

The EUROMOD platform III

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UNU-WIDER Training course

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Outline

1. Running EUROMOD

The aim of this part is to help you to learn how to Run EUROMOD with one, more, or all existing countries depending on the data that you have/want to use;

2. Summary statistics tool

This part will help you to learn how to produce basic statistics with EUROMOD depending on the system year(s) that you are interested in;

3. Error handlings & documentation

The aim of this part is to help you handling with different errors and to show you what kind of documentation comes with this model;



1. Running EUROMOD



1. Running EUROMOD (1/15)

What does the process “Running” mean?



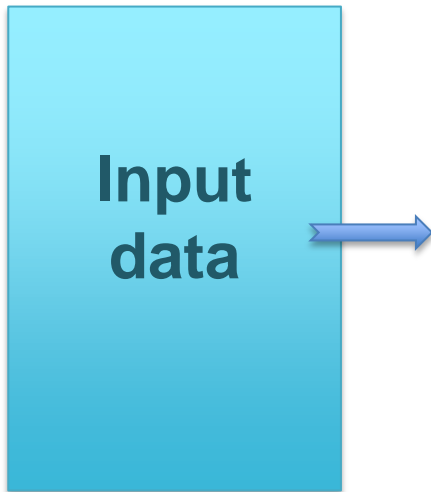
[Input data](#)



	idhh	idperson	idpartner	idmother	idfather	dct	dwt	dag	dec	les	yem	dgn
1	1	101	102	0	0	0	10	65	0	4	0	1
2	1	102	101	0	0	0	10	60	0	7	0	0
3	1	103	0	102	101	0	10	30	0	5	0	1
4	1	104	0	102	101	0	10	28	0	6	157.4188	1
5	2	201	202	0	0	0	10	29	0	3	1075.353	1
6	2	202	201	0	0	0	10	25	0	3	951.3614	0
7	2	203	0	202	201	0	10	3	0	0	0	0
8	2	204	0	202	201	0	10	2	0	0	0	1
9	3	301	302	0	0	0	10	72	0	2	0	1
10	3	302	301	0	0	0	10	59	0	7	0	0
11	4	401	402	0	0	0	10	50	0	3	3614.218	1
12	4	402	401	0	0	0	10	42	0	7	0	0
13	4	403	0	402	401	0	10	14	3	6	0	0
14	4	404	0	402	401	0	10	10	2	6	0	1
15	5	501	0	0	0	0	10	86	0	4	0	1
16	6	601	0	0	0	0	10	36	0	3	2495.051	1
17	7	701	702	0	0	0	10	64	0	4	0	1
18	7	702	701	0	0	0	10	51	0	7	0	0
19	7	703	0	702	701	0	10	26	0	5	937.9483	1
20	8	801	0	0	0	0	10	25	6	5	0	0
21	9	901	902	0	0	0	10	52	0	3	2928.078	1
22	9	902	901	0	0	0	10	48	0	7	0	0
23	10	1001	1002	0	0	0	10	48	0	3	2733.85	1
24	10	1002	1001	0	0	0	10	42	0	3	2711.126	0
25	11	1101	0	0	0	0	10	24	6	3	994.6108	0
26	12	1201	0	0	0	0	10	24	6	6	0	0
27	13	1301	1302	0	0	0	10	40	0	3	8108.625	1
28	13	1302	1301	0	0	0	10	37	0	7	0	0
29	13	1303	0	1302	1301	0	10	13	3	6	0	0
30	13	1304	0	1302	1301	0	10	8	2	6	0	1

1. Running EUROMOD (1/15)

What does the process “Running” mean?



Policy parameters (XML files)

	Policy	Grp/No	SL_demo	Comment
1	Uprate_sl		on	
1.1	Uprate		on	
1.1.1	dataset		sl_demo_v4	
1.1.2	def_factor		1	
1.1.3	poa		1	
1.1.4	yem		1	
1.1.5	yiy		1	
1.1.6	yse		1	
2	ILDef_sl		on	DEF: INCOME CONCEPTS
2.1	Defil		on	
2.1.1	name		is_earns	
2.1.2	yem		+	Employment Income
2.1.3	yse		+	Self-employment income
2.2	Defil		on	original income
2.2.1	name		is_origy	
2.2.2	yem		+	Employment Income
2.2.3	yse		+	Self-employment income
2.2.4	yiy		+	income : investment
2.3	Defil		on	simulated benefits
2.3.1	name		is_bensim	



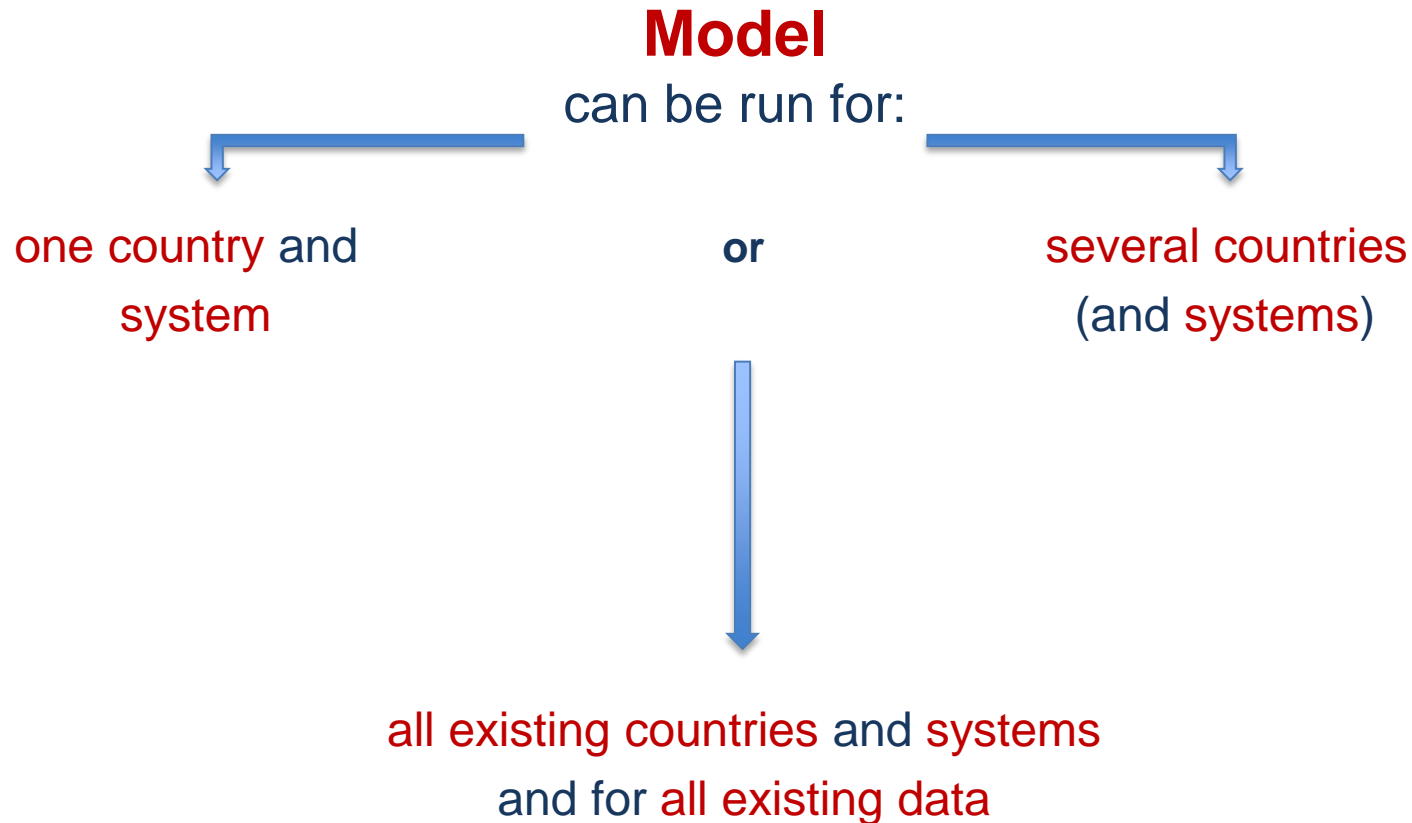
EUROMOD
Output
data

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1. Running EUROMOD (2/15)

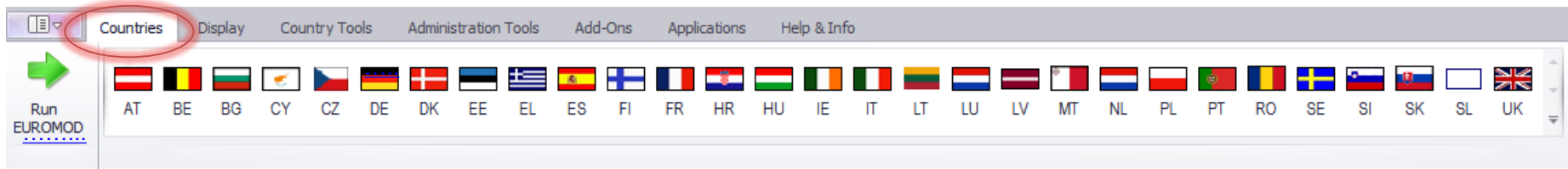


1. Running EUROMOD (3/15)



1. Running EUROMOD (3/15)

When we open EUROMOD, the tab in the ribbon bar – *Countries* will be automatically shown



Two ways of Running EUROMOD:

1. By clicking on one country
2. By clicking on button *Run EUROMOD*



1. Running EUROMOD (4/15)

Run EUROMOD

Countries Display Country Tools Administration Tools Add-Ons Applications Help & Info

Germany loaded

AT BE BG CY CZ DE DK EE EL ES FI FR HR HU IE IT LT LU LV MT NL PL PT RO SE SI SK SL UK

Policy	Grp/No	DE_2007	DE_2008	DE_2009	DE_2010	DE_2011	DE_2012	DE_2013	DE_2014	DE_2015	Comment
setdefault_de		on	on	on	on	on	on	on	on	on	DEF: SET DEFAULT VALUES
UAA_de		switch	switch	switch	switch	switch	switch	switch	switch	switch	SWITCH: Uprating by Average Adjustment for public pensions
uprate_de		on	on	on	on	on	on	on	on	on	DEF: UPDATING FACTORS
ConstDef_de		on	on	on	on	on	on	on	on	on	DEF: constants
ildef_de		on	on	on	on	on	on	on	on	on	DEF: INCOME CONCEPTS
tudef_de		on	on	on	on	on	on	on	on	on	DEF: ASSESSMENT UNITS
yem_de		off	off	off	off	off	off	off	off	off	INC: Minimum Wage
neg_de		on	on	on	on	on	on	on	on	on	INC: recode negative values of incomes to zero
bunct_de		on	on	on	on	on	on	on	on	on	BEN: unemployment benefits I (ALG I) (PART SIMULATED)
pdiss_de		on	on	on	on	on	on	on	on	on	BEN: disability pension from stat. acc. Insurance (Rente der gesetzlichen Unfallversicherung)
tscer_de		on	on	on	on	on	on	on	on	on	SIC: employer social insurance contribution
tscee_de		on	on	on	on	on	on	on	on	on	SIC: employee social insurance contribution
tscse_de		on	on	on	on	on	on	on	on	on	SIC: self-employed social insurance contribution
tscpe_de		on	on	on	on	on	on	on	on	on	SIC: pensioner social insurance contribution
bch00_de		on	on	on	on	on	on	on	on	on	BEN: child benefits (Kindergeld)
bunct_de		on	on	on	on	on	on	on	on	on	BEN: unemployment benefits I (ALG I)(repetition of policy with order 8)
pdiaac_de		on	on	on	on	on	on	on	on	on	BEN: long-term care benefits from statutory accident insurance (Pflegegeld)
bhl_de		on	on	on	on	on	on	on	on	on	BEN: Sickness Benefits (Krankengeld der GKV, prvt. Pflegezusatz- oder Krankentagegeldversicherung)
bmact_de		on	on	on	on	on	on	on	on	on	BEN: maternity leave
bpact_de		on	on	on	on	on	on	on	on	on	BEN: parental leave
tinkt_de		on	on	on	on	on	on	on	on	on	TAX: capital income taxation
tin_de		on	on	on	on	on	on	on	on	on	TAX: income taxation (Einkommensteuer): taxable income
tinit_de		on	on	on	on	on	on	on	on	on	TAX: income taxation (Einkommensteuer): individual taxation
tinjt_de		on	on	on	on	on	on	on	on	on	TAX: income taxation (Einkommensteuer): joint taxation
bed_de		on	on	on	on	on	on	on	on	on	BEN: education benefits (BaFöG)
bho_de		on	on	on	on	on	on	on	on	on	BEN: Housing Benefits (Wohngeld)
bunnc_de		on	on	on	on	on	on	on	on	on	BEN: unemployment benefits II and social benefits (ALG II und Sozialgeld)

