EUROMOD Introduction and overview

European Microsimulation Modelling for Policymaking 28 May 2015





What is EUROMOD?

EUROMOD is a unique tax-benefit microsimulation model for the EU 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

Since 2009, EUROMOD has been supported by the European Commission's DG-EMPL to maintain and carry out annual updates of policy and input data





Why use EUROMOD?

EUROMOD is widely used across a range of disciplines from public economics to comparative social policy

Key strengths of the model include:

- the only multi-country tax-benefit model available for the EU
- harmonised input data and policy simulations for all countries
- highly flexible policy settings
- intuitive user interface
- universal tax-benefit modelling language
- extensive library of policies
- continually updated and developed

FREE ACCESS to policy makers and researchers



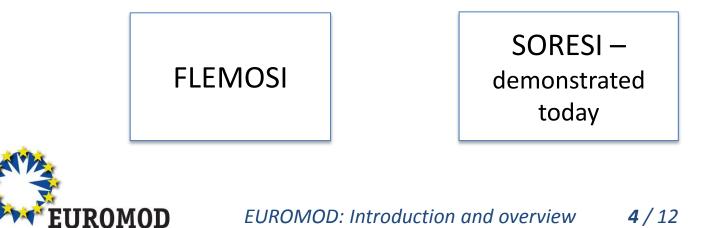




Why use EUROMOD?

EUROMOD can be linked to, or used alongside, other types of model (behavioural, macro-economic or environmental) as a tax-benefit policy calculator or to provide a distributional perspective

EUROMOD is sufficiently flexible that its general framework can be used to shortcut the process of building similar models with potentially comparable outputs for any country





How EUROMOD works

EUROMOD is a static microsimulation model

It applies user-defined policy rules to harmonised survey micro-data on individuals and households, calculates the effects of these rules, and then outputs results – still at the micro level – that can be analysed in the user's chosen statistical software

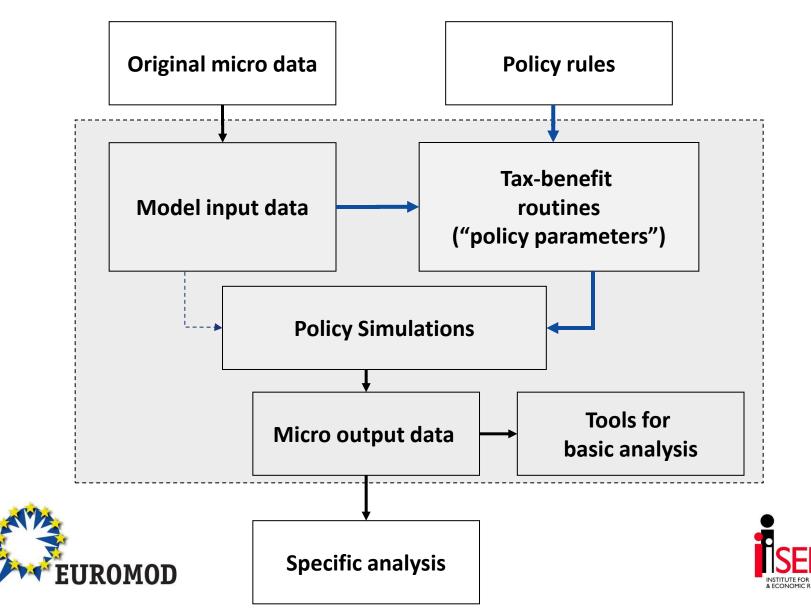
In addition, the model can output a range of summary statistics

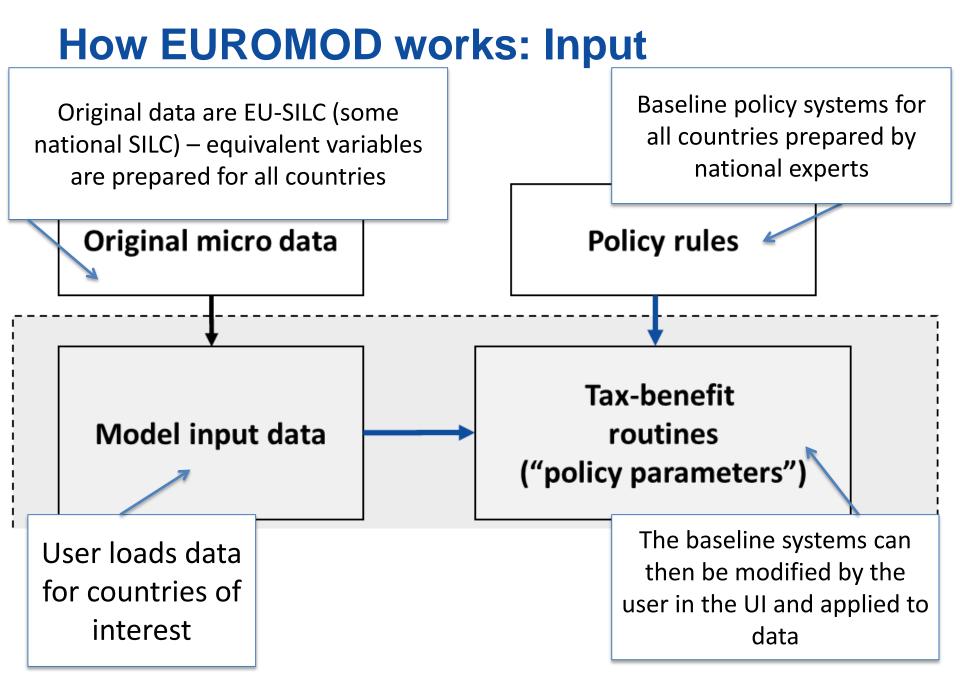
EUROMOD aims to simulate as much as possible of the tax and benefit components of household disposable income



