

NEMESIS-World

(New Econometric Model for Evaluation by Sectoral Interdependency and Supply - World version)

MODEL OVERVIEW

NEMESIS-World is a multi-country, multi-sector, recursive dynamic macroeconomic model inspired by the EU version of the NEMESIS model. It is a system of interconnected economic models covering 22 world regions. The primary purpose of the model is to assess the socioeconomic impacts of various policies through scenario-based comparative analysis. The model's core mechanisms rely on the behaviour of representative agents: firms, households, and governments. On the supply side, the model distinguishes 59 different economic activities that produce goods and services using production functions. All sectors are interlinked through inter-sectoral exchanges and international trade. NEMESIS-World also features a detailed energy-environment module, enabling the model to address climate mitigation policies.

ACCESS

NEMESIS-World:

<https://nemesis-world.readthedocs.io/en/latest/>

GitHub

<https://github.com/Seureco/NEMESIS-World>

Zenodo:

<https://doi.org/10.5281/zenodo.17753365>

LICENSE

Data: CC BY-NC-SA 4.0

Code: Apache License 2.0 adding the "Commons Clause"

OTHER INFORMATION

Time horizon: 2019 – 2100

Software : Python

CONTACT DETAILS

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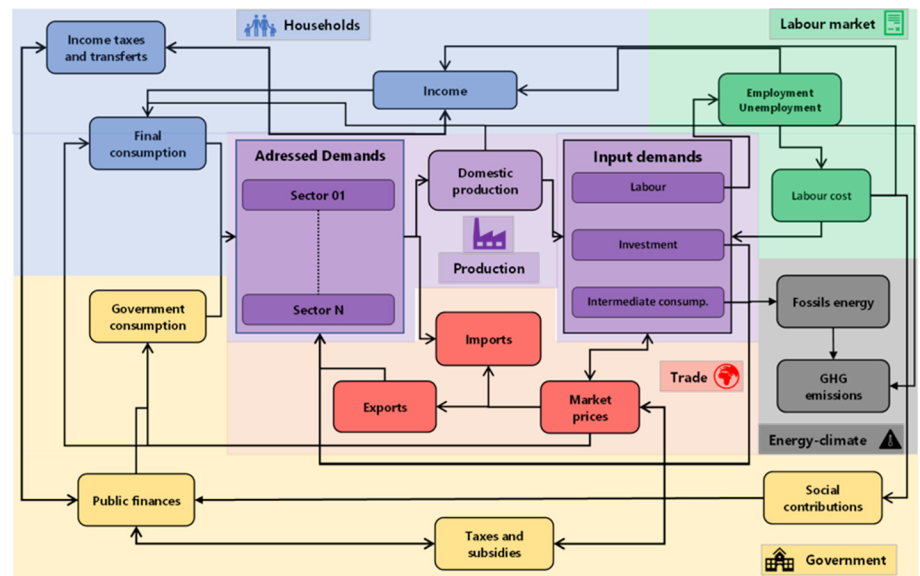
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NEMESIS-World general scheme

SUPPORTED ANALYSES

- Global and regional socio-economic impact assessment of climate mitigation policies.
- Energy transition and decarbonisation pathway analysis.
- Sectoral and regional structural change assessment.
- Carbon pricing and climate policy instrument evaluation.
- Long-term sustainable development scenario analysis.

WHAT'S NEW

- Global coverage, distinguishing 22 different regions, individualising the world's largest economies.
- Sectoral disaggregation based on their relevance to GHG mitigation technologies including the energy supply sector.
- Detailed representation of economic activities and disaggregation of workers.

SDG COVERAGE



REGION MAP

Nemesis-World geographical coverage (22 world regions)



Australia, Brazil, Canada, China, France, Germany, India, Indonesia, Italy, Japan, Korea, Mexico, Russia, Spain, UK, USA, Rest of EU, RoW America, RoW Asia & Pacific, RoW Europe, RoW Middle East, RoW Africa

SECTORS

