
**EUROMOD (compiled version including plugins)
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European Commission
Joint Research Centre
Directorate B – Fiscal Policy Analysis Unit
Edificio EXPO, c/ Inca Garcilaso 3
E-41092 Sevilla
To the attention of Salvador Barrios
(JRC-EUROMOD@ec.europa.eu)

ANNEX A
TECHNICAL SPECIFICATIONS OF THE SOFTWARE AND THIRD-PARTIES' LIBRARIES

Euromod (compiled version including plugins)

Version: 3.4.10

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<https://euromod-web.jrc.ec.europa.eu/>

The Source Code of EUROMOD is available under the EUPL Version 1.2 (without including DevExpress libraries) in the following repository: <https://github.com/ec-jrc/JRC-EUROMOD-software-source-code>. More information can be found on the following address: <https://euromod-web.jrc.ec.europa.eu/> or by contacting JRC-EUROMOD@ec.europa.eu

EUROMOD is a tax-benefit microsimulation model for the European Union and the UK that enables researchers and policy analysts to calculate, in a comparable manner, the effects of taxes and benefits on household incomes and work incentives for the population of each country and for the EU as a whole.

Originally maintained, developed and managed by the Institute for Social and Economic Research (ISER) (external link to the Centre for Microsimulation and Policy Analysis, University of Essex website), since 2021 EUROMOD is maintained, developed and managed by the Joint Research Centre (JRC) of the European Commission, in collaboration with EUROSTAT and national teams from the EU countries.

Cross-country comparability is enabled by coding the policy systems of the EU Member States and the UK according to a common framework based on a standard set of protocols.

Functionalities:

- Estimation of poverty, inequality and redistribution statistics under actual conditions, previous or future tax-benefit rules.
- Budgetary effects.
- Effects of simple tax-benefit policy reforms (or illustrative changes to household composition and original income).
- Effects complex policy reforms (e.g. effects of revenue-neutral changes to tax rates and social insurance regulations).
- "Model family" calculations.
- Indicators of work incentives.
- Policy swapping between countries (i.e. effects on country A of adopting a policy measure currently effective in country B)
- Generation of budget sets as input to labour supply or other models of behaviour change
- Generation of counterfactual income to answer "what if" questions
- Assessing effects and costs of EU-wide policy reforms.
- Data imputation: Generation of gross income (by source) from net, or vice versa.

Plugins:

EUROMOD is distributed together with the following plugins, which extend the core functionalities:

- **Policy Effects Tool:** The Policy Effects tool plugin estimates the first-order effects of policies on household incomes. The tool is meant to assist with model validation and compares policies in place in two consecutive years, both in nominal and real terms. This plugin is included with the default EUROMOD installation.
- **Hypothetical Household Tool:** The Hypothetical Household Tool (HHoT) is a EUROMOD plugin for designing hypothetical households and generating data according to the chosen household characteristics. This hypothetical household data can then be used to estimate the effects of taxes and benefits on household disposable income. This plugin is included with the default EUROMOD installation.
- **Statistics Presenter:** The Statistics Presenter plugin is an analysis tool that produces a fixed set of statistics on income distribution based on (a) EUROMOD output file(s). This plugin is included with the default EUROMOD installation.
- **In-depth Analysis:** The In-depth Analysis plugin is an advanced Statistics presenter which provides additional indicators and allow extra flexibility in the definition of variables and population groups.

The In-depth Analysis plugin was developed as a part of the project “Support for the Microsimulation Hub of the Council of Economic Advisors in Greece”, funded by the European Commission’s Structural Reform Support Programme and implemented by the Joint Research Centre through an administrative arrangement with DG REFORM. All parties agreed to incorporate the plugin to EUROMOD, which implies the public distribution of its compiled version under the EUROMOD End-user licence agreement and its source code under the European Union Public Licence (EUPL-1.2) or a later version of this licence.

- **Income List Components:** The Income List Components plugin extracts information about the income lists used in the selected countries/years. In particular, it visualises the components of the income list. This plugin is not included in the default EUROMOD installation, it has to be installed separately after installing EUROMOD.
- **Variables Checker:** The Variables Checker plugin provides methods for validating the EUROMOD variables file. This plugin is not included in the default EUROMOD installation, it has to be installed separately after installing EUROMOD.
- **Web Statistics:** The Web Statistics plugin automatically generates a web statistics report.

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