

Distribution of wealth in line with National Accounts

Information on ESCB project



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Overview

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Motivation

Improving our understanding of wealth inequality

High demand for distributional data

- Fairness of income and wealth inequality discussed at political level
- G20 Data gaps initiative
- Monetary policy analysis and wealth effects

Differences between survey data and National/Financial Accounts

- **Surveys** measure distribution of wealth
- NA/FA measure levels & developments
- Concepts & definitions differ

Production of timely estimates

- **Surveys** very granular, but low frequency & timeliness
- Macro statistics frequent & timely, HHs as one aggregate sector only
- The **best of both worlds** achievable?

Linking micro and macro data on wealth by the ESCB

Distribution Household Finance and Consumption Survey (HFCS)

- First survey: ~ 2010
- Frequency: every 3 years
- All 19 euro area countries plus HR/HU/PL, euro area aggregates (2017 survey)
- National surveys carried out by countries
- 2017 survey with a total of 91,000 HHs
- Coordination by ESCB network (HFCN)

Aggregate Financial Accounts (FA) and non-financial assets

- Quarterly series, starting 1999
- All EU countries, euro area aggregates
- Compilation by NCBs/NSIs
- Complemented by national accounts non-financial assets
- SNA/ESA methodology
- Coordination by ESCB working group (WG FGS)

Distributional Wealth Accounts (DWA)

- Linking HFCS and FA by instrument
- Align estimate to FA/NA time series
- **Coordinated** by ESCB expert group (EG DFA, ECB/Banca d'Italia cochair, NCBs, NSIs, Eurostat, OECD)

Specific features of <u>wealth</u> measurement and ESCB approach

Distribution: more skewed than for income and consumption

Changes over time: as outstanding amounts → more stability

Coverage in data sources:

- Administrative sources more scarce than for income
- Issues of non-response, underreporting and "missing rich" in surveys

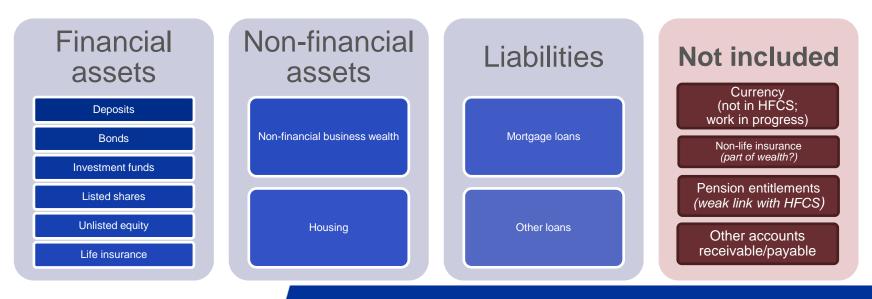
ESCB approach

- For all countries the same (micro) household survey source (HFCS)
- Common DWA "baseline" estimation model which may be improved at country level

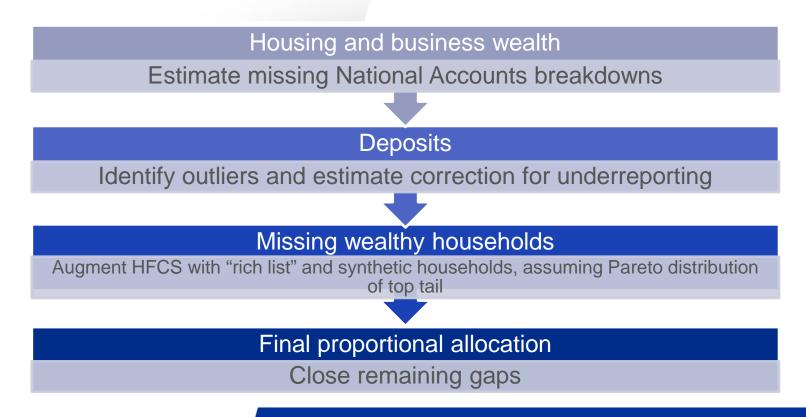
Wealth concept for DWA

Aim: link items in household net wealth between the HFCS and FA/NA

 Items with high or medium comparability of concepts, covering about 90% of euro area households assets and liabilities

