

ECB - Expert Group on Distributional Financial Accounts

United Nations Network of Economic Statisticians



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Overview

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5 Way forward

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1. Motivation

1. Motivation

Improving our understanding of wealth inequality

High demand for distributional data

- Inequality on political agenda
- Household sector **heterogeneity** matters for monetary policy
- G20 Data gaps initiative: increasing focus on distributional accounts

Difficulty to put together available sources

- Household surveys and sector accounts have different aims and concepts
- Accessible administrative sources scarce and not always easy to integrate into statistical framework

1. Timeline

First report: April 2017

Launch of the Expert Group: end-2015

Linking concepts and main methodology: June 2019 Experimental compilation: December 2021 (quarterly update)

Linking micro and macro data on wealth

Distributional data Household Survey

(in the euro area: HFCS → Household Finance and Consumption Survey)

- Every 3 years since 2010
- 91,000 households in euro area (2017)
- Very detailed results
- Micro data for research
- limitation: Low frequency and timeliness

Macro-aggregates Sector accounts: Financial Accounts and non-financial assets (QSA)

- Quarterly, starting 1999
- Integrated & exhaustive
- ESA/SNA methodology and breakdowns
- Good frequency and timeliness
- limitation: No breakdown within household sector

Distributional Wealth Accounts

(DWA)

- Linking HFCS and Sector Accounts
- Challenge: estimate the distribution of the "gap"
- Added value: Consistent with Sector Accounts Quarterly time series Good timeliness

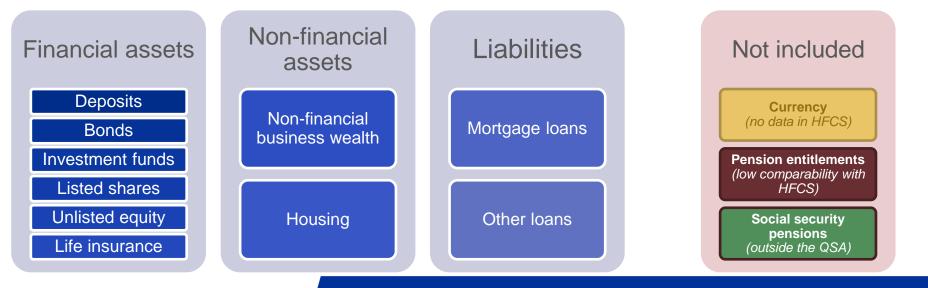
Wealth concept for DWA

The DWA cover about **90%** of the euro area households' assets and liabilities

Challenge to link items in household net wealth between the household survey and Sector Accounts

Items with high or medium comparability of concepts

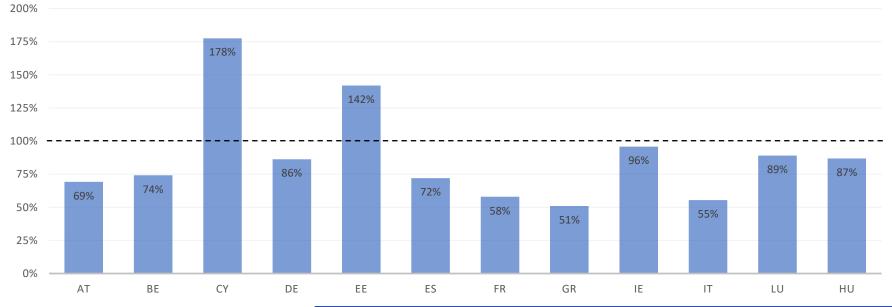
Items with low comparability



Comparing micro and macro totals

Challenge: closing the coverage gap

High & varying differences in coverage ratios, in most cases: household survey < Sector Accounts



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Wave 3 (2016-18) of HFCS. Coverage varies from wave to wave. Data for the 12 original members of the expert group. Coverage ratio = total HFCS wealth / QSA counterpart

3. ESCB approach to link household surveys with Sector Accounts

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Estimation methods - main steps

Housing and business wealth

• Estimate missing National Accounts breakdowns

Deposits

· Identify outliers and estimate correction for underreporting

Missing wealthy households

• Augment household survey results (HFCS) with "rich list" and synthetic households, assuming Pareto distribution of the top tail

Final grossing up

• Proportional allocation of the remaining gap

3. ESCB approach to link household surveys with Sector Accounts

Linking - further (less significant) steps

Timing

 Align HFCS reference periods and Sector Accounts data

Wealth concept

- Match "managed accounts" in the HFCS with Sector Accounts items
- Exclude loans between households from the HFCS

