

New methods for enriching official statistics on income distribution

Aura Leulescu-EUROSTAT

15th March 2019

NTTS

New methodologies in Eurostat





Flash estimates on income poverty and inequality >

All topics covered in this page are summarised in a table under 'Published statistics'. They are also available via the 'topics' section below,

We are interested in receiving your **feedback** on our experimental statistics in order to further improve their robustness. Join the discussions launched on the European Statistics User Forum to

share your views and ideas!





Need for more timely data on income indicators for the European Semester and several monitoring tools

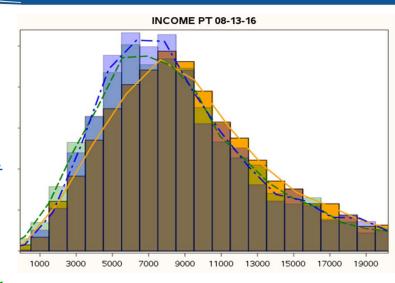
- Based on EU-SILC: Structural instrument -collects information income N-1 in year N
 - > Currently, 18 months delay after the reference period
- \rightarrow FE as early warning (9 \rightarrow 6 month delay)
- > used in the Joint Employment Report, Country reports and recommendations...

What indicators?

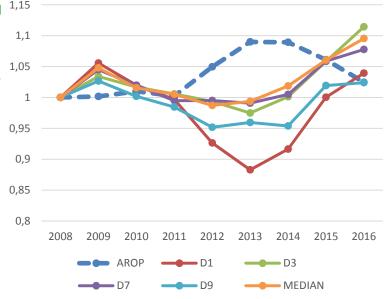
 A coherent narrative about the income distribution

→ Priority indicators for main users but structural

- O AROP (At-risk-of-poverty rate in §
- O Income inequalities (S80/S20 ration)1,15
- → More reactive indicators for yearly c
- O Deciles (cut-off points)
 D1, D3, Median, D7, D9



PT: AROP-DECILES



Cycle 2017/2018



Technical

- Review several methods
- → mainly modelling techniques
- →national flash (4 countries)
- Quality assessment framework & criteria for publishing
- Communication aspects

- Stakeholders
- Bilateral consultations with Member States
- Dedicated TF on Flash Estimates
- Workshops with the academic community
- Main users and different monitoring tools
- Strong support from the 5
 University of Essex

Methods



Macro

Macroeconomic time series modelling + different variable selection methods

- >time series too short (-)
- ➤ not coherent estimation of different indicators (-)

Micro

Microsimulation

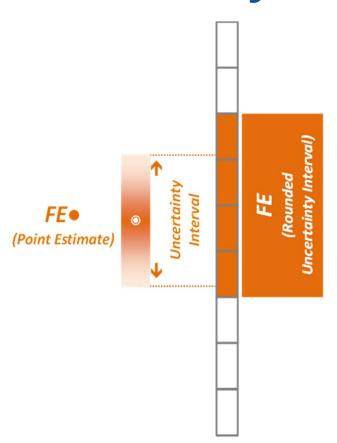
- → Labour effects
- labour transitions model /calibration
- wage indexation (by sector when possible)
- → Policy effects
- Euromod
- → Other indexations (e.g. use of HICP)
- possibility to link to policy effects (+)

Communication



- → Focus on the direction and magnitude of YoY changes
- → take into account the sampling error (in the input and target source)
- →in the future to include model error

