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EUROMOD Version Control tool

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EUROMOD Annual Meeting

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Outline

1. Version Control (VC) tool: What is it?
2. Importance of using the Version Control tool.
3. Brief explanation of the tool:
    1. Creation of a new VC project.
    2. Creation of a new online bundle.
    3. Advanced options.

Version Control tool: What is it?

- Tool which allows users (National Team members and developers) <u>to share changes</u> performed to the EUROMOD model.

- Users will be able to:
  - ✓ Download the latest changes.
  - ✓ Compare and merge those changes with their current working version.
  - ✓ Upload a new version to share it with other users.

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# Importance of using the Version Control tool

Advantages:

- Easy to use: It can be accessed directly from EUROMOD (it is integrated within EUROMOD).

- Safe:
  - Model will be stored at JRC for EU Member States systems.
  - Files are encrypted before transmitting them.

- Prevent changes from being lost:
  - Compare & Merge proccess allows users to easily compare two versions of the model and to decide which changes to keep.
  - Different versions can be created and saved per project. All online versions will always be available.

Brief Explanation of the tool
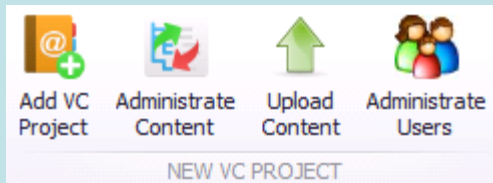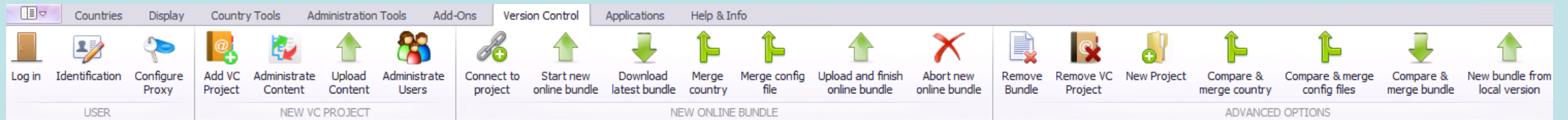

- <u>Add VC Project</u>: Creates a new online "empty" project.
- <u>Administrate Content</u>: Allows choosing the components that will be part of the project.
- <u>Upload Content</u>: Uploads the selected components to the server.
- <u>Administrate Users</u>: Grants users with reading or writing access rights to the project.

Brief Explanation of the tool
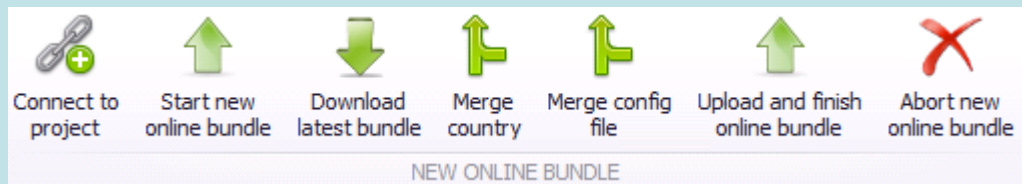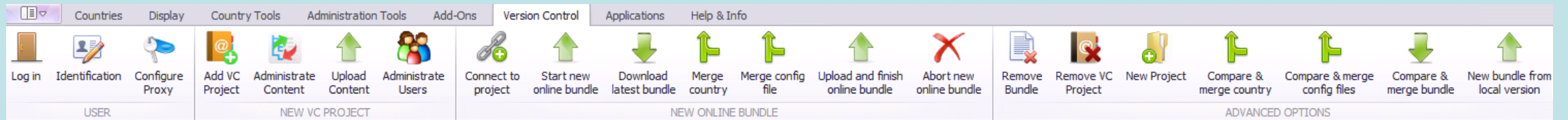
- Connect: Allows connecting to the online bundle.
- Start new online bundle: This button locks the online bundle to prevent other users from performing changes.
- Download latest bundle: The latest online bundle always need to be used as starting point.
- Merge country/config files: Allows comparing country or configuration files.
- Upload and finish online bundle: Uploads the changes and unlocks the online bundle.