DE Textsize: +

1. Running EUROMOD (4/15)

Run EUROMOD

Countries Display Country Tools Administration Tools Add-Ons Applications Help & Info

Germany loaded

AT BE BG CY CZ DE DK EE EL ES FI FR HR HU IE IT LT LU LV MT NL PL PT RO SE SI SK SL UK

Policy	Grp/No	DE_2007	DE_2008	DE_2009	DE_2010	DE_2011	DE_2012	DE_2013	DE_2014	DE_2015	Comment
1	setdefault_de	on	on	on	on	on	on	on	on	on	DEF: SET DEFAULT VALUES
2	UAA_de	switch	switch	switch	switch	switch	switch	switch	switch	switch	SWITCH: Uprating by Average Adjustment for public pensions
3	uprate_de	on	on	on	on	on	on	on	on	on	DEF: UPGRATING FACTORS
4	ConstDef_de	on	on	on	on	on	on	on	on	on	DEF: constants
5	ildef_de	on	on	on	on	on	on	on	on	on	DEF: INCOME CONCEPTS
6	tundef_de	on	on	on	on	on	on	on	on	on	DEF: ASSESSMENT UNITS
7	yem_de	on	on	on	on	on	on	on	on	on	INC: Minimum Wage
8	neg_de	on	on	on	on	on	on	on	on	on	INC: recode negative values of incomes to zero
9	bunct_de	on	on	on	on	on	on	on	on	on	BEN: unemployment benefits I (ALG I) (PART SIMULATED)
10	pdiss_de	on	on	on	on	on	on	on	on	on	BEN: disability pension from stat. acc. Insurance (Rente der gesetzlichen Unfallversicherung)
11	tscer_de	on	on	on	on	on	on	on	on	on	SIC: employer social insurance contribution
12	tscee_de	on	on	on	on	on	on	on	on	on	SIC: employee social insurance contribution
13	tscse_de	on	on	on	on	on	on	on	on	on	SIC: self-employed social insurance contribution
14	tsce_de	on	on	on	on	on	on	on	on	on	SIC: pensioner social insurance contribution
15	bch00_de	on	on	on	on	on	on	on	on	on	BEN: child benefits (Kindergeld)
16	bunct_de	on	on	on	on	on	on	on	on	on	BEN: unemployment benefits I (ALG I)(repetition of policy with order 8)
17	pdiac_de	on	on	on	on	on	on	on	on	on	BEN: long-term care benefits from statutory accident insurance (Pflegegeld)
18	bhl_de	on	on	on	on	on	on	on	on	on	BEN: Sickness Benefits (Krankengeld der GKV, prvt. Pflegezusatz- oder Krankentagegeldversicherung)
19	bmact_de	on	on	on	on	on	on	on	on	on	BEN: maternity leave
20	bpact_de	on	on	on	on	on	on	on	on	on	BEN: parental leave
21	tinkt_de	on	on	on	on	on	on	on	on	on	TAX: capital income taxation
22	tin_de	on	on	on	on	on	on	on	on	on	TAX: income taxation (Einkommensteuer): taxable income
23	tinit_de	on	on	on	on	on	on	on	on	on	TAX: income taxation (Einkommensteuer): individual taxation
24	tinjt_de	on	on	on	on	on	on	on	on	on	TAX: income taxation (Einkommensteuer): joint taxation
25	bed_de	on	on	on	on	on	on	on	on	on	BEN: education benefits (BaFöG)
26	bho_de	on	on	on	on	on	on	on	on	on	BEN: Housing Benefits (Wohngeld)
27	bunnc_de	on	on	on	on	on	on	on	on	on	BEN: unemployment benefits II and social benefits (ALG II und Sozialgeld)

Run EUROMOD

Main View / Filter / Add-Ons Advanced Settings

Countries Systems Add-ons

Select countries

Run	Country	System	Dataset	Separate Run
<input type="checkbox"/>	DE	DE_2007	DE_2008_a5 (Best Match)	<input type="checkbox"/>
<input type="checkbox"/>	DE	DE_2008	DE_2008_a5 (Best Match)	<input type="checkbox"/>
<input type="checkbox"/>	DE	DE_2009	DE_2010_a5 (Best Match)	<input type="checkbox"/>
<input type="checkbox"/>	DE	DE_2010	DE_2010_a5 (Best Match)	<input type="checkbox"/>
<input type="checkbox"/>	DE	DE_2011	DE_2012_a2 (Best Match)	<input type="checkbox"/>
<input type="checkbox"/>	DE	DE_2012	DE_2012_a2 (Best Match)	<input type="checkbox"/>
<input type="checkbox"/>	DE	DE_2013	DE_2012_a2 (Best Match)	<input type="checkbox"/>
<input type="checkbox"/>	DE	DE_2014	DE_2012_a2 (Best Match)	<input type="checkbox"/>
<input type="checkbox"/>	DE	DE_2015	DE_2012_a2 (Best Match)	<input type="checkbox"/>

Output path C:\Users\svujac\Desktop\NRR\EuromodFiles_G3.0+output\

Germany DE

Textsize: +

1. Running EUROMOD (4/15)

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Run EUROMOD

Countries: Germany (loaded)

AT BE BG CY CZ DE DK EE EL ES FI FR HR HU IE IT LT LU LV MT NL PL PT RO SE SI SK SL UK

Policy	Grp/No	DE_2007	DE_2008	DE_2009	DE_2010	DE_2011	DE_2012	DE_2013	DE_2014	DE_2015	Comment
1	setdefault_de	on	on	on	on	on	on	on	on	on	DEF: SET DEFAULT VALUES
2	UAA_de	switch	switch	switch	switch	switch	switch	switch	switch	switch	SWITCH: Uprating by Average Adjustment for public pensions
3	uprate_de	on	on	on	on	on	on	on	on	on	DEF: UPGRATING FACTORS
4	ConstDef_de	on	on	on	on	on	on	on	on	on	DEF: constants
5	ildef_de	on	on	on	on	on	on	on	on	on	DEF: INCOME CONCEPTS
6	tundef_de	on	on	on	on	on	on	on	on	on	DEF: ASSESSMENT UNITS
7	yem_de	on	on	on	on	on	on	on	on	on	INC: Minimum Wage
8	neg_de	on	on	on	on	on	on	on	on	on	INC: recode negative values of incomes to zero
9	bunct_de	on	on	on	on	on	on	on	on	on	BEN: unemployment benefits I (ALG I) (PART SIMULATED)
10	pdiss_de	on	on	on	on	on	on	on	on	on	BEN: disability pension from stat. acc. Insurance (Rente der gesetzlichen Unfallversicherung)
11	tscer_de	on	on	on	on	on	on	on	on	on	SIC: employer social insurance contribution
12	tscee_de	on	on	on	on	on	on	on	on	on	SIC: employee social insurance contribution
13	tscae_de	on	on	on	on	on	on	on	on	on	SIC: self-employed social insurance contribution
14	tscae_de	on	on	on	on	on	on	on	on	on	SIC: pensioner social insurance contribution
15	bch00_de	on	on	on	on	on	on	on	on	on	BEN: child benefits (Kindergeld)
16	bunct_de	on	on	on	on	on	on	on	on	on	BEN: unemployment benefits I (ALG I)(repetition of policy with order 8)
17	pdiac_de	on	on	on	on	on	on	on	on	on	BEN: long-term care benefits from statutory accident insurance (Pflegegeld)
18	bhl_de	on	on	on	on	on	on	on	on	on	BEN: Sickness Benefits (Krankengeld der GKV, prvt. Pflegezusatz- oder Krankentagegeldversicherung)
19	bmact_de	on	on	on	on	on	on	on	on	on	BEN: maternity leave
20	bplct_de	on	on	on	on	on	on	on	on	on	BEN: parental leave
21	tinkt_de	on	on	on	on	on	on	on	on	on	TAX: capital income taxation
22	tin_de	on	on	on	on	on	on	on	on	on	TAX: income taxation (Einkommensteuer): taxable income
23	tinit_de	on	on	on	on	on	on	on	on	on	TAX: income taxation (Einkommensteuer): individual taxation
24	tinjt_de	on	on	on	on	on	on	on	on	on	TAX: income taxation (Einkommensteuer): joint taxation
25	bed_de	on	on	on	on	on	on	on	on	on	BEN: education benefits (BaFöG)
26	bho_de	on	on	on	on	on	on	on	on	on	BEN: Housing Benefits (Wohngeld)
27	bunnc_de	on	on	on	on	on	on	on	on	on	BEN: unemployment benefits II and social benefits (ALG II und Sozialgeld)

Run EUROMOD

Main View / Filter / Add-Ons Advanced Settings

AT BE BG CY CZ DE DK EE EL ES FI FR HR HU IE IT LT LU LV MT NL PL PT RO SE SI SK SL UK

Select countries

Run	Country	System	Dataset	Separate Run
<input type="checkbox"/>	DE	DE_2007	DE_2008_a5 (Best Match)	<input type="checkbox"/>
<input type="checkbox"/>	DE	DE_2008	DE_2008_a5 (Best Match)	<input type="checkbox"/>
<input type="checkbox"/>	DE	DE_2009	DE_2010_a5 (Best Match)	<input type="checkbox"/>
<input type="checkbox"/>	DE	DE_2010	DE_2010_a5 (Best Match)	<input type="checkbox"/>
<input type="checkbox"/>	DE	DE_2011	DE_2012_a2 (Best Match)	<input type="checkbox"/>
<input type="checkbox"/>	DE	DE_2012	DE_2012_a2 (Best Match)	<input type="checkbox"/>
<input type="checkbox"/>	DE	DE_2013	DE_2012_a2 (Best Match)	<input type="checkbox"/>
<input type="checkbox"/>	DE	DE_2014	DE_2012_a2 (Best Match)	<input type="checkbox"/>
<input type="checkbox"/>	DE	DE_2015	DE_2012_a2 (Best Match)	<input type="checkbox"/>
		training_data		
		DE_2012_a2 (Best Match)		
		DE_2010_a5		
		DE_2008_a5		

Output path: C:\Users\svujac\Desktop\NRR\EuromodFiles_G3.0+output\

1. Running EUROMOD (5/15)

View / Filter / Add-Ons

Countries Systems Add-ons

Select all ... / Unselect all ...

