Necessary data for DSA (deterministic model):

* Import institutional debt data from Excel input data file.
  + '../data/InputData/deterministic\_model\_data.xlsx', sheet\_name='esm\_data'
    - Data on amortization: only available for GRC, PRT, IRL, ESP, CYP
* Import ameco projection baseline data from Excel input data file.
  + '../data/InputData/deterministic\_model\_data.xlsx', sheet\_name='ameco\_data'
    - Full panel data set from 1960-2025
    - Vars: ngdp, rgdp, gdp\_pot, gdp\_gap, gdp\_def\_pch, d, fb, spb, pb, iir, sf, exr\_eur, exr\_usd
* Import output gap working group data from Excel input data file.
  + '../data/InputData/deterministic\_model\_data.xlsx', sheet\_name='output\_gap\_working\_group'
    - Full panel data set 1965-2028
    - Vars: gdp\_pot, gdp\_real, gdp\_gap, gdp\_pot\_pch, gdp\_real\_pch
* Import commission projections data from Excel input data file.
  + '../data/InputData/deterministic\_model\_data.xlsx', sheet\_name='commission\_data'
    - Panel dataset from 2022-2070
    - Vars: real\_growth, gdp deflator, ageing cost, property\_income
    - Example data copied from C:\Users\christoph-paetz\Hans-Böckler-Stiftung\OneDrive - Hans-Böckler-Stiftung\Dokumente\GitHub\eu-debt-sustainability-analysis\sep23\_working\_paper\_replication\_files\data\InputData\ deterministic\_model\_data.xlsx and pasted into C:\Users\christoph-paetz\Hans-Böckler-Stiftung\OneDrive - Hans-Böckler-Stiftung\Dokumente\GitHub\eu-debt-sustainability-analysis\latest\_version\data\InputData\ deterministic\_model\_data.xlsx
* Import BBG interest rate baseline and expectations from Excel input data file.
  + '../data/InputData/deterministic\_model\_data.xlsx', sheet\_name='bbg\_data'
    - Short panel from 2022-2024
    - Vars: 3M, 10Y, 10Y10Y, 3M10Y
    - 2022-2023 copied from C:\Users\christoph-paetz\Hans-Böckler-Stiftung\OneDrive - Hans-Böckler-Stiftung\Dokumente\GitHub\eu-debt-sustainability-analysis\sep23\_working\_paper\_replication\_files\data\InputData\ deterministic\_model\_data.xlsx
      * 10y10y und 3m10y rates for 2022 are missing.
    - 2024 data was already included and looks assumed or example like
* Import inflation expectations from Excel input data file.
  + '../data/InputData/deterministic\_model\_data.xlsx', sheet\_name= 'inflation\_fwd'
    - Vars: maturity and infl\_expectation (no year or country information)
    - Maturities 1-10 taken from C:\Users\christoph-paetz\Hans-Böckler-Stiftung\OneDrive - Hans-Böckler-Stiftung\Dokumente\GitHub\eu-debt-sustainability-analysis\sep23\_working\_paper\_replication\_files\data\InputData\ deterministic\_model\_data.xlsx
    - 11-30 was already included in deterministic\_model\_data.xlsx in the latest version and is set to 2.5 for the entire time
* Import ECB data on debt stock from Excel input data file.
  + '../data/InputData/deterministic\_model\_data.xlsx', sheet\_name='ecb\_data'
    - Cross section data for European countries
    - Vars: ISO, share\_st\_org, debt\_total, debt\_st, debt\_total, share\_lt\_maturing, share\_lt\_maturing\_6y\_avg, share\_eur\_stochastic, share\_domestic share\_eur, share\_foreign\_non\_euro
* Import budget semi elasticities from Excel input data file.
  + '../data/InputData/deterministic\_model\_data.xlsx', sheet\_name='budget\_elasticity'
    - Cross section data for European countries
    - Only data for budget\_elasticity