

Compilation of
Distributional Wealth
Accounts (DWA) for
euro area countries



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Overview

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1. Motivation and timeline of the ESCB project

1. Motivation

Improving the understanding of wealth inequality

High demand for distributional data

- Inequality on political agenda
- Household sector heterogeneity matters for monetary policy
- Interest of central banks in inequality data
- G20 Data gaps initiative: increasing focus on distributional accounts
- Guidance note on Distributional Accounts planned in **new SNA**

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

Linking concepts and main methodology: June 2019 Experimental compilation: Dec. 2021 (quarterly update) for 12 countries and euro area

Publication of experimental data: 2023

Coverage extended to 18 countries: Nov. 2022

Launch of the Expert Group: end-2015

First report:

April 2017

2. SNA Guidance Note on process to be followed

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SNA Guidance Note: 5 main steps are recommended

Step 1: adjustment of NA totals (e.g. to exclude Non-Profit Institutions Serving Households)

Step 2: selecting relevant micro data in relation to macro items Step 3:
imputing for
missing elements
and aligning
macro and micro
results

Step 4: clustering households according to household groups

Step 5: derive relevant distributional indicators 3. DWA compilation approach as compared with SNA Guidance

SNA step 1: adjustment of National Accounts totals

Housing and business wealth

Estimate missing National Accounts breakdowns (e.g. exclude NPISH)

Household sector liabilities

 Split of totals loans into mortgage and other loans using banking balance sheet statistics

SNA step 2a: selecting relevant micro data in relation with macro items

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

SNA step 2b: selecting relevant micro data in relation with macro items

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

Deposits
Bonds
Investment funds
Listed shares
Unlisted equity
Life insurance

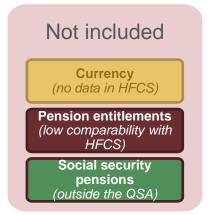
Non-financial assets

Non-financial business wealth

Housing

Mortgage loans

Other loans

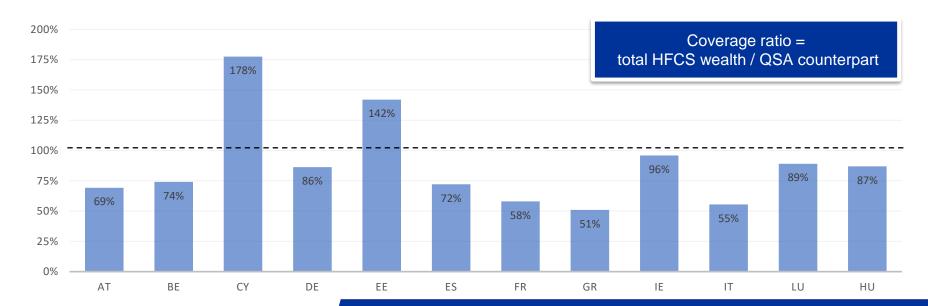


The DWA cover about 90% of the euro area households' assets and liabilities.

SNA step 3: imputing for missing elements and aligning macro and micro results

Challenge: closing the coverage gap

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



SNA step 3a: imputing for missing elements

Covering financial lease

Incorporate available country data on equivalent stock of loans

Match "managed accounts" from the HFCS into Sector Accounts items

Different concept in Household Survey and Sector Accounts

Deposits

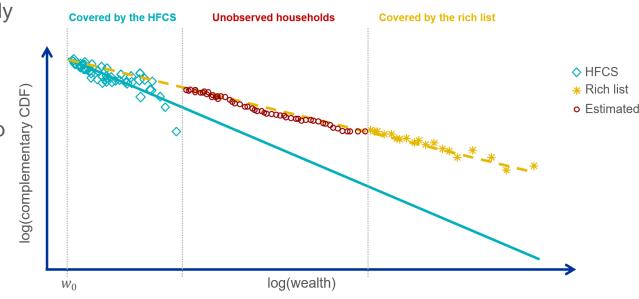
Identify outliers and estimate correction for underreporting

