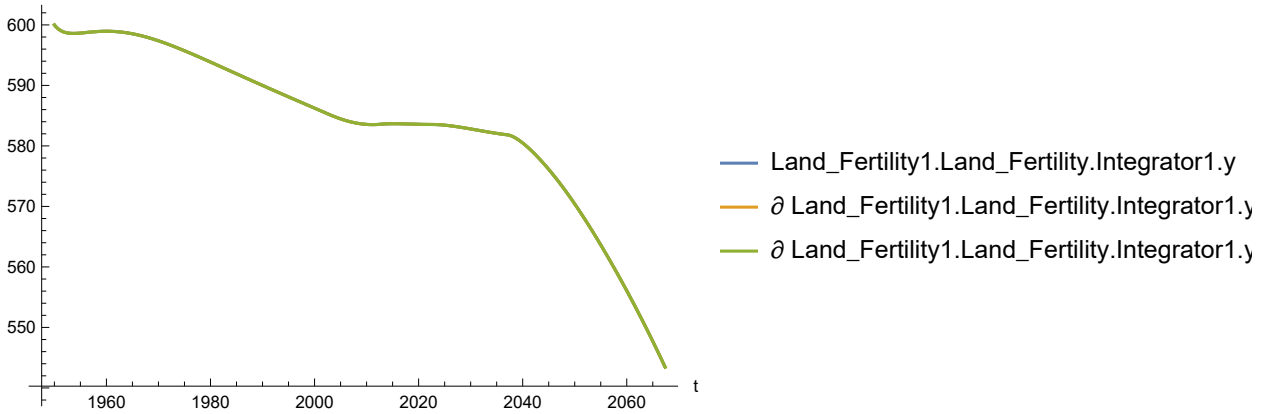
Out[172]=



In[173]:=

```
SystemModelPlot[simsensdata, {"Land_Fertility1.Land_Fertility.Integrator1.y",
"Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[7]", percentvar}]
```

Out[173]=

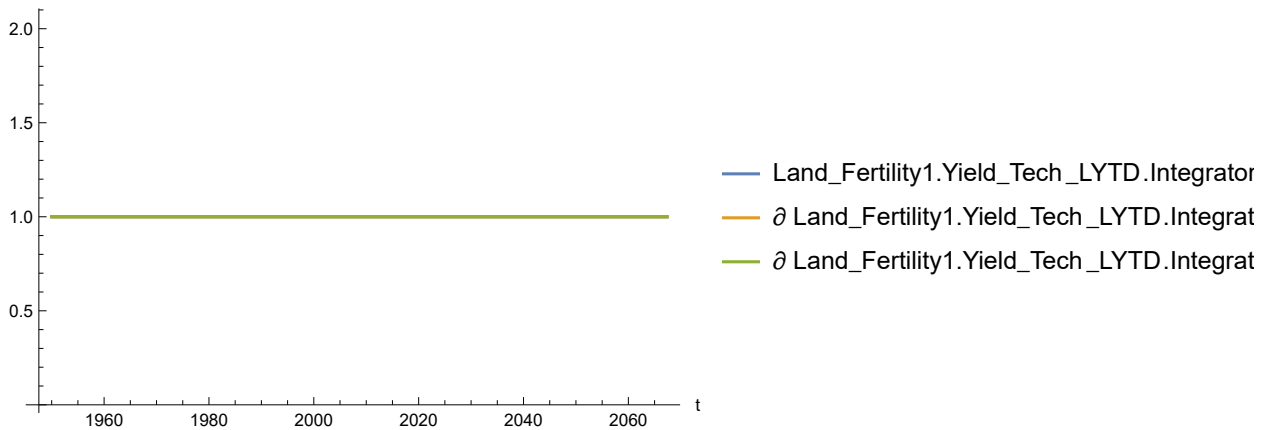


Plot the sensitivity of Land_Fertility1.Yield_Tech_LYTD.Integrator1.y to Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals.

In[174]:=

```
SystemModelPlot[simsensdata, {"Land_Fertility1.Yield_Tech_LYTD.Integrator1.y",
  "Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[1]", percentvar}]
```

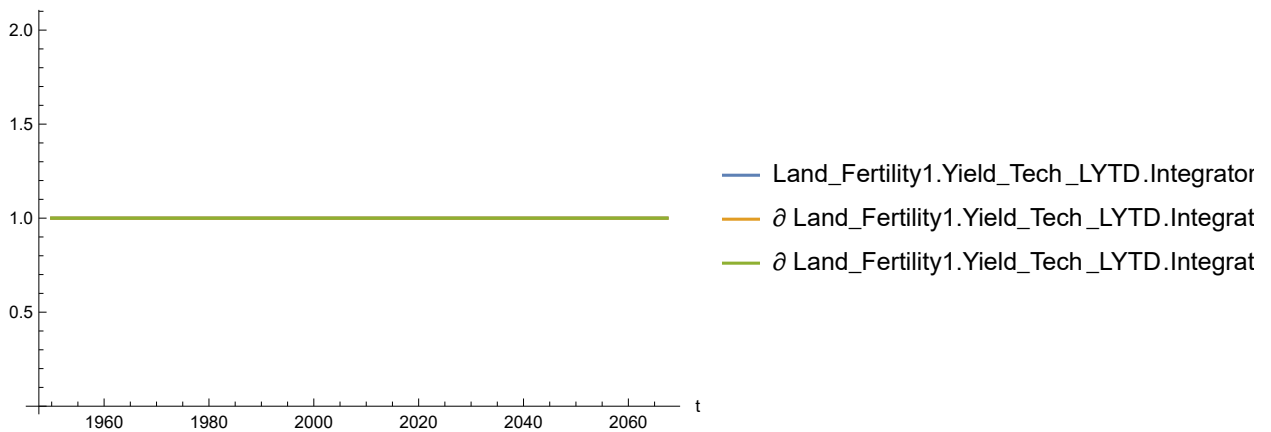
Out[174]=



In[175]:=

```
SystemModelPlot[simsensdata, {"Land_Fertility1.Yield_Tech_LYTD.Integrator1.y",
  "Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[2]", percentvar}]
```

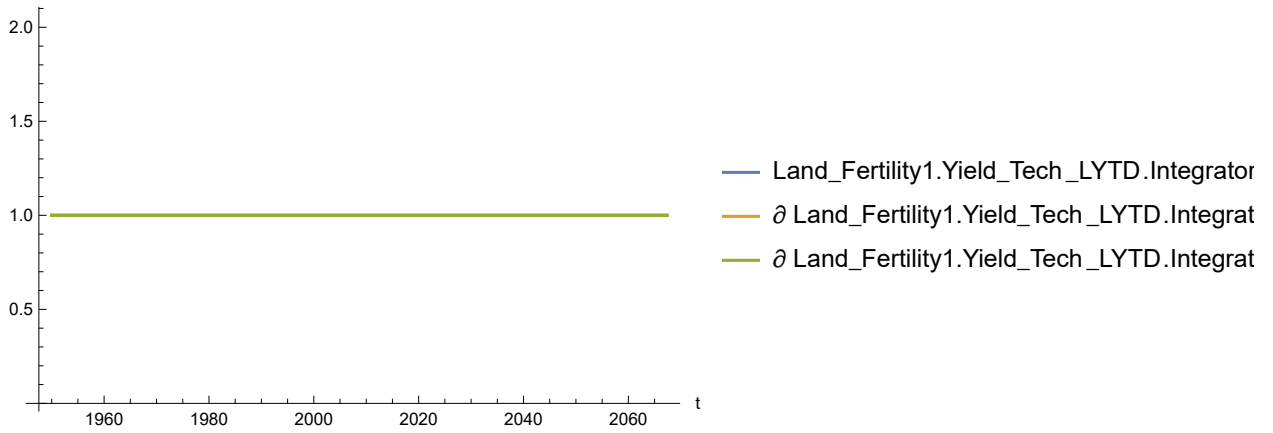
Out[175]=



In[176]:=

```
SystemModelPlot[simsensdata, {"Land_Fertility1.Yield_Tech_LYTD.Integrator1.y",
"Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[3]", percentvar}]
```

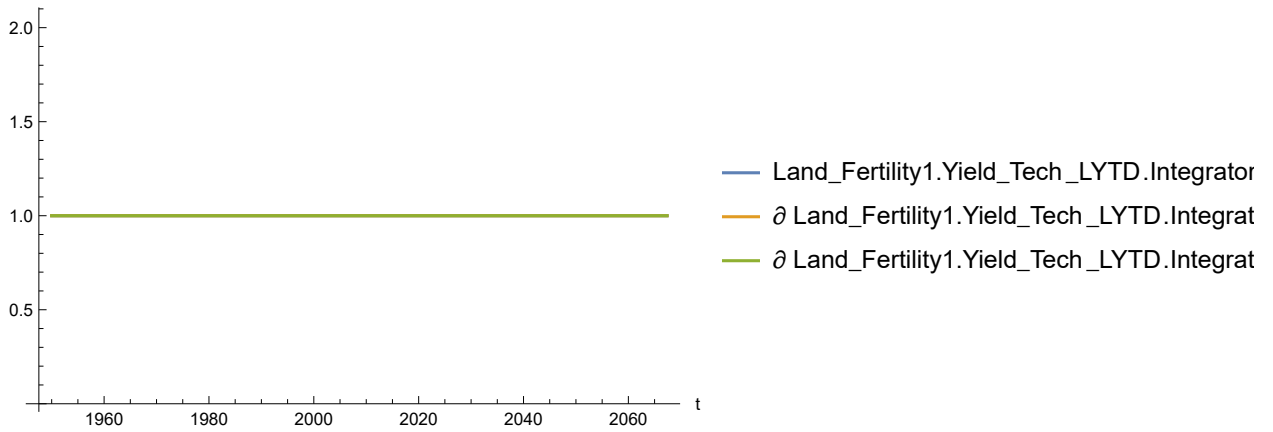
Out[176]=



In[177]:=

```
SystemModelPlot[simsensdata, {"Land_Fertility1.Yield_Tech_LYTD.Integrator1.y",
"Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[4]", percentvar}]
```

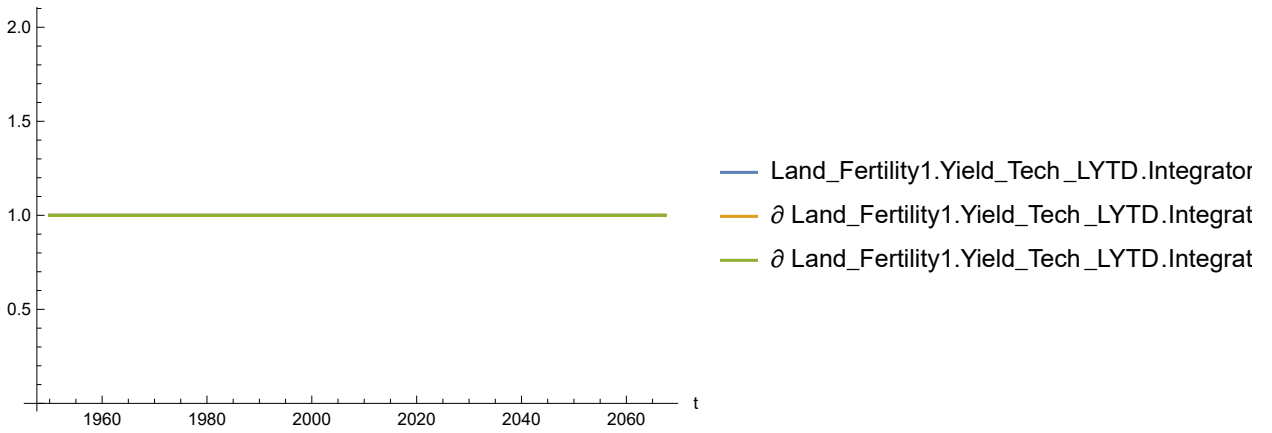
Out[177]=



In[178]:=

```
SystemModelPlot[simsensdata, {"Land_Fertility1.Yield_Tech_LYTD.Integrator1.y",
    "Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[5]", percentvar}]
```

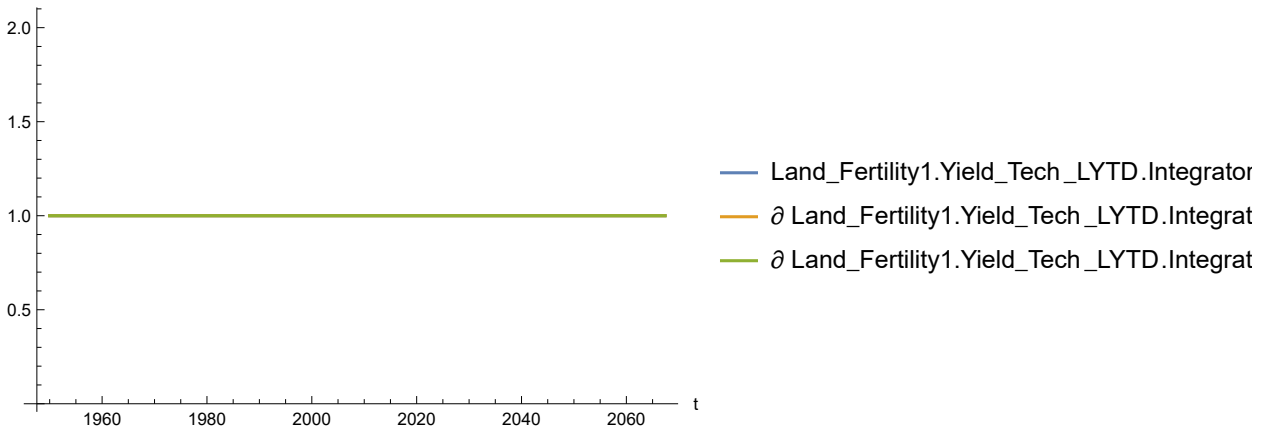
Out[178]=



In[179]:=

```
SystemModelPlot[simsensdata, {"Land_Fertility1.Yield_Tech_LYTD.Integrator1.y",
    "Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[6]", percentvar}]
```

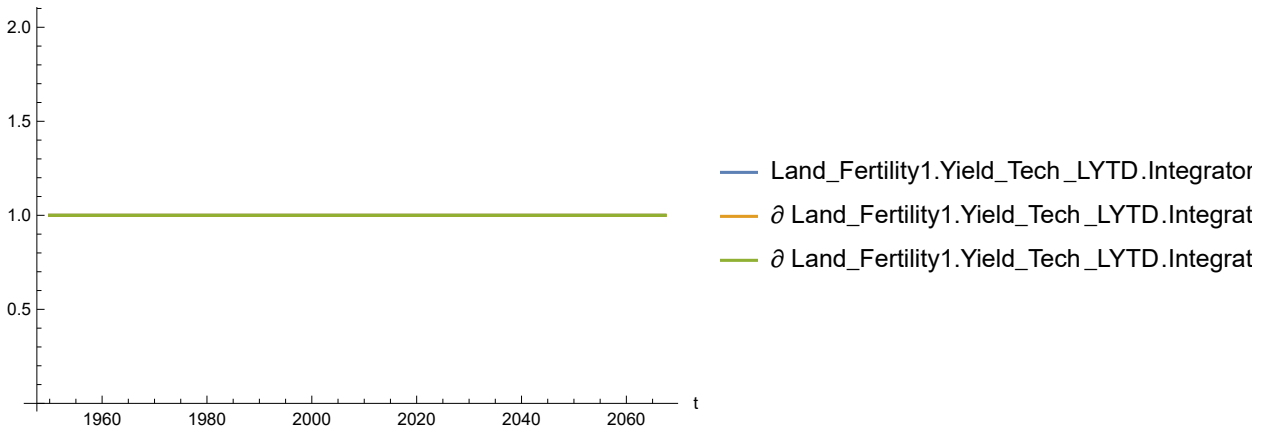
Out[179]=



In[180]:=

```
SystemModelPlot[simsensdata, {"Land_Fertility1.Yield_Tech_LYTD.Integrator1.y",
    "Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[7]", percentvar}]
```

Out[180]=

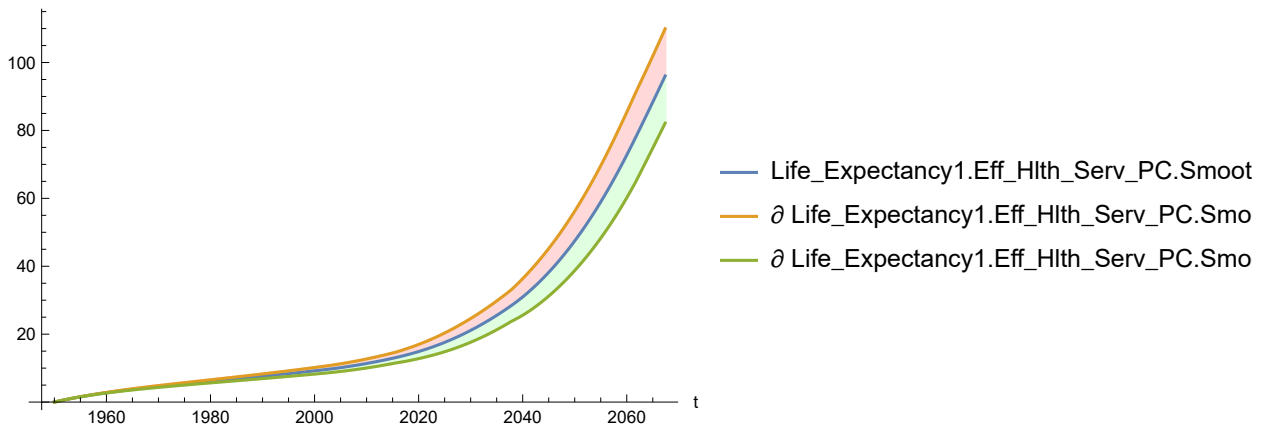


Plot the sensitivity of Life_Expectancy1.Eff_Hlth_Serv_PC.Smooth_of_Input.Integrator1.y to Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals.

In[181]:=

```
SystemModelPlot[simsensdata,
    {"Life_Expectancy1.Eff_Hlth_Serv_PC.Smooth_of_Input.Integrator1.y",
    "Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[1]", percentvar}]
```

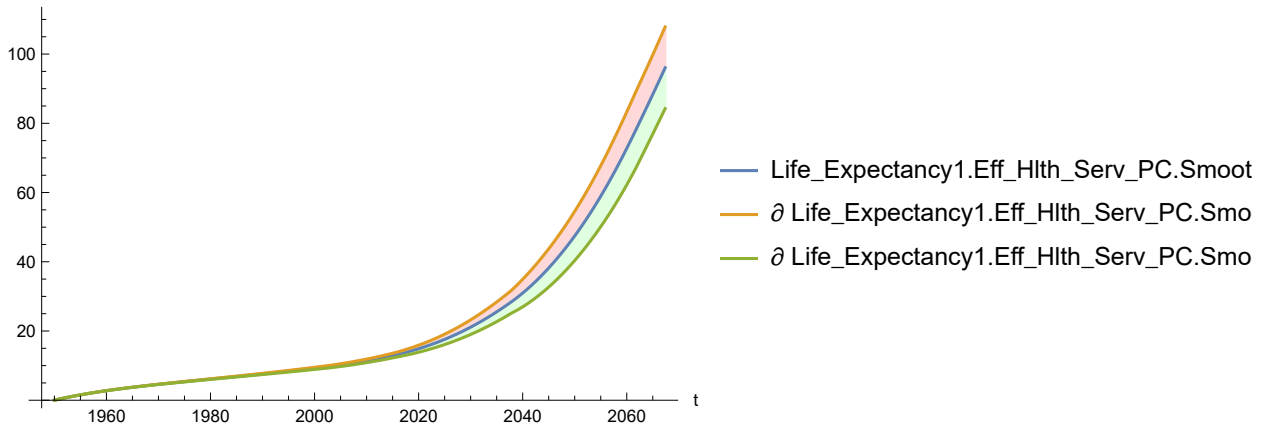
Out[181]=



In[182]:=

```
SystemModelPlot[simsensdata,
  {"Life_Expectancy1.Eff_Hlth_Serv_PC.Smooth_of_Input.Integrator1.y",
   "Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[2]", percentvar}]
```

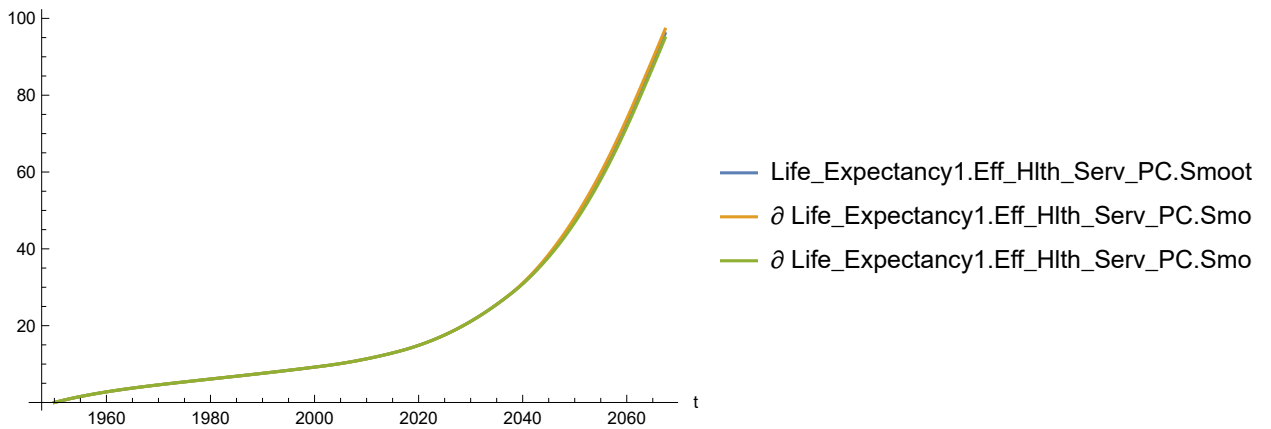
Out[182]=



In[183]:=

```
SystemModelPlot[simsensdata,
  {"Life_Expectancy1.Eff_Hlth_Serv_PC.Smooth_of_Input.Integrator1.y",
   "Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[3]", percentvar}]
```

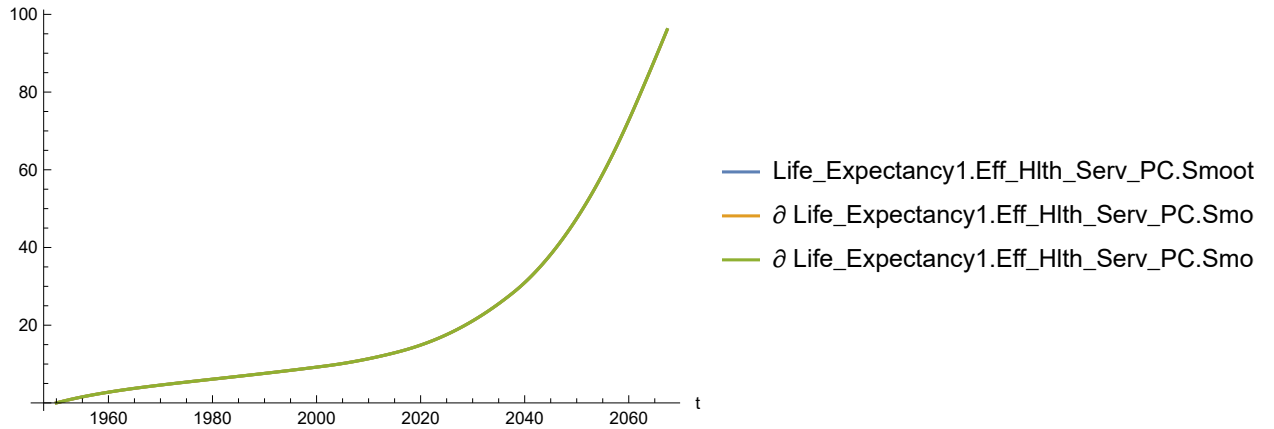
Out[183]=



In[184]:=

```
SystemModelPlot[simsensdata,
  {"Life_Expectancy1.Eff_Hlth_Serv_PC.Smooth_of_Input.Integrator1.y",
   "Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[4]", percentvar}]
```

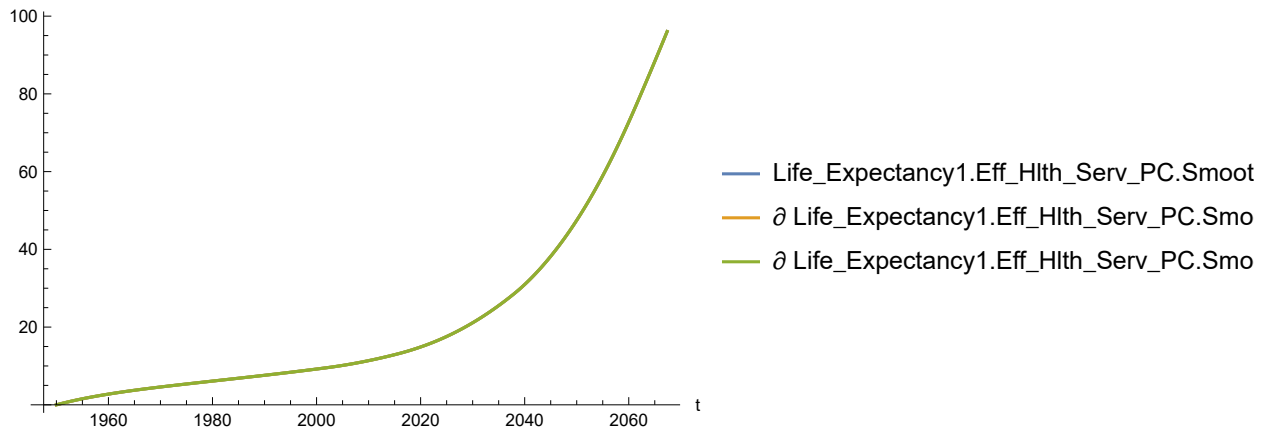
Out[184]=



In[185]:=

```
SystemModelPlot[simsensdata,
  {"Life_Expectancy1.Eff_Hlth_Serv_PC.Smooth_of_Input.Integrator1.y",
   "Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[5]", percentvar}]
```

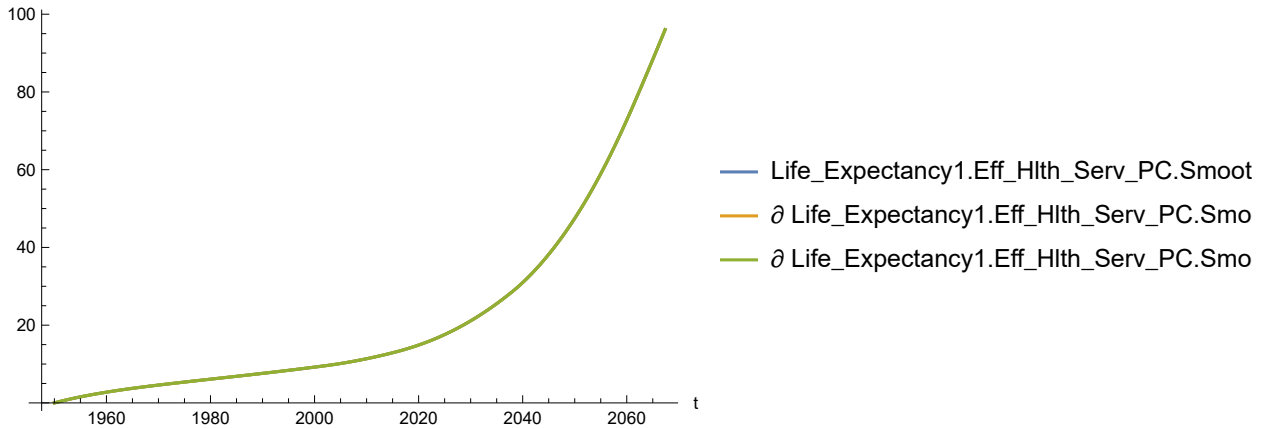
Out[185]=



In[186]:=

```
SystemModelPlot[simsensdata,
  {"Life_Expectancy1.Eff_Hlth_Serv_PC.Smooth_of_Input.Integrator1.y",
   "Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[6]", percentvar}]
```

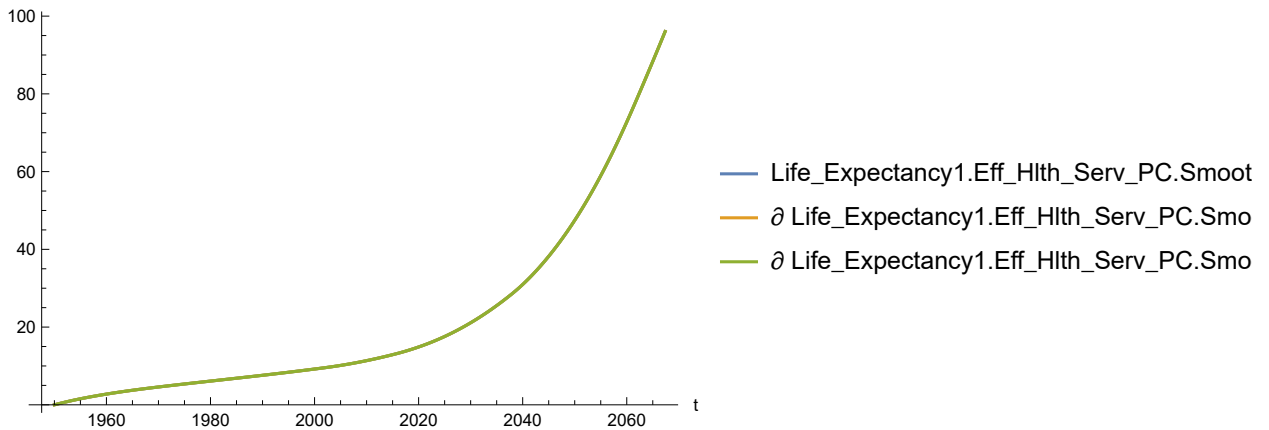
Out[186]=



In[187]:=

```
SystemModelPlot[simsensdata,
  {"Life_Expectancy1.Eff_Hlth_Serv_PC.Smooth_of_Input.Integrator1.y",
   "Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[7]", percentvar}]
```

Out[187]=

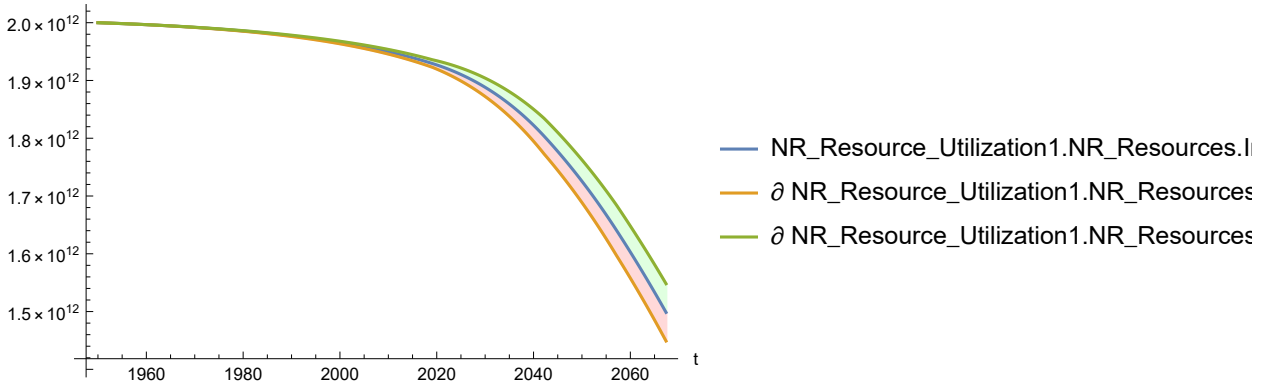


Plot the sensitivity of `NR_Resource_Utilization1.NR_Resources.Integrator1.y` to `Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals`.

In[188]:=

```
SystemModelPlot[simsensdata, {"NR_Resource_Utilization1.NR_Resources.Integrator1.y",
"Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[1]", percentvar}]
```

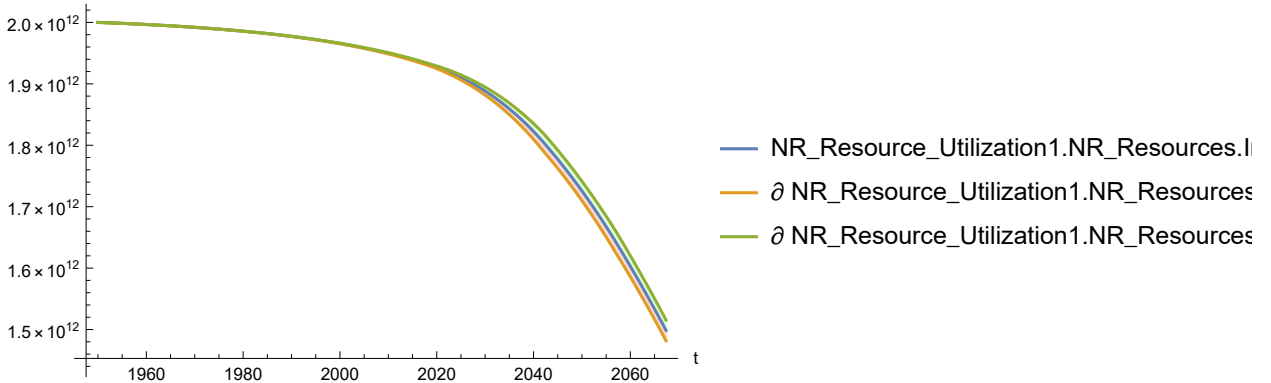
Out[188]=



In[189]:=

```
SystemModelPlot[simsensdata, {"NR_Resource_Utilization1.NR_Resources.Integrator1.y",
"Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[2]", percentvar}]
```

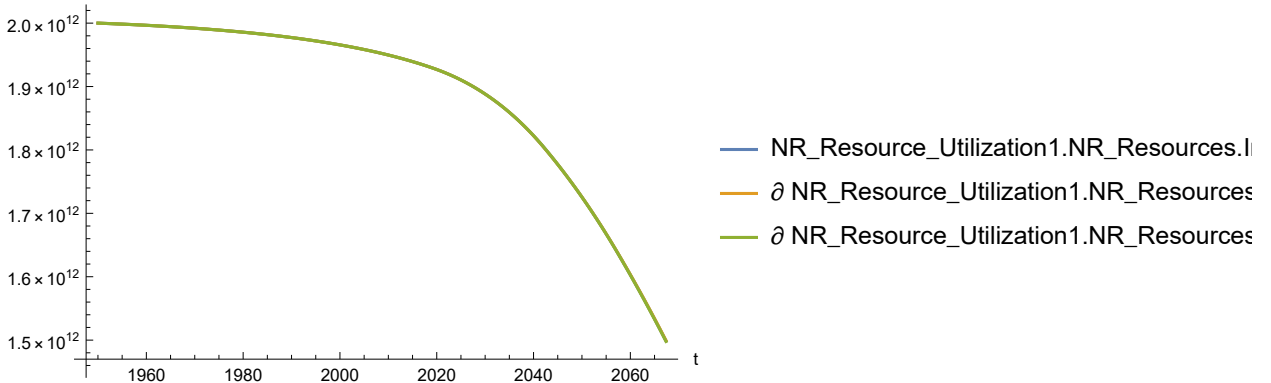
Out[189]=



In[190]:=

```
SystemModelPlot[simsensdata, {"NR_Resource_Utilization1.NR_Resources.Integrator1.y",
"Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[3]", percentvar}]
```

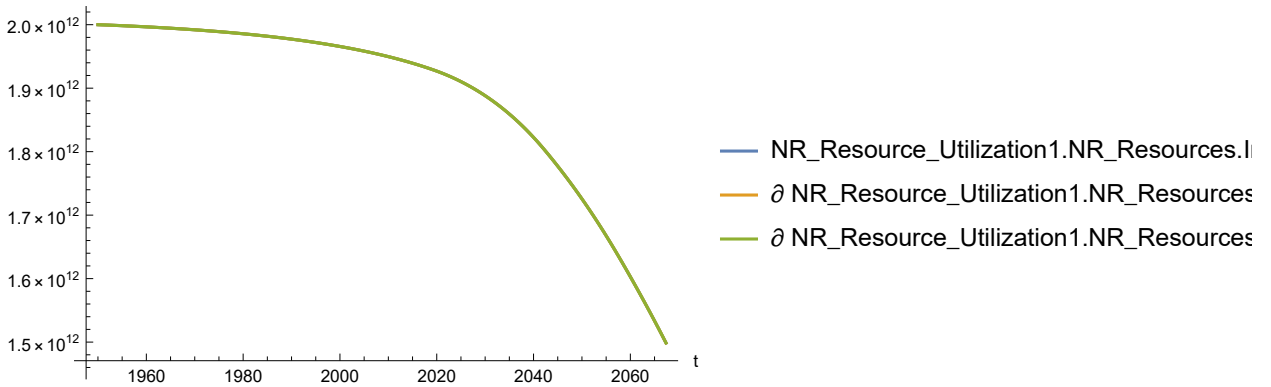
Out[190]=



In[191]:=

```
SystemModelPlot[simsensdata, {"NR_Resource_Utilization1.NR_Resources.Integrator1.y",
"Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[4]", percentvar}]
```

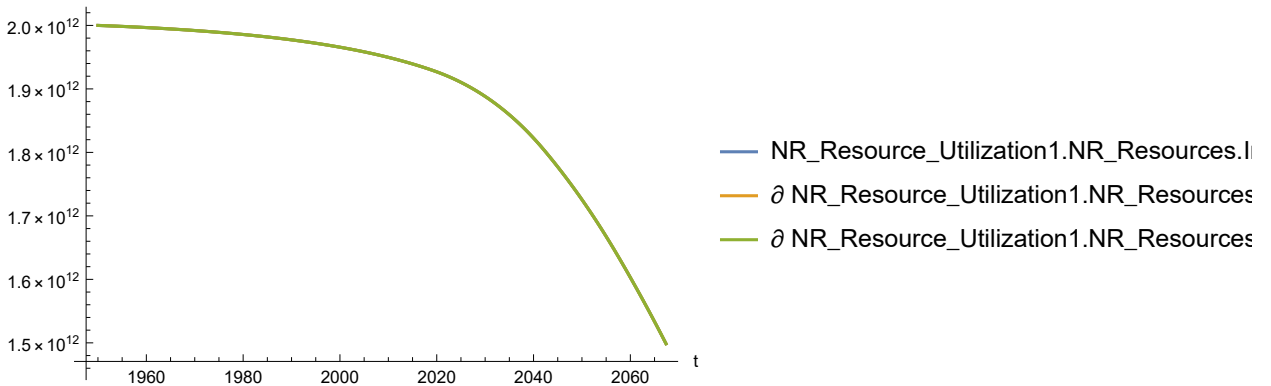
Out[191]=



In[192]:=

```
SystemModelPlot[simsensdata, {"NR_Resource_Utilization1.NR_Resources.Integrator1.y",
"Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[5]", percentvar}]
```

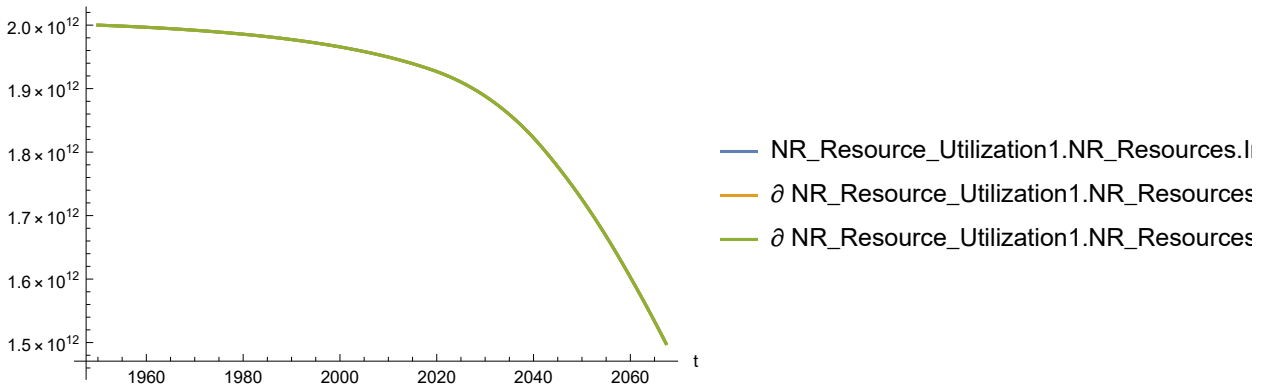
Out[192]=



In[193]:=

```
SystemModelPlot[simsensdata, {"NR_Resource_Utilization1.NR_Resources.Integrator1.y",
"Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[6]", percentvar}]
```

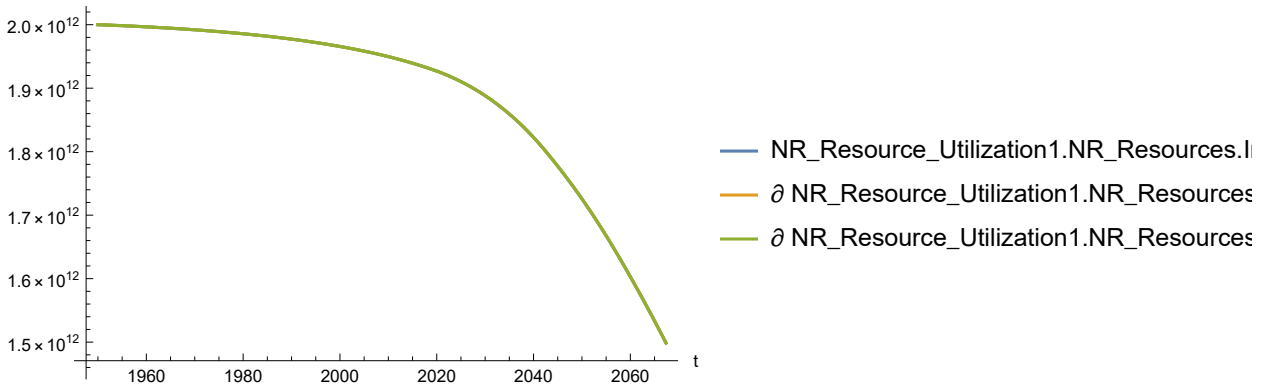
Out[193]=



In[194]:=

```
SystemModelPlot[simsensdata, {"NR_Resource_Utilization1.NR_Resources.Integrator1.y",
"Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[7]", percentvar}]
```

Out[194]=

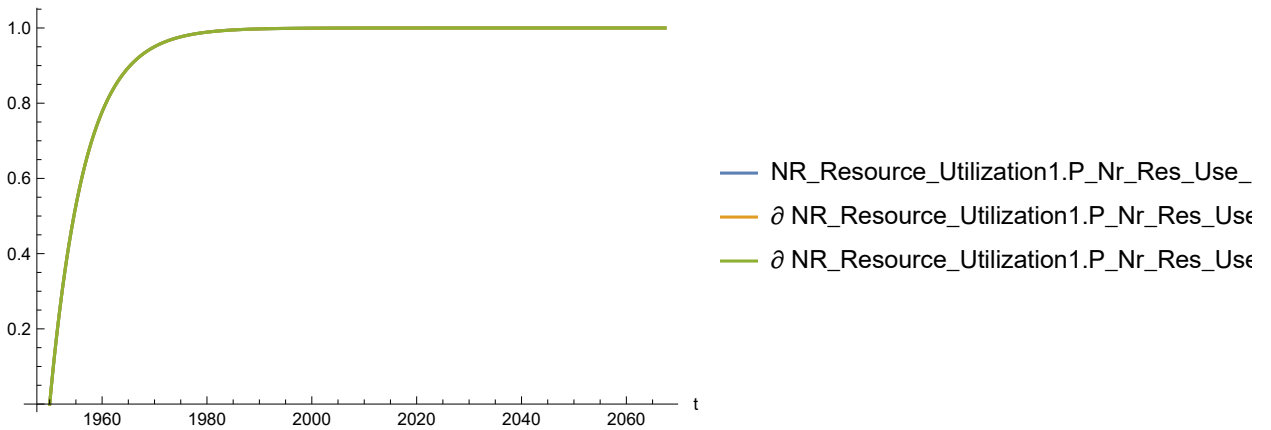


Plot the sensitivity of NR_Resource_Utilization1.P_Nr_Res_Use_Fact_2.Smooth1.Integrator1.y to Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals.

In[195]:=

```
SystemModelPlot[simsensdata,
{"NR_Resource_Utilization1.P_Nr_Res_Use_Fact_2.Smooth1.Integrator1.y",
"Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[1]", percentvar}]
```

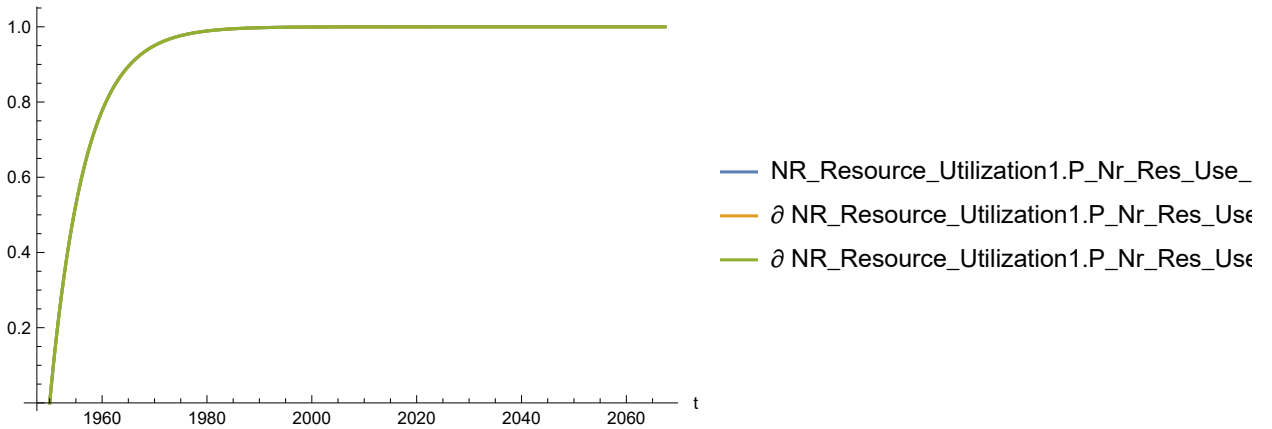
Out[195]=



In[196]:=

```
SystemModelPlot[simsensdata,
  {"NR_Resource_Utilization1.P_Nr_Res_Use_Fact_2.Smooth1.Integrator1.y",
   "Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[2]", percentvar}]
```

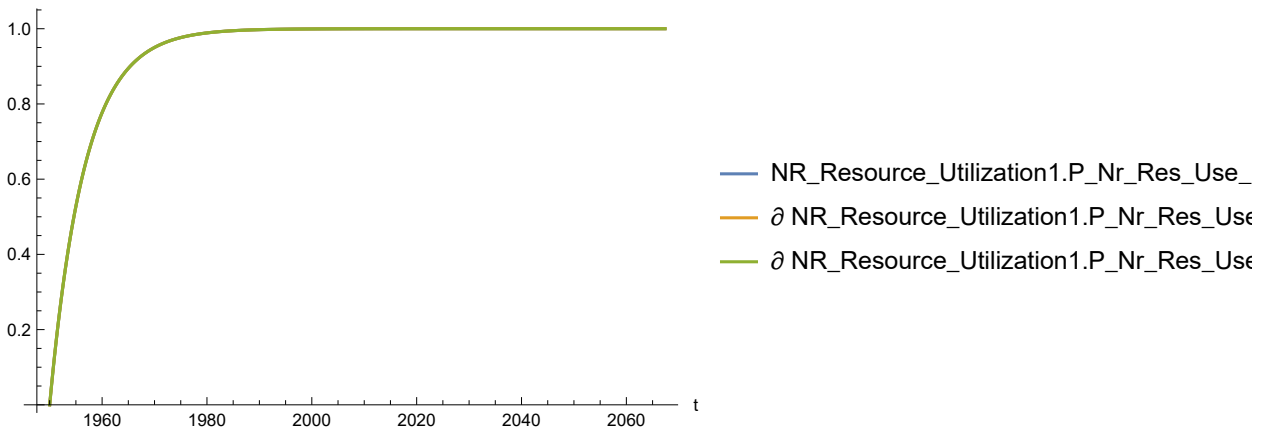
Out[196]=



In[197]:=

```
SystemModelPlot[simsensdata,
  {"NR_Resource_Utilization1.P_Nr_Res_Use_Fact_2.Smooth1.Integrator1.y",
   "Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[3]", percentvar}]
```

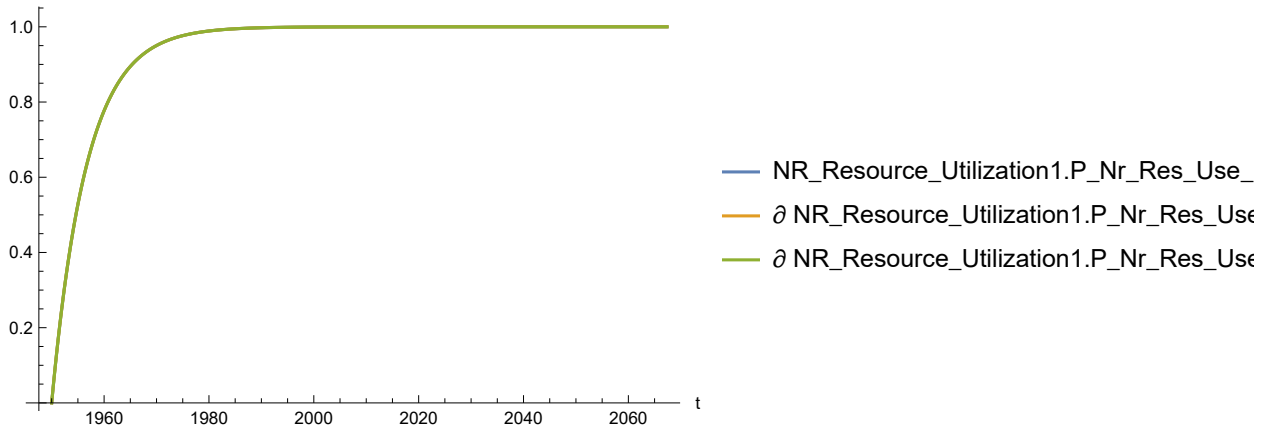
Out[197]=



In[198]:=

```
SystemModelPlot[simsensdata,
  {"NR_Resource_Utilization1.P_Nr_Res_Use_Fact_2.Smooth1.Integrator1.y",
   "Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[4]", percentvar}]
```

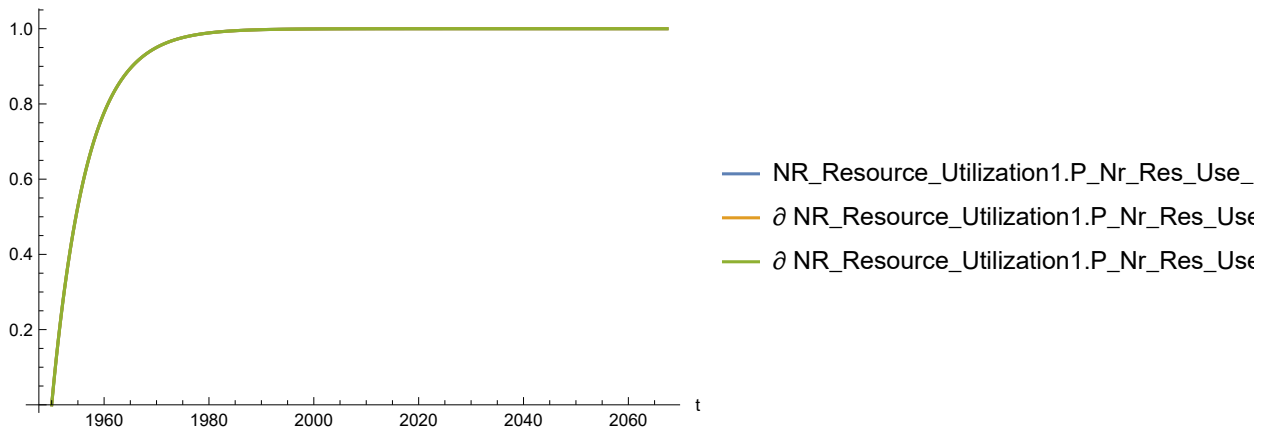
Out[198]=



In[199]:=

```
SystemModelPlot[simsensdata,
  {"NR_Resource_Utilization1.P_Nr_Res_Use_Fact_2.Smooth1.Integrator1.y",
   "Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[5]", percentvar}]
```

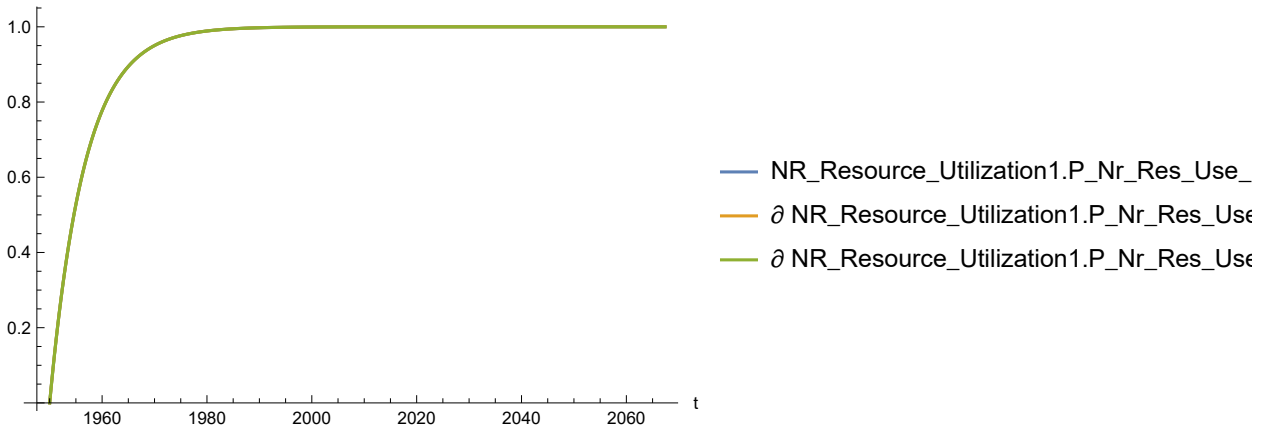
Out[199]=



In[200]:=

```
SystemModelPlot[simsensdata,
  {"NR_Resource_Utilization1.P_Nr_Res_Use_Fact_2.Smooth1.Integrator1.y",
   "Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[6]", percentvar}]
```

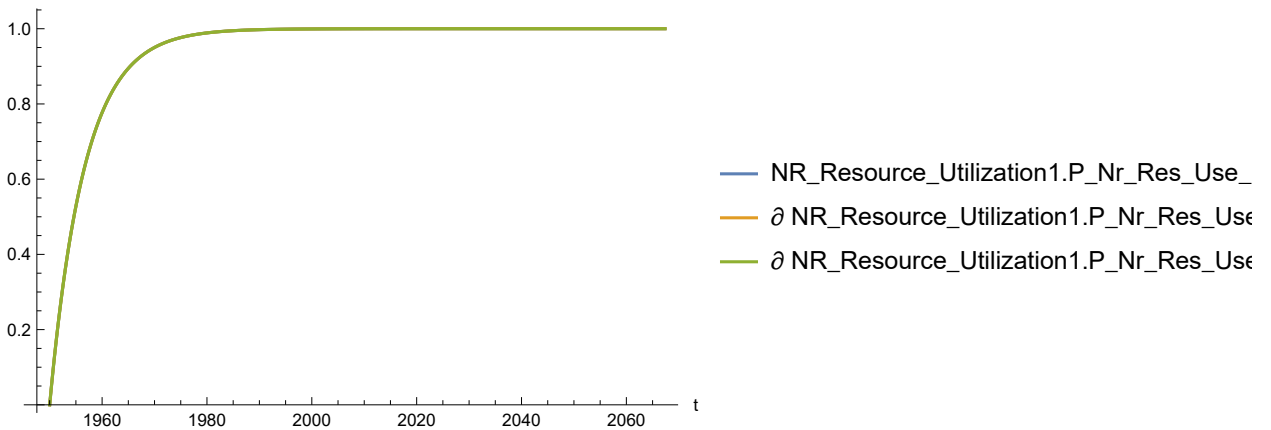
Out[200]=



In[201]:=

```
SystemModelPlot[simsensdata,
  {"NR_Resource_Utilization1.P_Nr_Res_Use_Fact_2.Smooth1.Integrator1.y",
   "Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[7]", percentvar}]
```

Out[201]=

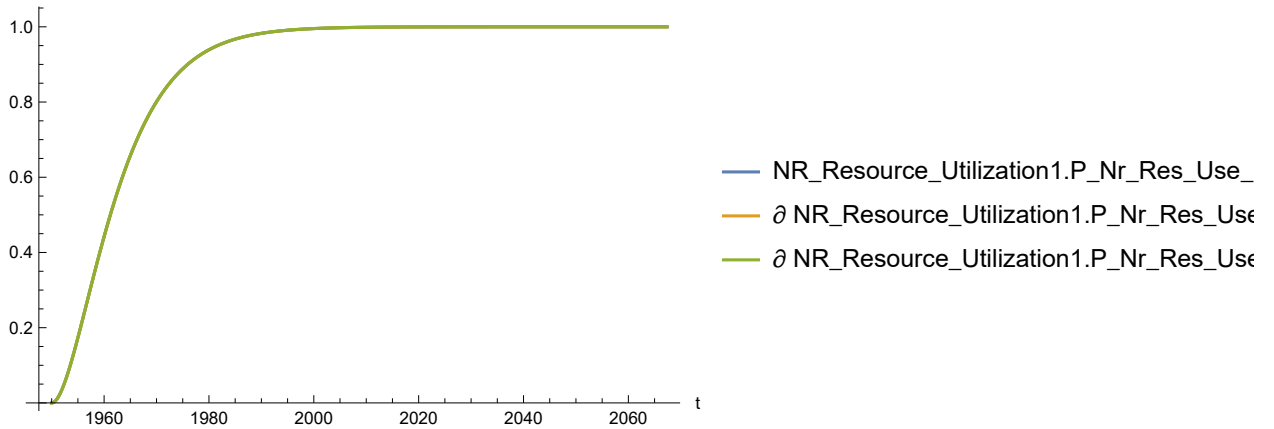


Plot the sensitivity of NR_Resource_Utilization1.P_Nr_Res_Use_Fact_2.Smooth2.Integrator1.y to Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals.

In[202]:=

```
SystemModelPlot[simsensdata,
  {"NR_Resource_Utilization1.P_Nr_Res_Use_Fact_2.Smooth2.Integrator1.y",
   "Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[1]", percentvar}]
```

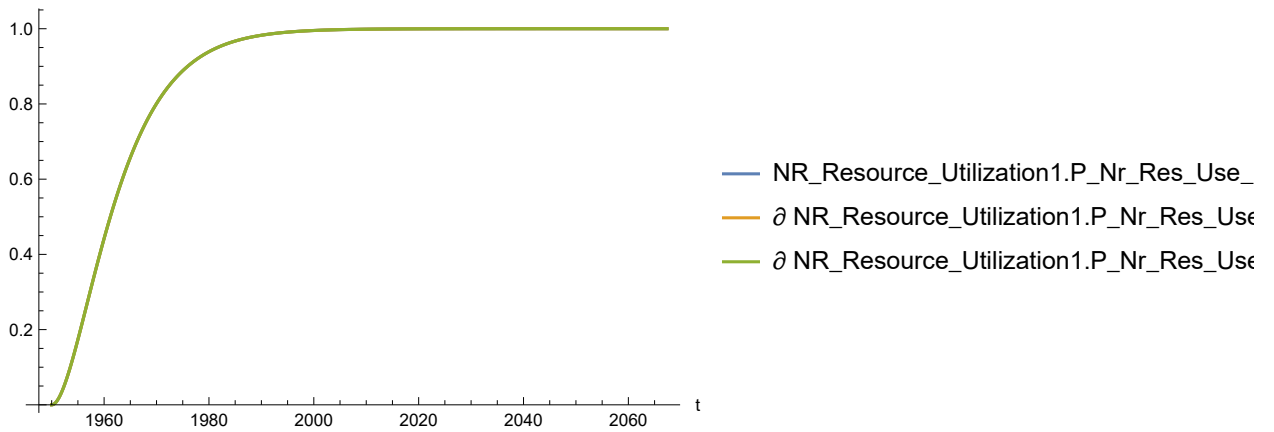
Out[202]=



In[203]:=

```
SystemModelPlot[simsensdata,
  {"NR_Resource_Utilization1.P_Nr_Res_Use_Fact_2.Smooth2.Integrator1.y",
   "Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[2]", percentvar}]
```

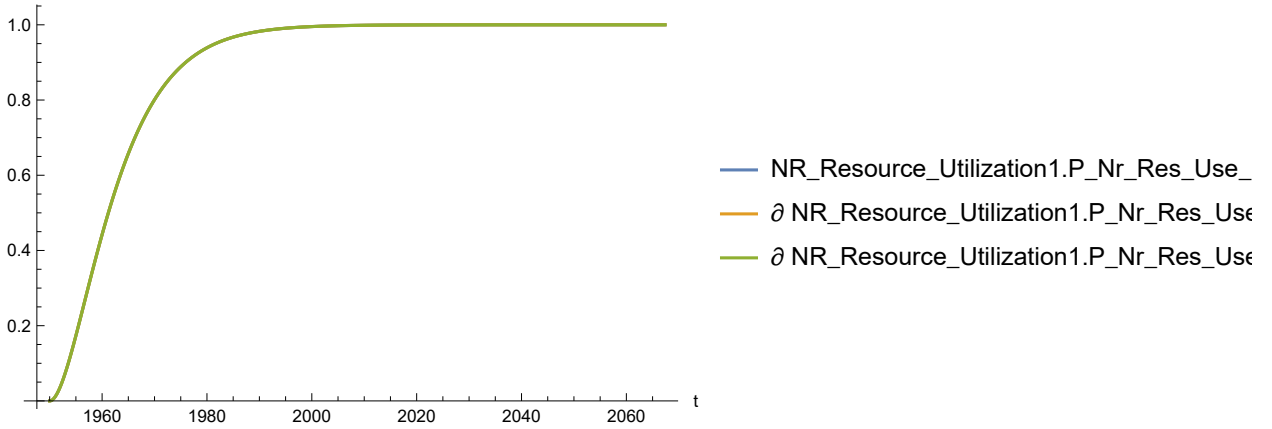
Out[203]=



In[204]:=

```
SystemModelPlot[simsensdata,
  {"NR_Resource_Utilization1.P_Nr_Res_Use_Fact_2.Smooth2.Integrator1.y",
   "Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[3]", percentvar}]
```

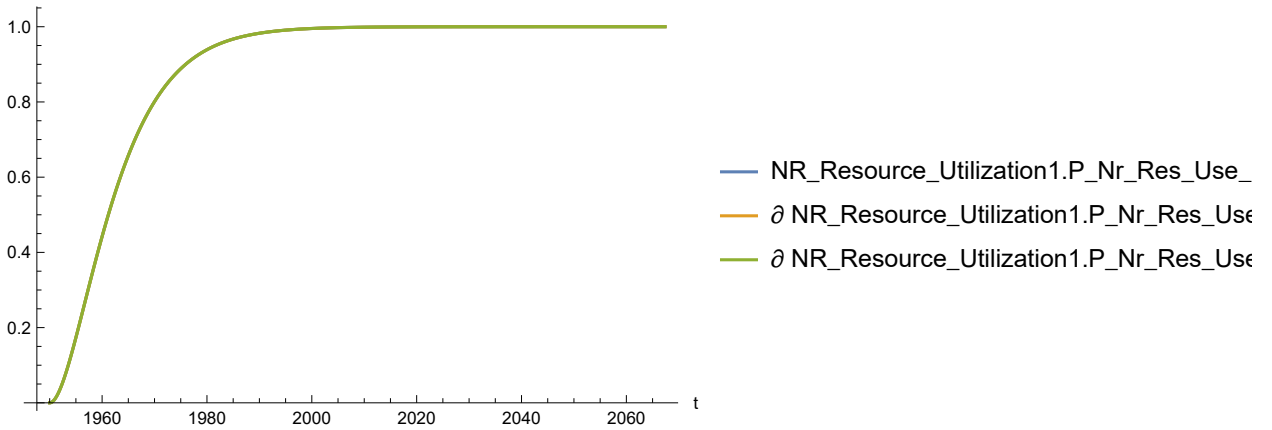
Out[204]=



In[205]:=

```
SystemModelPlot[simsensdata,
  {"NR_Resource_Utilization1.P_Nr_Res_Use_Fact_2.Smooth2.Integrator1.y",
   "Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[4]", percentvar}]
```

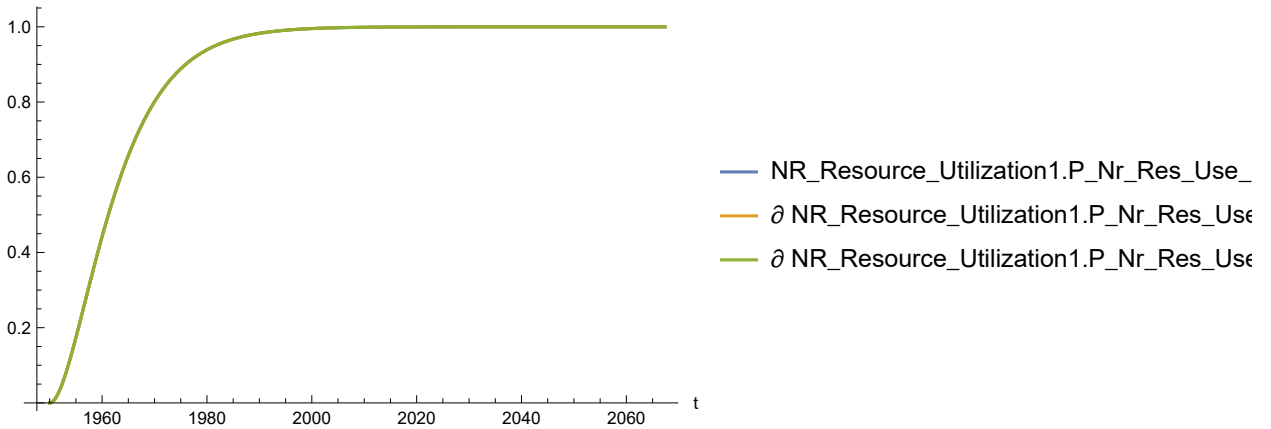
Out[205]=



In[206]:=

```
SystemModelPlot[simsensdata,
  {"NR_Resource_Utilization1.P_Nr_Res_Use_Fact_2.Smooth2.Integrator1.y",
   "Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[5]", percentvar}]
```

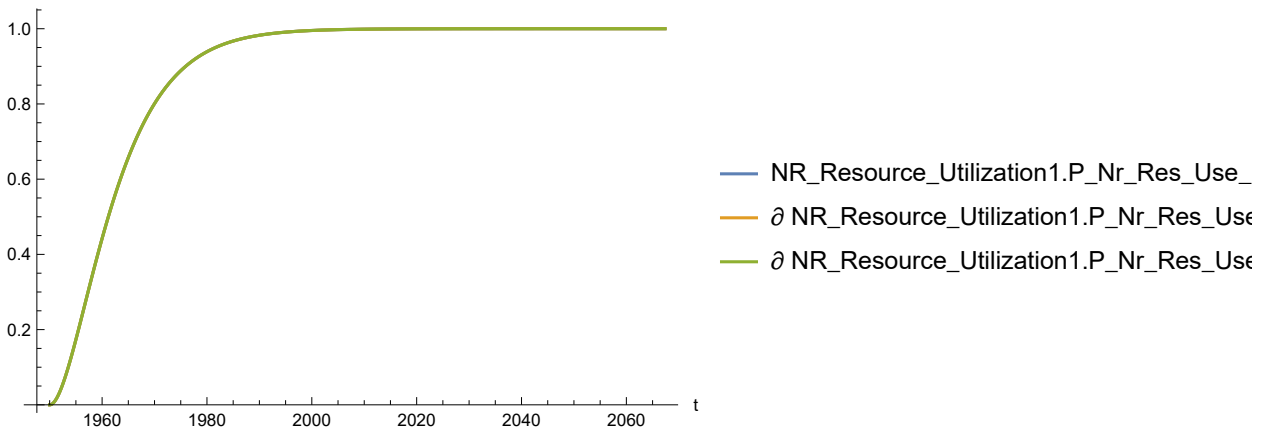
Out[206]=



In[207]:=

```
SystemModelPlot[simsensdata,
  {"NR_Resource_Utilization1.P_Nr_Res_Use_Fact_2.Smooth2.Integrator1.y",
   "Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[6]", percentvar}]
```

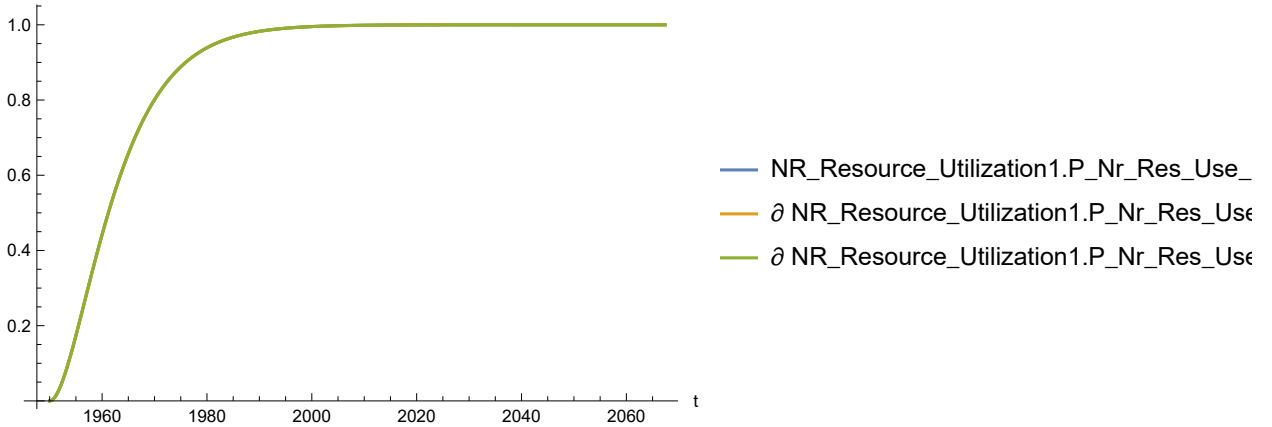
Out[207]=



In[208]:=

```
SystemModelPlot[simsensdata,
  {"NR_Resource_Utilization1.P_Nr_Res_Use_Fact_2.Smooth2.Integrator1.y",
   "Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[7]", percentvar}]
```

Out[208]=

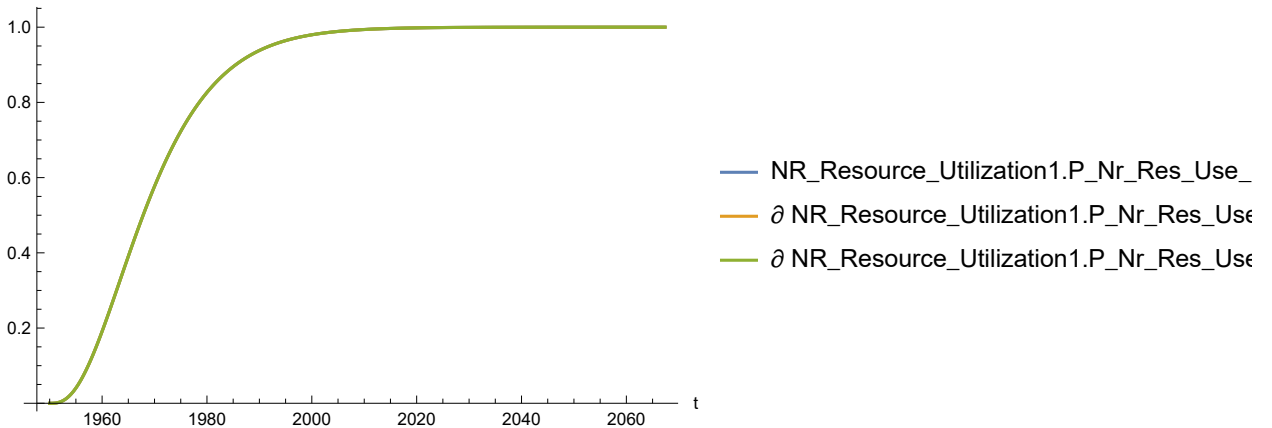


Plot the sensitivity of NR_Resource_Utilization1.P_Nr_Res_Use_Fact_2.Smooth3.Integrator1.y to Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals.

In[209]:=

```
SystemModelPlot[simsensdata,
  {"NR_Resource_Utilization1.P_Nr_Res_Use_Fact_2.Smooth3.Integrator1.y",
   "Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[1]", percentvar}]
```

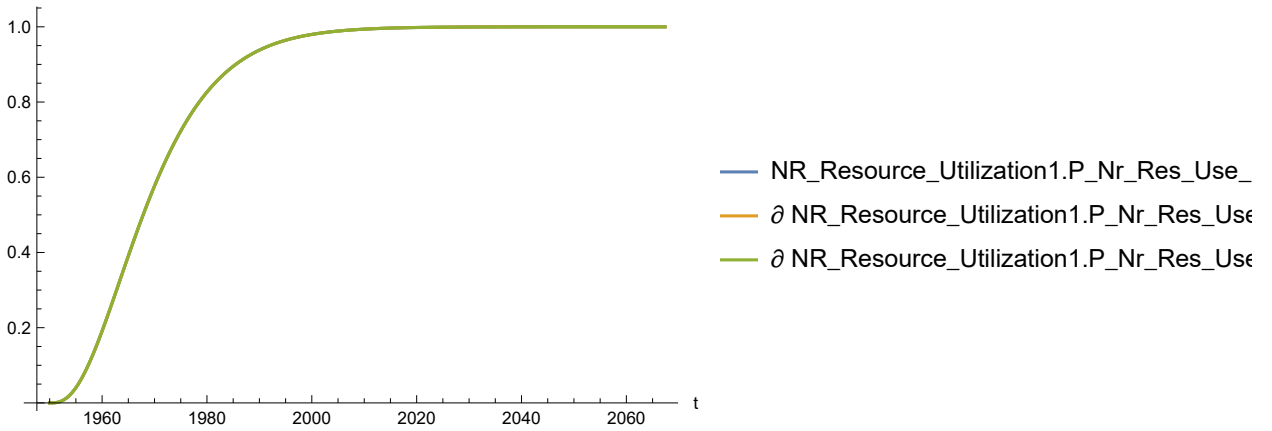
Out[209]=



In[210]:=

```
SystemModelPlot[simsensdata,
  {"NR_Resource_Utilization1.P_Nr_Res_Use_Fact_2.Smooth3.Integrator1.y",
   "Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[2]", percentvar}]
```

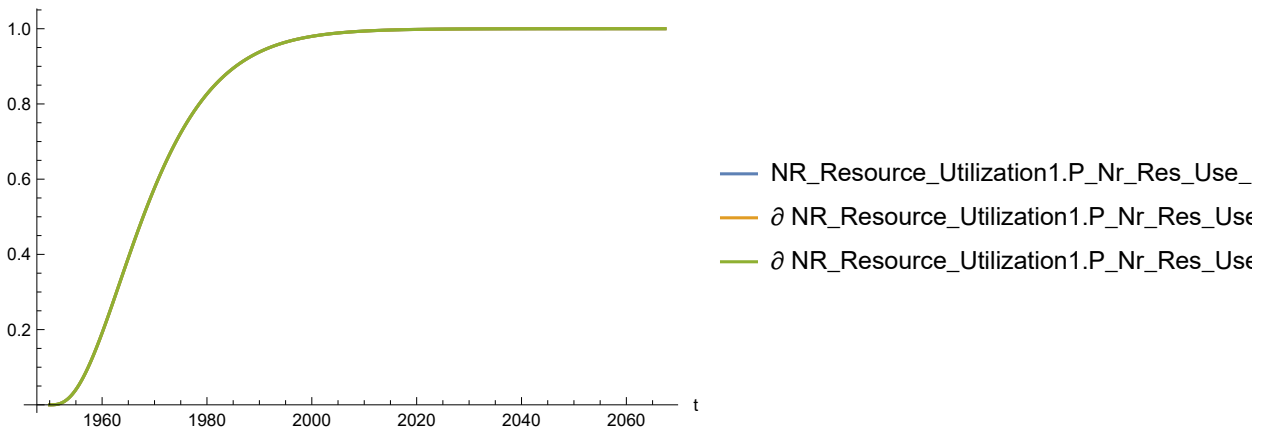
Out[210]=



In[211]:=

```
SystemModelPlot[simsensdata,
  {"NR_Resource_Utilization1.P_Nr_Res_Use_Fact_2.Smooth3.Integrator1.y",
   "Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[3]", percentvar}]
```

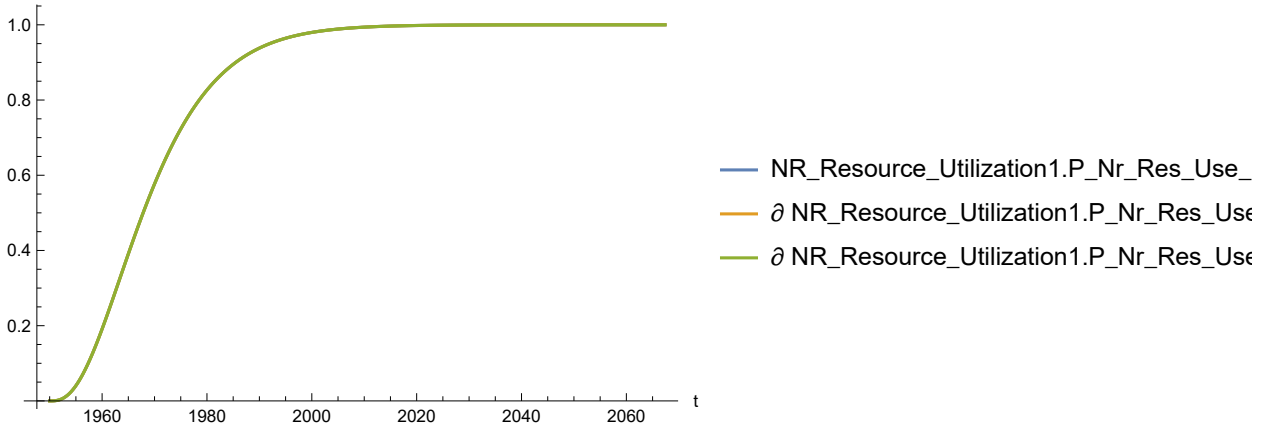
Out[211]=



In[212]:=

```
SystemModelPlot[simsensdata,
  {"NR_Resource_Utilization1.P_Nr_Res_Use_Fact_2.Smooth3.Integrator1.y",
   "Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[4]", percentvar}]
```

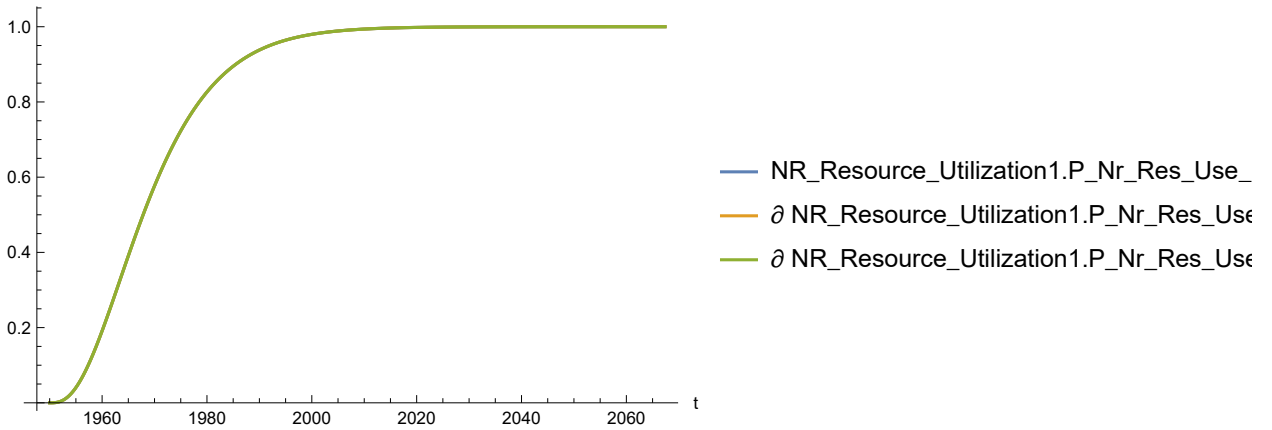
Out[212]=



In[213]:=

```
SystemModelPlot[simsensdata,
  {"NR_Resource_Utilization1.P_Nr_Res_Use_Fact_2.Smooth3.Integrator1.y",
   "Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[5]", percentvar}]
```

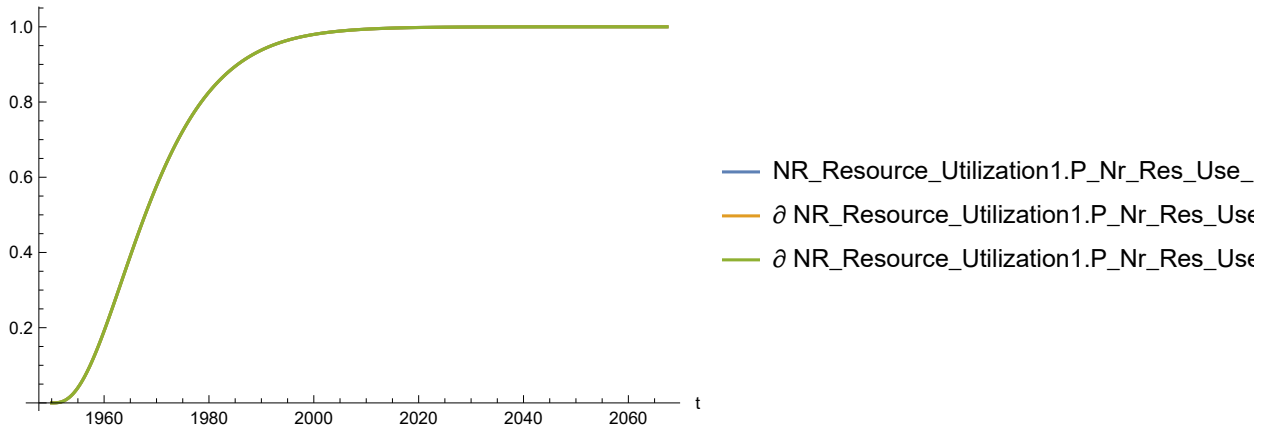
Out[213]=



In[214]:=

```
SystemModelPlot[simsensdata,
  {"NR_Resource_Utilization1.P_Nr_Res_Use_Fact_2.Smooth3.Integrator1.y",
   "Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[6]", percentvar}]
```

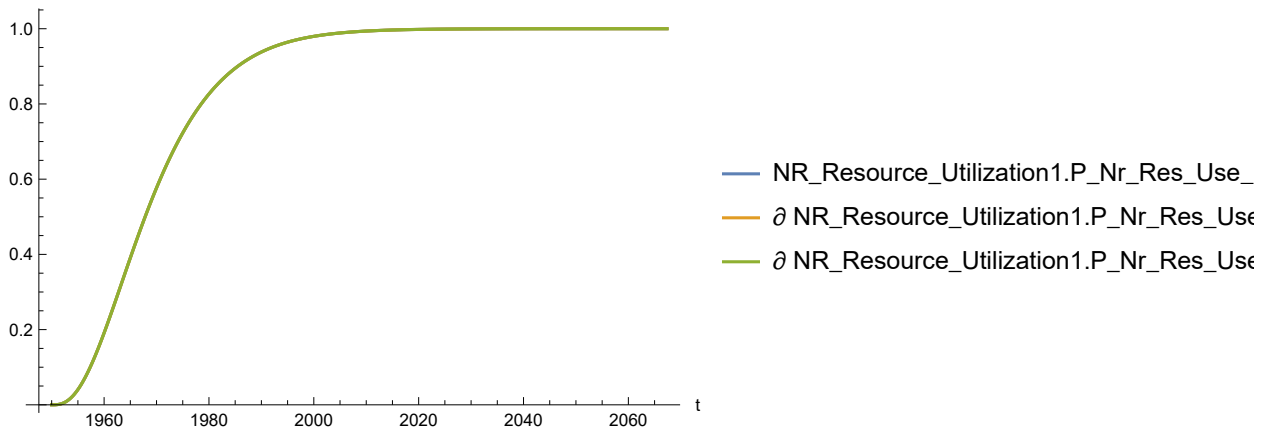
Out[214]=



In[215]:=

```
SystemModelPlot[simsensdata,
  {"NR_Resource_Utilization1.P_Nr_Res_Use_Fact_2.Smooth3.Integrator1.y",
   "Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[7]", percentvar}]
```

Out[215]=

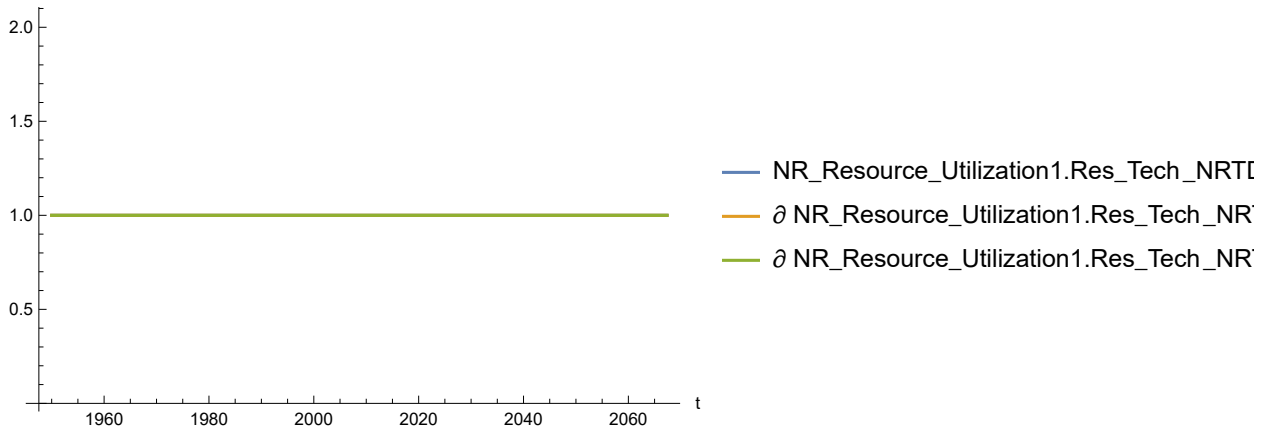


Plot the sensitivity of NR_Resource_Utilization1.Res_Tech_NRTD.Integrator1.y to Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals.

In[216]:=

```
SystemModelPlot[simsensdata, {"NR_Resource_Utilization1.Res_Tech_NRTD.Integrator1.y",
"Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[1]", percentvar}]
```

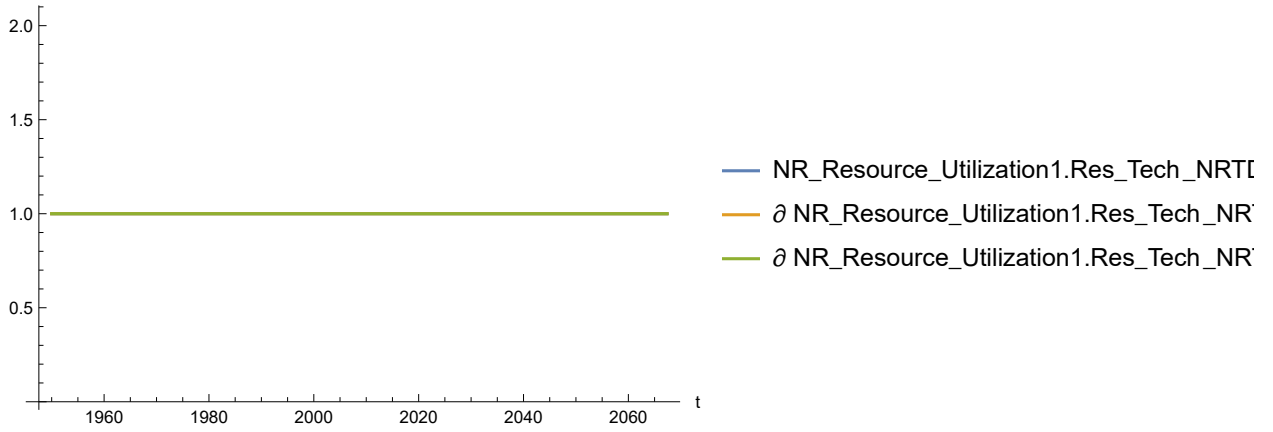
Out[216]=



In[217]:=

```
SystemModelPlot[simsensdata, {"NR_Resource_Utilization1.Res_Tech_NRTD.Integrator1.y",
"Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[2]", percentvar}]
```

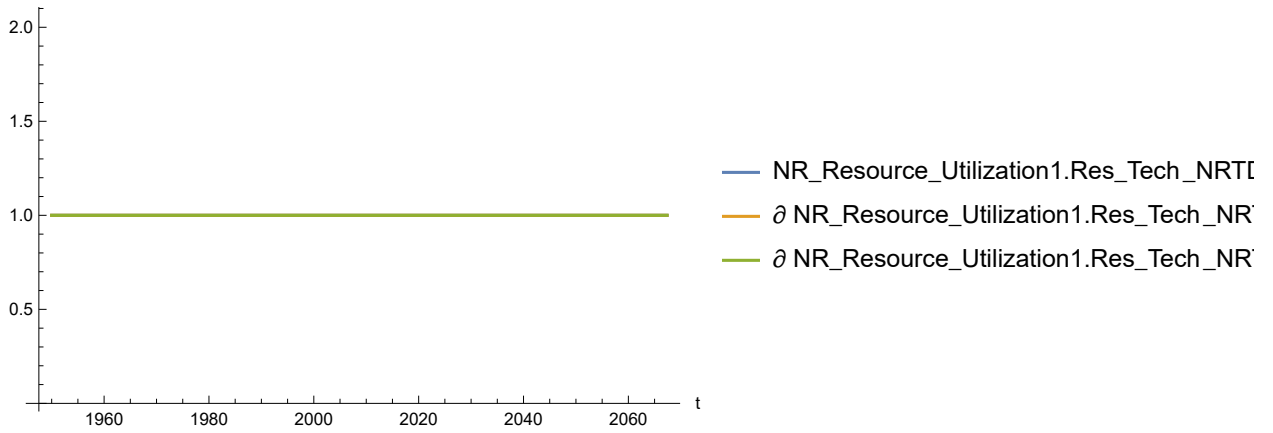
Out[217]=



In[218]:=

```
SystemModelPlot[simsensdata, {"NR_Resource_Utilization1.Res_Tech_NRTD.Integrator1.y",
"Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[3]", percentvar}]
```

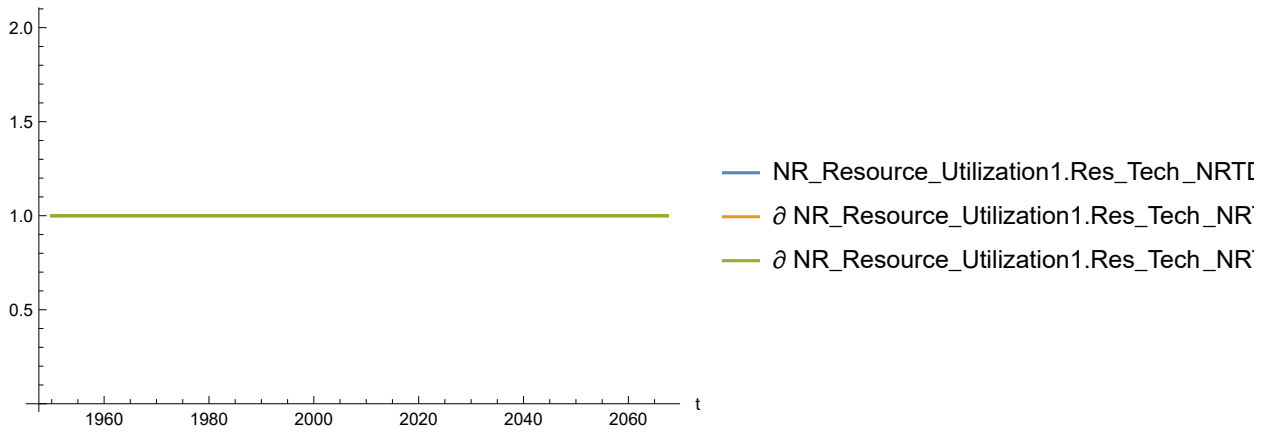
Out[218]=



In[219]:=

```
SystemModelPlot[simsensdata, {"NR_Resource_Utilization1.Res_Tech_NRTD.Integrator1.y",
"Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[4]", percentvar}]
```

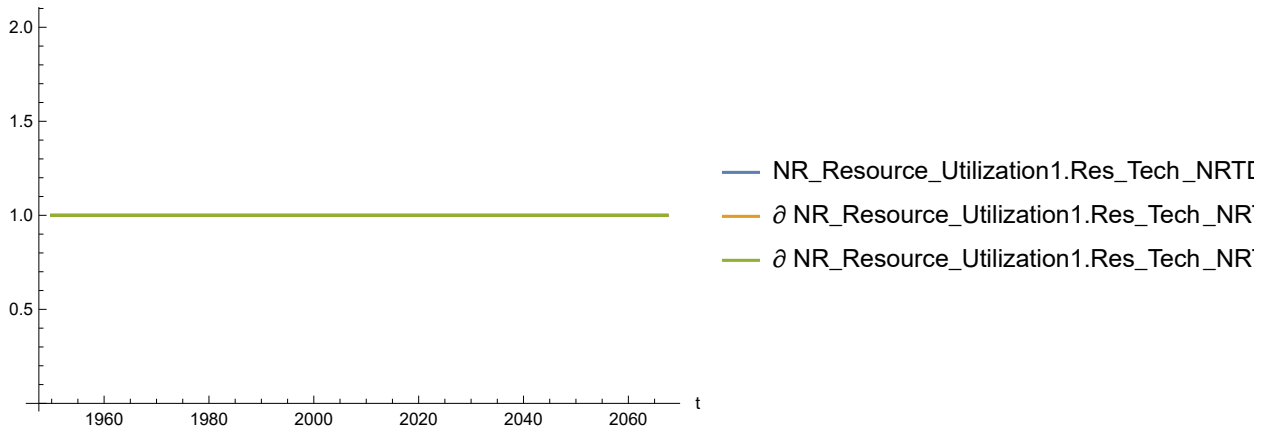
Out[219]=



In[220]:=

```
SystemModelPlot[simsensdata, {"NR_Resource_Utilization1.Res_Tech_NRTD.Integrator1.y",
"Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[5]", percentvar}]
```

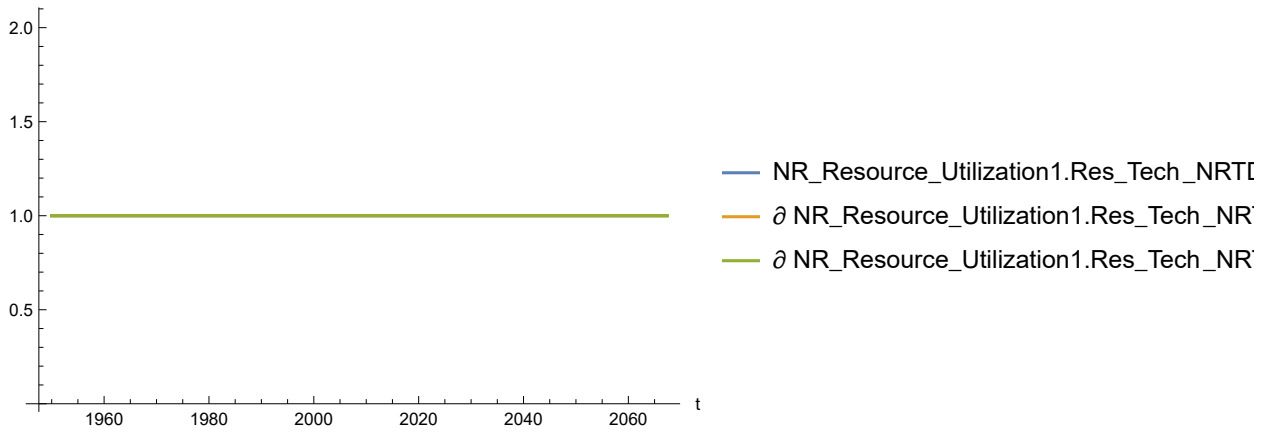
Out[220]=



In[221]:=

```
SystemModelPlot[simsensdata, {"NR_Resource_Utilization1.Res_Tech_NRTD.Integrator1.y",
"Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[6]", percentvar}]
```

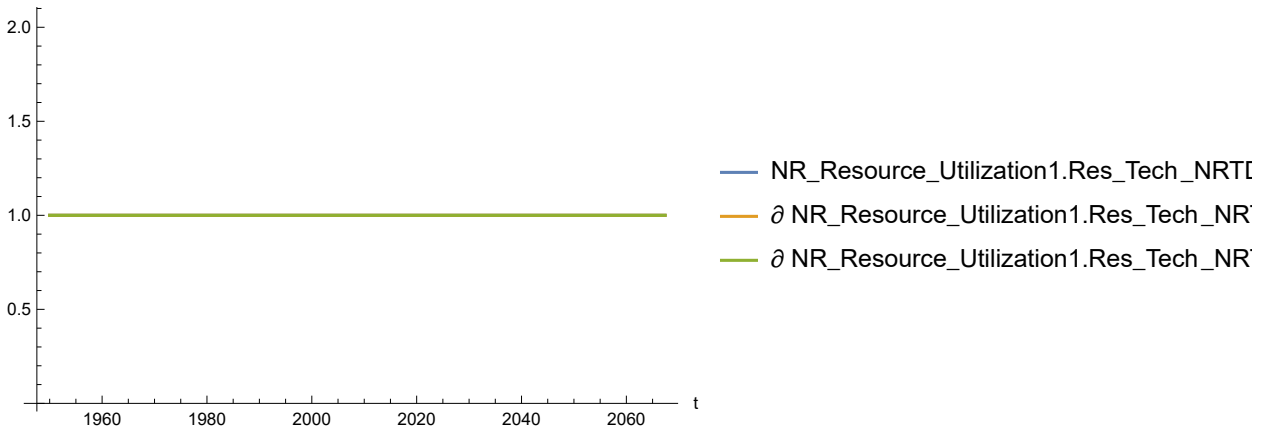
Out[221]=



In[222]:=

```
SystemModelPlot[simsensdata, {"NR_Resource_Utilization1.Res_Tech_NRTD.Integrator1.y",
"Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[7]", percentvar}]
```

Out[222]=

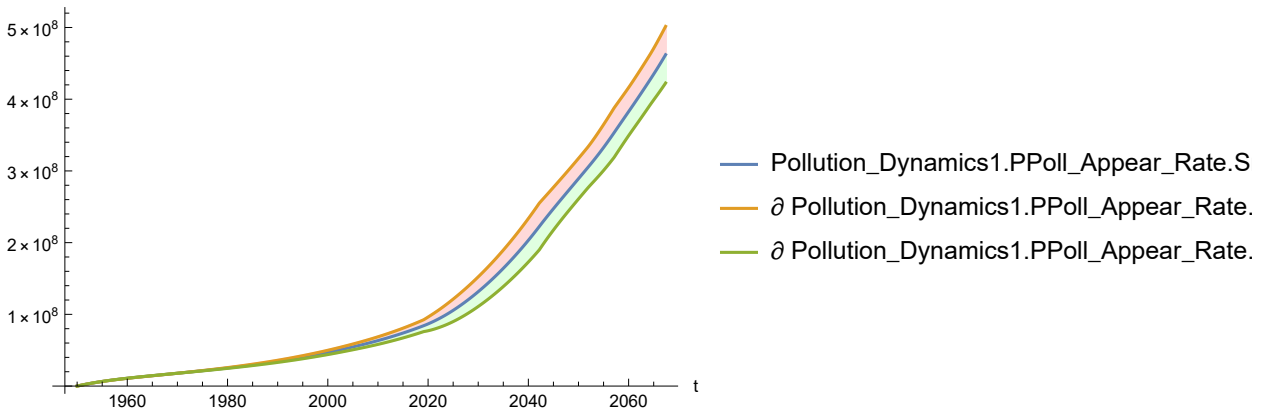


Plot the sensitivity of Pollution_Dynamics1.PPoll_Appear_Rate.Smooth1.Integrator1.y to Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals.

In[223]:=

```
SystemModelPlot[simsensdata, {"Pollution_Dynamics1.PPoll_Appear_Rate.Smooth1.Integrator1.y",
"Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[1]", percentvar}]
```

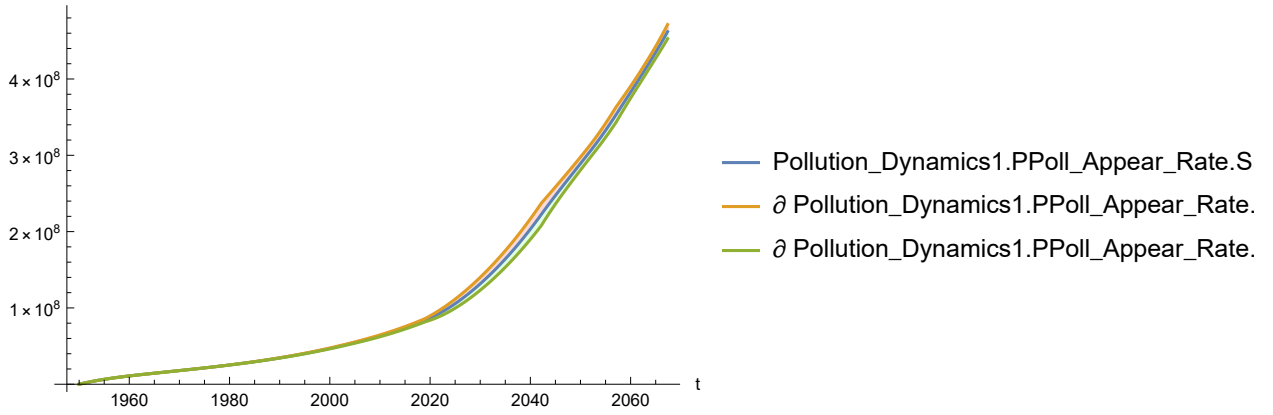
Out[223]=



In[224]:=

```
SystemModelPlot[simsensdata,
  {"Pollution_Dynamics1.PPoll_Appear_Rate.Smooth1.Integrator1.y",
   "Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[2]", percentvar}]
```

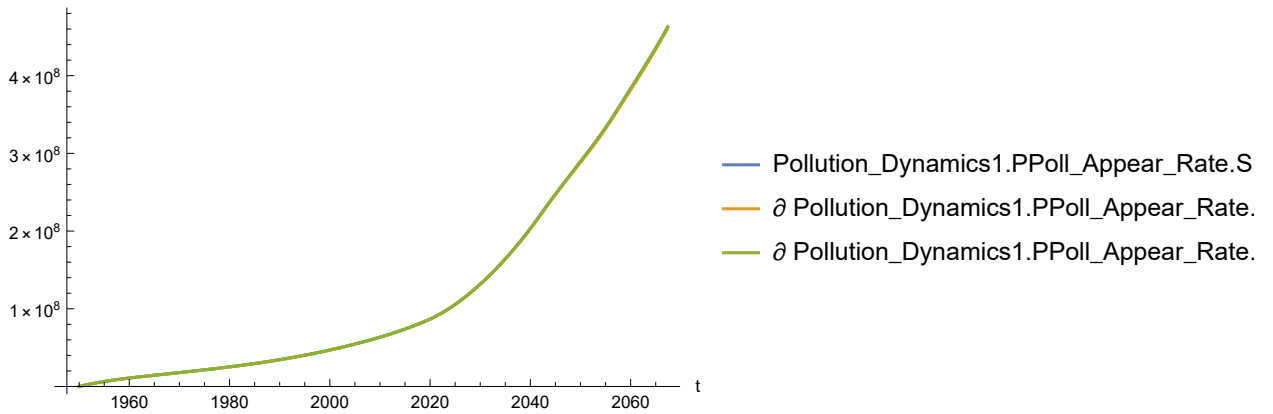
Out[224]=



In[225]:=

```
SystemModelPlot[simsensdata,
  {"Pollution_Dynamics1.PPoll_Appear_Rate.Smooth1.Integrator1.y",
   "Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[3]", percentvar}]
```

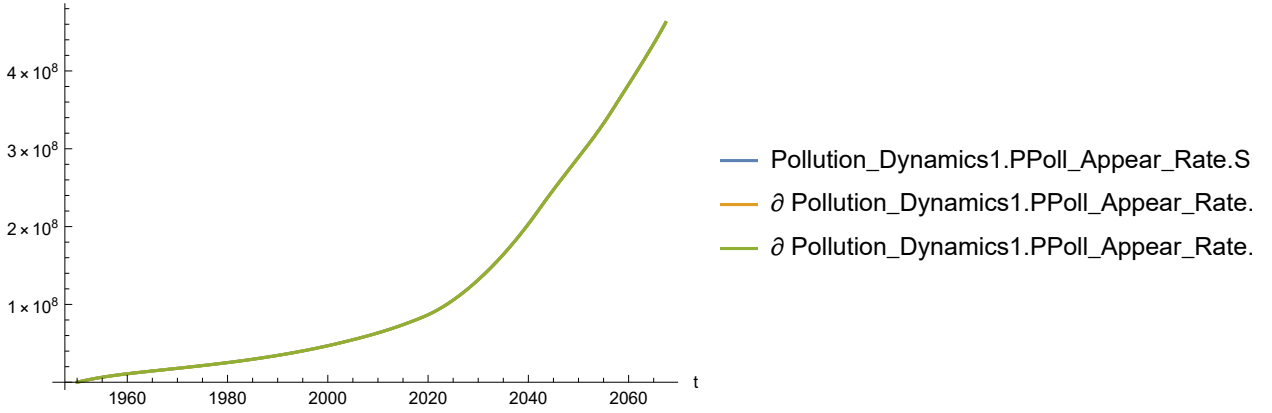
Out[225]=



In[226]:=

```
SystemModelPlot[simsensdata,
  {"Pollution_Dynamics1.PPoll_Appear_Rate.Smooth1.Integrator1.y",
   "Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[4]", percentvar}]
```

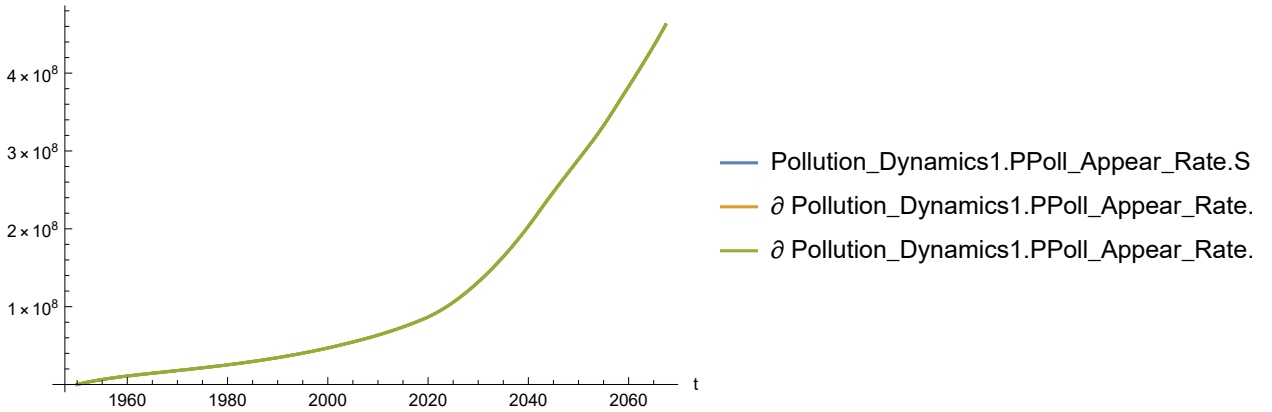
Out[226]=



In[227]:=

```
SystemModelPlot[simsensdata,
  {"Pollution_Dynamics1.PPoll_Appear_Rate.Smooth1.Integrator1.y",
   "Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[5]", percentvar}]
```

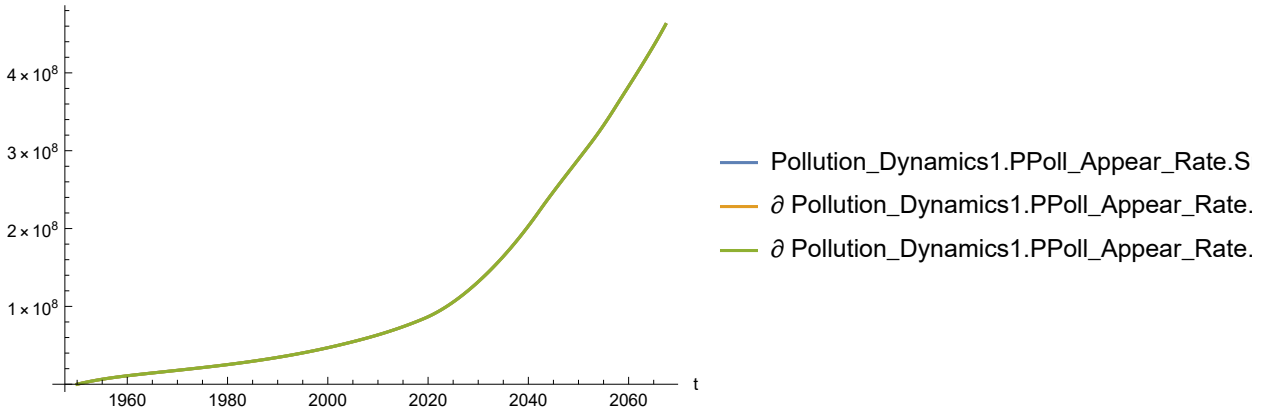
Out[227]=



In[228]:=

```
SystemModelPlot[simsensdata,
  {"Pollution_Dynamics1.PPoll_Appear_Rate.Smooth1.Integrator1.y",
   "Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[6]", percentvar}]
```

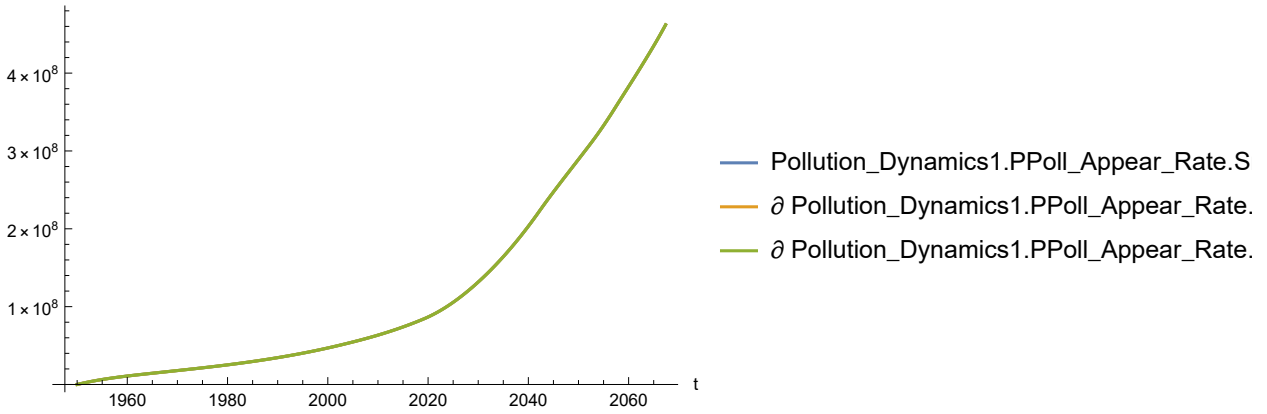
Out[228]=



In[229]:=

```
SystemModelPlot[simsensdata,
  {"Pollution_Dynamics1.PPoll_Appear_Rate.Smooth1.Integrator1.y",
   "Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[7]", percentvar}]
```

Out[229]=

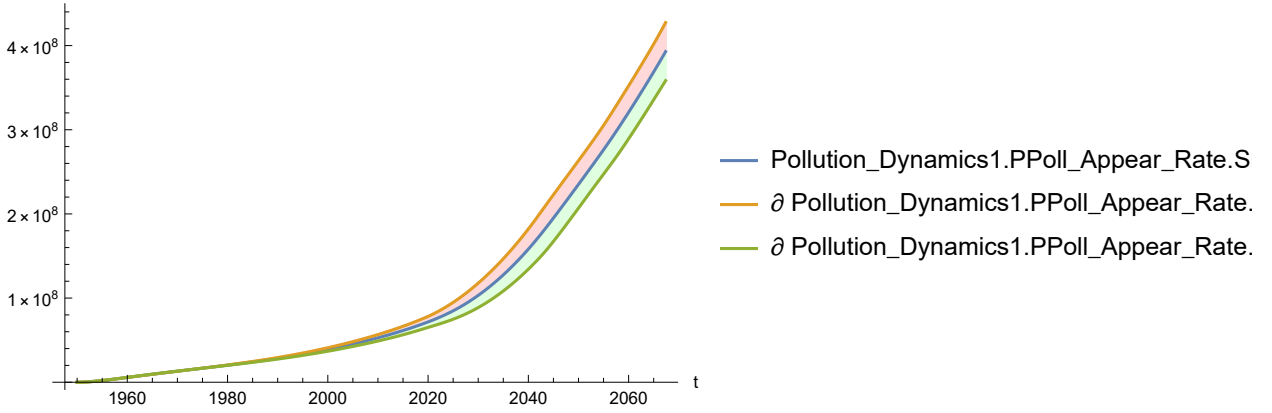


Plot the sensitivity of Pollution_Dynamics1.PPoll_Appear_Rate.Smooth2.Integrator1.y to Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals.

In[230]:=

```
SystemModelPlot[simsensdata,
  {"Pollution_Dynamics1.PPoll_Appear_Rate.Smooth2.Integrator1.y",
   "Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[1]", percentvar}]
```

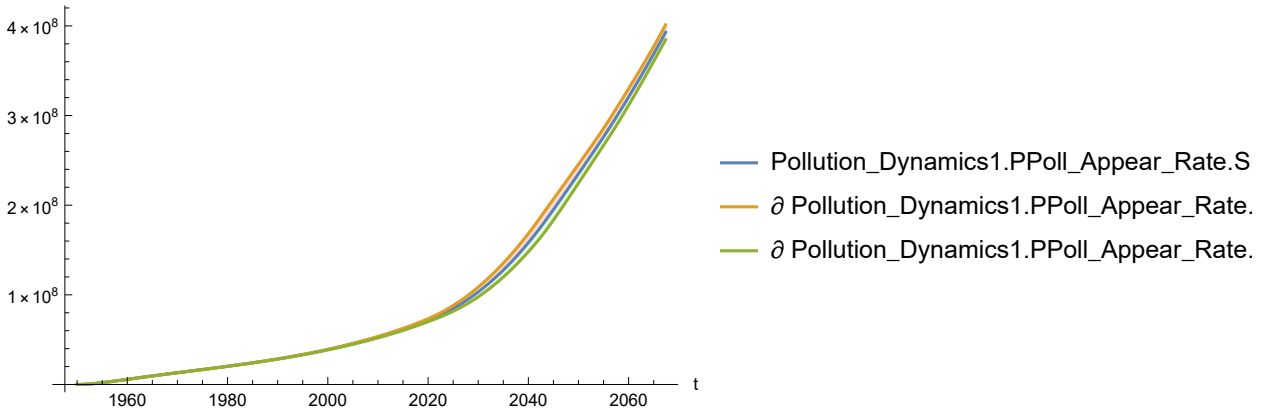
Out[230]=



In[231]:=

```
SystemModelPlot[simsensdata,
  {"Pollution_Dynamics1.PPoll_Appear_Rate.Smooth2.Integrator1.y",
   "Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[2]", percentvar}]
```

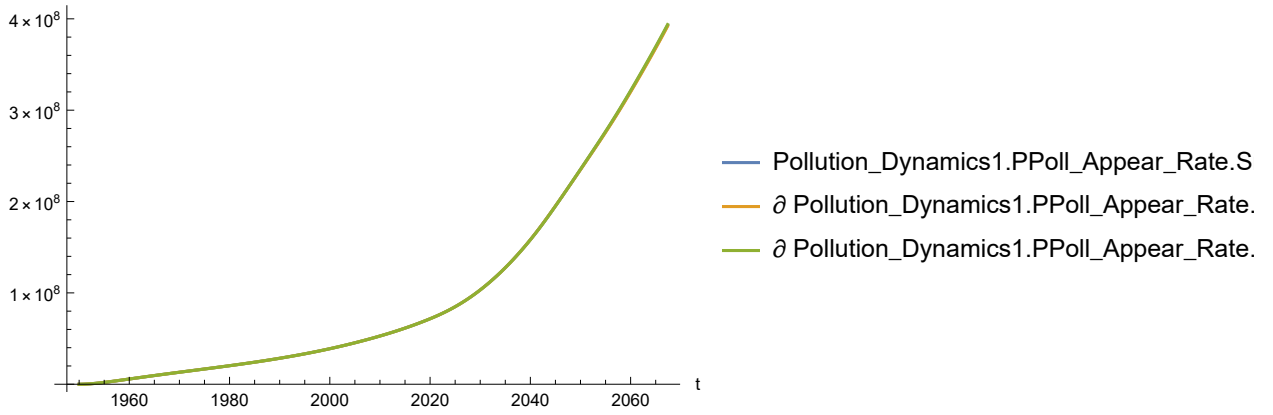
Out[231]=



In[232]:=

```
SystemModelPlot[simsensdata,
  {"Pollution_Dynamics1.PPoll_Appear_Rate.Smooth2.Integrator1.y",
   "Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[3]", percentvar}]
```

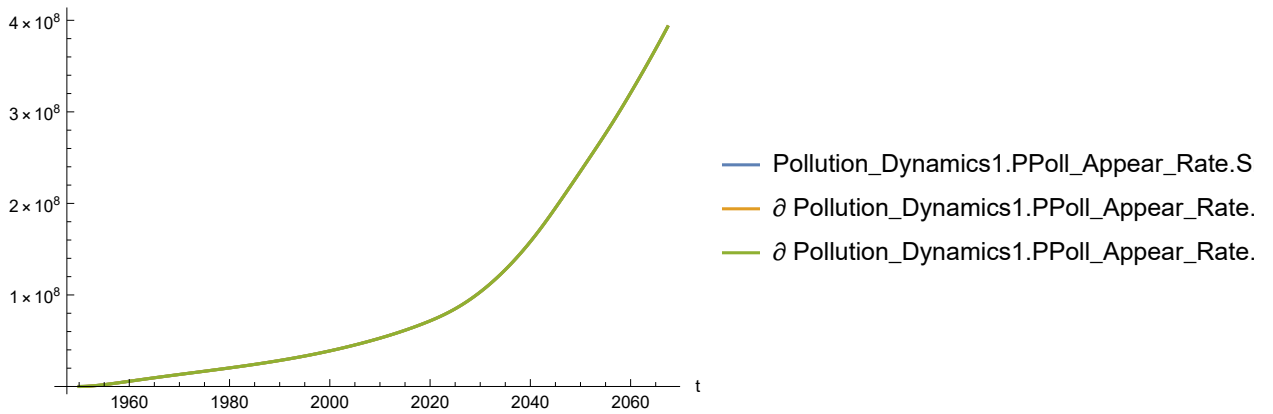
Out[232]=



In[233]:=

```
SystemModelPlot[simsensdata,
  {"Pollution_Dynamics1.PPoll_Appear_Rate.Smooth2.Integrator1.y",
   "Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[4]", percentvar}]
```

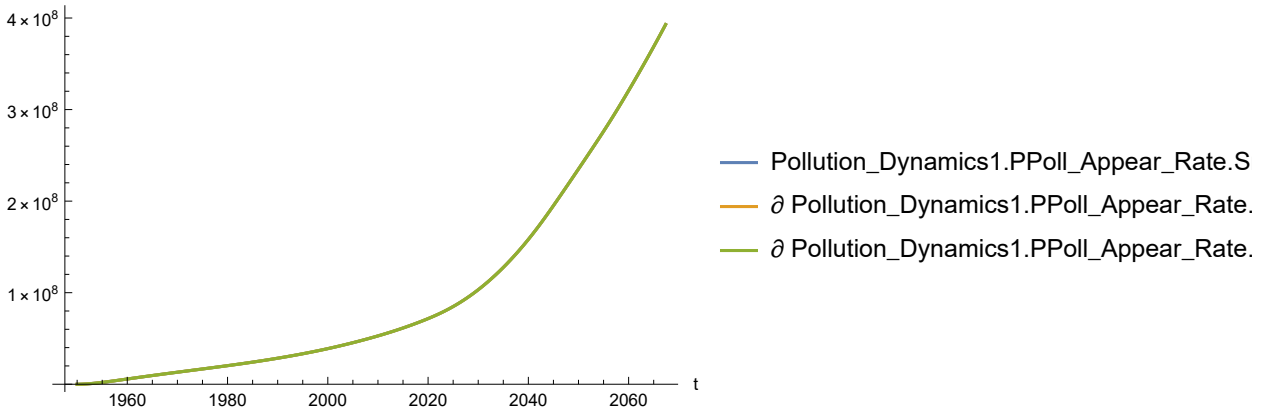
Out[233]=



In[234]:=

```
SystemModelPlot[simsensdata,
  {"Pollution_Dynamics1.PPoll_Appear_Rate.Smooth2.Integrator1.y",
   "Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[5]", percentvar}]
```

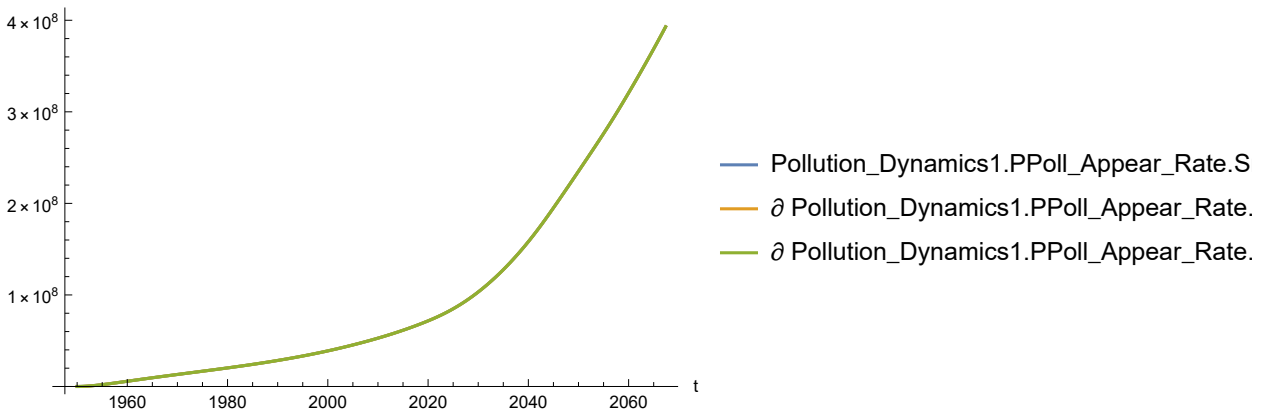
Out[234]=



In[235]:=

```
SystemModelPlot[simsensdata,
  {"Pollution_Dynamics1.PPoll_Appear_Rate.Smooth2.Integrator1.y",
   "Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[6]", percentvar}]
```

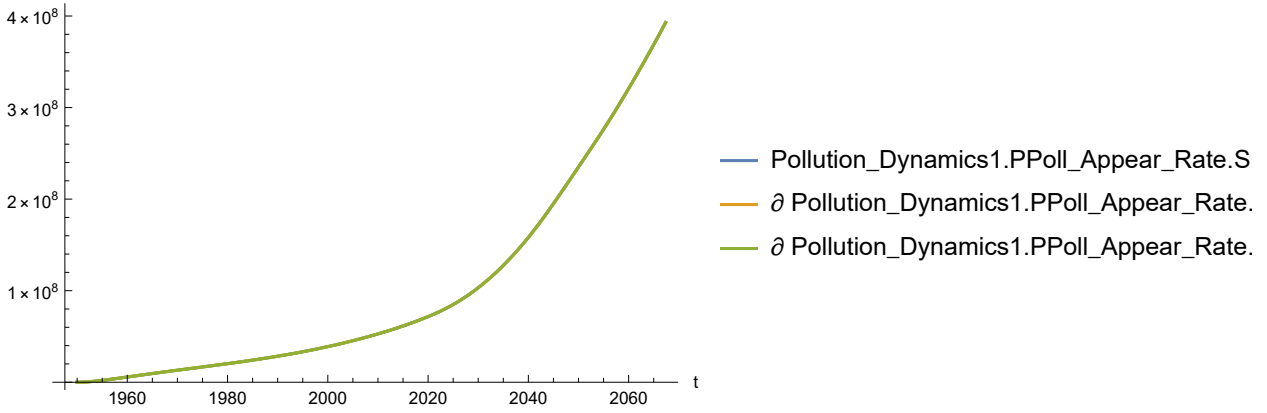
Out[235]=



In[236]:=

```
SystemModelPlot[simsensdata,
  {"Pollution_Dynamics1.PPoll_Appear_Rate.Smooth2.Integrator1.y",
   "Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[7]", percentvar}]
```

Out[236]=

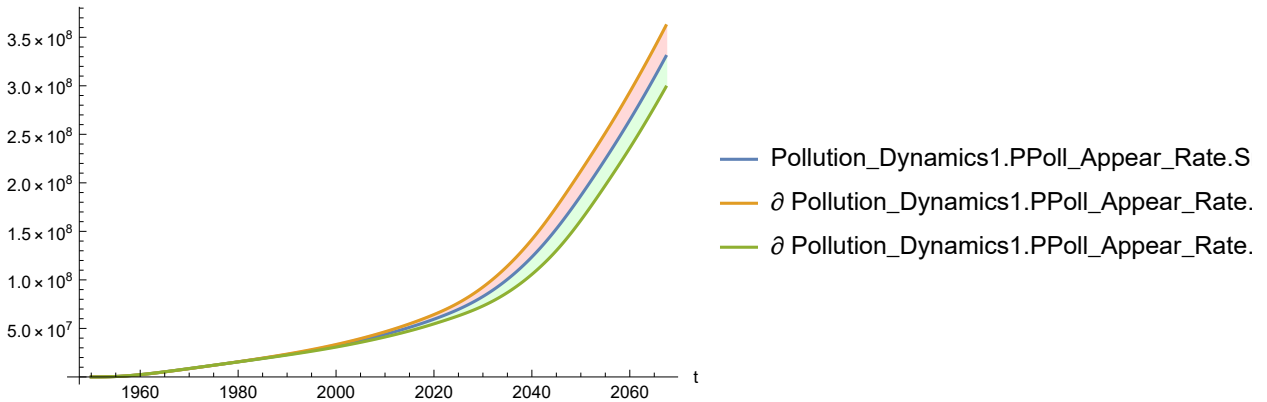


Plot the sensitivity of Pollution_Dynamics1.PPoll_Appear_Rate.Smooth3.Integrator1.y to Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals.

In[237]:=

```
SystemModelPlot[simsensdata,
  {"Pollution_Dynamics1.PPoll_Appear_Rate.Smooth3.Integrator1.y",
   "Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[1]", percentvar}]
```

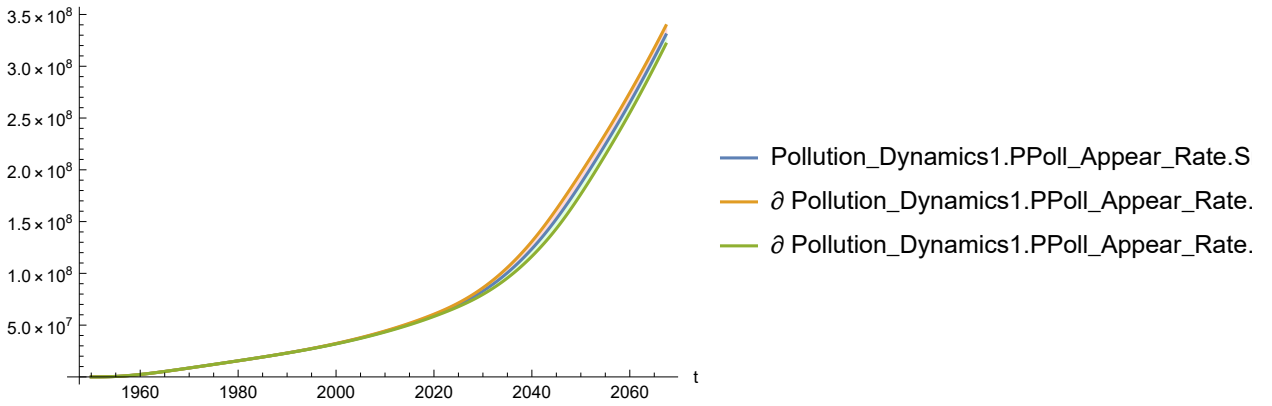
Out[237]=



In[238]:=

```
SystemModelPlot[simsensdata,
  {"Pollution_Dynamics1.PPoll_Appear_Rate.Smooth3.Integrator1.y",
   "Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[2]", percentvar}]
```

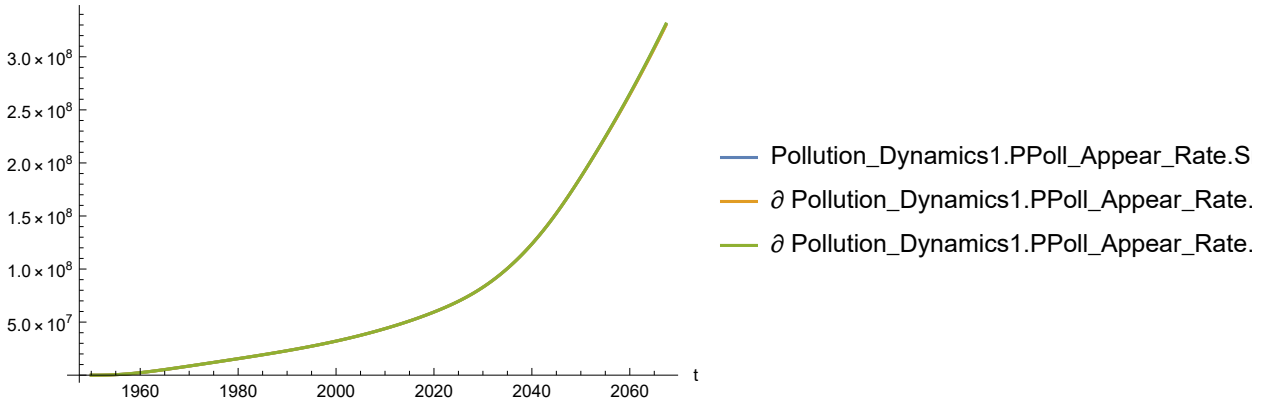
Out[238]=



In[239]:=

```
SystemModelPlot[simsensdata,
  {"Pollution_Dynamics1.PPoll_Appear_Rate.Smooth3.Integrator1.y",
   "Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[3]", percentvar}]
```

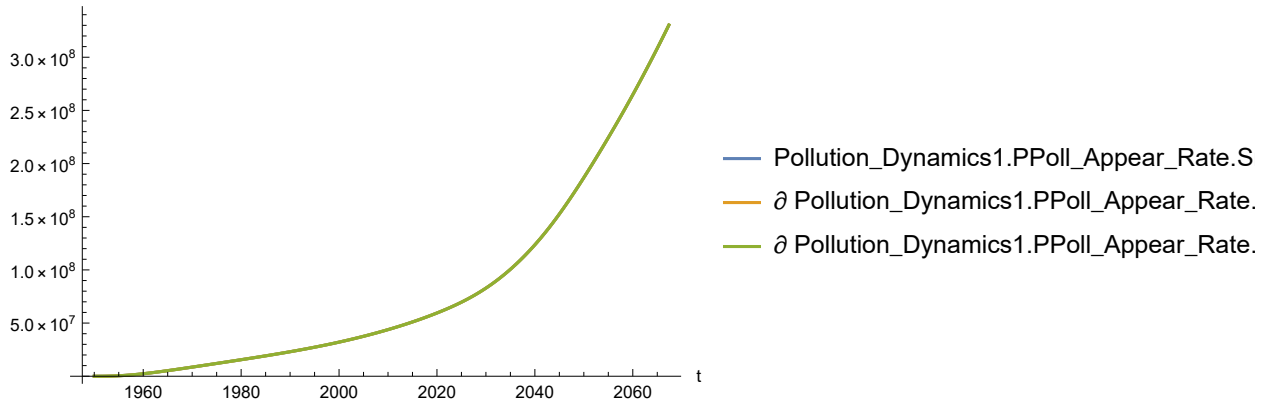
Out[239]=



In[240]:=

```
SystemModelPlot[simsensdata,
  {"Pollution_Dynamics1.PPoll_Appear_Rate.Smooth3.Integrator1.y",
   "Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[4]", percentvar}]
```

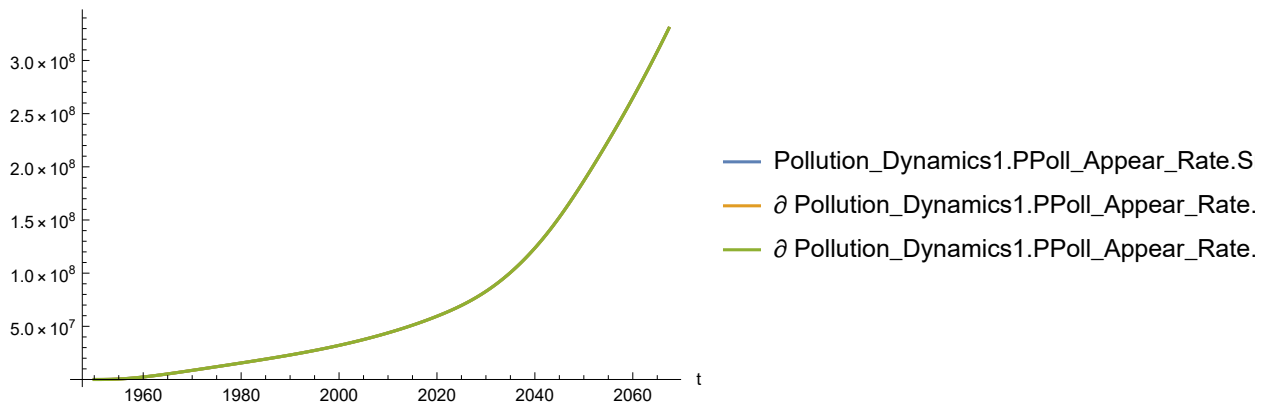
Out[240]=



In[241]:=

```
SystemModelPlot[simsensdata,
  {"Pollution_Dynamics1.PPoll_Appear_Rate.Smooth3.Integrator1.y",
   "Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[5]", percentvar}]
```

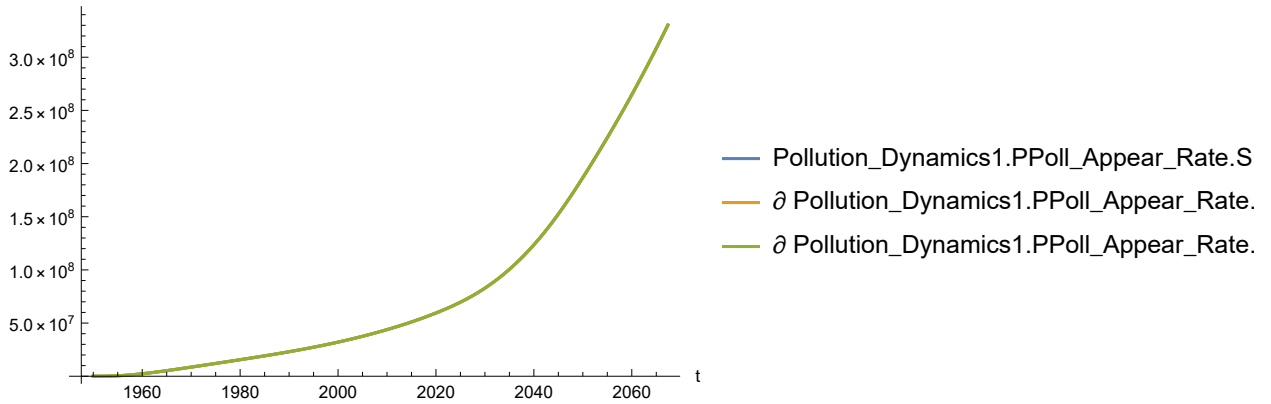
Out[241]=



In[242]:=

```
SystemModelPlot[simsensdata,
  {"Pollution_Dynamics1.PPoll_Appear_Rate.Smooth3.Integrator1.y",
   "Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[6]", percentvar}]
```

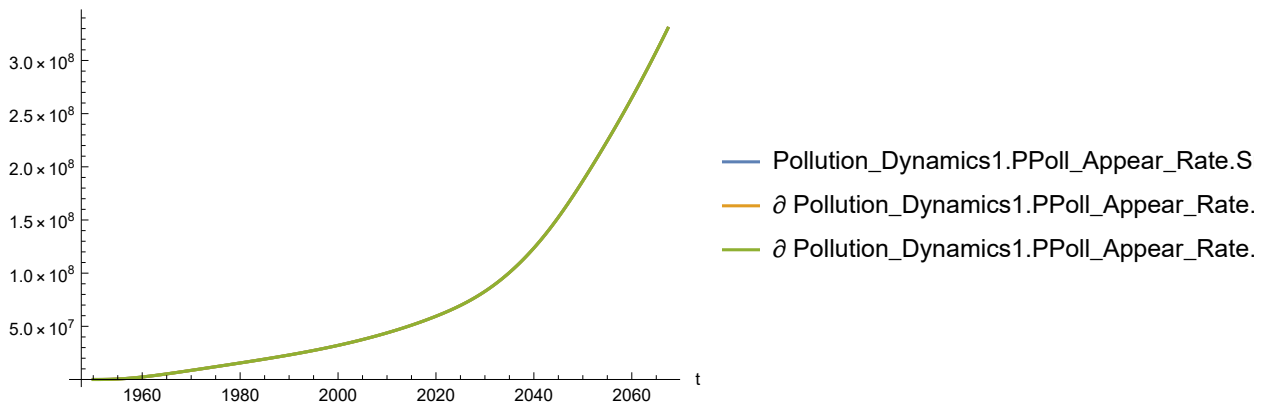
Out[242]=



In[243]:=

```
SystemModelPlot[simsensdata,
  {"Pollution_Dynamics1.PPoll_Appear_Rate.Smooth3.Integrator1.y",
   "Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[7]", percentvar}]
```

Out[243]=

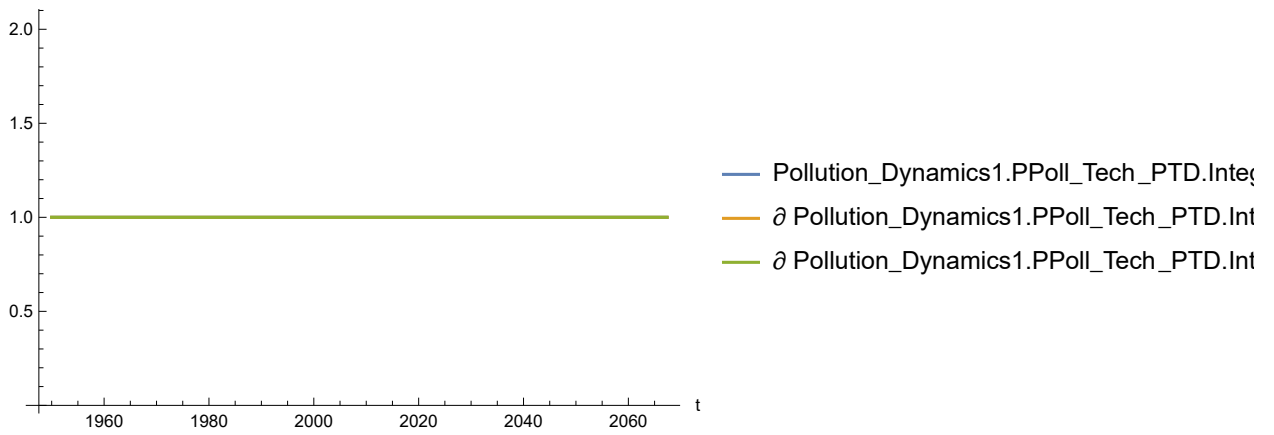


Plot the sensitivity of Pollution_Dynamics1.PPoll_Tech_PTD.Integrator1.y to Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals.

In[244]:=

```
SystemModelPlot[simsensdata, {"Pollution_Dynamics1.PPoll_Tech_PTD.Integrator1.y",
"Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[1]", percentvar}]
```

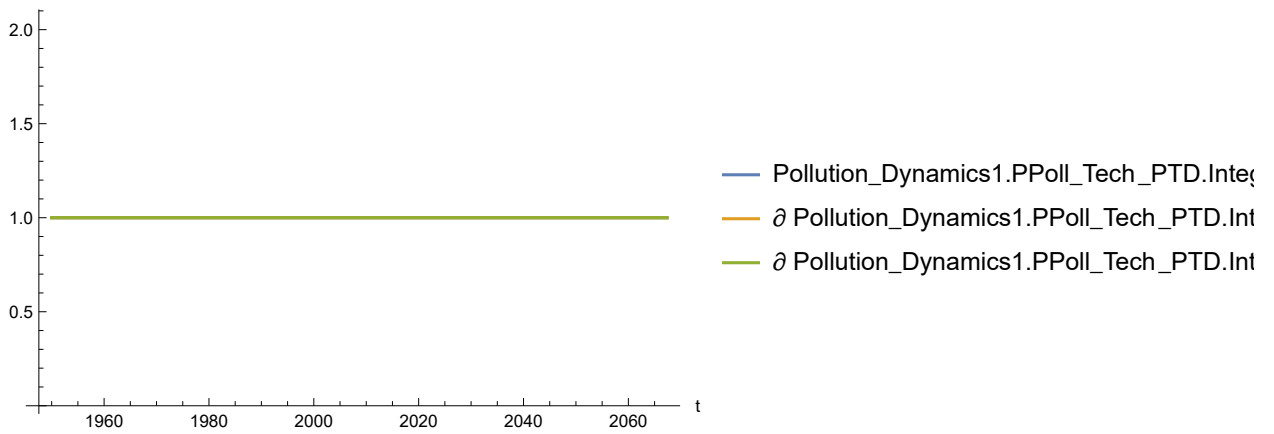
Out[244]=



In[245]:=

```
SystemModelPlot[simsensdata, {"Pollution_Dynamics1.PPoll_Tech_PTD.Integrator1.y",
"Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[2]", percentvar}]
```

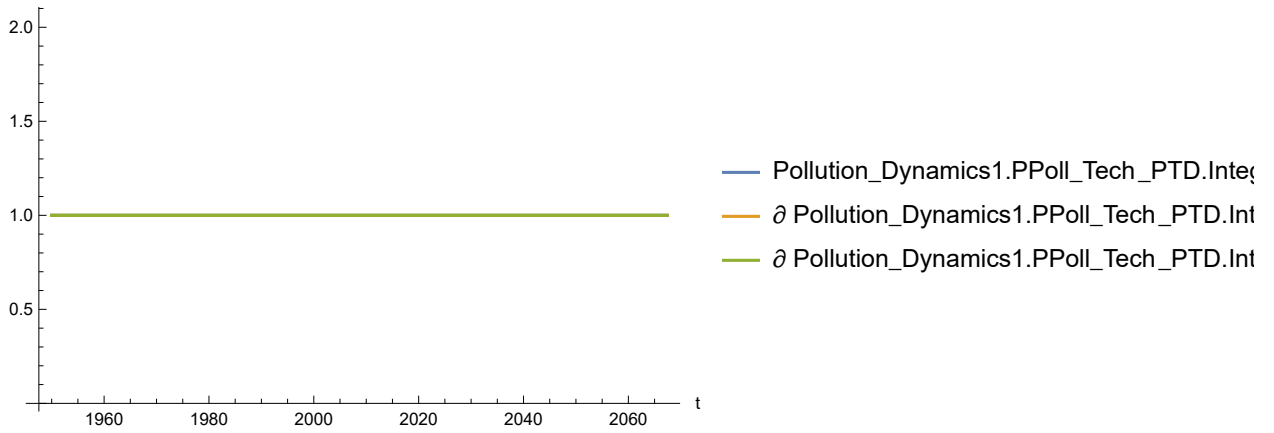
Out[245]=



In[246]:=

```
SystemModelPlot[simsensdata, {"Pollution_Dynamics1.PPoll_Tech_PTD.Integrator1.y",
"Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[3]", percentvar}]
```

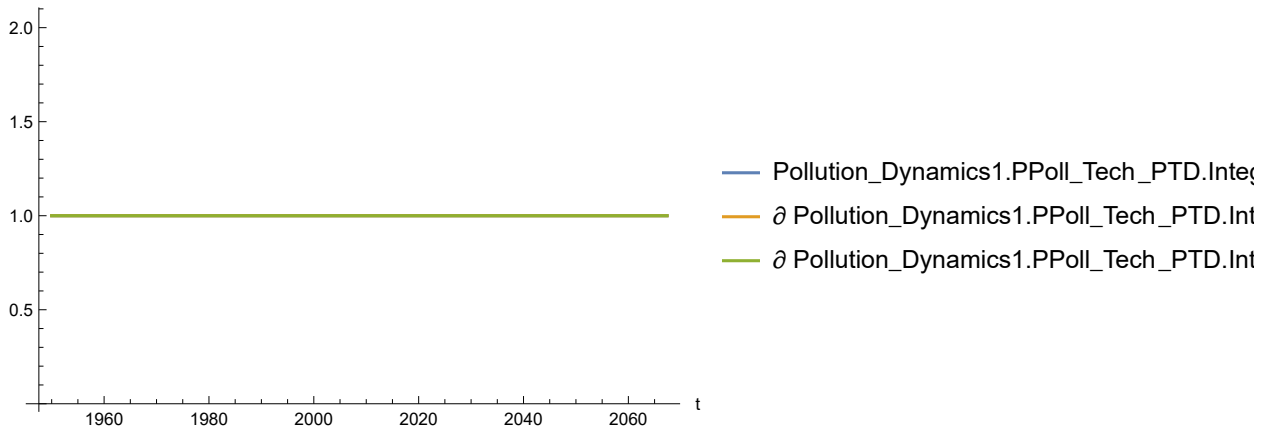
Out[246]=



In[247]:=

```
SystemModelPlot[simsensdata, {"Pollution_Dynamics1.PPoll_Tech_PTD.Integrator1.y",
"Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[4]", percentvar}]
```

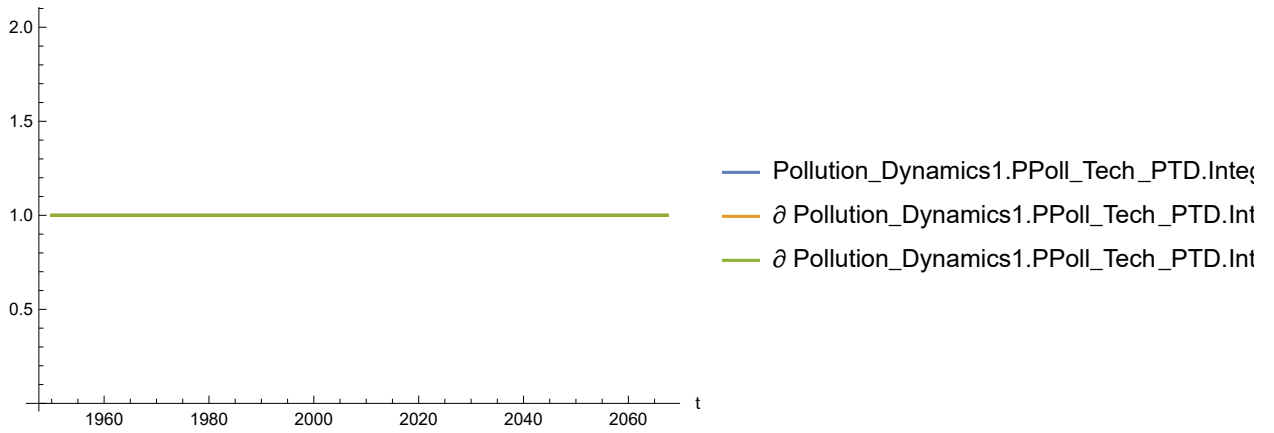
Out[247]=



In[248]:=

```
SystemModelPlot[simsensdata, {"Pollution_Dynamics1.PPoll_Tech_PTD.Integrator1.y",
"Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[5]", percentvar}]
```

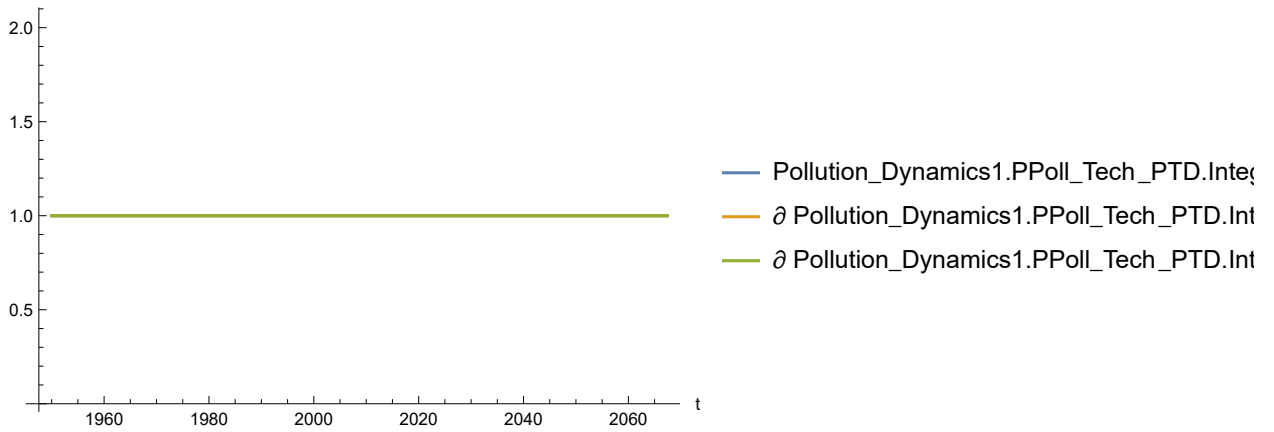
Out[248]=



In[249]:=

```
SystemModelPlot[simsensdata, {"Pollution_Dynamics1.PPoll_Tech_PTD.Integrator1.y",
"Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[6]", percentvar}]
```

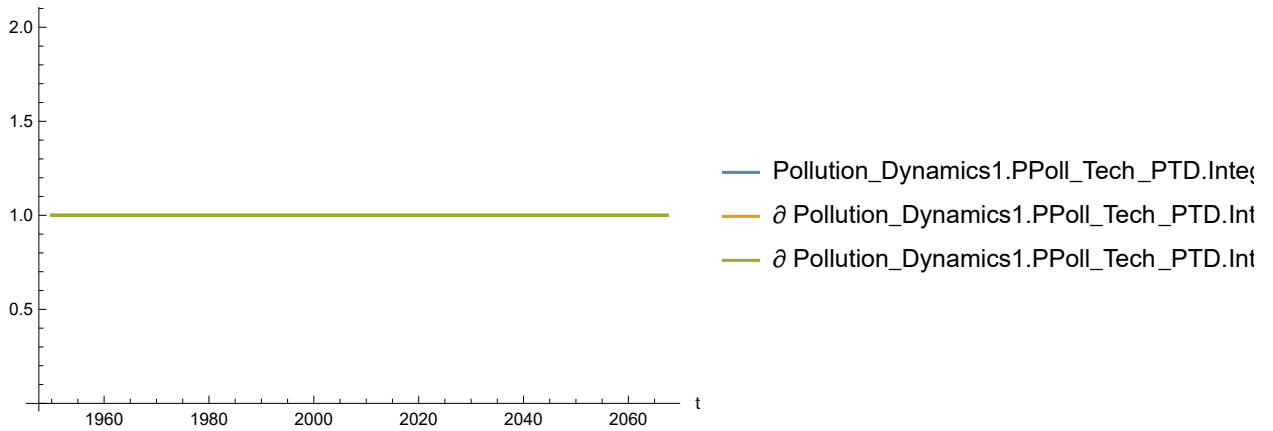
Out[249]=



In[250]:=

```
SystemModelPlot[simsensdata, {"Pollution_Dynamics1.PPoll_Tech_PTD.Integrator1.y",
"Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[7]", percentvar}]]
```

Out[250]=

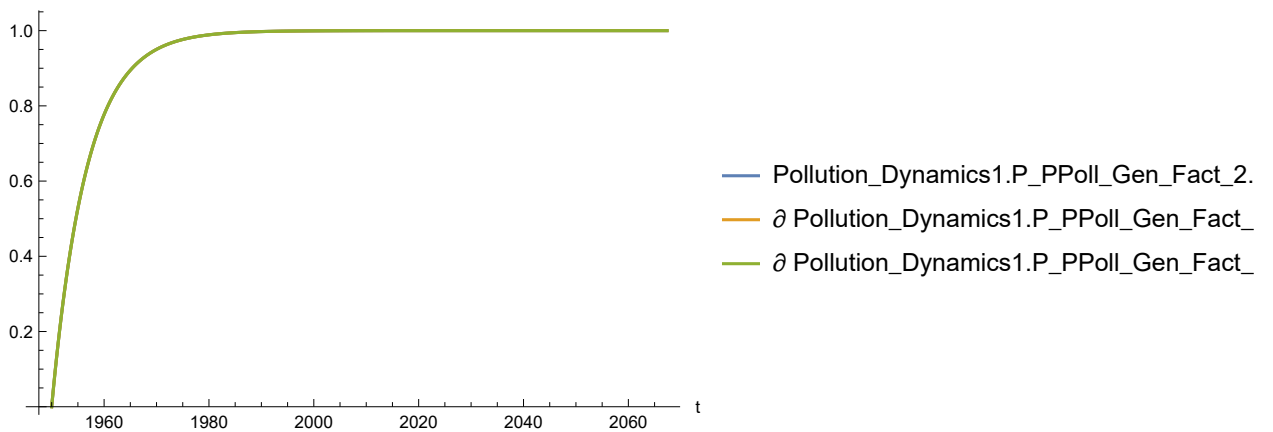


Plot the sensitivity of Pollution_Dynamics1.P_PPoll_Gen_Fact_2.Smooth1.Integrator1.y to Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals.

In[251]:=

```
SystemModelPlot[simsensdata, {"Pollution_Dynamics1.P_PPoll_Gen_Fact_2.Smooth1.Integrator1.y",
"Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[1]", percentvar}]]
```

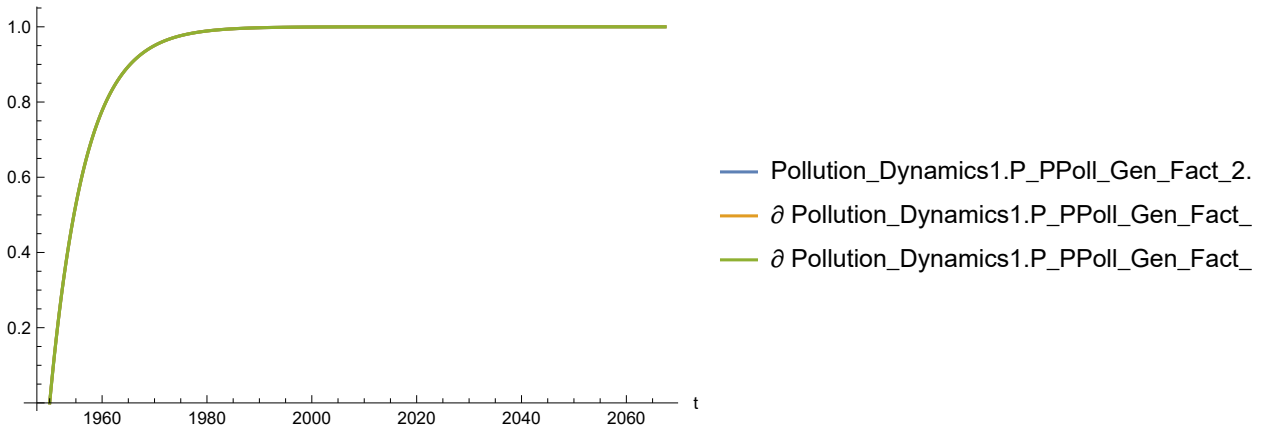
Out[251]=



In[252]:=

```
SystemModelPlot[simsensdata,
  {"Pollution_Dynamics1.P_PPoll_Gen_Fact_2.Smooth1.Integrator1.y",
   "Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[2]", percentvar}]
```

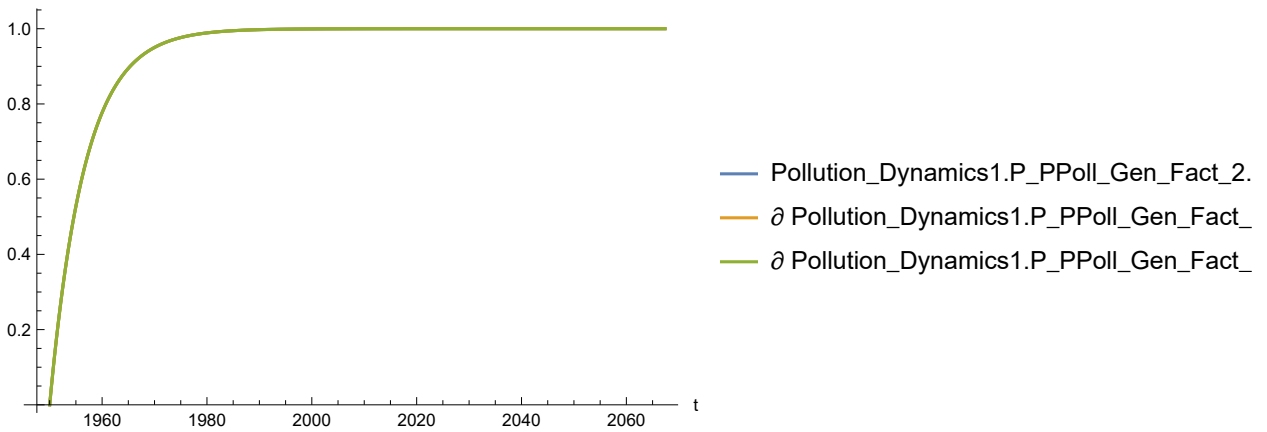
Out[252]=



In[253]:=

```
SystemModelPlot[simsensdata,
  {"Pollution_Dynamics1.P_PPoll_Gen_Fact_2.Smooth1.Integrator1.y",
   "Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[3]", percentvar}]
```

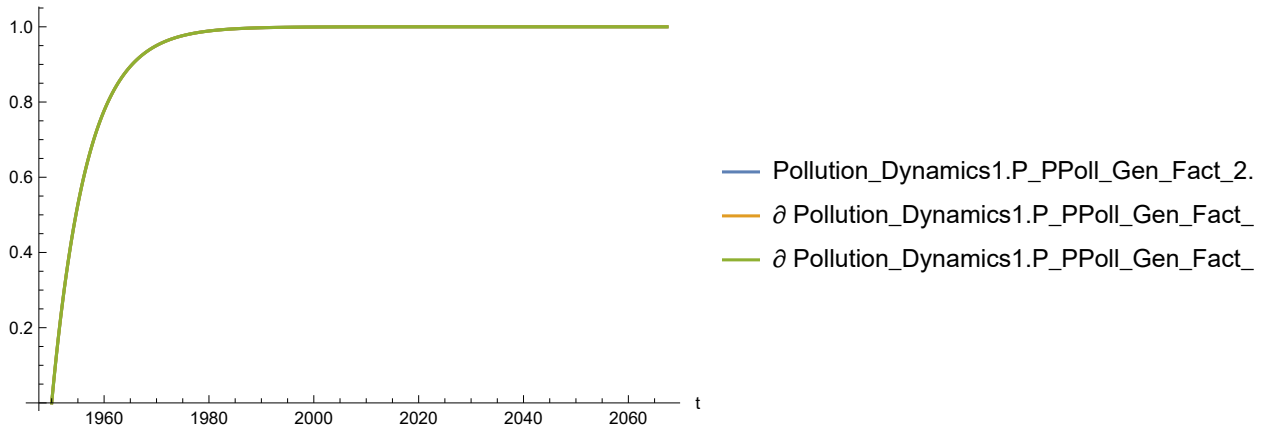
Out[253]=



In[254]:=

```
SystemModelPlot[simsensdata,
  {"Pollution_Dynamics1.P_PPoll_Gen_Fact_2.Smooth1.Integrator1.y",
   "Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[4]", percentvar}]
```

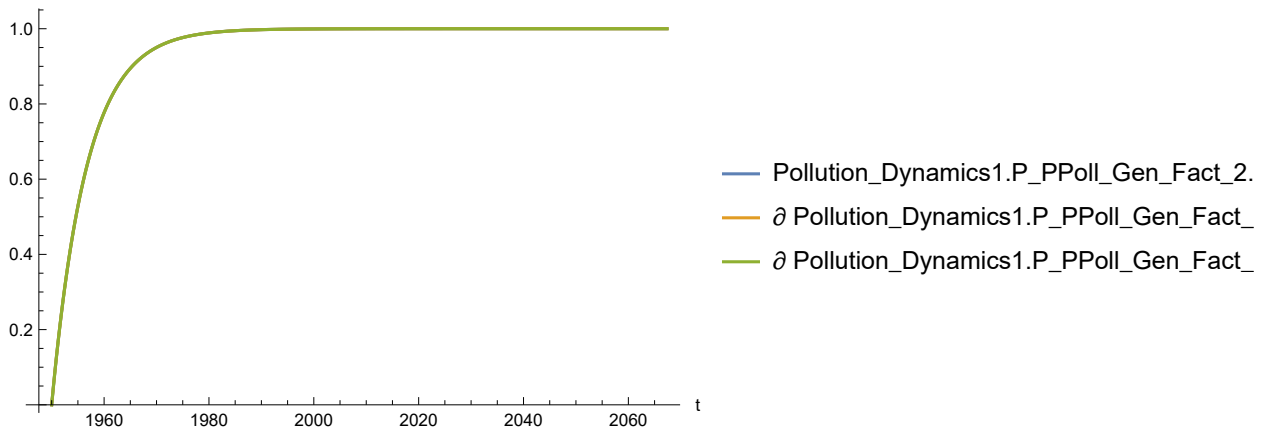
Out[254]=



In[255]:=

```
SystemModelPlot[simsensdata,
  {"Pollution_Dynamics1.P_PPoll_Gen_Fact_2.Smooth1.Integrator1.y",
   "Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[5]", percentvar}]
```

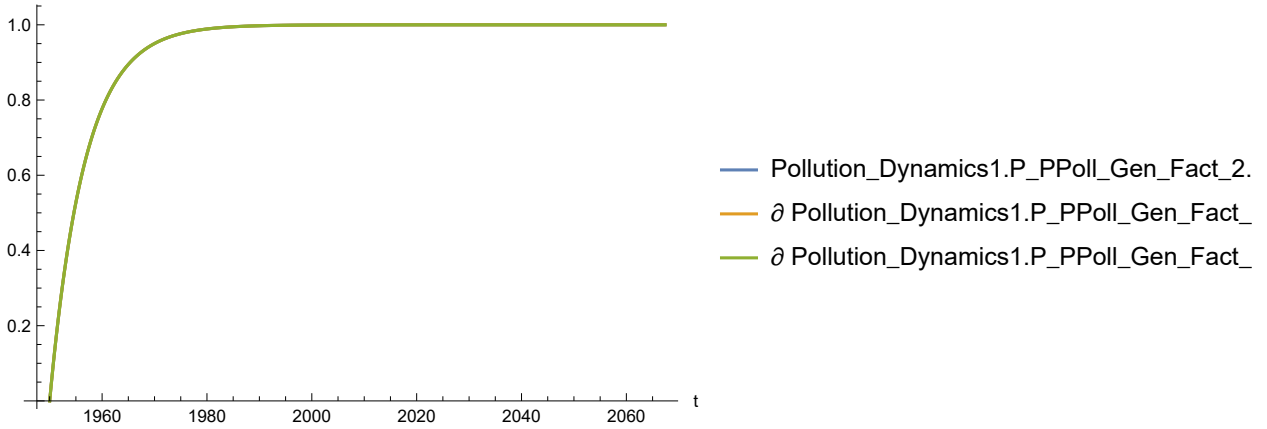
Out[255]=



In[256]:=

```
SystemModelPlot[simsensdata,
  {"Pollution_Dynamics1.P_PPoll_Gen_Fact_2.Smooth1.Integrator1.y",
   "Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[6]", percentvar}]
```

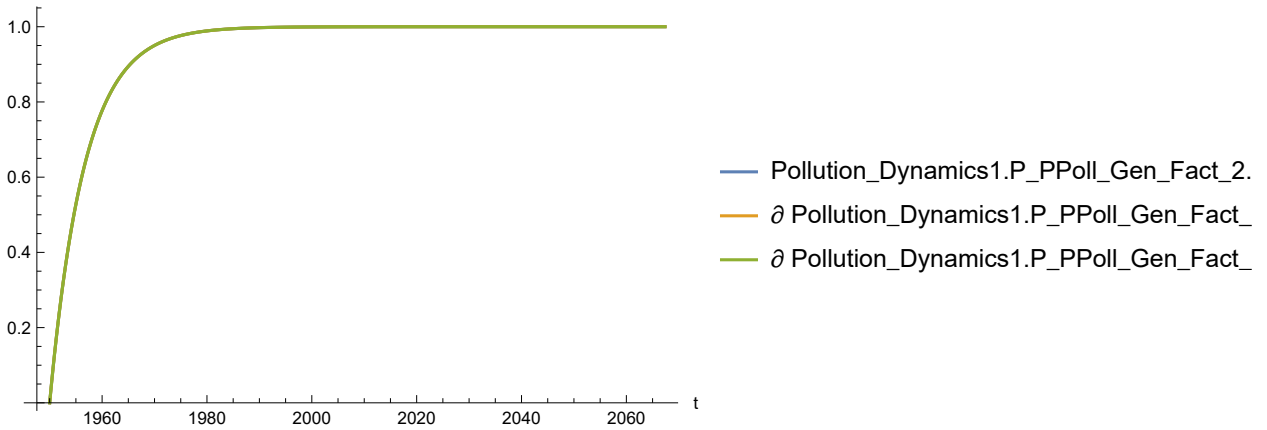
Out[256]=



In[257]:=

```
SystemModelPlot[simsensdata,
  {"Pollution_Dynamics1.P_PPoll_Gen_Fact_2.Smooth1.Integrator1.y",
   "Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[7]", percentvar}]
```

Out[257]=

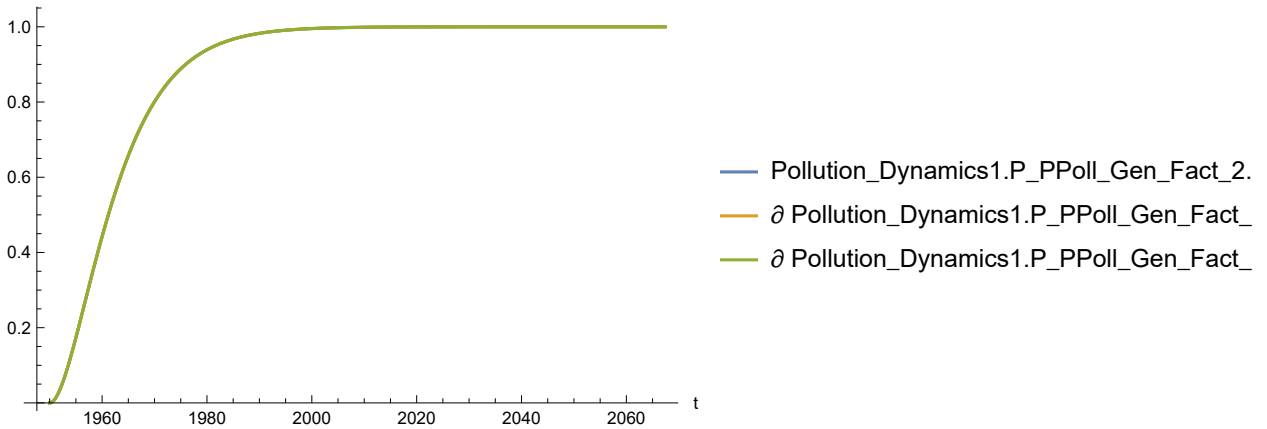


Plot the sensitivity of Pollution_Dynamics1.P_PPoll_Gen_Fact_2.Smooth2.Integrator1.y to Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals.

In[258]:=

```
SystemModelPlot[simsensdata,
  {"Pollution_Dynamics1.P_PPoll_Gen_Fact_2.Smooth2.Integrator1.y",
   "Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[1]", percentvar}]
```

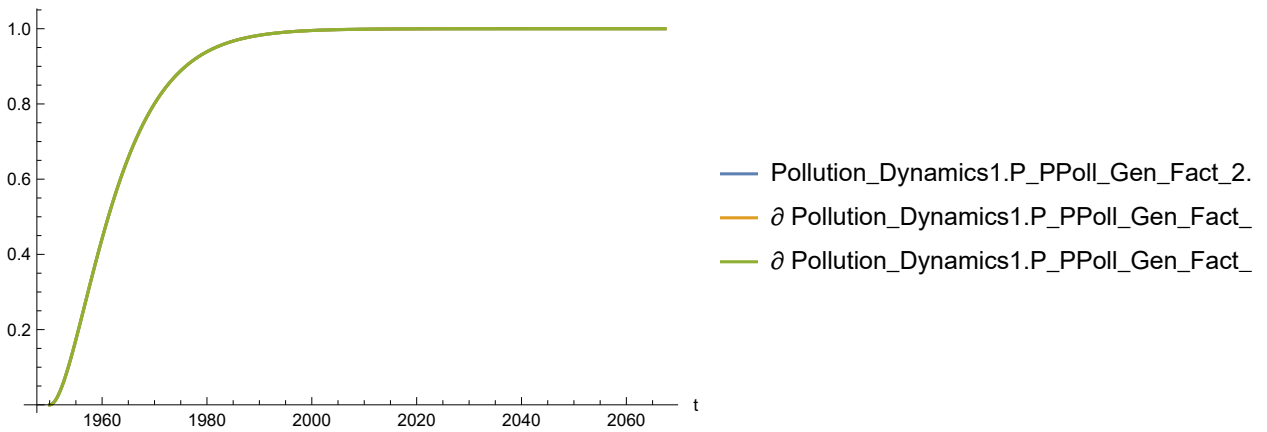
Out[258]=



In[259]:=

```
SystemModelPlot[simsensdata,
  {"Pollution_Dynamics1.P_PPoll_Gen_Fact_2.Smooth2.Integrator1.y",
   "Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[2]", percentvar}]
```

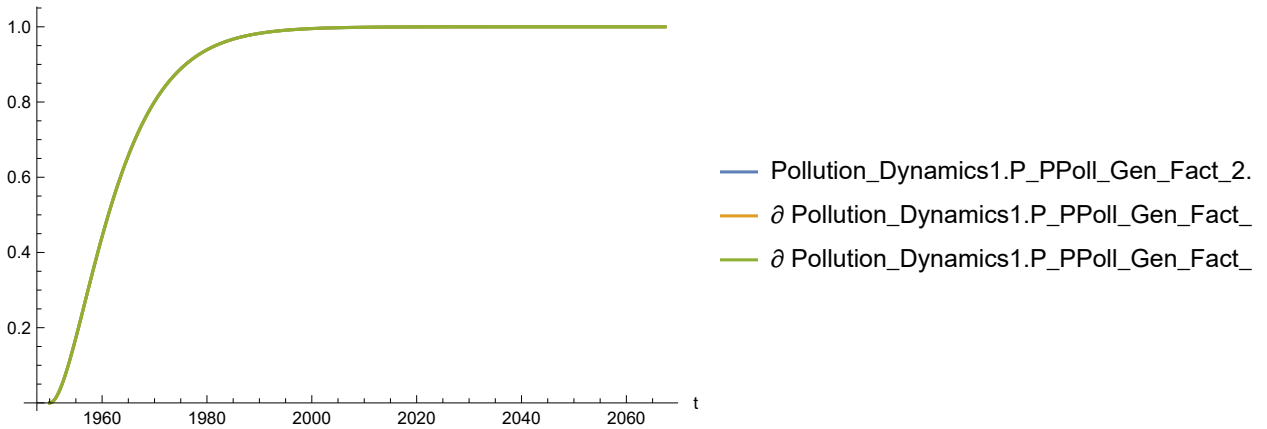
Out[259]=



In[260]:=

```
SystemModelPlot[simsensdata,
  {"Pollution_Dynamics1.P_PPoll_Gen_Fact_2.Smooth2.Integrator1.y",
   "Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[3]", percentvar}]
```

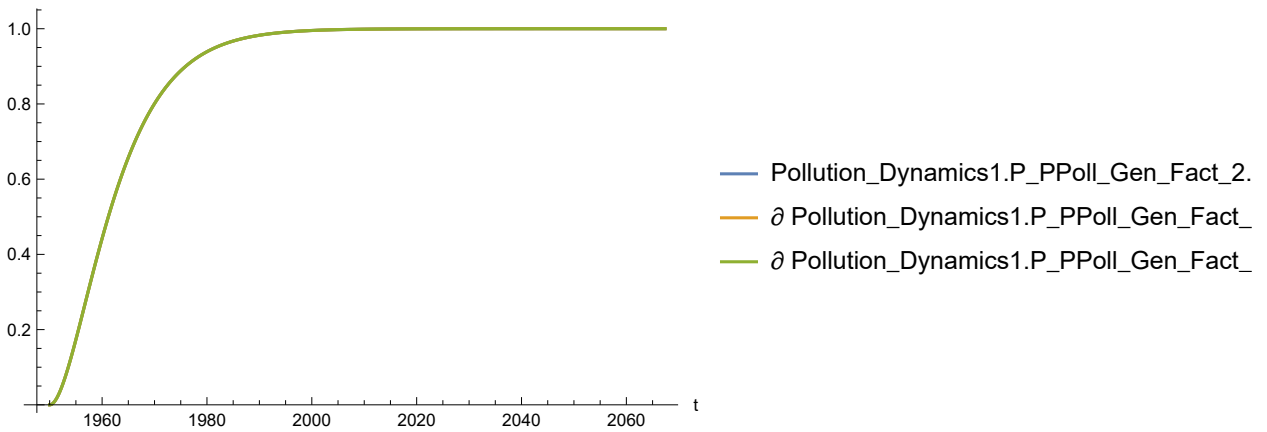
Out[260]=



In[261]:=

```
SystemModelPlot[simsensdata,
  {"Pollution_Dynamics1.P_PPoll_Gen_Fact_2.Smooth2.Integrator1.y",
   "Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[4]", percentvar}]
```

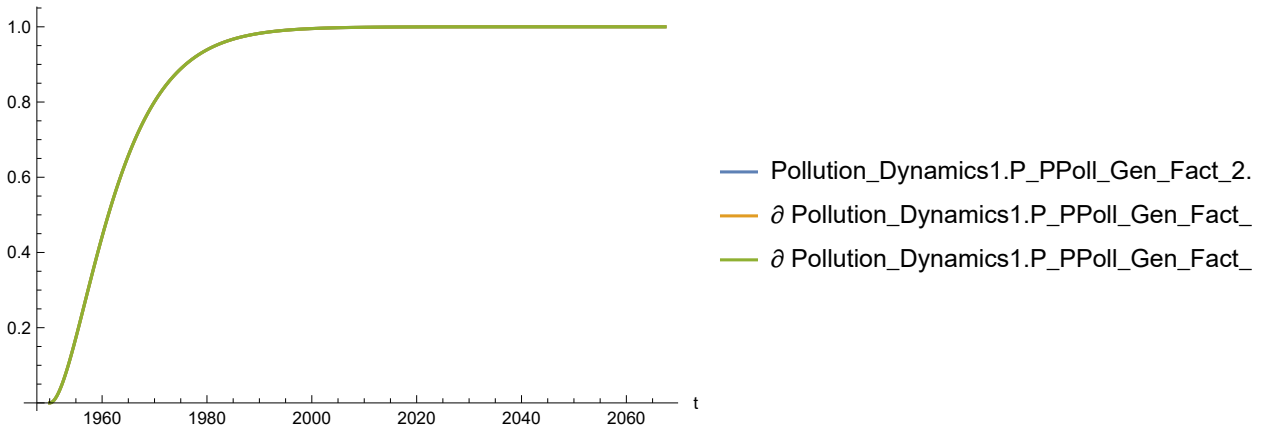
Out[261]=



In[262]:=

```
SystemModelPlot[simsensdata,
  {"Pollution_Dynamics1.P_PPoll_Gen_Fact_2.Smooth2.Integrator1.y",
   "Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[5]", percentvar}]
```

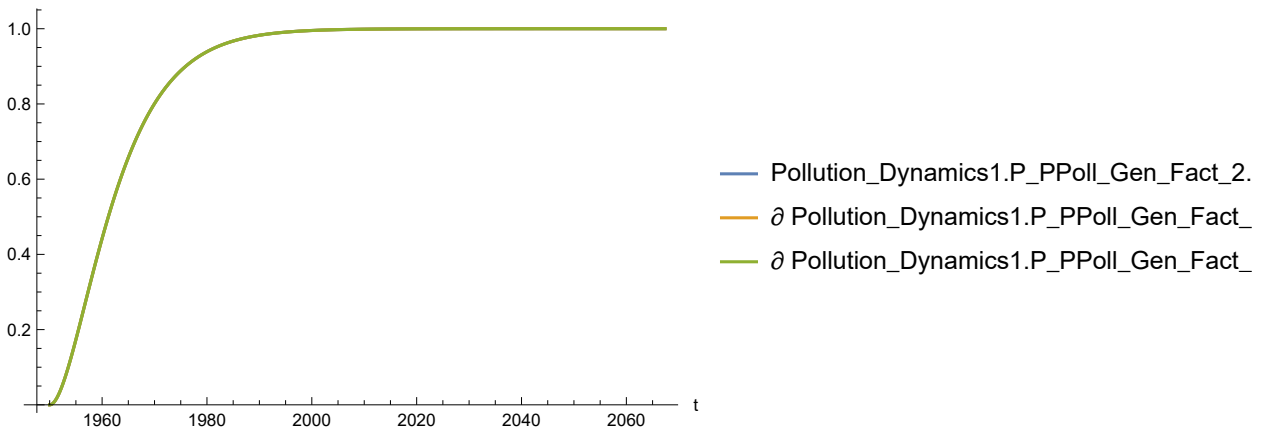
Out[262]=



In[263]:=

```
SystemModelPlot[simsensdata,
  {"Pollution_Dynamics1.P_PPoll_Gen_Fact_2.Smooth2.Integrator1.y",
   "Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[6]", percentvar}]
```

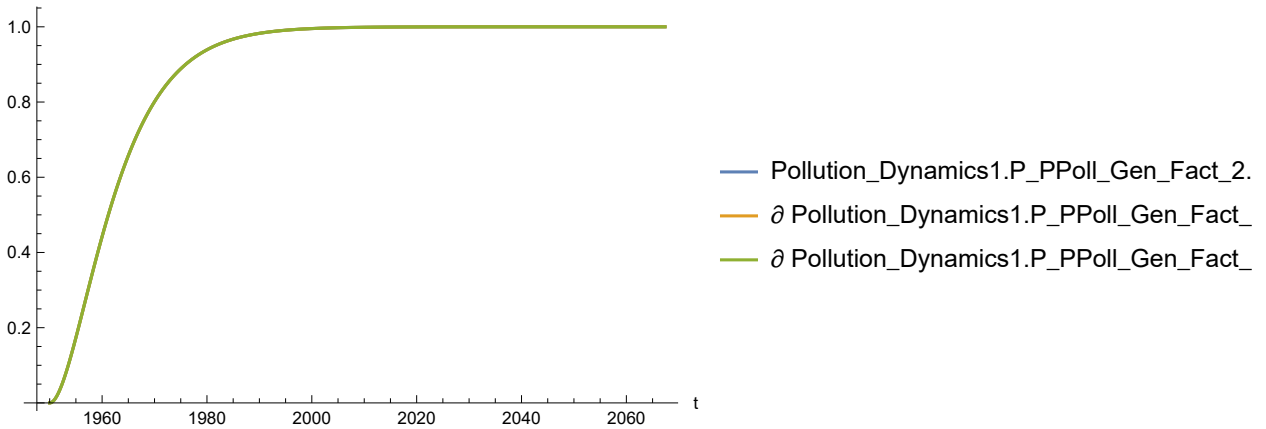
Out[263]=



In[264]:=

```
SystemModelPlot[simsensdata,
  {"Pollution_Dynamics1.P_PPoll_Gen_Fact_2.Smooth2.Integrator1.y",
   "Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[7]", percentvar}]
```

Out[264]=

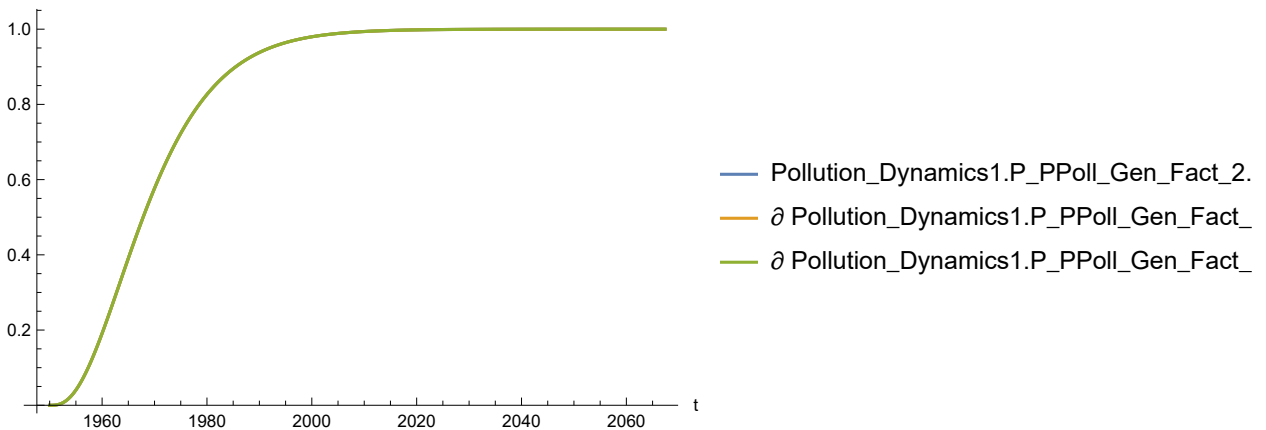


Plot the sensitivity of `Pollution_Dynamics1.P_PPoll_Gen_Fact_2.Smooth3.Integrator1.y` to `Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals`.