Run

Run	Country	System	Dataset	Separate Run
<input type="checkbox"/>	AT	at_2007	AT_2008_a6 (Best Match)	<input type="checkbox"/>
<input type="checkbox"/>	AT	at_2008	AT_2008_a6 (Best Match)	<input type="checkbox"/>
<input type="checkbox"/>	AT	at_2009	AT_2010_a3 (Best Match)	<input type="checkbox"/>
<input type="checkbox"/>	AT	at_2010	AT_2010_a3 (Best Match)	<input type="checkbox"/>
<input type="checkbox"/>	AT	at_2011	AT_2012_a2 (Best Match)	<input type="checkbox"/>
<input type="checkbox"/>	AT	at_2012	AT_2012_a2 (Best Match)	<input type="checkbox"/>
<input type="checkbox"/>	AT	at_2013	AT_2012_a2 (Best Match)	<input type="checkbox"/>
<input type="checkbox"/>	AT	at_2014	AT_2012_a2 (Best Match)	<input type="checkbox"/>
<input type="checkbox"/>	AT	at_2015	AT_2012_a2 (Best Match)	<input type="checkbox"/>
<input type="checkbox"/>	BE	BE_2005	BE_2006_a3 (Best Match)	<input type="checkbox"/>
<input type="checkbox"/>	BE	BE_2006	BE_2007_a3 (Best Match)	<input type="checkbox"/>
<input type="checkbox"/>	BE	BE_2007	BE_2008_a1 (Best Match)	<input type="checkbox"/>
<input type="checkbox"/>	BE	BE_2008	BE_2008_a1 (Best Match)	<input type="checkbox"/>
<input type="checkbox"/>	BE	BE_2009	BE_2010_a2 (Best Match)	<input type="checkbox"/>
<input type="checkbox"/>	BE	BE_2010	BE_2010_a2 (Best Match)	<input type="checkbox"/>
<input type="checkbox"/>	BE	BE_2011	BE_2012_a2 (Best Match)	<input type="checkbox"/>
<input type="checkbox"/>	BE	BE_2012	BE_2012_a2 (Best Match)	<input type="checkbox"/>
<input type="checkbox"/>	BE	BE_2013	BE_2012_a2 (Best Match)	<input type="checkbox"/>
<input type="checkbox"/>	BE	BE_2014	BE_2012_a2 (Best Match)	<input type="checkbox"/>
<input type="checkbox"/>	BE	BE_2015	BE_2012_a2 (Best Match)	<input type="checkbox"/>
<input type="checkbox"/>	BG	BG_2007	BG_2008_b5 (Best Match)	<input type="checkbox"/>
<input type="checkbox"/>	BG	BG_2008	BG_2008_b5 (Best Match)	<input type="checkbox"/>

Output path C:\Users\svujac\Desktop\WRR\EuromodFiles_G3.0+\output\

Select all countries/systems

Unselect all countries/systems

1. Running EUROMOD (5/15)

Run EUROMOD

Main View / Filter / Add-Ons **Advanced Settings**

Show separate run options
 Separate run: select all
 Filter Datasets
 Best Match Only

Show selected HH options
 Separate run: unselect all
 Filter Systems
 Regular Expression

View / Select Filter View Add-Ons View Policy Switches ▾

Run	Country	System	Dataset	Separate Run
<input type="checkbox"/>	AT	at_2007	AT_2008_a6 (Best Match)	<input type="checkbox"/>
<input type="checkbox"/>	AT	at_2008	AT_2008_a6 (Best Match)	<input type="checkbox"/>
<input type="checkbox"/>	AT	at_2009	AT_2010_a3 (Best Match)	<input type="checkbox"/>
<input type="checkbox"/>	AT	at_2010	AT_2010_a3 (Best Match)	<input type="checkbox"/>
<input type="checkbox"/>	AT	at_2011	AT_2012_a2 (Best Match)	<input type="checkbox"/>
<input type="checkbox"/>	AT	at_2012	AT_2012_a2 (Best Match)	<input type="checkbox"/>
<input type="checkbox"/>	AT	at_2013	AT_2012_a2 (Best Match)	<input type="checkbox"/>
<input type="checkbox"/>	AT	at_2014	AT_2012_a2 (Best Match)	<input type="checkbox"/>
<input type="checkbox"/>	AT	at_2015	AT_2012_a2 (Best Match)	<input type="checkbox"/>
<input type="checkbox"/>	BE	BE_2005	BE_2006_a3 (Best Match)	<input type="checkbox"/>
<input type="checkbox"/>	BE	BE_2006	BE_2007_a3 (Best Match)	<input type="checkbox"/>
<input type="checkbox"/>	BE	BE_2007	BE_2008_a1 (Best Match)	<input type="checkbox"/>
<input type="checkbox"/>	BE	BE_2008	BE_2008_a1 (Best Match)	<input type="checkbox"/>
<input type="checkbox"/>	BE	BE_2009	BE_2010_a2 (Best Match)	<input type="checkbox"/>
<input type="checkbox"/>	BE	BE_2010	BE_2010_a2 (Best Match)	<input type="checkbox"/>
<input type="checkbox"/>	BE	BE_2011	BE_2012_a2 (Best Match)	<input type="checkbox"/>
<input type="checkbox"/>	BE	BE_2012	BE_2012_a2 (Best Match)	<input type="checkbox"/>
<input type="checkbox"/>	BE	BE_2013	BE_2012_a2 (Best Match)	<input type="checkbox"/>
<input type="checkbox"/>	BE	BE_2014	BE_2012_a2 (Best Match)	<input type="checkbox"/>
<input type="checkbox"/>	BE	BE_2015	BE_2012_a2 (Best Match)	<input type="checkbox"/>
<input type="checkbox"/>	BG	BG_2007	BG_2008_b5 (Best Match)	<input type="checkbox"/>
<input type="checkbox"/>	BG	BG_2008	BG_2008_b5 (Best Match)	<input type="checkbox"/>

Output path C:\Users\svujac\Desktop\NRR\EuromodFiles_G3.0+\output\

1. Running EUROMOD (6/15)

Examples – using *training data*

1. Running **one country** and **one system** – Austria 2014
2. Running **one country** and **all systems** – Greece
3. Running **two countries** and **one system** – Bulgaria and Sweden (2015)
4. Running **all countries** and **all systems**

*** How to use filters to make the process easier

See/show simple exercise in EUROMOD



1. Running EUROMOD (7/15)

Example 1: Austria, system = 2014

Run EUROMOD

Countries Display Country Tools Administration Tools Add-Ons Applications Help & Info

Austria AT BE BG CY CZ DE DK EE EL ES FI FR HR HU IE IT LT LU LV MT NL PL PT RO SE SI SK SL UK

loaded

Policy	Grp/No	at_2007	at_2008	at_2009	at_2010	at_2011	at_2012	at_2013	at_2014	at_2015	Comment
1	▶ isetdefault_at	on	on	on	on	on	on	on	on	on	DEF: SET DEFAULT VALUES
2	▶ uprate_at	on	on	on	on	on	on	on	on	on	DEF: UPDATING FACTORS
3	▶ ConstDef_at										DEF: CONSTANTS
4	▶ random_at										DEF: Defining a random number for assigning families to different schemes in bcc00_s
5	▶ ildef_at										DEF: INCOME CONCEPTS
6	▶ tundef_at										DEF: ASSESSMENT UNITS
7	▶ yem_at										DEF: minimum wage (Minimumgehalt)
8	▶ neg_at										DEF: recode negative self-employment values to zero
9	▶ tscer_at										SIC: social insurance contributions employer (Arbeitgeberbeitraege zur Sozialversicherung)
10	▶ tscee_at										SIC: social insurance contributions employee (Arbeitnehmerbeitraege zur Sozialversicherung)
11	▶ tscse_at										SIC: social insurance contributions self-employed (Beitraege zur Sozialversicherung fuer Selbststaendige)
12	▶ bch00_at										BEN: Main child benefit (Familienbeihilfe)
13	▶ pch00_at										BEN: child bonus for pensioners (Kinderzuschuss)
14	▶ pchcs_at										BEN: child bonus for civil servant pensioners (Kinderzulage)
15	▶ bunct_at										BEN: unemployment benefit (Arbeitslosengeld) (PART SIMULATED)
16	▶ pmmtu_at										BEN: minimum pension top-up (Ausgleichszulage)
17	▶ pcstu_at										BEN: minimum pension top-up for civil servants (Ergaenzungszulage)
18	▶ tsce_at										SIC: social insurance contributions pensioner (Beitraege zur Sozialversicherung fuer Rentner)
19	▶ bch00_at										BEN: Main child benefit (Familienbeihilfe)(repetition of policy with order 13)
20	▶ tin_at										TAX: income tax (Einkommenssteuer)
21	▶ bunnc_at										BEN: Unemployment assistance (Notstandshilfe)

Run EUROMOD

Main View / Filter / Add-Ons Advanced Settings

Countries Systems Add-ons

Select countries

Run	Country	System	Dataset	Separate Run
<input type="checkbox"/>	AT	at_2007	AT_2008_a6 (Best Match)	<input type="checkbox"/>
<input type="checkbox"/>	AT	at_2008	AT_2008_a6 (Best Match)	<input type="checkbox"/>
<input type="checkbox"/>	AT	at_2009	AT_2010_a3 (Best Match)	<input type="checkbox"/>
<input type="checkbox"/>	AT	at_2010	AT_2010_a3 (Best Match)	<input type="checkbox"/>
<input type="checkbox"/>	AT	at_2011	AT_2012_a2 (Best Match)	<input type="checkbox"/>
<input type="checkbox"/>	AT	at_2012	AT_2012_a2 (Best Match)	<input type="checkbox"/>
<input type="checkbox"/>	AT	at_2013	AT_2012_a2 (Best Match)	<input type="checkbox"/>
<input checked="" type="checkbox"/>	AT	at_2014	training_data	<input type="checkbox"/>
<input type="checkbox"/>	AT	at_2015	AT_2012_a2 (Best Match)	<input type="checkbox"/>

Output path C:\Users\svujac\Desktop\WRR\EuromodFiles_G3.0+\output\

1. Running EUROMOD (7/15)

Example 1: Austria, system = 2014

Run dialog

Configuration	Status	Time	... Show	Stop
training_data (at_2014)	running	16:45:06 -	Run Log	Error Log

What data and system are running

Control display of run log and error log

Run/Error Log

	at_2012	at_2013
1	on	on
2	on	on
3	on	on
4	on	on
5	on	on
6	on	on
7	off	off
8	on	on
9	on	on
10	on	on
11	on	on
12	on	on
13	off	off
14	off	off
15	on	on
16	on	on
17	on	on

1. Running EUROMOD (8/15)

Example 2: Greece, all systems

Run EUROMOD

Main **View / Filter / Add-Ons** Advanced Settings

AT BE BG CY CZ DE DK EE EL ES FI FR HR HU IE IT LT LU LV MT NL PL PT RO SE SI SK SL UK

Select countries

Countries Countries
 Systems Systems
 Add-ons Add-ons

Select all ... / Unselect all ...

Run

Run	Country	System	Dataset	Separate Run
<input type="checkbox"/>	EL	EL_2005	EL_2006_a4 (Best Match)	<input type="checkbox"/>
<input type="checkbox"/>	EL	EL_2006	EL_2007_a4 (Best Match)	<input type="checkbox"/>
<input type="checkbox"/>	EL	EL_2007	EL_2008_a4 (Best Match)	<input type="checkbox"/>
<input type="checkbox"/>	EL	EL_2008	EL_2008_a4 (Best Match)	<input type="checkbox"/>
<input type="checkbox"/>	EL	EL_2009	EL_2010_a3 (Best Match)	<input type="checkbox"/>
<input type="checkbox"/>	EL	EL_2010	EL_2010_a3 (Best Match)	<input type="checkbox"/>
<input type="checkbox"/>	EL	EL_2011	EL_2012_a2 (Best Match)	<input type="checkbox"/>
<input type="checkbox"/>	EL	EL_2012	EL_2012_a2 (Best Match)	<input type="checkbox"/>
<input type="checkbox"/>	EL	EL_2013	EL_2012_a2 (Best Match)	<input type="checkbox"/>
<input type="checkbox"/>	EL	EL_2014	EL_2012_a2 (Best Match)	<input type="checkbox"/>
<input type="checkbox"/>	EL	EL_2015	EL_2012_a2 (Best Match)	<input type="checkbox"/>

1. Running EUROMOD (8/15)

Example 2: Greece, all systems

Run EUROMOD

Main View / Filter / Add-Ons Advanced Settings

Show separate run options Separate run: select all Filter Datasets ***training*** Best Match Only

Show selected HH options Separate run: unselect all Filter Systems Regular Expression

View / Select Filter View Add-Ons View Policy Switches

Run	Country	System	Dataset	Separate Run
<input checked="" type="checkbox"/>	EL	EL_2005	training_data	<input type="checkbox"/>
<input checked="" type="checkbox"/>	EL	EL_2006	training_data	<input type="checkbox"/>
<input checked="" type="checkbox"/>	EL	EL_2007	training_data	<input type="checkbox"/>
<input checked="" type="checkbox"/>	EL	EL_2008	training_data	<input type="checkbox"/>
<input checked="" type="checkbox"/>	EL	EL_2009	training_data	<input type="checkbox"/>
<input checked="" type="checkbox"/>	EL	EL_2010	training_data	<input type="checkbox"/>
<input checked="" type="checkbox"/>	EL	EL_2011	training_data	<input type="checkbox"/>
<input checked="" type="checkbox"/>	EL	EL_2012	training_data	<input type="checkbox"/>
<input checked="" type="checkbox"/>	EL	EL_2013	training_data	<input type="checkbox"/>
<input checked="" type="checkbox"/>	EL	EL_2014	training_data	<input type="checkbox"/>
<input checked="" type="checkbox"/>	EL	EL_2015	training_data	<input type="checkbox"/>

1. Running EUROMOD (9/15)

Example 3: Two countries (Bulgaria and Sweden), one system (2015)

Run EUROMOD

Main View / Filter / Add-Ons Advanced Settings

AT BE BG CY CZ DE DK EE EL ES FI FR HR HU IE IT LT LU LV MT NL PL PT RO SE SI SK SL UK

Select countries

Countries Countries Systems Systems Add-ons Add-ons

Run

Select all ... / Unselect all ...