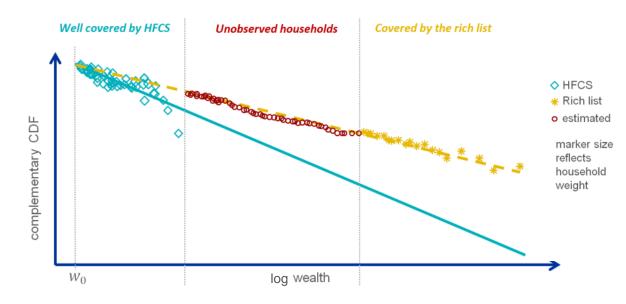


Estimation steps – overview



Estimation steps – missing wealthiest households

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



Time series and frequency

Annual (if possible quarterly) time series as one major value added

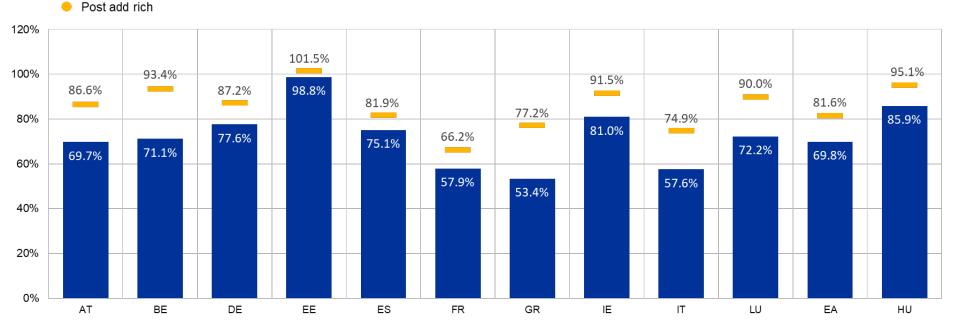
- Time series
 - Interpolate quantile shares between 3 HFCS periods
 - Extrapolate after latest HFCS period using fixed distribution
 - Method allows to capture some of the short-term distributional changes (e.g. due to price variations of instruments at given instrument holdings)
- Frequency:
 - FA users typically focus on quarterly data and recent developments
 - Quarterly DWA use the same assumptions as annual DWA would

3. DWA results

Raw HFCS

Improvement in coverage ratios

DWA adjustments close a significant part of the **coverage gap** in most countries



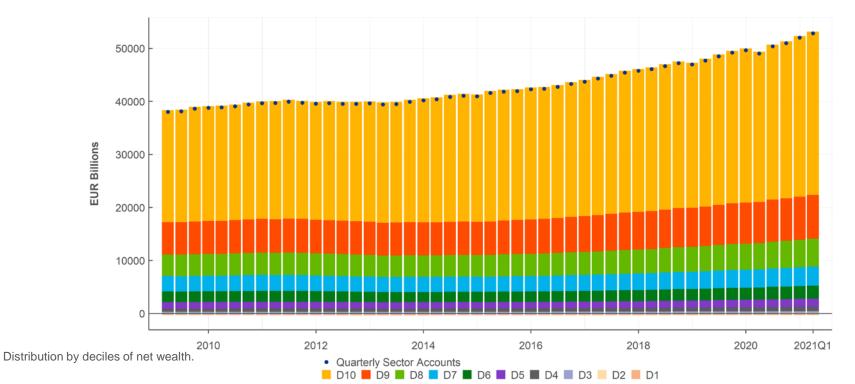
Coverage ratios compare raw and adjusted HFCS aggregate values for net household wealth with their FA/NA counterparts. All data for HFCS wave 3 and FA/NA from 2018.

Changes in distributional indicators

| Euro area | HFCS (raw data) | After add rich | DWA (after final grossing up) | |
|---------------------|--------------------|-------------------|--|--|
| Share of net wealth | | | | |
| Top 1% | 19% | 27% | 28% | |
| Тор 10% | 53% | 58% | 59% | |
| Bottom 50% | 4.2% | 4.2% | 4.3% | |
| Gini coefficient | 0.712 | 0.737 | 0.743 | |
| Median wealth | 88 946 | 91 449 | 109 807 | |
| Mean wealth | 214 263 | 246 551 | 302 033 | |

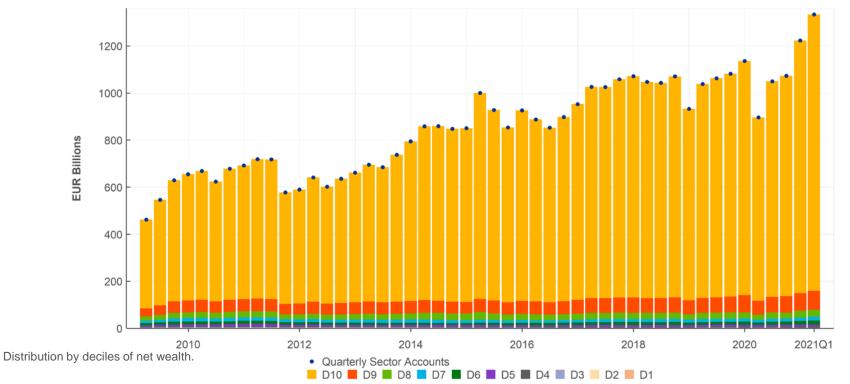
Time series

Net wealth, euro area aggregate | Decomposition of FA total



Time series

Listed shares, euro area aggregate | Decomposition of FA total



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4. Way forward

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- Release experimental results to ESCB users
- Later decision on regular publication
- Involve more EU countries and refine methods
- Collaborate internationally (G-20 recommendation)

Thank you. Questions welcome!

Further questions may also be sent to henning.ahnert@ecb.europa.eu

Annex

Annex: DWA breakdowns by instrument

- Net wealth
- Total assets
- Total liabilities
- Deposits
- Debt securities
- Listed shares
- Investment fund shares

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

Annex: Breakdowns by working and housing status

Working status

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

Housing status

Owners/Tenants

Annex: Additional DWA indicators

| Number/proportion of households with wealth over 1 million euro | Top 5% share of wealth | Top 10% share of wealth | Bottom 50% share of wealth |
|--|---------------------------|----------------------------|----------------------------|
| GINI (wealth concept) | Median Wealth | Mean Wealth | Debt to assets ratio |