Household sector liabilities

 Split mortgage and other loans using banking balance sheet statistics

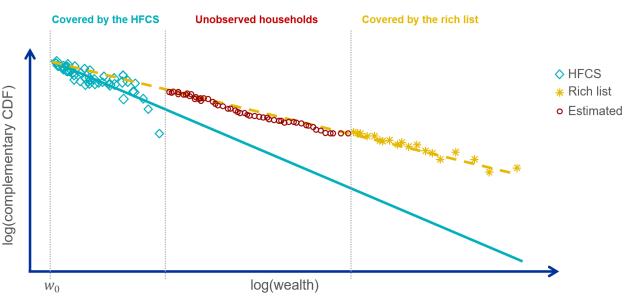
Covering financial lease

 Incorporate available country data on equivalent stock of loans

3. ESCB approach

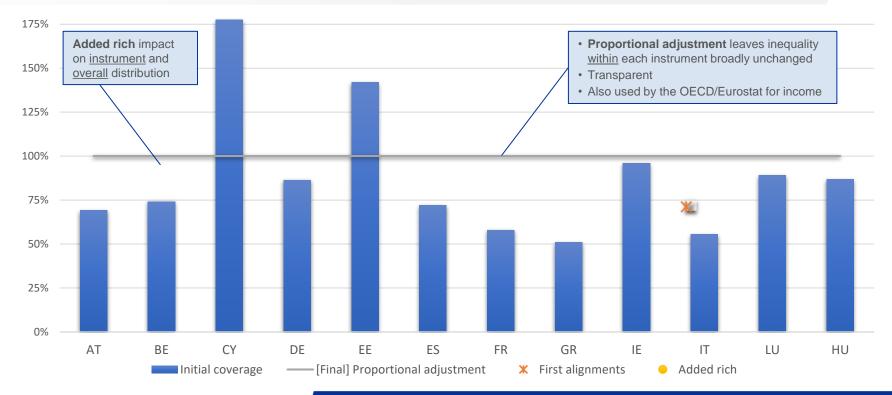
Estimation methods – missing wealthy households

- Wealthy households not fully covered in HFCS
- Complementing HFCS sample with "rich lists"
- In most countries, large gap remains between *richest HFCS household* and *poorest in rich list*
 - → Synthetic households sampled from the estimated Pareto tail



3. ESCB approach

Estimation methods (net wealth)



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Wave 3 (2016-18) of HFCS. Coverage varies from wave to wave. Data for the 12 original members of the expert group.

3. ESCB approach

Time series and frequency

General request to use distributional data together with other regular statistics

 \rightarrow quarterly frequency, and timeliness as close as possible to Sector Accounts.

Wealth + outstanding amounts: changes much slower than transactions/flows

Interpolate decile shares between HFCS periods
Extrapolate after latest HFCS period using fixed distribution

Allows to capture some of the short-term changes impacting on distribution (e.g. price variations)

ESCB internal dissemination provides the following information:

Deciles based on net wealth for:

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- Net wealth
- Total assets
- Total liabilities
- Deposits
- Debt securities
- Listed shares
- Investment fund shares
- Life insurance and annuity entitlements

- Unlisted shares and other equity
- Non-financial
 business wealth
- Housing wealth
- Mortgage debt
 - Other debt

Working status:

- Employee
- Self-employed
- Retired
- Unemployed
- Undefined and other

Housing status:

- Owner / Partial owner
- Rental / Free use

- Number/proportion of household with wealth > EUR 1mln
- Share of wealth of top 5%, 10% and bottom 50%
 - Gini (net wealth)

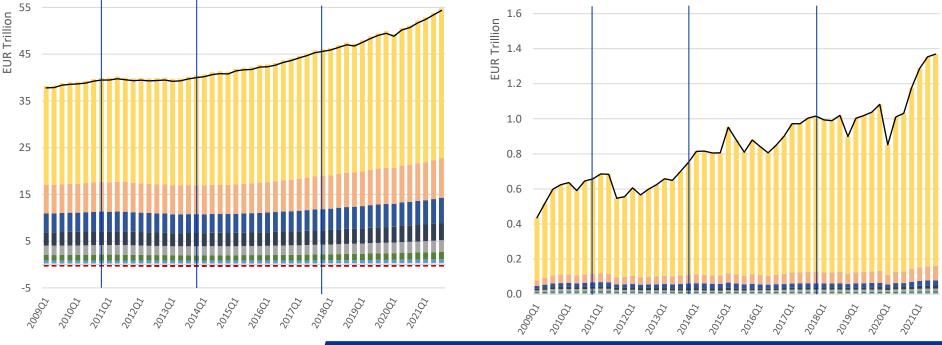
- Median and mean wealth
- Debt-to-assets ratios



Euro area aggregate | Decomposition of Sector Accounts total



Listed shares



The vertical lines represent the period of the available household survey (HFCS waves 1 to 3)

Euro area aggregate | Inequality indicators





The vertical lines represent the period of the available household survey (HFCS waves 1 to 3) $\,$

5. Way forward (and prospects for the future)

5. Way forward



Already in progress \rightarrow extension of the data to all euro area countries + potentially other European Union countries.

Consider making the results publicly available after the experimental phase (possibly 2023)



Include additional information from other datasets to improve the distributional information (especially the extrapolation process). E.g. consider using a recently developed annual internet survey.



Try adding more breakdowns (e.g., age, income, ...).

6. Lessons learnt

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Successful strategies

- Challenging but fruitful communication between micro and macro statisticians → develop acceptable bridging / estimates.
- Understand the impact of each step of the model, and not only focus on the final values.
- Harmonised approach across euro area countries.
- Clear interest from users \rightarrow collecting their feedback.

6. Lessons learnt

Opportunities

- Some national compilers have taken steps to get access to more administrative data.
- The incorporation of additional data sources (e.g. online surveys, credit card information, ...) might improve estimates of recent quarters.
- Some countries consider asking reporting institutions (e.g., banks) for more distributional information on households.

Challenges

- Users would like to reconcile the data also with income and consumption and savings.
- Uncertainty/margin of error on the recording of housing wealth and land in Sector Accounts for some countries, and individual replies to surveys.
- The treatment of certain items (e.g. durable goods or social security pensions) in SNA/ESA has a significant impact on net wealth comparisons.

Thank you. Comments welcome!