In[265]:=

```
SystemModelPlot[simsensdata,
  {"Pollution_Dynamics1.P_PPoll_Gen_Fact_2.Smooth3.Integrator1.y",
   "Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[1]", percentvar}]
```

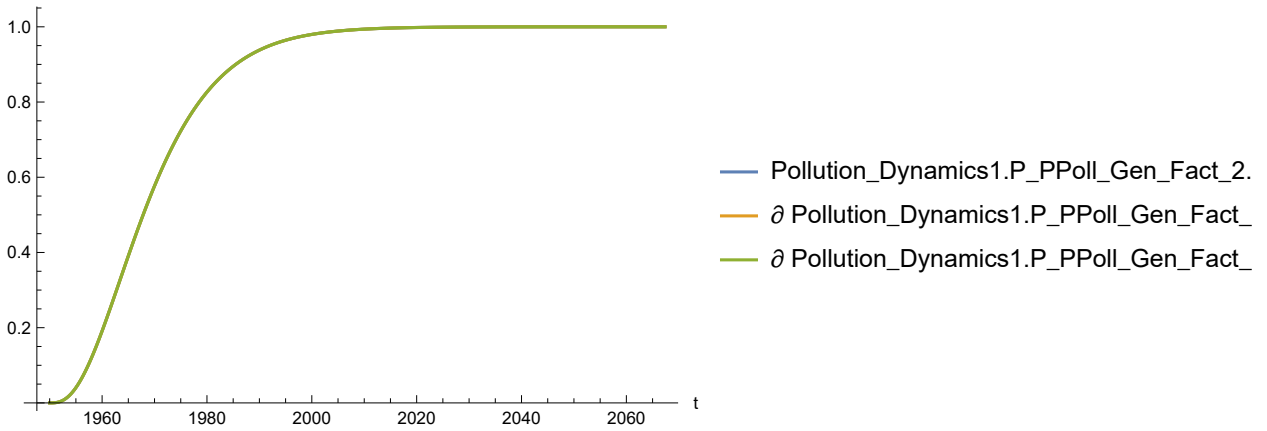
Out[265]=



In[266]:=

```
SystemModelPlot[simsensdata,
  {"Pollution_Dynamics1.P_PPoll_Gen_Fact_2.Smooth3.Integrator1.y",
   "Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[2]", percentvar}]
```

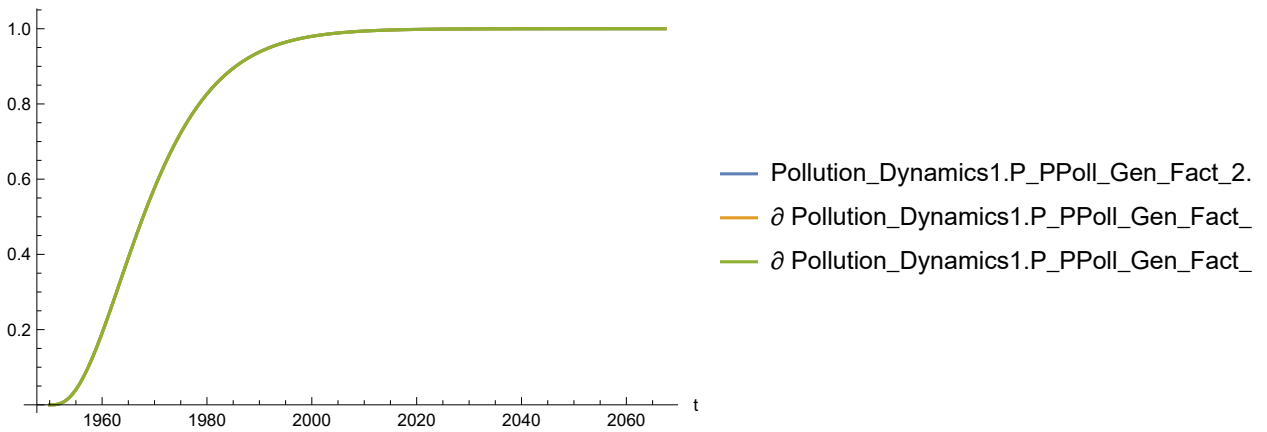
Out[266]=



In[267]:=

```
SystemModelPlot[simsensdata,
  {"Pollution_Dynamics1.P_PPoll_Gen_Fact_2.Smooth3.Integrator1.y",
   "Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[3]", percentvar}]
```

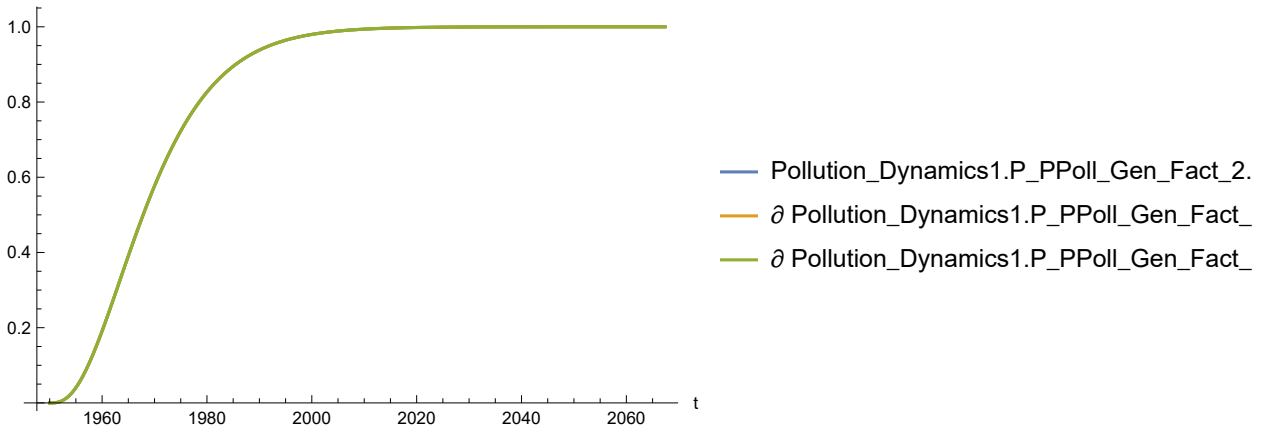
Out[267]=



In[268]:=

```
SystemModelPlot[simsensdata,
  {"Pollution_Dynamics1.P_PPoll_Gen_Fact_2.Smooth3.Integrator1.y",
   "Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[4]", percentvar}]
```

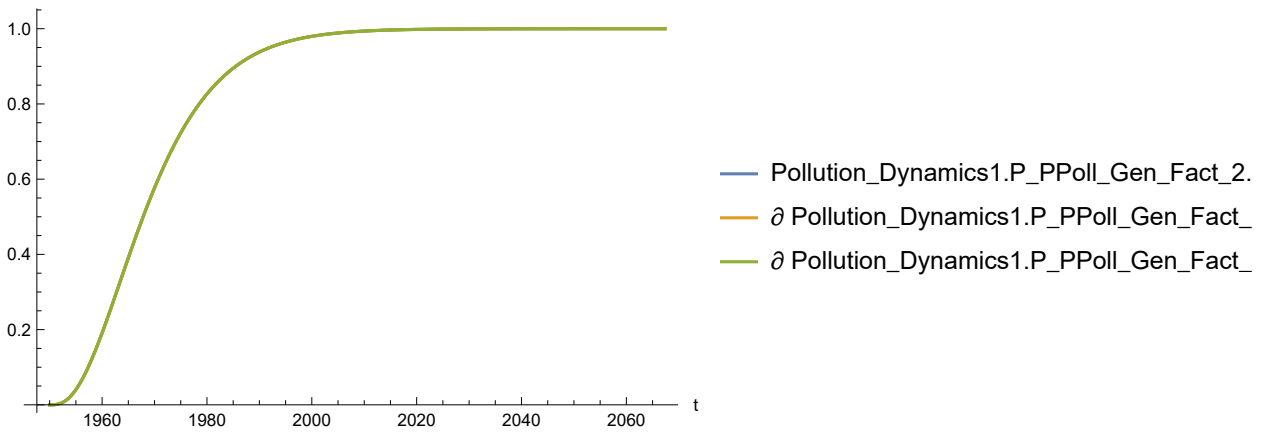
Out[268]=



In[269]:=

```
SystemModelPlot[simsensdata,
  {"Pollution_Dynamics1.P_PPoll_Gen_Fact_2.Smooth3.Integrator1.y",
   "Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[5]", percentvar}]
```

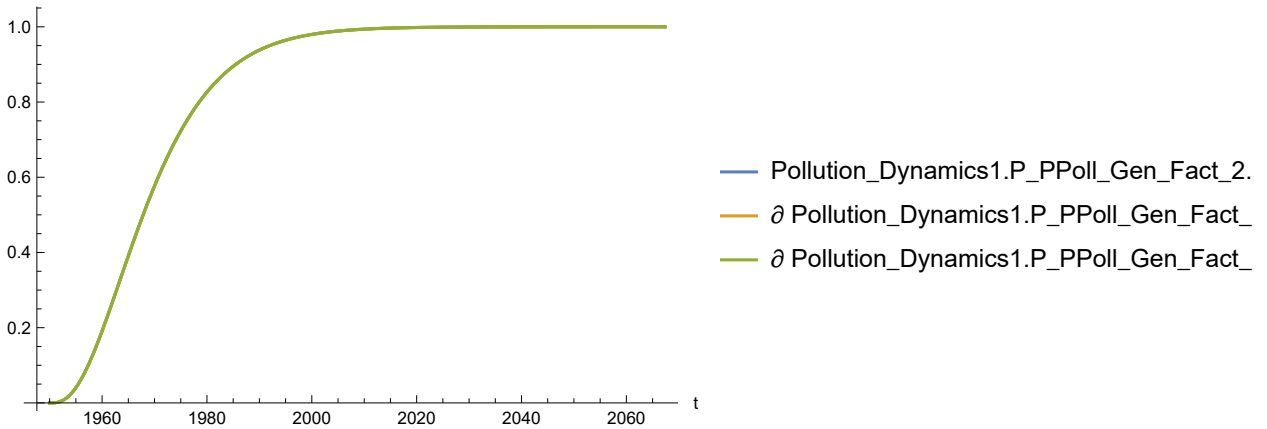
Out[269]=



In[270]:=

```
SystemModelPlot[simsensdata,
  {"Pollution_Dynamics1.P_PPoll_Gen_Fact_2.Smooth3.Integrator1.y",
   "Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[6]", percentvar}]
```

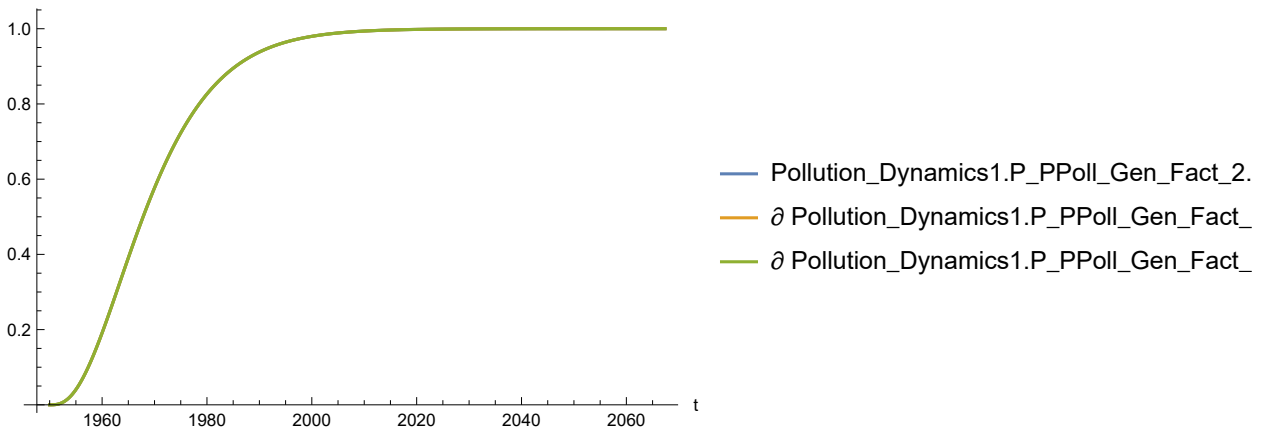
Out[270]=



In[271]:=

```
SystemModelPlot[simsensdata,
  {"Pollution_Dynamics1.P_PPoll_Gen_Fact_2.Smooth3.Integrator1.y",
   "Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[7]", percentvar}]
```

Out[271]=

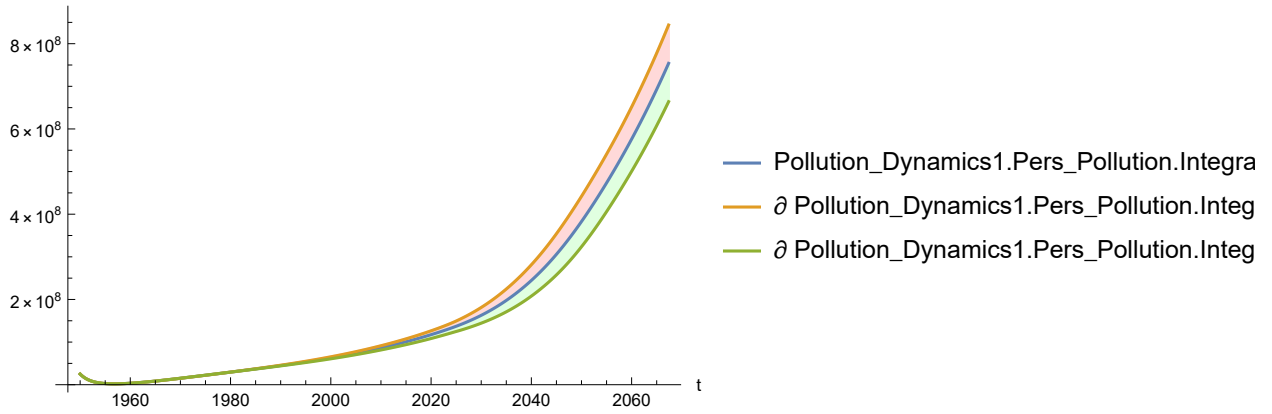


Plot the sensitivity of Pollution_Dynamics1.Pers_Pollution.Integrator1.y to Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals.

In[272]:=

```
SystemModelPlot[simsensdata, {"Pollution_Dynamics1.Pers_Pollution.Integrator1.y",
"Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[1]", percentvar}]
```

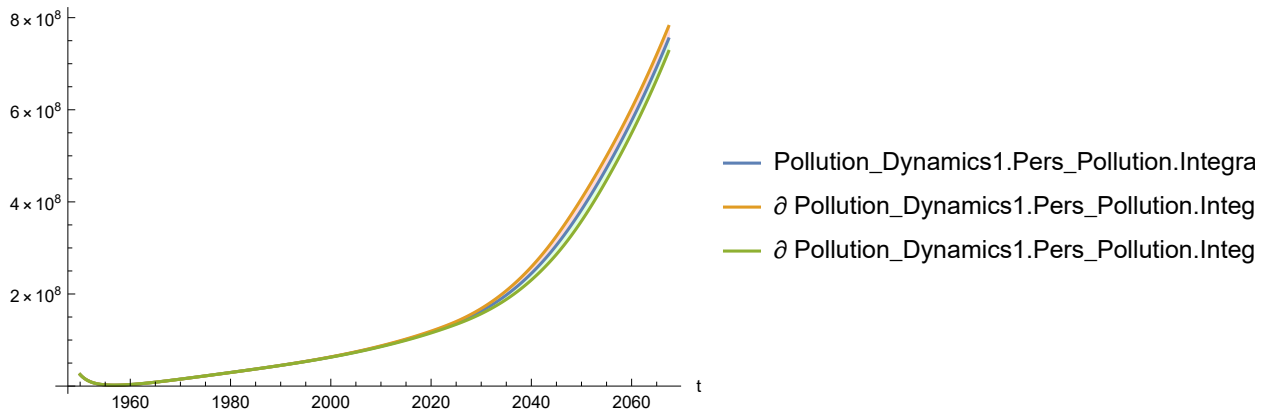
Out[272]=



In[273]:=

```
SystemModelPlot[simsensdata, {"Pollution_Dynamics1.Pers_Pollution.Integrator1.y",
"Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[2]", percentvar}]
```

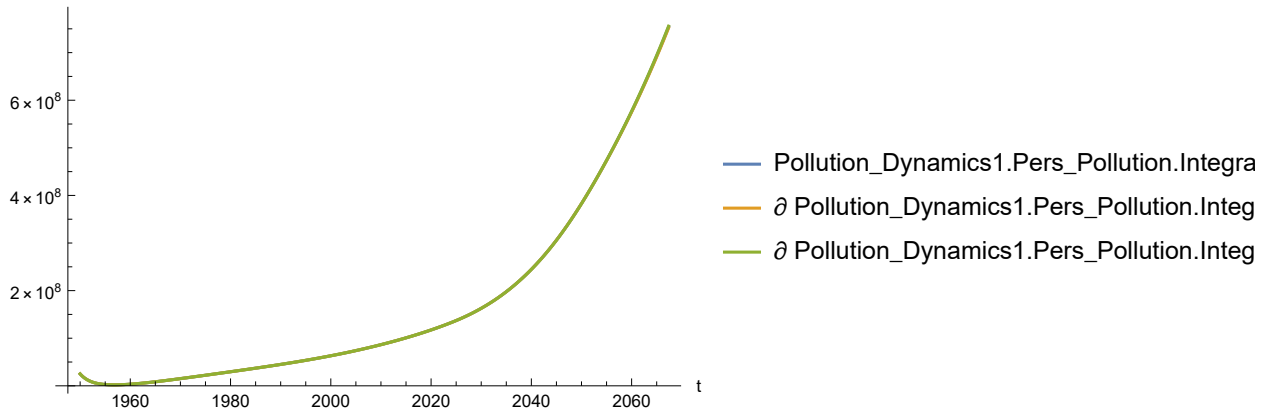
Out[273]=



In[274]:=

```
SystemModelPlot[simsensdata, {"Pollution_Dynamics1.Pers_Pollution.Integrator1.y",
"Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[3]", percentvar}]
```

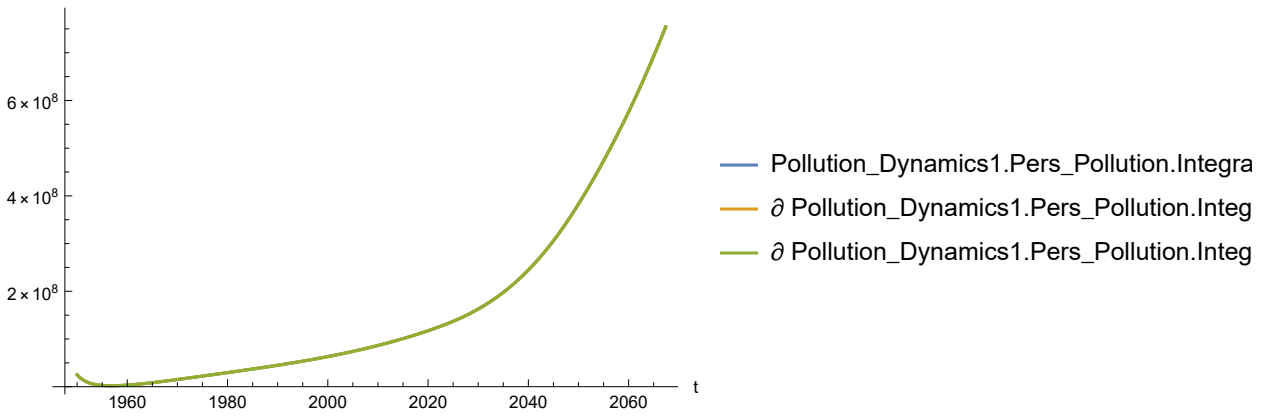
Out[274]=



In[275]:=

```
SystemModelPlot[simsensdata, {"Pollution_Dynamics1.Pers_Pollution.Integrator1.y",
"Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[4]", percentvar}]
```

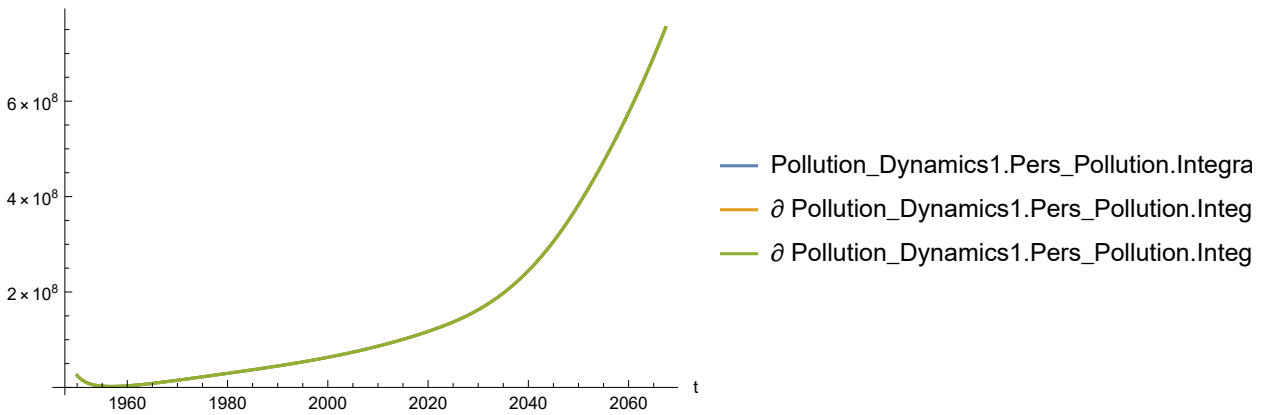
Out[275]=



In[276]:=

```
SystemModelPlot[simsensdata, {"Pollution_Dynamics1.Pers_Pollution.Integrator1.y",
"Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[5]", percentvar}]
```

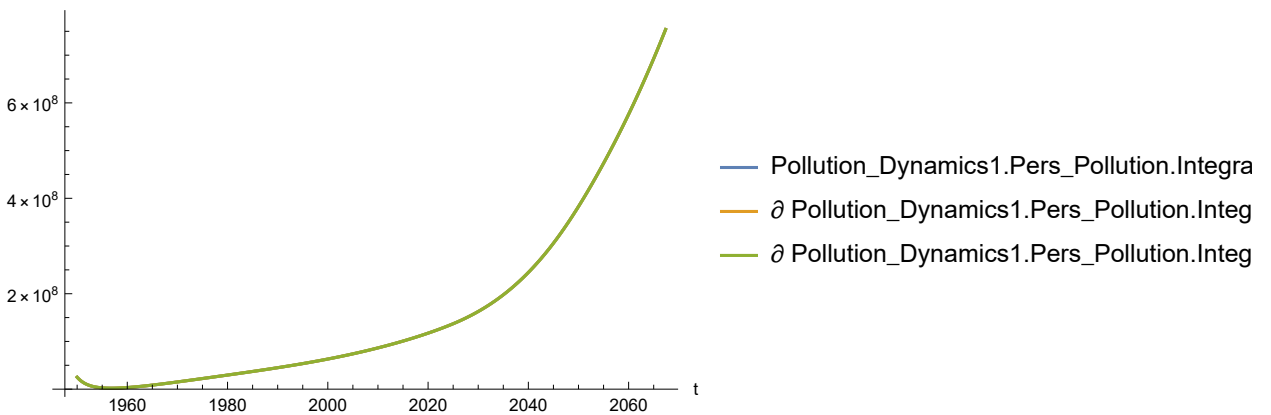
Out[276]=



In[277]:=

```
SystemModelPlot[simsensdata, {"Pollution_Dynamics1.Pers_Pollution.Integrator1.y",
"Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[6]", percentvar}]
```

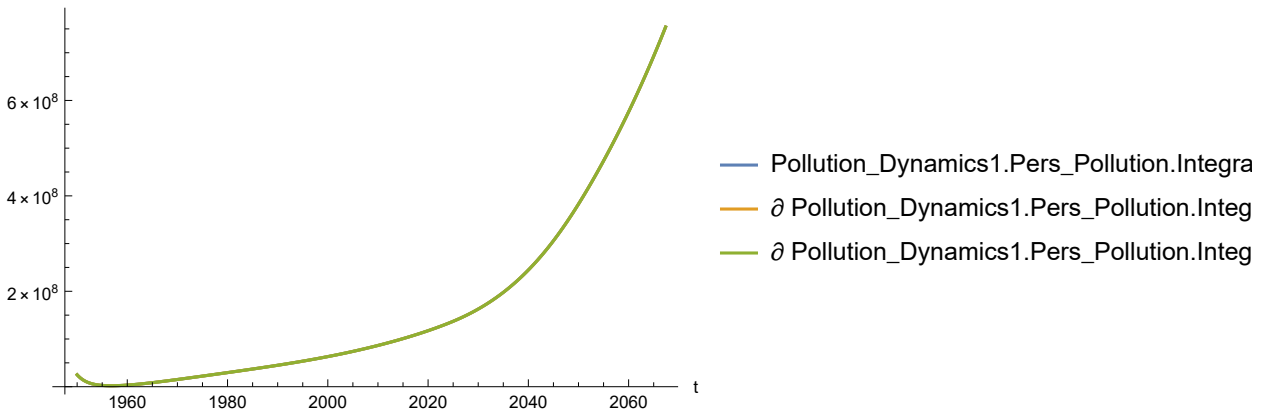
Out[277]=



In[278]:=

```
SystemModelPlot[simsensdata, {"Pollution_Dynamics1.Pers_Pollution.Integrator1.y",
"Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[7]", percentvar}]
```

Out[278]:=

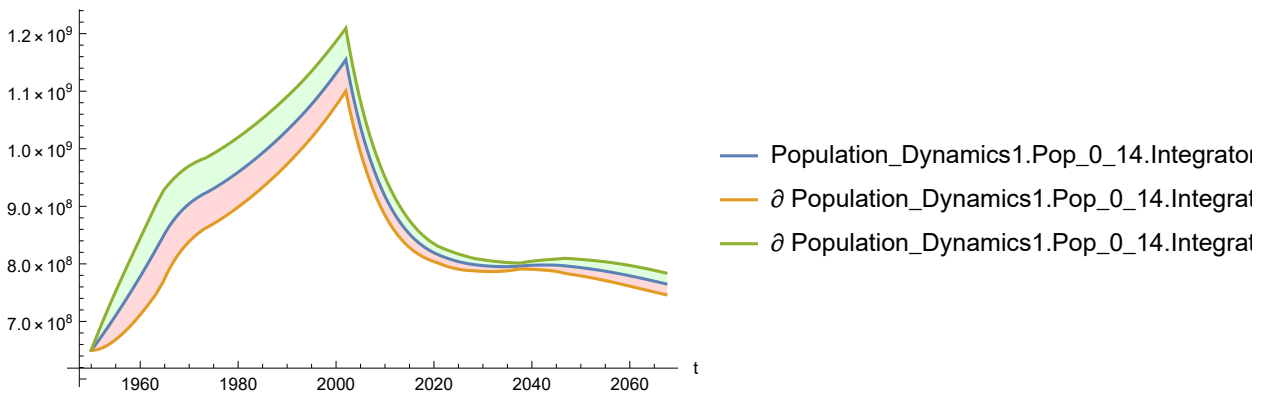


Plot sensitivity of population to **Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals**. In World3, popula- tion is divided into four subpopulations by age: 0-14 years, 15-44 years, 45-64 years, and 65 year and over.

In[279]:=

```
SystemModelPlot[simsensdata, {"Population_Dynamics1.Pop_0_14.Integrator1.y",
"Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[1]", percentvar}]
```

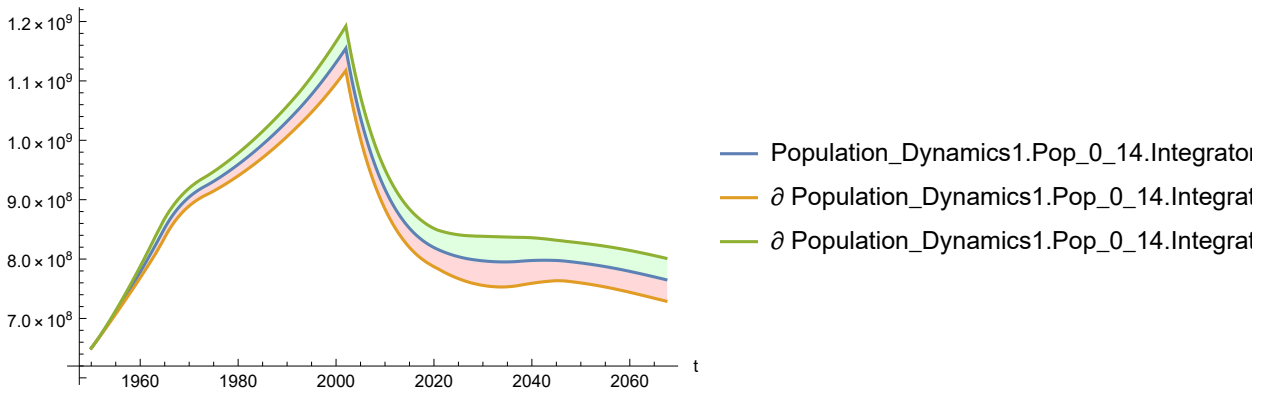
Out[279]:=



In[280]:=

```
SystemModelPlot[simsensdata, {"Population_Dynamics1.Pop_0_14.Integrator1.y",
"Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[2]", percentvar}]
```

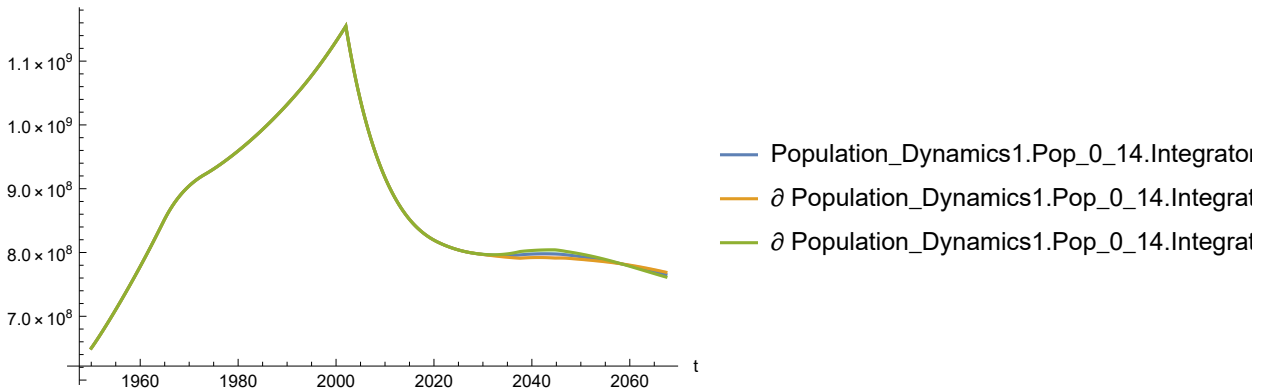
Out[280]=



In[281]:=

```
SystemModelPlot[simsensdata, {"Population_Dynamics1.Pop_0_14.Integrator1.y",
"Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[3]", percentvar}]
```

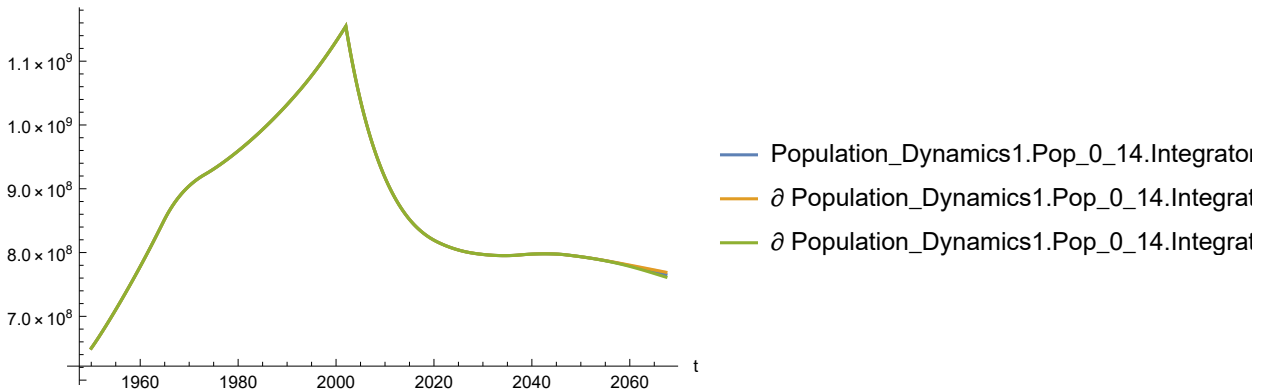
Out[281]=



In[282]:=

```
SystemModelPlot[simsensdata, {"Population_Dynamics1.Pop_0_14.Integrator1.y",
"Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[4]", percentvar}]
```

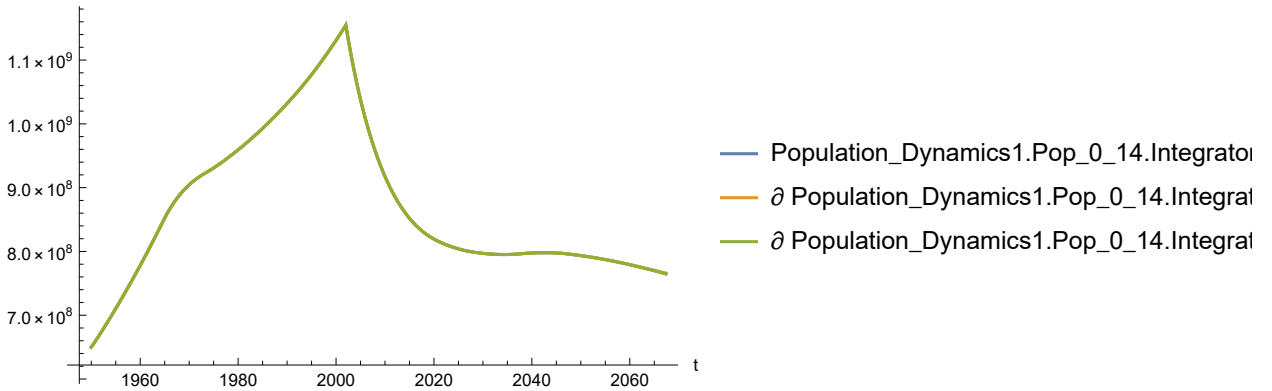
Out[282]=



In[283]:=

```
SystemModelPlot[simsensdata, {"Population_Dynamics1.Pop_0_14.Integrator1.y",
"Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[5]", percentvar}]
```

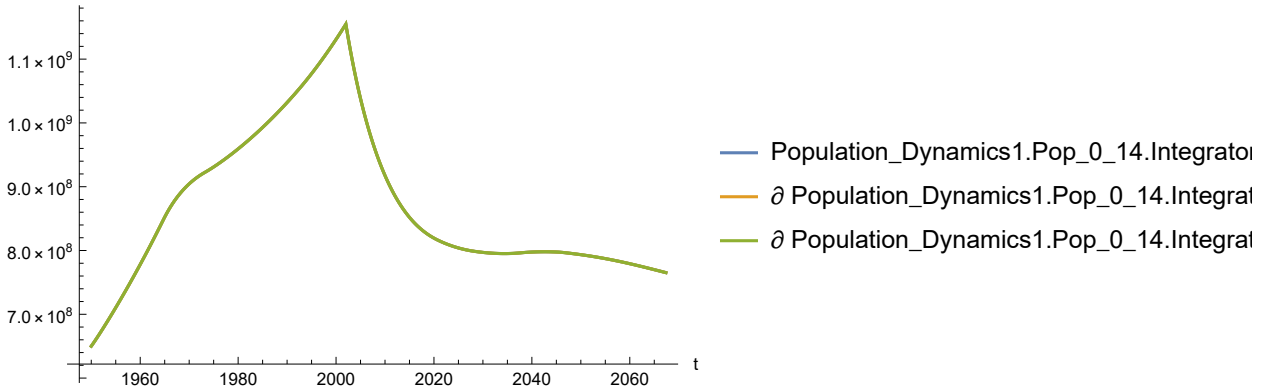
Out[283]:=



In[284]:=

```
SystemModelPlot[simsensdata, {"Population_Dynamics1.Pop_0_14.Integrator1.y",
"Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[6]", percentvar}]
```

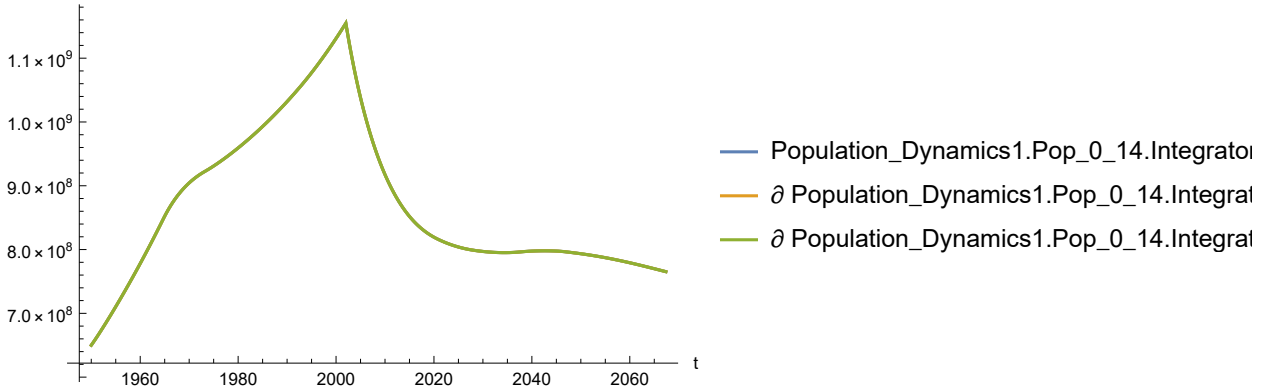
Out[284]:=



In[285]:=

```
SystemModelPlot[simsensdata, {"Population_Dynamics1.Pop_0_14.Integrator1.y",
"Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[7]", percentvar}]
```

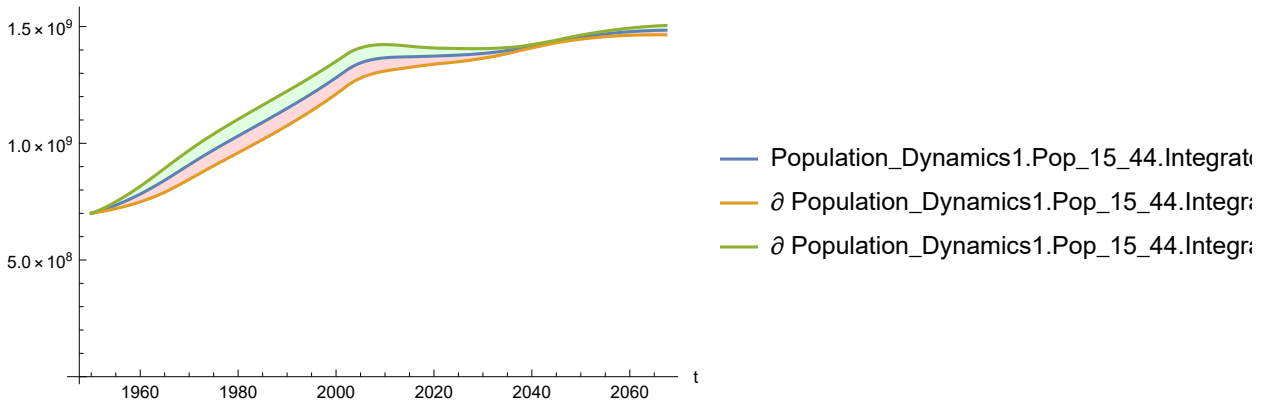
Out[285]:=



In[286]:=

```
SystemModelPlot[simsensdata, {"Population_Dynamics1.Pop_15_44.Integrator1.y",
"Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[1]", percentvar}]
```

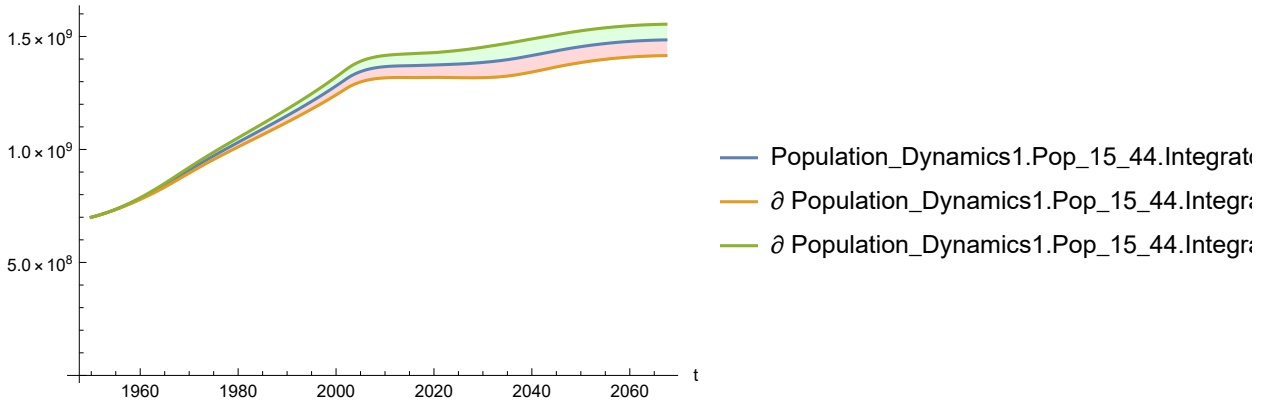
Out[286]=



In[287]:=

```
SystemModelPlot[simsensdata, {"Population_Dynamics1.Pop_15_44.Integrator1.y",
"Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[2]", percentvar}]
```

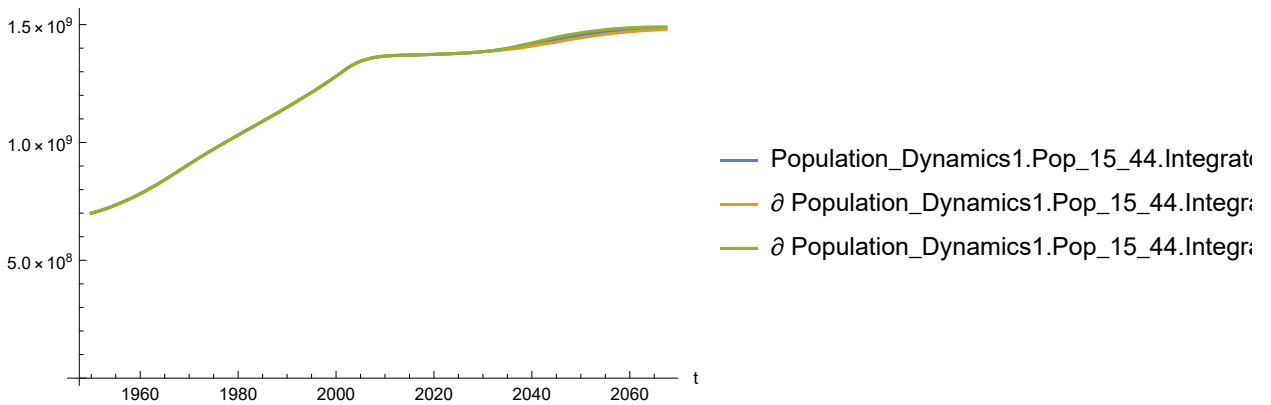
Out[287]=



In[288]:=

```
SystemModelPlot[simsensdata, {"Population_Dynamics1.Pop_15_44.Integrator1.y",
"Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[3]", percentvar}]
```

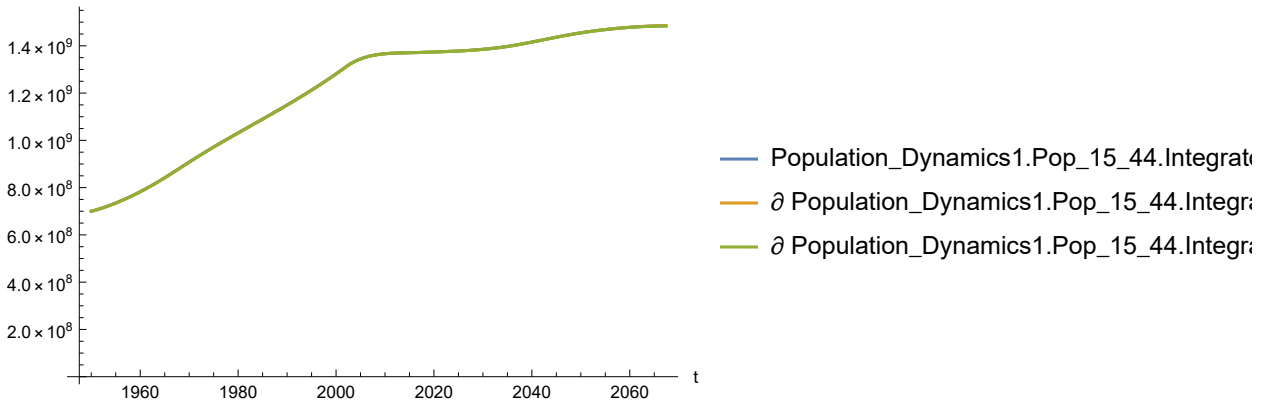
Out[288]=



In[289]:=

```
SystemModelPlot[simsensdata, {"Population_Dynamics1.Pop_15_44.Integrator1.y",
"Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[4]", percentvar}]
```

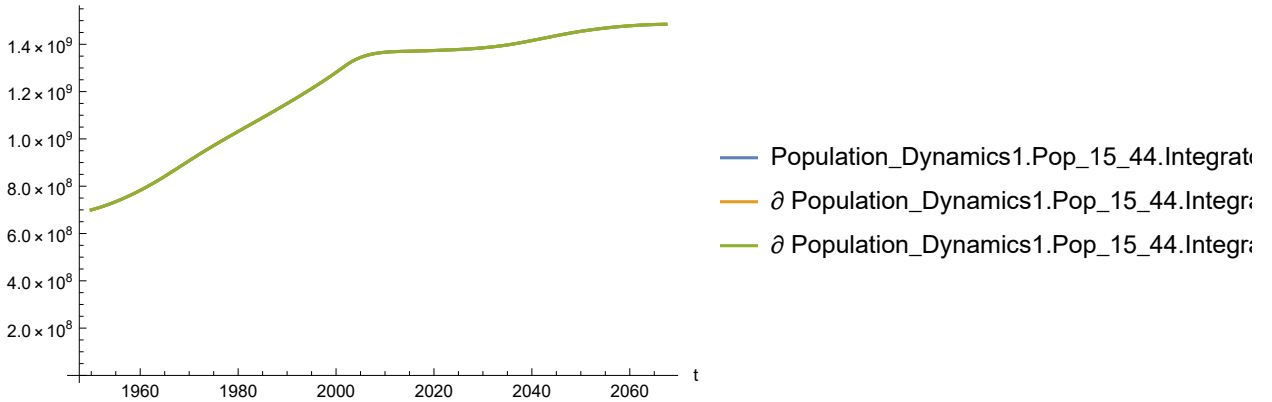
Out[289]=



In[290]:=

```
SystemModelPlot[simsensdata, {"Population_Dynamics1.Pop_15_44.Integrator1.y",
"Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[5]", percentvar}]
```

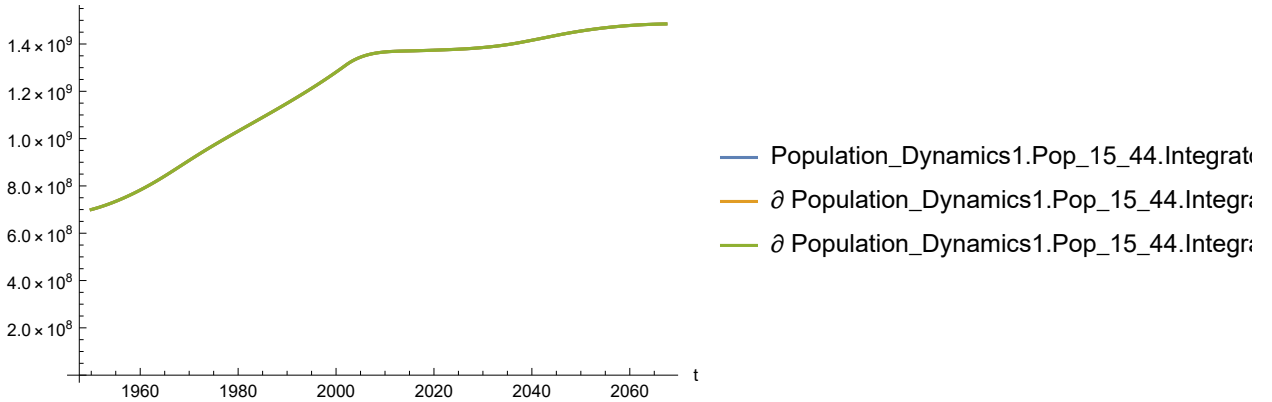
Out[290]=



In[291]:=

```
SystemModelPlot[simsensdata, {"Population_Dynamics1.Pop_15_44.Integrator1.y",
"Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[6]", percentvar}]
```

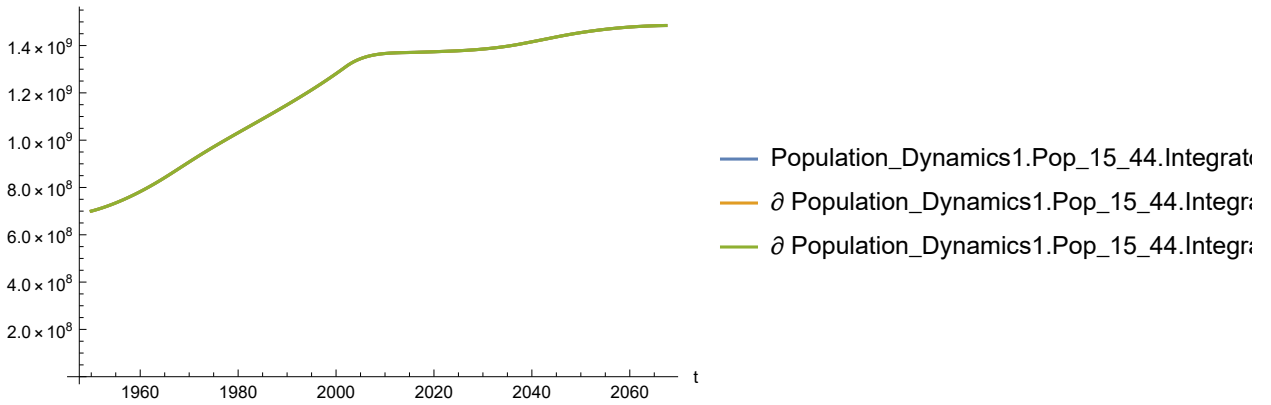
Out[291]=



In[292]:=

```
SystemModelPlot[simsensdata, {"Population_Dynamics1.Pop_15_44.Integrator1.y",
"Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[7]", percentvar}]
```

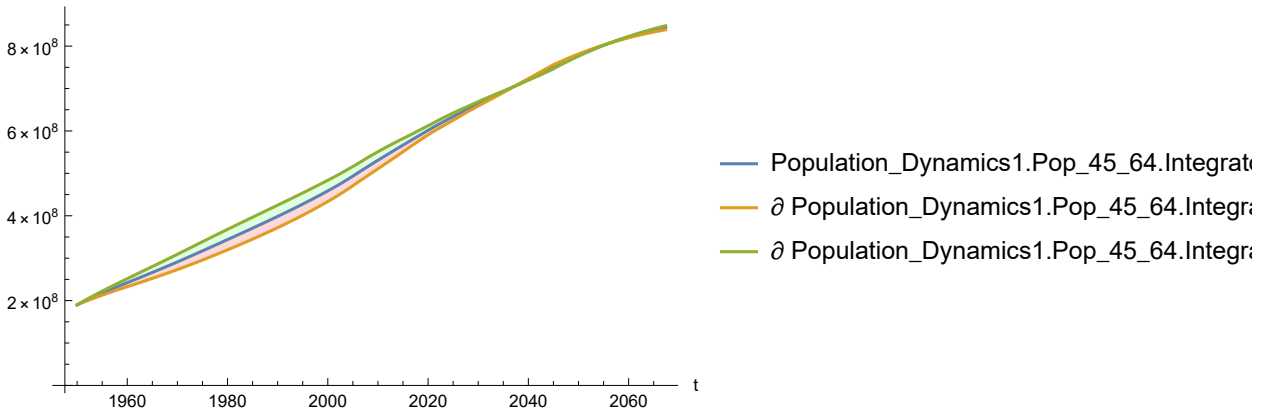
Out[292]=



In[293]:=

```
SystemModelPlot[simsensdata, {"Population_Dynamics1.Pop_45_64.Integrator1.y",
"Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[1]", percentvar}]
```

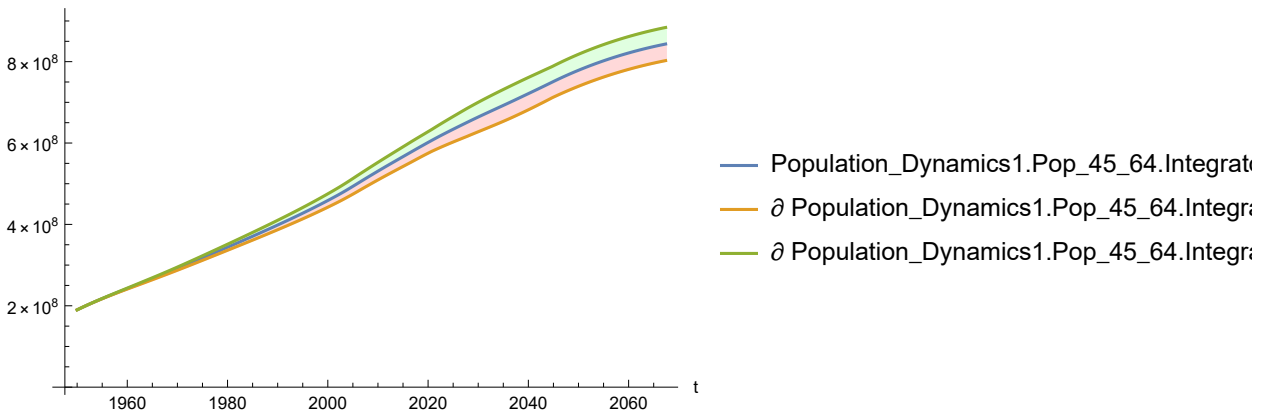
Out[293]=



In[294]:=

```
SystemModelPlot[simsensdata, {"Population_Dynamics1.Pop_45_64.Integrator1.y",
"Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[2]", percentvar}]
```

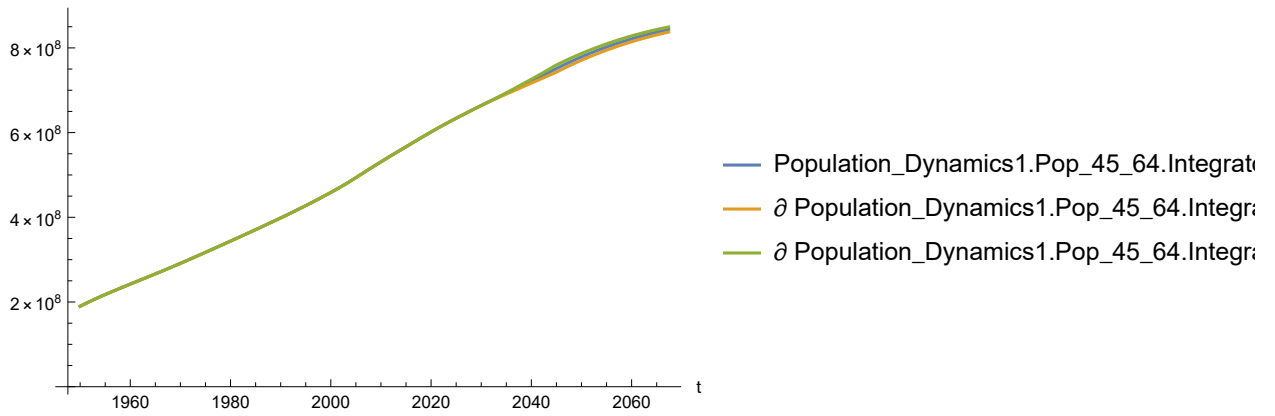
Out[294]=



In[295]:=

```
SystemModelPlot[simsensdata, {"Population_Dynamics1.Pop_45_64.Integrator1.y",
"Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[3]", percentvar}]
```

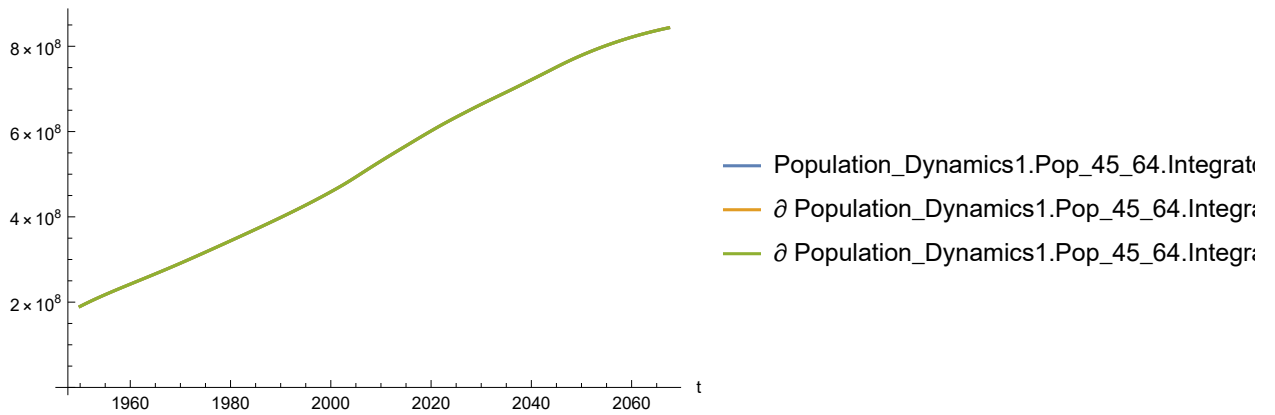
Out[295]=



In[296]:=

```
SystemModelPlot[simsensdata, {"Population_Dynamics1.Pop_45_64.Integrator1.y",
"Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[4]", percentvar}]
```

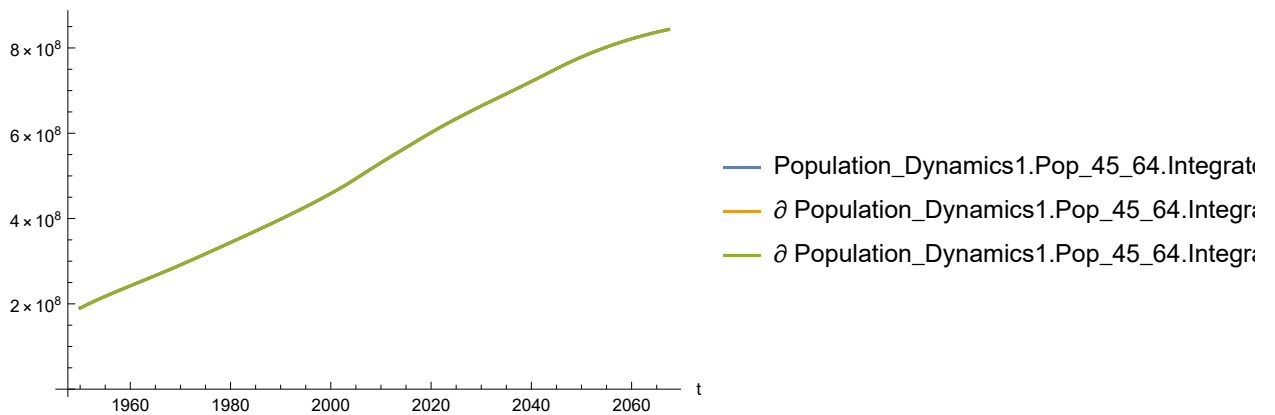
Out[296]=



In[297]:=

```
SystemModelPlot[simsensdata, {"Population_Dynamics1.Pop_45_64.Integrator1.y",
"Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[5]", percentvar}]
```

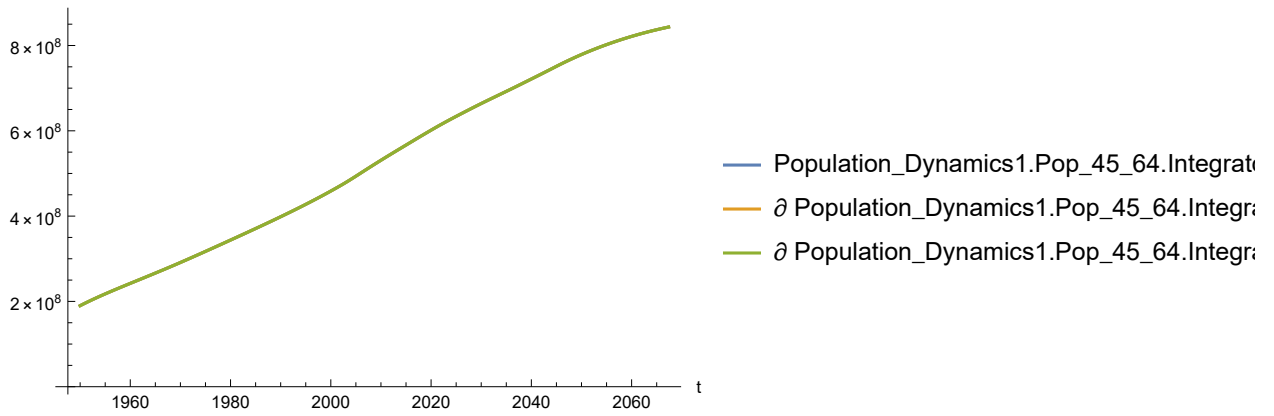
Out[297]=



In[298]:=

```
SystemModelPlot[simsensdata, {"Population_Dynamics1.Pop_45_64.Integrator1.y",
"Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[6]", percentvar}]
```

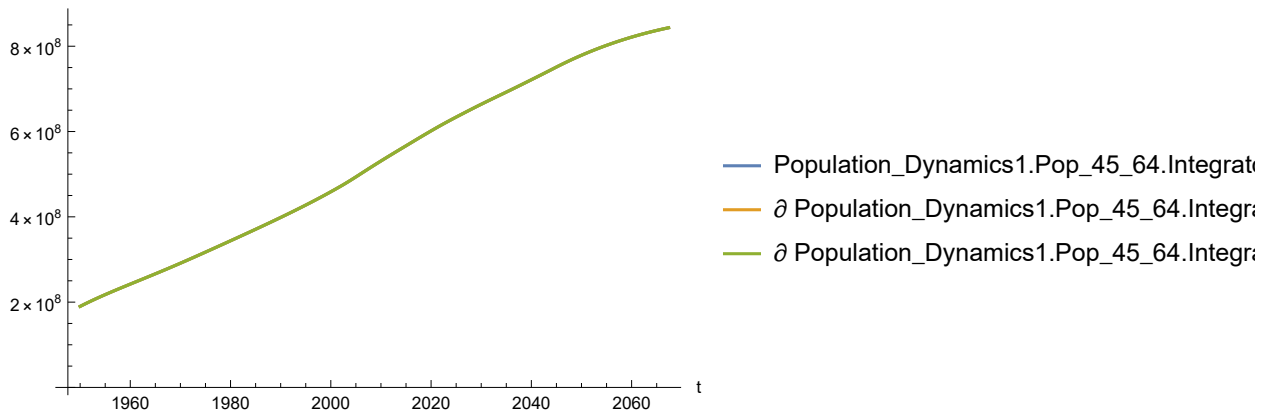
Out[298]=



In[299]:=

```
SystemModelPlot[simsensdata, {"Population_Dynamics1.Pop_45_64.Integrator1.y",
"Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[7]", percentvar}]
```

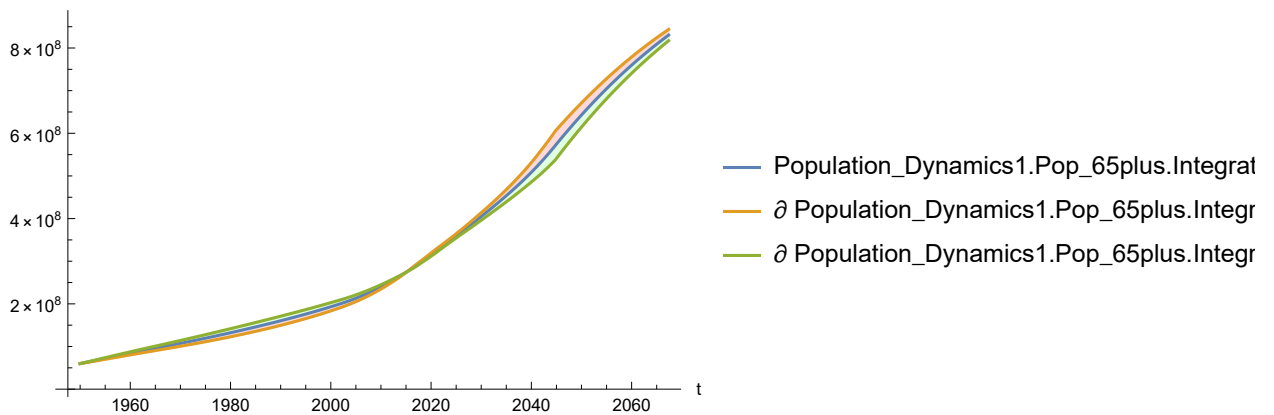
Out[299]=



In[300]:=

```
SystemModelPlot[simsensdata, {"Population_Dynamics1.Pop_65plus.Integrator1.y",
"Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[1]", percentvar}]
```

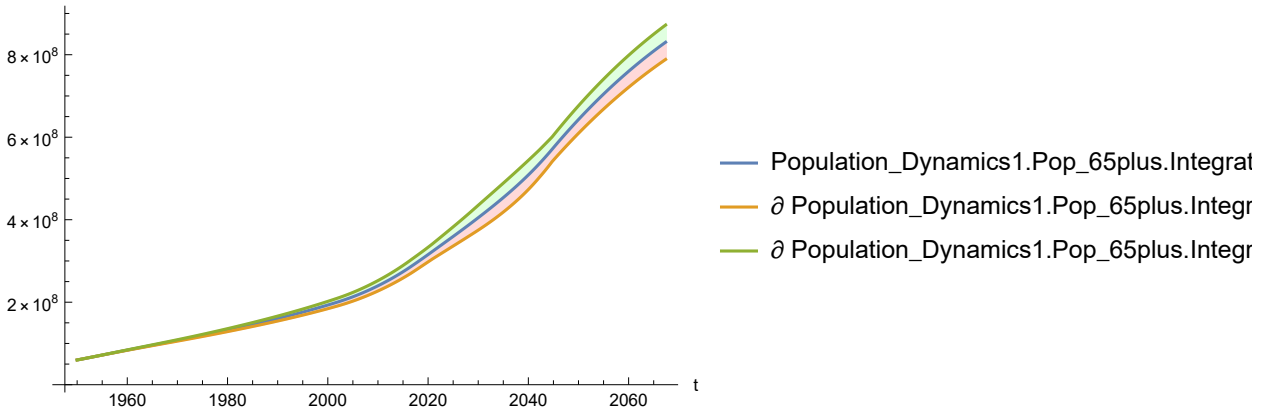
Out[300]=



In[301]:=

```
SystemModelPlot[simsensdata, {"Population_Dynamics1.Pop_65plus.Integrator1.y",
"Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[2]", percentvar}]
```

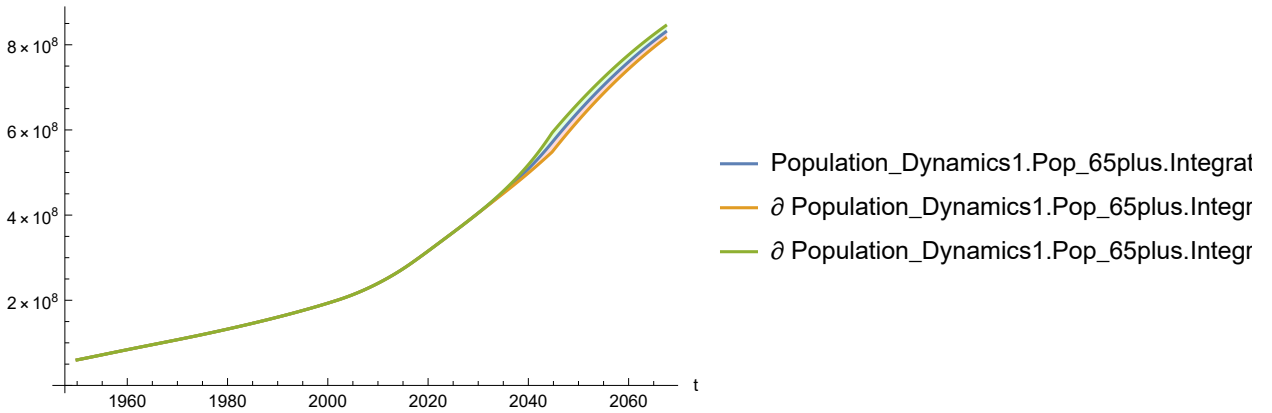
Out[301]=



In[302]:=

```
SystemModelPlot[simsensdata, {"Population_Dynamics1.Pop_65plus.Integrator1.y",
"Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[3]", percentvar}]
```

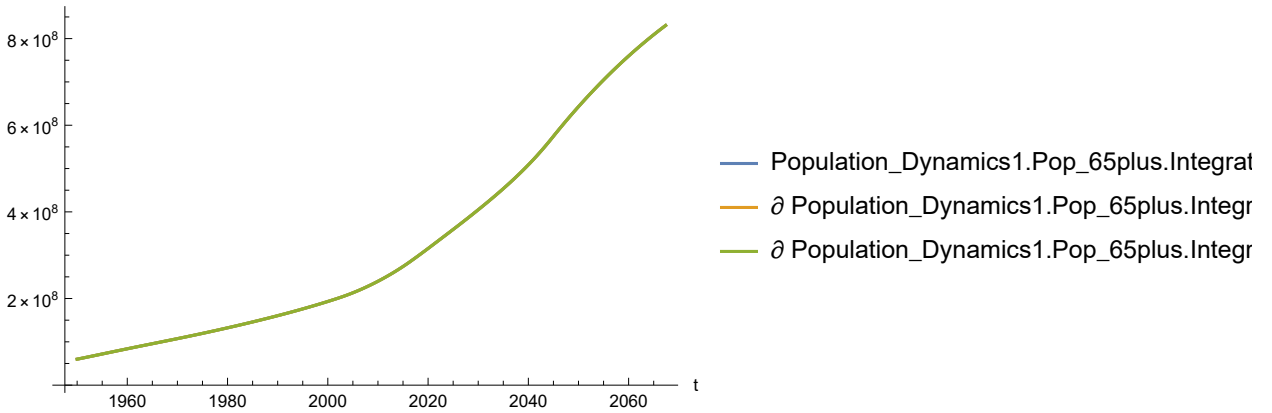
Out[302]=



In[303]:=

```
SystemModelPlot[simsensdata, {"Population_Dynamics1.Pop_65plus.Integrator1.y",
"Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[4]", percentvar}]
```

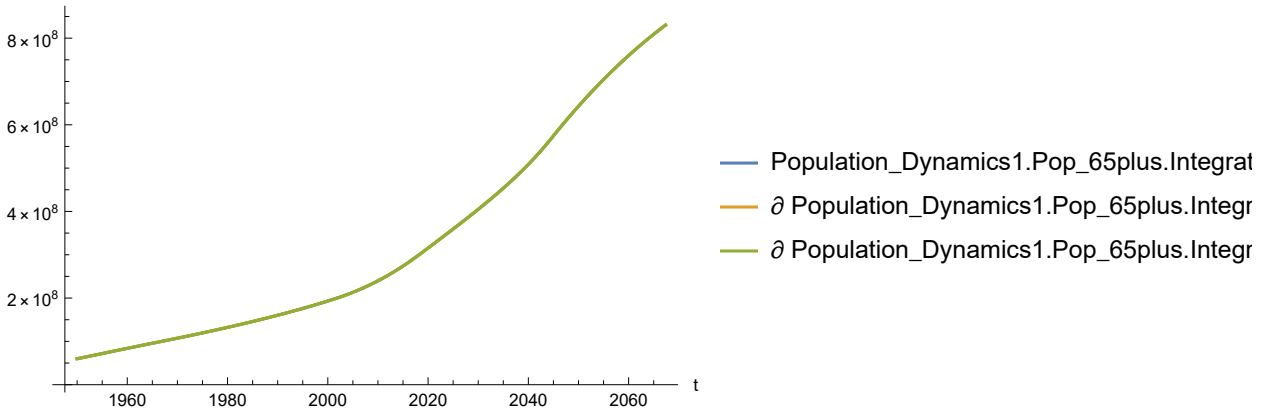
Out[303]=



In[304]:=

```
SystemModelPlot[simsensdata, {"Population_Dynamics1.Pop_65plus.Integrator1.y",
"Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[5]", percentvar}]
```

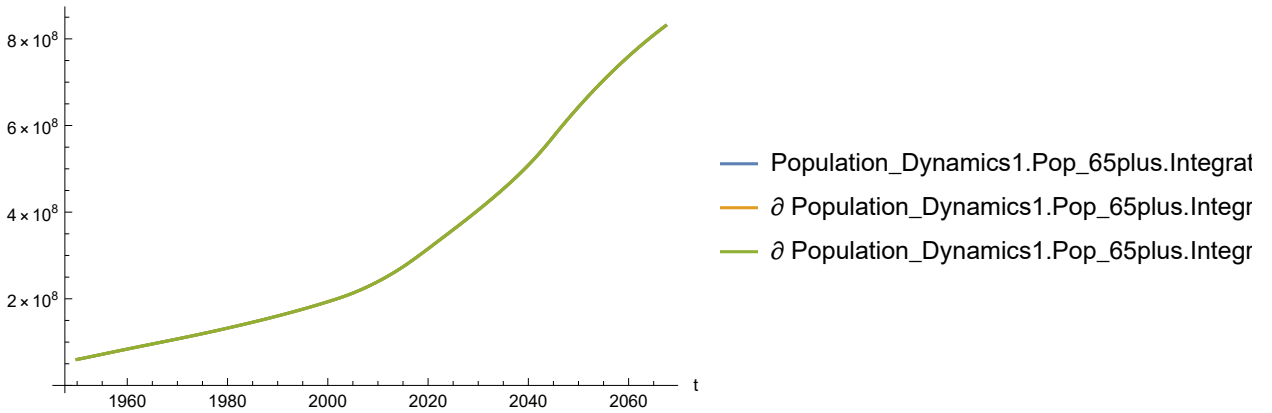
Out[304]=



In[305]:=

```
SystemModelPlot[simsensdata, {"Population_Dynamics1.Pop_65plus.Integrator1.y",
"Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[6]", percentvar}]
```

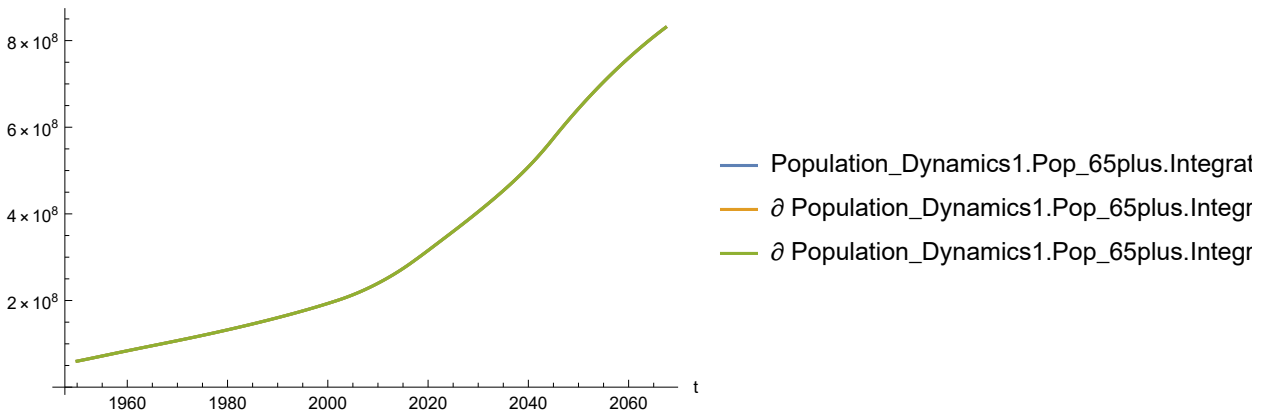
Out[305]=



In[306]:=

```
SystemModelPlot[simsensdata, {"Population_Dynamics1.Pop_65plus.Integrator1.y",
"Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[7]", percentvar}]
```

Out[306]=

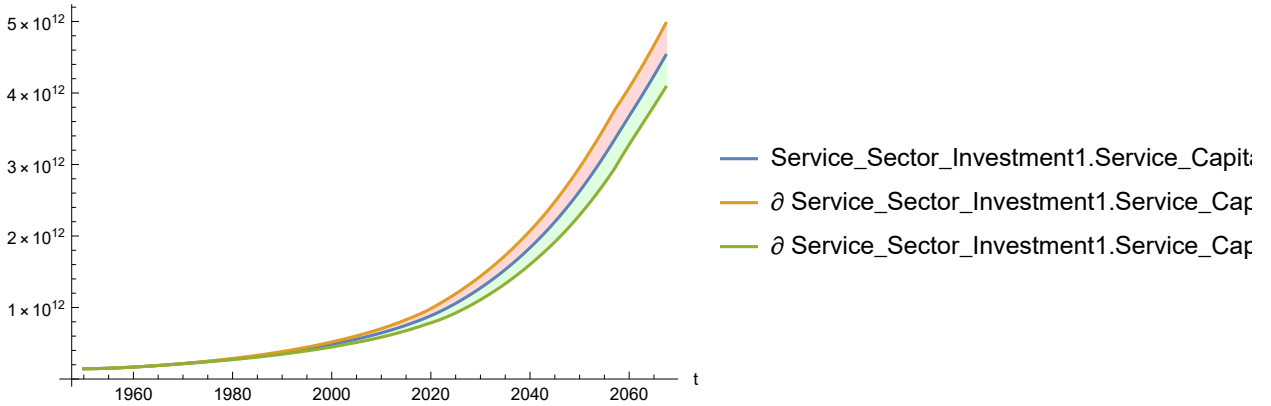


Plot sensitivity of Service_Sector_Investment1.Service_Capital.Integrator1.y to Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals.

In[307]:=

```
SystemModelPlot[simsensdata,
  {"Service_Sector_Investment1.Service_Capital.Integrator1.y",
   "Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[1]", percentvar}]
```

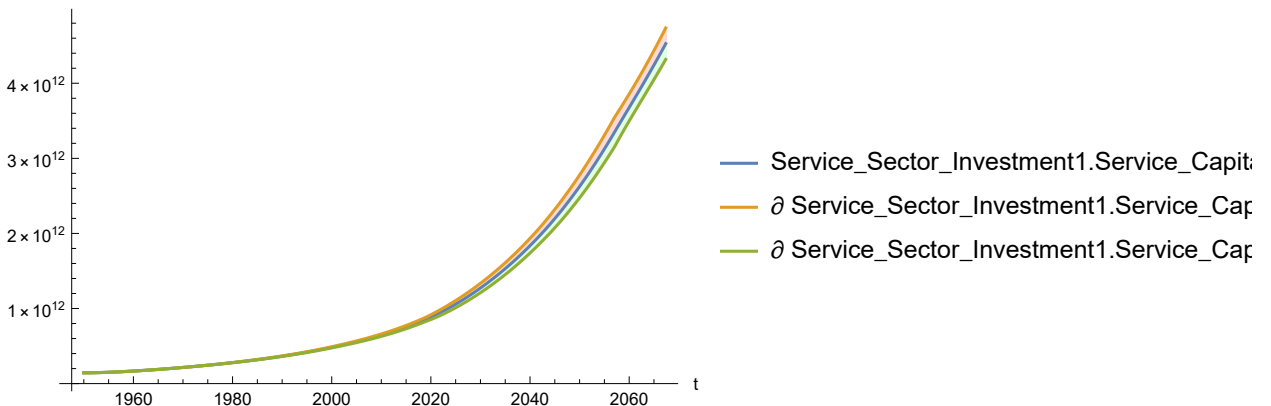
Out[307]=



In[308]:=

```
SystemModelPlot[simsensdata,
  {"Service_Sector_Investment1.Service_Capital.Integrator1.y",
   "Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[2]", percentvar}]
```

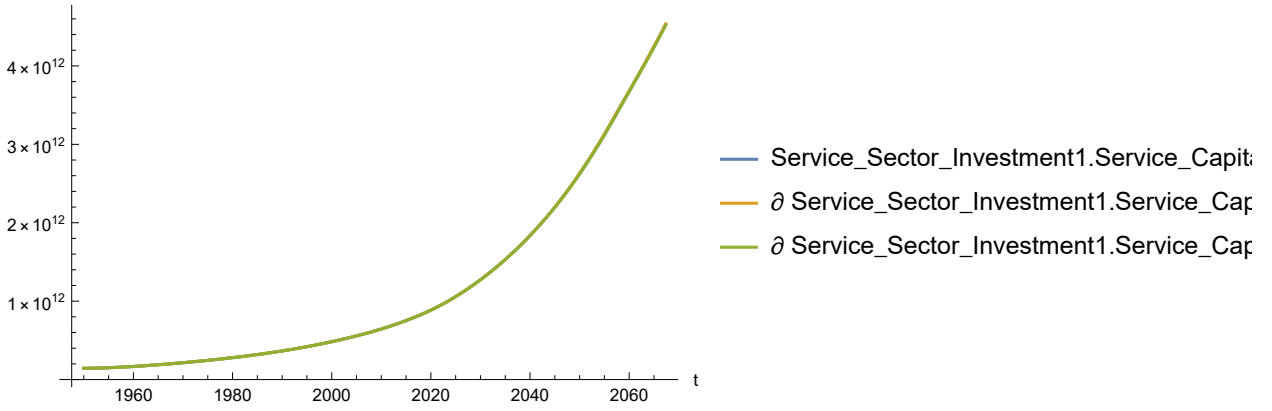
Out[308]=



In[309]:=

```
SystemModelPlot[simsensdata,
  {"Service_Sector_Investment1.Service_Capital.Integrator1.y",
   "Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[3]", percentvar}]
```

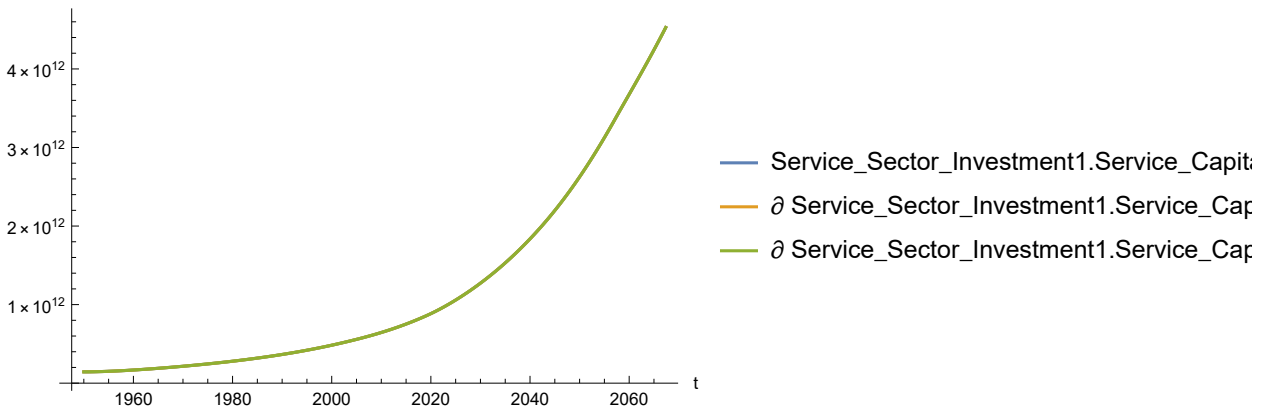
Out[309]=



In[310]:=

```
SystemModelPlot[simsensdata,
  {"Service_Sector_Investment1.Service_Capital.Integrator1.y",
   "Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[4]", percentvar}]
```

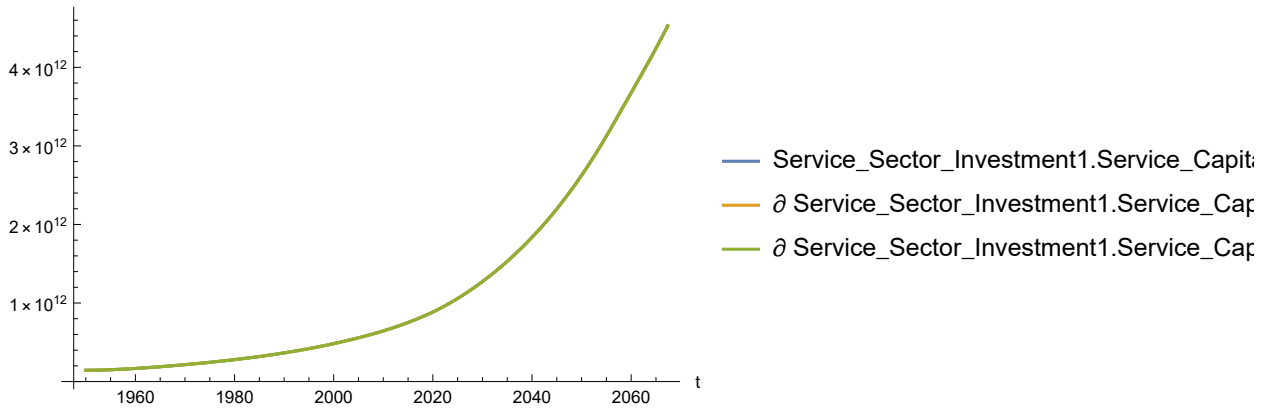
Out[310]=



In[311]:=

```
SystemModelPlot[simsensdata,
  {"Service_Sector_Investment1.Service_Capital.Integrator1.y",
   "Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[5]", percentvar}]
```

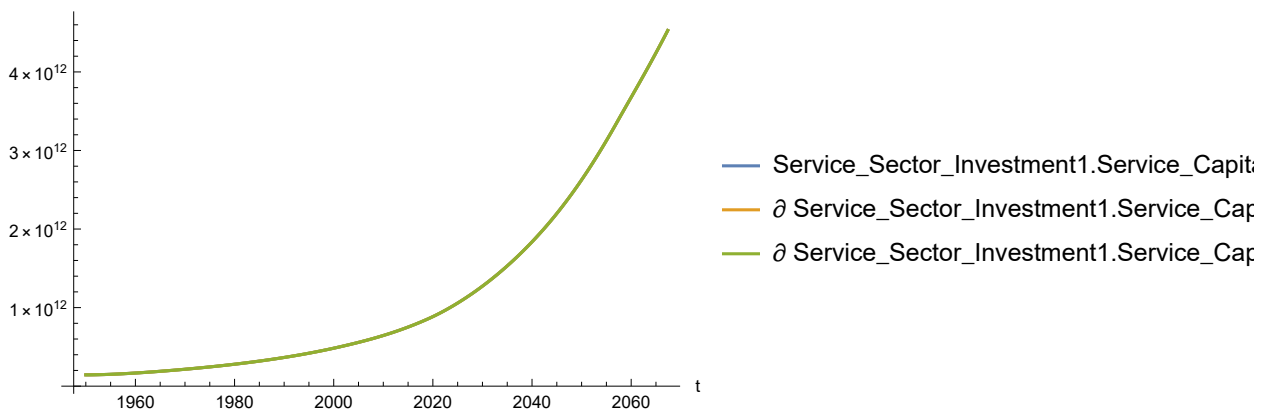
Out[311]=



In[312]:=

```
SystemModelPlot[simsensdata,
  {"Service_Sector_Investment1.Service_Capital.Integrator1.y",
   "Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[6]", percentvar}]
```

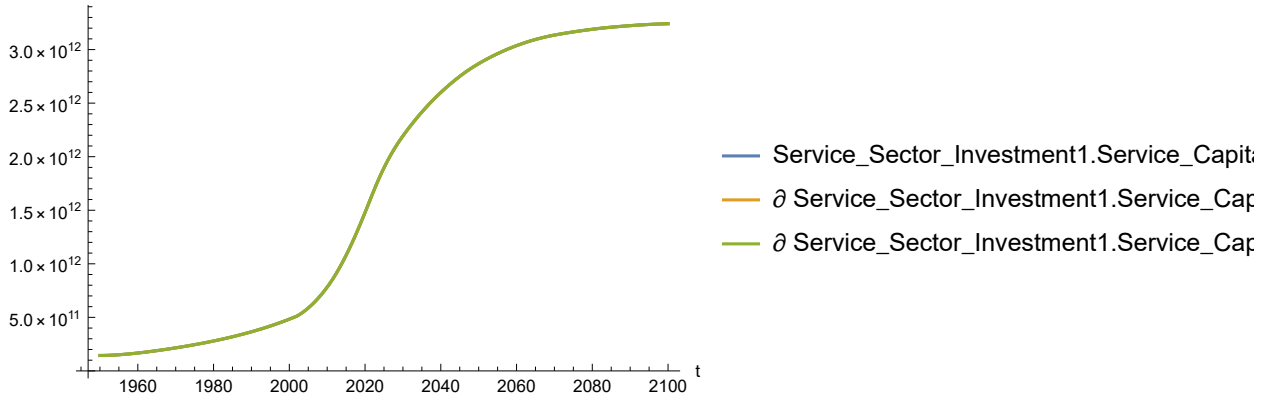
Out[312]=



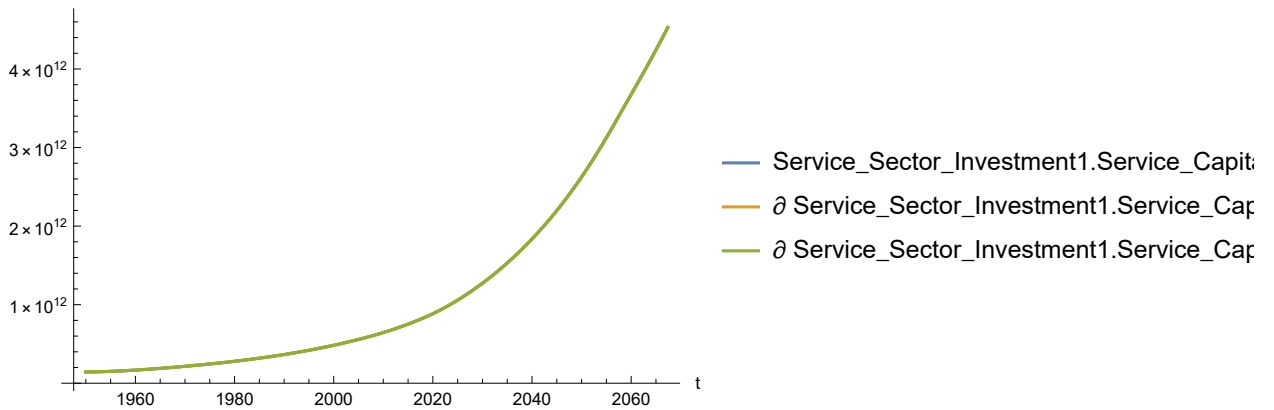
In[313]:=

```
SystemModelPlot[simsensdata,
  {"Service_Sector_Investment1.Service_Capital.Integrator1.y",
   "Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[7]", percentvar}]
```

Out[313]=



Out[313]=



Appendix 8. Experiment 8. Benchmark Scenario 8. Compute and plot sensitivity of various World3 variables to Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals values.

Last modified: 28 August 2022/0950 US CT.

Author: J. K. Horner
email: jhorner@cybermesa.com

Platform:

Windows 10

Wolfram Mathematica Home Version v13.1, dynamic updating enabled

Wolfram SystemModeler v12.0

Open Modelica v3.2.2

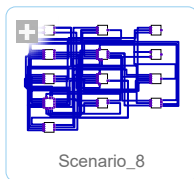
Microsoft Visual C++, version-compatible with the above

Load Benchmark Scenario 8.

In[2]=

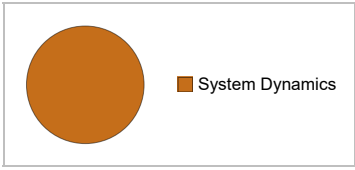
```
mysim = SystemModel["SystemDynamics.WorldDynamics.World3.Scenario_8"]
```

Out[2]=



Show high-level properties of the scenario.

In[3]:= **mysummary = mysim["Summary"]**

	Model	SystemDynamics.WorldDynamics.World3.Scenario_8
	Description	More abundant non-recoverable natural resources, birth control, and stable industrial output
	Simulation Interval	True
	Population	0
	Capital	106
	Budget	True
Out[3]=	Year	265
	Year	265
	Diagram	

Set percent variation. 0.1 = nominal +/- 10%.

In[4]:= **percentvar = 0.1**

Out[4]= 0.1

Show the default **Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals**.

In[5]:= **SystemModel[mysim] [**
{"ParameterValues", "Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[1]"}]

Out[5]= {Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[1] → 1}

In[6]:= **SystemModel[mysim] [**
{"ParameterValues", "Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[2]"}]

Out[6]= {Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[2] → 1.5}

In[7]:= **SystemModel[mysim] [**
{"ParameterValues", "Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[3]"}]

Out[7]= {Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[3] → 1.9}

In[8]:= **SystemModel[mysim] [**
{"ParameterValues", "Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[4]"}]

Out[8]= {Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[4] → 2}

```

In[9]:= SystemModel[mysim] [
  {"ParameterValues", "Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[5]"}]
Out[9]= {Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[5] → 2}

In[10]:= SystemModel[mysim] [
  {"ParameterValues", "Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[6]"}]
Out[10]= {Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[6] → 2}

In[11]:= SystemModel[mysim] [
  {"ParameterValues", "Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[7]"}]
Out[11]= {Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[7] → 2}


```

Retrieve all variables that **SystemModelSimulateSensitivity** says depend on **Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals**. Set scenario start at 1950 because various **SystemModel** functions have problems with a step function at scenario time 1940. (This is a World3-specific quirk.)

```

In[12]:= simsensdata = SystemModelSimulateSensitivity[mysim,
  {1950, 2100}, {"Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[1]",
  "Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[2]",
  "Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[3]",
  "Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[4]",
  "Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[5]",
  "Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[6]",
  "Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[7]"}]

```

 **SystemModelSimulateSensitivity**: At time 2002. s: An event occurred while performing sensitivity analysis. This may produce incorrect results depending on your model. Further similar warnings will not be displayed.

Out[12]=

```

SystemModelSimulationData [  Model: Scenario_8
  Time: 1.95 × 103 to 2.10 × 103 ]

```

Show the names of the World3 variables in **simsensdata** that **SystemModelSimulateSensitivity** recognizes.

```

In[13]:= simsensdata["SensitivityNames"]
Out[13]= {
  {Arable_Land_Dynamics1.Arable_Land.Integrator1.y,
  Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[1]},
  {Arable_Land_Dynamics1.Arable_Land.Integrator1.y,
  Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[2]},
  {Arable_Land_Dynamics1.Arable_Land.Integrator1.y,
  Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[3]},
  {Arable_Land_Dynamics1.Arable_Land.Integrator1.y,
  Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[4]},
  {Arable_Land_Dynamics1.Arable_Land.Integrator1.y,
  Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[5]},
  {Arable_Land_Dynamics1.Arable_Land.Integrator1.y,
  Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[6]},
  {Arable_Land_Dynamics1.Arable_Land.Integrator1.y,
  Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[7]}
}

```

```

Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[5]},
{Arable_Land_Dynamics1.Arable_Land.Integrator1.y,
Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[6]},
{Arable_Land_Dynamics1.Arable_Land.Integrator1.y,
Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[7]},
{Arable_Land_Dynamics1.Pot_Arable_Land.Integrator1.y,
Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[1]},
{Arable_Land_Dynamics1.Pot_Arable_Land.Integrator1.y,
Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[2]},
{Arable_Land_Dynamics1.Pot_Arable_Land.Integrator1.y,
Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[3]},
{Arable_Land_Dynamics1.Pot_Arable_Land.Integrator1.y,
Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[4]},
{Arable_Land_Dynamics1.Pot_Arable_Land.Integrator1.y,
Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[5]},
{Arable_Land_Dynamics1.Pot_Arable_Land.Integrator1.y,
Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[6]},
{Arable_Land_Dynamics1.Pot_Arable_Land.Integrator1.y,
Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[7]},
{Arable_Land_Dynamics1.Urban_Ind_Land.Integrator1.y,
Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[1]},
{Arable_Land_Dynamics1.Urban_Ind_Land.Integrator1.y,
Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[2]},
{Arable_Land_Dynamics1.Urban_Ind_Land.Integrator1.y,
Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[3]},
{Arable_Land_Dynamics1.Urban_Ind_Land.Integrator1.y,
Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[4]},
{Arable_Land_Dynamics1.Urban_Ind_Land.Integrator1.y,
Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[5]},
{Arable_Land_Dynamics1.Urban_Ind_Land.Integrator1.y,
Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[6]},
{Arable_Land_Dynamics1.Urban_Ind_Land.Integrator1.y,
Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[7]},
{Food_Production1.Agr_Inp.Integrator1.y,
Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[1]},
{Food_Production1.Agr_Inp.Integrator1.y,
Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[2]},
{Food_Production1.Agr_Inp.Integrator1.y,
Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[3]},
{Food_Production1.Agr_Inp.Integrator1.y,
Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[4]},
{Food_Production1.Agr_Inp.Integrator1.y,
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{NR_Resource_Utilization1.Res_Tech_NRTD.Integrator1.y,
Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[6]},
{NR_Resource_Utilization1.Res_Tech_NRTD.Integrator1.y,
Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[7]},
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{Pollution_Dynamics1.PPoll_Appear_Rate.Smooth1.Integrator1.y,
Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[2]},
{Pollution_Dynamics1.PPoll_Appear_Rate.Smooth1.Integrator1.y,
Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[3]},
{Pollution_Dynamics1.PPoll_Appear_Rate.Smooth1.Integrator1.y,
Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[4]},
{Pollution_Dynamics1.PPoll_Appear_Rate.Smooth1.Integrator1.y,
Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[5]},
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Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[6]},
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Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[7]},
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{Pollution_Dynamics1.PPoll_Appear_Rate.Smooth2.Integrator1.y,
Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[2]},
{Pollution_Dynamics1.PPoll_Appear_Rate.Smooth2.Integrator1.y,
Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[3]},
{Pollution_Dynamics1.PPoll_Appear_Rate.Smooth2.Integrator1.y,
Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[4]},
{Pollution_Dynamics1.PPoll_Appear_Rate.Smooth2.Integrator1.y,
Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[5]},
{Pollution_Dynamics1.PPoll_Appear_Rate.Smooth2.Integrator1.y,
Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[6]},
{Pollution_Dynamics1.PPoll_Appear_Rate.Smooth2.Integrator1.y,
Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[7]},
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Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[1]},
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Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[3]},
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Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[4]},
{Pollution_Dynamics1.PPoll_Appear_Rate.Smooth3.Integrator1.y,
Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[5]},
{Pollution_Dynamics1.PPoll_Appear_Rate.Smooth3.Integrator1.y,
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```

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{Pollution_Dynamics1.PPoll_Appear_Rate.Smooth3.Integrator1.y,
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 Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[2]},
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 Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[4]},
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 Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[5]},
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```

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```

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 Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[5]},
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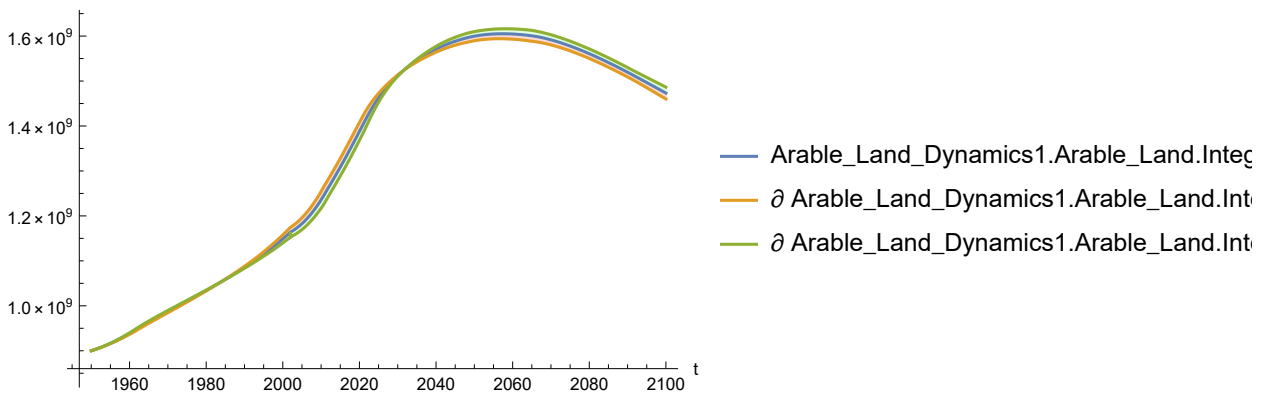
```

Programming note: in Mathematica, the following list of **SystemModelPlot** instructions could be replaced by a loop or iteration construct that cycles over **simsensdata**. The resulting source code would be elegant, but upon execution it turns out to have dynamic updating issues that the Platform described above does not handle well.

Plot the sensitivity of `Arable_Land_Dynamics1.Arable_Land.Integrator1.y` to `Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals`.

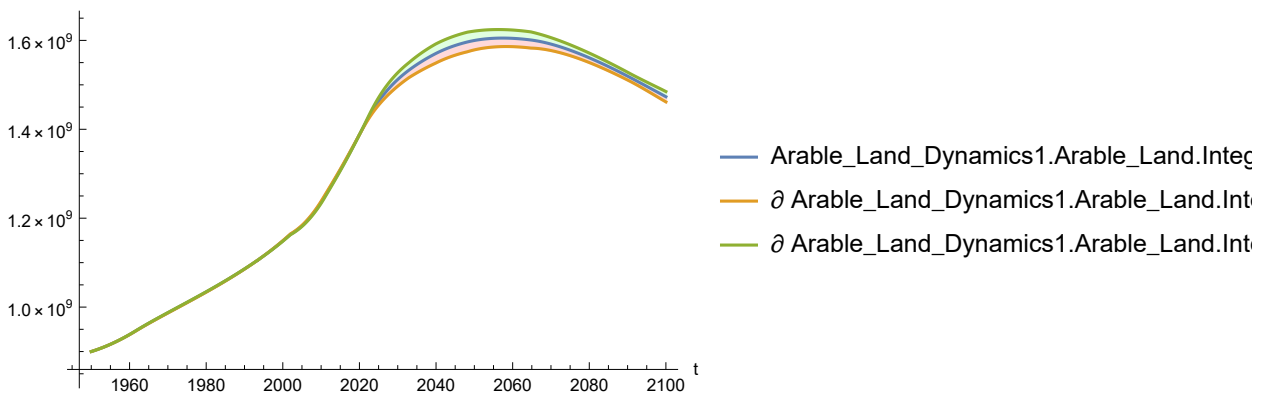
```
In[14]:= SystemModelPlot[simsensdata, {"Arable_Land_Dynamics1.Arable_Land.Integrator1.y",
  "Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[1]", percentvar}]
```

Out[14]=



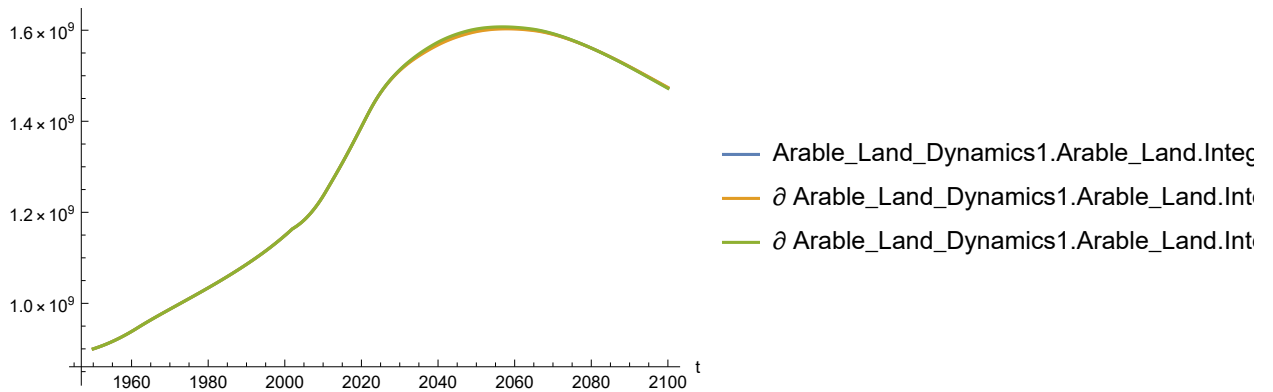
```
In[15]:= SystemModelPlot[simsensdata, {"Arable_Land_Dynamics1.Arable_Land.Integrator1.y",
  "Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[2]", percentvar}]
```

Out[15]=



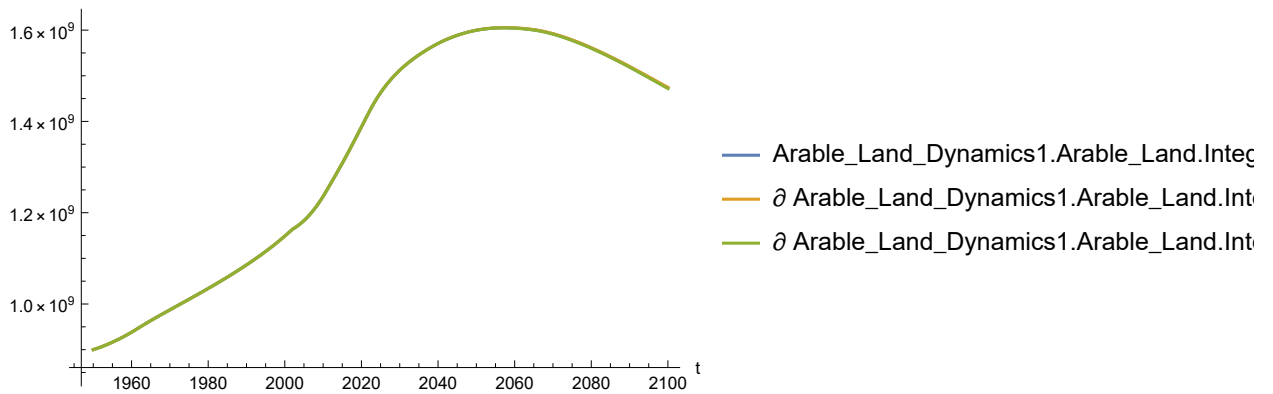
```
In[16]:= SystemModelPlot[simsensdata, {"Arable_Land_Dynamics1.Arable_Land.Integrator1.y",
"Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[3]", percentvar}]
```

Out[16]=



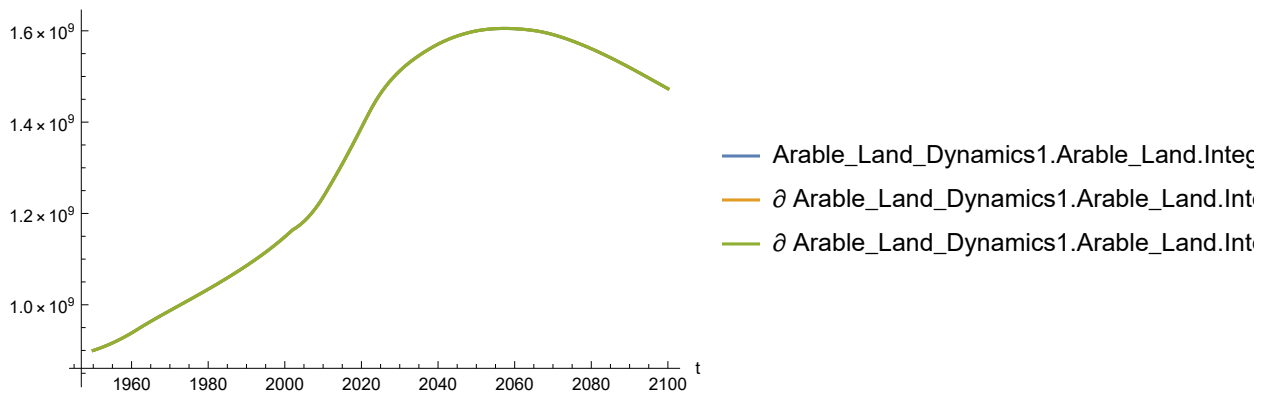
```
In[17]:= SystemModelPlot[simsensdata, {"Arable_Land_Dynamics1.Arable_Land.Integrator1.y",
"Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[4]", percentvar}]
```

Out[17]=



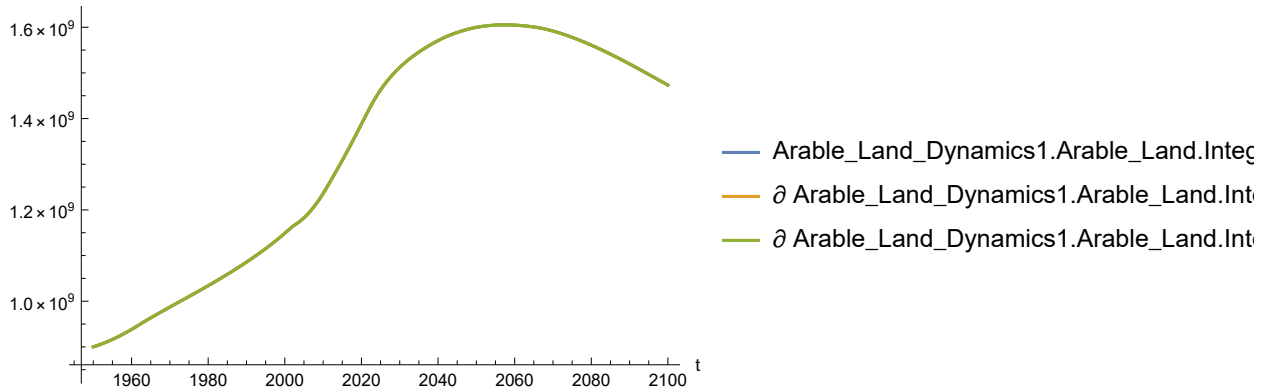
```
In[18]:= SystemModelPlot[simsensdata, {"Arable_Land_Dynamics1.Arable_Land.Integrator1.y",
"Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[5]", percentvar}]
```

Out[18]=



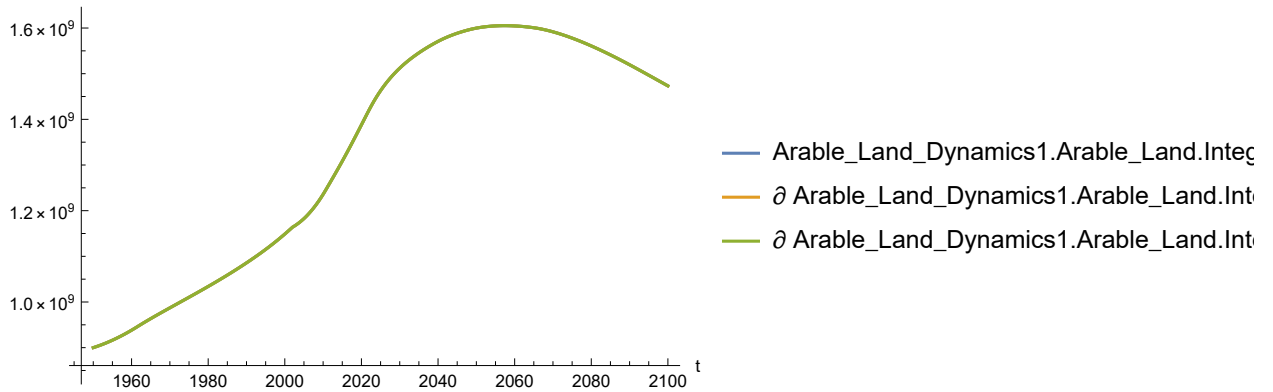

```
In[19]:= SystemModelPlot[simsensdata, {"Arable_Land_Dynamics1.Arable_Land.Integrator1.y",
"Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[6]", percentvar}]
```

Out[19]=



```
In[20]:= SystemModelPlot[simsensdata, {"Arable_Land_Dynamics1.Arable_Land.Integrator1.y",
"Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[7]", percentvar}]
```

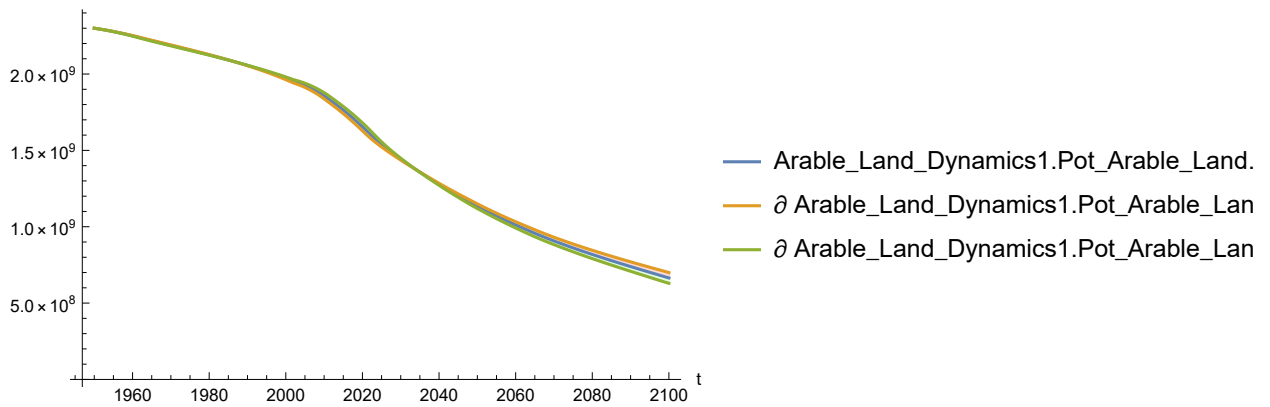
Out[20]=



Plot the sensitivity of Arable_Land_Dynamics1.Pot_Arable_Land.Integrator1.y to Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals.

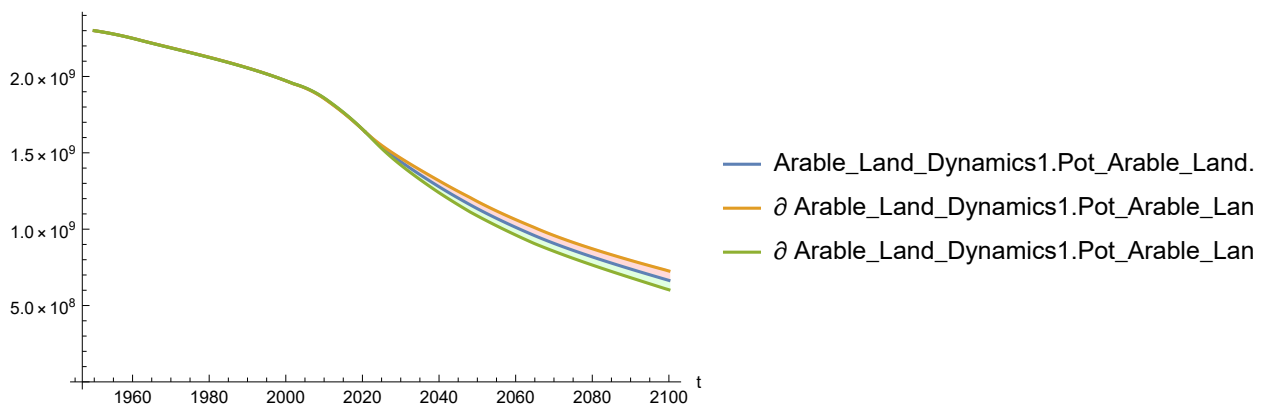
```
In[21]:= SystemModelPlot[simsensdata, {"Arable_Land_Dynamics1.Pot_Arable_Land.Integrator1.y",
"Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[1]", percentvar}]
```

Out[21]=



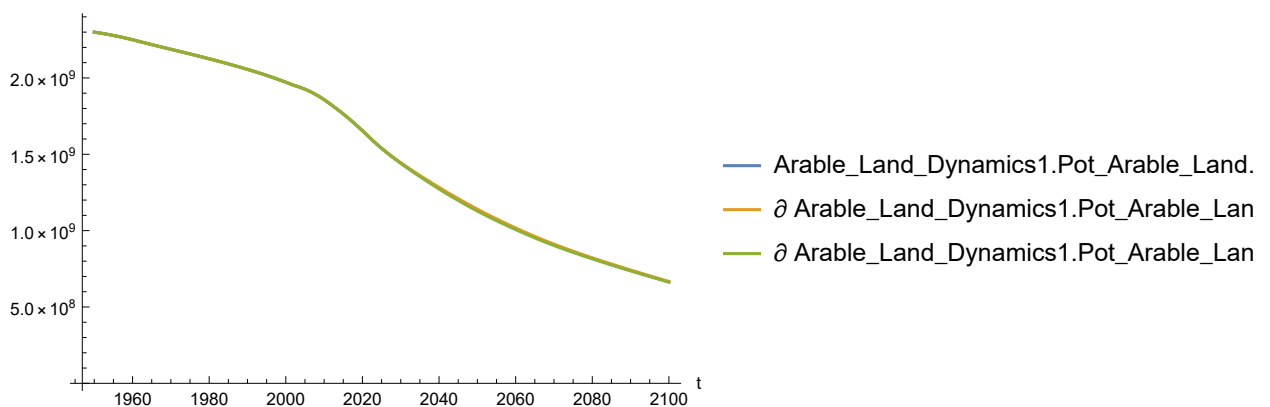
```
In[22]:= SystemModelPlot[simsensdata, {"Arable_Land_Dynamics1.Pot_Arable_Land.Integrator1.y",
"Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[2]", percentvar}]
```

Out[22]=



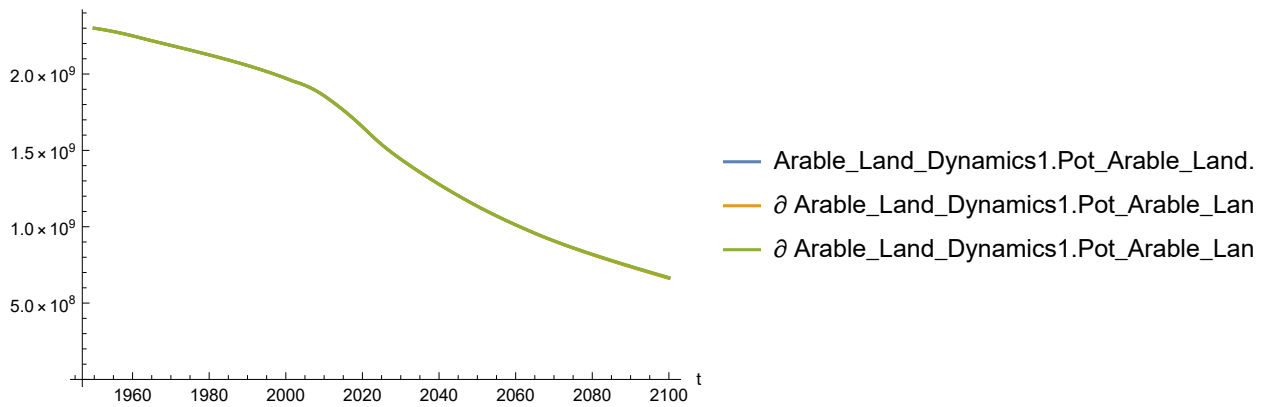
```
In[23]:= SystemModelPlot[simsensdata, {"Arable_Land_Dynamics1.Pot_Arable_Land.Integrator1.y",
"Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[3]", percentvar}]
```

Out[23]=



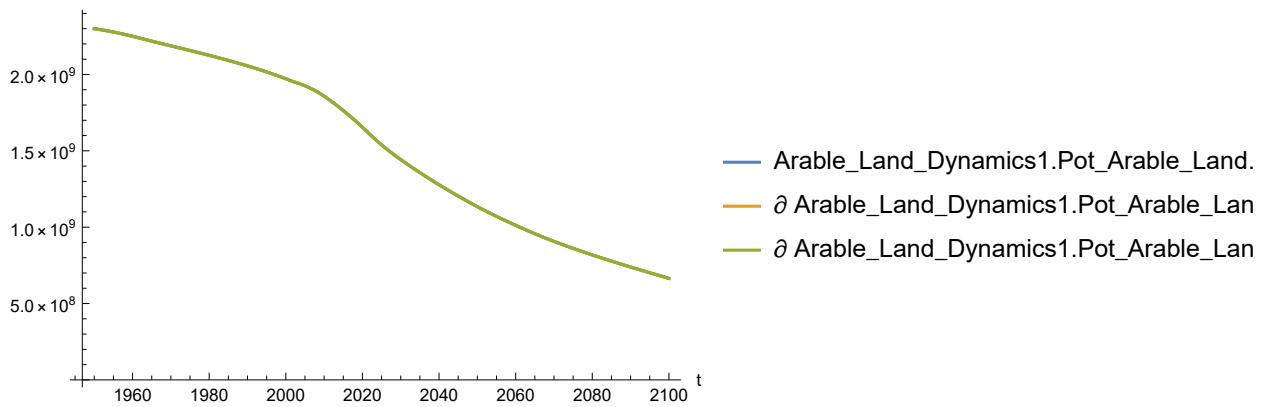
```
In[24]:= SystemModelPlot[simsensdata, {"Arable_Land_Dynamics1.Pot_Arable_Land.Integrator1.y",
"Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[4]", percentvar}]
```

Out[24]=



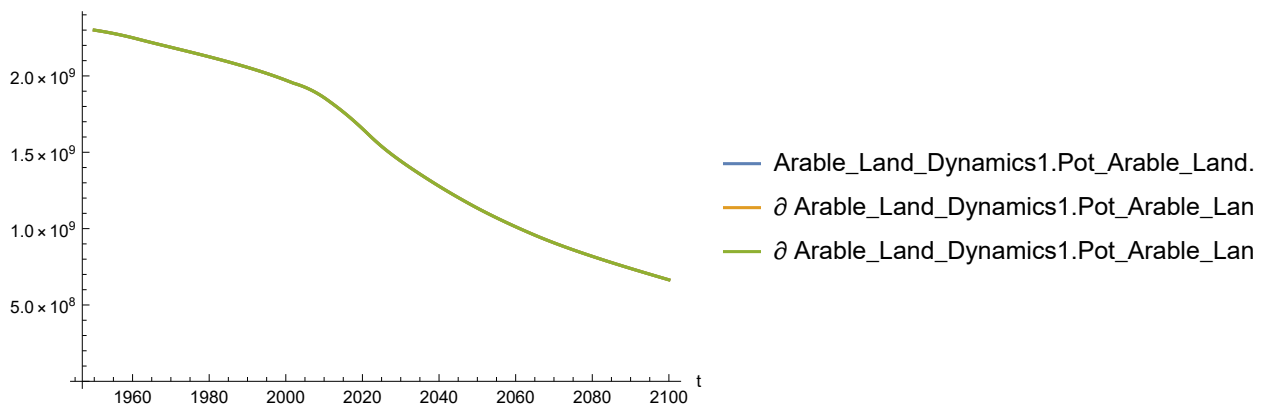
```
In[25]:= SystemModelPlot[simsensdata, {"Arable_Land_Dynamics1.Pot_Arable_Land.Integrator1.y",
"Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[5]", percentvar}]
```

Out[25]=



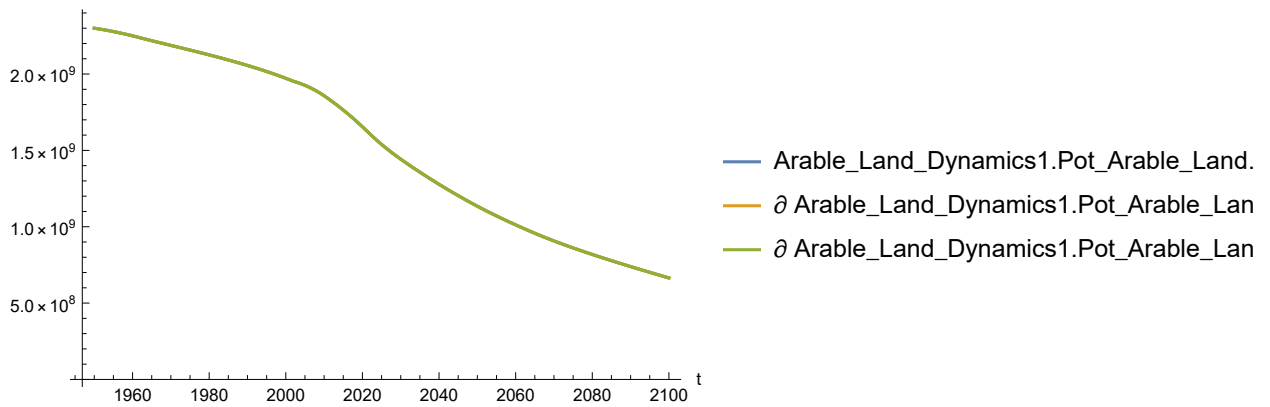
```
In[26]:= SystemModelPlot[simsensdata, {"Arable_Land_Dynamics1.Pot_Arable_Land.Integrator1.y",
"Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[6]", percentvar}]
```

Out[26]=



```
In[27]:= SystemModelPlot[simsensdata, {"Arable_Land_Dynamics1.Pot_Arable_Land.Integrator1.y",
"Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[7]", percentvar}]
```

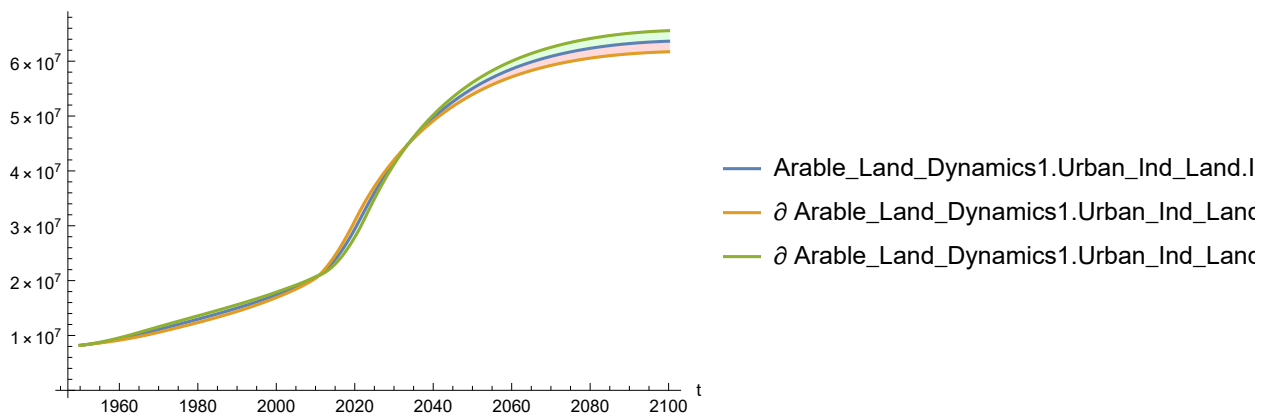
Out[27]=



Plot the sensitivity of Arable_Land_Dynamics1.Urban_Ind_Land.Integrator1.y to Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals.

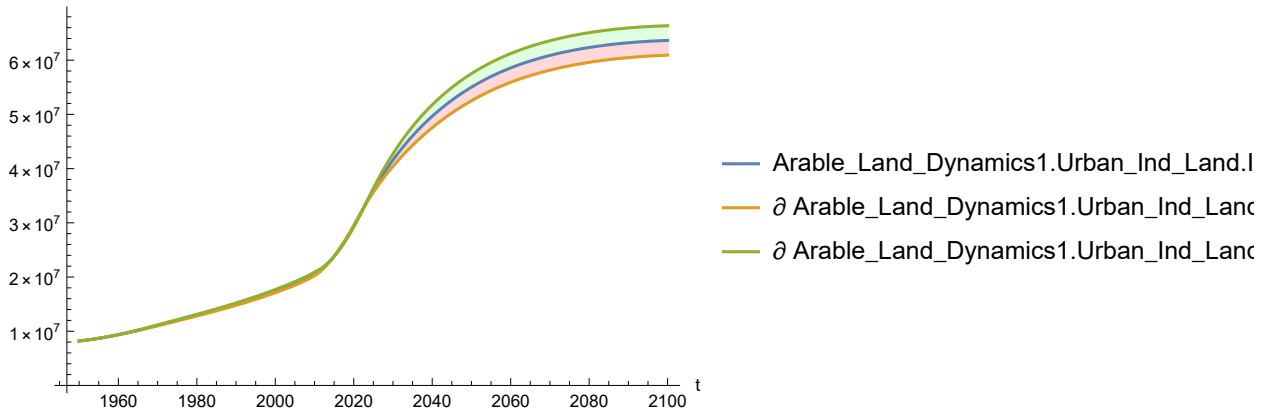
```
In[28]:= SystemModelPlot[simsensdata, {"Arable_Land_Dynamics1.Urban_Ind_Land.Integrator1.y",
"Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[1]", percentvar}]
```

Out[28]=



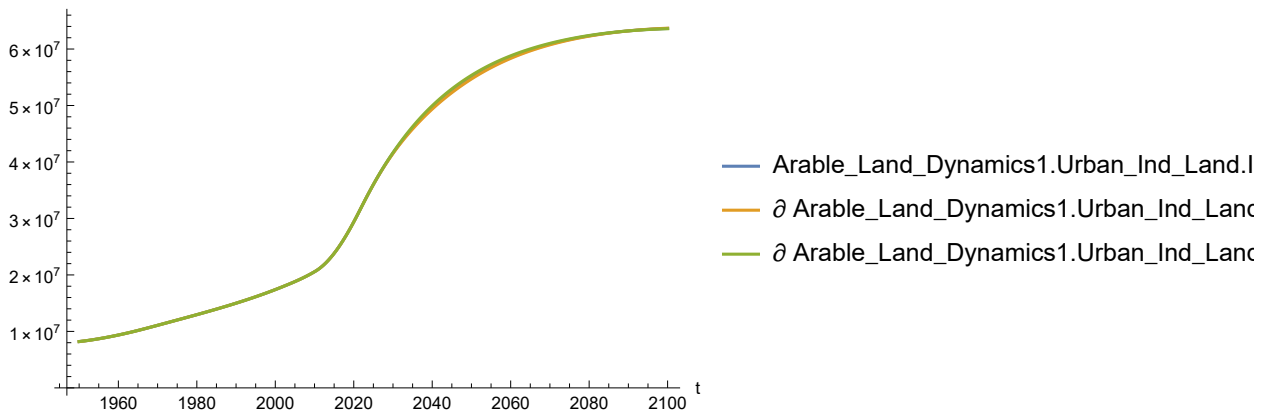
```
In[29]:= SystemModelPlot[simsensdata, {"Arable_Land_Dynamics1.Urban_Ind_Land.Integrator1.y",
"Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[2]", percentvar}]
```

Out[29]=



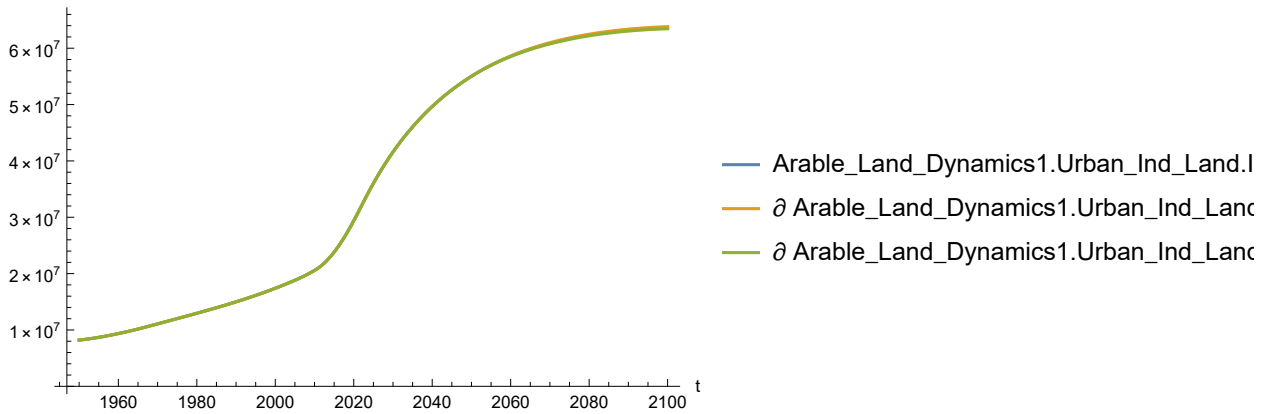
```
In[30]:= SystemModelPlot[simsensdata, {"Arable_Land_Dynamics1.Urban_Ind_Land.Integrator1.y",
"Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[3]", percentvar}]
```

Out[30]=



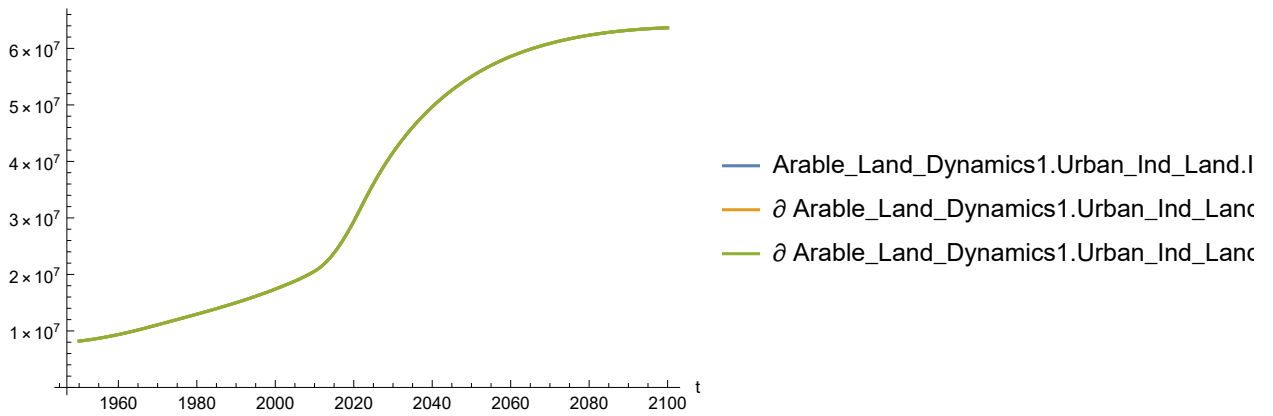
```
In[31]:= SystemModelPlot[simsensdata, {"Arable_Land_Dynamics1.Urban_Ind_Land.Integrator1.y",
"Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[4]", percentvar}]
```

Out[31]=



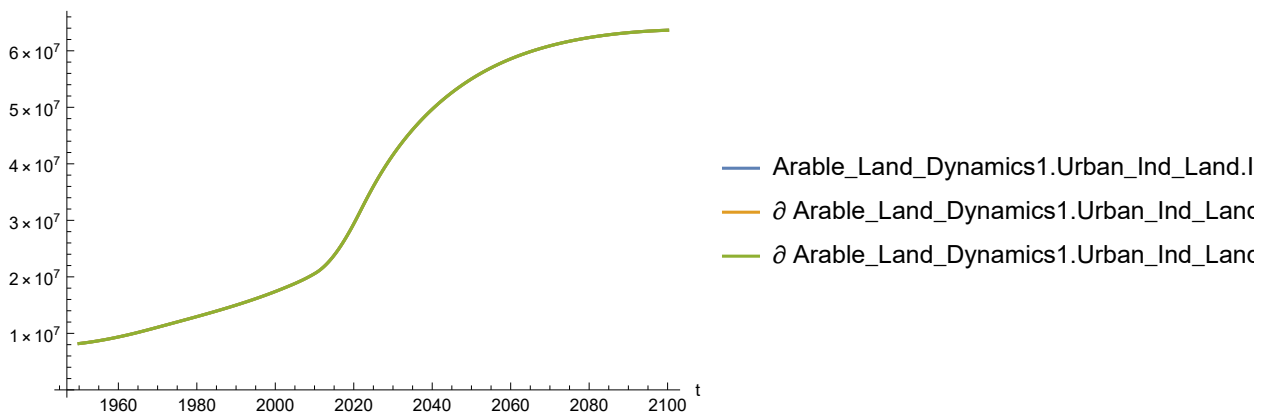
```
In[32]:= SystemModelPlot[simsensdata, {"Arable_Land_Dynamics1.Urban_Ind_Land.Integrator1.y",
"Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[5]", percentvar}]
```

Out[32]=



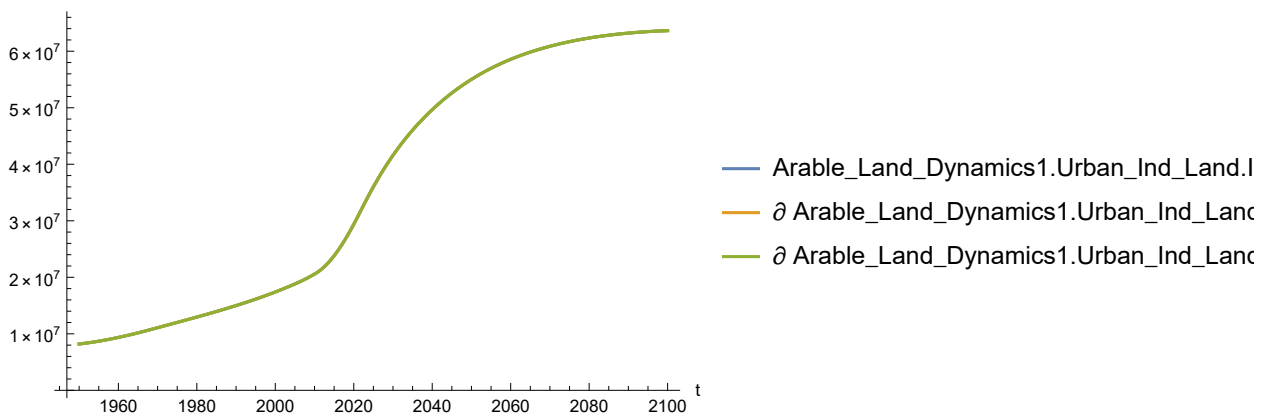
```
In[33]:= SystemModelPlot[simsensdata, {"Arable_Land_Dynamics1.Urban_Ind_Land.Integrator1.y",
"Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[6]", percentvar}]
```

Out[33]=



```
In[34]:= SystemModelPlot[simsensdata, {"Arable_Land_Dynamics1.Urban_Ind_Land.Integrator1.y",
"Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[7]", percentvar}]
```

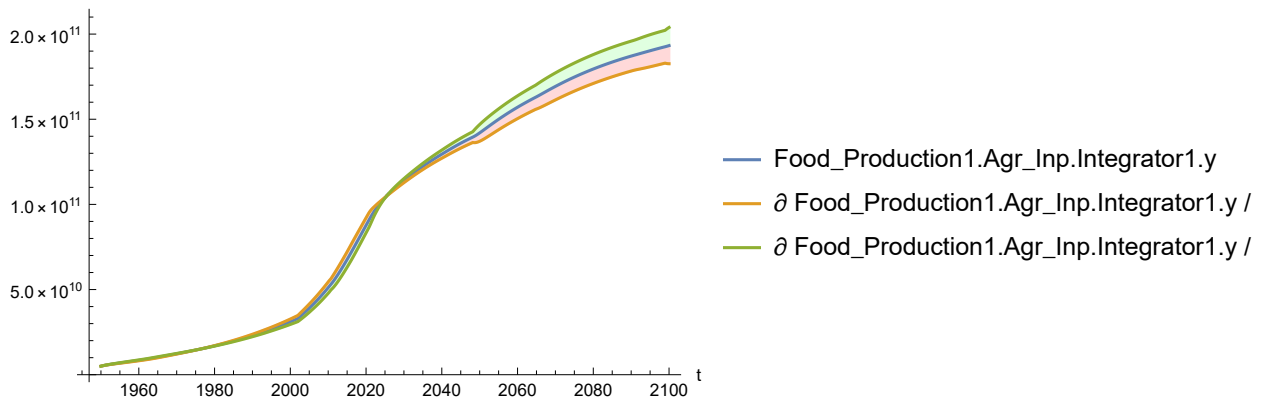
Out[34]=



Plot sensitivity of Food_Production.Agr_Inp.Integrator1.y to **Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals**.

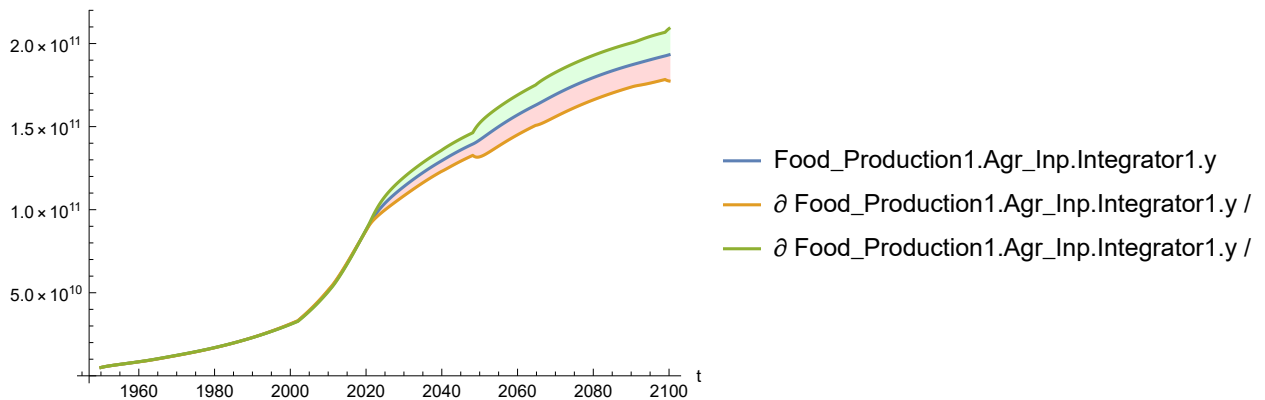
```
In[35]:= SystemModelPlot[simsensdata, {"Food_Production1.Agr_Inp.Integrator1.y",
  "Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[1]", percentvar}]
```

Out[35]=



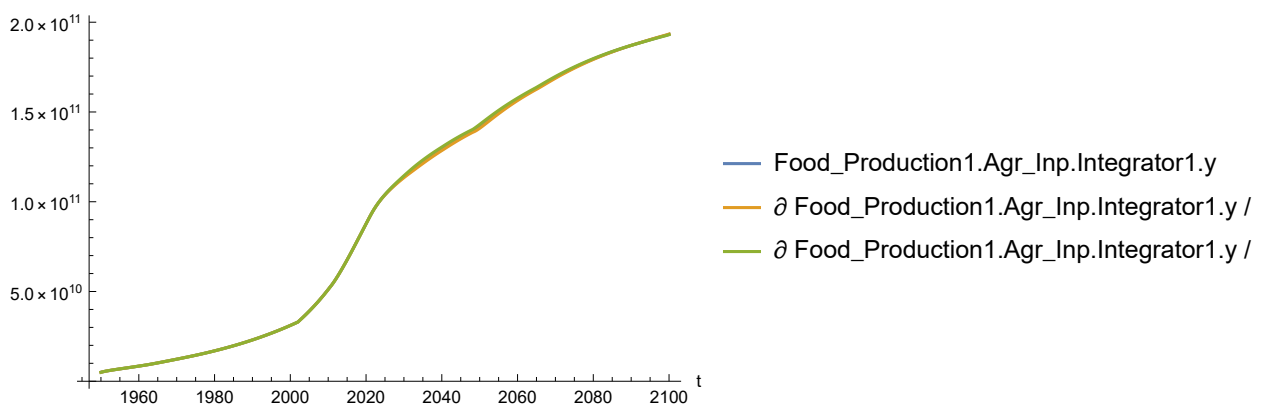
```
In[36]:= SystemModelPlot[simsensdata, {"Food_Production1.Agr_Inp.Integrator1.y",
  "Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[2]", percentvar}]
```

Out[36]=



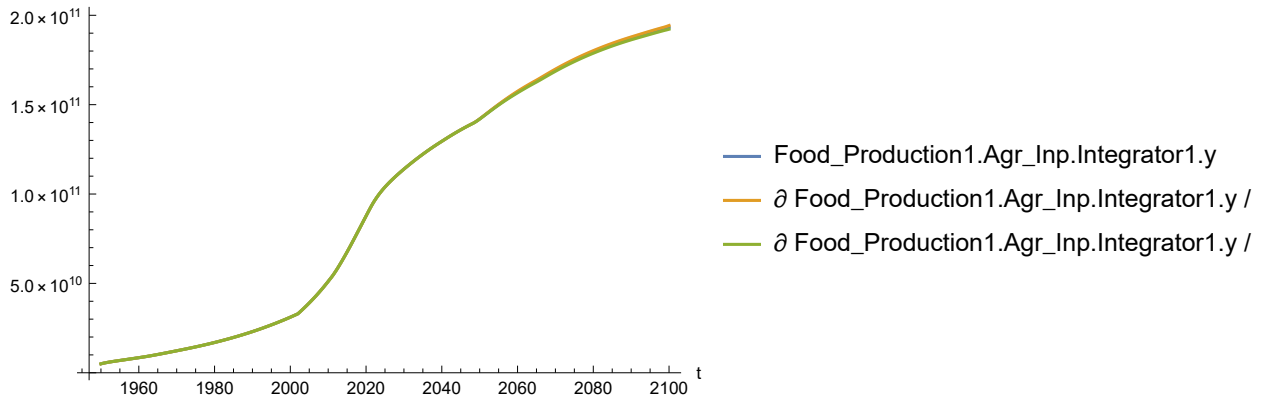
```
In[37]:= SystemModelPlot[simsensdata, {"Food_Production1.Agr_Inp.Integrator1.y",
  "Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[3]", percentvar}]
```

Out[37]=



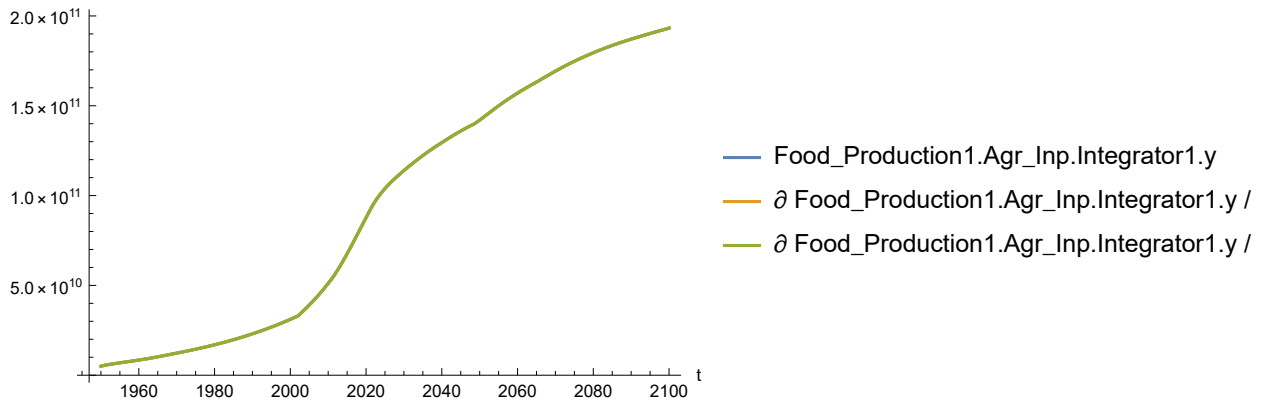
```
In[38]:= SystemModelPlot[simsensdata, {"Food_Production1.Agr_Inp.Integrator1.y",
"Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[4]", percentvar}]
```

Out[38]=



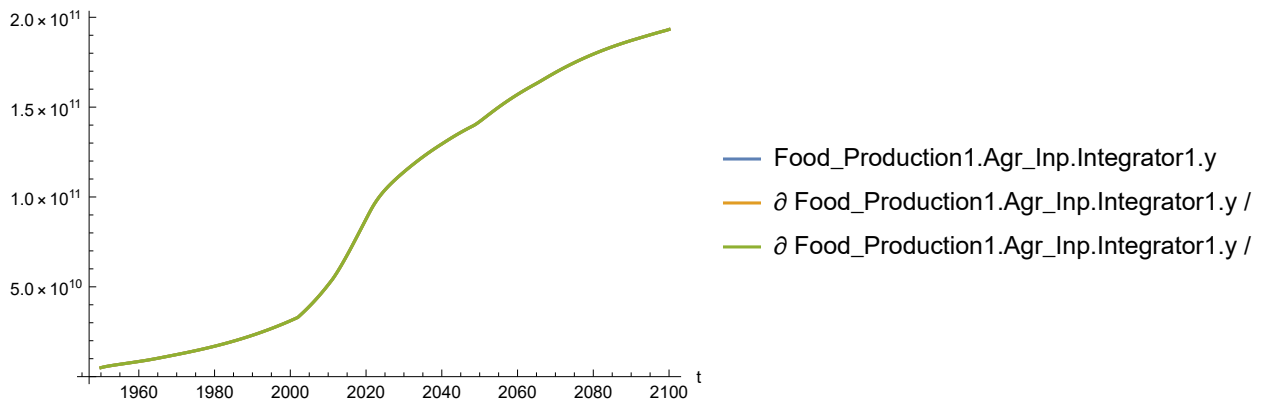
```
In[39]:= SystemModelPlot[simsensdata, {"Food_Production1.Agr_Inp.Integrator1.y",
"Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[5]", percentvar}]
```

Out[39]=



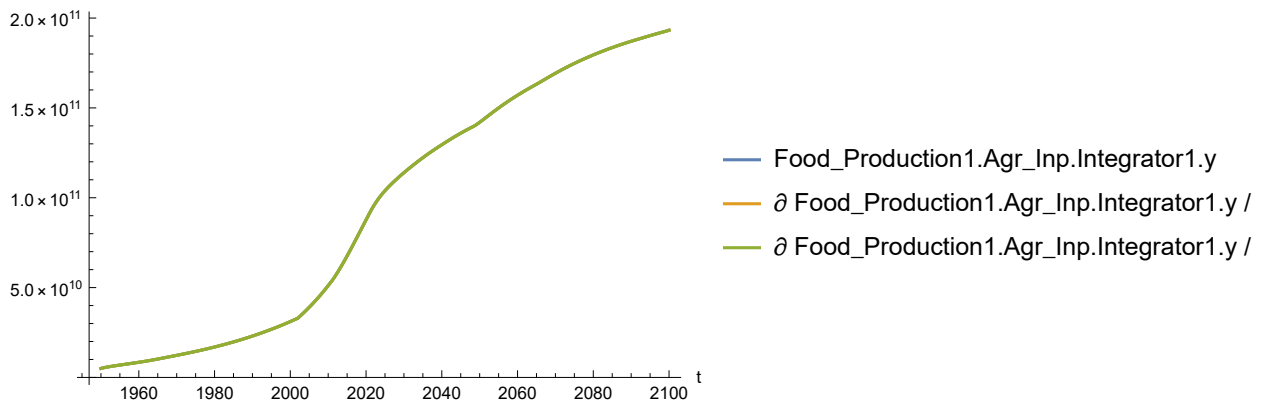
```
In[40]:= SystemModelPlot[simsensdata, {"Food_Production1.Agr_Inp.Integrator1.y",
"Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[6]", percentvar}]
```

Out[40]=




```
In[41]:= SystemModelPlot[simsensdata, {"Food_Production1.Agr_Inp.Integrator1.y",
"Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[7]", percentvar}]
```

Out[41]=

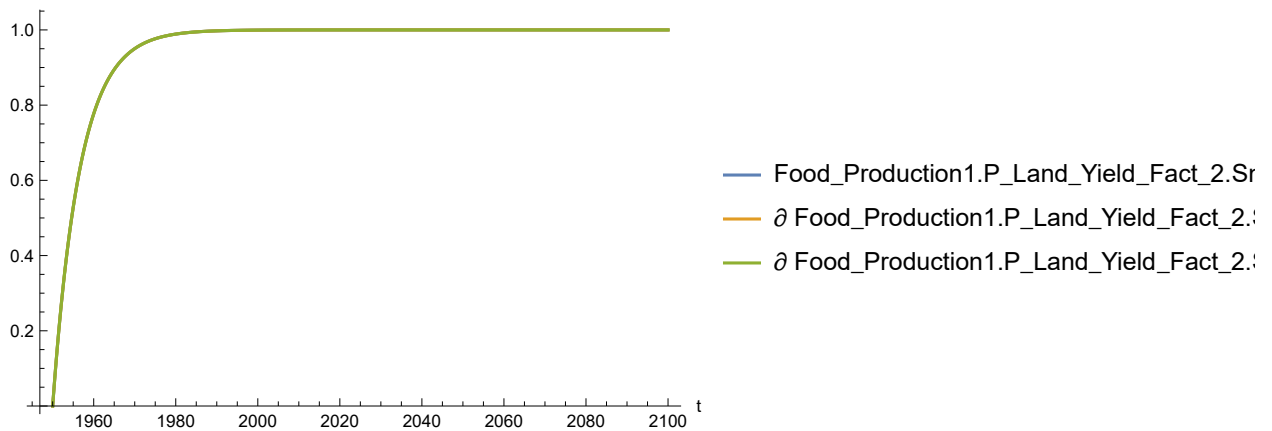


Plot sensitivity of **Food_Production1.P_Land_Yield_Fact2** to **Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals**.

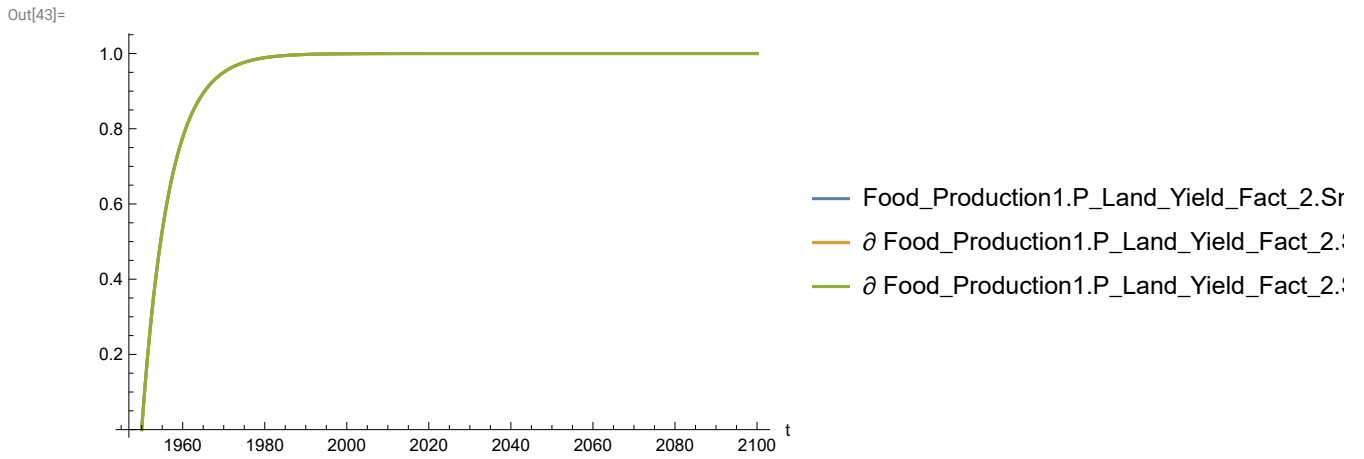
Plot the sensitivity of **Food_Production1.P_Land_Yield_Fact_2.SmoothN.Integrator1.y**, where $N = 1, 2, 3$, to variation in **Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals**.

```
In[42]:= SystemModelPlot[simsensdata, {"Food_Production1.P_Land_Yield_Fact_2.Smooth1.Integrator1.y",
"Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[1]", percentvar}]
```

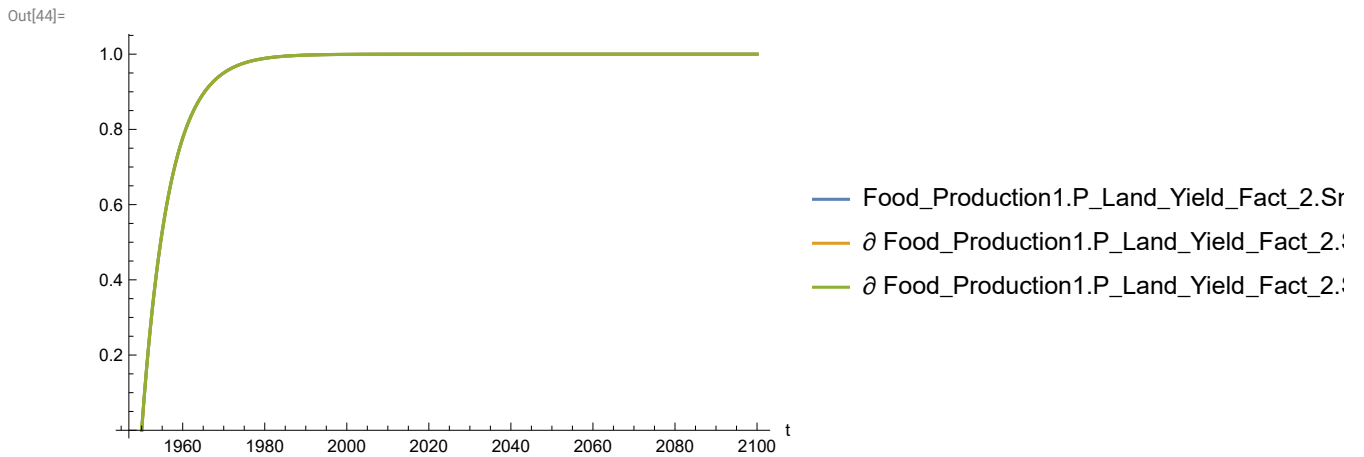
Out[42]=



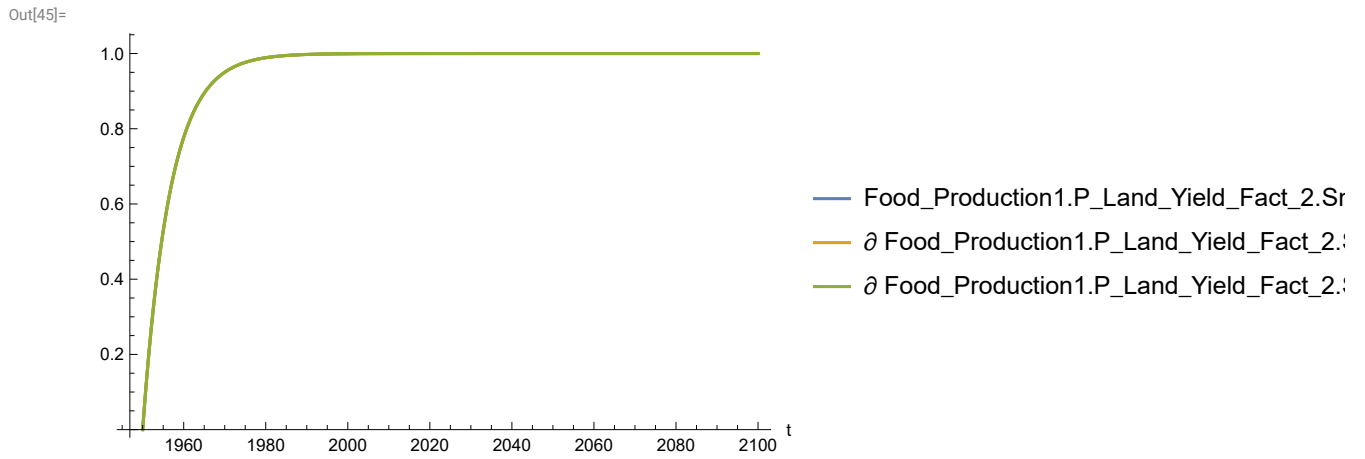
```
In[43]:= SystemModelPlot[simsensdata,
  {"Food_Production1.P_Land_Yield_Fact_2.Smooth1.Integrator1.y",
   "Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[2]", percentvar}]
```



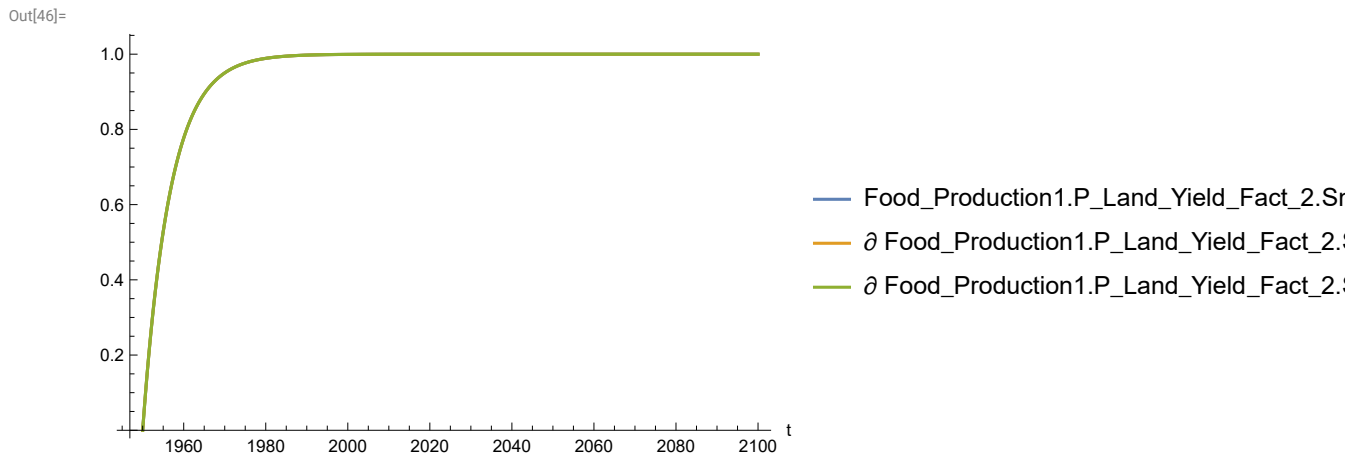
```
In[44]:= SystemModelPlot[simsensdata,
  {"Food_Production1.P_Land_Yield_Fact_2.Smooth1.Integrator1.y",
   "Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[3]", percentvar}]
```



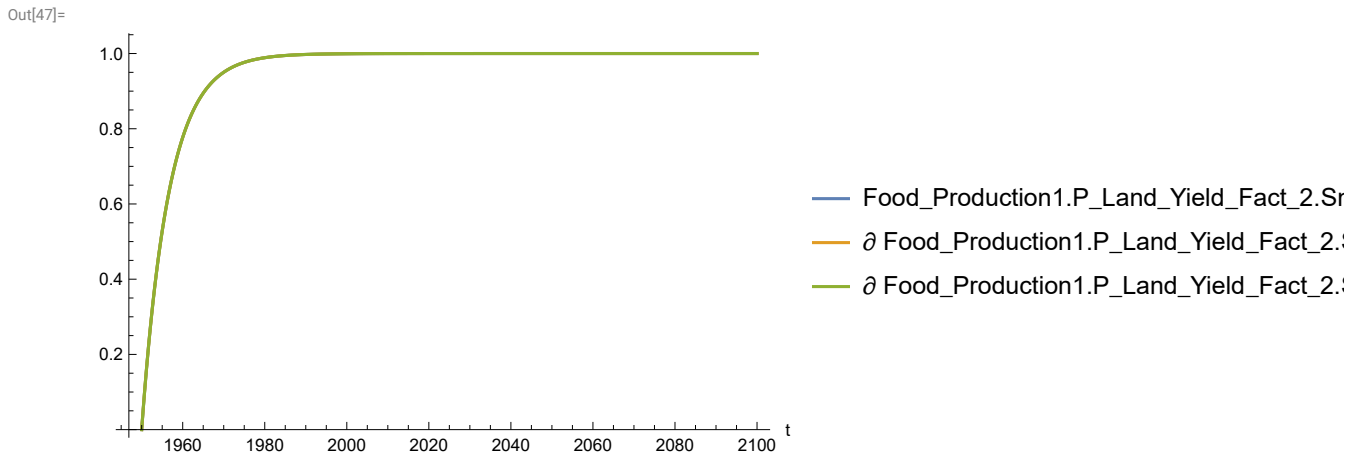
```
In[45]:= SystemModelPlot[simsensdata,
  {"Food_Production1.P_Land_Yield_Fact_2.Smooth1.Integrator1.y",
   "Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[4]", percentvar}]
```



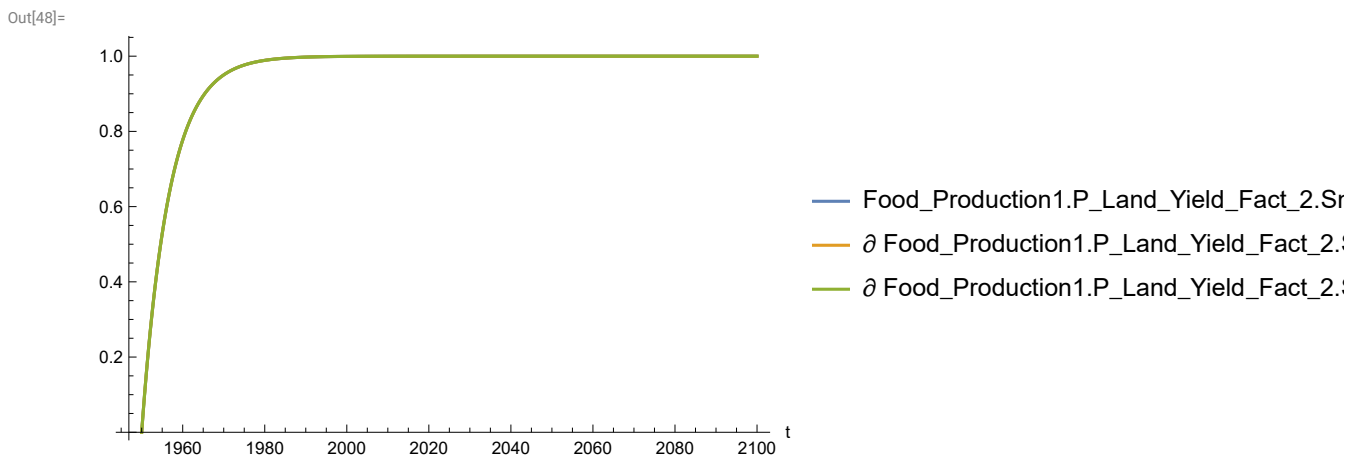
```
In[46]:= SystemModelPlot[simsensdata,
  {"Food_Production1.P_Land_Yield_Fact_2.Smooth1.Integrator1.y",
   "Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[5]", percentvar}]
```



```
In[47]:= SystemModelPlot[simsensdata,
  {"Food_Production1.P_Land_Yield_Fact_2.Smooth1.Integrator1.y",
   "Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[6]", percentvar}]
```

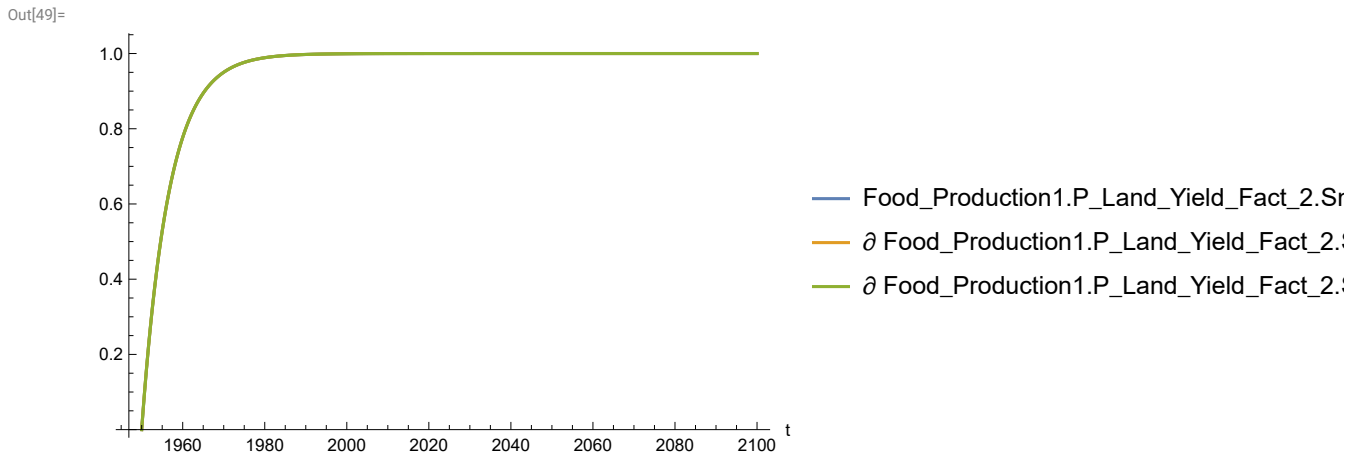


```
In[48]:= SystemModelPlot[simsensdata,
  {"Food_Production1.P_Land_Yield_Fact_2.Smooth1.Integrator1.y",
   "Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[7]", percentvar}]
```

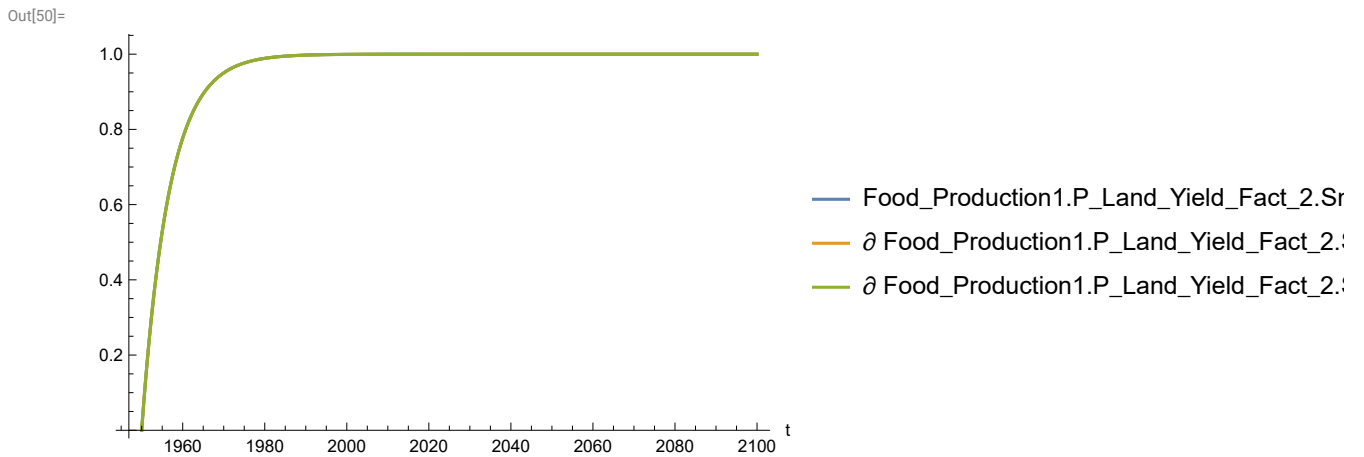


Plot the sensitivity of Food_Production1.P_Land_Yield_Fact_2.Smooth1.Integrator1.y to Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals.

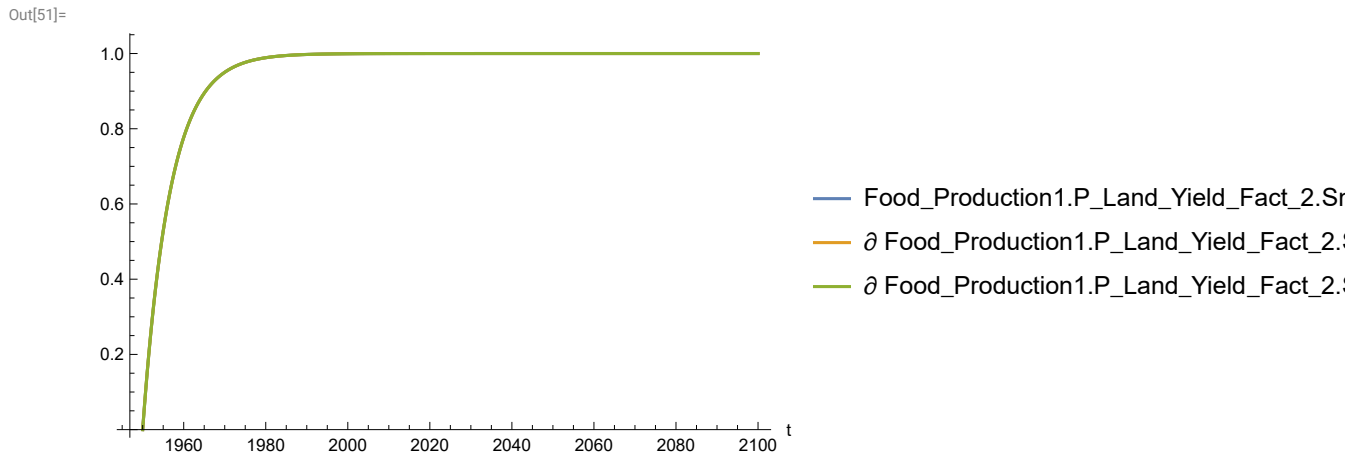
```
In[49]:= SystemModelPlot[simsensdata,
  {"Food_Production1.P_Land_Yield_Fact_2.Smooth1.Integrator1.y",
   "Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[1]", percentvar}]
```



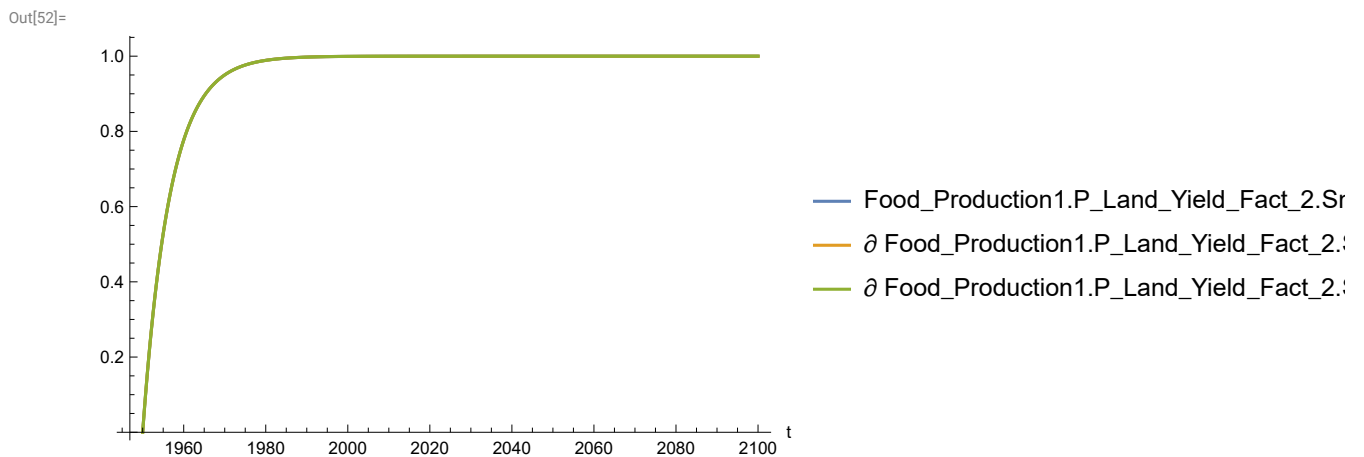
```
In[50]:= SystemModelPlot[simsensdata,
  {"Food_Production1.P_Land_Yield_Fact_2.Smooth1.Integrator1.y",
   "Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[2]", percentvar}]
```



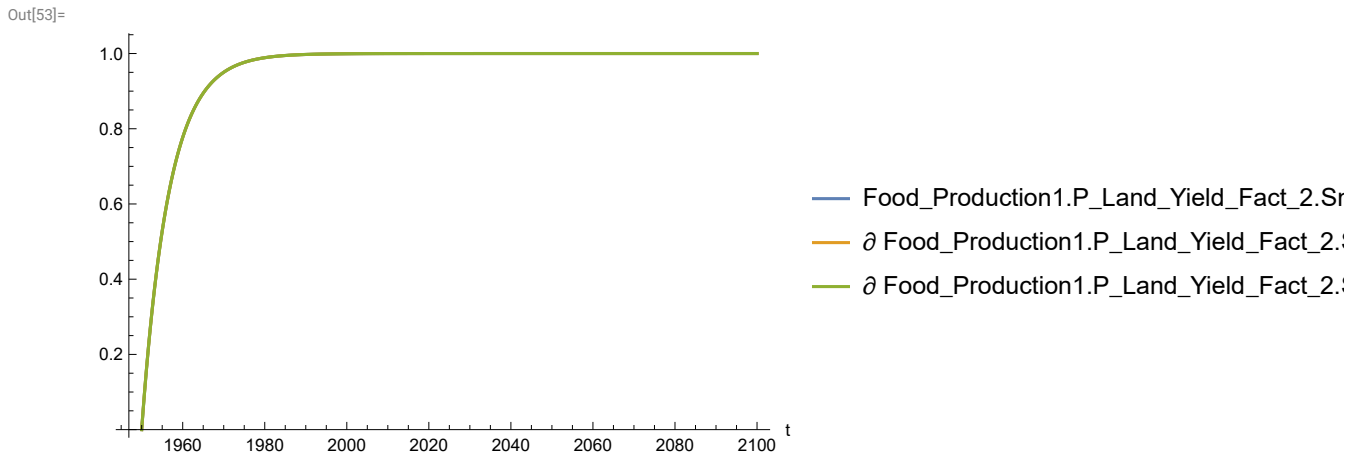
```
In[51]:= SystemModelPlot[simsensdata,
  {"Food_Production1.P_Land_Yield_Fact_2.Smooth1.Integrator1.y",
   "Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[3]", percentvar}]
```



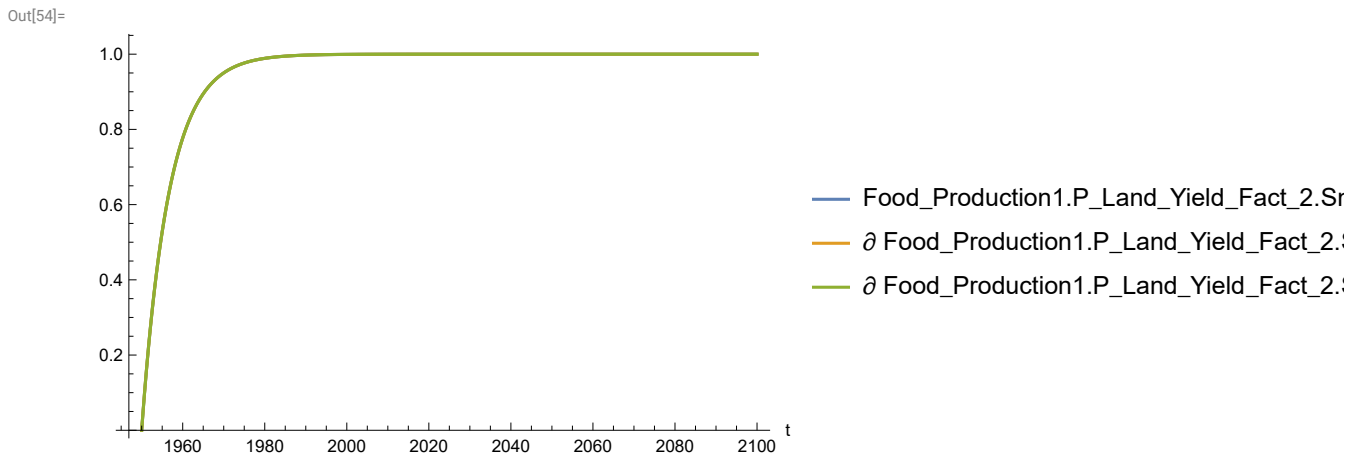
```
In[52]:= SystemModelPlot[simsensdata,
  {"Food_Production1.P_Land_Yield_Fact_2.Smooth1.Integrator1.y",
   "Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[4]", percentvar}]
```



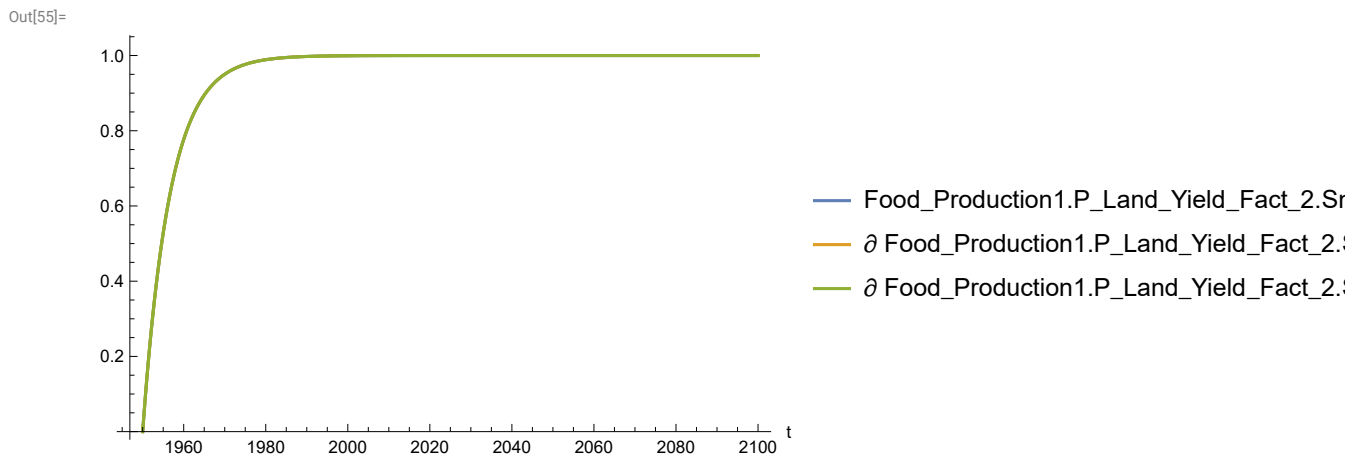
```
In[53]:= SystemModelPlot[simsensdata,
  {"Food_Production1.P_Land_Yield_Fact_2.Smooth1.Integrator1.y",
   "Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[5]", percentvar}]
```



```
In[54]:= SystemModelPlot[simsensdata,
  {"Food_Production1.P_Land_Yield_Fact_2.Smooth1.Integrator1.y",
   "Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[6]", percentvar}]
```

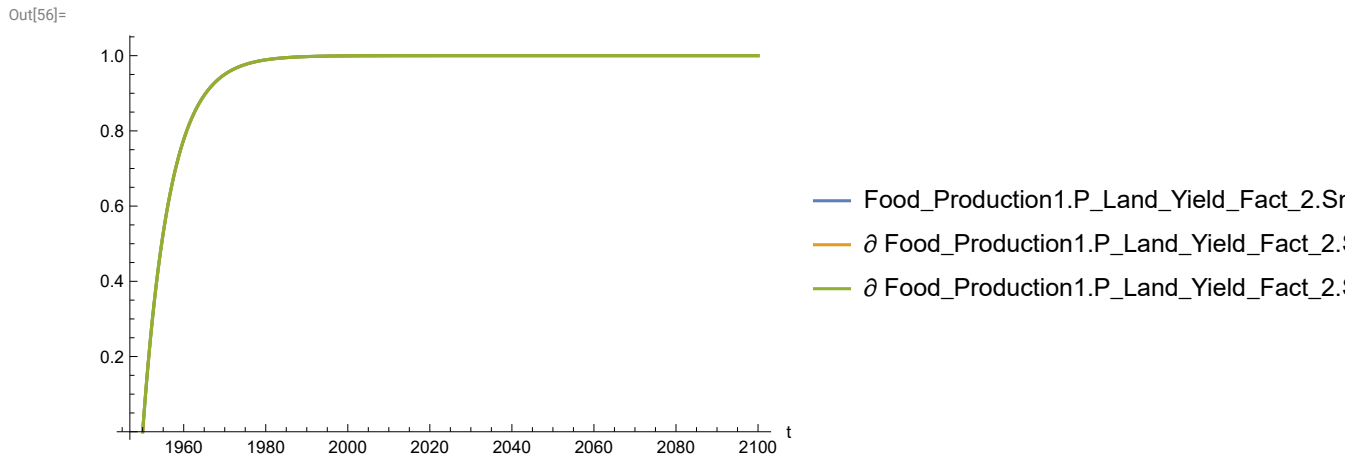


```
In[55]:= SystemModelPlot[simsensdata,
  {"Food_Production1.P_Land_Yield_Fact_2.Smooth1.Integrator1.y",
   "Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[7]", percentvar}]
```

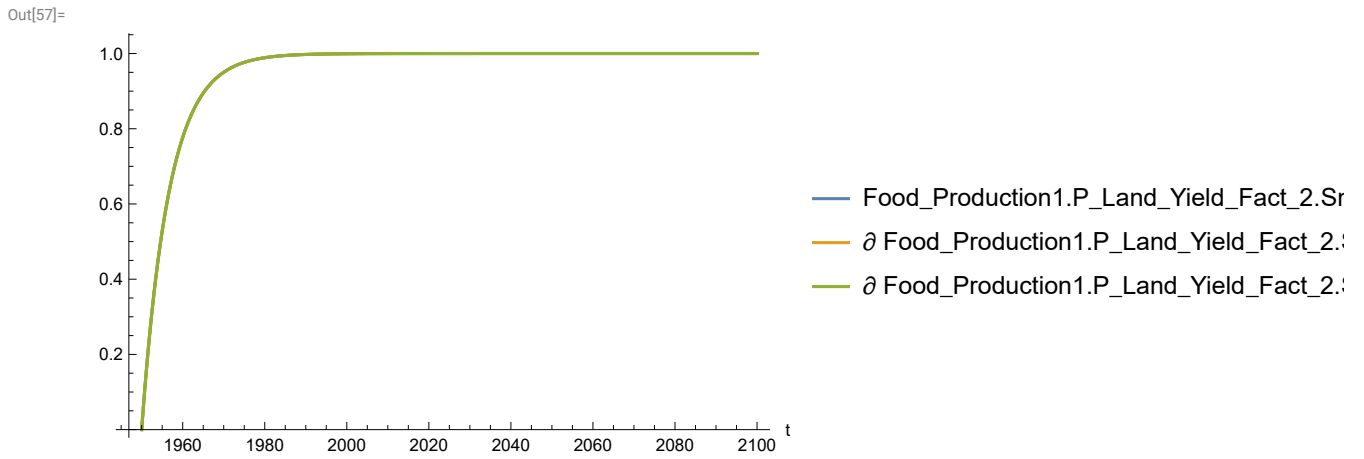


Plot the sensitivity of Food_Production1.P_Land_Yield_Fact_2.Smooth1.Integrator1.y to Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals.