Brief Explanation of the tool
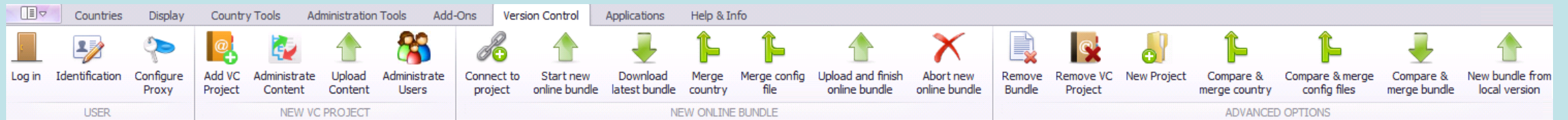
- <u>Remove Bundle</u>: Allows removing an specific online version of the project.
- <u>Remove Project</u>: Allows removing an online project.
- <u>New Project</u>: Allows starting a new project based on an existing local or online project.
- <u>Compare/merge bundle</u>: Shows a list of all components and indicates if there are any changes.
- <u>New bundle from local version</u>: Allows uploading a new bundle without following the steps to create a new online bundle.
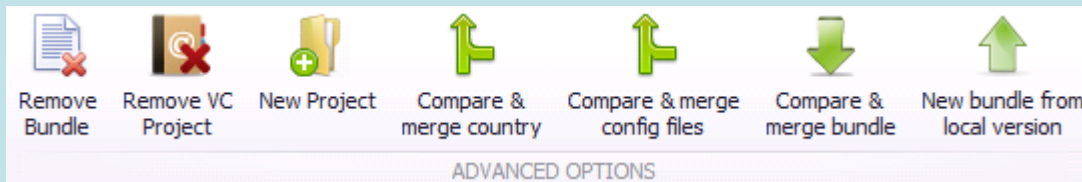
Any questions?
You can find me at

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What's new in EUROMOD?

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Milan, 26 September 2019

New developments

- Executable improvements

- Statistical Library improvements

- HHoT improvements

What's new in the EM3 executable?

- New features
  - DBYearVar
  - StringVariables
  - Conditional constants

- Command line parameters
  - forceSequentialRun, forceSequentialOutput, globalPath, addOn, extensionSwitch, forceOutputInEuro

- Change xml
  - Allows calling the executable with a baseline system and a "change xml" file, as opposed to having to create a full reform system each time

- Can be called as a library
  - Prerequisite for building advanced tools

What's new in the Statistical Library

- Complete redesign of the Statistical Library
- New calculation engine which is faster & more flexible
- Uses XML templates which can be easily hand-coded by advanced users
  - Makes it easier to build new templates and maintain existing ones
- Fully supports graphs
- Can work with data from disk or memory
- We still need to develop a new Statistics Presenter plugin to take full advantage of the new library's flexibility (e.g. to show custom html pages with multiple tables and graphs)

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What's new in HHoT?

- HHoT-specific statistical templates with graphs
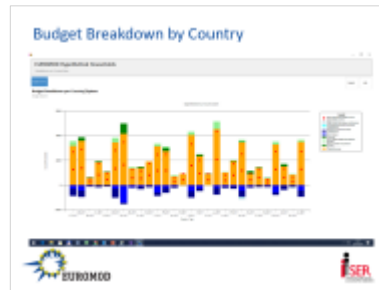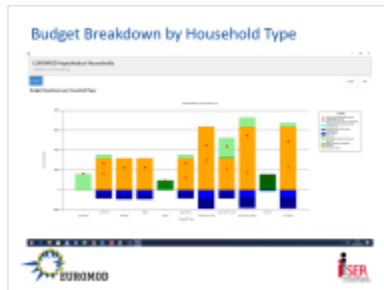
- HHoT Wizard
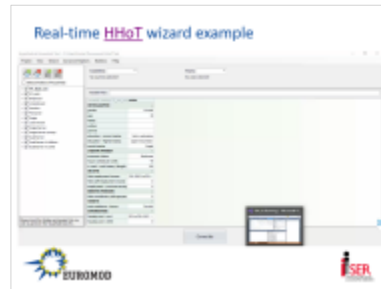
Thank you!

Conditional Constants example

Oprate_uk		on	
ConstDef_uk		on	
DefConst		on	
Condition	1	drgn1 = 8
$ChBen	1	500
$LivWage	1	1000
Condition	2	drgn1 = 10
$ChBen	2	600
$LivWage	2	1100
Condition	3	drgn1 != 8 && drgn1 != 10
$ChBen	3	400
$LivWage	3	800
DefConst		on	
DefConst		on	