Run	Country	System	Dataset	Separate Run
<input type="checkbox"/>	AT	at_2007	AT_2008_a6 (Best Match)	<input type="checkbox"/>
<input type="checkbox"/>	AT	at_2008	AT_2008_a6 (Best Match)	<input type="checkbox"/>
<input type="checkbox"/>	AT	at_2009	AT_2010_a3 (Best Match)	<input type="checkbox"/>
<input type="checkbox"/>	AT	at_2010	AT_2010_a3 (Best Match)	<input type="checkbox"/>
<input type="checkbox"/>	AT	at_2011	AT_2012_a2 (Best Match)	<input type="checkbox"/>
<input type="checkbox"/>	AT	at_2012	AT_2012_a2 (Best Match)	<input type="checkbox"/>
<input type="checkbox"/>	AT	at_2013	AT_2012_a2 (Best Match)	<input type="checkbox"/>
<input type="checkbox"/>	AT	at_2014	AT_2012_a2 (Best Match)	<input type="checkbox"/>
<input type="checkbox"/>	AT	at_2015	AT_2012_a2 (Best Match)	<input type="checkbox"/>
<input type="checkbox"/>	BE	BE_2005	BE_2006_a3 (Best Match)	<input type="checkbox"/>
<input type="checkbox"/>	BE	BE_2006	BE_2007_a3 (Best Match)	<input type="checkbox"/>
<input type="checkbox"/>	BE	BE_2007	BE_2008_a1 (Best Match)	<input type="checkbox"/>
<input type="checkbox"/>	BE	BE_2008	BE_2008_a1 (Best Match)	<input type="checkbox"/>
<input type="checkbox"/>	BE	BE_2009	BE_2010_a2 (Best Match)	<input type="checkbox"/>
<input type="checkbox"/>	BE	BE_2010	BE_2010_a2 (Best Match)	<input type="checkbox"/>
<input type="checkbox"/>	BE	BE_2011	BE_2012_a2 (Best Match)	<input type="checkbox"/>
<input type="checkbox"/>	BE	BE_2012	BE_2012_a2 (Best Match)	<input type="checkbox"/>
<input type="checkbox"/>	BE	BE_2013	BE_2012_a2 (Best Match)	<input type="checkbox"/>
<input type="checkbox"/>	BE	BE_2014	BE_2012_a2 (Best Match)	<input type="checkbox"/>
<input type="checkbox"/>	BE	BE_2015	BE_2012_a2 (Best Match)	<input type="checkbox"/>
<input type="checkbox"/>	BG	BG_2007	BG_2008_b5 (Best Match)	<input type="checkbox"/>
<input type="checkbox"/>	BG	BG_2008	BG_2008_b5 (Best Match)	<input type="checkbox"/>

1. Running EUROMOD (9/15)

Example 3: Two countries (Bulgaria and Sweden), one system (2015)

The screenshot displays the 'Run EUROMOD' application window. The title bar reads 'Run EUROMOD'. Below the title bar are three tabs: 'Main', 'View / Filter / Add-Ons', and 'Advanced Settings'. The 'Main' tab is active, showing a horizontal list of country flags and their corresponding three-letter codes: AT, BE, BG, CY, CZ, DE, DK, EE, EL, ES, FI, FR, HR, HU, IE, IT, LT, LU, LV, MT, NL, PL, PT, RO, SE, SI, SK, SL, UK. The flags for Bulgaria (BG) and Sweden (SE) are circled in red. Below the list is the text 'Select countries'. To the right of the list are three columns of controls: 'Countries' (with a red circle icon), 'Systems' (with a red circle icon), and 'Add-ons' (with a green plus icon). Each column has a 'Select all ... / Unselect all ...' option. A large green arrow labeled 'Run' is positioned to the right of these controls. Below the controls is a table with the following headers: 'Run', 'Country', 'System', 'Dataset', and 'Separate Run'. The table body is currently empty.

1. Running EUROMOD (9/15)

Example 3: Two countries (Bulgaria and Sweden), one system (2015)

The screenshot shows the 'Run EUROMOD' application window. The interface includes a menu bar with 'Main', 'View / Filter / Add-Ons', and 'Advanced Settings'. Below the menu bar are several control panels:

- Show separate run options:** Show separate run options, Show selected HH options.
- Separate run options:** Separate run: select all, Separate run: unselect all.
- Filter Datasets:** An empty text input field.
- Filter Systems:** A text input field containing '*2015*', which is circled in red.
- Filter Options:** Best Match Only, Regular Expression.
- View Add-Ons:** A dropdown menu.
- View Policy Switches:** A button with a dropdown arrow.

Below the control panels is a table with the following columns: Run, Country, System, Dataset, and Separate Run. The table contains two rows, both of which are selected (checked in the 'Run' column):

Run	Country	System	Dataset	Separate Run
<input checked="" type="checkbox"/>	BG	BG_2015	BG_2012_b3 (Best Match)	<input type="checkbox"/>
<input checked="" type="checkbox"/>	SE	SE_2015	SE_2012_a1 (Best Match)	<input type="checkbox"/>

1. Running EUROMOD (10/15)

Example 4: All countries and all systems

Run EUROMOD

Main View / Filter / Add-Ons Advanced Settings

AT BE BG CY CZ DE DK EE EL ES FI FR HR HU IE IT LT LU LV MT NL PL PT RO SE SI SK SL UK

Select countries

Countries Countries
 Systems Systems
 Add-ons Add-ons

Select all ... / Unselect all ...

Run

Run	Country	System	Dataset	Separate Run
<input type="checkbox"/>	AT	at_2007	AT_2008_a6 (Best Match)	<input type="checkbox"/>
<input type="checkbox"/>	AT	at_2008	AT_2008_a6 (Best Match)	<input type="checkbox"/>
<input type="checkbox"/>	AT	at_2009	AT_2010_a3 (Best Match)	<input type="checkbox"/>
<input type="checkbox"/>	AT	at_2010	AT_2010_a3 (Best Match)	<input type="checkbox"/>
<input type="checkbox"/>	AT	at_2011	AT_2012_a2 (Best Match)	<input type="checkbox"/>
<input type="checkbox"/>	AT	at_2012	AT_2012_a2 (Best Match)	<input type="checkbox"/>
<input type="checkbox"/>	AT	at_2013	AT_2012_a2 (Best Match)	<input type="checkbox"/>
<input type="checkbox"/>	AT	at_2014	AT_2012_a2 (Best Match)	<input type="checkbox"/>
<input type="checkbox"/>	AT	at_2015	AT_2012_a2 (Best Match)	<input type="checkbox"/>
<input type="checkbox"/>	BE	BE_2005	BE_2006_a3 (Best Match)	<input type="checkbox"/>
<input type="checkbox"/>	BE	BE_2006	BE_2007_a3 (Best Match)	<input type="checkbox"/>
<input type="checkbox"/>	BE	BE_2007	BE_2008_a1 (Best Match)	<input type="checkbox"/>
<input type="checkbox"/>	BE	BE_2008	BE_2008_a1 (Best Match)	<input type="checkbox"/>
<input type="checkbox"/>	BE	BE_2009	BE_2010_a2 (Best Match)	<input type="checkbox"/>
<input type="checkbox"/>	BE	BE_2010	BE_2010_a2 (Best Match)	<input type="checkbox"/>
<input type="checkbox"/>	BE	BE_2011	BE_2012_a2 (Best Match)	<input type="checkbox"/>
<input type="checkbox"/>	BE	BE_2012	BE_2012_a2 (Best Match)	<input type="checkbox"/>
<input type="checkbox"/>	BE	BE_2013	BE_2012_a2 (Best Match)	<input type="checkbox"/>
<input type="checkbox"/>	BE	BE_2014	BE_2012_a2 (Best Match)	<input type="checkbox"/>
<input type="checkbox"/>	BE	BE_2015	BE_2012_a2 (Best Match)	<input type="checkbox"/>
<input type="checkbox"/>	BG	BG_2007	BG_2008_b5 (Best Match)	<input type="checkbox"/>
<input type="checkbox"/>	BG	BG_2008	BG_2008_b5 (Best Match)	<input type="checkbox"/>

1. Running EUROMOD (10/15)

Example 4: All countries and all systems

Run EUROMOD

Main View / Filter / Add-Ons Advanced Settings

AT BE BG CY CZ DE DK EE EL ES FI FR HR HU IE IT LT LU LV MT NL PL PT RO SE SI SK SL UK

Select countries

Countries Countries
Systems Systems
Add-ons Add-ons

Select all ... / Unselect all ...

Run

Run	Country	System	Dataset	Separate Run
<input checked="" type="checkbox"/>	AT	at_2007	AT_2008_a6 (Best Match)	<input type="checkbox"/>
<input checked="" type="checkbox"/>	AT	at_2008	AT_2008_a6 (Best Match)	<input type="checkbox"/>
<input checked="" type="checkbox"/>	AT	at_2009	AT_2010_a3 (Best Match)	<input type="checkbox"/>
<input checked="" type="checkbox"/>	AT	at_2010	AT_2010_a3 (Best Match)	<input type="checkbox"/>
<input checked="" type="checkbox"/>	AT	at_2011	AT_2012_a2 (Best Match)	<input type="checkbox"/>
<input checked="" type="checkbox"/>	AT	at_2012	AT_2012_a2 (Best Match)	<input type="checkbox"/>
<input checked="" type="checkbox"/>	AT	at_2013	AT_2012_a2 (Best Match)	<input type="checkbox"/>
<input checked="" type="checkbox"/>	AT	at_2014	AT_2012_a2 (Best Match)	<input type="checkbox"/>
<input checked="" type="checkbox"/>	AT	at_2015	AT_2012_a2 (Best Match)	<input type="checkbox"/>
<input checked="" type="checkbox"/>	BE	BE_2005	BE_2006_a3 (Best Match)	<input type="checkbox"/>
<input checked="" type="checkbox"/>	BE	BE_2006	BE_2007_a3 (Best Match)	<input type="checkbox"/>
<input checked="" type="checkbox"/>	BE	BE_2007	BE_2008_a1 (Best Match)	<input type="checkbox"/>
<input checked="" type="checkbox"/>	BE	BE_2008	BE_2008_a1 (Best Match)	<input type="checkbox"/>
<input checked="" type="checkbox"/>	BE	BE_2009	BE_2010_a2 (Best Match)	<input type="checkbox"/>
<input checked="" type="checkbox"/>	BE	BE_2010	BE_2010_a2 (Best Match)	<input type="checkbox"/>
<input checked="" type="checkbox"/>	BE	BE_2011	BE_2012_a2 (Best Match)	<input type="checkbox"/>
<input checked="" type="checkbox"/>	BE	BE_2012	BE_2012_a2 (Best Match)	<input type="checkbox"/>
<input checked="" type="checkbox"/>	BE	BE_2013	BE_2012_a2 (Best Match)	<input type="checkbox"/>
<input checked="" type="checkbox"/>	BE	BE_2014	BE_2012_a2 (Best Match)	<input type="checkbox"/>
<input checked="" type="checkbox"/>	BE	BE_2015	BE_2012_a2 (Best Match)	<input type="checkbox"/>
<input checked="" type="checkbox"/>	BG	BG_2007	BG_2008_b5 (Best Match)	<input type="checkbox"/>
<input checked="" type="checkbox"/>	BG	BG_2008	BG_2008_b5 (Best Match)	<input type="checkbox"/>

Choose training data

1. Running EUROMOD (11/15)

What is exactly **Output** file?

