

Distribution of wealth in line with National Accounts

Information on ESCB project



Henning Ahnert European Central Bank

G20 DGI-2 Workshop on Household distributional accounts, 4-5 November 2021

Overview

1	Introduction

- 2 Methodology
- 3 DWA results
- 4 Way forward

5 Annex

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

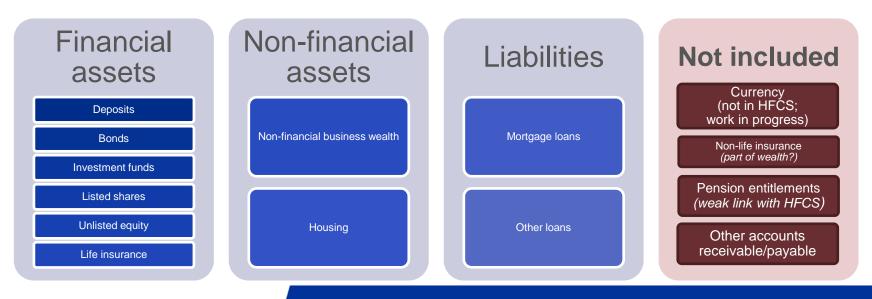
ESCB approach

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

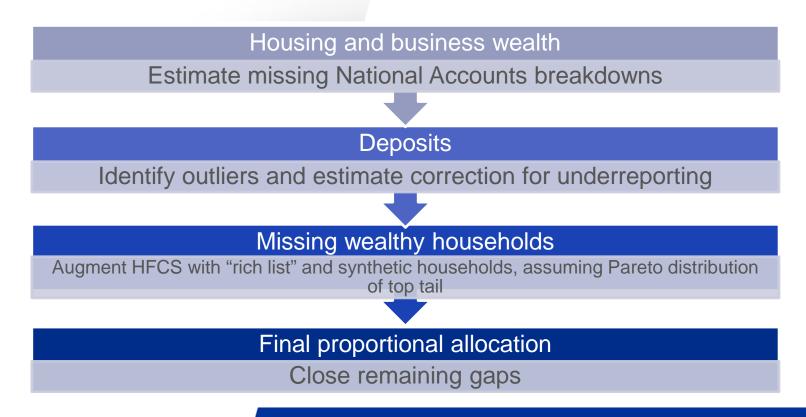
Wealth concept for DWA

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

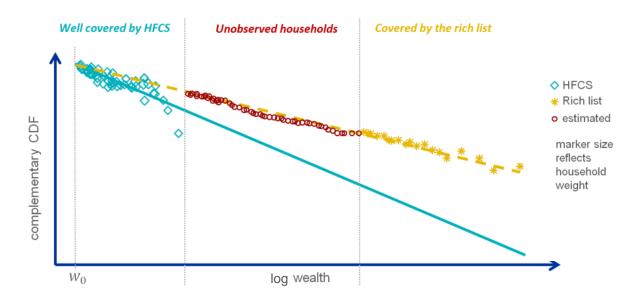


Estimation steps – overview



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

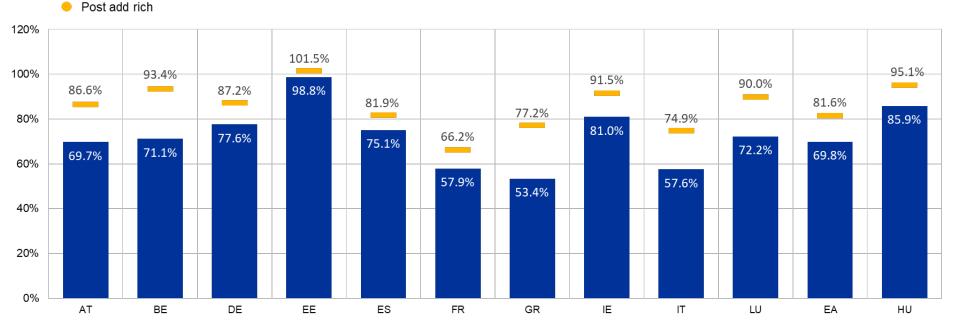
- Time series
 - Interpolate quantile shares between 3 HFCS periods
 - Extrapolate after latest HFCS period using fixed distribution
 - Method allows to capture some of the short-term distributional changes (e.g. due to price variations of instruments at given instrument holdings)
- Frequency:
 - FA 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



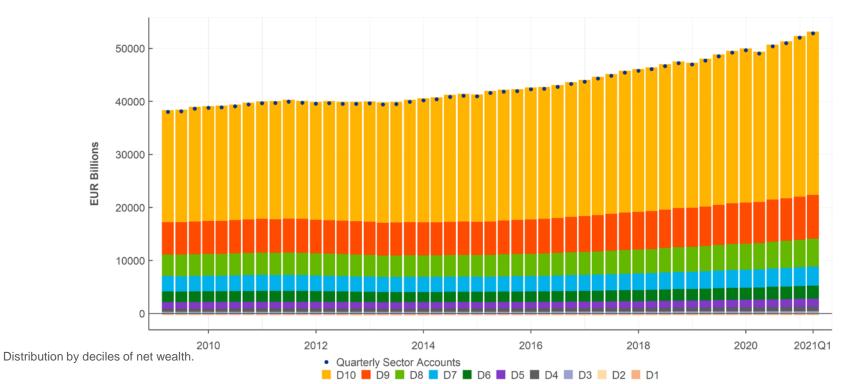
Coverage ratios compare raw and adjusted HFCS aggregate values for net household wealth with their FA/NA counterparts. All data for HFCS wave 3 and FA/NA from 2018.

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	

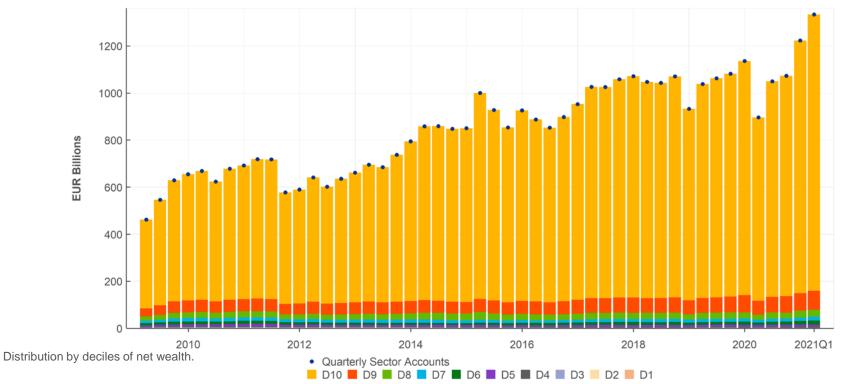
Time series

Net wealth, euro area aggregate | Decomposition of FA total



Time series

Listed shares, euro area aggregate | Decomposition of FA total



16

4. Way forward

4. Way forward

- 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