

The background of the slide is a faded, light-colored photograph of a modern, multi-story building with a grid of windows and a glass-enclosed entrance area. The image is semi-transparent, allowing the text to be clearly visible.

PORTABLE DYMÉ PORTUGAL

An INFORUM National Multi-Sectoral Model for Portugal

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A PortableDyme Model for Portugal

► Why?

- ⇒ Enhancements/Improvements of the PortableDyme model template
- ⇒ No INFORUM member from Portugal
- ⇒ But: contact to the Ministry of Environment in Portugal
- ⇒ One of the EU countries that is not part of the BTM

Data and Model Structure

- ▶ Model structure:
 - ⇒ Based on the INFORUM modelling approach
 - Considering the complete macroeconomy (volumes, prices, employment, ...)
 - Bottom-up approach: modelled at industry level
 - Dynamic model
 - ⇒ Nominal and real values, prices
 - ⇒ Basic and purchasers' prices
 - ⇒ National accounts
- ▶ Model can be used for forecasting and scenario analysis
 - ⇒ Answering 'what if' – questions
 - ⇒ Evaluation of developments over time or comparison of different situations at a particular time

Data and Model Structure

► Data from Eurostat (<http://ec.europa.eu/eurostat/data/database>)

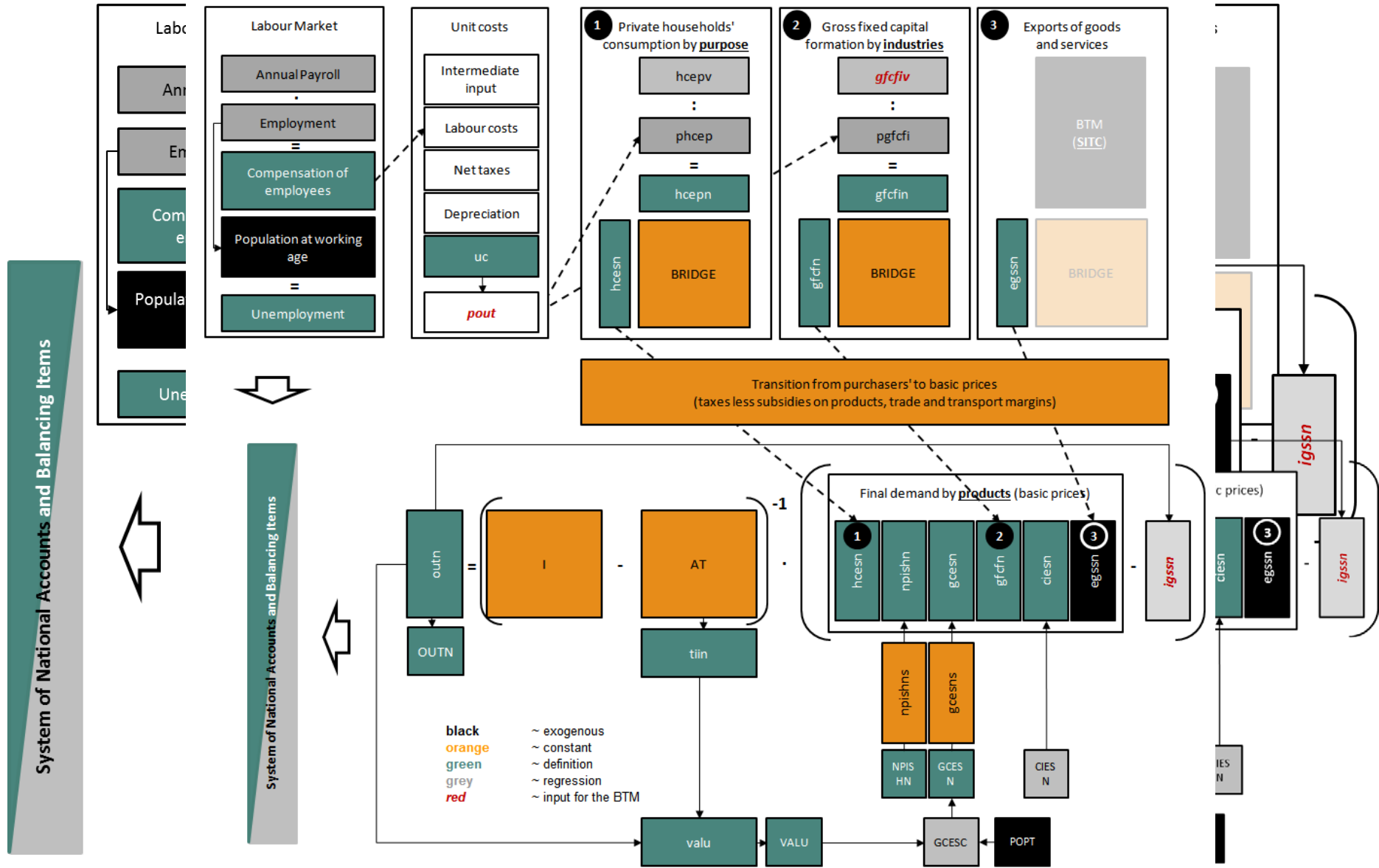
⇒ Population, employment, IO tables, national accounts, ...

⇒ Eurostat provides **tables codes**

⇒ ESGV 2010

The screenshot shows the Eurostat Database website interface. The browser address bar displays ec.europa.eu/eurostat/data/database. The page header includes the Eurostat logo and the tagline "Your key to European statistics". A navigation menu at the top includes "News", "Data", "Publications", "About Eurostat", and "Help". The "DATA" section is active, and the "DATABASE" sub-section is selected. A left sidebar contains various navigation options such as "Information", "Browse statistics by theme", "Statistics A - Z", "Population Census 2011", "Bulk download", "Web Services", and "Metadata". The main content area displays a "Data Navigation Tree" with a search bar. The tree is expanded to show "National accounts (ESA 2010) (na10)", which is further expanded to show "Annual national accounts (nama10) (Important information - Irish GDP revision)". An arrow from the text "Eurostat provides tables codes" points to the "Annual national accounts (nama10)" entry in the tree.

Data and Model Structure



Data and Model Structure

► Important steps

- ⇒ Linking IO tables to national accounts
- ⇒ Linking IO framework (national concept) to GDP calculation (domestic concept)
- ⇒ Transition from basic to purchasers' prices
- ⇒ Building bridge matrices for investment and consumption

Data and Model Structure

- ▶ Helpful tools:
 - ⇒ Preconfigured modelling routines and scripts (for model building and evaluation)
 - Consistency checks (e.g. for the national accounts)
 - Scripts for writing data to Excel from dyme database
 - For one simulation
 - » At macro level
 - » At industry level
 - For more simulations > scenario comparison
 - ⇒ Standardised interfaces from the MM to the BTM (and vice versa >> to be done)

- ▶ Routines can be easily adopted to other countries (blueprint)
- ▶ Country forecasts can be easily compared

Results

- ▶ Model presentation / live simulation

To Do's

- ▶ Linking table for exports by products (CPA) to SITC
- ▶ Complete evaluation
 - ⇒ Input from country experts
- ▶ Documentation

Thank you for your attention.

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