Budget Breakdown by Household Type
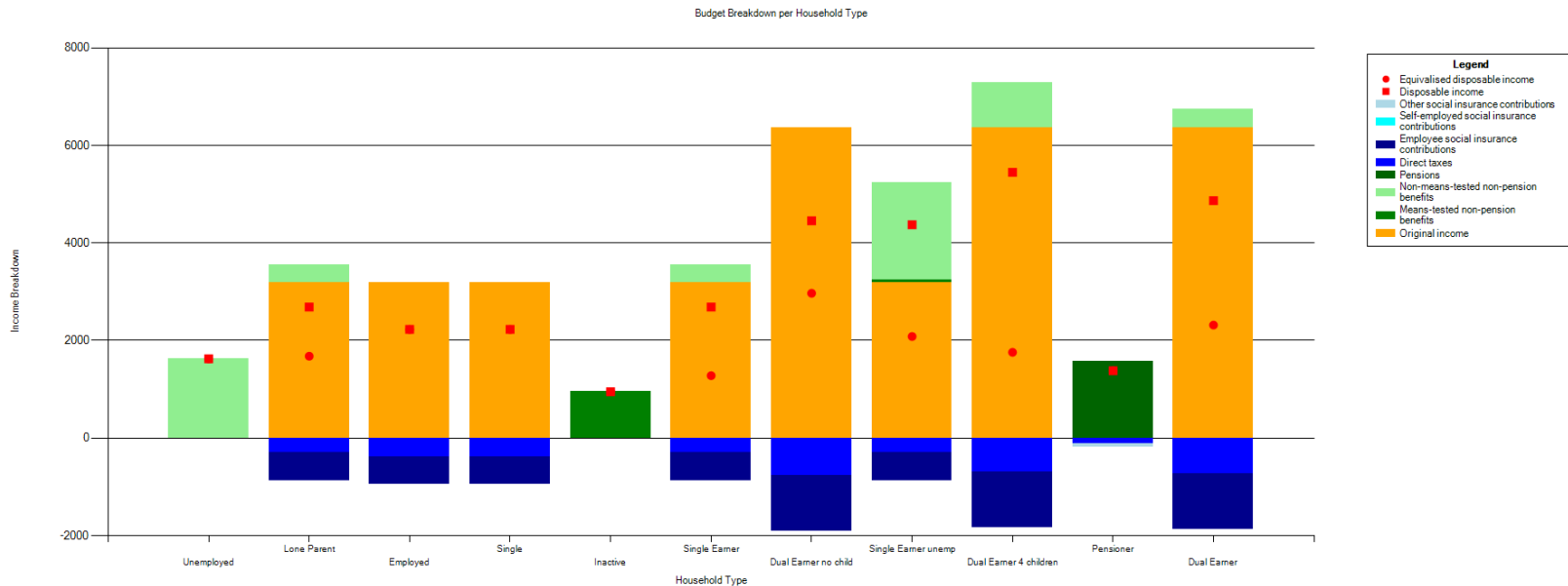
Budget Breakdown by Country/System
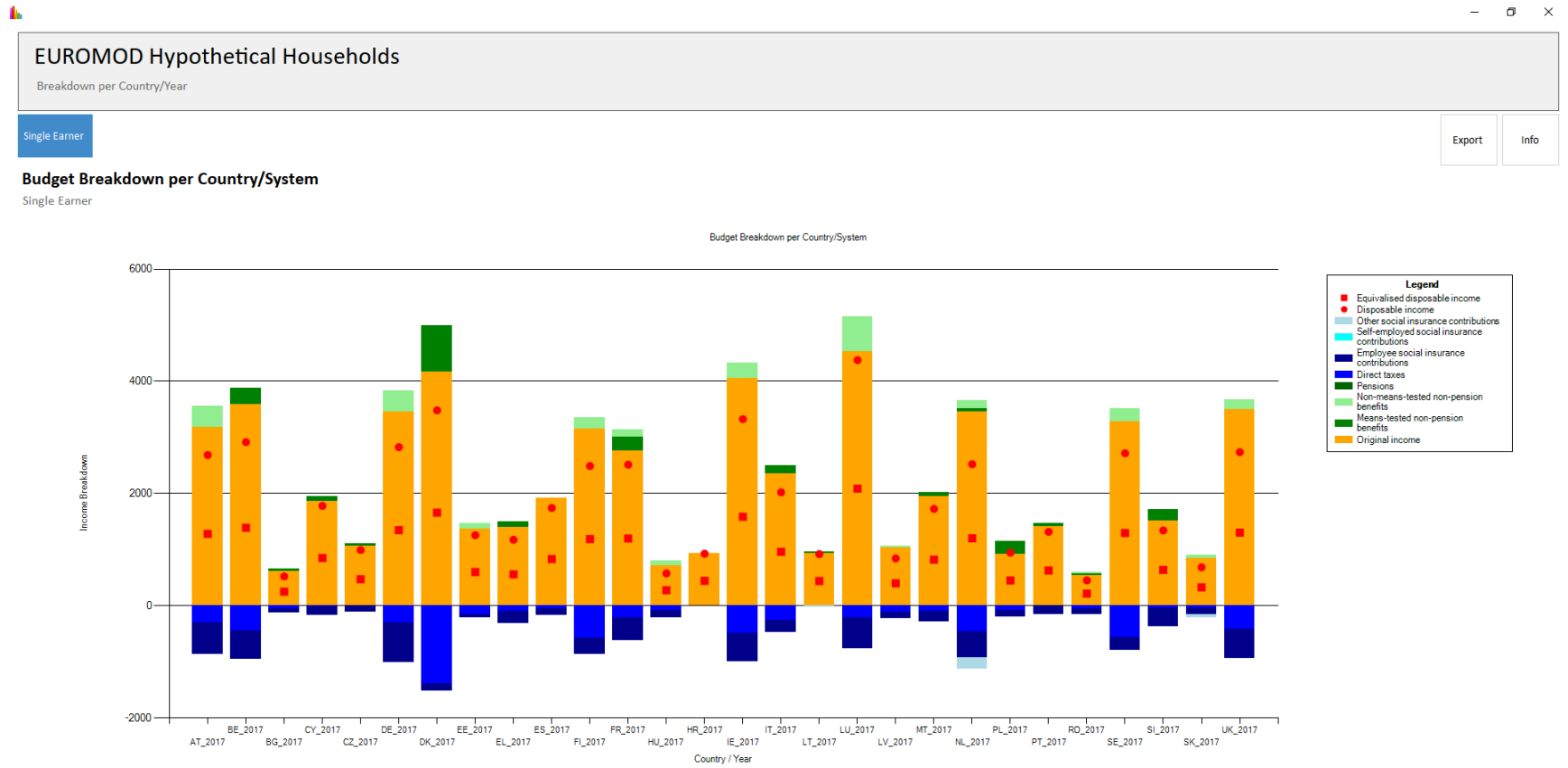