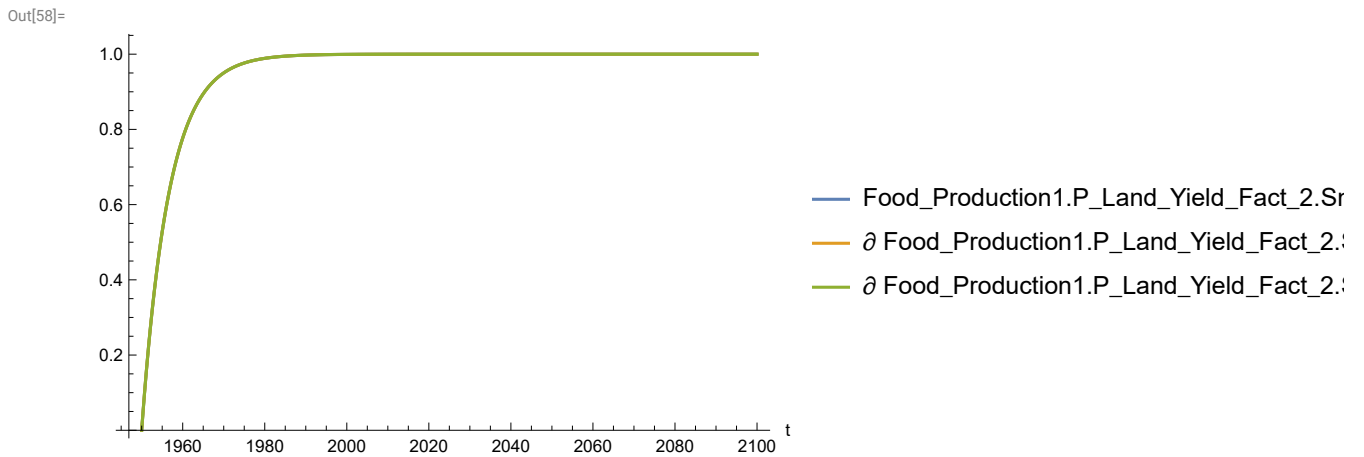
```
In[56]:= SystemModelPlot[simsensdata,
  {"Food_Production1.P_Land_Yield_Fact_2.Smooth1.Integrator1.y",
   "Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[1]", percentvar}]
```



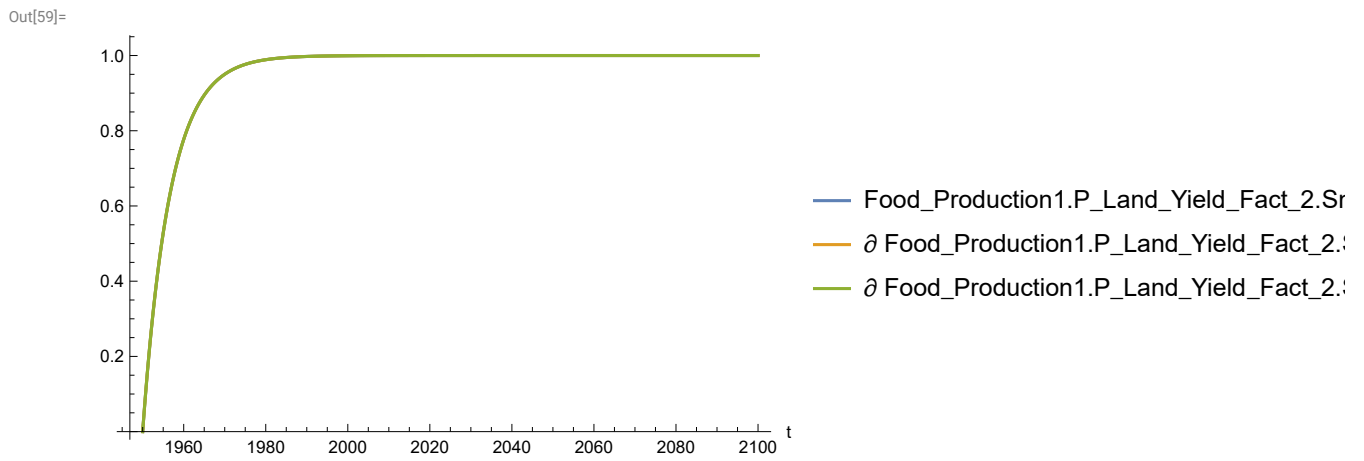

```
In[57]:= SystemModelPlot[simsensdata,
  {"Food_Production1.P_Land_Yield_Fact_2.Smooth1.Integrator1.y",
   "Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[2]", percentvar}]
```



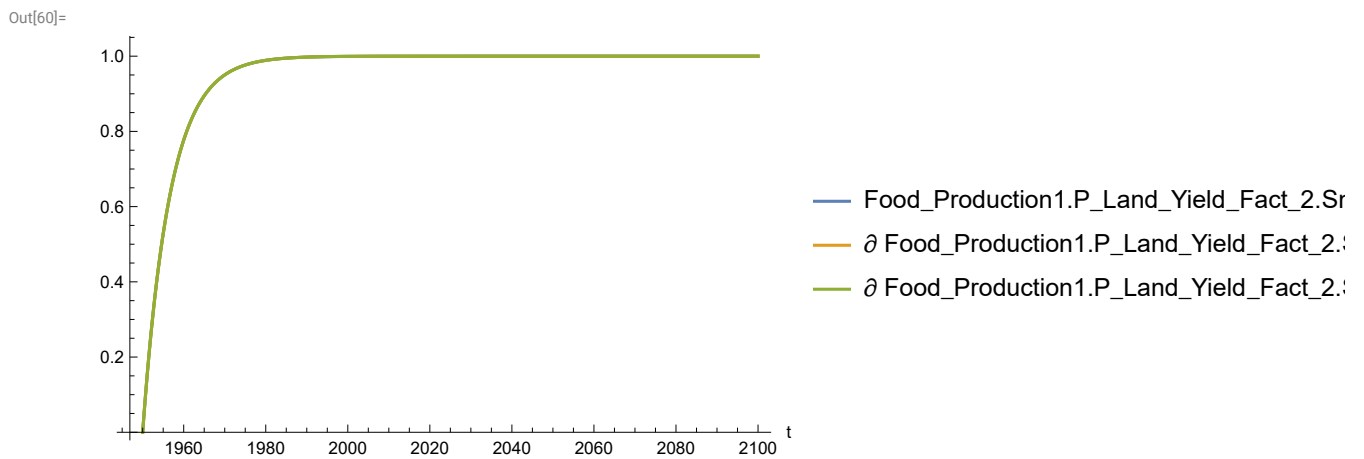
```
In[58]:= SystemModelPlot[simsensdata,
  {"Food_Production1.P_Land_Yield_Fact_2.Smooth1.Integrator1.y",
   "Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[3]", percentvar}]
```



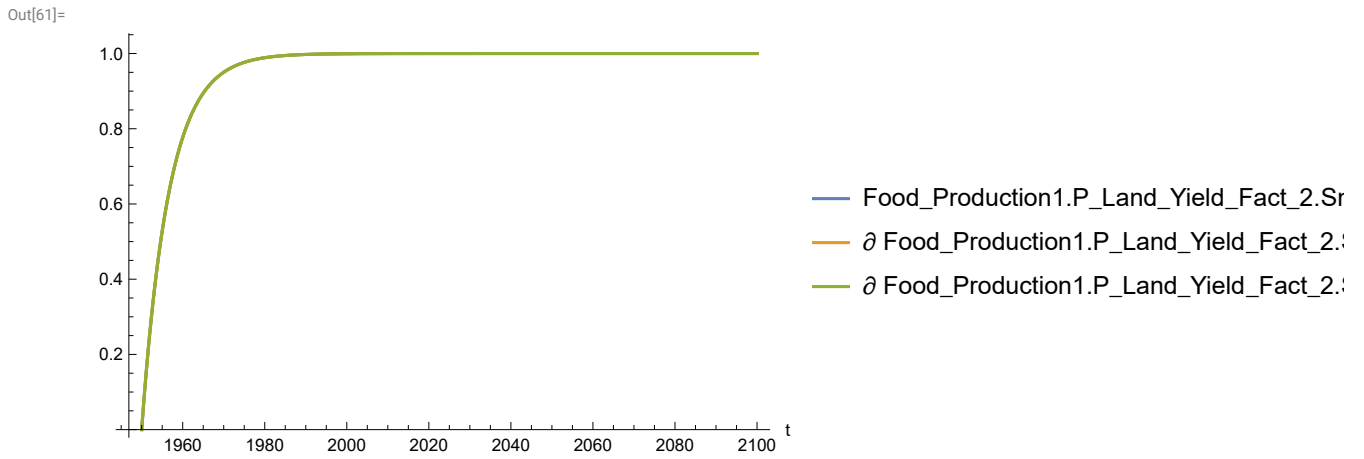
```
In[59]:= SystemModelPlot[simsensdata,
  {"Food_Production1.P_Land_Yield_Fact_2.Smooth1.Integrator1.y",
   "Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[4]", percentvar}]
```



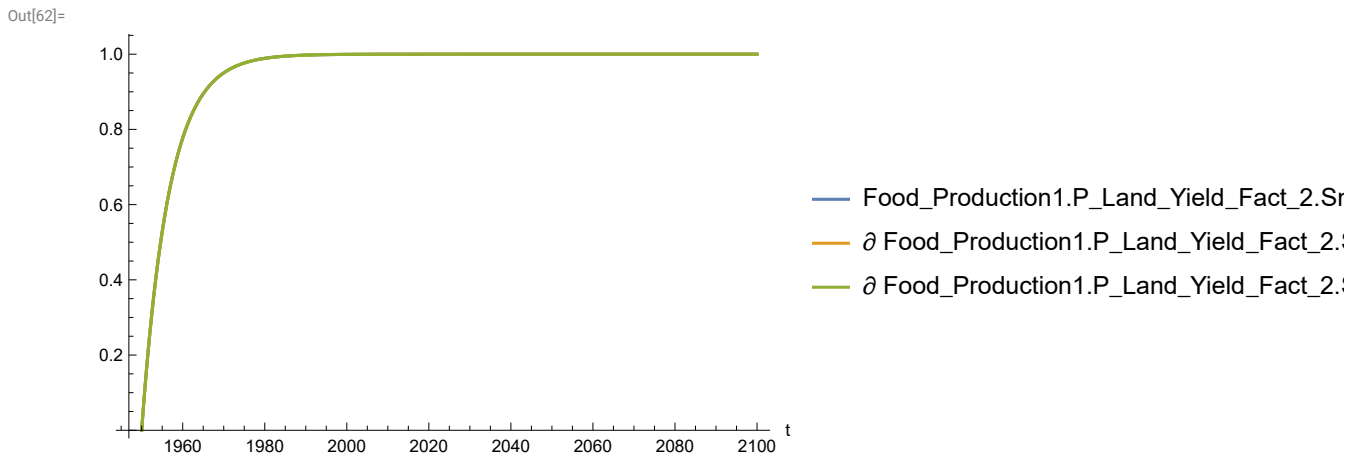
```
In[60]:= SystemModelPlot[simsensdata,
  {"Food_Production1.P_Land_Yield_Fact_2.Smooth1.Integrator1.y",
   "Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[5]", percentvar}]
```



```
In[61]:= SystemModelPlot[simsensdata,
  {"Food_Production1.P_Land_Yield_Fact_2.Smooth1.Integrator1.y",
   "Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[6]", percentvar}]
```

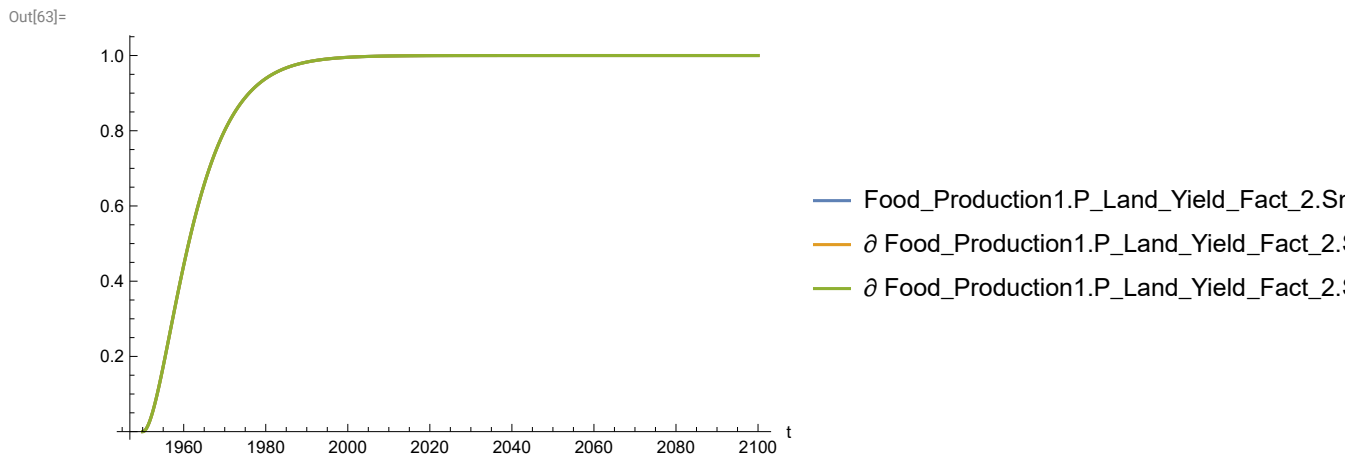


```
In[62]:= SystemModelPlot[simsensdata,
  {"Food_Production1.P_Land_Yield_Fact_2.Smooth1.Integrator1.y",
   "Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[7]", percentvar}]
```

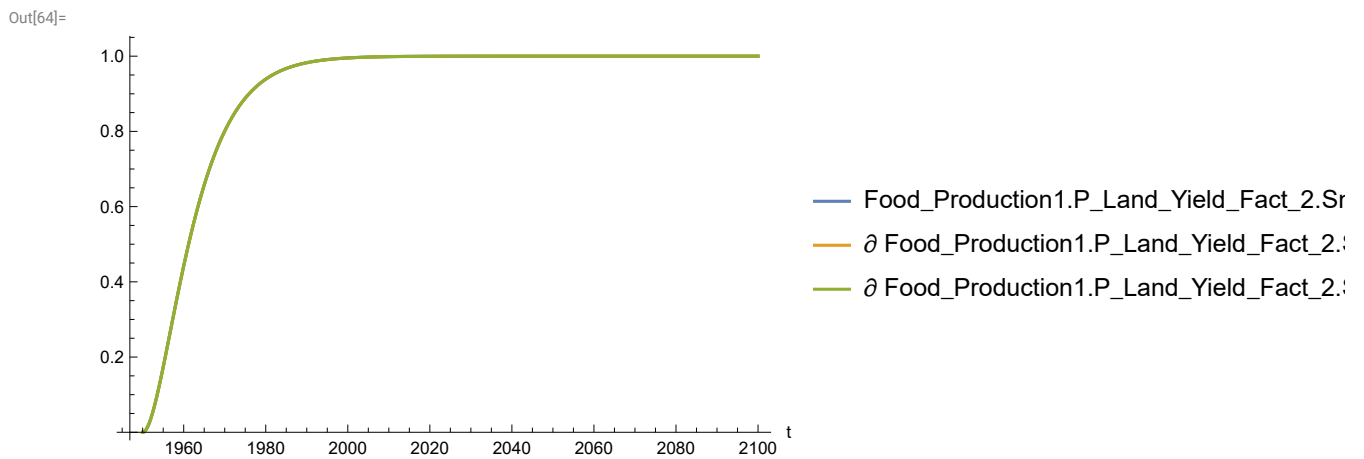


Plot the sensitivity of Food_Production1.P_Land_Yield_Fact_2.Smooth2.Integrator1.y to Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals.

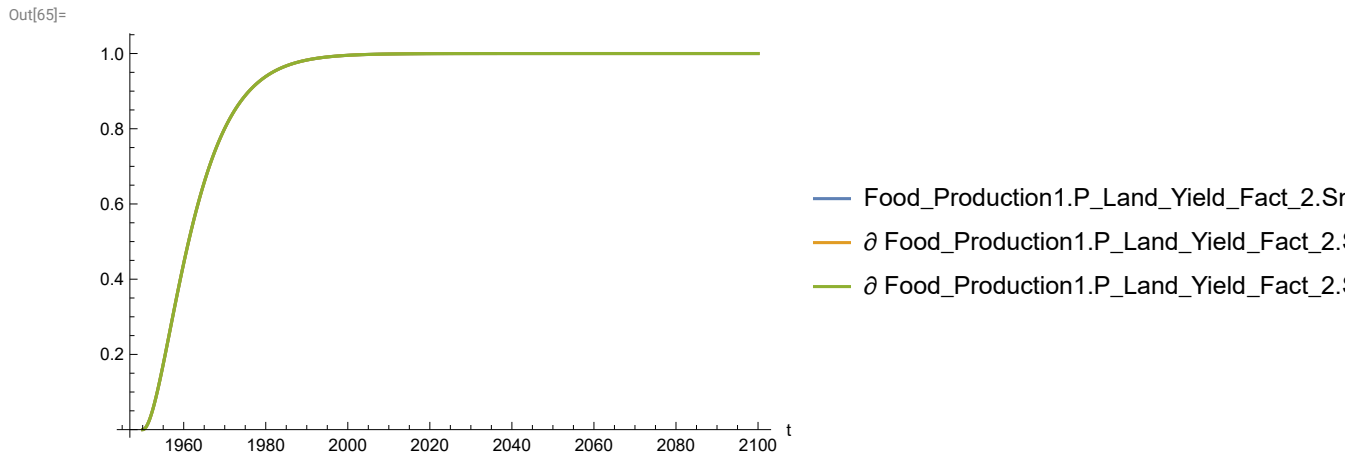
```
In[63]:= SystemModelPlot[simsensdata,
  {"Food_Production1.P_Land_Yield_Fact_2.Smooth2.Integrator1.y",
   "Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[1]", percentvar}]
```



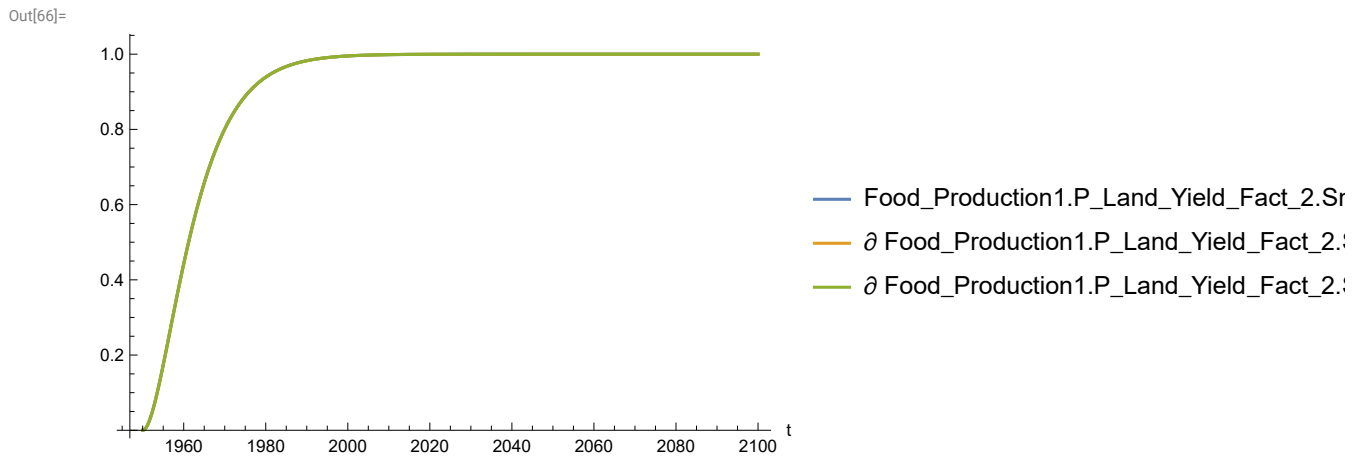
```
In[64]:= SystemModelPlot[simsensdata,
  {"Food_Production1.P_Land_Yield_Fact_2.Smooth2.Integrator1.y",
   "Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[2]", percentvar}]
```



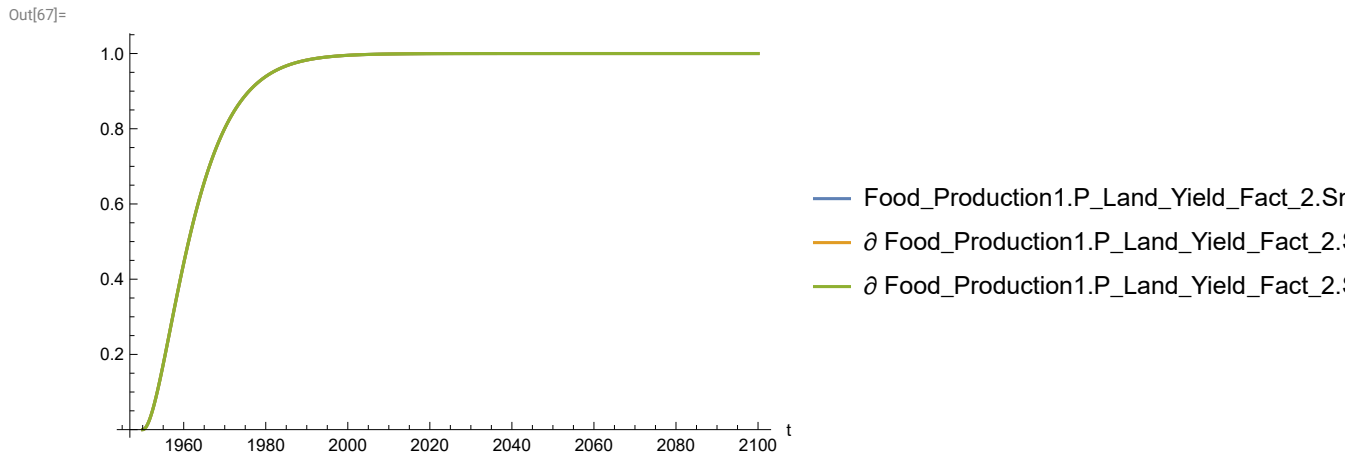
```
In[65]:= SystemModelPlot[simsensdata,
  {"Food_Production1.P_Land_Yield_Fact_2.Smooth2.Integrator1.y",
   "Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[3]", percentvar}]
```



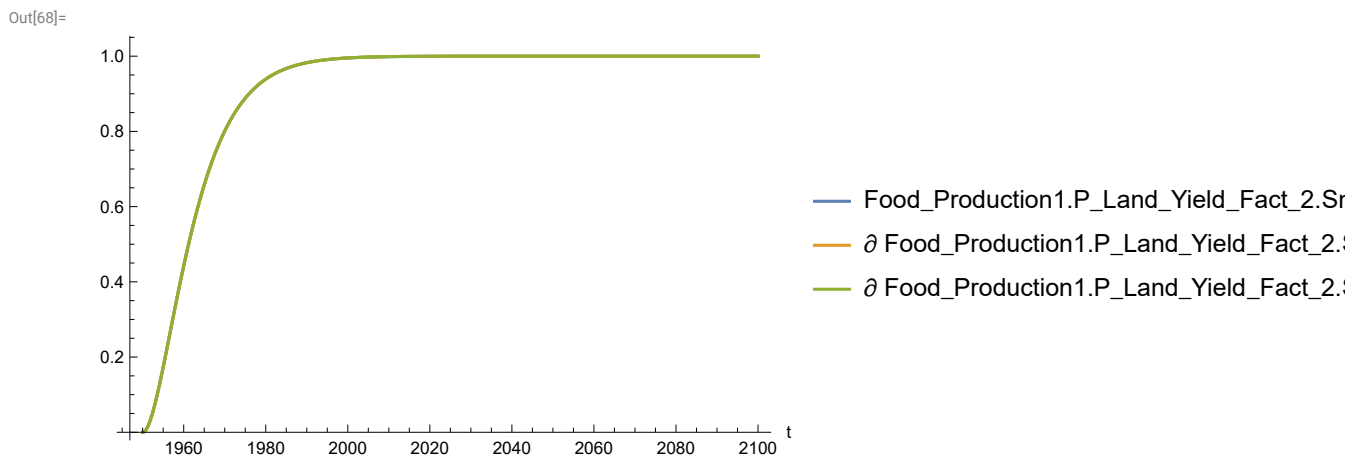
```
In[66]:= SystemModelPlot[simsensdata,
  {"Food_Production1.P_Land_Yield_Fact_2.Smooth2.Integrator1.y",
   "Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[4]", percentvar}]
```



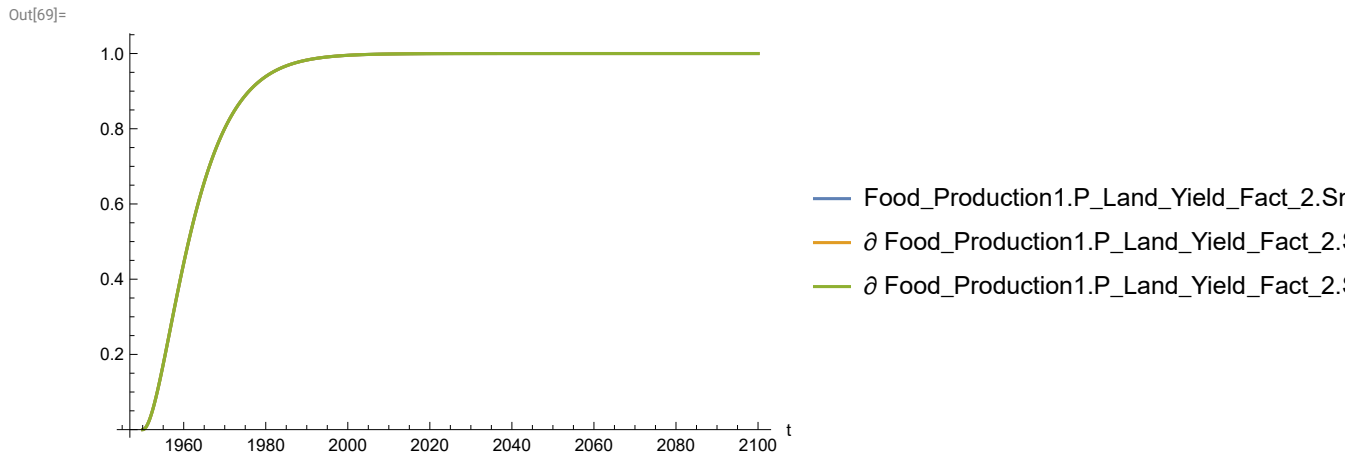
```
In[67]:= SystemModelPlot[simsensdata,
  {"Food_Production1.P_Land_Yield_Fact_2.Smooth2.Integrator1.y",
   "Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[5]", percentvar}]
```



```
In[68]:= SystemModelPlot[simsensdata,
  {"Food_Production1.P_Land_Yield_Fact_2.Smooth2.Integrator1.y",
   "Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[6]", percentvar}]
```

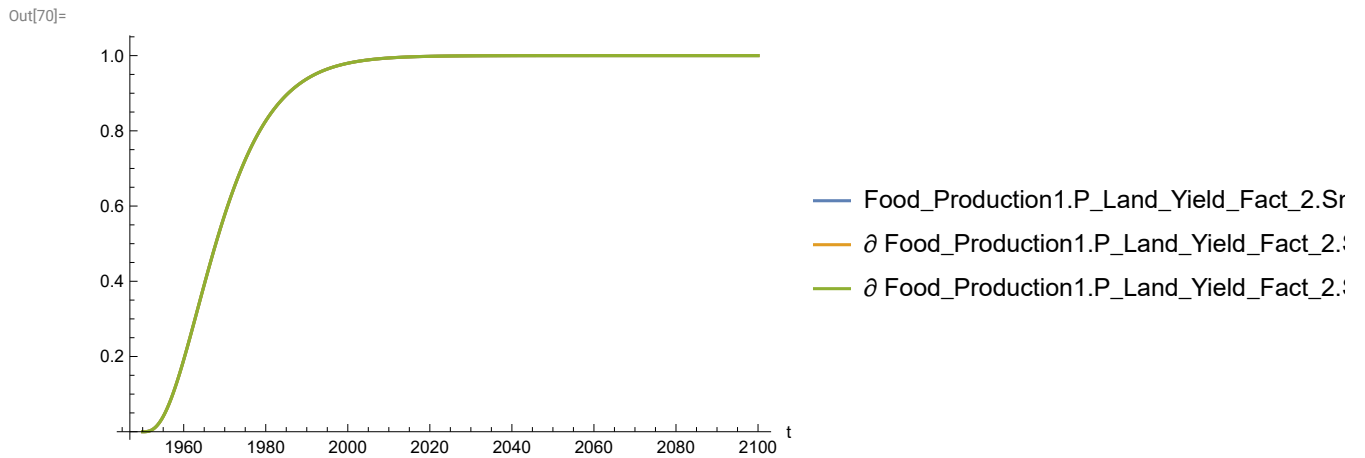


```
In[69]:= SystemModelPlot[simsensdata,
  {"Food_Production1.P_Land_Yield_Fact_2.Smooth2.Integrator1.y",
   "Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[7]", percentvar}]
```

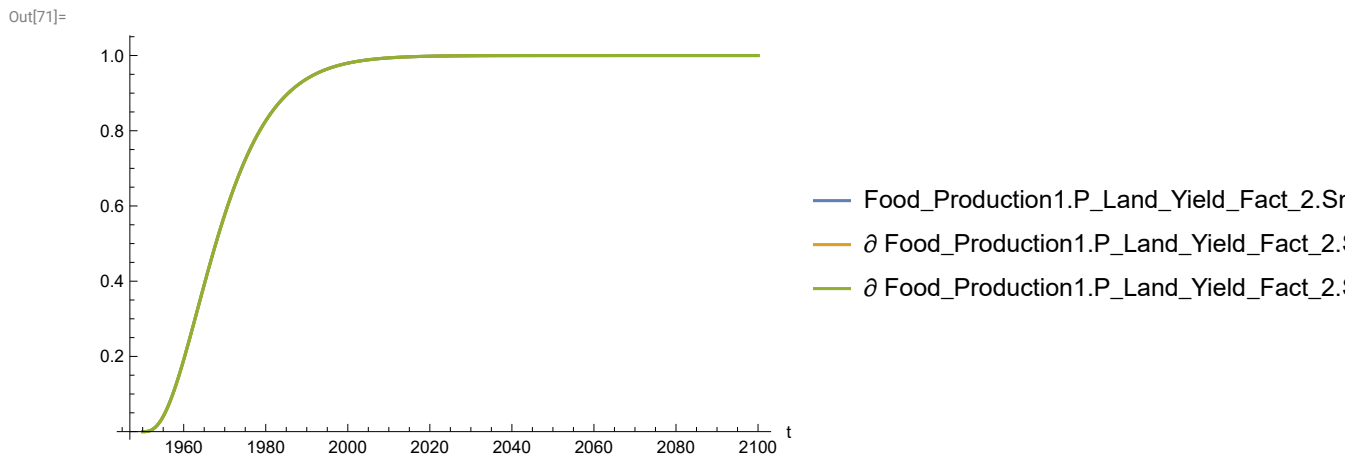


Plot sensitivity of **Food_Production1.P_Land_Yield_Fact_2.Smooth3.Integrator1.y** to Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals

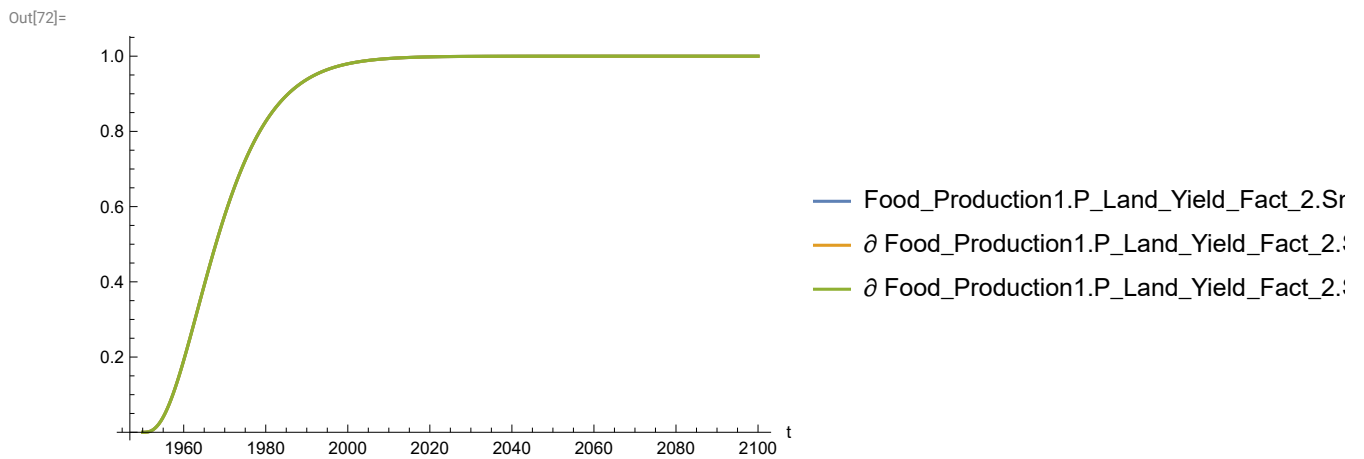
```
In[70]:= SystemModelPlot[simsensdata,
  {"Food_Production1.P_Land_Yield_Fact_2.Smooth3.Integrator1.y",
   "Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[1]", percentvar}]
```



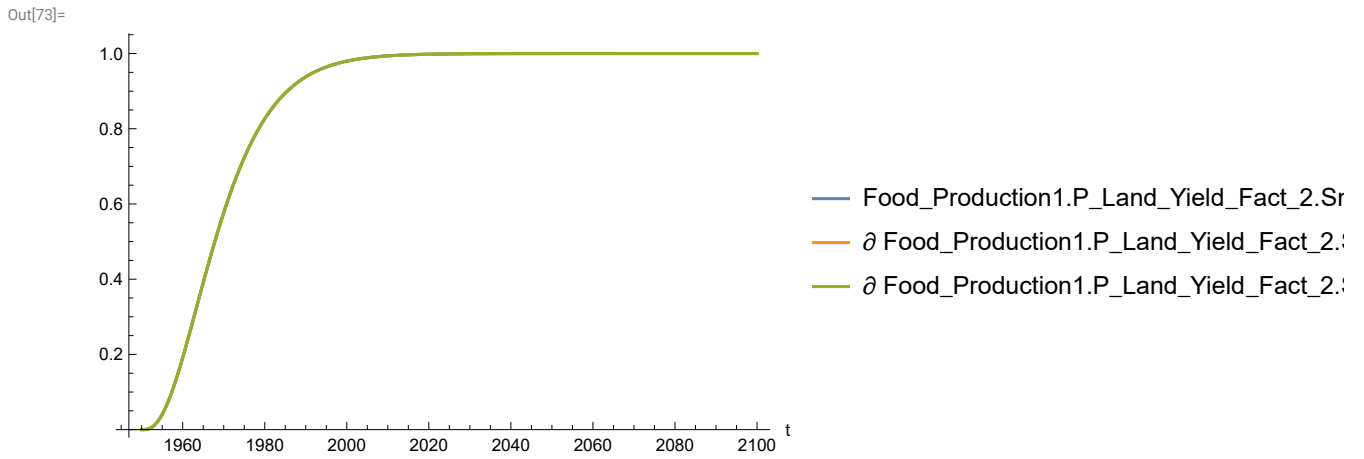
```
In[71]:= SystemModelPlot[simsensdata,
  {"Food_Production1.P_Land_Yield_Fact_2.Smooth3.Integrator1.y",
   "Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[2]", percentvar}]
```



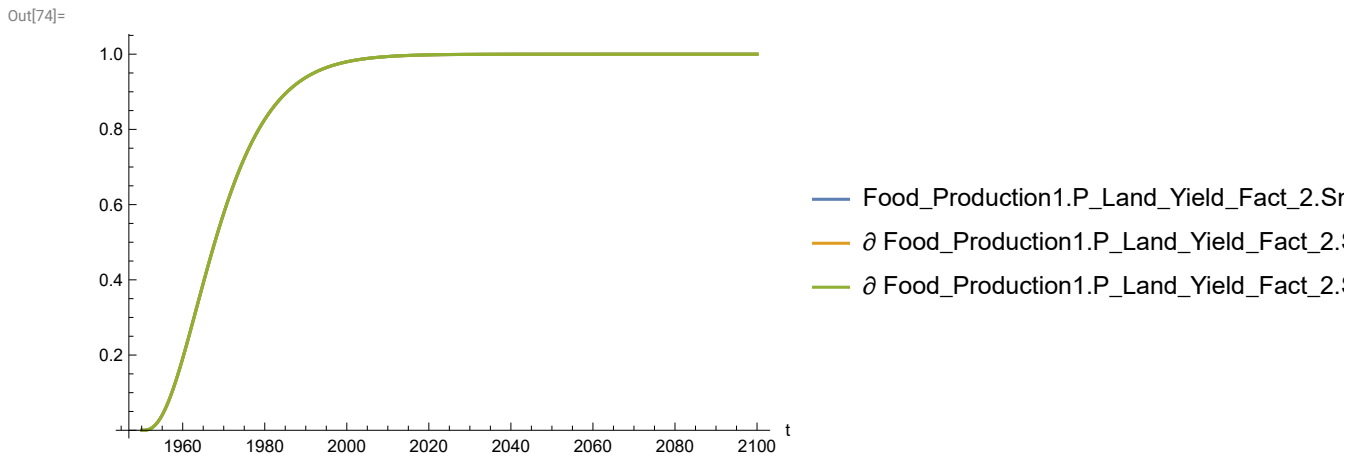
```
In[72]:= SystemModelPlot[simsensdata,
  {"Food_Production1.P_Land_Yield_Fact_2.Smooth3.Integrator1.y",
   "Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[3]", percentvar}]
```



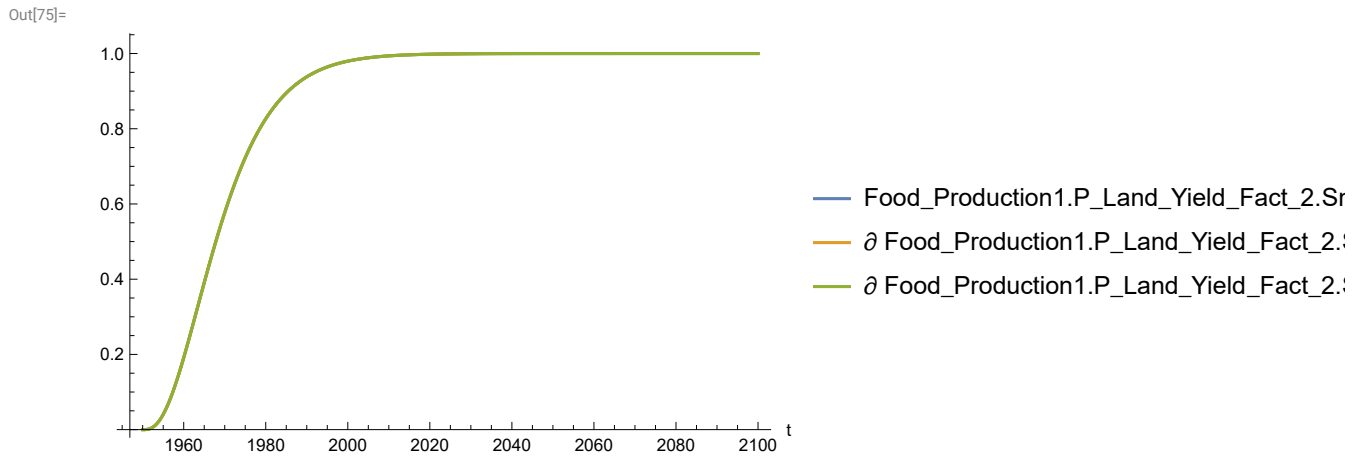

```
In[73]:= SystemModelPlot[simsensdata,
  {"Food_Production1.P_Land_Yield_Fact_2.Smooth3.Integrator1.y",
   "Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[4]", percentvar}]
```



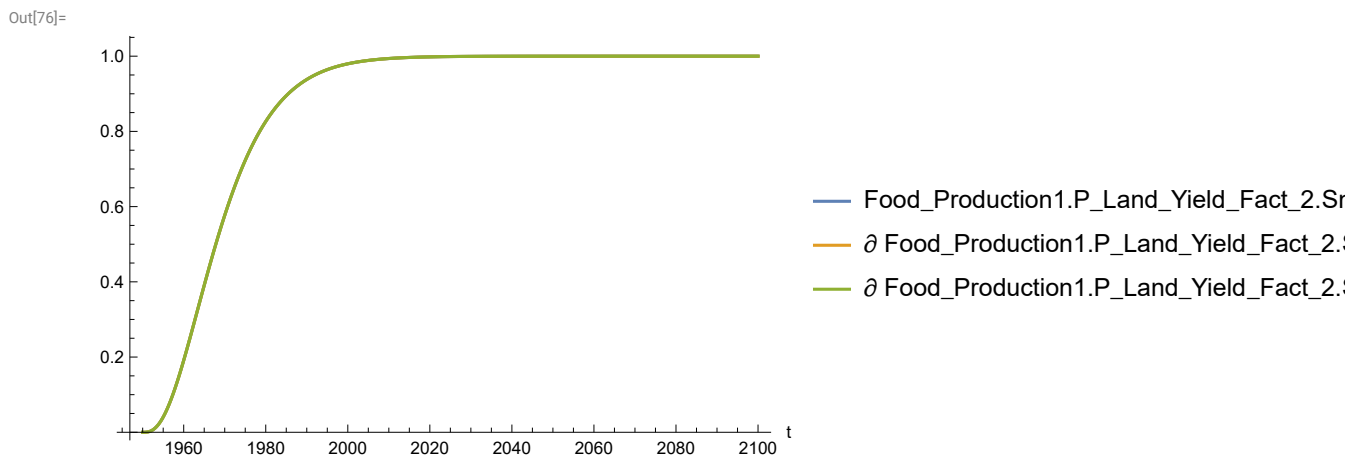
```
In[74]:= SystemModelPlot[simsensdata,
  {"Food_Production1.P_Land_Yield_Fact_2.Smooth3.Integrator1.y",
   "Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[5]", percentvar}]
```



```
In[75]:= SystemModelPlot[simsensdata,
  {"Food_Production1.P_Land_Yield_Fact_2.Smooth3.Integrator1.y",
   "Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[6]", percentvar}]
```



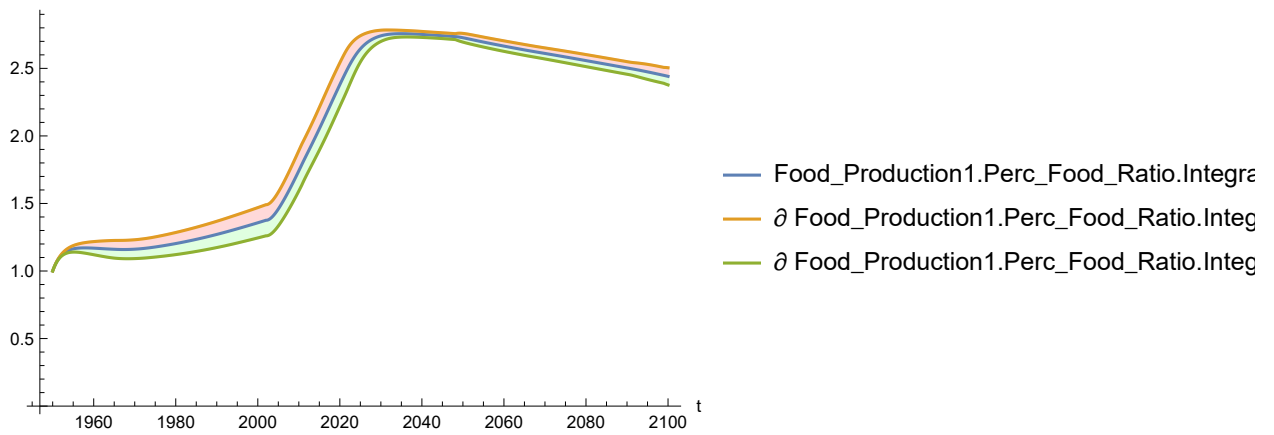
```
In[76]:= SystemModelPlot[simsensdata,
  {"Food_Production1.P_Land_Yield_Fact_2.Smooth3.Integrator1.y",
   "Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[7]", percentvar}]
```



Plot sensitivity of **Food_Production1.Perc_Food_Ratio.Integrator1.y** to **Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals**

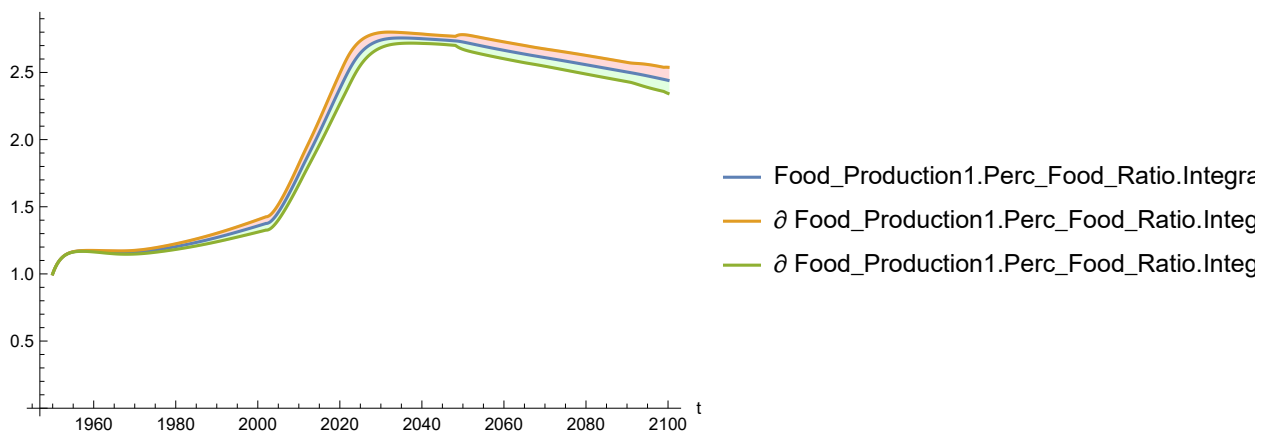
```
In[77]:= SystemModelPlot[simsensdata, {"Food_Production1.Perc_Food_Ratio.Integrator1.y",
"Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[1]", percentvar}]
```

Out[77]=



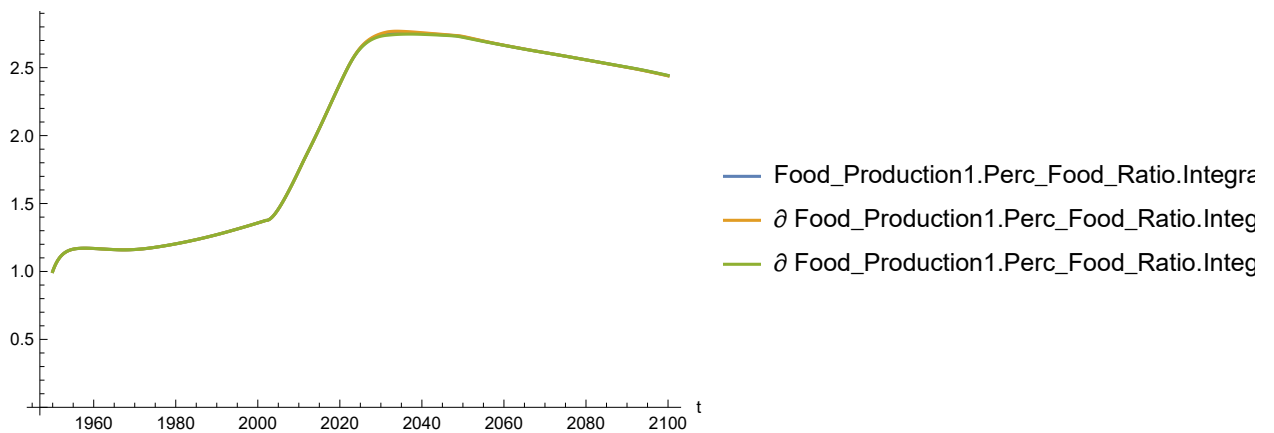
```
In[78]:= SystemModelPlot[simsensdata, {"Food_Production1.Perc_Food_Ratio.Integrator1.y",
"Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[2]", percentvar}]
```

Out[78]=



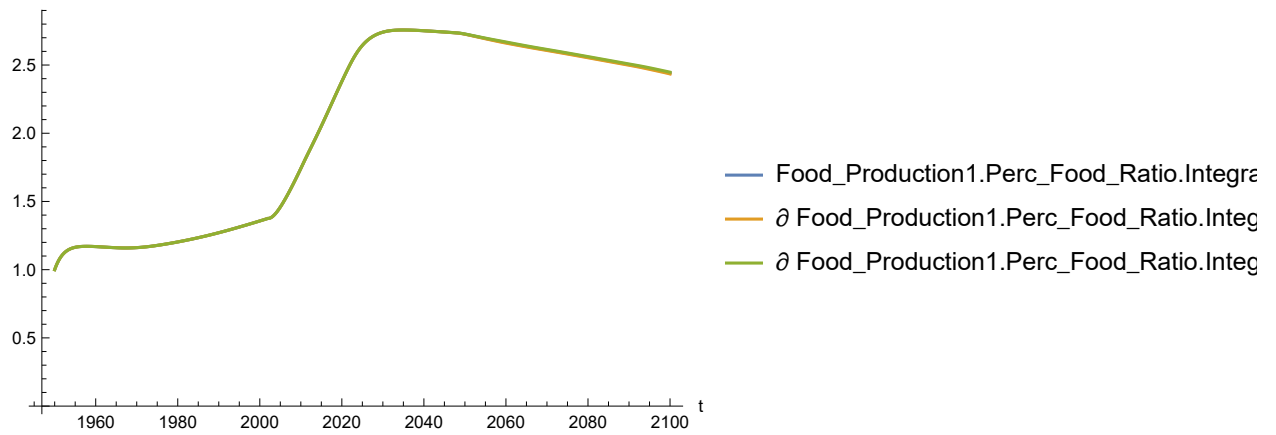
```
In[79]:= SystemModelPlot[simsensdata, {"Food_Production1.Perc_Food_Ratio.Integrator1.y",
"Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[3]", percentvar}]
```

Out[79]=



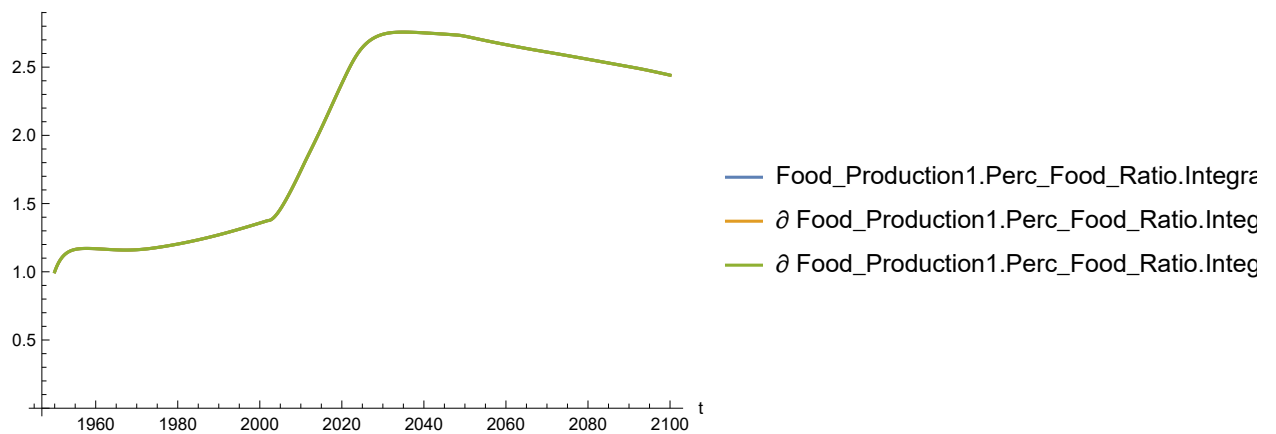
```
In[80]:= SystemModelPlot[simsensdata, {"Food_Production1.Perc_Food_Ratio.Integrator1.y",
"Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[4]", percentvar}]
```

Out[80]=



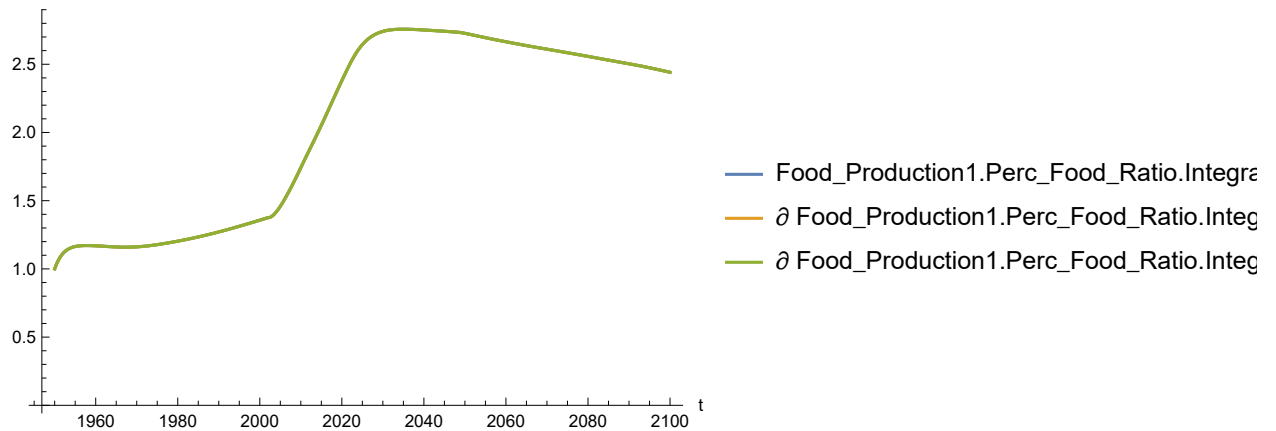
```
In[81]:= SystemModelPlot[simsensdata, {"Food_Production1.Perc_Food_Ratio.Integrator1.y",
"Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[5]", percentvar}]
```

Out[81]=



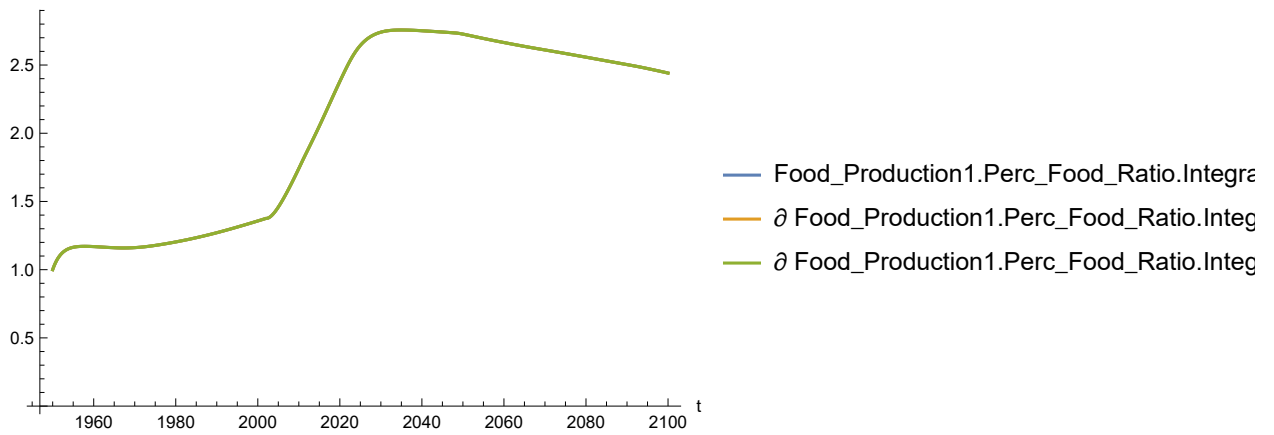
```
In[82]:= SystemModelPlot[simsensdata, {"Food_Production1.Perc_Food_Ratio.Integrator1.y",
"Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[6]", percentvar}]
```

Out[82]=



```
In[83]:= SystemModelPlot[simsensdata, {"Food_Production1.Perc_Food_Ratio.Integrator1.y",
"Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[7]", percentvar}]
```

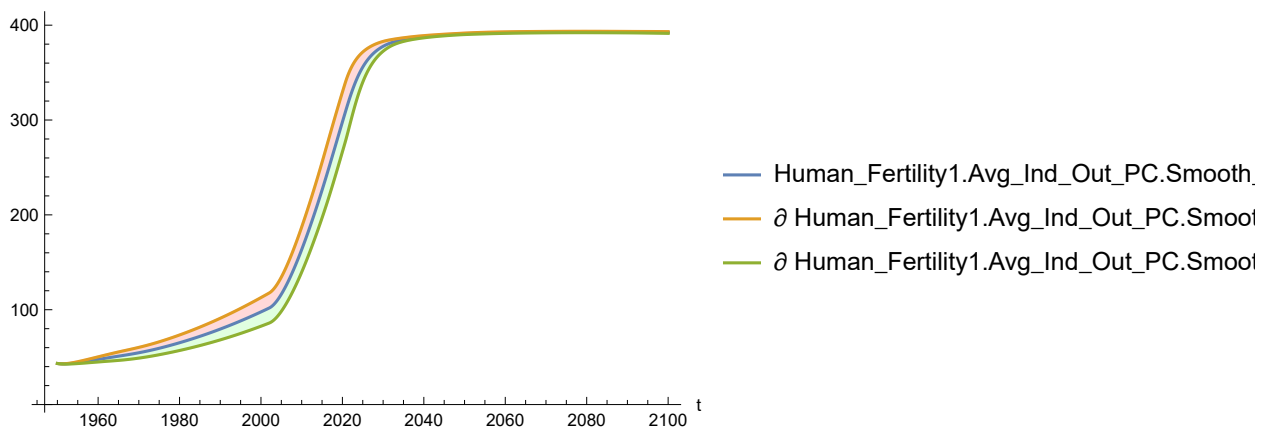
Out[83]=



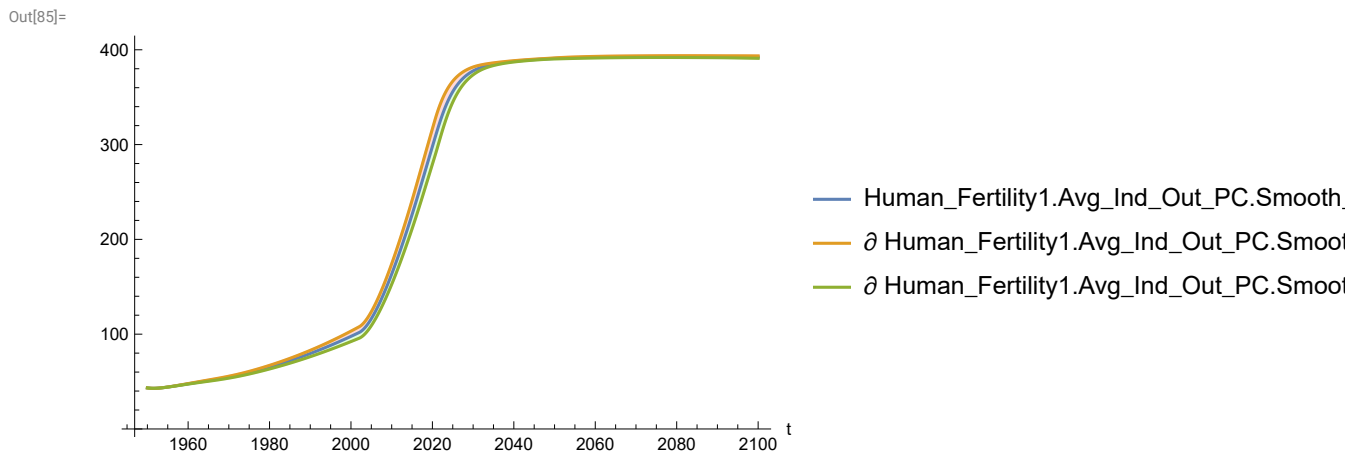
Plot the sensitivity of `Human_Fertility1.Avg_Ind_Out_PC.Smooth_of_Input.Integrator1.y` to `Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals`.

```
In[84]:= SystemModelPlot[simsensdata,
{"Human_Fertility1.Avg_Ind_Out_PC.Smooth_of_Input.Integrator1.y",
"Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[1]", percentvar}]
```

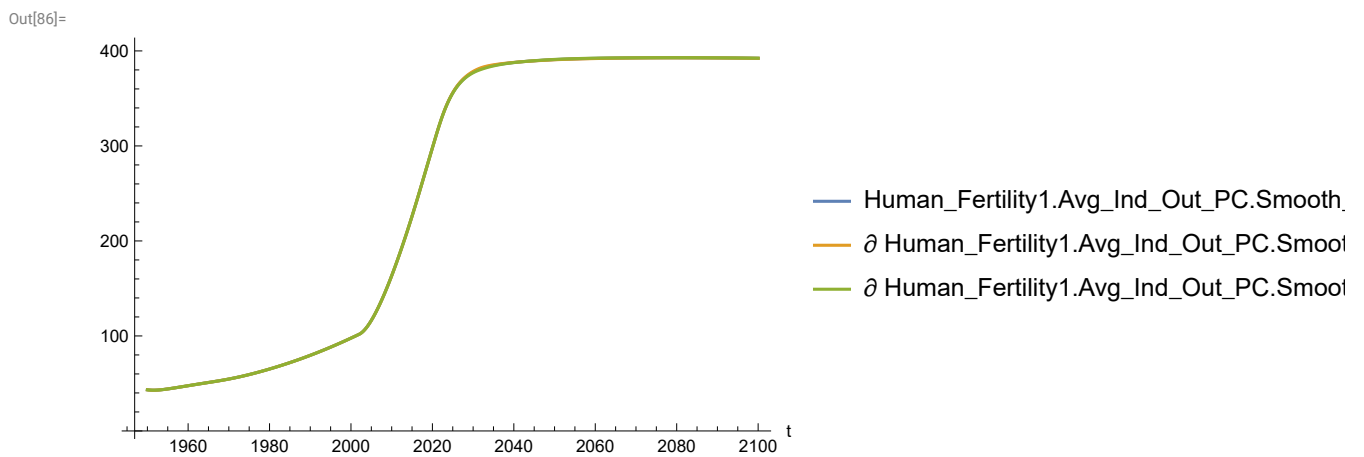
Out[84]=



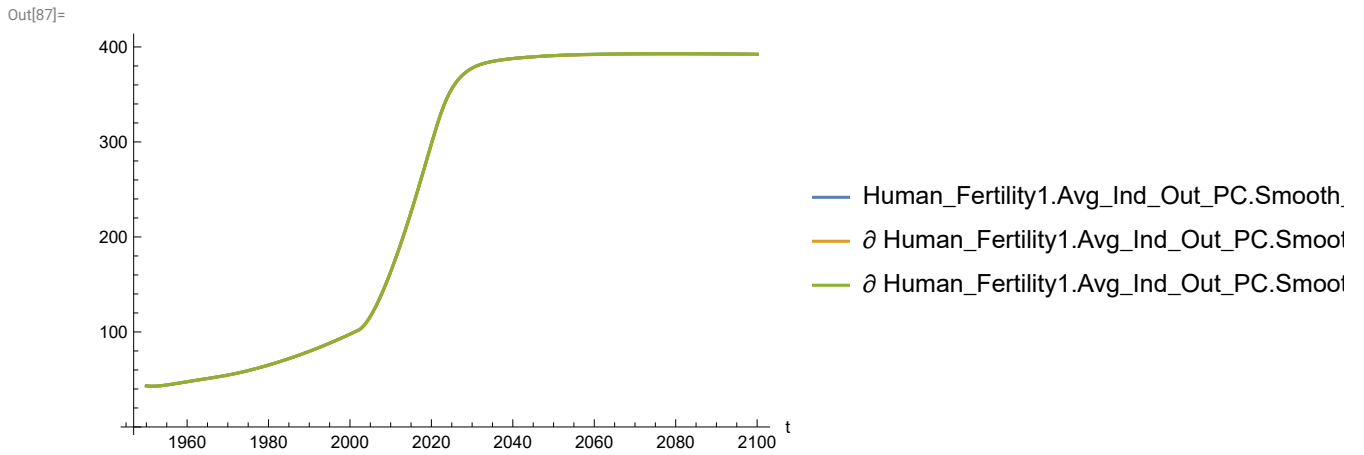
```
In[85]:= SystemModelPlot[simsensdata,
  {"Human_Fertility1.Avg_Ind_Out_PC.Smooth_of_Input.Integrator1.y",
   "Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[2]", percentvar}]
```



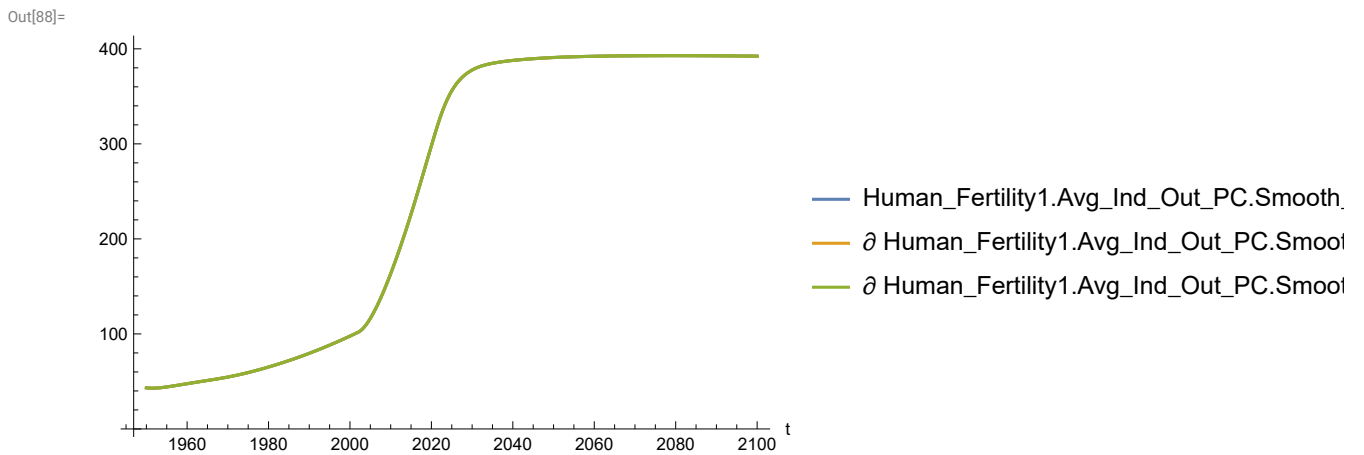
```
In[86]:= SystemModelPlot[simsensdata,
  {"Human_Fertility1.Avg_Ind_Out_PC.Smooth_of_Input.Integrator1.y",
   "Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[3]", percentvar}]
```



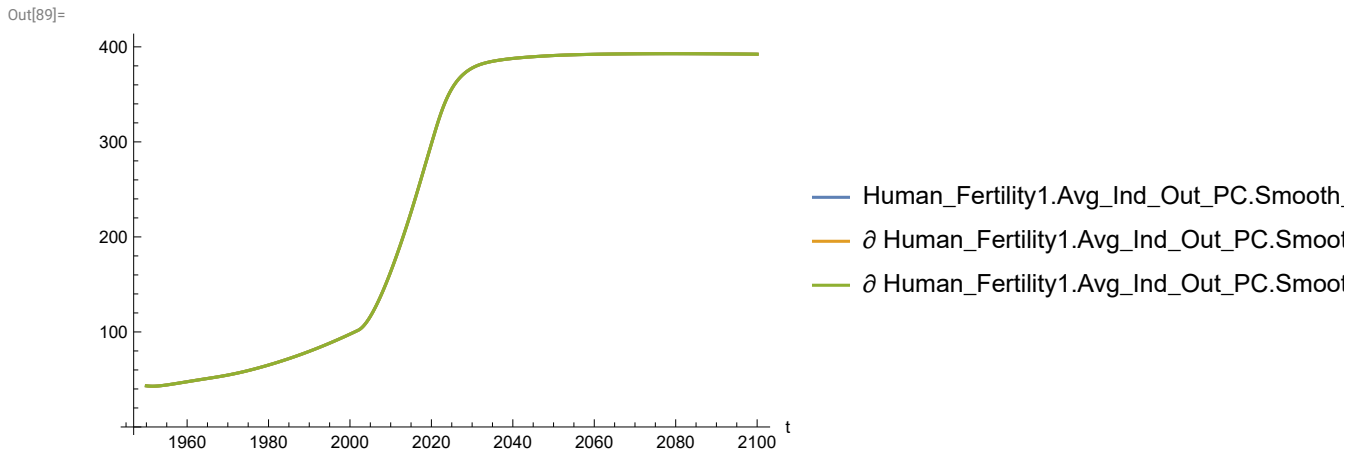
```
In[87]:= SystemModelPlot[simsensdata,
  {"Human_Fertility1.Avg_Ind_Out_PC.Smooth_of_Input.Integrator1.y",
   "Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[4]", percentvar}]
```



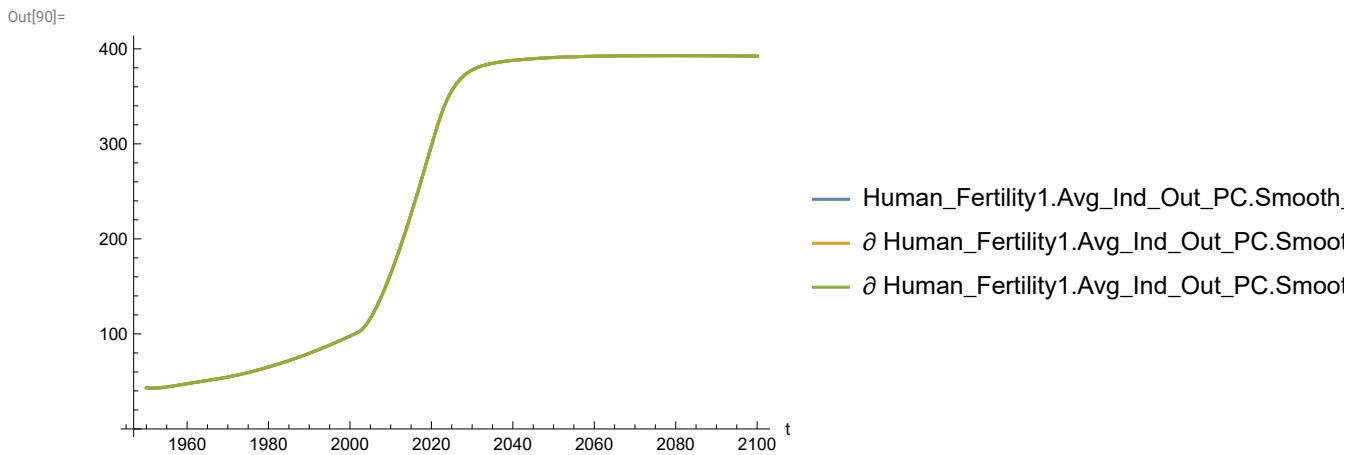
```
In[88]:= SystemModelPlot[simsensdata,
  {"Human_Fertility1.Avg_Ind_Out_PC.Smooth_of_Input.Integrator1.y",
   "Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[5]", percentvar}]
```



```
In[89]:= SystemModelPlot[simsensdata,
  {"Human_Fertility1.Avg_Ind_Out_PC.Smooth_of_Input.Integrator1.y",
   "Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[6]", percentvar}]
```



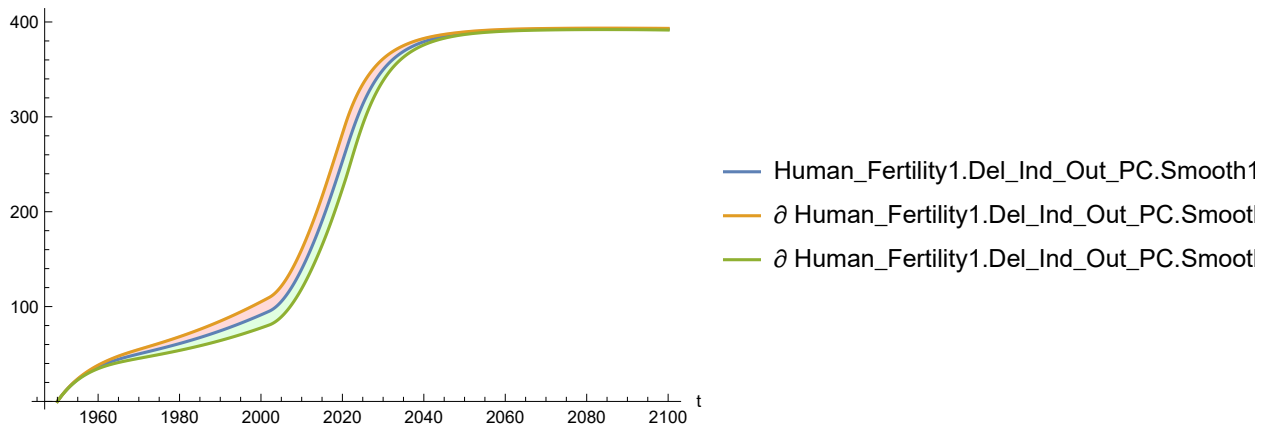
```
In[90]:= SystemModelPlot[simsensdata,
  {"Human_Fertility1.Avg_Ind_Out_PC.Smooth_of_Input.Integrator1.y",
   "Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[7]", percentvar}]
```



Plot the sensitivity of Human_Fertility1.Del_Ind_Out_PC.Smooth1.Integrator1.y to Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals.

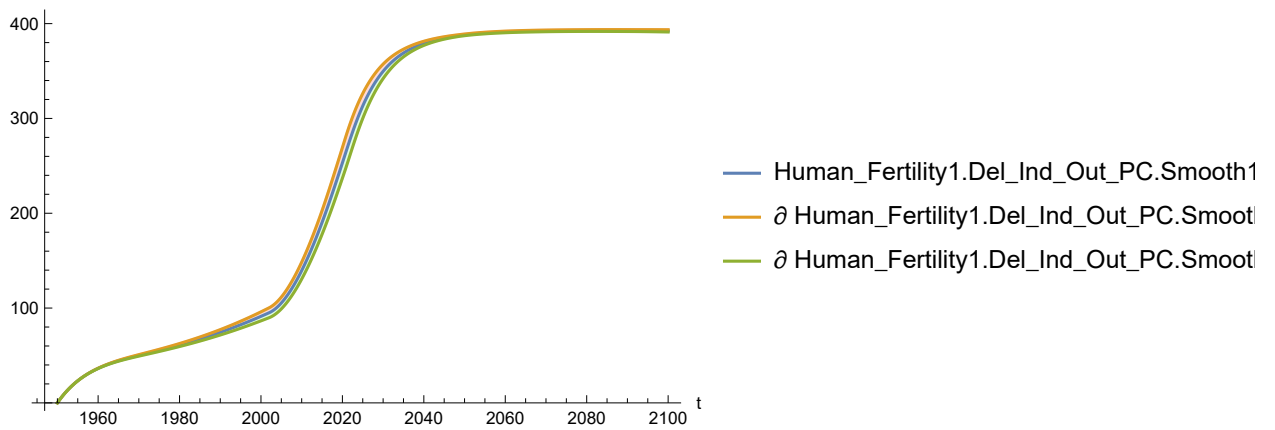

```
In[91]:= SystemModelPlot[simsensdata, {"Human_Fertility1.Del_Ind_Out_PC.Smooth1.Integrator1.y",
"Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[1]", percentvar}]
```

Out[91]=



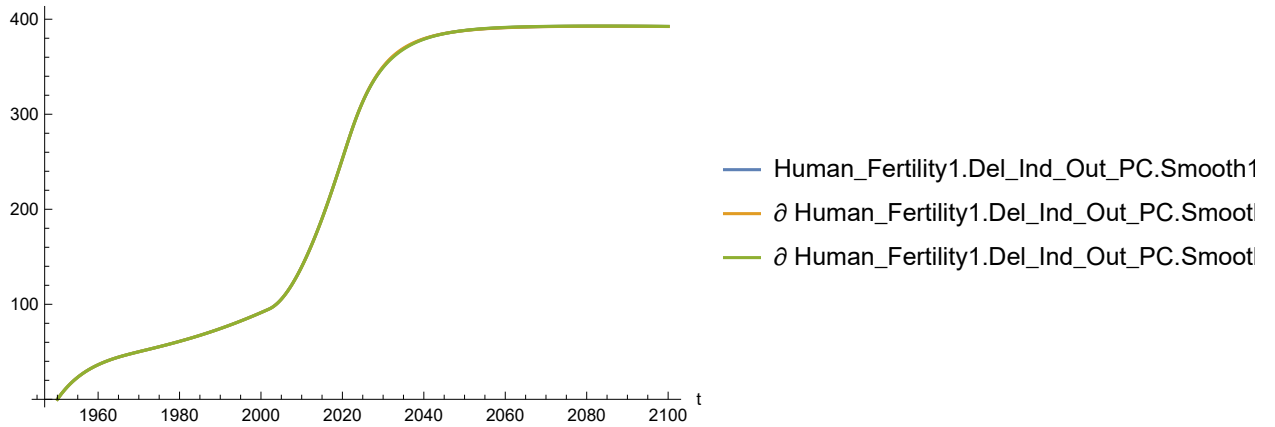
```
In[92]:= SystemModelPlot[simsensdata, {"Human_Fertility1.Del_Ind_Out_PC.Smooth1.Integrator1.y",
"Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[2]", percentvar}]
```

Out[92]=



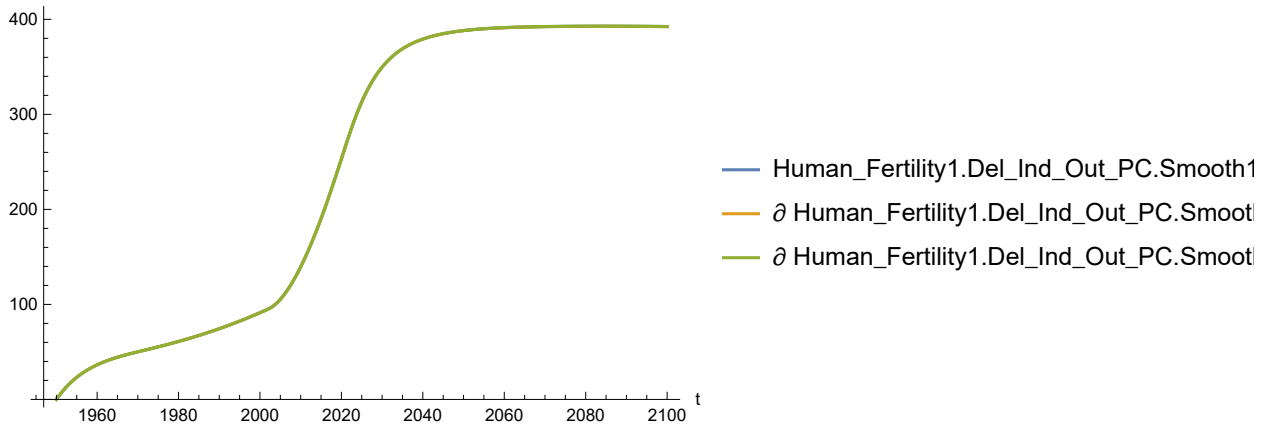
```
In[93]:= SystemModelPlot[simsensdata, {"Human_Fertility1.Del_Ind_Out_PC.Smooth1.Integrator1.y",
"Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[3]", percentvar}]
```

Out[93]=



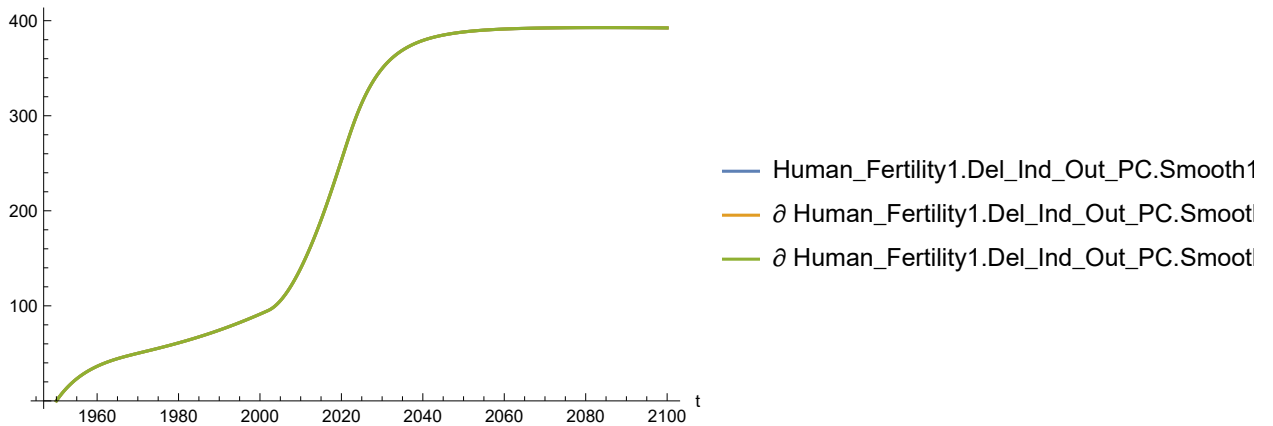
```
In[94]:= SystemModelPlot[simsensdata, {"Human_Fertility1.Del_Ind_Out_PC.Smooth1.Integrator1.y",
"Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[4]", percentvar}]
```

Out[94]=



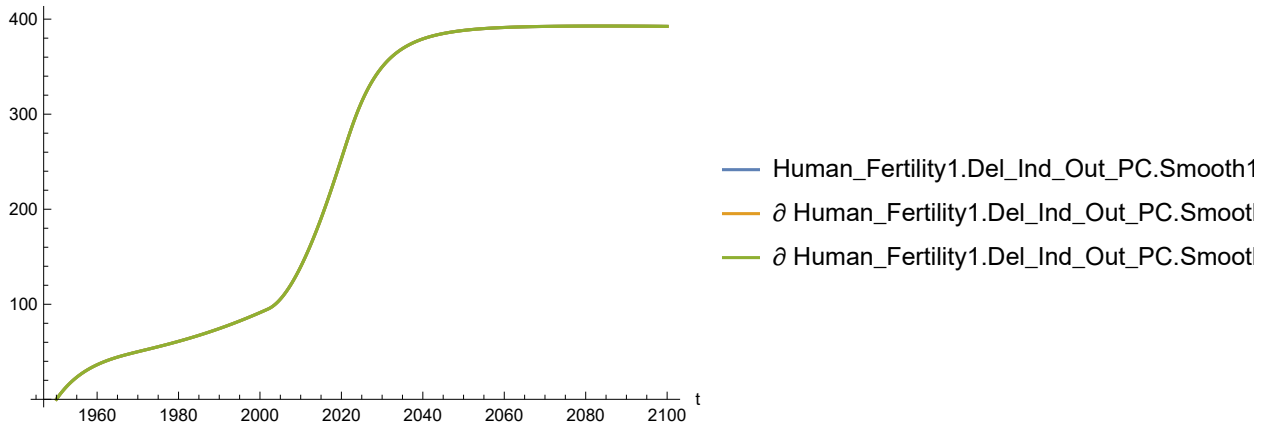
```
In[95]:= SystemModelPlot[simsensdata, {"Human_Fertility1.Del_Ind_Out_PC.Smooth1.Integrator1.y",
"Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[5]", percentvar}]
```

Out[95]=



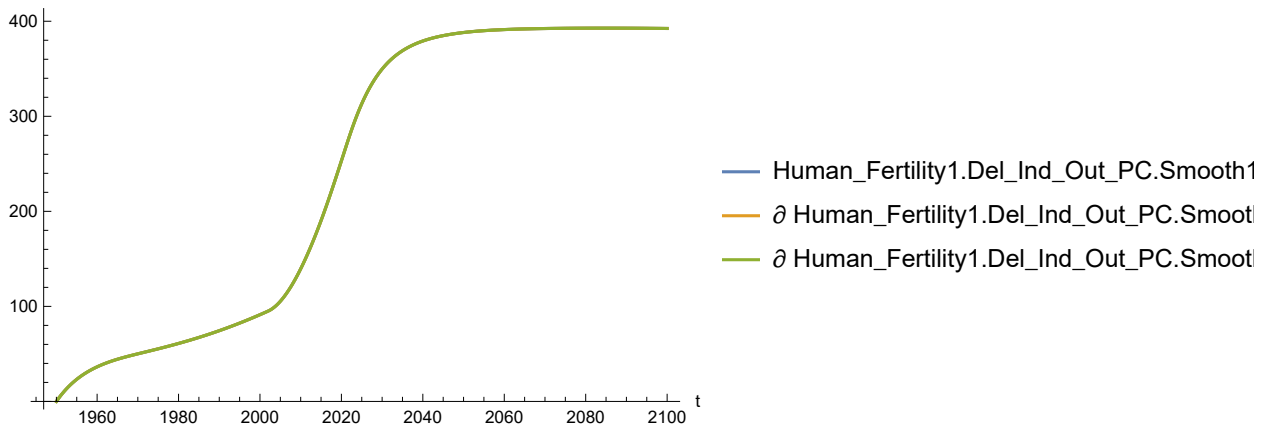
```
In[96]:= SystemModelPlot[simsensdata, {"Human_Fertility1.Del_Ind_Out_PC.Smooth1.Integrator1.y",
"Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[6]", percentvar}]
```

Out[96]=



```
In[97]:= SystemModelPlot[simsensdata, {"Human_Fertility1.De1_Ind_Out_PC.Smooth1.Integrator1.y",
"Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[7]", percentvar}]]
```

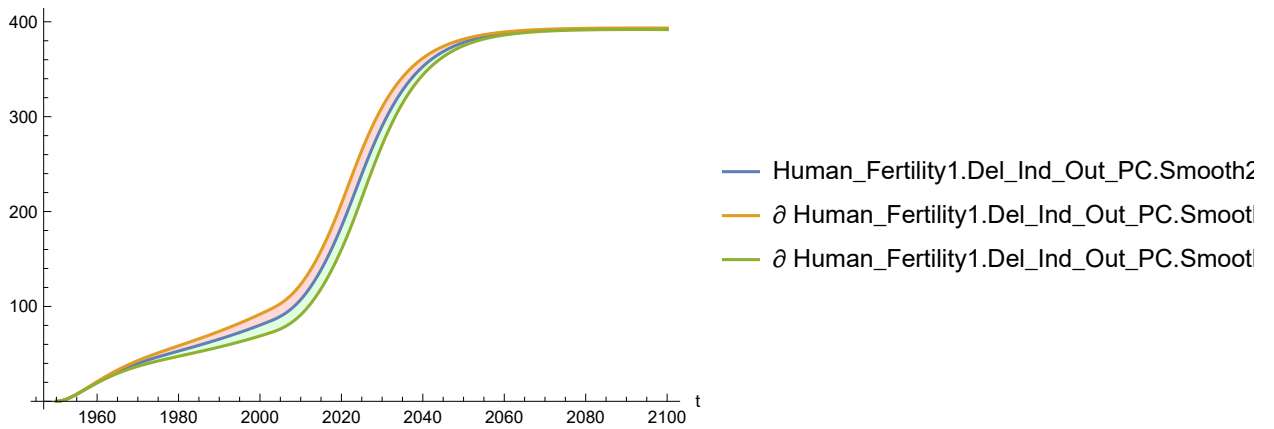
Out[97]=



Plot the sensitivity of Human_Fertility1.De1_Ind_Out_PC.Smooth2.Integrator1.y to Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals.

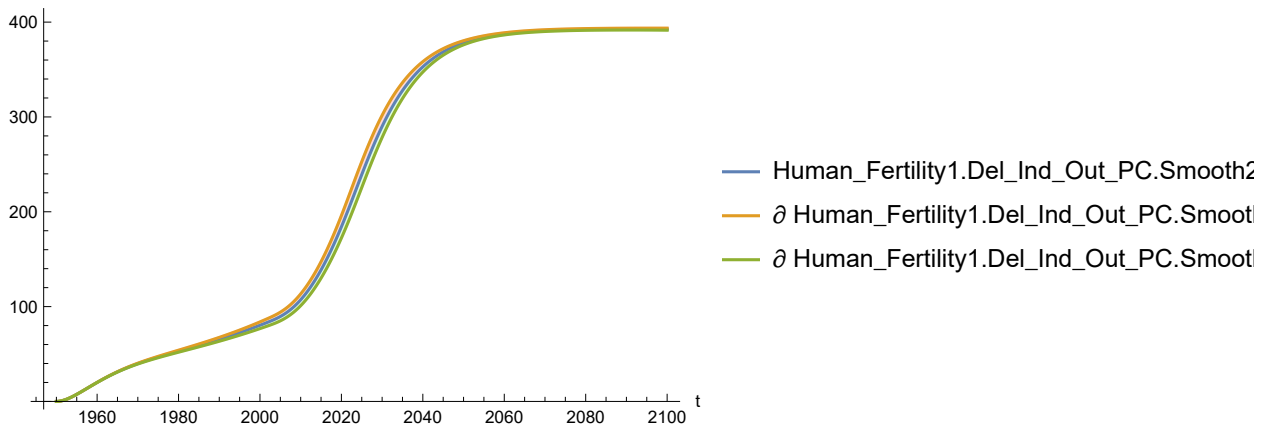
```
In[98]:= SystemModelPlot[simsensdata, {"Human_Fertility1.De1_Ind_Out_PC.Smooth2.Integrator1.y",
"Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[1]", percentvar}]]
```

Out[98]=



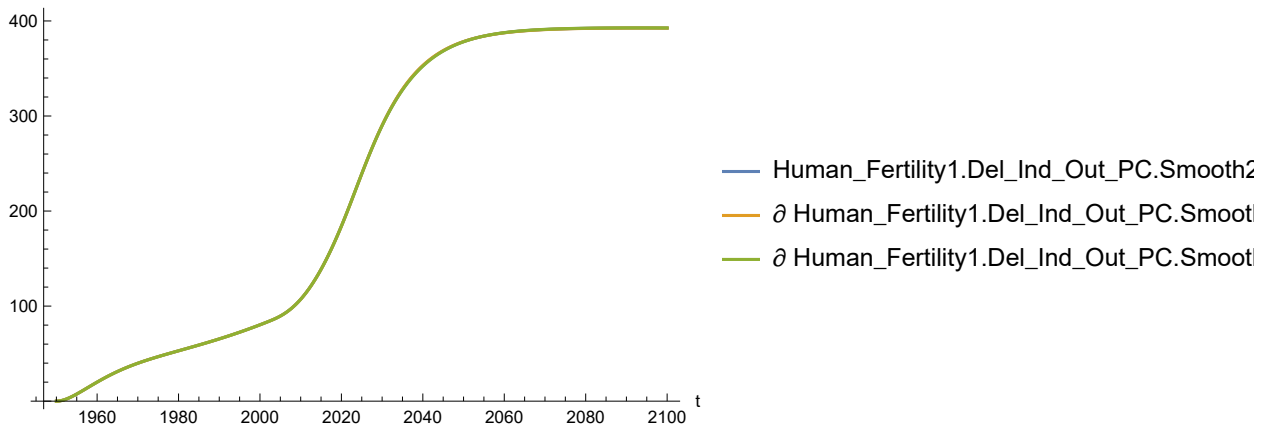
```
In[99]:= SystemModelPlot[simsensdata, {"Human_Fertility1.Del_Ind_Out_PC.Smooth2.Integrator1.y",
"Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[2]", percentvar}]
```

Out[99]=



```
In[100]:= SystemModelPlot[simsensdata, {"Human_Fertility1.Del_Ind_Out_PC.Smooth2.Integrator1.y",
"Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[3]", percentvar}]
```

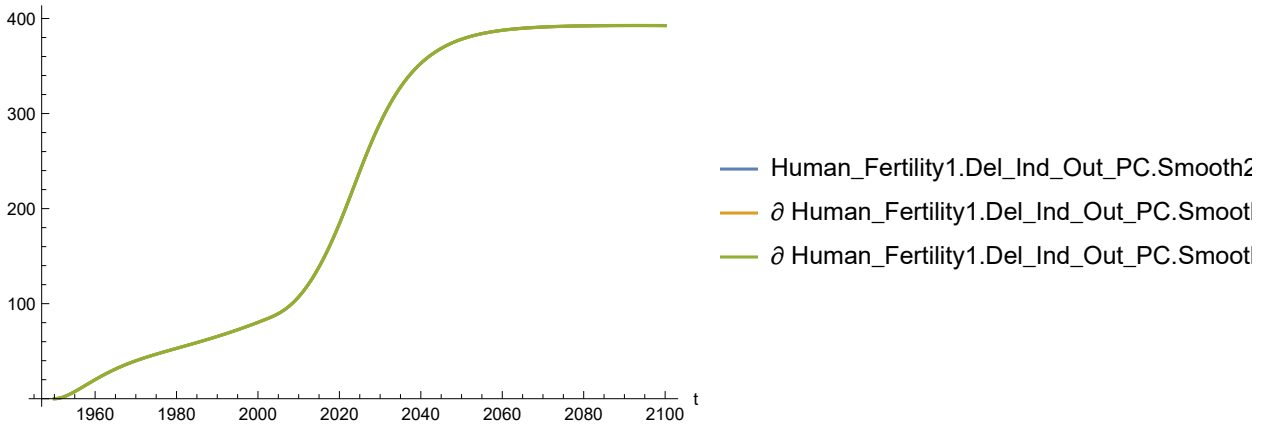
Out[100]=



In[101]:=

```
SystemModelPlot[simsensdata, {"Human_Fertility1.Del_Ind_Out_PC.Smooth2.Integrator1.y",
"Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[4]", percentvar}]
```

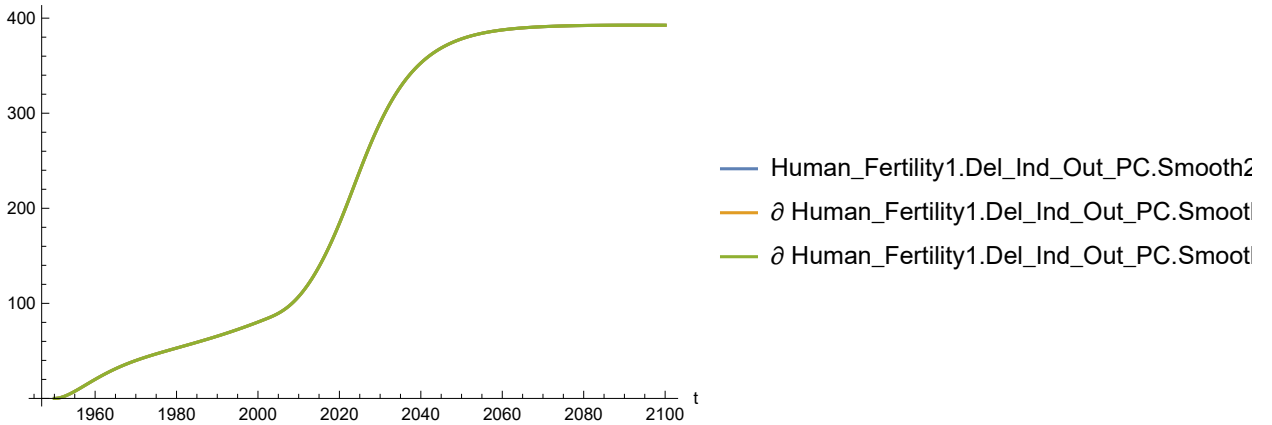
Out[101]=



In[102]:=

```
SystemModelPlot[simsensdata, {"Human_Fertility1.Del_Ind_Out_PC.Smooth2.Integrator1.y",
"Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[5]", percentvar}]
```

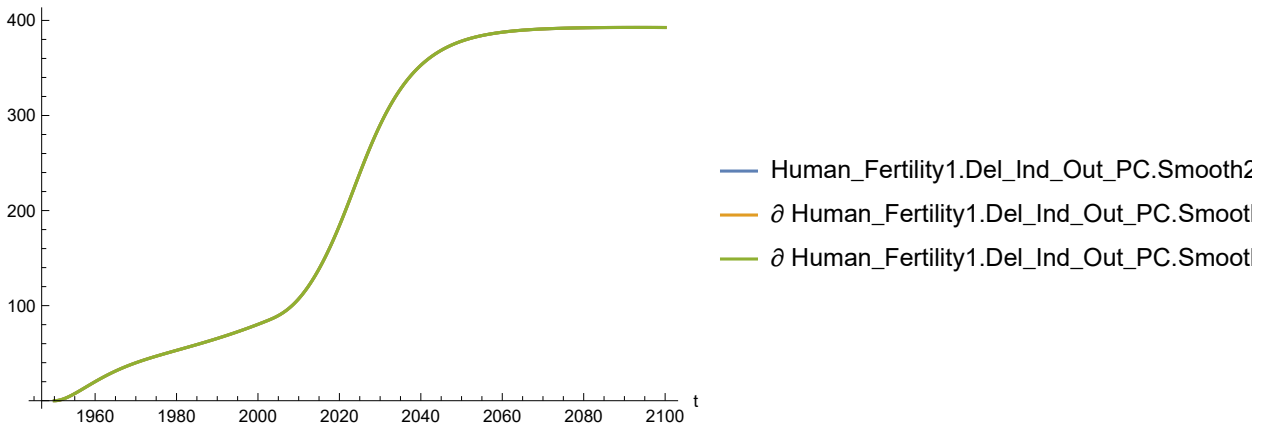
Out[102]=



In[103]:=

```
SystemModelPlot[simsensdata, {"Human_Fertility1.De1_Ind_Out_PC.Smooth2.Integrator1.y",
    "Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[6]", percentvar}]
```

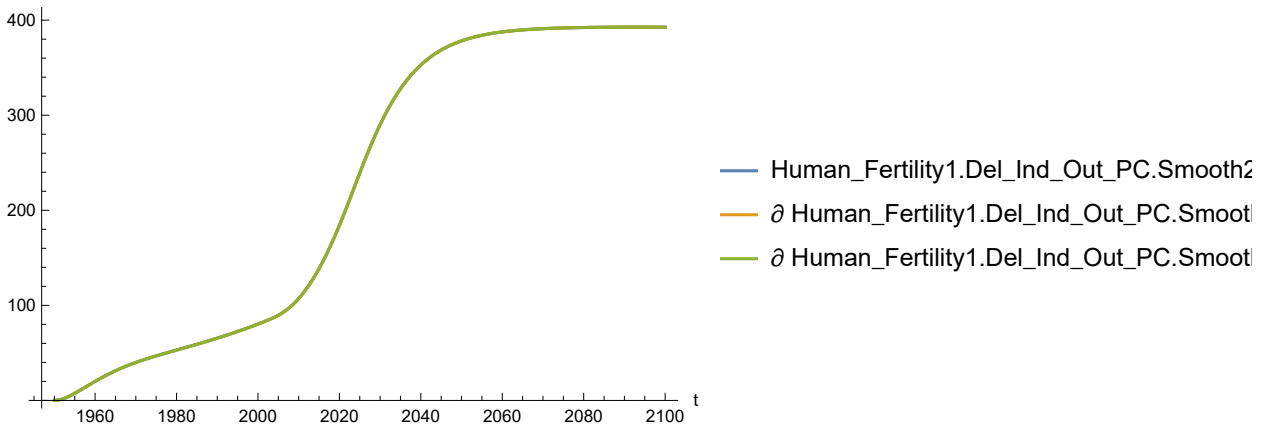
Out[103]=



In[104]:=

```
SystemModelPlot[simsensdata, {"Human_Fertility1.De1_Ind_Out_PC.Smooth2.Integrator1.y",
    "Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[7]", percentvar}]
```

Out[104]=

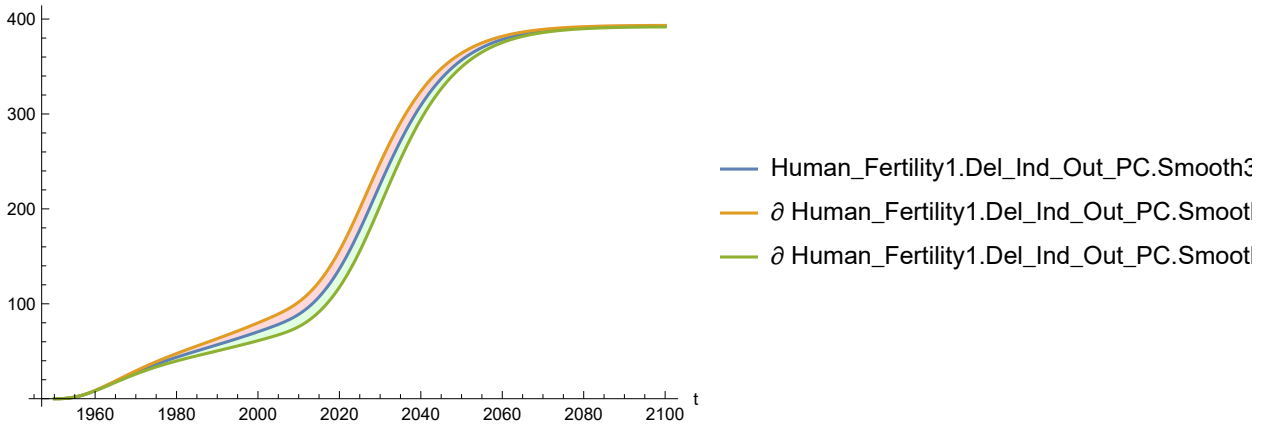


Plot the sensitivity of Human_Fertility1.De1_Ind_Out_PC.Smooth3.Integrator1.y to Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals.

In[105]:=

```
SystemModelPlot[simsensdata, {"Human_Fertility1.Del_Ind_Out_PC.Smooth3.Integrator1.y",
    "Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[1]", percentvar}]
```

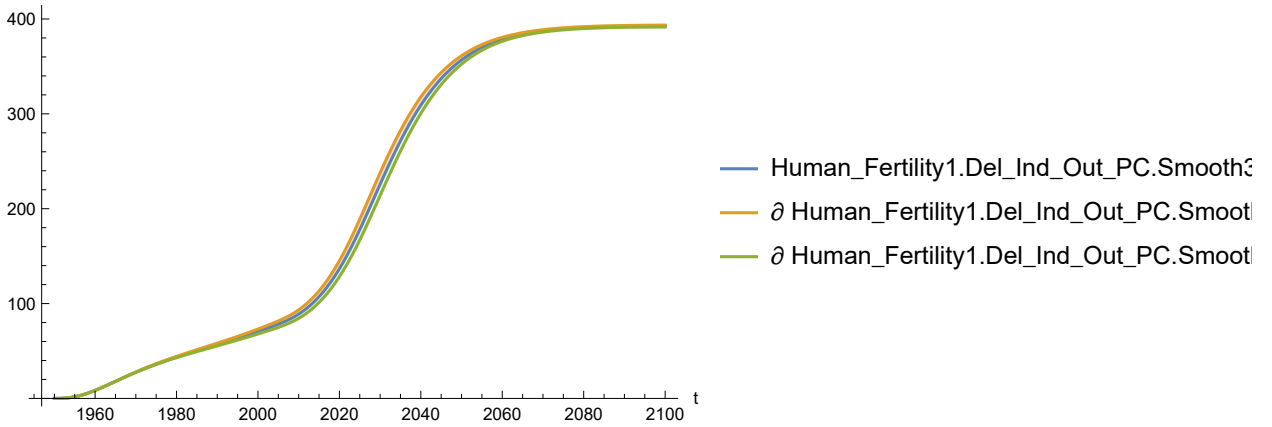
Out[105]=



In[106]:=

```
SystemModelPlot[simsensdata, {"Human_Fertility1.Del_Ind_Out_PC.Smooth3.Integrator1.y",
    "Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[2]", percentvar}]
```

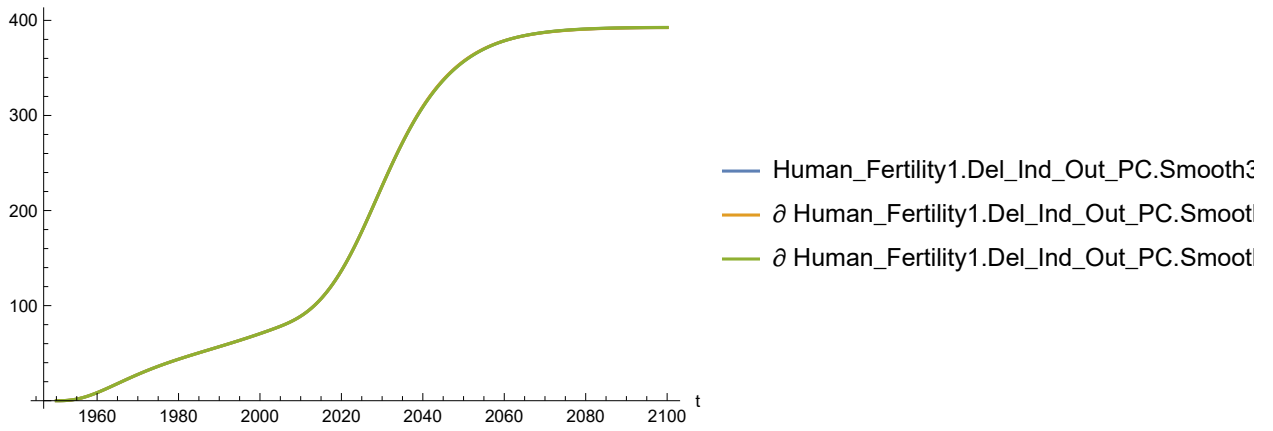
Out[106]=



In[107]:=

```
SystemModelPlot[simsensdata, {"Human_Fertility1.Del_Ind_Out_PC.Smooth3.Integrator1.y",
    "Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[3]", percentvar}]
```

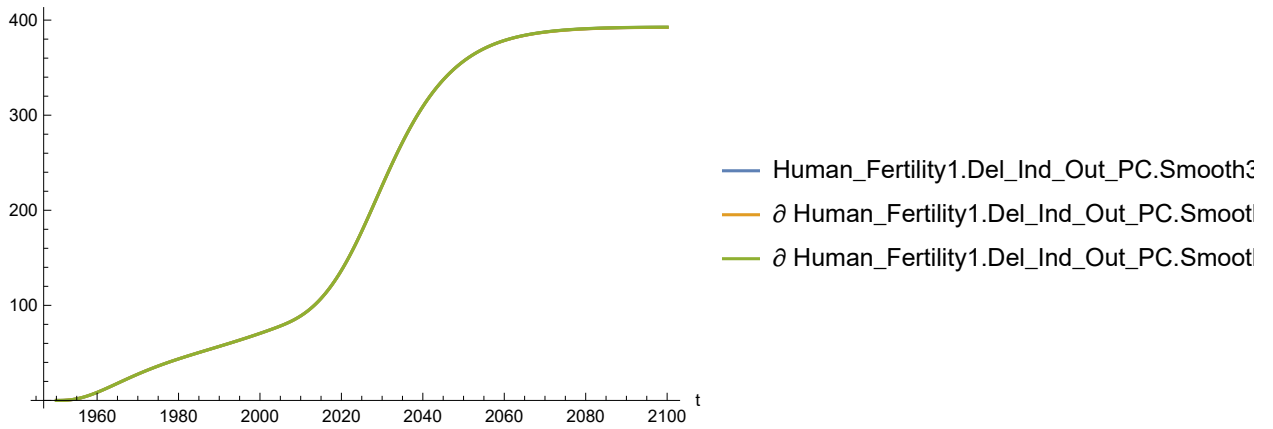
Out[107]=



In[108]:=

```
SystemModelPlot[simsensdata, {"Human_Fertility1.Del_Ind_Out_PC.Smooth3.Integrator1.y",
    "Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[4]", percentvar}]
```

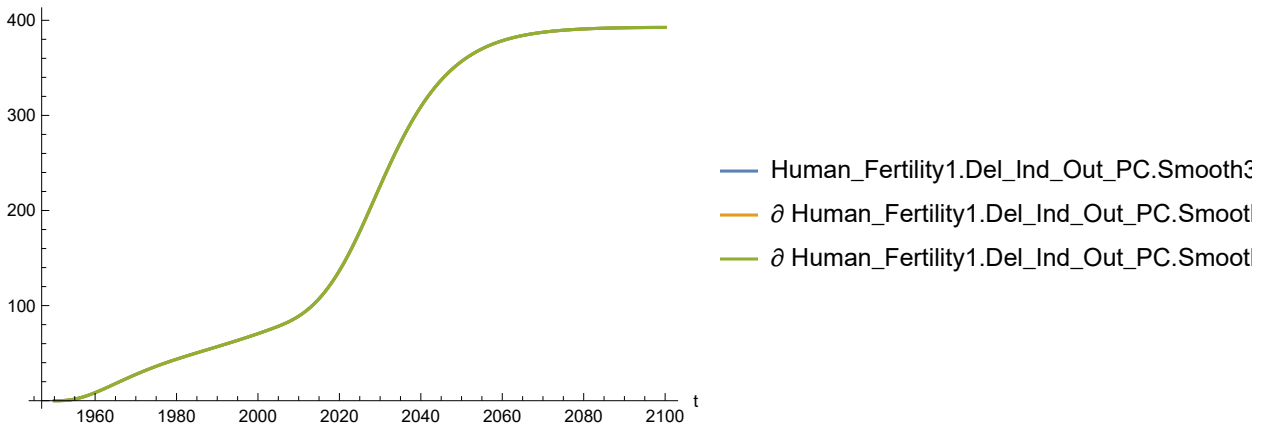
Out[108]=



In[109]:=

```
SystemModelPlot[simsensdata, {"Human_Fertility1.Del_Ind_Out_PC.Smooth3.Integrator1.y",
"Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[5]", percentvar}]
```

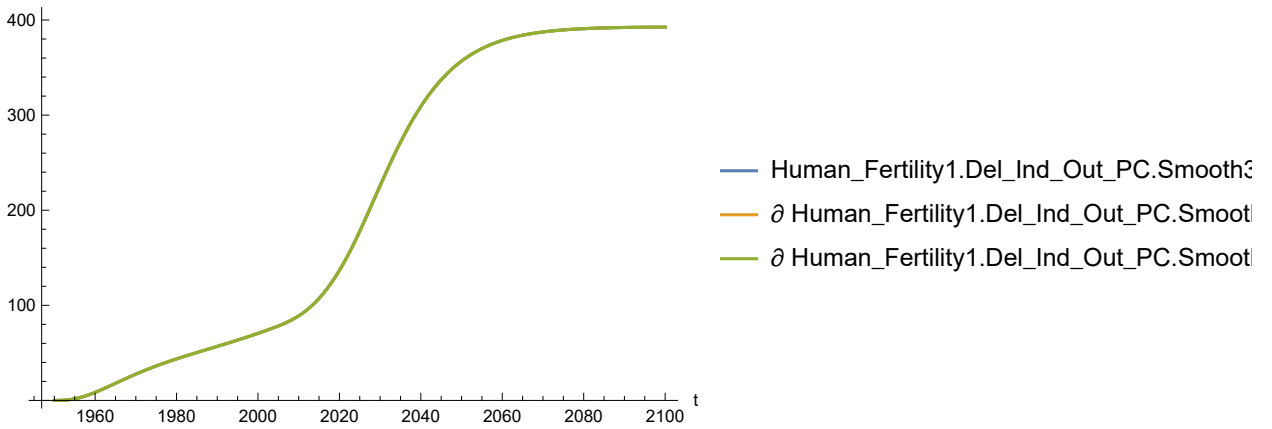
Out[109]=



In[110]:=

```
SystemModelPlot[simsensdata, {"Human_Fertility1.Del_Ind_Out_PC.Smooth3.Integrator1.y",
"Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[6]", percentvar}]
```

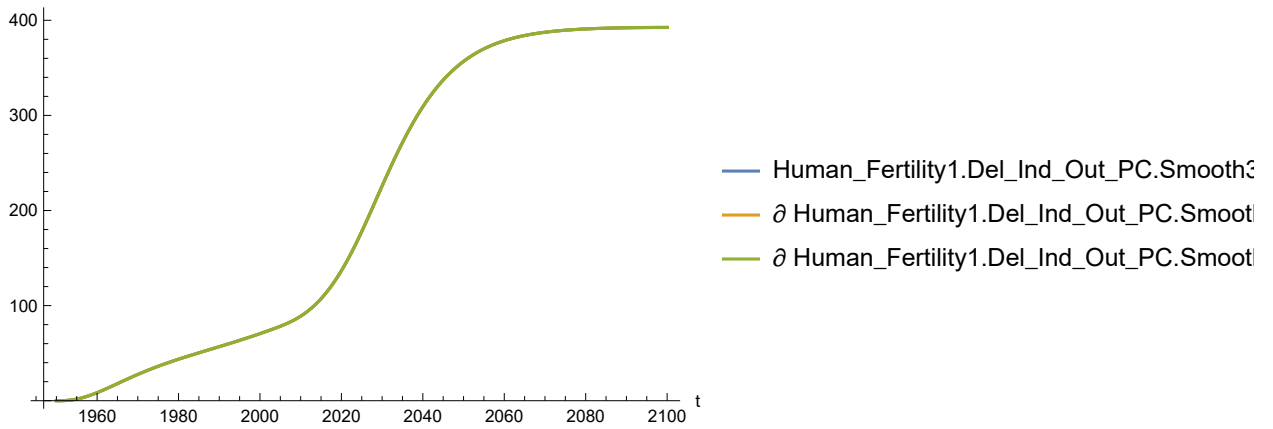
Out[110]=



In[111]:=

```
SystemModelPlot[simsensdata, {"Human_Fertility1.Del_Ind_Out_PC.Smooth3.Integrator1.y",
"Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[7]", percentvar}]]
```

Out[111]=

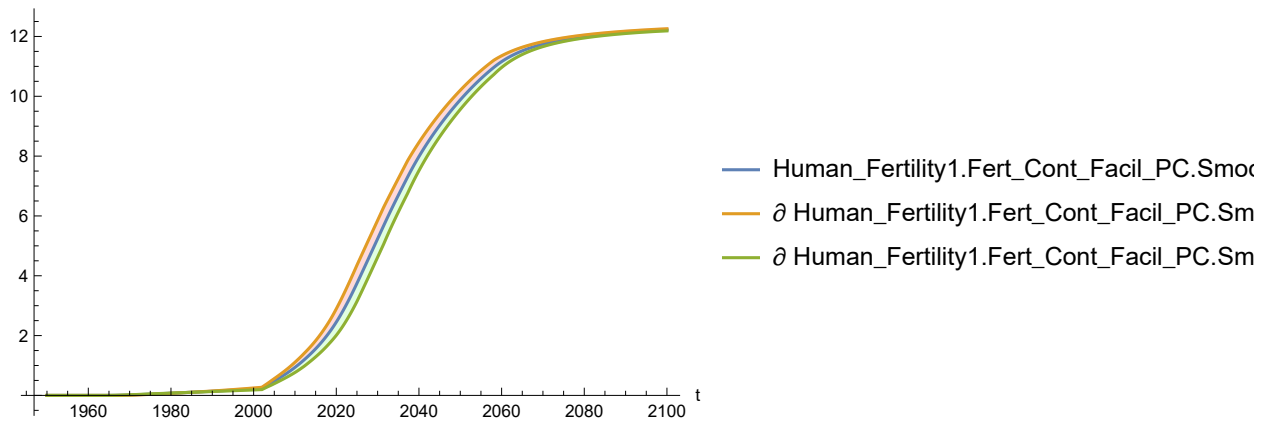


Plot the sensitivity of Human_Fertility1.Fert_Cont_Facil_PC.Smooth1.Integrator1.y to Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals.

In[112]:=

```
SystemModelPlot[simsensdata, {"Human_Fertility1.Fert_Cont_Facil_PC.Smooth1.Integrator1.y",
"Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[1]", percentvar}]]
```

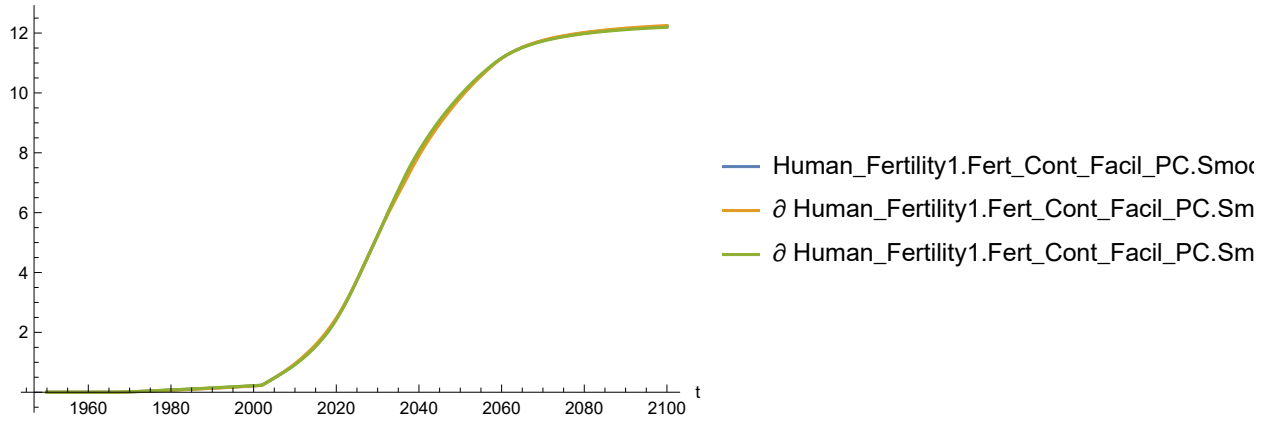
Out[112]=



In[113]:=

```
SystemModelPlot[simsensdata,
  {"Human_Fertility1.Fert_Cont_Facil_PC.Smooth1.Integrator1.y",
   "Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[2]", percentvar}]
```

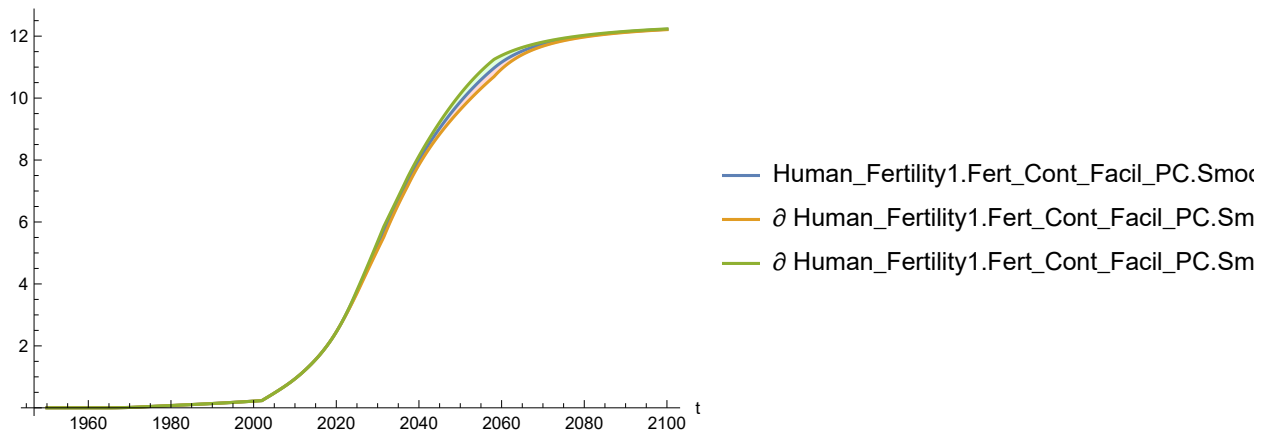
Out[113]=



In[114]:=

```
SystemModelPlot[simsensdata,
  {"Human_Fertility1.Fert_Cont_Facil_PC.Smooth1.Integrator1.y",
   "Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[3]", percentvar}]
```

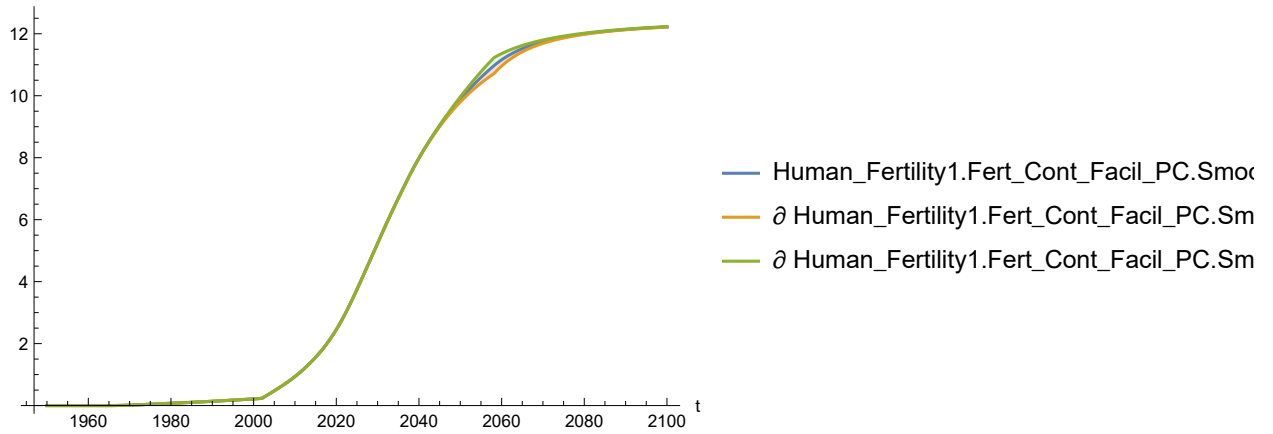
Out[114]=



In[115]:=

```
SystemModelPlot[simsensdata,
  {"Human_Fertility1.Fert_Cont_Facil_PC.Smooth1.Integrator1.y",
   "Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[4]", percentvar}]
```

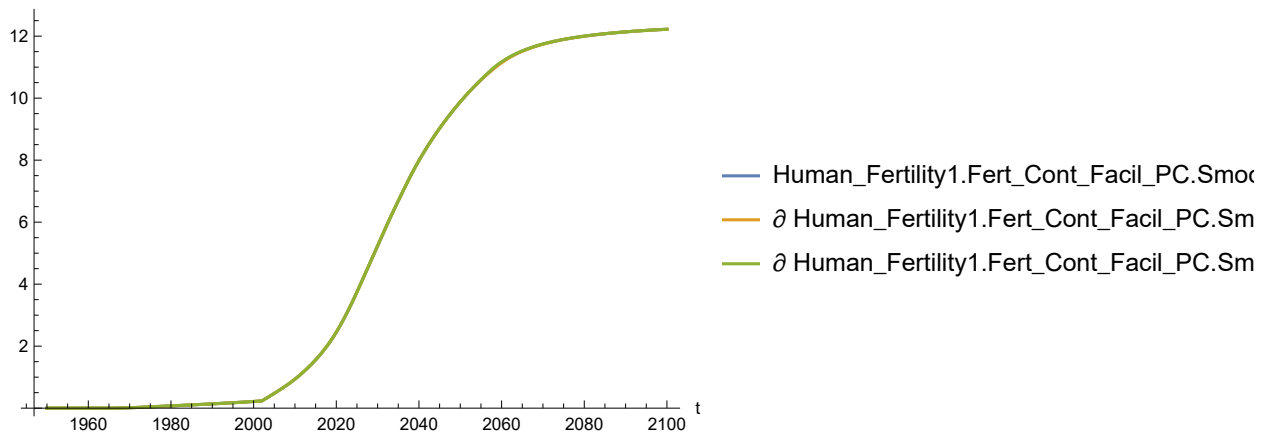
Out[115]=



In[116]:=

```
SystemModelPlot[simsensdata,
  {"Human_Fertility1.Fert_Cont_Facil_PC.Smooth1.Integrator1.y",
   "Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[5]", percentvar}]
```

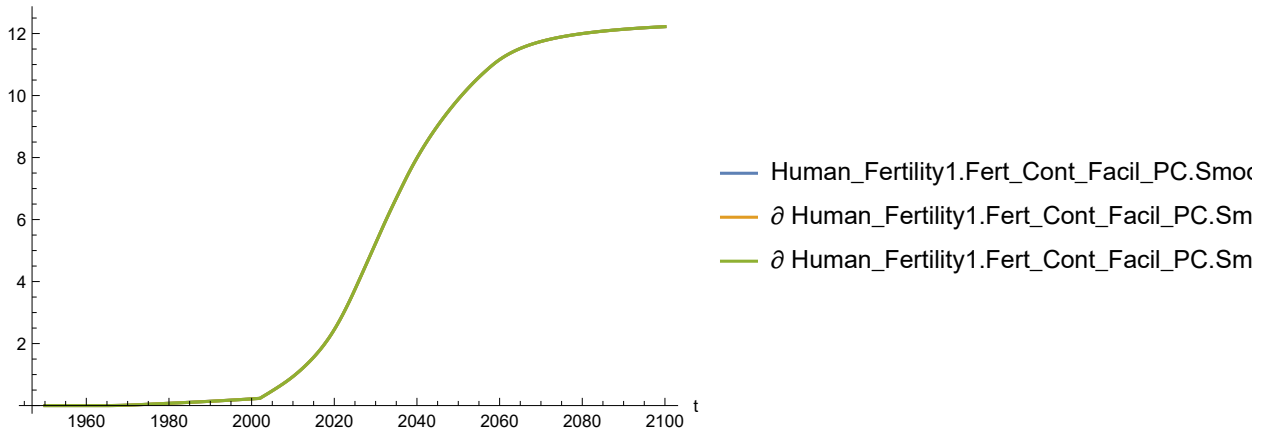
Out[116]=



In[117]:=

```
SystemModelPlot[simsensdata,
  {"Human_Fertility1.Fert_Cont_Facil_PC.Smooth1.Integrator1.y",
   "Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[6]", percentvar}]
```

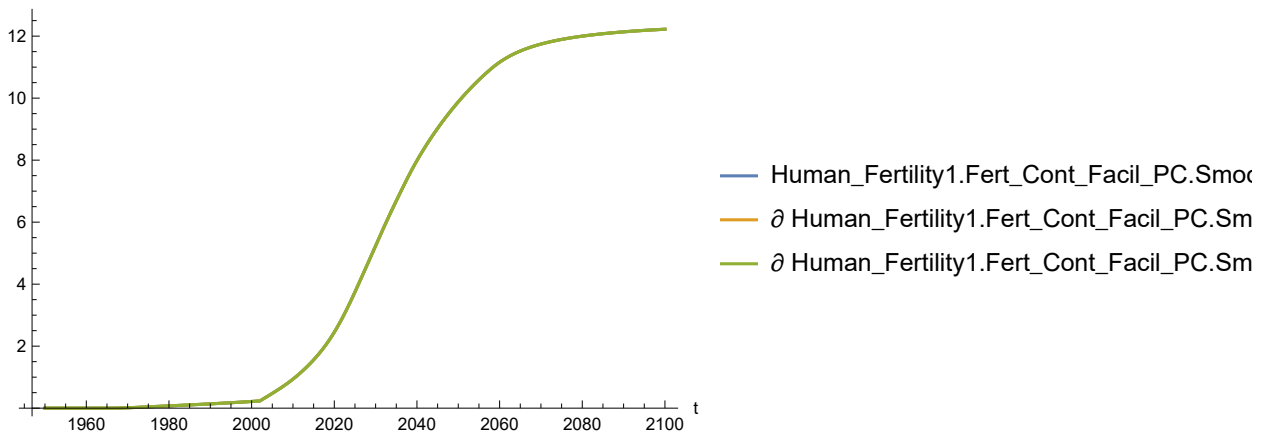
Out[117]=



In[118]:=

```
SystemModelPlot[simsensdata,
  {"Human_Fertility1.Fert_Cont_Facil_PC.Smooth1.Integrator1.y",
   "Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[7]", percentvar}]
```

Out[118]=

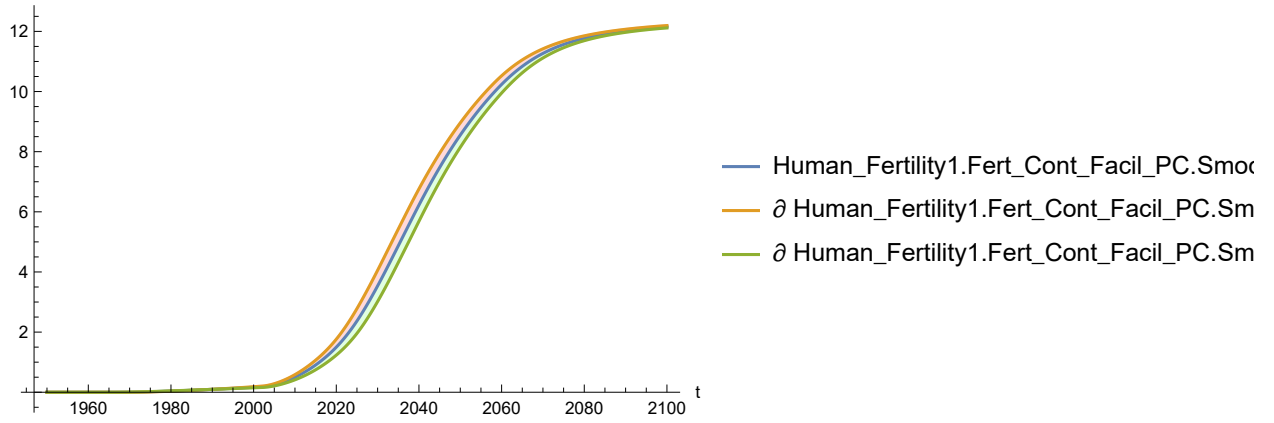


Plot the sensitivity of Human_Fertility1.Fert_Cont_Facil_PC.Smooth2.Integrator1.y to Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals.

In[119]:=

```
SystemModelPlot[simsensdata,
  {"Human_Fertility1.Fert_Cont_Facil_PC.Smooth2.Integrator1.y",
   "Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[1]", percentvar}]
```

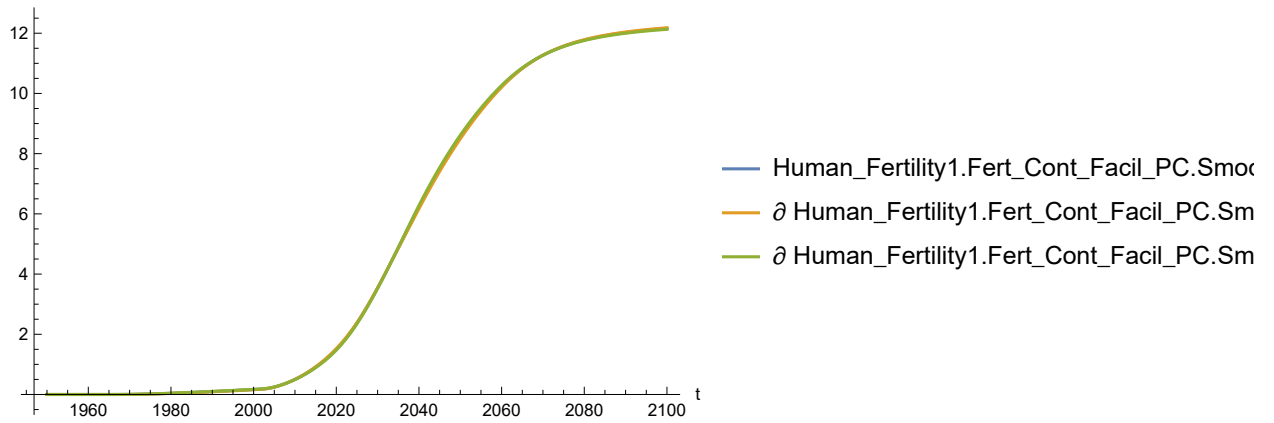
Out[119]=



In[120]:=

```
SystemModelPlot[simsensdata,
  {"Human_Fertility1.Fert_Cont_Facil_PC.Smooth2.Integrator1.y",
   "Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[2]", percentvar}]
```

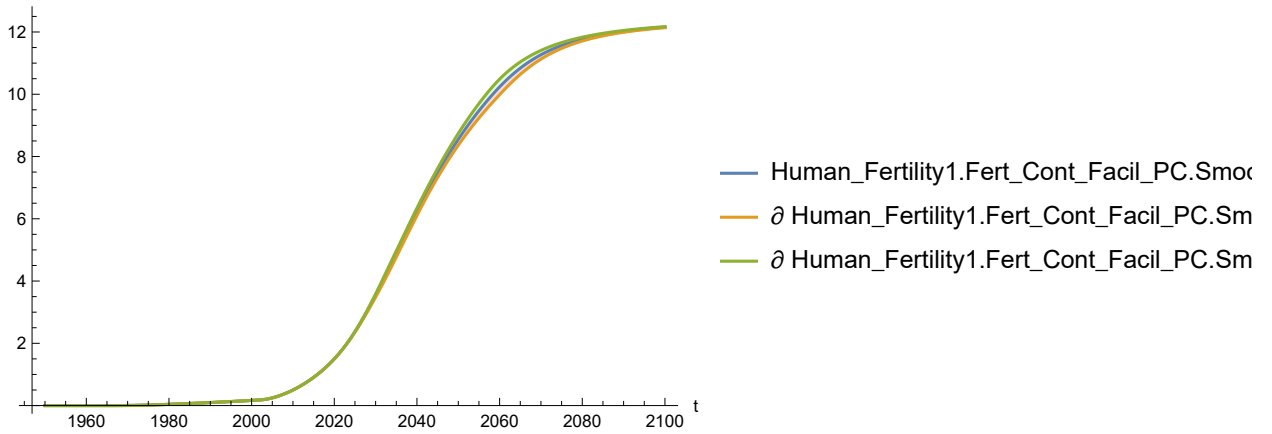
Out[120]=



In[121]:=

```
SystemModelPlot[simsensdata,
  {"Human_Fertility1.Fert_Cont_Facil_PC.Smooth2.Integrator1.y",
   "Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[3]", percentvar}]
```

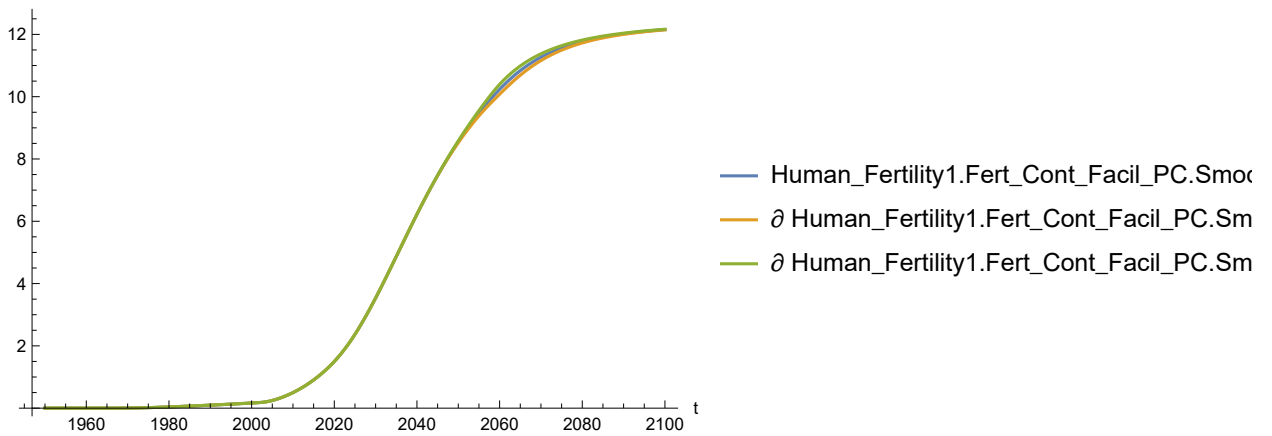
Out[121]=



In[122]:=

```
SystemModelPlot[simsensdata,
  {"Human_Fertility1.Fert_Cont_Facil_PC.Smooth2.Integrator1.y",
   "Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[4]", percentvar}]
```

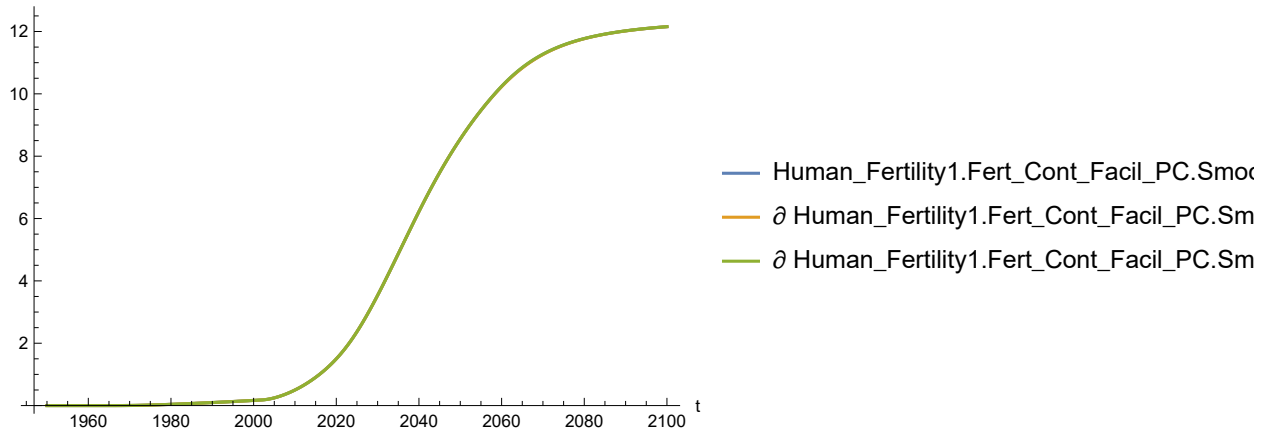
Out[122]=



In[123]:=

```
SystemModelPlot[simsensdata,
  {"Human_Fertility1.Fert_Cont_Facil_PC.Smooth2.Integrator1.y",
   "Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[5]", percentvar}]
```

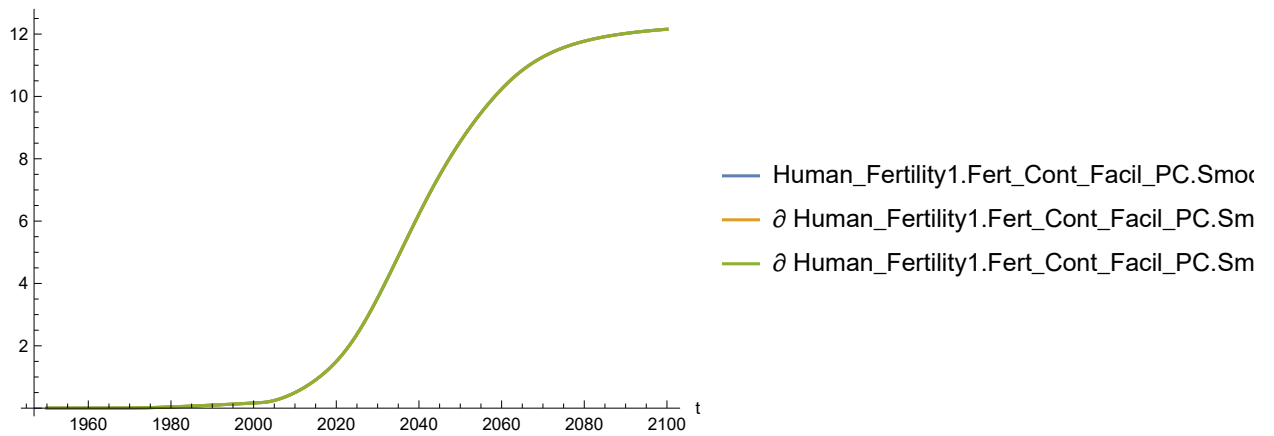
Out[123]=



In[124]:=

```
SystemModelPlot[simsensdata,
  {"Human_Fertility1.Fert_Cont_Facil_PC.Smooth2.Integrator1.y",
   "Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[6]", percentvar}]
```

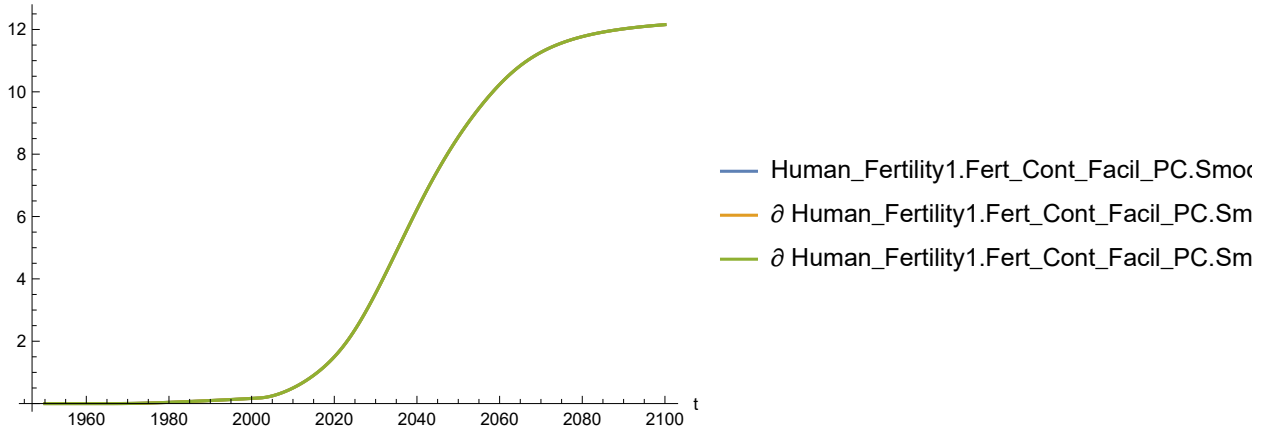
Out[124]=



In[125]:=

```
SystemModelPlot[simsensdata,
  {"Human_Fertility1.Fert_Cont_Facil_PC.Smooth2.Integrator1.y",
   "Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[7]", percentvar}]
```

Out[125]=

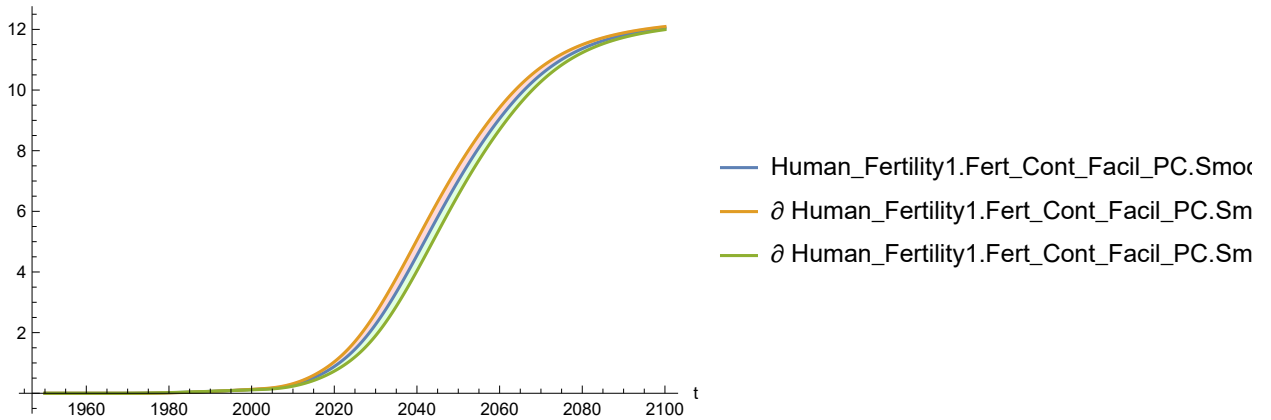


Plot the sensitivity of Human_Fertility1.Fert_Cont_Facil_PC.Smooth3.Integrator1.y to Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals.

In[126]:=

```
SystemModelPlot[simsensdata,
  {"Human_Fertility1.Fert_Cont_Facil_PC.Smooth3.Integrator1.y",
   "Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[1]", percentvar}]
```

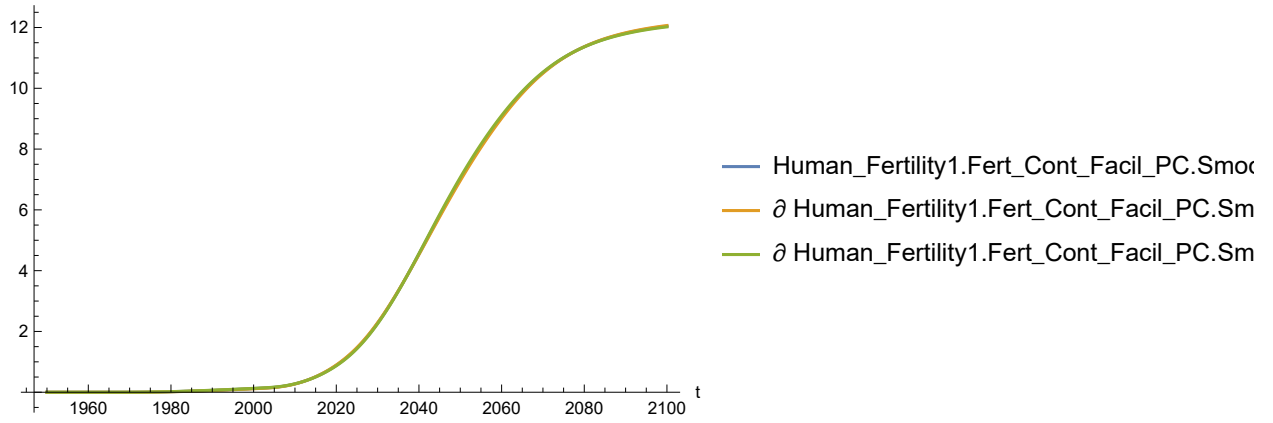
Out[126]=



In[127]:=

```
SystemModelPlot[simsensdata,
  {"Human_Fertility1.Fert_Cont_Facil_PC.Smooth3.Integrator1.y",
   "Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[2]", percentvar}]
```

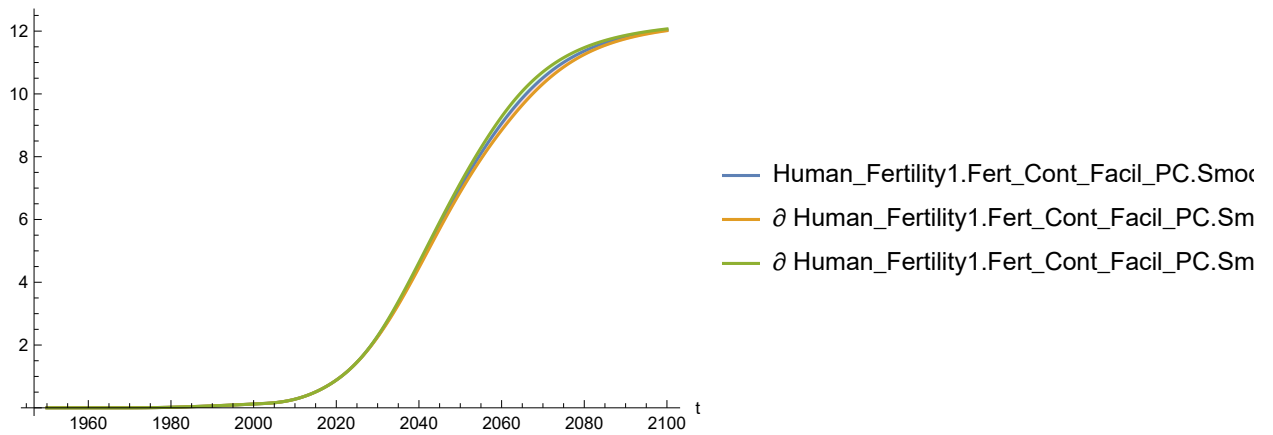
Out[127]=



In[128]:=

```
SystemModelPlot[simsensdata,
  {"Human_Fertility1.Fert_Cont_Facil_PC.Smooth3.Integrator1.y",
   "Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[3]", percentvar}]
```

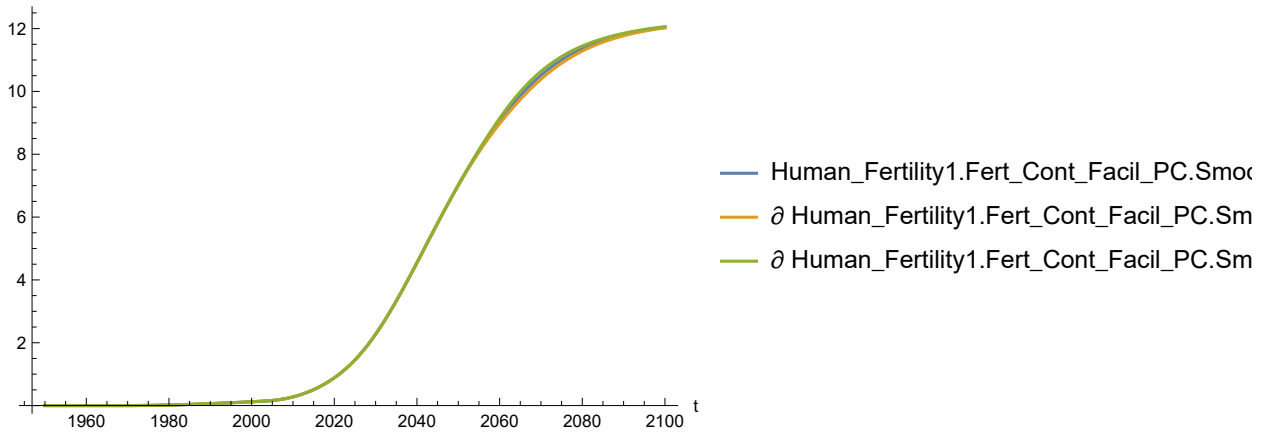
Out[128]=



In[129]:=

```
SystemModelPlot[simsensdata,
  {"Human_Fertility1.Fert_Cont_Facil_PC.Smooth3.Integrator1.y",
   "Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[4]", percentvar}]
```

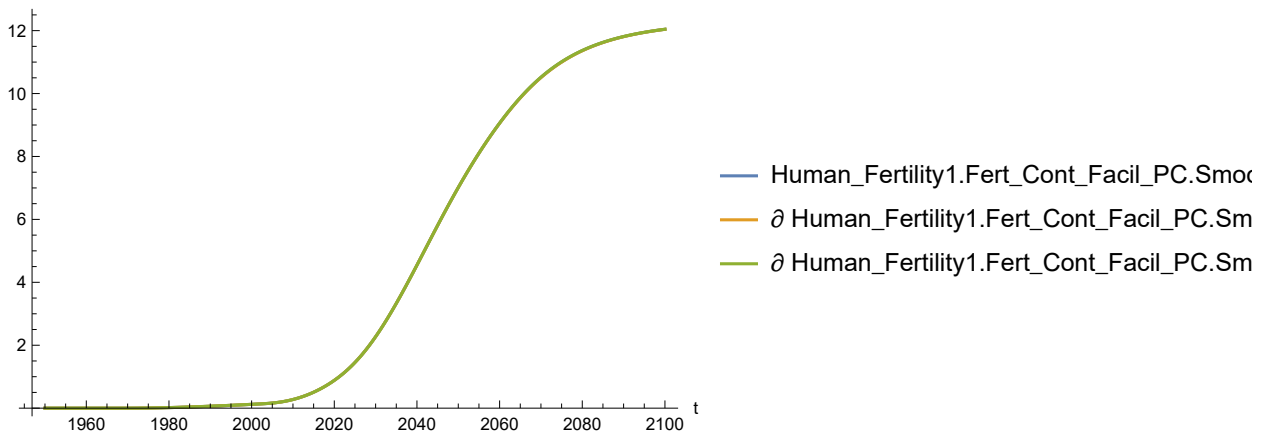
Out[129]=



In[130]:=

```
SystemModelPlot[simsensdata,
  {"Human_Fertility1.Fert_Cont_Facil_PC.Smooth3.Integrator1.y",
   "Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[5]", percentvar}]
```

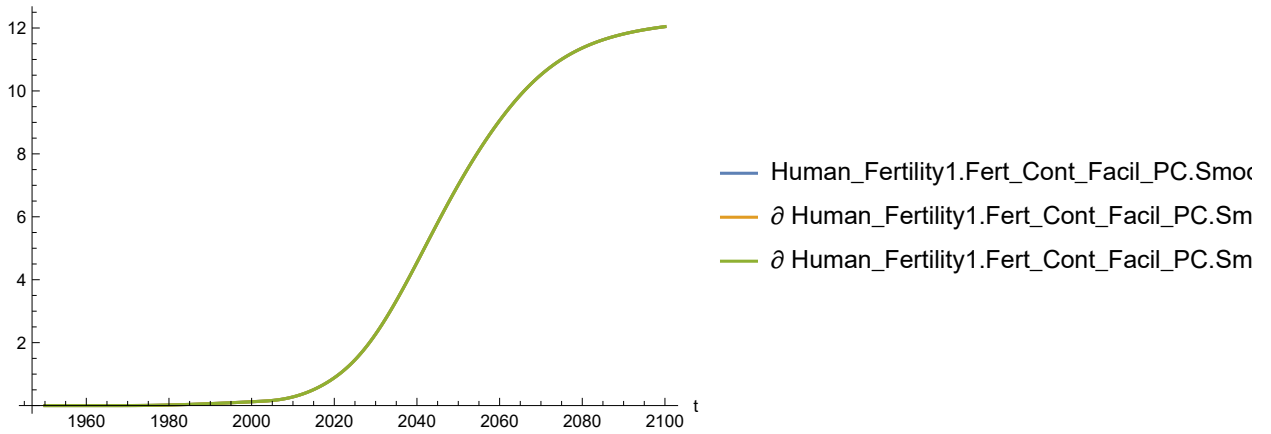
Out[130]=



In[131]:=

```
SystemModelPlot[simsensdata,
  {"Human_Fertility1.Fert_Cont_Facil_PC.Smooth3.Integrator1.y",
   "Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[6]", percentvar}]
```

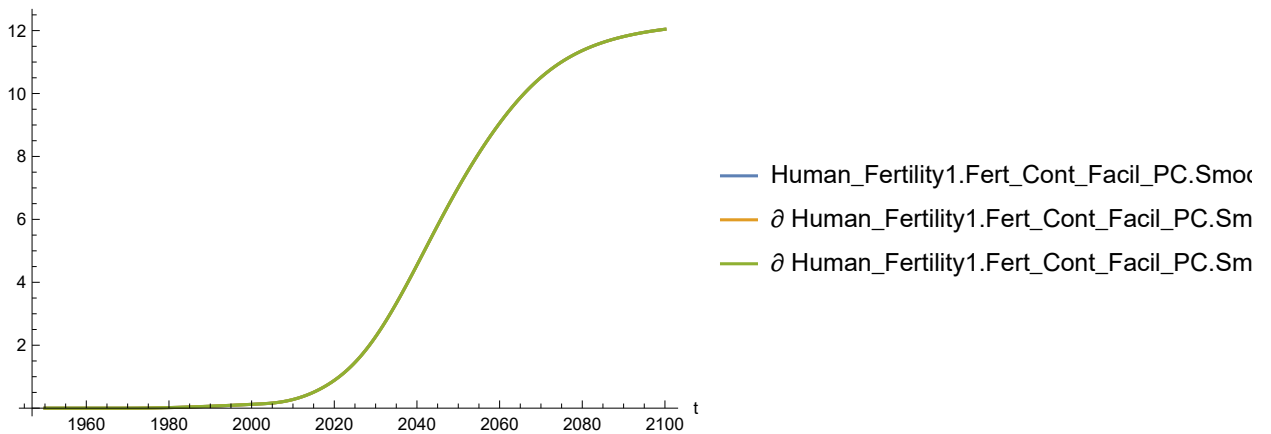
Out[131]=



In[132]:=

```
SystemModelPlot[simsensdata,
  {"Human_Fertility1.Fert_Cont_Facil_PC.Smooth3.Integrator1.y",
   "Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[7]", percentvar}]
```

Out[132]=

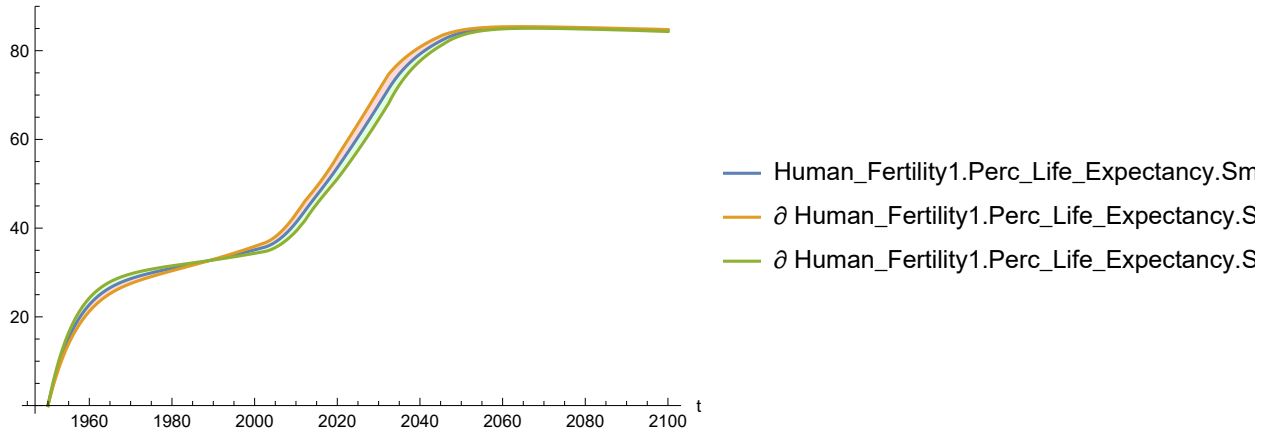


Plot the sensitivity of Human_Fertility1.Perc_Life_Expectancy.Smooth1.Integrator1.y to Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals.

In[133]:=

```
SystemModelPlot[simsensdata,
  {"Human_Fertility1.Perc_Life_Expectancy.Smooth1.Integrator1.y",
   "Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[1]", percentvar}]
```

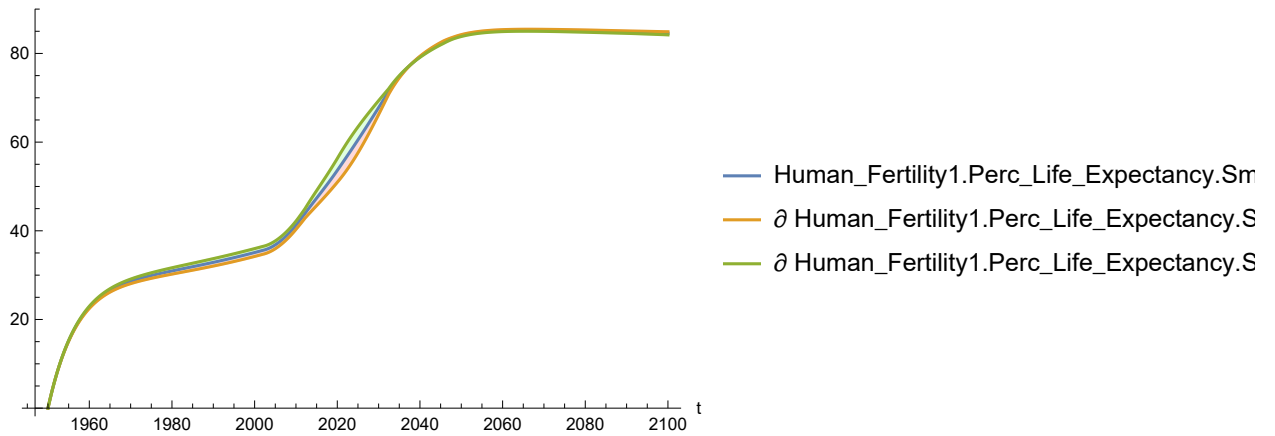
Out[133]=



In[134]:=

```
SystemModelPlot[simsensdata,
  {"Human_Fertility1.Perc_Life_Expectancy.Smooth1.Integrator1.y",
   "Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[2]", percentvar}]
```

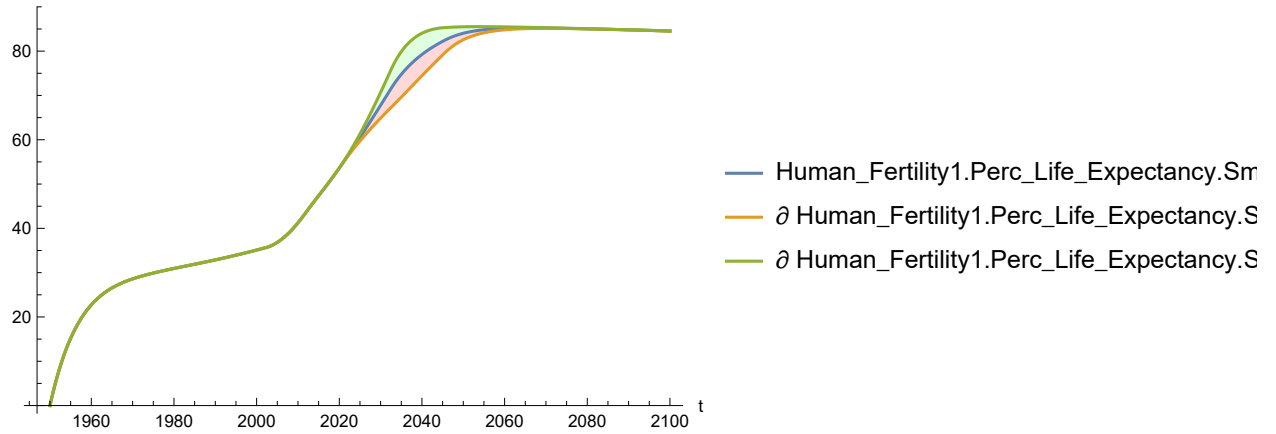
Out[134]=



In[135]:=

```
SystemModelPlot[simsensdata,
  {"Human_Fertility1.Perc_Life_Expectancy.Smooth1.Integrator1.y",
   "Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[3]", percentvar}]
```

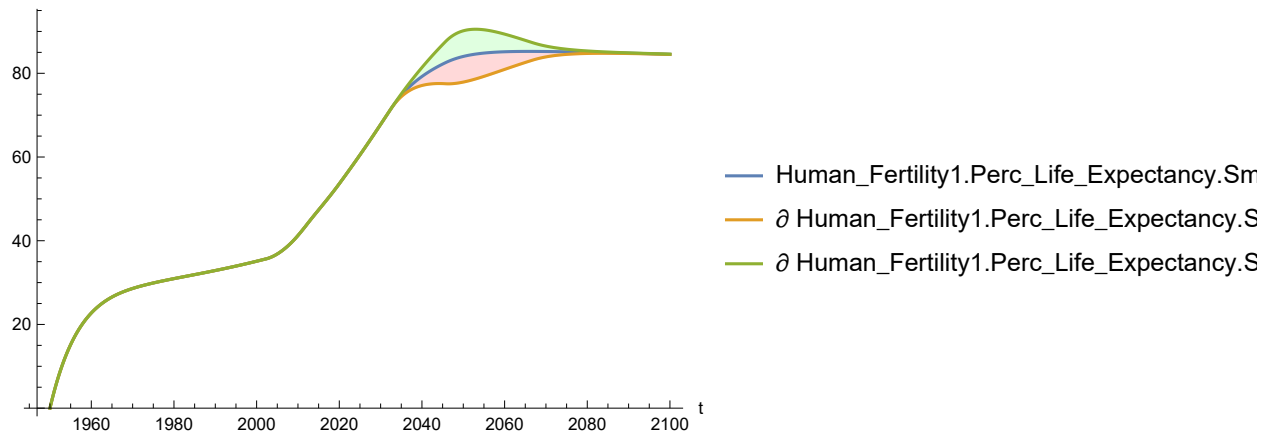
Out[135]=



In[136]:=

```
SystemModelPlot[simsensdata,
  {"Human_Fertility1.Perc_Life_Expectancy.Smooth1.Integrator1.y",
   "Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[4]", percentvar}]
```

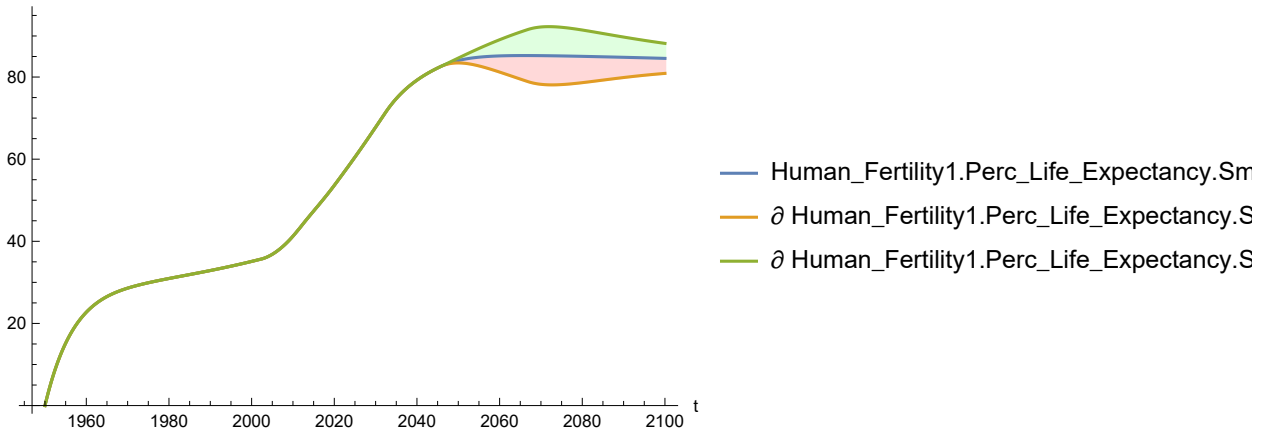
Out[136]=



In[137]:=

```
SystemModelPlot[simsensdata,
  {"Human_Fertility1.Perc_Life_Expectancy.Smooth1.Integrator1.y",
   "Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[5]", percentvar}]
```

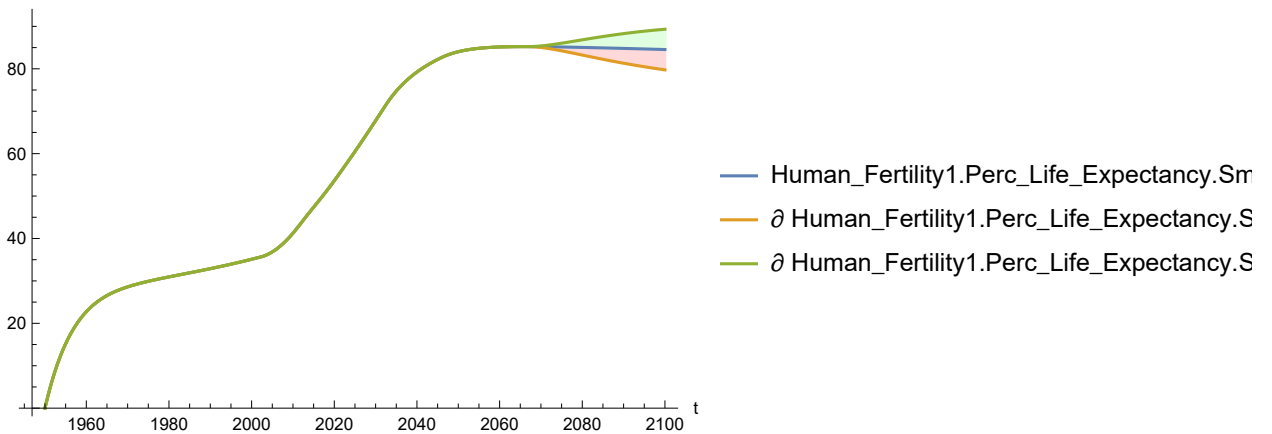
Out[137]=



In[138]:=

```
SystemModelPlot[simsensdata,
  {"Human_Fertility1.Perc_Life_Expectancy.Smooth1.Integrator1.y",
   "Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[6]", percentvar}]
```

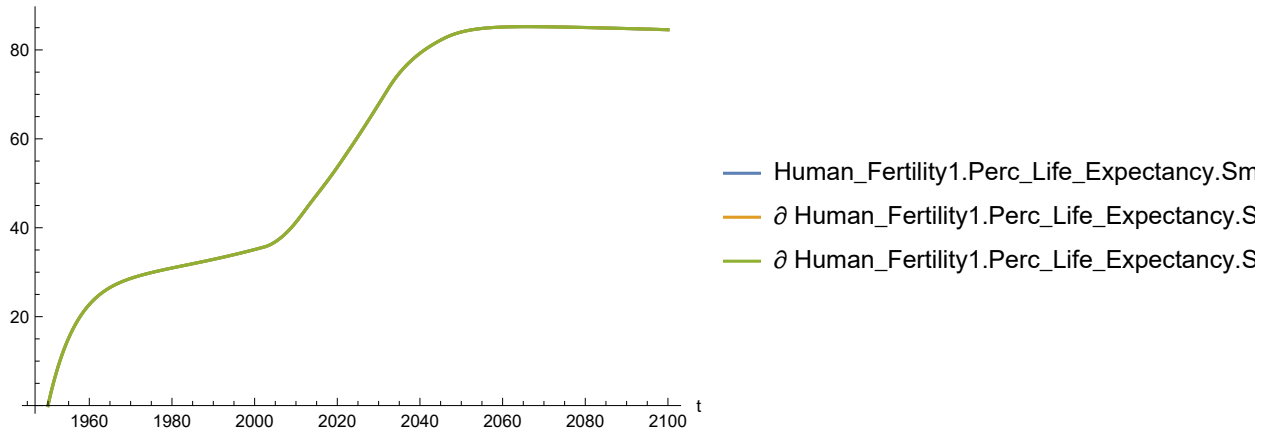
Out[138]=



In[139]:=

```
SystemModelPlot[simsensdata,
  {"Human_Fertility1.Perc_Life_Expectancy.Smooth1.Integrator1.y",
   "Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[7]", percentvar}]
```

Out[139]=

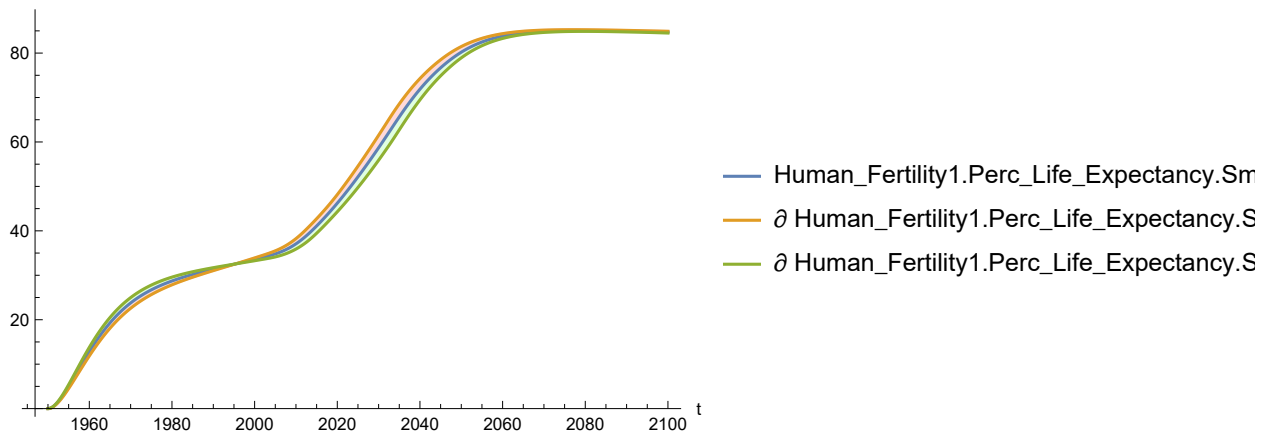


Plot the sensitivity of Human_Fertility1.Perc_Life_Expectancy.Smooth2.Integrator1.y to Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals.

In[140]:=

```
SystemModelPlot[simsensdata,
  {"Human_Fertility1.Perc_Life_Expectancy.Smooth2.Integrator1.y",
   "Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[1]", percentvar}]
```

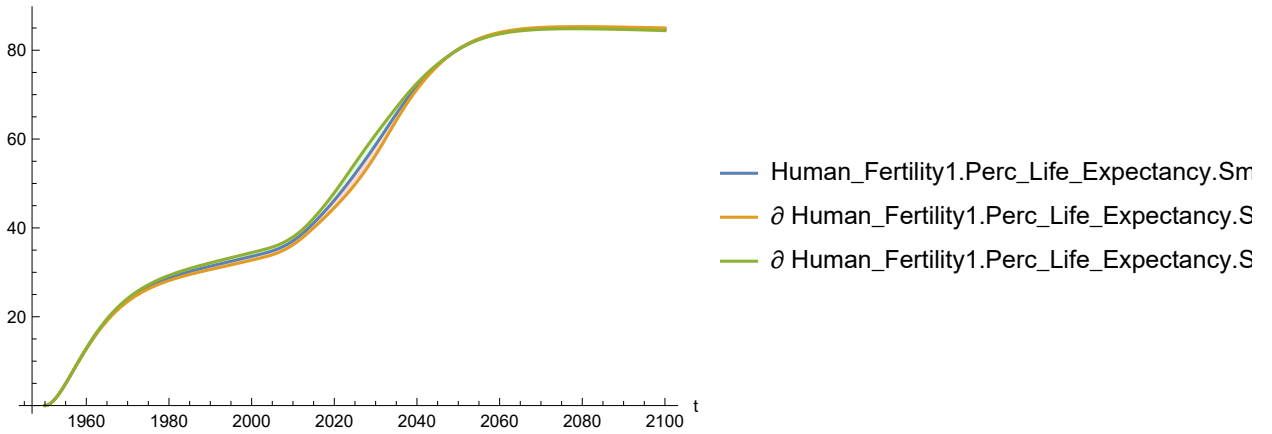
Out[140]=



In[141]:=

```
SystemModelPlot[simsensdata,
  {"Human_Fertility1.Perc_Life_Expectancy.Smooth2.Integrator1.y",
   "Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[2]", percentvar}]
```

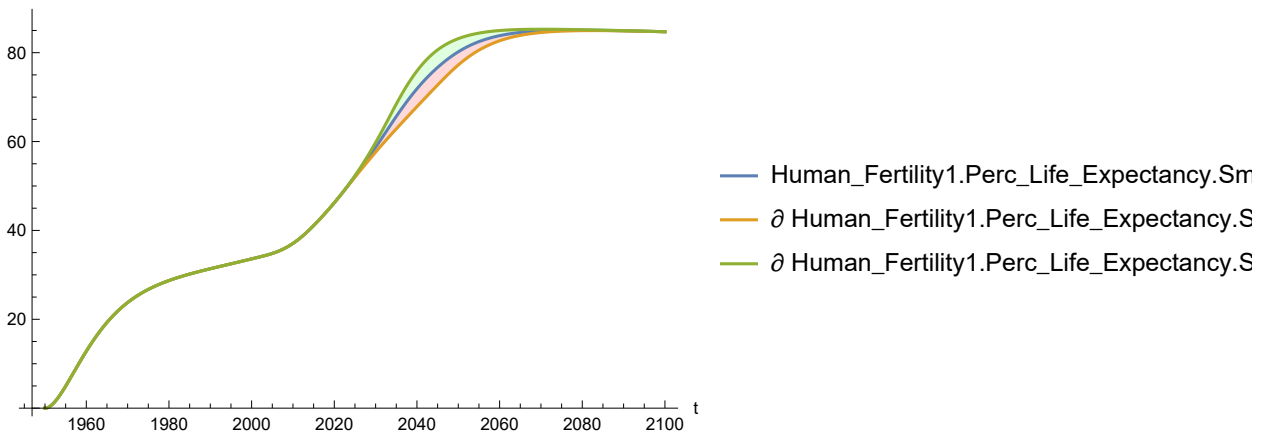
Out[141]=



In[142]:=

```
SystemModelPlot[simsensdata,
  {"Human_Fertility1.Perc_Life_Expectancy.Smooth2.Integrator1.y",
   "Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[3]", percentvar}]
```

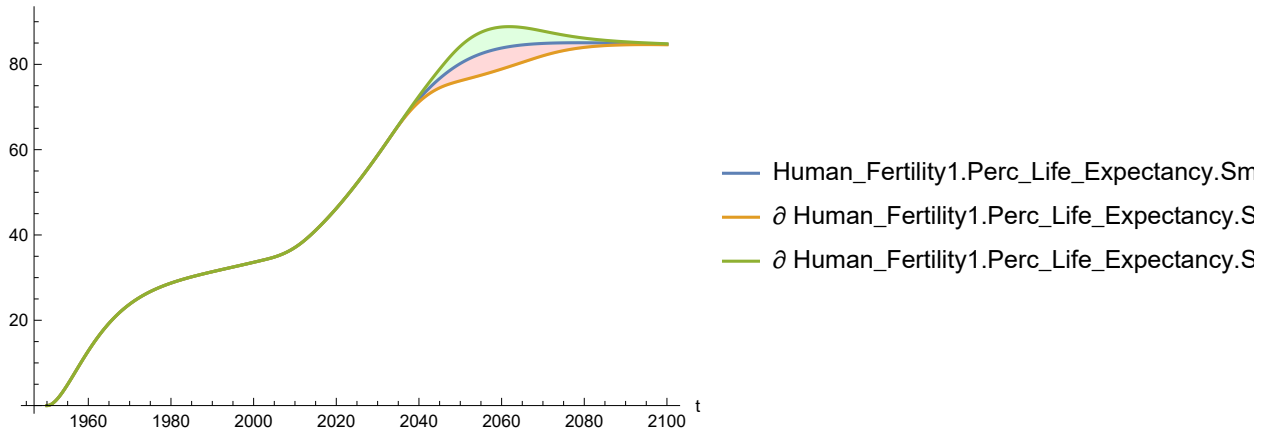
Out[142]=



In[143]:=

```
SystemModelPlot[simsensdata,
  {"Human_Fertility1.Perc_Life_Expectancy.Smooth2.Integrator1.y",
   "Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[4]", percentvar}]
```

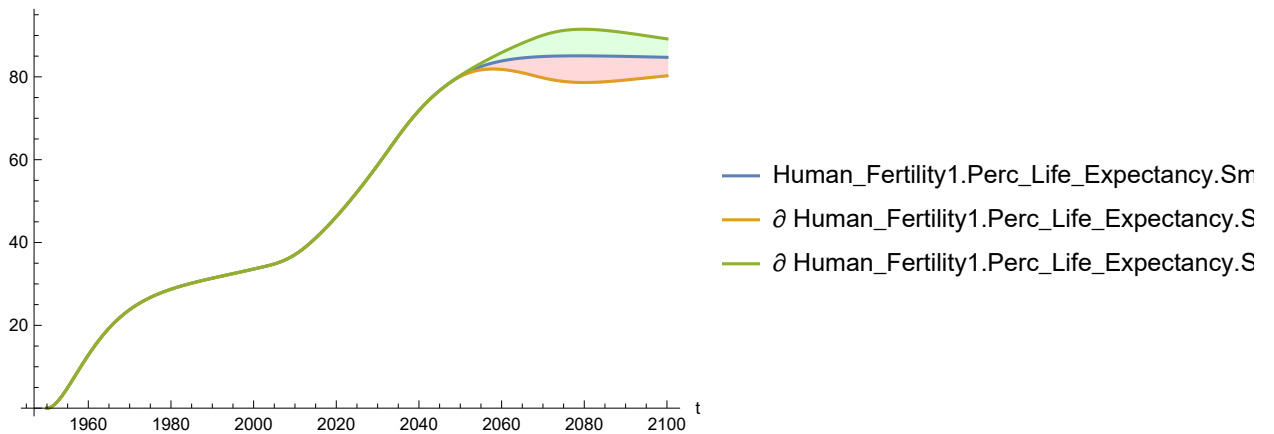
Out[143]=



In[144]:=

```
SystemModelPlot[simsensdata,
  {"Human_Fertility1.Perc_Life_Expectancy.Smooth2.Integrator1.y",
   "Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[5]", percentvar}]
```

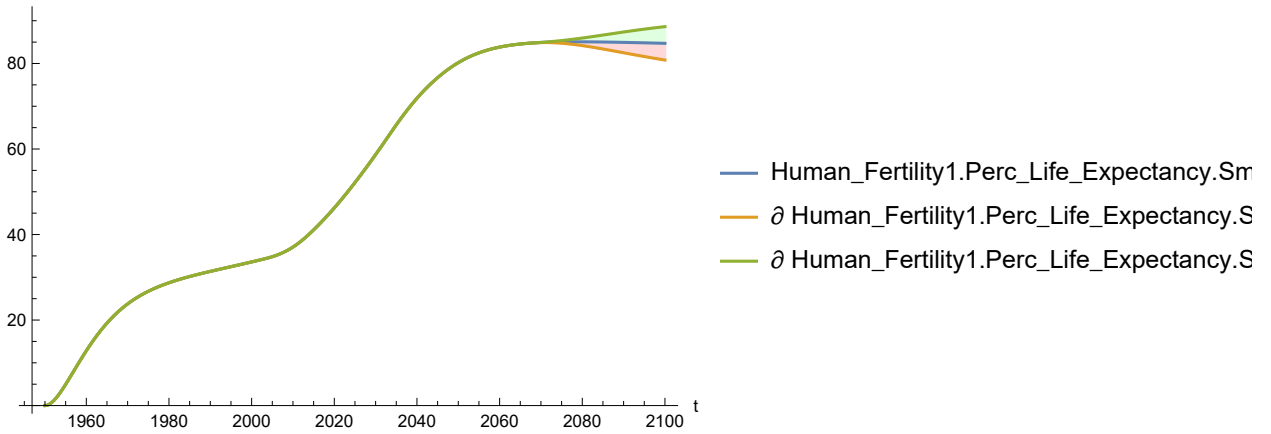
Out[144]=



In[145]:=

```
SystemModelPlot[simsensdata,
  {"Human_Fertility1.Perc_Life_Expectancy.Smooth2.Integrator1.y",
   "Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[6]", percentvar}]
```

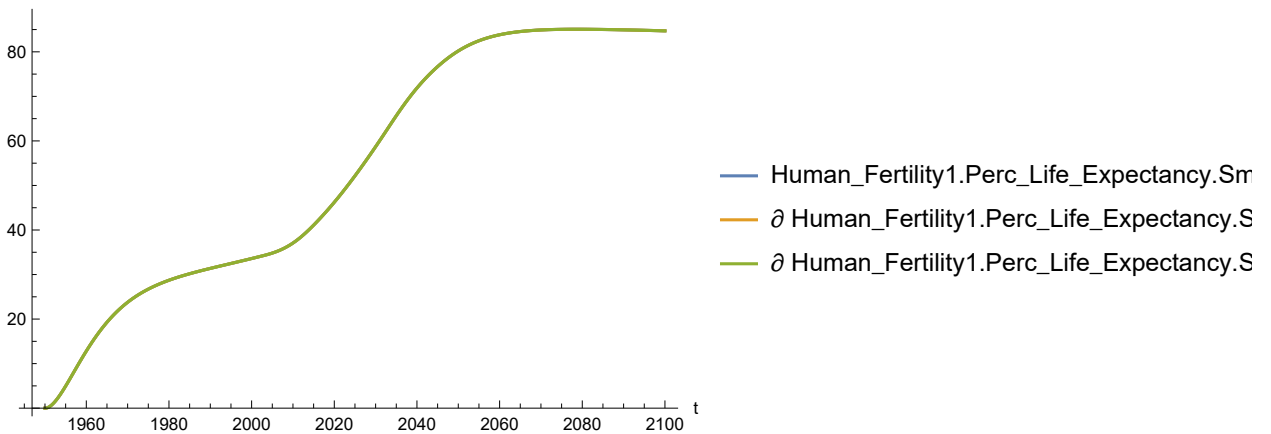
Out[145]=



In[146]:=

```
SystemModelPlot[simsensdata,
  {"Human_Fertility1.Perc_Life_Expectancy.Smooth2.Integrator1.y",
   "Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[7]", percentvar}]
```

Out[146]=

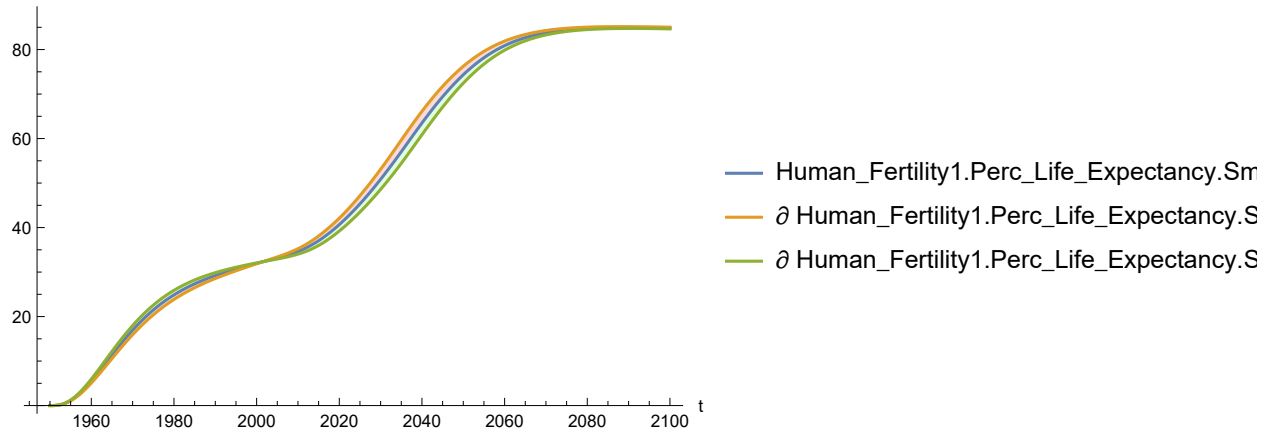


Plot the sensitivity of Human_Fertility1.Perc_Life_Expectancy.Smooth3.Integrator1.y to Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals.