Missing wealthy households

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

SNA step 3a: imputing for missing elements

- 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

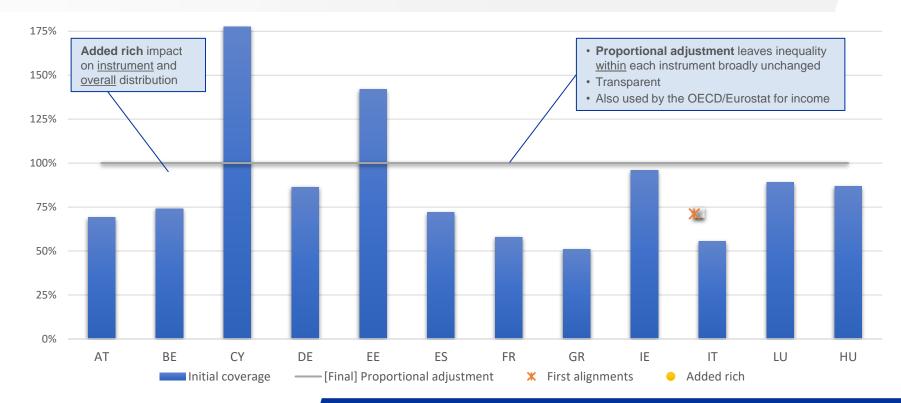


SNA step 3b: aligning macro and micro results

Final grossing up

- Proportional allocation of the remaining gap
- Special process for households with negative wealth

SNA step 3b: impact of the estimation methods (net wealth)



Additional step (presented separately in SNA Guidance): time series

General request to use distributional data together with other regular statistics

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

Wealth: changes are relatively slow

- 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 (in particular price variations)

SNA steps 4 and 5: cluster households according to household groups derive relevant distributional indicators

Deciles based on net wealth for:

- 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

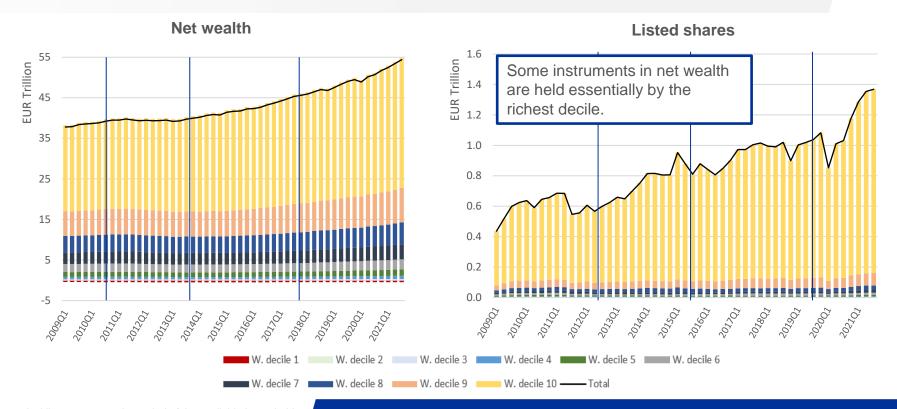
Housing status:

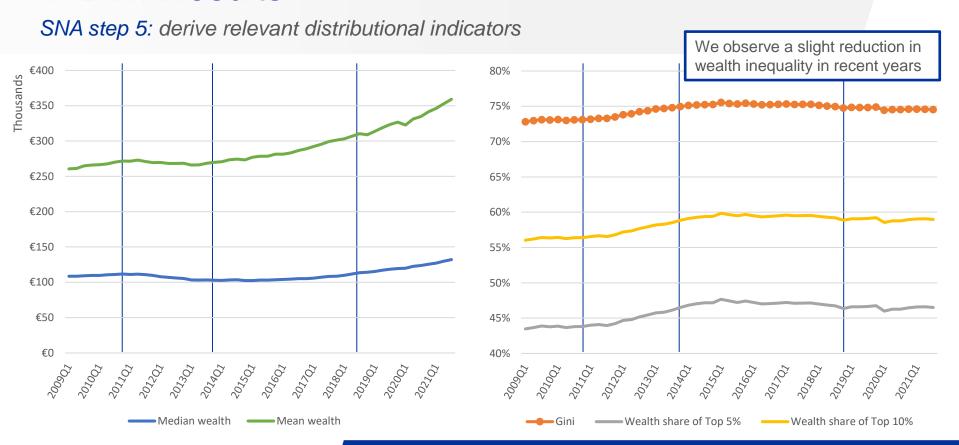
- Owner / Partial owner
- Rental / Free use

- Share of wealth of top 5%, 10% and bottom 50%
- Gini (net wealth)

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

SNA step 4: clustering households according to household groups





5. Way forward(and prospects for the future)

5. Way forward



Already in progress → extension of the data to all euro area countries



Make the **results publicly available** as experimental data (aimed for end-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 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 → collecting their feedback.

6. Lessons learnt

Opportunities

- Some national compilers have taken steps to get access to more administrative data.
- Incorporation of additional data sources (e.g. online surveys, credit card information, ...) might improve estimates of recent quarters.
- Integration of additional distributional information on households from reporting institutions

Challenges

- Users would like to reconcile the wealth data also with income, 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.
- Completing the coverage of DWA (e.g. currency, pension entitlements)
- 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!