Policy parameters (XML files)

Policy	Grp/No	SL_demo	Comment
1	Uprate_sl	on	
1.1	Uprate	on	
1.1.1	dataset	sl_demo_v4	
1.1.2	def_factor	1	
1.1.3	poa	1	
1.1.4	yem	1	
1.1.5	yiy	1	
1.1.6	yse	1	
2	ILDef_sl	on	DEF: INCOME CONCEPTS
2.1	Defil	on	
2.1.1	name	ils_earn	
2.1.2	yem	+	Employment Income
2.1.3	yse	+	Self-employment income
2.2	Defil	on	original income
2.2.1	name	ils_orig	
2.2.2	yem	+	Employment Income
2.2.3	yse	+	Self-employment income
2.2.4	yiy	+	income : investment
2.3	Defil	on	simulated benefits
2.3.1	name	ils_bensim	



EUROMOD
Output
data

text format

1. Running EUROMOD (12/15)

How and where we define **Output** file?

- Content manipulated in policy `output_std_cc`
- Control level at which info is outputted (ex: individual, household etc.)

The screenshot shows the EUROMOD software interface. At the top, there is a menu bar with options: Countries, Display, Country Tools, Administration Tools, Add-Ons, Applications, and Help & Info. Below the menu bar, there is a 'Run EUROMOD' button and a 'Simpleland' button. A row of country flags is displayed, with labels: AT, BE, BG, CY, CZ, DE, DK, EE, EL, ES, FI, FR, HR, HU, IE, IT, LT, LU, LV, MT, NL.

	Policy	Grp/No	SL_demo	Comment
1	Uprate_sl		on	DEF: UPRATING FACTORS
2	ILDef_sl		on	DEF: INCOME CONCEPTS
3	TUDef_sl		on	DEF: ASSESSMENT UNITS
4	yem_sl		on	DEF: Minimum Wage
5	neg_sl		on	DEF: recode negative self-employment income to zero
6	sic_sl		on	SIC: Social Insurance Contributions
7	bch_sl		on	BEN: Child Benefit
8	tin_sl		on	TAX: Income Tax
9	hsa_sl		on	BEN: Social Assistance
10	output_std_sl		on	DEF: STANDARD OUTPUT INDIVIDUAL LEVEL
11	output_std_hh_sl		off	DEF: STANDARD OUTPUT HOUSEHOLD LEVEL

1. Running EUROMOD (13/15)

How **Output** file looks like? Example: Stata

Data Editor (Browse) - [Untitled]

File Edit View Data Tools

idhh[1] 1

	idhh	idperson	idpartner	idmother	idfather	dct	dwt	dag	dec	les	yem	dgn
1	1	101	102	0	0	0	10	65	0	4	0	1
2	1	102	101	0	0	0	10	60	0	7	0	0
3	1	103	0	102	101	0	10	30	0	5	0	1
4	1	104	0	102	101	0	10	28	0	6	157.42	1
5	2	201	202	0	0	0	10	29	0	3	1075.35	1
6	2	202	201	0	0	0	10	25	0	3	951.36	0
7	2	203	0	202	201	0	10	3	0	0	0	0
8	2	204	0	202	201	0	10	2	0	0	0	1
9	3	301	302	0	0	0	10	72	0	2	0	1
10	3	302	301	0	0	0	10	59	0	7	0	0
11	4	401	402	0	0	0	10	50	0	3	3614.22	1
12	4	402	401	0	0	0	10	42	0	7	0	0
13	4	403	0	402	401	0	10	14	3	6	0	0
14	4	404	0	402	401	0	10	10	2	6	0	1



1. Running EUROMOD (14/15)

What **Output** file usually includes?

- All **variables** present in the **input** microdata file
- **Simulated** variables (i.e. simulated taxes and benefits)
- Standardized **income lists**
- (optional) non-standard income lists
- (optional) temporary variables
- (optional) Tax unit identification info



1. Running EUROMOD (15/15)

Where we can find **Output** file?

Open Project

EUROMOD Folder: C:\Users\svujac\Desktop\Africa\EuromodFiles_G3.0+

Output Folder: C:\Users\svujac\Desktop\Africa\EuromodFiles_G3.0+\output

Input Folder: C:\Users\svujac\Desktop\Africa\EuromodFiles_G3.0+input

EUROMOD Version: G3.0+

Set Standard Input/Output-Paths

OK Cancel

[Back](#)

2. Summary Statistics tool



2. Summary statistics tool (1/8)

What it actually **does**?

Computes a range of commonly used **indicators and statistics**:

- poverty rates for the overall population and for selected groups and the Gini coefficient
- distribution of household income, taxes and benefits by income group
- demographic information on households by income group

Computed indicators are **fixed** and **cannot be changed**

However, we would like to hear your opinion regarding this – do you think that it gives enough information; would you like to remove/add some new indicators or equivalence scale and similar?



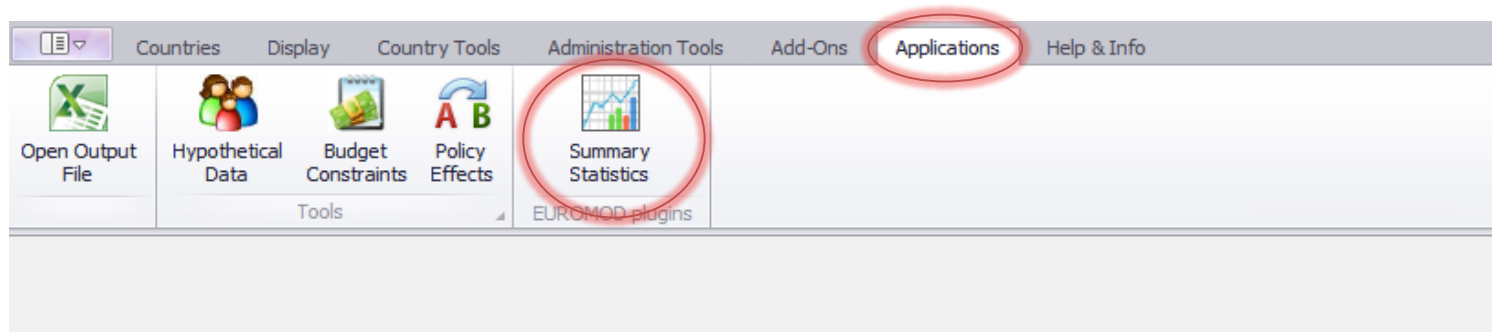
2. Summary statistics tool (2/8)

How we use it?

Output of EUROMOD => [micro-data](#)

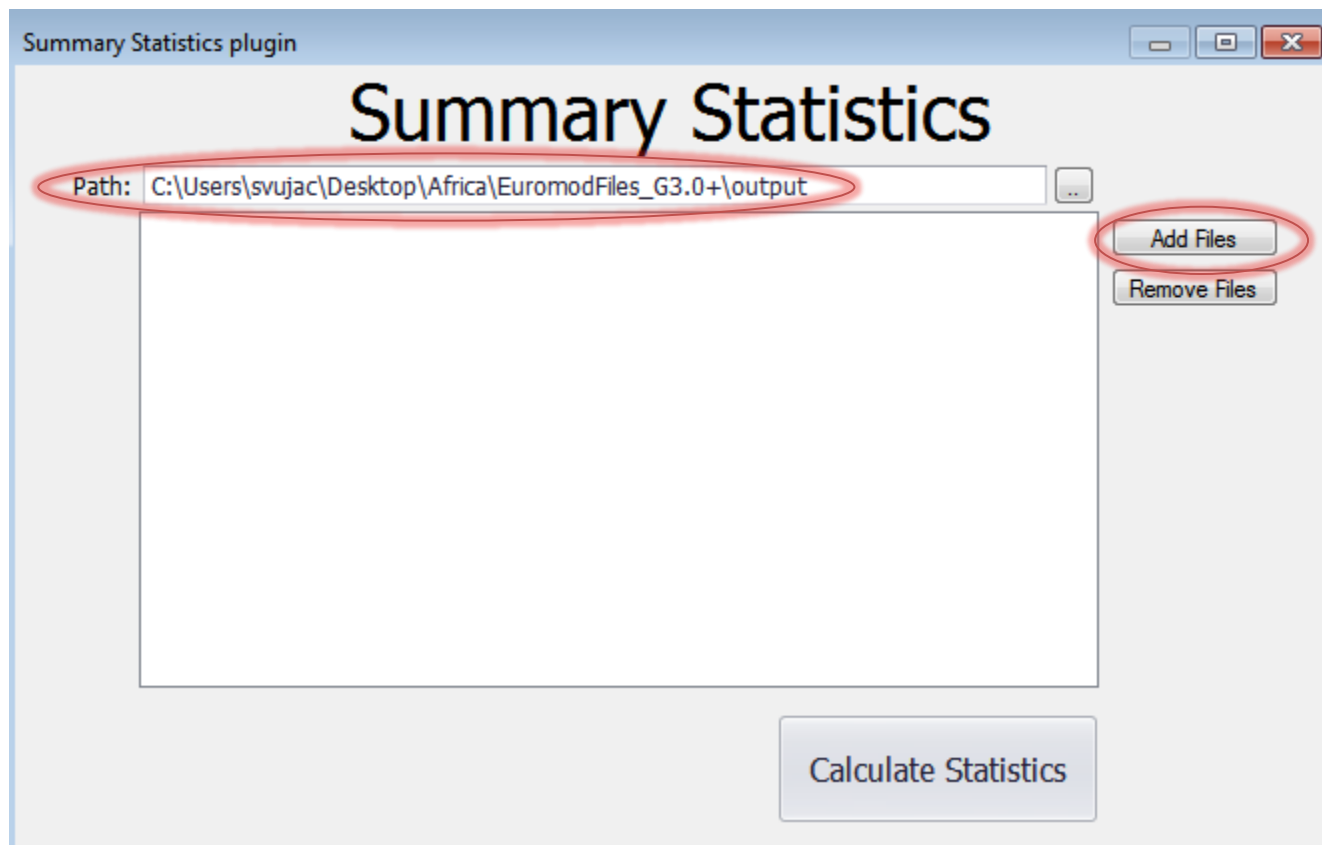
Where is [stored](#)?

What we [need to do](#)?