In[147]:=

```
SystemModelPlot[simsensdata,
  {"Human_Fertility1.Perc_Life_Expectancy.Smooth3.Integrator1.y",
   "Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[1]", percentvar}]
```

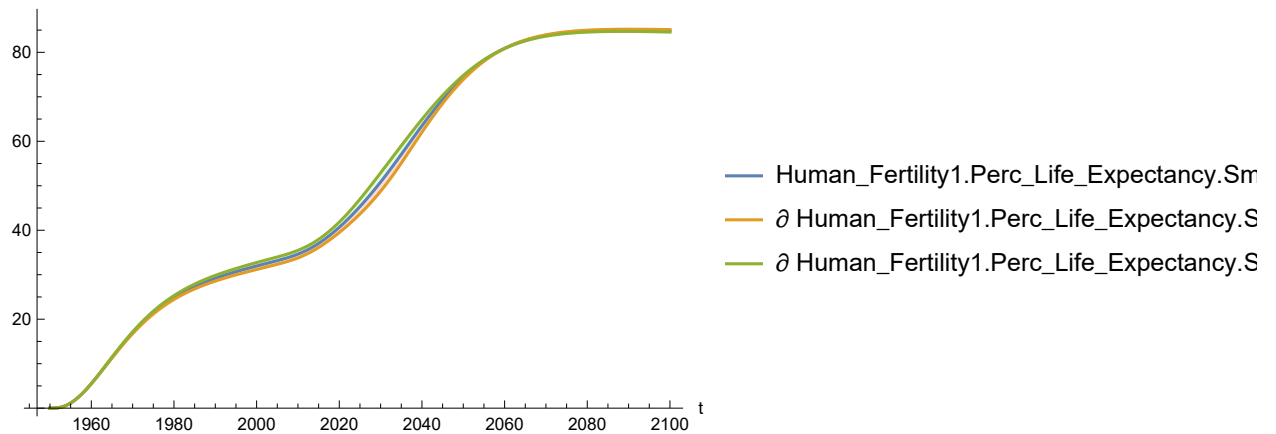
Out[147]=



In[148]:=

```
SystemModelPlot[simsensdata,
  {"Human_Fertility1.Perc_Life_Expectancy.Smooth3.Integrator1.y",
   "Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[2]", percentvar}]
```

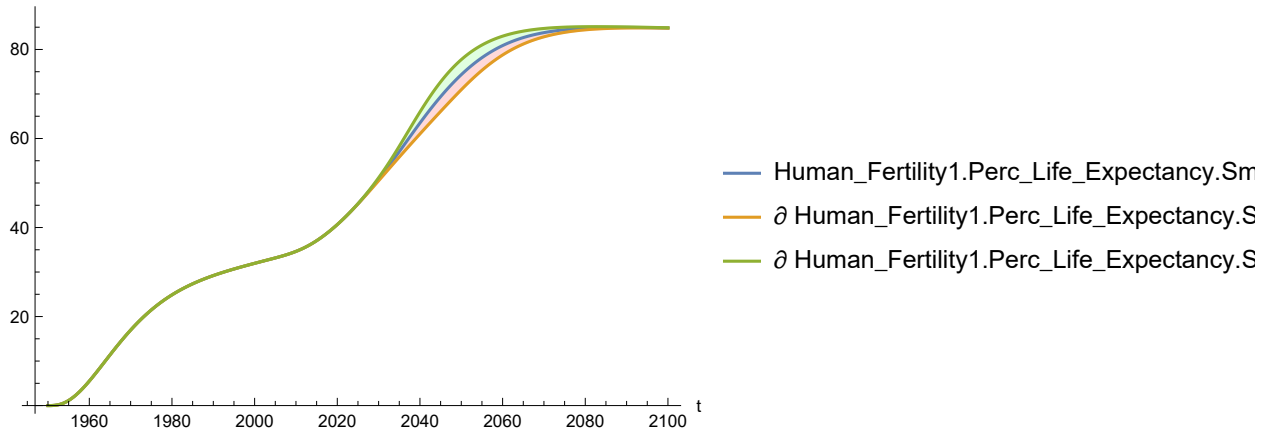
Out[148]=



In[149]:=

```
SystemModelPlot[simsensdata,
  {"Human_Fertility1.Perc_Life_Expectancy.Smooth3.Integrator1.y",
   "Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[3]", percentvar}]
```

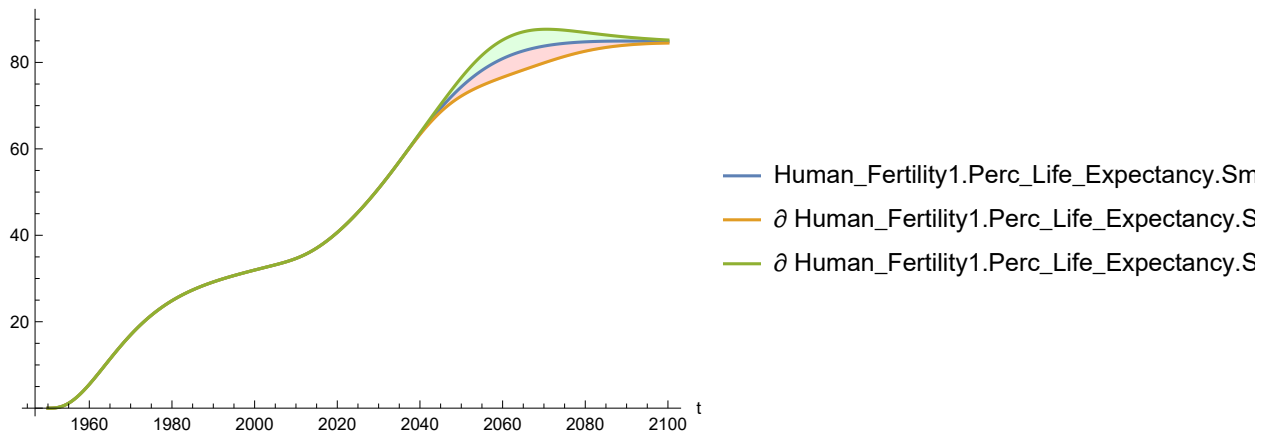
Out[149]=



In[150]:=

```
SystemModelPlot[simsensdata,
  {"Human_Fertility1.Perc_Life_Expectancy.Smooth3.Integrator1.y",
   "Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[4]", percentvar}]
```

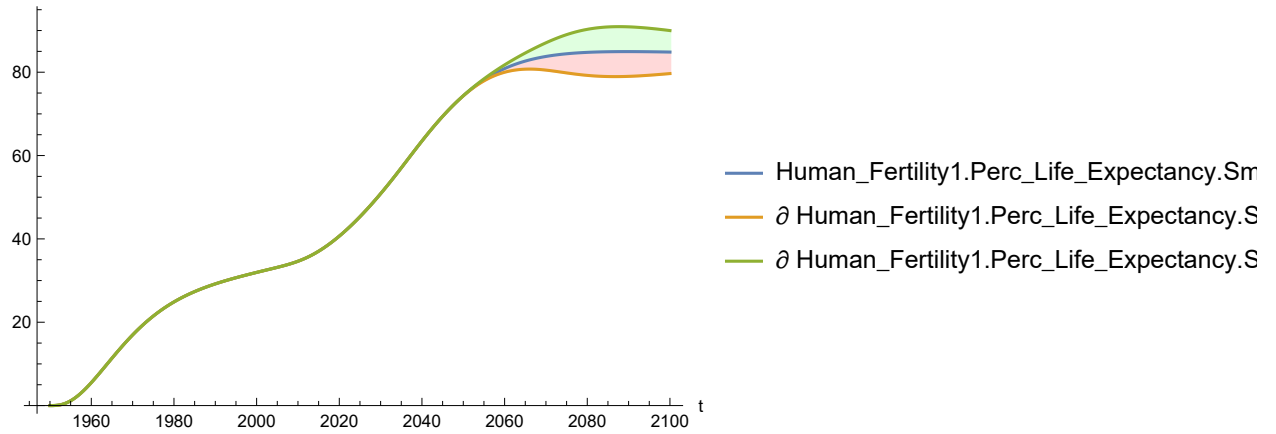
Out[150]=



In[151]:=

```
SystemModelPlot[simsensdata,
  {"Human_Fertility1.Perc_Life_Expectancy.Smooth3.Integrator1.y",
   "Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[5]", percentvar}]
```

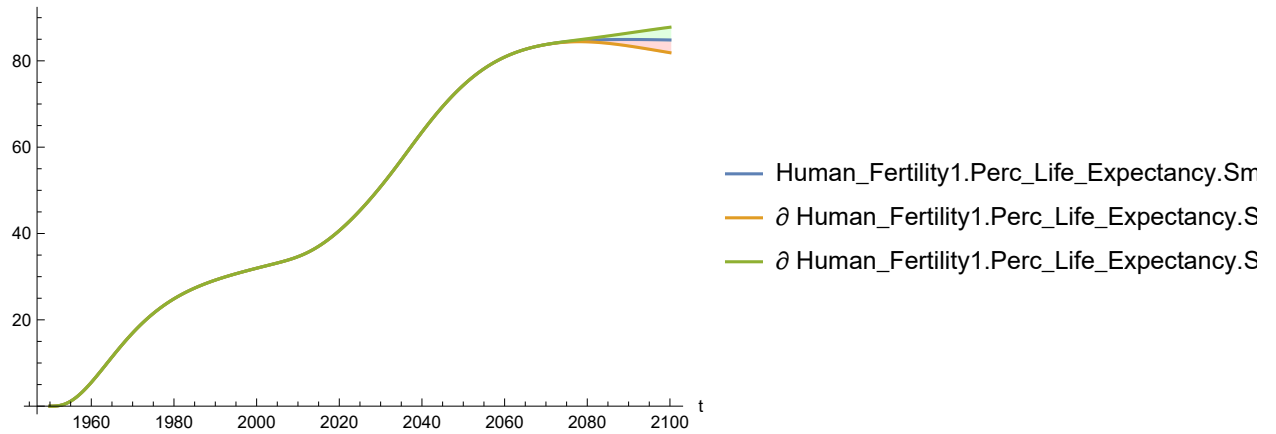
Out[151]=



In[152]:=

```
SystemModelPlot[simsensdata,
  {"Human_Fertility1.Perc_Life_Expectancy.Smooth3.Integrator1.y",
   "Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[6]", percentvar}]
```

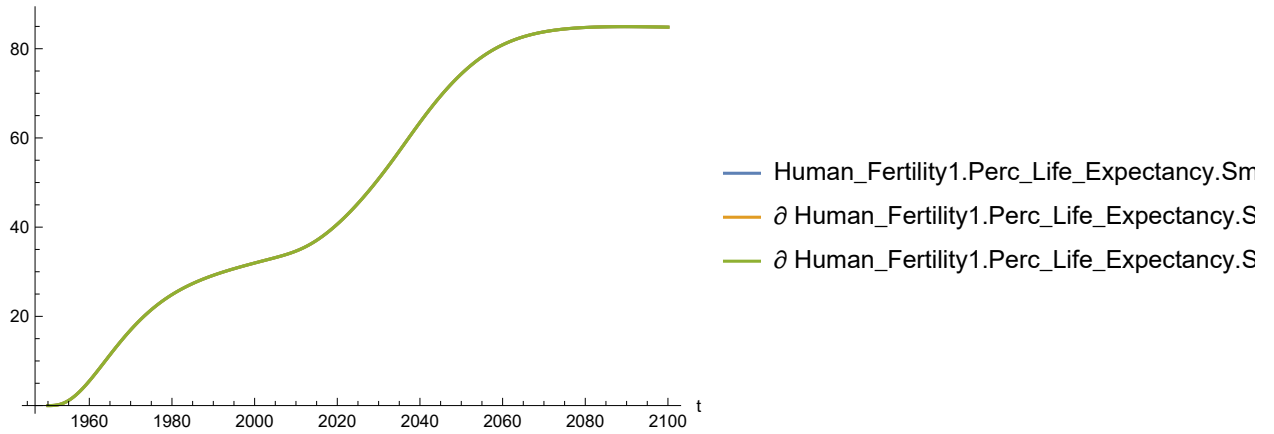
Out[152]=



In[153]:=

```
SystemModelPlot[simsensdata,
  {"Human_Fertility1.Perc_Life_Expectancy.Smooth3.Integrator1.y",
   "Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[7]", percentvar}]
```

Out[153]:=

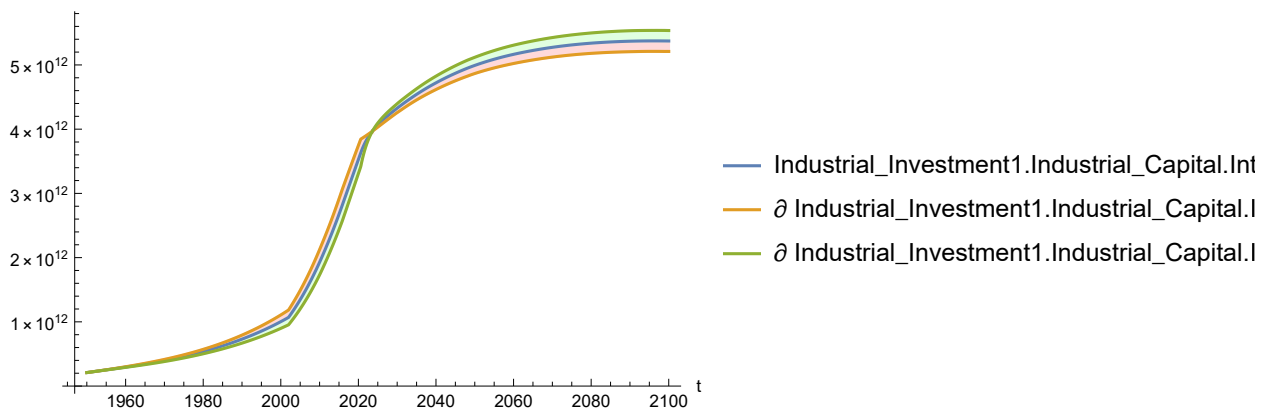


Plot the sensitivity of Industrial_Investment1.Industrial_Capital.Integrator1.y to Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals.

In[154]:=

```
SystemModelPlot[simsensdata, {"Industrial_Investment1.Industrial_Capital.Integrator1.y",
  "Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[1]", percentvar}]
```

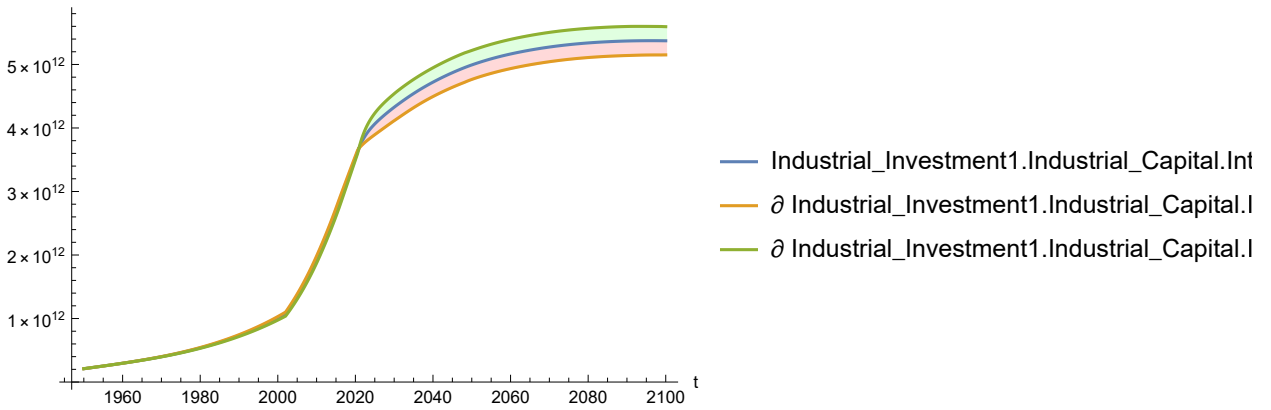
Out[154]:=



In[155]:=

```
SystemModelPlot[simsensdata, {"Industrial_Investment1.Industrial_Capital.Integrator1.y",
"Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[2]", percentvar}]
```

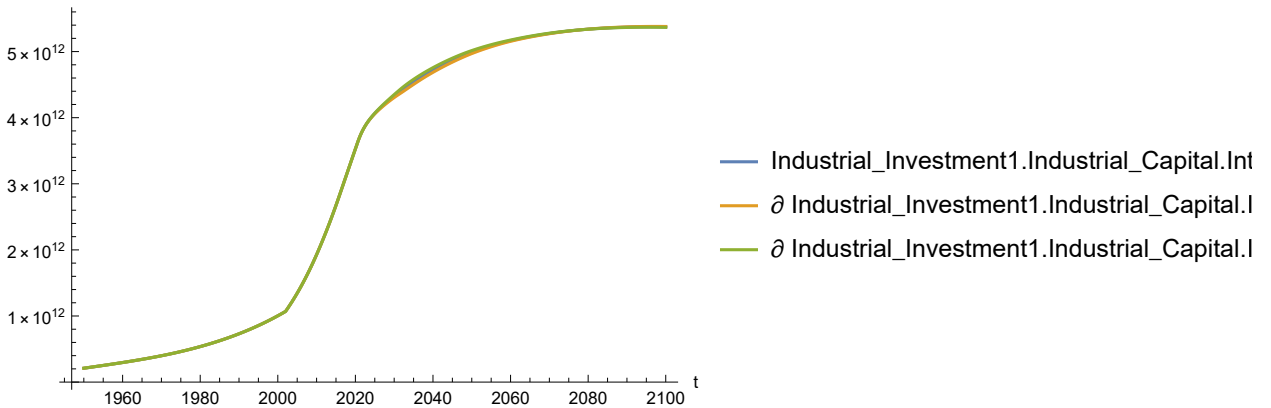
Out[155]:=



In[156]:=

```
SystemModelPlot[simsensdata, {"Industrial_Investment1.Industrial_Capital.Integrator1.y",
"Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[3]", percentvar}]
```

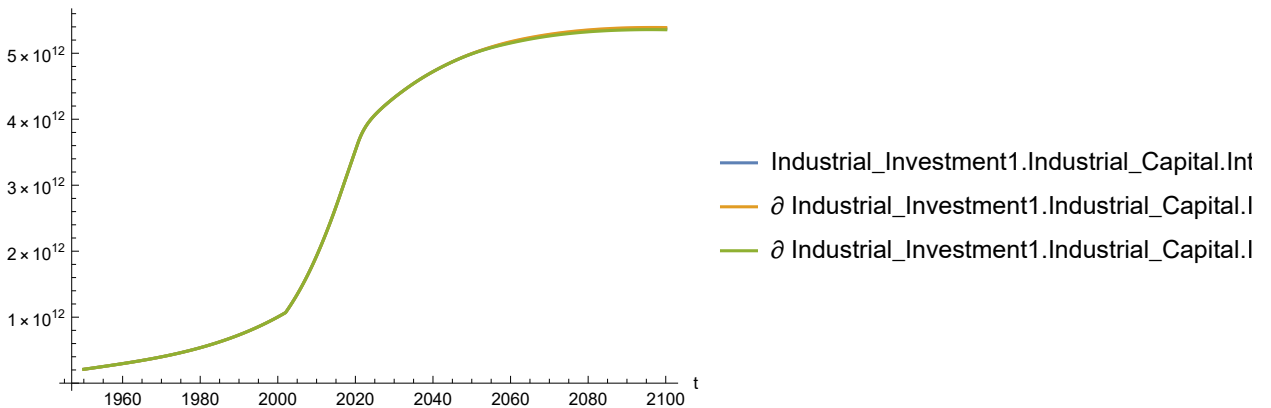
Out[156]:=



In[157]:=

```
SystemModelPlot[simsensdata, {"Industrial_Investment1.Industrial_Capital.Integrator1.y",
"Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[4]", percentvar}]
```

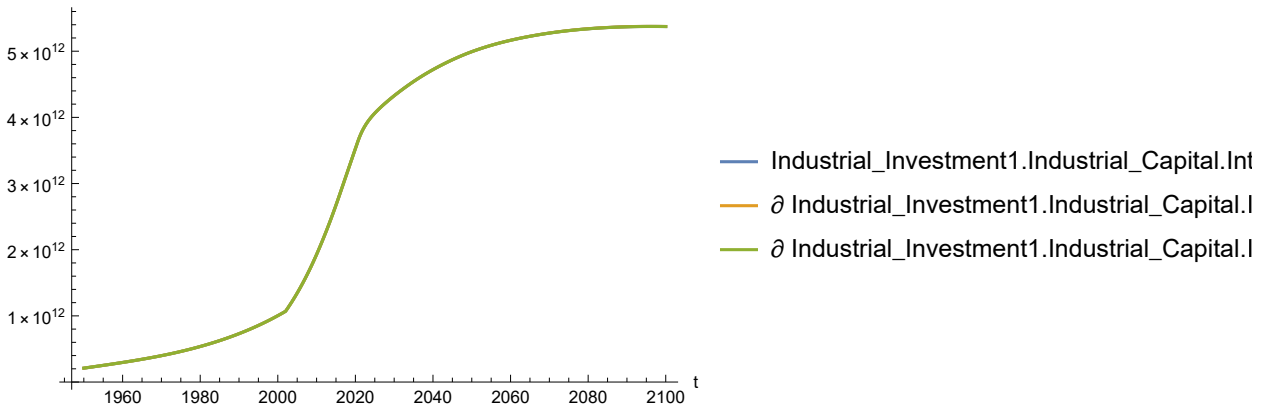
Out[157]:=



In[158]:=

```
SystemModelPlot[simsensdata, {"Industrial_Investment1.Industrial_Capital.Integrator1.y",
"Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[5]", percentvar}]
```

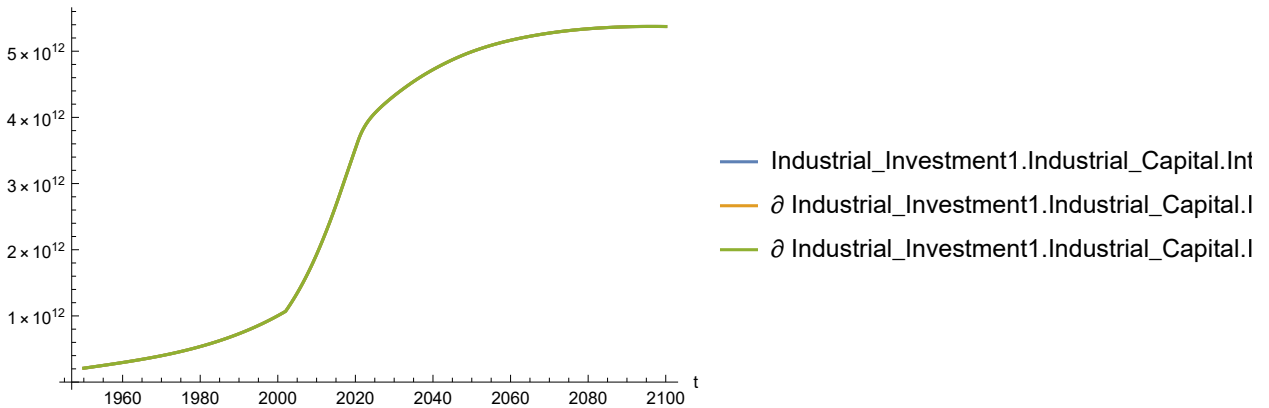
Out[158]:=



In[159]:=

```
SystemModelPlot[simsensdata, {"Industrial_Investment1.Industrial_Capital.Integrator1.y",
"Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[6]", percentvar}]
```

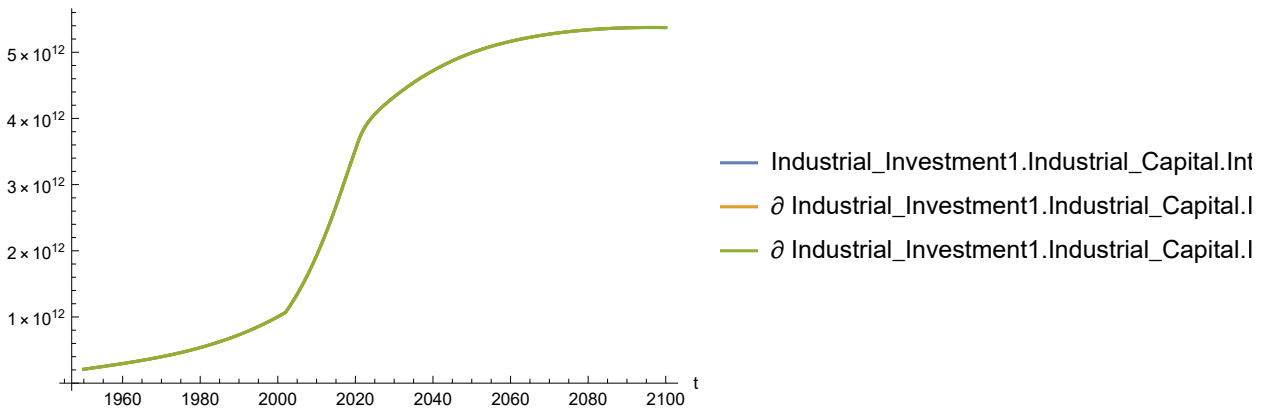
Out[159]:=



In[160]:=

```
SystemModelPlot[simsensdata, {"Industrial_Investment1.Industrial_Capital.Integrator1.y",
"Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[7]", percentvar}]
```

Out[160]:=

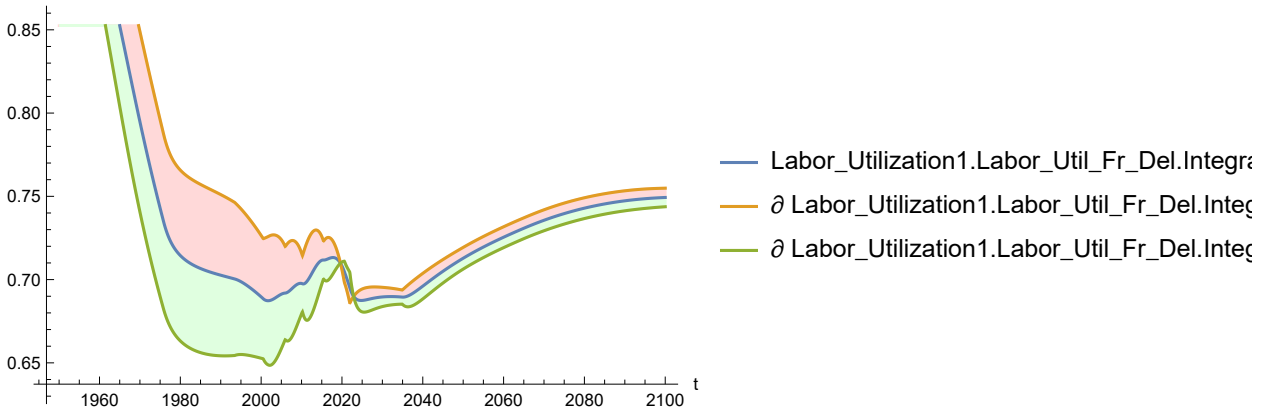


Plot the sensitivity of Labor_Utilization1.Labor_Util_Fr_Del.Integrator1.y to Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals.

In[161]:=

```
SystemModelPlot[simsensdata, {"Labor_Utilization1.Labor_Util_Fr_Del.Integrator1.y",
    "Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[1]", percentvar}]
```

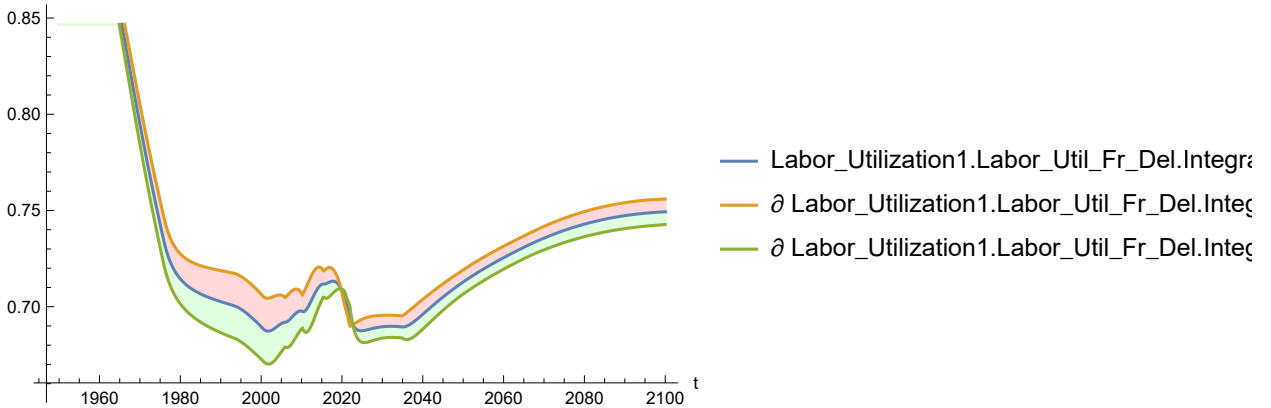
Out[161]=



In[162]:=

```
SystemModelPlot[simsensdata, {"Labor_Utilization1.Labor_Util_Fr_Del.Integrator1.y",
    "Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[2]", percentvar}]
```

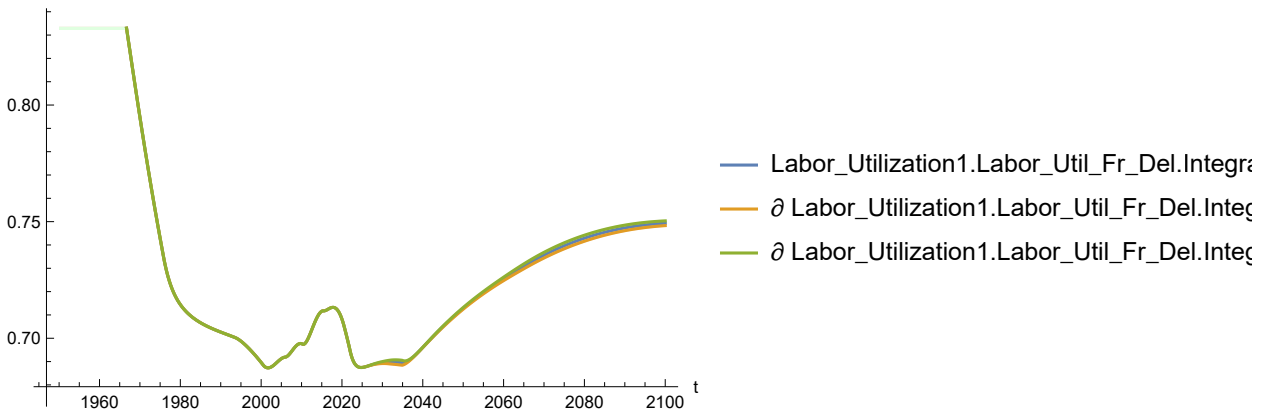
Out[162]=



In[163]:=

```
SystemModelPlot[simsensdata, {"Labor_Utilization1.Labor_Util_Fr_Del.Integrator1.y",
"Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[3]", percentvar}]
```

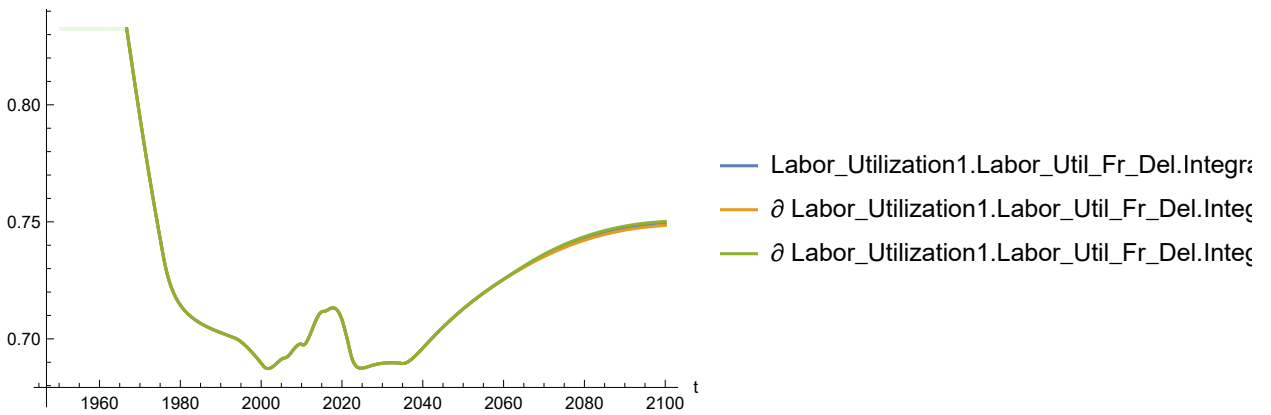
Out[163]=



In[164]:=

```
SystemModelPlot[simsensdata, {"Labor_Utilization1.Labor_Util_Fr_Del.Integrator1.y",
"Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[4]", percentvar}]
```

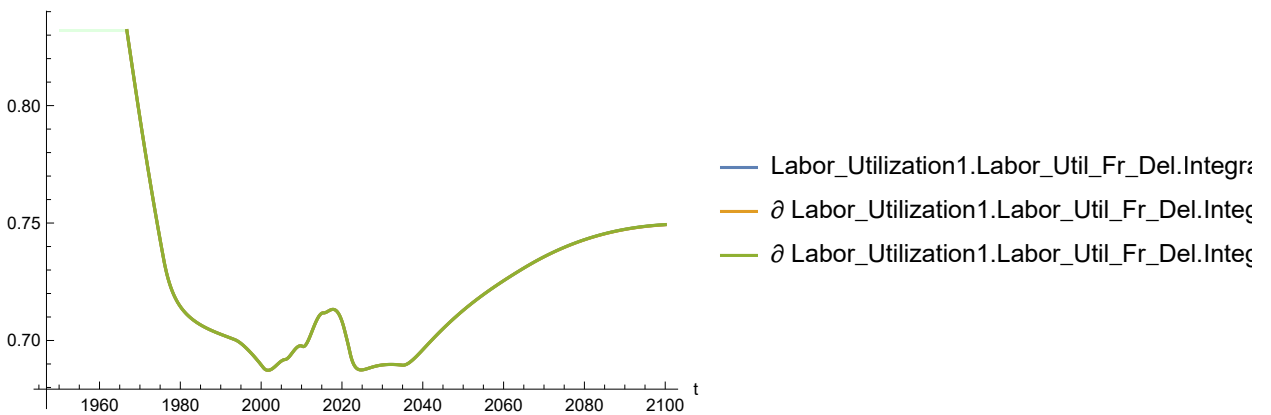
Out[164]=



In[165]:=

```
SystemModelPlot[simsensdata, {"Labor_Utilization1.Labor_Util_Fr_Del.Integrator1.y",
"Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[5]", percentvar}]
```

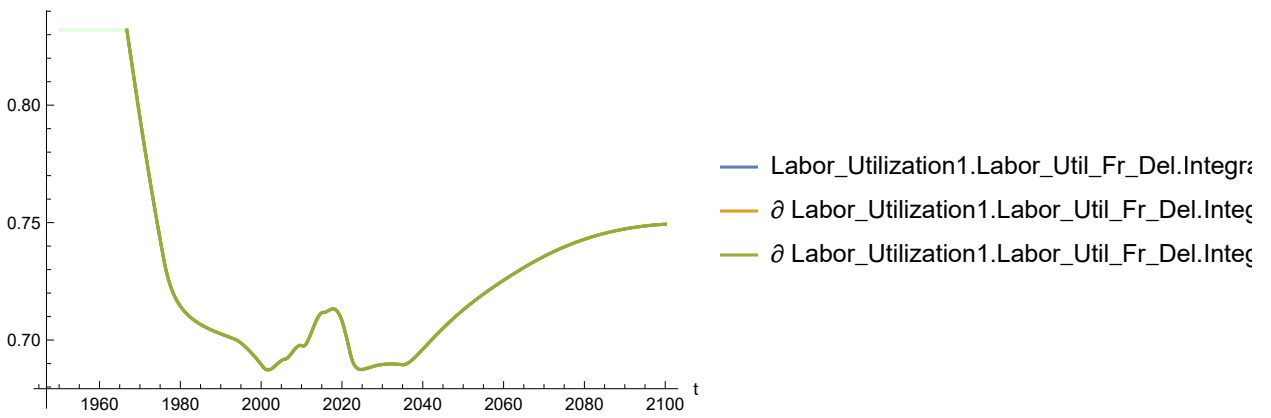
Out[165]=



In[166]:=

```
SystemModelPlot[simsensdata, {"Labor_Utilization1.Labor_Util_Fr_Del.Integrator1.y",
"Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[6]", percentvar}]
```

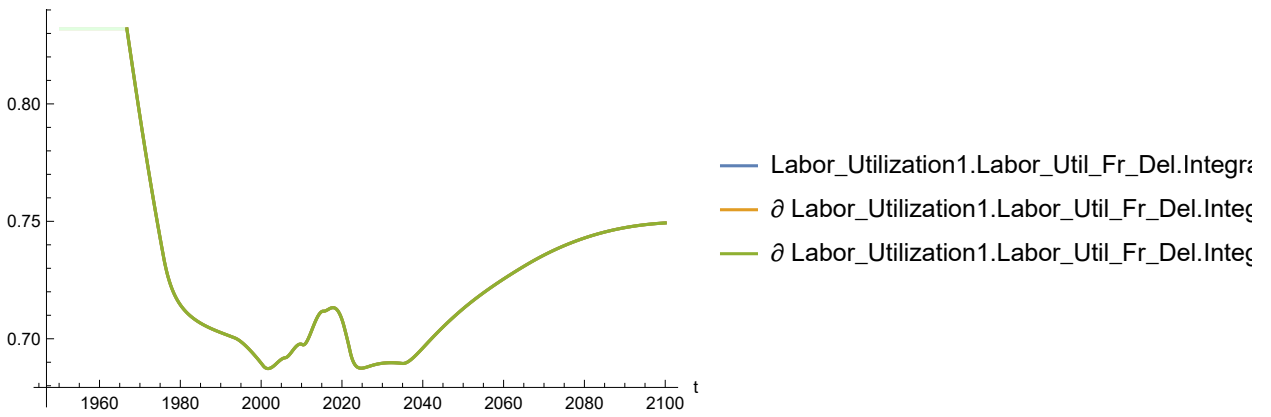
Out[166]=



In[167]:=

```
SystemModelPlot[simsensdata, {"Labor_Utilization1.Labor_Util_Fr_Del.Integrator1.y",
"Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[7]", percentvar}]
```

Out[167]=

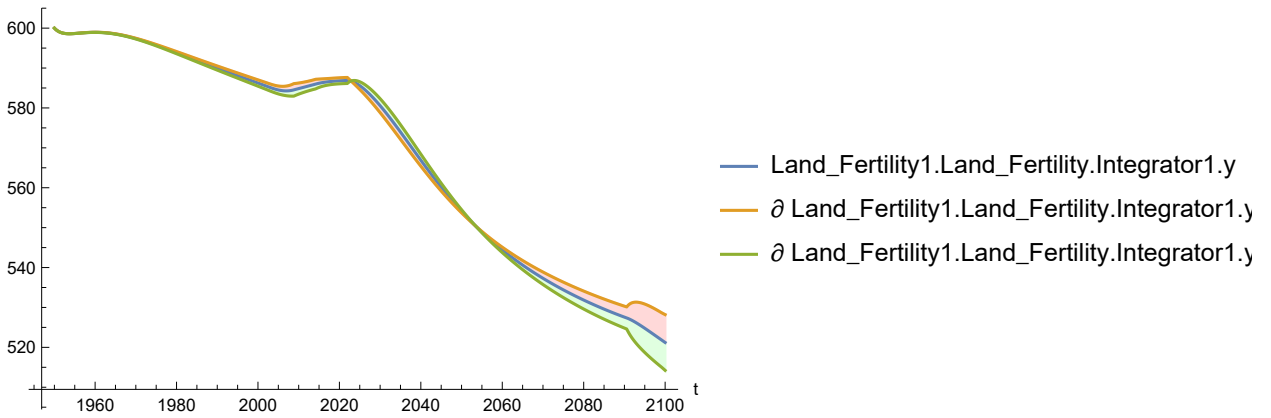


Plot the sensitivity of Land_Fertility1.Land_Fertility.Integrator1.y to Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals.

In[168]:=

```
SystemModelPlot[simsensdata, {"Land_Fertility1.Land_Fertility.Integrator1.y",
"Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[1]", percentvar}]
```

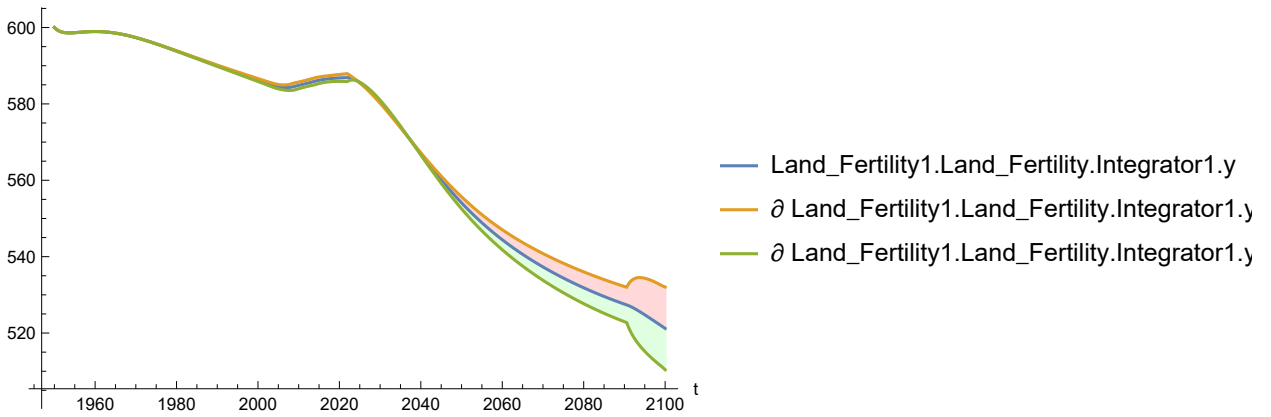
Out[168]:=



In[169]:=

```
SystemModelPlot[simsensdata, {"Land_Fertility1.Land_Fertility.Integrator1.y",
"Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[2]", percentvar}]
```

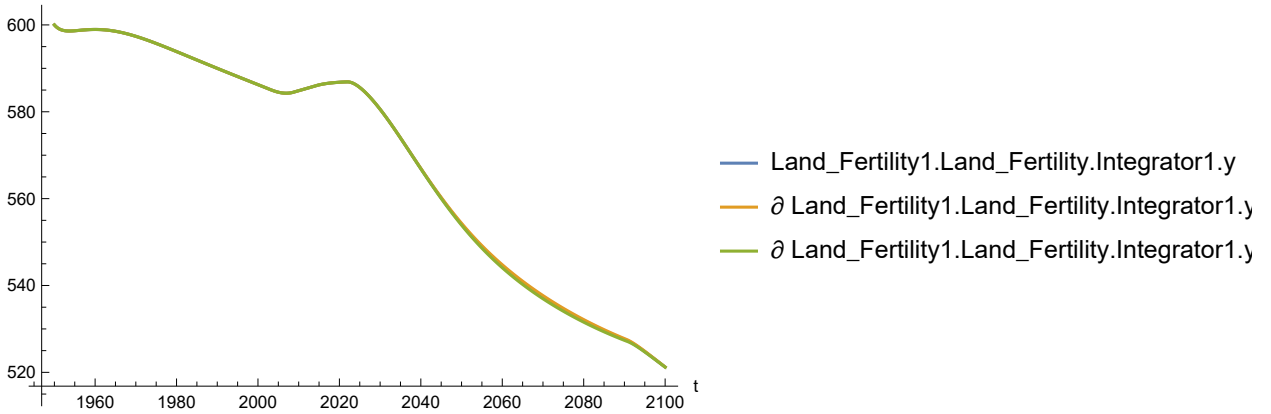
Out[169]:=



In[170]:=

```
SystemModelPlot[simsensdata, {"Land_Fertility1.Land_Fertility.Integrator1.y",
"Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[3]", percentvar}]
```

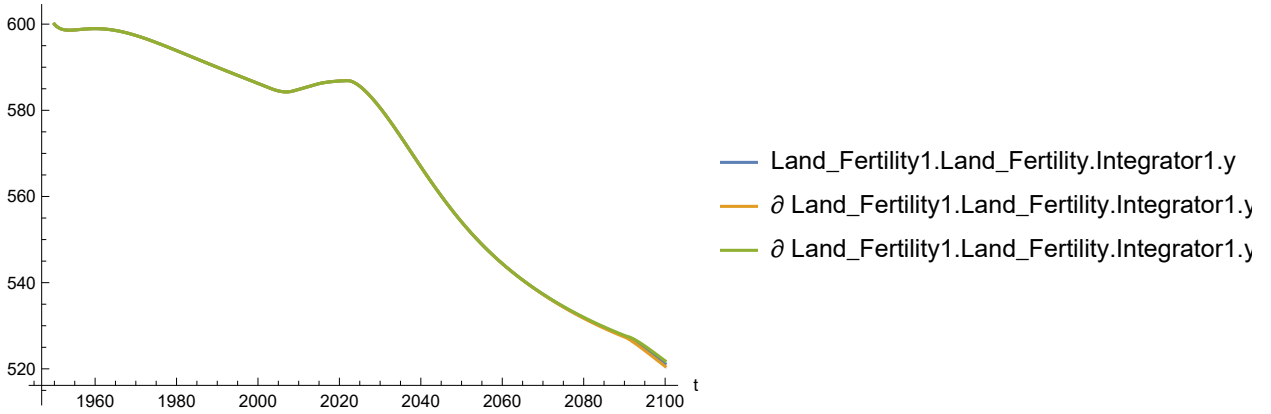
Out[170]:=



In[171]:=

```
SystemModelPlot[simsensdata, {"Land_Fertility1.Land_Fertility.Integrator1.y",
    "Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[4]", percentvar}]
```

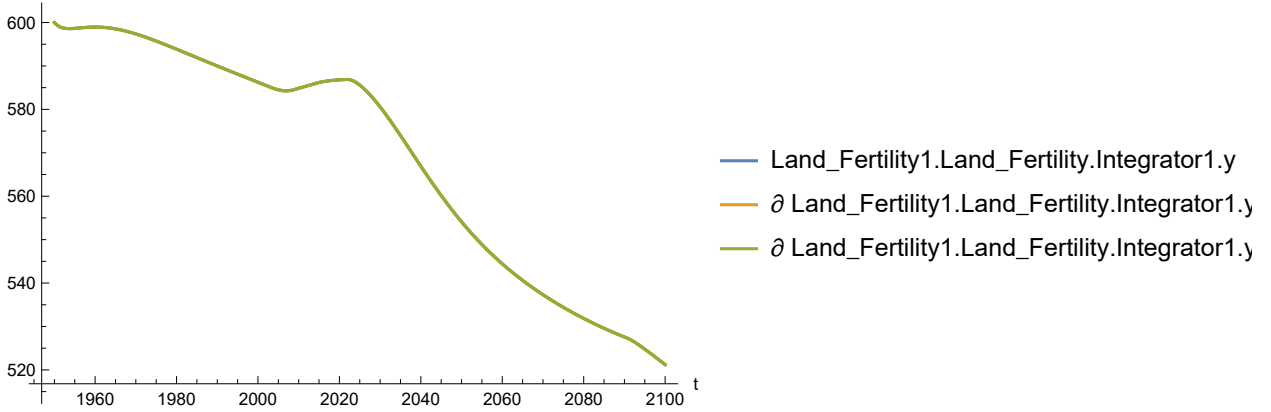
Out[171]=



In[172]:=

```
SystemModelPlot[simsensdata, {"Land_Fertility1.Land_Fertility.Integrator1.y",
    "Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[5]", percentvar}]
```

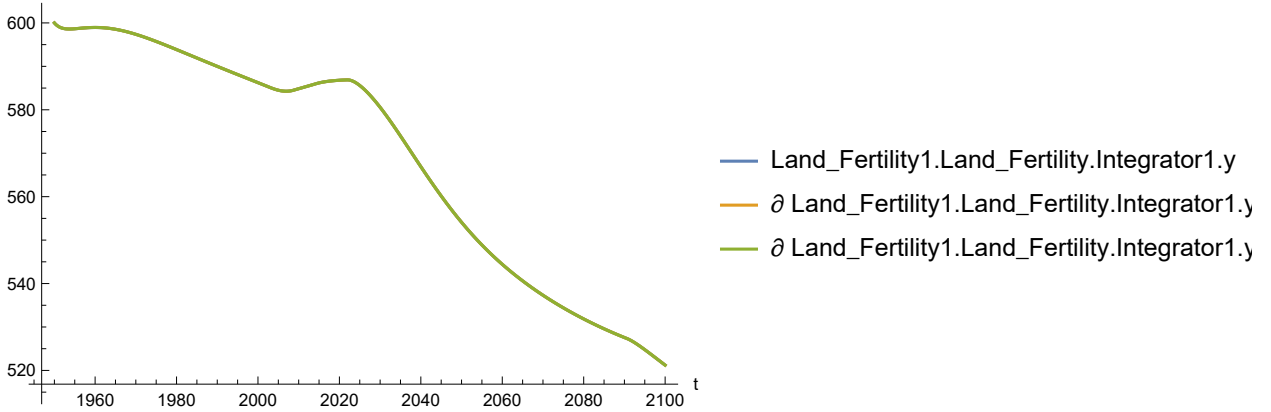
Out[172]=



In[173]:=

```
SystemModelPlot[simsensdata, {"Land_Fertility1.Land_Fertility.Integrator1.y",
    "Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[6]", percentvar}]
```

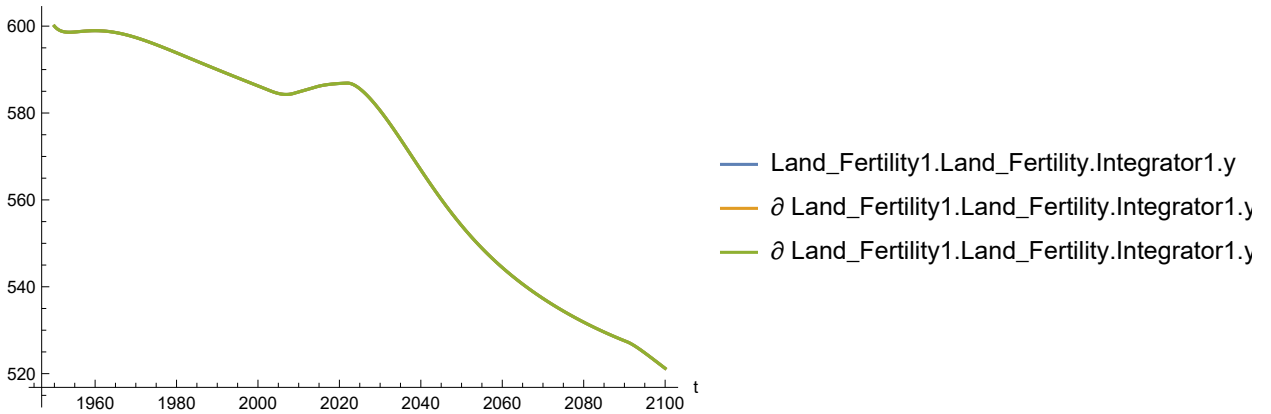
Out[173]=



In[174]:=

```
SystemModelPlot[simsensdata, {"Land_Fertility1.Land_Fertility.Integrator1.y",
"Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[7]", percentvar}]
```

Out[174]=

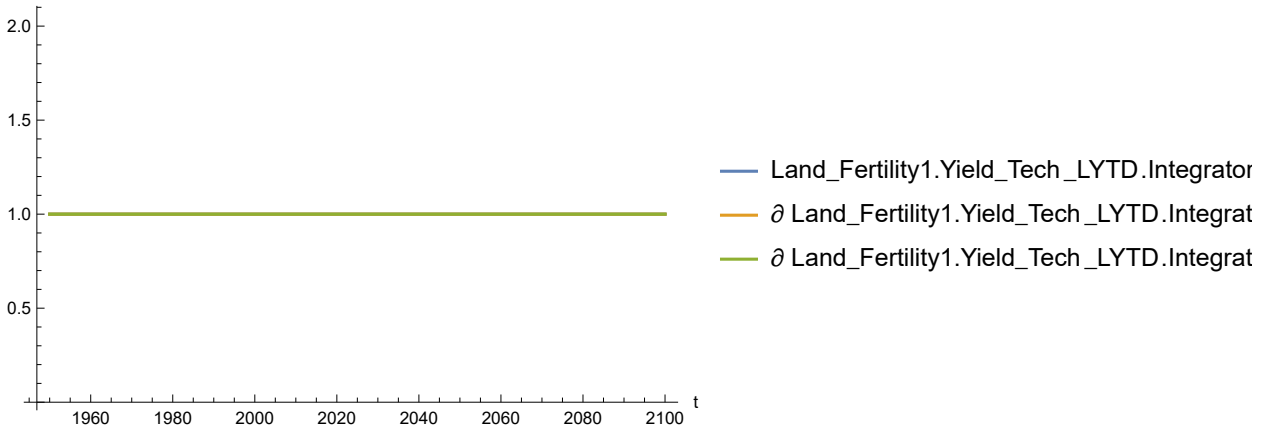


Plot the sensitivity of `Land_Fertility1.Yield_Tech_LYTD.Integrator1.y` to `Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals`.

In[175]:=

```
SystemModelPlot[simsensdata, {"Land_Fertility1.Yield_Tech_LYTD.Integrator1.y",
"Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[1]", percentvar}]
```

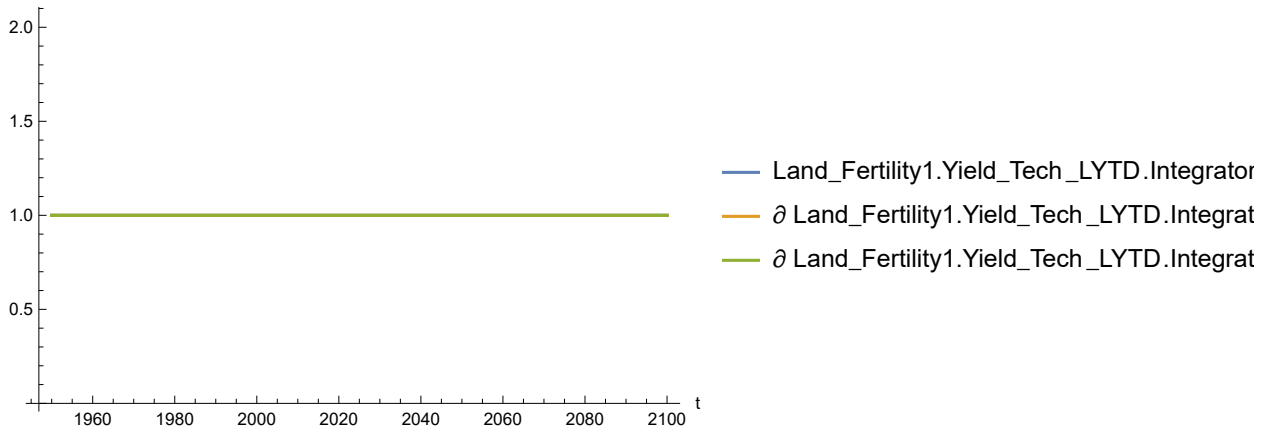
Out[175]=



In[176]:=

```
SystemModelPlot[simsensdata, {"Land_Fertility1.Yield_Tech_LYTD.Integrator1.y",
"Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[2]", percentvar}]
```

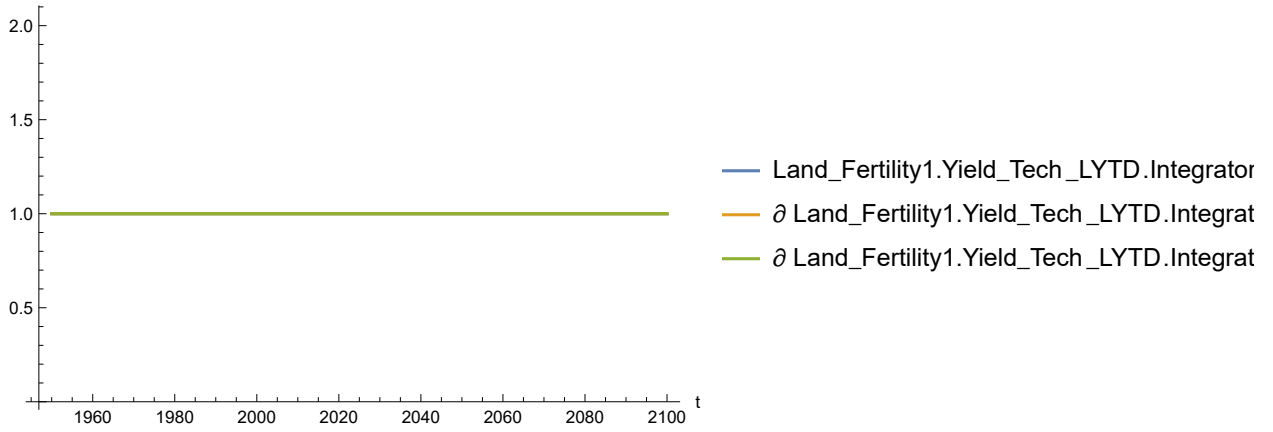
Out[176]=



In[177]:=

```
SystemModelPlot[simsensdata, {"Land_Fertility1.Yield_Tech_LYTD.Integrator1.y",
"Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[3]", percentvar}]
```

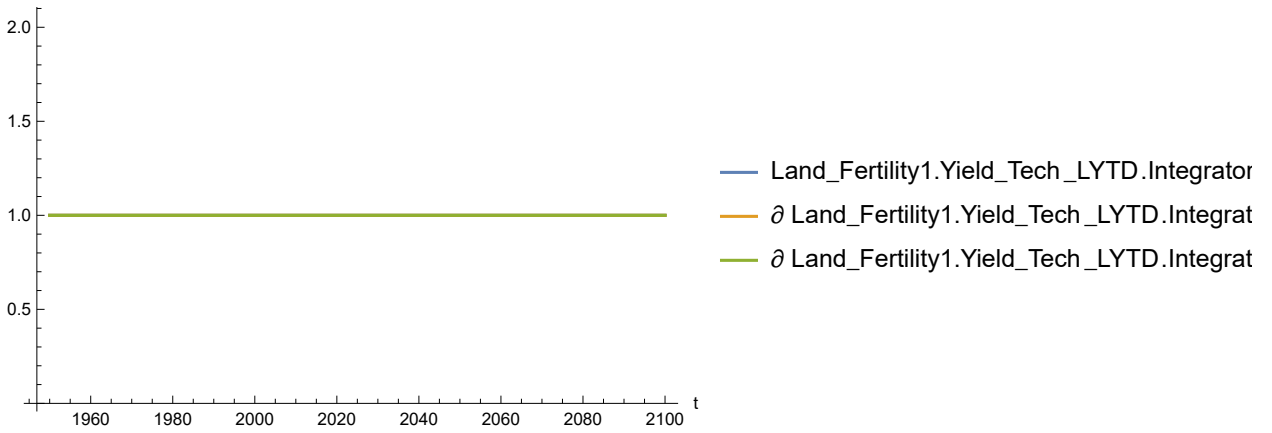
Out[177]=



In[178]:=

```
SystemModelPlot[simsensdata, {"Land_Fertility1.Yield_Tech_LYTD.Integrator1.y",
"Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[4]", percentvar}]
```

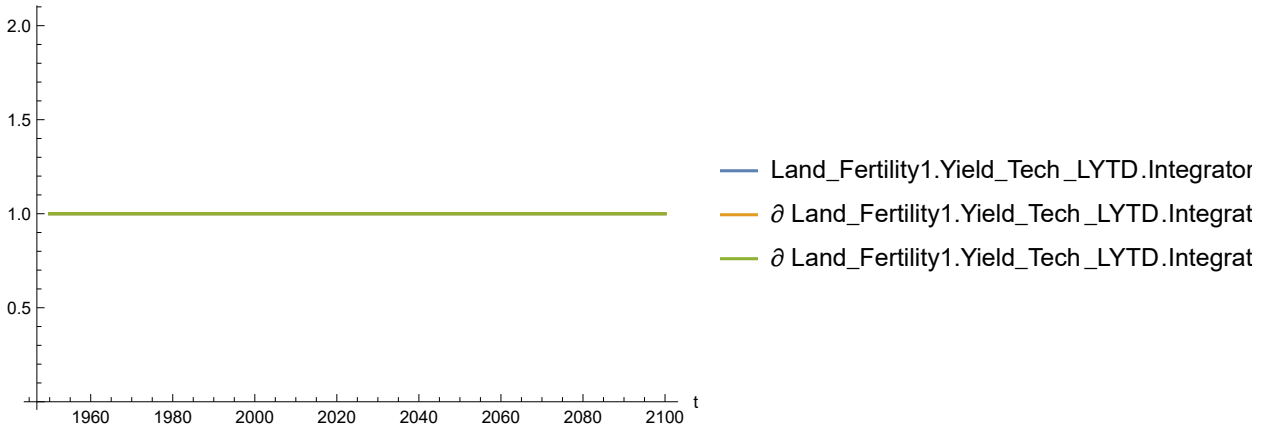
Out[178]=



In[179]:=

```
SystemModelPlot[simsensdata, {"Land_Fertility1.Yield_Tech_LYTD.Integrator1.y",
"Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[5]", percentvar}]
```

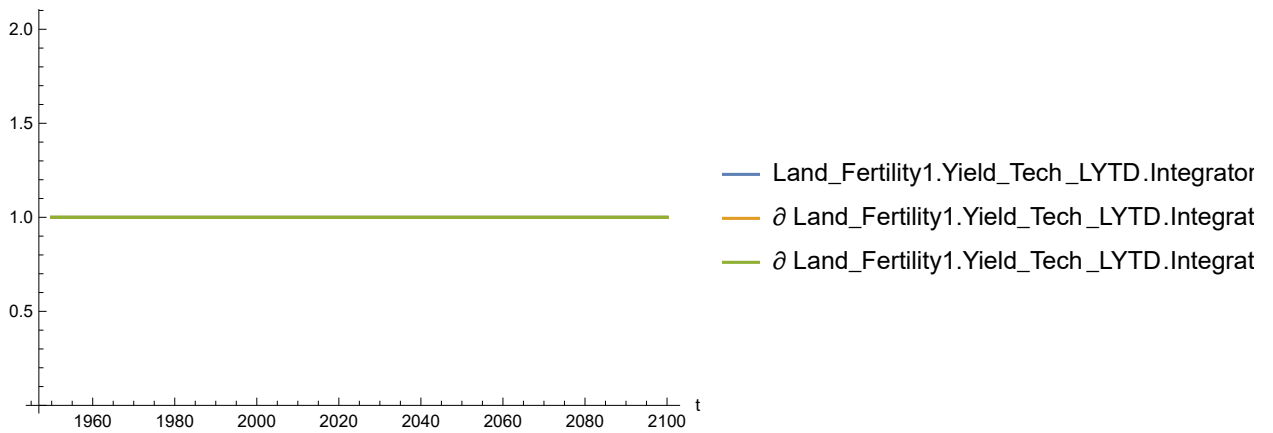
Out[179]=



In[180]:=

```
SystemModelPlot[simsensdata, {"Land_Fertility1.Yield_Tech_LYTD.Integrator1.y",
"Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[6]", percentvar}]
```

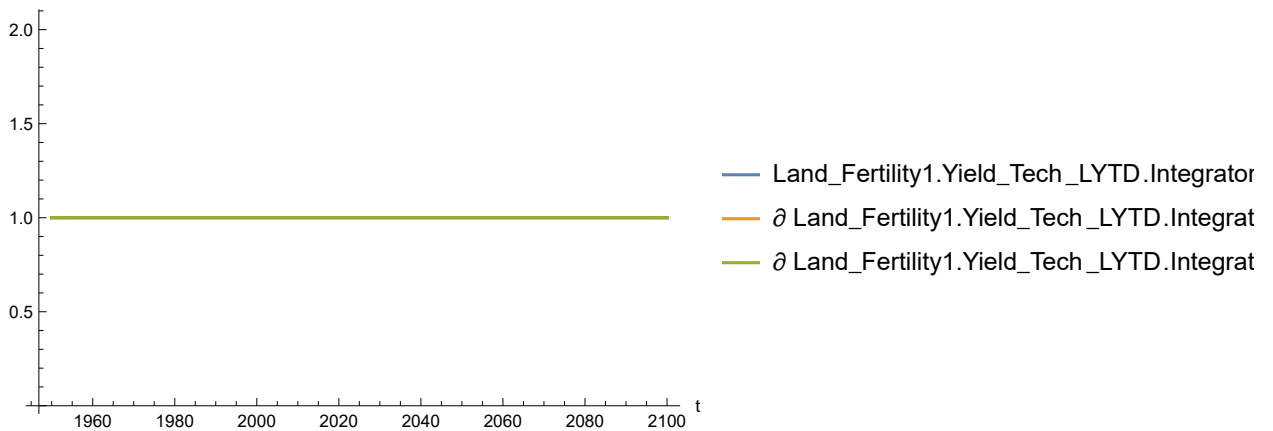
Out[180]=



In[181]:=

```
SystemModelPlot[simsensdata, {"Land_Fertility1.Yield_Tech_LYTD.Integrator1.y",
"Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[7]", percentvar}]
```

Out[181]=

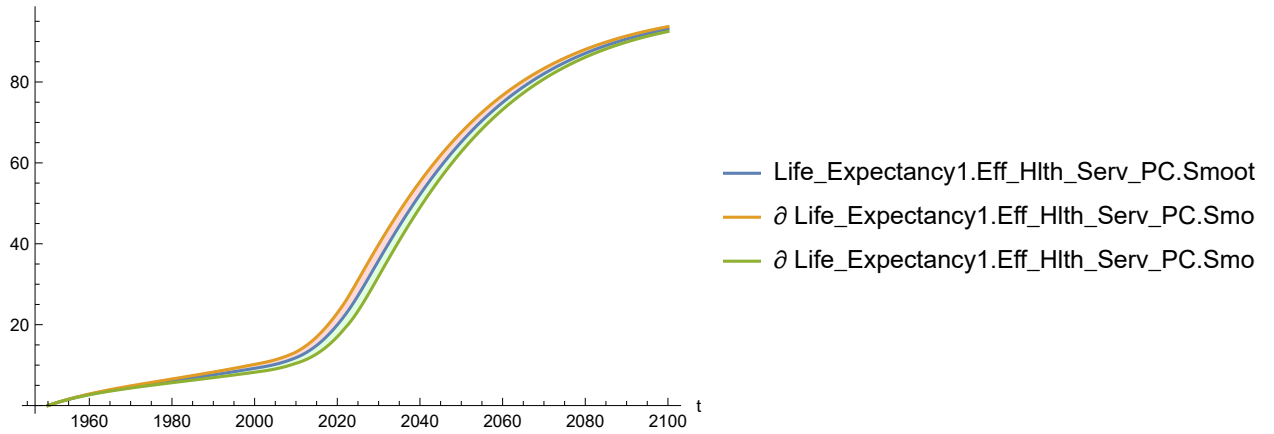


Plot the sensitivity of Life_Expectancy1.Eff_Hlth_Serv_PC.Smooth_of_Input.Integrator1.y to Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals.

In[182]:=

```
SystemModelPlot[simsensdata,
  {"Life_Expectancy1.Eff_Hlth_Serv_PC.Smooth_of_Input.Integrator1.y",
   "Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[1]", percentvar}]
```

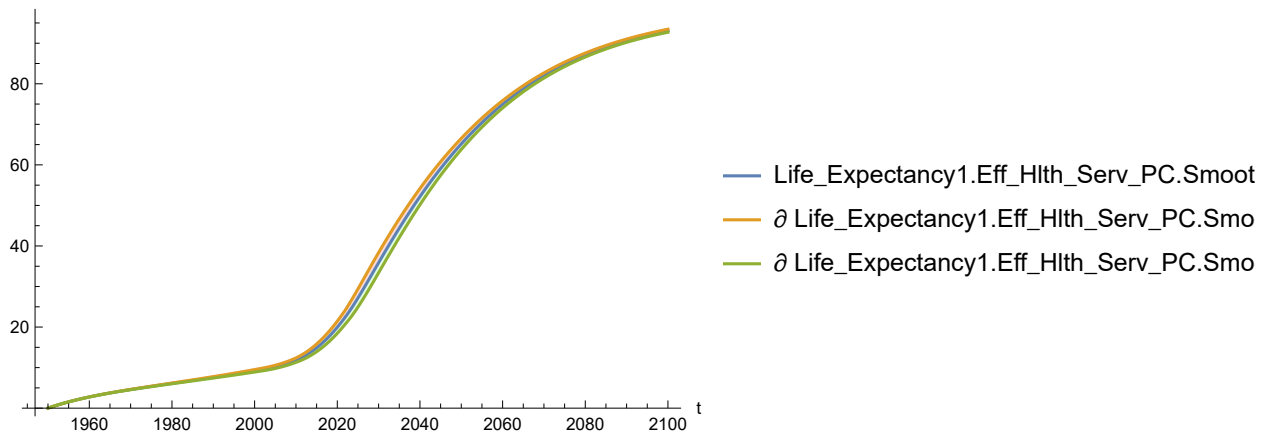
Out[182]=



In[183]:=

```
SystemModelPlot[simsensdata,
  {"Life_Expectancy1.Eff_Hlth_Serv_PC.Smooth_of_Input.Integrator1.y",
   "Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[2]", percentvar}]
```

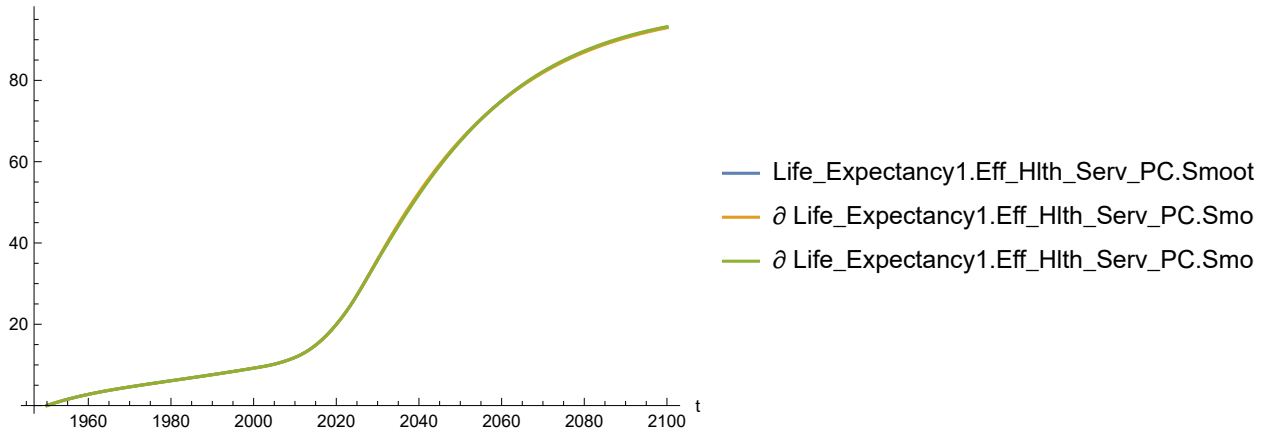
Out[183]=



In[184]:=

```
SystemModelPlot[simsensdata,
  {"Life_Expectancy1.Eff_Hlth_Serv_PC.Smooth_of_Input.Integrator1.y",
   "Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[3]", percentvar}]
```

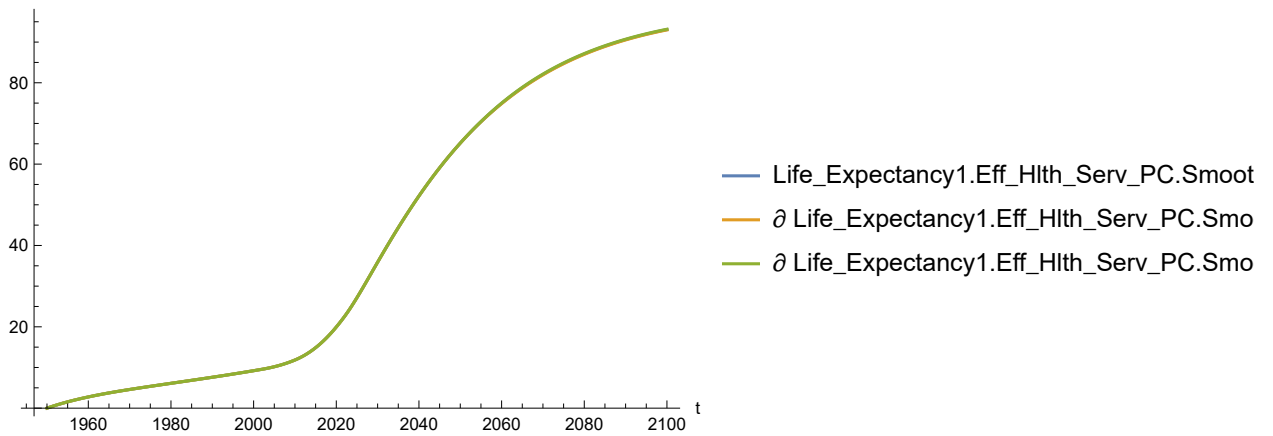
Out[184]=



In[185]:=

```
SystemModelPlot[simsensdata,
  {"Life_Expectancy1.Eff_Hlth_Serv_PC.Smooth_of_Input.Integrator1.y",
   "Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[4]", percentvar}]
```

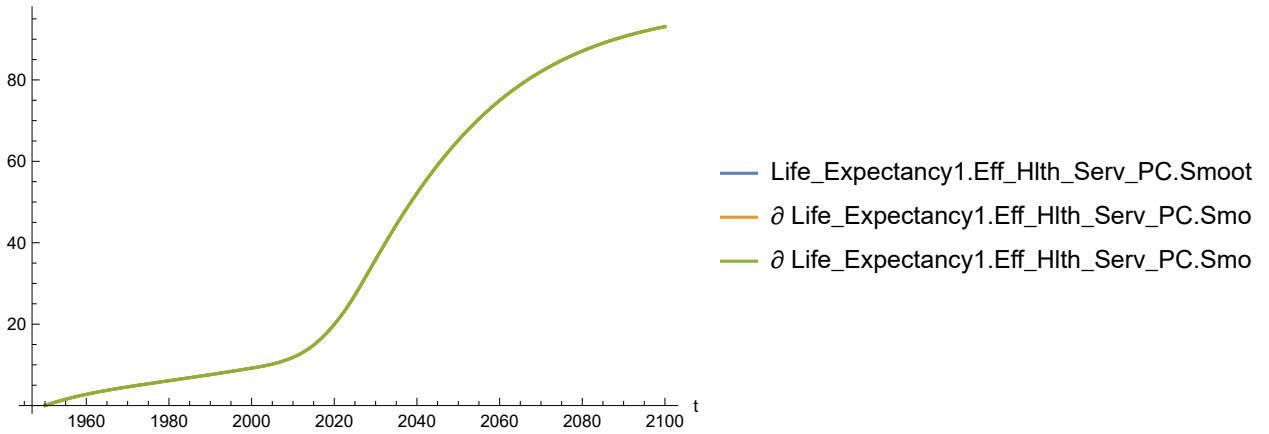
Out[185]=



In[186]:=

```
SystemModelPlot[simsensdata,
  {"Life_Expectancy1.Eff_Hlth_Serv_PC.Smooth_of_Input.Integrator1.y",
   "Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[5]", percentvar}]
```

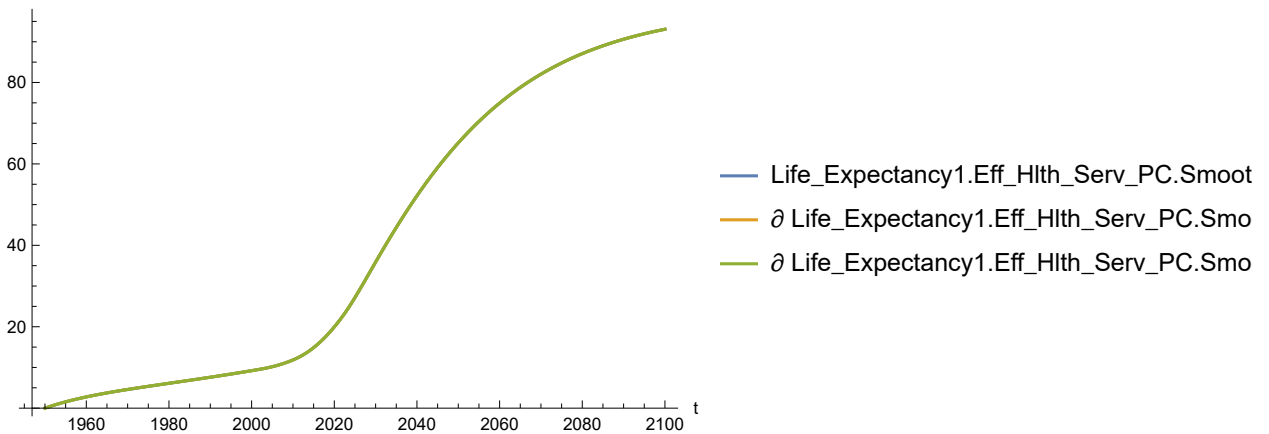
Out[186]=



In[187]:=

```
SystemModelPlot[simsensdata,
  {"Life_Expectancy1.Eff_Hlth_Serv_PC.Smooth_of_Input.Integrator1.y",
   "Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[6]", percentvar}]
```

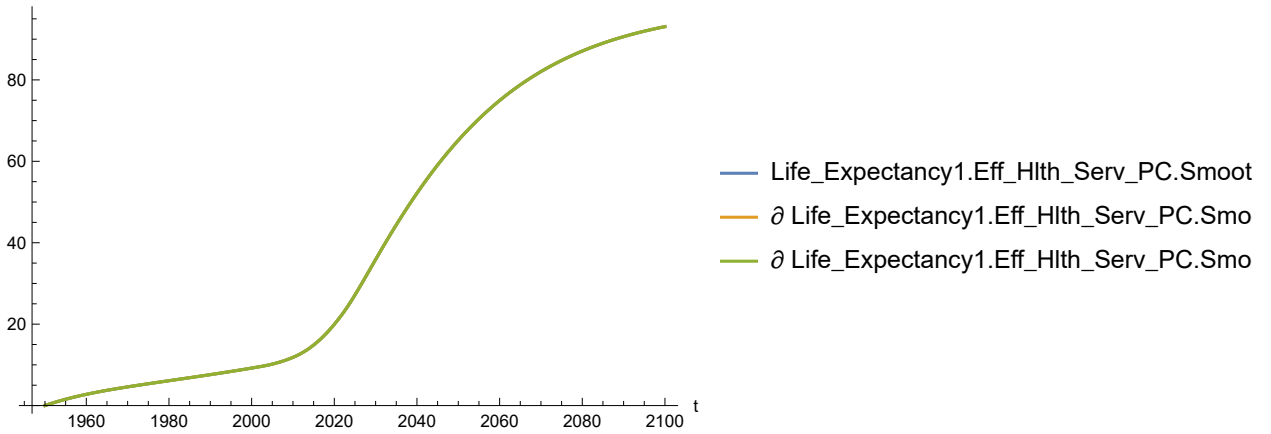
Out[187]=



In[188]:=

```
SystemModelPlot[simsensdata,
  {"Life_Expectancy1.Eff_Hlth_Serv_PC.Smooth_of_Input.Integrator1.y",
   "Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[7]", percentvar}]
```

Out[188]=

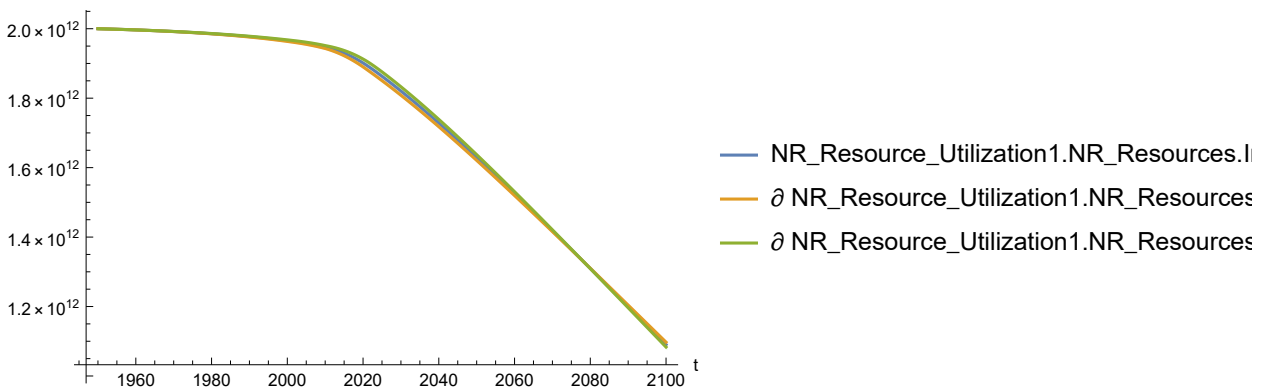


Plot the sensitivity of `NR_Resource_Utilization1.NR_Resources.Integrator1.y` to `Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals`.

In[189]:=

```
SystemModelPlot[simsensdata, {"NR_Resource_Utilization1.NR_Resources.Integrator1.y",
  "Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[1]", percentvar}]
```

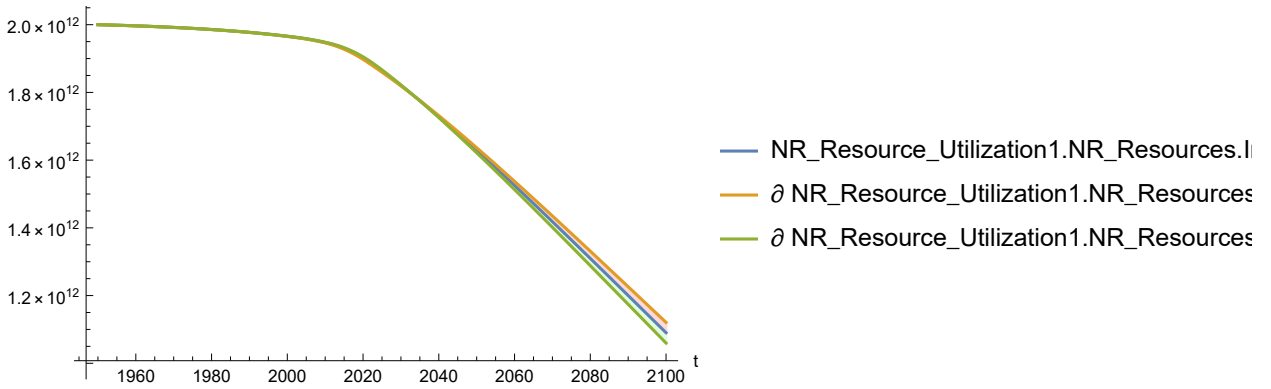
Out[189]=



In[190]:=

```
SystemModelPlot[simsensdata, {"NR_Resource_Utilization1.NR_Resources.Integrator1.y",
"Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[2]", percentvar}]
```

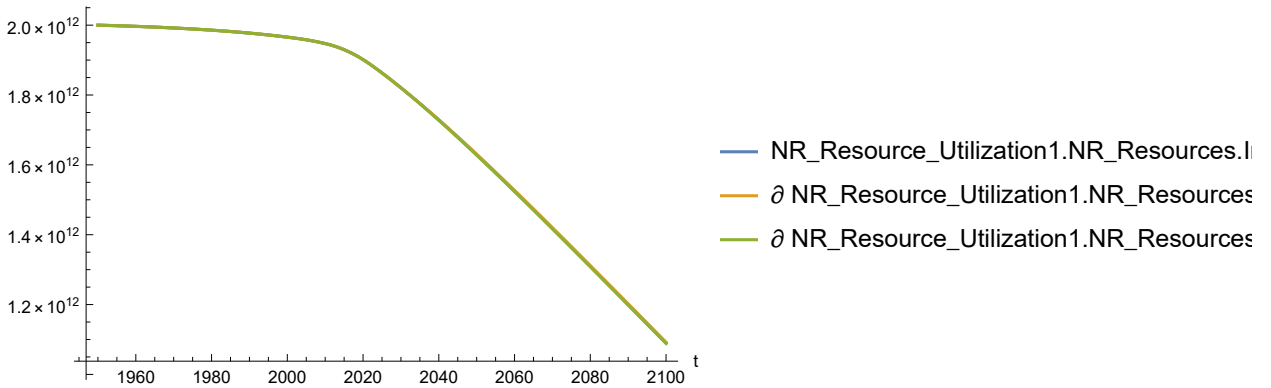
Out[190]=



In[191]:=

```
SystemModelPlot[simsensdata, {"NR_Resource_Utilization1.NR_Resources.Integrator1.y",
"Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[3]", percentvar}]
```

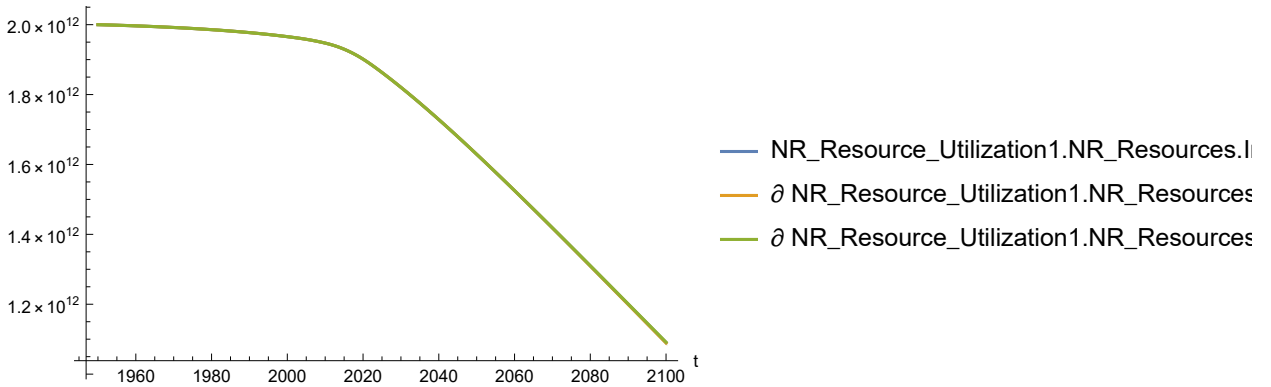
Out[191]=



In[192]:=

```
SystemModelPlot[simsensdata, {"NR_Resource_Utilization1.NR_Resources.Integrator1.y",
"Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[4]", percentvar}]
```

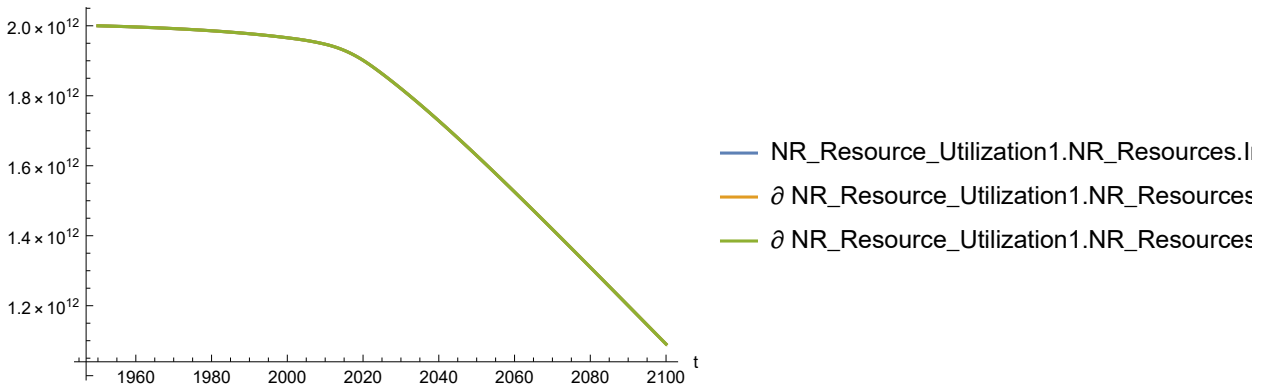
Out[192]=



In[193]:=

```
SystemModelPlot[simsensdata, {"NR_Resource_Utilization1.NR_Resources.Integrator1.y",
"Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[5]", percentvar}]
```

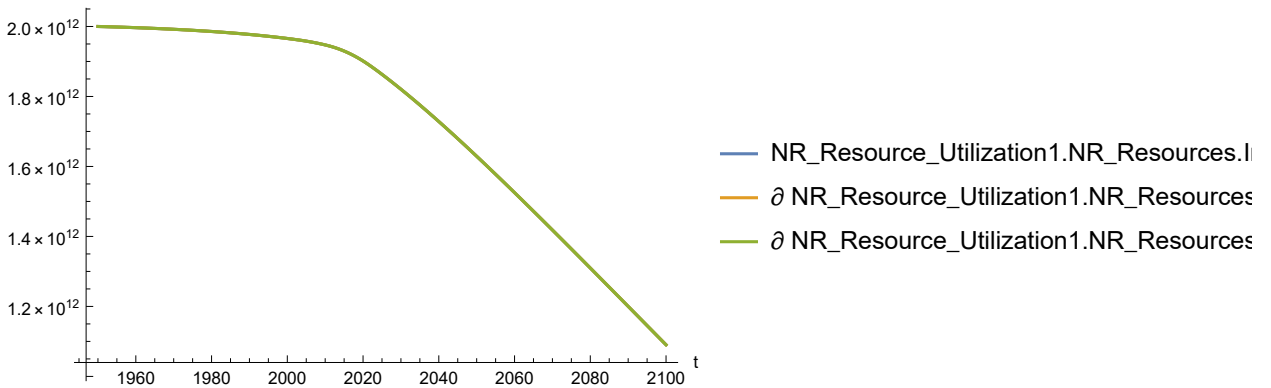
Out[193]:=



In[194]:=

```
SystemModelPlot[simsensdata, {"NR_Resource_Utilization1.NR_Resources.Integrator1.y",
"Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[6]", percentvar}]
```

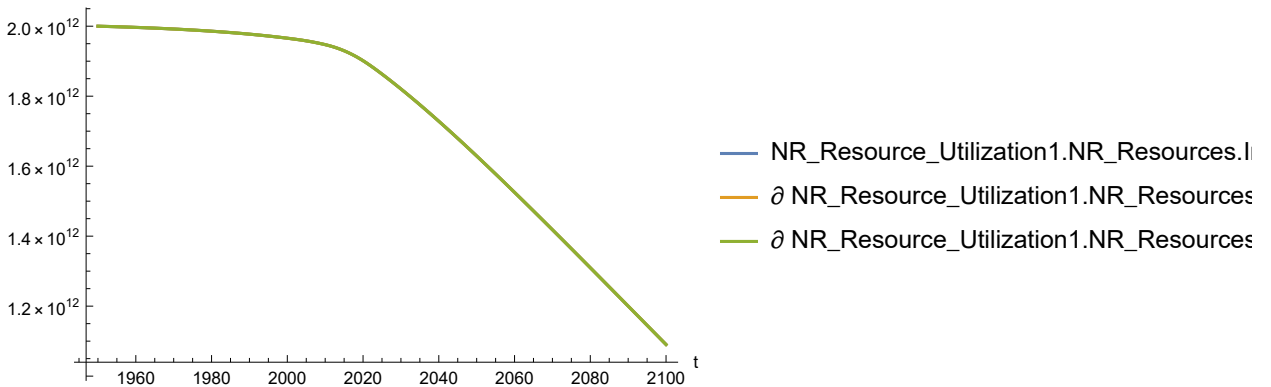
Out[194]:=



In[195]:=

```
SystemModelPlot[simsensdata, {"NR_Resource_Utilization1.NR_Resources.Integrator1.y",
"Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[7]", percentvar}]
```

Out[195]:=

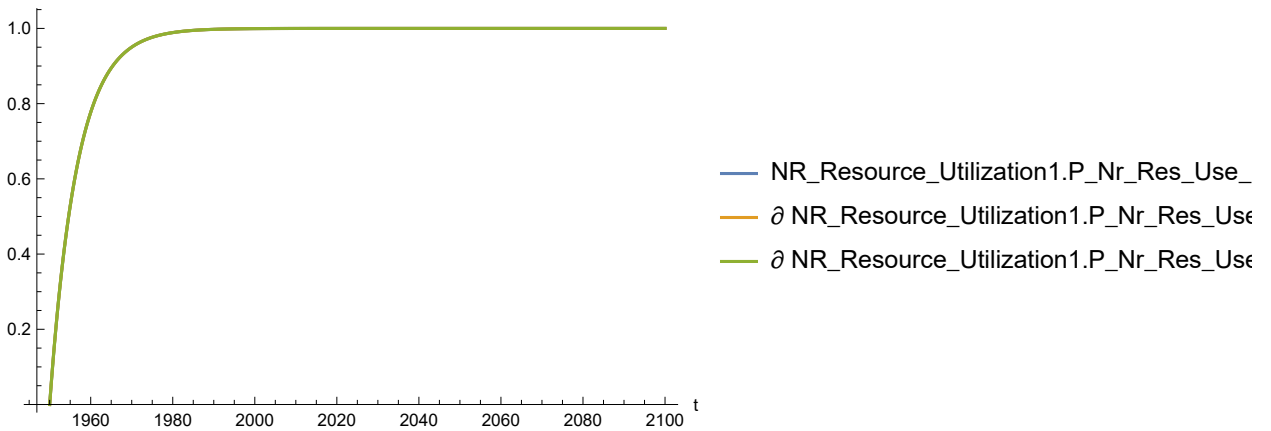


Plot the sensitivity of NR_Resource_Utilization1.P_Nr_Res_Use_Fact_2.Smooth1.Integrator1.y to Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals.

In[196]:=

```
SystemModelPlot[simsensdata,
  {"NR_Resource_Utilization1.P_Nr_Res_Use_Fact_2.Smooth1.Integrator1.y",
   "Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[1]", percentvar}]
```

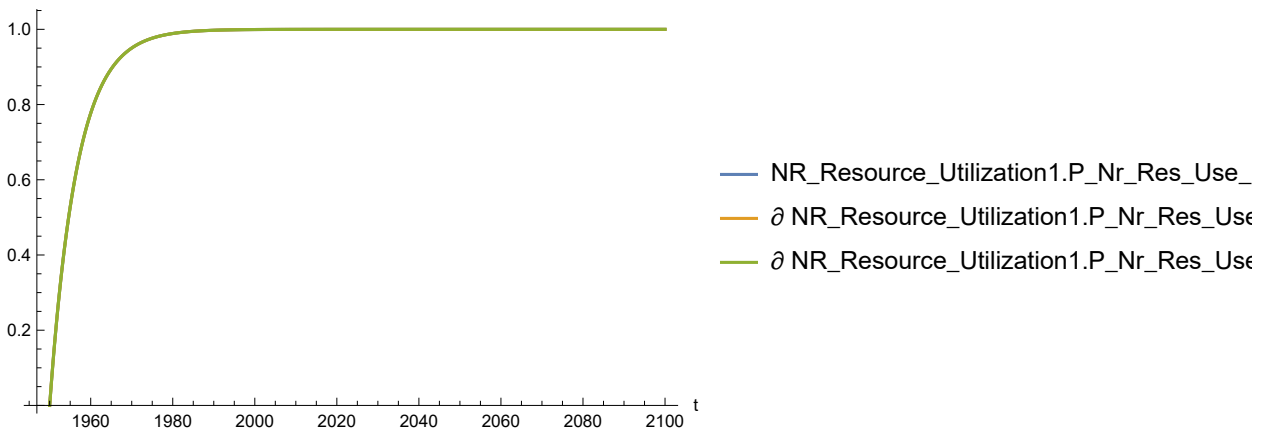
Out[196]=



In[197]:=

```
SystemModelPlot[simsensdata,
  {"NR_Resource_Utilization1.P_Nr_Res_Use_Fact_2.Smooth1.Integrator1.y",
   "Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[2]", percentvar}]
```

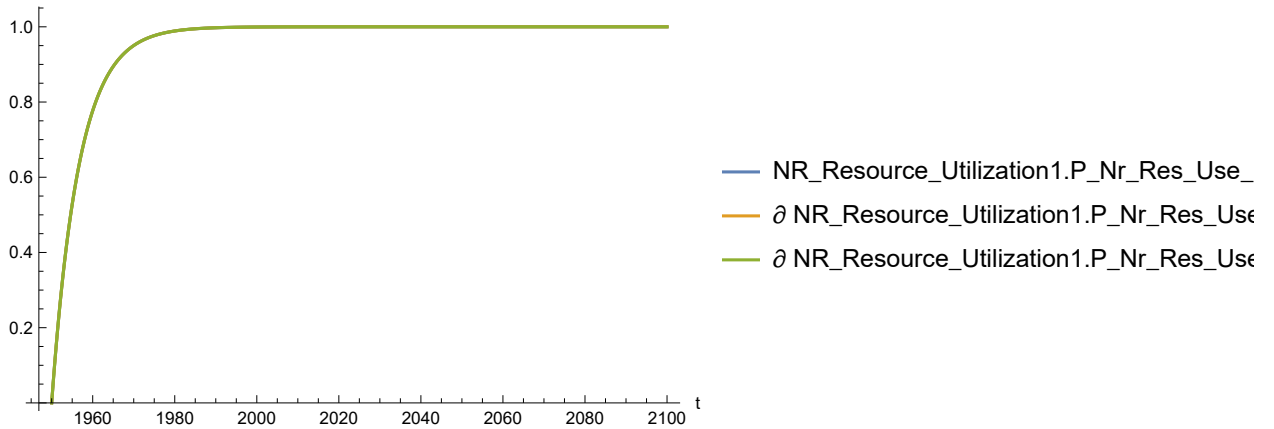
Out[197]=



In[198]:=

```
SystemModelPlot[simsensdata,
  {"NR_Resource_Utilization1.P_Nr_Res_Use_Fact_2.Smooth1.Integrator1.y",
   "Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[3]", percentvar}]
```

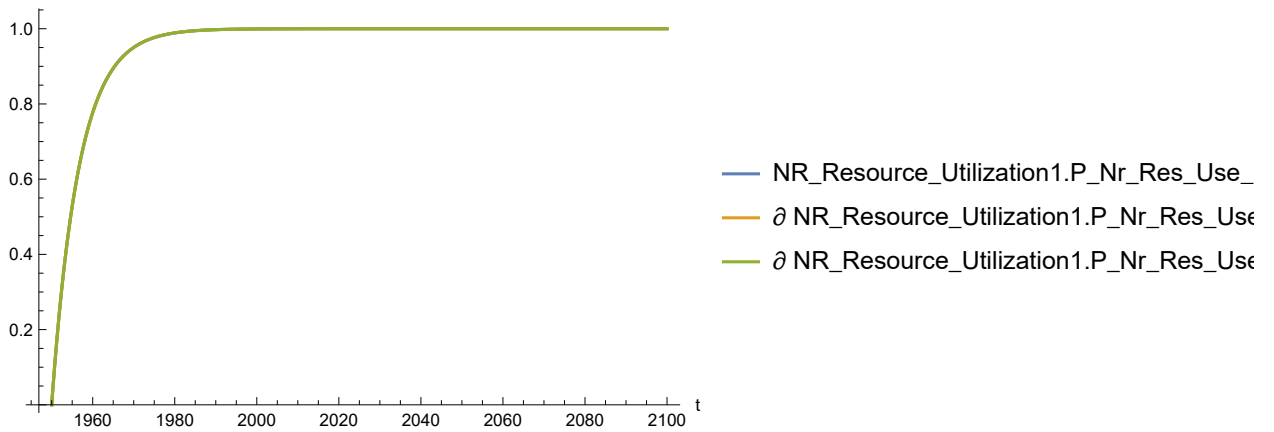
Out[198]=



In[199]:=

```
SystemModelPlot[simsensdata,
  {"NR_Resource_Utilization1.P_Nr_Res_Use_Fact_2.Smooth1.Integrator1.y",
   "Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[4]", percentvar}]
```

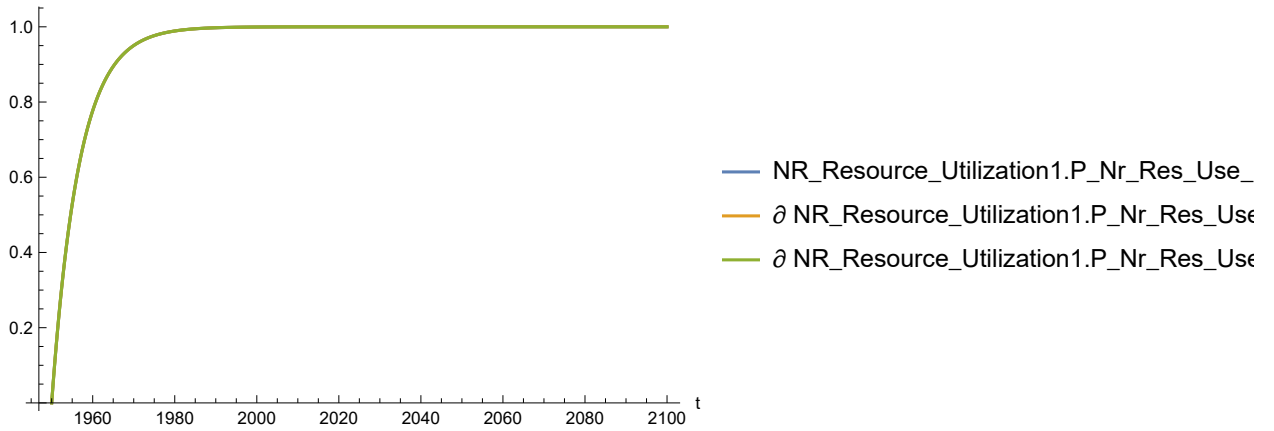
Out[199]=



In[200]:=

```
SystemModelPlot[simsensdata,
  {"NR_Resource_Utilization1.P_Nr_Res_Use_Fact_2.Smooth1.Integrator1.y",
   "Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[5]", percentvar}]
```

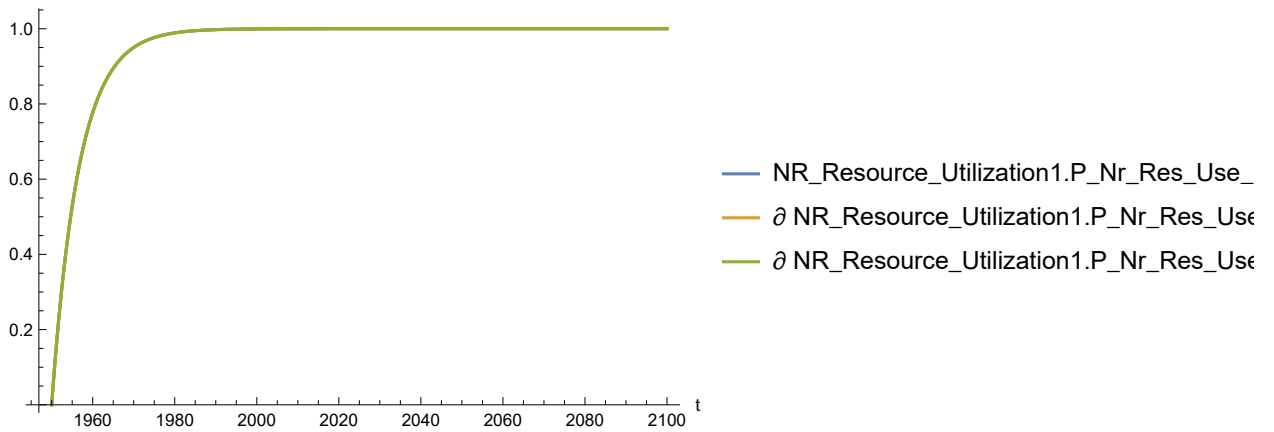
Out[200]=



In[201]:=

```
SystemModelPlot[simsensdata,
  {"NR_Resource_Utilization1.P_Nr_Res_Use_Fact_2.Smooth1.Integrator1.y",
   "Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[6]", percentvar}]
```

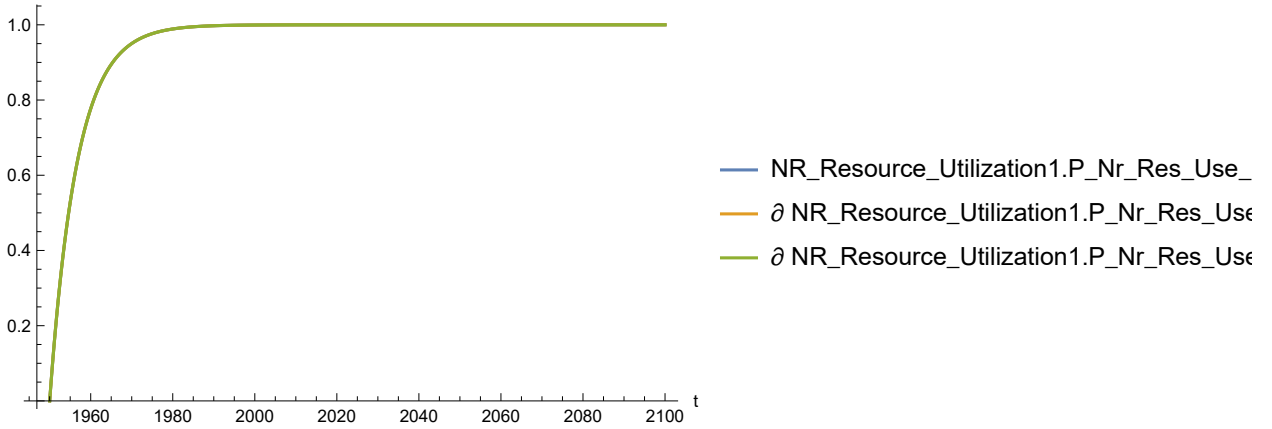
Out[201]=



In[202]:=

```
SystemModelPlot[simsensdata,
  {"NR_Resource_Utilization1.P_Nr_Res_Use_Fact_2.Smooth1.Integrator1.y",
   "Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[7]", percentvar}]
```

Out[202]=

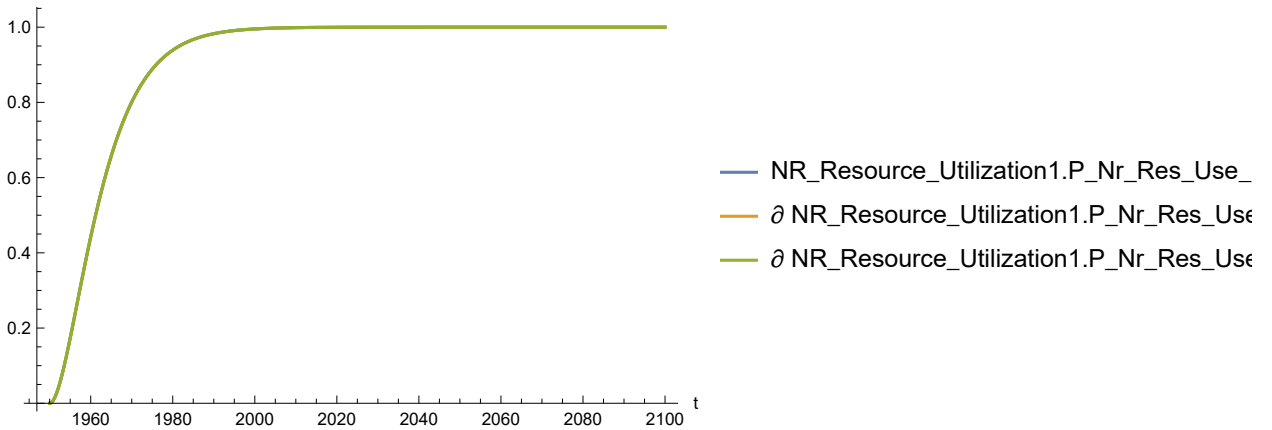


Plot the sensitivity of NR_Resource_Utilization1.P_Nr_Res_Use_Fact_2.Smooth2.Integrator1.y to Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals.

In[203]:=

```
SystemModelPlot[simsensdata,
  {"NR_Resource_Utilization1.P_Nr_Res_Use_Fact_2.Smooth2.Integrator1.y",
   "Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[1]", percentvar}]
```

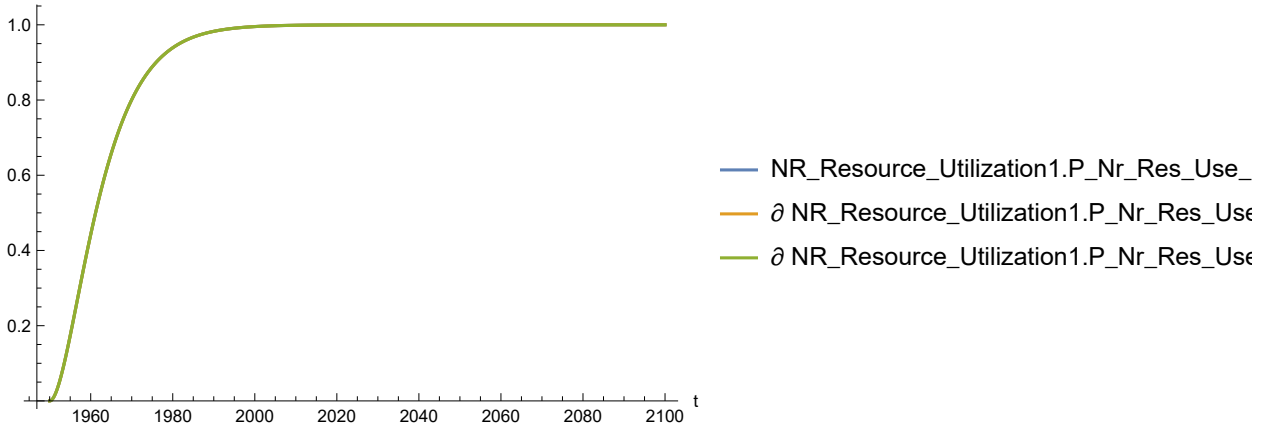
Out[203]=



In[204]:=

```
SystemModelPlot[simsensdata,
  {"NR_Resource_Utilization1.P_Nr_Res_Use_Fact_2.Smooth2.Integrator1.y",
   "Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[2]", percentvar}]
```

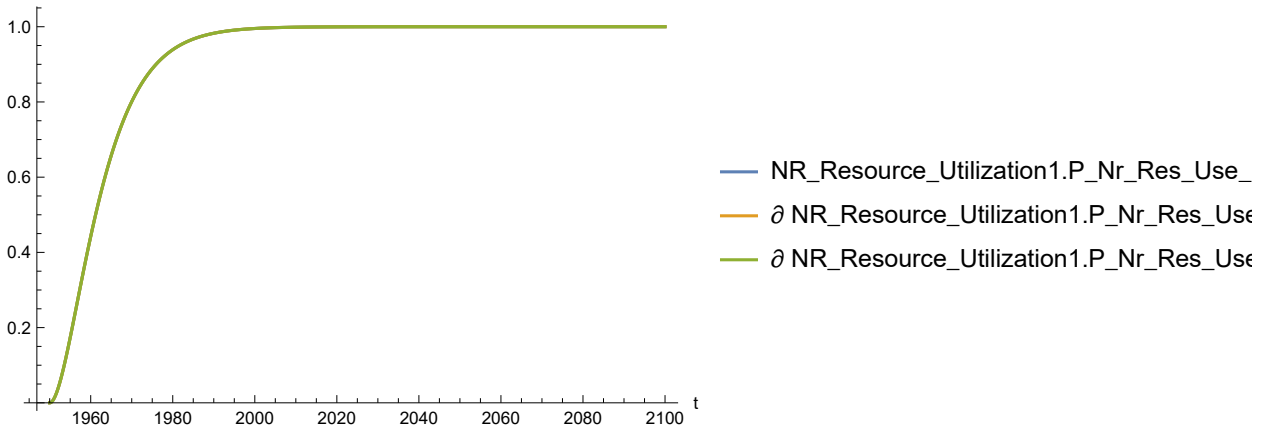
Out[204]=



In[205]:=

```
SystemModelPlot[simsensdata,
  {"NR_Resource_Utilization1.P_Nr_Res_Use_Fact_2.Smooth2.Integrator1.y",
   "Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[3]", percentvar}]
```

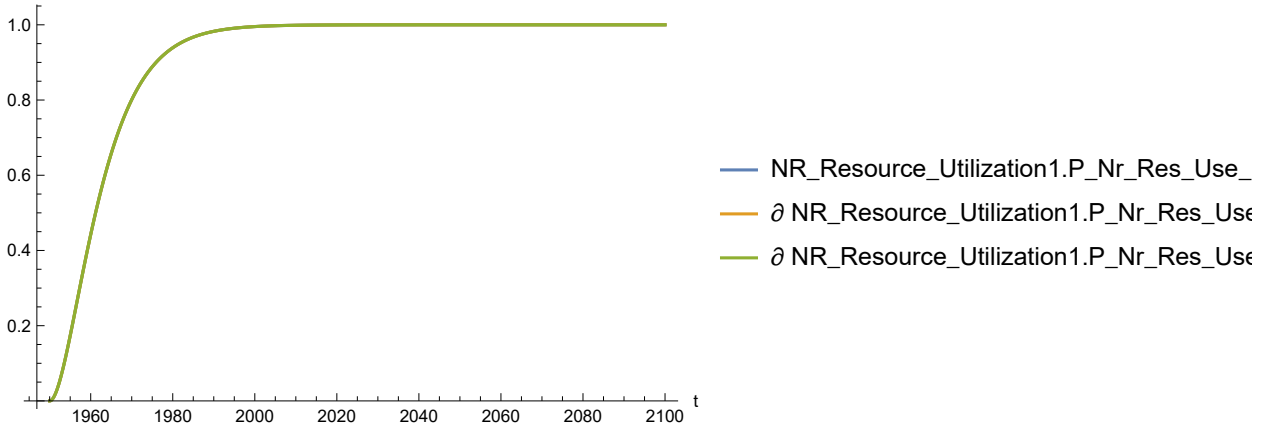
Out[205]=



In[206]:=

```
SystemModelPlot[simsensdata,
  {"NR_Resource_Utilization1.P_Nr_Res_Use_Fact_2.Smooth2.Integrator1.y",
   "Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[4]", percentvar}]
```

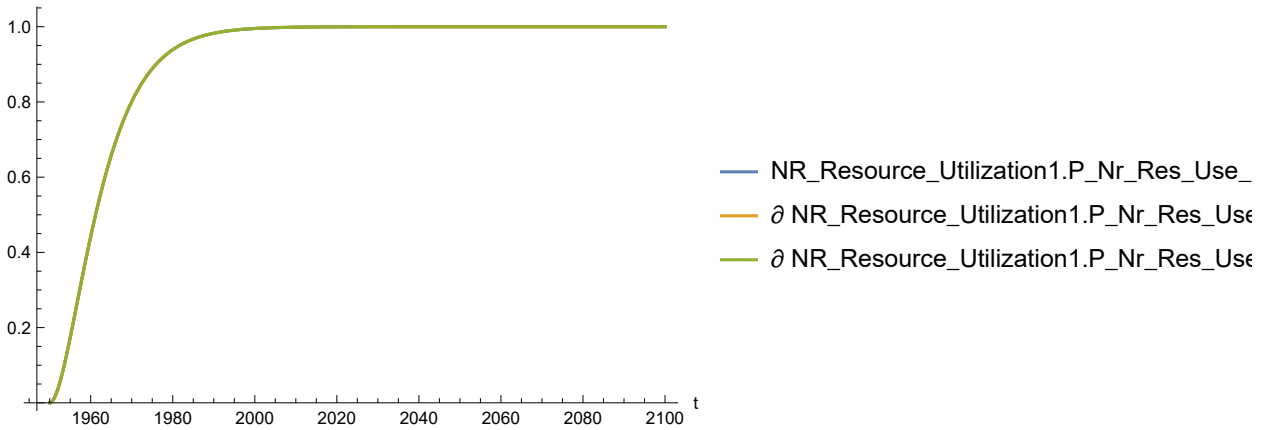
Out[206]=



In[207]:=

```
SystemModelPlot[simsensdata,
  {"NR_Resource_Utilization1.P_Nr_Res_Use_Fact_2.Smooth2.Integrator1.y",
   "Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[5]", percentvar}]
```

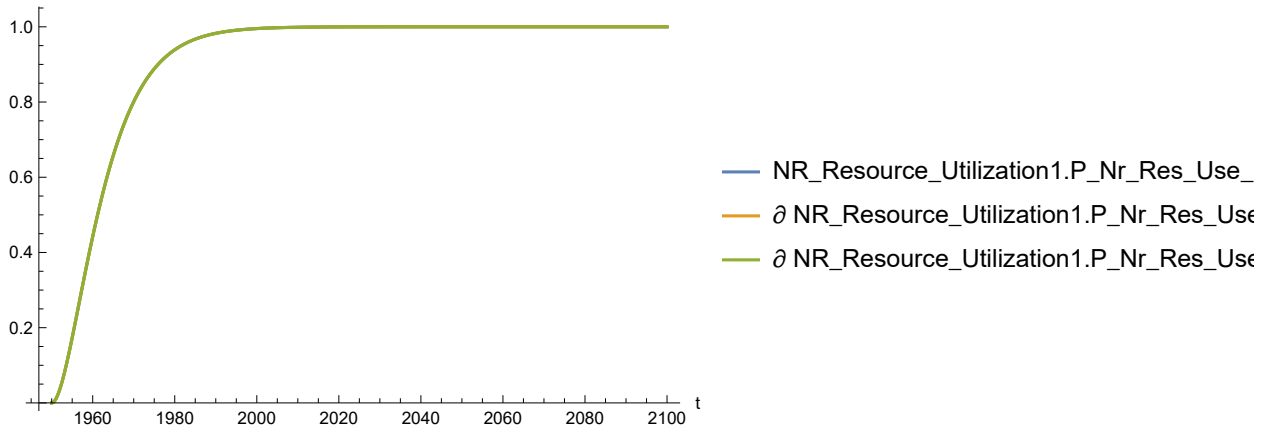
Out[207]=



In[208]:=

```
SystemModelPlot[simsensdata,
  {"NR_Resource_Utilization1.P_Nr_Res_Use_Fact_2.Smooth2.Integrator1.y",
   "Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[6]", percentvar}]
```

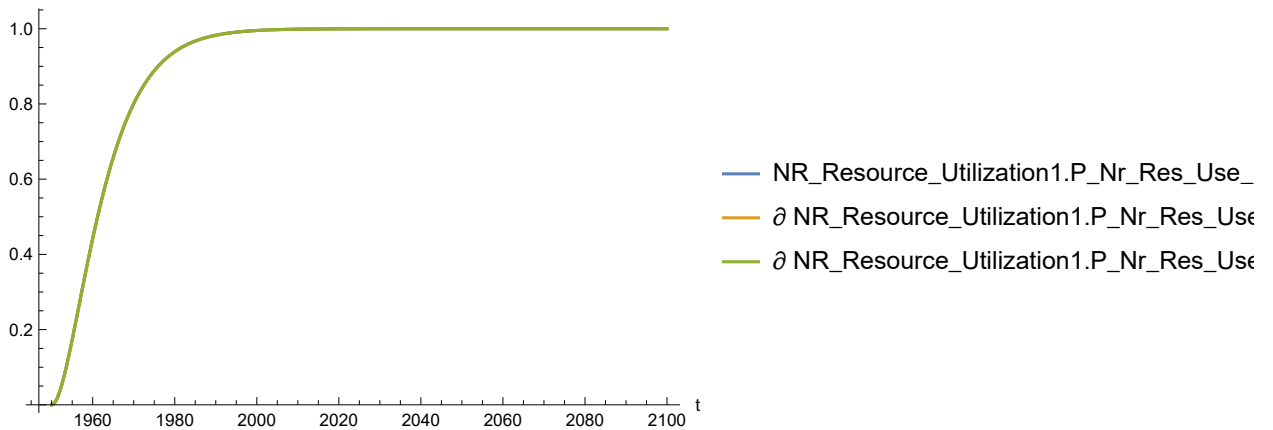
Out[208]=



In[209]:=

```
SystemModelPlot[simsensdata,
  {"NR_Resource_Utilization1.P_Nr_Res_Use_Fact_2.Smooth2.Integrator1.y",
   "Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[7]", percentvar}]
```

Out[209]=

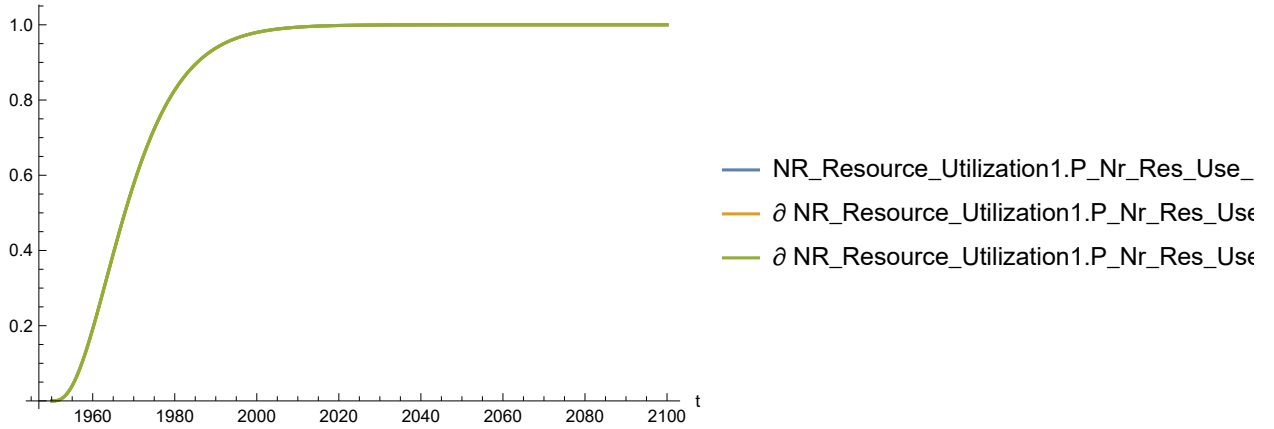


Plot the sensitivity of NR_Resource_Utilization1.P_Nr_Res_Use_Fact_2.Smooth3.Integrator1.y to Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals.

In[210]:=

```
SystemModelPlot[simsensdata,
  {"NR_Resource_Utilization1.P_Nr_Res_Use_Fact_2.Smooth3.Integrator1.y",
   "Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[1]", percentvar}]
```

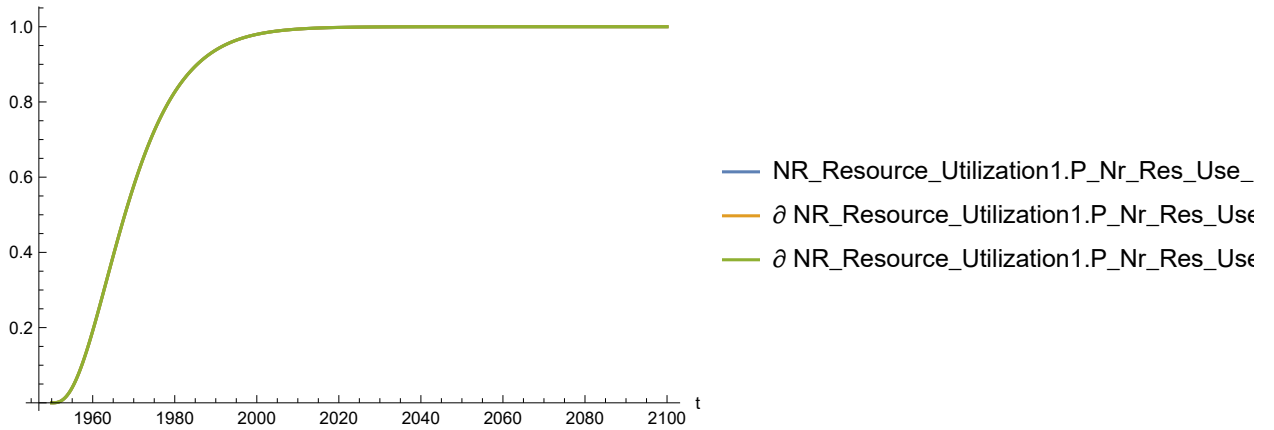
Out[210]=



In[211]:=

```
SystemModelPlot[simsensdata,
  {"NR_Resource_Utilization1.P_Nr_Res_Use_Fact_2.Smooth3.Integrator1.y",
   "Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[2]", percentvar}]
```

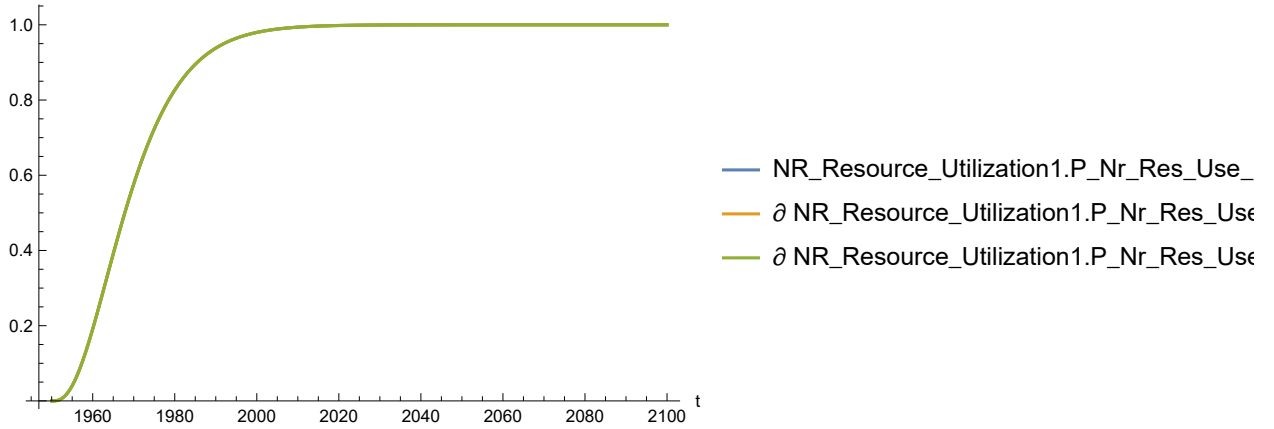
Out[211]=



In[212]:=

```
SystemModelPlot[simsensdata,
  {"NR_Resource_Utilization1.P_Nr_Res_Use_Fact_2.Smooth3.Integrator1.y",
   "Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[3]", percentvar}]
```

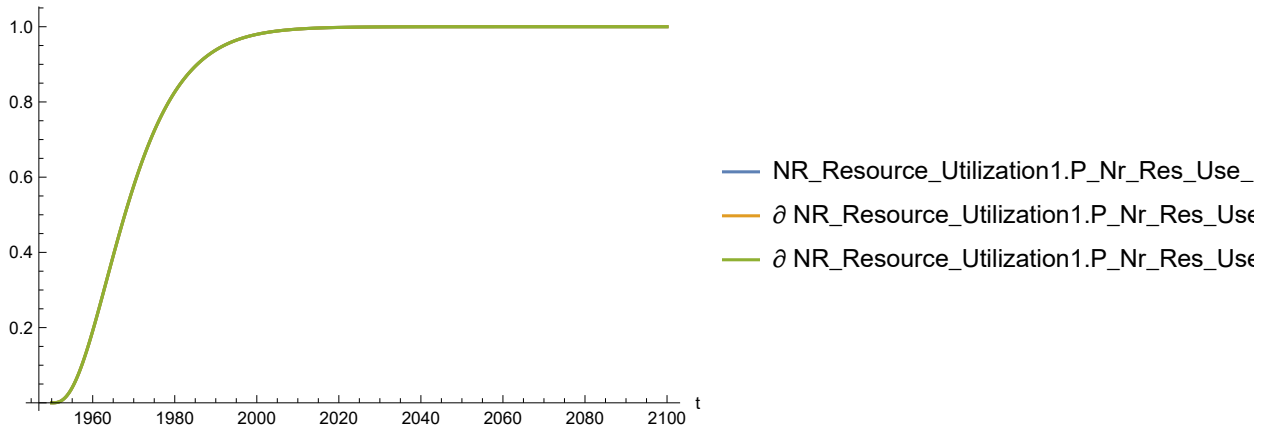
Out[212]=



In[213]:=

```
SystemModelPlot[simsensdata,
  {"NR_Resource_Utilization1.P_Nr_Res_Use_Fact_2.Smooth3.Integrator1.y",
   "Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[4]", percentvar}]
```

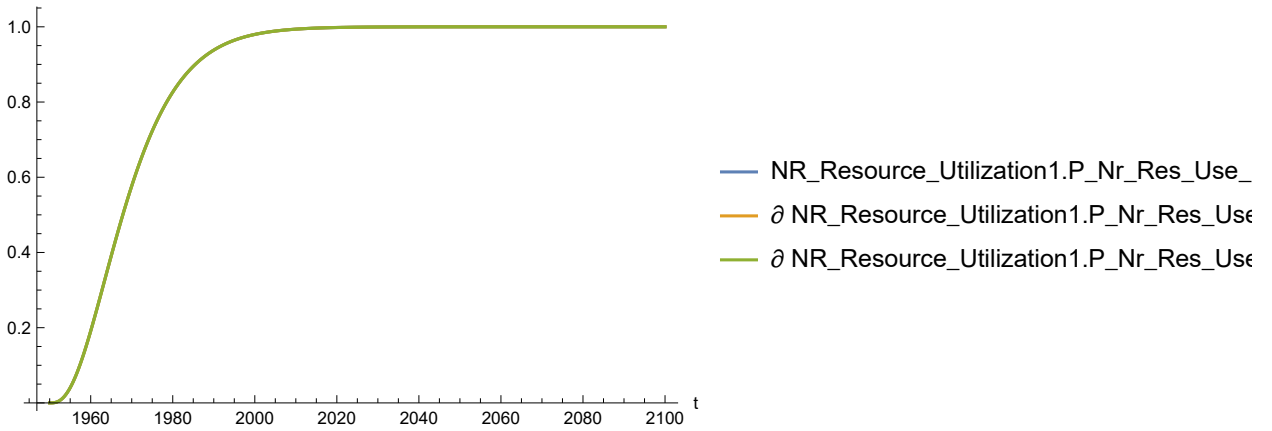
Out[213]=



In[214]:=

```
SystemModelPlot[simsensdata,
  {"NR_Resource_Utilization1.P_Nr_Res_Use_Fact_2.Smooth3.Integrator1.y",
   "Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[5]", percentvar}]
```

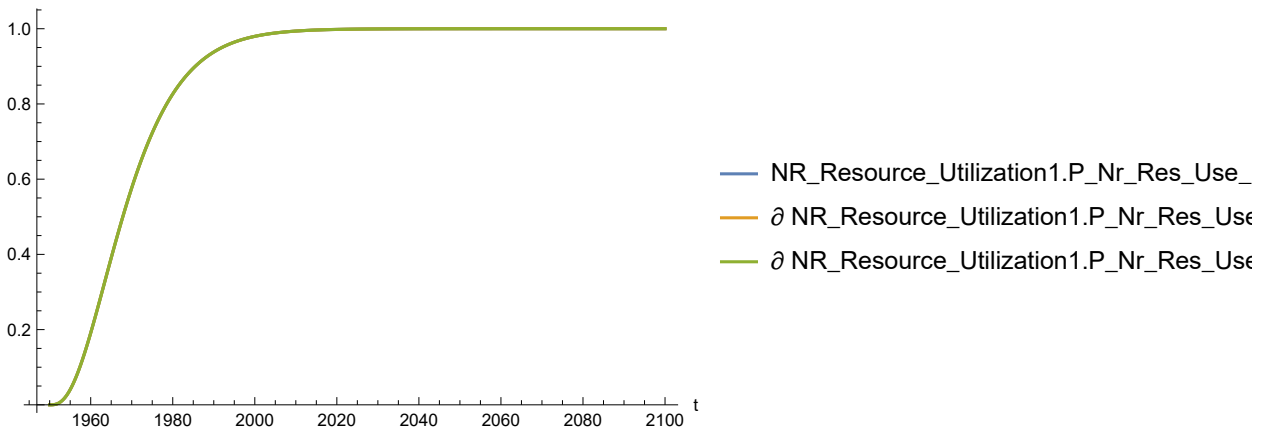
Out[214]=



In[215]:=

```
SystemModelPlot[simsensdata,
  {"NR_Resource_Utilization1.P_Nr_Res_Use_Fact_2.Smooth3.Integrator1.y",
   "Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[6]", percentvar}]
```

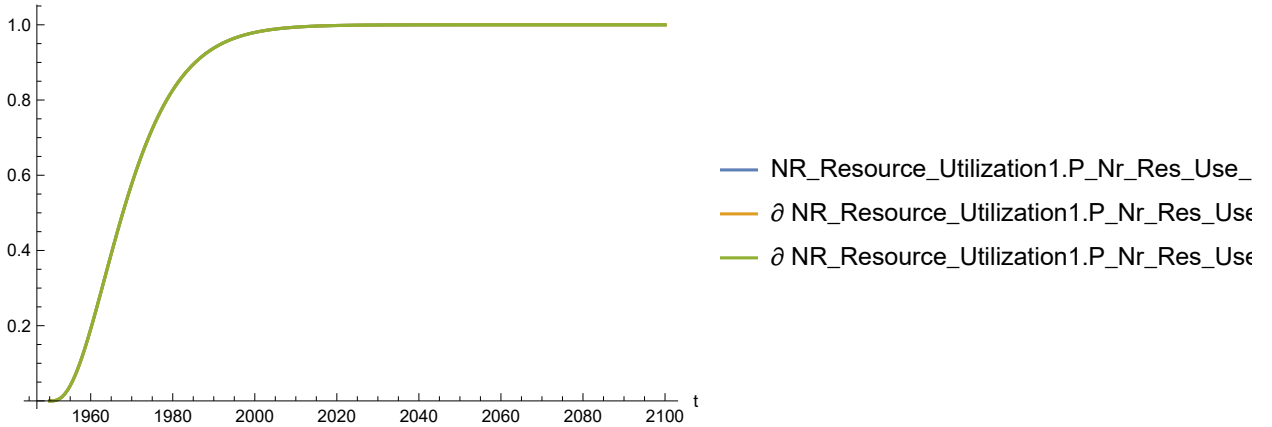
Out[215]=



In[216]:=

```
SystemModelPlot[simsensdata,
  {"NR_Resource_Utilization1.P_Nr_Res_Use_Fact_2.Smooth3.Integrator1.y",
   "Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[7]", percentvar}]
```

Out[216]=

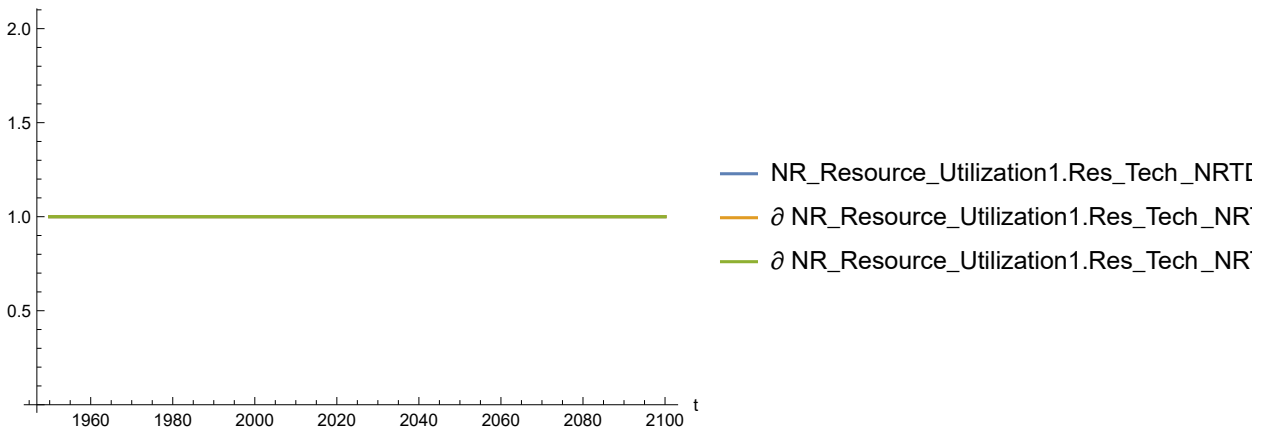


Plot the sensitivity of `NR_Resource_Utilization1.Res_Tech_NRTD.Integrator1.y` to `Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals`.

In[217]:=

```
SystemModelPlot[simsensdata, {"NR_Resource_Utilization1.Res_Tech_NRTD.Integrator1.y",
  "Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[1]", percentvar}]
```

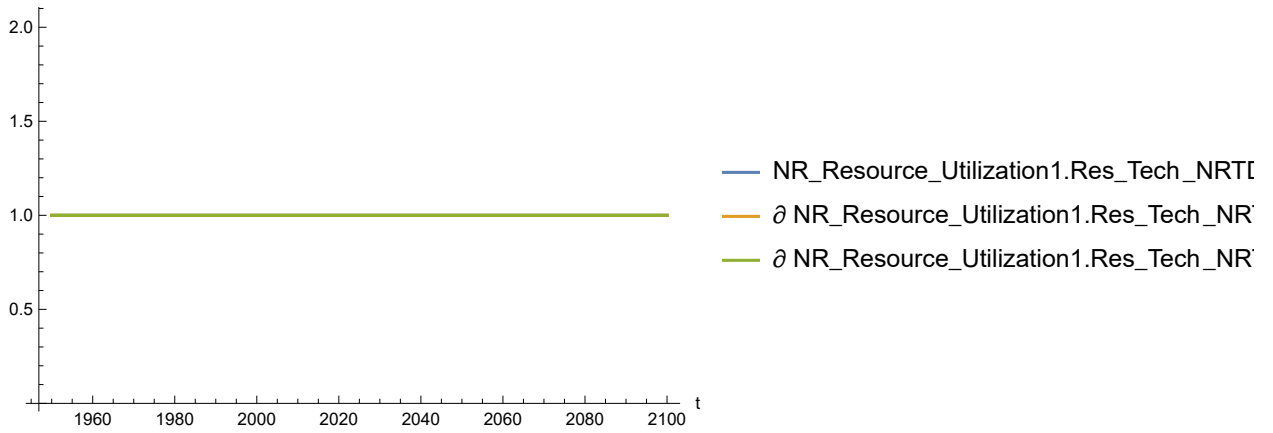
Out[217]=



In[218]:=

```
SystemModelPlot[simsensdata, {"NR_Resource_Utilization1.Res_Tech_NRTD.Integrator1.y",
"Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[2]", percentvar}]
```

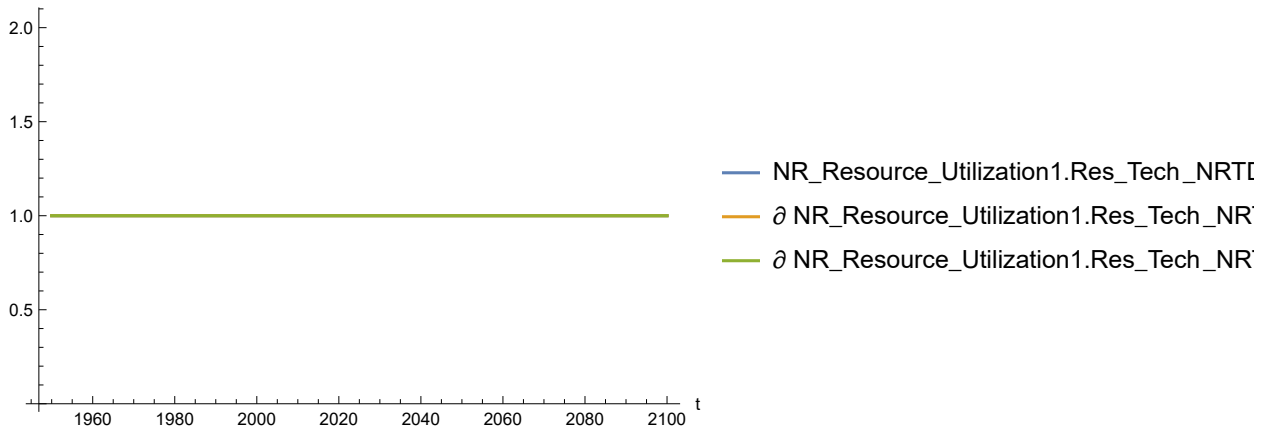
Out[218]=



In[219]:=

```
SystemModelPlot[simsensdata, {"NR_Resource_Utilization1.Res_Tech_NRTD.Integrator1.y",
"Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[3]", percentvar}]
```

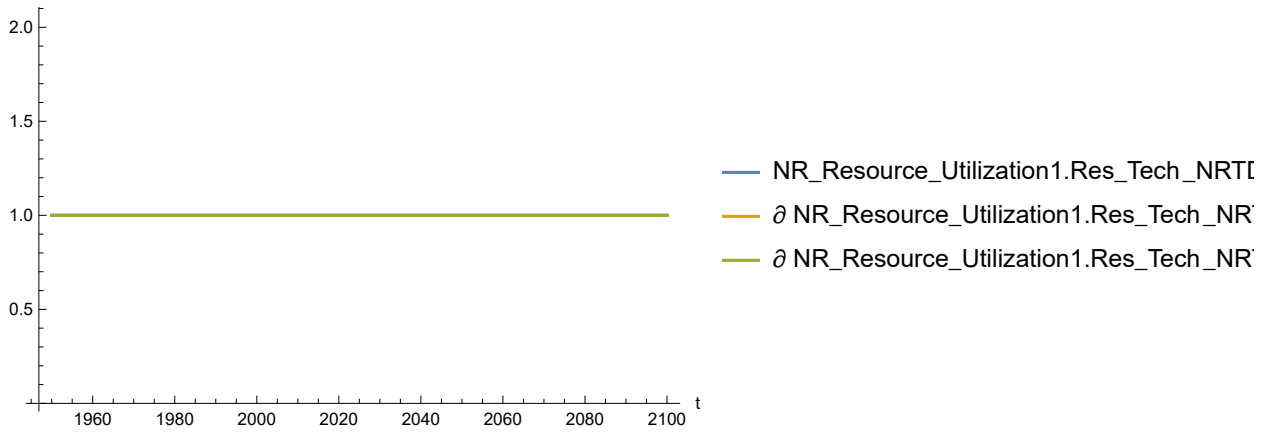
Out[219]=



In[220]:=

```
SystemModelPlot[simsensdata, {"NR_Resource_Utilization1.Res_Tech_NRTD.Integrator1.y",
"Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[4]", percentvar}]
```

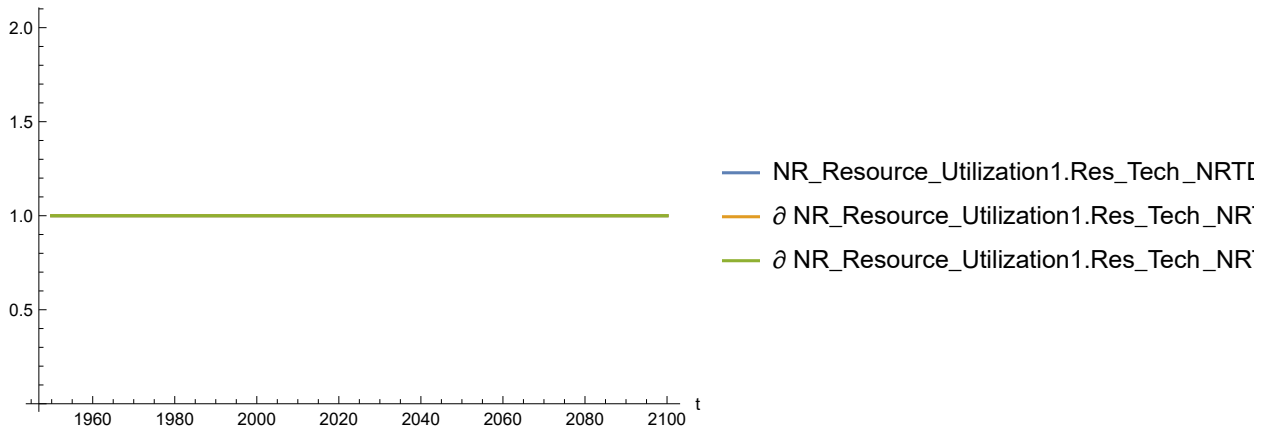
Out[220]=



In[221]:=

```
SystemModelPlot[simsensdata, {"NR_Resource_Utilization1.Res_Tech_NRTD.Integrator1.y",
"Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[5]", percentvar}]
```

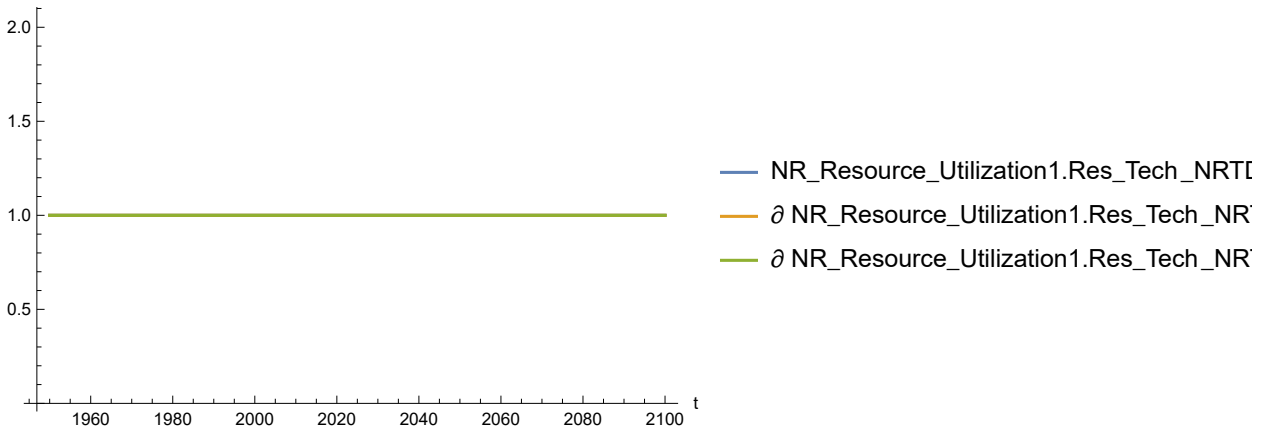
Out[221]=



In[222]:=

```
SystemModelPlot[simsensdata, {"NR_Resource_Utilization1.Res_Tech_NRTD.Integrator1.y",
"Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[6]", percentvar}]
```

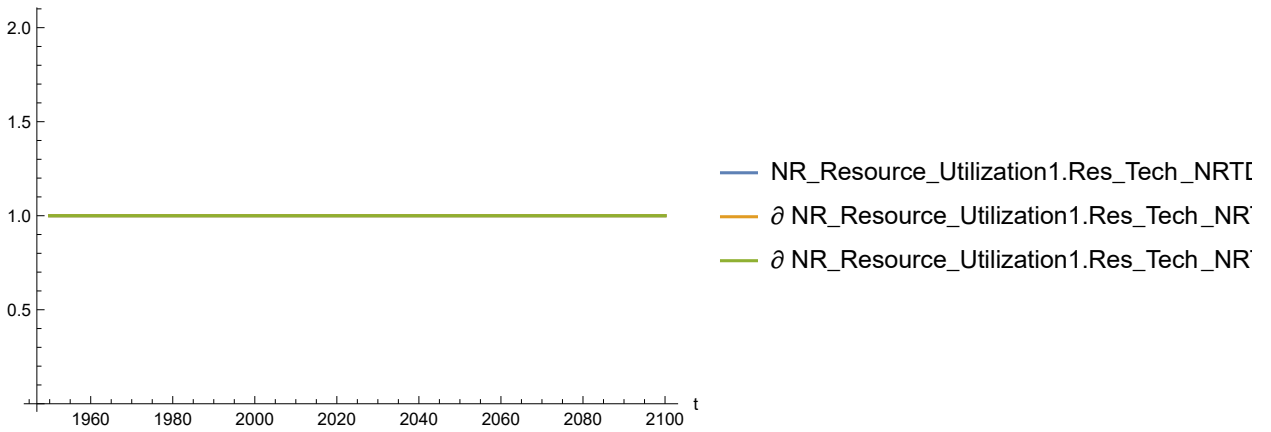
Out[222]=



In[223]:=

```
SystemModelPlot[simsensdata, {"NR_Resource_Utilization1.Res_Tech_NRTD.Integrator1.y",
"Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[7]", percentvar}]
```

Out[223]=

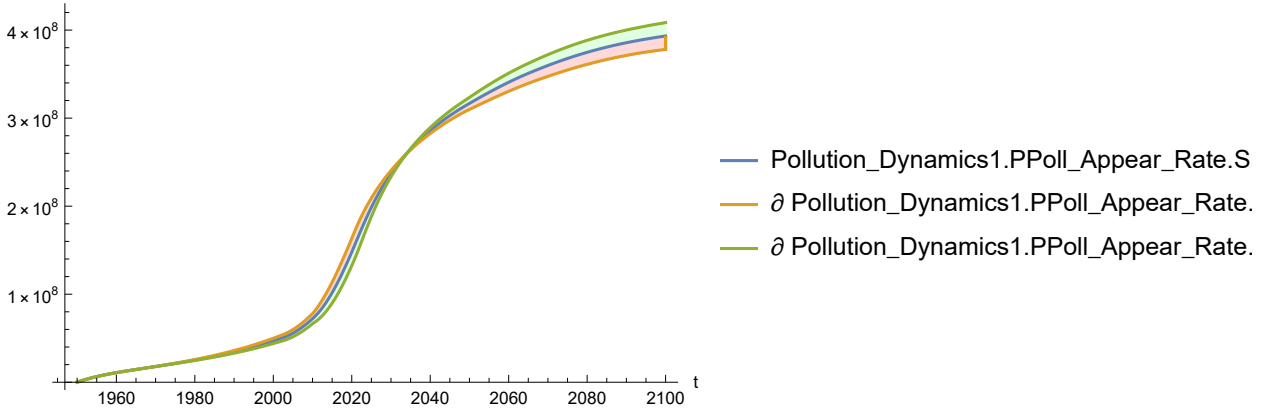


Plot the sensitivity of Pollution_Dynamics1.PPoll_Appear_Rate.Smooth1.Integrator1.y to Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals.

In[224]:=

```
SystemModelPlot[simsensdata,
  {"Pollution_Dynamics1.PPoll_Appear_Rate.Smooth1.Integrator1.y",
   "Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[1]", percentvar}]
```

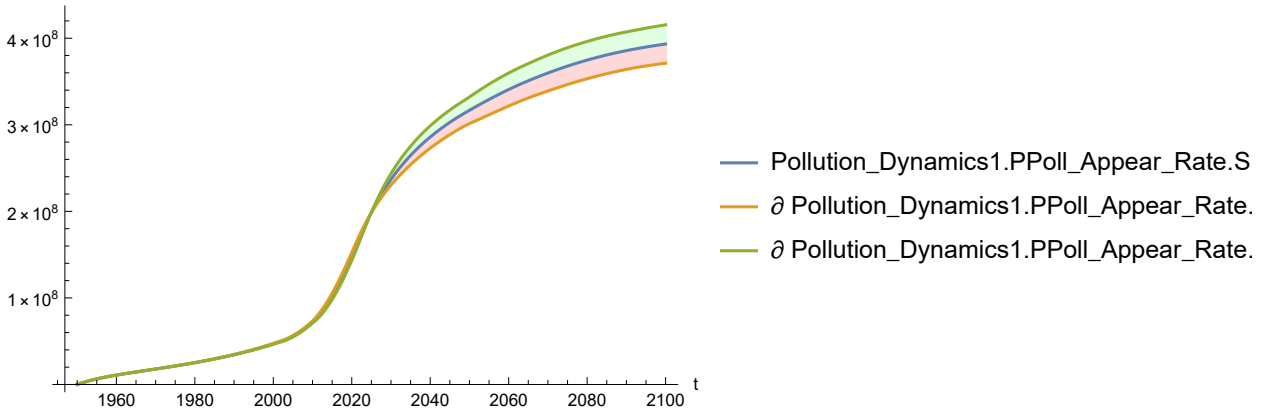
Out[224]=



In[225]:=

```
SystemModelPlot[simsensdata,
  {"Pollution_Dynamics1.PPoll_Appear_Rate.Smooth1.Integrator1.y",
   "Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[2]", percentvar}]
```

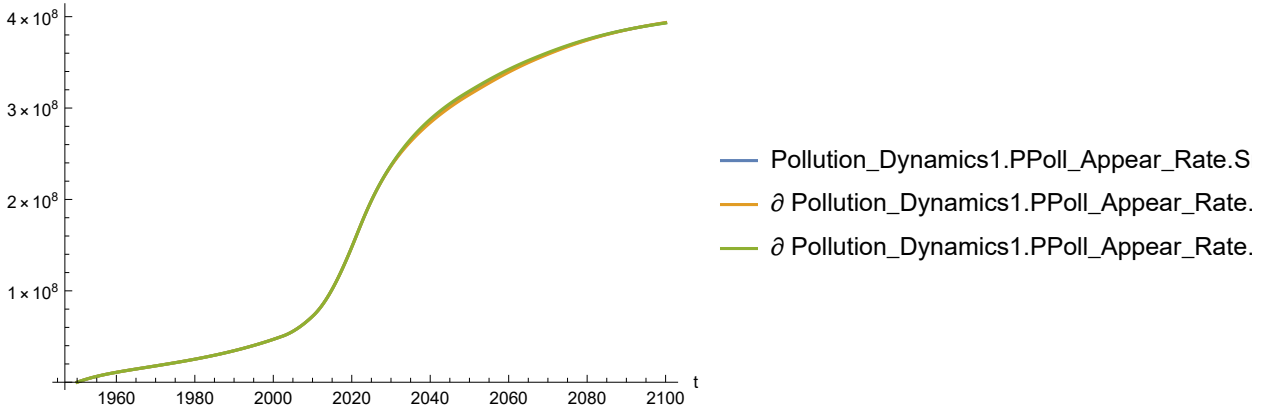
Out[225]=



In[226]:=

```
SystemModelPlot[simsensdata,
  {"Pollution_Dynamics1.PPoll_Appear_Rate.Smooth1.Integrator1.y",
   "Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[3]", percentvar}]
```

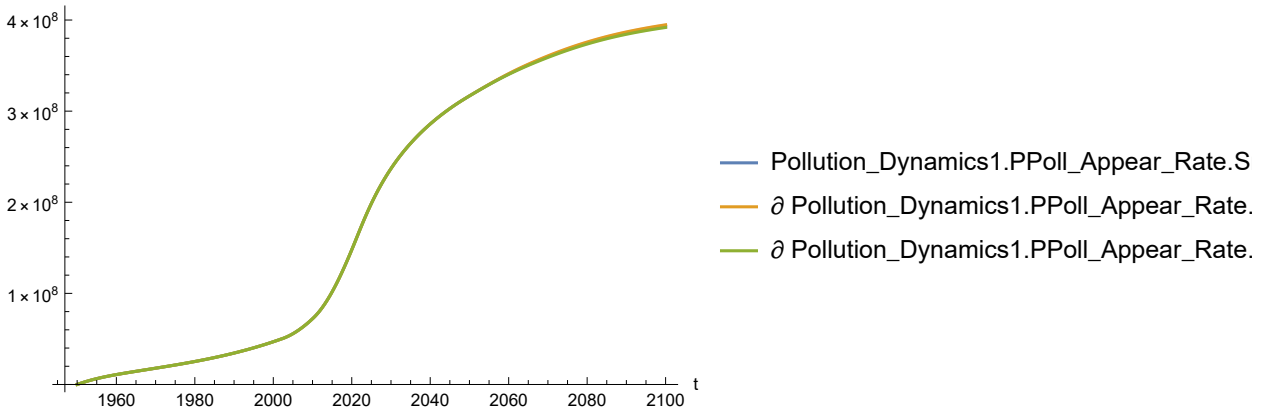
Out[226]=



In[227]:=

```
SystemModelPlot[simsensdata,
  {"Pollution_Dynamics1.PPoll_Appear_Rate.Smooth1.Integrator1.y",
   "Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[4]", percentvar}]
```

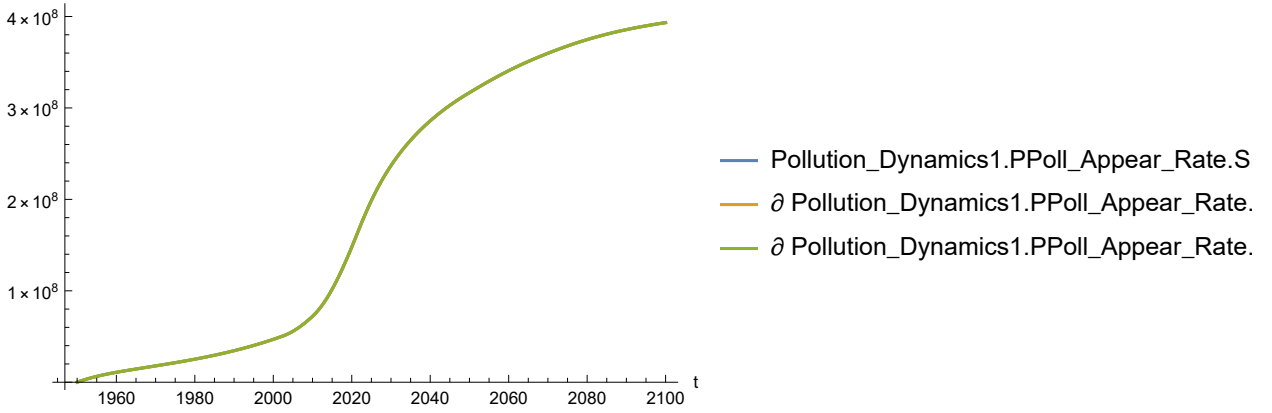
Out[227]=



In[228]:=

```
SystemModelPlot[simsensdata,
  {"Pollution_Dynamics1.PPoll_Appear_Rate.Smooth1.Integrator1.y",
   "Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[5]", percentvar}]
```

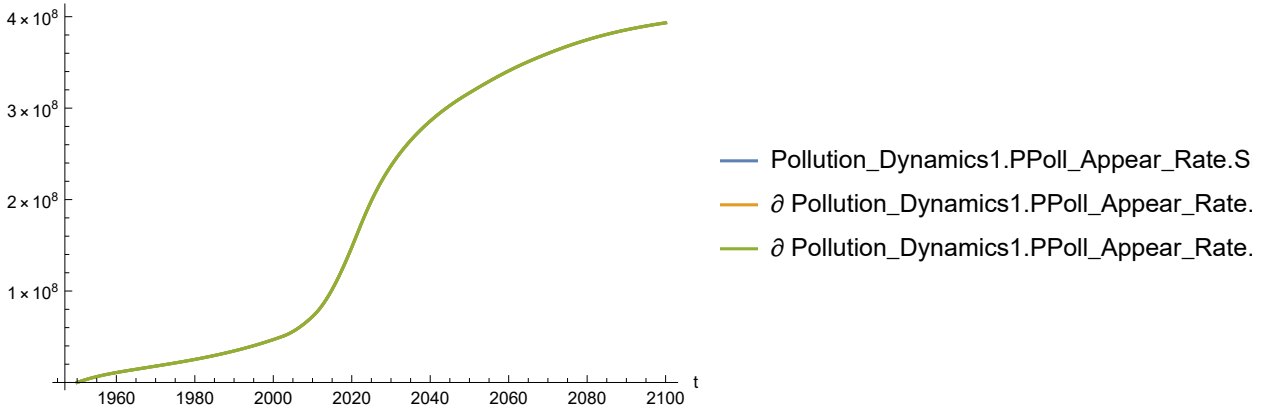
Out[228]=



In[229]:=

```
SystemModelPlot[simsensdata,
  {"Pollution_Dynamics1.PPoll_Appear_Rate.Smooth1.Integrator1.y",
   "Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[6]", percentvar}]
```

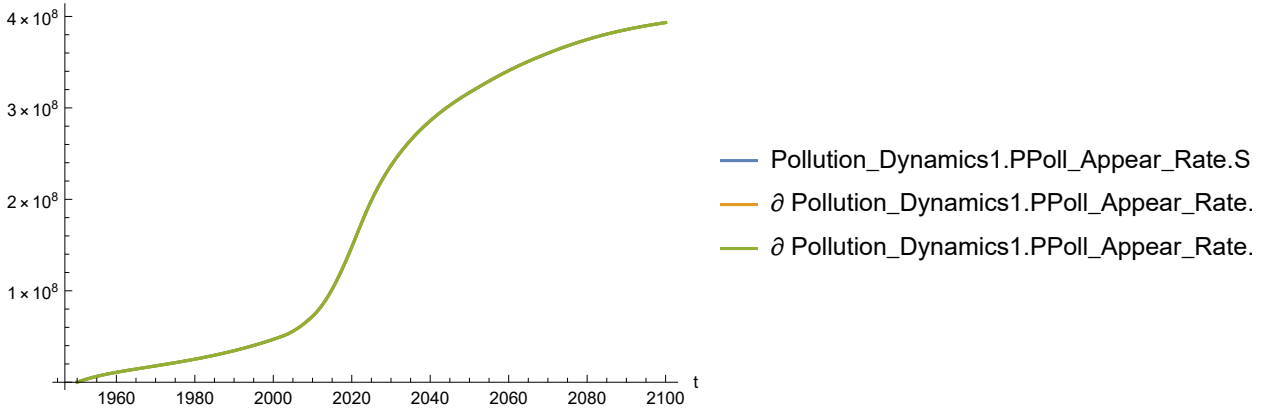
Out[229]=



In[230]:=

```
SystemModelPlot[simsensdata,
  {"Pollution_Dynamics1.PPoll_Appear_Rate.Smooth1.Integrator1.y",
   "Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[7]", percentvar}]
```

Out[230]=

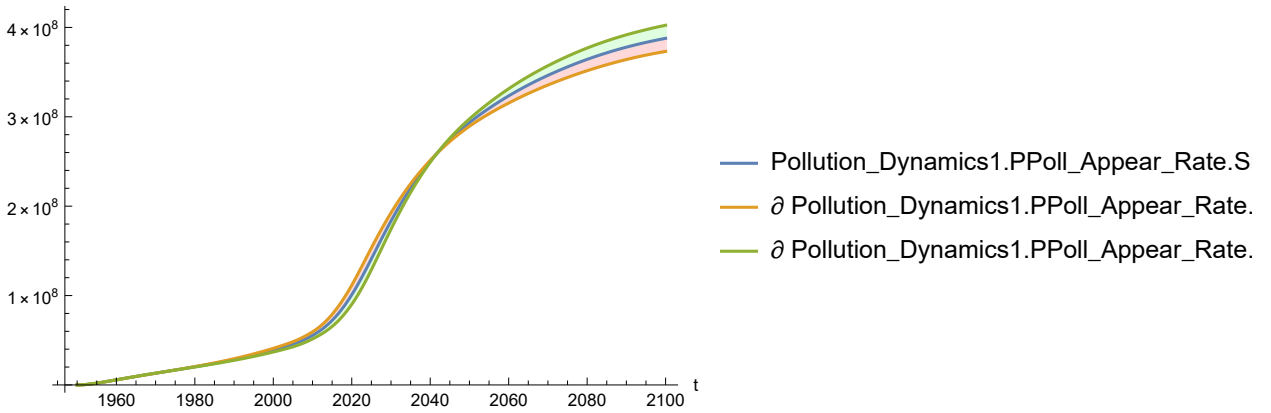


Plot the sensitivity of Pollution_Dynamics1.PPoll_Appear_Rate.Smooth2.Integrator1.y to Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals.

In[231]:=

```
SystemModelPlot[simsensdata,
  {"Pollution_Dynamics1.PPoll_Appear_Rate.Smooth2.Integrator1.y",
   "Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[1]", percentvar}]
```

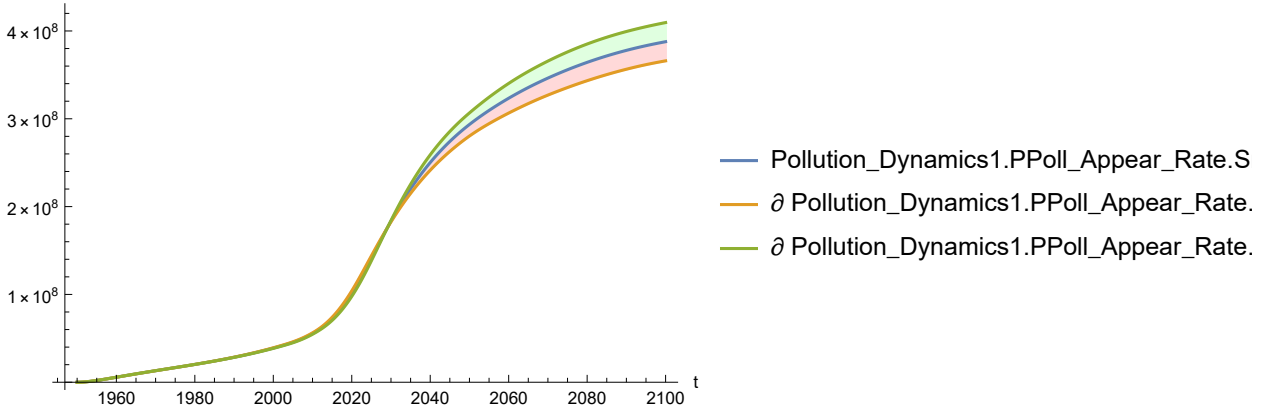
Out[231]=



In[232]:=

```
SystemModelPlot[simsensdata,
  {"Pollution_Dynamics1.PPoll_Appear_Rate.Smooth2.Integrator1.y",
   "Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[2]", percentvar}]
```

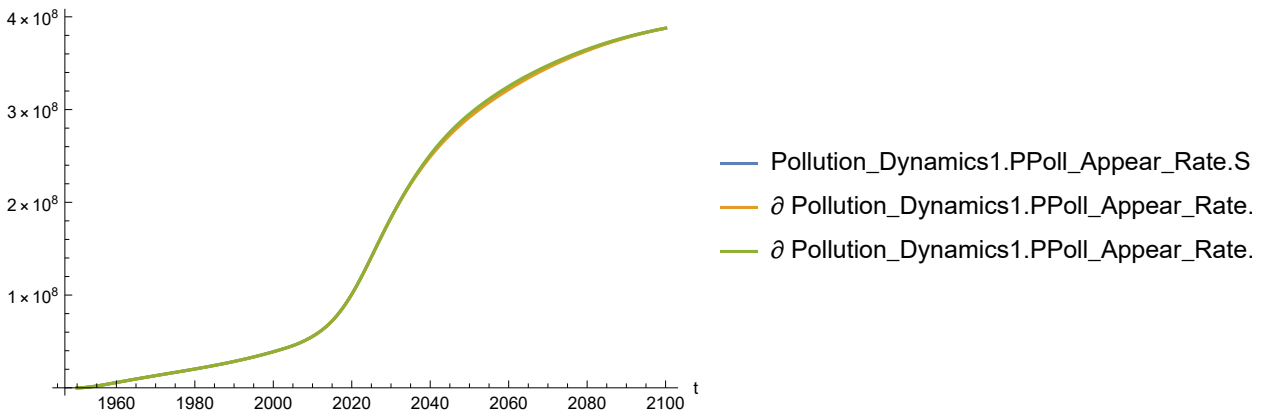
Out[232]=



In[233]:=

```
SystemModelPlot[simsensdata,
  {"Pollution_Dynamics1.PPoll_Appear_Rate.Smooth2.Integrator1.y",
   "Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[3]", percentvar}]
```

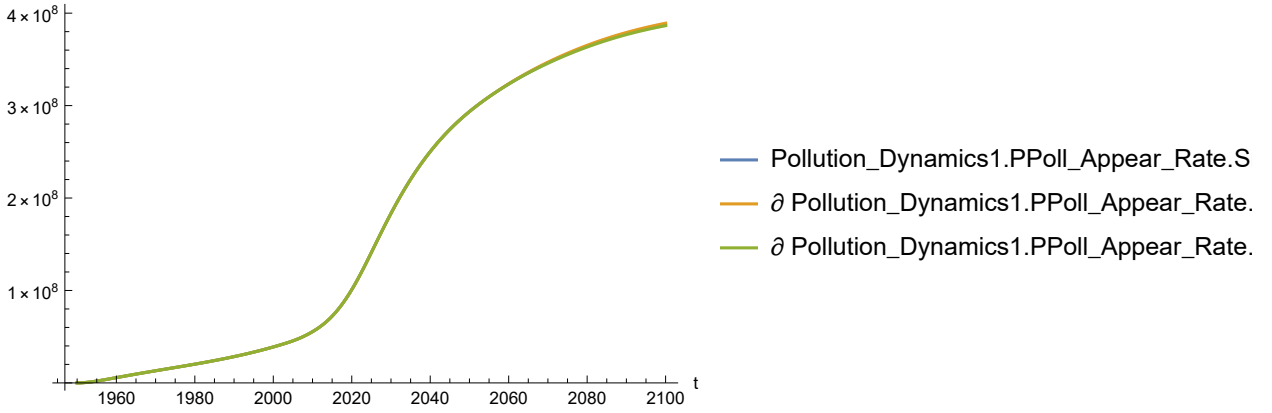
Out[233]=



In[234]:=

```
SystemModelPlot[simsensdata,
  {"Pollution_Dynamics1.PPoll_Appear_Rate.Smooth2.Integrator1.y",
   "Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[4]", percentvar}]
```

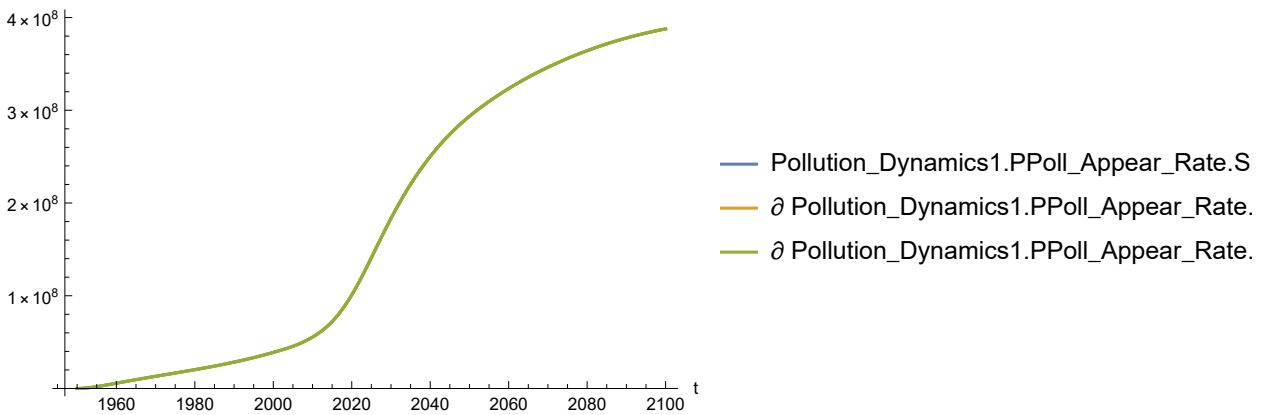
Out[234]=



In[235]:=

```
SystemModelPlot[simsensdata,
  {"Pollution_Dynamics1.PPoll_Appear_Rate.Smooth2.Integrator1.y",
   "Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[5]", percentvar}]
```

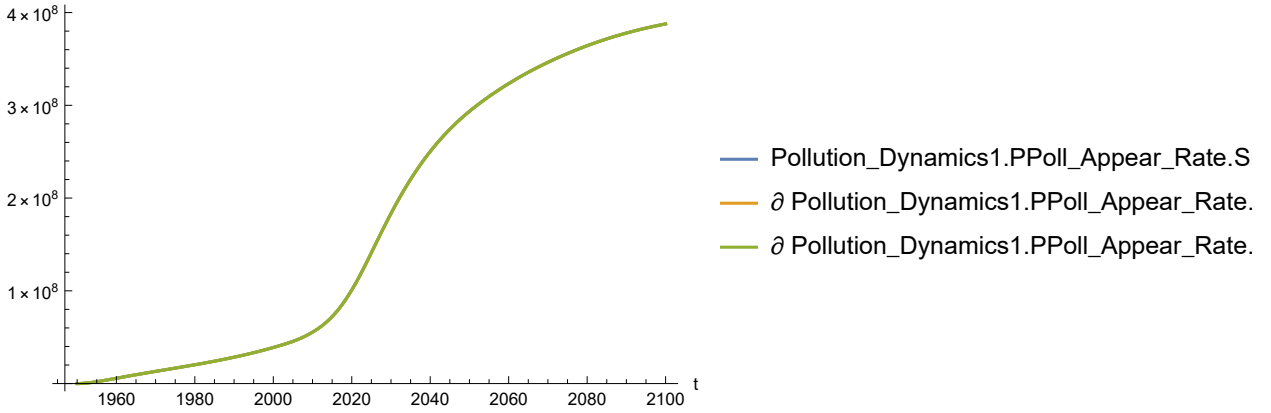
Out[235]=



In[236]:=

```
SystemModelPlot[simsensdata,
  {"Pollution_Dynamics1.PPoll_Appear_Rate.Smooth2.Integrator1.y",
   "Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[6]", percentvar}]
```

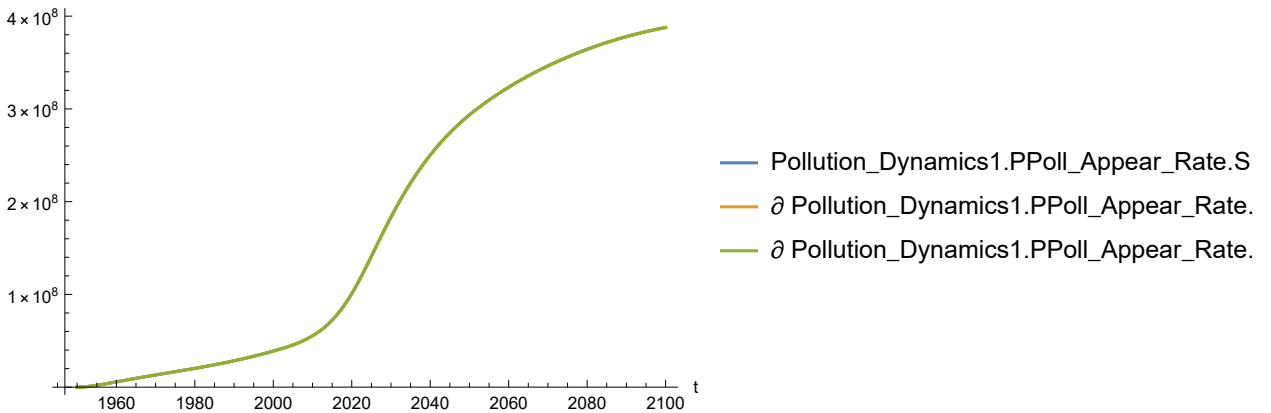
Out[236]=



In[237]:=

```
SystemModelPlot[simsensdata,
  {"Pollution_Dynamics1.PPoll_Appear_Rate.Smooth2.Integrator1.y",
   "Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[7]", percentvar}]
```

Out[237]=

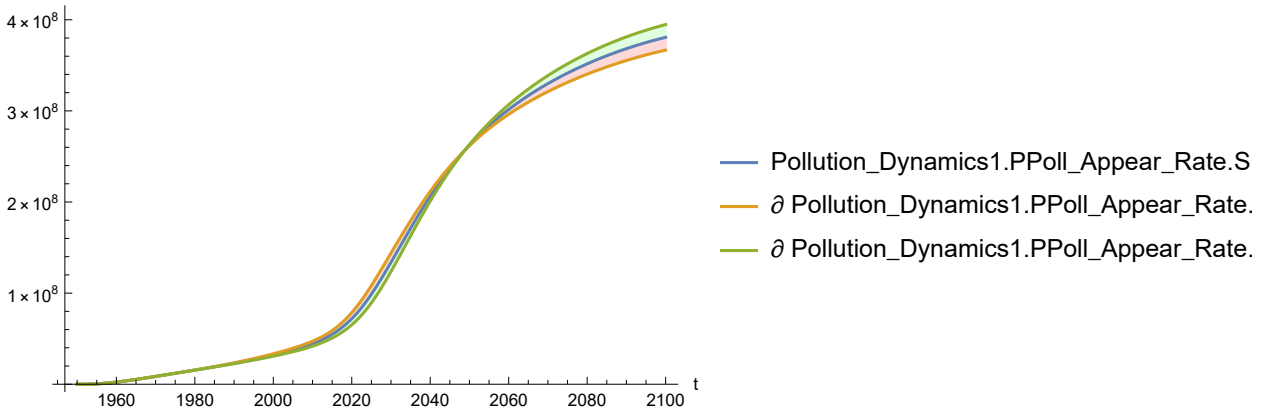


Plot the sensitivity of Pollution_Dynamics1.PPoll_Appear_Rate.Smooth3.Integrator1.y to Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals.

In[238]:=

```
SystemModelPlot[simsensdata,
  {"Pollution_Dynamics1.PPoll_Appear_Rate.Smooth3.Integrator1.y",
   "Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[1]", percentvar}]
```

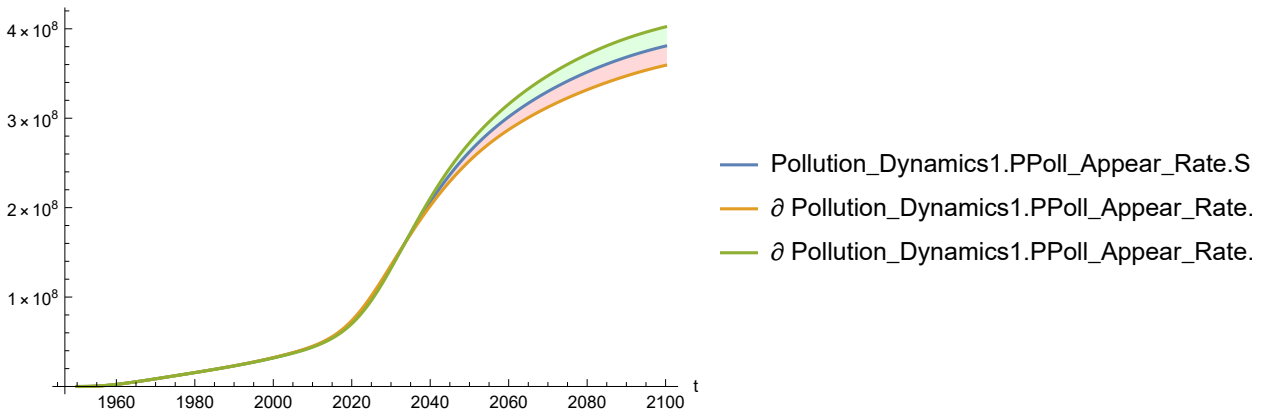
Out[238]=



In[239]:=

```
SystemModelPlot[simsensdata,
  {"Pollution_Dynamics1.PPoll_Appear_Rate.Smooth3.Integrator1.y",
   "Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[2]", percentvar}]
```

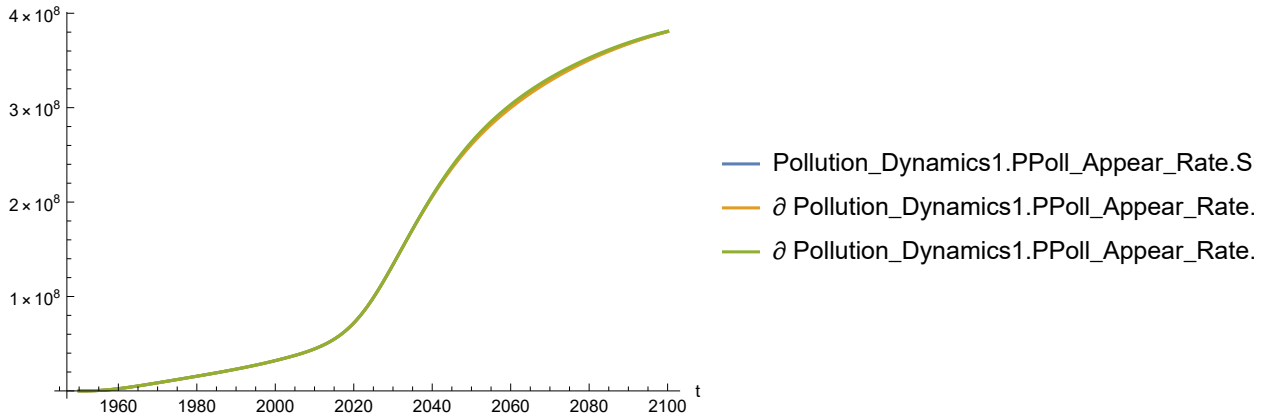
Out[239]=



In[240]:=

```
SystemModelPlot[simsensdata,
  {"Pollution_Dynamics1.PPoll_Appear_Rate.Smooth3.Integrator1.y",
   "Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[3]", percentvar}]
```

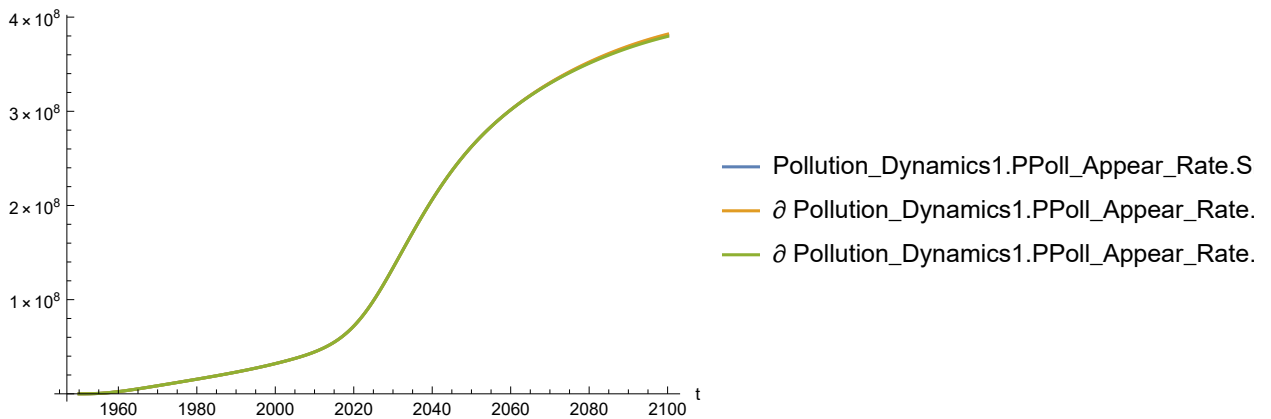
Out[240]=



In[241]:=

```
SystemModelPlot[simsensdata,
  {"Pollution_Dynamics1.PPoll_Appear_Rate.Smooth3.Integrator1.y",
   "Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[4]", percentvar}]
```

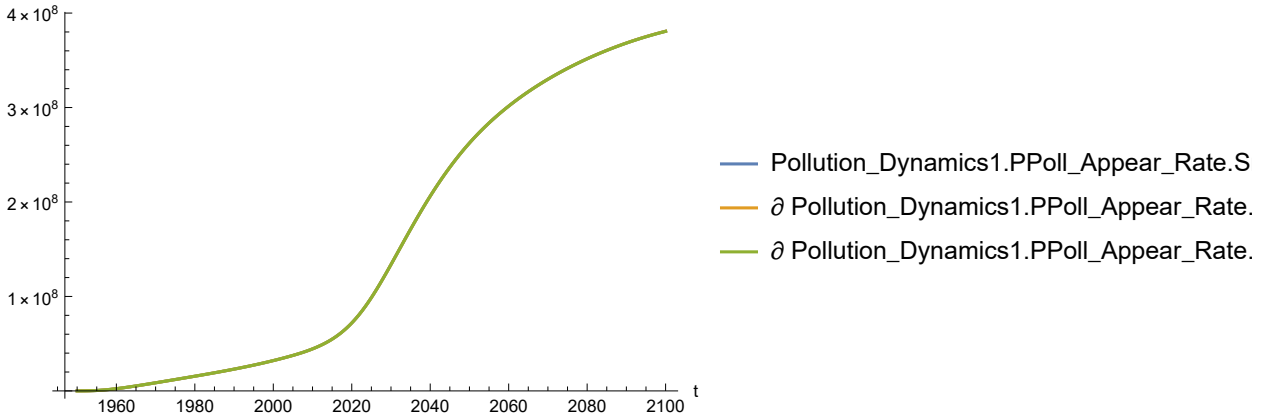
Out[241]=



In[242]:=

```
SystemModelPlot[simsensdata,
  {"Pollution_Dynamics1.PPoll_Appear_Rate.Smooth3.Integrator1.y",
   "Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[5]", percentvar}]
```

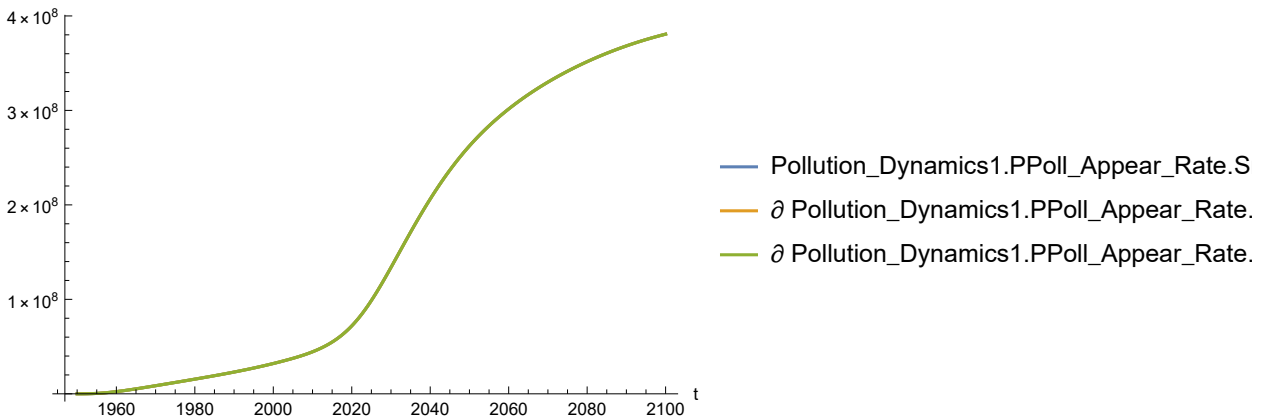
Out[242]=



In[243]:=

```
SystemModelPlot[simsensdata,
  {"Pollution_Dynamics1.PPoll_Appear_Rate.Smooth3.Integrator1.y",
   "Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[6]", percentvar}]
```

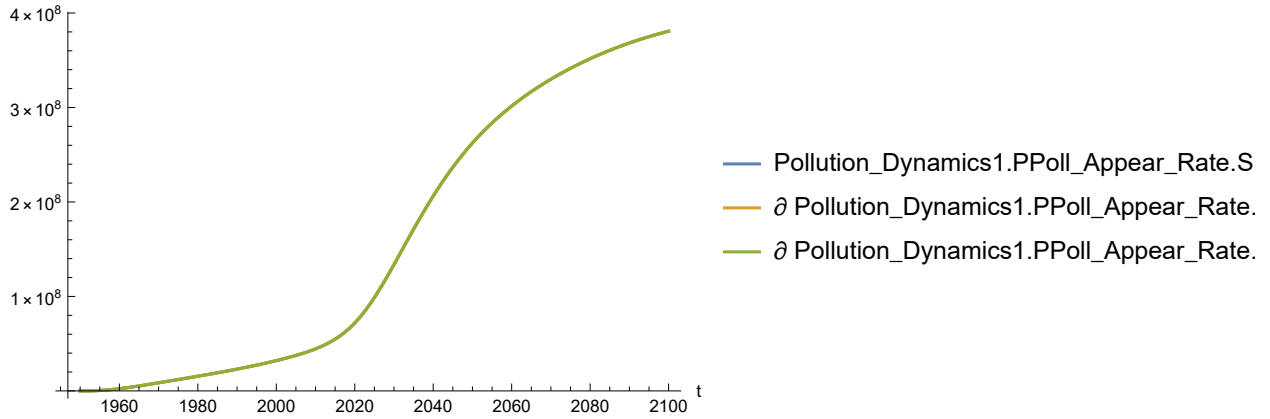
Out[243]=



In[244]:=

```
SystemModelPlot[simsensdata,
  {"Pollution_Dynamics1.PPoll_Appear_Rate.Smooth3.Integrator1.y",
   "Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[7]", percentvar}]
```

Out[244]=

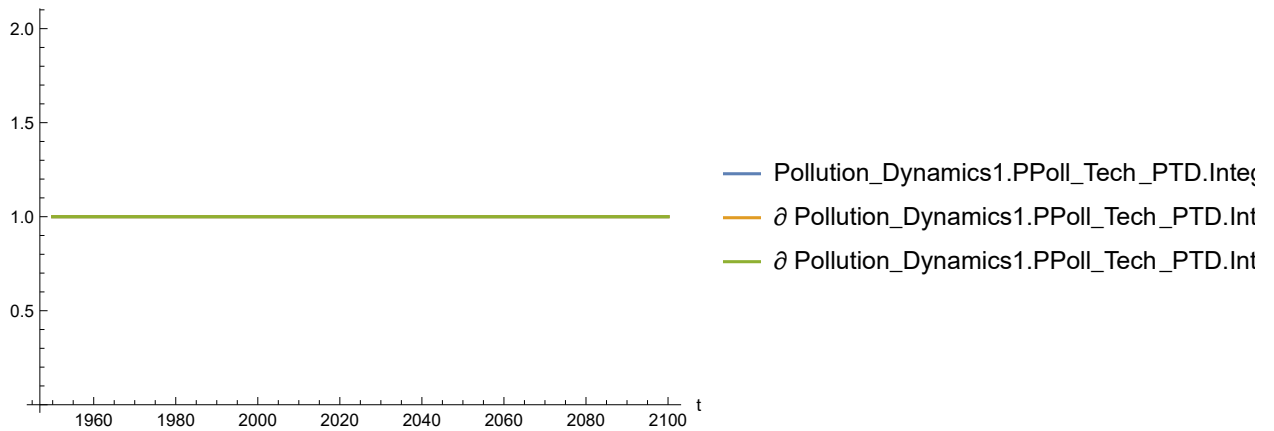


Plot the sensitivity of Pollution_Dynamics1.PPoll_Tech_PTD.Integrator1.y to Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals.