Uncertainty interval

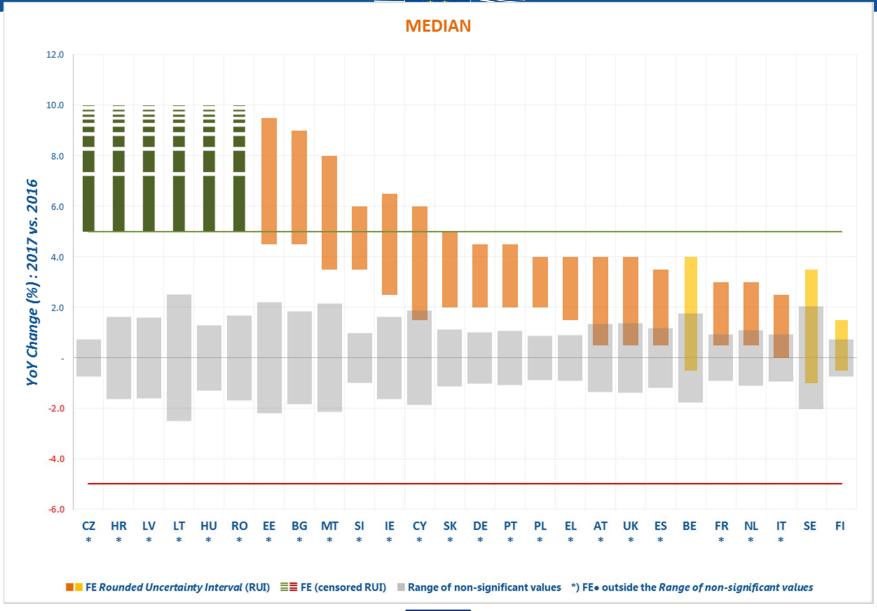




Some results →

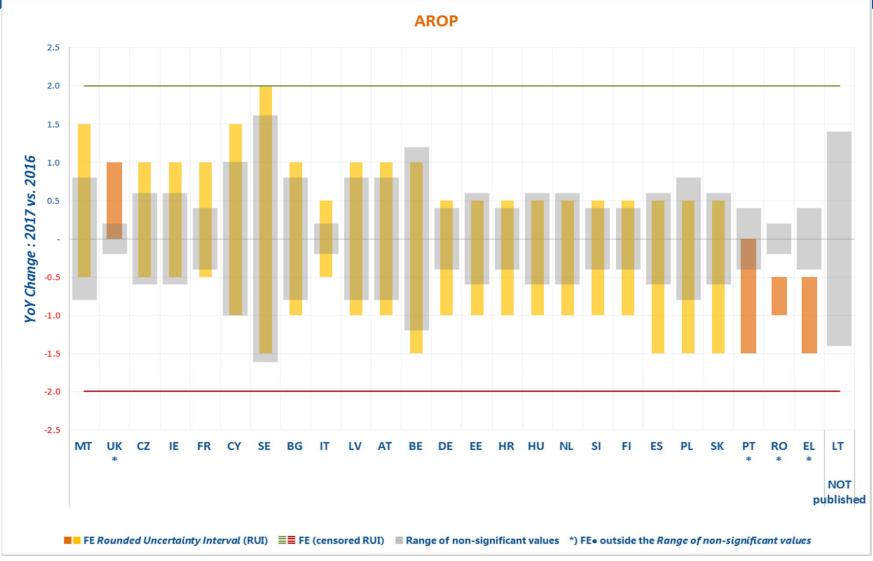
Fe 2017: MEDIAN





Fe 2017: AROP





Separate effects

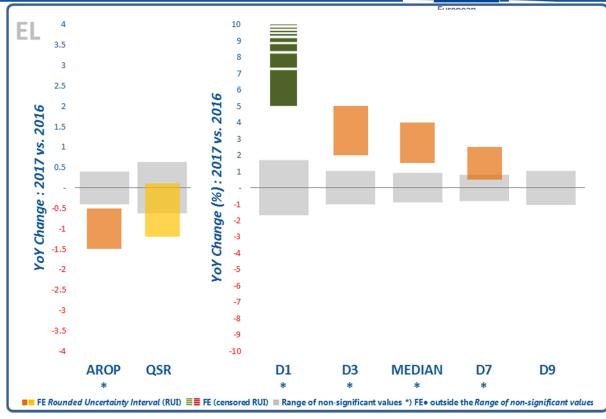


-10 10	Policy Effects					Labour Effects				
Country	D1	D3	MEDIAN	D7	D9	D1	D3	MEDIAN	D7	D9
BE				X	X				X	Х
BG										
CZ										
DE										
EE										
IE					X					X
EL					X					X
ES										
FR										
HR										
IT										
LT										
MT										
AT					X					X
PL										
PT										
SI										
SK				X	X				X	X
FI										
UK										

X) FE not published

Country focus





*"Policy changes in 2017 had a progressive effect on the income distribution. In particular, the lowest income decile reported substantial gains equal of disposable income. This increase was mainly driven by the introduction of guaranteed minimum income (GMI), which was provided to all households with incomes below a certain (low) threshold."

*EUROMOD (2018) "Effects of tax-benefit policy changes across the income distributions of the EU-28 countries: 2016-2017", EUROMOD Working Paper 4/18, Institute for Social and Economic Research, University of Essex

FE in time perspective



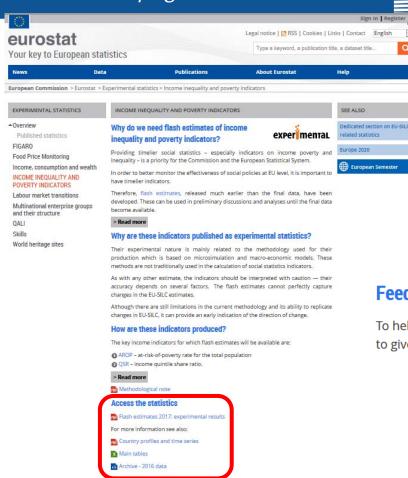
IT-AROP

IT-deciles





Dedicated page



Access the statistics

Flash estimates 2017: experimental results

For more information see also:

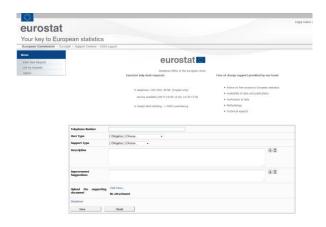
- Country profiles and time series
- Main tables
- Archive 2016 data

Feedback

European

Commission

To help Eurostat improve these experimental statistics, users and researchers are kindly invited to give us the feedback:



desirable in the future?

invited to give us their feedback:

for this flash estimate exercise?

O Are there any other factors Eurostat should consider?

income distribution and poverty?

About us Overview How to find us Contact

Are there other indicators Eurostat should analyse for policy purposes?
 Could the uncertainty interval be further improved? Would point estimates be

To help Eurostat improve these experimental statistics, users and researchers are kindly

1 Would you have comments or suggestions for improvements of the methods applied

What other indicators or breakdowns could be useful as early warnings on trends in

Opportunities
Calls for tenders
Grants
State
Share