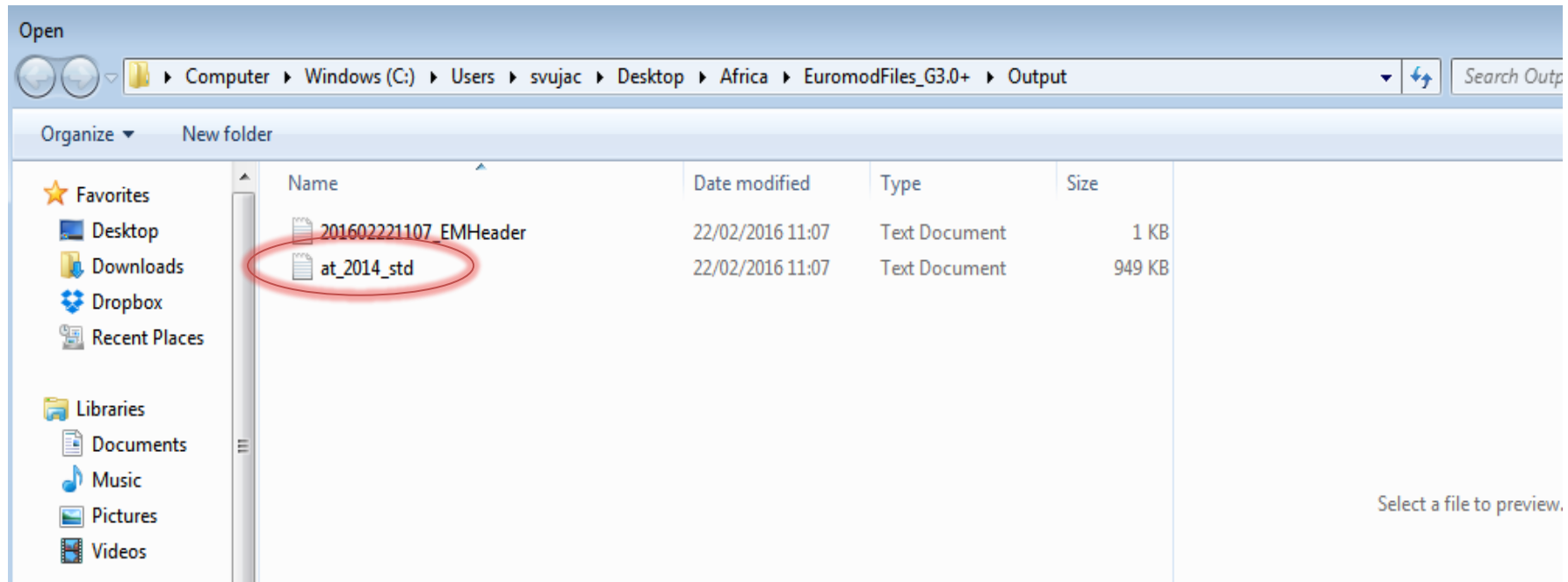
2. Summary statistics tool (3/8)

How we use it?



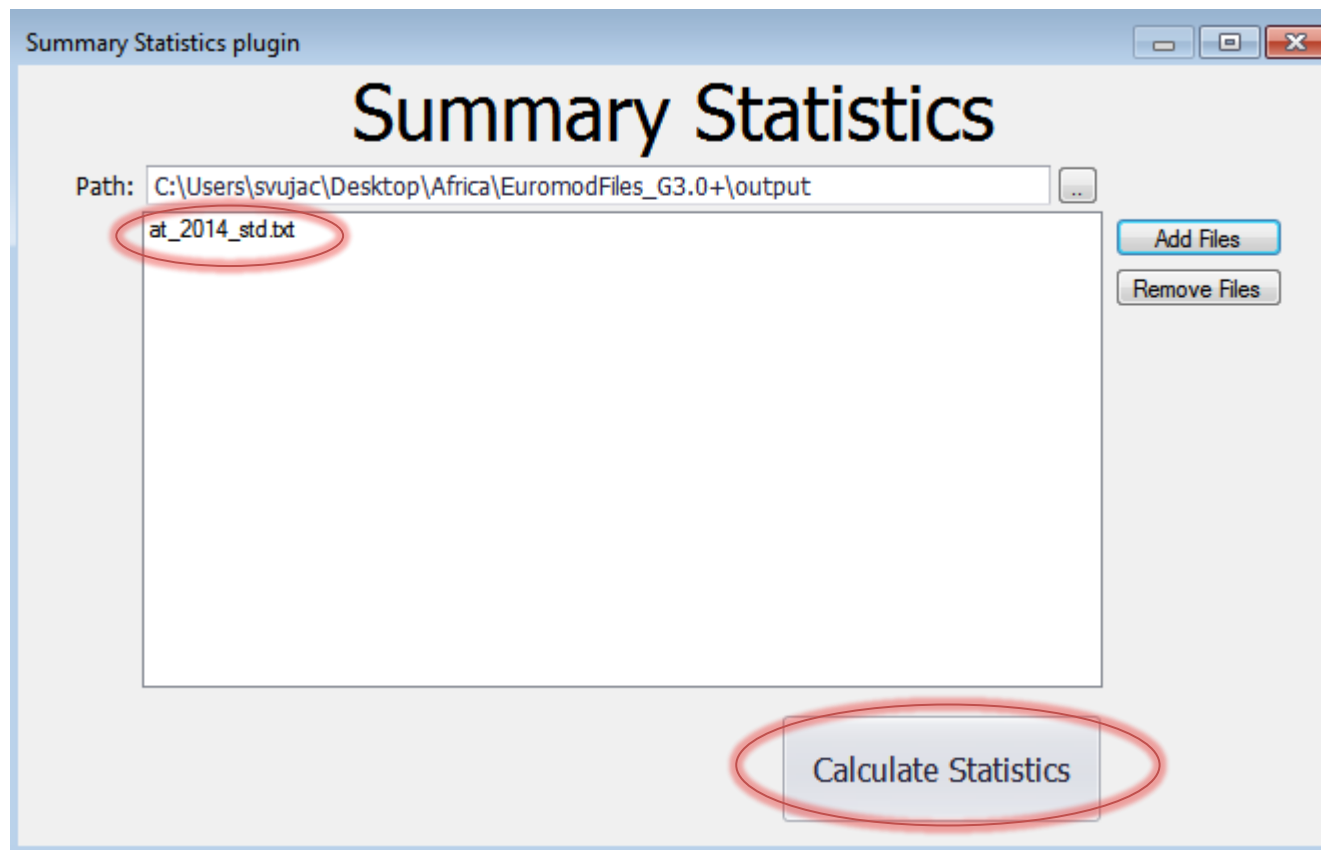
2. Summary statistics tool (4/8)

How we use it?



2. Summary statistics tool (5/8)

How we use it?



2. Summary statistics tool (6/8)

What we get? What are the indicators?

Summary Statistics plugin - Results

Results for Austria 2014 (at_2014_std.txt)

Table 1 | Table 2 | Table 3 | Table 4 | Table 5 | Table 6

Basic poverty and inequality indices

Poverty	Headcount
Population	18.33 %
Children	10.14 %
Working Age (...)	24.90 %
WA Econ. Act.	14.07 %
Elderly	3.98 %

Inequality	Gini
Original Income	0.4788
Disposable income	0.2488

at_2014_std.txt

Definitions Export Close

2. Summary statistics tool (7/8)

How we **export** the results?

By default – stored in *Output folder* where are output files

By default – name is “*export*” but this can be changed

Summary Statistics plugin - Results

Results for Austria 2014 (at_2014_std.txt)

Table 1 | Table 2 | Table 3 | Table 4 | Table 5 | Table 6

Basic poverty and inequality indices

Poverty	Headcount
Population	18.33 %
Children	10.14 %
Working Age (...)	24.90 %
WA Econ. Act.	14.07 %
Elderly	3.98 %

Inequality	Gini
Original Income	0.4788
Disposable income	0.2488

at_2014_std.txt

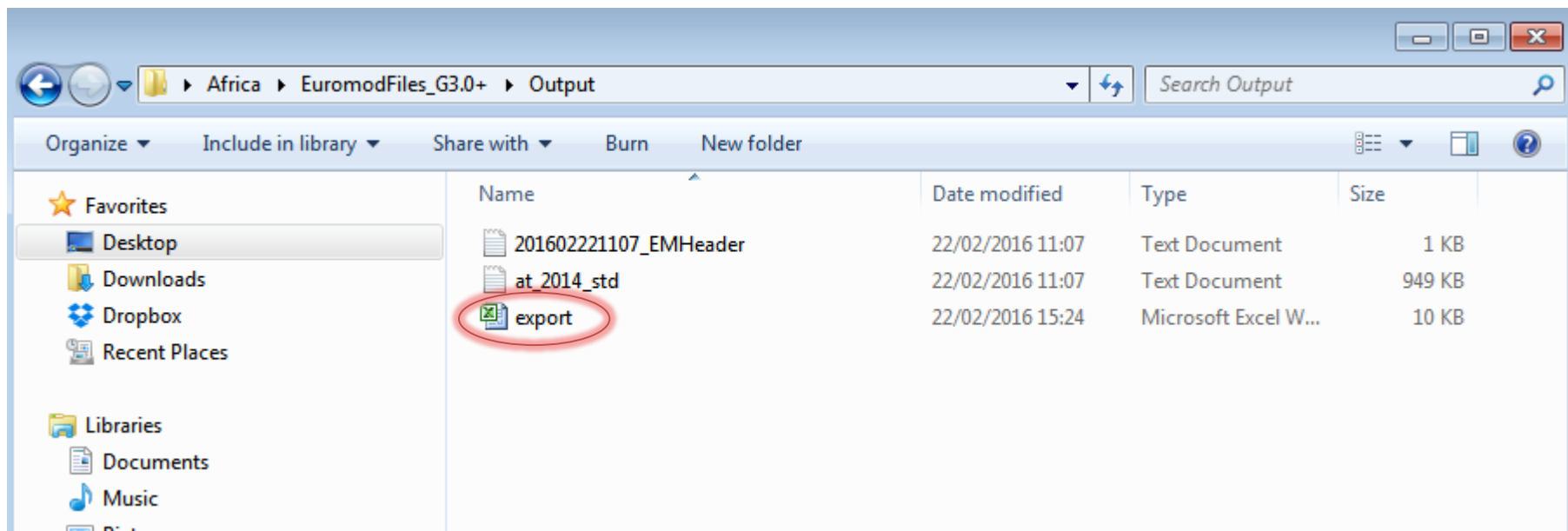
Definitions | **Export** | Close

2. Summary statistics tool (8/8)

How we **export** the results?

By default – stored in *Output folder* where are output files

By default – name is “*export*” but this can be changed



3.1 Error handlings



3.1 Error handlings (1/13)

Implementing a simple reform – step by step

Task: Increase the amount of child benefit in Simpleland from 200 units per month to 250 units per month (make it more generous)

Steps:

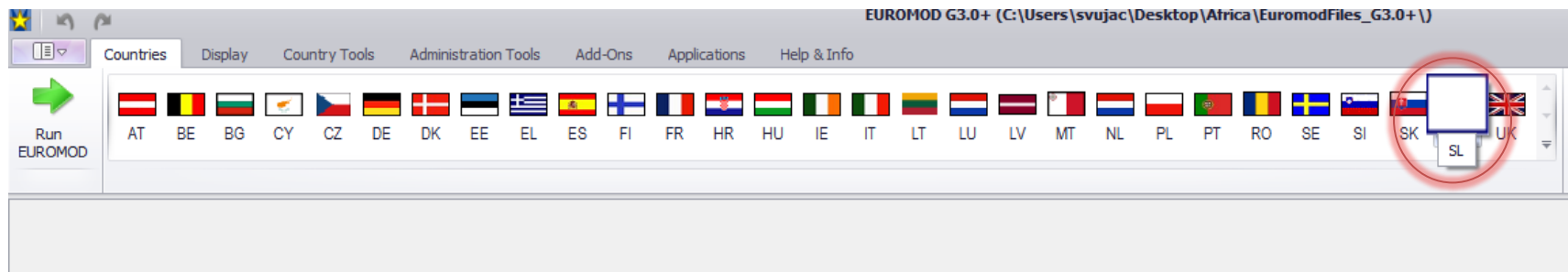
1. Find Simpleland in the country list and select (open) it;
2. Add a new system where the reform will be implemented and name it as *SL_reform*
3. Modify *Conditional formatting*
4. Analyze the policy spine
5. Find the Child Benefit and expand all functions
6. Make a change from 200#m to 250#m
7. Run EUROMOD
8. Analyse results with the Summary Statistics Tool