In[245]:=

```
SystemModelPlot[simsensdata, {"Pollution_Dynamics1.PPoll_Tech_PTD.Integrator1.y",
  "Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[1]", percentvar}]
```

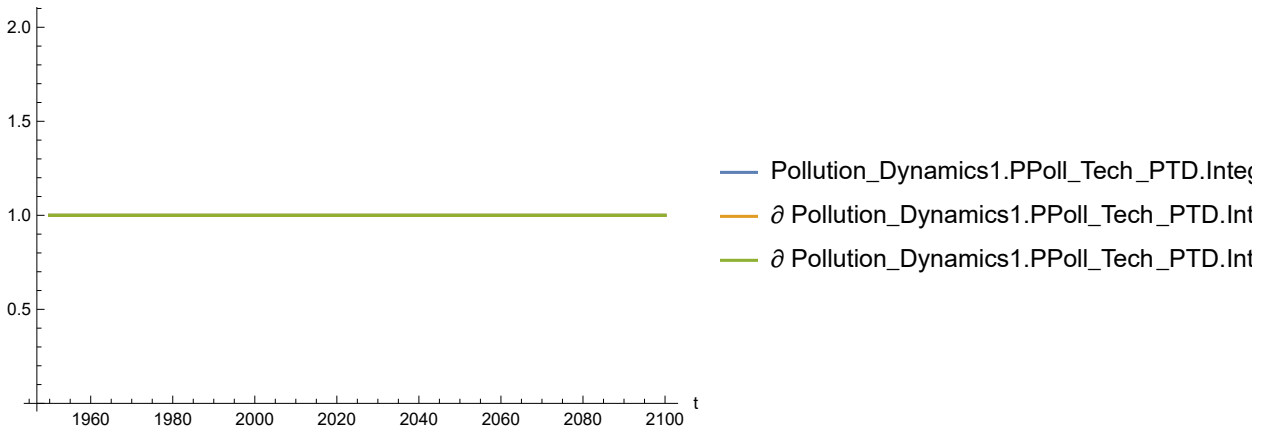
Out[245]=



In[246]:=

```
SystemModelPlot[simsensdata, {"Pollution_Dynamics1.PPoll_Tech_PTD.Integrator1.y",
"Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[2]", percentvar}]
```

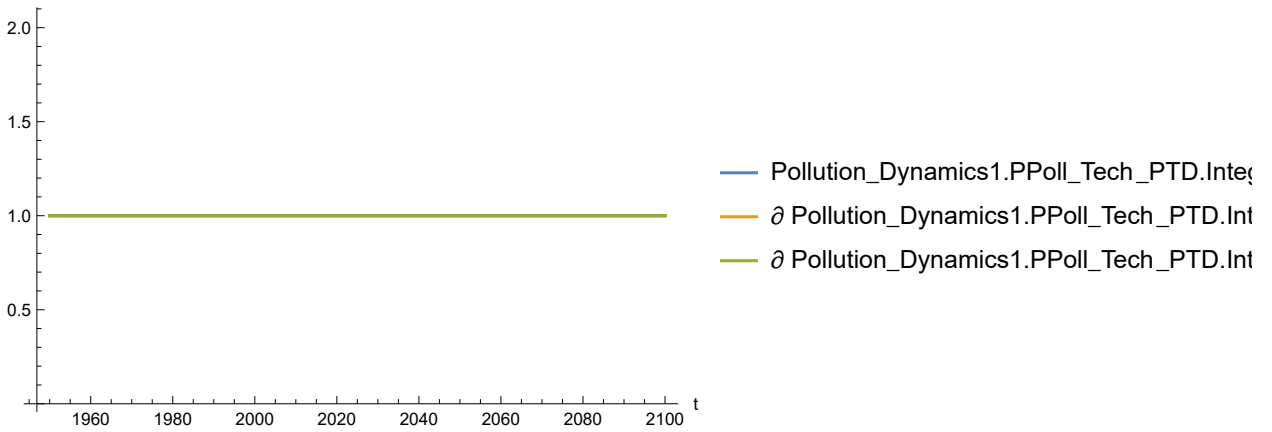
Out[246]=



In[247]:=

```
SystemModelPlot[simsensdata, {"Pollution_Dynamics1.PPoll_Tech_PTD.Integrator1.y",
"Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[3]", percentvar}]
```

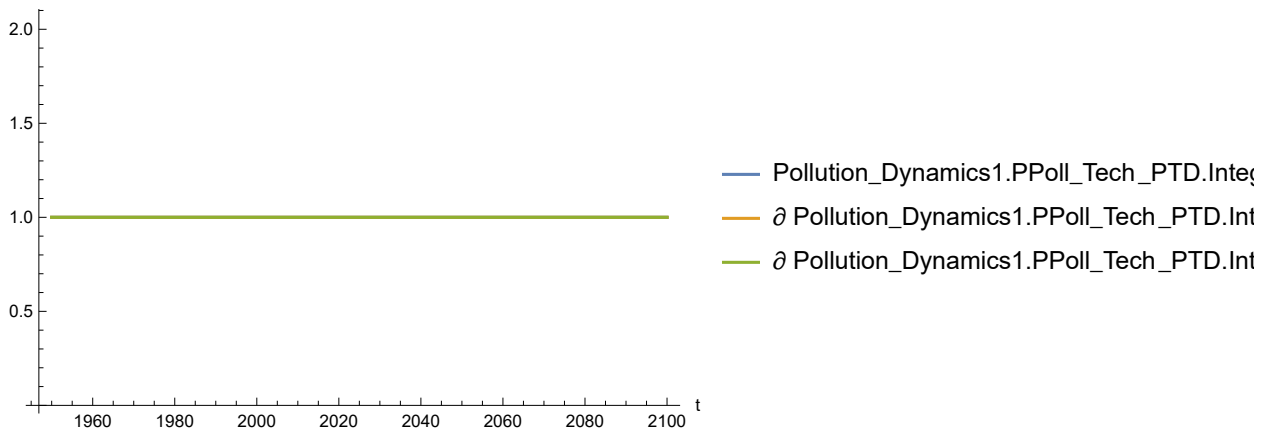
Out[247]=



In[248]:=

```
SystemModelPlot[simsensdata, {"Pollution_Dynamics1.PPoll_Tech_PTD.Integrator1.y",
"Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[4]", percentvar}]
```

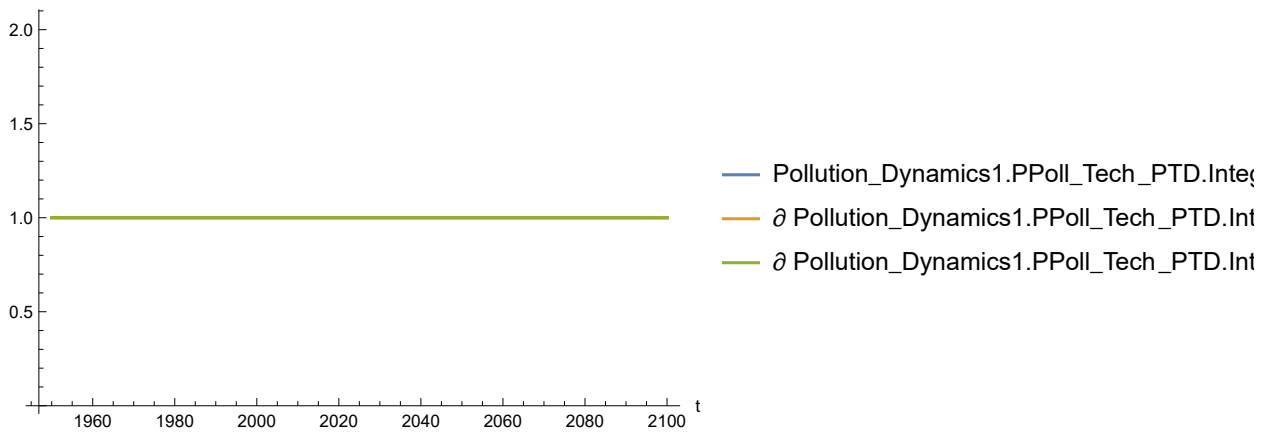
Out[248]=



In[249]:=

```
SystemModelPlot[simsensdata, {"Pollution_Dynamics1.PPoll_Tech_PTD.Integrator1.y",
"Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[5]", percentvar}]
```

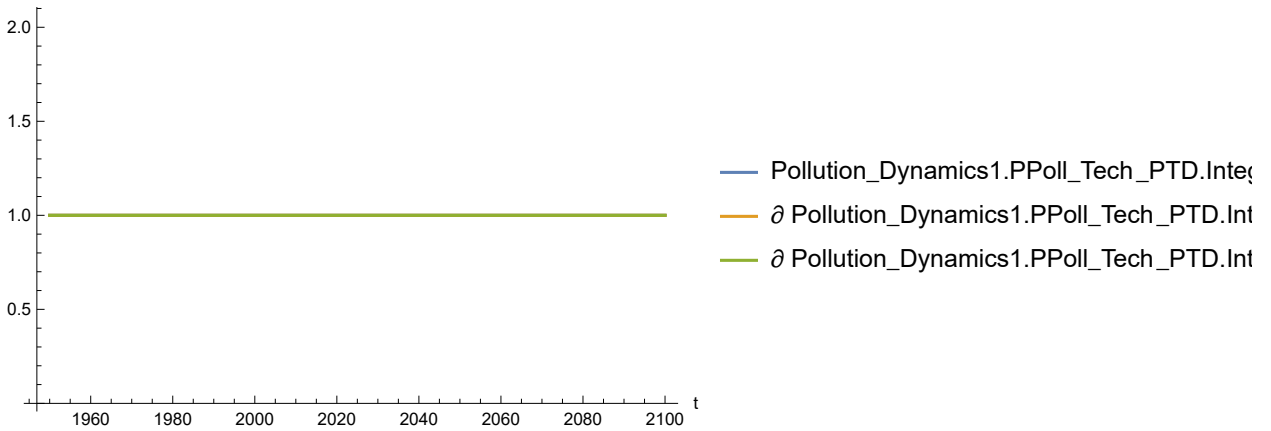
Out[249]=



In[250]:=

```
SystemModelPlot[simsensdata, {"Pollution_Dynamics1.PPoll_Tech_PTD.Integrator1.y",
"Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[6]", percentvar}]
```

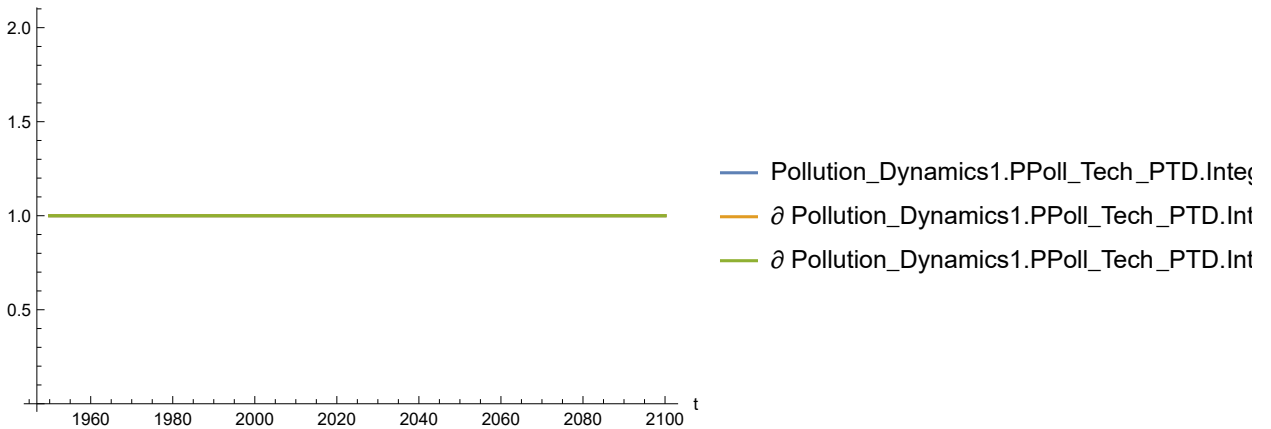
Out[250]=



In[251]:=

```
SystemModelPlot[simsensdata, {"Pollution_Dynamics1.PPoll_Tech_PTD.Integrator1.y",
"Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[7]", percentvar}]
```

Out[251]=

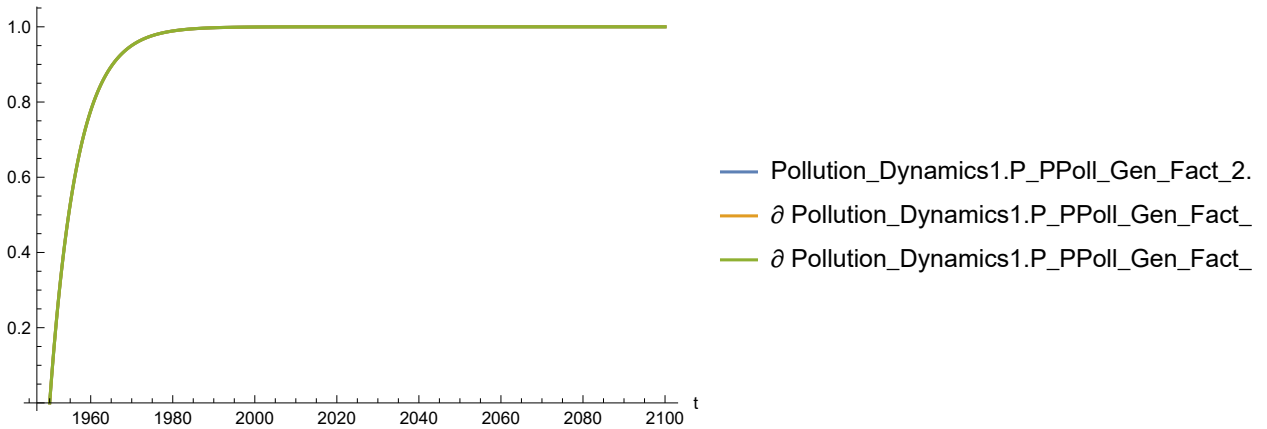


Plot the sensitivity of Pollution_Dynamics1.P_PPoll_Gen_Fact_2.Smooth1.Integrator1.y to Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals.

In[252]:=

```
SystemModelPlot[simsensdata,
  {"Pollution_Dynamics1.P_PPoll_Gen_Fact_2.Smooth1.Integrator1.y",
   "Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[1]", percentvar}]
```

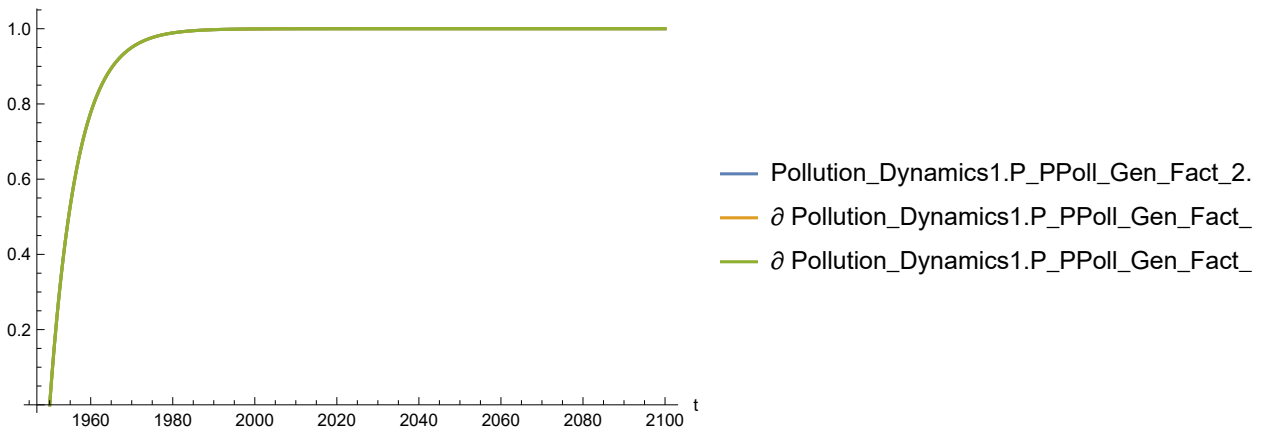
Out[252]=



In[253]:=

```
SystemModelPlot[simsensdata,
  {"Pollution_Dynamics1.P_PPoll_Gen_Fact_2.Smooth1.Integrator1.y",
   "Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[2]", percentvar}]
```

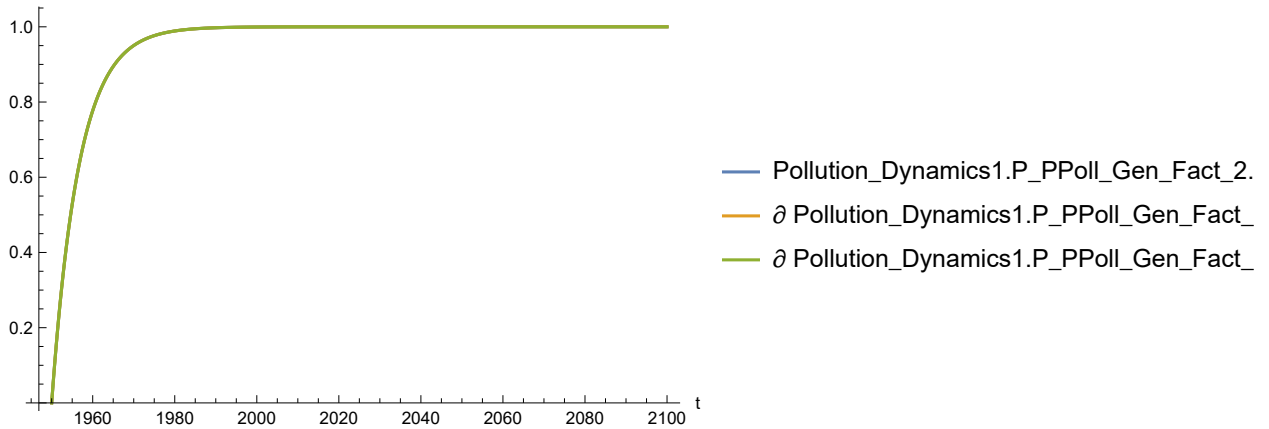
Out[253]=



In[254]:=

```
SystemModelPlot[simsensdata,
  {"Pollution_Dynamics1.P_PPoll_Gen_Fact_2.Smooth1.Integrator1.y",
   "Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[3]", percentvar}]
```

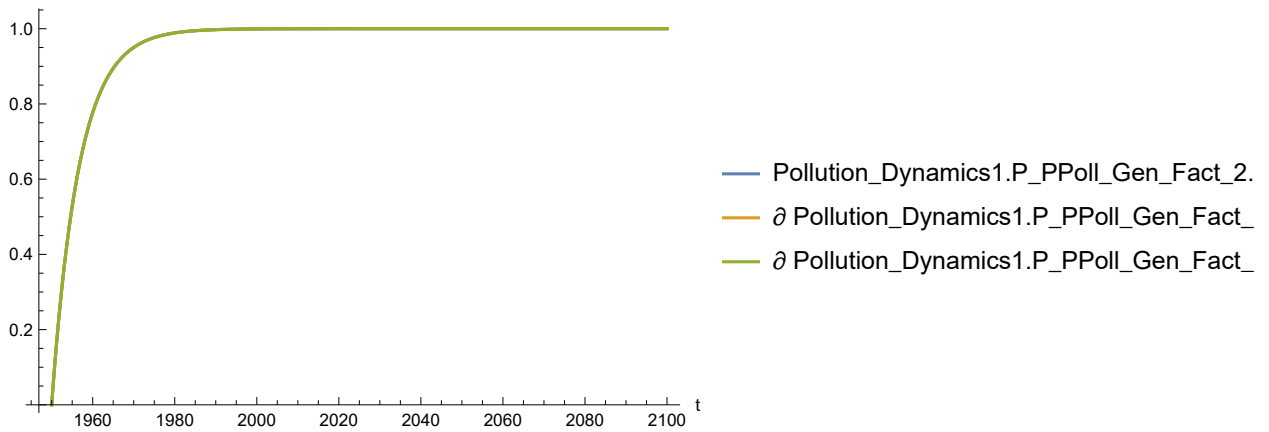
Out[254]=



In[255]:=

```
SystemModelPlot[simsensdata,
  {"Pollution_Dynamics1.P_PPoll_Gen_Fact_2.Smooth1.Integrator1.y",
   "Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[4]", percentvar}]
```

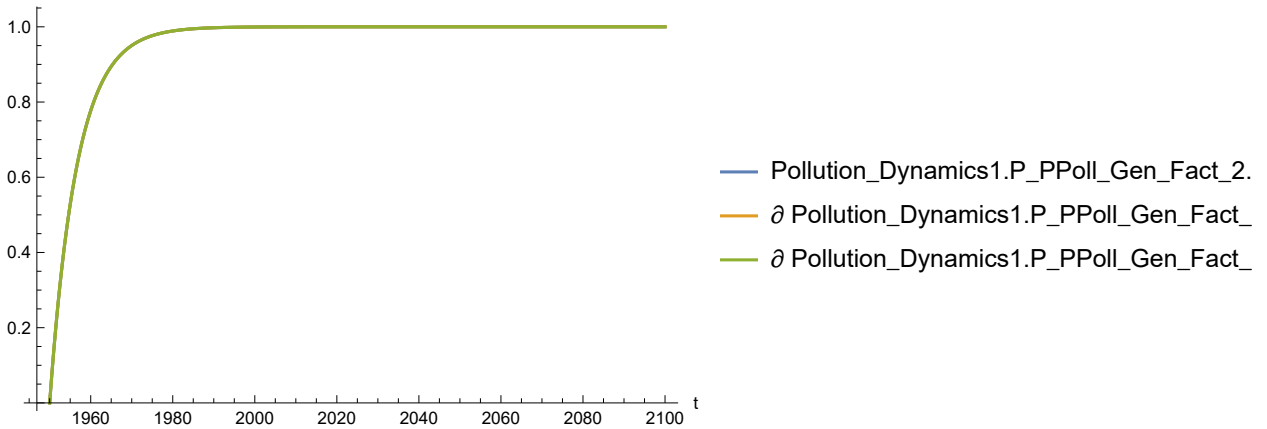
Out[255]=



In[256]:=

```
SystemModelPlot[simsensdata,
  {"Pollution_Dynamics1.P_PPoll_Gen_Fact_2.Smooth1.Integrator1.y",
   "Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[5]", percentvar}]
```

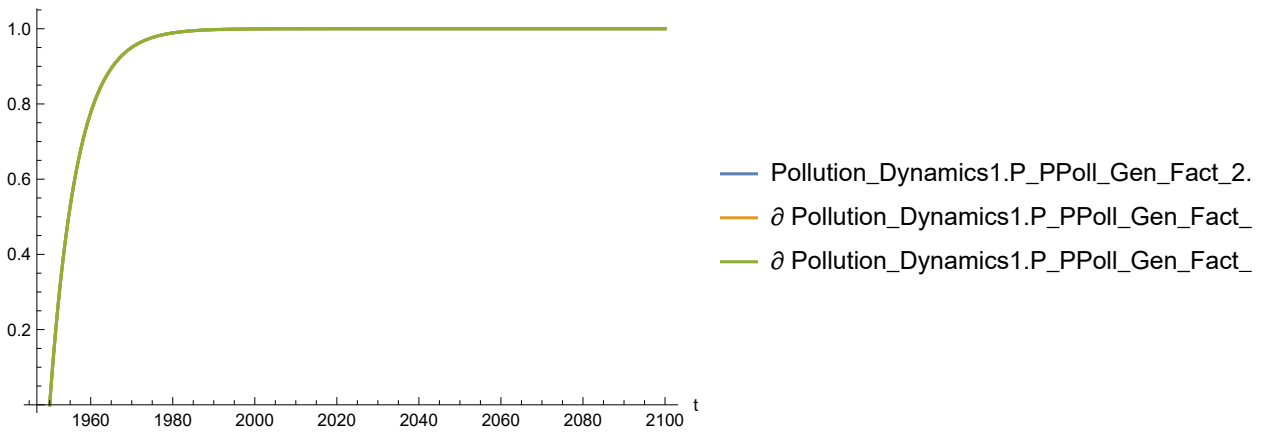
Out[256]=



In[257]:=

```
SystemModelPlot[simsensdata,
  {"Pollution_Dynamics1.P_PPoll_Gen_Fact_2.Smooth1.Integrator1.y",
   "Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[6]", percentvar}]
```

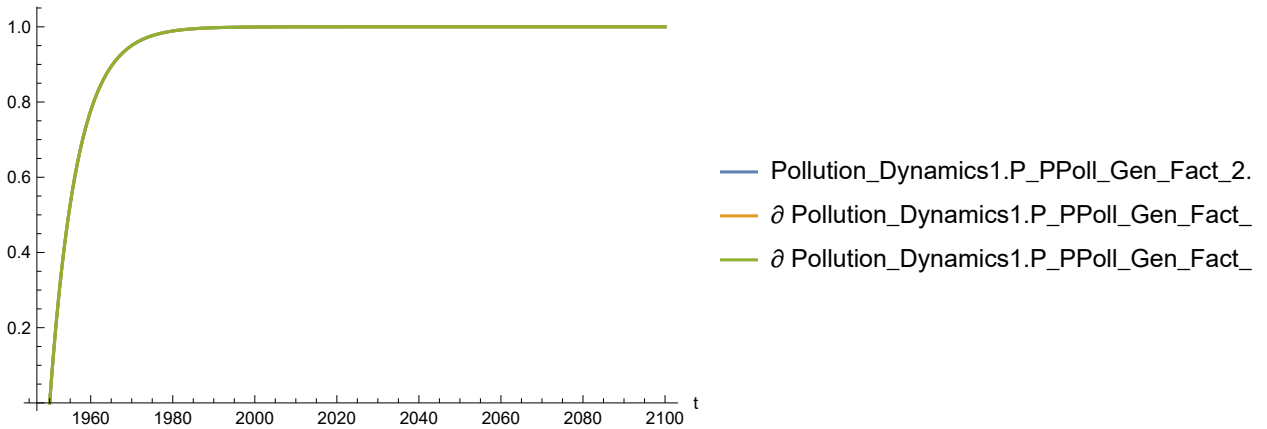
Out[257]=



In[258]:=

```
SystemModelPlot[simsensdata,
  {"Pollution_Dynamics1.P_PPoll_Gen_Fact_2.Smooth1.Integrator1.y",
   "Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[7]", percentvar}]]
```

Out[258]=

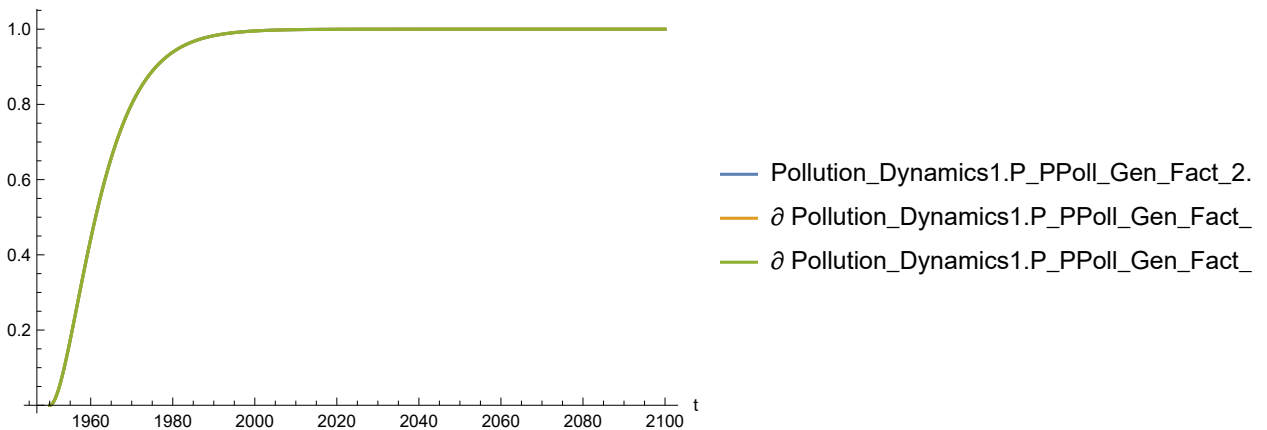


Plot the sensitivity of Pollution_Dynamics1.P_PPoll_Gen_Fact_2.Smooth2.Integrator1.y to Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals.

In[259]:=

```
SystemModelPlot[simsensdata,
  {"Pollution_Dynamics1.P_PPoll_Gen_Fact_2.Smooth2.Integrator1.y",
   "Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[1]", percentvar}]]
```

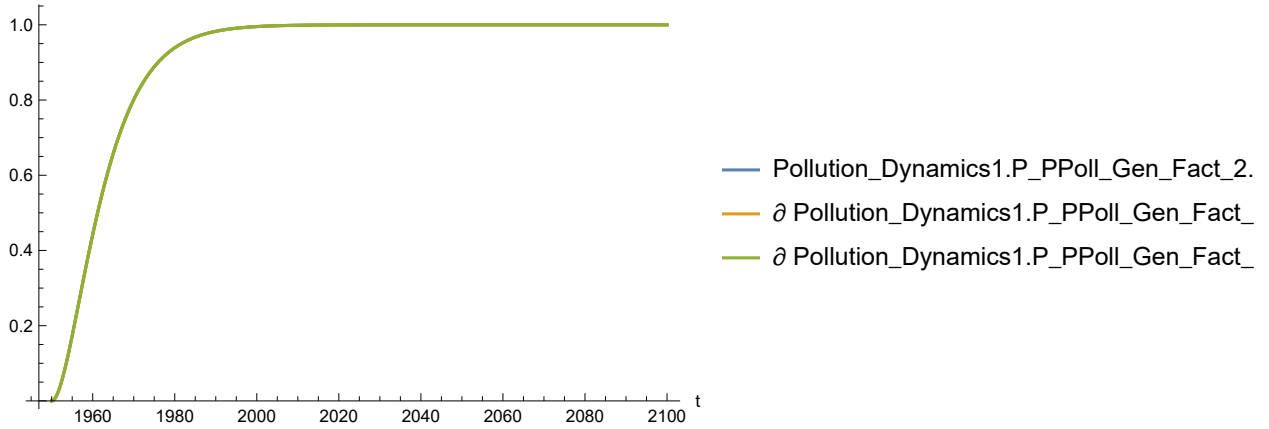
Out[259]=



In[260]:=

```
SystemModelPlot[simsensdata,
  {"Pollution_Dynamics1.P_PPoll_Gen_Fact_2.Smooth2.Integrator1.y",
   "Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[2]", percentvar}]
```

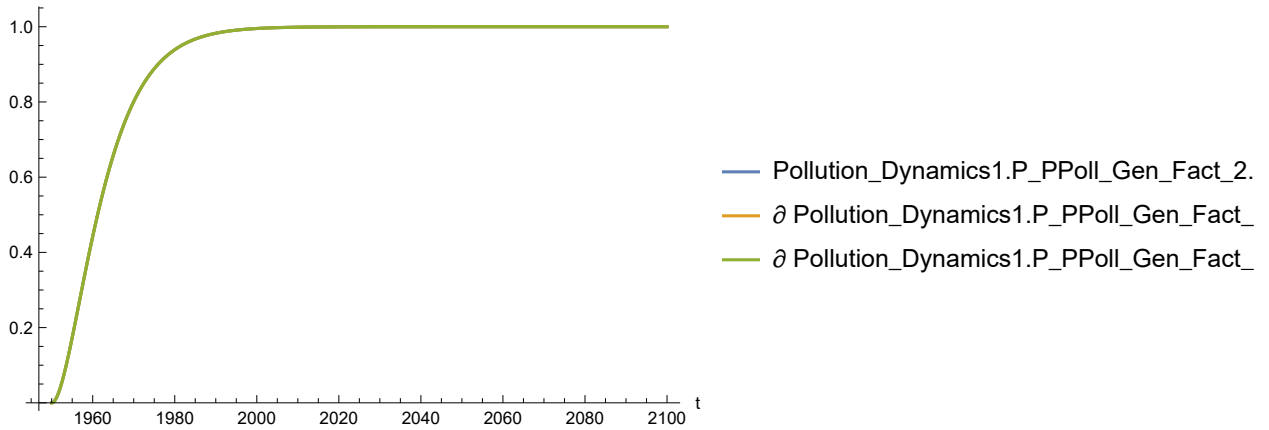
Out[260]=



In[261]:=

```
SystemModelPlot[simsensdata,
  {"Pollution_Dynamics1.P_PPoll_Gen_Fact_2.Smooth2.Integrator1.y",
   "Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[3]", percentvar}]
```

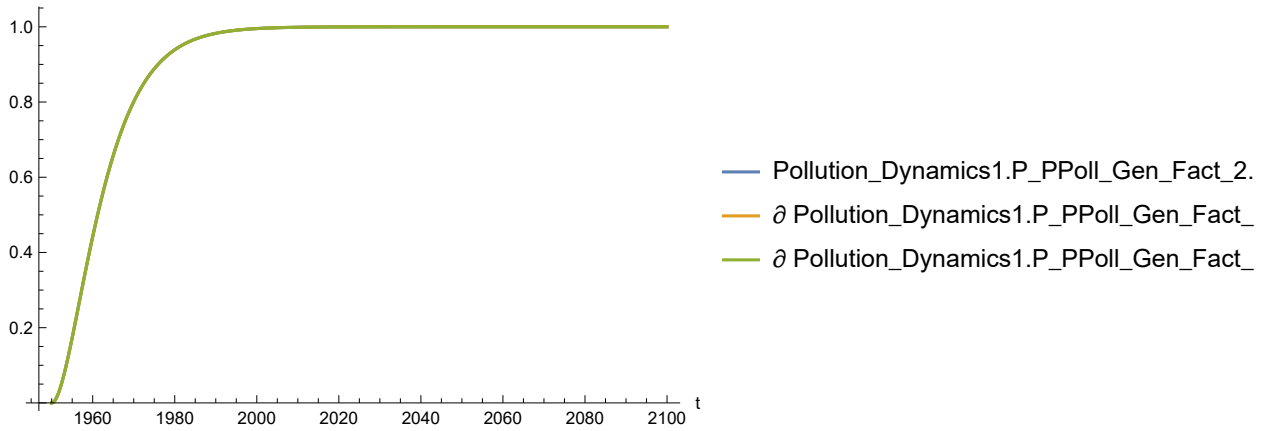
Out[261]=



In[262]:=

```
SystemModelPlot[simsensdata,
  {"Pollution_Dynamics1.P_PPoll_Gen_Fact_2.Smooth2.Integrator1.y",
   "Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[4]", percentvar}]
```

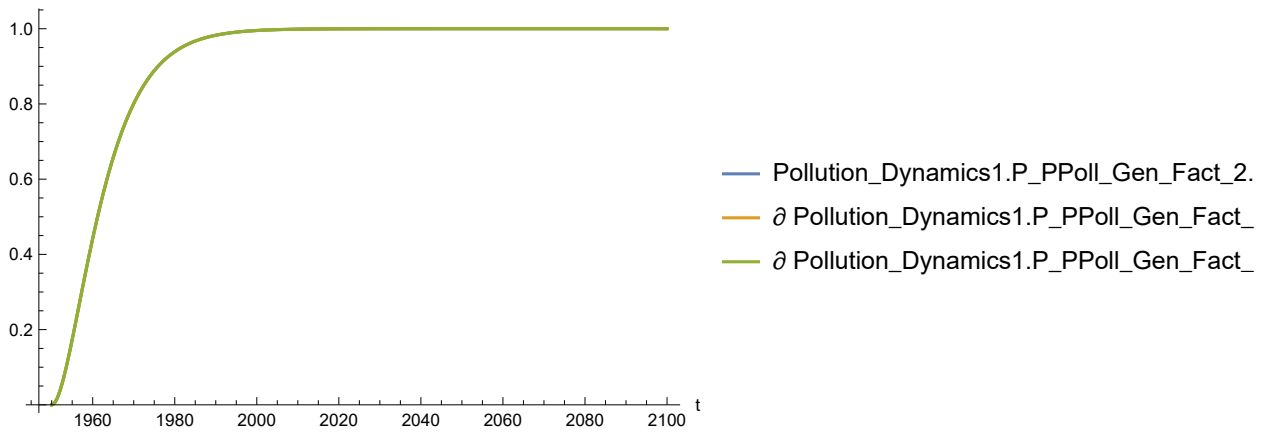
Out[262]=



In[263]:=

```
SystemModelPlot[simsensdata,
  {"Pollution_Dynamics1.P_PPoll_Gen_Fact_2.Smooth2.Integrator1.y",
   "Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[5]", percentvar}]
```

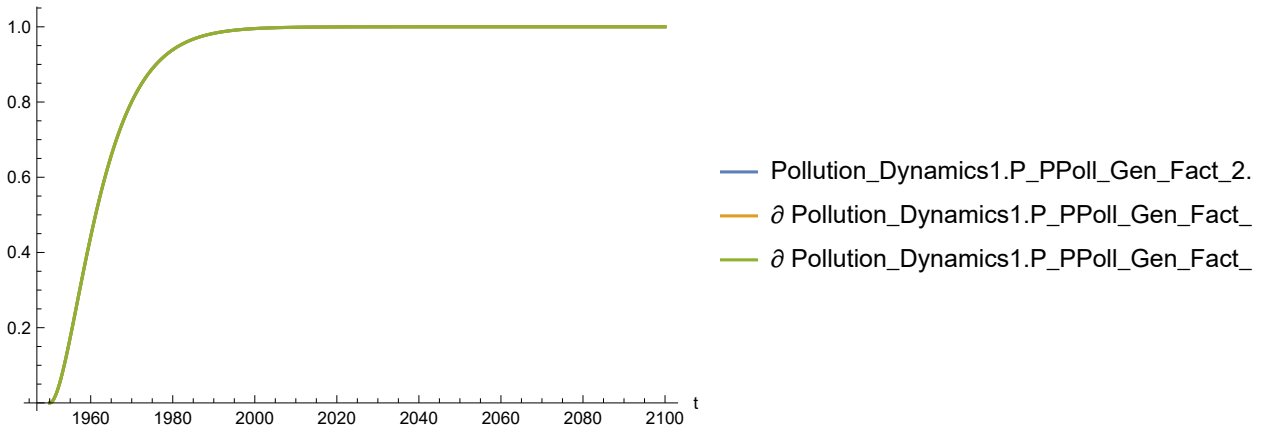
Out[263]=



In[264]:=

```
SystemModelPlot[simsensdata,
  {"Pollution_Dynamics1.P_PPoll_Gen_Fact_2.Smooth2.Integrator1.y",
   "Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[6]", percentvar}]
```

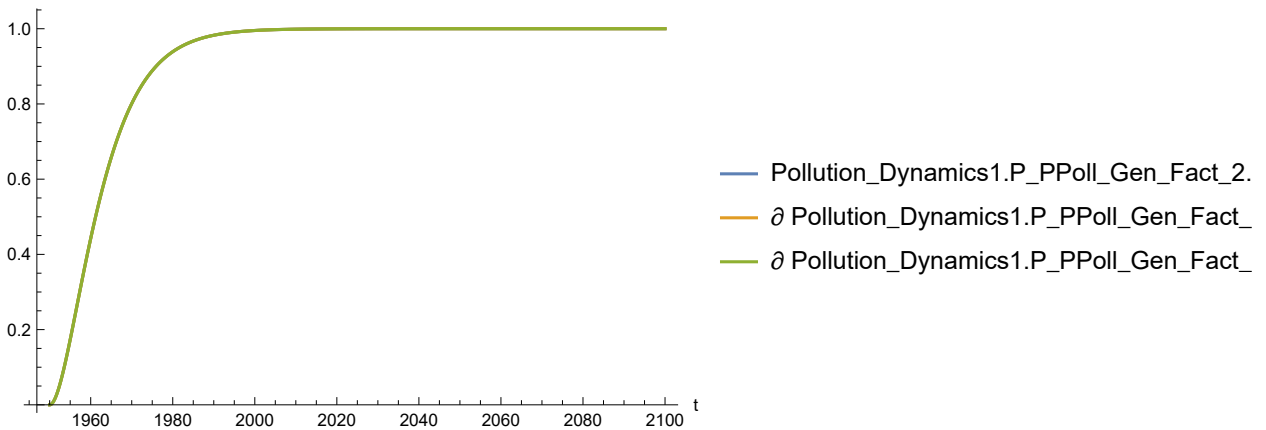
Out[264]=



In[265]:=

```
SystemModelPlot[simsensdata,
  {"Pollution_Dynamics1.P_PPoll_Gen_Fact_2.Smooth2.Integrator1.y",
   "Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[7]", percentvar}]
```

Out[265]=

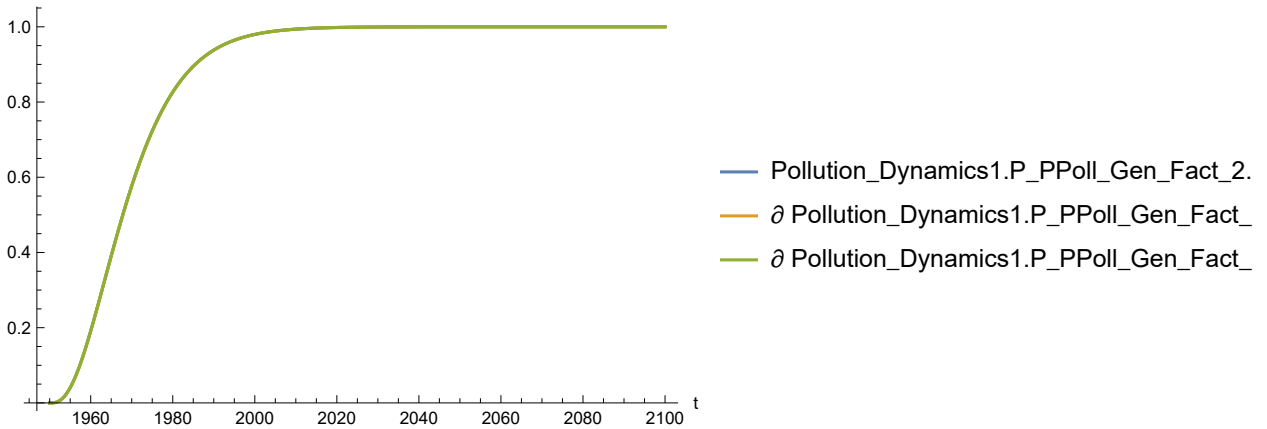


Plot the sensitivity of Pollution_Dynamics1.P_PPoll_Gen_Fact_2.Smooth3.Integrator1.y to Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals.

In[266]:=

```
SystemModelPlot[simsensdata,
  {"Pollution_Dynamics1.P_PPoll_Gen_Fact_2.Smooth3.Integrator1.y",
   "Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[1]", percentvar}]
```

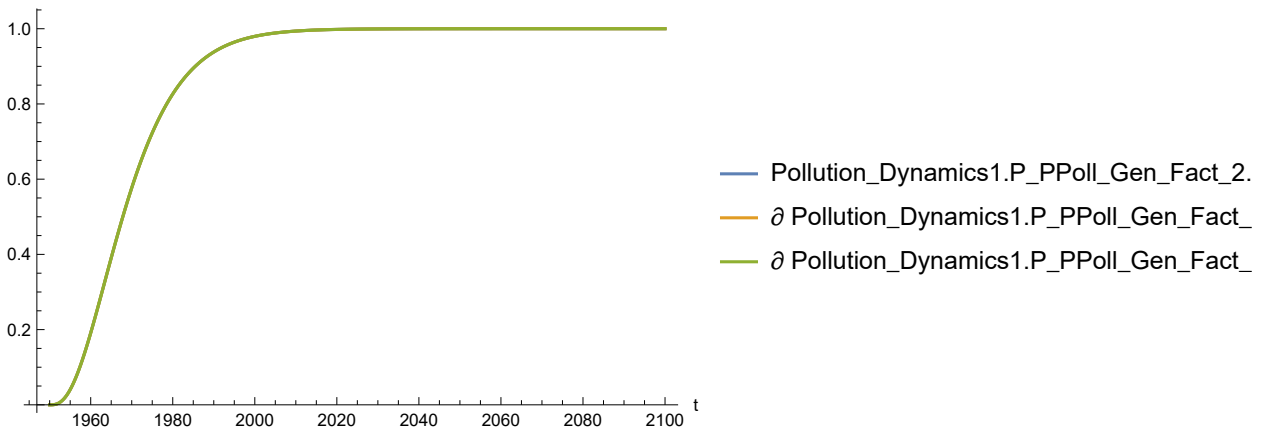
Out[266]=



In[267]:=

```
SystemModelPlot[simsensdata,
  {"Pollution_Dynamics1.P_PPoll_Gen_Fact_2.Smooth3.Integrator1.y",
   "Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[2]", percentvar}]
```

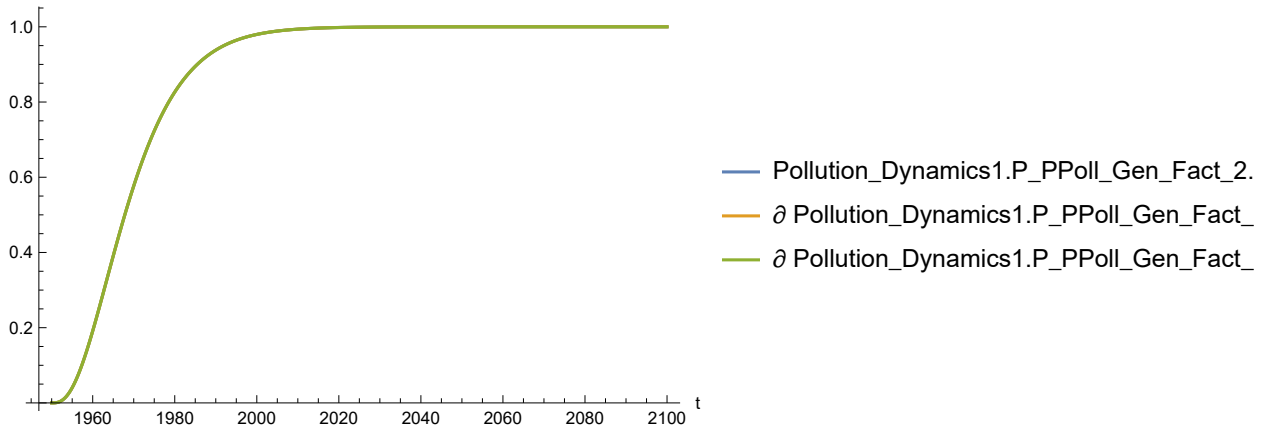
Out[267]=



In[268]:=

```
SystemModelPlot[simsensdata,
  {"Pollution_Dynamics1.P_PPoll_Gen_Fact_2.Smooth3.Integrator1.y",
   "Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[3]", percentvar}]
```

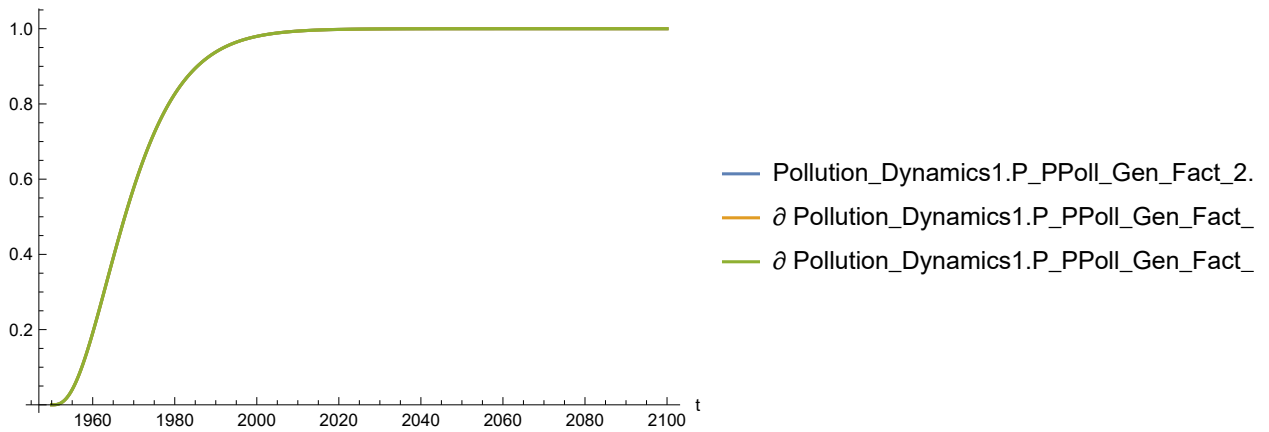
Out[268]=



In[269]:=

```
SystemModelPlot[simsensdata,
  {"Pollution_Dynamics1.P_PPoll_Gen_Fact_2.Smooth3.Integrator1.y",
   "Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[4]", percentvar}]
```

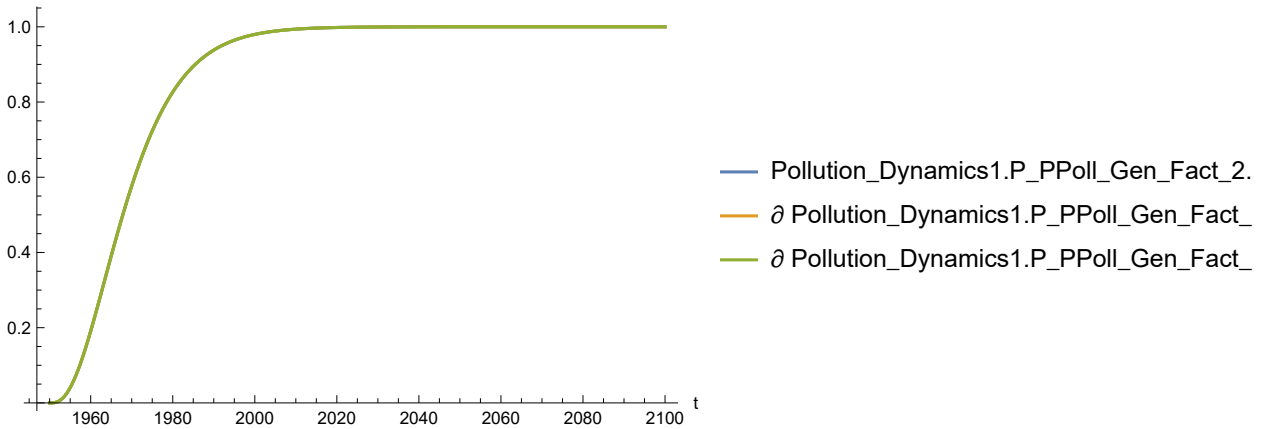
Out[269]=



In[270]:=

```
SystemModelPlot[simsensdata,
  {"Pollution_Dynamics1.P_PPoll_Gen_Fact_2.Smooth3.Integrator1.y",
   "Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[5]", percentvar}]
```

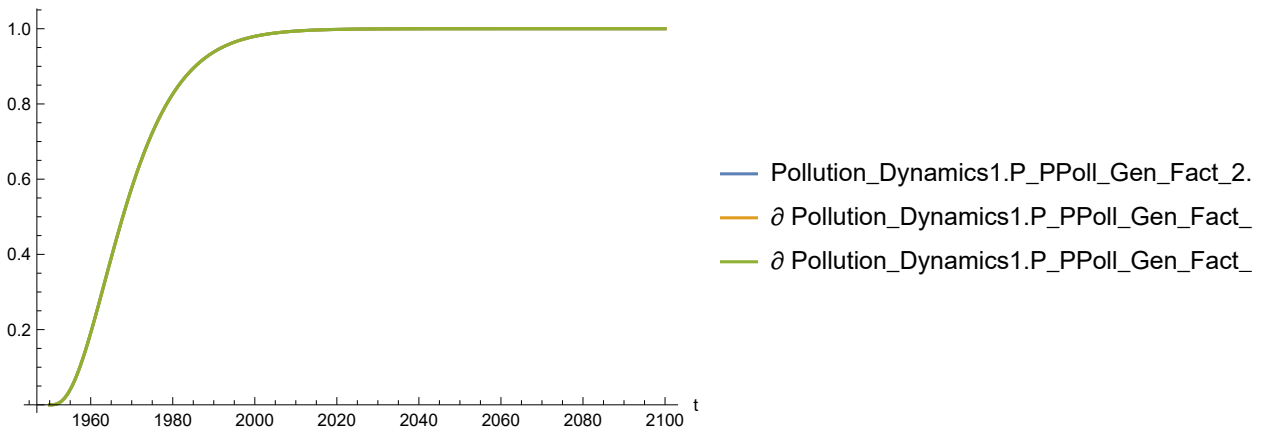
Out[270]=



In[271]:=

```
SystemModelPlot[simsensdata,
  {"Pollution_Dynamics1.P_PPoll_Gen_Fact_2.Smooth3.Integrator1.y",
   "Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[6]", percentvar}]
```

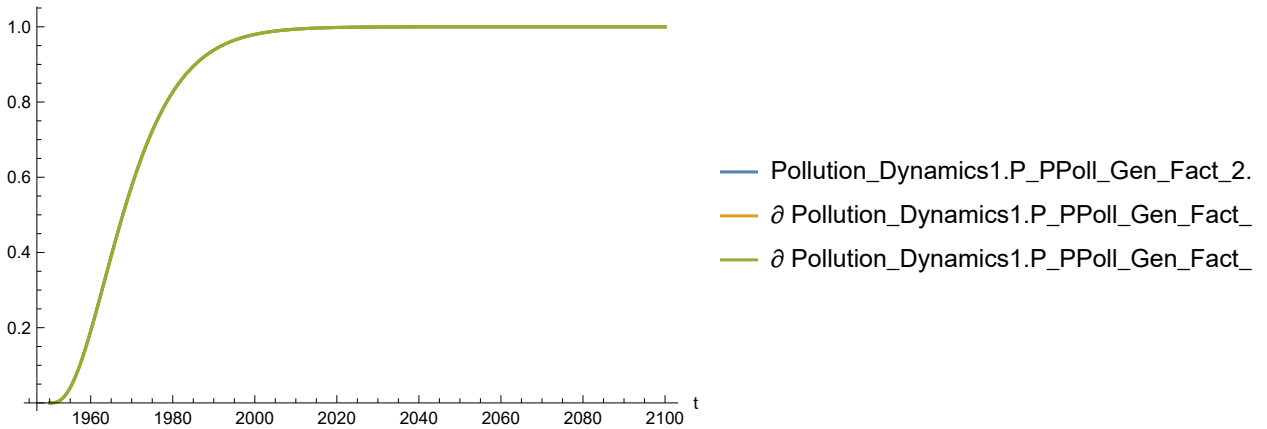
Out[271]=



In[272]:=

```
SystemModelPlot[simsensdata,
  {"Pollution_Dynamics1.P_PPoll_Gen_Fact_2.Smooth3.Integrator1.y",
   "Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[7]", percentvar}]
```

Out[272]=

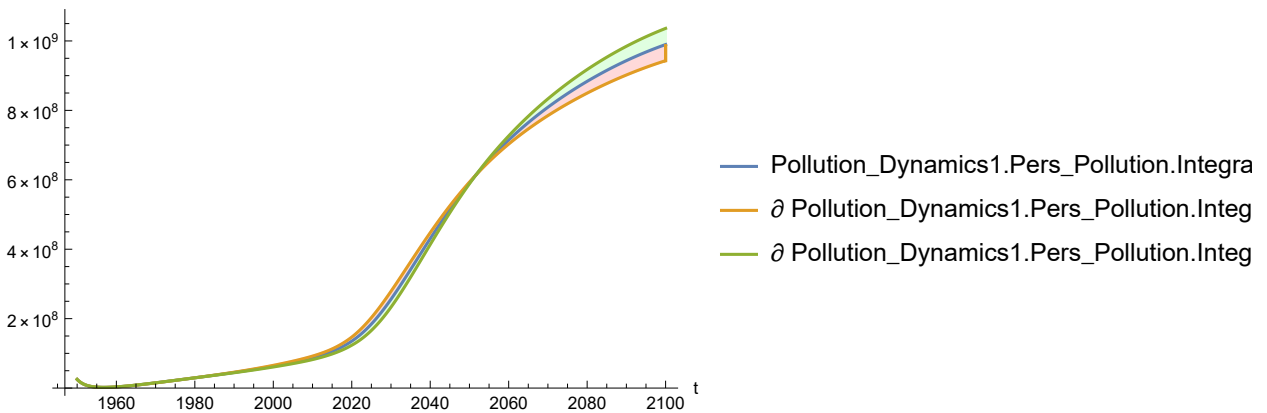


Plot the sensitivity of Pollution_Dynamics1.Pers_Pollution.Integrator1.y to Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals.

In[273]:=

```
SystemModelPlot[simsensdata, {"Pollution_Dynamics1.Pers_Pollution.Integrator1.y",
  "Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[1]", percentvar}]
```

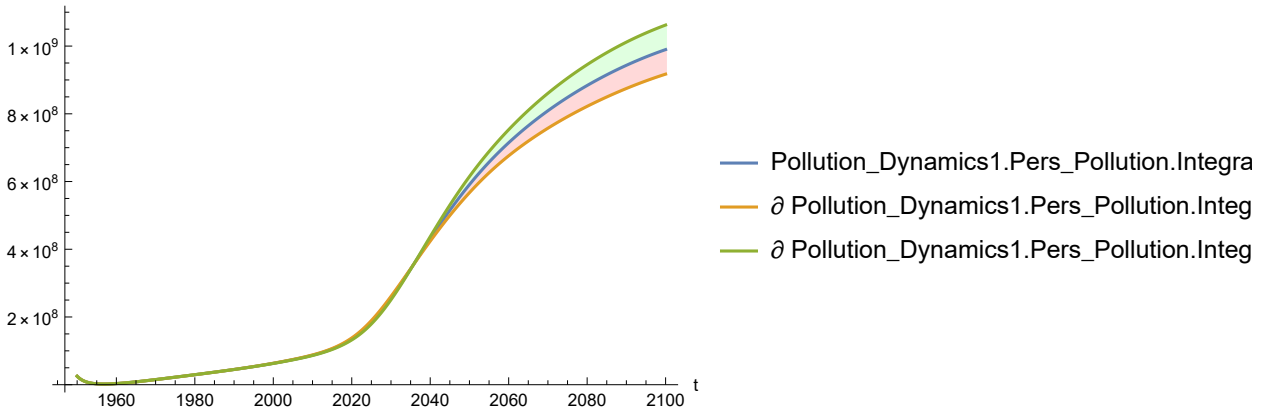
Out[273]=



In[274]:=

```
SystemModelPlot[simsensdata, {"Pollution_Dynamics1.Pers_Pollution.Integrator1.y",
"Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[2]", percentvar}]
```

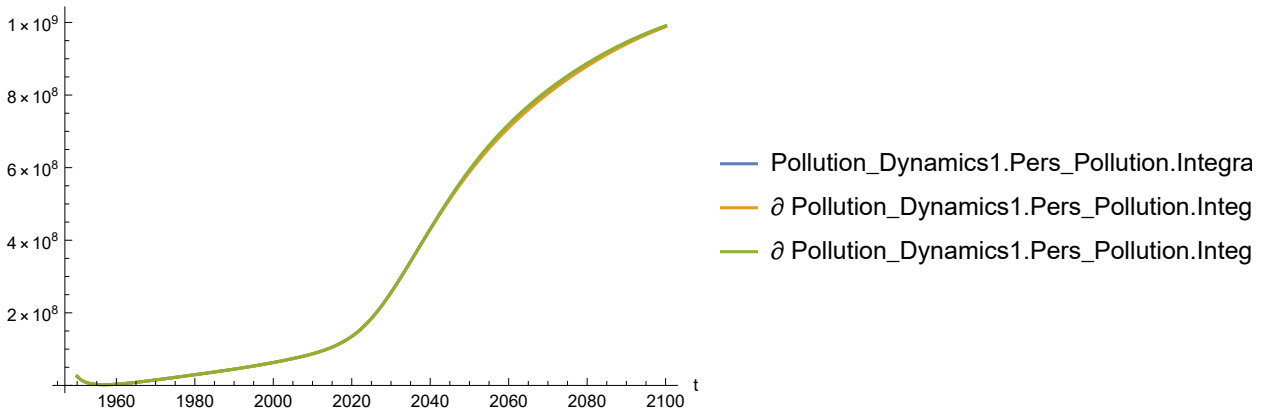
Out[274]=



In[275]:=

```
SystemModelPlot[simsensdata, {"Pollution_Dynamics1.Pers_Pollution.Integrator1.y",
"Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[3]", percentvar}]
```

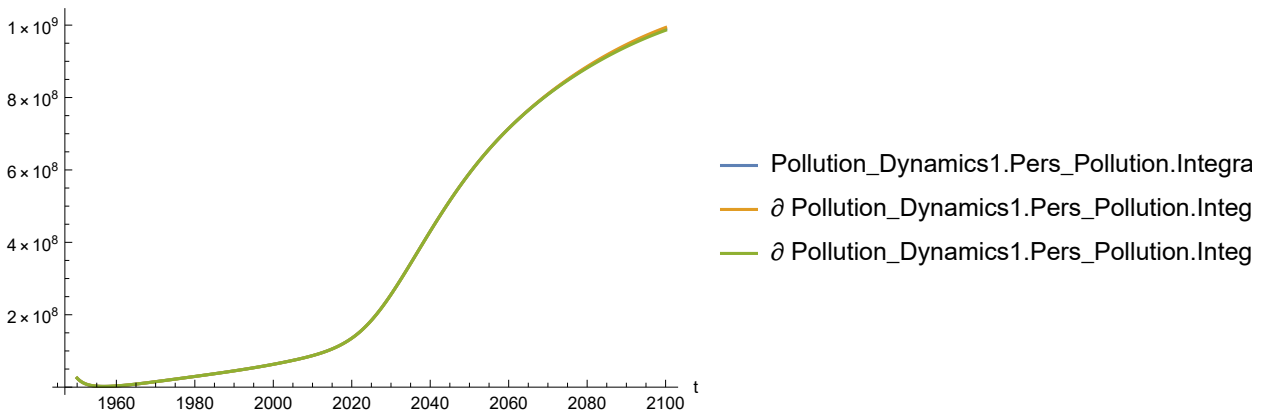
Out[275]=



In[276]:=

```
SystemModelPlot[simsensdata, {"Pollution_Dynamics1.Pers_Pollution.Integrator1.y",
"Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[4]", percentvar}]
```

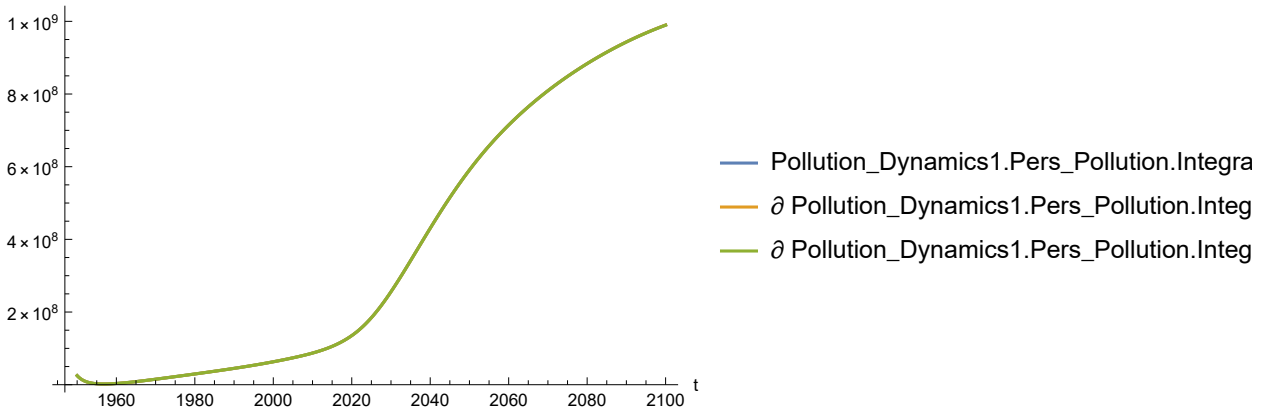
Out[276]=



In[277]:=

```
SystemModelPlot[simsensdata, {"Pollution_Dynamics1.Pers_Pollution.Integrator1.y",
"Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[5]", percentvar}]
```

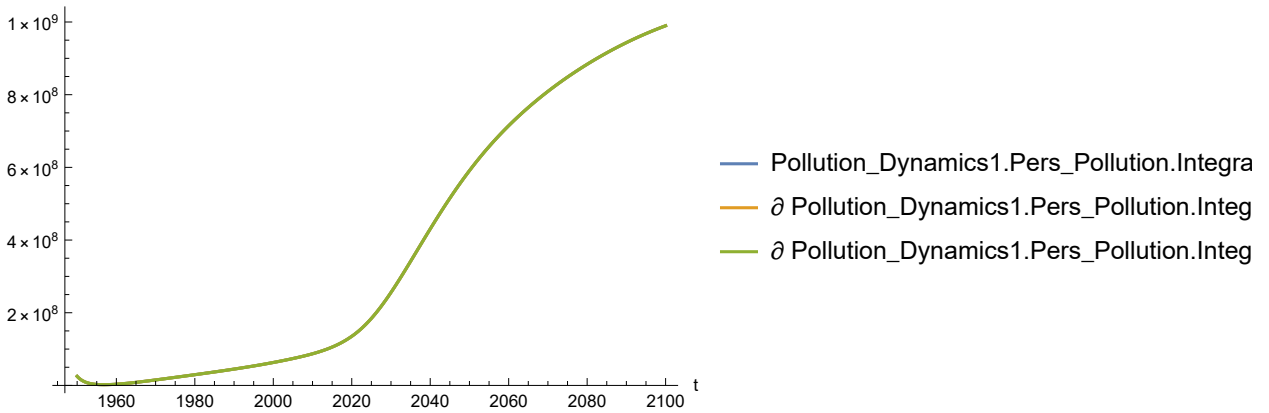
Out[277]=



In[278]:=

```
SystemModelPlot[simsensdata, {"Pollution_Dynamics1.Pers_Pollution.Integrator1.y",
"Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[6]", percentvar}]
```

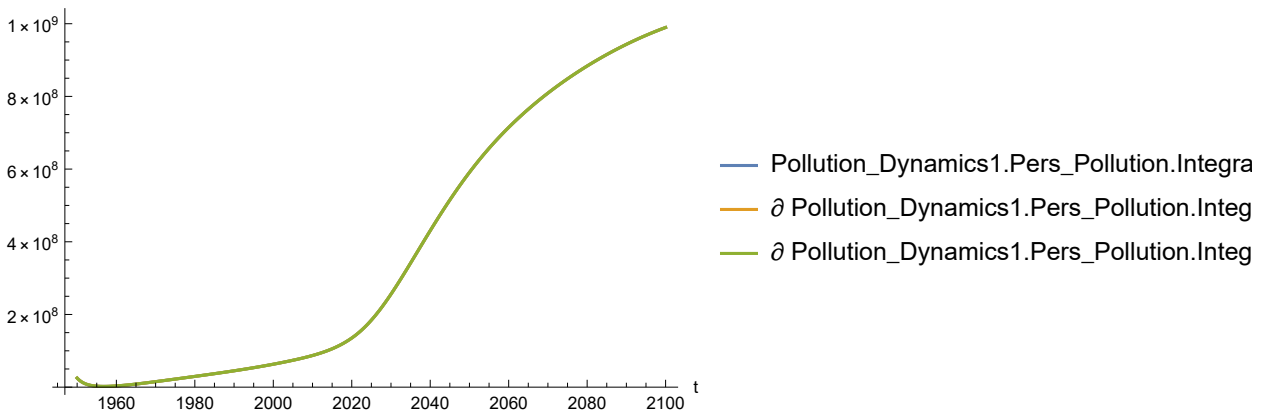
Out[278]=



In[279]:=

```
SystemModelPlot[simsensdata, {"Pollution_Dynamics1.Pers_Pollution.Integrator1.y",
"Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[7]", percentvar}]
```

Out[279]=

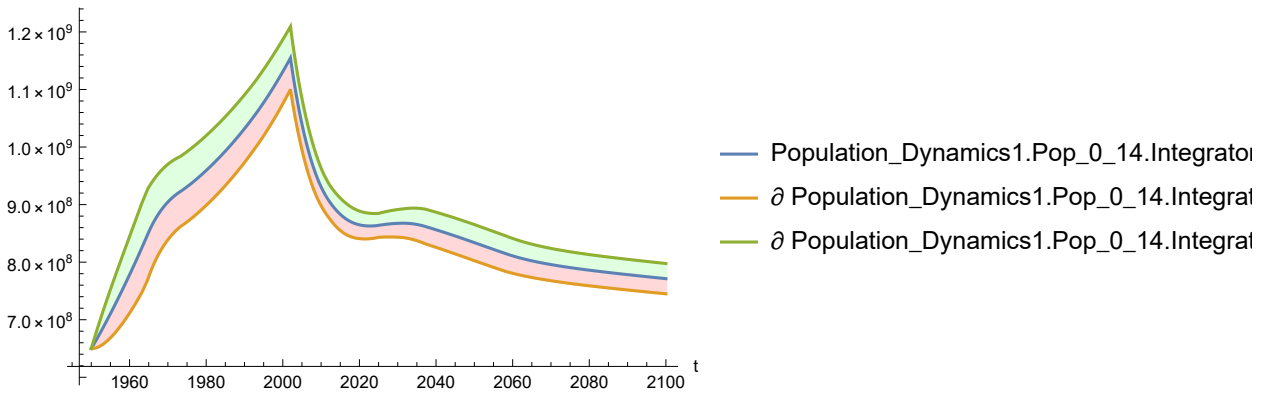


Plot sensitivity of population to **Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals**. In World3, population is divided into four subpopulations by age: 0-14 years, 15-44 years, 45-64 years, and 65 year and over.

In[280]:=

```
SystemModelPlot[simsensdata, {"Population_Dynamics1.Pop_0_14.Integrator1.y",
"Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[1]", percentvar}]
```

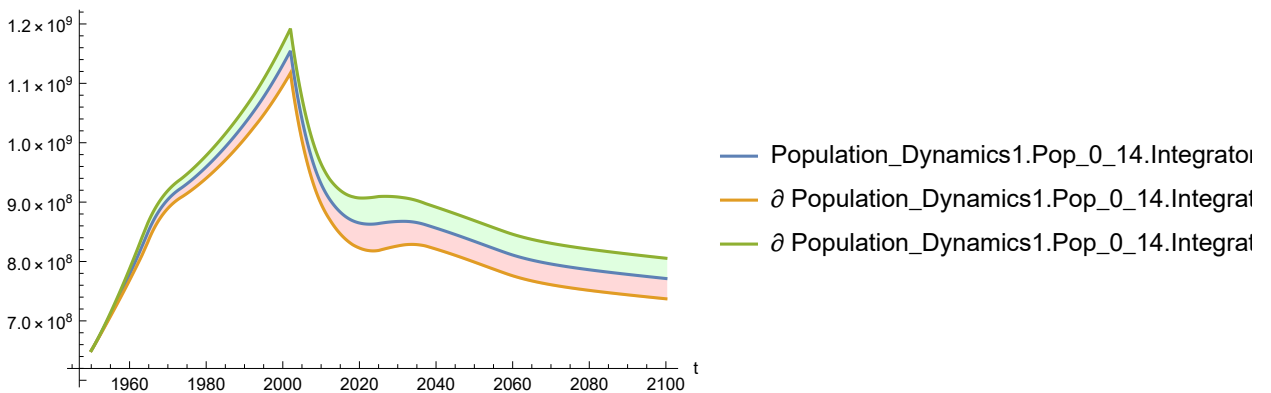
Out[280]=



In[281]:=

```
SystemModelPlot[simsensdata, {"Population_Dynamics1.Pop_0_14.Integrator1.y",
"Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[2]", percentvar}]
```

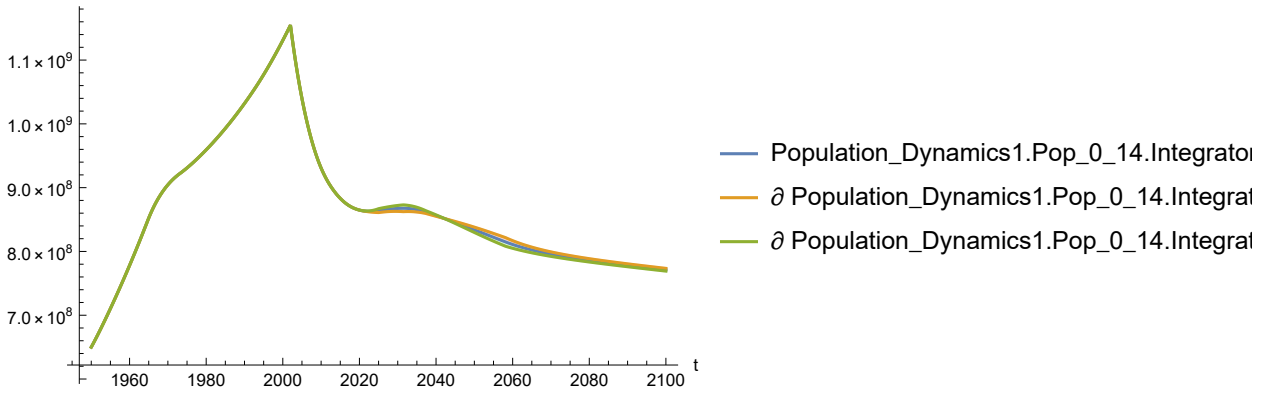
Out[281]=



In[282]:=

```
SystemModelPlot[simsensdata, {"Population_Dynamics1.Pop_0_14.Integrator1.y",
"Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[3]", percentvar}]
```

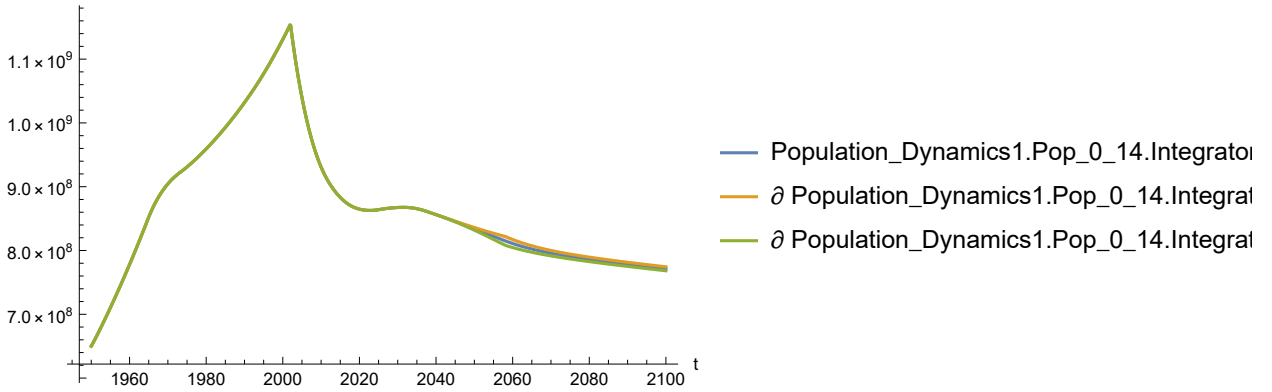
Out[282]=



In[283]:=

```
SystemModelPlot[simsensdata, {"Population_Dynamics1.Pop_0_14.Integrator1.y",
"Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[4]", percentvar}]
```

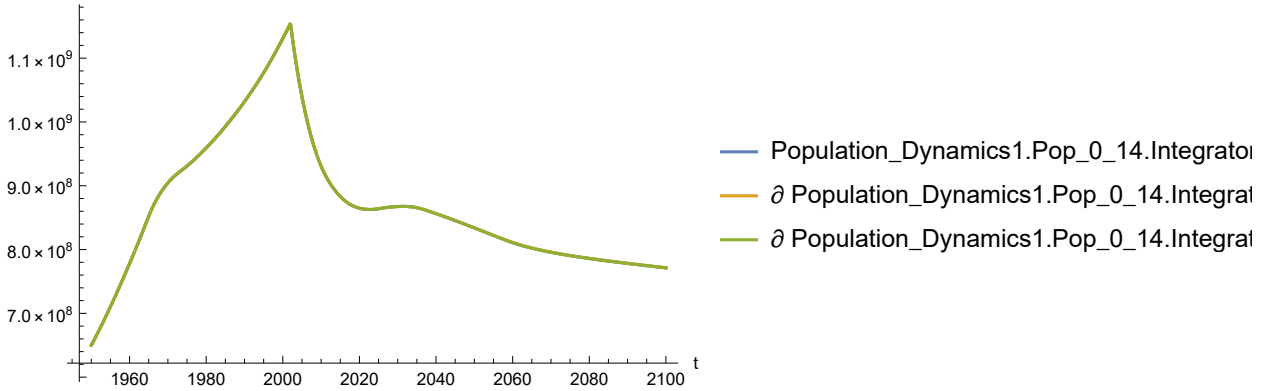
Out[283]=



In[284]:=

```
SystemModelPlot[simsensdata, {"Population_Dynamics1.Pop_0_14.Integrator1.y",
"Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[5]", percentvar}]
```

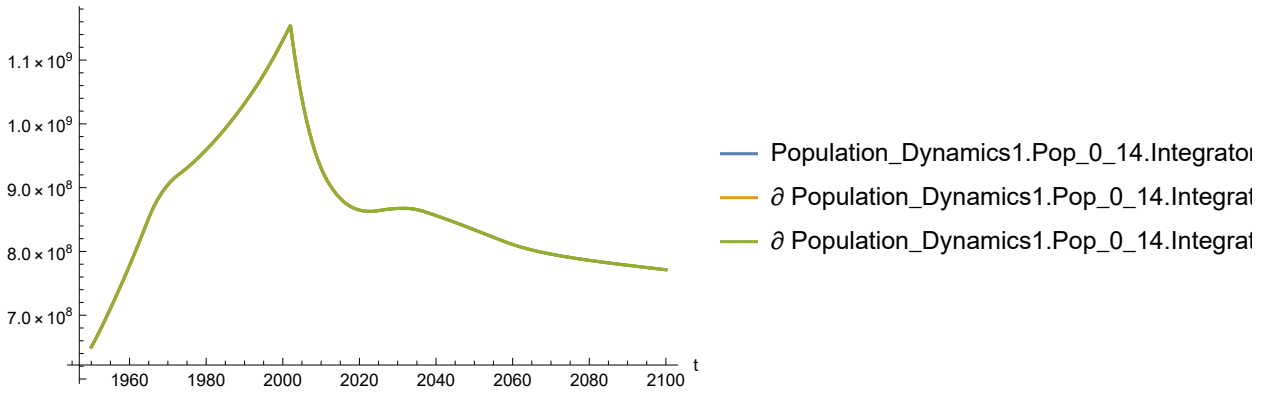
Out[284]=



In[285]:=

```
SystemModelPlot[simsensdata, {"Population_Dynamics1.Pop_0_14.Integrator1.y",
"Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[6]", percentvar}]
```

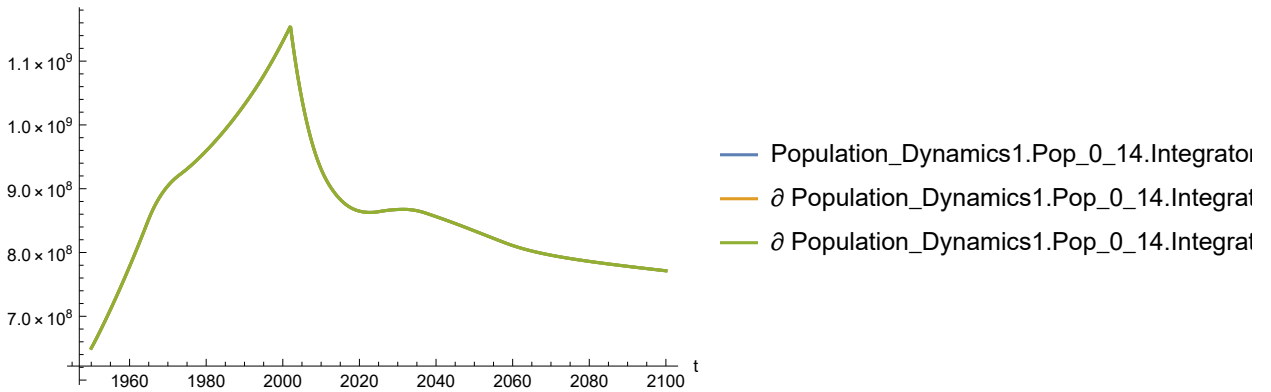
Out[285]=



In[286]:=

```
SystemModelPlot[simsensdata, {"Population_Dynamics1.Pop_0_14.Integrator1.y",
"Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[7]", percentvar}]
```

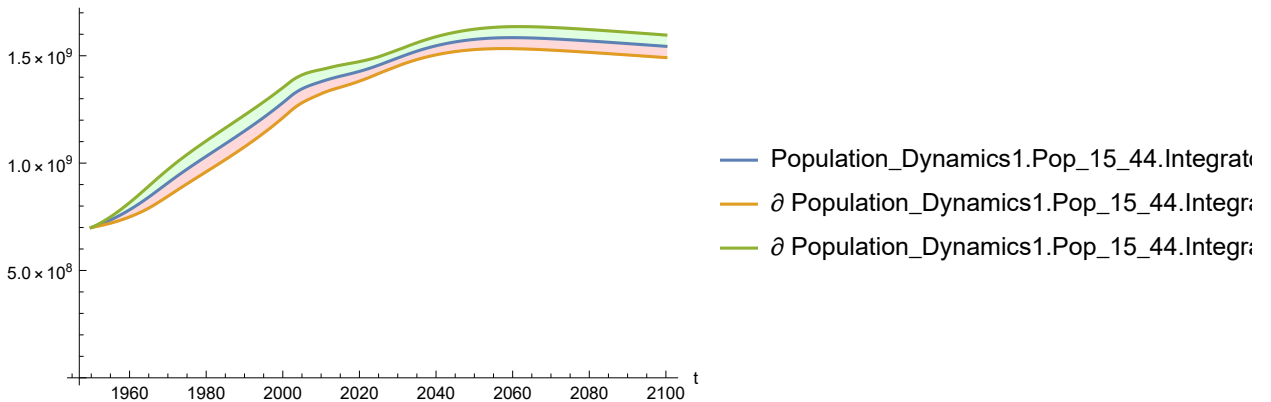
Out[286]=



In[287]:=

```
SystemModelPlot[simsensdata, {"Population_Dynamics1.Pop_15_44.Integrator1.y",
"Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[1]", percentvar}]
```

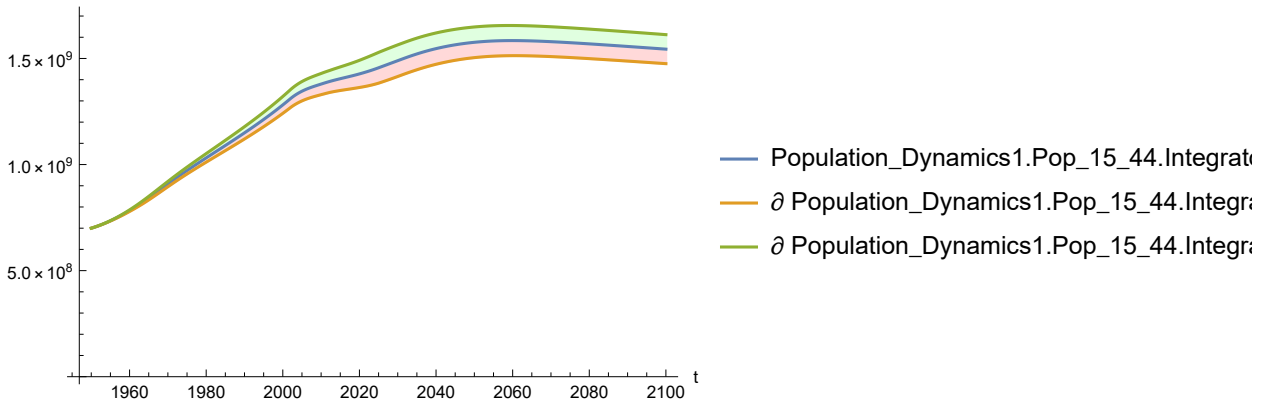
Out[287]=



In[288]:=

```
SystemModelPlot[simsensdata, {"Population_Dynamics1.Pop_15_44.Integrator1.y",
"Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[2]", percentvar}]
```

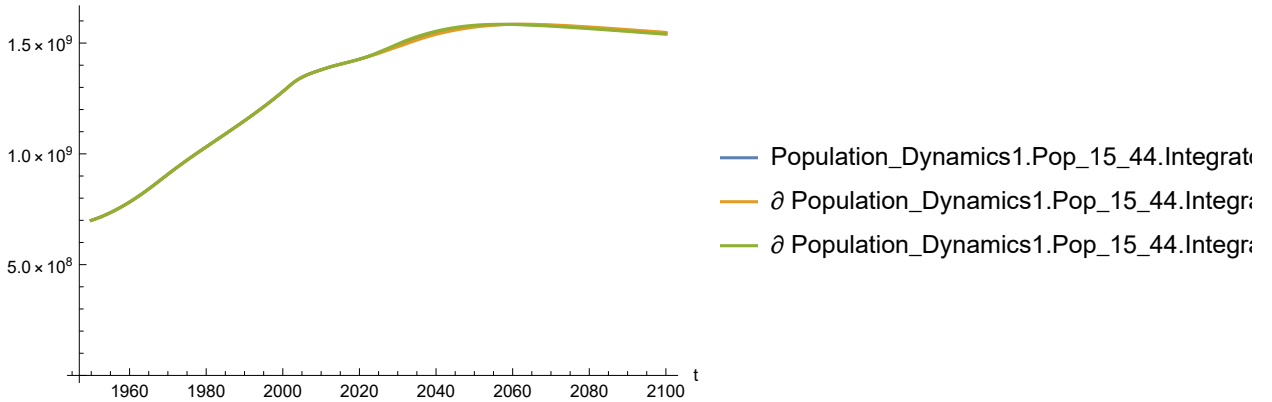
Out[288]=



In[289]:=

```
SystemModelPlot[simsensdata, {"Population_Dynamics1.Pop_15_44.Integrator1.y",
"Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[3]", percentvar}]
```

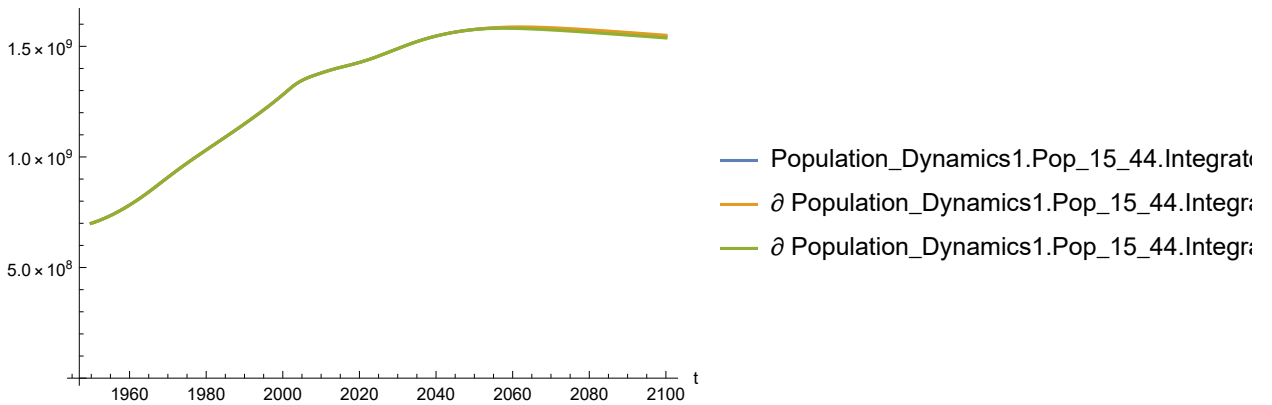
Out[289]=



In[290]:=

```
SystemModelPlot[simsensdata, {"Population_Dynamics1.Pop_15_44.Integrator1.y",
"Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[4]", percentvar}]
```

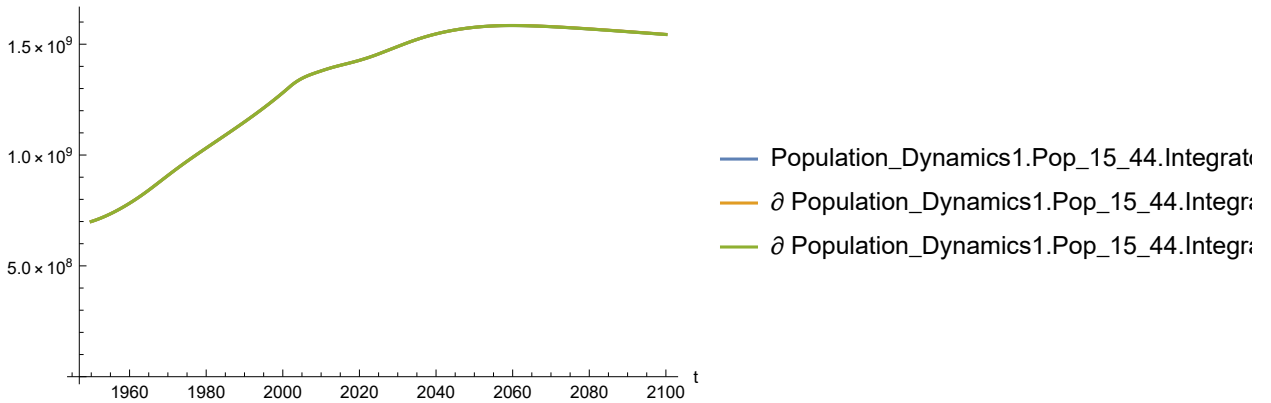
Out[290]=



In[291]:=

```
SystemModelPlot[simsensdata, {"Population_Dynamics1.Pop_15_44.Integrator1.y",
"Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[5]", percentvar}]
```

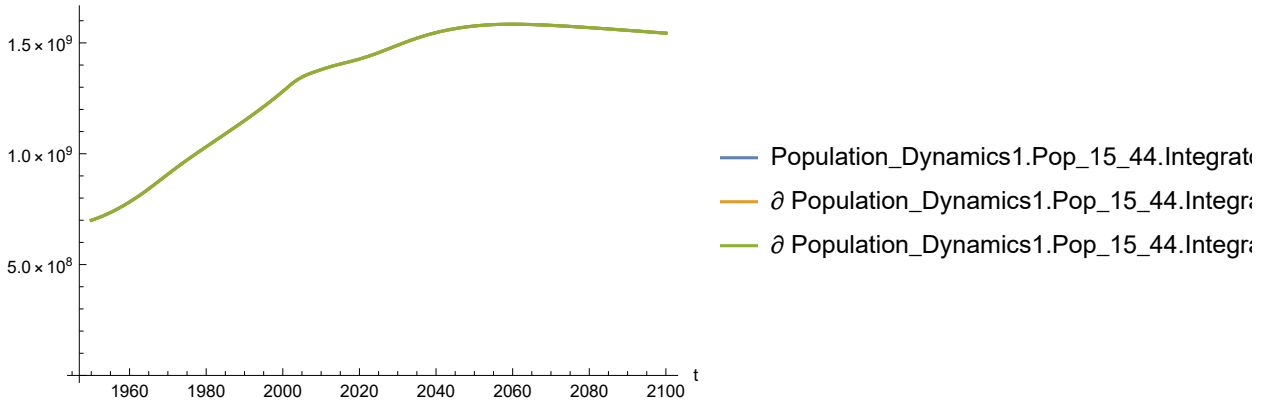
Out[291]=



In[292]:=

```
SystemModelPlot[simsensdata, {"Population_Dynamics1.Pop_15_44.Integrator1.y",
"Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[6]", percentvar}]
```

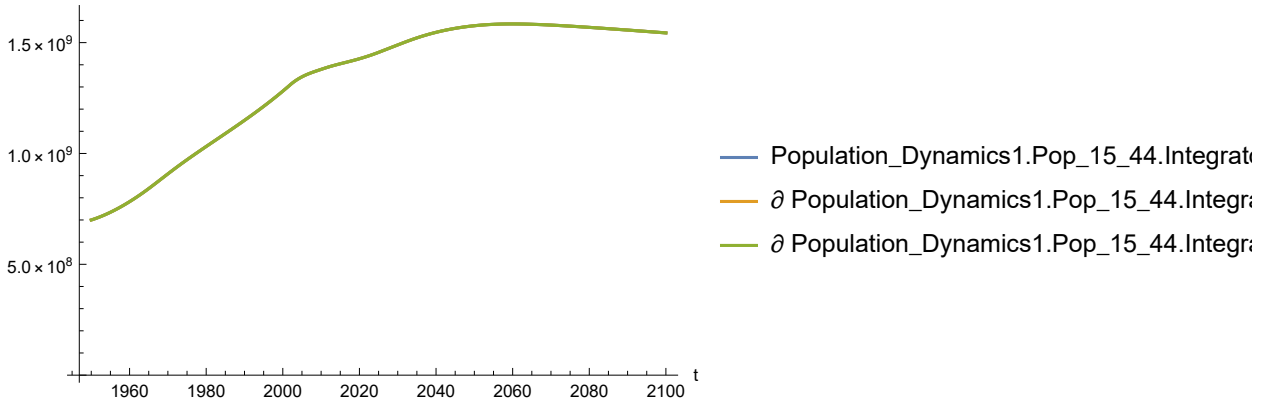
Out[292]=



In[293]:=

```
SystemModelPlot[simsensdata, {"Population_Dynamics1.Pop_15_44.Integrator1.y",
"Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[7]", percentvar}]
```

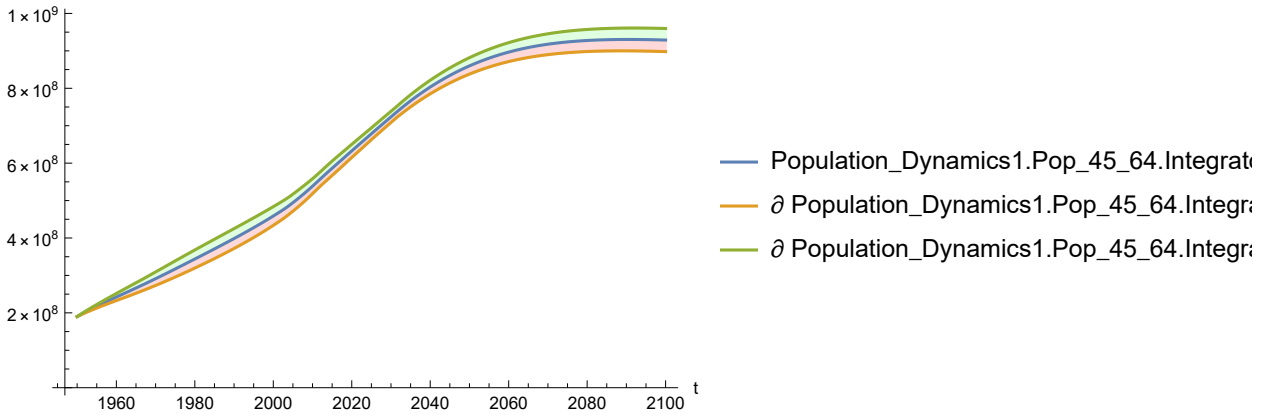
Out[293]=



In[294]:=

```
SystemModelPlot[simsensdata, {"Population_Dynamics1.Pop_45_64.Integrator1.y",
"Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[1]", percentvar}]
```

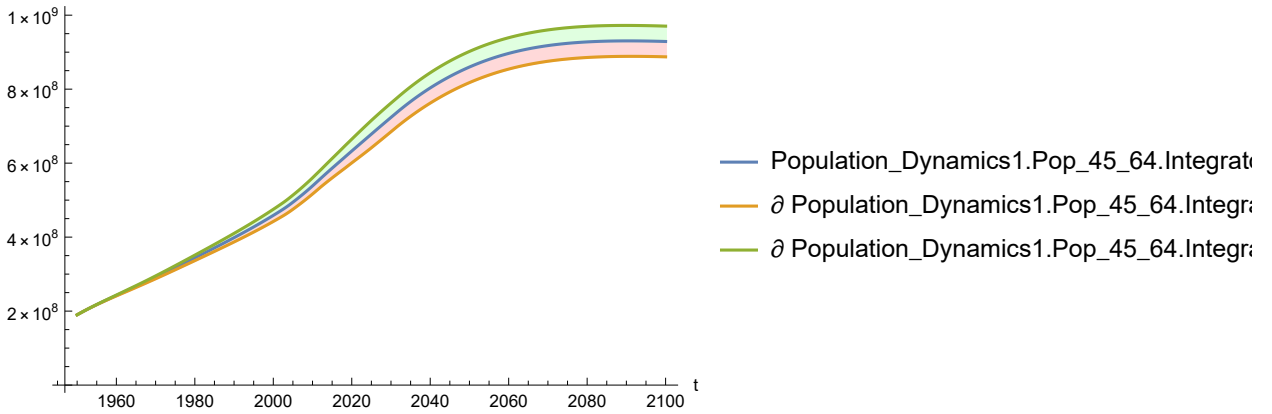
Out[294]=



In[295]:=

```
SystemModelPlot[simsensdata, {"Population_Dynamics1.Pop_45_64.Integrator1.y",
"Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[2]", percentvar}]
```

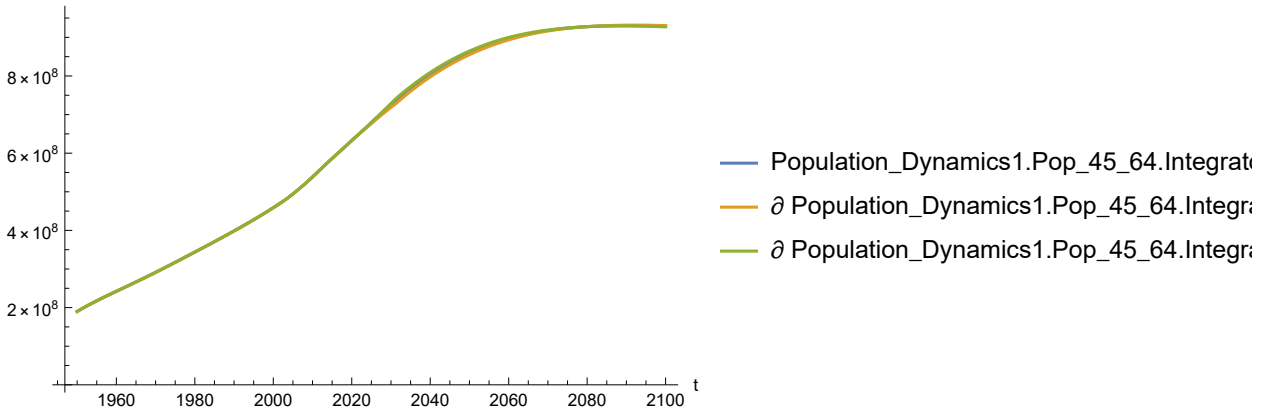
Out[295]=



In[296]:=

```
SystemModelPlot[simsensdata, {"Population_Dynamics1.Pop_45_64.Integrator1.y",
"Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[3]", percentvar}]
```

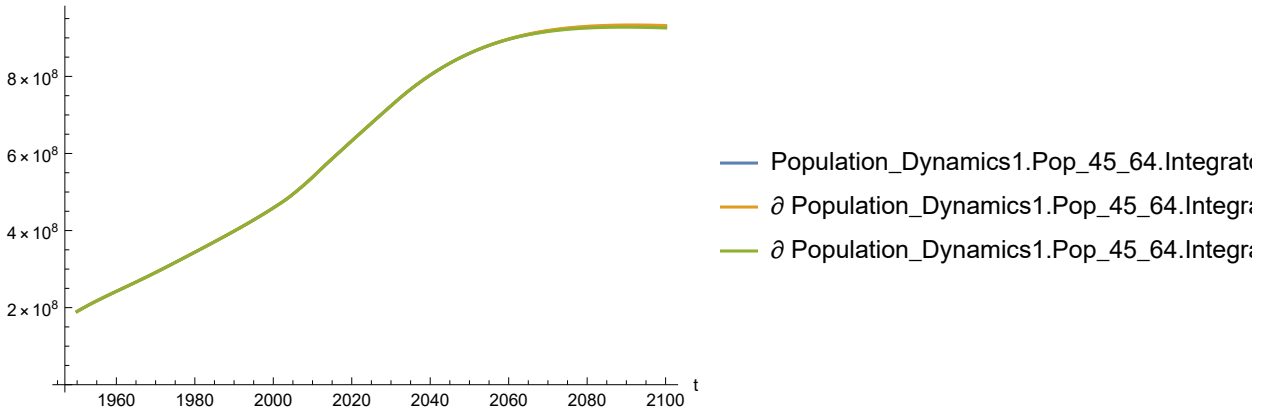
Out[296]=



In[297]:=

```
SystemModelPlot[simsensdata, {"Population_Dynamics1.Pop_45_64.Integrator1.y",
"Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[4]", percentvar}]
```

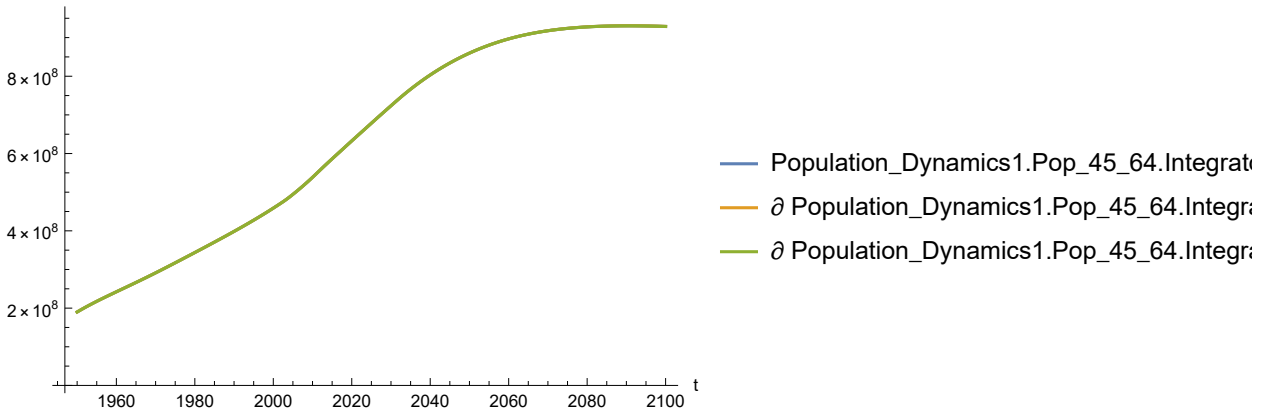
Out[297]=



In[298]:=

```
SystemModelPlot[simsensdata, {"Population_Dynamics1.Pop_45_64.Integrator1.y",
"Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[5]", percentvar}]
```

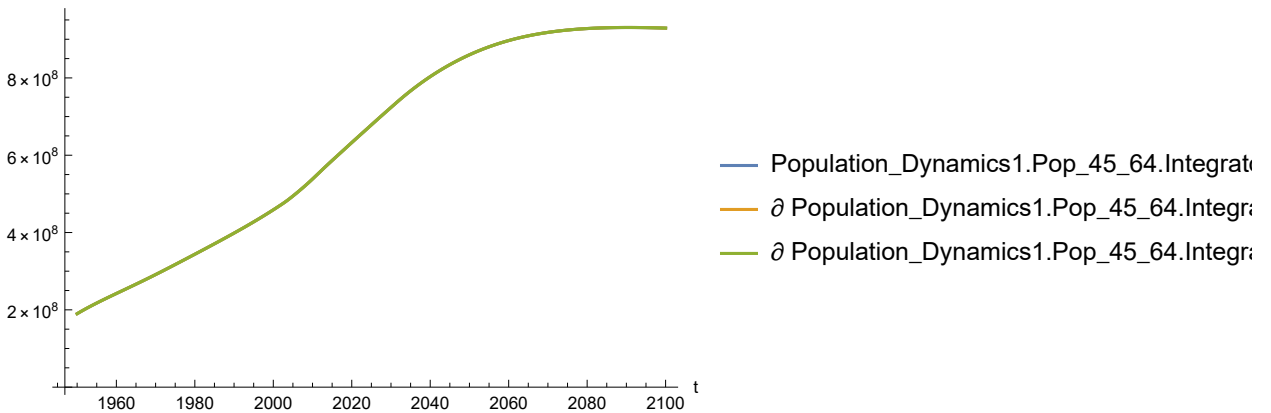
Out[298]=



In[299]:=

```
SystemModelPlot[simsensdata, {"Population_Dynamics1.Pop_45_64.Integrator1.y",
"Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[6]", percentvar}]
```

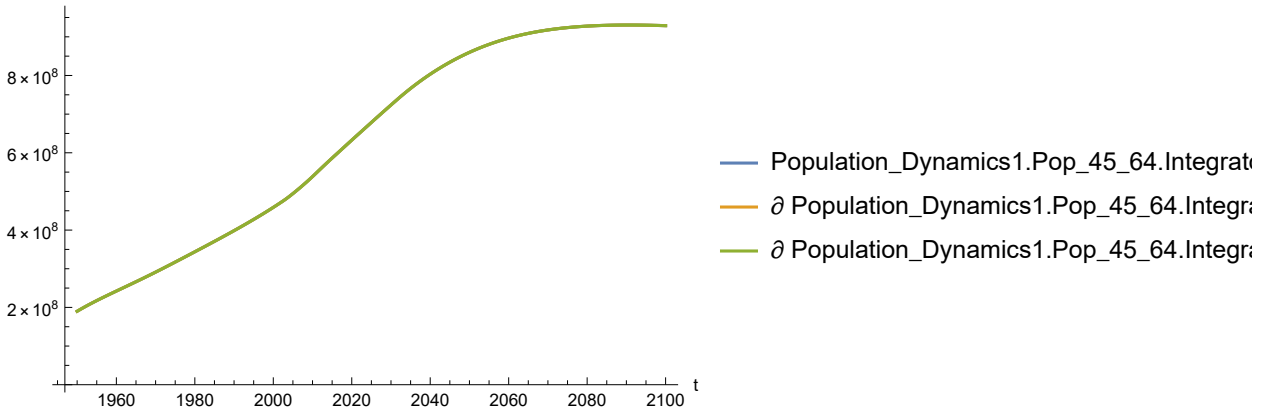
Out[299]=



In[300]:=

```
SystemModelPlot[simsensdata, {"Population_Dynamics1.Pop_45_64.Integrator1.y",
"Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[7]", percentvar}]
```

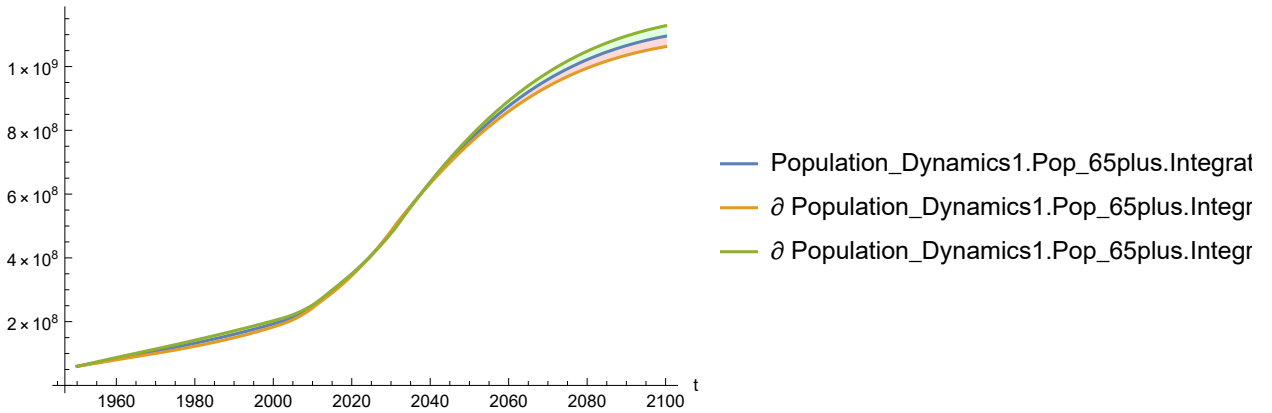
Out[300]=



In[301]:=

```
SystemModelPlot[simsensdata, {"Population_Dynamics1.Pop_65plus.Integrator1.y",
"Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[1]", percentvar}]
```

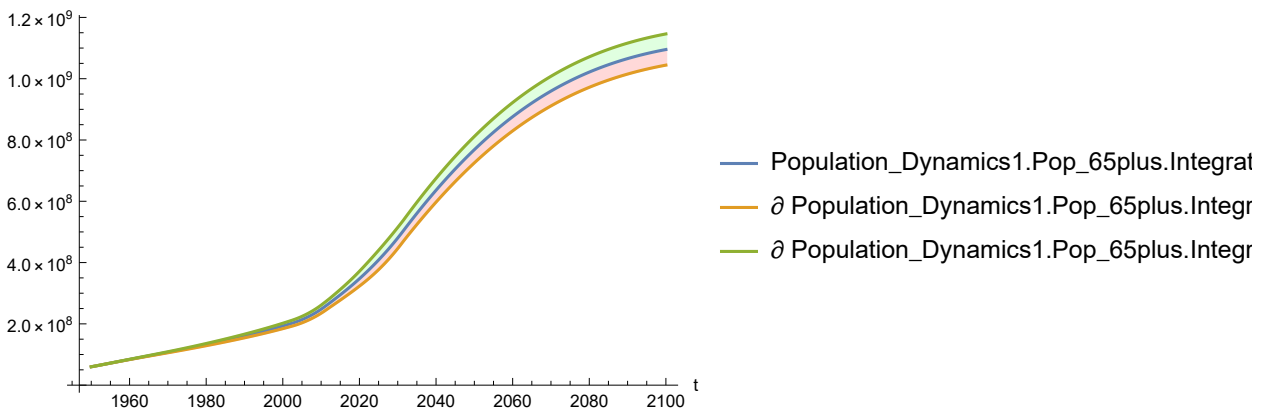
Out[301]=



In[302]:=

```
SystemModelPlot[simsensdata, {"Population_Dynamics1.Pop_65plus.Integrator1.y",
"Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[2]", percentvar}]
```

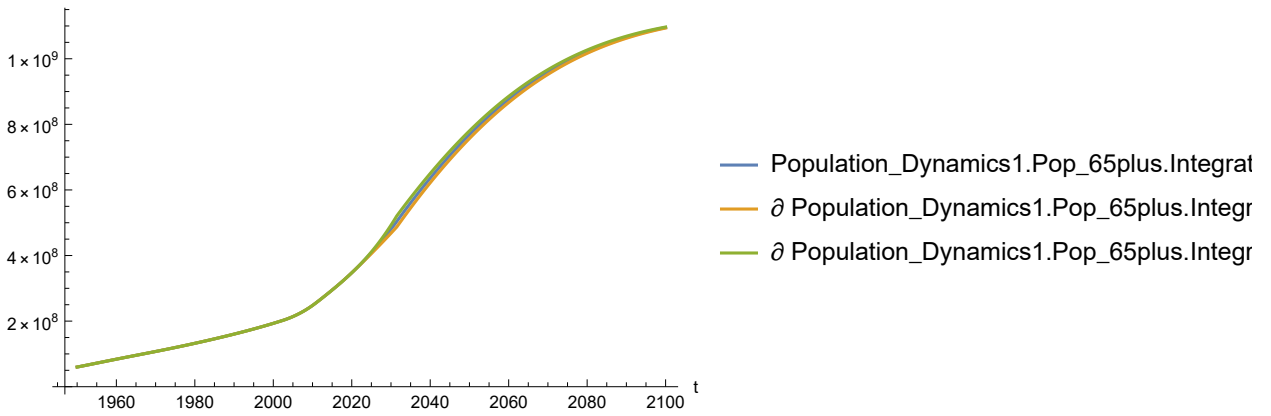
Out[302]=



In[303]:=

```
SystemModelPlot[simsensdata, {"Population_Dynamics1.Pop_65plus.Integrator1.y",
"Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[3]", percentvar}]
```

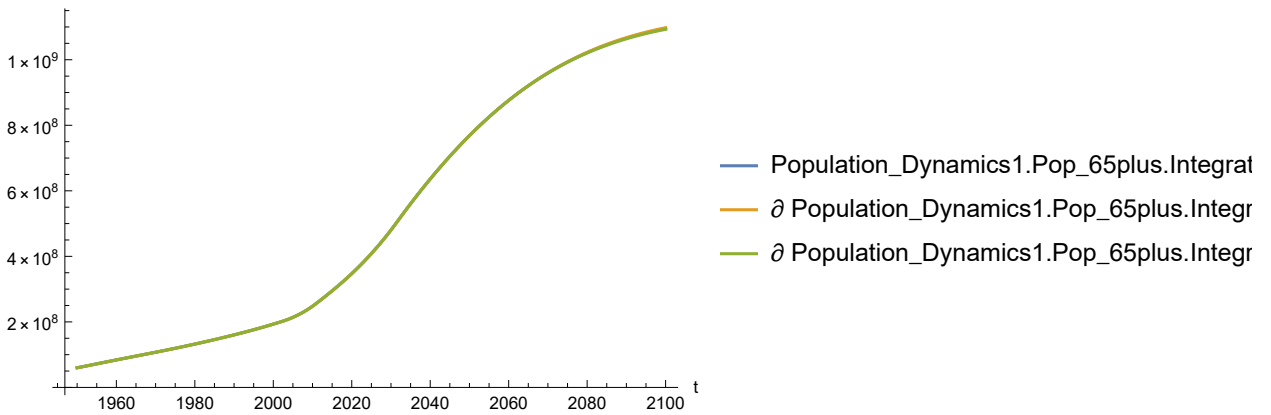
Out[303]:=



In[304]:=

```
SystemModelPlot[simsensdata, {"Population_Dynamics1.Pop_65plus.Integrator1.y",
"Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[4]", percentvar}]
```

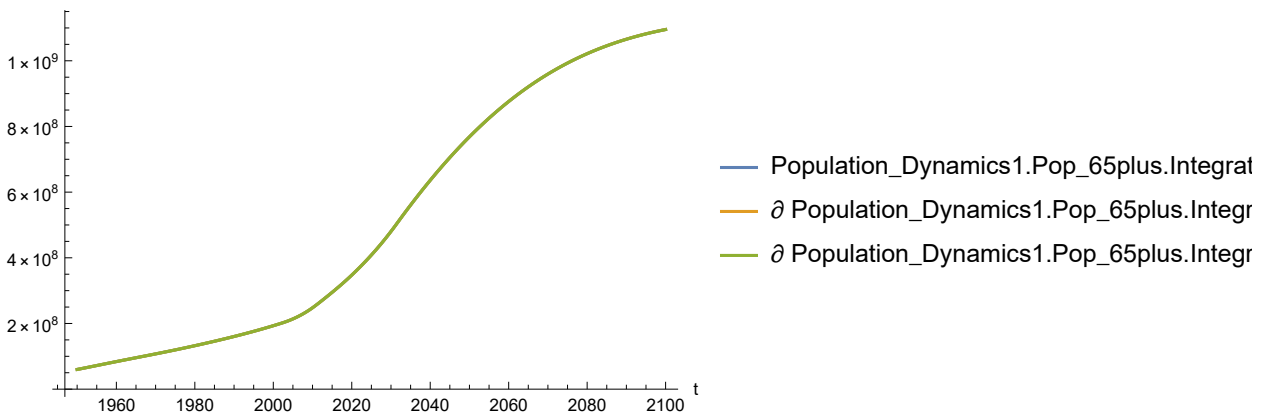
Out[304]:=



In[305]:=

```
SystemModelPlot[simsensdata, {"Population_Dynamics1.Pop_65plus.Integrator1.y",
"Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[5]", percentvar}]
```

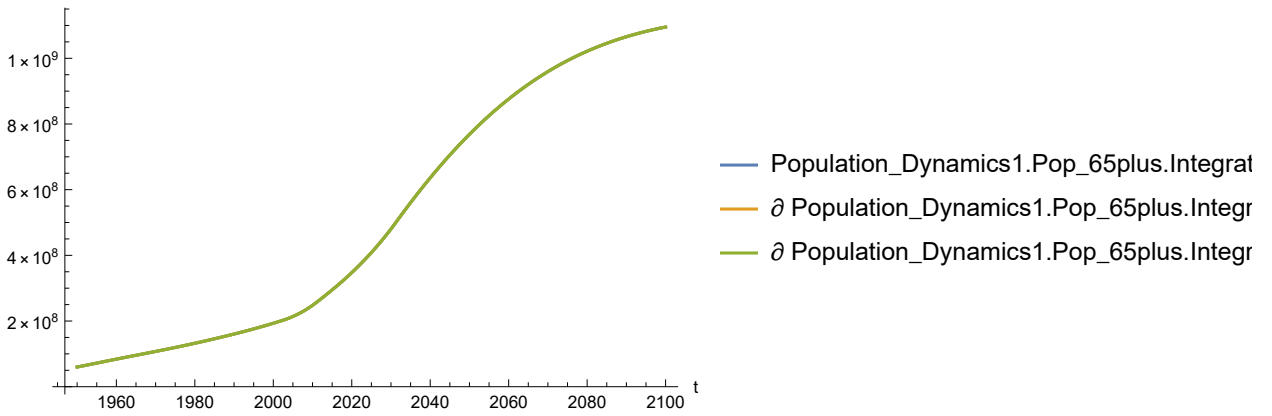
Out[305]:=



In[306]:=

```
SystemModelPlot[simsensdata, {"Population_Dynamics1.Pop_65plus.Integrator1.y",
"Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[6]", percentvar}]
```

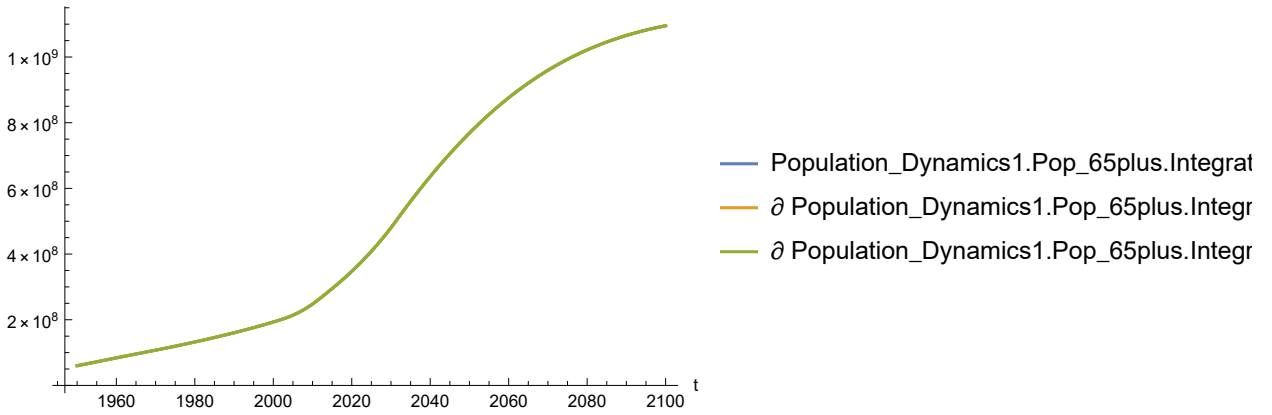
Out[306]=



In[307]:=

```
SystemModelPlot[simsensdata, {"Population_Dynamics1.Pop_65plus.Integrator1.y",
"Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[7]", percentvar}]
```

Out[307]=

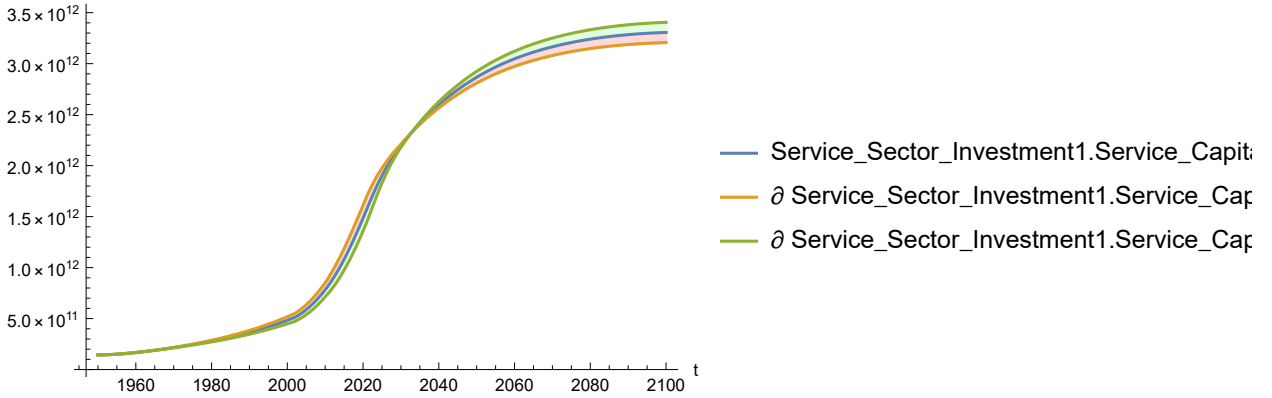


Plot sensitivity of Service_Sector_Investment1.Service_Capital.Integrator1.y to Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals.

In[308]:=

```
SystemModelPlot[simsensdata,
  {"Service_Sector_Investment1.Service_Capital.Integrator1.y",
   "Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[1]", percentvar}]
```

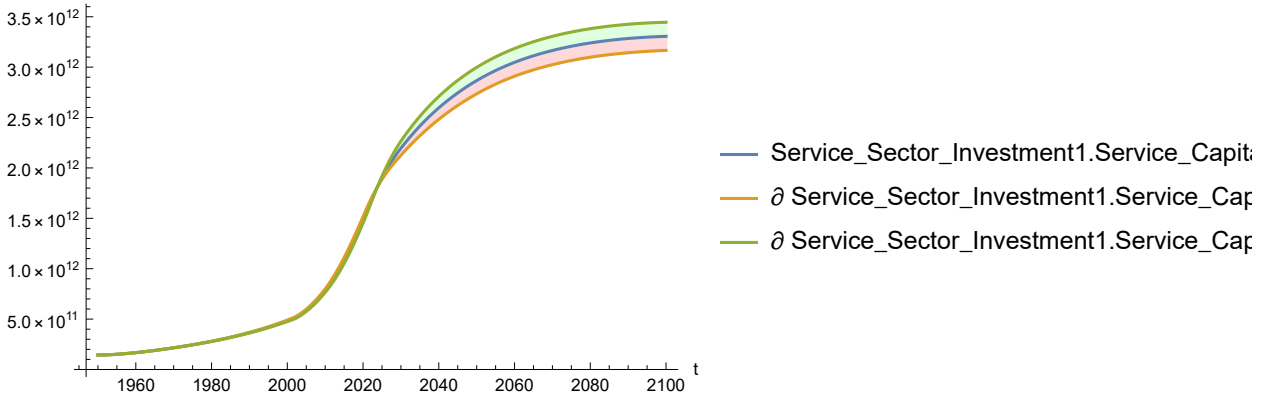
Out[308]=



In[309]:=

```
SystemModelPlot[simsensdata,
  {"Service_Sector_Investment1.Service_Capital.Integrator1.y",
   "Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[2]", percentvar}]
```

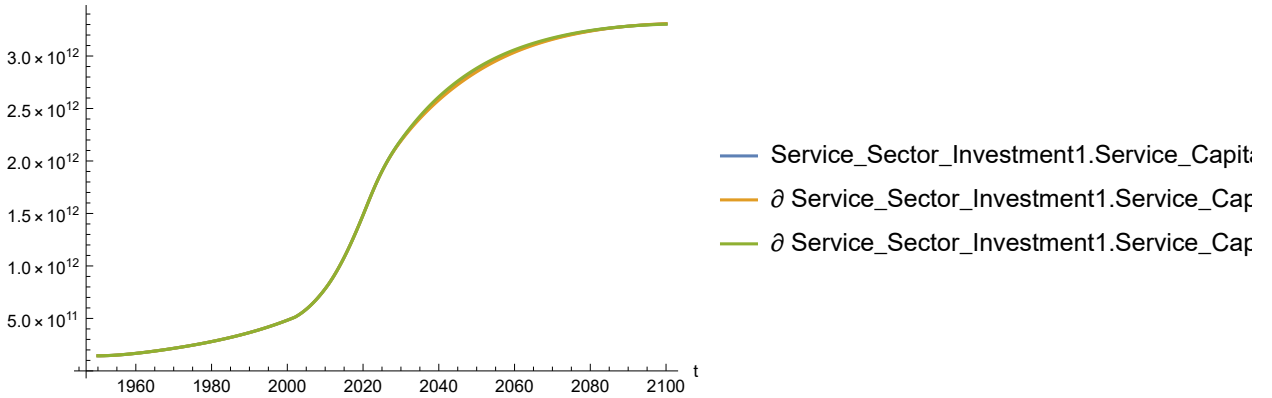
Out[309]=



In[310]:=

```
SystemModelPlot[simsensdata,
  {"Service_Sector_Investment1.Service_Capital.Integrator1.y",
   "Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[3]", percentvar}]
```

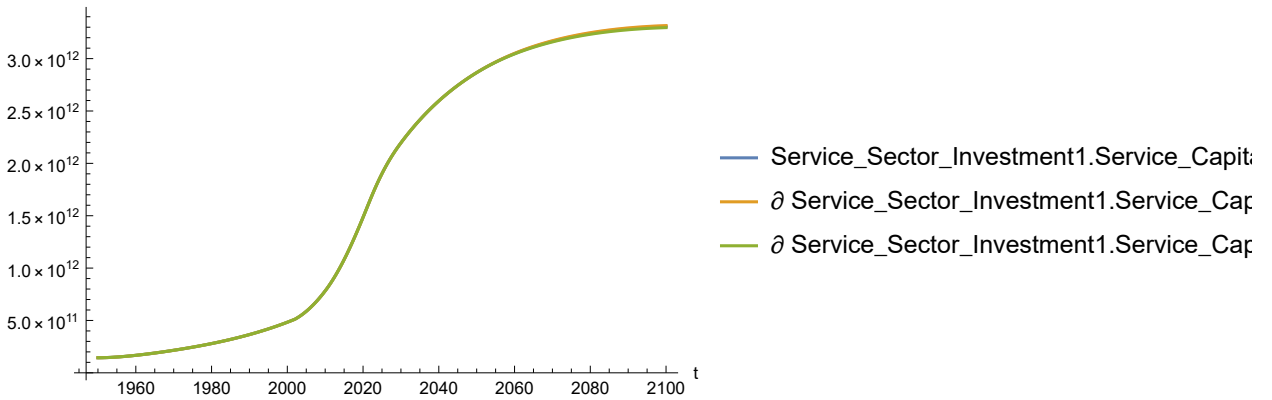
Out[310]=



In[311]:=

```
SystemModelPlot[simsensdata,
  {"Service_Sector_Investment1.Service_Capital.Integrator1.y",
   "Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[4]", percentvar}]
```

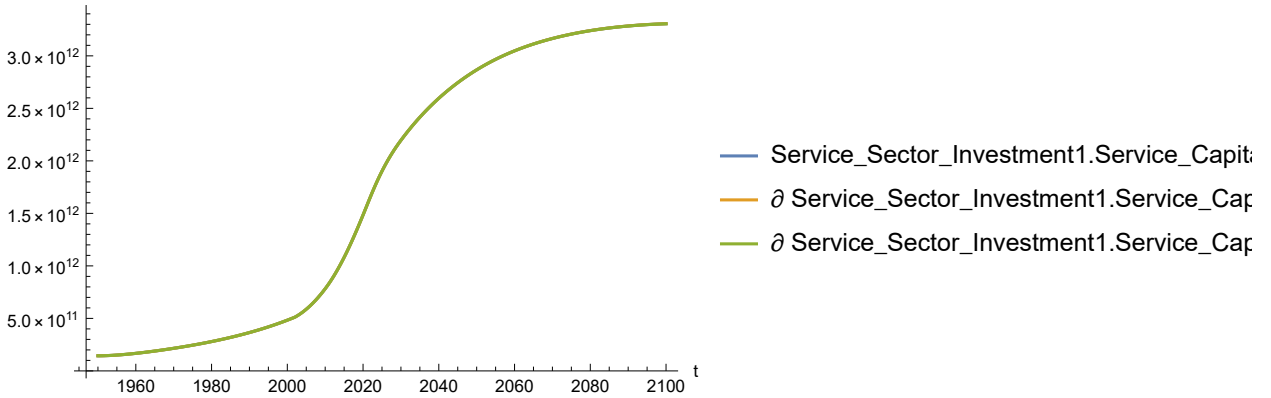
Out[311]=



In[312]:=

```
SystemModelPlot[simsensdata,
  {"Service_Sector_Investment1.Service_Capital.Integrator1.y",
   "Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[5]", percentvar}]
```

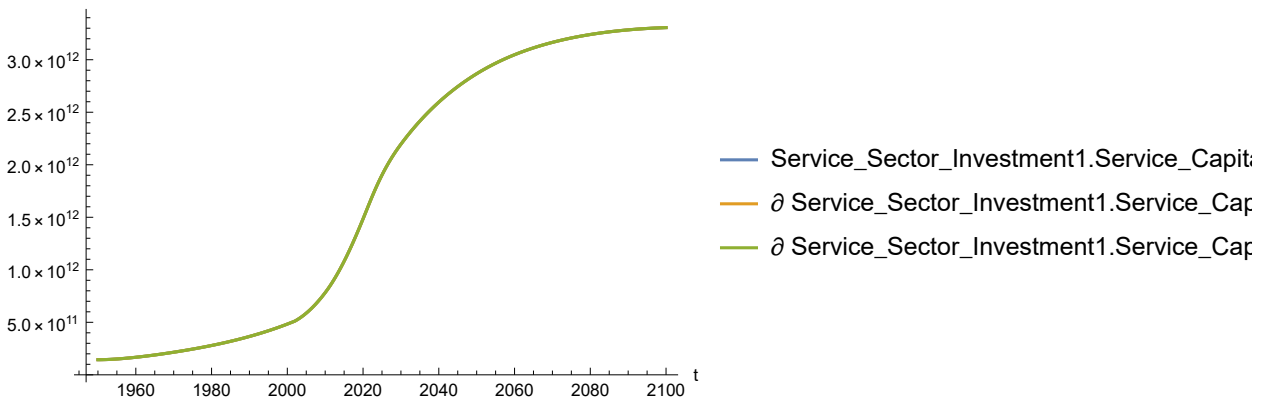
Out[312]=



In[313]:=

```
SystemModelPlot[simsensdata,
  {"Service_Sector_Investment1.Service_Capital.Integrator1.y",
   "Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[6]", percentvar}]
```

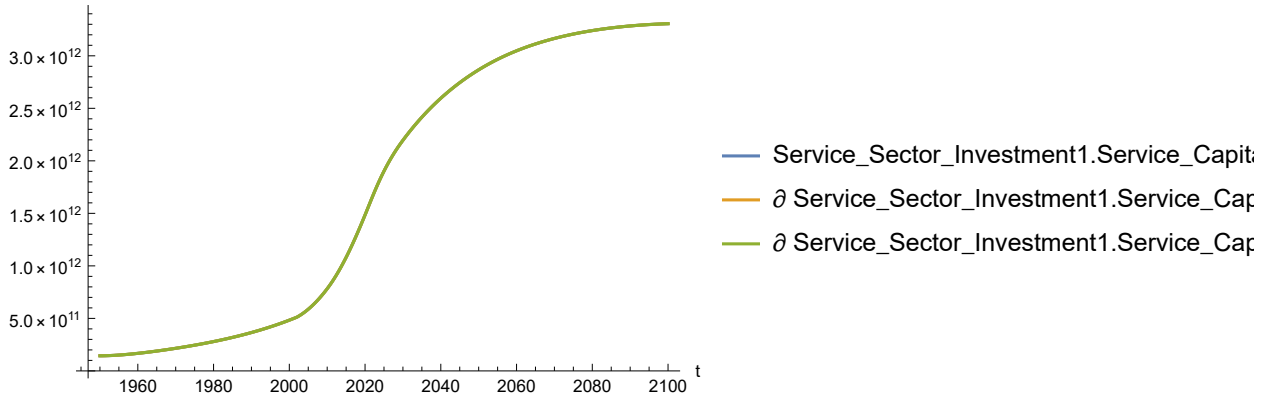
Out[313]=



In[314]:=

```
SystemModelPlot[simsensdata,
  {"Service_Sector_Investment1.Service_Capital.Integrator1.y",
   "Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[7]", percentvar}]
```

Out[314]=



Appendix 9. Experiment 9. Benchmark Scenario 9. Compute and plot sensitivity of various World3 variables to Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals values.

Last modified: 28 August 2022/0840 US CT.

Author: J. K. Horner
email: jhorner@cybermesa.com

Platform:

Windows 10

Wolfram Mathematica Home Version v13.1, dynamic updating enabled

Wolfram SystemModeler v12.0

Open Modelica v3.2.2

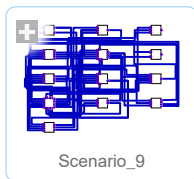
Microsoft Visual C++, version-compatible with the above

Load Benchmark Scenario 9.

In[2]=

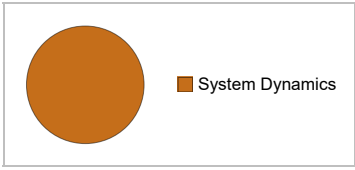
```
mysim = SystemModel["SystemDynamics.WorldDynamics.World3.Scenario_9"]
```

Out[2]=



Show high-level properties of the scenario.

In[3]:= **mysummary = mysim["Summary"]**

	Model	SystemDynamics.WorldDynamics.World3.Scenario_9
	Description	Combining the measures of Scenarios #6 and #8
	Simulation Interval	True
	Plot	0
	Cells	106
	Backend	True
Out[3]=	System	265
	System	265
	Diagram	

Set percent variation. 0.1 = nominal +/- 10%.

In[4]:= **percentvar = 0.1**

Out[4]= 0.1

Show the default **Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals**.

In[5]:= **SystemModel[mysim] [{"ParameterValues", "Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[1]"}]**

Out[5]= {Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[1] → 1}

In[6]:= **SystemModel[mysim] [{"ParameterValues", "Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[2]"}]**

Out[6]= {Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[2] → 1.5}

In[7]:= **SystemModel[mysim] [{"ParameterValues", "Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[3]"}]**

Out[7]= {Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[3] → 1.9}

In[8]:= **SystemModel[mysim] [{"ParameterValues", "Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[4]"}]**

Out[8]= {Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[4] → 2}


```
In[9]:= SystemModel[mysim] [
  {"ParameterValues", "Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[5]"}]
Out[9]= {Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[5] → 2}

In[10]:= SystemModel[mysim] [
  {"ParameterValues", "Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[6]"}]
Out[10]= {Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[6] → 2}

In[11]:= SystemModel[mysim] [
  {"ParameterValues", "Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[7]"}]
Out[11]= {Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[7] → 2}
```

Retrieve all variables that **SystemModelSimulateSensitivity** says depend on **Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals**. Set scenario start at 1950 because various **SystemModel** functions have problems with a step function at scenario time 1940. (This is a World3-specific quirk.)

```
In[12]:= simsensdata = SystemModelSimulateSensitivity[mysim,
  {1950, 2100}, {"Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[1]",
  "Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[2]",
  "Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[3]",
  "Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[4]",
  "Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[5]",
  "Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[6]",
  "Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[7]"}]
```

 **SystemModelSimulateSensitivity**: At time 2002. s: An event occurred while performing sensitivity analysis. This may produce incorrect results depending on your model. Further similar warnings will not be displayed.

Out[12]=

```
SystemModelSimulationData [  Model: Scenario_9
  Time: 1.95 × 103 to 2.10 × 103 ]
```

Show the names of the World3 variables in **simsensdata** that **SystemModelSimulateSensitivity** recognizes.

```
In[13]:= simsensdata["SensitivityNames"]
Out[13]= {{Arable_Land_Dynamics1.Arable_Land.Integrator1.y,
  Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[1]},
  {Arable_Land_Dynamics1.Arable_Land.Integrator1.y,
  Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[2]},
  {Arable_Land_Dynamics1.Arable_Land.Integrator1.y,
  Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[3]},
  {Arable_Land_Dynamics1.Arable_Land.Integrator1.y,
  Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[4]},
  {Arable_Land_Dynamics1.Arable_Land.Integrator1.y,
```

```

Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[5]},
{Arable_Land_Dynamics1.Arable_Land.Integrator1.y,
Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[6]},
{Arable_Land_Dynamics1.Arable_Land.Integrator1.y,
Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[7]},
{Arable_Land_Dynamics1.Pot_Arable_Land.Integrator1.y,
Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[1]},
{Arable_Land_Dynamics1.Pot_Arable_Land.Integrator1.y,
Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[2]},
{Arable_Land_Dynamics1.Pot_Arable_Land.Integrator1.y,
Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[3]},
{Arable_Land_Dynamics1.Pot_Arable_Land.Integrator1.y,
Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[4]},
{Arable_Land_Dynamics1.Pot_Arable_Land.Integrator1.y,
Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[5]},
{Arable_Land_Dynamics1.Pot_Arable_Land.Integrator1.y,
Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[6]},
{Arable_Land_Dynamics1.Pot_Arable_Land.Integrator1.y,
Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[7]},
{Arable_Land_Dynamics1.Urban_Ind_Land.Integrator1.y,
Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[1]},
{Arable_Land_Dynamics1.Urban_Ind_Land.Integrator1.y,
Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[2]},
{Arable_Land_Dynamics1.Urban_Ind_Land.Integrator1.y,
Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[3]},
{Arable_Land_Dynamics1.Urban_Ind_Land.Integrator1.y,
Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[4]},
{Arable_Land_Dynamics1.Urban_Ind_Land.Integrator1.y,
Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[5]},
{Arable_Land_Dynamics1.Urban_Ind_Land.Integrator1.y,
Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[6]},
{Arable_Land_Dynamics1.Urban_Ind_Land.Integrator1.y,
Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[7]},
{Food_Production1.Agr_Inp.Integrator1.y,
Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[1]},
{Food_Production1.Agr_Inp.Integrator1.y,
Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[2]},
{Food_Production1.Agr_Inp.Integrator1.y,
Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[3]},
{Food_Production1.Agr_Inp.Integrator1.y,
Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[4]},
{Food_Production1.Agr_Inp.Integrator1.y,
Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[5]},
{Food_Production1.Agr_Inp.Integrator1.y,
Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[6]},
{Food_Production1.Agr_Inp.Integrator1.y,
Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[7]},

```

```

{Food_Production1.P_Land_Yield_Fact_2.Smooth1.Integrator1.y,
 Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[1]},
{Food_Production1.P_Land_Yield_Fact_2.Smooth1.Integrator1.y,
 Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[2]},
{Food_Production1.P_Land_Yield_Fact_2.Smooth1.Integrator1.y,
 Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[3]},
{Food_Production1.P_Land_Yield_Fact_2.Smooth1.Integrator1.y,
 Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[4]},
{Food_Production1.P_Land_Yield_Fact_2.Smooth1.Integrator1.y,
 Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[5]},
{Food_Production1.P_Land_Yield_Fact_2.Smooth1.Integrator1.y,
 Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[6]},
{Food_Production1.P_Land_Yield_Fact_2.Smooth1.Integrator1.y,
 Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[7]},
{Food_Production1.P_Land_Yield_Fact_2.Smooth2.Integrator1.y,
 Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[1]},
{Food_Production1.P_Land_Yield_Fact_2.Smooth2.Integrator1.y,
 Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[2]},
{Food_Production1.P_Land_Yield_Fact_2.Smooth2.Integrator1.y,
 Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[3]},
{Food_Production1.P_Land_Yield_Fact_2.Smooth2.Integrator1.y,
 Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[4]},
{Food_Production1.P_Land_Yield_Fact_2.Smooth2.Integrator1.y,
 Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[5]},
{Food_Production1.P_Land_Yield_Fact_2.Smooth2.Integrator1.y,
 Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[6]},
{Food_Production1.P_Land_Yield_Fact_2.Smooth2.Integrator1.y,
 Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[7]},
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 Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[1]},
{Food_Production1.P_Land_Yield_Fact_2.Smooth3.Integrator1.y,
 Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[2]},
{Food_Production1.P_Land_Yield_Fact_2.Smooth3.Integrator1.y,
 Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[3]},
{Food_Production1.P_Land_Yield_Fact_2.Smooth3.Integrator1.y,
 Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[4]},
{Food_Production1.P_Land_Yield_Fact_2.Smooth3.Integrator1.y,
 Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[5]},
{Food_Production1.P_Land_Yield_Fact_2.Smooth3.Integrator1.y,
 Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[6]},
{Food_Production1.P_Land_Yield_Fact_2.Smooth3.Integrator1.y,
 Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[7]},
{Food_Production1.Perc_Food_Ratio.Integrator1.y,
 Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[1]},
{Food_Production1.Perc_Food_Ratio.Integrator1.y,
 Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[2]},
{Food_Production1.Perc_Food_Ratio.Integrator1.y,

```

```

Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[3]},
{Food_Production1.Perc_Food_Ratio.Integrator1.y,
Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[4]},
{Food_Production1.Perc_Food_Ratio.Integrator1.y,
Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[5]},
{Food_Production1.Perc_Food_Ratio.Integrator1.y,
Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[6]},
{Food_Production1.Perc_Food_Ratio.Integrator1.y,
Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[7]},
{Human_Fertility1.Avg_Ind_Out_PC.Smooth_of_Input.Integrator1.y,
Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[1]},
{Human_Fertility1.Avg_Ind_Out_PC.Smooth_of_Input.Integrator1.y,
Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[2]},
{Human_Fertility1.Avg_Ind_Out_PC.Smooth_of_Input.Integrator1.y,
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Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[4]},
{Human_Fertility1.Avg_Ind_Out_PC.Smooth_of_Input.Integrator1.y,
Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[5]},
{Human_Fertility1.Avg_Ind_Out_PC.Smooth_of_Input.Integrator1.y,
Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[6]},
{Human_Fertility1.Avg_Ind_Out_PC.Smooth_of_Input.Integrator1.y,
Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[7]},
{Human_Fertility1.Del_Ind_Out_PC.Smooth1.Integrator1.y,
Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[1]},
{Human_Fertility1.Del_Ind_Out_PC.Smooth1.Integrator1.y,
Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[2]},
{Human_Fertility1.Del_Ind_Out_PC.Smooth1.Integrator1.y,
Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[3]},
{Human_Fertility1.Del_Ind_Out_PC.Smooth1.Integrator1.y,
Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[4]},
{Human_Fertility1.Del_Ind_Out_PC.Smooth1.Integrator1.y,
Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[5]},
{Human_Fertility1.Del_Ind_Out_PC.Smooth1.Integrator1.y,
Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[6]},
{Human_Fertility1.Del_Ind_Out_PC.Smooth1.Integrator1.y,
Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[7]},
{Human_Fertility1.Del_Ind_Out_PC.Smooth2.Integrator1.y,
Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[1]},
{Human_Fertility1.Del_Ind_Out_PC.Smooth2.Integrator1.y,
Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[2]},
{Human_Fertility1.Del_Ind_Out_PC.Smooth2.Integrator1.y,
Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[3]},
{Human_Fertility1.Del_Ind_Out_PC.Smooth2.Integrator1.y,
Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[4]},
{Human_Fertility1.Del_Ind_Out_PC.Smooth2.Integrator1.y,
Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[5]},

```

```

{Human_Fertility1.Del_Ind_Out_PC.Smooth2.Integrator1.y,
 Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[6]},
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Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[6]},
{Pollution_Dynamics1.P_PPoll_Gen_Fact_2.Smooth3.Integrator1.y,
Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[7]},
{Pollution_Dynamics1.Pers_Pollution.Integrator1.y,
Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[1]},
{Pollution_Dynamics1.Pers_Pollution.Integrator1.y,
Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[2]},
{Pollution_Dynamics1.Pers_Pollution.Integrator1.y,
Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[3]},
{Pollution_Dynamics1.Pers_Pollution.Integrator1.y,
Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[4]},
{Pollution_Dynamics1.Pers_Pollution.Integrator1.y,
Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[5]},
{Pollution_Dynamics1.Pers_Pollution.Integrator1.y,
Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[6]},
{Pollution_Dynamics1.Pers_Pollution.Integrator1.y,
Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[7]},
{Population_Dynamics1.Pop_0_14.Integrator1.y,
Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[1]},
{Population_Dynamics1.Pop_0_14.Integrator1.y,
Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[2]},
{Population_Dynamics1.Pop_0_14.Integrator1.y,
Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[3]},
{Population_Dynamics1.Pop_0_14.Integrator1.y,
Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[4]},
{Population_Dynamics1.Pop_0_14.Integrator1.y,
Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[5]},
{Population_Dynamics1.Pop_0_14.Integrator1.y,
Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[6]},
{Population_Dynamics1.Pop_0_14.Integrator1.y,
Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[7]},
{Population_Dynamics1.Pop_15_44.Integrator1.y,
Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[1]},
{Population_Dynamics1.Pop_15_44.Integrator1.y,
Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[2]},
{Population_Dynamics1.Pop_15_44.Integrator1.y,
Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[3]},
{Population_Dynamics1.Pop_15_44.Integrator1.y,
Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[4]},

```

```

{Population_Dynamics1.Pop_15_44.Integrator1.y,
 Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[5]},
{Population_Dynamics1.Pop_15_44.Integrator1.y,
 Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[6]},
{Population_Dynamics1.Pop_15_44.Integrator1.y,
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{Population_Dynamics1.Pop_45_64.Integrator1.y,
 Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[1]},
{Population_Dynamics1.Pop_45_64.Integrator1.y,
 Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[2]},
{Population_Dynamics1.Pop_45_64.Integrator1.y,
 Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[3]},
{Population_Dynamics1.Pop_45_64.Integrator1.y,
 Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[4]},
{Population_Dynamics1.Pop_45_64.Integrator1.y,
 Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[5]},
{Population_Dynamics1.Pop_45_64.Integrator1.y,
 Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[6]},
{Population_Dynamics1.Pop_45_64.Integrator1.y,
 Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[7]},
{Population_Dynamics1.Pop_65plus.Integrator1.y,
 Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[1]},
{Population_Dynamics1.Pop_65plus.Integrator1.y,
 Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[2]},
{Population_Dynamics1.Pop_65plus.Integrator1.y,
 Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[3]},
{Population_Dynamics1.Pop_65plus.Integrator1.y,
 Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[4]},
{Population_Dynamics1.Pop_65plus.Integrator1.y,
 Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[5]},
{Population_Dynamics1.Pop_65plus.Integrator1.y,
 Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[6]},
{Population_Dynamics1.Pop_65plus.Integrator1.y,
 Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[7]},
{Service_Sector_Investment1.Service_Capital.Integrator1.y,
 Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[1]},
{Service_Sector_Investment1.Service_Capital.Integrator1.y,
 Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[2]},
{Service_Sector_Investment1.Service_Capital.Integrator1.y,
 Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[3]},
{Service_Sector_Investment1.Service_Capital.Integrator1.y,
 Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[4]},
{Service_Sector_Investment1.Service_Capital.Integrator1.y,
 Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[5]},
{Service_Sector_Investment1.Service_Capital.Integrator1.y,
 Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[6]},
{Service_Sector_Investment1.Service_Capital.Integrator1.y,

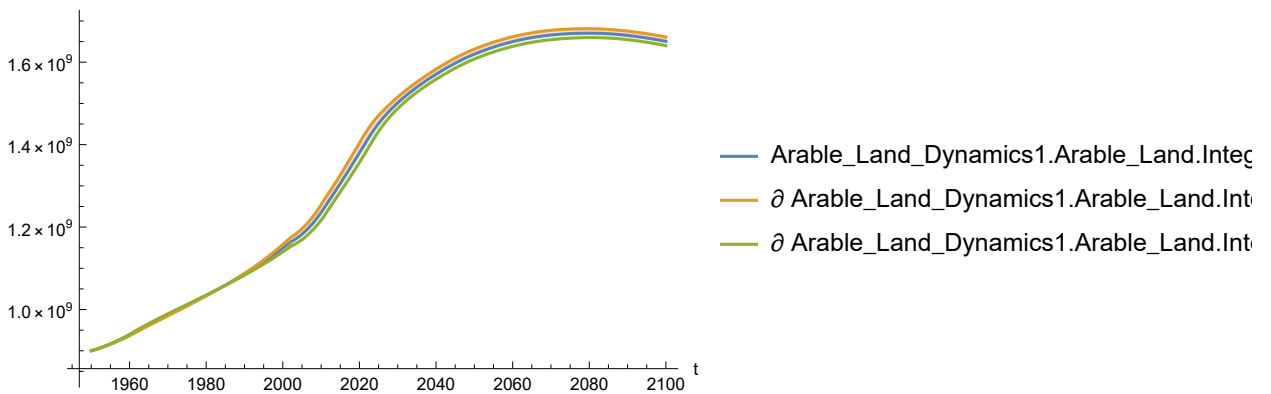
```

Programming note: in Mathematica, the following list of **SystemModelPlot** instructions could be replaced by a loop or iteration construct that cycles over **simsensdata**. The resulting source code would be elegant, but upon execution it turns out to have dynamic updating issues that the Platform described above does not handle well.

Plot the sensitivity of `Arable_Land_Dynamics1.Arable_Land.Integrator1.y` to `Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals`.

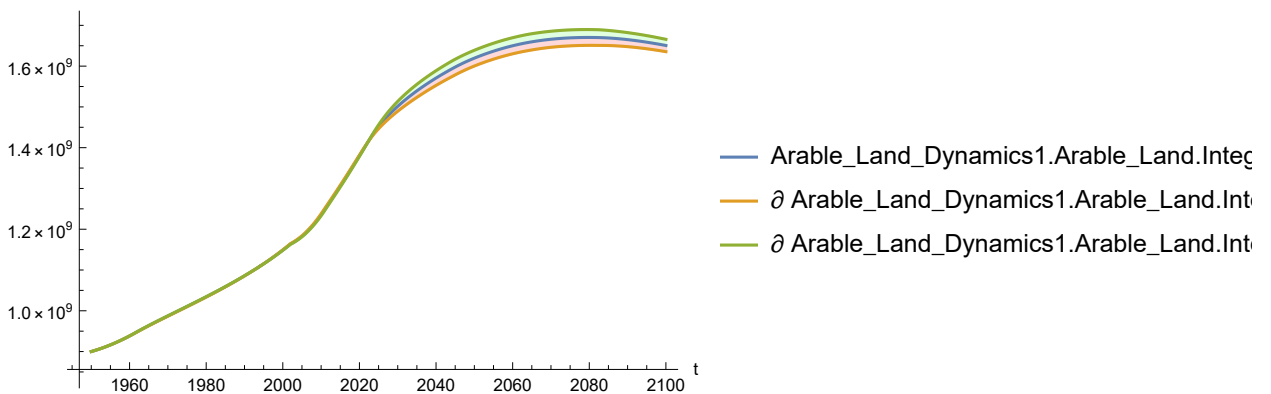
```
In[14]:= SystemModelPlot[simsensdata, {"Arable_Land_Dynamics1.Arable_Land.Integrator1.y",
  "Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[1]", percentvar}]
```

Out[14]=



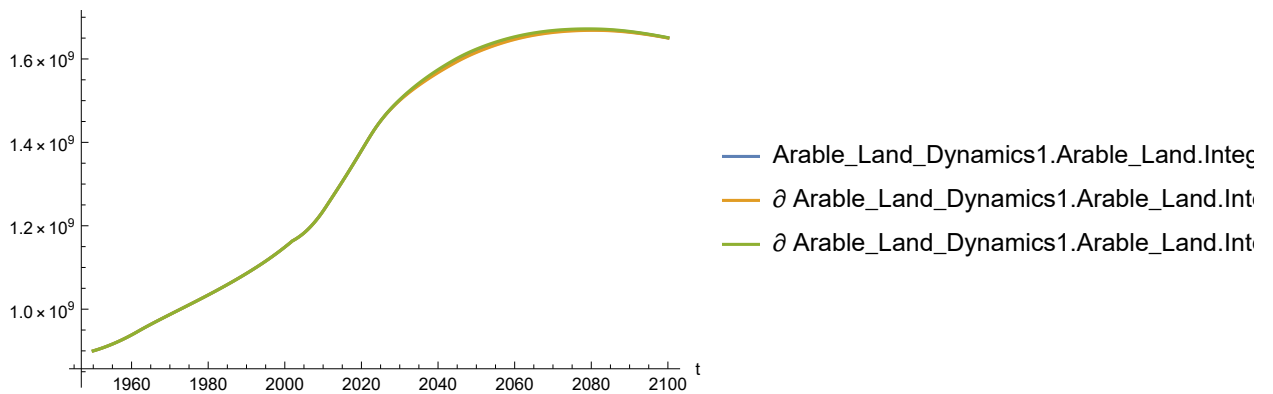
```
In[15]:= SystemModelPlot[simsensdata, {"Arable_Land_Dynamics1.Arable_Land.Integrator1.y",
  "Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[2]", percentvar}]
```

Out[15]=



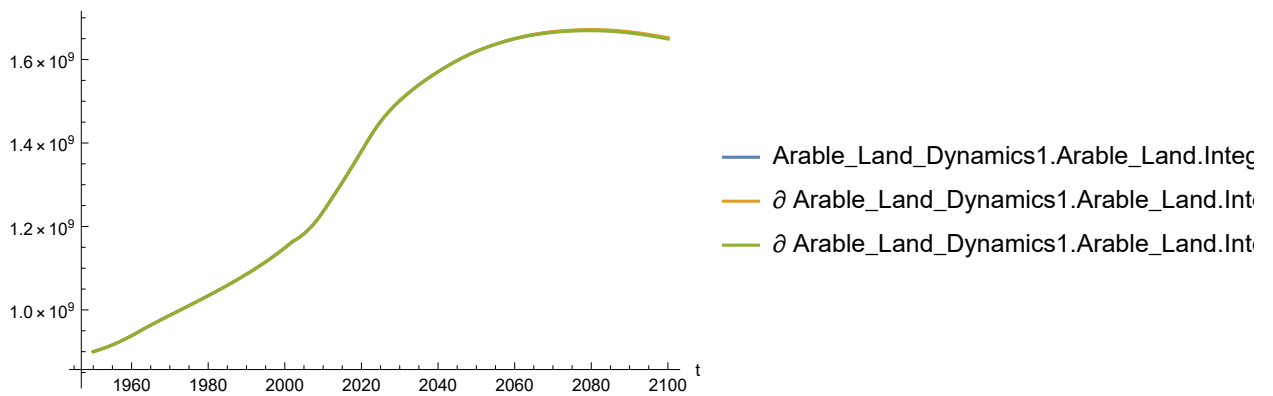
```
In[16]:= SystemModelPlot[simsensdata, {"Arable_Land_Dynamics1.Arable_Land.Integrator1.y",
"Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[3]", percentvar}]
```

Out[16]=



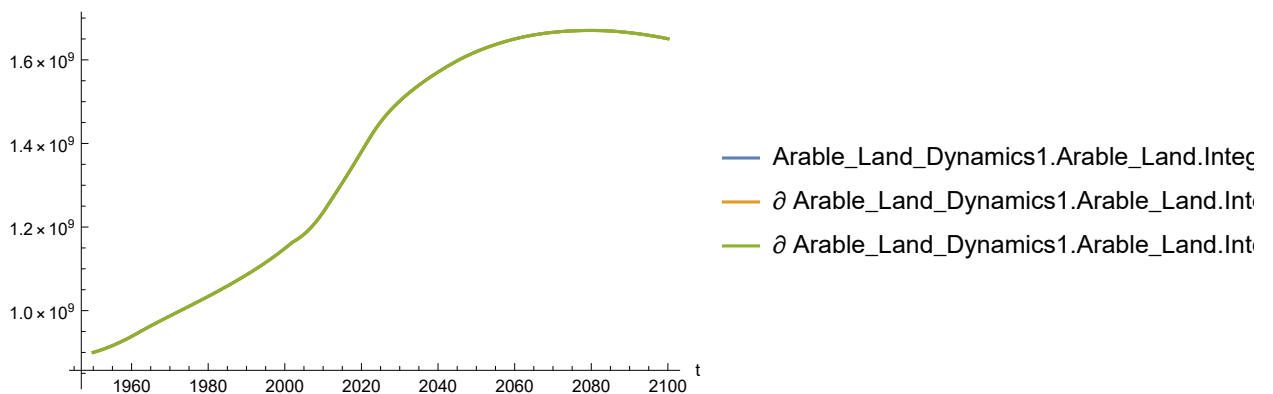
```
In[17]:= SystemModelPlot[simsensdata, {"Arable_Land_Dynamics1.Arable_Land.Integrator1.y",
"Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[4]", percentvar}]
```

Out[17]=



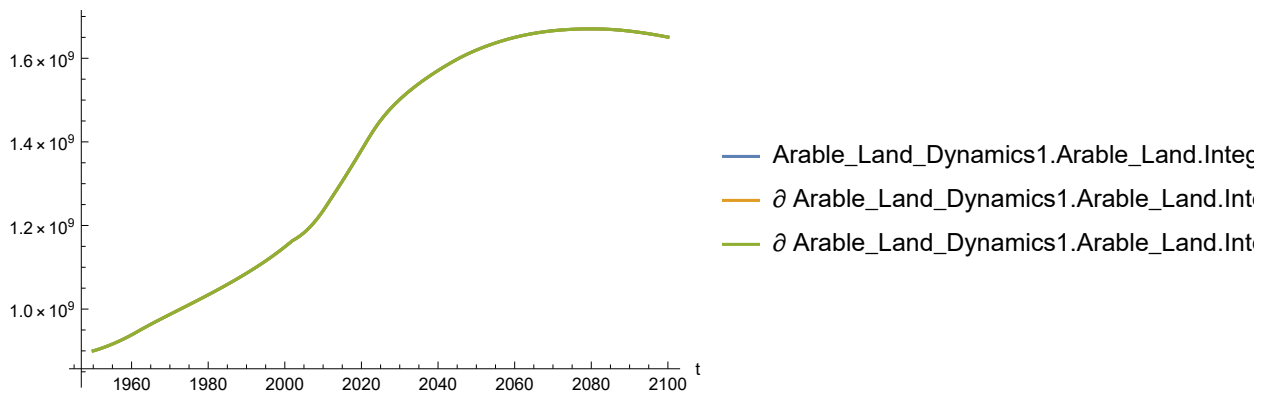
```
In[18]:= SystemModelPlot[simsensdata, {"Arable_Land_Dynamics1.Arable_Land.Integrator1.y",
"Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[5]", percentvar}]
```

Out[18]=



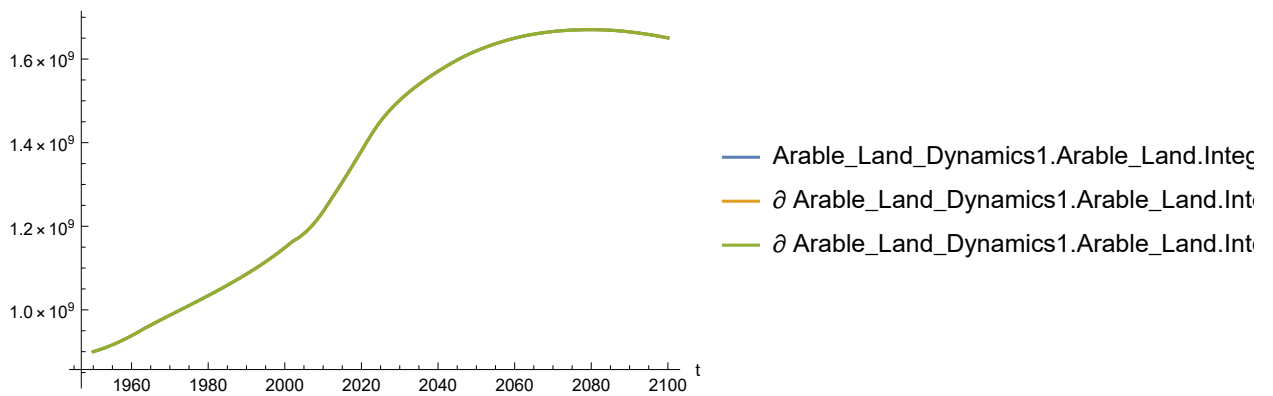

```
In[19]:= SystemModelPlot[simsensdata, {"Arable_Land_Dynamics1.Arable_Land.Integrator1.y",
"Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[6]", percentvar}]
```

Out[19]=



```
In[20]:= SystemModelPlot[simsensdata, {"Arable_Land_Dynamics1.Arable_Land.Integrator1.y",
"Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[7]", percentvar}]
```

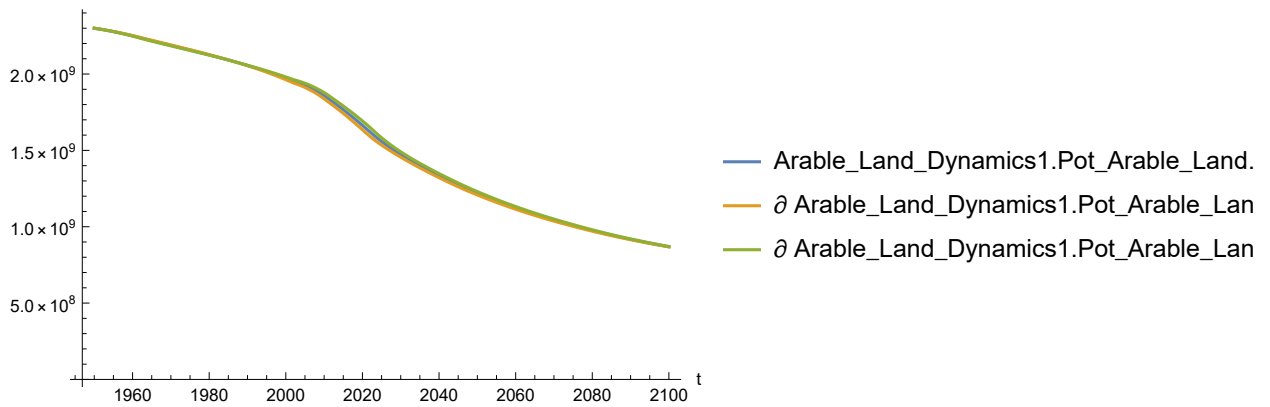
Out[20]=



Plot the sensitivity of Arable_Land_Dynamics1.Pot_Arable_Land.Integrator1.y to Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals.

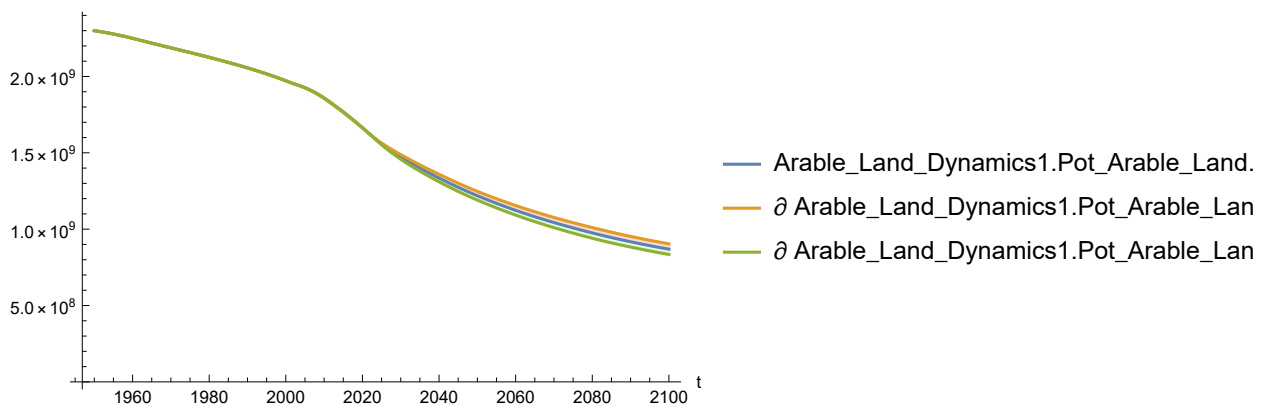
```
In[21]:= SystemModelPlot[simsensdata, {"Arable_Land_Dynamics1.Pot_Arable_Land.Integrator1.y",
"Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[1]", percentvar}]
```

Out[21]=



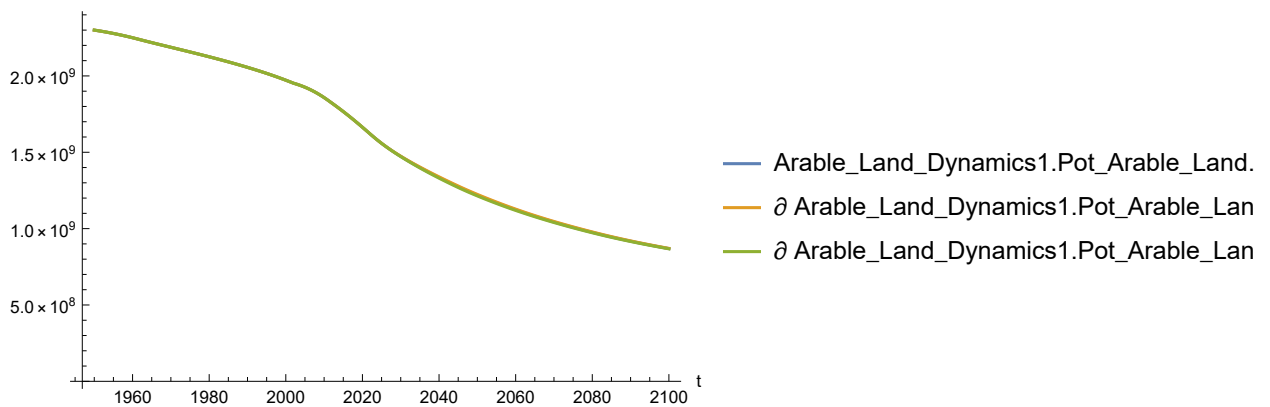
```
In[22]:= SystemModelPlot[simsensdata, {"Arable_Land_Dynamics1.Pot_Arable_Land.Integrator1.y",
"Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[2]", percentvar}]
```

Out[22]=



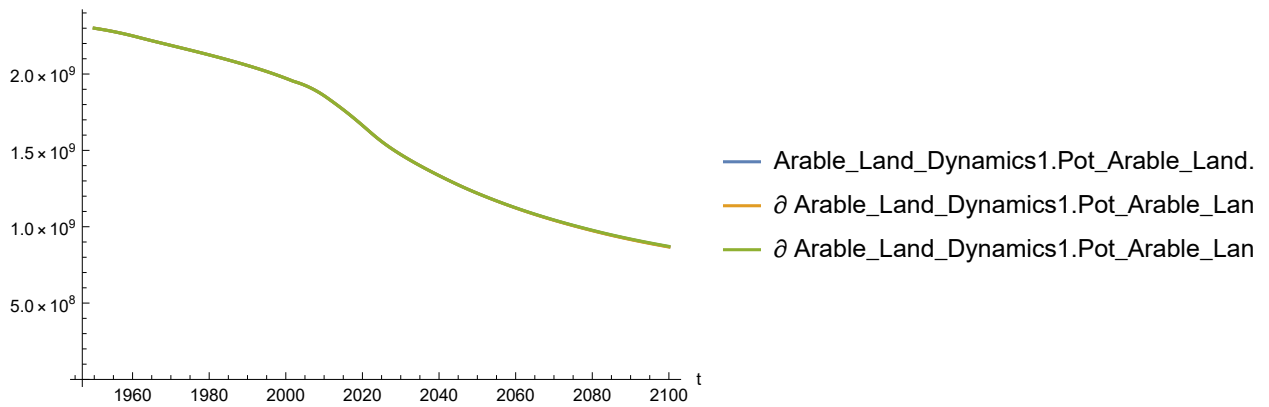
```
In[23]:= SystemModelPlot[simsensdata, {"Arable_Land_Dynamics1.Pot_Arable_Land.Integrator1.y",
"Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[3]", percentvar}]
```

Out[23]=



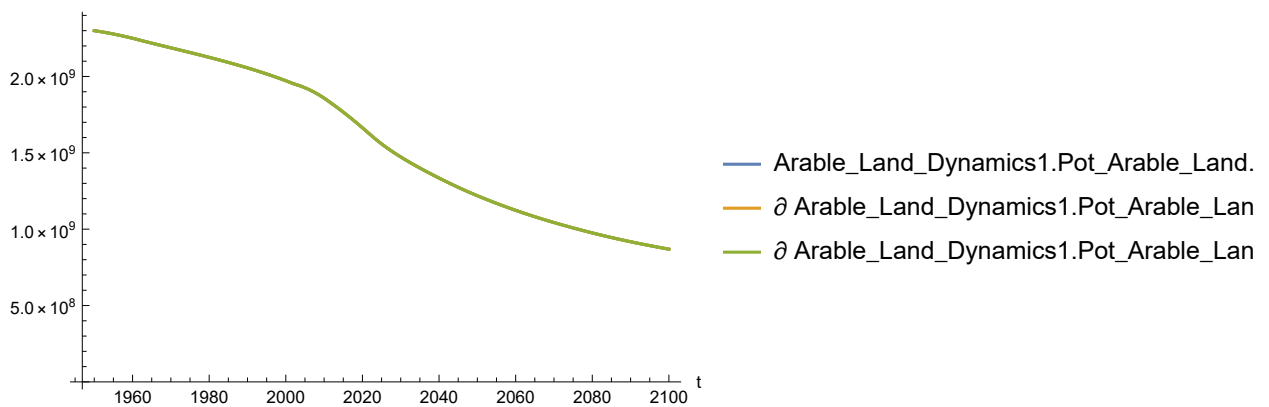
```
In[24]:= SystemModelPlot[simsensdata, {"Arable_Land_Dynamics1.Pot_Arable_Land.Integrator1.y",
"Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[4]", percentvar}]
```

Out[24]=



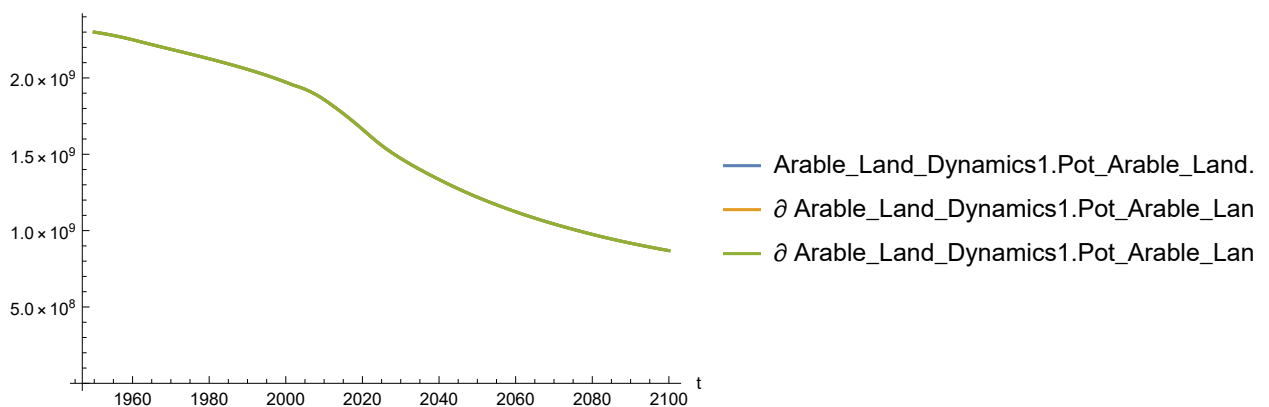
```
In[25]:= SystemModelPlot[simsensdata, {"Arable_Land_Dynamics1.Pot_Arable_Land.Integrator1.y",
"Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[5]", percentvar}]
```

Out[25]=



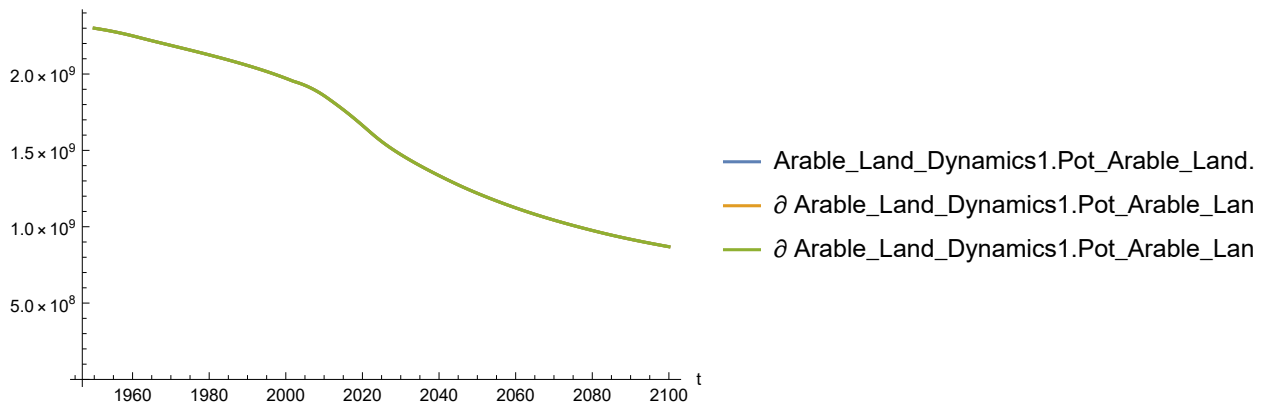
```
In[26]:= SystemModelPlot[simsensdata, {"Arable_Land_Dynamics1.Pot_Arable_Land.Integrator1.y",
"Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[6]", percentvar}]
```

Out[26]=



```
In[27]:= SystemModelPlot[simsensdata, {"Arable_Land_Dynamics1.Pot_Arable_Land.Integrator1.y",
"Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[7]", percentvar}]
```

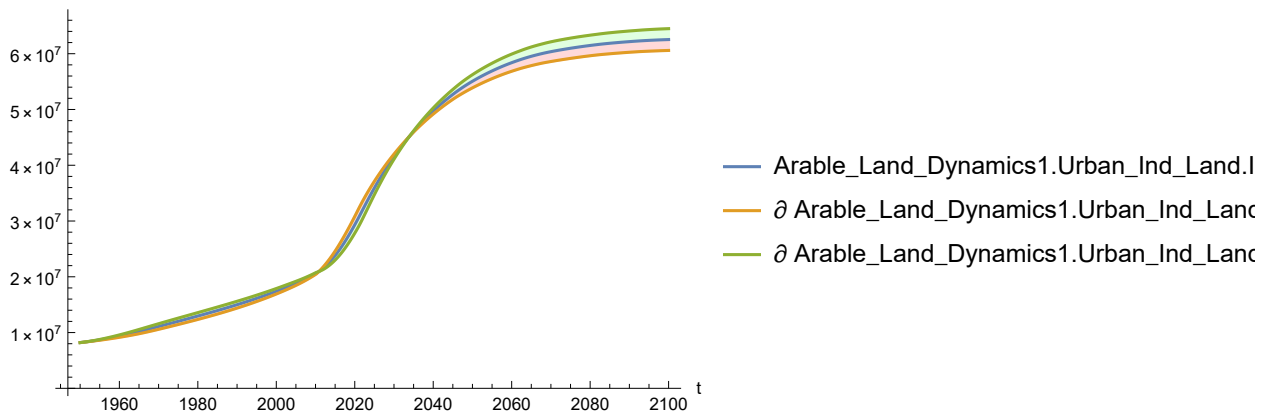
Out[27]=



Plot the sensitivity of Arable_Land_Dynamics1.Urban_Ind_Land.Integrator1.y to Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals.

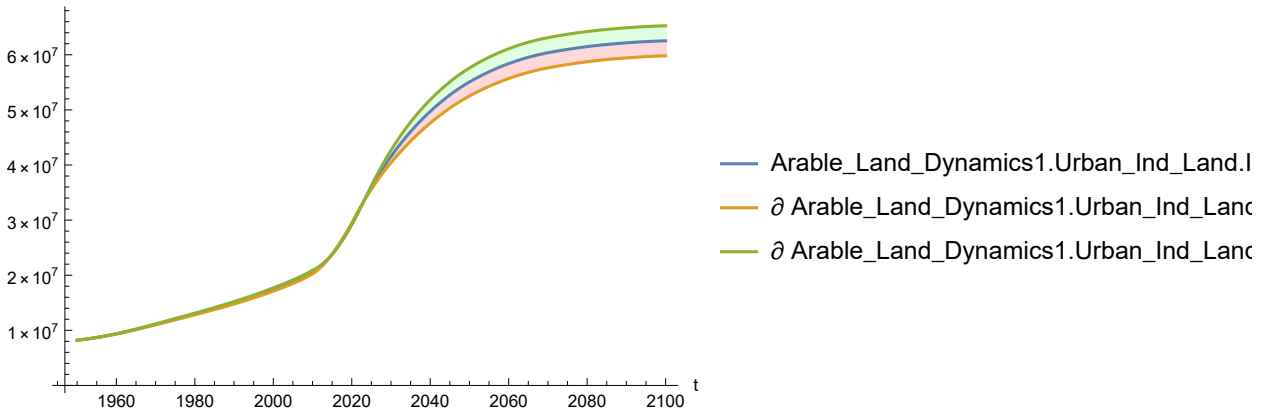
```
In[28]:= SystemModelPlot[simsensdata, {"Arable_Land_Dynamics1.Urban_Ind_Land.Integrator1.y",
"Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[1]", percentvar}]
```

Out[28]=



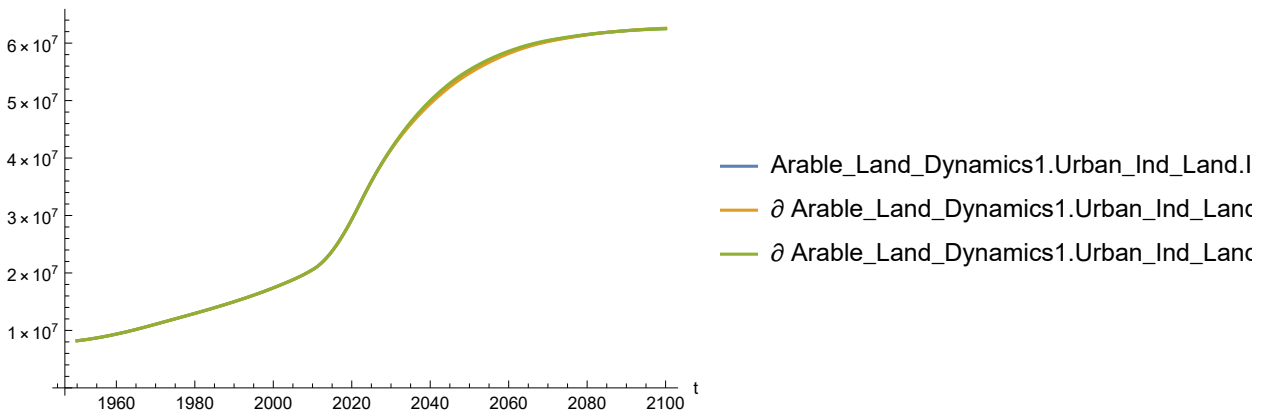
```
In[29]:= SystemModelPlot[simsensdata, {"Arable_Land_Dynamics1.Urban_Ind_Land.Integrator1.y",
"Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[2]", percentvar}]
```

Out[29]=



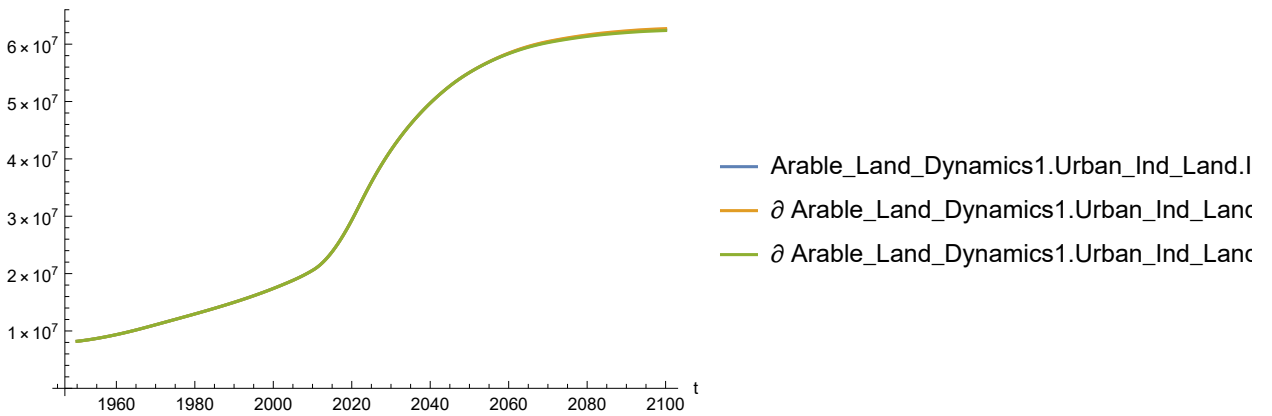
```
In[30]:= SystemModelPlot[simsensdata, {"Arable_Land_Dynamics1.Urban_Ind_Land.Integrator1.y",
"Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[3]", percentvar}]
```

Out[30]=



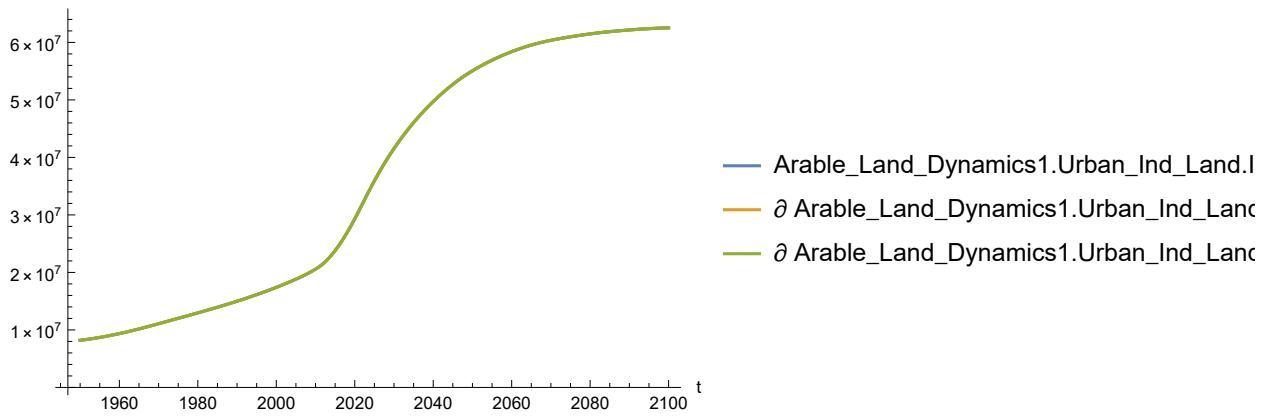
```
In[31]:= SystemModelPlot[simsensdata, {"Arable_Land_Dynamics1.Urban_Ind_Land.Integrator1.y",
"Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[4]", percentvar}]
```

Out[31]=



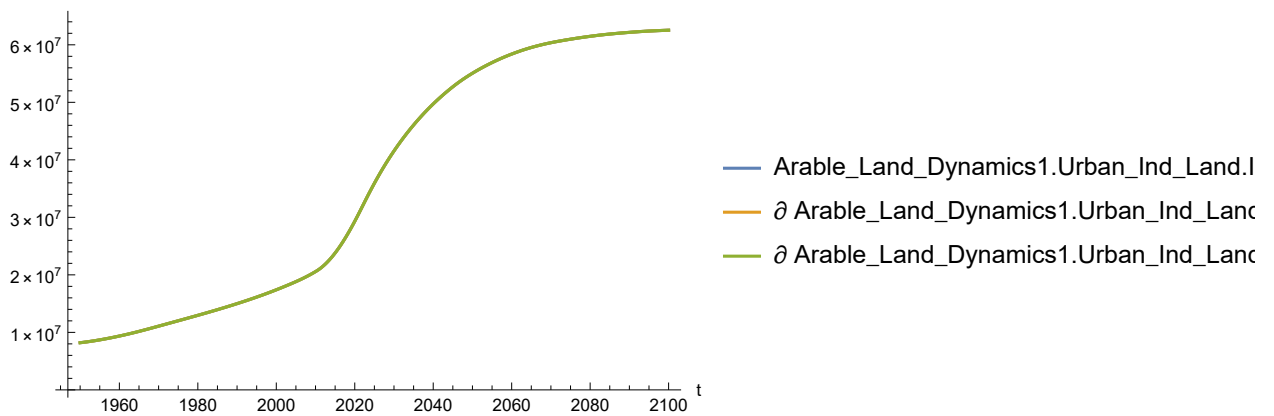
```
In[32]:= SystemModelPlot[simsensdata, {"Arable_Land_Dynamics1.Urban_Ind_Land.Integrator1.y",
"Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[5]", percentvar}]
```

Out[32]=



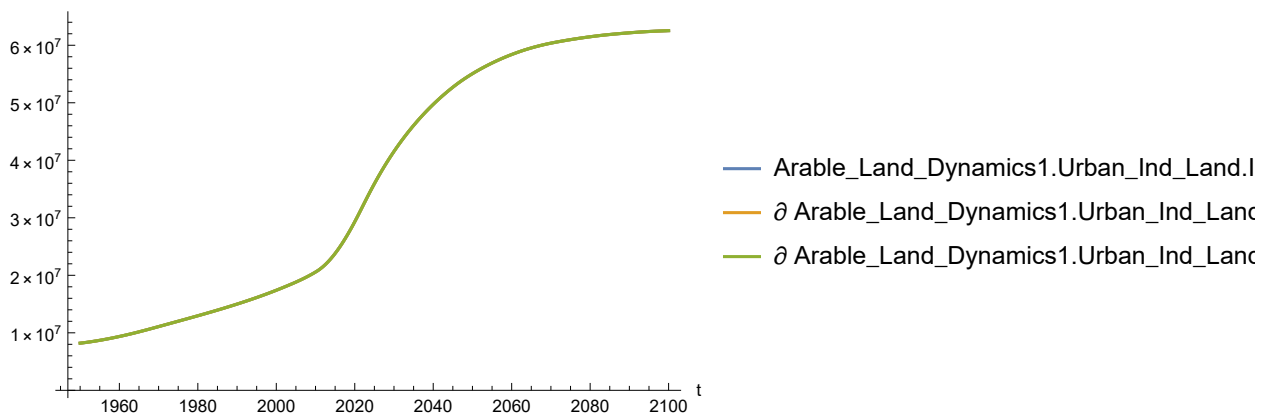
```
In[33]:= SystemModelPlot[simsensdata, {"Arable_Land_Dynamics1.Urban_Ind_Land.Integrator1.y",
"Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[6]", percentvar}]
```

Out[33]=



```
In[34]:= SystemModelPlot[simsensdata, {"Arable_Land_Dynamics1.Urban_Ind_Land.Integrator1.y",
"Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[7]", percentvar}]
```

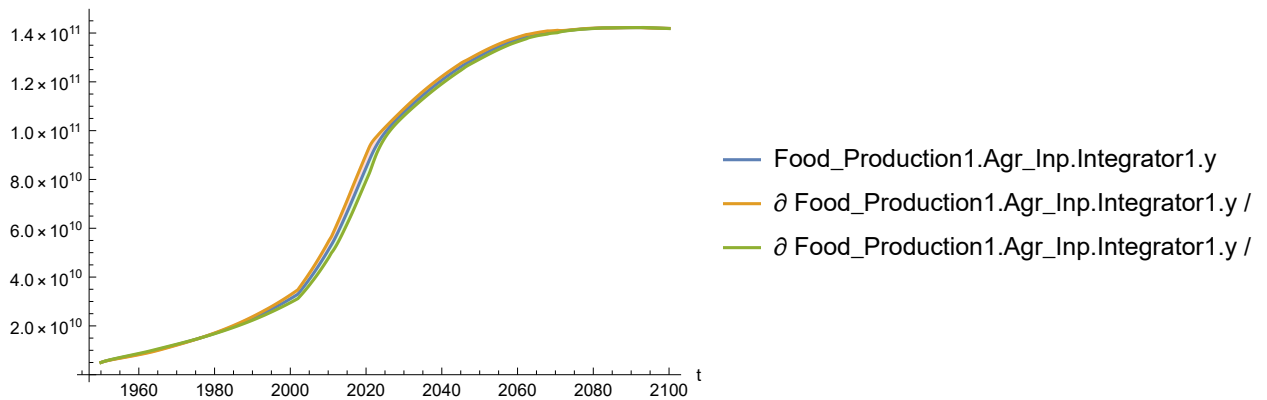
Out[34]=



Plot sensitivity of Food_Production.Agr_Inp.Integrator1.y to **Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals**.