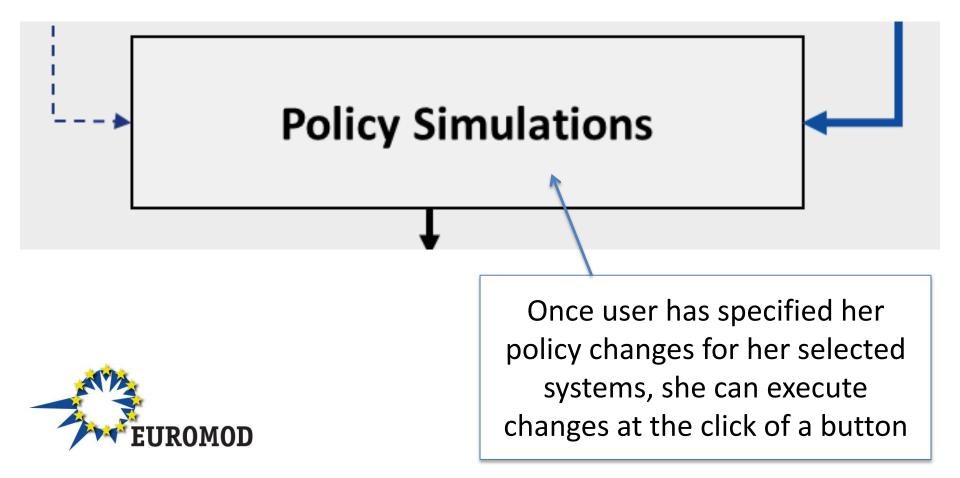


How EUROMOD works

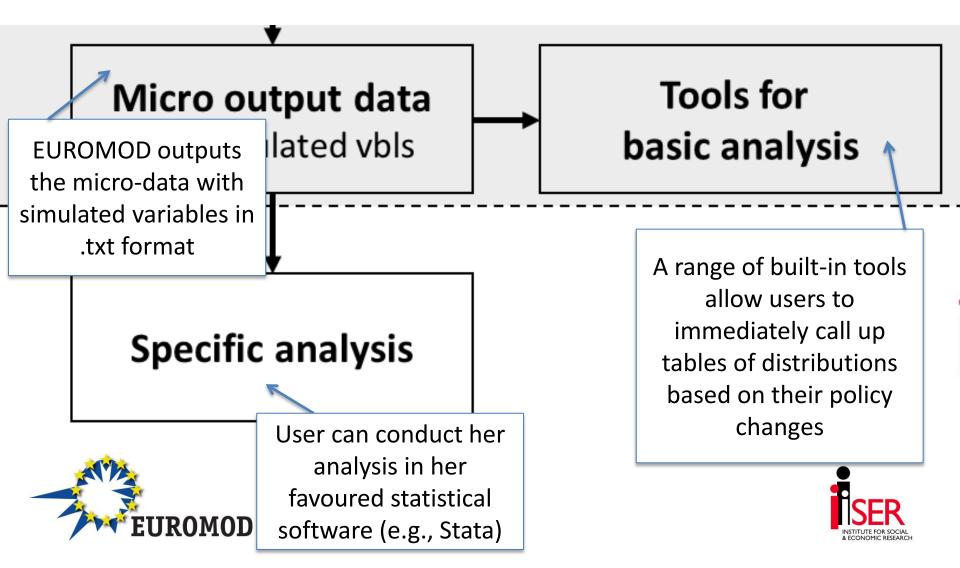




How EUROMOD works: Simulations



How EUROMOD works: Output



What can EUROMOD do?

- Estimate the redistributive effects of actual/previous/future tax-benefit policies
 - on income distribution
 - on risk of poverty and income inequality
 - estimating budgetary costs
- Policy swapping analysis
- Cross-country comparisons
- Tax design, including EU-wide reforms
- Estimate work incentives (METR and RR) and labour supply
- Stress test a tax-benefit system
- Model hypothetical households
- 'Nowcast' and forecast the income distribution under different scenarios
- Data imputation
 - gross income (by source) from net, or vice versa
 - estimate the extent and incidence of non-take up of benefits or tax evasion



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Accessing EUROMOD

EUROMOD is freely accessible for non-commercial use

The latest public release version of EUROMOD covers all EU-27 countries and policies 2009-2013

We recommend attending our next training course if you are new to EUROMOD





Model updates and roadmap

Support from DG-EMPL allows us to develop and annually update EUROMOD so as to maintain its usefulness as a tool for policy-relevant research and policy monitoring

The main tasks are updating policies to the latest year and revising and updating input data which, for most countries, is based on EU-SILC micro-data

The work is being done in collaboration with national teams in each of the member states

It is planned to release the first 28-country version of EUROMOD using 2014 policies and 2012 SILC data early in 2016





Thank you!

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