3.1 Error handlings (2/13)

Implementing a simple reform – step by step

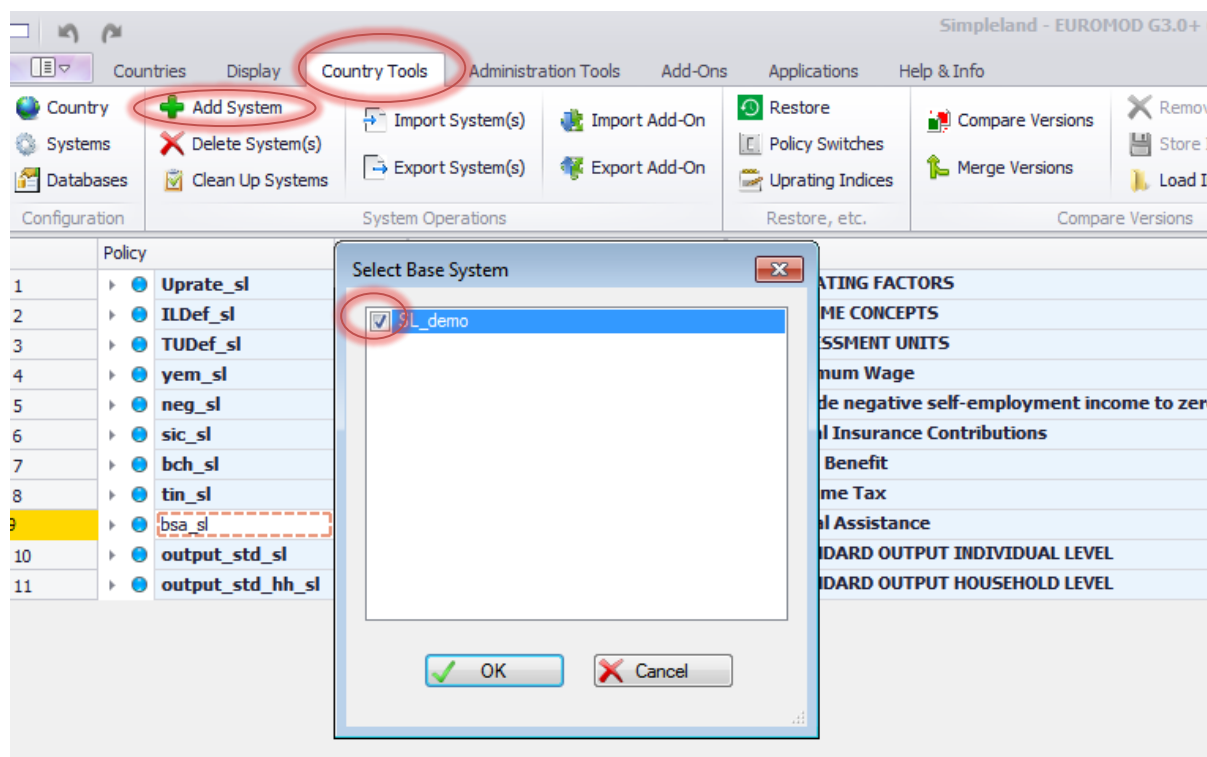
Step 1: Find Simpleland in the country list and select (open) it



3.1 Error handlings (3/13)

Implementing a simple reform – step by step

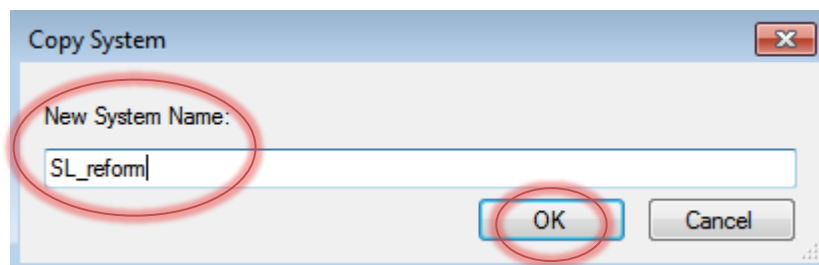
Step 2: Add a new system where the reform will be implemented and name it as *SL_reform*



3.1 Error handlings (4/13)

Implementing a simple reform – step by step

Step 2: Add a new system where the reform will be implemented and name it as *SL_reform*



3.1 Error handlings (5/13)

Implementing a simple reform – step by step

Step 3: Modify *Conditional* formatting

The screenshot shows a software interface with a menu bar and several toolbars. The 'Conditional Formatting' button in the 'Display' toolbar is circled in red. Below it, the 'Conditional Formatting' dialog box is open, showing a table with the following data:

System	Base System	Back Color	Text Color	Expand Differences
SL_demo		FFFFC000	no special color	<input type="checkbox"/>
SL_reform		FFFFC000	no special color	<input type="checkbox"/>

The 'SL_reform' row is circled in red. To the right, the 'Select Systems' dialog box is open, showing a list with 'SL_demo' selected and circled in red. The 'OK' button in the 'Select Systems' dialog is also circled in red.

3.1 Error handlings (6/13)

Implementing a simple reform – step by step

Steps 4 and 5: Analyze the policy spine, find the Child Benefit and expand all functions inside the benefit

<div style="display: flex; justify-content: space-between; font-size: small;"> Countries Display Country Tools Administration Tools Add-Ons Applications Help & Info </div>						
Policy View		Format		Marking		Misc
<input checked="" type="checkbox"/>	Full Spine		Conditional Formatting	<input type="text" value=""/>		Clear
<input type="checkbox"/>	Single Policy		Automatic Conditional Formatting			Set Bookmark
			Suspend System Formatting			Clear All
						Show Key Parameters
						Show Matrix View of Incomelists
						Show Hidden Systems Box
1	Policy	Grp/No	SL_demo	SL_reform	Comment	
1	▶ Uprate_sl		on	on	DEF: UPRATING FACTORS	
2	▶ ILDef_sl		on	on	DEF: INCOME CONCEPTS	
3	▶ TUDef_sl		on	on	DEF: ASSESSMENT UNITS	
4	▶ yem_sl		on	on	DEF: Minimum Wage	
5	▶ neg_sl		on	on	DEF: recode negative self-employment income to zero	
6	▶ sic_sl		on	on	SIC: Social Insurance Contributions	
7	▶ bch_sl		on	on	BEN: Child Benefit	
7.1	▶ ArithOp		on	on	benefit calculation	
7.1.1	formula		nDepChildrenInTU*amount#1	nDepChildrenInTU*amount#1		
7.1.2	#_amount	1	200#m	200#m		
7.1.3	output_var		bch_s	bch_s		
7.1.4	TAX_UNIT		tu_sben_family_sl	tu_sben_family_sl	There are age limits set for dep. children in TU.	
8	▶ tin_sl		on	on	TAX: Income Tax	
9	▶ bsa_sl		on	on	BEN: Social Assistance	
10	▶ output_std_sl		on	on	DEF: STANDARD OUTPUT INDIVIDUAL LEVEL	
11	▶ output_std_hh_sl		off	off	DEF: STANDARD OUTPUT HOUSEHOLD LEVEL	

3.1 Error handlings (7/13)

Implementing a simple reform – step by step

Step 6: Make a change from 200#m to 250#m

Countries Display Country Tools Administration Tools Add-Ons Applications Help & Info						
Policy View		Format		Marking		Misc
<input checked="" type="checkbox"/>	Full Spine		Conditional Formatting	<input type="text"/>		Show Key Parameters
<input type="checkbox"/>	Single Policy		Automatic Conditional Formatting			Show Matrix View of Incomelists
			Suspend System Formatting			Show Hidden Systems Box
Policy	Grp/No	SL_demo	SL_reform	Comment		
1	▶ Uprate_sl	on	on	DEF: UPRATING FACTORS		
2	▶ ILDef_sl	on	on	DEF: INCOME CONCEPTS		
3	▶ TUDef_sl	on	on	DEF: ASSESSMENT UNITS		
4	▶ yem_sl	on	on	DEF: Minimum Wage		
5	▶ neg_sl	on	on	DEF: recode negative self-employment income to zero		
6	▶ sic_sl	on	on	SIC: Social Insurance Contributions		
7	▶ bch_sl	on	on	BEN: Child Benefit		
7.1	▶ ArithOp	on	on	benefit calculation		
7.1.1	formula	nDepChildrenInTU*amount#1	nDepChildrenInTU*amount#1			
7.1.2	#_amount	1	200#m	250#m		
7.1.3	output_var	bch_s	bch_s			
7.1.4	TAX_UNIT	tu_sben_family_sl	tu_sben_family_sl	There are age limits set for dep. children in TU.		
8	▶ tin_sl	on	on	TAX: Income Tax		
9	▶ bsa_sl	on	on	BEN: Social Assistance		
10	▶ output_std_sl	on	on	DEF: STANDARD OUTPUT INDIVIDUAL LEVEL		
11	▶ output_std_hh_sl	off	off	DEF: STANDARD OUTPUT HOUSEHOLD LEVEL		

3.1 Error handlings (8/13)

Implementing a simple reform – step by step

Step 7: Run EUROMOD with *sl_demo_v4* data

Run EUROMOD

Main View / Filter / Add-Ons Advanced Settings

AT BE BG CY CZ DE DK EE EL ES FI FR HR HU IE IT LT LU LV MT NL PL PT RO SE SI SK SL UK

Select countries

Countries Countries
Systems Systems
Add-ons Add-ons
Select all ... / Unselect all ...

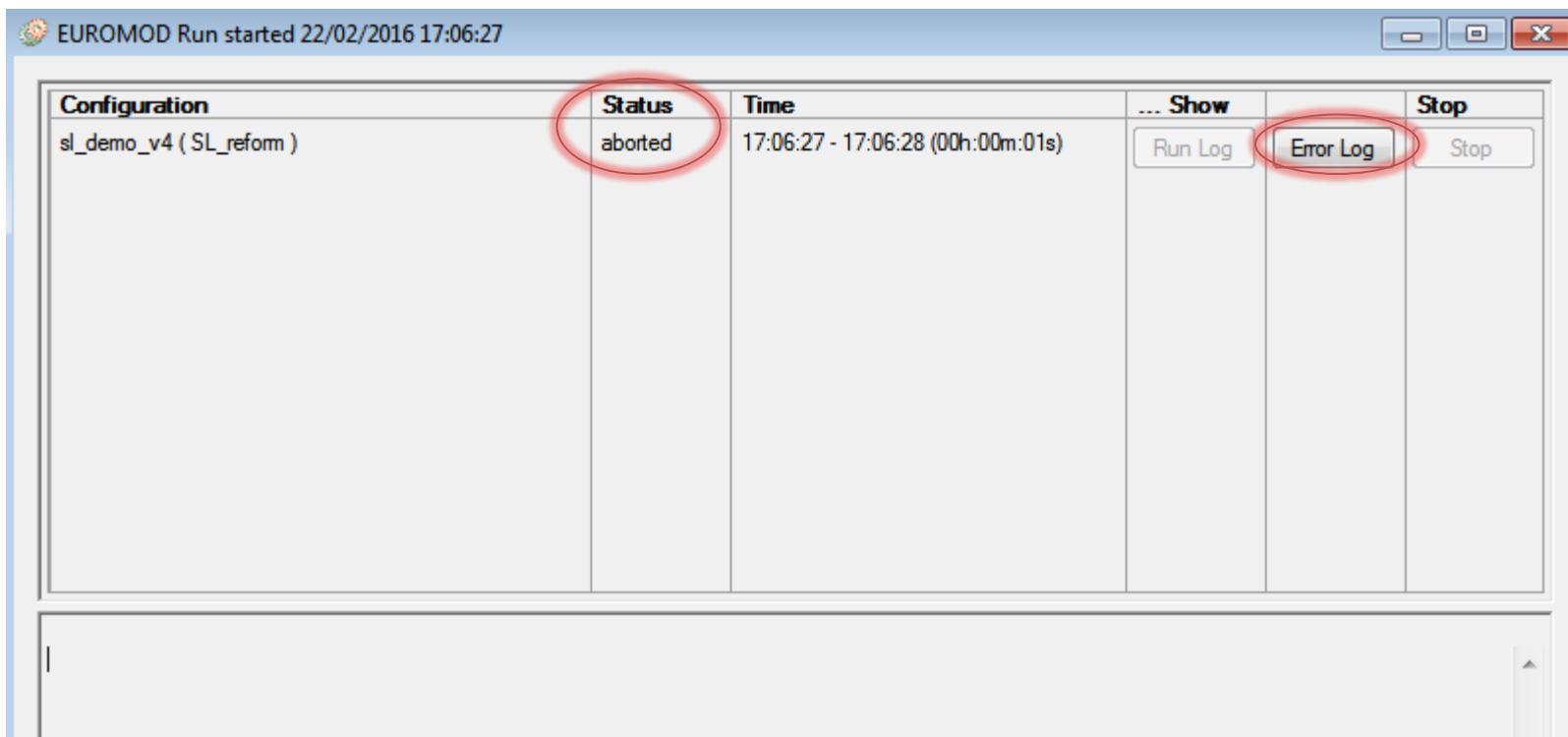
Run

Run	Country	System	Dataset	Separate Run
<input type="checkbox"/>	SL	SL_demo	sl_demo_v4 (Best Match)	<input type="checkbox"/>
<input checked="" type="checkbox"/>	SL	SL_reform	sl_demo_v4 (Best Match)	<input type="checkbox"/>

