OG-ZAF: Inputs and outputs

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Overview

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

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-ZAF `ogzaf_default_parameters.json`
- Update the parameters object in notebook to OG-ZAF default
- Show how to update and change parameters in scripts

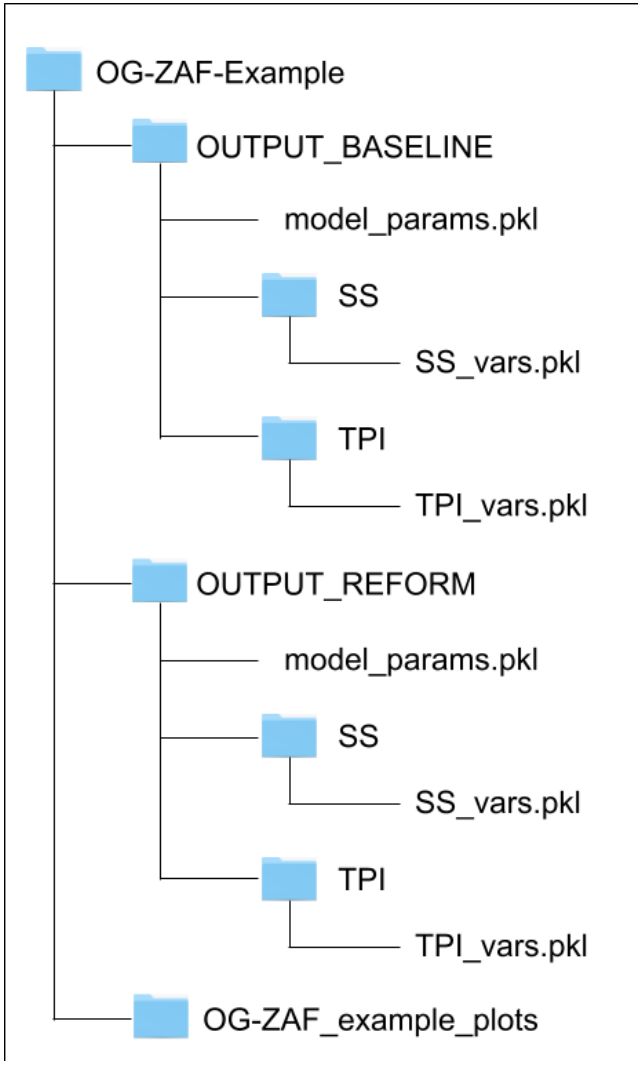
OG-ZAF output

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-ZAF

1. (Local) Clone/download all repository files
   - Best for developing and customizing
   - Create `ogzaf-dev` conda environment
   - Run either with Python scripts or in Jupyter notebook

2. (Local) `pip install ogzaf` 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 ogzaf` (https://tinyurl.com/4zzjzuut)

Google Colab notebook

https://tinyurl.com/4zzjzuut