

OG-IDN: Inputs and outputs

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Overview

- OG-IDN Inputs
 - Parameters and larger objects
 - Where to find them
- OG-IDN Output
 - Where it is
 - How to access it
 - Different ways to display it
- Ways to run the model

Takeaway

Basic understanding of model parameters, outputs, and how to run the model

OG-IDN Inputs

Two types of inputs

Parameters and arrays: Necessary info for model simulation

- Description of all parameters in OG-Core appendix chapter “[Model parameters](#)”
- New list of uniquely calibrated parameters in [OG-IDN documentation](#)
- Best description in OG-Core [default_parameters.json](#) file
- Other inputs, such as demographics, are created/updated with other files like [parameters.py](#) in OG-Core, and [calibrate.py](#) in OG-IDN

Default parameters and parameters object

- Go through OG-Core `default_parameters.json` and “[Model parameters](#)” chapter
- Instantiate a default OG-Core parameters object in notebook
- Go through OG-IDN `ogidn_default_parameters.json`
- Update the parameters object in notebook to OG-IDN default
- Show how to update and change parameters in scripts

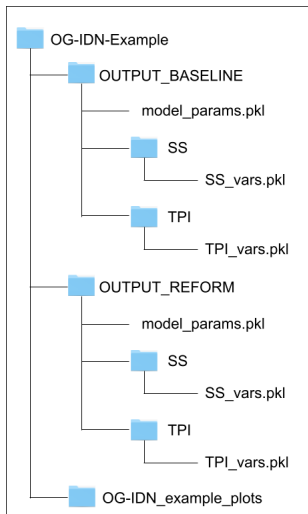
OG-IDN output

Two main output files for each Simulation

- `SS_vars.pkl`
- `TPI_vars.pkl`

Notebook

Go through output and image objects and show automatic functionality



OG-IDN output

- Description of all variables in OG-Core appendix chapter “[Model variables](#)”
- Best description in OG-Core [model_variables.json](#) file

Ways to run OG-IDN

- ① (Local) Clone/download all repository files
 - Best for developing and customizing
 - Create `ogidn-dev` conda environment
 - Run either with Python scripts or in Jupyter notebook
- ② (Local) `pip install ogidn` from PyPI.org
 - Best if only want parameter changes, and don't need to change underlying model
 - Run either with Python scripts or in Jupyter notebook
- ③ (Cloud) Run in Google Colab using `!pip install ogidn` (<https://tinyurl.com/bdcvds9a>)

Google Colab notebook

<https://tinyurl.com/bdcvds9a>