Household Budget Constraints
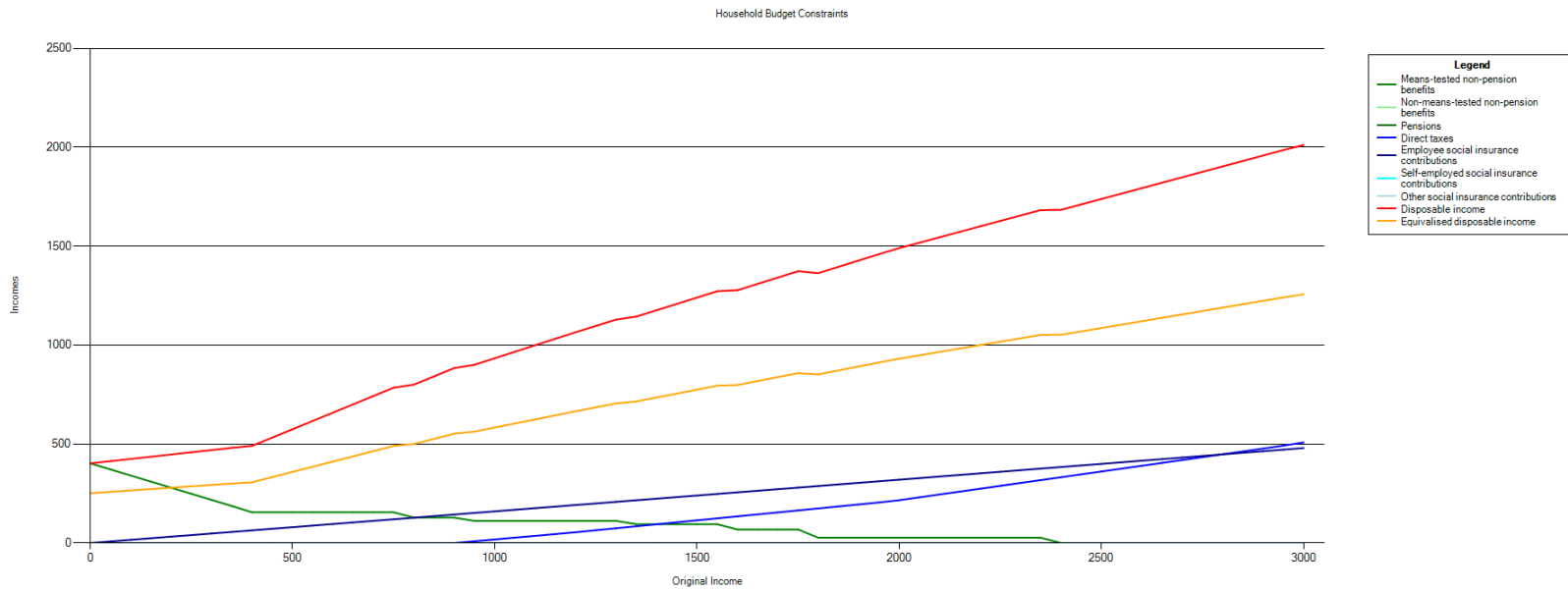
Statistics Wizard

Real-time HHoT wizard example