

# OG-PHL: An example of a full-economy model for the Philippines

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# Overview

- OG-PHL Inputs
  - Parameters and larger objects
  - Where to find them
- OG-PHL 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-PHL Inputs

## Two types of inputs

Parameters and arrays: Necessary info for model simulation

- New description of all parameters in OG-Core appendix chapter “[Model parameters](#)”
- New list of uniquely calibrated parameters in [OG-PHL 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-PHL

# 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-PHL `ogphl_default_parameters.json`
- Update the parameters object in notebook to OG-PHL default
- Show how to update and change parameters in scripts

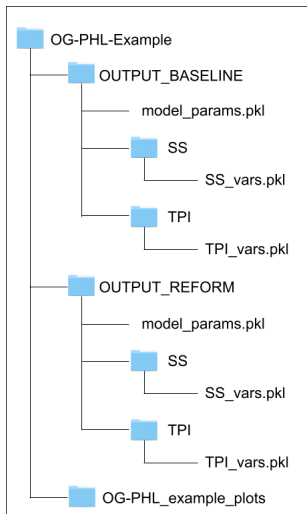
# OG-PHL output

Two main output files for each Simulation

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

## Notebook

Go through output and image objects and show automatic functionality



# Ways to run OG-PHL

- 1 (Local) Clone/download all repository files
  - Best for developing and customizing
  - Create `ogphl-dev` conda environment
  - Run either with Python scripts or in Jupyter notebook
- 2 (Local) `pip install ogphl` 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 ogphl`  
(<https://tinyurl.com/3s3zbbfj>)

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