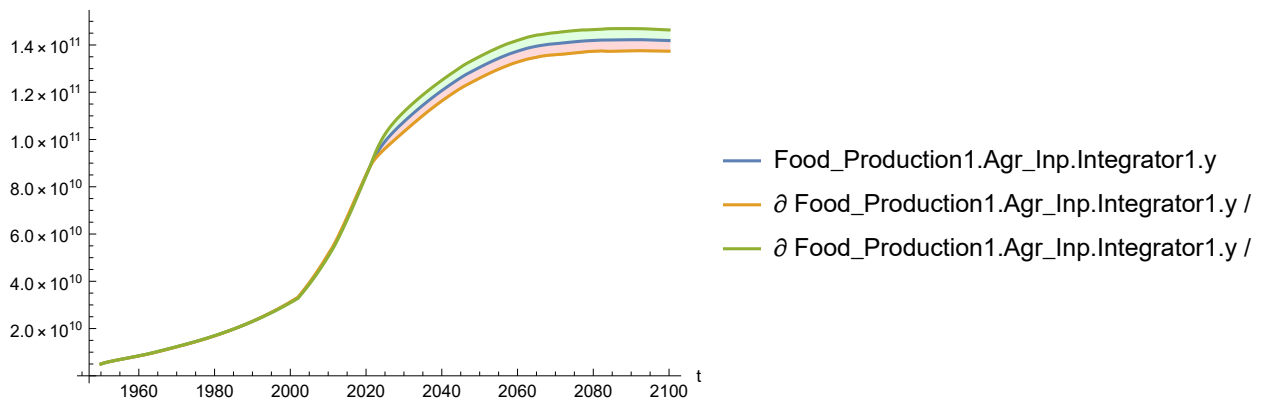
```
In[35]:= SystemModelPlot[simsensdata, {"Food_Production1.Agr_Inp.Integrator1.y",
  "Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[1]", percentvar}]
```

Out[35]=



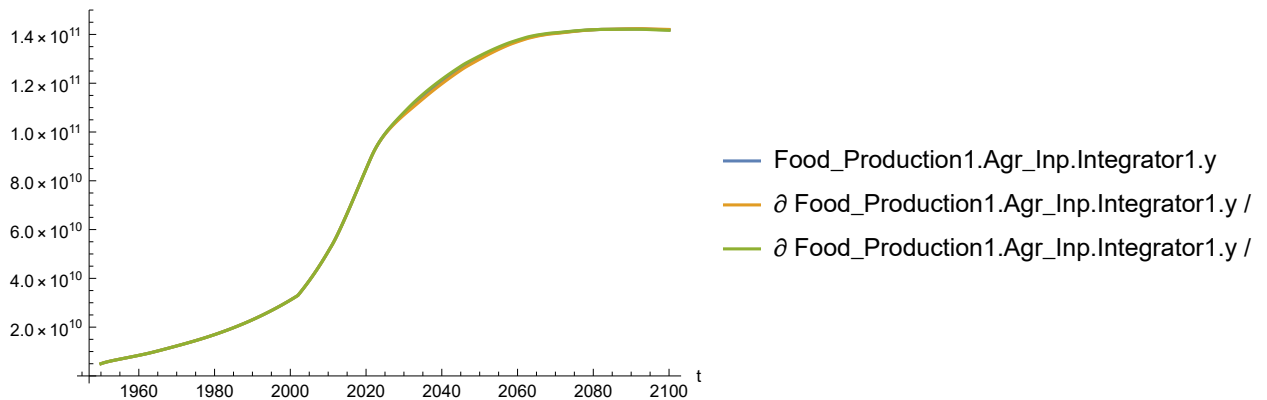
```
In[36]:= SystemModelPlot[simsensdata, {"Food_Production1.Agr_Inp.Integrator1.y",
  "Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[2]", percentvar}]
```

Out[36]=



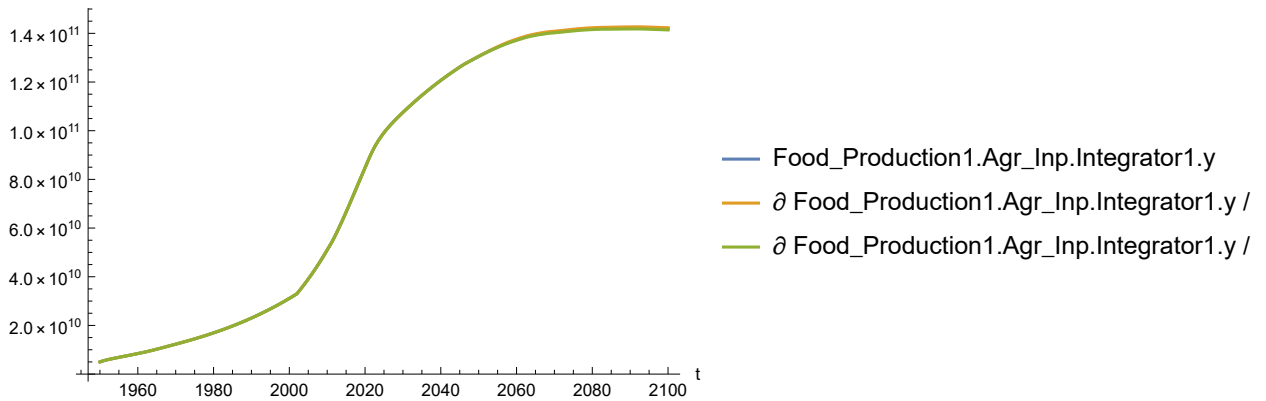
```
In[37]:= SystemModelPlot[simsensdata, {"Food_Production1.Agr_Inp.Integrator1.y",
  "Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[3]", percentvar}]
```

Out[37]=



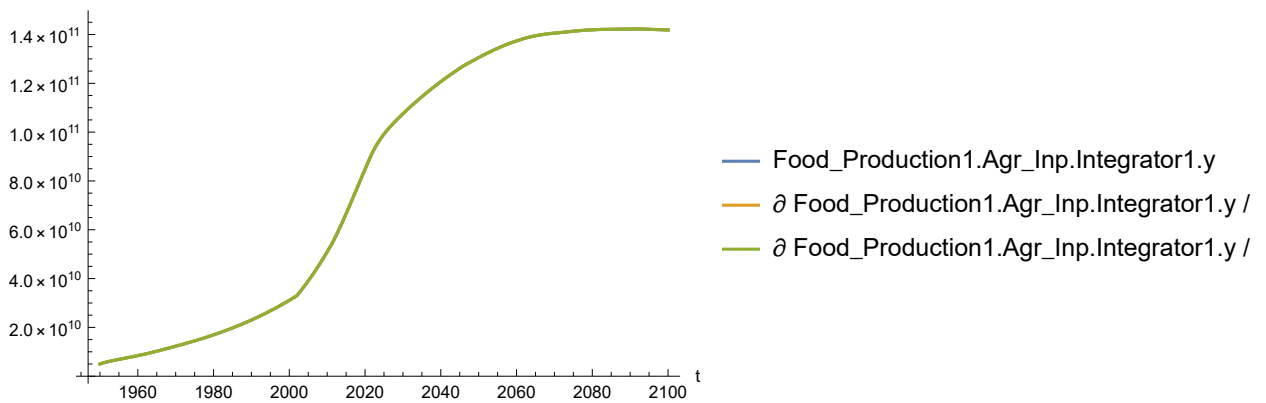
```
In[38]:= SystemModelPlot[simsensdata, {"Food_Production1.Agr_Inp.Integrator1.y",
"Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[4]", percentvar}]
```

Out[38]=



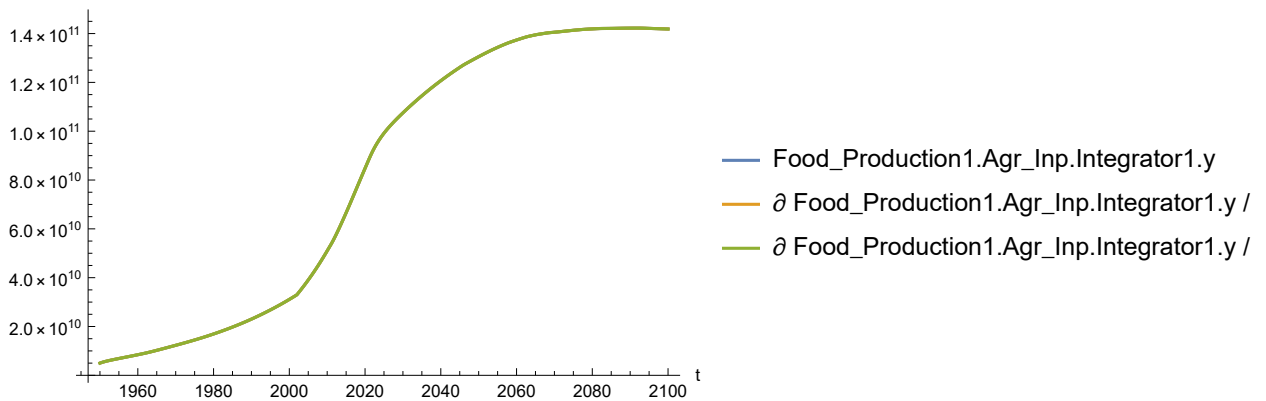
```
In[39]:= SystemModelPlot[simsensdata, {"Food_Production1.Agr_Inp.Integrator1.y",
"Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[5]", percentvar}]
```

Out[39]=



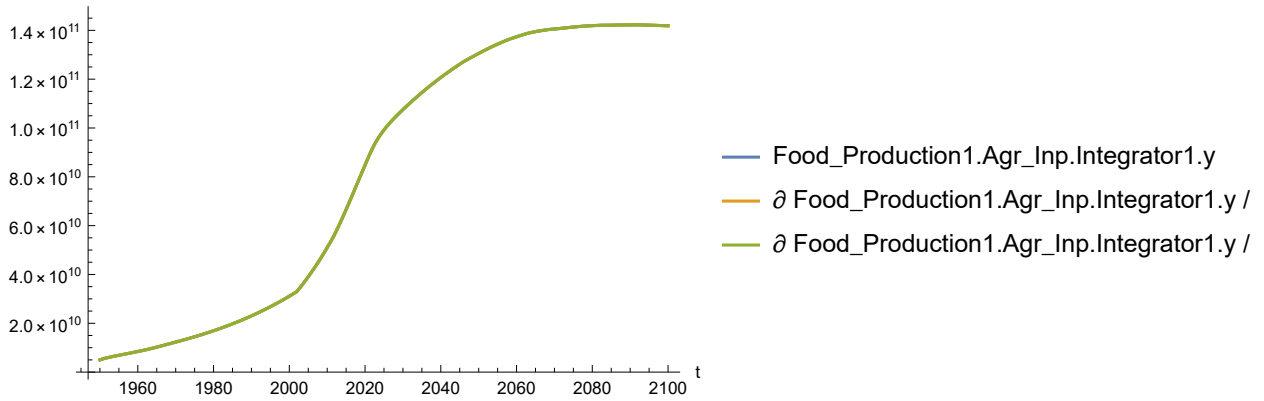
```
In[40]:= SystemModelPlot[simsensdata, {"Food_Production1.Agr_Inp.Integrator1.y",
"Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[6]", percentvar}]
```

Out[40]=




```
In[41]:= SystemModelPlot[simsensdata, {"Food_Production1.Agr_Inp.Integrator1.y",
    "Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[7]", percentvar}]
```

Out[41]=

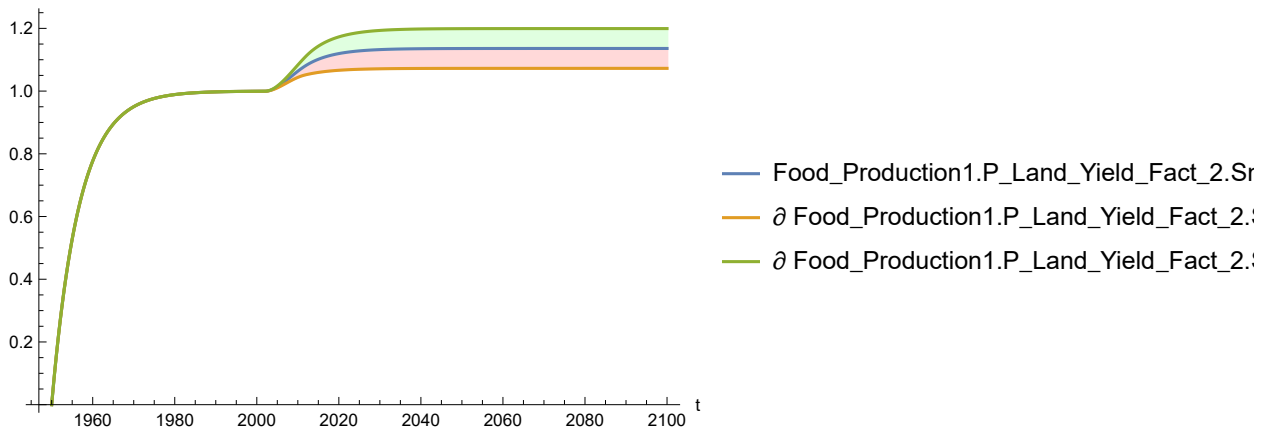


Plot sensitivity of **Food_Production1.P_Land_Yield_Fact2** to **Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals**.

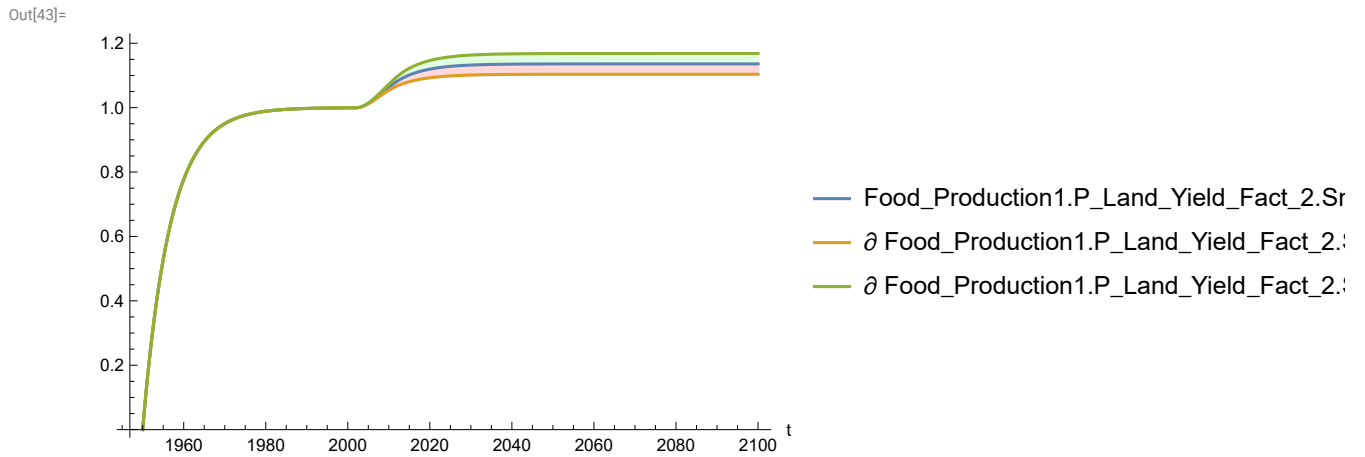
Plot the sensitivity of **Food_Production1.P_Land_Yield_Fact_2.SmoothN.Integrator1.y**, where $N = 1, 2, 3$, to variation in **Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals**.

```
In[42]:= SystemModelPlot[simsensdata, {"Food_Production1.P_Land_Yield_Fact_2.Smooth1.Integrator1.y",
    "Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[1]", percentvar}]
```

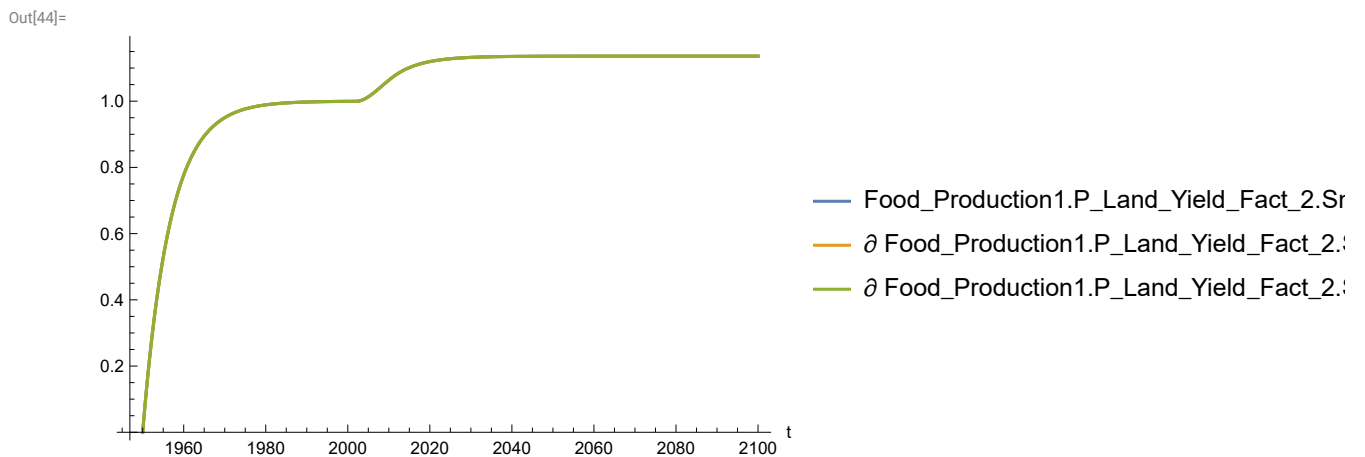
Out[42]=



```
In[43]:= SystemModelPlot[simsensdata,
  {"Food_Production1.P_Land_Yield_Fact_2.Smooth1.Integrator1.y",
   "Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[2]", percentvar}]
```

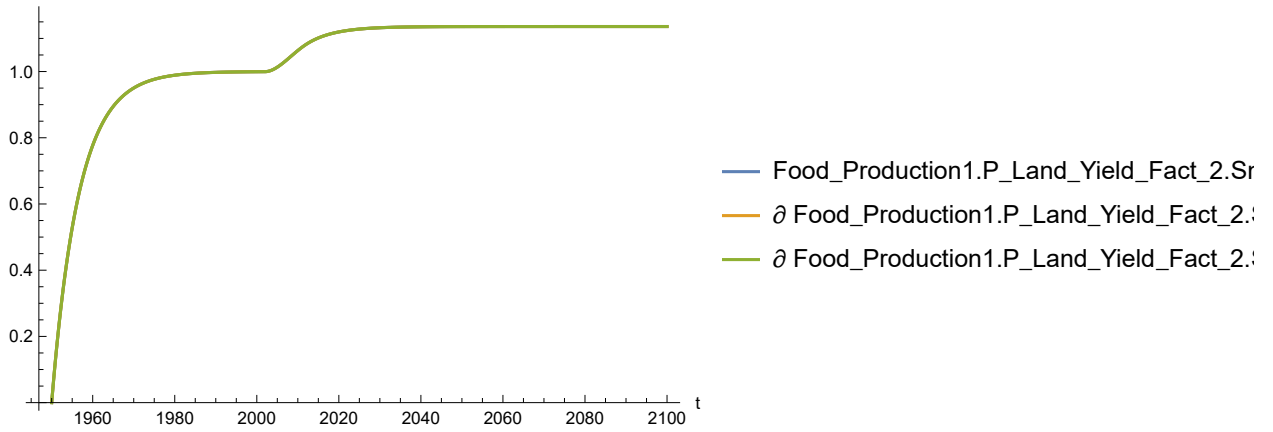


```
In[44]:= SystemModelPlot[simsensdata,
  {"Food_Production1.P_Land_Yield_Fact_2.Smooth1.Integrator1.y",
   "Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[3]", percentvar}]
```



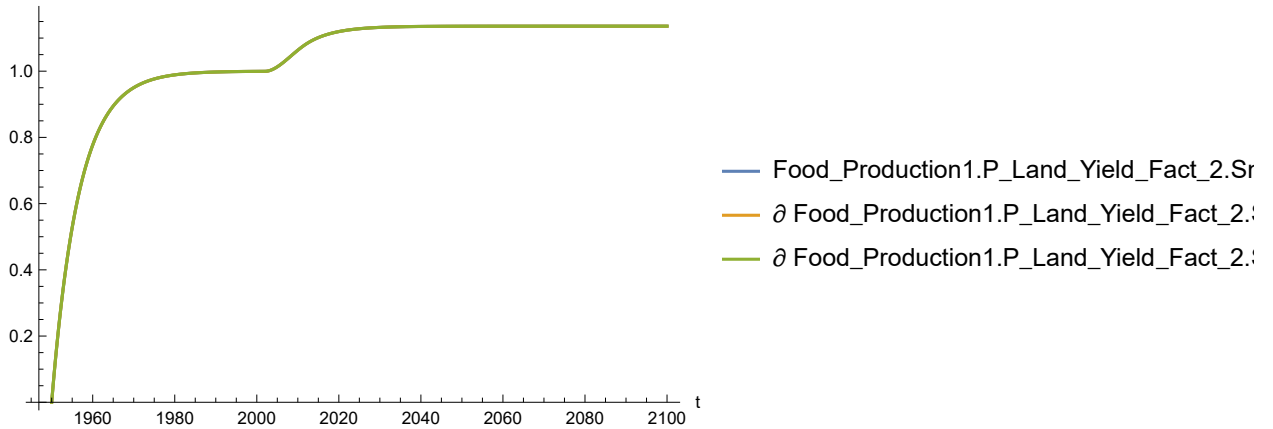
```
In[45]:= SystemModelPlot[simsensdata,
  {"Food_Production1.P_Land_Yield_Fact_2.Smooth1.Integrator1.y",
   "Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[4]", percentvar}]
```

Out[45]=

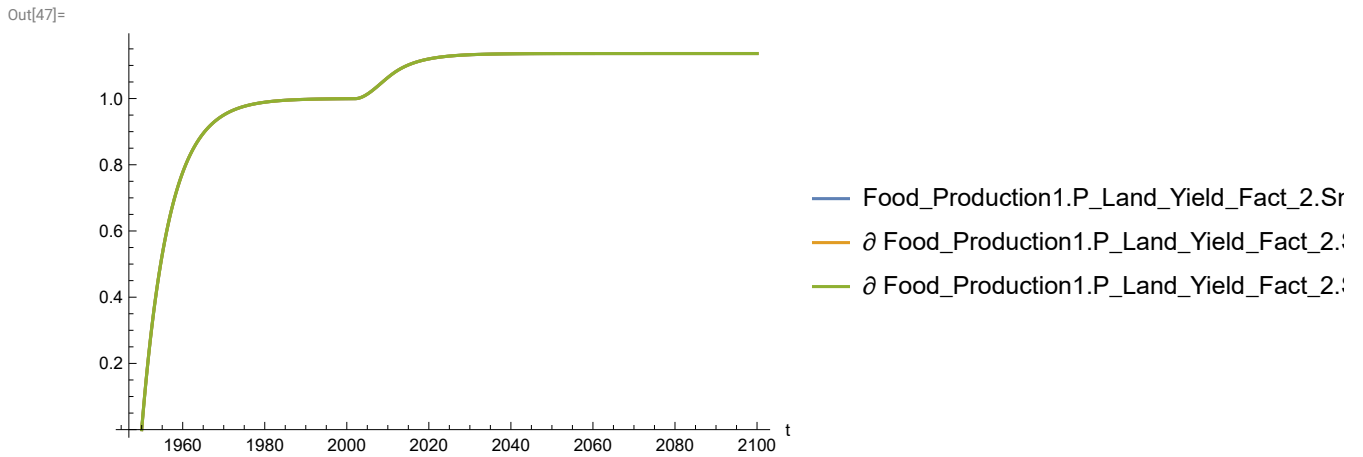


```
In[46]:= SystemModelPlot[simsensdata,
  {"Food_Production1.P_Land_Yield_Fact_2.Smooth1.Integrator1.y",
   "Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[5]", percentvar}]
```

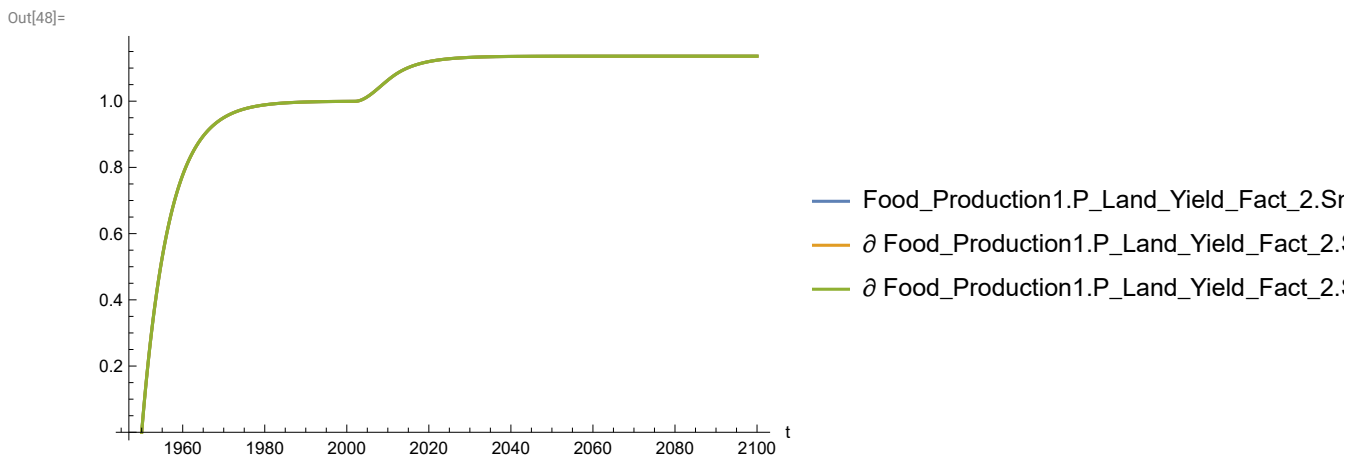
Out[46]=



```
In[47]:= SystemModelPlot[simsensdata,
  {"Food_Production1.P_Land_Yield_Fact_2.Smooth1.Integrator1.y",
   "Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[6]", percentvar}]
```

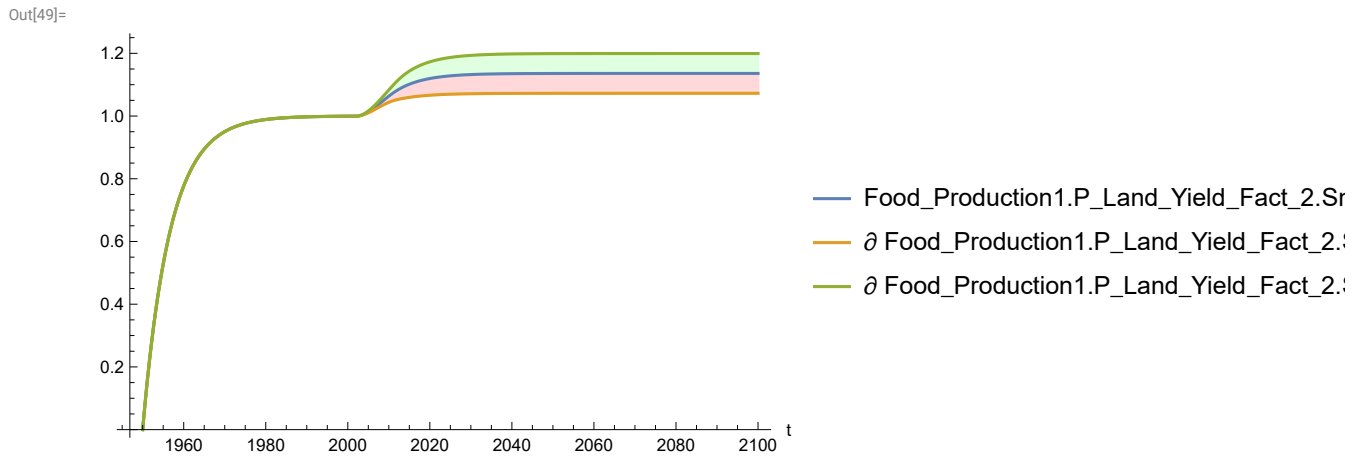


```
In[48]:= SystemModelPlot[simsensdata,
  {"Food_Production1.P_Land_Yield_Fact_2.Smooth1.Integrator1.y",
   "Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[7]", percentvar}]
```

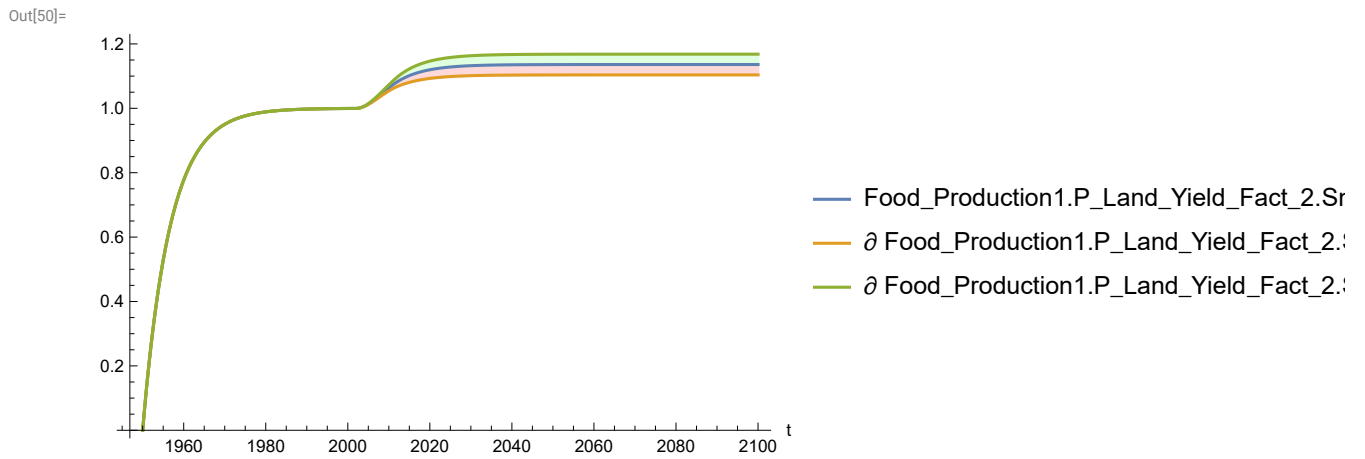


Plot the sensitivity of Food_Production1.P_Land_Yield_Fact_2.Smooth1.Integrator1.y to Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals.

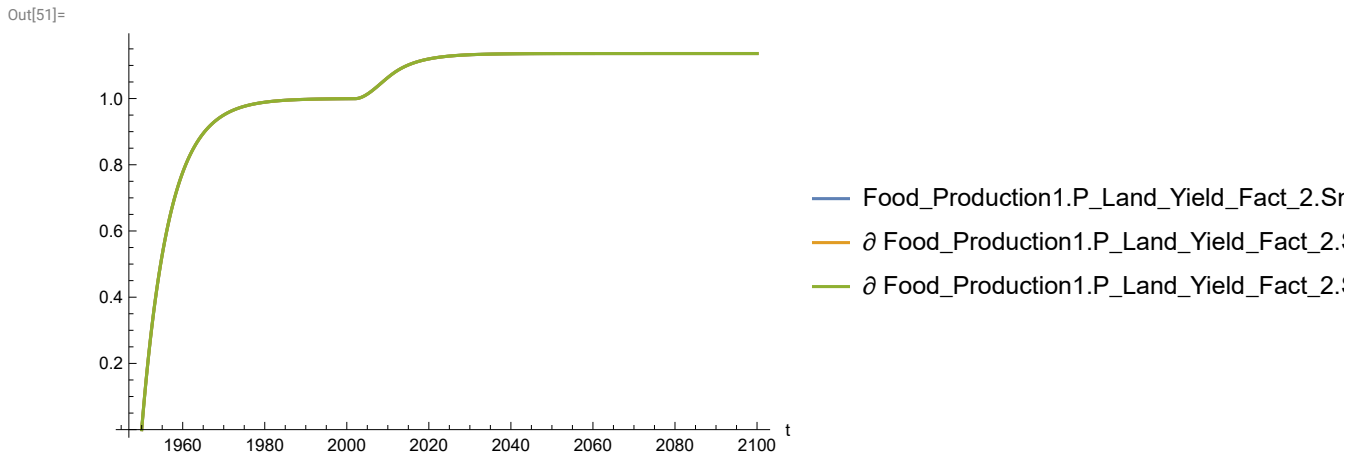
```
In[49]:= SystemModelPlot[simsensdata,
  {"Food_Production1.P_Land_Yield_Fact_2.Smooth1.Integrator1.y",
   "Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[1]", percentvar}]
```



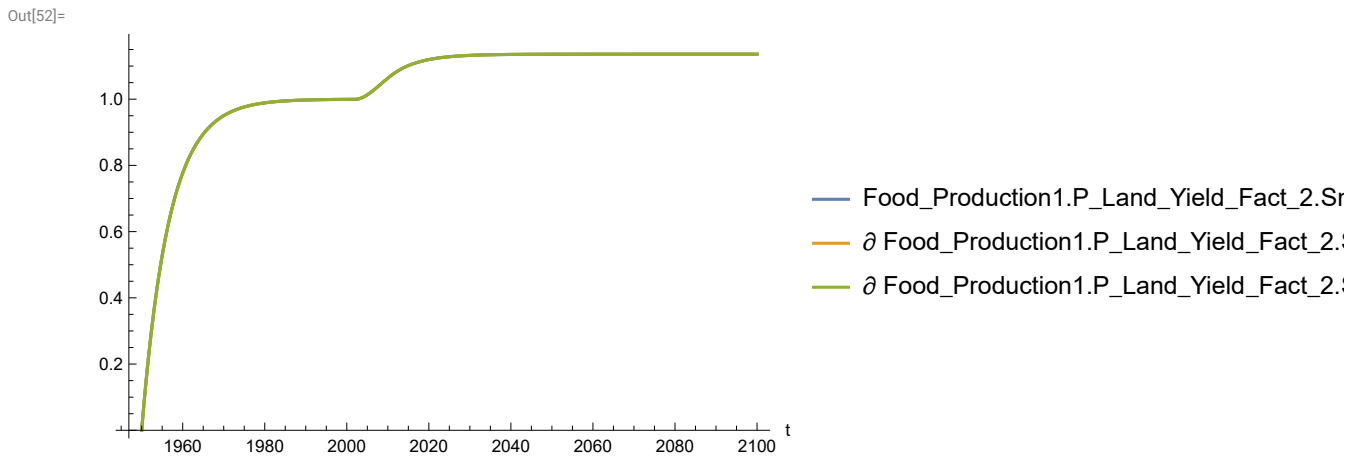
```
In[50]:= SystemModelPlot[simsensdata,
  {"Food_Production1.P_Land_Yield_Fact_2.Smooth1.Integrator1.y",
   "Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[2]", percentvar}]
```



```
In[51]:= SystemModelPlot[simsensdata,
  {"Food_Production1.P_Land_Yield_Fact_2.Smooth1.Integrator1.y",
   "Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[3]", percentvar}]
```

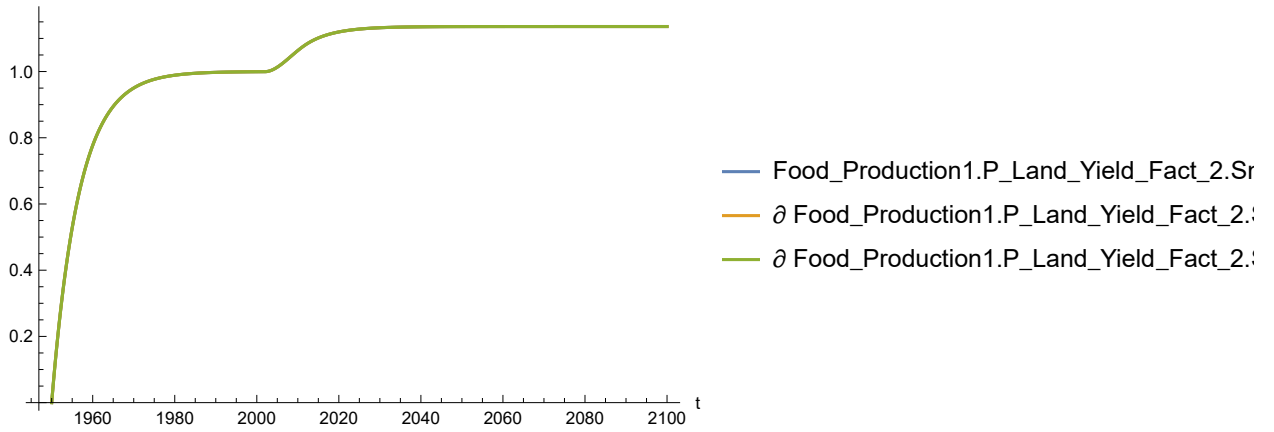


```
In[52]:= SystemModelPlot[simsensdata,
  {"Food_Production1.P_Land_Yield_Fact_2.Smooth1.Integrator1.y",
   "Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[4]", percentvar}]
```



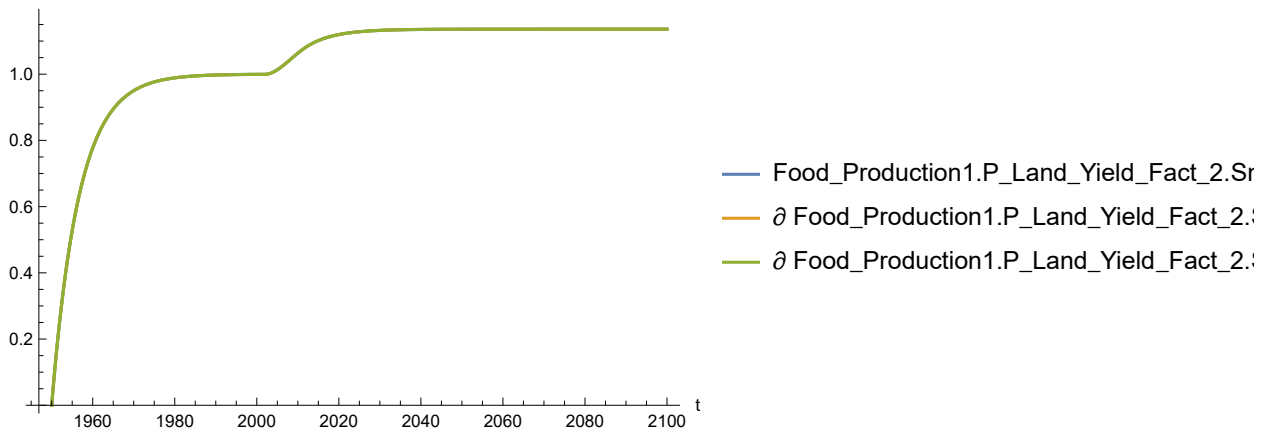
```
In[53]:= SystemModelPlot[simsensdata,
  {"Food_Production1.P_Land_Yield_Fact_2.Smooth1.Integrator1.y",
   "Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[5]", percentvar}]
```

Out[53]=

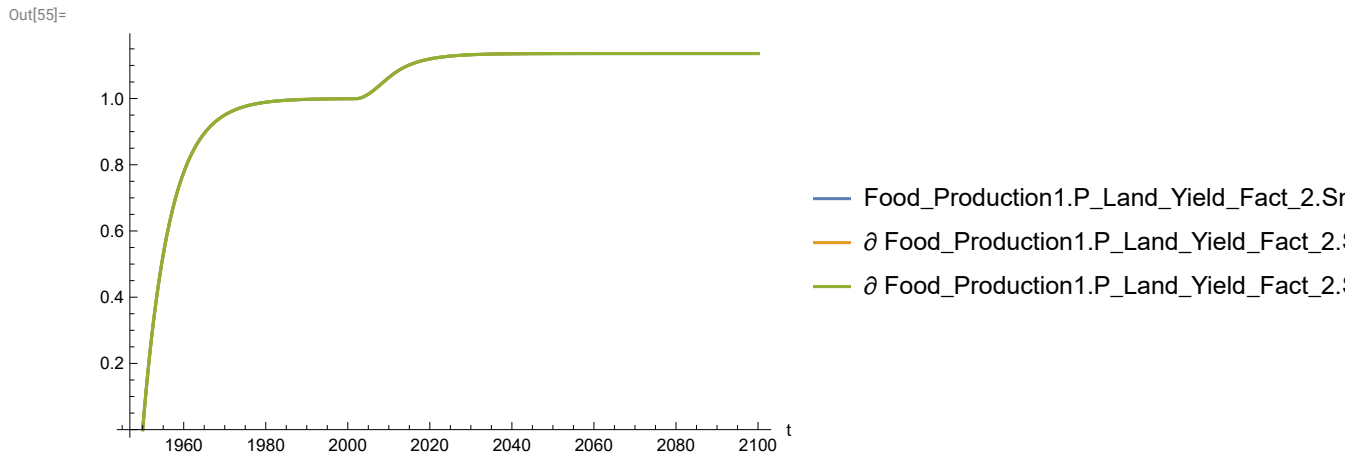


```
In[54]:= SystemModelPlot[simsensdata,
  {"Food_Production1.P_Land_Yield_Fact_2.Smooth1.Integrator1.y",
   "Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[6]", percentvar}]
```

Out[54]=

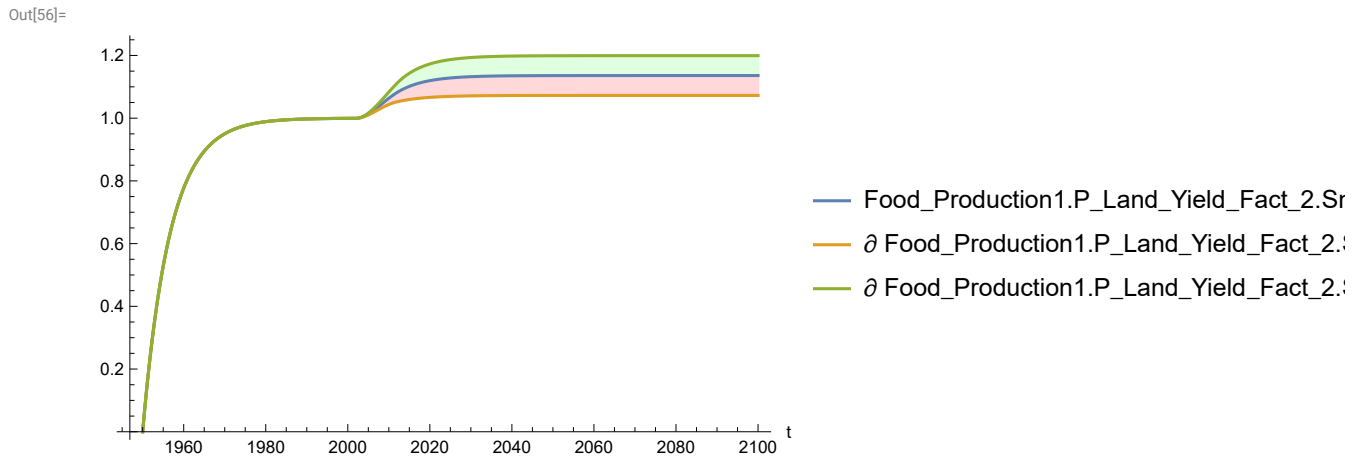


```
In[55]:= SystemModelPlot[simsensdata,
  {"Food_Production1.P_Land_Yield_Fact_2.Smooth1.Integrator1.y",
   "Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[7]", percentvar}]
```

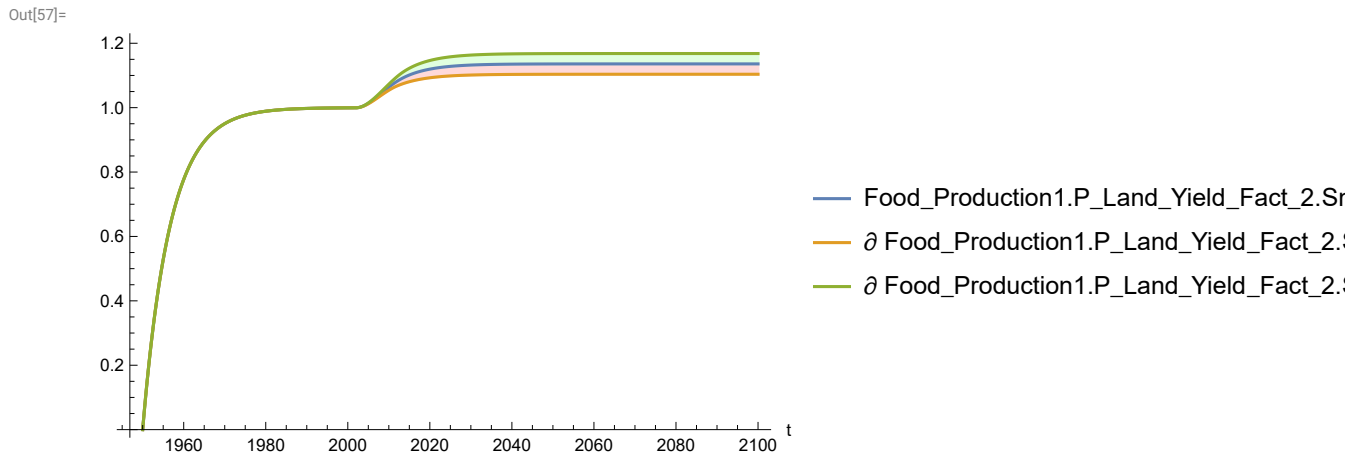


Plot the sensitivity of Food_Production1.P_Land_Yield_Fact_2.Smooth1.Integrator1.y to Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals.

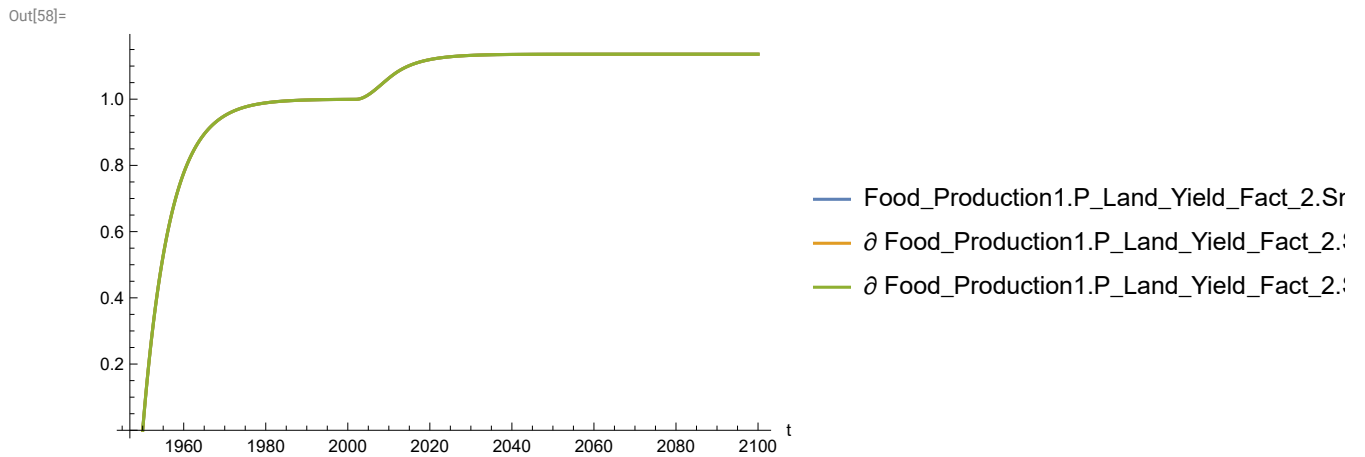
```
In[56]:= SystemModelPlot[simsensdata,
  {"Food_Production1.P_Land_Yield_Fact_2.Smooth1.Integrator1.y",
   "Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[1]", percentvar}]
```



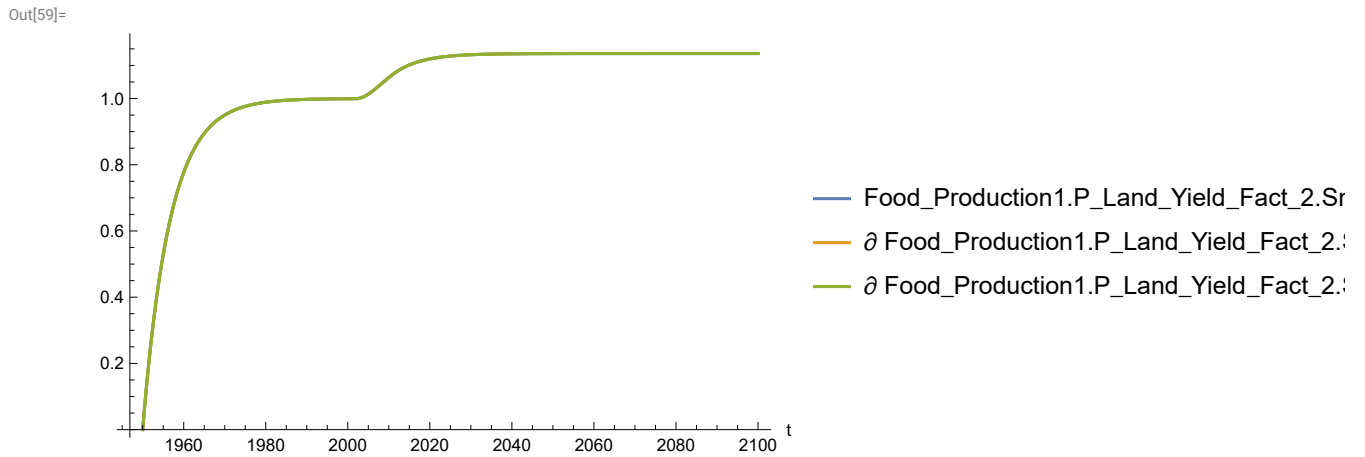

```
In[57]:= SystemModelPlot[simsensdata,
  {"Food_Production1.P_Land_Yield_Fact_2.Smooth1.Integrator1.y",
   "Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[2]", percentvar}]
```



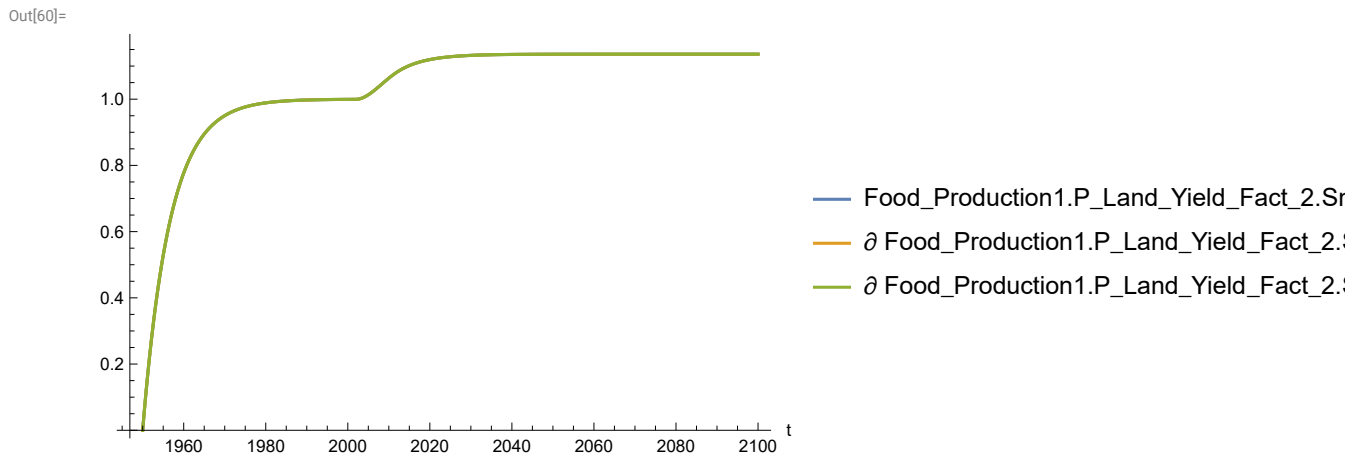
```
In[58]:= SystemModelPlot[simsensdata,
  {"Food_Production1.P_Land_Yield_Fact_2.Smooth1.Integrator1.y",
   "Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[3]", percentvar}]
```



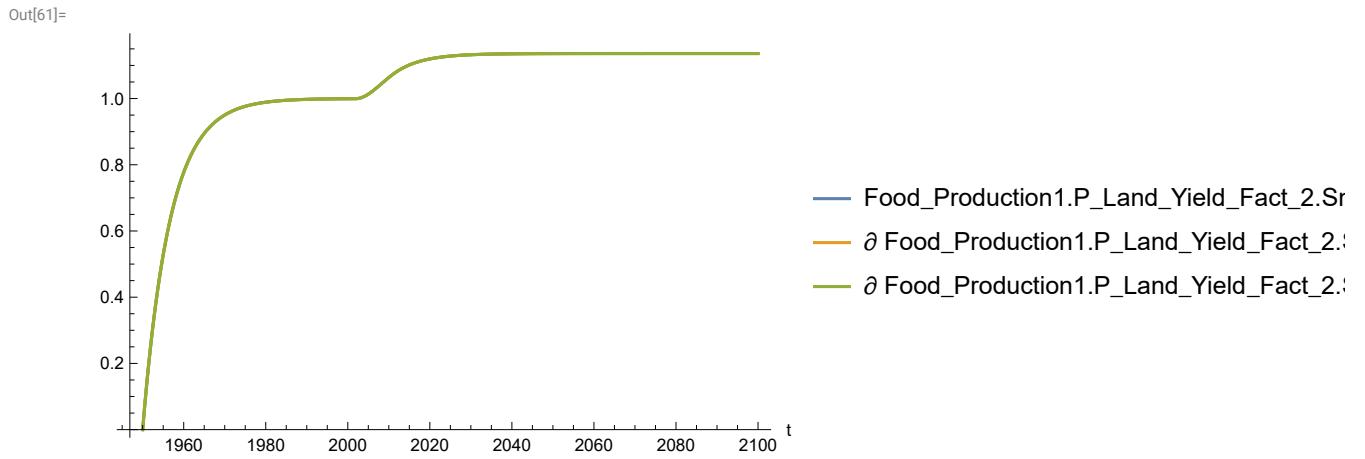
```
In[59]:= SystemModelPlot[simsensdata,
  {"Food_Production1.P_Land_Yield_Fact_2.Smooth1.Integrator1.y",
   "Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[4]", percentvar}]
```



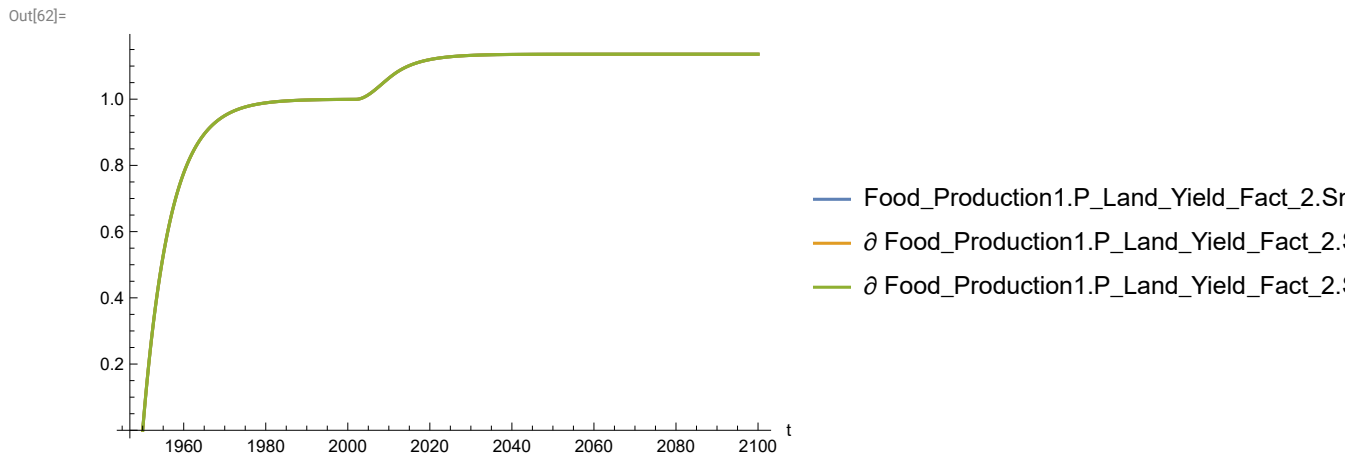
```
In[60]:= SystemModelPlot[simsensdata,
  {"Food_Production1.P_Land_Yield_Fact_2.Smooth1.Integrator1.y",
   "Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[5]", percentvar}]
```



```
In[61]:= SystemModelPlot[simsensdata,
  {"Food_Production1.P_Land_Yield_Fact_2.Smooth1.Integrator1.y",
   "Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[6]", percentvar}]
```

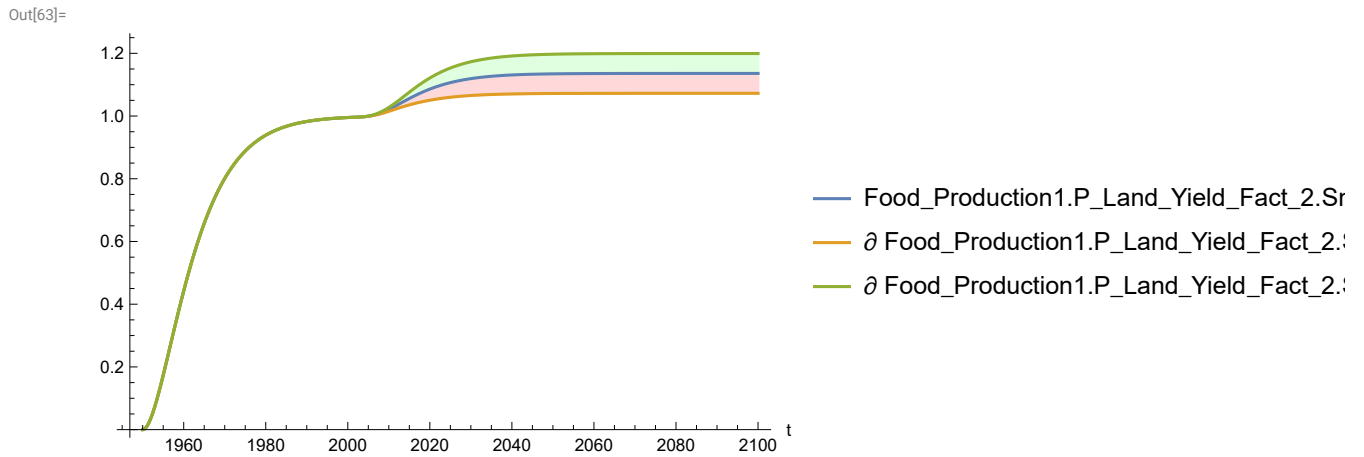


```
In[62]:= SystemModelPlot[simsensdata,
  {"Food_Production1.P_Land_Yield_Fact_2.Smooth1.Integrator1.y",
   "Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[7]", percentvar}]
```

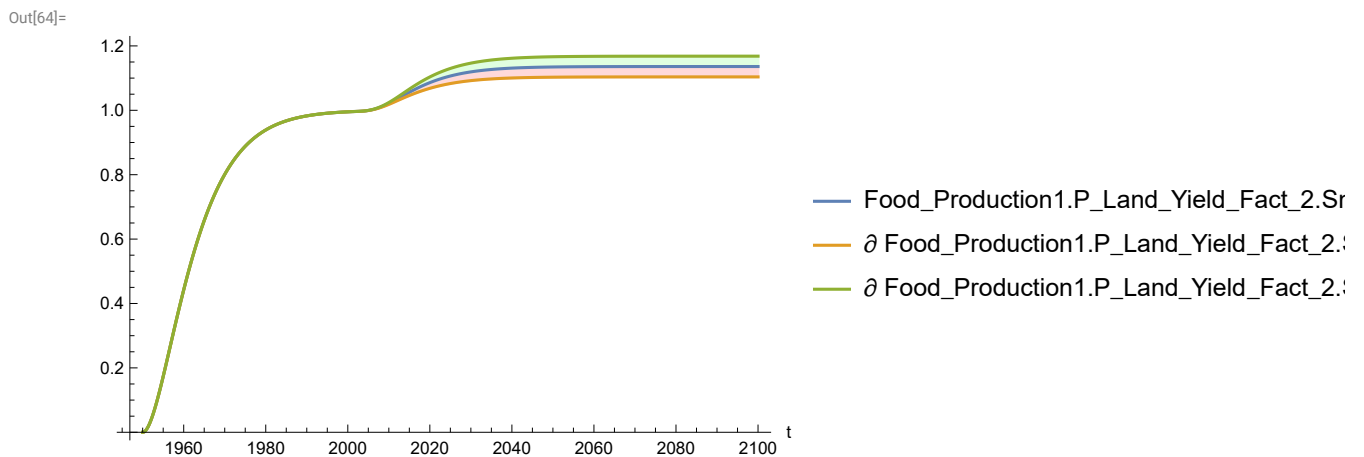


Plot the sensitivity of Food_Production1.P_Land_Yield_Fact_2.Smooth2.Integrator1.y to Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals.

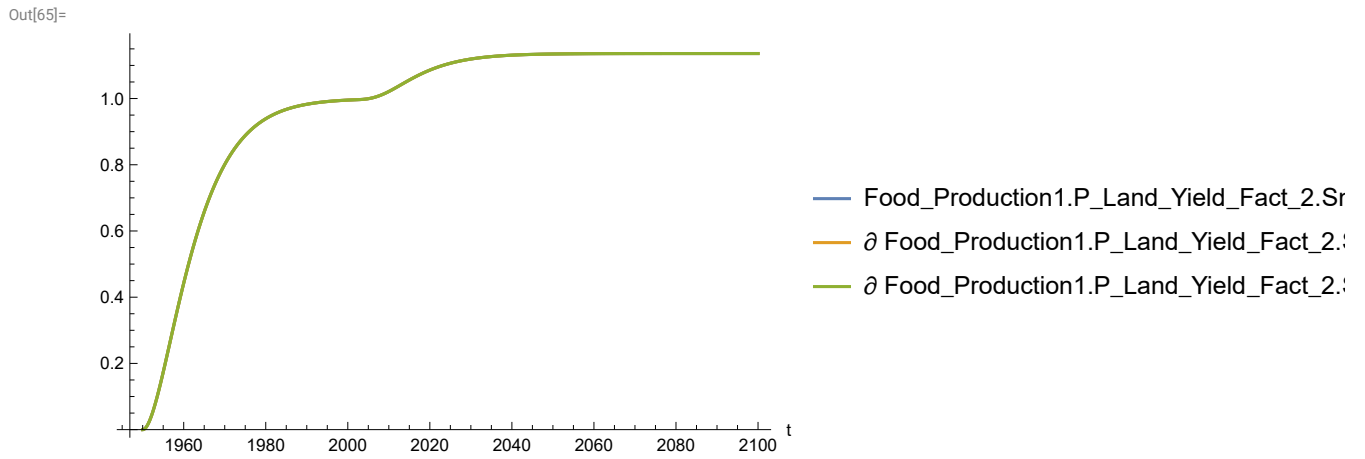
```
In[63]:= SystemModelPlot[simsensdata,
  {"Food_Production1.P_Land_Yield_Fact_2.Smooth2.Integrator1.y",
   "Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[1]", percentvar}]
```



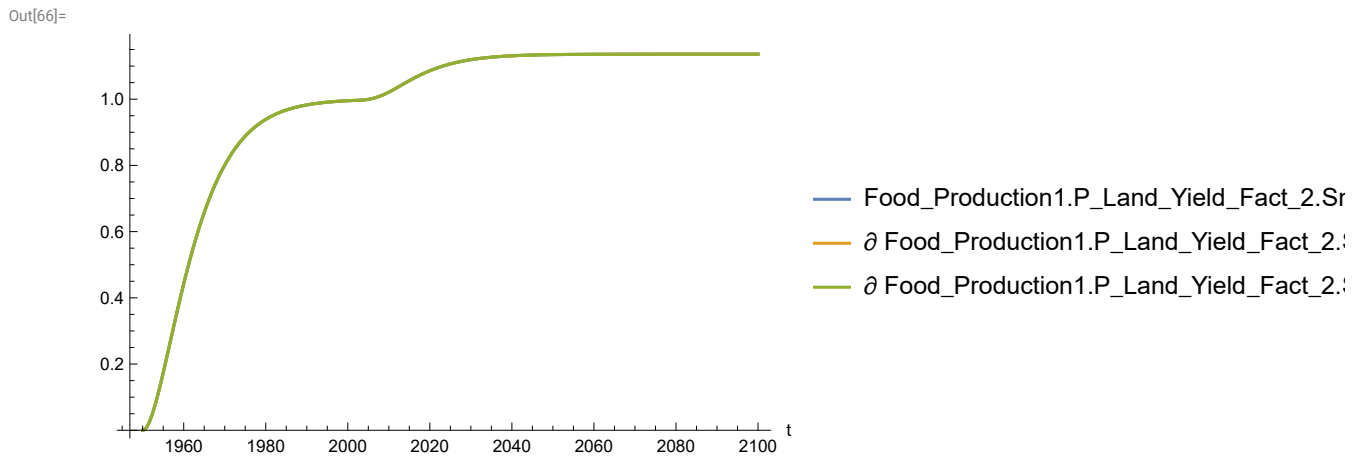
```
In[64]:= SystemModelPlot[simsensdata,
  {"Food_Production1.P_Land_Yield_Fact_2.Smooth2.Integrator1.y",
   "Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[2]", percentvar}]
```



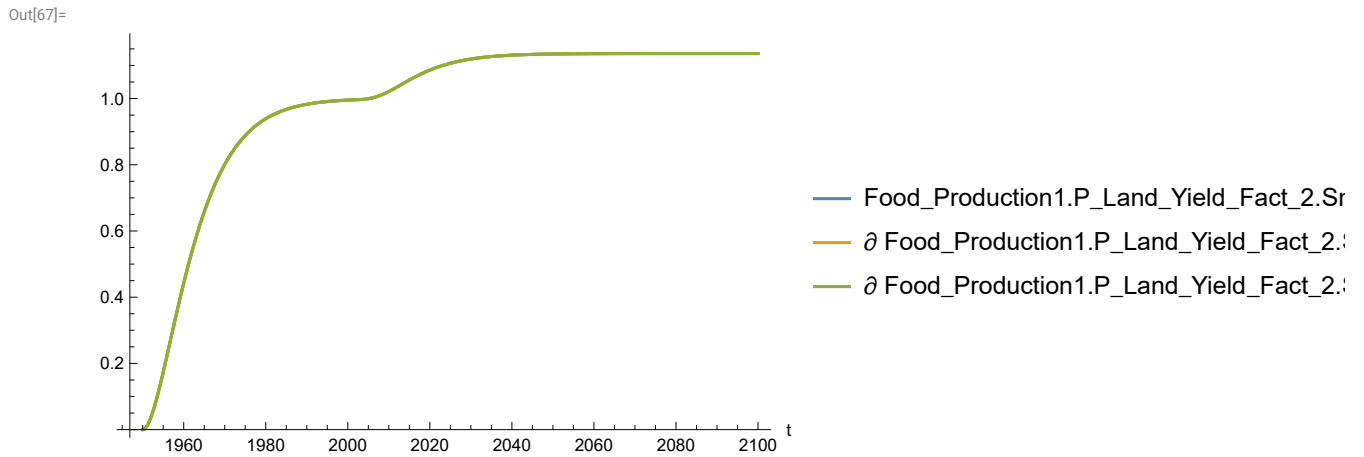
```
In[65]:= SystemModelPlot[simsensdata,
  {"Food_Production1.P_Land_Yield_Fact_2.Smooth2.Integrator1.y",
   "Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[3]", percentvar}]
```



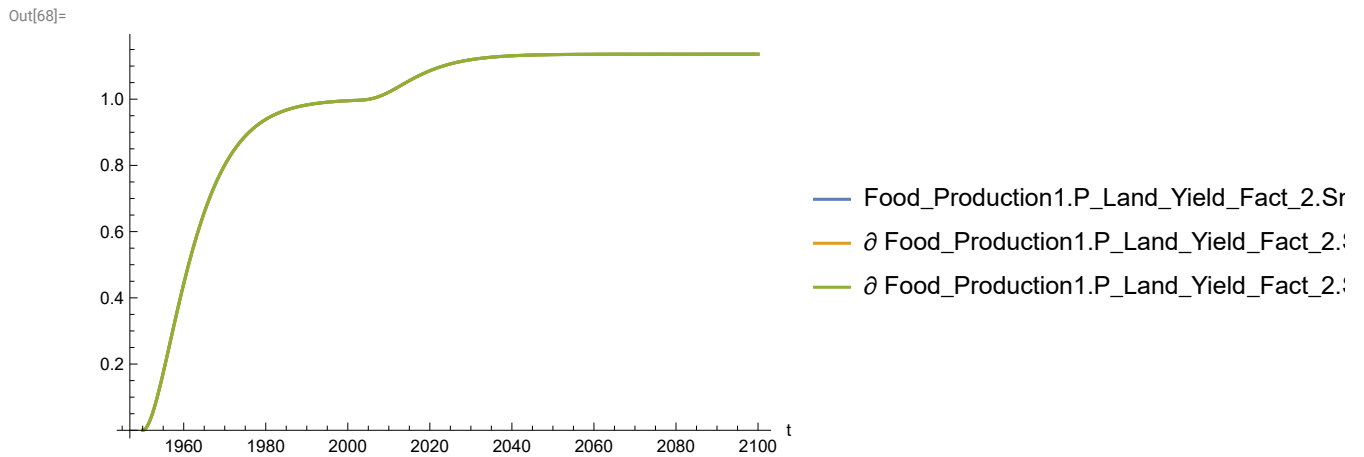
```
In[66]:= SystemModelPlot[simsensdata,
  {"Food_Production1.P_Land_Yield_Fact_2.Smooth2.Integrator1.y",
   "Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[4]", percentvar}]
```



```
In[67]:= SystemModelPlot[simsensdata,
  {"Food_Production1.P_Land_Yield_Fact_2.Smooth2.Integrator1.y",
   "Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[5]", percentvar}]
```

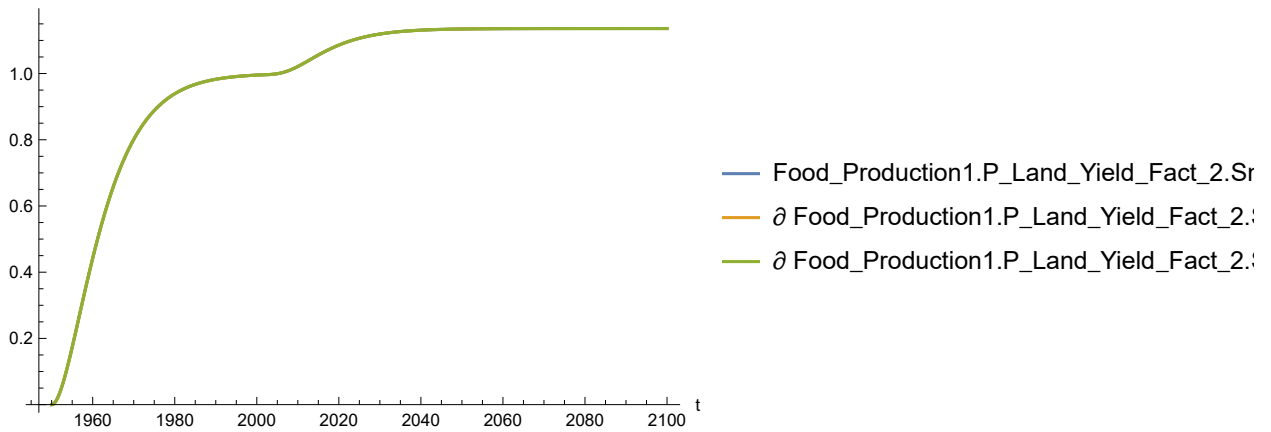


```
In[68]:= SystemModelPlot[simsensdata,
  {"Food_Production1.P_Land_Yield_Fact_2.Smooth2.Integrator1.y",
   "Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[6]", percentvar}]
```



```
In[69]:= SystemModelPlot[simsensdata,
  {"Food_Production1.P_Land_Yield_Fact_2.Smooth2.Integrator1.y",
   "Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[7]", percentvar}]
```

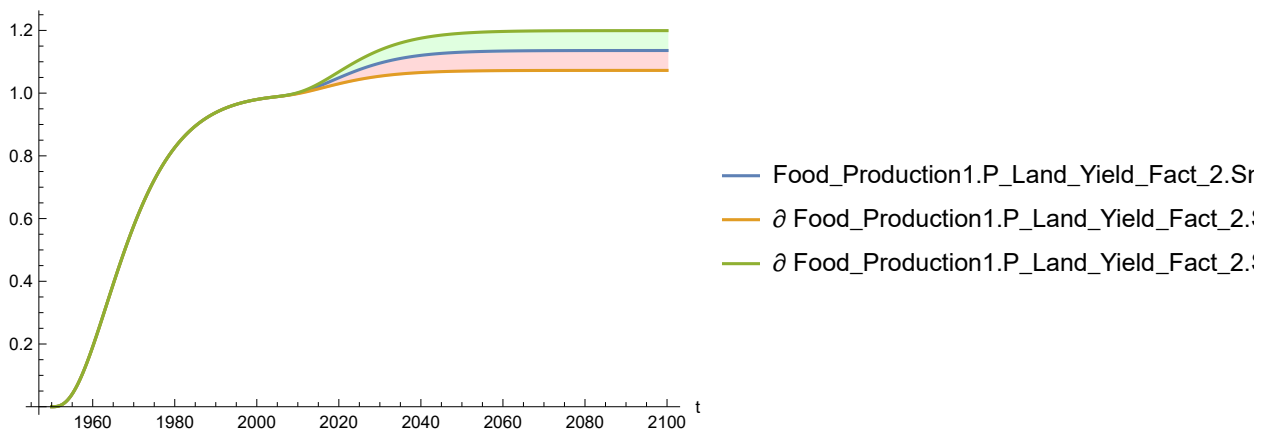
Out[69]=



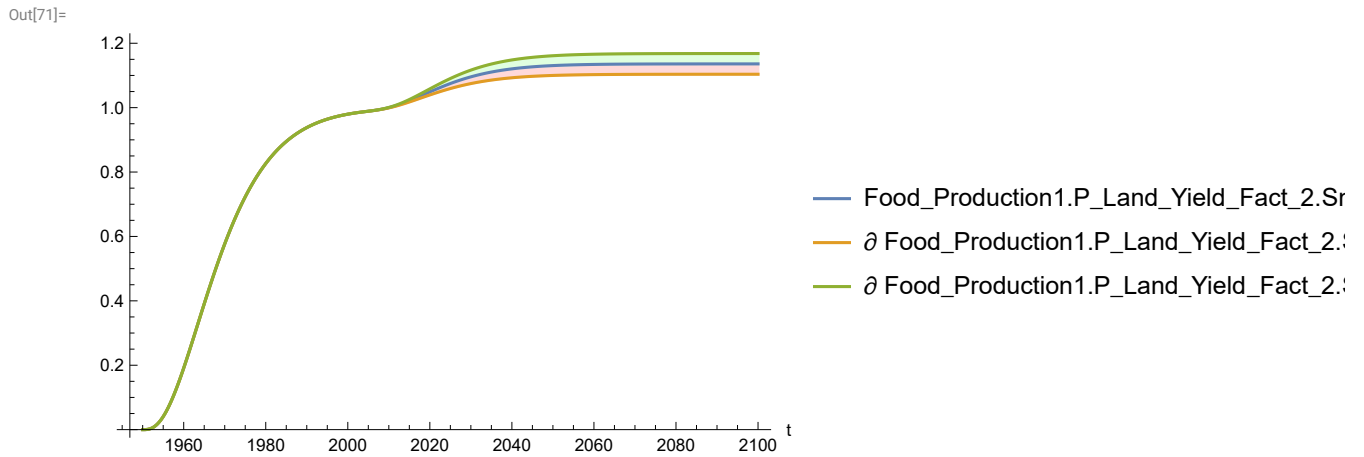
Plot sensitivity of **Food_Production1.P_Land_Yield_Fact_2.Smooth3.Integrator1.y** to Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals

```
In[70]:= SystemModelPlot[simsensdata,
  {"Food_Production1.P_Land_Yield_Fact_2.Smooth3.Integrator1.y",
   "Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[1]", percentvar}]
```

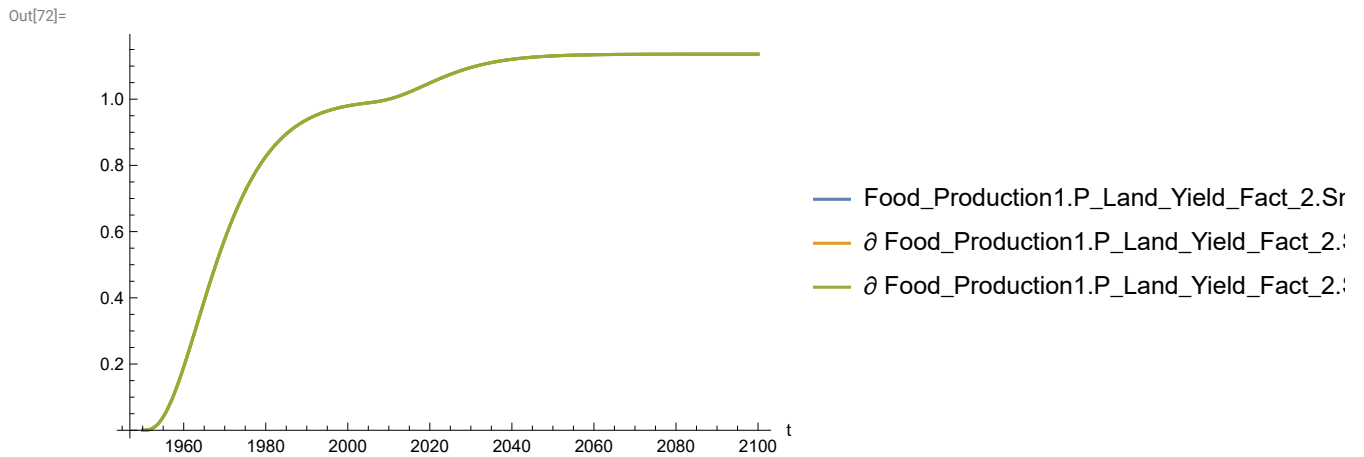
Out[70]=



```
In[71]:= SystemModelPlot[simsensdata,
  {"Food_Production1.P_Land_Yield_Fact_2.Smooth3.Integrator1.y",
   "Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[2]", percentvar}]
```

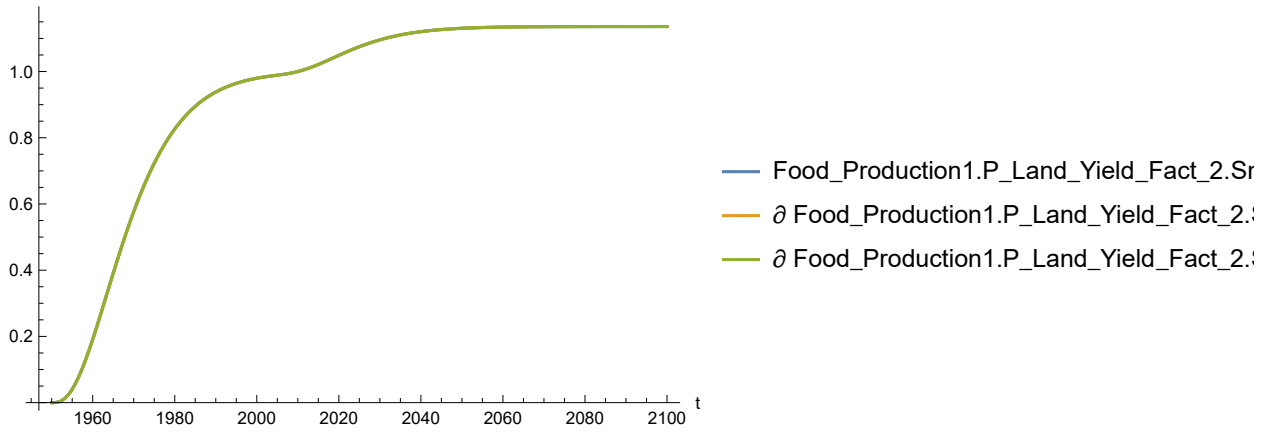


```
In[72]:= SystemModelPlot[simsensdata,
  {"Food_Production1.P_Land_Yield_Fact_2.Smooth3.Integrator1.y",
   "Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[3]", percentvar}]
```



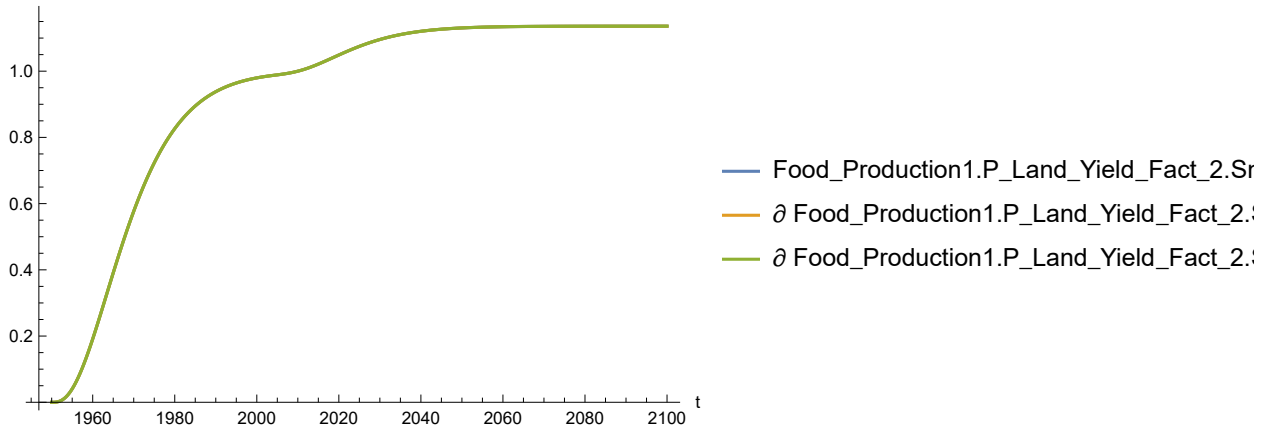

```
In[73]:= SystemModelPlot[simsensdata,
  {"Food_Production1.P_Land_Yield_Fact_2.Smooth3.Integrator1.y",
   "Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[4]", percentvar}]
```

Out[73]=

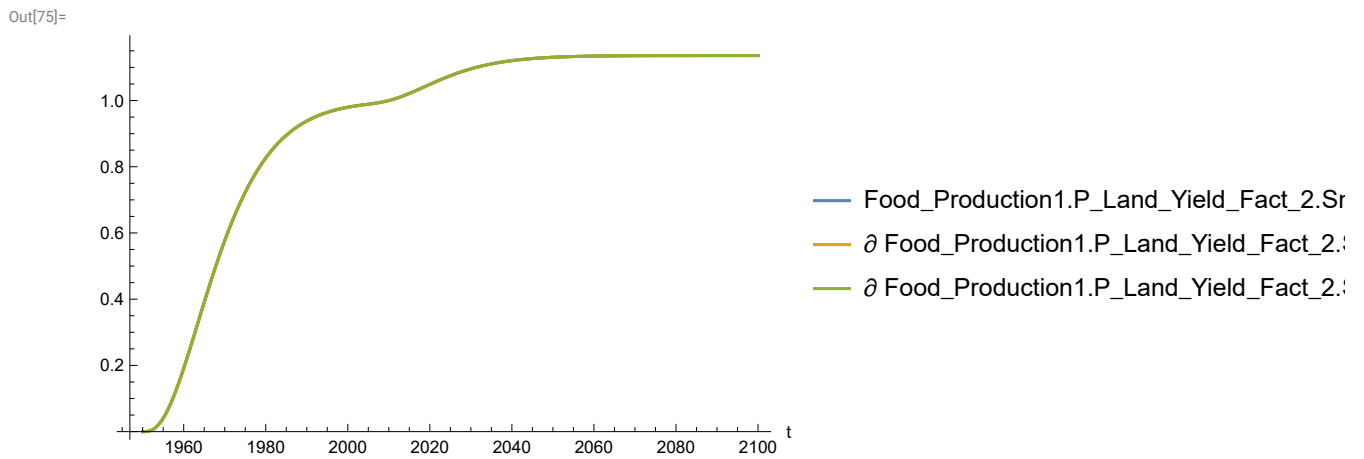


```
In[74]:= SystemModelPlot[simsensdata,
  {"Food_Production1.P_Land_Yield_Fact_2.Smooth3.Integrator1.y",
   "Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[5]", percentvar}]
```

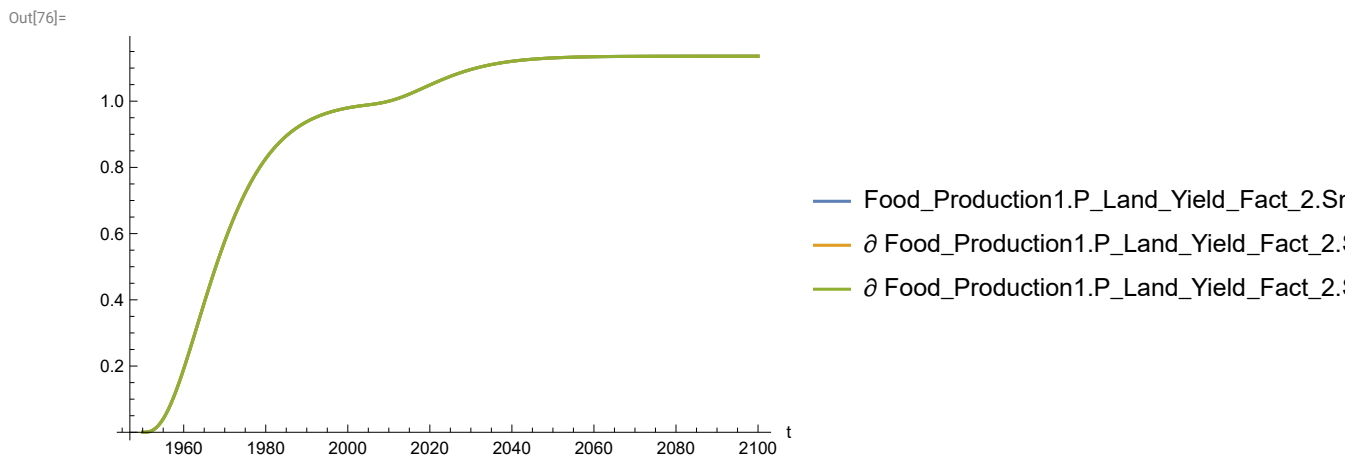
Out[74]=



```
In[75]:= SystemModelPlot[simsensdata,
  {"Food_Production1.P_Land_Yield_Fact_2.Smooth3.Integrator1.y",
   "Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[6]", percentvar}]
```



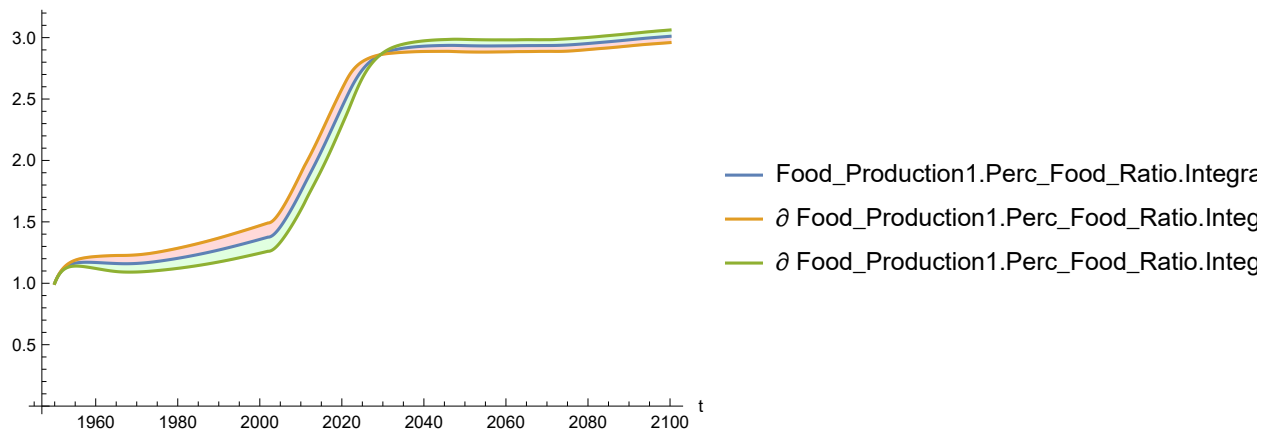
```
In[76]:= SystemModelPlot[simsensdata,
  {"Food_Production1.P_Land_Yield_Fact_2.Smooth3.Integrator1.y",
   "Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[7]", percentvar}]
```



Plot sensitivity of **Food_Production1.Perc_Food_Ratio.Integrator1.y** to **Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals**

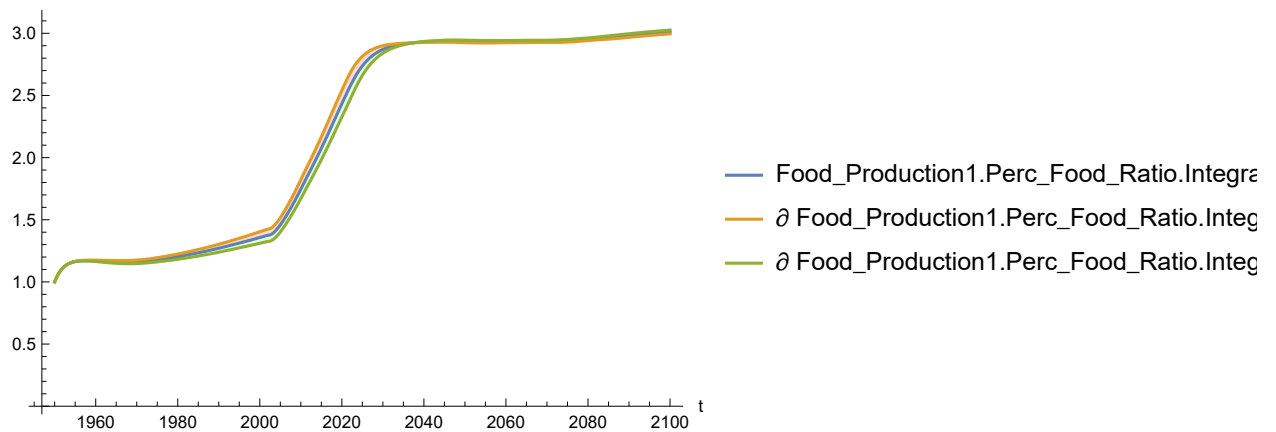
```
In[77]:= SystemModelPlot[simsensdata, {"Food_Production1.Perc_Food_Ratio.Integrator1.y",
"Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[1]", percentvar}]
```

Out[77]=



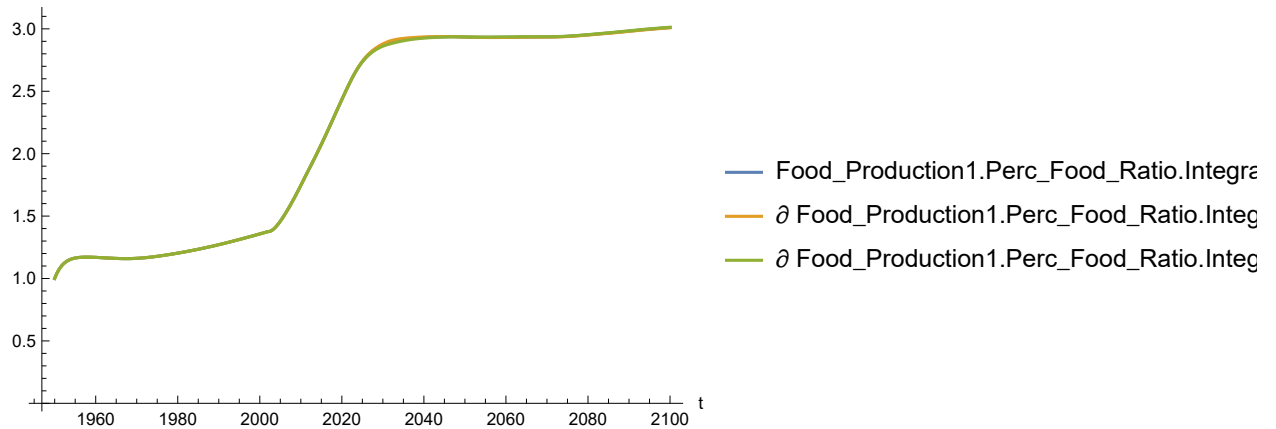
```
In[78]:= SystemModelPlot[simsensdata, {"Food_Production1.Perc_Food_Ratio.Integrator1.y",
"Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[2]", percentvar}]
```

Out[78]=



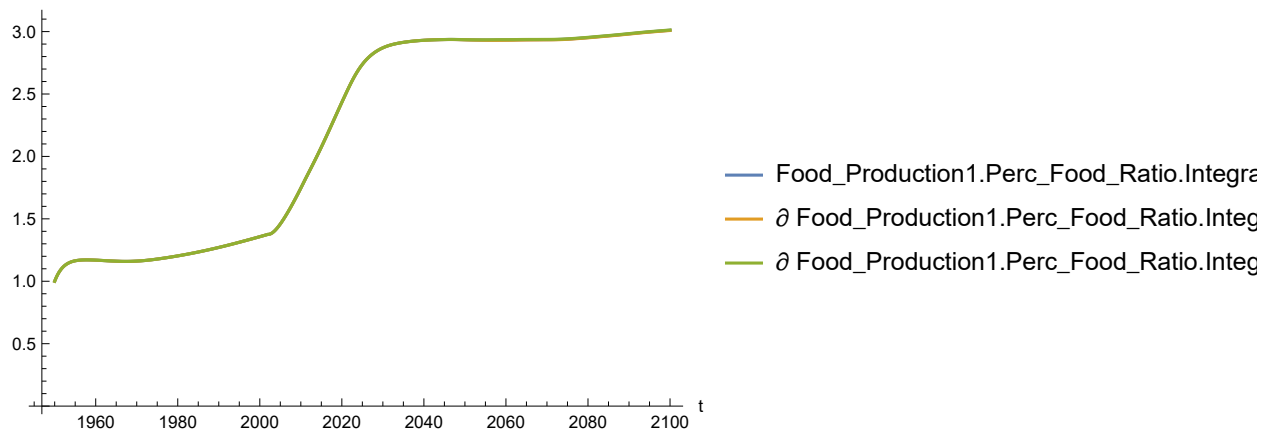
```
In[79]:= SystemModelPlot[simsensdata, {"Food_Production1.Perc_Food_Ratio.Integrator1.y",
"Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[3]", percentvar}]
```

Out[79]=



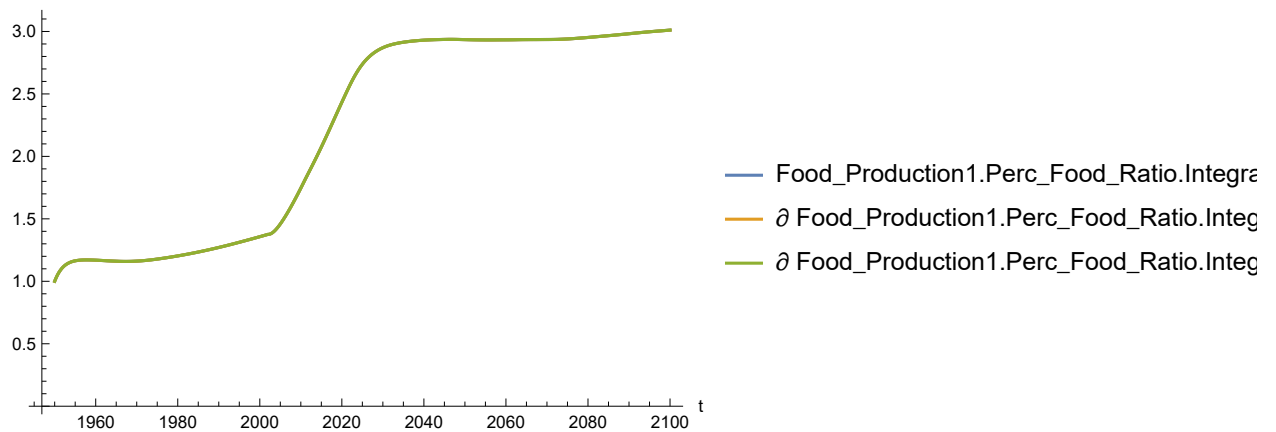
```
In[80]:= SystemModelPlot[simsensdata, {"Food_Production1.Perc_Food_Ratio.Integrator1.y",
"Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[4]", percentvar}]
```

Out[80]=



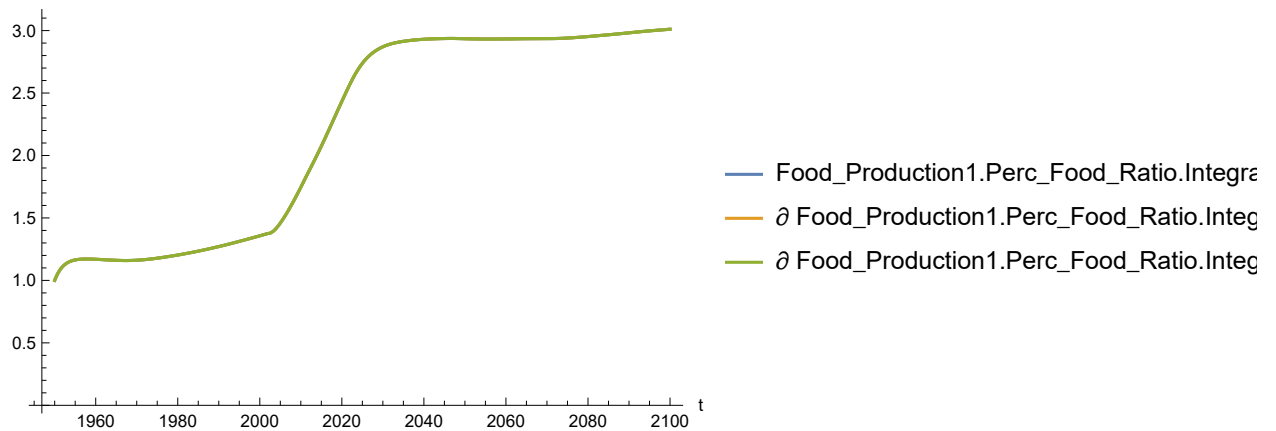
```
In[81]:= SystemModelPlot[simsensdata, {"Food_Production1.Perc_Food_Ratio.Integrator1.y",
"Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[5]", percentvar}]
```

Out[81]=



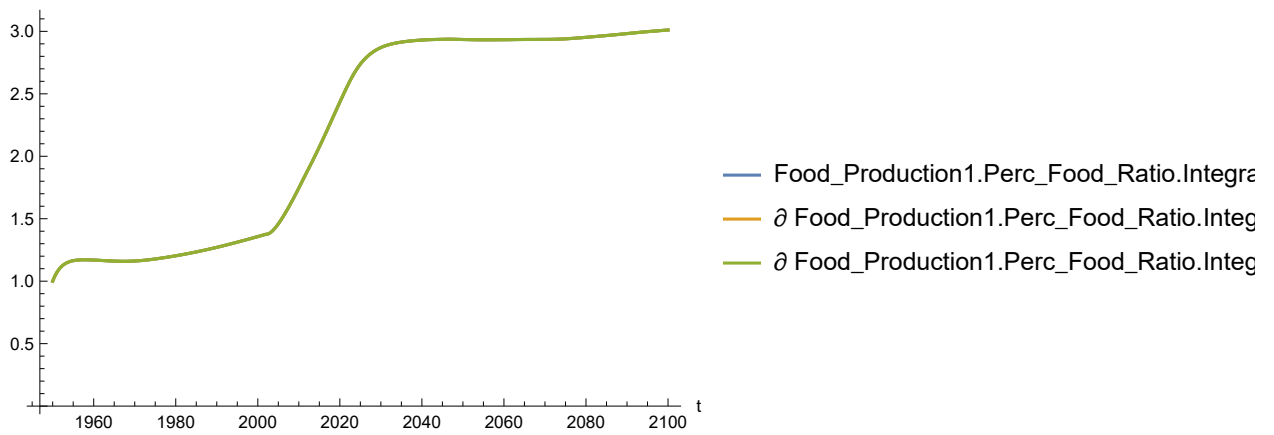
```
In[82]:= SystemModelPlot[simsensdata, {"Food_Production1.Perc_Food_Ratio.Integrator1.y",
"Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[6]", percentvar}]
```

Out[82]=



```
In[83]:= SystemModelPlot[simsensdata, {{"Food_Production1.Perc_Food_Ratio.Integrator1.y",
"Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[7]", percentvar}}]
```

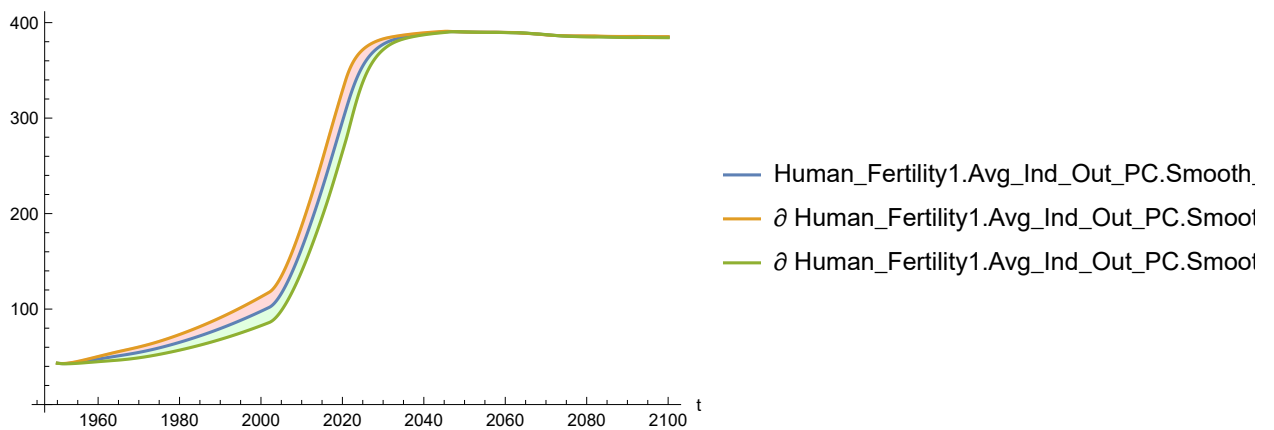
Out[83]=



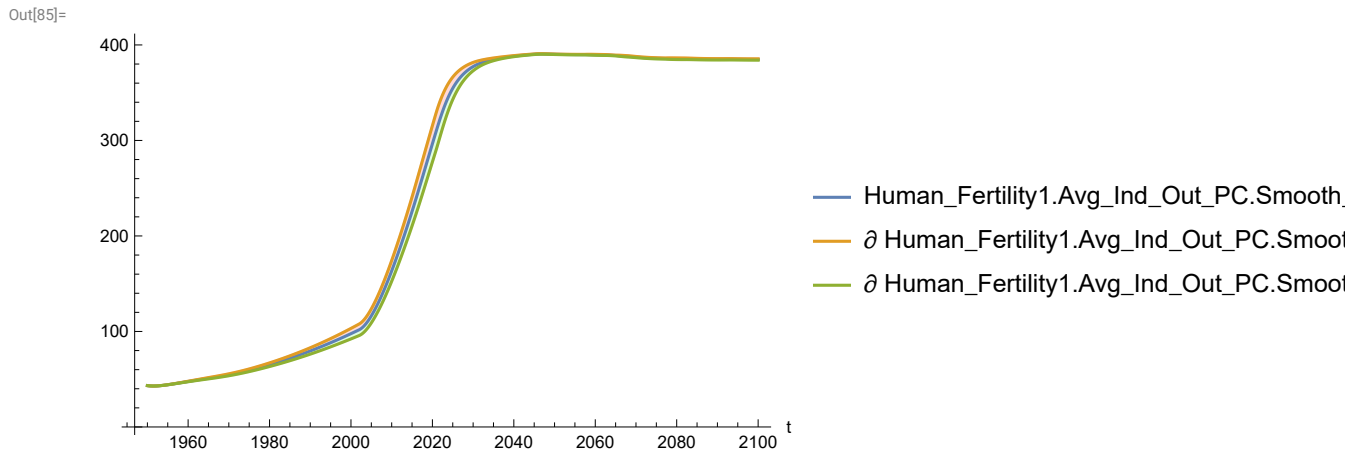
Plot the sensitivity of `Human_Fertility1.Avg_Ind_Out_PC.Smooth_of_Input.Integrator1.y` to `Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals`.

```
In[84]:= SystemModelPlot[simsensdata,
{"Human_Fertility1.Avg_Ind_Out_PC.Smooth_of_Input.Integrator1.y",
"Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[1]", percentvar}]
```

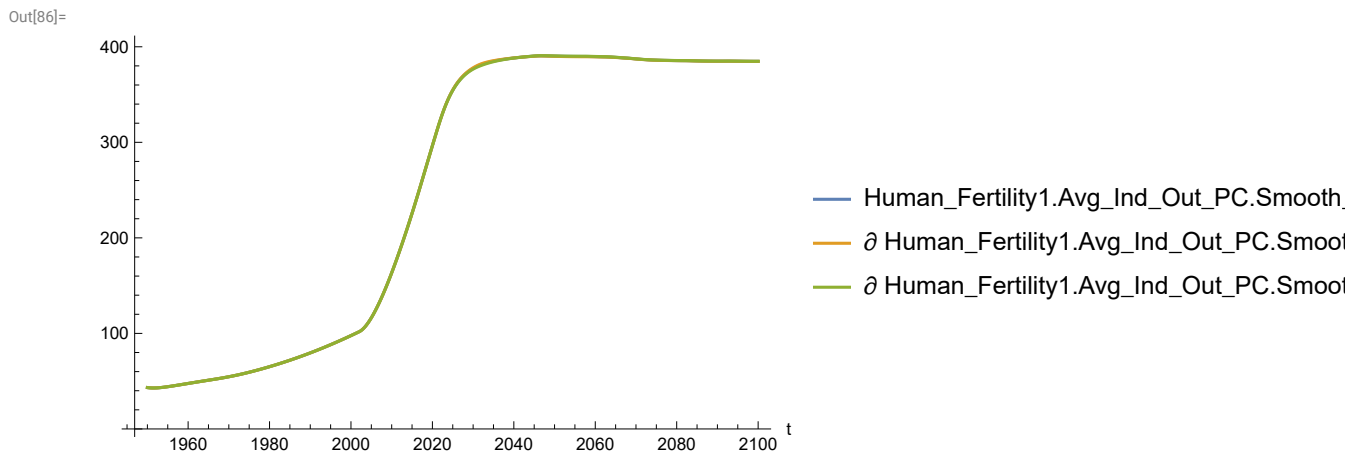
Out[84]=



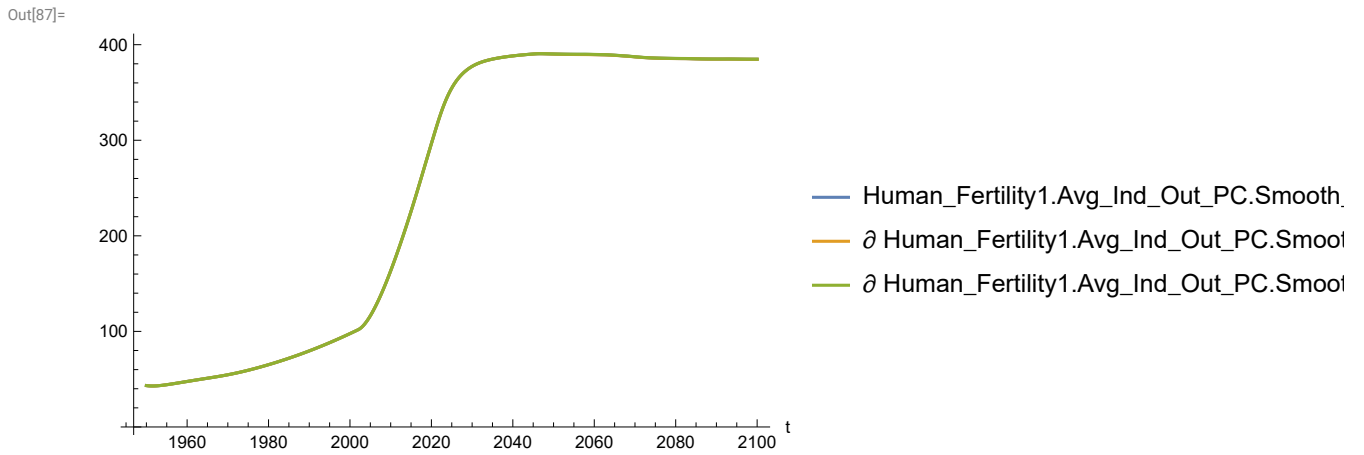
```
In[85]:= SystemModelPlot[simsensdata,
  {"Human_Fertility1.Avg_Ind_Out_PC.Smooth_of_Input.Integrator1.y",
   "Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[2]", percentvar}]
```



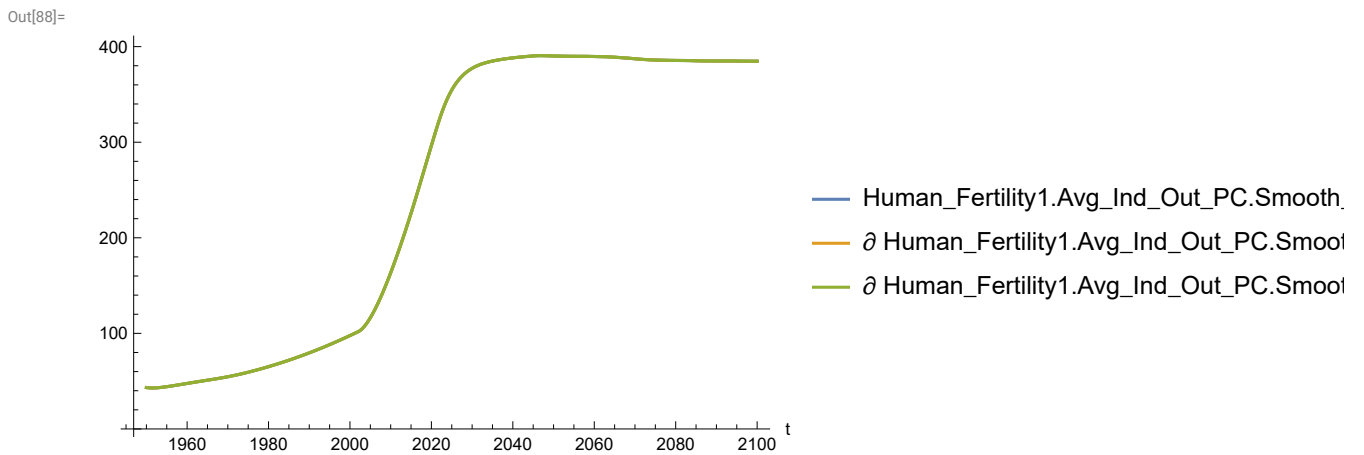
```
In[86]:= SystemModelPlot[simsensdata,
  {"Human_Fertility1.Avg_Ind_Out_PC.Smooth_of_Input.Integrator1.y",
   "Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[3]", percentvar}]
```



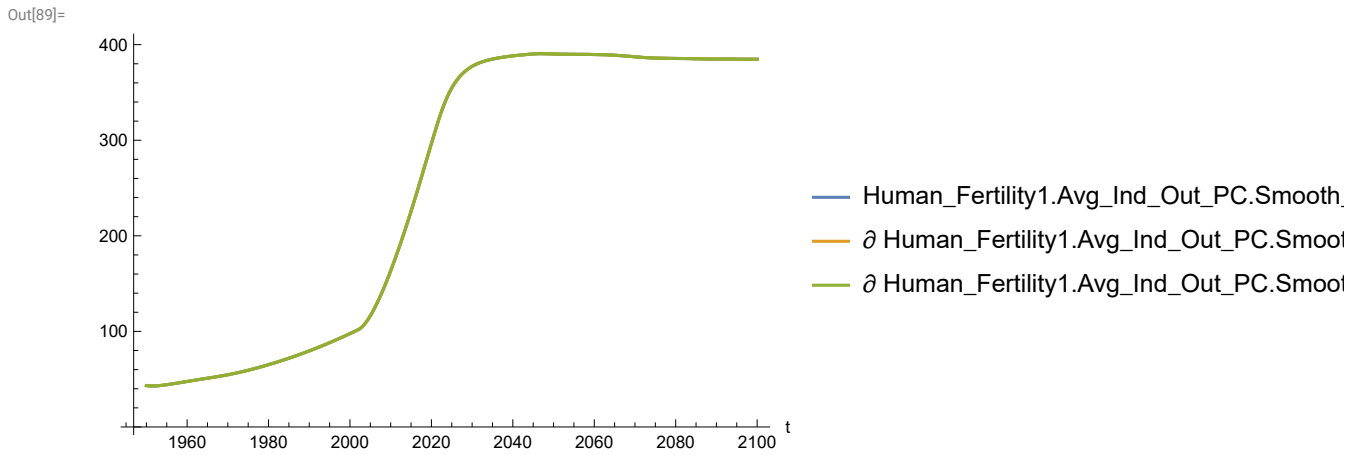
```
In[87]:= SystemModelPlot[simsensdata,
  {"Human_Fertility1.Avg_Ind_Out_PC.Smooth_of_Input.Integrator1.y",
   "Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[4]", percentvar}]
```



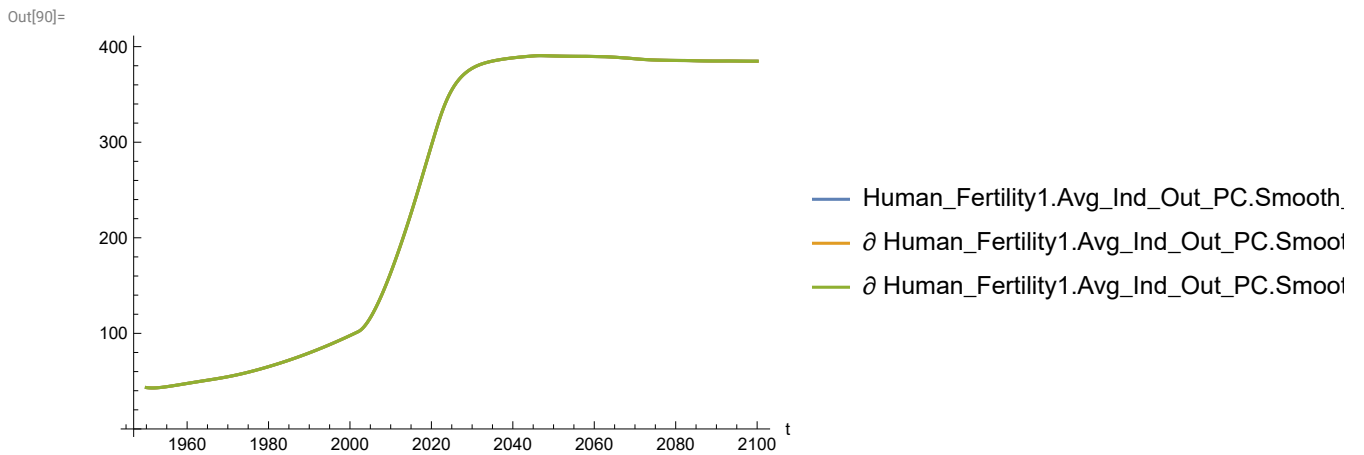
```
In[88]:= SystemModelPlot[simsensdata,
  {"Human_Fertility1.Avg_Ind_Out_PC.Smooth_of_Input.Integrator1.y",
   "Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[5]", percentvar}]
```



```
In[89]:= SystemModelPlot[simsensdata,
  {"Human_Fertility1.Avg_Ind_Out_PC.Smooth_of_Input.Integrator1.y",
   "Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[6]", percentvar}]
```



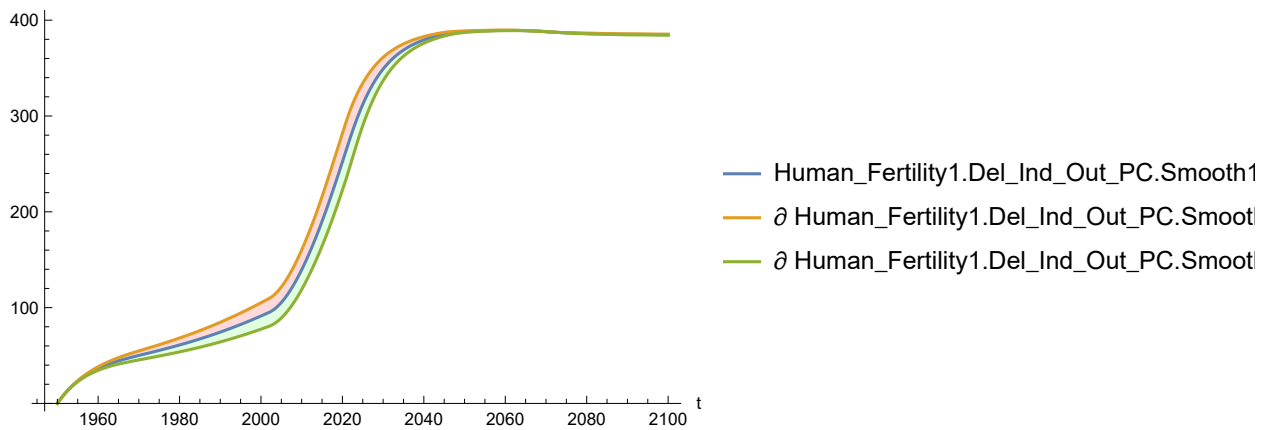
```
In[90]:= SystemModelPlot[simsensdata,
  {"Human_Fertility1.Avg_Ind_Out_PC.Smooth_of_Input.Integrator1.y",
   "Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[7]", percentvar}]
```



Plot the sensitivity of `Human_Fertility1.Del_Ind_Out_PC.Smooth1.Integrator1.y` to `Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals`.

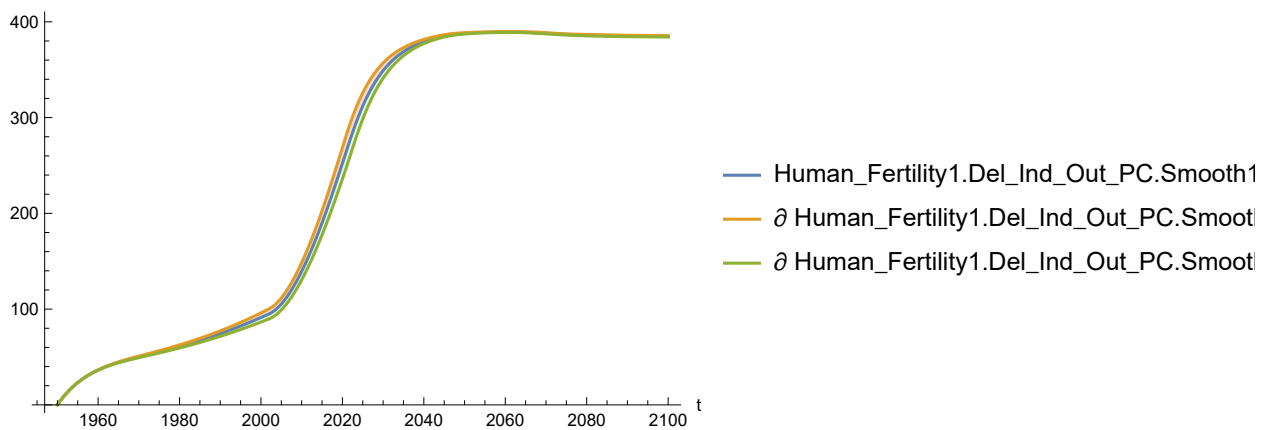

```
In[91]:= SystemModelPlot[simsensdata, {"Human_Fertility1.Del_Ind_Out_PC.Smooth1.Integrator1.y",
"Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[1]", percentvar}]
```

Out[91]=



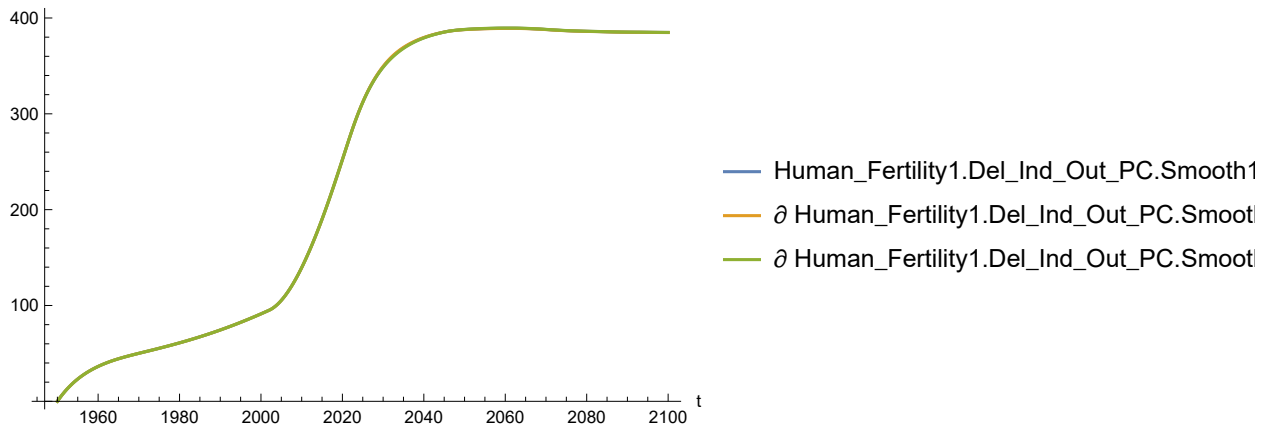
```
In[92]:= SystemModelPlot[simsensdata, {"Human_Fertility1.Del_Ind_Out_PC.Smooth1.Integrator1.y",
"Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[2]", percentvar}]
```

Out[92]=



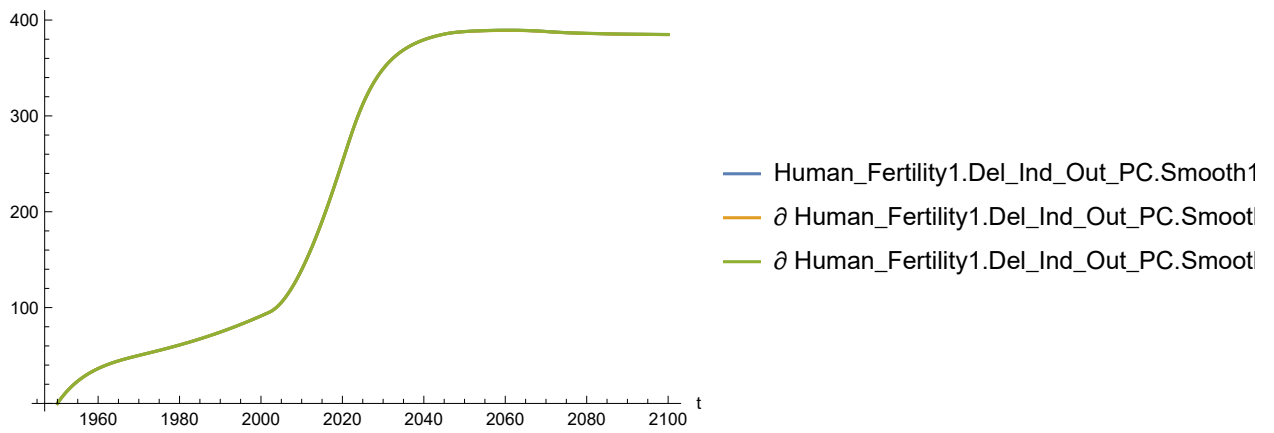
```
In[93]:= SystemModelPlot[simsensdata, {"Human_Fertility1.Del_Ind_Out_PC.Smooth1.Integrator1.y",
"Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[3]", percentvar}]
```

Out[93]=



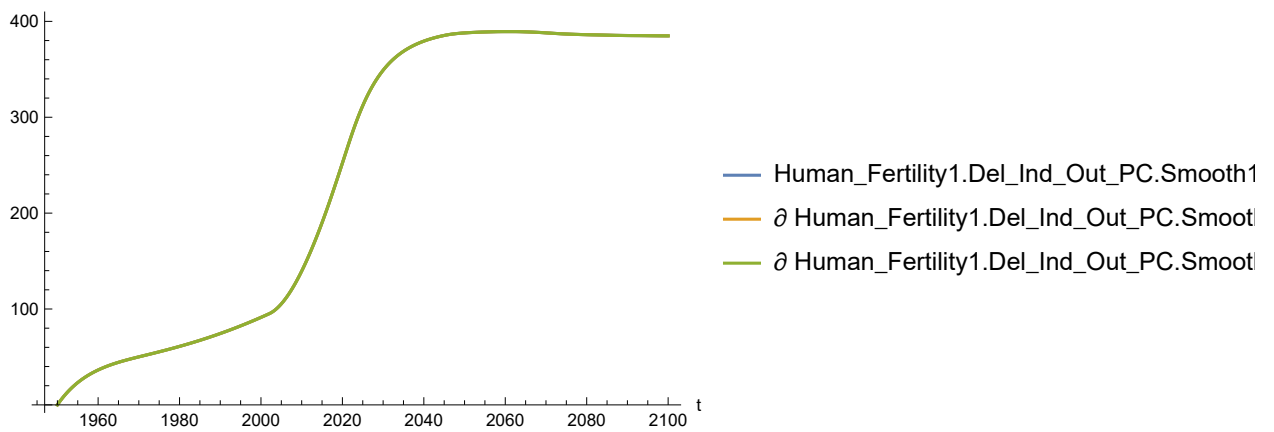
```
In[94]:= SystemModelPlot[simsensdata, {"Human_Fertility1.Del_Ind_Out_PC.Smooth1.Integrator1.y",
"Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[4]", percentvar}]
```

Out[94]=



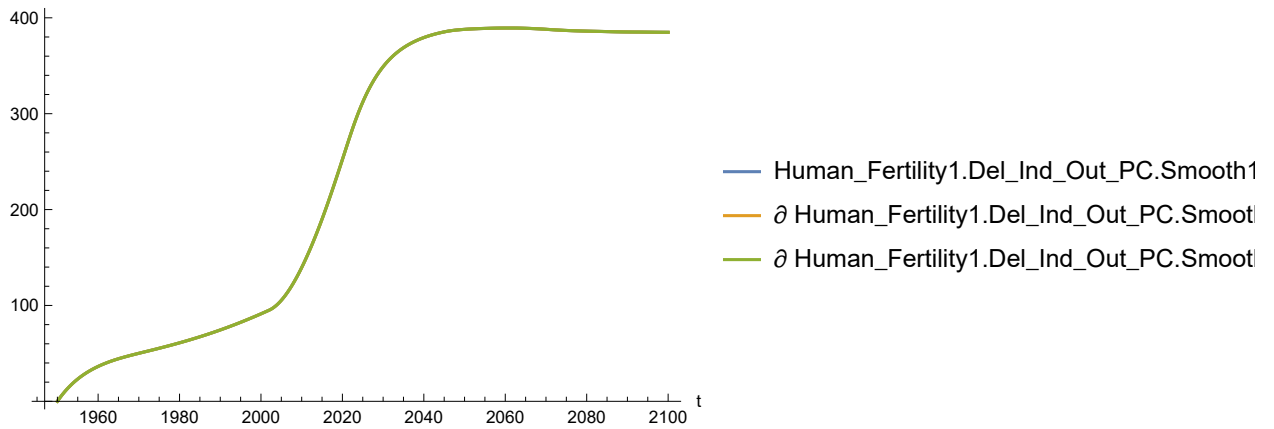
```
In[95]:= SystemModelPlot[simsensdata, {"Human_Fertility1.Del_Ind_Out_PC.Smooth1.Integrator1.y",
"Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[5]", percentvar}]
```

Out[95]=



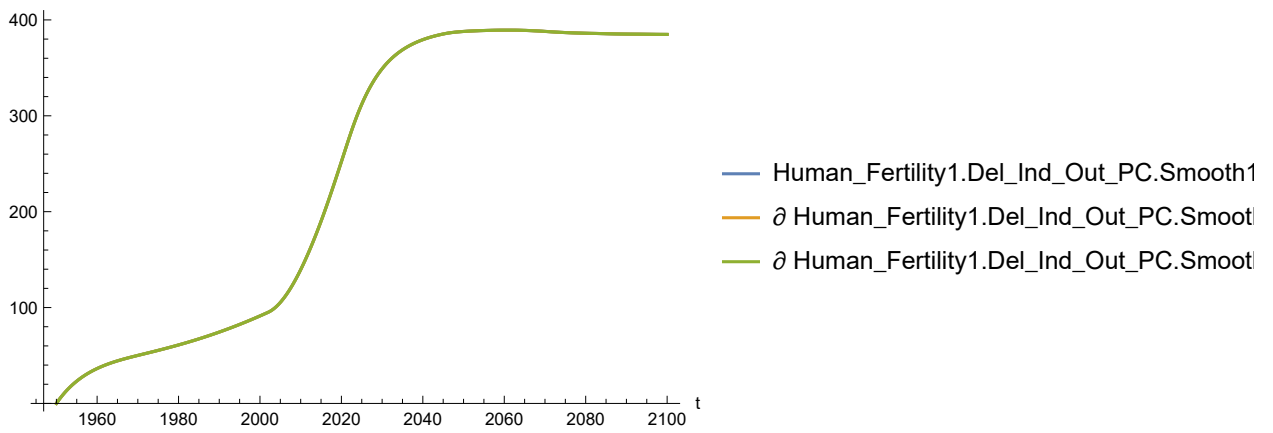
```
In[96]:= SystemModelPlot[simsensdata, {"Human_Fertility1.Del_Ind_Out_PC.Smooth1.Integrator1.y",
"Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[6]", percentvar}]
```

Out[96]=



```
In[97]:= SystemModelPlot[simsensdata, {"Human_Fertility1.De1_Ind_Out_PC.Smooth1.Integrator1.y",
"Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[7]", percentvar}]
```

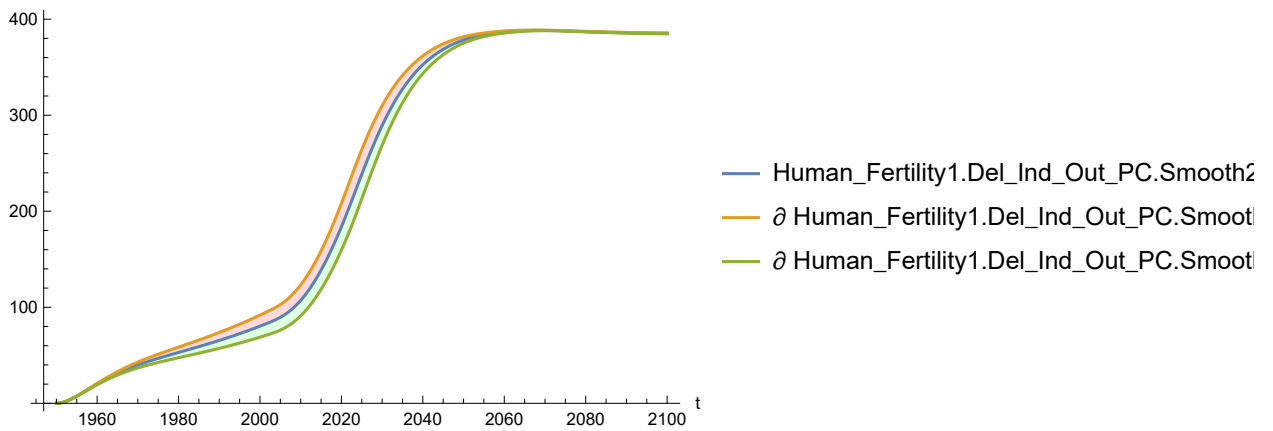
Out[97]=



Plot the sensitivity of Human_Fertility1.De1_Ind_Out_PC.Smooth2.Integrator1.y to Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals.

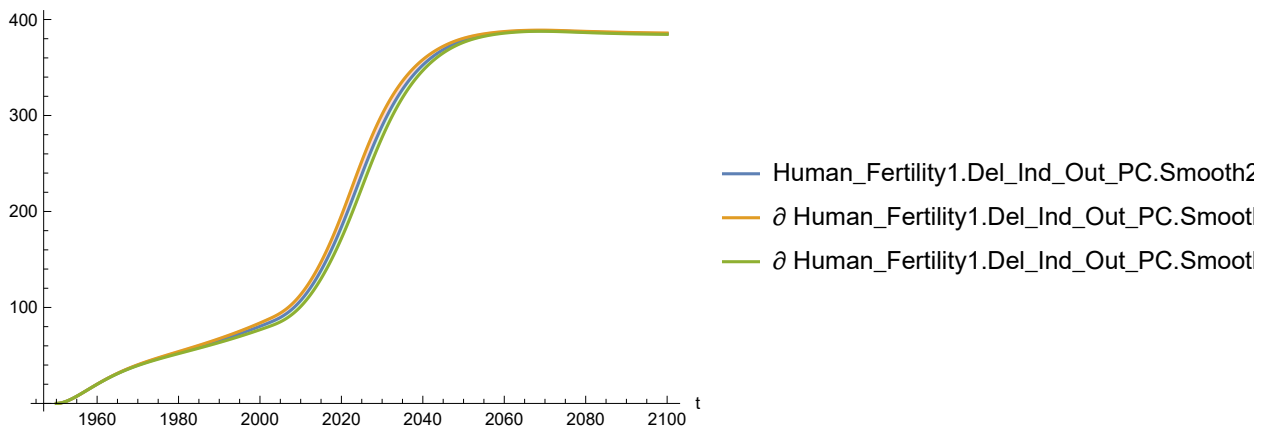
```
In[98]:= SystemModelPlot[simsensdata, {"Human_Fertility1.De1_Ind_Out_PC.Smooth2.Integrator1.y",
"Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[1]", percentvar}]
```

Out[98]=



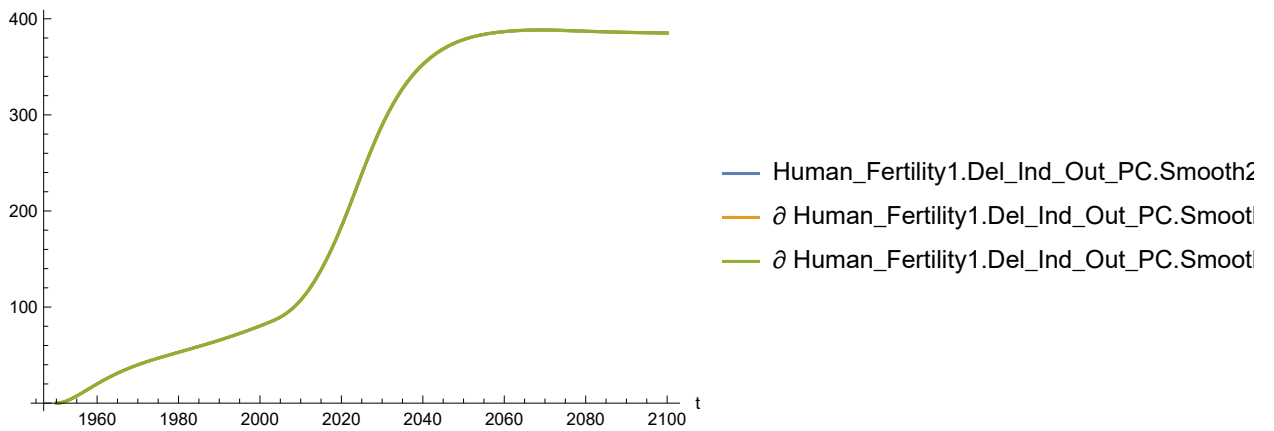
```
In[99]:= SystemModelPlot[simsensdata, {"Human_Fertility1.Del_Ind_Out_PC.Smooth2.Integrator1.y",
"Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[2]", percentvar}]
```

Out[99]=



```
In[100]:= SystemModelPlot[simsensdata, {"Human_Fertility1.Del_Ind_Out_PC.Smooth2.Integrator1.y",
"Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[3]", percentvar}]
```

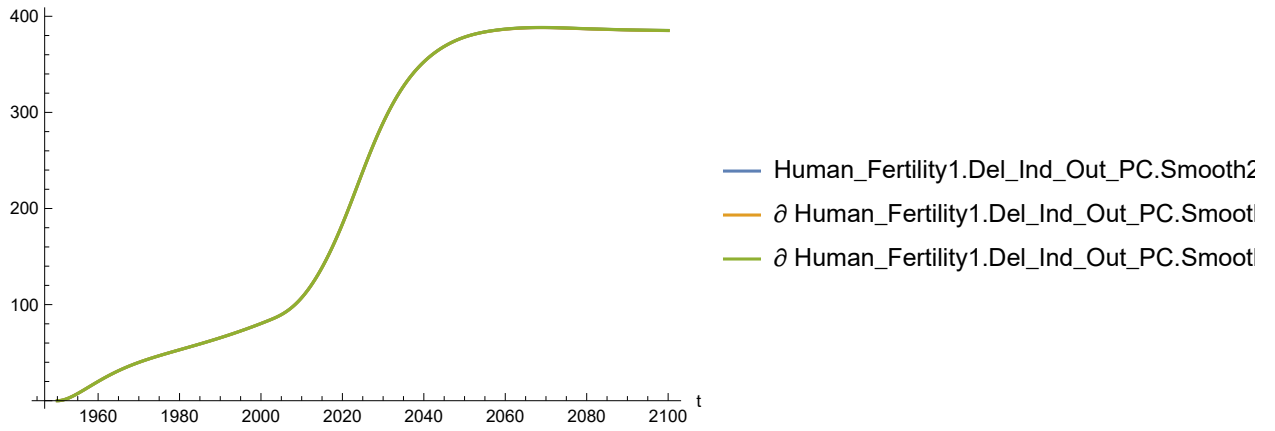
Out[100]=



In[101]:=

```
SystemModelPlot[simsensdata, {"Human_Fertility1.De1_Ind_Out_PC.Smooth2.Integrator1.y",
    "Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[4]", percentvar}]
```

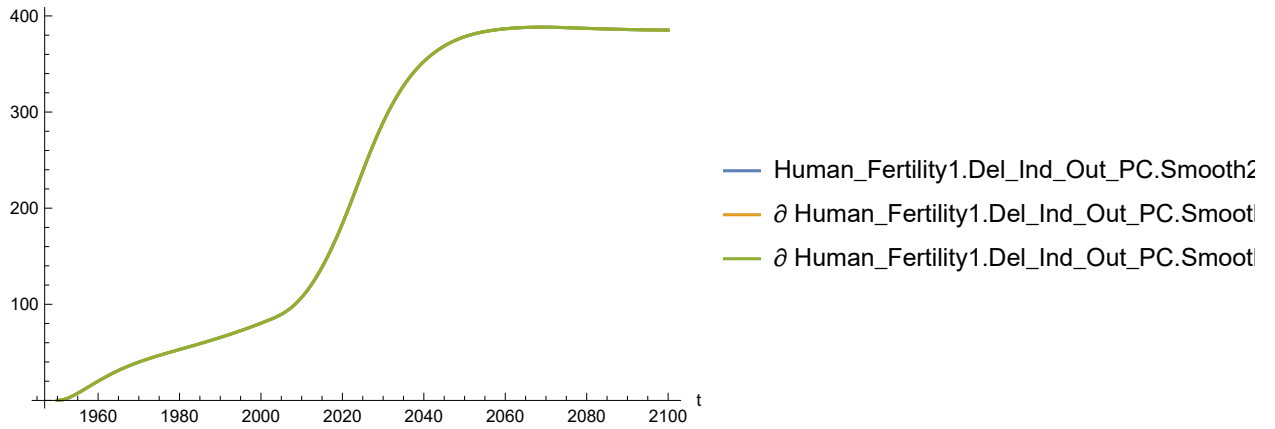
Out[101]=



In[102]:=

```
SystemModelPlot[simsensdata, {"Human_Fertility1.De1_Ind_Out_PC.Smooth2.Integrator1.y",
    "Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[5]", percentvar}]
```

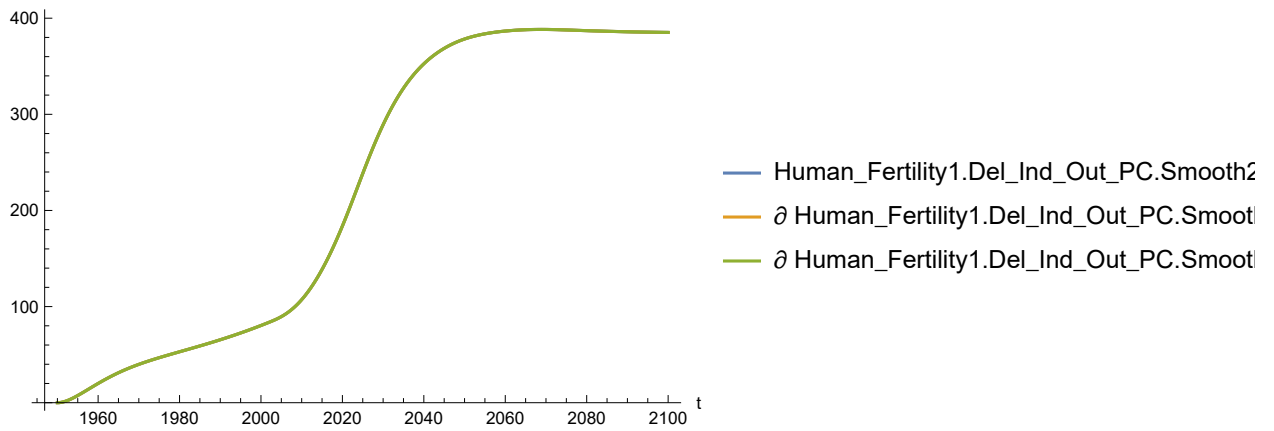
Out[102]=



In[103]:=

```
SystemModelPlot[simsensdata, {"Human_Fertility1.De1_Ind_Out_PC.Smooth2.Integrator1.y",
    "Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[6]", percentvar}]
```

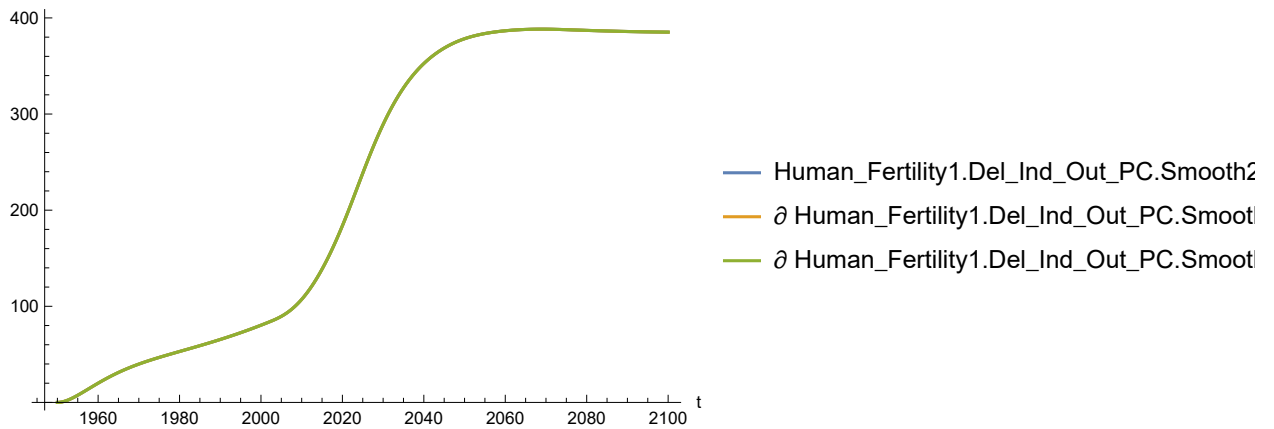
Out[103]=



In[104]:=

```
SystemModelPlot[simsensdata, {"Human_Fertility1.De1_Ind_Out_PC.Smooth2.Integrator1.y",
    "Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[7]", percentvar}]
```

Out[104]=

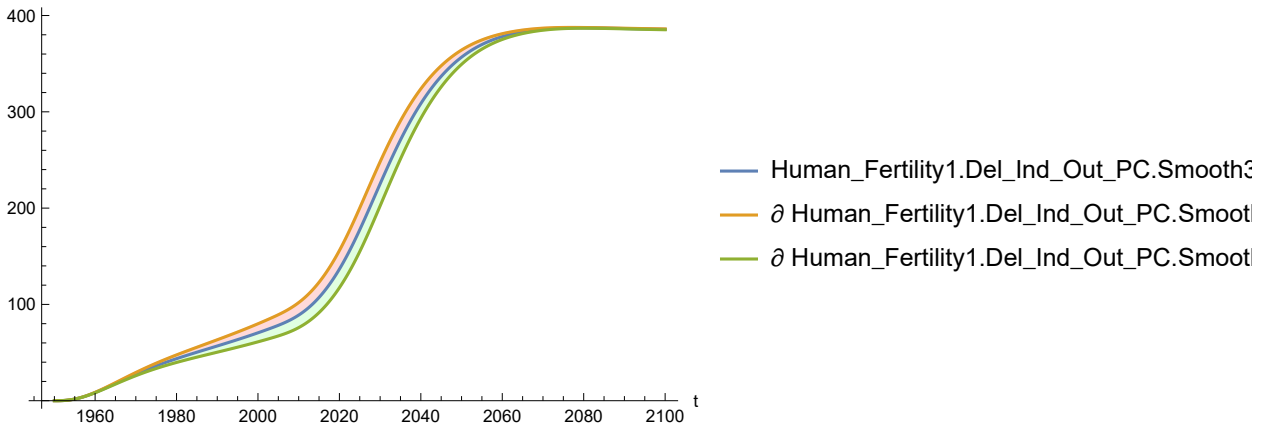


Plot the sensitivity of Human_Fertility1.De1_Ind_Out_PC.Smooth3.Integrator1.y to Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals.

In[105]:=

```
SystemModelPlot[simsensdata, {"Human_Fertility1.Del_Ind_Out_PC.Smooth3.Integrator1.y",
    "Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[1]", percentvar}]
```

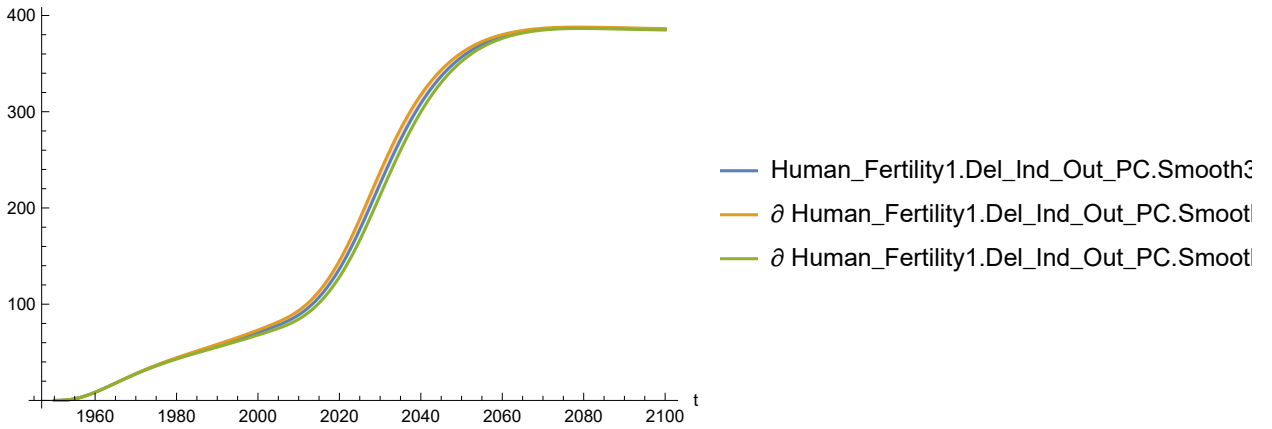
Out[105]=



In[106]:=

```
SystemModelPlot[simsensdata, {"Human_Fertility1.Del_Ind_Out_PC.Smooth3.Integrator1.y",
    "Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[2]", percentvar}]
```

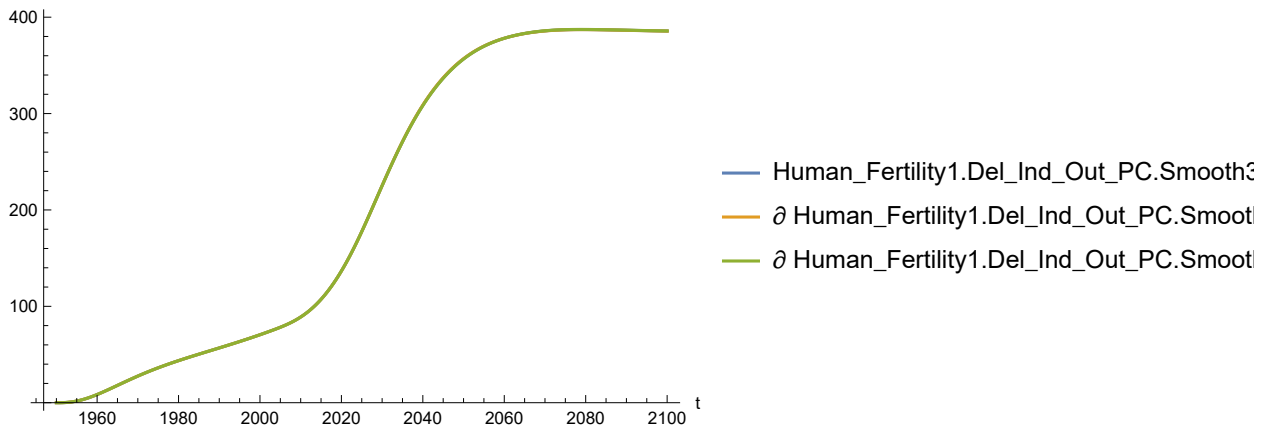
Out[106]=



In[107]:=

```
SystemModelPlot[simsensdata, {"Human_Fertility1.Del_Ind_Out_PC.Smooth3.Integrator1.y",
    "Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[3]", percentvar}]
```

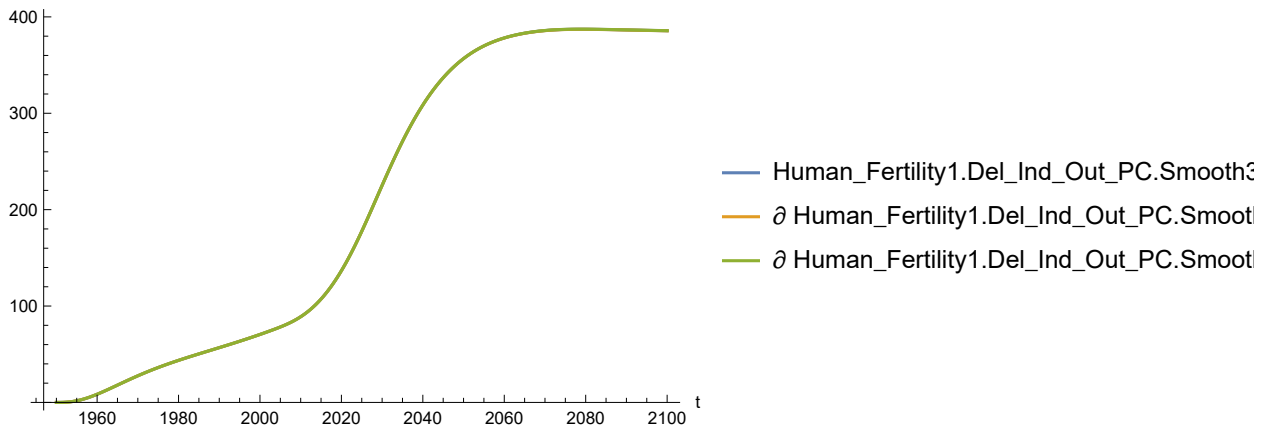
Out[107]=



In[108]:=

```
SystemModelPlot[simsensdata, {"Human_Fertility1.Del_Ind_Out_PC.Smooth3.Integrator1.y",
    "Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[4]", percentvar}]
```

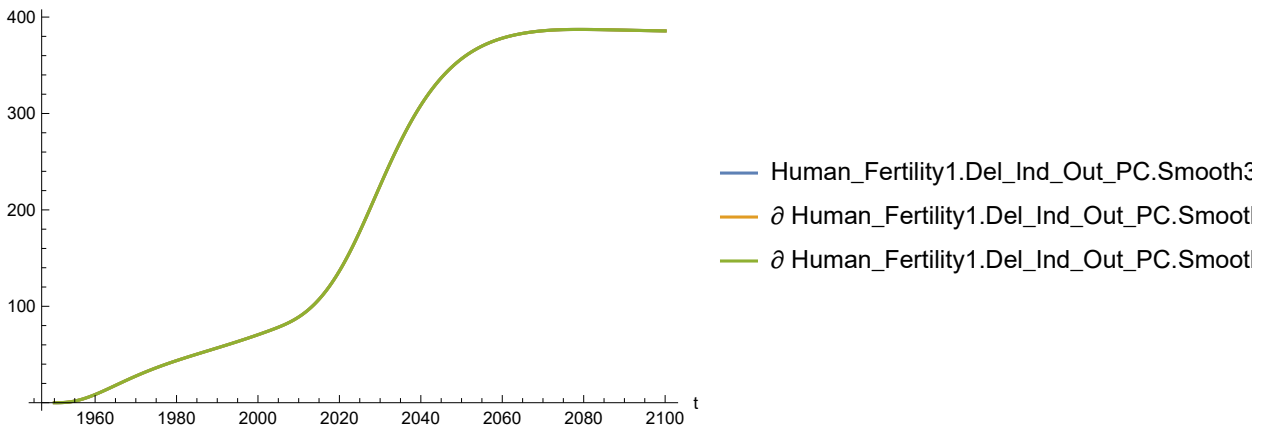
Out[108]=



In[109]:=

```
SystemModelPlot[simsensdata, {"Human_Fertility1.Del_Ind_Out_PC.Smooth3.Integrator1.y",
    "Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[5]", percentvar}]
```

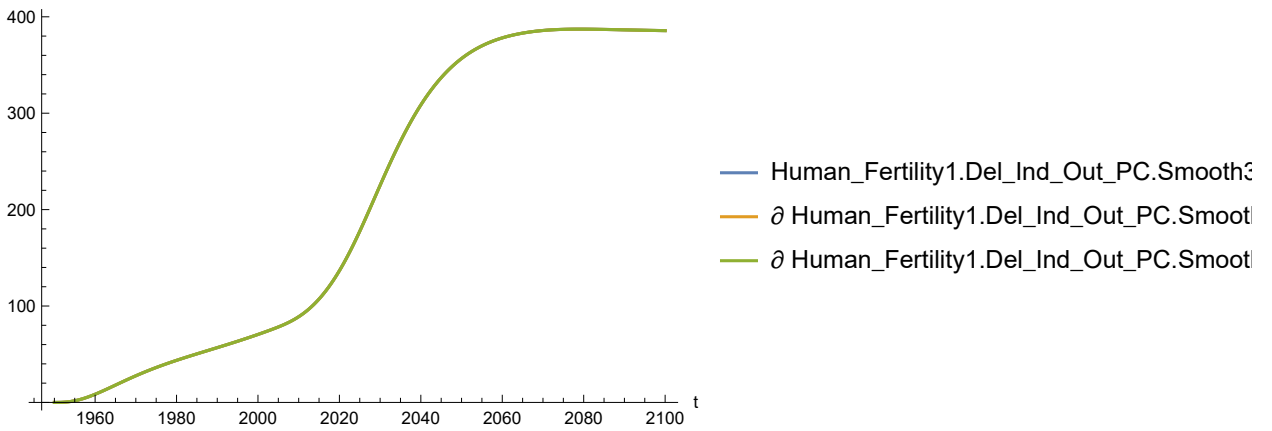
Out[109]=



In[110]:=

```
SystemModelPlot[simsensdata, {"Human_Fertility1.Del_Ind_Out_PC.Smooth3.Integrator1.y",
    "Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[6]", percentvar}]
```

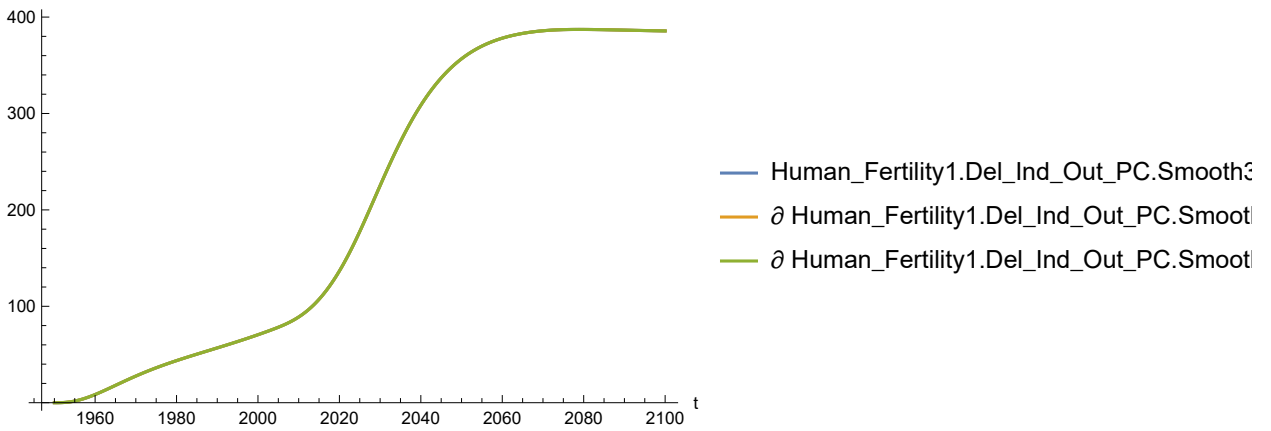
Out[110]=



In[111]:=

```
SystemModelPlot[simsensdata, {"Human_Fertility1.Del_Ind_Out_PC.Smooth3.Integrator1.y",
"Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[7]", percentvar}]]
```

Out[111]=

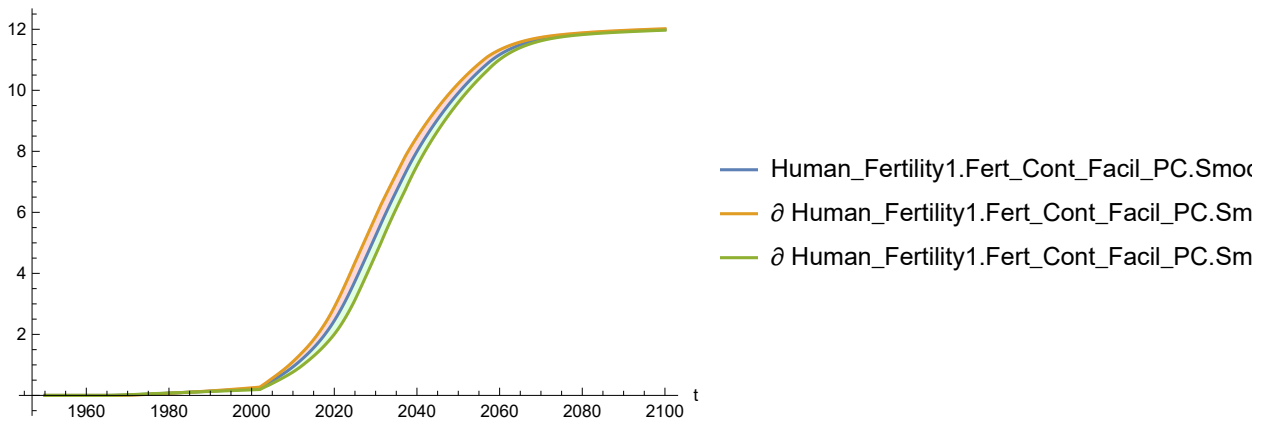


Plot the sensitivity of Human_Fertility1.Fert_Cont_Facil_PC.Smooth1.Integrator1.y to Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals.

In[112]:=

```
SystemModelPlot[simsensdata, {"Human_Fertility1.Fert_Cont_Facil_PC.Smooth1.Integrator1.y",
"Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[1]", percentvar}]]
```

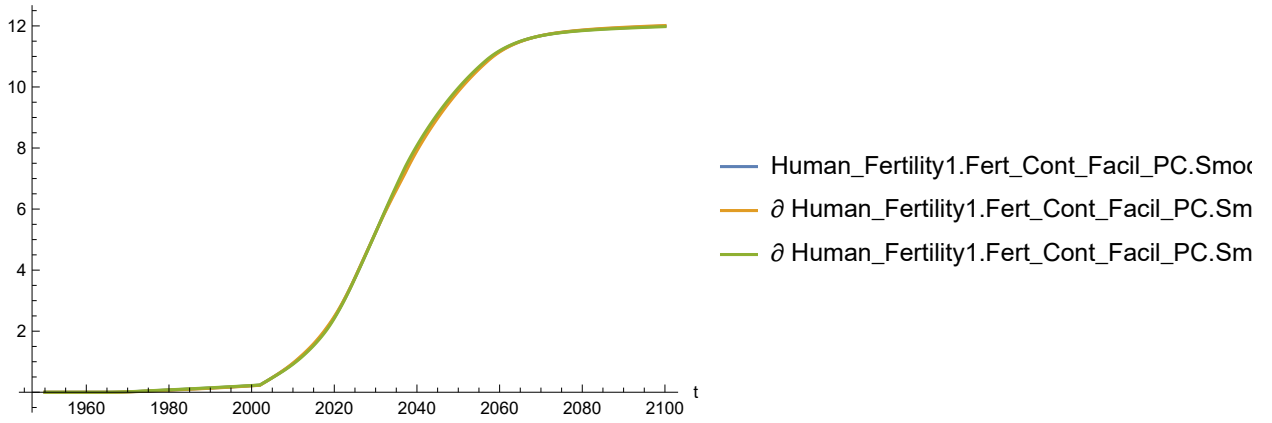
Out[112]=



In[113]:=

```
SystemModelPlot[simsensdata,
  {"Human_Fertility1.Fert_Cont_Facil_PC.Smooth1.Integrator1.y",
   "Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[2]", percentvar}]
```

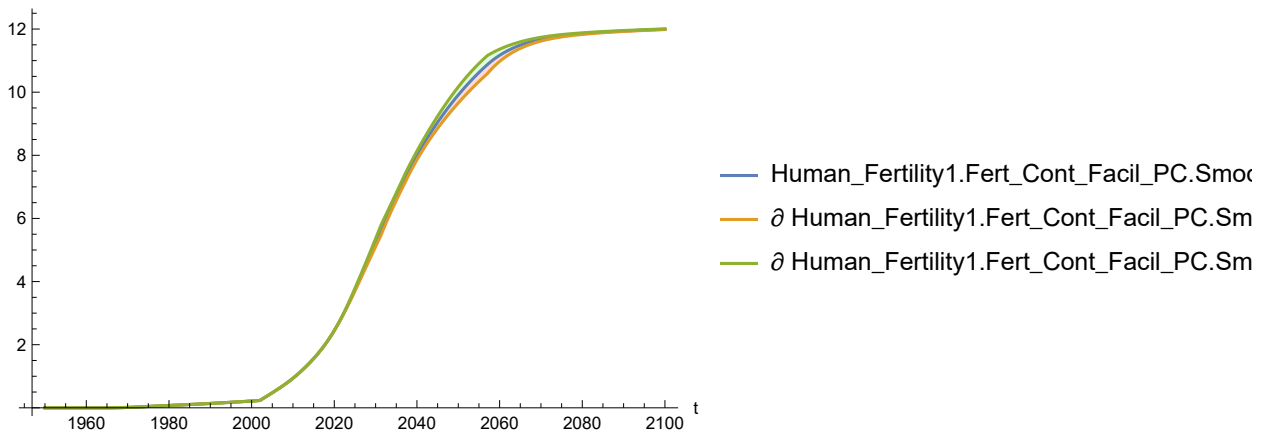
Out[113]=



In[114]:=

```
SystemModelPlot[simsensdata,
  {"Human_Fertility1.Fert_Cont_Facil_PC.Smooth1.Integrator1.y",
   "Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[3]", percentvar}]
```

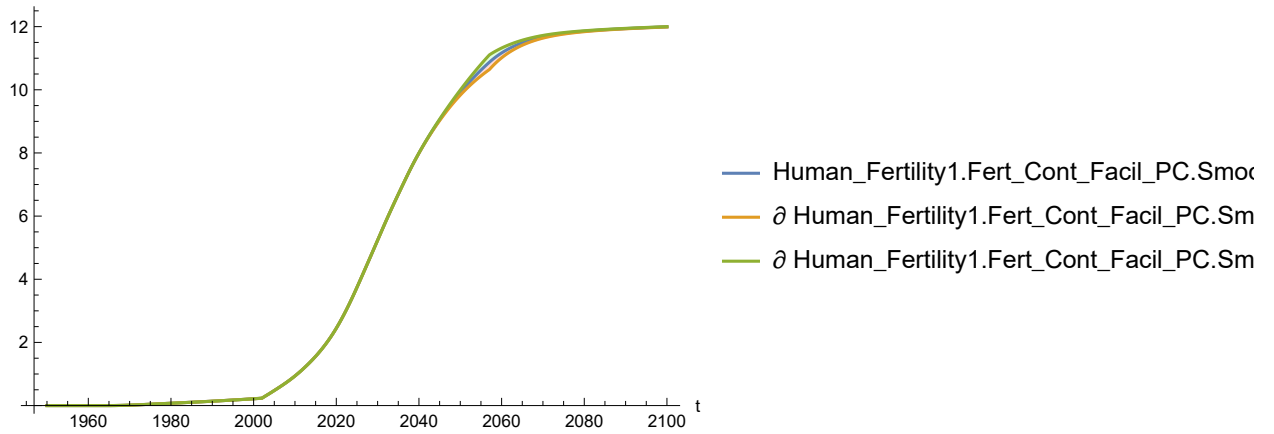
Out[114]=



In[115]:=

```
SystemModelPlot[simsensdata,
  {"Human_Fertility1.Fert_Cont_Facil_PC.Smooth1.Integrator1.y",
   "Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[4]", percentvar}]
```

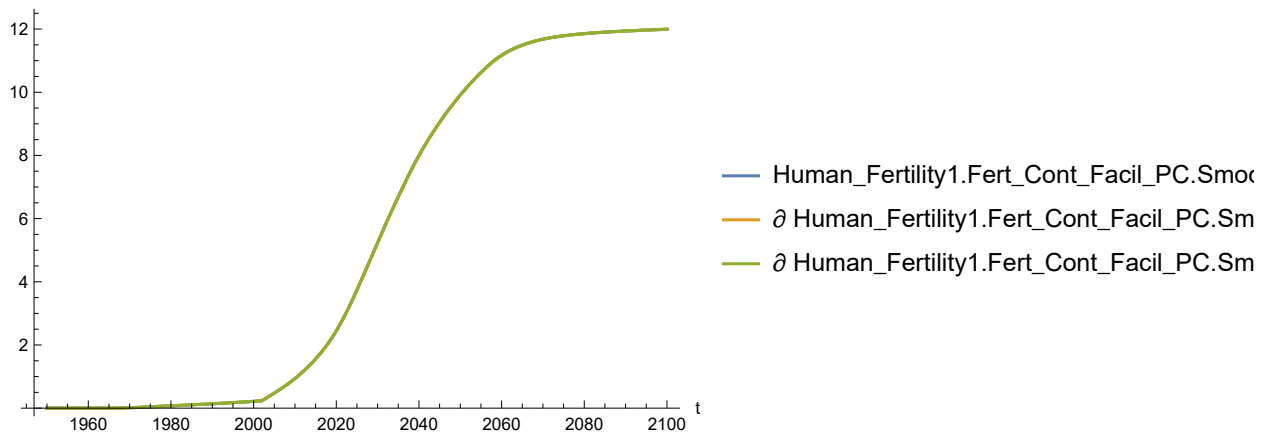
Out[115]=



In[116]:=

```
SystemModelPlot[simsensdata,
  {"Human_Fertility1.Fert_Cont_Facil_PC.Smooth1.Integrator1.y",
   "Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[5]", percentvar}]
```

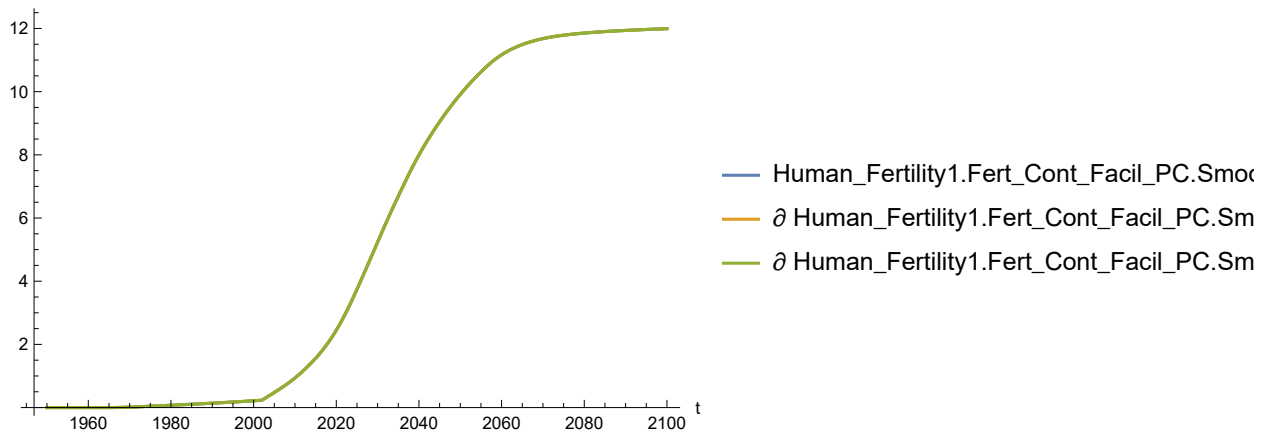
Out[116]=



In[117]:=

```
SystemModelPlot[simsensdata,
  {"Human_Fertility1.Fert_Cont_Facil_PC.Smooth1.Integrator1.y",
   "Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[6]", percentvar}]
```

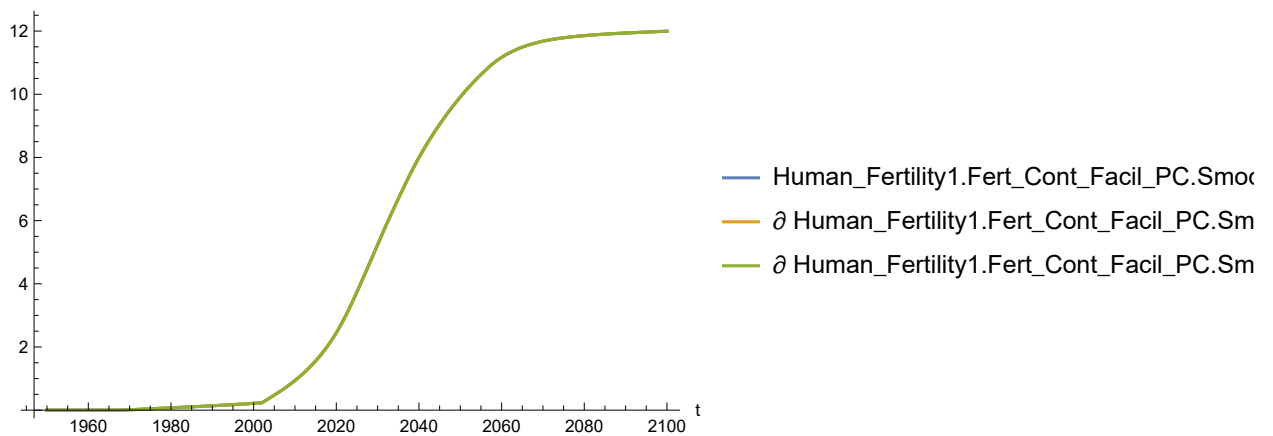
Out[117]=



In[118]:=

```
SystemModelPlot[simsensdata,
  {"Human_Fertility1.Fert_Cont_Facil_PC.Smooth1.Integrator1.y",
   "Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[7]", percentvar}]
```

Out[118]=

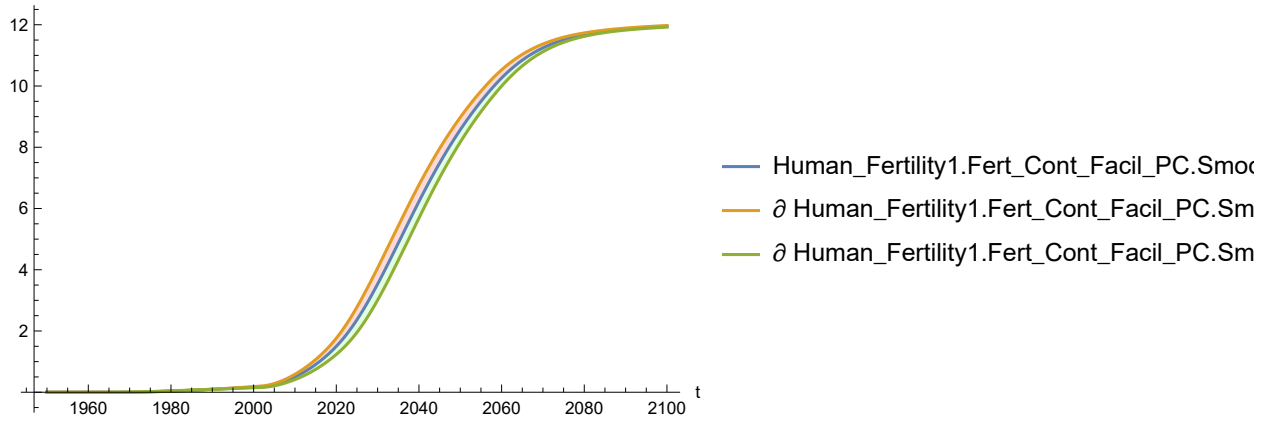


Plot the sensitivity of Human_Fertility1.Fert_Cont_Facil_PC.Smooth2.Integrator1.y to Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals.