3.1 Error handlings (9/13)

Implementing a simple reform – step by step

Step 7: Run EUROMOD with *sl_demo_v4* data



EUROMOD Run started 22/02/2016 17:06:27

Configuration	Status	Time	... Show	Stop
sl_demo_v4 (SL_reform)	aborted	17:06:27 - 17:06:28 (00h:00m:01s)	Run Log Error Log	Stop

3.1 Error handlings (10/13)

Implementing a simple reform

[Back](#)

Step 7: Run EUROMOD with *sl_demo_v4* data – **ERROR!**

EUROMOD Run started 22/02/2016 17:06:27

Configuration	Status	Time	... Show	Stop
sl_demo_v4 (SL_reform)	aborted	17:06:27 - 17:06:28 (00h:00m:01s)	Run Log	Error Log

ERROR-LOG sl_demo_v4 (SL_reform)

Error: Parameter is not a valid number.
 System: sl_reform
 Policy: bch_sl; row 7
 Function: func_arthrop; row 7.1
 Parameter: #1_amount; row 7.1.2
 Value: 250
 Identifier: 43395c2f-3668-4413-99b2-e5b797dcbc37

EUROMOD FOUND ONE OR MORE ERRORS AND DID NOT START CALCULATIONS.
 Errors are listed above and in 'c:\users\svujac\desktop\afrika\euromodfiles_g3.0+\output\201602221706_erlog.txt'.
 Press any key to continue.

1. From details
(row, policy,
function, etc.)

2. Using *Identifier*

3.1 Error handlings (11/13)

Implementing a simple reform

Step 7: Run EUROMOD with *sl_demo_v4* data – **ERROR!**

Error log file

- Where can be found? [Output folder \(text format\)](#)
- What is shows? [Same information as in the running dialog box](#)
- What contains? [Contains time stamp of their creation](#)
- What kind of the information? [Information about EUROMOD version, policy system where error occurred and dataset used](#)

```
201602221706_errlog - Notepad
File Edit Format View Help
=====
EUROMOD ERROR LOG FOR sl
Dataset: sl_demo_v4.txt; EM-version: g3.0+; Executable-version: 1.12.9; User-Interface-version: 1.12.9
=====
Error: Parameter is not a valid number.
System: sl_reform
Policy: bch_sl; row 7
Function: func_arithop; row 7.1
Parameter: #1_amount; row 7.1.2
Value: 250
Identifier: 43395c2f-3668-4413-99b2-e5b797dcbc37
=====
```

3.1 Error handlings (12/13)

What is Identifier and how can be used?

Copy/Paste
the value of
Identifier

The screenshot shows the EUROMOD G3.0+ software interface. The 'Country Tools' menu is circled in red. A blue arrow points from the text 'Copy/Paste the value of Identifier' to the 'Search by ID' option in the 'Country Tools' menu. Another blue arrow points from the 'Search by ID' option to the 'Search by Identifier' dialog box. In the dialog box, the 'Identifier' field is highlighted with a red dashed box, and the 'Find' button is circled in red. The main window displays a table of policy parameters with columns for Policy, Grp/No, SL_demo, and SL_reform. The row for 'bch_sl' is highlighted in yellow, and its sub-row '7.1.2' is also highlighted in yellow.

Policy	Grp/No	SL_demo	SL_reform	
1	Uprate_sl	on	on	
2	ILDef_sl	on	on	
3	TUDef_sl	on	on	
4	yem_sl	on	on	
5	neg_sl	on	on	DEF: recode negative self-employment income to zero
6	sic_sl	on	on	SIC: Social Insurance Contributions
7	bch_sl	on	on	BEN: Child Benefit
7.1	ArithOp	on	on	benefit calculation
7.1.1	formula	nDepChildrenInTU*amount#1	nDepChildrenInTU*amount#1	
7.1.2	#_amount	1	25o#m	
7.1.3	output_var	bch_s	bch_s	
7.1.4	TAX_UNIT	tu_sben_family_sl	tu_sben_family_sl	There are age limits set for dep. children in TU.
8	tin_sl	on	on	TAX: Income Tax
9	bsa_sl	on	on	BEN: Social Assistance
10	output_std_sl	on	on	DEF: STANDARD OUTPUT INDIVIDUAL LEVEL
11	output_std_hh_sl	off	off	DEF: STANDARD OUTPUT HOUSEHOLD LEVEL

3.1 Error handlings (13/13)

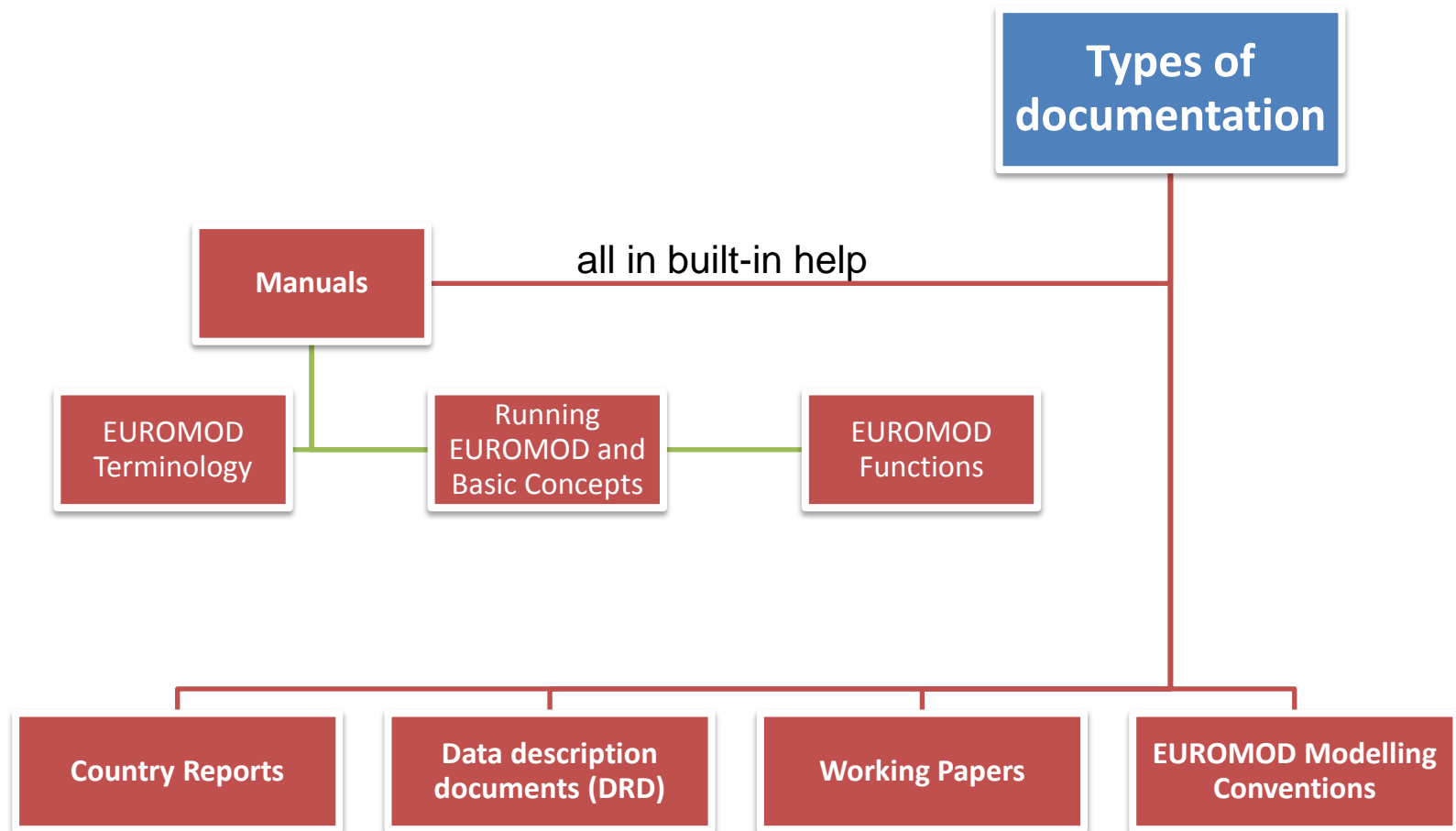
What is Identifier and how can be used?

Policy	Grp/No	SL_demo	SL_reform	Comment
1	Uprate_sl	on	on	DEF: UPRATING FACTORS
2	ILDef_sl	on	on	DEF: INCOME CONCEPTS
3	TUDef_sl	on	on	DEF: ASSESSMENT UNITS
4	yem_sl	on	on	DEF: Minimum Wage
5	neg_sl	on	on	DEF: recode negative self-employment income to zero
6	sic_sl	on	on	SIC: Social Insurance Contributions
7	bch_sl	on	on	BEN: Child Benefit
7.1	ArithOp	on	on	benefit calculation
7.1.1	formula	nDepChildrenInTU*amount#1	nDepChildrenInTU*amount#1	
7.1.2	#_amount	200#m	250#m	
7.1.3	output_var	bch_s	bch_s	
7.1.4	TAX_UNIT	tu_sben_family_sl	tu_sben_family_sl	There are age limits set for dep. children in TU.
8	tin_sl	on	on	TAX: Income Tax
9	bsa_sl	on	on	BEN: Social Assistance
10	output_std_sl	on	on	DEF: STANDARD OUTPUT INDIVIDUAL LEVEL
11	output_std_hh_sl	off	off	DEF: STANDARD OUTPUT HOUSEHOLD LEVEL

3.2 Documentation



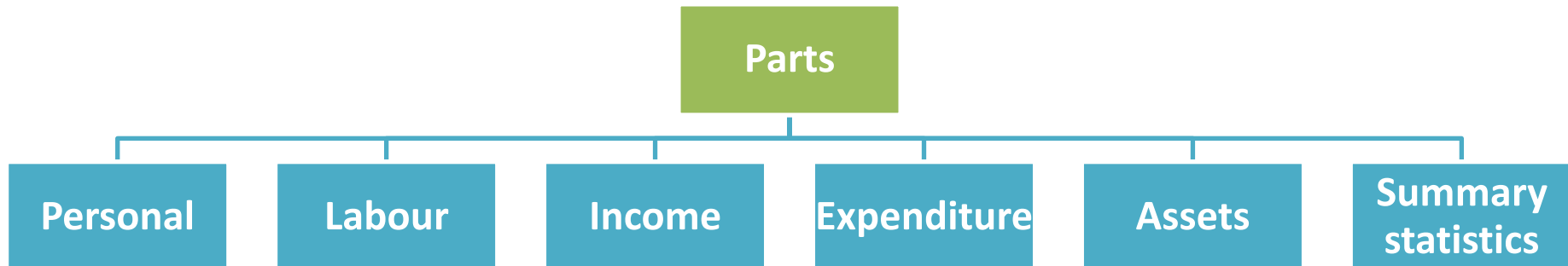
3.2 Documentation (1/2)



3.2 Documentation (2/2)

Data Description Document (DRD)

Data – sample size: number of households and individuals



Thank you!



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