## **Testing BEAR6 Excel User Interface in the sandbox**

# Cloning the BEAR6 repository [NB: This step will be replaced by a proper Matlab App installation process]

• In a folder of your choice, run the git clone command to obtain a local copy of the repository files

git clone https://github.com/european-central-bank/BEAR-toolbox-6.git

• The git clone command creates a BEAR-toolbox-6 subfolder, and this subfolder will be referred to as the root folder from now

# Preparation for testing in the sandbox [NB: This step will be not needed since users will run BEAR from their own working folders]

- Open Matlab
- Switch to the `BEAR-toolbox-6/tbx/sandbox
- · Make sure the BEAR6 toolbox is on the Matlab path

>> bear6.ping

### Create a local copy of the Excel UX file

- The BEAR-toolbox-6/tbx/sandbox folder contains a BEAR6\_UX.xlsx file.
- For the current testing purposes, some specific meta information (e.g. variable names) is filled in for convenience but will be removed when deployed.
- Make a local copy of this Excel UX file under a different name, still within the sandbox folder, e.g. BEAR-toolbox-6/tbx/sandbox/BEAR6\_UX\_test.xlsx

#### Fill in meta information

- · Open the newly created copy of the Excel UX file.
- Fill in all information for estimating the reduced-form model on sheet Reduced-form meta information
- Fill in all information for indentifying the structural model on sheet Structural meta information
- Save the Excel UX file, and close it. Closing the file is (unfortunately) critical for Matlab/BEAR6 to be able to finalize the file.

The meta information sheets will now be used to generate the meta-dependent templates on some of the estimation and identification sheets.

## Automatically generate meta-dependent templates

After making sure the Excel UX file is closed, run the following command to

bear5.finalizeExcelUX("BEAR6\_UX\_1.xlsx")

where BEAR6\_UX\_1.xlsx stands for the name of your local copy of the Excel UX file created previously.

## Fill in the remaining information

 Open the Excel UX file again, and fill in the remaining information on the estimation and identification sheets.

### Run the model

• Run the model by running the following command

bear6.runFromExcelUX("BEAR6\_UX\_1.xlsx")

where BEAR6\_UX\_1.xlsx stands for the name of your local copy of the Excel UX file.

- The command will run the reduced-form estimation, the structural identification, and all the tasks specified on the "Tasks" sheet in the Excel UX file.
- The results will be saved in the files specified on the "Tasks" sheet in the Excel UX file.