In[119]:=

```
SystemModelPlot[simsensdata,
  {"Human_Fertility1.Fert_Cont_Facil_PC.Smooth2.Integrator1.y",
   "Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[1]", percentvar}]
```

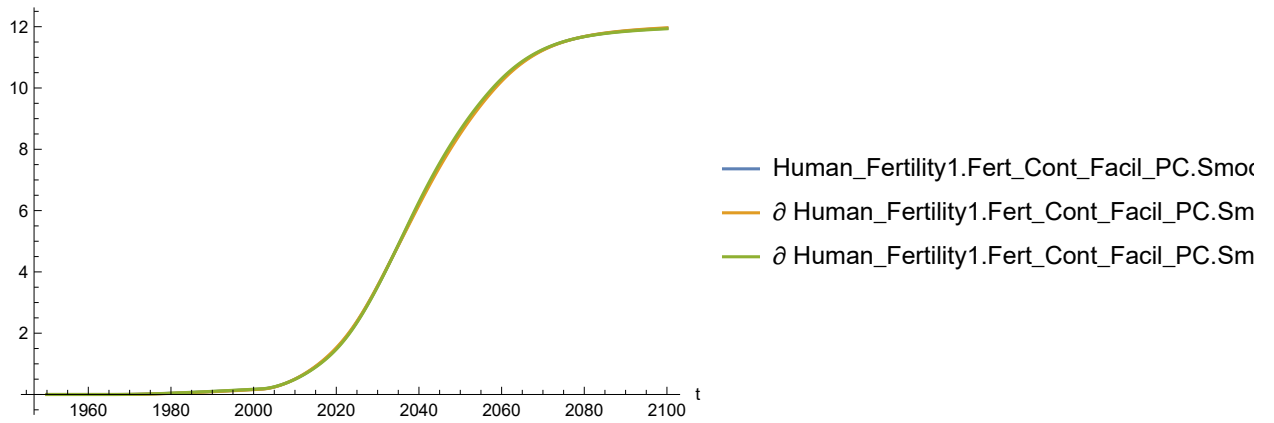
Out[119]=



In[120]:=

```
SystemModelPlot[simsensdata,
  {"Human_Fertility1.Fert_Cont_Facil_PC.Smooth2.Integrator1.y",
   "Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[2]", percentvar}]
```

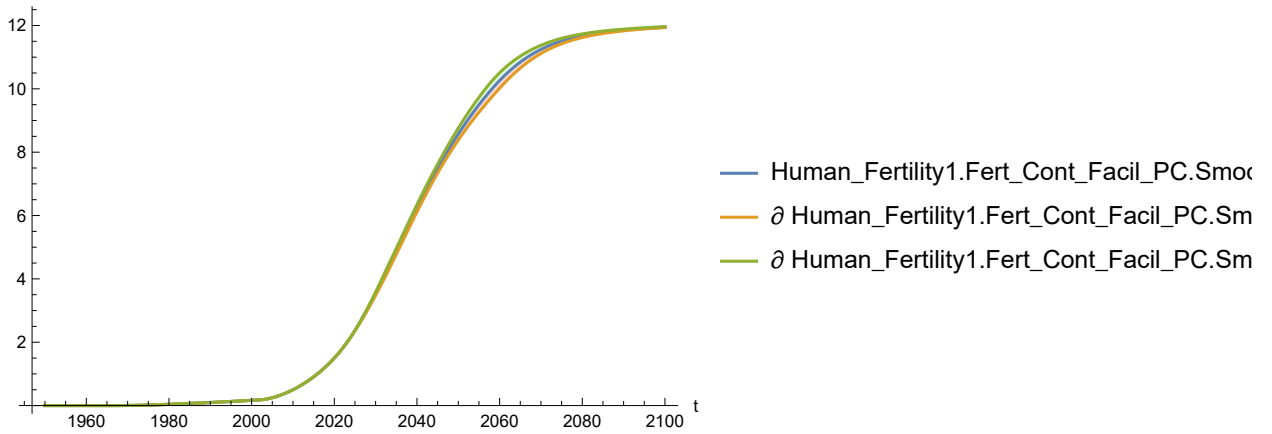
Out[120]=



In[121]:=

```
SystemModelPlot[simsensdata,
  {"Human_Fertility1.Fert_Cont_Facil_PC.Smooth2.Integrator1.y",
   "Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[3]", percentvar}]
```

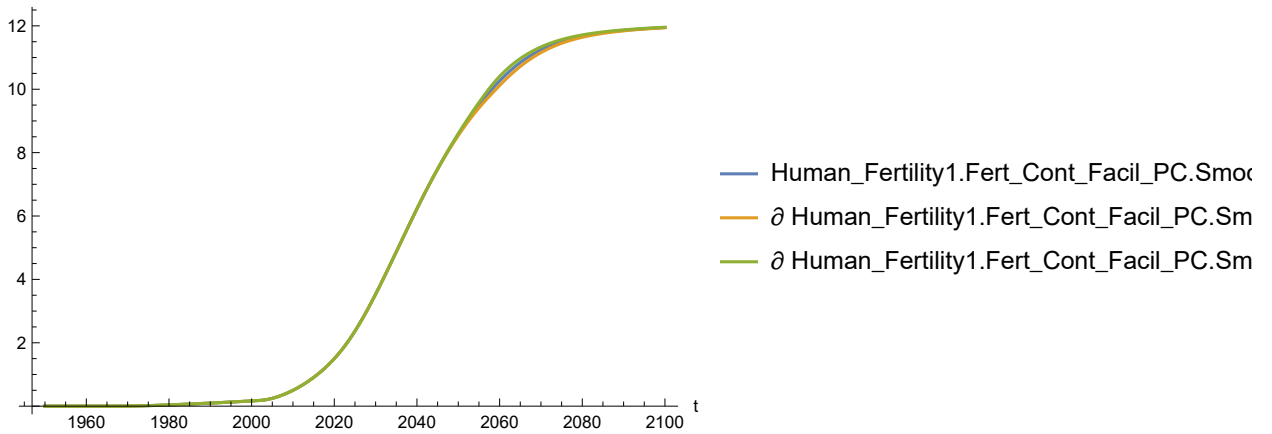
Out[121]=



In[122]:=

```
SystemModelPlot[simsensdata,
  {"Human_Fertility1.Fert_Cont_Facil_PC.Smooth2.Integrator1.y",
   "Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[4]", percentvar}]
```

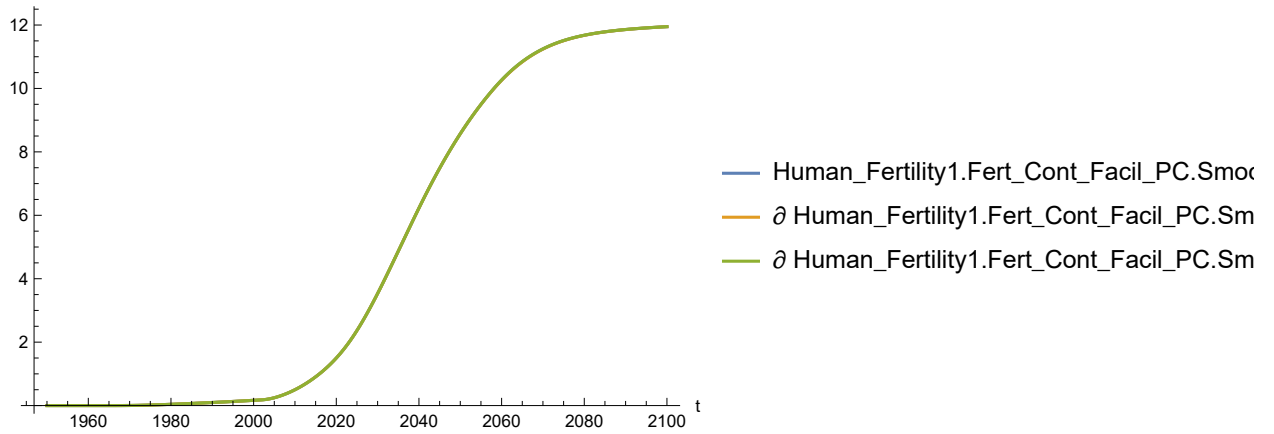
Out[122]=



In[123]:=

```
SystemModelPlot[simsensdata,
  {"Human_Fertility1.Fert_Cont_Facil_PC.Smooth2.Integrator1.y",
   "Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[5]", percentvar}]
```

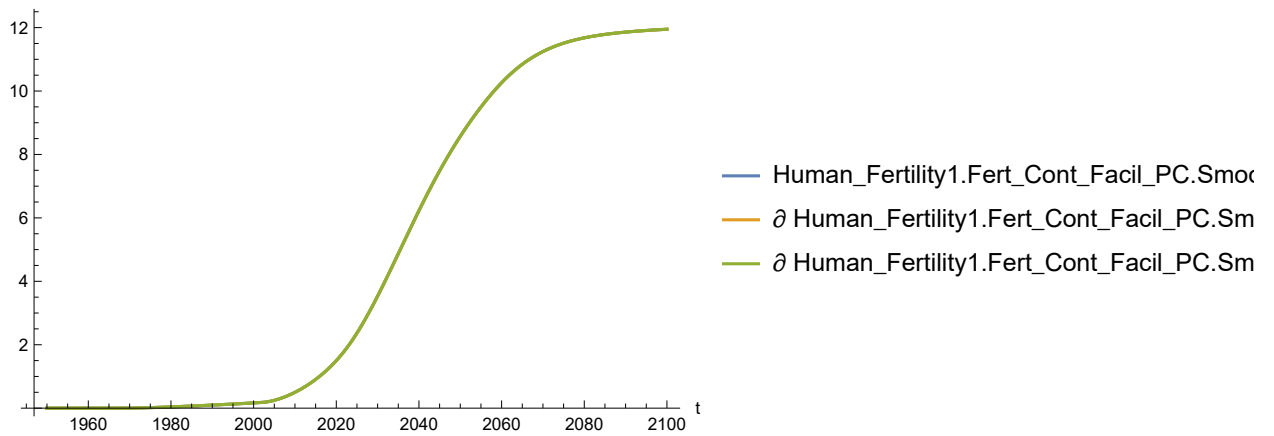
Out[123]=



In[124]:=

```
SystemModelPlot[simsensdata,
  {"Human_Fertility1.Fert_Cont_Facil_PC.Smooth2.Integrator1.y",
   "Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[6]", percentvar}]
```

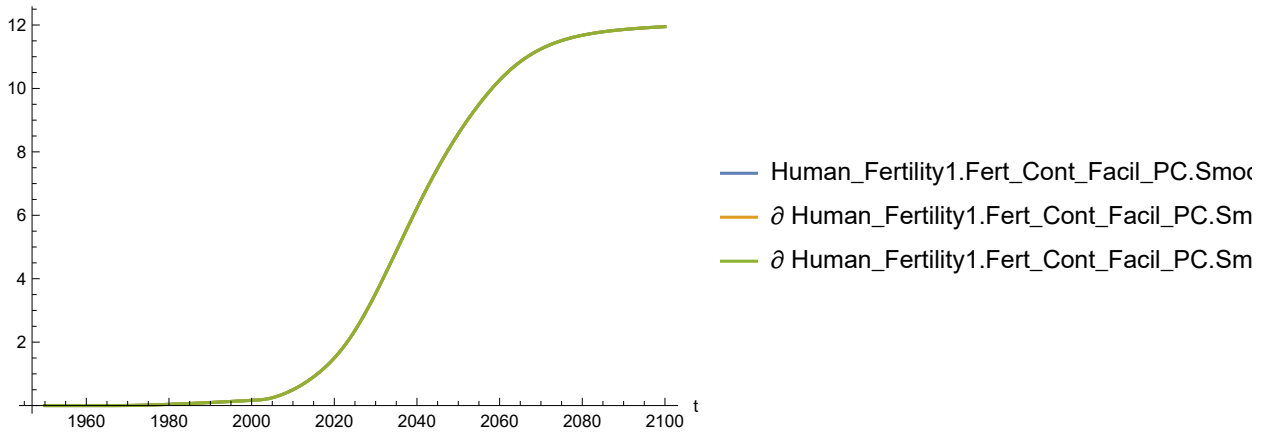
Out[124]=



In[125]:=

```
SystemModelPlot[simsensdata,
  {"Human_Fertility1.Fert_Cont_Facil_PC.Smooth2.Integrator1.y",
   "Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[7]", percentvar}]
```

Out[125]=

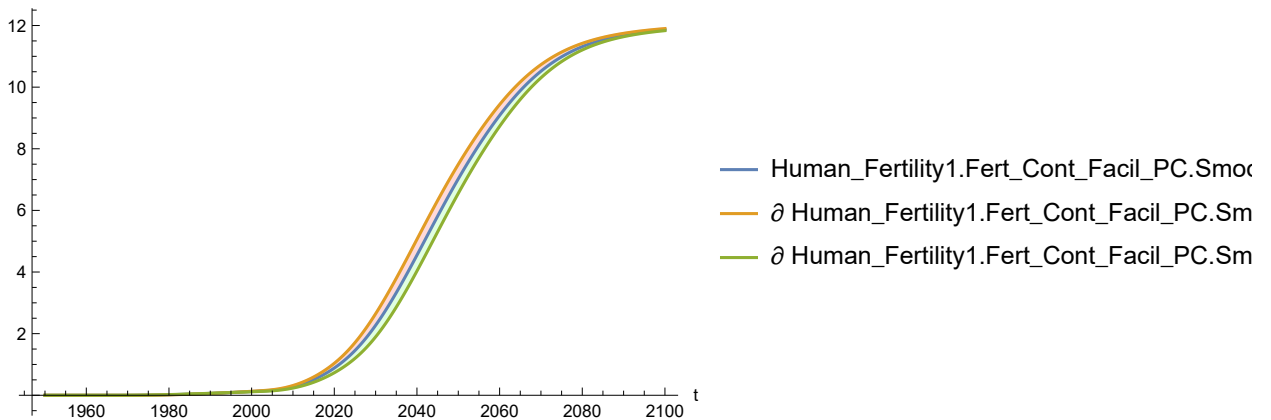


Plot the sensitivity of Human_Fertility1.Fert_Cont_Facil_PC.Smooth3.Integrator1.y to Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals.

In[126]:=

```
SystemModelPlot[simsensdata,
  {"Human_Fertility1.Fert_Cont_Facil_PC.Smooth3.Integrator1.y",
   "Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[1]", percentvar}]
```

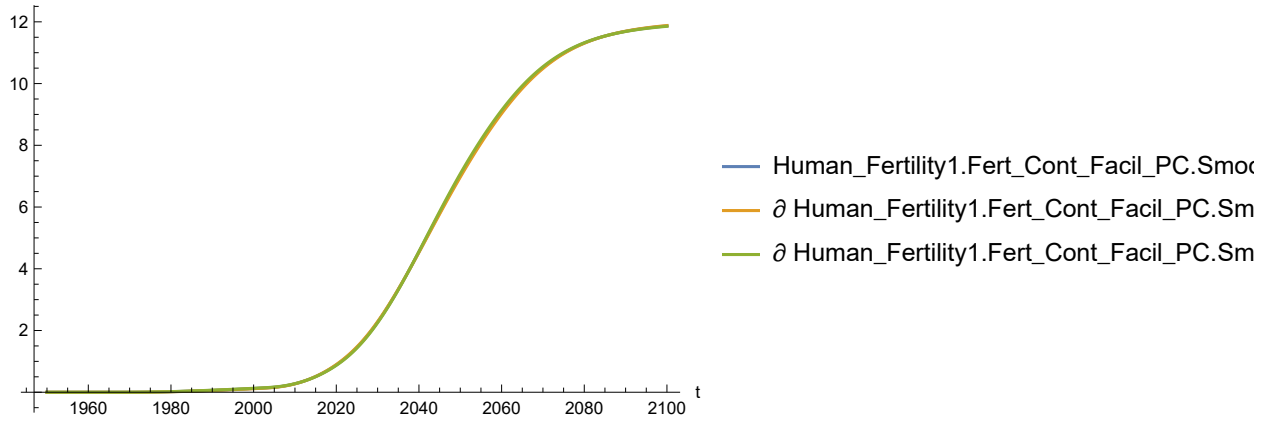
Out[126]=



In[127]:=

```
SystemModelPlot[simsensdata,
  {"Human_Fertility1.Fert_Cont_Facil_PC.Smooth3.Integrator1.y",
   "Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[2]", percentvar}]
```

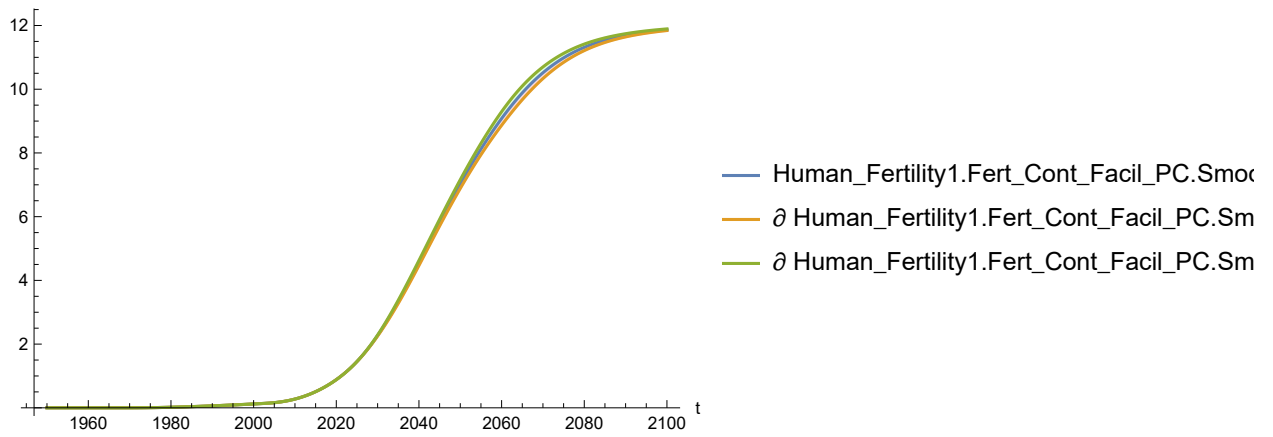
Out[127]=



In[128]:=

```
SystemModelPlot[simsensdata,
  {"Human_Fertility1.Fert_Cont_Facil_PC.Smooth3.Integrator1.y",
   "Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[3]", percentvar}]
```

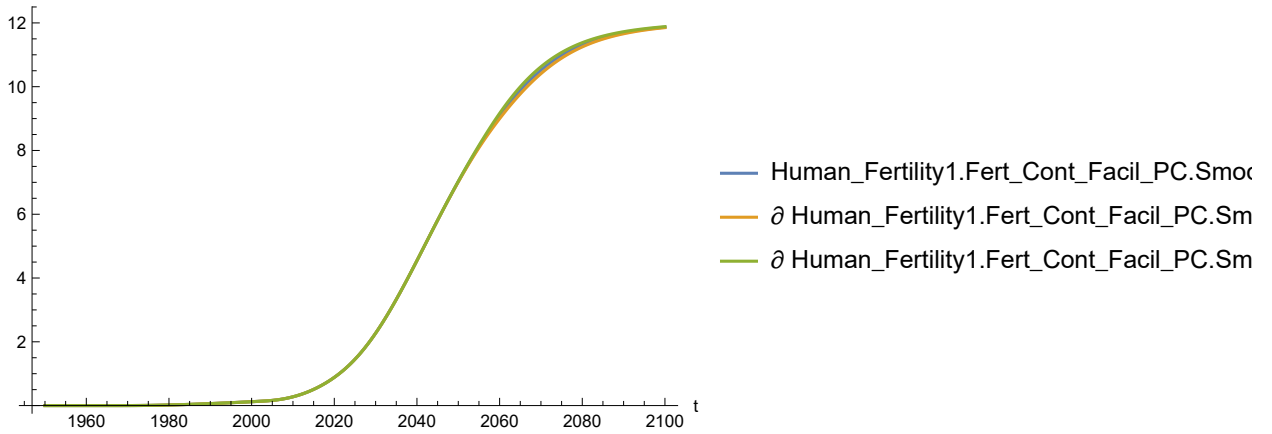
Out[128]=



In[129]:=

```
SystemModelPlot[simsensdata,
  {"Human_Fertility1.Fert_Cont_Facil_PC.Smooth3.Integrator1.y",
   "Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[4]", percentvar}]
```

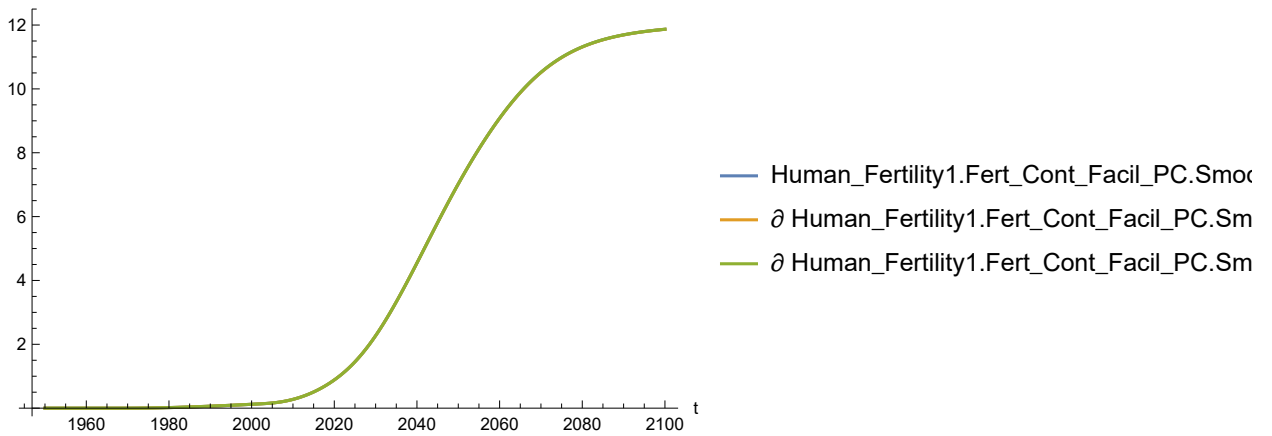
Out[129]=



In[130]:=

```
SystemModelPlot[simsensdata,
  {"Human_Fertility1.Fert_Cont_Facil_PC.Smooth3.Integrator1.y",
   "Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[5]", percentvar}]
```

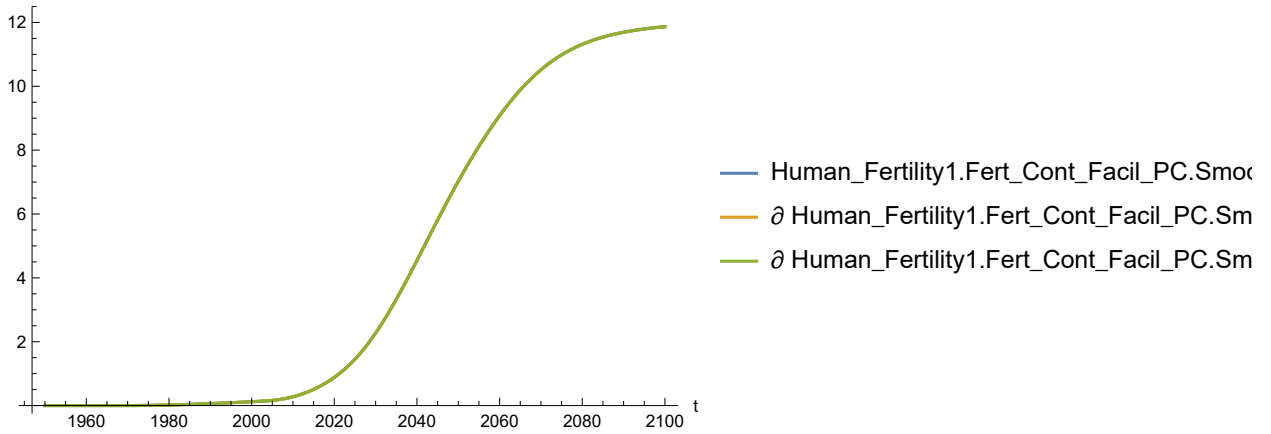
Out[130]=



In[131]:=

```
SystemModelPlot[simsensdata,
  {"Human_Fertility1.Fert_Cont_Facil_PC.Smooth3.Integrator1.y",
   "Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[6]", percentvar}]
```

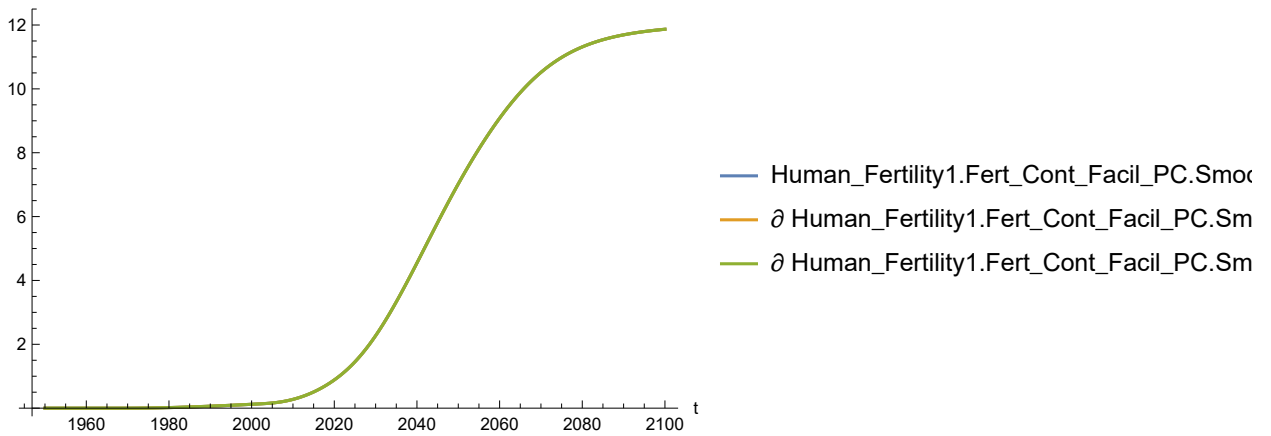
Out[131]=



In[132]:=

```
SystemModelPlot[simsensdata,
  {"Human_Fertility1.Fert_Cont_Facil_PC.Smooth3.Integrator1.y",
   "Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[7]", percentvar}]
```

Out[132]=

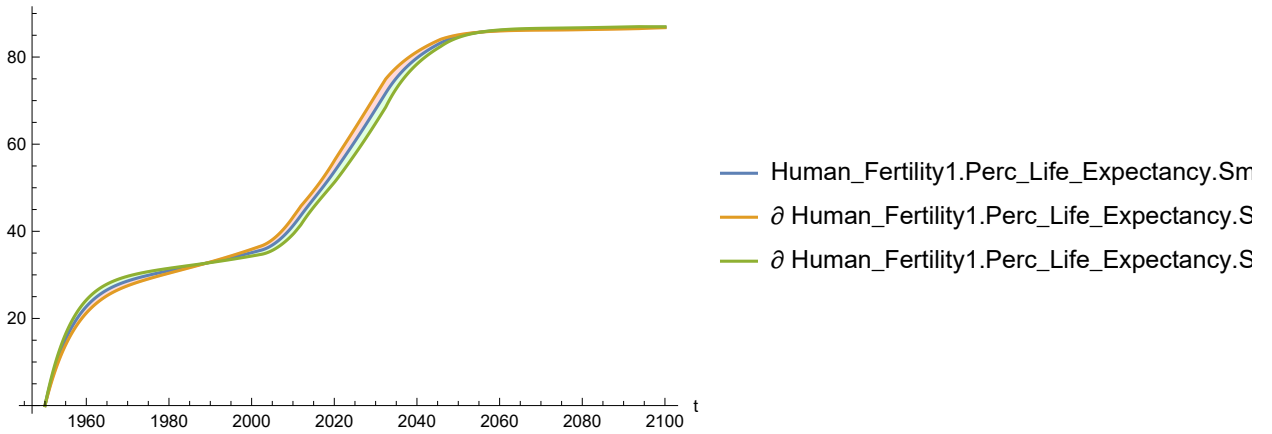


Plot the sensitivity of Human_Fertility1.Perc_Life_Expectancy.Smooth1.Integrator1.y to Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals.

In[133]:=

```
SystemModelPlot[simsensdata,
  {"Human_Fertility1.Perc_Life_Expectancy.Smooth1.Integrator1.y",
   "Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[1]", percentvar}]
```

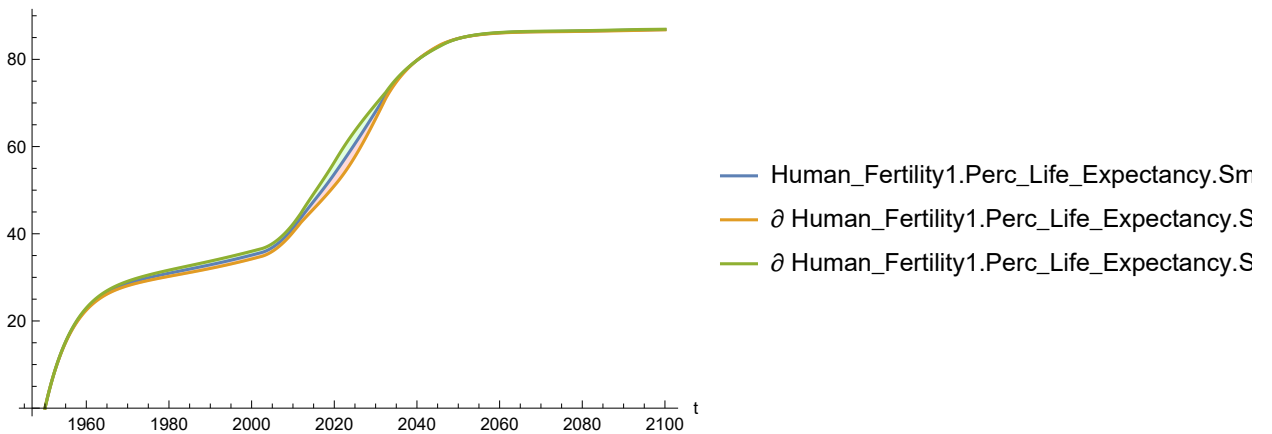
Out[133]=



In[134]:=

```
SystemModelPlot[simsensdata,
  {"Human_Fertility1.Perc_Life_Expectancy.Smooth1.Integrator1.y",
   "Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[2]", percentvar}]
```

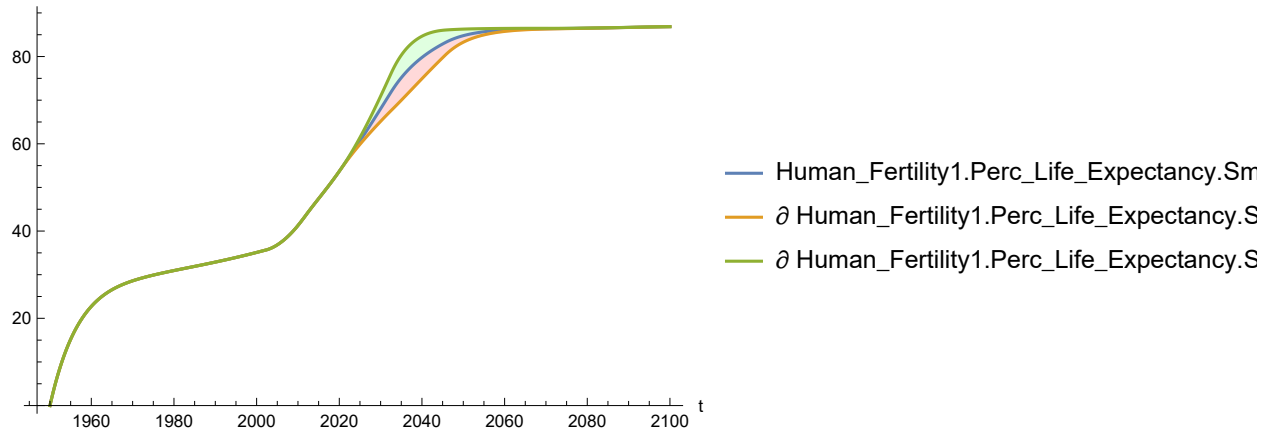
Out[134]=



In[135]:=

```
SystemModelPlot[simsensdata,
  {"Human_Fertility1.Perc_Life_Expectancy.Smooth1.Integrator1.y",
   "Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[3]", percentvar}]
```

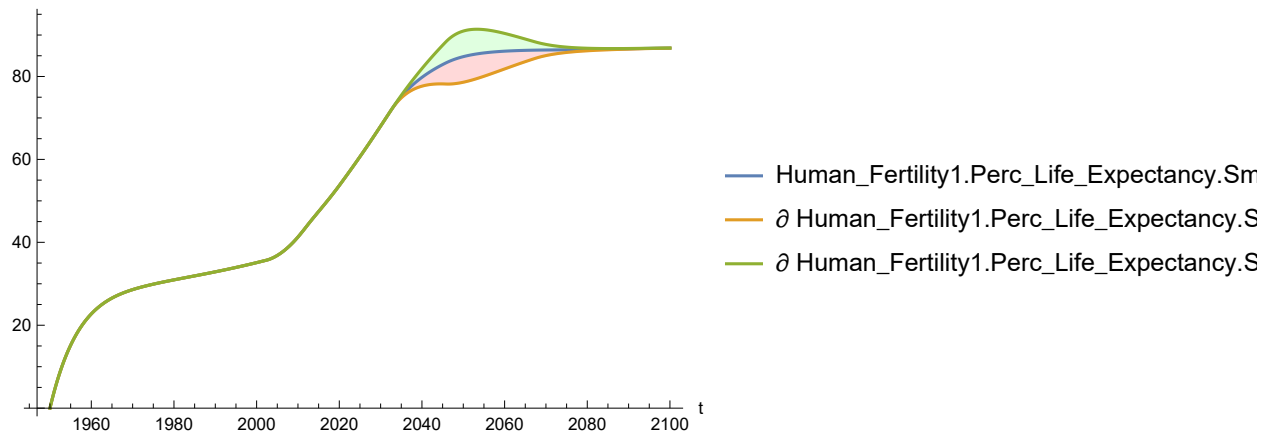
Out[135]=



In[136]:=

```
SystemModelPlot[simsensdata,
  {"Human_Fertility1.Perc_Life_Expectancy.Smooth1.Integrator1.y",
   "Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[4]", percentvar}]
```

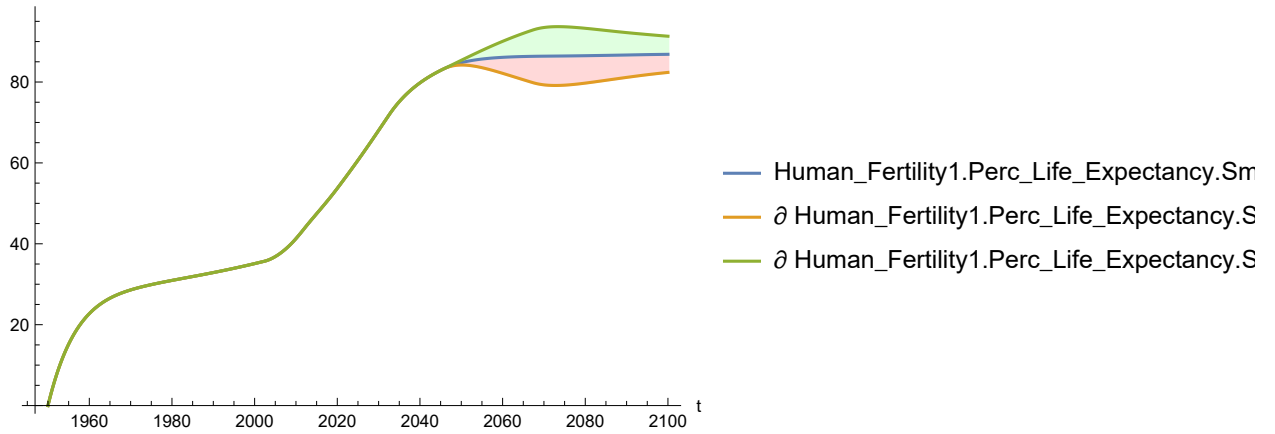
Out[136]=



In[137]:=

```
SystemModelPlot[simsensdata,
  {"Human_Fertility1.Perc_Life_Expectancy.Smooth1.Integrator1.y",
   "Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[5]", percentvar}]
```

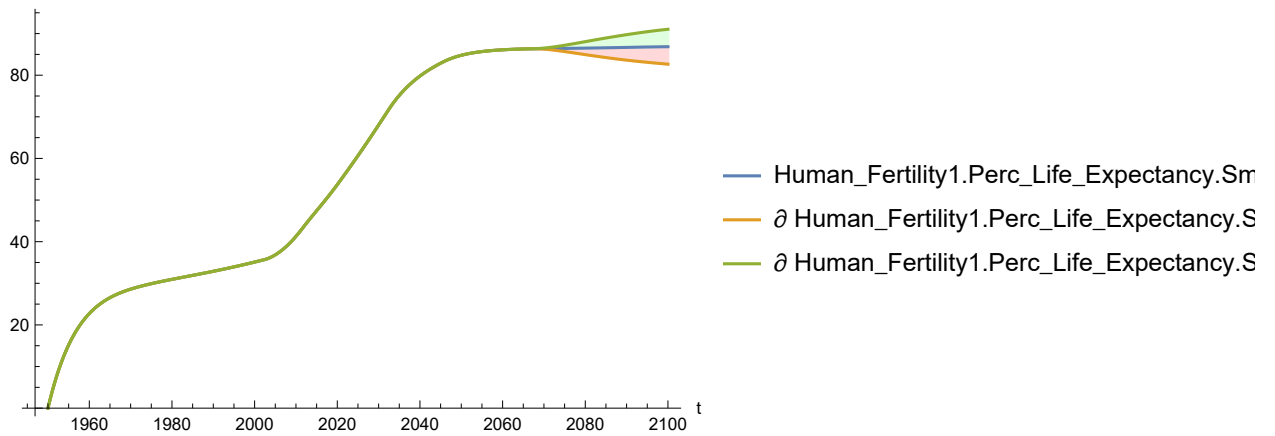
Out[137]=



In[138]:=

```
SystemModelPlot[simsensdata,
  {"Human_Fertility1.Perc_Life_Expectancy.Smooth1.Integrator1.y",
   "Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[6]", percentvar}]
```

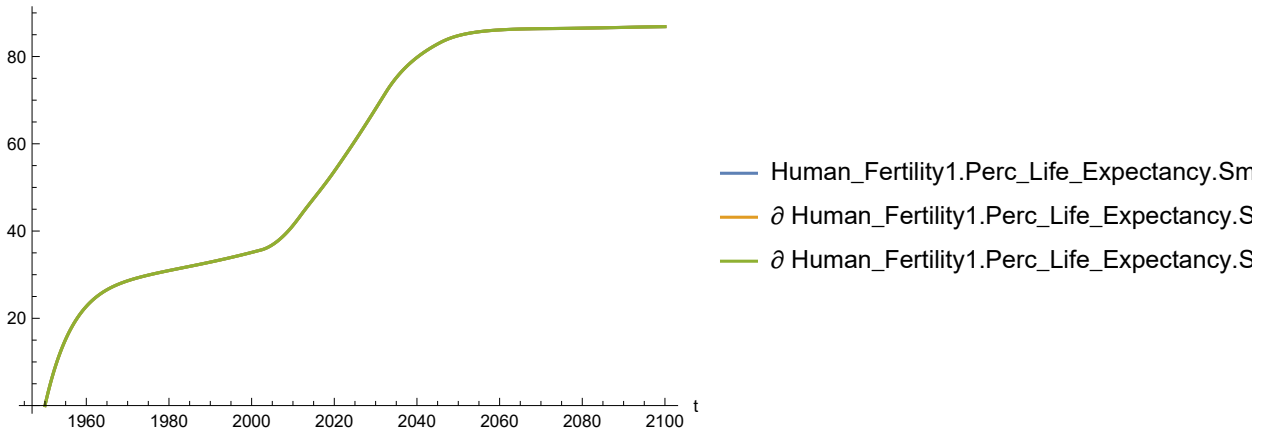
Out[138]=



In[139]:=

```
SystemModelPlot[simsensdata,
  {"Human_Fertility1.Perc_Life_Expectancy.Smooth1.Integrator1.y",
   "Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[7]", percentvar}]
```

Out[139]=

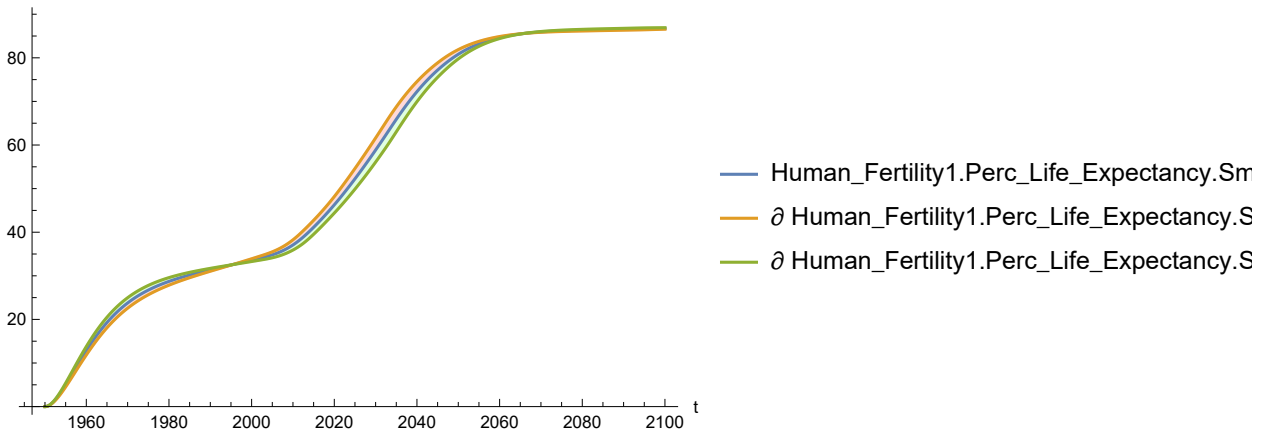


Plot the sensitivity of Human_Fertility1.Perc_Life_Expectancy.Smooth2.Integrator1.y to Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals.

In[140]:=

```
SystemModelPlot[simsensdata,
  {"Human_Fertility1.Perc_Life_Expectancy.Smooth2.Integrator1.y",
   "Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[1]", percentvar}]
```

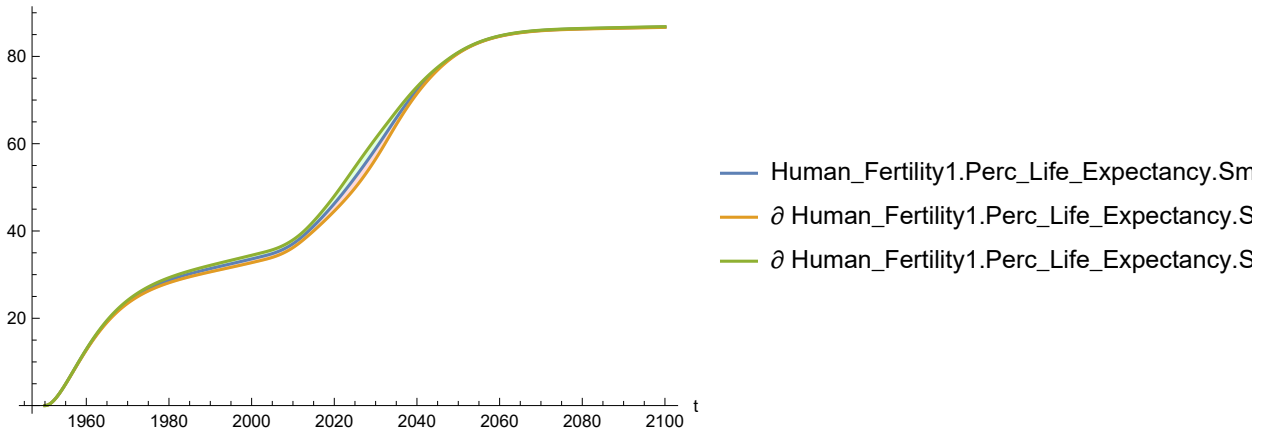
Out[140]=



In[141]:=

```
SystemModelPlot[simsensdata,
  {"Human_Fertility1.Perc_Life_Expectancy.Smooth2.Integrator1.y",
   "Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[2]", percentvar}]
```

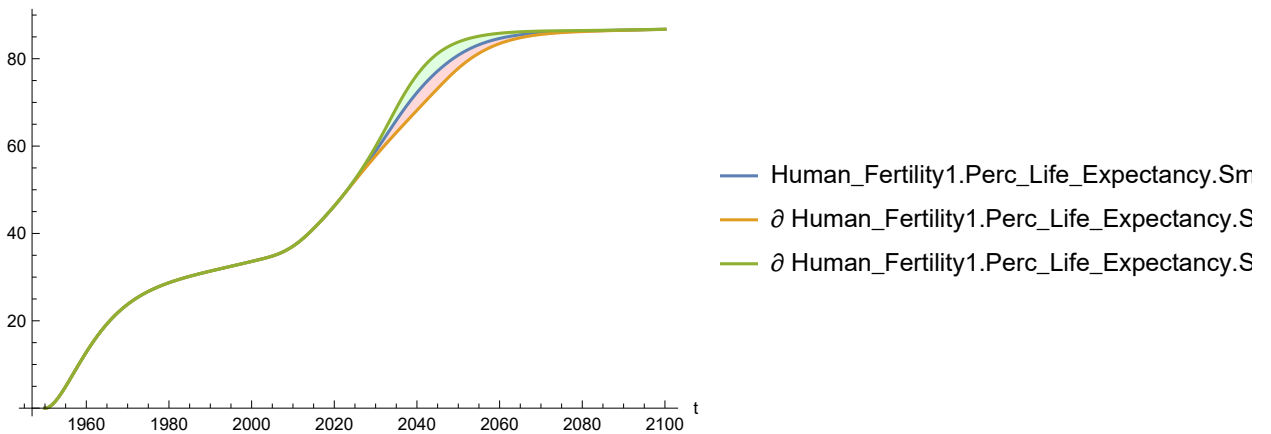
Out[141]=



In[142]:=

```
SystemModelPlot[simsensdata,
  {"Human_Fertility1.Perc_Life_Expectancy.Smooth2.Integrator1.y",
   "Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[3]", percentvar}]
```

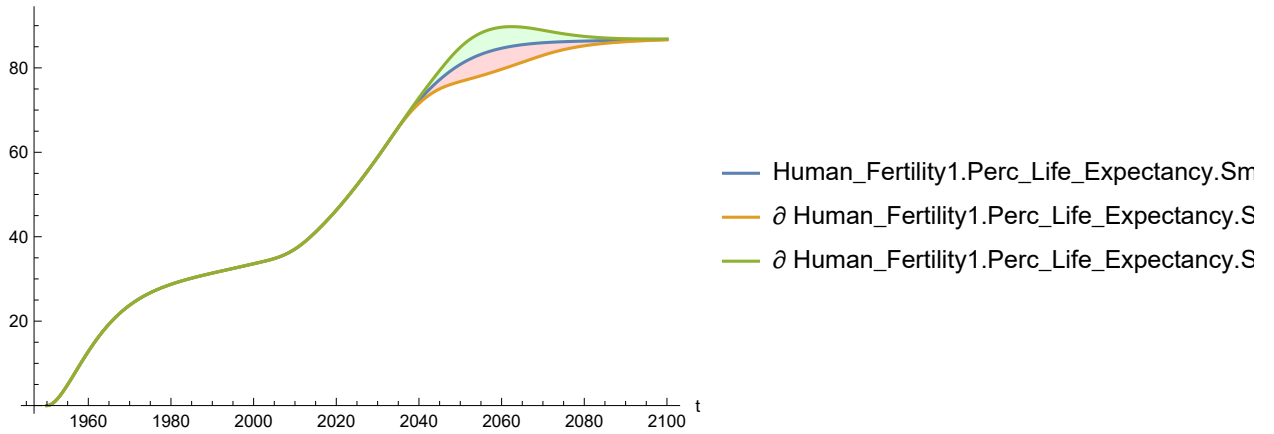
Out[142]=



In[143]:=

```
SystemModelPlot[simsensdata,
  {"Human_Fertility1.Perc_Life_Expectancy.Smooth2.Integrator1.y",
   "Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[4]", percentvar}]
```

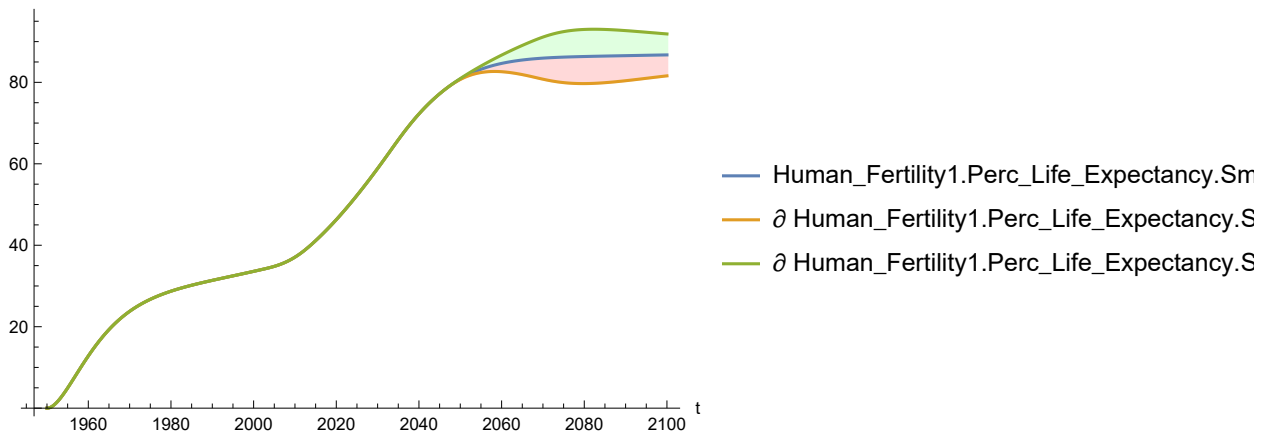
Out[143]:=



In[144]:=

```
SystemModelPlot[simsensdata,
  {"Human_Fertility1.Perc_Life_Expectancy.Smooth2.Integrator1.y",
   "Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[5]", percentvar}]
```

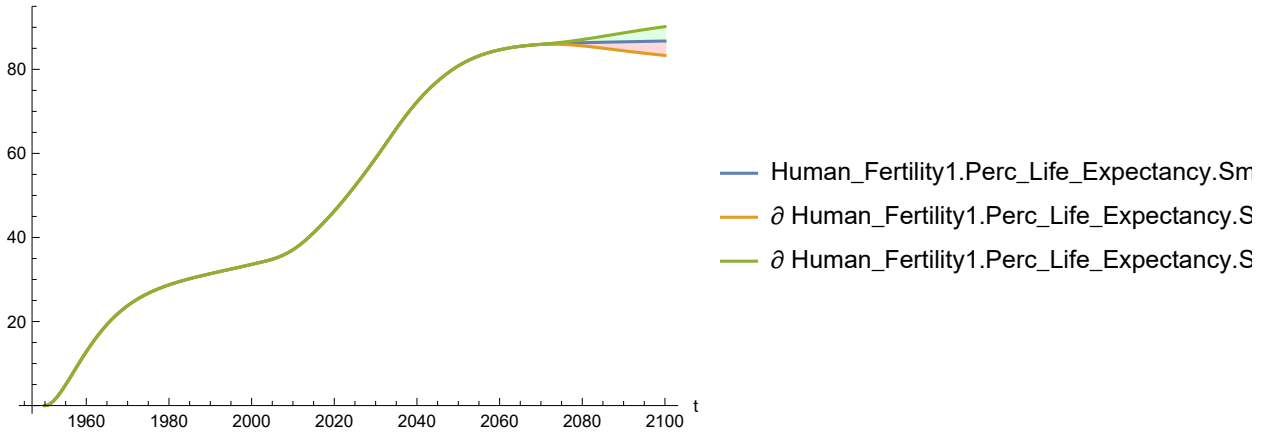
Out[144]:=



In[145]:=

```
SystemModelPlot[simsensdata,
  {"Human_Fertility1.Perc_Life_Expectancy.Smooth2.Integrator1.y",
   "Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[6]", percentvar}]
```

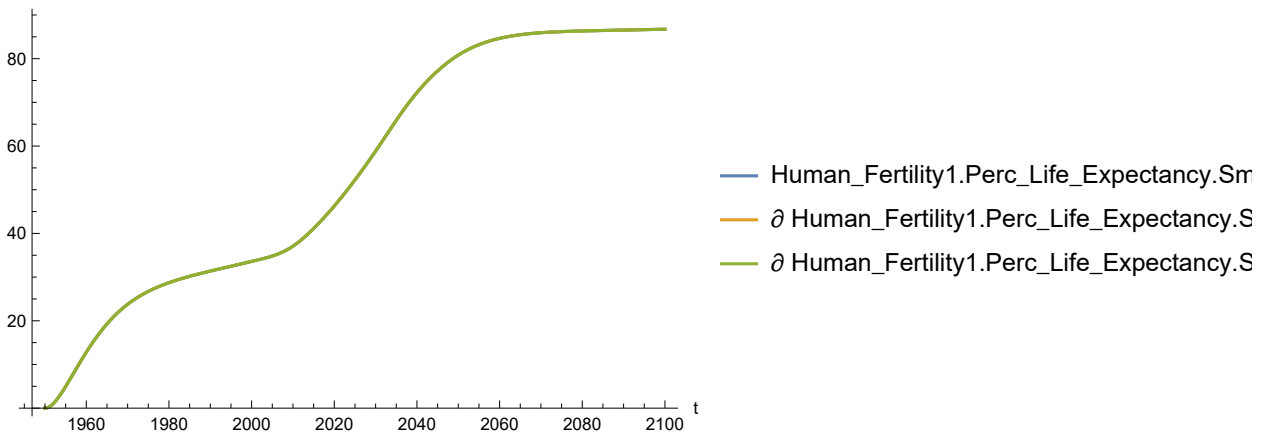
Out[145]=



In[146]:=

```
SystemModelPlot[simsensdata,
  {"Human_Fertility1.Perc_Life_Expectancy.Smooth2.Integrator1.y",
   "Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[7]", percentvar}]
```

Out[146]=

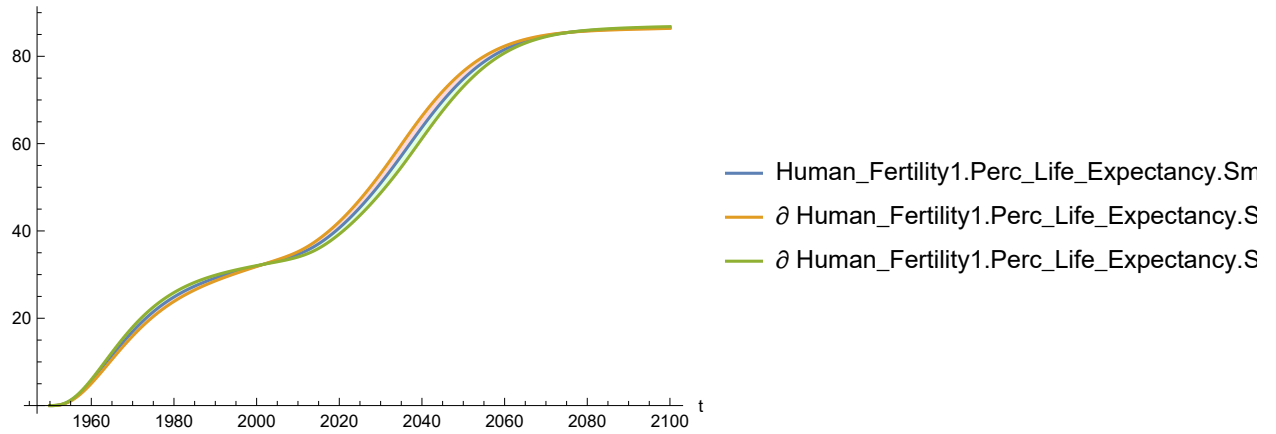


Plot the sensitivity of `Human_Fertility1.Perc_Life_Expectancy.Smooth3.Integrator1.y` to `Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals`.

In[147]:=

```
SystemModelPlot[simsensdata,
  {"Human_Fertility1.Perc_Life_Expectancy.Smooth3.Integrator1.y",
   "Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[1]", percentvar}]
```

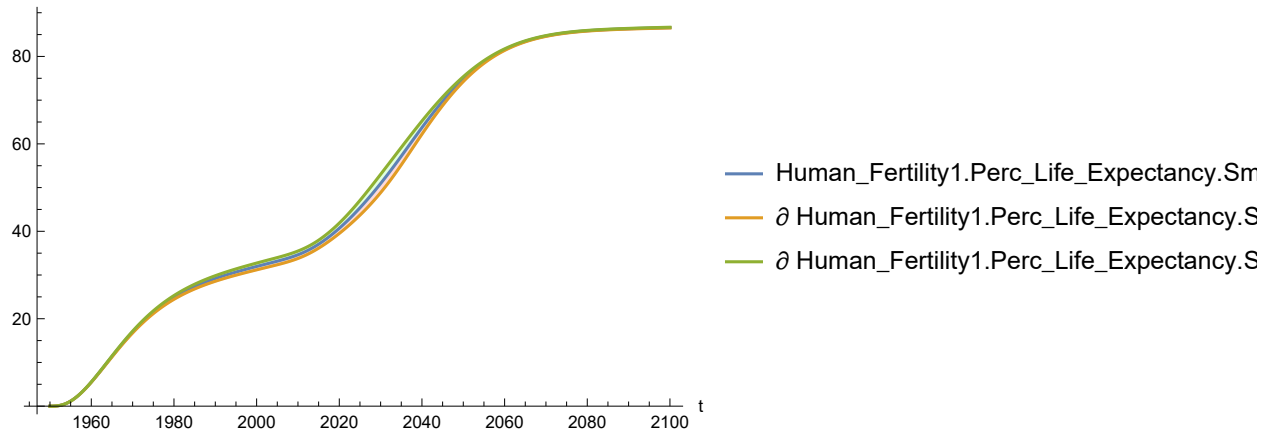
Out[147]=



In[148]:=

```
SystemModelPlot[simsensdata,
  {"Human_Fertility1.Perc_Life_Expectancy.Smooth3.Integrator1.y",
   "Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[2]", percentvar}]
```

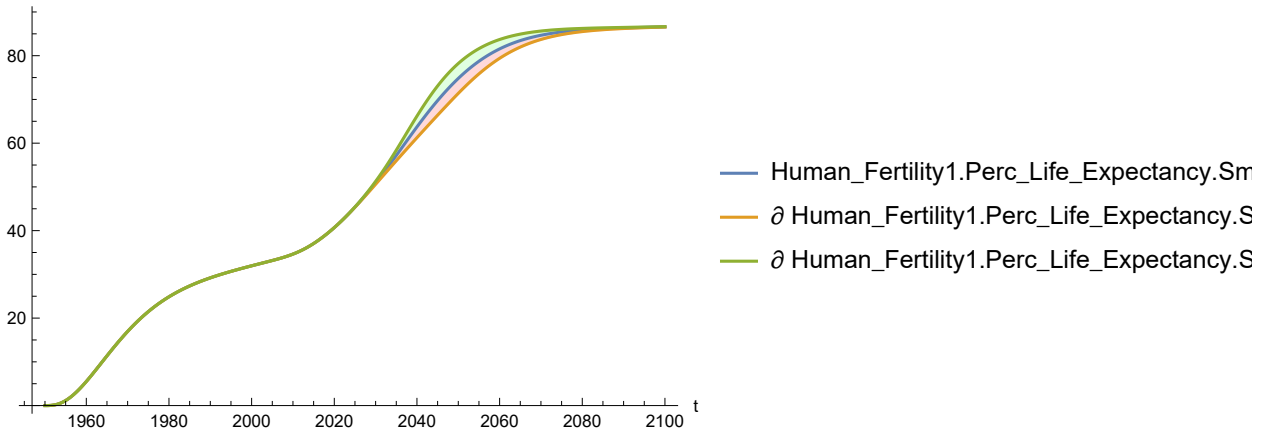
Out[148]=



In[149]:=

```
SystemModelPlot[simsensdata,
  {"Human_Fertility1.Perc_Life_Expectancy.Smooth3.Integrator1.y",
   "Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[3]", percentvar}]
```

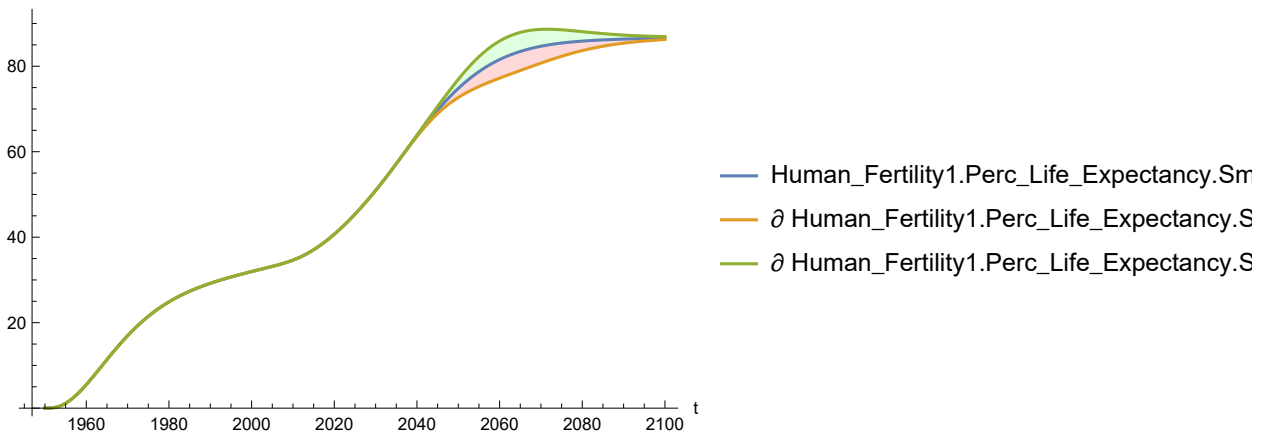
Out[149]=



In[150]:=

```
SystemModelPlot[simsensdata,
  {"Human_Fertility1.Perc_Life_Expectancy.Smooth3.Integrator1.y",
   "Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[4]", percentvar}]
```

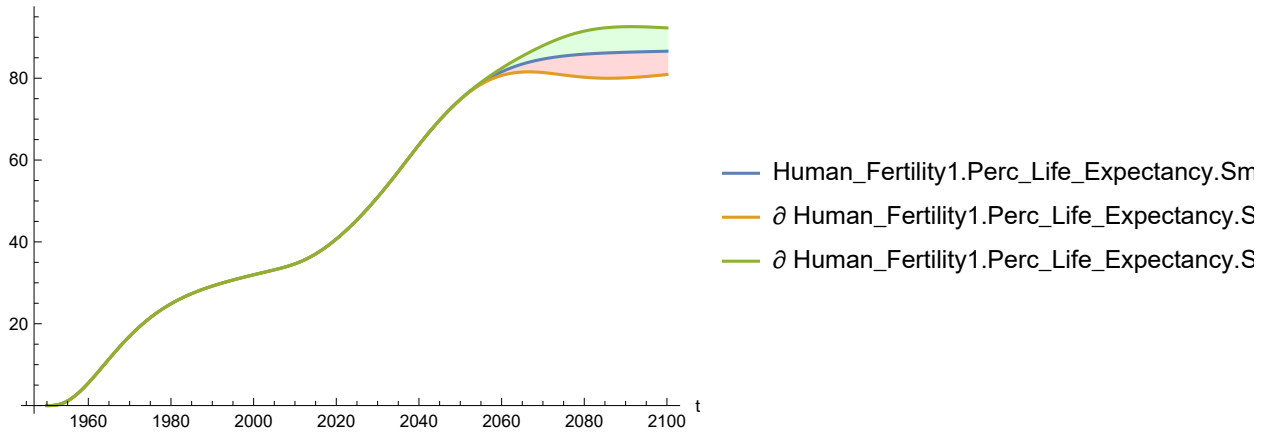
Out[150]=



In[151]:=

```
SystemModelPlot[simsensdata,
  {"Human_Fertility1.Perc_Life_Expectancy.Smooth3.Integrator1.y",
   "Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[5]", percentvar}]
```

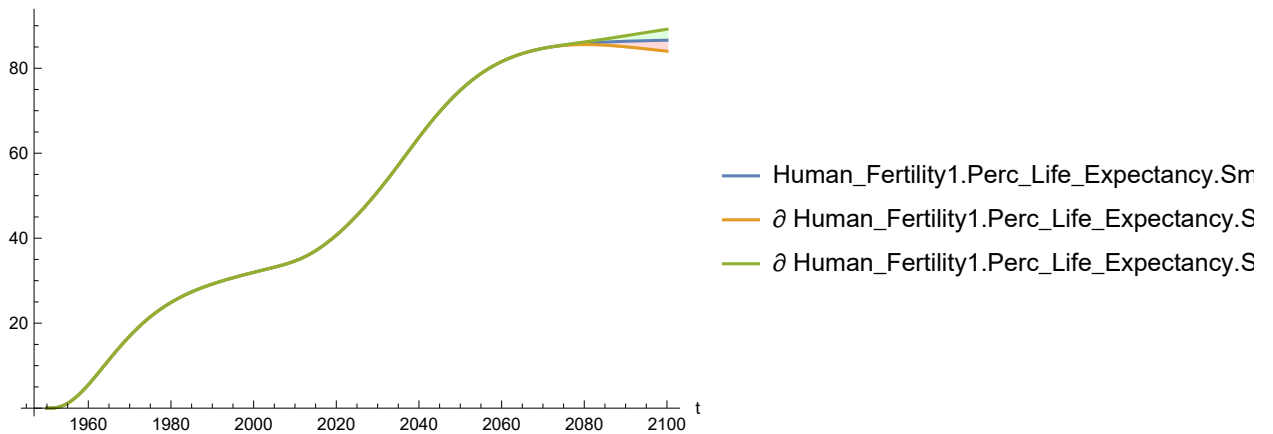
Out[151]=



In[152]:=

```
SystemModelPlot[simsensdata,
  {"Human_Fertility1.Perc_Life_Expectancy.Smooth3.Integrator1.y",
   "Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[6]", percentvar}]
```

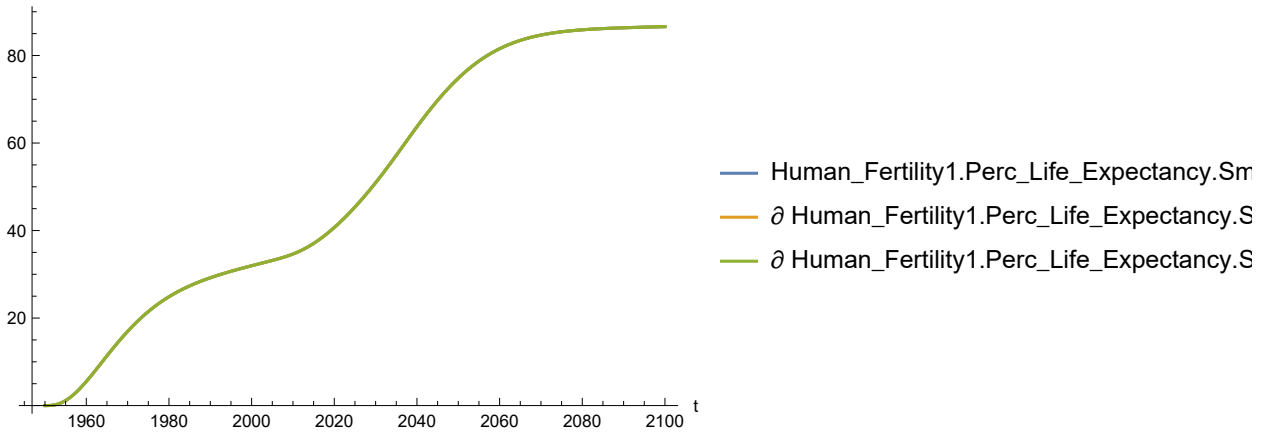
Out[152]=



In[153]:=

```
SystemModelPlot[simsensdata,
  {"Human_Fertility1.Perc_Life_Expectancy.Smooth3.Integrator1.y",
   "Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[7]", percentvar}]
```

Out[153]=

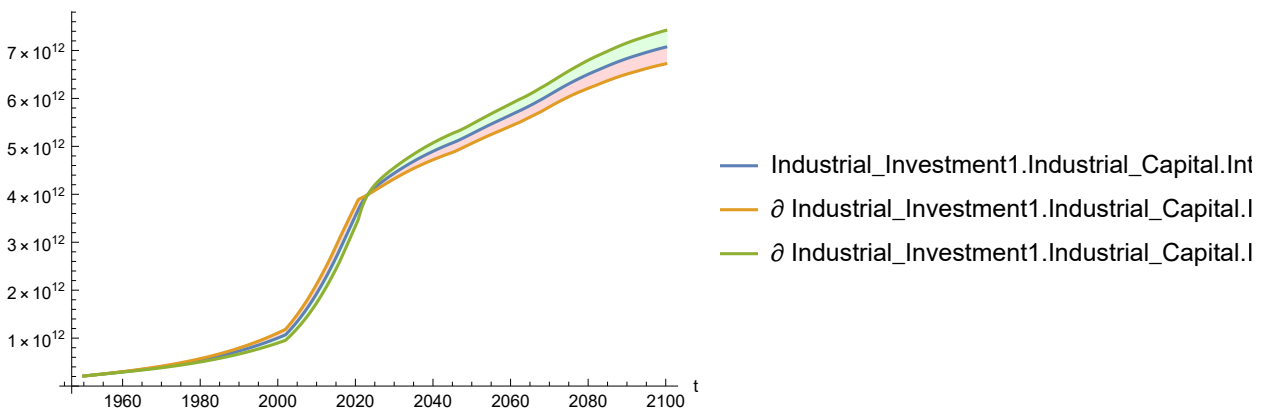


Plot the sensitivity of Industrial_Investment1.Industrial_Capital.Integrator1.y to Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals.

In[154]:=

```
SystemModelPlot[simsensdata, {"Industrial_Investment1.Industrial_Capital.Integrator1.y",
  "Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[1]", percentvar}]
```

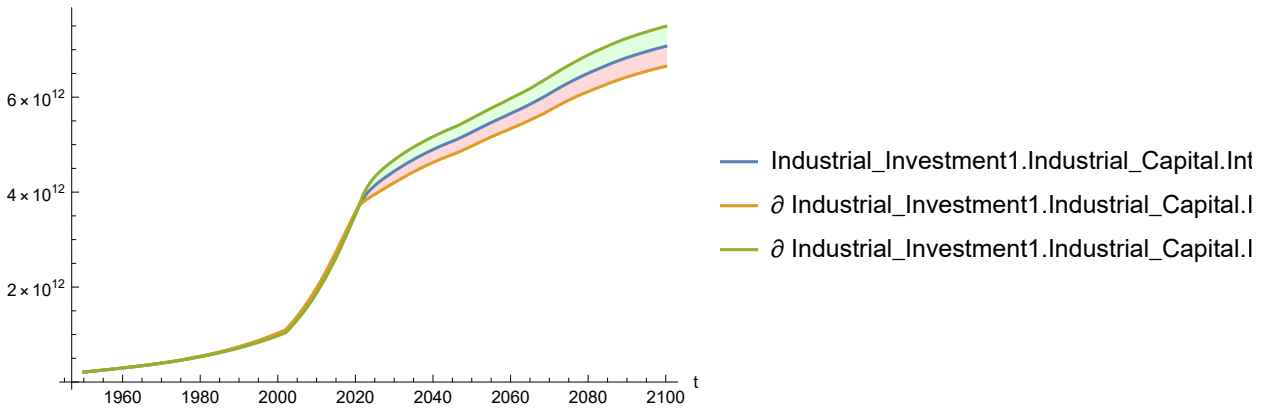
Out[154]=



In[155]:=

```
SystemModelPlot[simsensdata, {"Industrial_Investment1.Industrial_Capital.Integrator1.y",
"Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[2]", percentvar}]
```

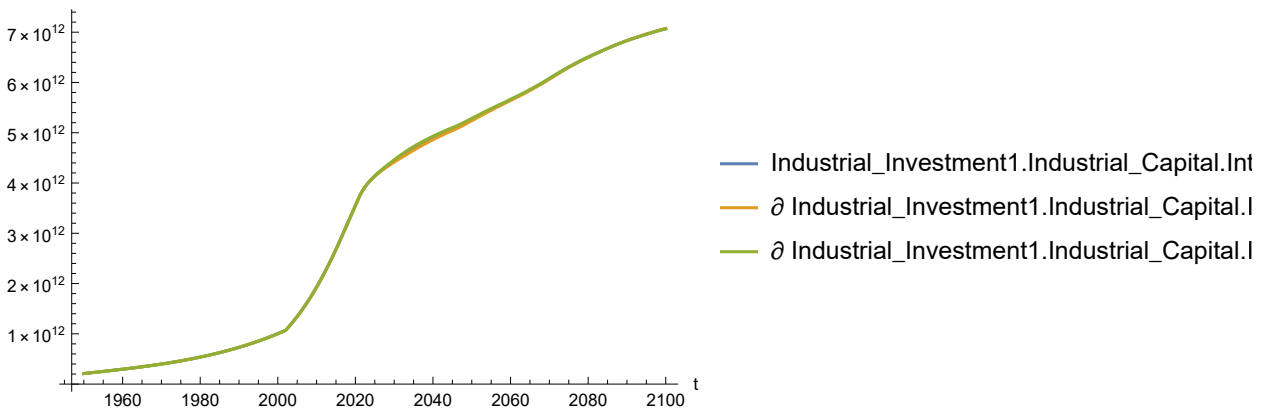
Out[155]:=



In[156]:=

```
SystemModelPlot[simsensdata, {"Industrial_Investment1.Industrial_Capital.Integrator1.y",
"Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[3]", percentvar}]
```

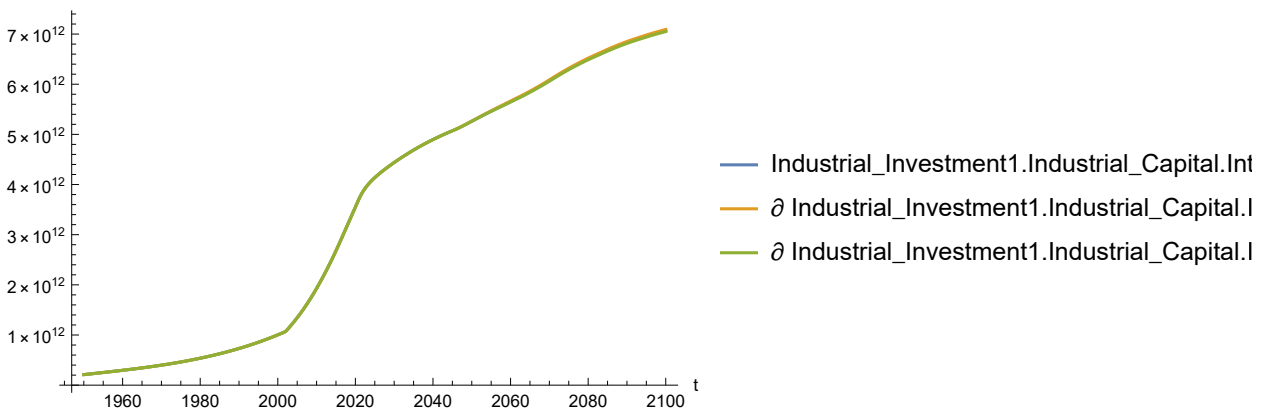
Out[156]:=



In[157]:=

```
SystemModelPlot[simsensdata, {"Industrial_Investment1.Industrial_Capital.Integrator1.y",
"Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[4]", percentvar}]
```

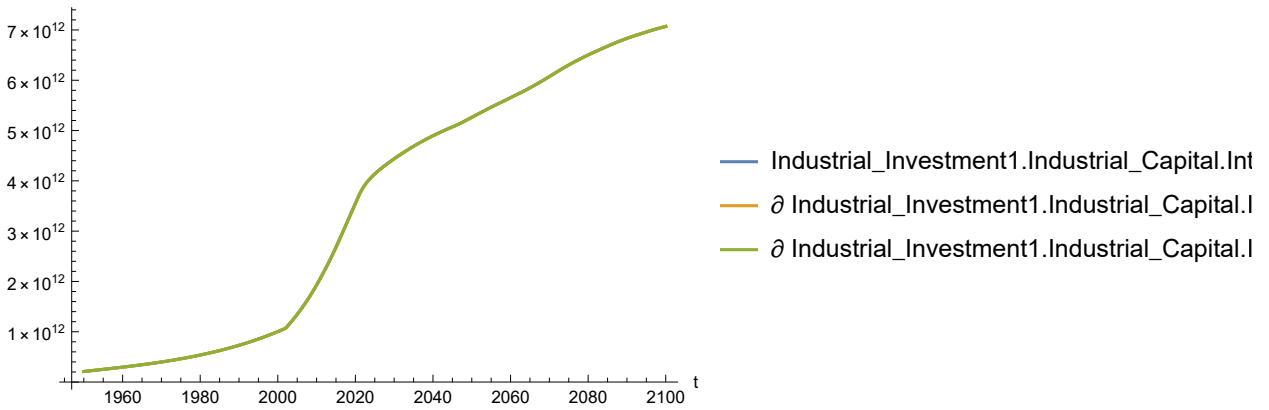
Out[157]:=



In[158]:=

```
SystemModelPlot[simsensdata, {"Industrial_Investment1.Industrial_Capital.Integrator1.y",
"Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[5]", percentvar}]
```

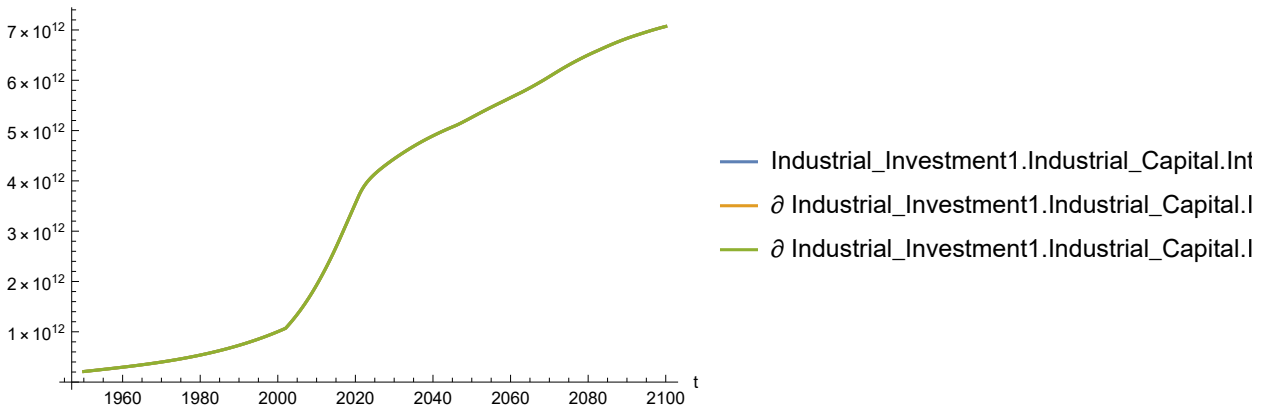
Out[158]=



In[159]:=

```
SystemModelPlot[simsensdata, {"Industrial_Investment1.Industrial_Capital.Integrator1.y",
"Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[6]", percentvar}]
```

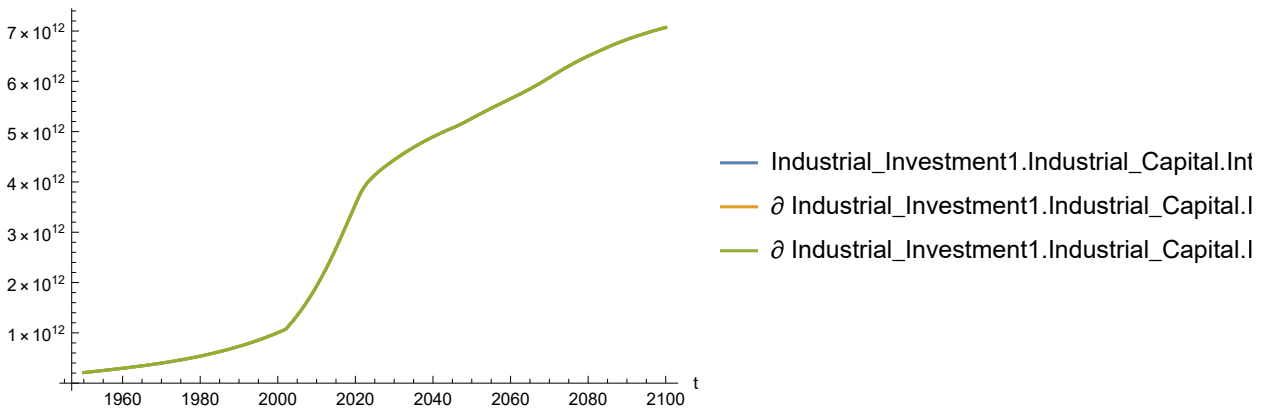
Out[159]=



In[160]:=

```
SystemModelPlot[simsensdata, {"Industrial_Investment1.Industrial_Capital.Integrator1.y",
"Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[7]", percentvar}]
```

Out[160]=

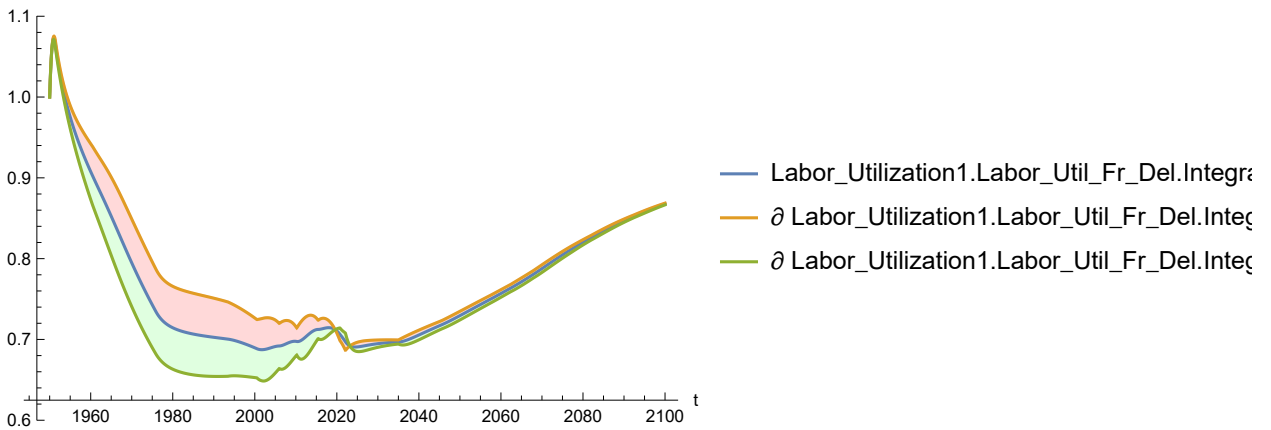


Plot the sensitivity of Labor_Utilization1.Labor_Util_Fr_Del.Integrator1.y to Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals.

In[161]:=

```
SystemModelPlot[simsensdata, {"Labor_Utilization1.Labor_Util_Fr_Del.Integrator1.y",
    "Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[1]", percentvar}]
```

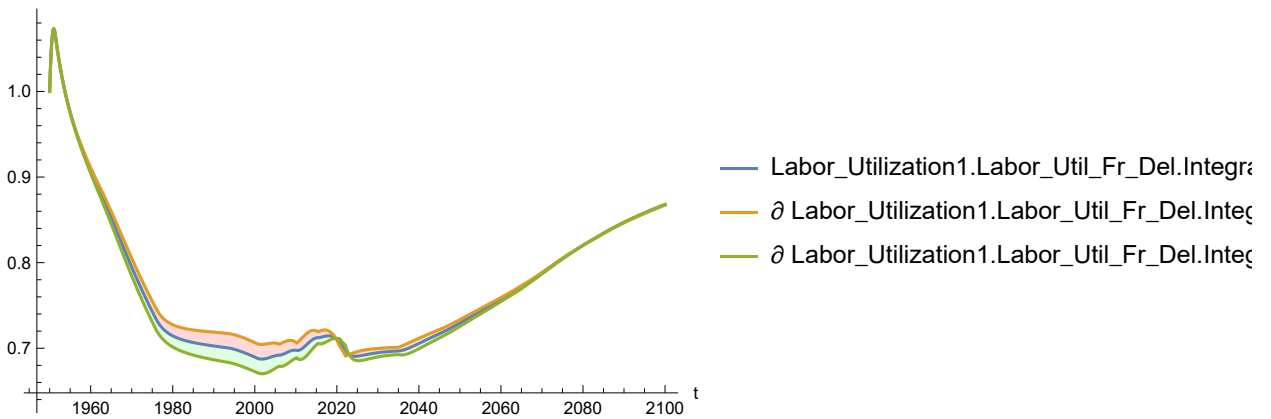
Out[161]=



In[162]:=

```
SystemModelPlot[simsensdata, {"Labor_Utilization1.Labor_Util_Fr_Del.Integrator1.y",
    "Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[2]", percentvar}]
```

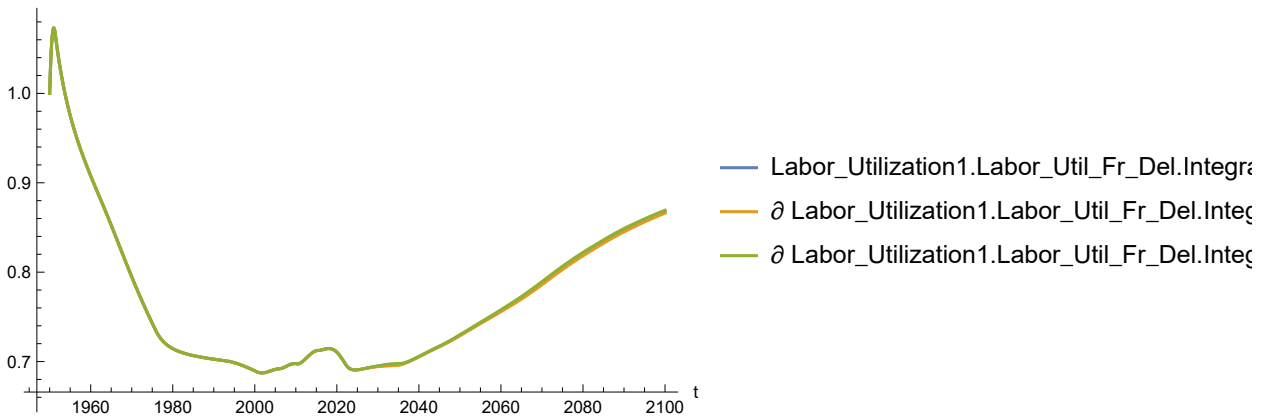
Out[162]=



In[163]:=

```
SystemModelPlot[simsensdata, {"Labor_Utilization1.Labor_Util_Fr_Del.Integrator1.y",
"Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[3]", percentvar}]
```

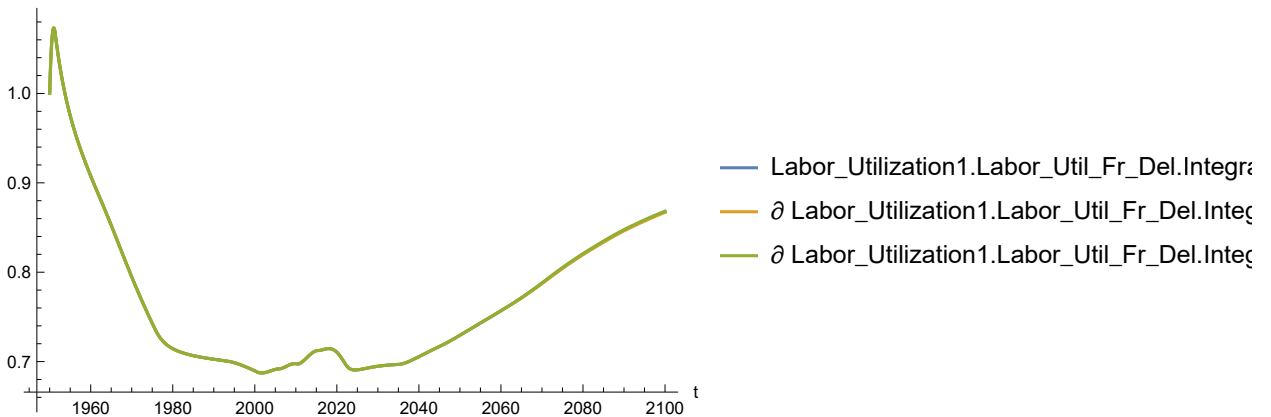
Out[163]=



In[164]:=

```
SystemModelPlot[simsensdata, {"Labor_Utilization1.Labor_Util_Fr_Del.Integrator1.y",
"Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[4]", percentvar}]
```

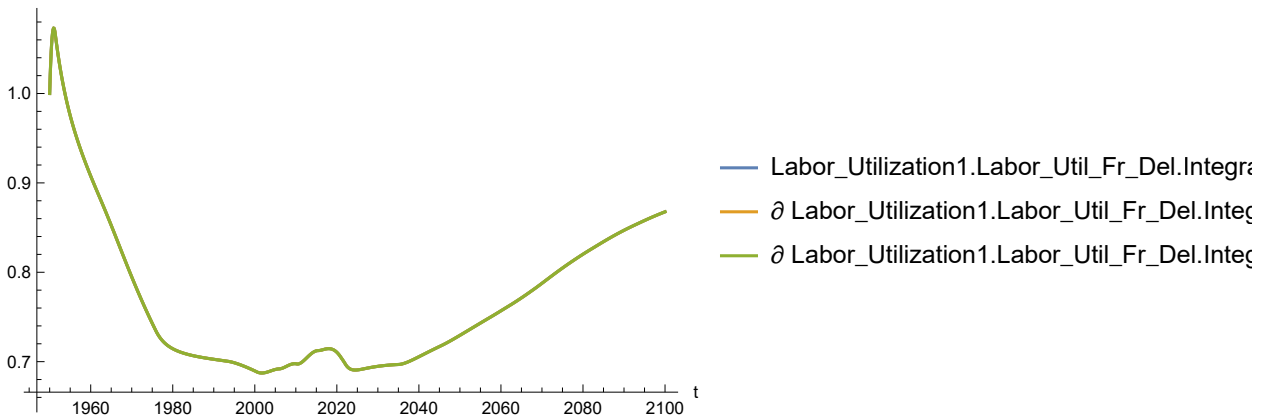
Out[164]=



In[165]:=

```
SystemModelPlot[simsensdata, {"Labor_Utilization1.Labor_Util_Fr_Del.Integrator1.y",
"Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[5]", percentvar}]
```

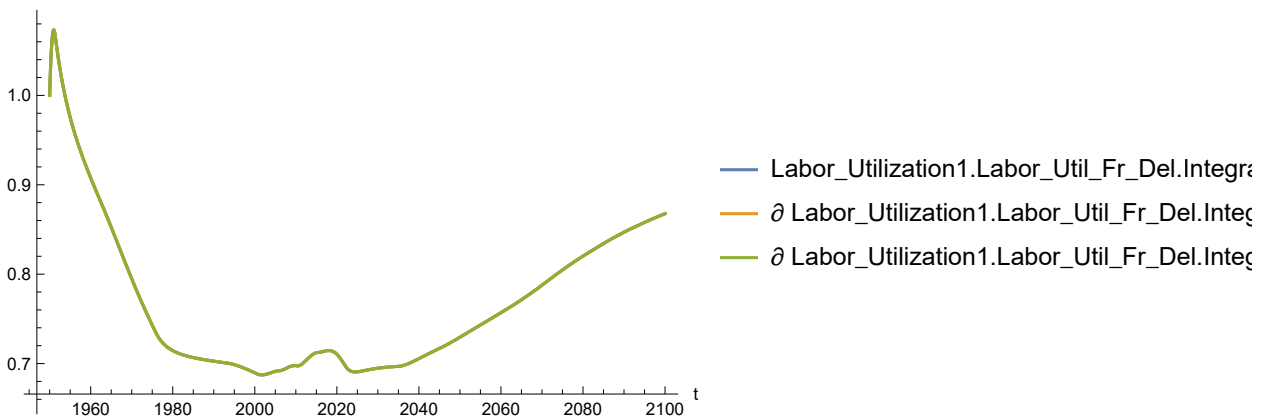
Out[165]=



In[166]:=

```
SystemModelPlot[simsensdata, {"Labor_Utilization1.Labor_Util_Fr_Del.Integrator1.y",
"Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[6]", percentvar}]
```

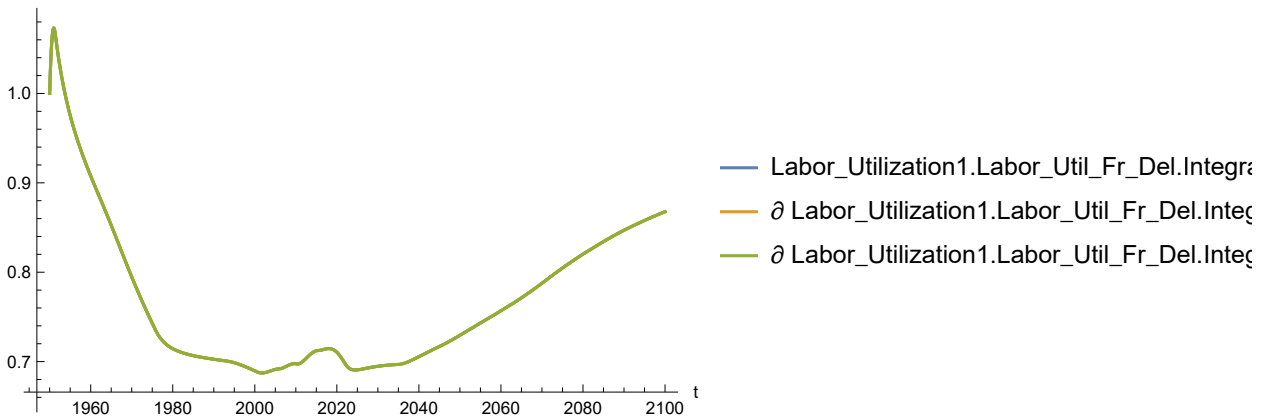
Out[166]=



In[167]:=

```
SystemModelPlot[simsensdata, {"Labor_Utilization1.Labor_Util_Fr_Del.Integrator1.y",
"Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[7]", percentvar}]
```

Out[167]=

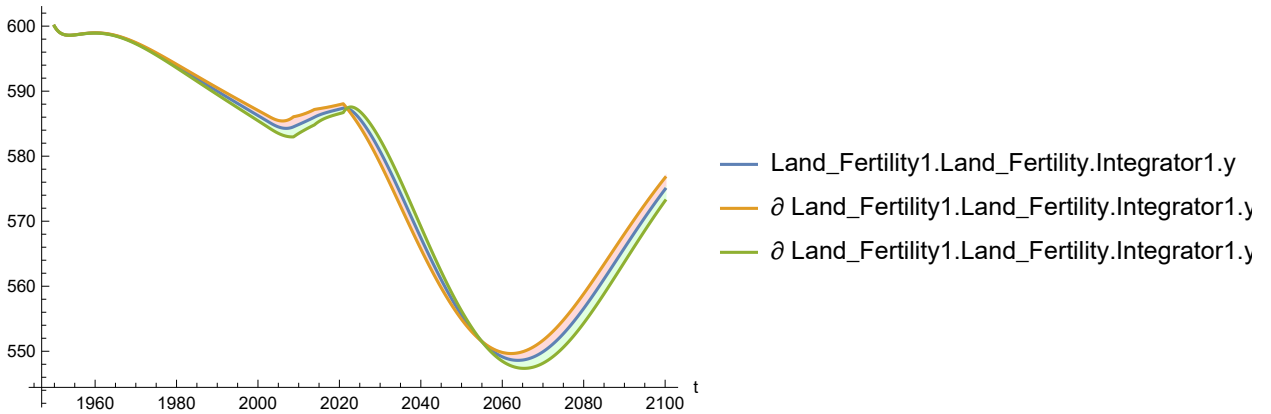


Plot the sensitivity of Land_Fertility1.Land_Fertility.Integrator1.y to Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals.

In[168]:=

```
SystemModelPlot[simsensdata, {"Land_Fertility1.Land_Fertility.Integrator1.y",
    "Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[1]", percentvar}]
```

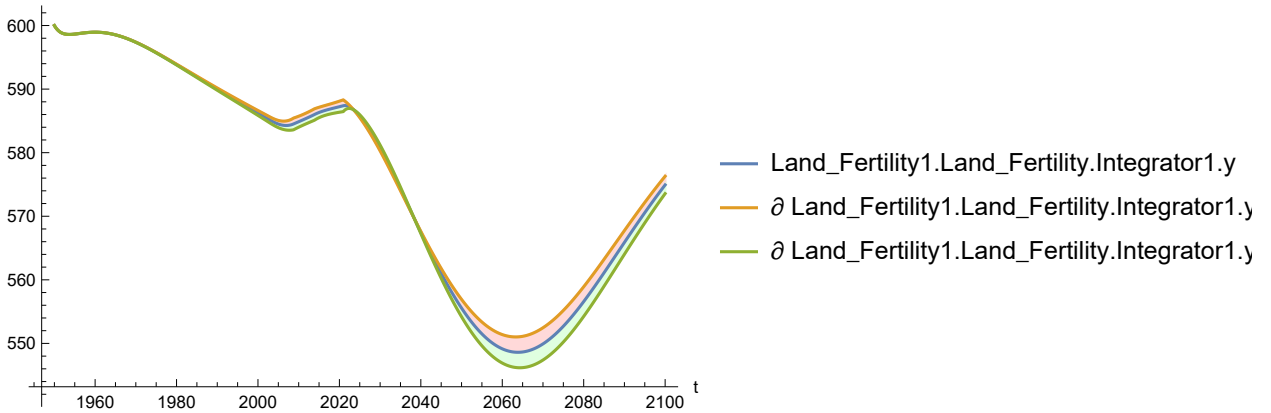
Out[168]=



In[169]:=

```
SystemModelPlot[simsensdata, {"Land_Fertility1.Land_Fertility.Integrator1.y",
    "Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[2]", percentvar}]
```

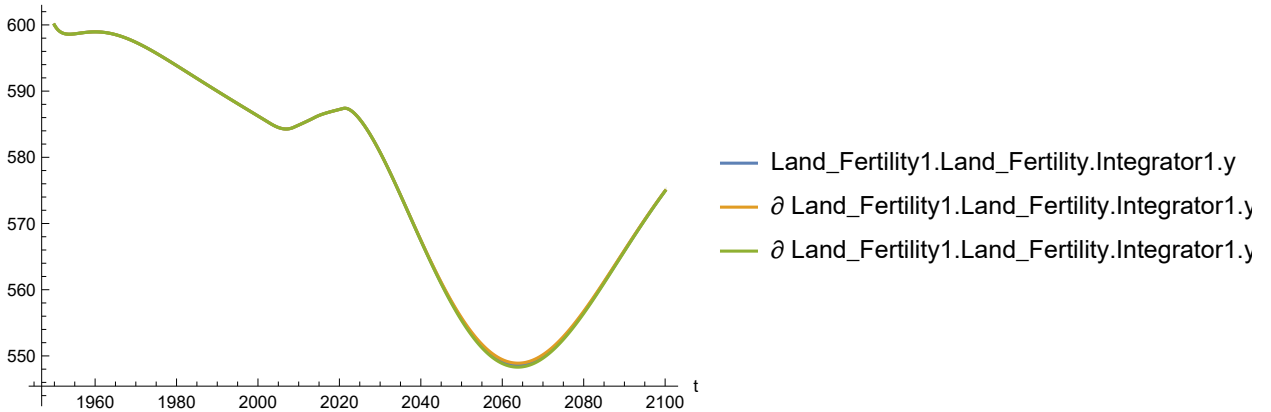
Out[169]=



In[170]:=

```
SystemModelPlot[simsensdata, {"Land_Fertility1.Land_Fertility.Integrator1.y",
    "Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[3]", percentvar}]
```

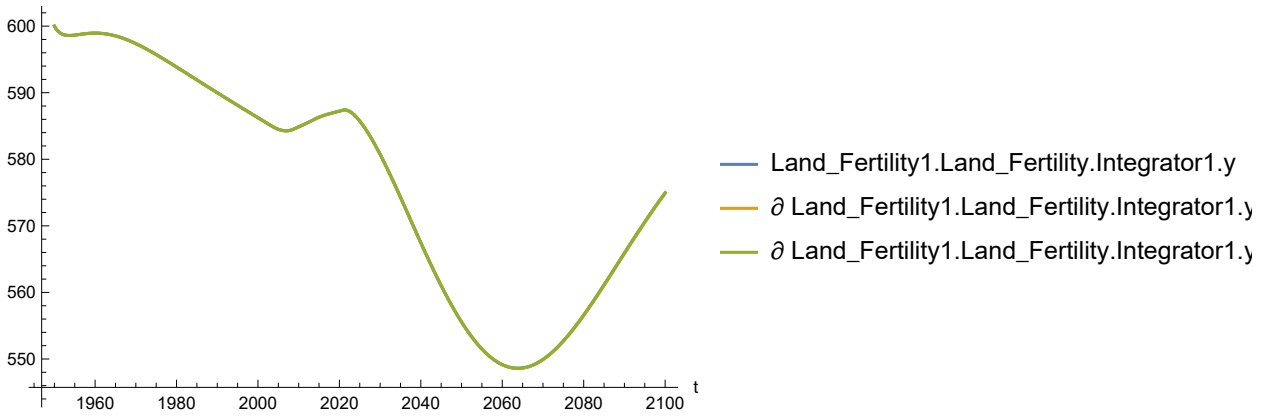
Out[170]=



In[171]:=

```
SystemModelPlot[simsensdata, {"Land_Fertility1.Land_Fertility.Integrator1.y",
    "Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[4]", percentvar}]
```

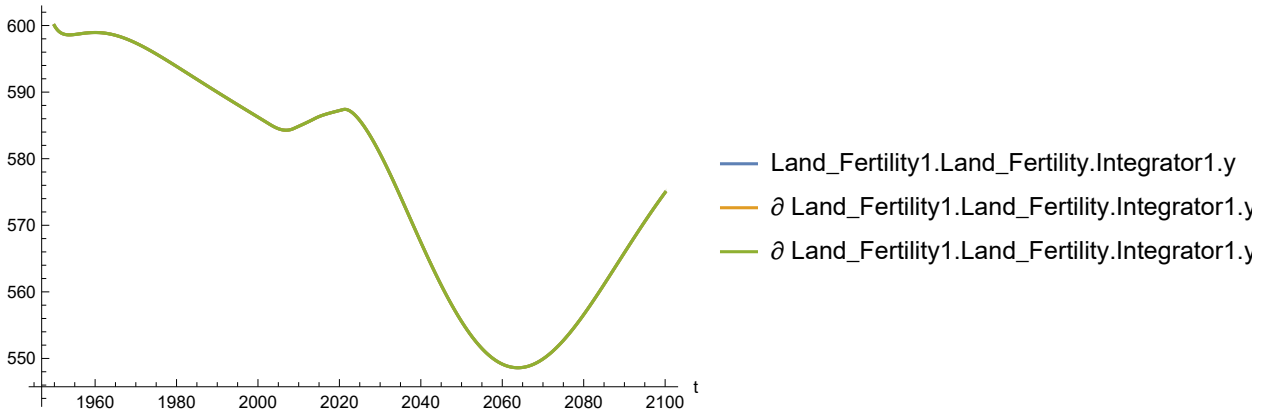
Out[171]=



In[172]:=

```
SystemModelPlot[simsensdata, {"Land_Fertility1.Land_Fertility.Integrator1.y",
    "Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[5]", percentvar}]
```

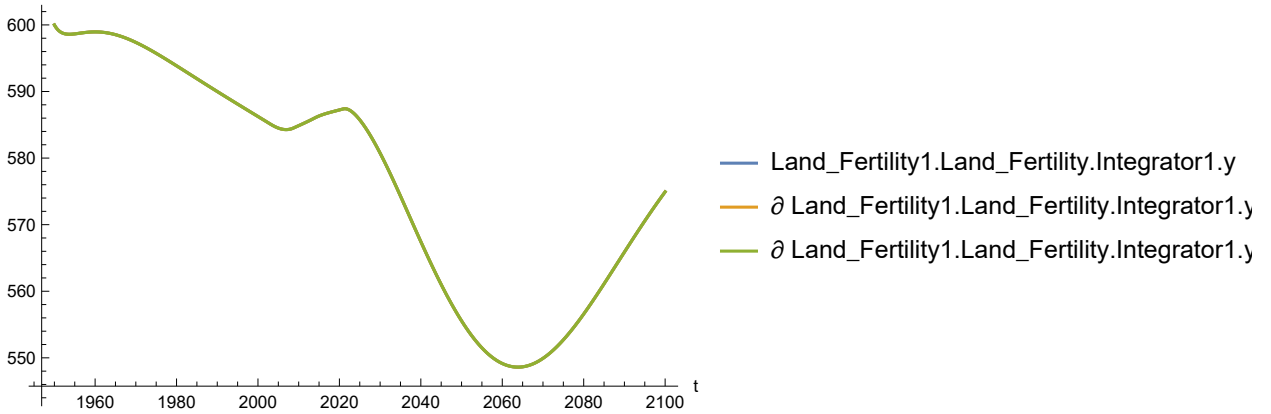
Out[172]=



In[173]:=

```
SystemModelPlot[simsensdata, {"Land_Fertility1.Land_Fertility.Integrator1.y",
    "Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[6]", percentvar}]
```

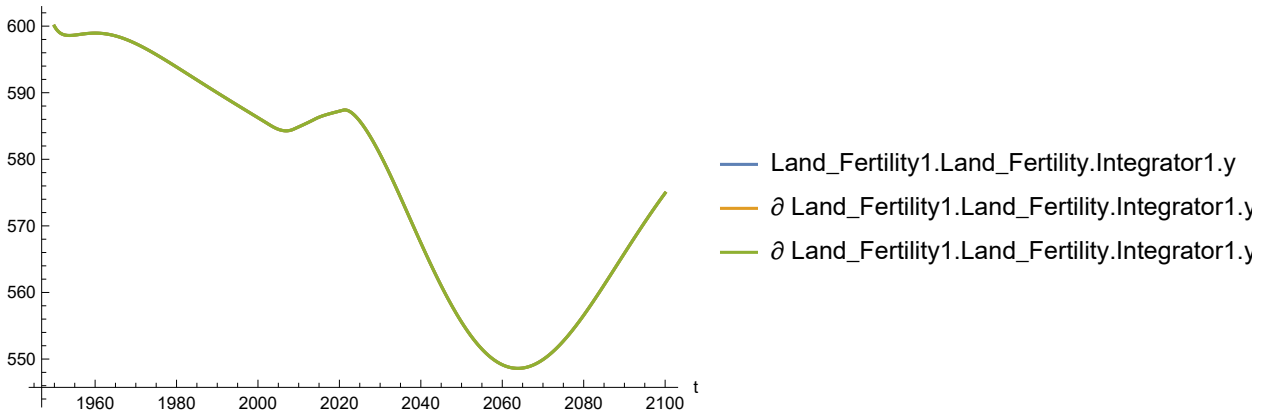
Out[173]=



In[174]:=

```
SystemModelPlot[simsensdata, {"Land_Fertility1.Land_Fertility.Integrator1.y",
"Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[7]", percentvar}]
```

Out[174]=

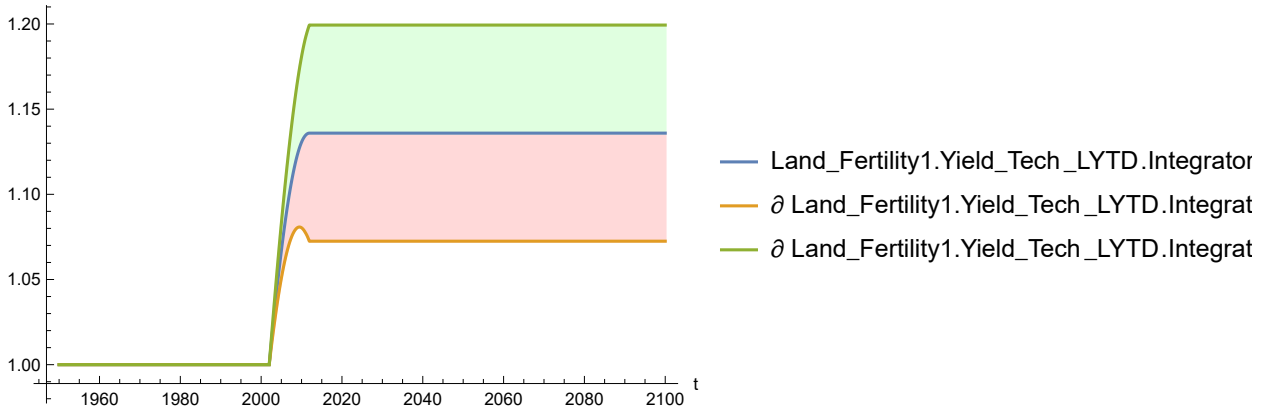


Plot the sensitivity of Land_Fertility1.Yield_Tech_LYTD.Integrator1.y to Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals.

In[175]:=

```
SystemModelPlot[simsensdata, {"Land_Fertility1.Yield_Tech_LYTD.Integrator1.y",
"Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[1]", percentvar}]
```

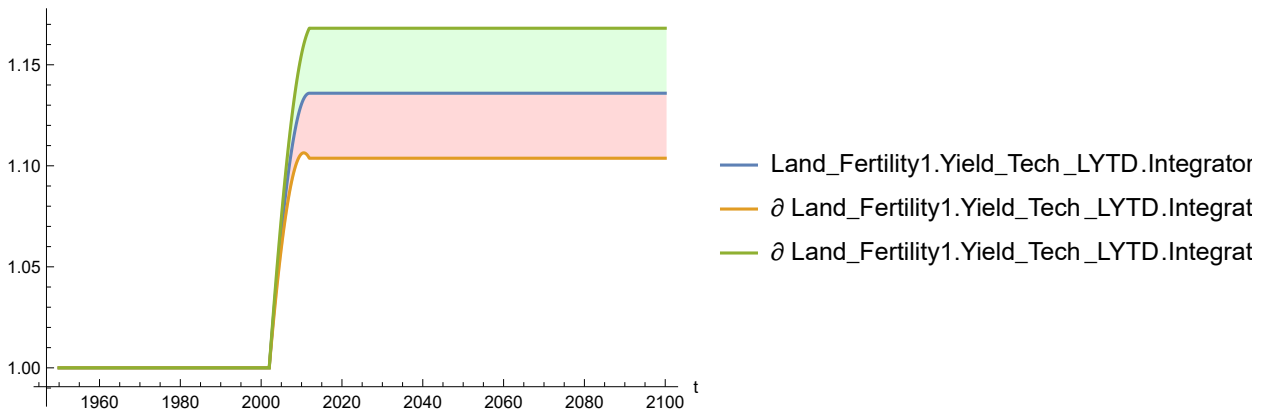
Out[175]=



In[176]:=

```
SystemModelPlot[simsensdata, {"Land_Fertility1.Yield_Tech_LYTD.Integrator1.y",
"Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[2]", percentvar}]
```

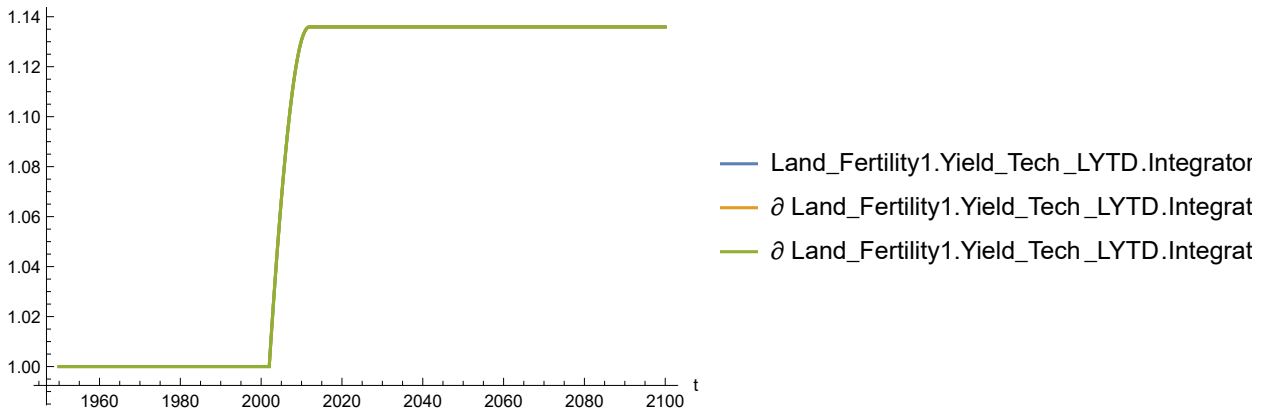
Out[176]=



In[177]:=

```
SystemModelPlot[simsensdata, {"Land_Fertility1.Yield_Tech_LYTD.Integrator1.y",
"Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[3]", percentvar}]
```

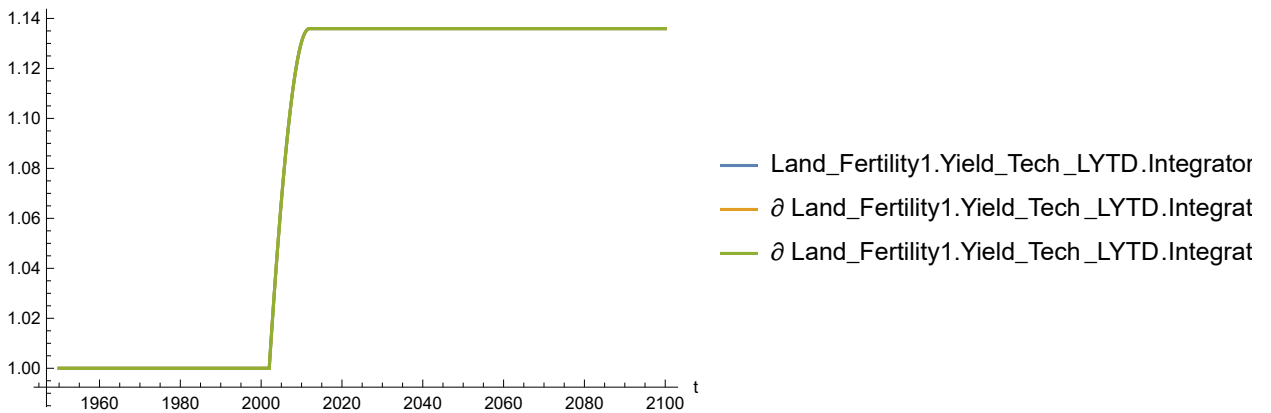
Out[177]=



In[178]:=

```
SystemModelPlot[simsensdata, {"Land_Fertility1.Yield_Tech_LYTD.Integrator1.y",
"Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[4]", percentvar}]
```

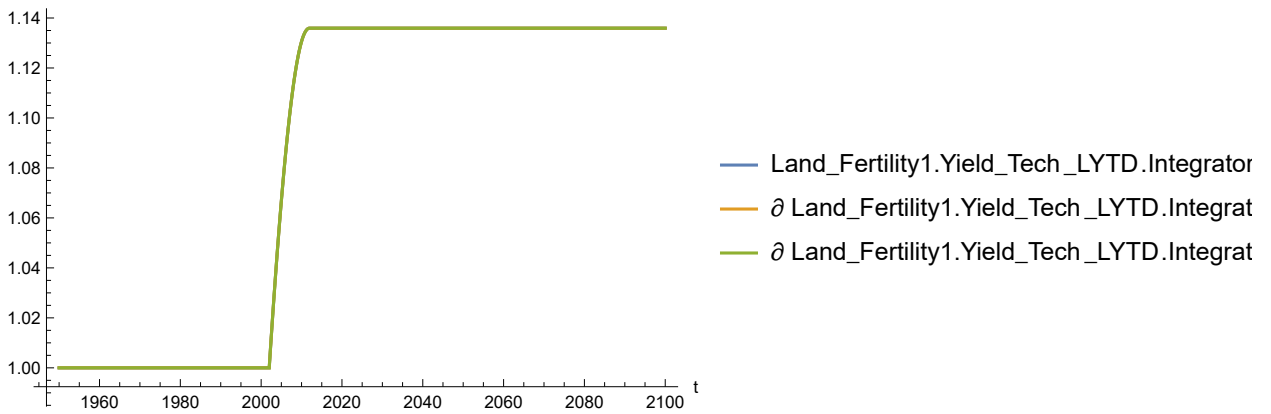
Out[178]=



In[179]:=

```
SystemModelPlot[simsensdata, {"Land_Fertility1.Yield_Tech_LYTD.Integrator1.y",
"Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[5]", percentvar}]
```

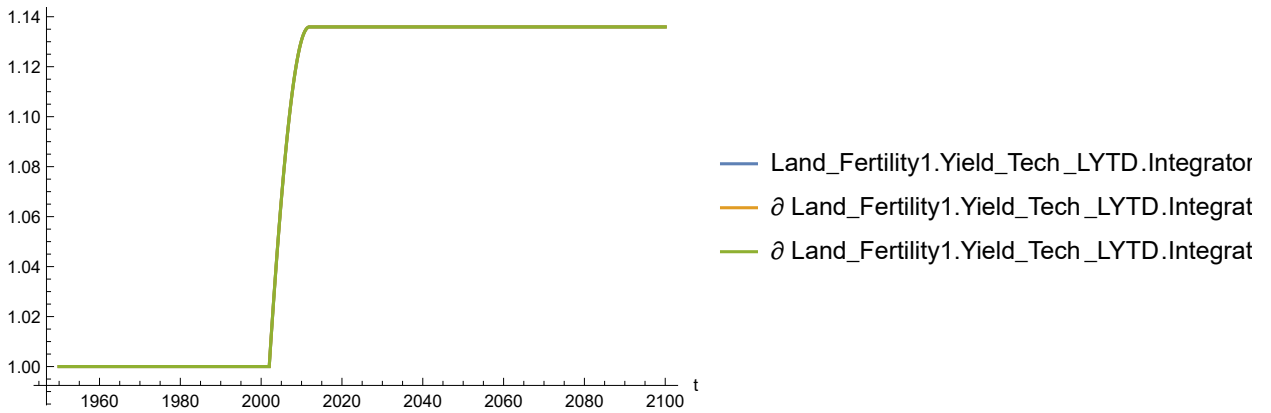
Out[179]=



In[180]:=

```
SystemModelPlot[simsensdata, {"Land_Fertility1.Yield_Tech_LYTD.Integrator1.y",
"Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[6]", percentvar}]
```

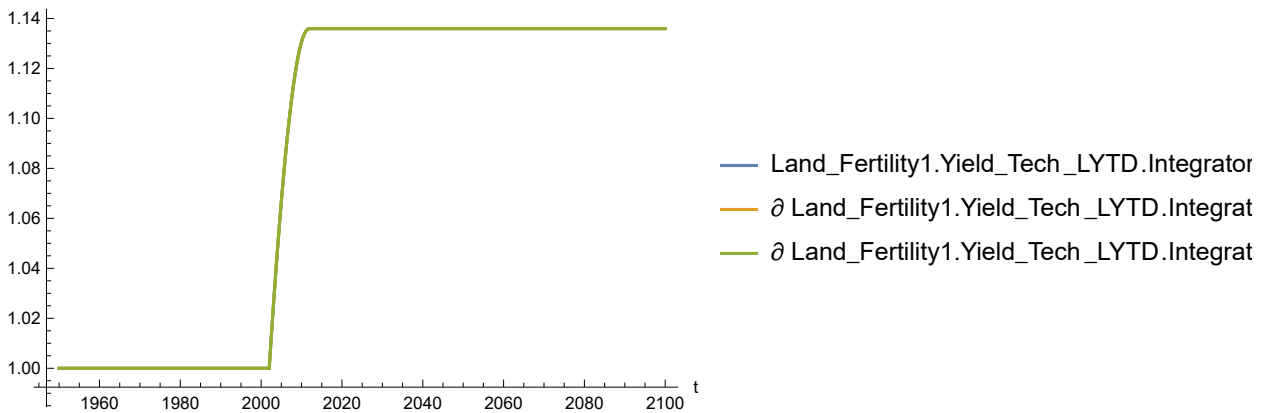
Out[180]=



In[181]:=

```
SystemModelPlot[simsensdata, {"Land_Fertility1.Yield_Tech_LYTD.Integrator1.y",
"Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[7]", percentvar}]
```

Out[181]=

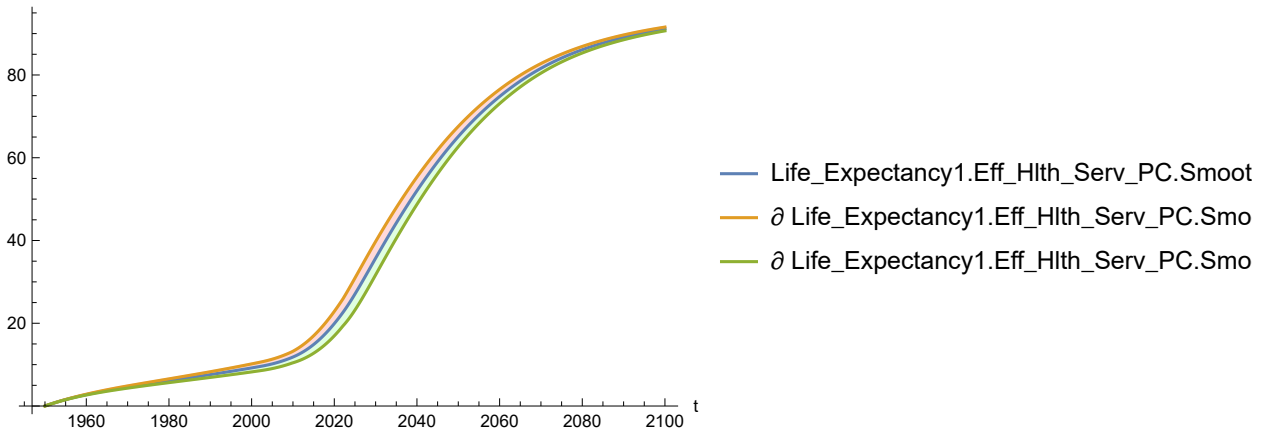


Plot the sensitivity of Life_Expectancy1.Eff_Hlth_Serv_PC.Smooth_of_Input.Integrator1.y to Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals.

In[182]:=

```
SystemModelPlot[simsensdata,
  {"Life_Expectancy1.Eff_Hlth_Serv_PC.Smooth_of_Input.Integrator1.y",
   "Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[1]", percentvar}]
```

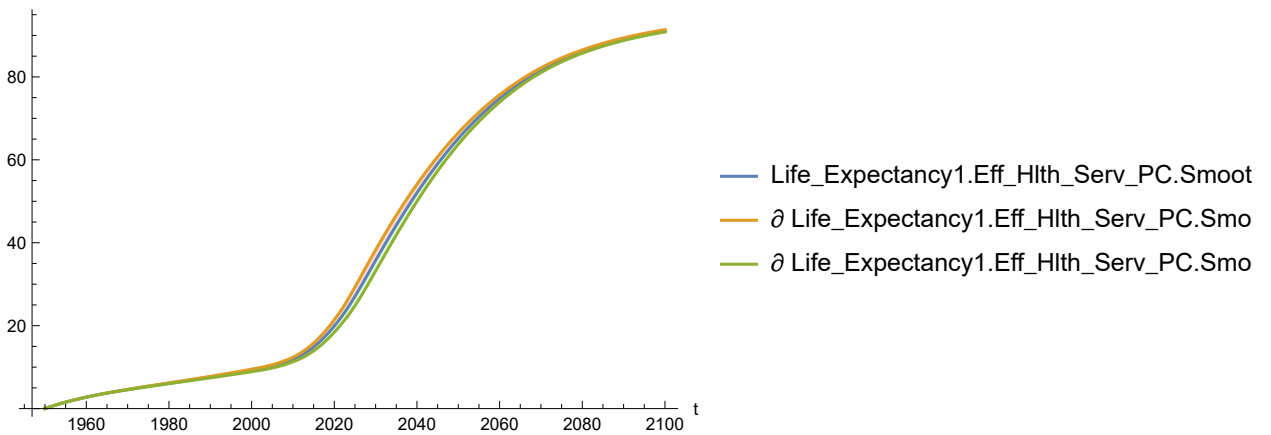
Out[182]=



In[183]:=

```
SystemModelPlot[simsensdata,
  {"Life_Expectancy1.Eff_Hlth_Serv_PC.Smooth_of_Input.Integrator1.y",
   "Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[2]", percentvar}]
```

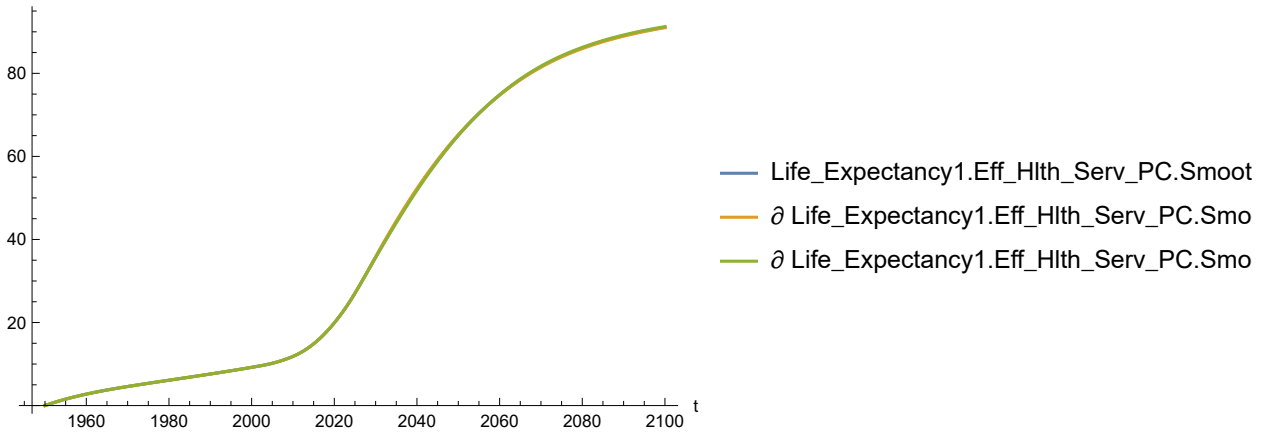
Out[183]=



In[184]:=

```
SystemModelPlot[simsensdata,
  {"Life_Expectancy1.Eff_Hlth_Serv_PC.Smooth_of_Input.Integrator1.y",
   "Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[3]", percentvar}]
```

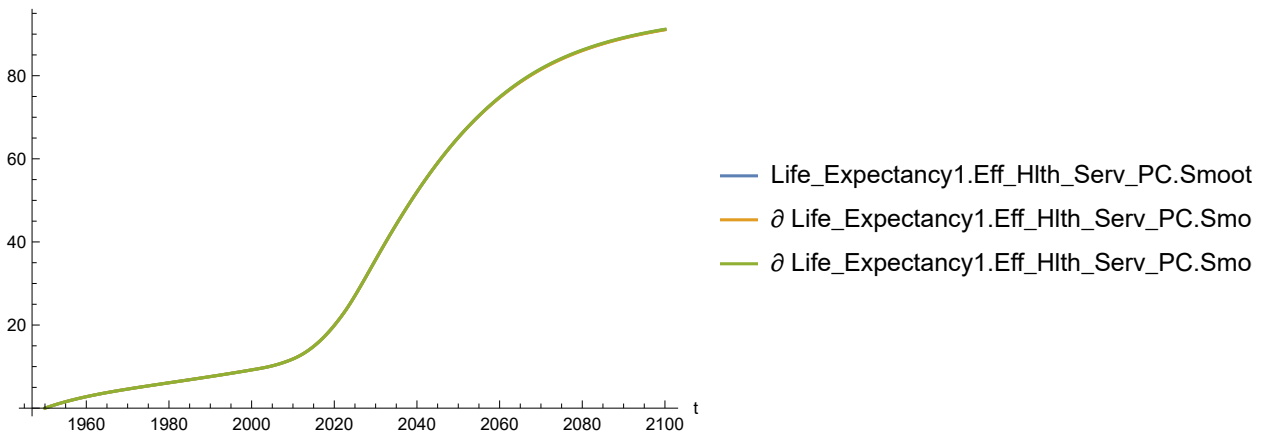
Out[184]=



In[185]:=

```
SystemModelPlot[simsensdata,
  {"Life_Expectancy1.Eff_Hlth_Serv_PC.Smooth_of_Input.Integrator1.y",
   "Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[4]", percentvar}]
```

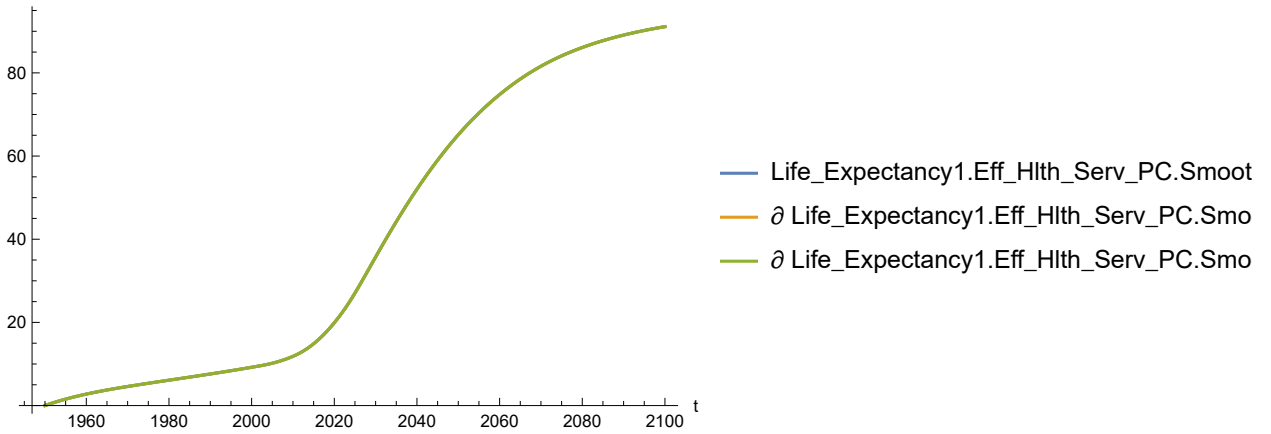
Out[185]=



In[186]:=

```
SystemModelPlot[simsensdata,
  {"Life_Expectancy1.Eff_Hlth_Serv_PC.Smooth_of_Input.Integrator1.y",
   "Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[5]", percentvar}]
```

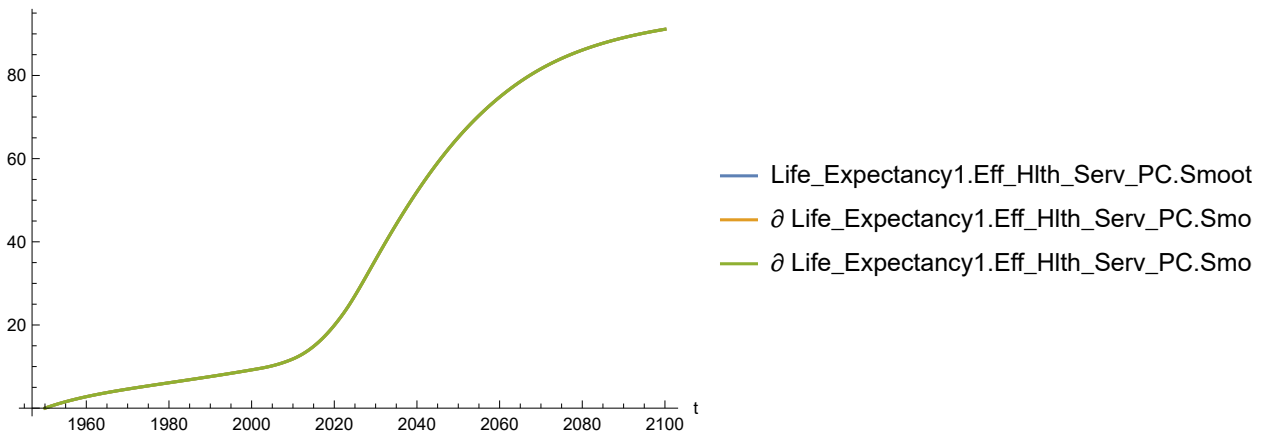
Out[186]=



In[187]:=

```
SystemModelPlot[simsensdata,
  {"Life_Expectancy1.Eff_Hlth_Serv_PC.Smooth_of_Input.Integrator1.y",
   "Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[6]", percentvar}]
```

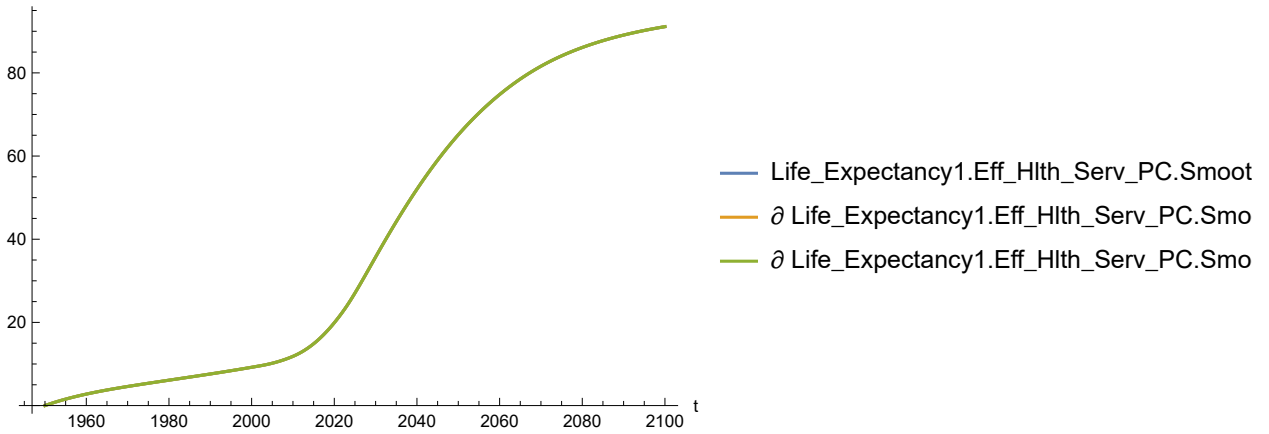
Out[187]=



In[188]:=

```
SystemModelPlot[simsensdata,
  {"Life_Expectancy1.Eff_Hlth_Serv_PC.Smooth_of_Input.Integrator1.y",
   "Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[7]", percentvar}]
```

Out[188]=

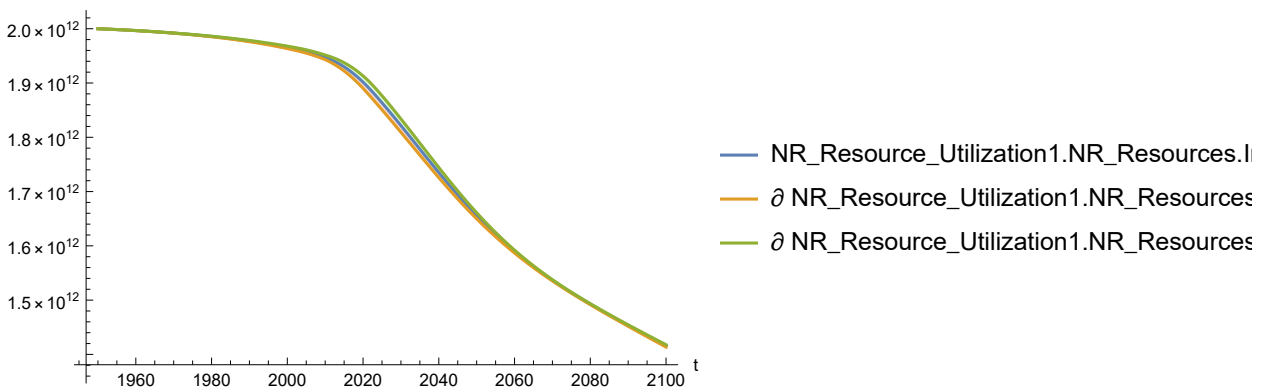


Plot the sensitivity of NR_Resource_Utilization1.NR_Resources.Integrator1.y to Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals.

In[189]:=

```
SystemModelPlot[simsensdata, {"NR_Resource_Utilization1.NR_Resources.Integrator1.y",
  "Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[1]", percentvar}]
```

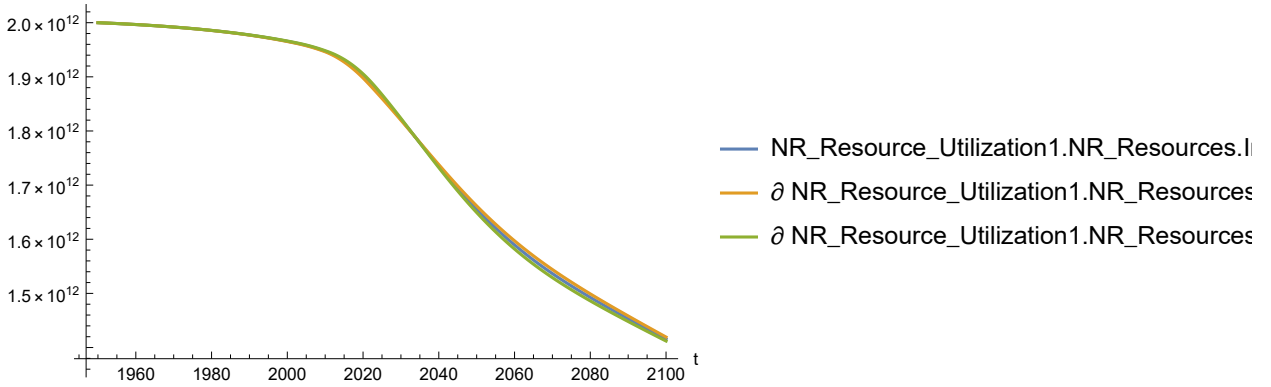
Out[189]=



In[190]:=

```
SystemModelPlot[simsensdata, {"NR_Resource_Utilization1.NR_Resources.Integrator1.y",
"Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[2]", percentvar}]
```

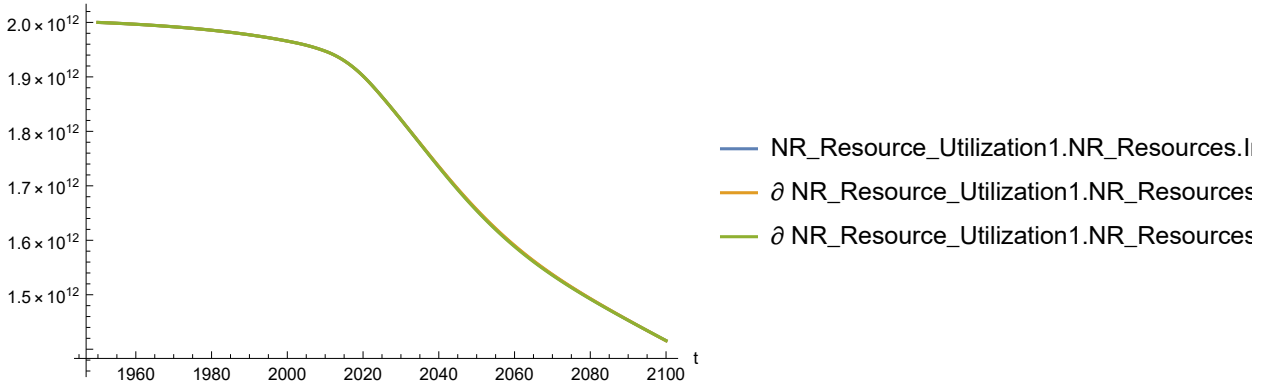
Out[190]=



In[191]:=

```
SystemModelPlot[simsensdata, {"NR_Resource_Utilization1.NR_Resources.Integrator1.y",
"Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[3]", percentvar}]
```

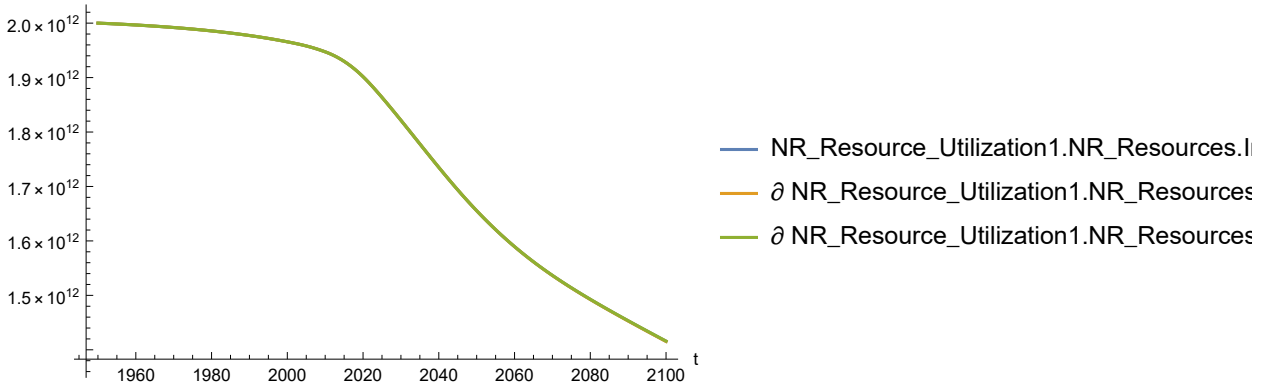
Out[191]=



In[192]:=

```
SystemModelPlot[simsensdata, {"NR_Resource_Utilization1.NR_Resources.Integrator1.y",
"Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[4]", percentvar}]
```

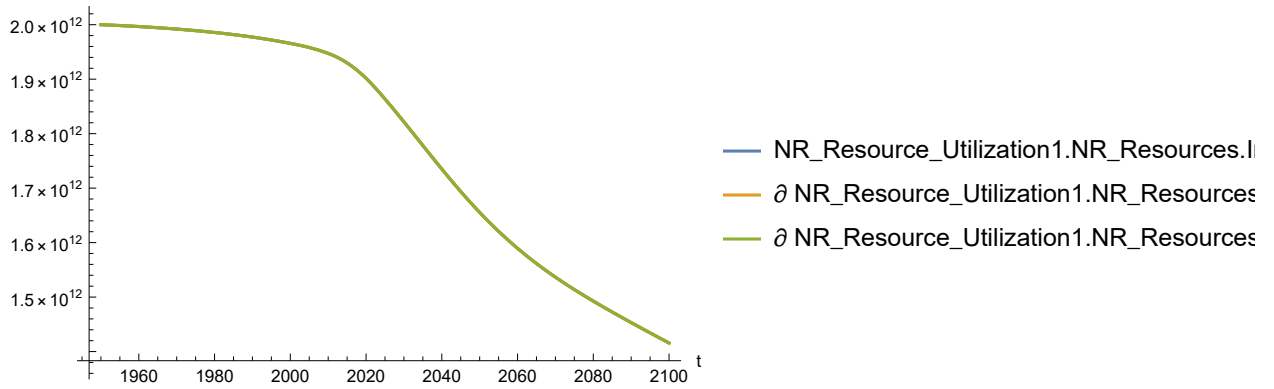
Out[192]=



In[193]:=

```
SystemModelPlot[simsensdata, {"NR_Resource_Utilization1.NR_Resources.Integrator1.y",
"Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[5]", percentvar}]
```

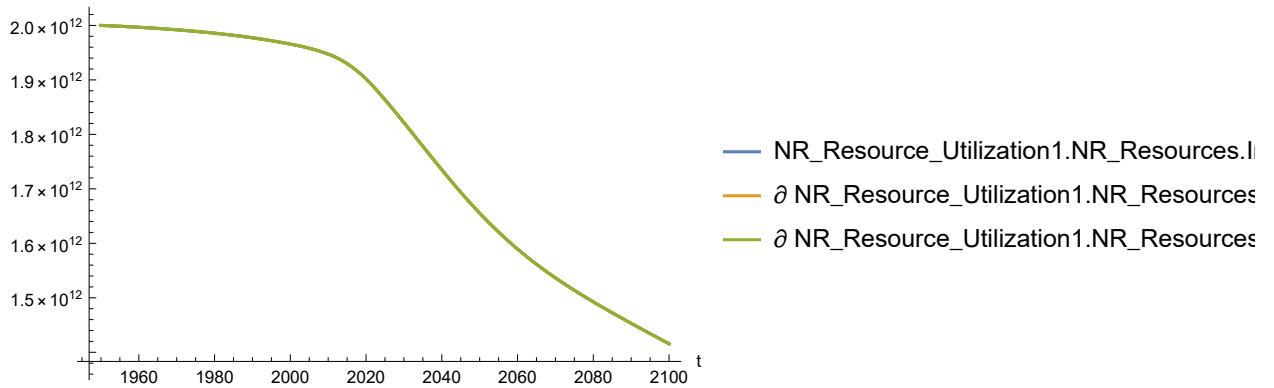
Out[193]=



In[194]:=

```
SystemModelPlot[simsensdata, {"NR_Resource_Utilization1.NR_Resources.Integrator1.y",
"Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[6]", percentvar}]
```

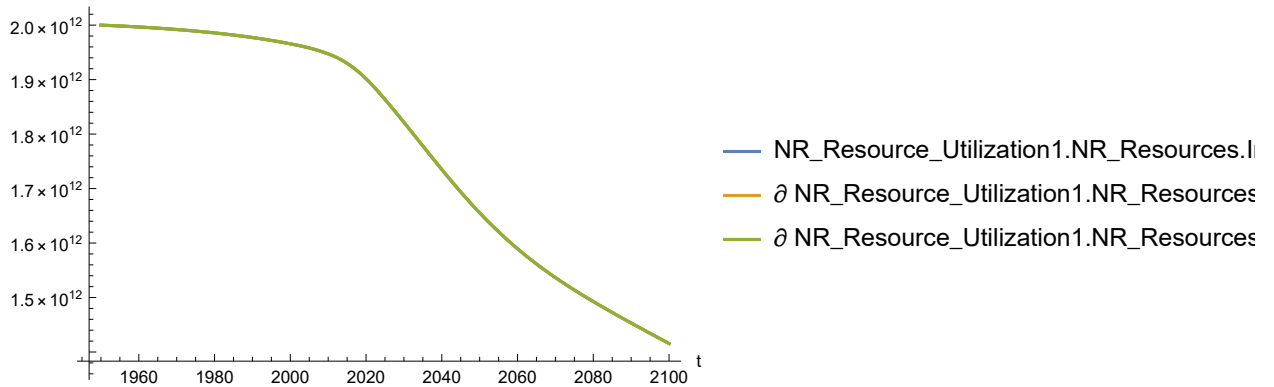
Out[194]=



In[195]:=

```
SystemModelPlot[simsensdata, {"NR_Resource_Utilization1.NR_Resources.Integrator1.y",
"Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[7]", percentvar}]
```

Out[195]=

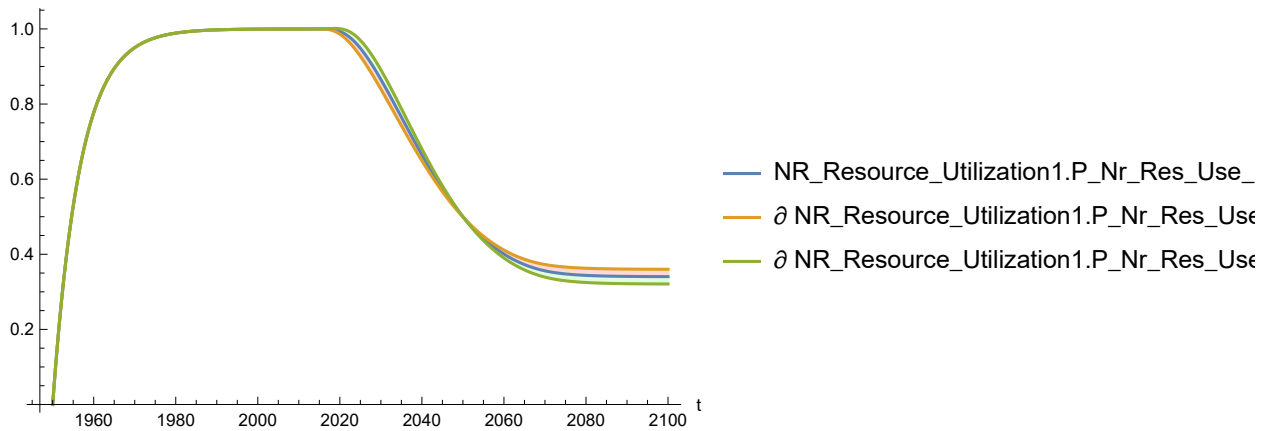


Plot the sensitivity of NR_Resource_Utilization1.P_Nr_Res_Use_Fact_2.Smooth1.Integrator1.y to Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals.

In[196]:=

```
SystemModelPlot[simsensdata,
  {"NR_Resource_Utilization1.P_Nr_Res_Use_Fact_2.Smooth1.Integrator1.y",
   "Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[1]", percentvar}]
```

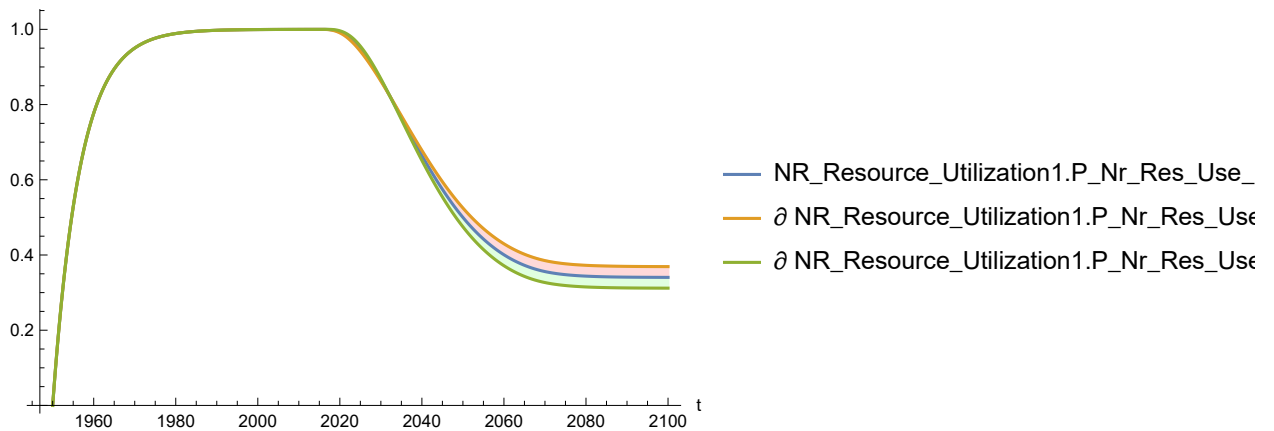
Out[196]=



In[197]:=

```
SystemModelPlot[simsensdata,
  {"NR_Resource_Utilization1.P_Nr_Res_Use_Fact_2.Smooth1.Integrator1.y",
   "Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[2]", percentvar}]
```

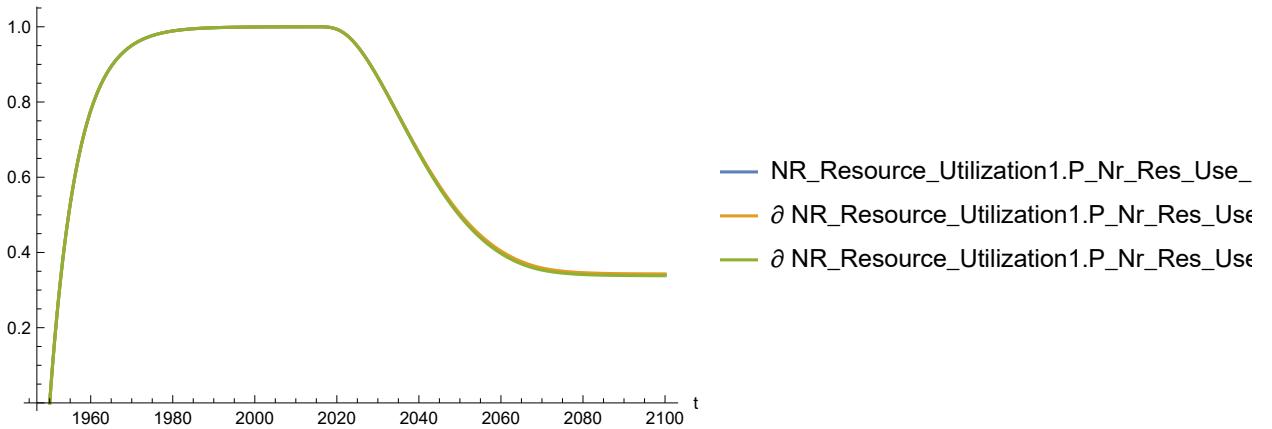
Out[197]=



In[198]:=

```
SystemModelPlot[simsensdata,
  {"NR_Resource_Utilization1.P_Nr_Res_Use_Fact_2.Smooth1.Integrator1.y",
   "Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[3]", percentvar}]
```

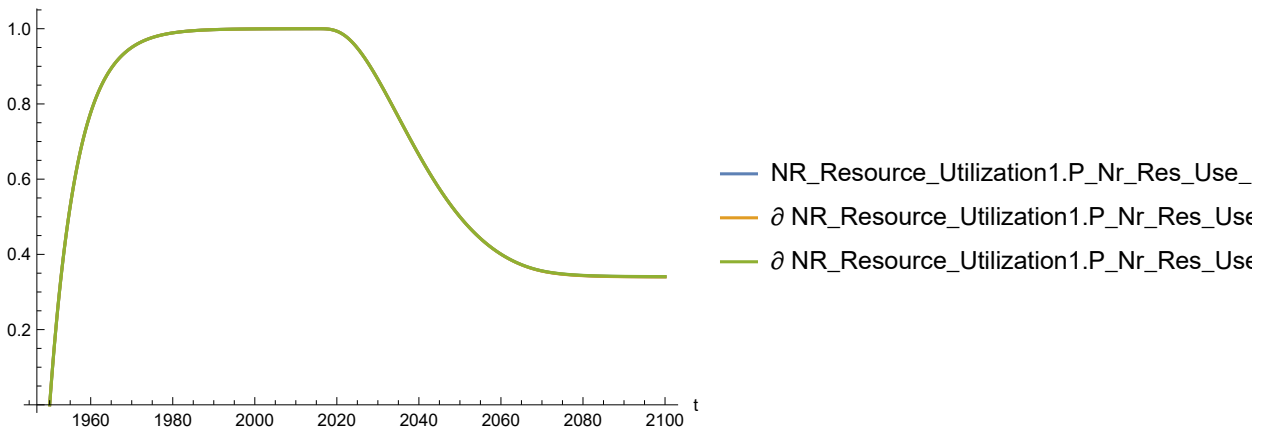
Out[198]=



In[199]:=

```
SystemModelPlot[simsensdata,
  {"NR_Resource_Utilization1.P_Nr_Res_Use_Fact_2.Smooth1.Integrator1.y",
   "Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[4]", percentvar}]
```

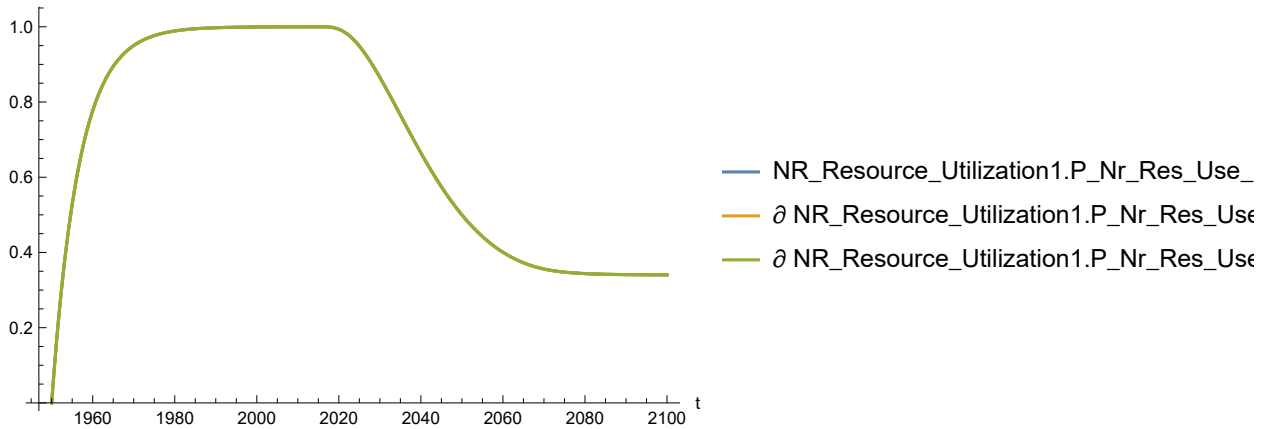
Out[199]=



In[200]:=

```
SystemModelPlot[simsensdata,
  {"NR_Resource_Utilization1.P_Nr_Res_Use_Fact_2.Smooth1.Integrator1.y",
   "Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[5]", percentvar}]
```

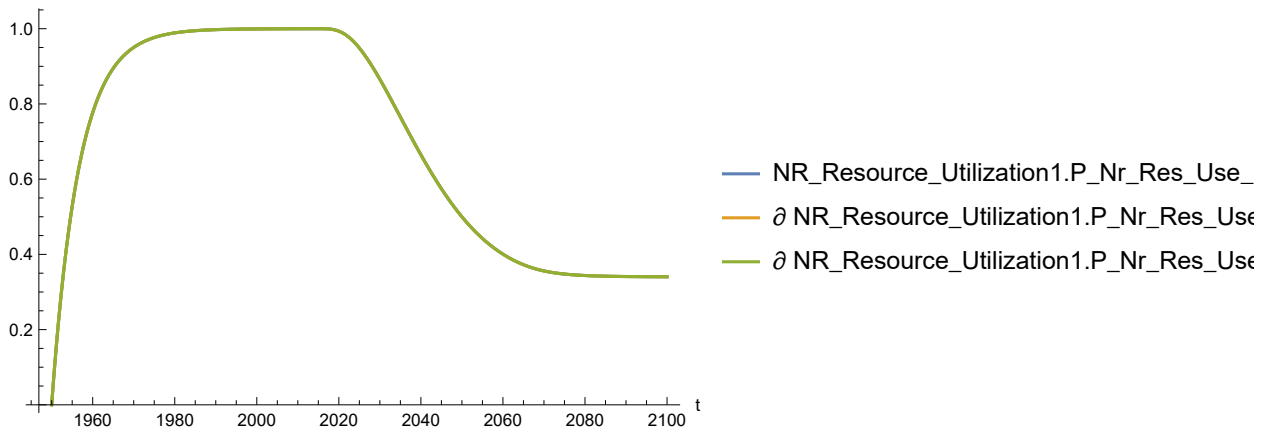
Out[200]=



In[201]:=

```
SystemModelPlot[simsensdata,
  {"NR_Resource_Utilization1.P_Nr_Res_Use_Fact_2.Smooth1.Integrator1.y",
   "Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[6]", percentvar}]
```

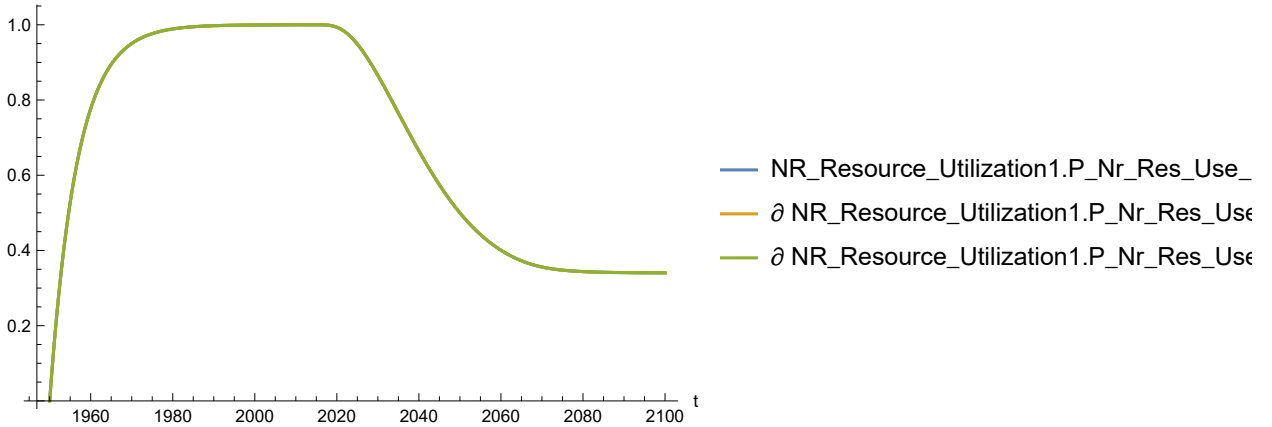
Out[201]=



In[202]:=

```
SystemModelPlot[simsensdata,
  {"NR_Resource_Utilization1.P_Nr_Res_Use_Fact_2.Smooth1.Integrator1.y",
   "Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[7]", percentvar}]
```

Out[202]=

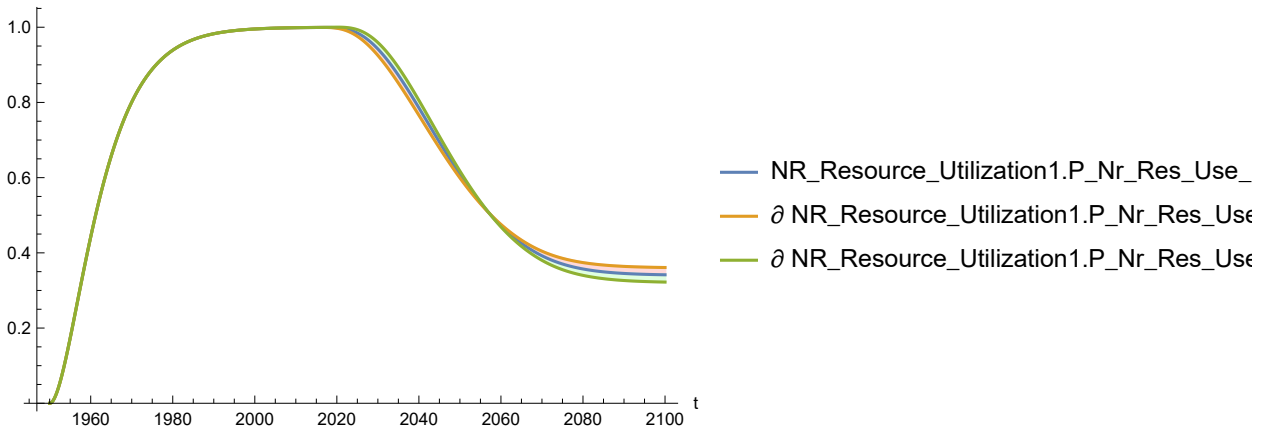


Plot the sensitivity of NR_Resource_Utilization1.P_Nr_Res_Use_Fact_2.Smooth2.Integrator1.y to Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals.

In[203]:=

```
SystemModelPlot[simsensdata,
  {"NR_Resource_Utilization1.P_Nr_Res_Use_Fact_2.Smooth2.Integrator1.y",
   "Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[1]", percentvar}]
```

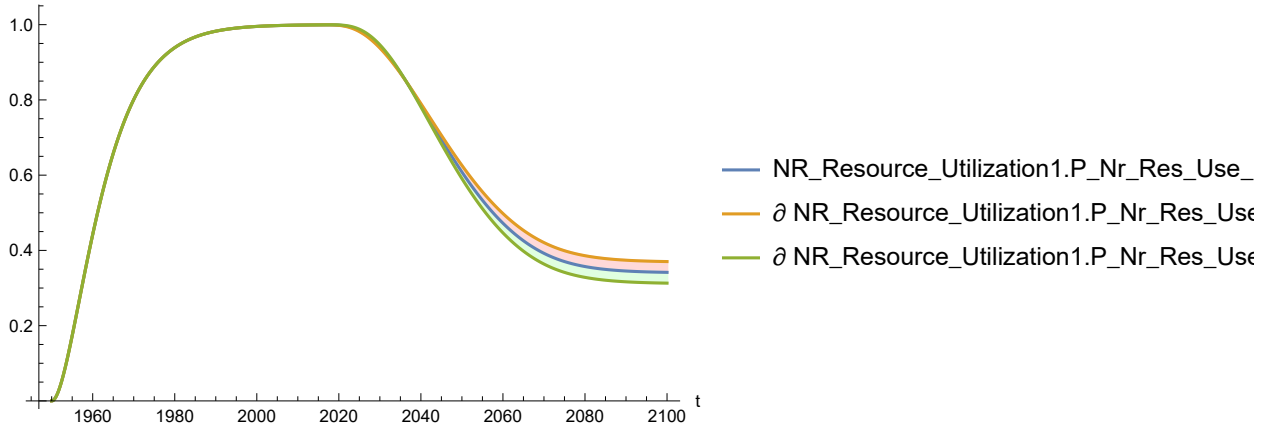
Out[203]=



In[204]:=

```
SystemModelPlot[simsensdata,
  {"NR_Resource_Utilization1.P_Nr_Res_Use_Fact_2.Smooth2.Integrator1.y",
   "Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[2]", percentvar}]
```

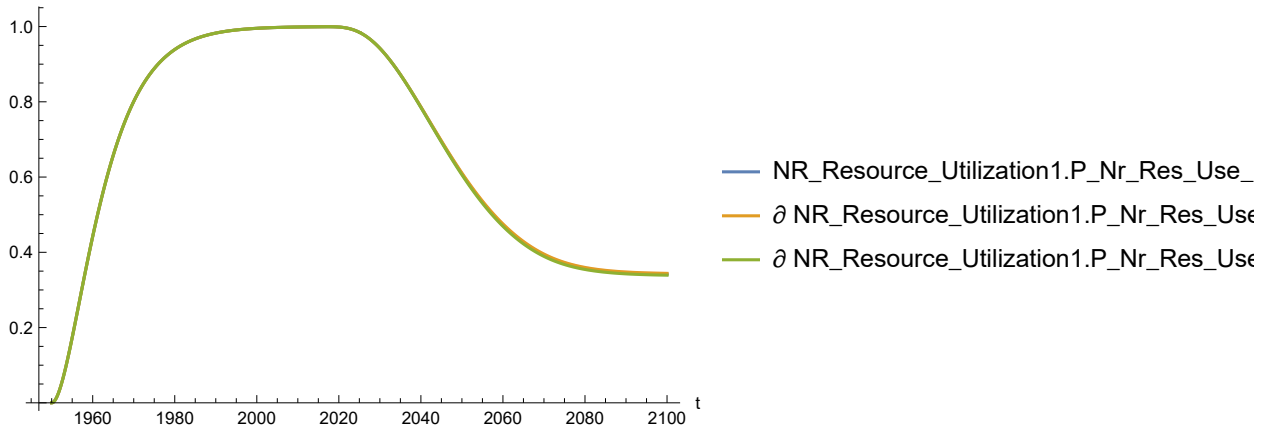
Out[204]=



In[205]:=

```
SystemModelPlot[simsensdata,
  {"NR_Resource_Utilization1.P_Nr_Res_Use_Fact_2.Smooth2.Integrator1.y",
   "Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[3]", percentvar}]
```

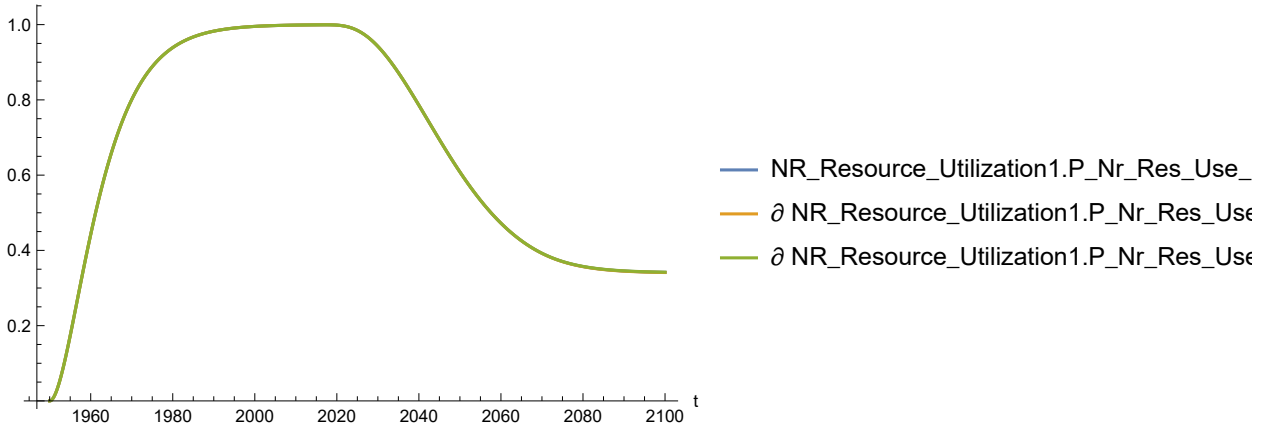
Out[205]=



In[206]:=

```
SystemModelPlot[simsensdata,
  {"NR_Resource_Utilization1.P_Nr_Res_Use_Fact_2.Smooth2.Integrator1.y",
   "Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[4]", percentvar}]
```

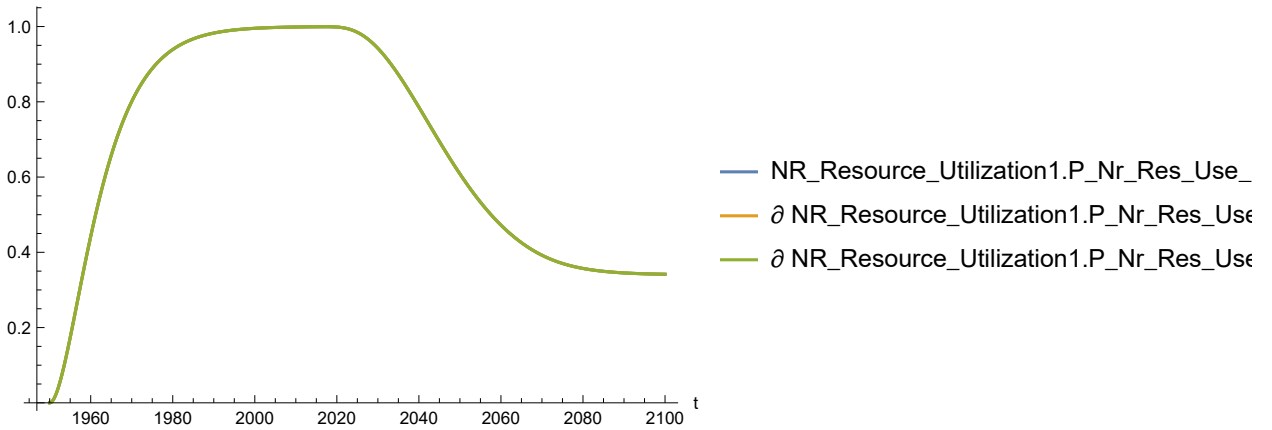
Out[206]=



In[207]:=

```
SystemModelPlot[simsensdata,
  {"NR_Resource_Utilization1.P_Nr_Res_Use_Fact_2.Smooth2.Integrator1.y",
   "Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[5]", percentvar}]
```

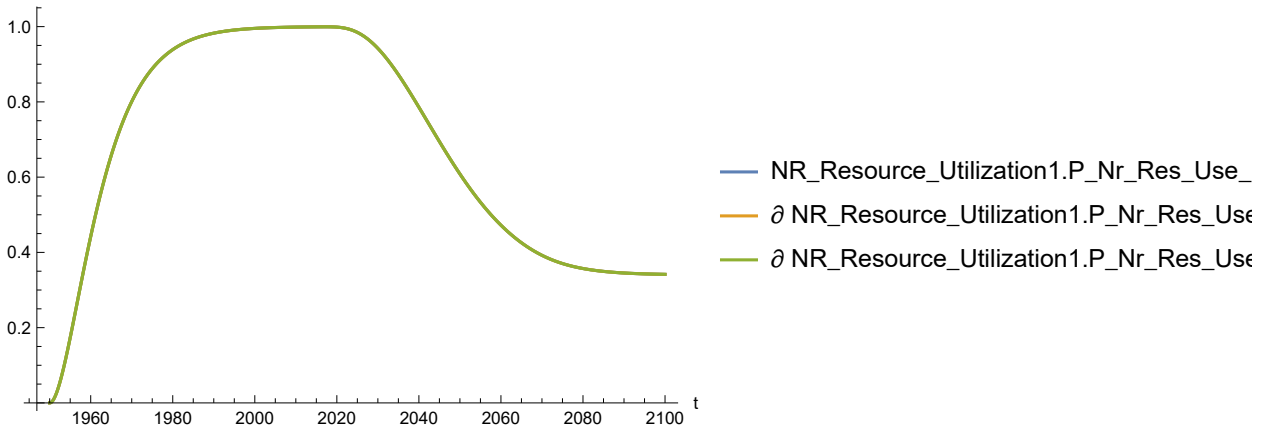
Out[207]=



In[208]:=

```
SystemModelPlot[simsensdata,
  {"NR_Resource_Utilization1.P_Nr_Res_Use_Fact_2.Smooth2.Integrator1.y",
   "Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[6]", percentvar}]
```

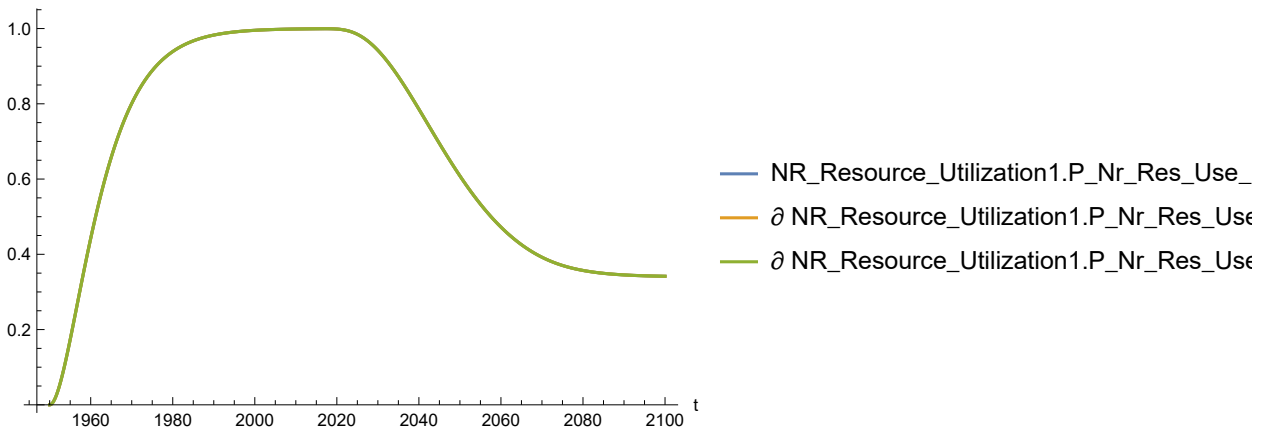
Out[208]=



In[209]:=

```
SystemModelPlot[simsensdata,
  {"NR_Resource_Utilization1.P_Nr_Res_Use_Fact_2.Smooth2.Integrator1.y",
   "Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[7]", percentvar}]
```

Out[209]=

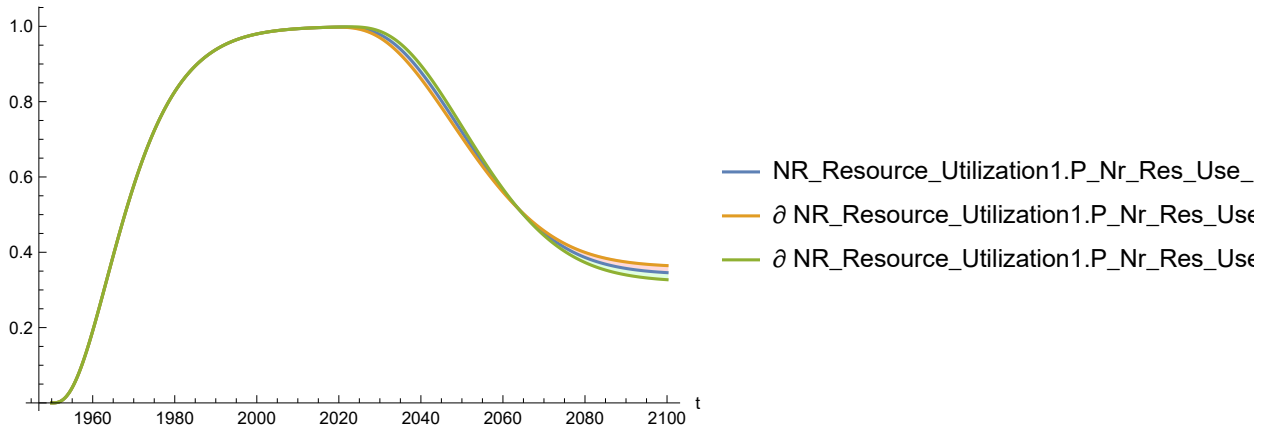


Plot the sensitivity of NR_Resource_Utilization1.P_Nr_Res_Use_Fact_2.Smooth3.Integrator1.y to Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals.

In[210]:=

```
SystemModelPlot[simsensdata,
  {"NR_Resource_Utilization1.P_Nr_Res_Use_Fact_2.Smooth3.Integrator1.y",
   "Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[1]", percentvar}]
```

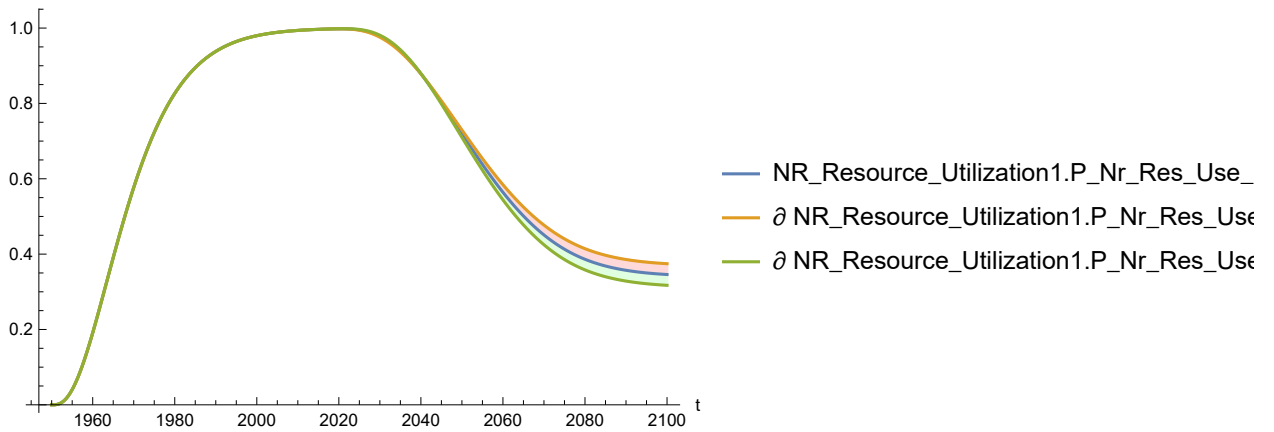
Out[210]=



In[211]:=

```
SystemModelPlot[simsensdata,
  {"NR_Resource_Utilization1.P_Nr_Res_Use_Fact_2.Smooth3.Integrator1.y",
   "Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[2]", percentvar}]
```

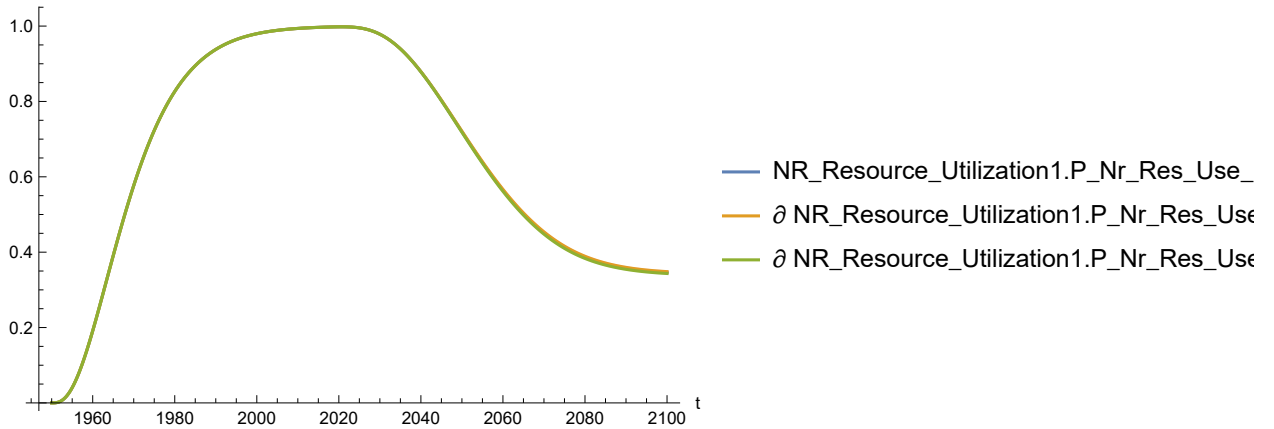
Out[211]=



In[212]:=

```
SystemModelPlot[simsensdata,
  {"NR_Resource_Utilization1.P_Nr_Res_Use_Fact_2.Smooth3.Integrator1.y",
   "Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[3]", percentvar}]
```

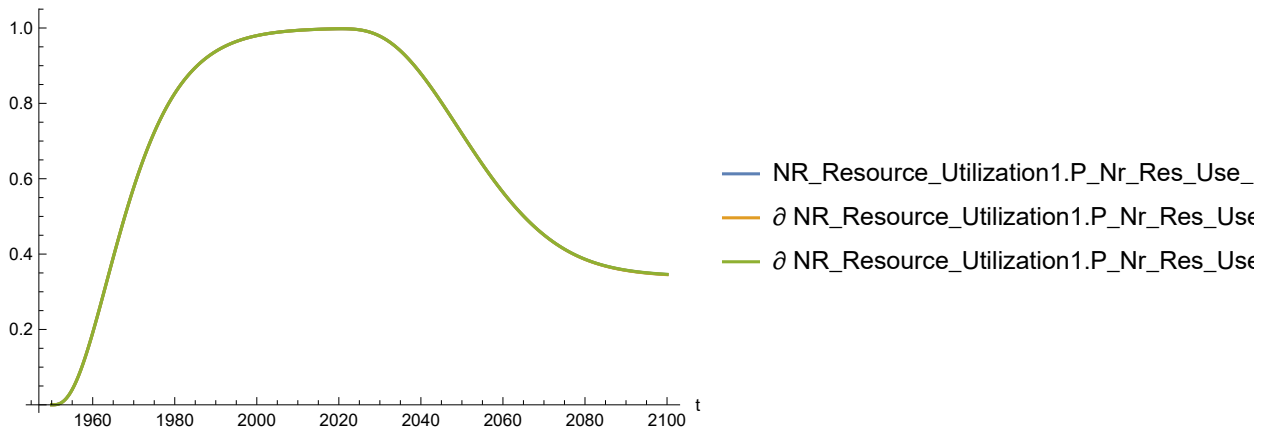
Out[212]=



In[213]:=

```
SystemModelPlot[simsensdata,
  {"NR_Resource_Utilization1.P_Nr_Res_Use_Fact_2.Smooth3.Integrator1.y",
   "Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[4]", percentvar}]
```

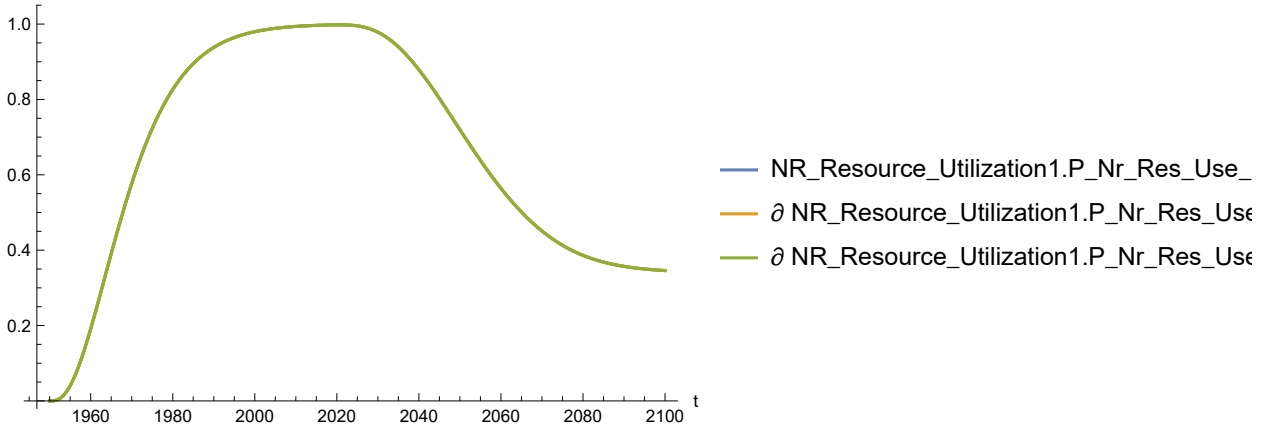
Out[213]=



In[214]:=

```
SystemModelPlot[simsensdata,
  {"NR_Resource_Utilization1.P_Nr_Res_Use_Fact_2.Smooth3.Integrator1.y",
   "Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[5]", percentvar}]
```

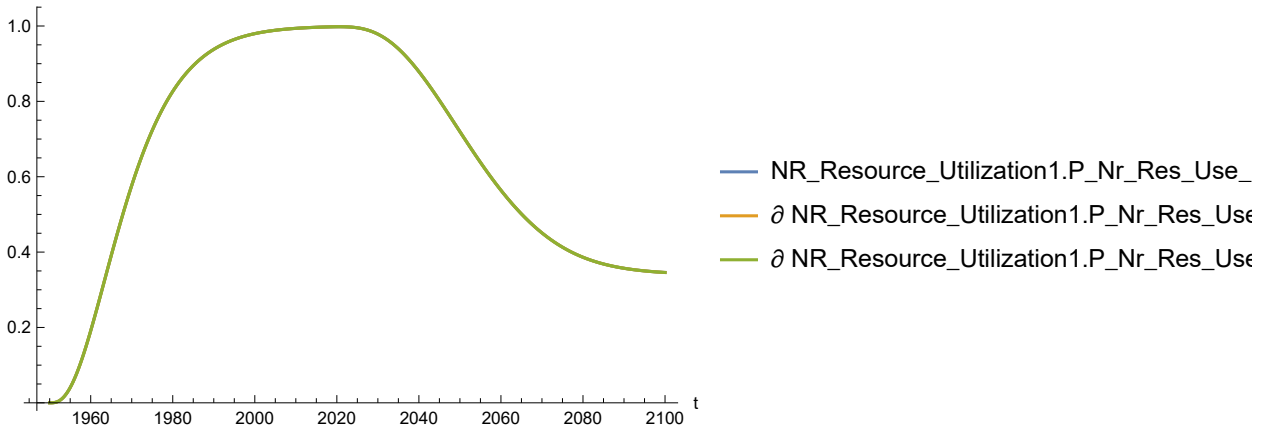
Out[214]=



In[215]:=

```
SystemModelPlot[simsensdata,
  {"NR_Resource_Utilization1.P_Nr_Res_Use_Fact_2.Smooth3.Integrator1.y",
   "Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[6]", percentvar}]
```

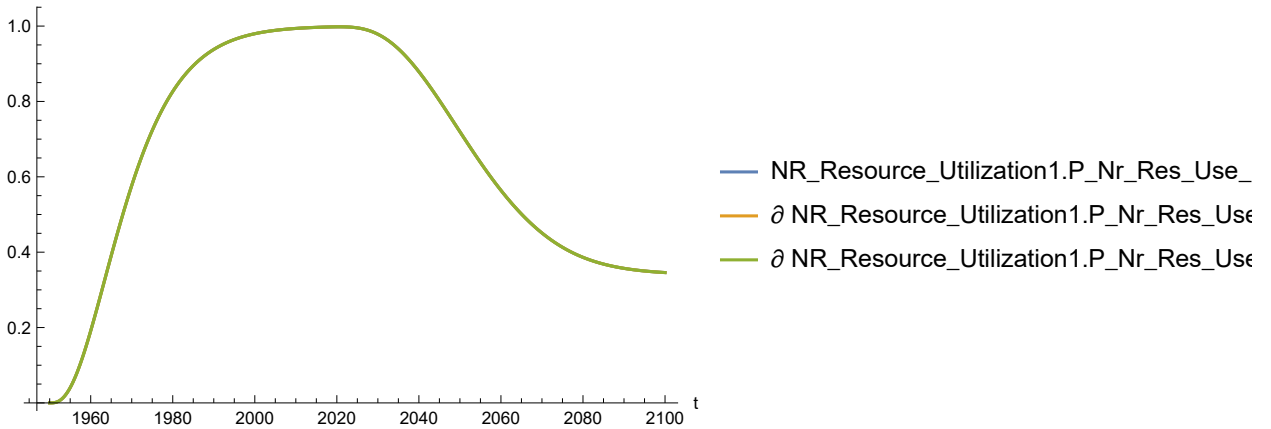
Out[215]=



In[216]:=

```
SystemModelPlot[simsensdata,
  {"NR_Resource_Utilization1.P_Nr_Res_Use_Fact_2.Smooth3.Integrator1.y",
   "Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[7]", percentvar}]
```

Out[216]=

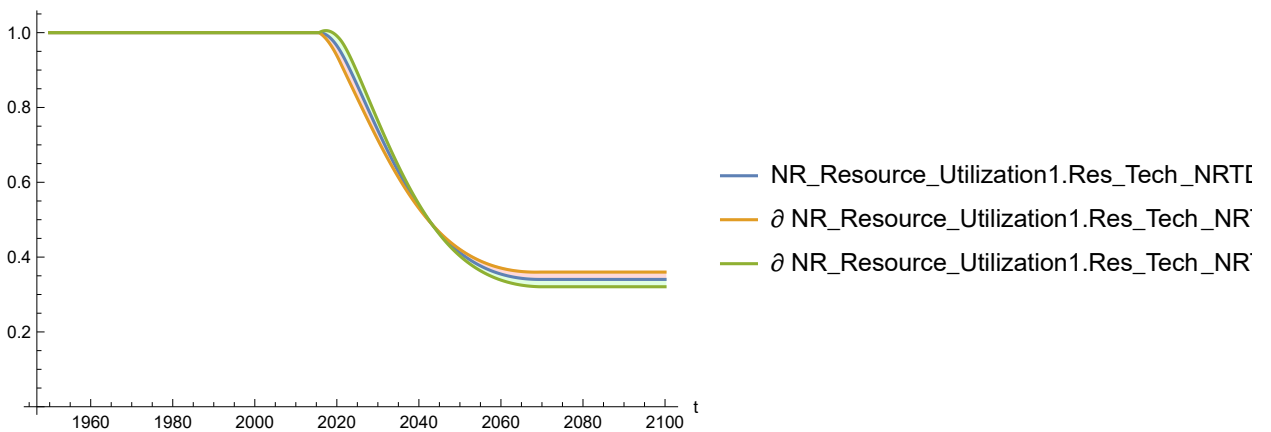


Plot the sensitivity of NR_Resource_Utilization1.Res_Tech_NRTD.Integrator1.y to Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals.

In[217]:=

```
SystemModelPlot[simsensdata, {"NR_Resource_Utilization1.Res_Tech_NRTD.Integrator1.y",
  "Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[1]", percentvar}]
```

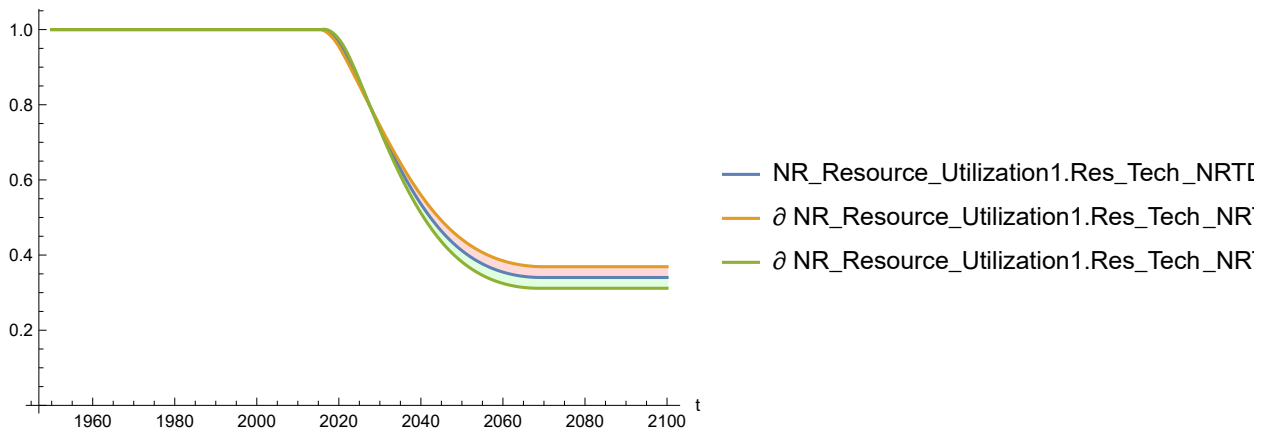
Out[217]=



In[218]:=

```
SystemModelPlot[simsensdata, {"NR_Resource_Utilization1.Res_Tech_NRTD.Integrator1.y",
"Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[2]", percentvar}]
```

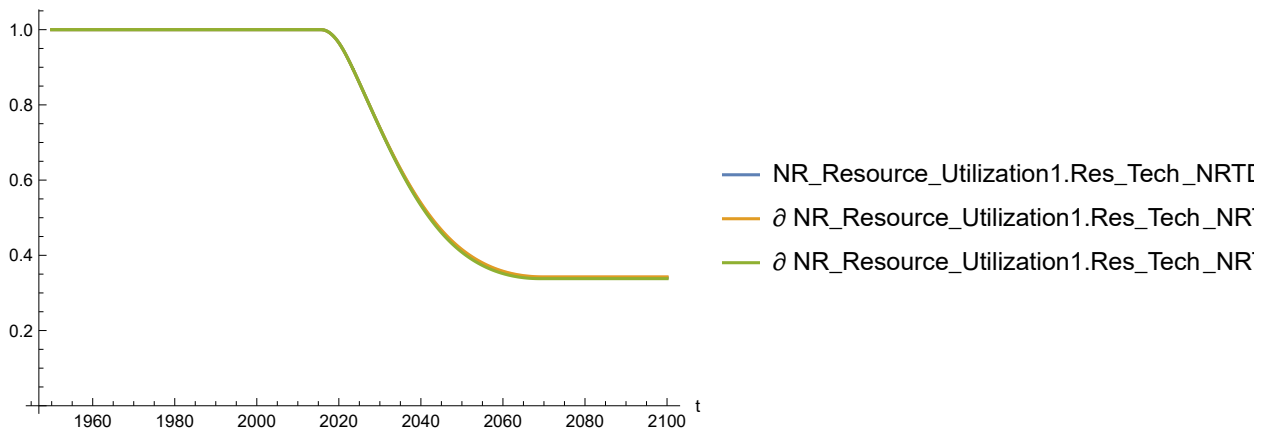
Out[218]=



In[219]:=

```
SystemModelPlot[simsensdata, {"NR_Resource_Utilization1.Res_Tech_NRTD.Integrator1.y",
"Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[3]", percentvar}]
```

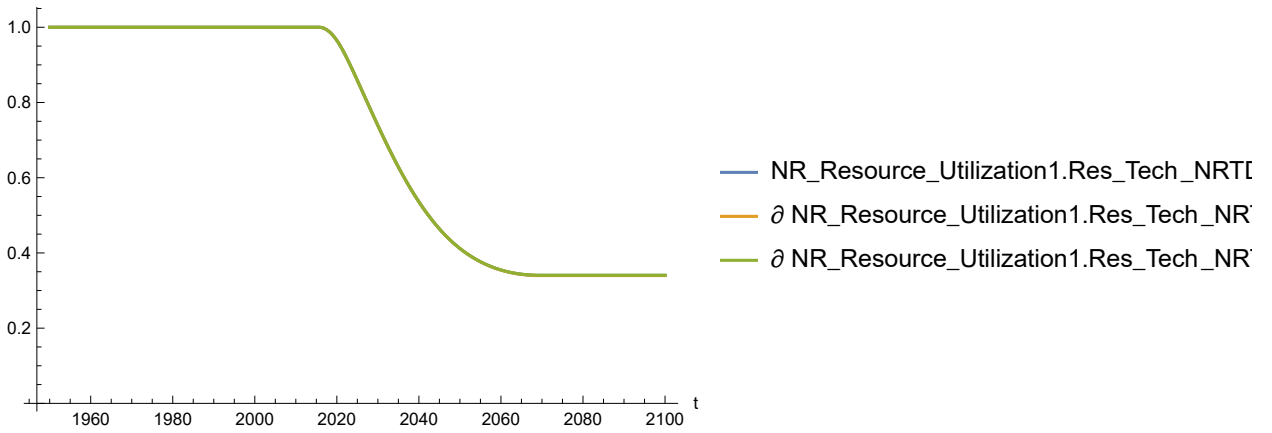
Out[219]=



In[220]:=

```
SystemModelPlot[simsensdata, {"NR_Resource_Utilization1.Res_Tech_NRTD.Integrator1.y",
"Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[4]", percentvar}]
```

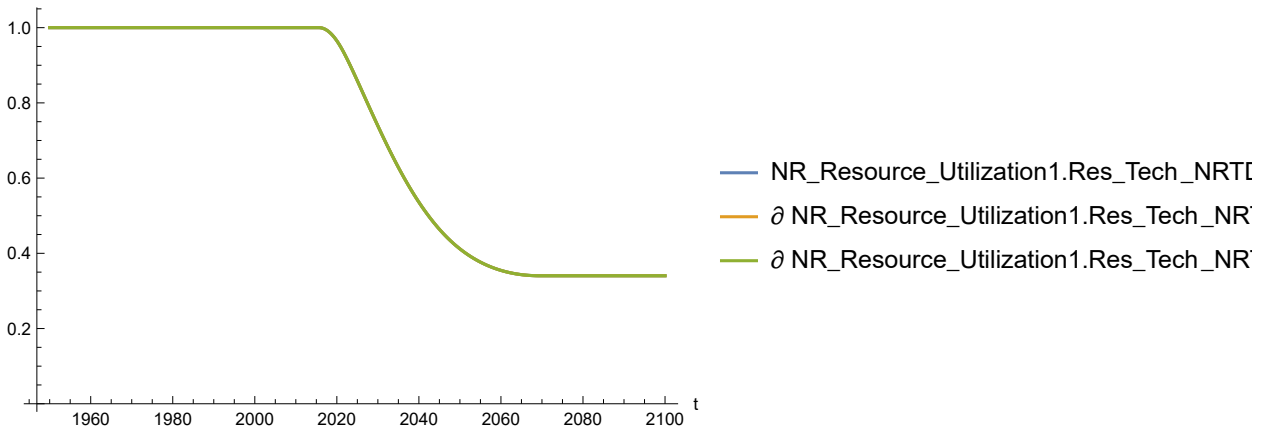
Out[220]=



In[221]:=

```
SystemModelPlot[simsensdata, {"NR_Resource_Utilization1.Res_Tech_NRTD.Integrator1.y",
"Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[5]", percentvar}]
```

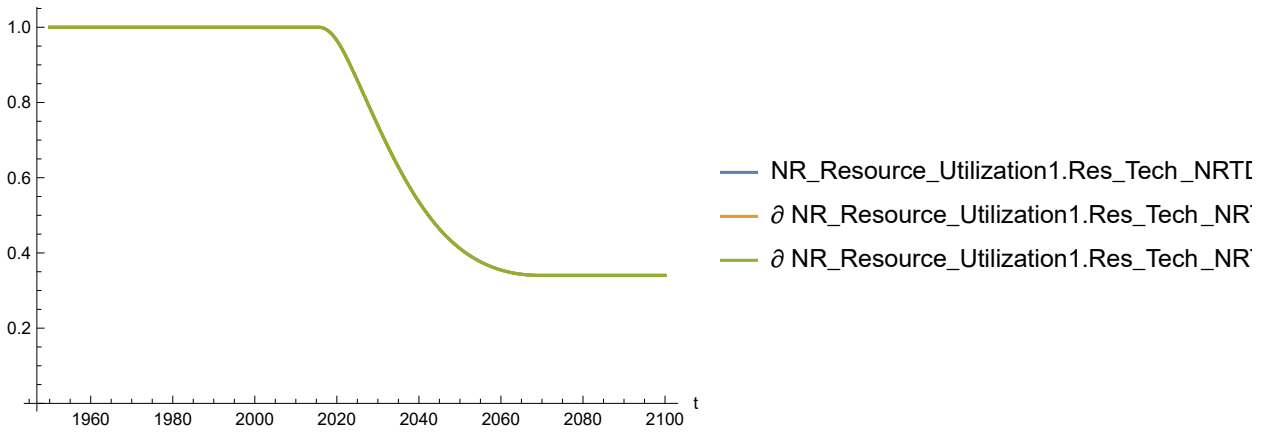
Out[221]=



In[222]:=

```
SystemModelPlot[simsensdata, {"NR_Resource_Utilization1.Res_Tech_NRTD.Integrator1.y",
"Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[6]", percentvar}]
```

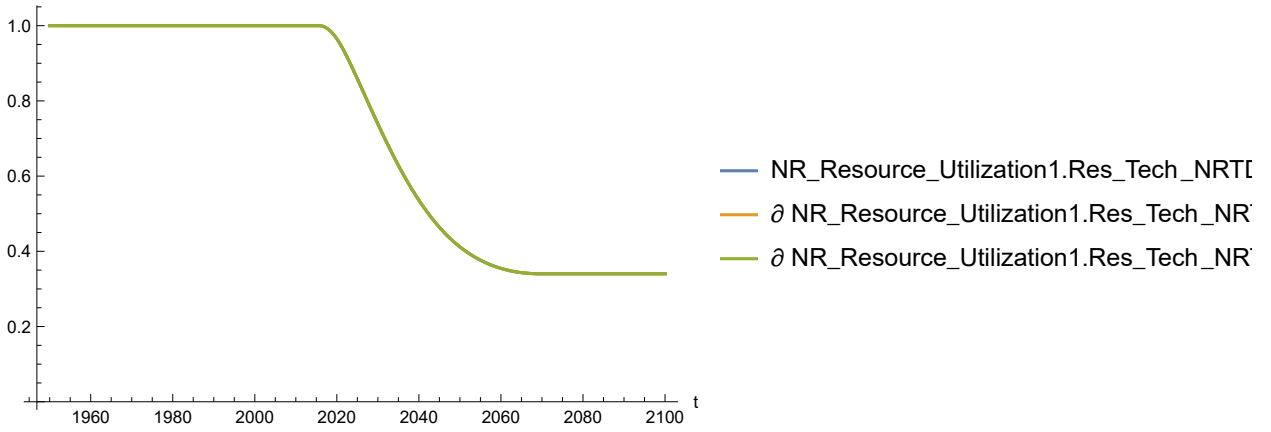
Out[222]=



In[223]:=

```
SystemModelPlot[simsensdata, {"NR_Resource_Utilization1.Res_Tech_NRTD.Integrator1.y",
"Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[7]", percentvar}]
```

Out[223]=

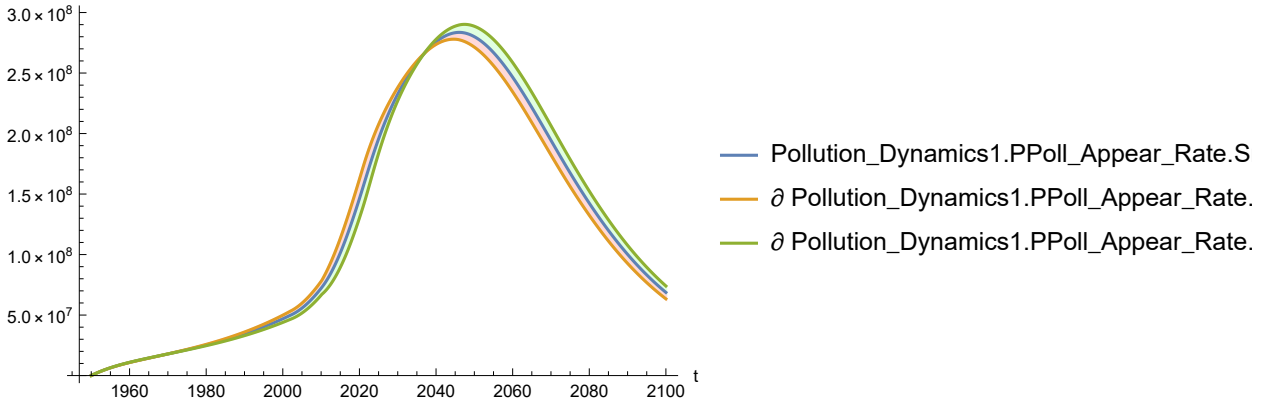


Plot the sensitivity of Pollution_Dynamics1.PPoll_Appear_Rate.Smooth1.Integrator1.y to Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals.

In[224]:=

```
SystemModelPlot[simsensdata,
  {"Pollution_Dynamics1.PPoll_Appear_Rate.Smooth1.Integrator1.y",
   "Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[1]", percentvar}]
```

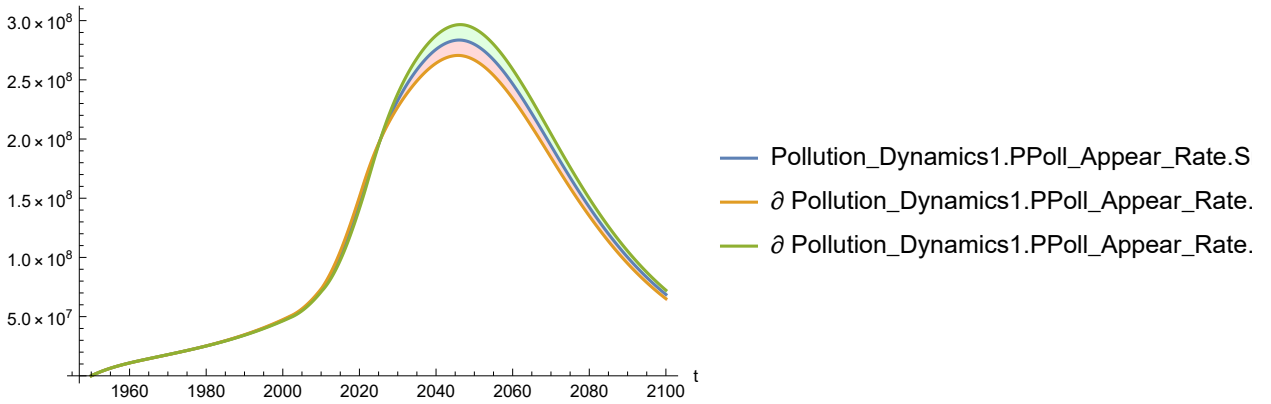
Out[224]=



In[225]:=

```
SystemModelPlot[simsensdata,
  {"Pollution_Dynamics1.PPoll_Appear_Rate.Smooth1.Integrator1.y",
   "Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[2]", percentvar}]
```

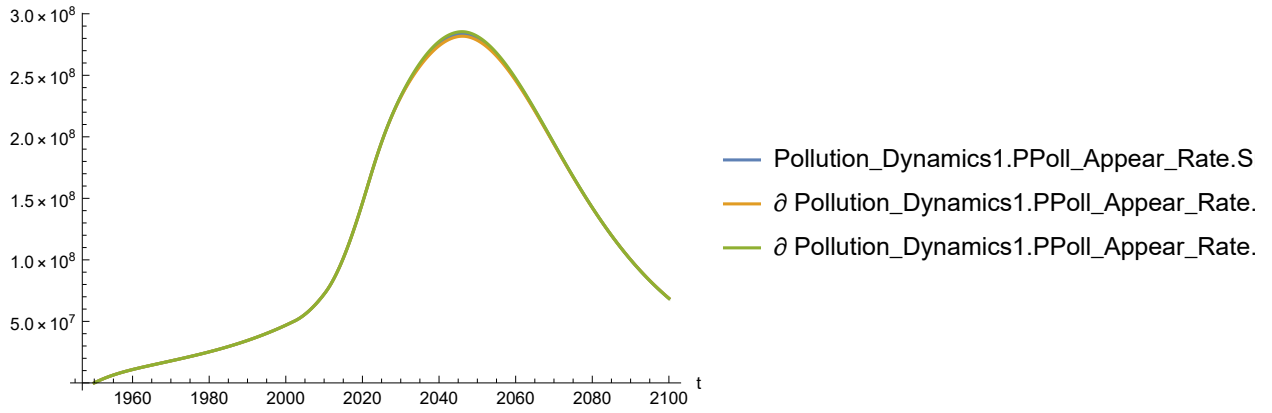
Out[225]=



In[226]:=

```
SystemModelPlot[simsensdata,
  {"Pollution_Dynamics1.PPoll_Appear_Rate.Smooth1.Integrator1.y",
   "Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[3]", percentvar}]
```

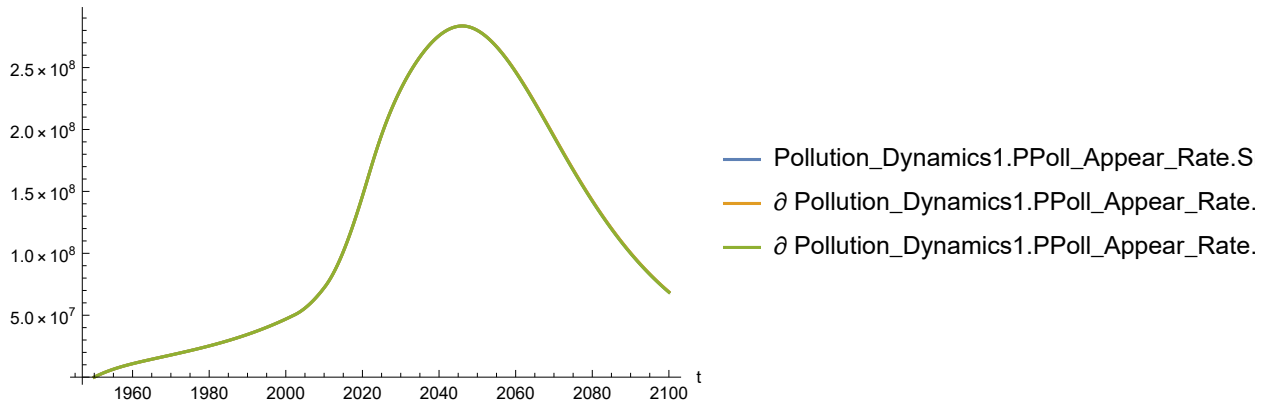
Out[226]=



In[227]:=

```
SystemModelPlot[simsensdata,
  {"Pollution_Dynamics1.PPoll_Appear_Rate.Smooth1.Integrator1.y",
   "Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[4]", percentvar}]
```

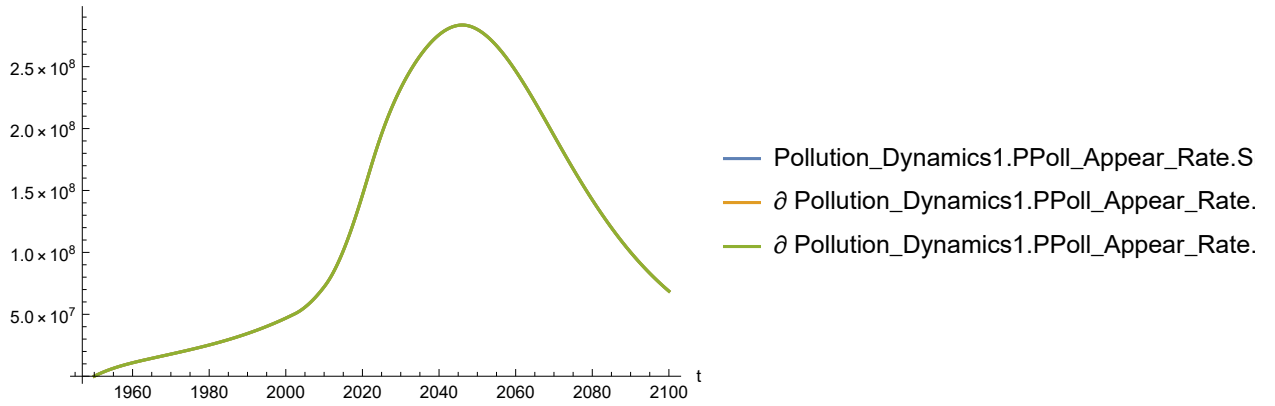
Out[227]=



In[228]:=

```
SystemModelPlot[simsensdata,
  {"Pollution_Dynamics1.PPoll_Appear_Rate.Smooth1.Integrator1.y",
   "Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[5]", percentvar}]
```

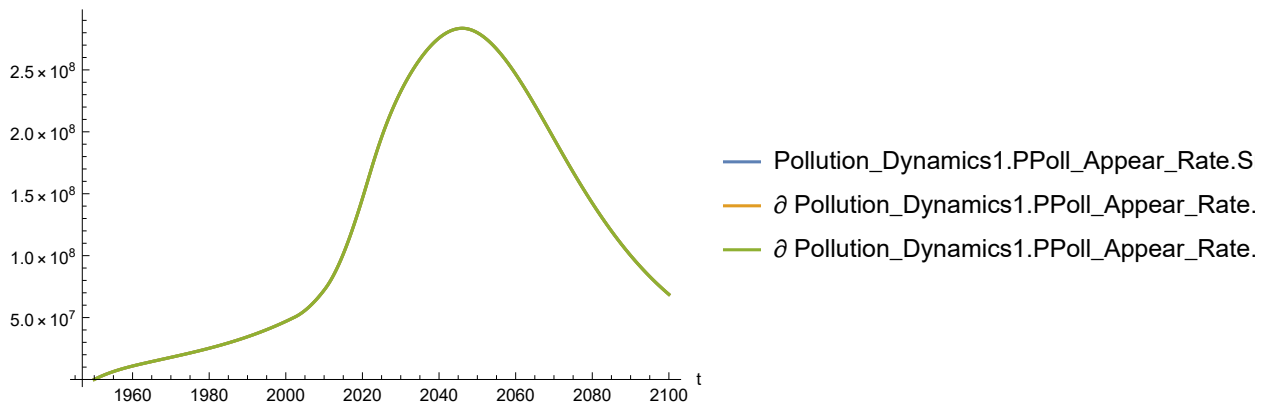
Out[228]=



In[229]:=

```
SystemModelPlot[simsensdata,
  {"Pollution_Dynamics1.PPoll_Appear_Rate.Smooth1.Integrator1.y",
   "Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[6]", percentvar}]
```

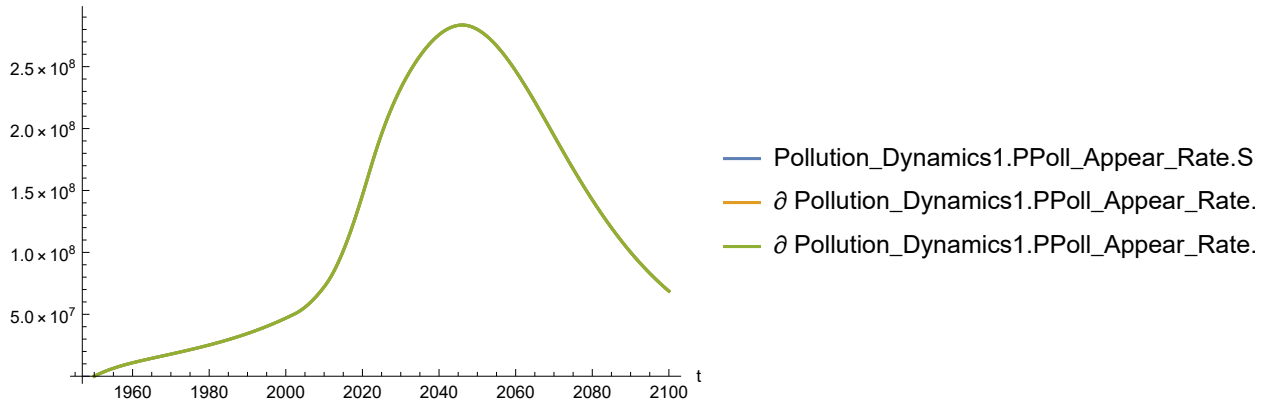
Out[229]=



In[230]:=

```
SystemModelPlot[simsensdata,
  {"Pollution_Dynamics1.PPoll_Appear_Rate.Smooth1.Integrator1.y",
   "Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[7]", percentvar}]
```

Out[230]=

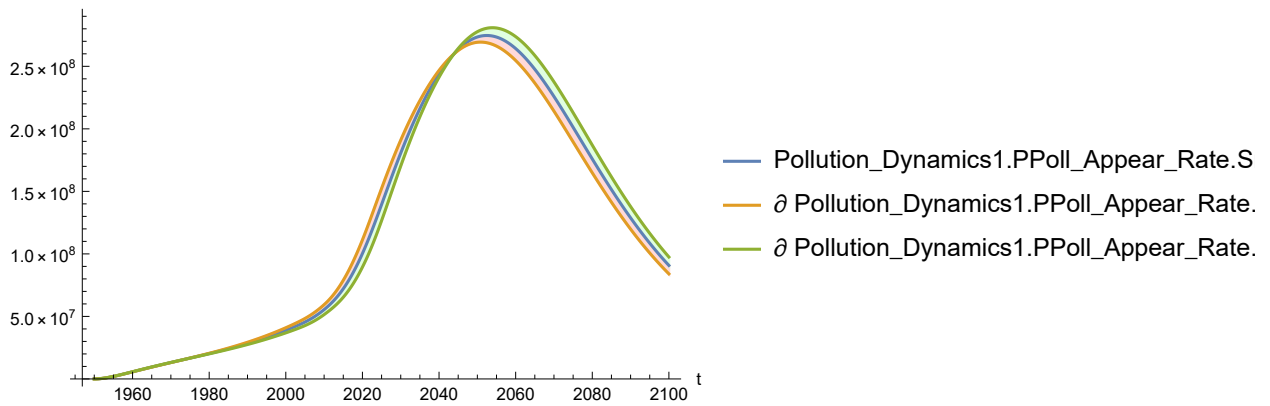


Plot the sensitivity of Pollution_Dynamics1.PPoll_Appear_Rate.Smooth2.Integrator1.y to Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals.

In[231]:=

```
SystemModelPlot[simsensdata,
  {"Pollution_Dynamics1.PPoll_Appear_Rate.Smooth2.Integrator1.y",
   "Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[1]", percentvar}]
```

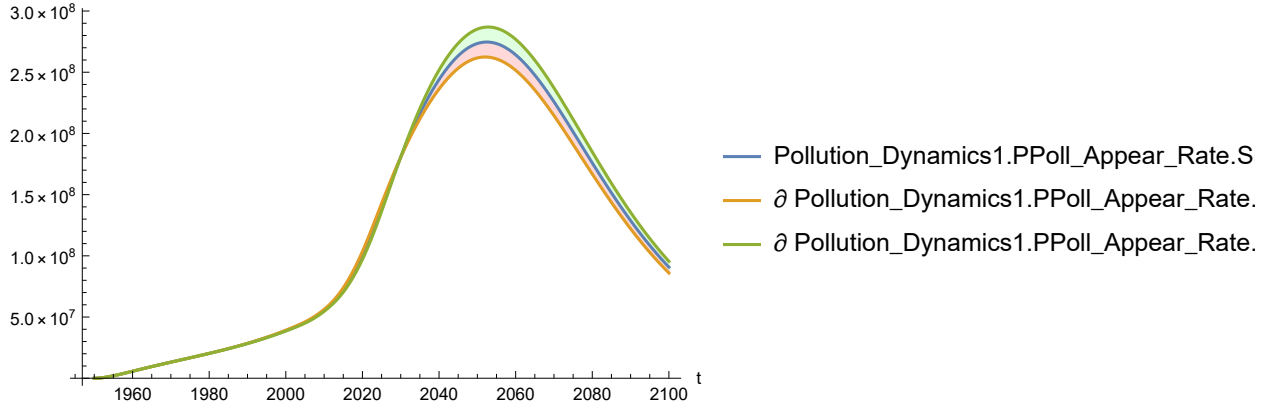
Out[231]=



In[232]:=

```
SystemModelPlot[simsensdata,
  {"Pollution_Dynamics1.PPoll_Appear_Rate.Smooth2.Integrator1.y",
   "Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[2]", percentvar}]
```

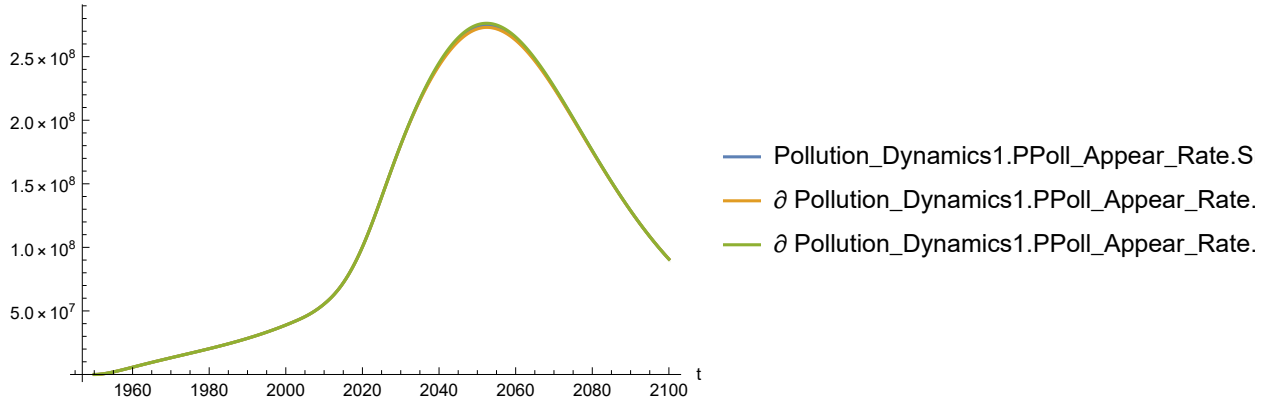
Out[232]=



In[233]:=

```
SystemModelPlot[simsensdata,
  {"Pollution_Dynamics1.PPoll_Appear_Rate.Smooth2.Integrator1.y",
   "Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[3]", percentvar}]
```

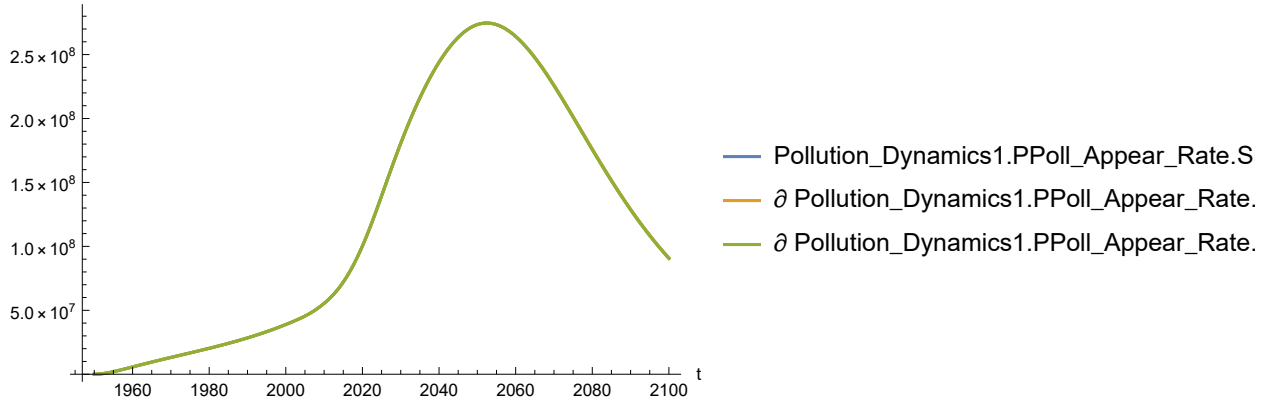
Out[233]=



In[234]:=

```
SystemModelPlot[simsensdata,
  {"Pollution_Dynamics1.PPoll_Appear_Rate.Smooth2.Integrator1.y",
   "Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[4]", percentvar}]
```

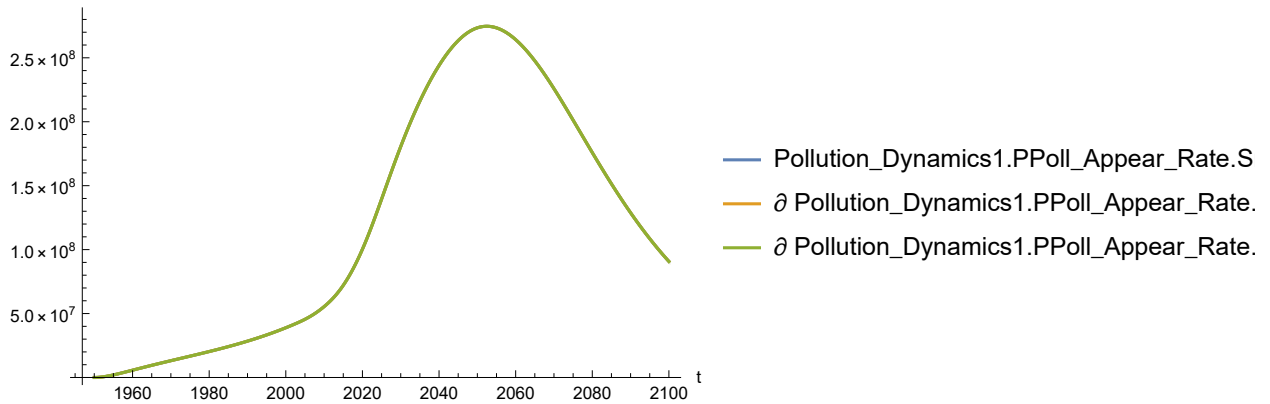
Out[234]=



In[235]:=

```
SystemModelPlot[simsensdata,
  {"Pollution_Dynamics1.PPoll_Appear_Rate.Smooth2.Integrator1.y",
   "Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[5]", percentvar}]
```

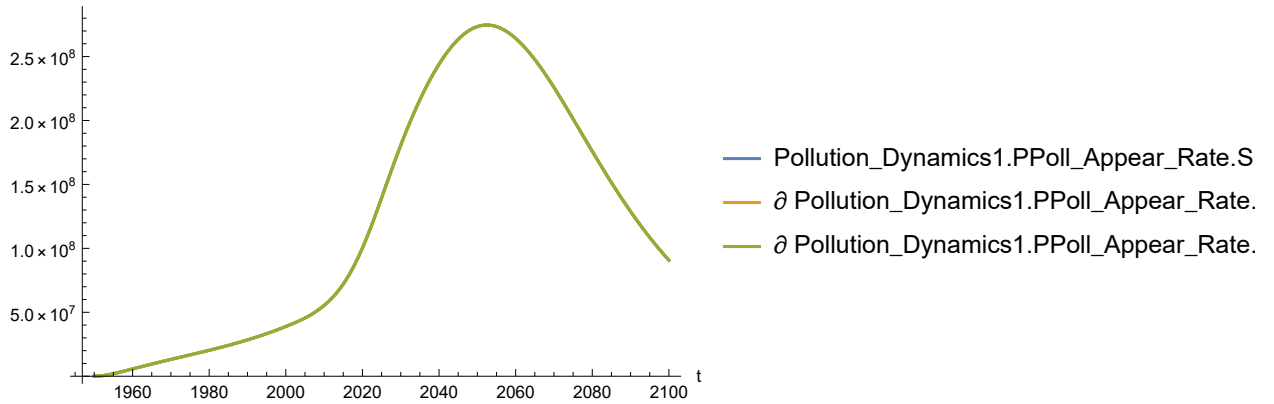
Out[235]=



In[236]:=

```
SystemModelPlot[simsensdata,
  {"Pollution_Dynamics1.PPoll_Appear_Rate.Smooth2.Integrator1.y",
   "Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[6]", percentvar}]
```

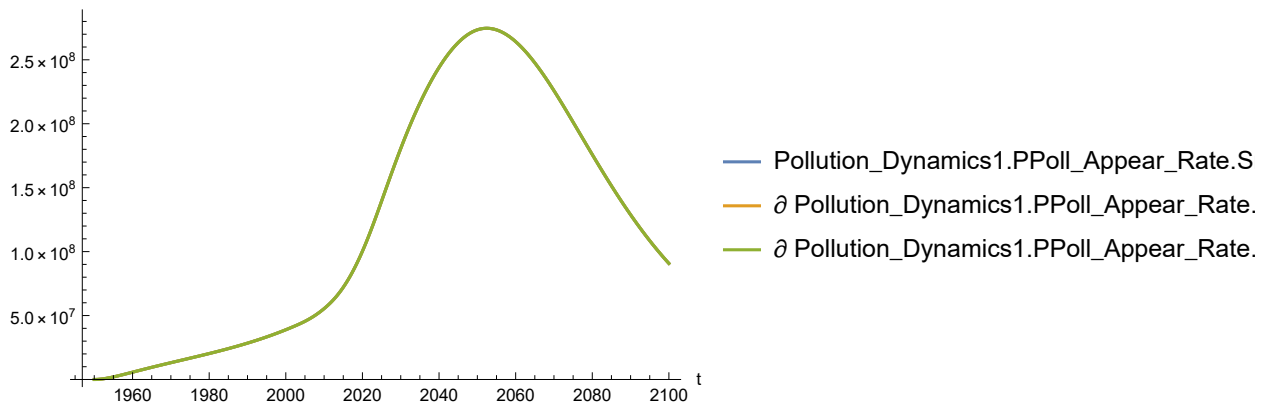
Out[236]=



In[237]:=

```
SystemModelPlot[simsensdata,
  {"Pollution_Dynamics1.PPoll_Appear_Rate.Smooth2.Integrator1.y",
   "Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[7]", percentvar}]
```

Out[237]=

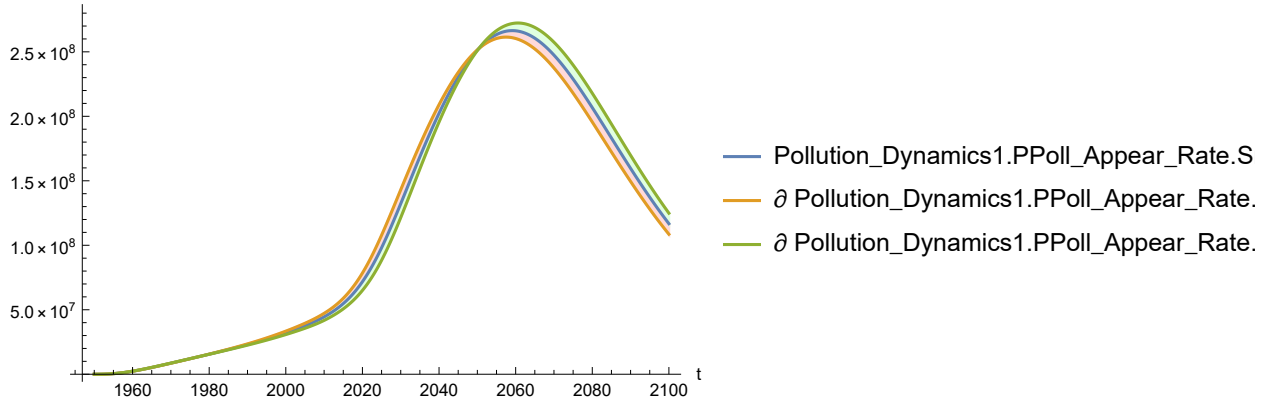


Plot the sensitivity of Pollution_Dynamics1.PPoll_Appear_Rate.Smooth3.Integrator1.y to Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals.

In[238]:=

```
SystemModelPlot[simsensdata,
  {"Pollution_Dynamics1.PPoll_Appear_Rate.Smooth3.Integrator1.y",
   "Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[1]", percentvar}]
```

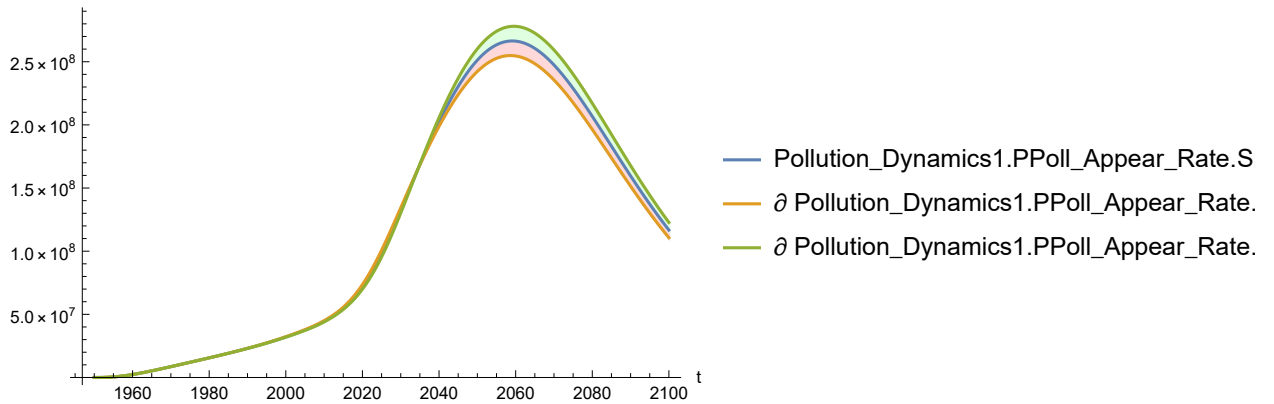
Out[238]=



In[239]:=

```
SystemModelPlot[simsensdata,
  {"Pollution_Dynamics1.PPoll_Appear_Rate.Smooth3.Integrator1.y",
   "Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[2]", percentvar}]
```

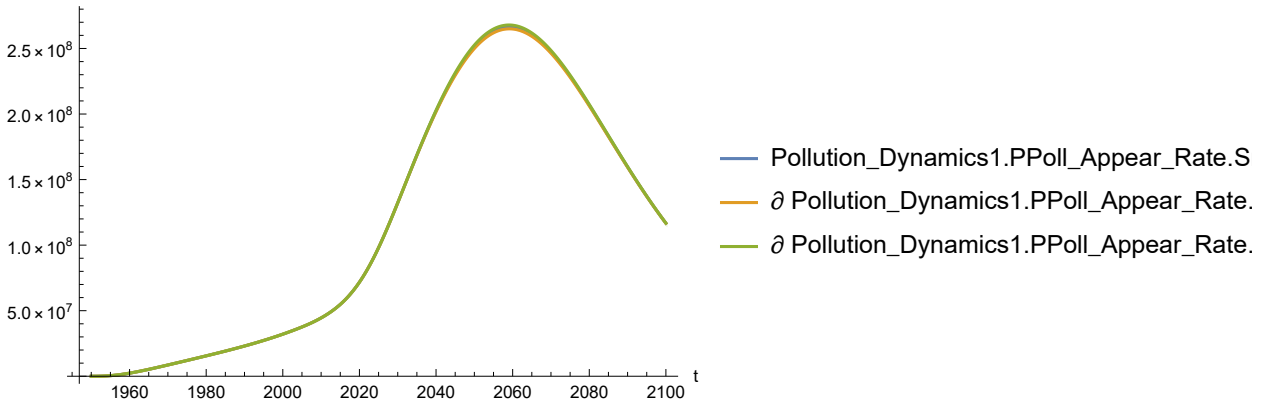
Out[239]=



In[240]:=

```
SystemModelPlot[simsensdata,
  {"Pollution_Dynamics1.PPoll_Appear_Rate.Smooth3.Integrator1.y",
   "Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[3]", percentvar}]
```

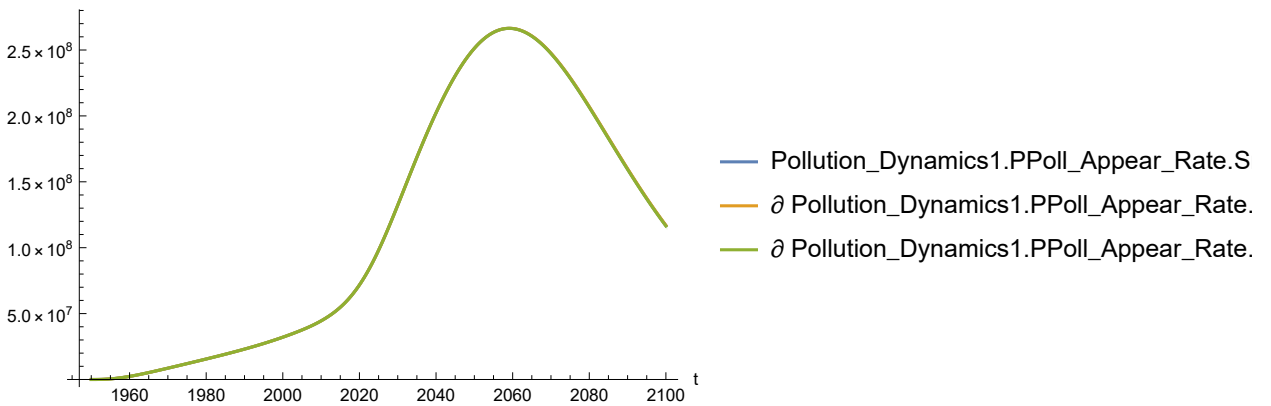
Out[240]=



In[241]:=

```
SystemModelPlot[simsensdata,
  {"Pollution_Dynamics1.PPoll_Appear_Rate.Smooth3.Integrator1.y",
   "Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[4]", percentvar}]
```

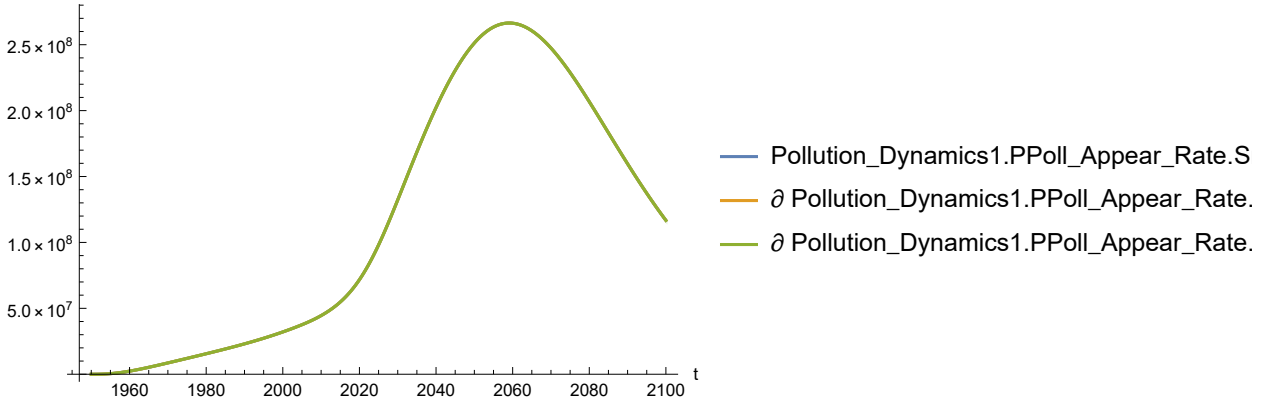
Out[241]=



In[242]:=

```
SystemModelPlot[simsensdata,
  {"Pollution_Dynamics1.PPoll_Appear_Rate.Smooth3.Integrator1.y",
   "Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[5]", percentvar}]
```

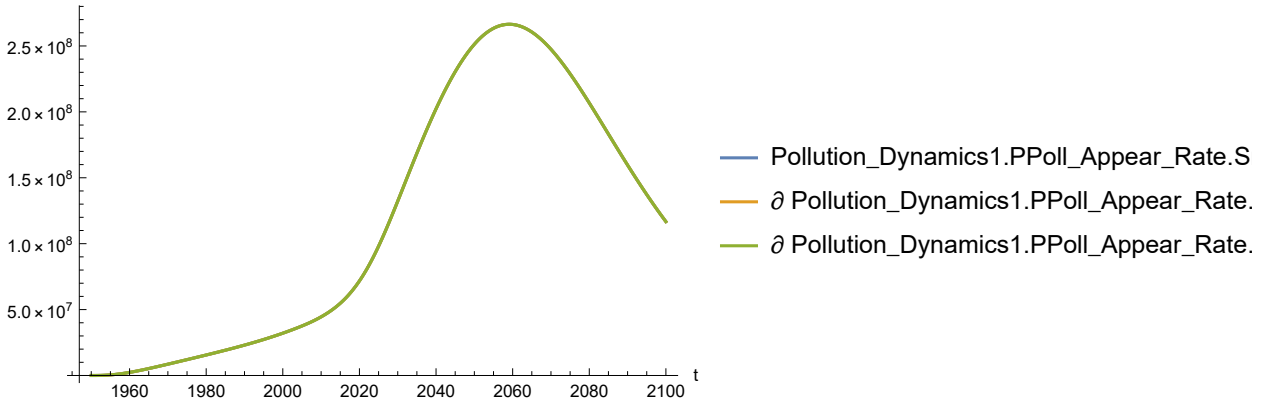
Out[242]=



In[243]:=

```
SystemModelPlot[simsensdata,
  {"Pollution_Dynamics1.PPoll_Appear_Rate.Smooth3.Integrator1.y",
   "Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[6]", percentvar}]
```

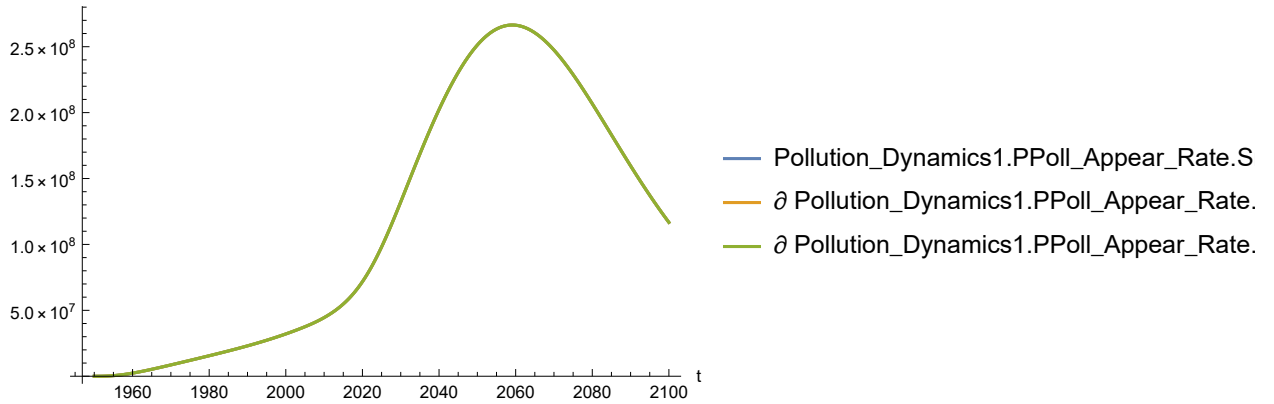
Out[243]=



In[244]:=

```
SystemModelPlot[simsensdata,
  {"Pollution_Dynamics1.PPoll_Appear_Rate.Smooth3.Integrator1.y",
   "Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[7]", percentvar}]
```

Out[244]=

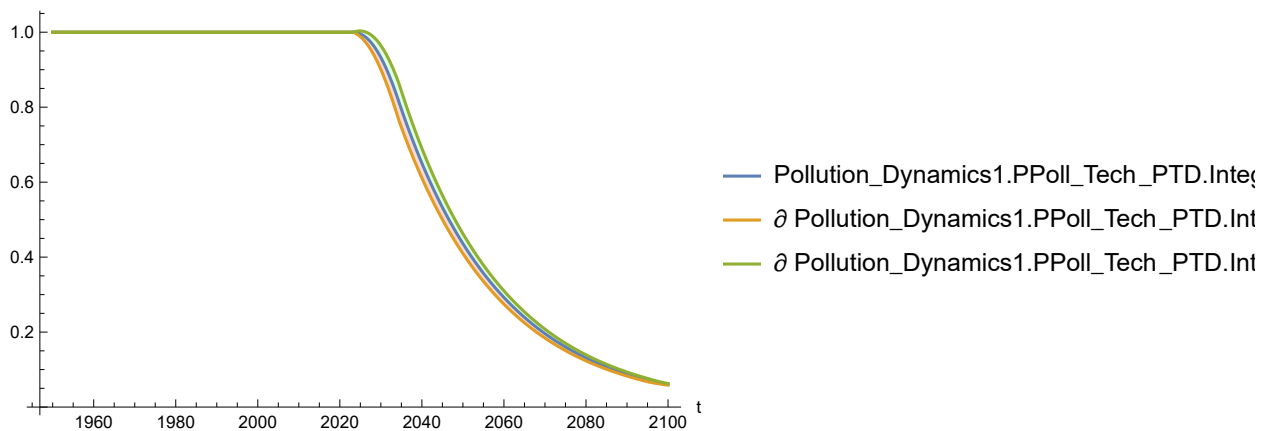


Plot the sensitivity of Pollution_Dynamics1.PPoll_Tech_PTD.Integrator1.y to Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals.

In[245]:=

```
SystemModelPlot[simsensdata, {"Pollution_Dynamics1.PPoll_Tech_PTD.Integrator1.y",
  "Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[1]", percentvar}]
```

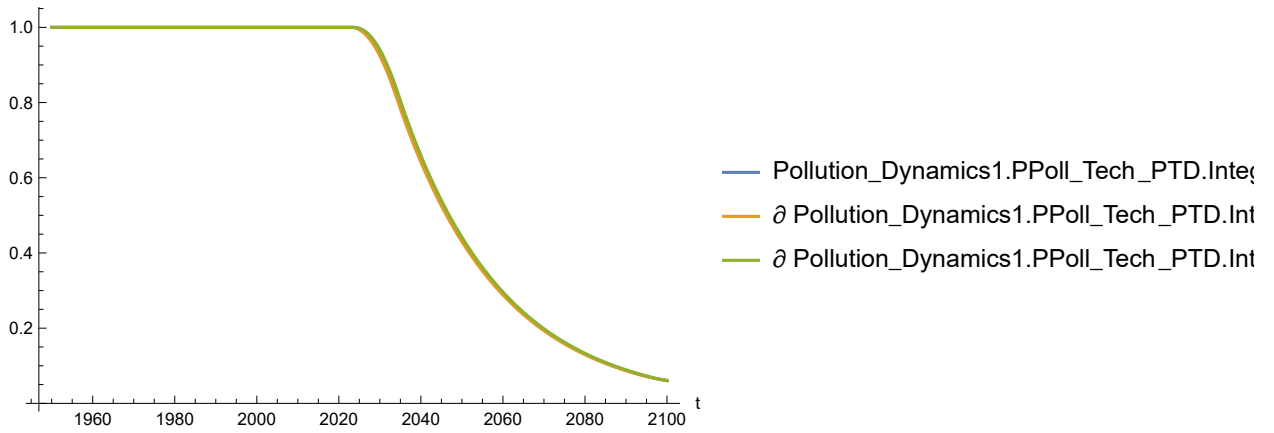
Out[245]=



In[246]:=

```
SystemModelPlot[simsensdata, {"Pollution_Dynamics1.PPoll_Tech_PTD.Integrator1.y",
"Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[2]", percentvar}]
```

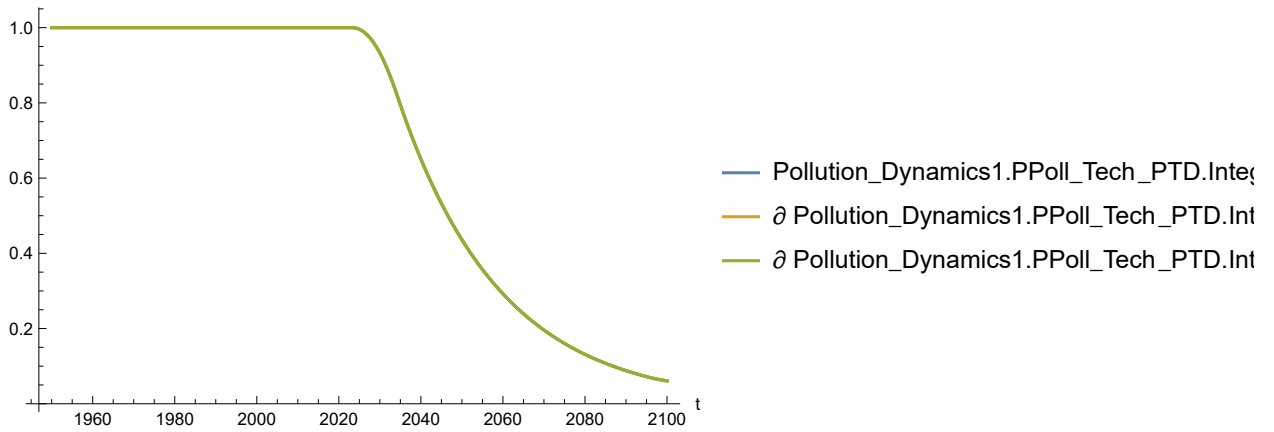
Out[246]=



In[247]:=

```
SystemModelPlot[simsensdata, {"Pollution_Dynamics1.PPoll_Tech_PTD.Integrator1.y",
"Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[3]", percentvar}]
```

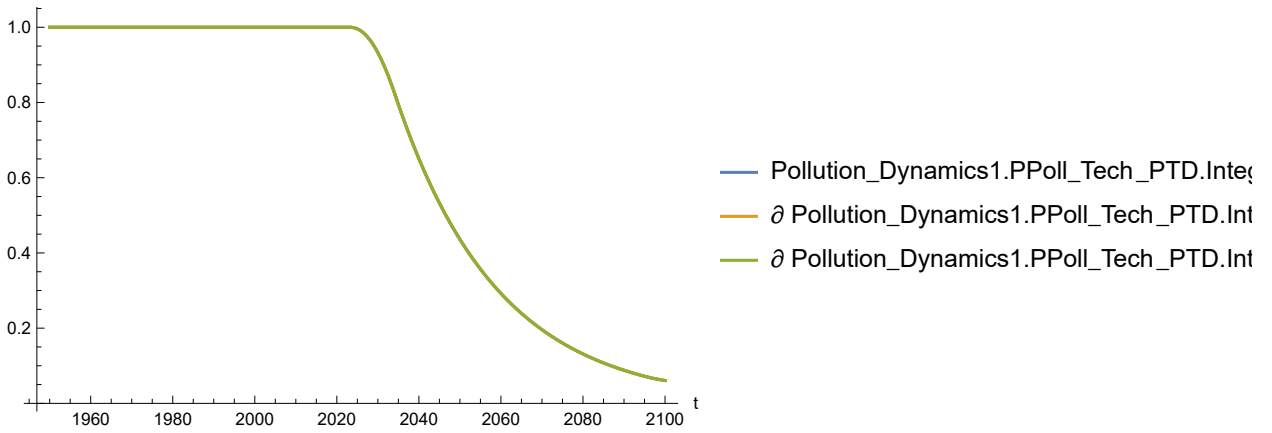
Out[247]=



In[248]:=

```
SystemModelPlot[simsensdata, {"Pollution_Dynamics1.PPoll_Tech_PTD.Integrator1.y",
"Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[4]", percentvar}]
```

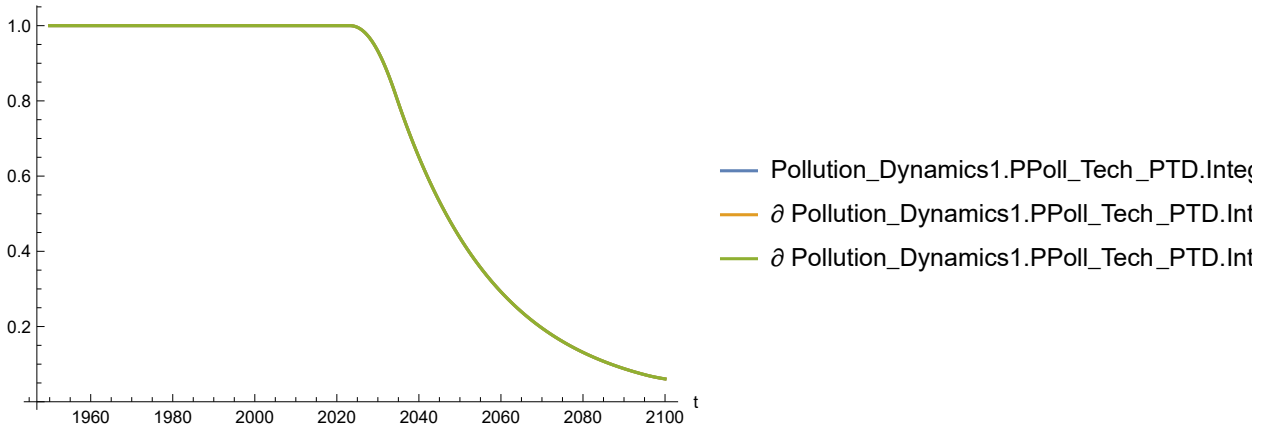
Out[248]:=



In[249]:=

```
SystemModelPlot[simsensdata, {"Pollution_Dynamics1.PPoll_Tech_PTD.Integrator1.y",
"Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[5]", percentvar}]
```

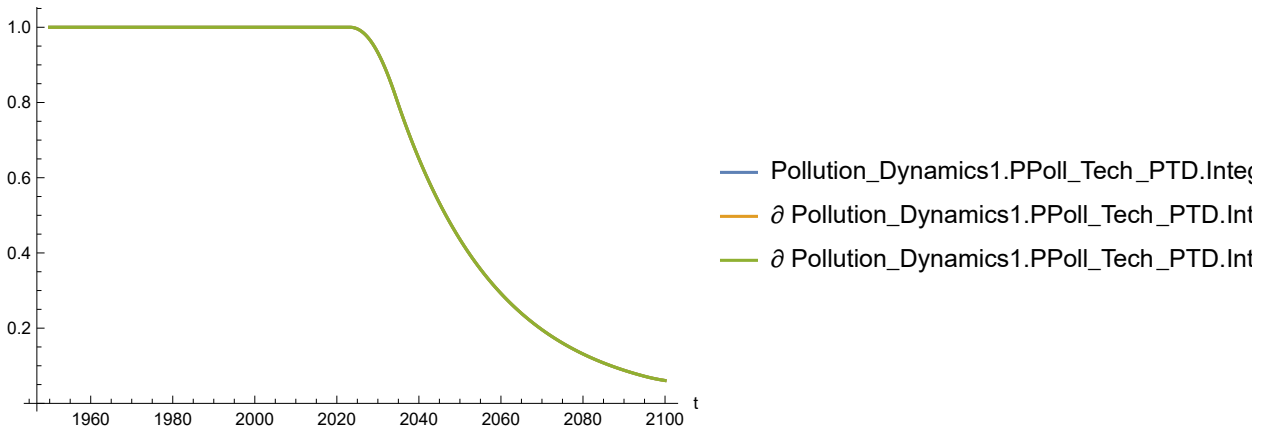
Out[249]:=



In[250]:=

```
SystemModelPlot[simsensdata, {"Pollution_Dynamics1.PPoll_Tech_PTD.Integrator1.y",
"Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[6]", percentvar}]
```

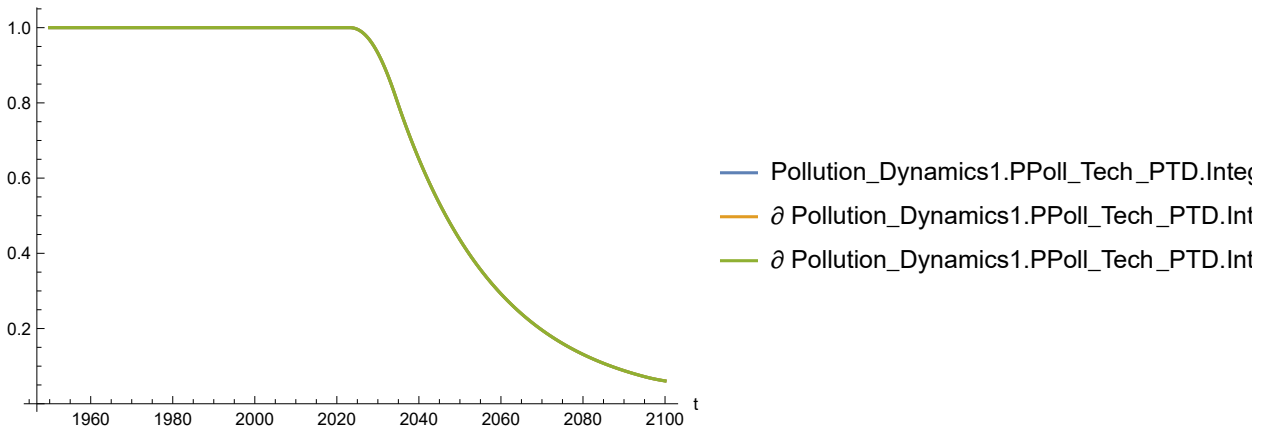
Out[250]=



In[251]:=

```
SystemModelPlot[simsensdata, {"Pollution_Dynamics1.PPoll_Tech_PTD.Integrator1.y",
"Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[7]", percentvar}]
```

Out[251]=

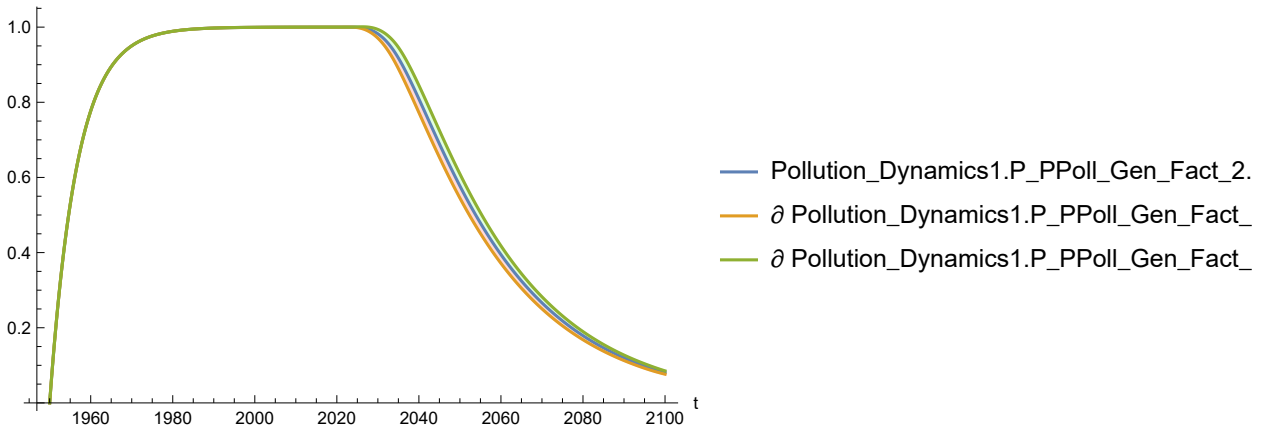


Plot the sensitivity of Pollution_Dynamics1.P_PPoll_Gen_Fact_2.Smooth1.Integrator1.y to Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals.

In[252]:=

```
SystemModelPlot[simsensdata,
  {"Pollution_Dynamics1.P_PPoll_Gen_Fact_2.Smooth1.Integrator1.y",
   "Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[1]", percentvar}]
```

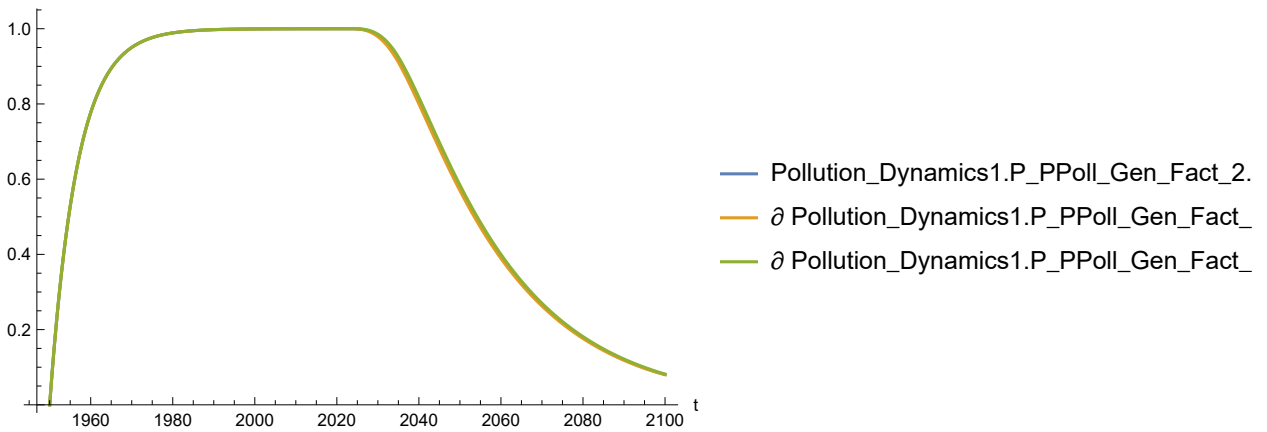
Out[252]=



In[253]:=

```
SystemModelPlot[simsensdata,
  {"Pollution_Dynamics1.P_PPoll_Gen_Fact_2.Smooth1.Integrator1.y",
   "Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[2]", percentvar}]
```

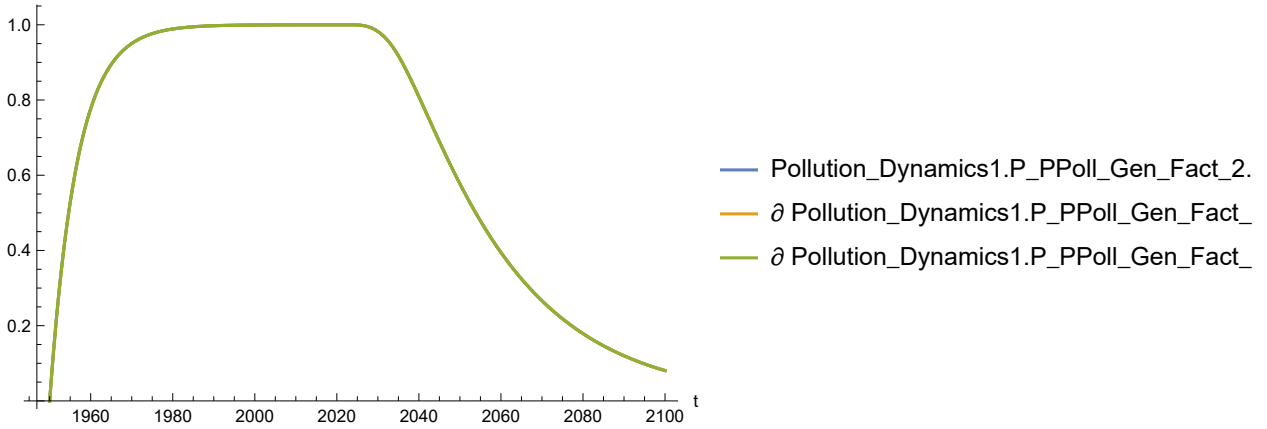
Out[253]=



In[254]:=

```
SystemModelPlot[simsensdata,
  {"Pollution_Dynamics1.P_PPoll_Gen_Fact_2.Smooth1.Integrator1.y",
   "Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[3]", percentvar}]
```

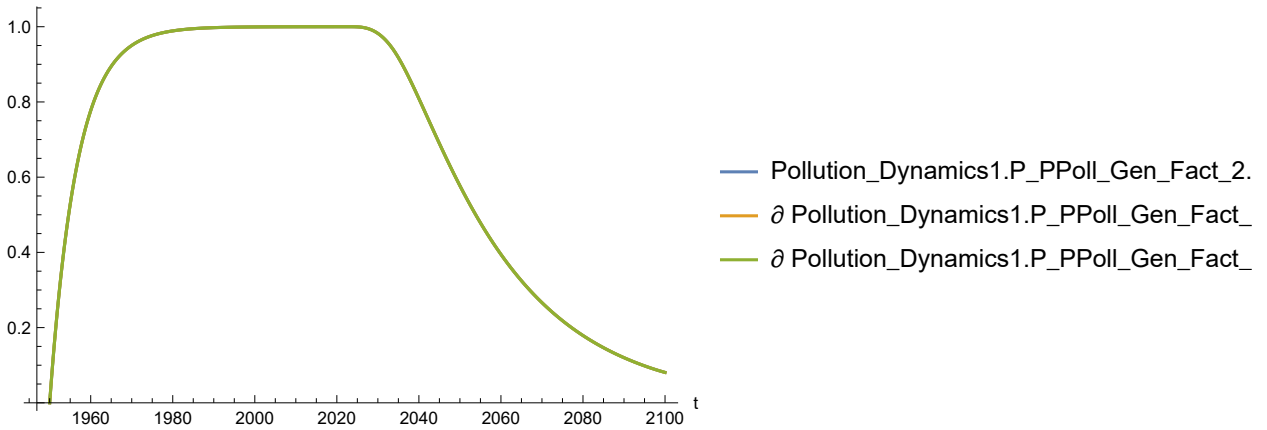
Out[254]=



In[255]:=

```
SystemModelPlot[simsensdata,
  {"Pollution_Dynamics1.P_PPoll_Gen_Fact_2.Smooth1.Integrator1.y",
   "Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[4]", percentvar}]
```

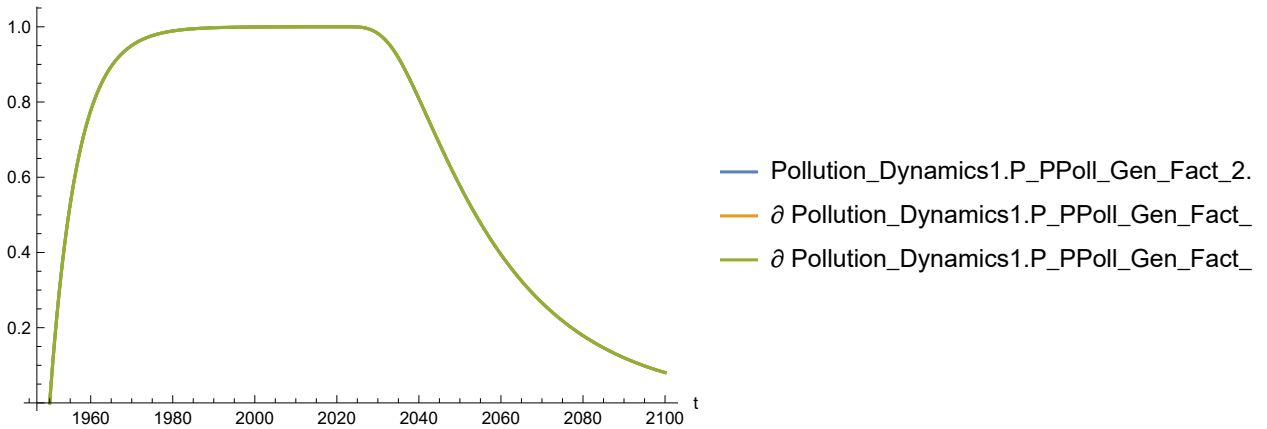
Out[255]=



In[256]:=

```
SystemModelPlot[simsensdata,
  {"Pollution_Dynamics1.P_PPoll_Gen_Fact_2.Smooth1.Integrator1.y",
   "Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[5]", percentvar}]
```

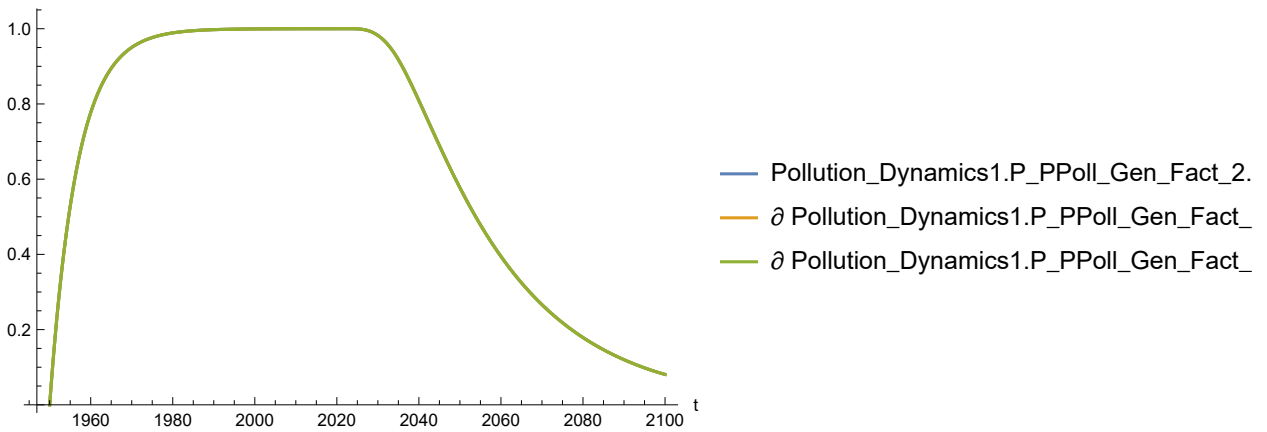
Out[256]=



In[257]:=

```
SystemModelPlot[simsensdata,
  {"Pollution_Dynamics1.P_PPoll_Gen_Fact_2.Smooth1.Integrator1.y",
   "Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[6]", percentvar}]
```

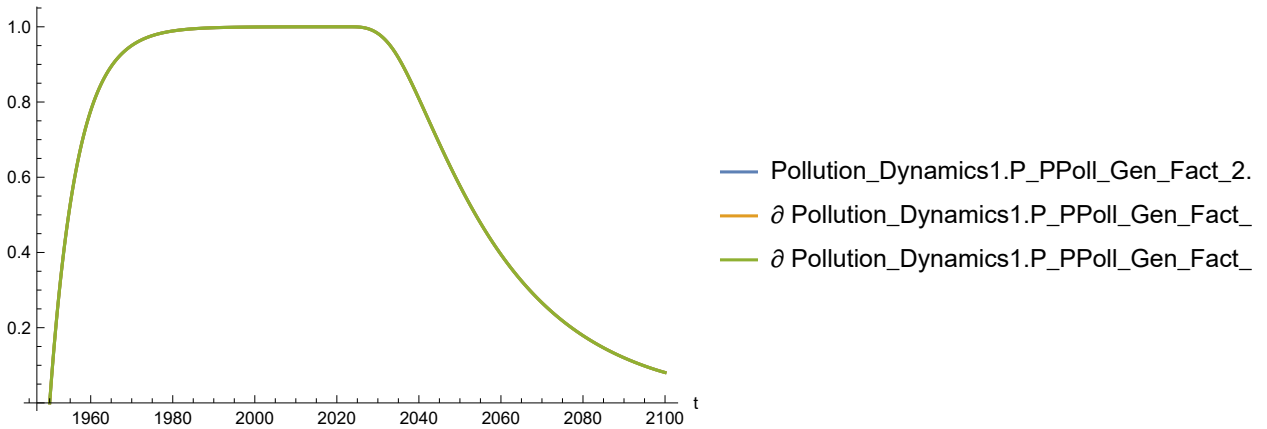
Out[257]=



In[258]:=

```
SystemModelPlot[simsensdata,
  {"Pollution_Dynamics1.P_PPoll_Gen_Fact_2.Smooth1.Integrator1.y",
   "Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[7]", percentvar}]]
```

Out[258]=

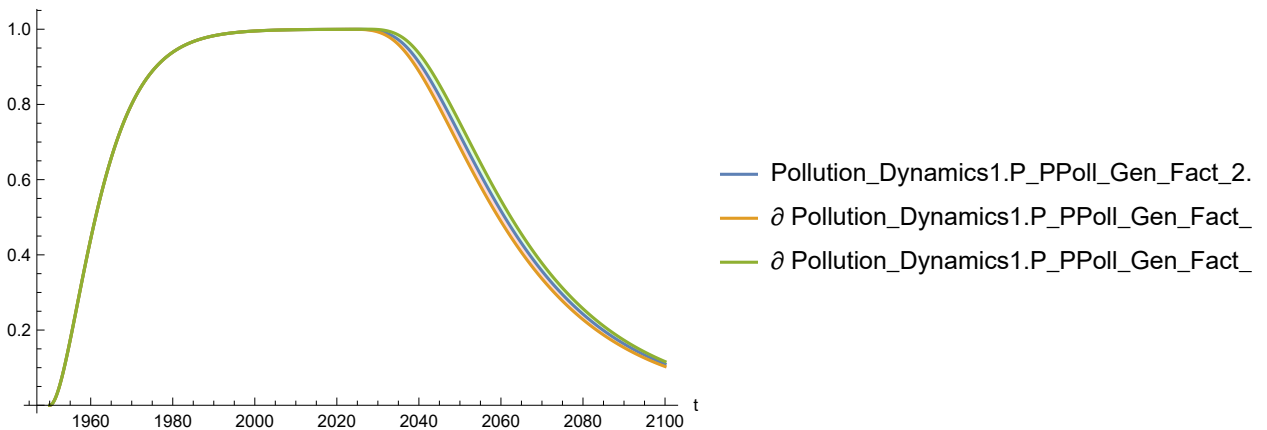


Plot the sensitivity of Pollution_Dynamics1.P_PPoll_Gen_Fact_2.Smooth2.Integrator1.y to Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals.

In[259]:=

```
SystemModelPlot[simsensdata,
  {"Pollution_Dynamics1.P_PPoll_Gen_Fact_2.Smooth2.Integrator1.y",
   "Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[1]", percentvar}]]
```

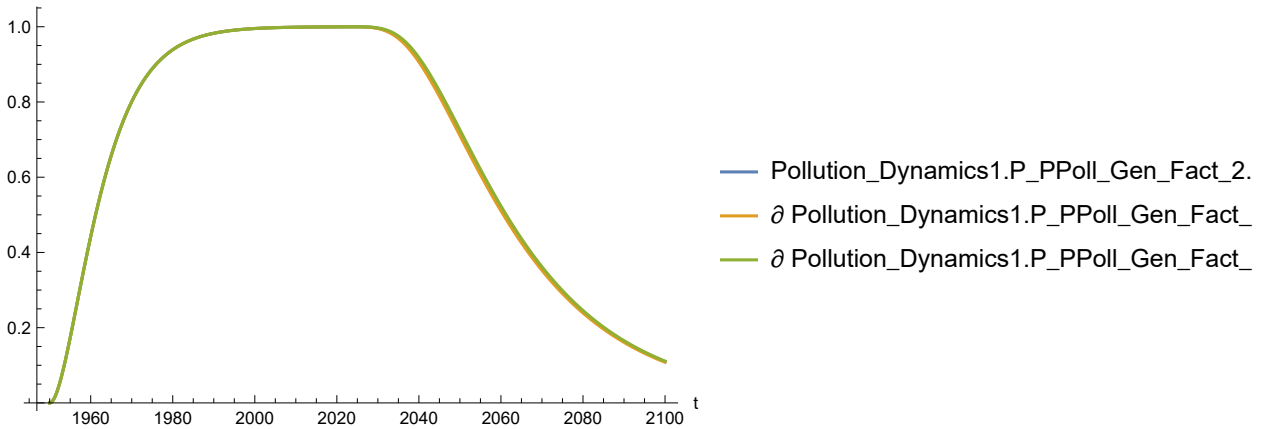
Out[259]=



In[260]:=

```
SystemModelPlot[simsensdata,
  {"Pollution_Dynamics1.P_PPoll_Gen_Fact_2.Smooth2.Integrator1.y",
   "Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[2]", percentvar}]
```

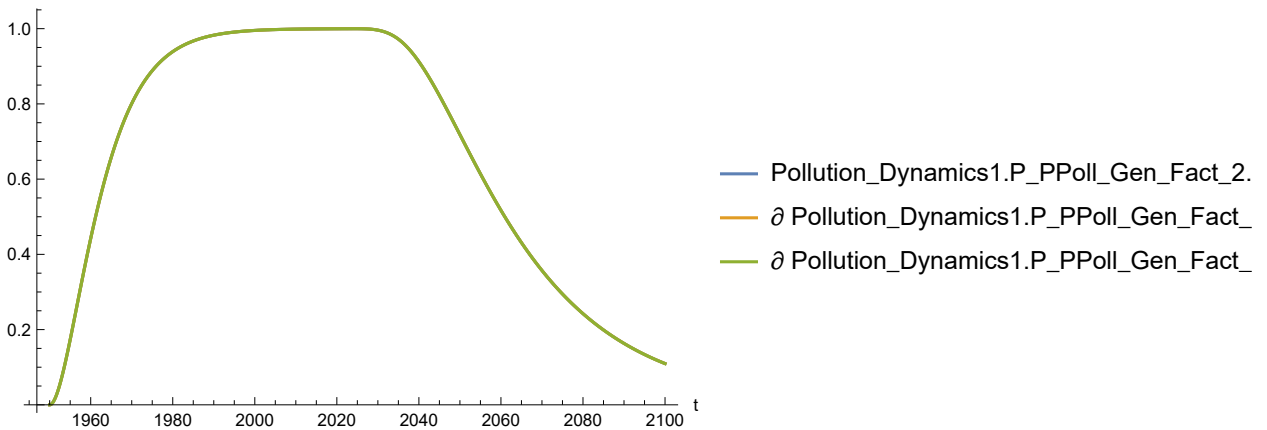
Out[260]=



In[261]:=

```
SystemModelPlot[simsensdata,
  {"Pollution_Dynamics1.P_PPoll_Gen_Fact_2.Smooth2.Integrator1.y",
   "Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[3]", percentvar}]
```

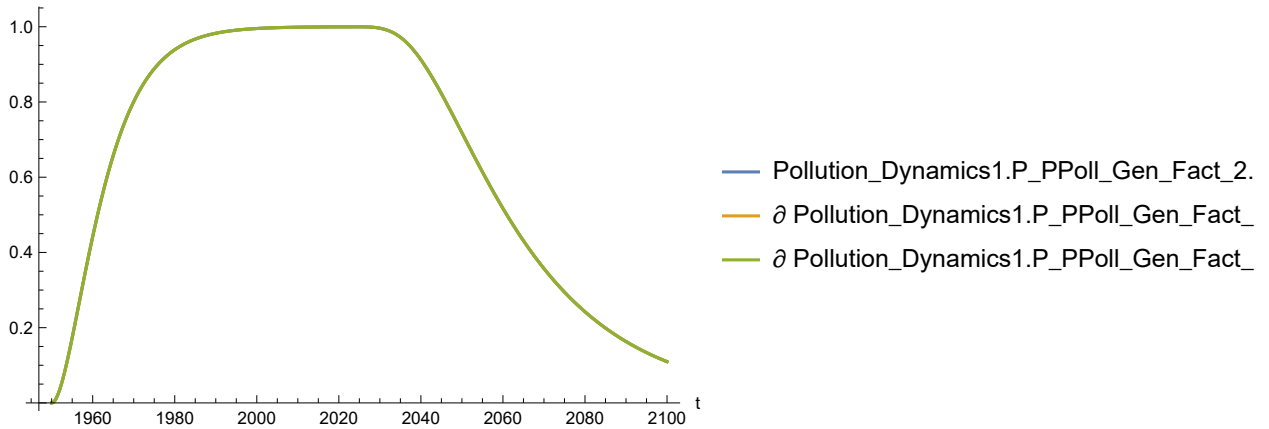
Out[261]=



In[262]:=

```
SystemModelPlot[simsensdata,
  {"Pollution_Dynamics1.P_PPoll_Gen_Fact_2.Smooth2.Integrator1.y",
   "Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[4]", percentvar}]
```

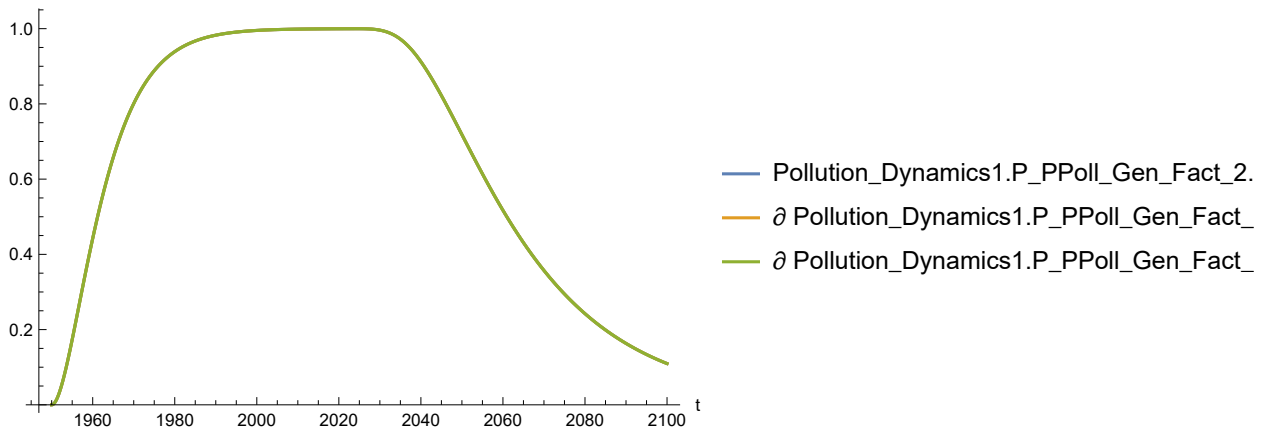
Out[262]=



In[263]:=

```
SystemModelPlot[simsensdata,
  {"Pollution_Dynamics1.P_PPoll_Gen_Fact_2.Smooth2.Integrator1.y",
   "Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[5]", percentvar}]
```

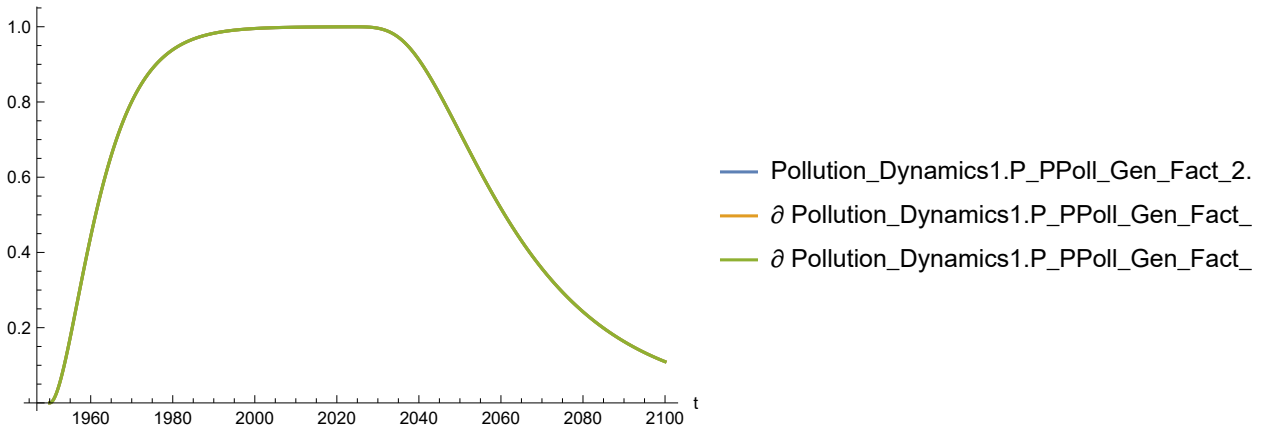
Out[263]=



In[264]:=

```
SystemModelPlot[simsensdata,
  {"Pollution_Dynamics1.P_PPoll_Gen_Fact_2.Smooth2.Integrator1.y",
   "Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[6]", percentvar}]
```

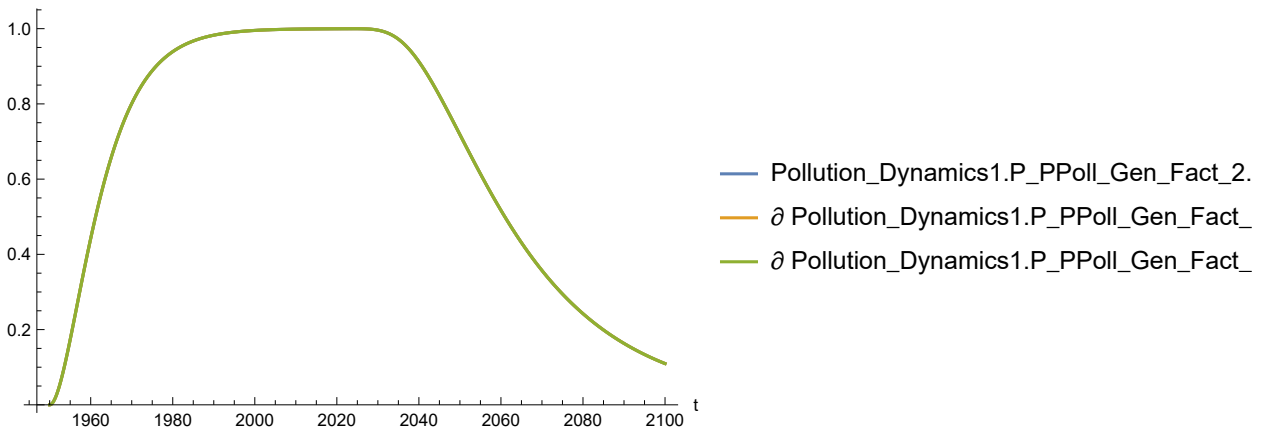
Out[264]=



In[265]:=

```
SystemModelPlot[simsensdata,
  {"Pollution_Dynamics1.P_PPoll_Gen_Fact_2.Smooth2.Integrator1.y",
   "Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[7]", percentvar}]
```

Out[265]=

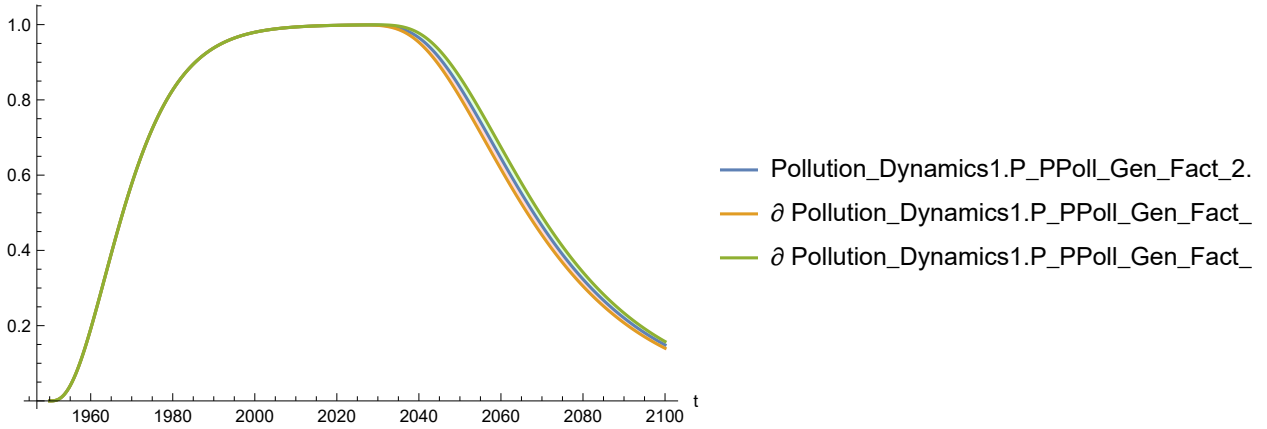


Plot the sensitivity of Pollution_Dynamics1.P_PPoll_Gen_Fact_2.Smooth3.Integrator1.y to Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals.

In[266]:=

```
SystemModelPlot[simsensdata,
  {"Pollution_Dynamics1.P_PPoll_Gen_Fact_2.Smooth3.Integrator1.y",
   "Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[1]", percentvar}]
```

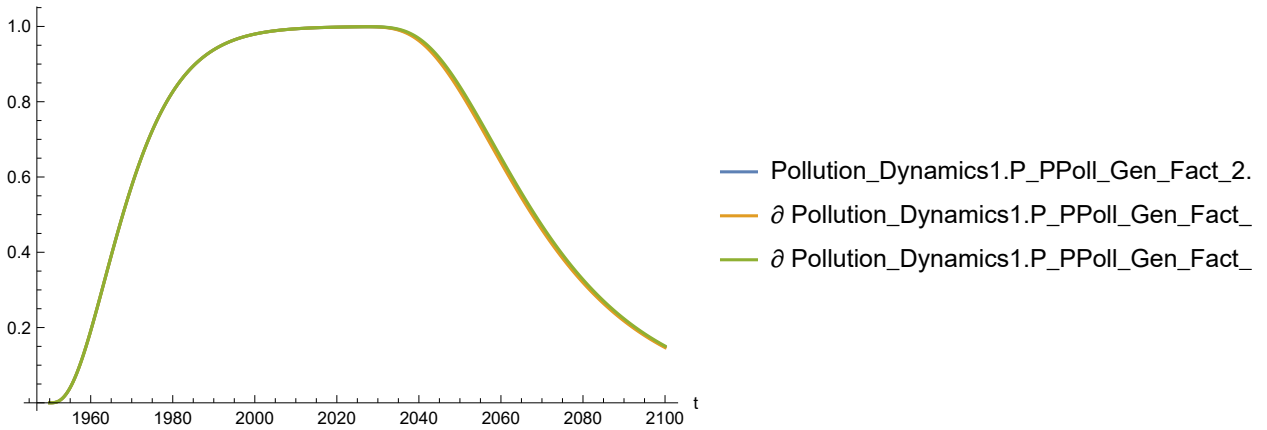
Out[266]=



In[267]:=

```
SystemModelPlot[simsensdata,
  {"Pollution_Dynamics1.P_PPoll_Gen_Fact_2.Smooth3.Integrator1.y",
   "Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[2]", percentvar}]
```

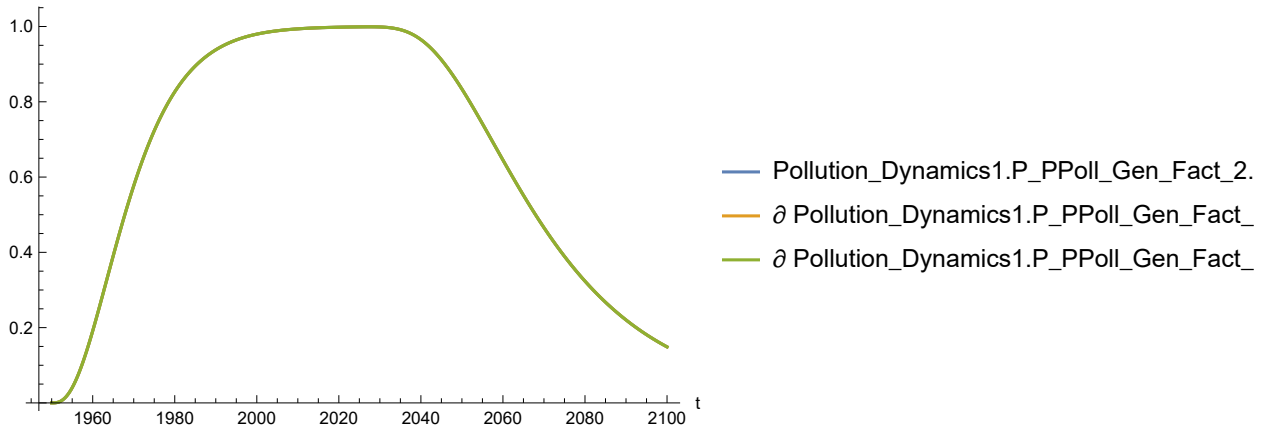
Out[267]=



In[268]:=

```
SystemModelPlot[simsensdata,
  {"Pollution_Dynamics1.P_PPoll_Gen_Fact_2.Smooth3.Integrator1.y",
   "Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[3]", percentvar}]
```

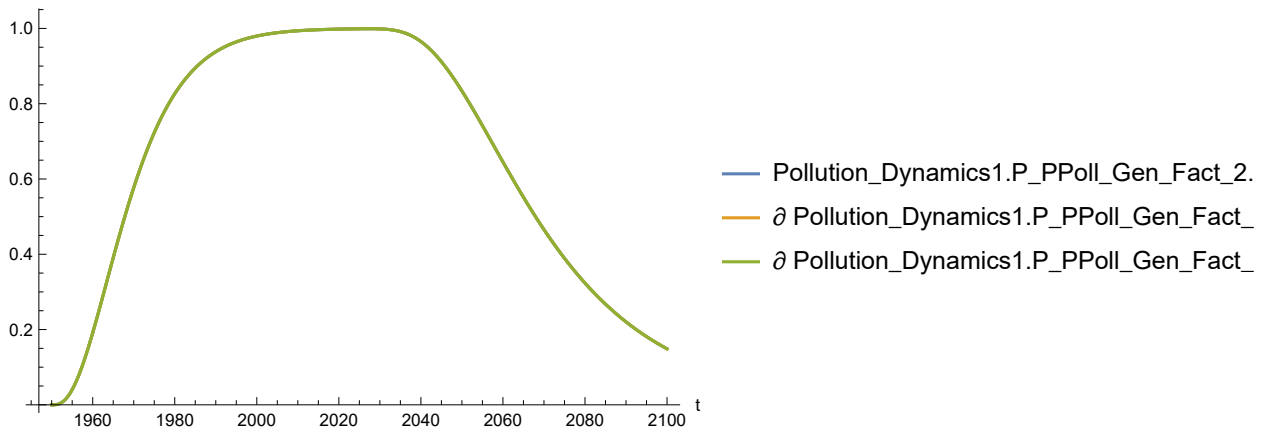
Out[268]=



In[269]:=

```
SystemModelPlot[simsensdata,
  {"Pollution_Dynamics1.P_PPoll_Gen_Fact_2.Smooth3.Integrator1.y",
   "Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[4]", percentvar}]
```

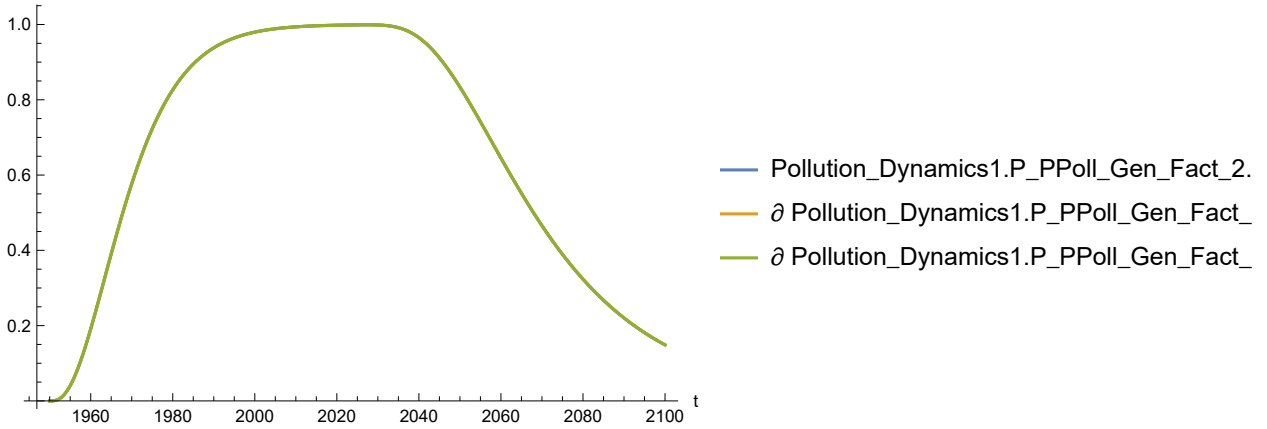
Out[269]=



In[270]:=

```
SystemModelPlot[simsensdata,
  {"Pollution_Dynamics1.P_PPoll_Gen_Fact_2.Smooth3.Integrator1.y",
   "Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[5]", percentvar}]
```

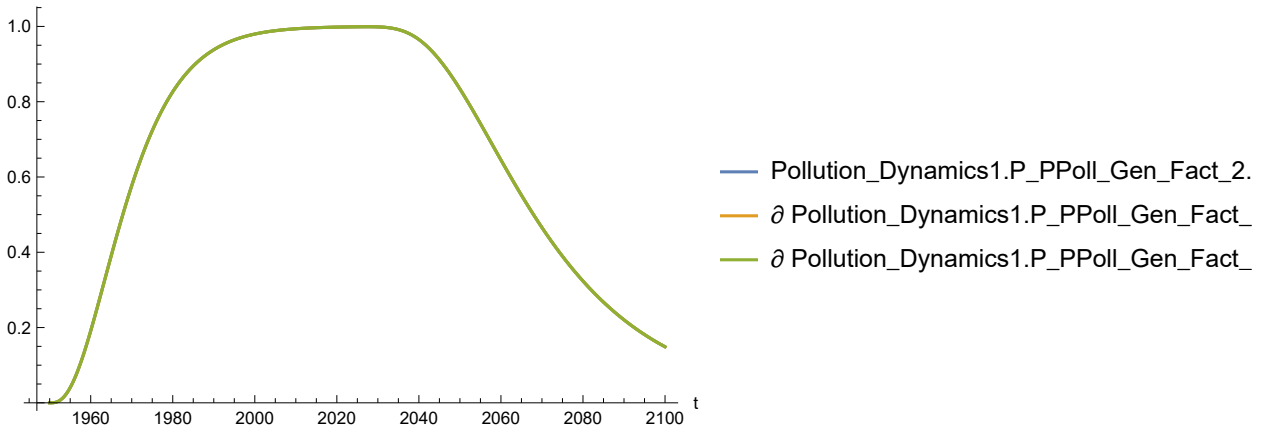
Out[270]=



In[271]:=

```
SystemModelPlot[simsensdata,
  {"Pollution_Dynamics1.P_PPoll_Gen_Fact_2.Smooth3.Integrator1.y",
   "Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[6]", percentvar}]
```

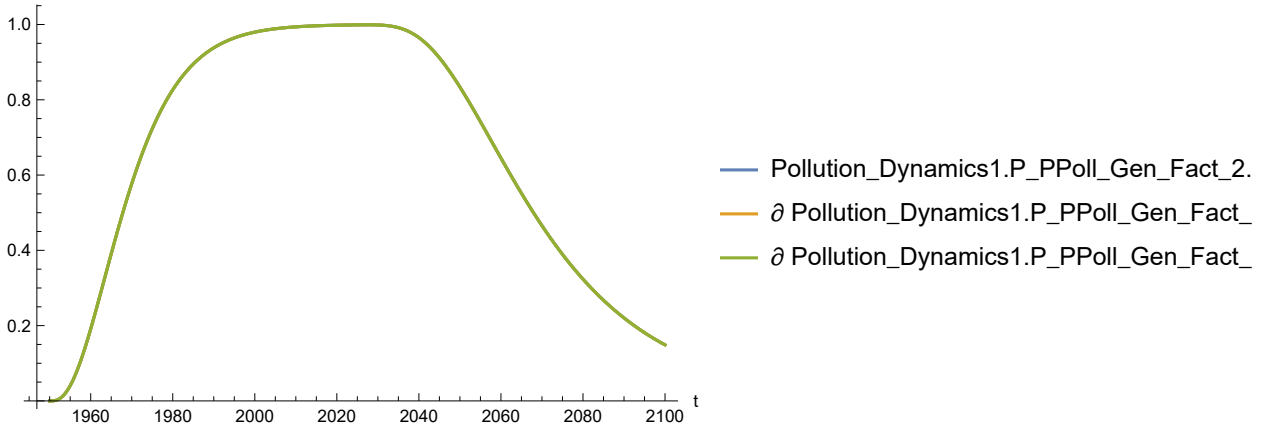
Out[271]=



In[272]:=

```
SystemModelPlot[simsensdata,
  {"Pollution_Dynamics1.P_PPoll_Gen_Fact_2.Smooth3.Integrator1.y",
   "Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[7]", percentvar}]
```

Out[272]=

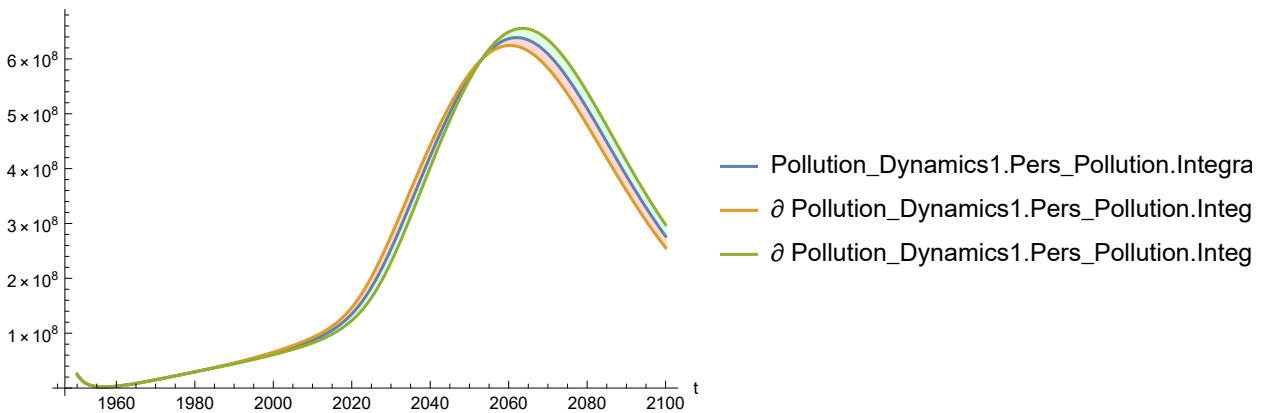


Plot the sensitivity of Pollution_Dynamics1.Pers_Pollution.Integrator1.y to Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[1].

In[273]:=

```
SystemModelPlot[simsensdata, {"Pollution_Dynamics1.Pers_Pollution.Integrator1.y",
  "Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[1]", percentvar}]
```

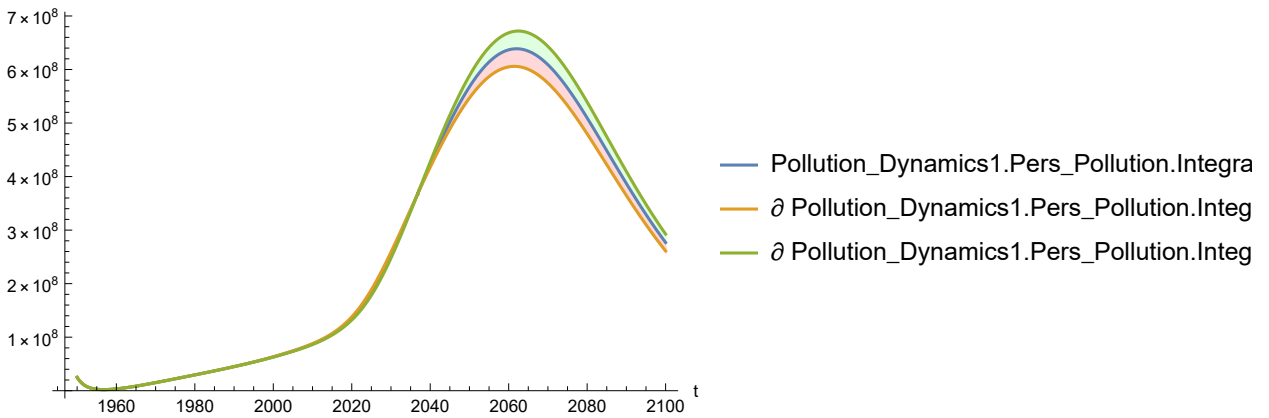
Out[273]=



In[274]:=

```
SystemModelPlot[simsensdata, {"Pollution_Dynamics1.Pers_Pollution.Integrator1.y",
"Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[2]", percentvar}]
```

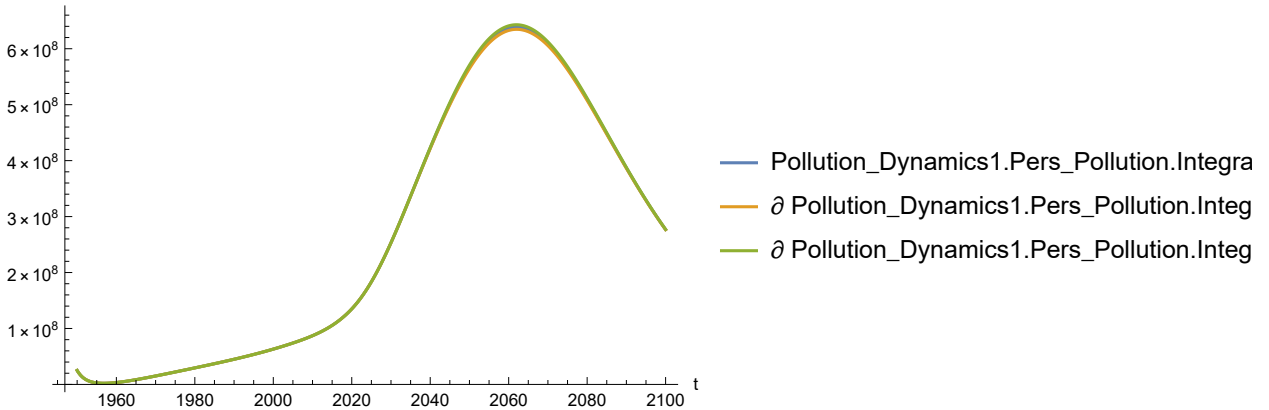
Out[274]=



In[275]:=

```
SystemModelPlot[simsensdata, {"Pollution_Dynamics1.Pers_Pollution.Integrator1.y",
"Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[3]", percentvar}]
```

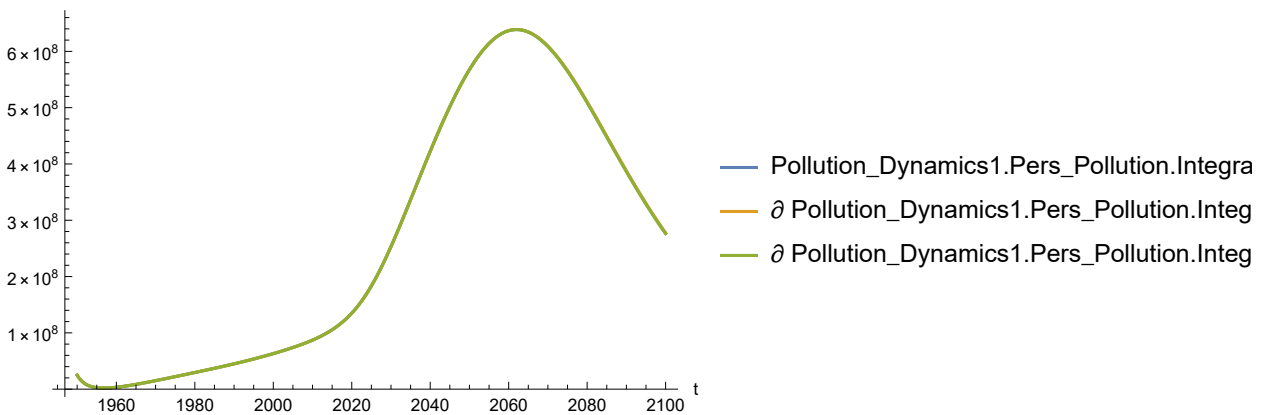
Out[275]=



In[276]:=

```
SystemModelPlot[simsensdata, {"Pollution_Dynamics1.Pers_Pollution.Integrator1.y",
"Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[4]", percentvar}]
```

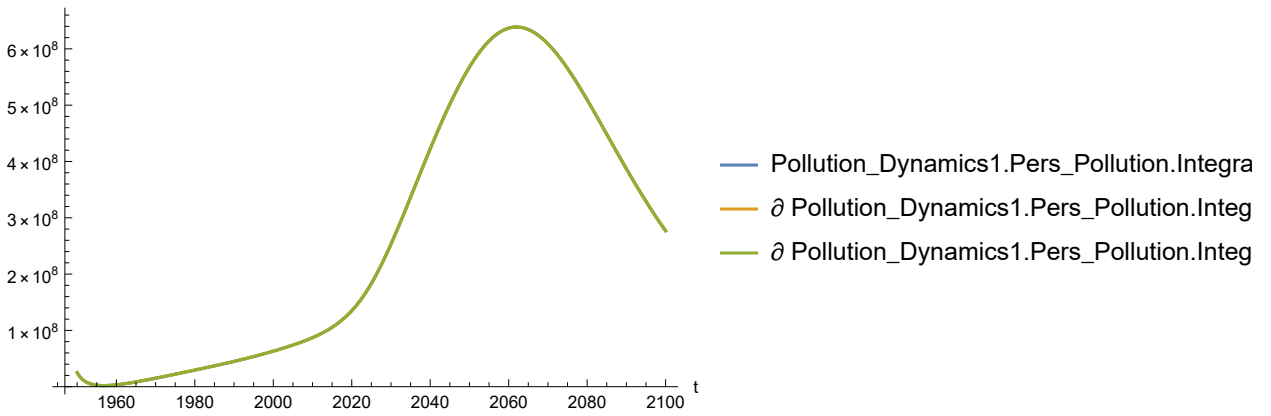
Out[276]=



In[277]:=

```
SystemModelPlot[simsensdata, {"Pollution_Dynamics1.Pers_Pollution.Integrator1.y",
"Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[5]", percentvar}]
```

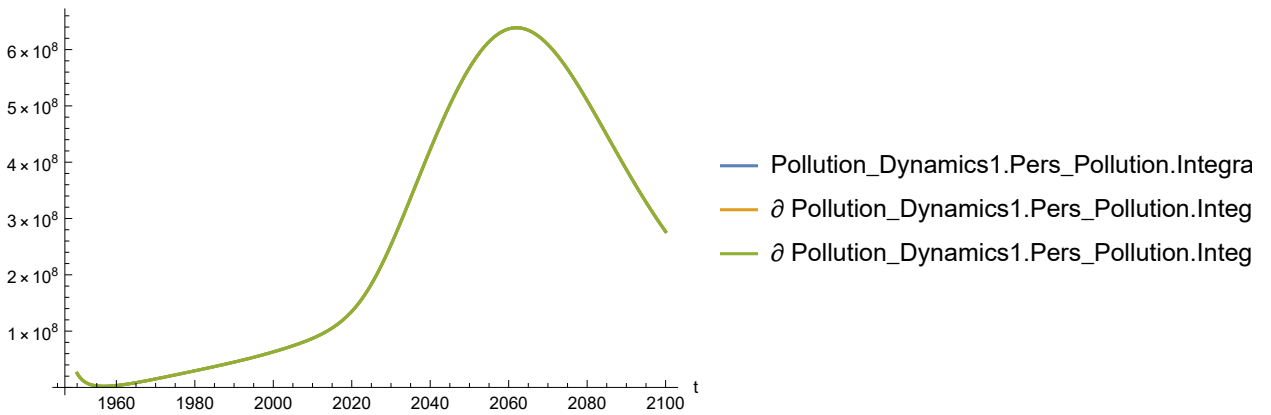
Out[277]:=



In[278]:=

```
SystemModelPlot[simsensdata, {"Pollution_Dynamics1.Pers_Pollution.Integrator1.y",
"Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[6]", percentvar}]
```

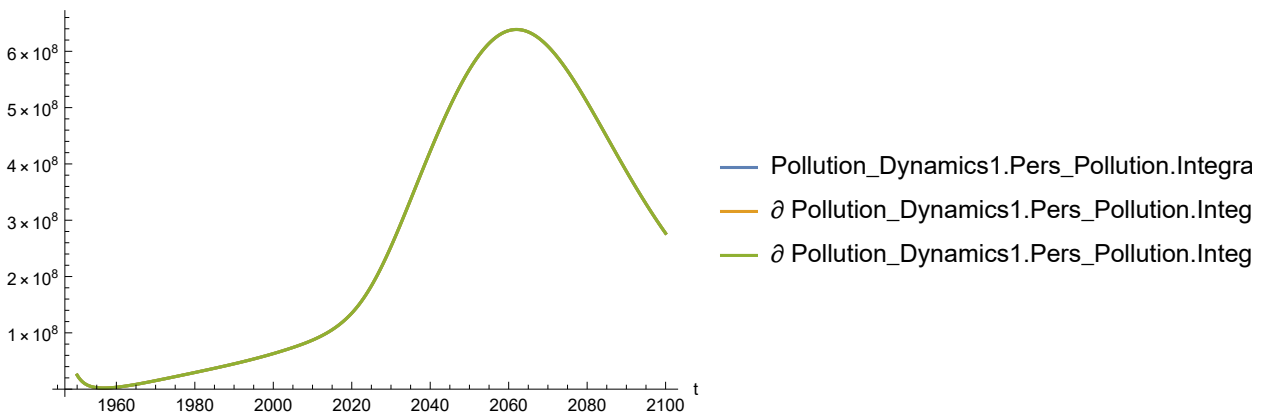
Out[278]:=



In[279]:=

```
SystemModelPlot[simsensdata, {"Pollution_Dynamics1.Pers_Pollution.Integrator1.y",
"Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[7]", percentvar}]
```

Out[279]:=

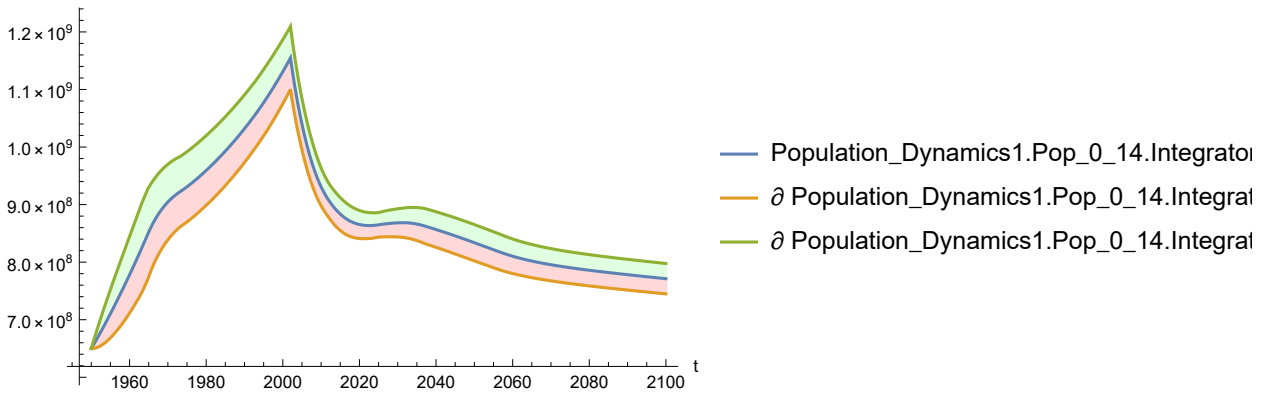


Plot sensitivity of population to **Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals**. In World3, population is divided into four subpopulations by age: 0-14 years, 15-44 years, 45-64 years, and 65 year and over.

In[280]:=

```
SystemModelPlot[simsensdata, {"Population_Dynamics1.Pop_0_14.Integrator1.y",
"Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[1]", percentvar}]
```

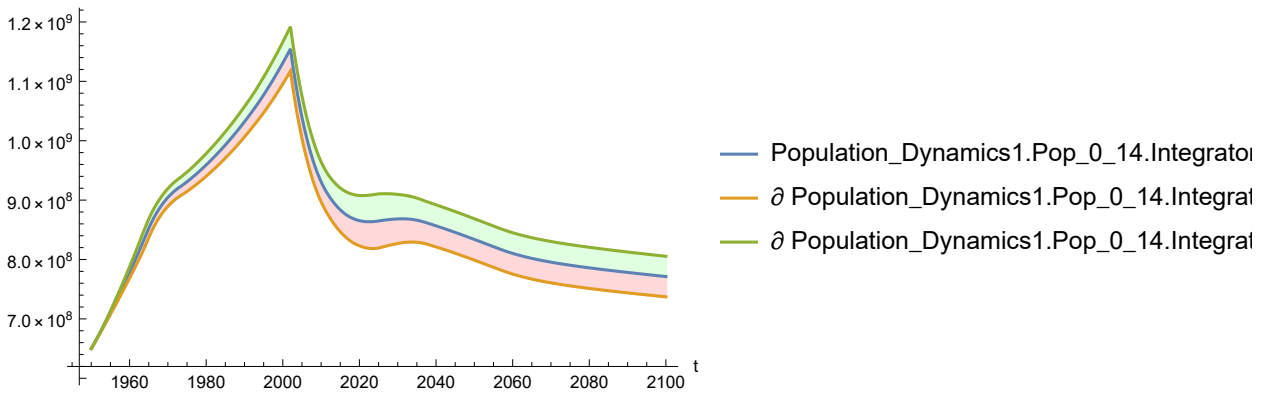
Out[280]=



In[281]:=

```
SystemModelPlot[simsensdata, {"Population_Dynamics1.Pop_0_14.Integrator1.y",
"Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[2]", percentvar}]
```

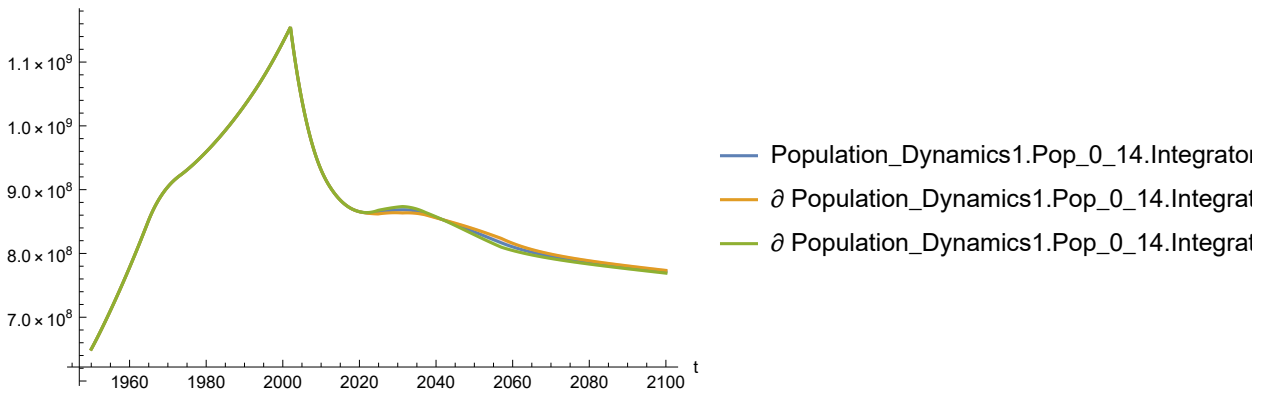
Out[281]=



In[282]:=

```
SystemModelPlot[simsensdata, {"Population_Dynamics1.Pop_0_14.Integrator1.y",
"Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[3]", percentvar}]
```

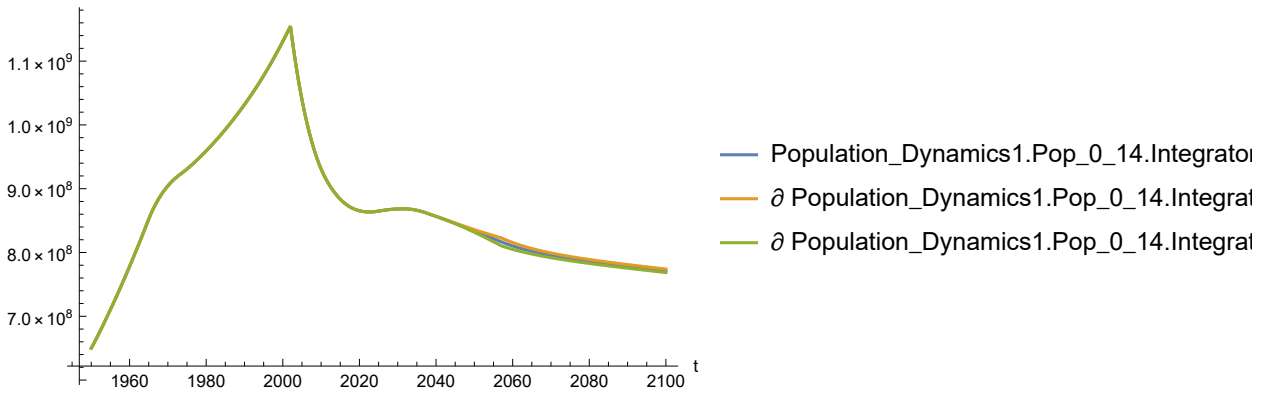
Out[282]=



In[283]:=

```
SystemModelPlot[simsensdata, {"Population_Dynamics1.Pop_0_14.Integrator1.y",
"Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[4]", percentvar}]
```

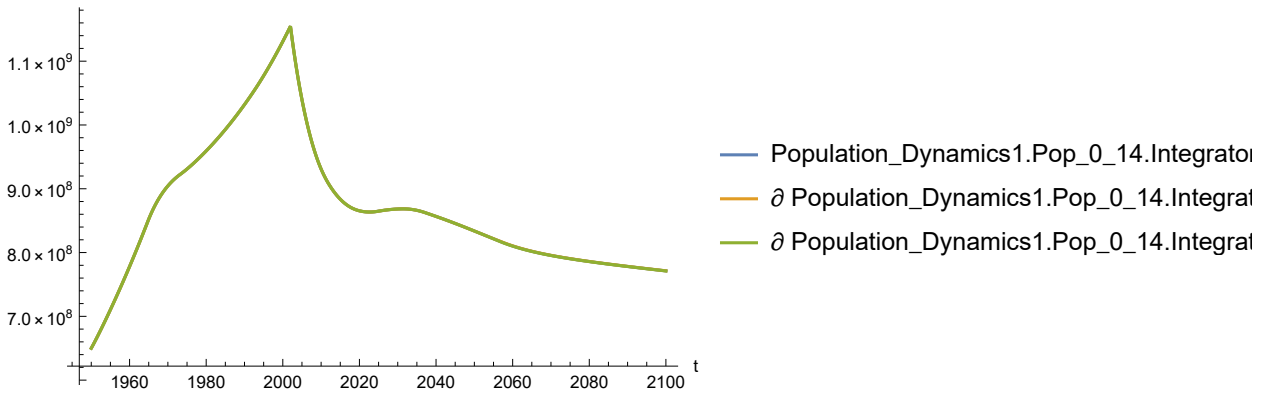
Out[283]=



In[284]:=

```
SystemModelPlot[simsensdata, {"Population_Dynamics1.Pop_0_14.Integrator1.y",
"Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[5]", percentvar}]
```

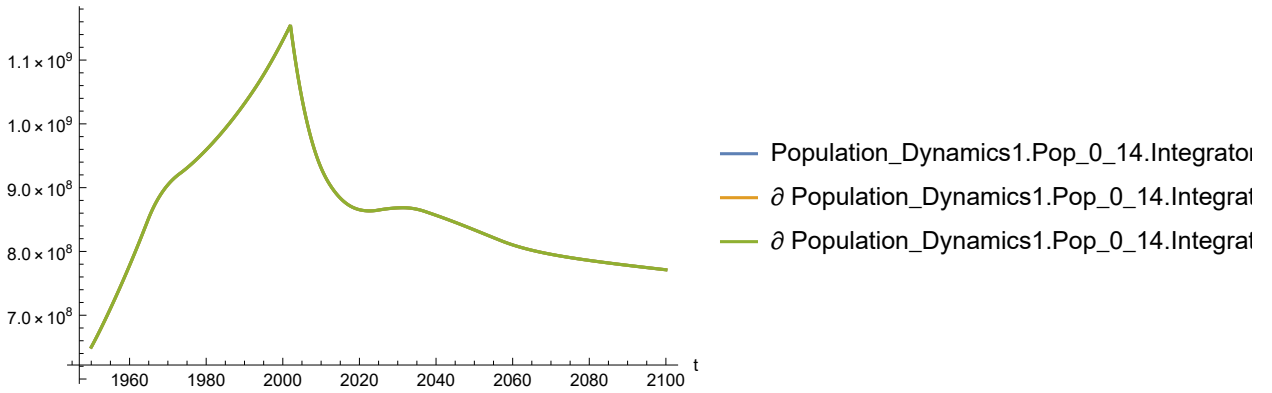
Out[284]=



In[285]:=

```
SystemModelPlot[simsensdata, {"Population_Dynamics1.Pop_0_14.Integrator1.y",
"Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[6]", percentvar}]
```

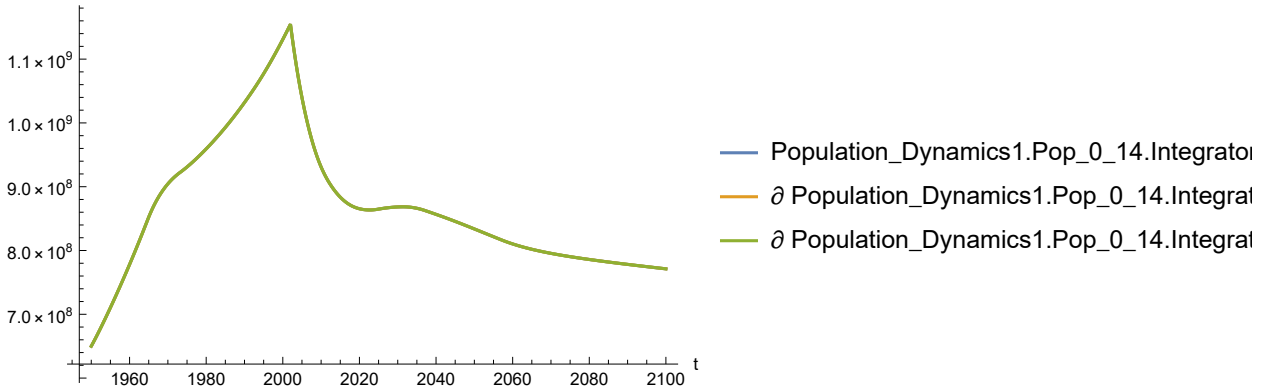
Out[285]=



In[286]:=

```
SystemModelPlot[simsensdata, {"Population_Dynamics1.Pop_0_14.Integrator1.y",
"Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[7]", percentvar}]
```

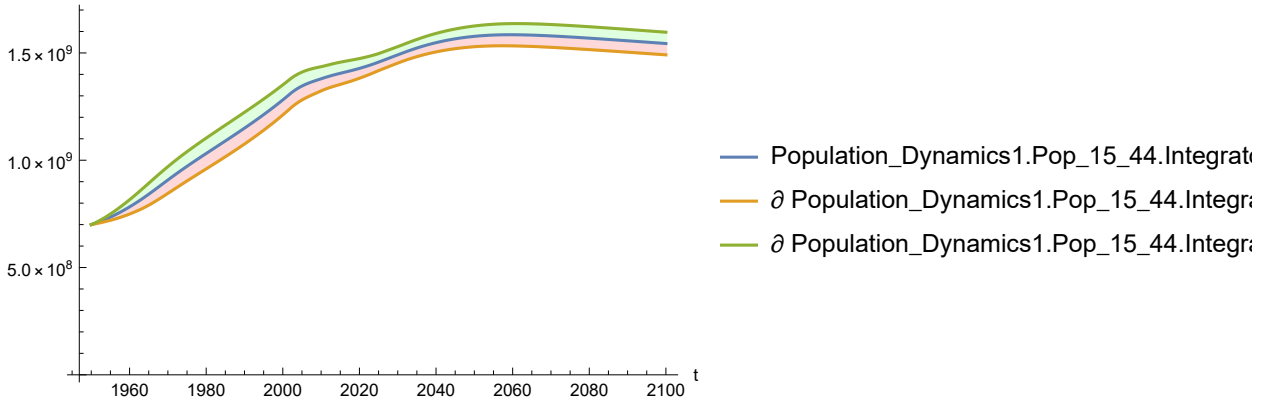
Out[286]=



In[287]:=

```
SystemModelPlot[simsensdata, {"Population_Dynamics1.Pop_15_44.Integrator1.y",
"Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[1]", percentvar}]
```

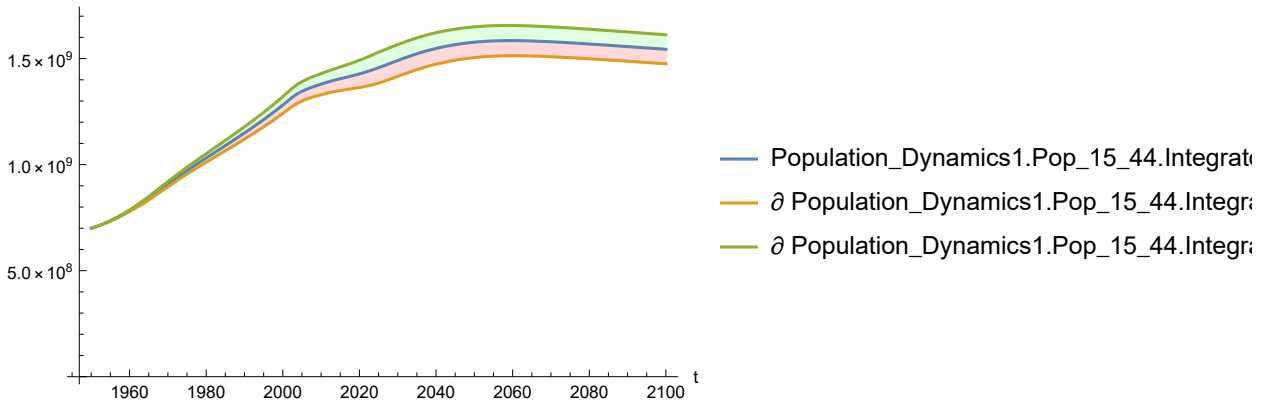
Out[287]=



In[288]:=

```
SystemModelPlot[simsensdata, {"Population_Dynamics1.Pop_15_44.Integrator1.y",
"Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[2]", percentvar}]
```

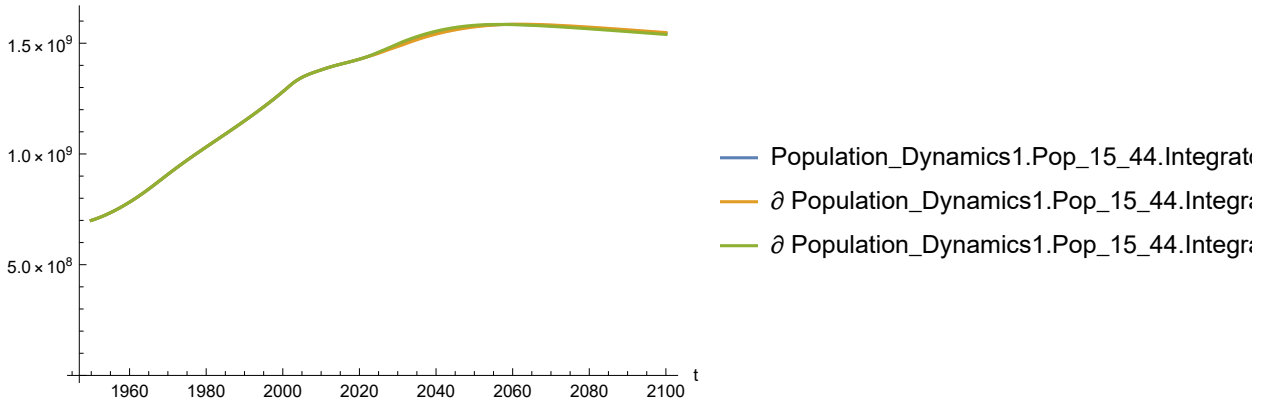
Out[288]=



In[289]:=

```
SystemModelPlot[simsensdata, {"Population_Dynamics1.Pop_15_44.Integrator1.y",
"Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[3]", percentvar}]
```

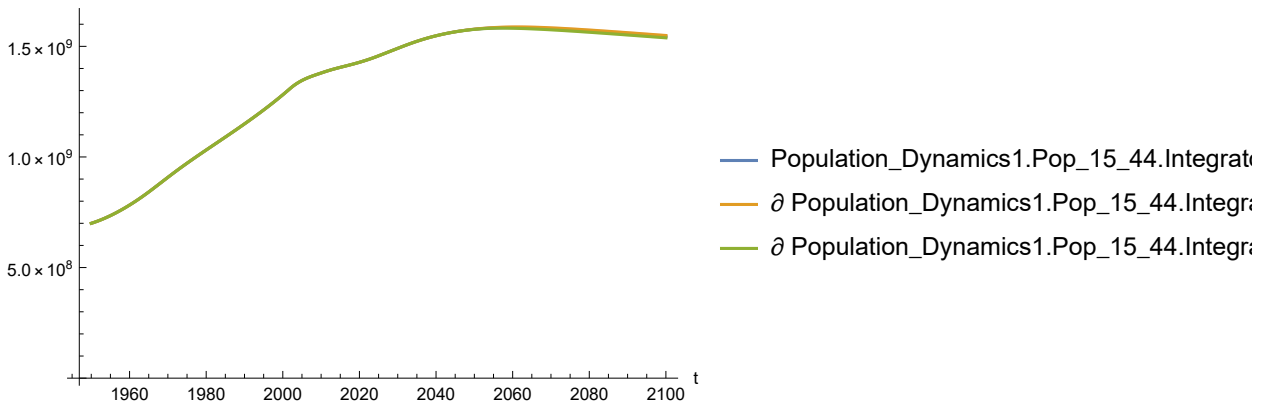
Out[289]=



In[290]:=

```
SystemModelPlot[simsensdata, {"Population_Dynamics1.Pop_15_44.Integrator1.y",
"Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[4]", percentvar}]
```

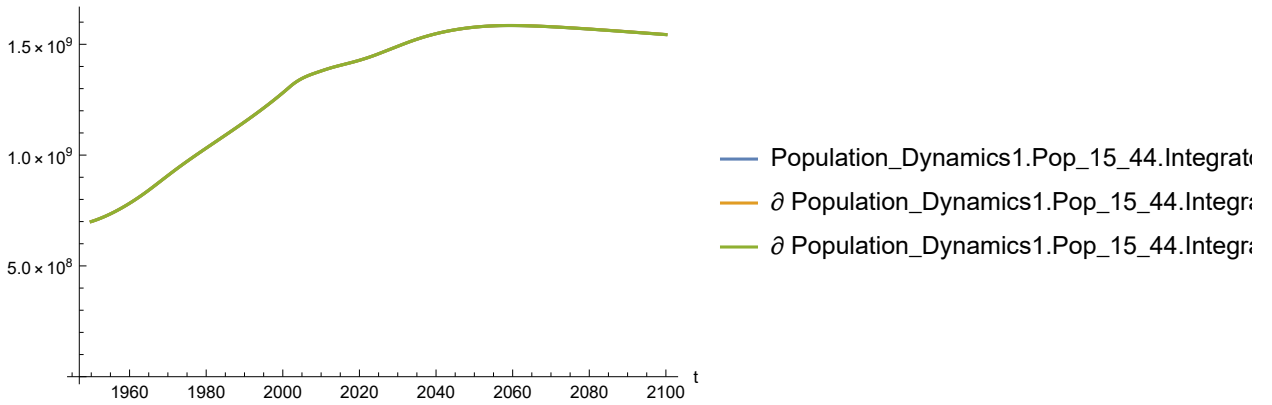
Out[290]=



In[291]:=

```
SystemModelPlot[simsensdata, {"Population_Dynamics1.Pop_15_44.Integrator1.y",
"Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[5]", percentvar}]
```

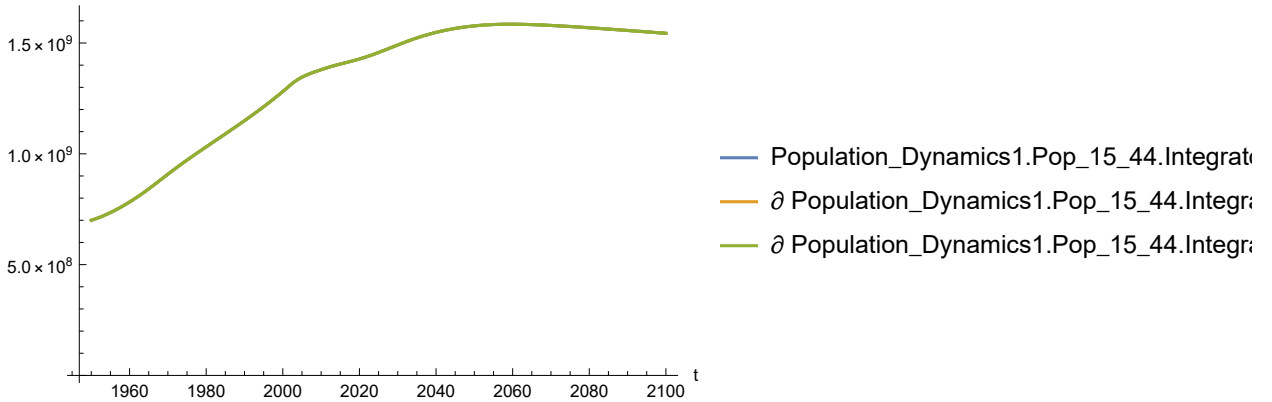
Out[291]=



In[292]:=

```
SystemModelPlot[simsensdata, {"Population_Dynamics1.Pop_15_44.Integrator1.y",
"Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[6]", percentvar}]
```

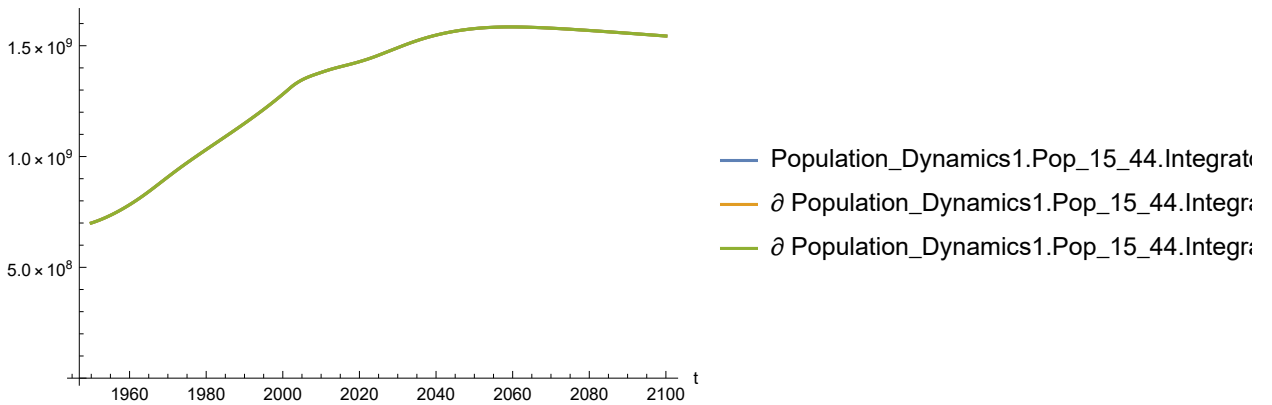
Out[292]=



In[293]:=

```
SystemModelPlot[simsensdata, {"Population_Dynamics1.Pop_15_44.Integrator1.y",
"Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[7]", percentvar}]
```

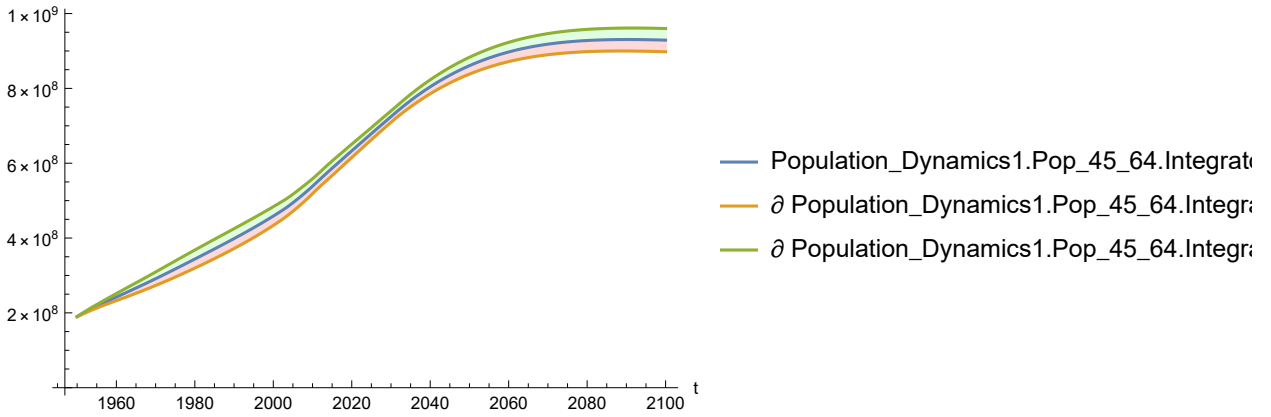
Out[293]=



In[294]:=

```
SystemModelPlot[simsensdata, {"Population_Dynamics1.Pop_45_64.Integrator1.y",
"Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[1]", percentvar}]
```

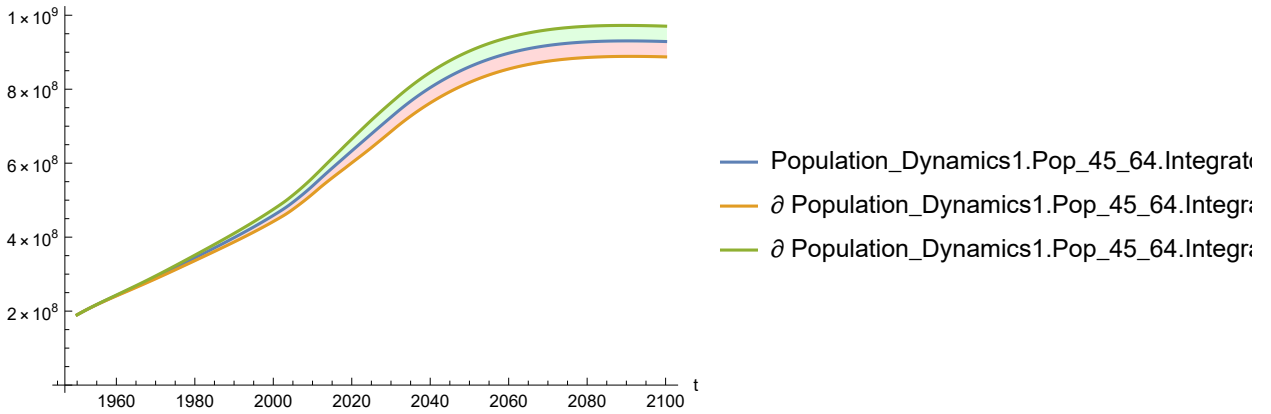
Out[294]=



In[295]:=

```
SystemModelPlot[simsensdata, {"Population_Dynamics1.Pop_45_64.Integrator1.y",
"Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[2]", percentvar}]
```

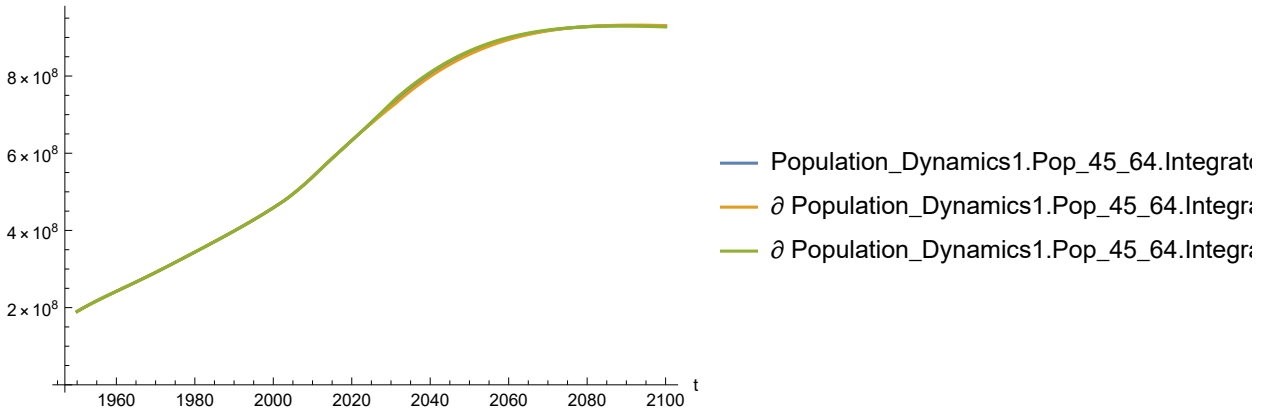
Out[295]=



In[296]:=

```
SystemModelPlot[simsensdata, {"Population_Dynamics1.Pop_45_64.Integrator1.y",
"Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[3]", percentvar}]
```

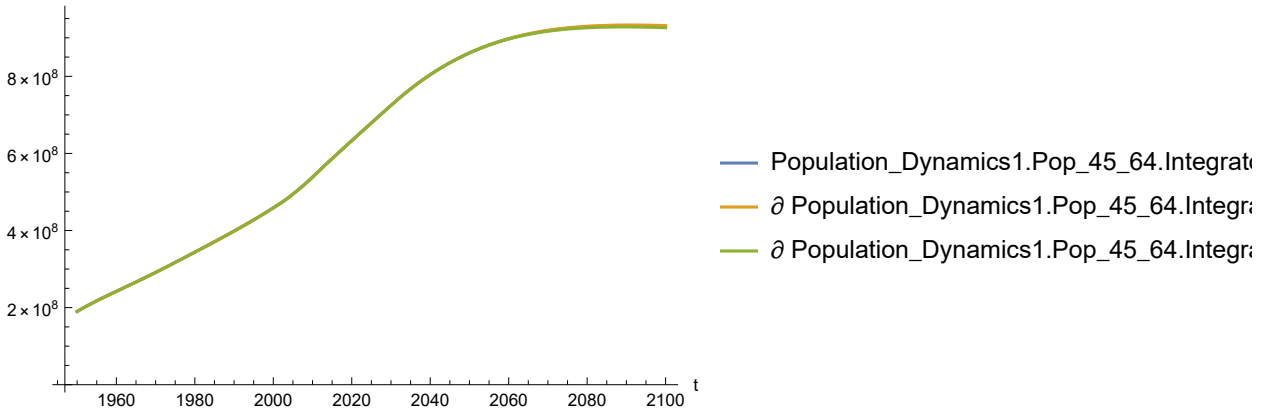
Out[296]=



In[297]:=

```
SystemModelPlot[simsensdata, {"Population_Dynamics1.Pop_45_64.Integrator1.y",
"Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[4]", percentvar}]
```

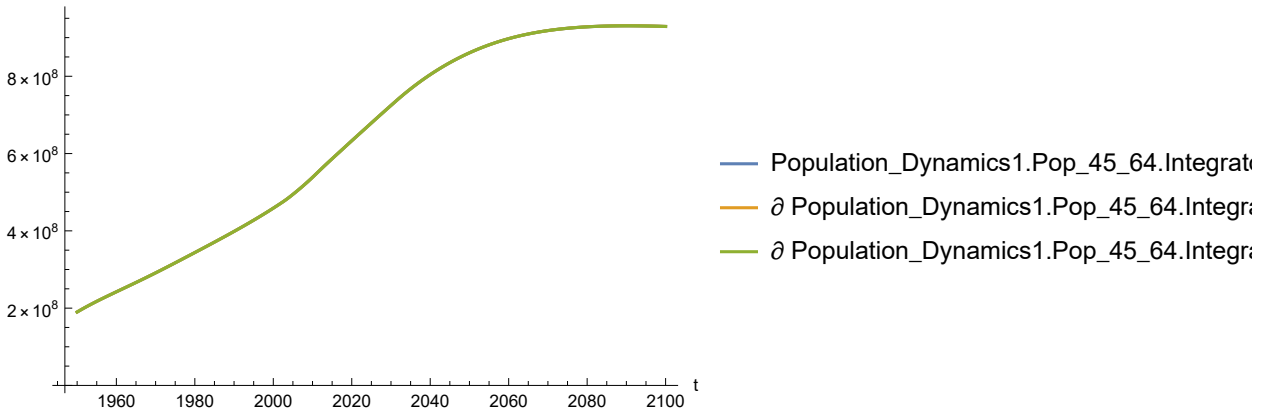
Out[297]=



In[298]:=

```
SystemModelPlot[simsensdata, {"Population_Dynamics1.Pop_45_64.Integrator1.y",
"Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[5]", percentvar}]
```

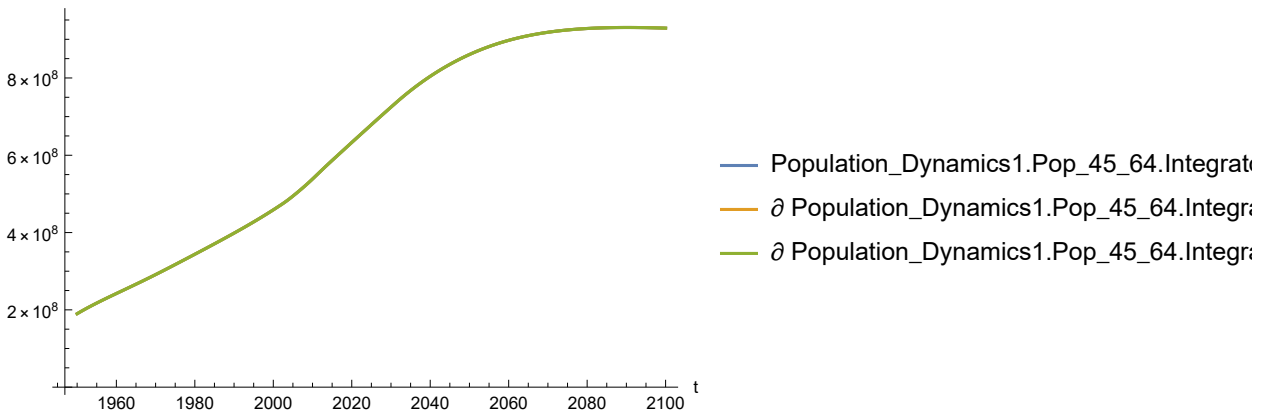
Out[298]=



In[299]:=

```
SystemModelPlot[simsensdata, {"Population_Dynamics1.Pop_45_64.Integrator1.y",
"Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[6]", percentvar}]
```

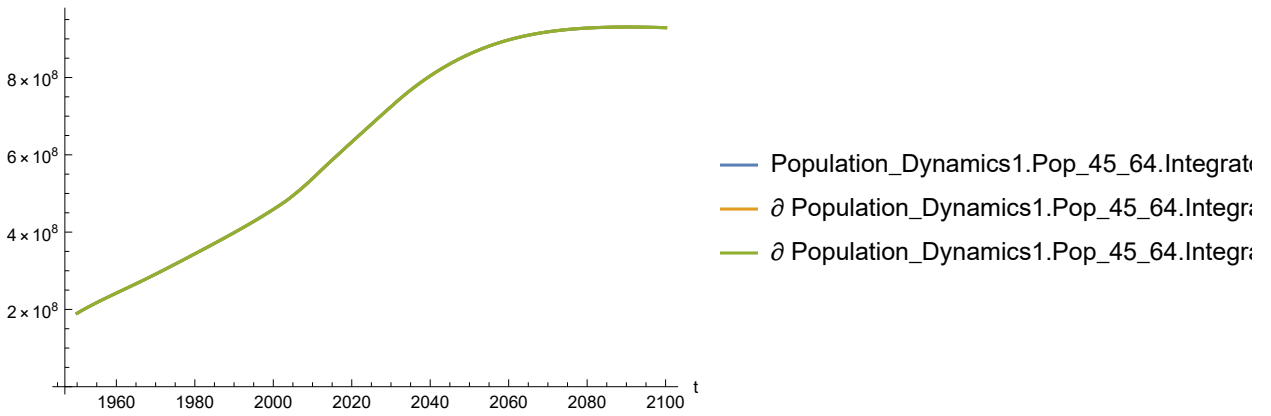
Out[299]=



In[300]:=

```
SystemModelPlot[simsensdata, {"Population_Dynamics1.Pop_45_64.Integrator1.y",
"Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[7]", percentvar}]
```

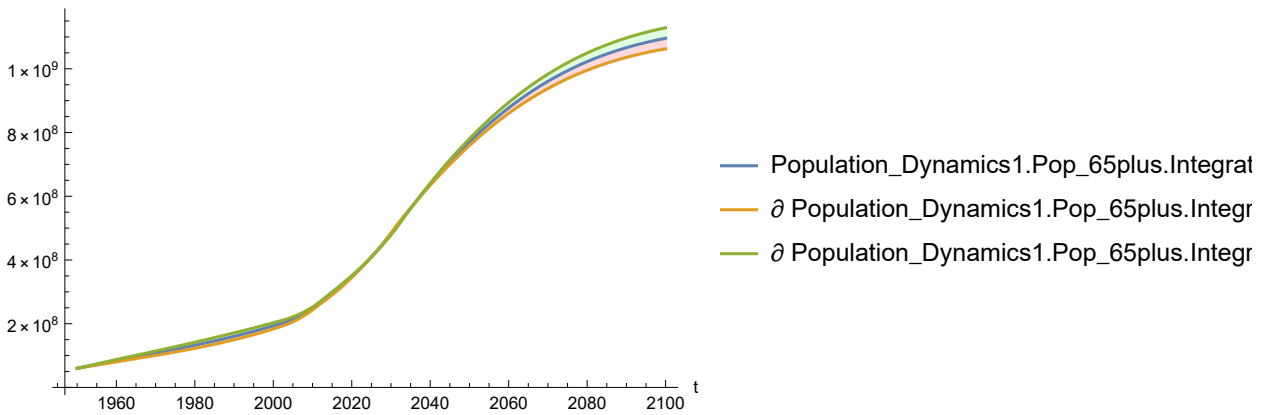
Out[300]=



In[301]:=

```
SystemModelPlot[simsensdata, {"Population_Dynamics1.Pop_65plus.Integrator1.y",
"Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[1]", percentvar}]
```

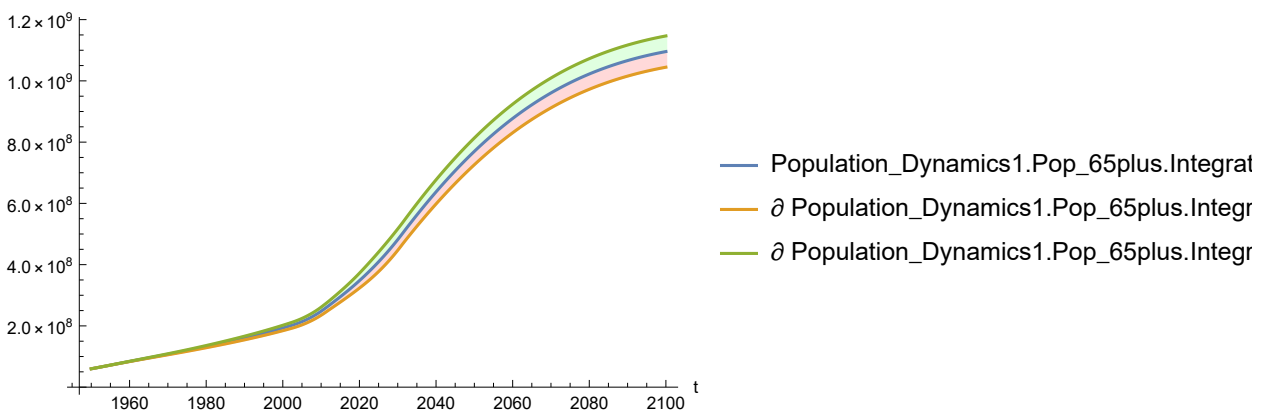
Out[301]=



In[302]:=

```
SystemModelPlot[simsensdata, {"Population_Dynamics1.Pop_65plus.Integrator1.y",
"Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[2]", percentvar}]
```

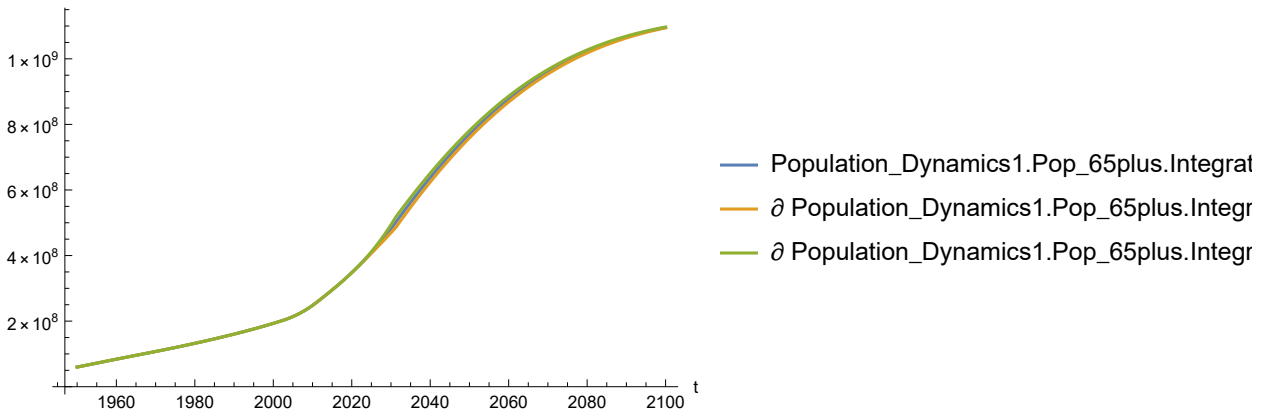
Out[302]=



In[303]:=

```
SystemModelPlot[simsensdata, {"Population_Dynamics1.Pop_65plus.Integrator1.y",
"Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[3]", percentvar}]
```

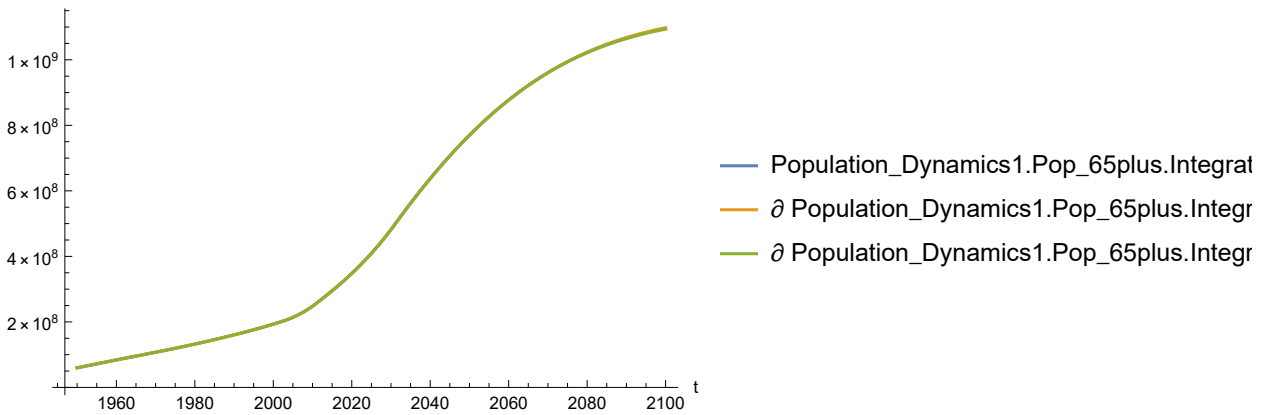
Out[303]:=



In[304]:=

```
SystemModelPlot[simsensdata, {"Population_Dynamics1.Pop_65plus.Integrator1.y",
"Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[4]", percentvar}]
```

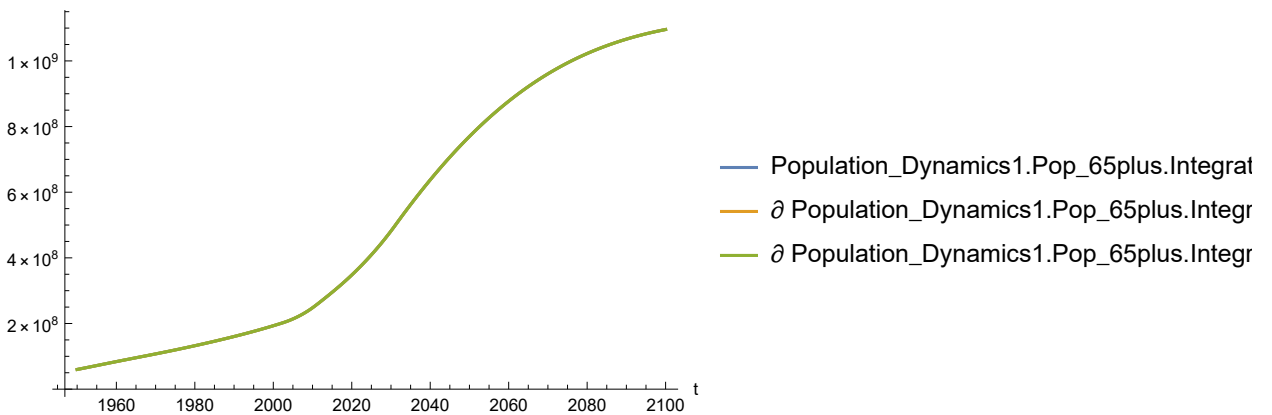
Out[304]:=



In[305]:=

```
SystemModelPlot[simsensdata, {"Population_Dynamics1.Pop_65plus.Integrator1.y",
"Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[5]", percentvar}]
```

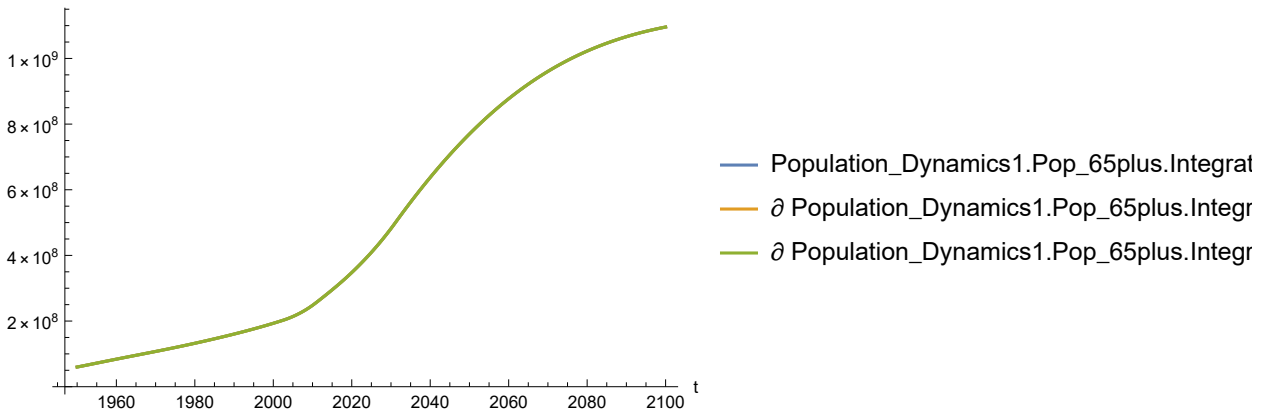
Out[305]:=



In[306]:=

```
SystemModelPlot[simsensdata, {"Population_Dynamics1.Pop_65plus.Integrator1.y",
"Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[6]", percentvar}]
```

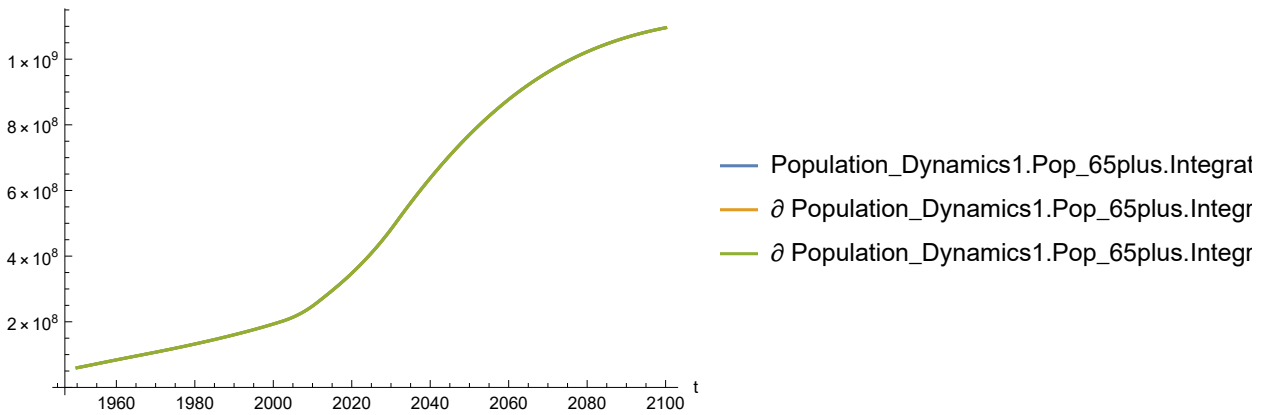
Out[306]=



In[307]:=

```
SystemModelPlot[simsensdata, {"Population_Dynamics1.Pop_65plus.Integrator1.y",
"Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[7]", percentvar}]
```

Out[307]=

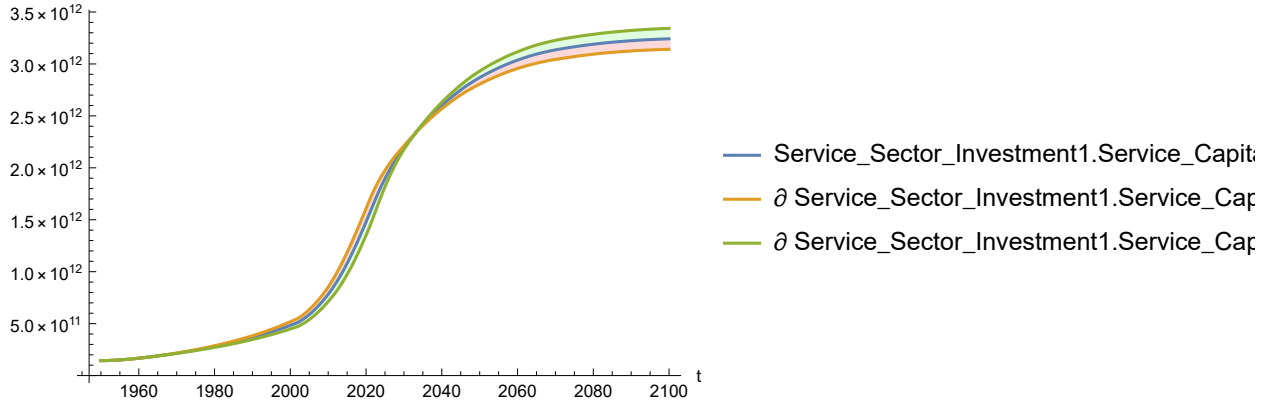


Plot sensitivity of Service_Sector_Investment1.Service_Capital.Integrator1.y to Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals.

In[308]:=

```
SystemModelPlot[simsensdata,
  {"Service_Sector_Investment1.Service_Capital.Integrator1.y",
   "Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[1]", percentvar}]
```

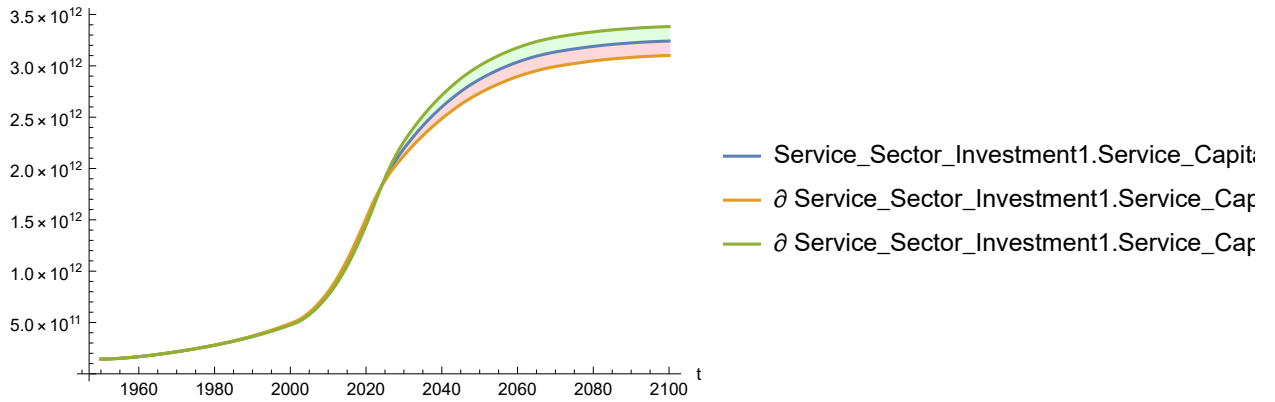
Out[308]=



In[309]:=

```
SystemModelPlot[simsensdata,
  {"Service_Sector_Investment1.Service_Capital.Integrator1.y",
   "Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[2]", percentvar}]
```

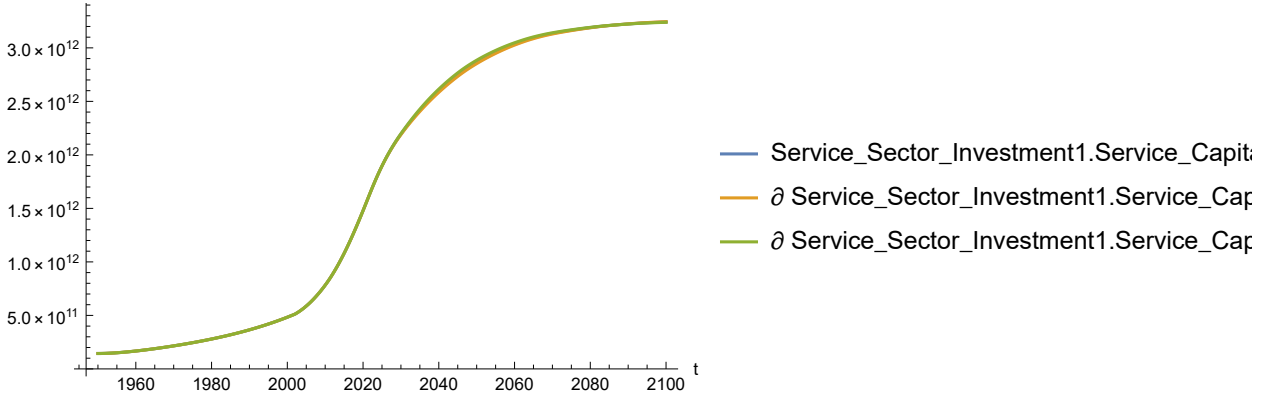
Out[309]=



In[310]:=

```
SystemModelPlot[simsensdata,
  {"Service_Sector_Investment1.Service_Capital.Integrator1.y",
   "Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[3]", percentvar}]
```

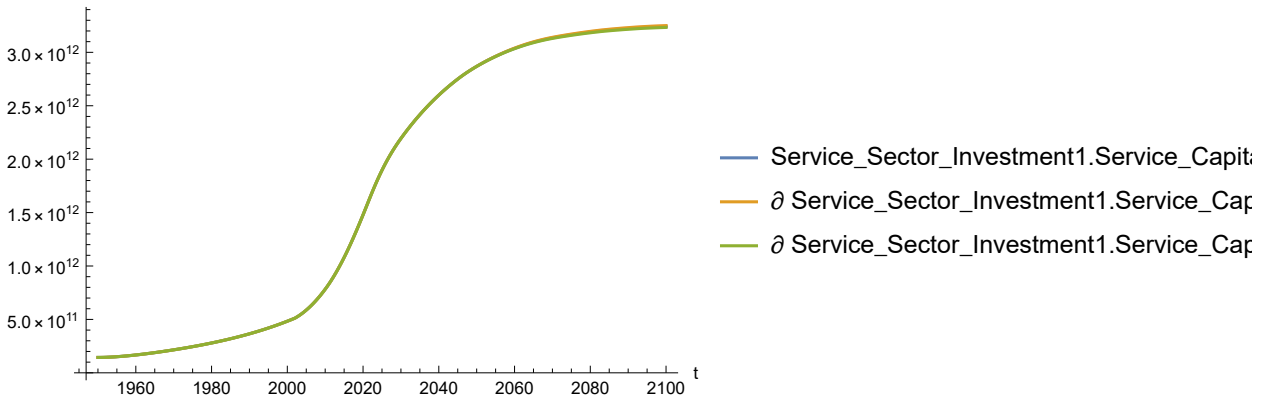
Out[310]=



In[311]:=

```
SystemModelPlot[simsensdata,
  {"Service_Sector_Investment1.Service_Capital.Integrator1.y",
   "Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[4]", percentvar}]
```

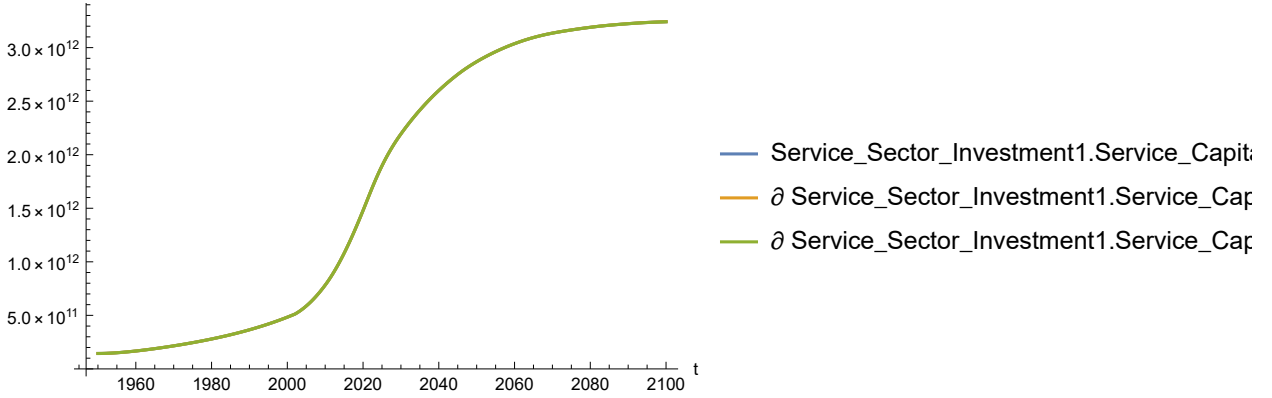
Out[311]=



In[312]:=

```
SystemModelPlot[simsensdata,
  {"Service_Sector_Investment1.Service_Capital.Integrator1.y",
   "Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[5]", percentvar}]
```

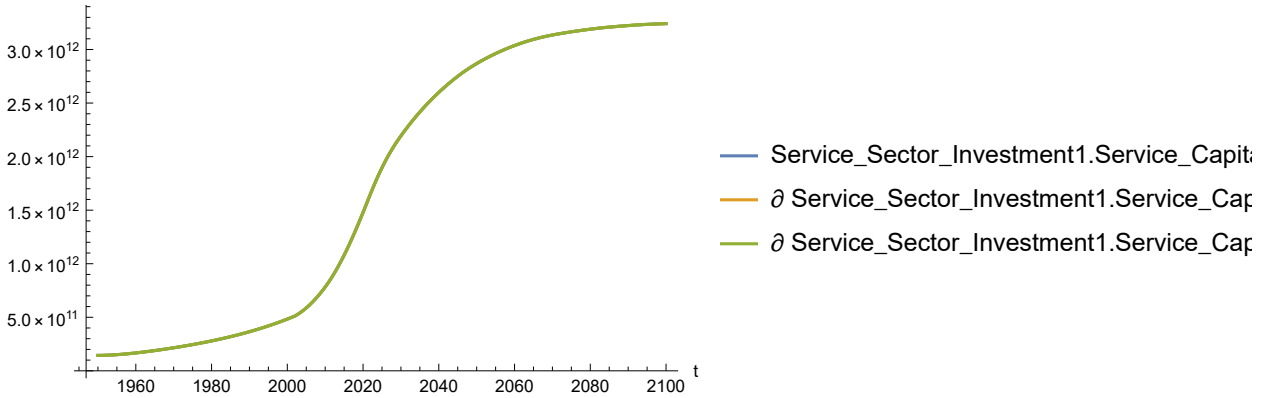
Out[312]=



In[313]:=

```
SystemModelPlot[simsensdata,
  {"Service_Sector_Investment1.Service_Capital.Integrator1.y",
   "Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[6]", percentvar}]
```

Out[313]=



In[314]:=

```
SystemModelPlot[simsensdata,
  {"Service_Sector_Investment1.Service_Capital.Integrator1.y",
   "Life_Expectancy1.Lifet_Mlt_Hlth_Serv_2.y_vals[7]", percentvar}]
```

Out[314]=

