



Work of the EG DNA

Workshop: How to measure inequality in National Accounts:
The NTA, DINA and EGDNA Perspectives

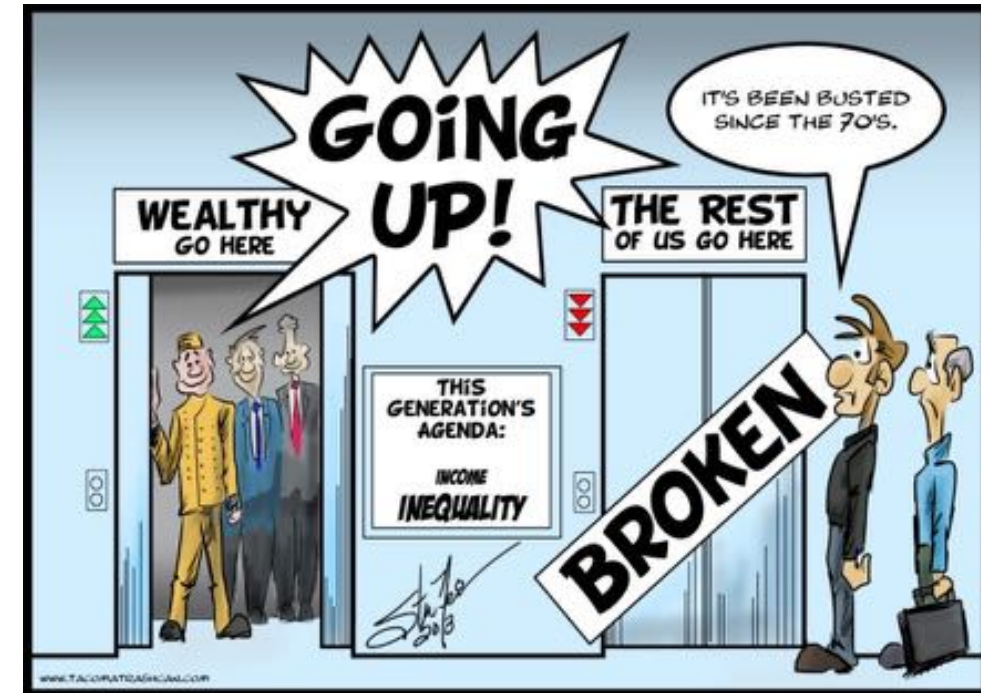
Paris, 17 February 2023

Jorrit Zwijnenburg (OECD)



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Introduction



Introduction

- **Clear need** for systematic, robust and comprehensive data on economic inequality
- Distributional results aligned to national accounts **complement** micro results in various ways:
 - **More comprehensive** picture of economic inequality
 - Consistent information on **three dimensions** of economic well-being
 - In line with **important macroeconomic aggregates**
 - Capturing households and transactions that are typically **underrepresented** in micro data
 - A high degree of **international comparability**
- The OECD and Eurostat launched an **Expert Group on Disparities in a National Accounts framework**
- The group developed a **template** and **guidelines**
- Several countries are **publishing** results

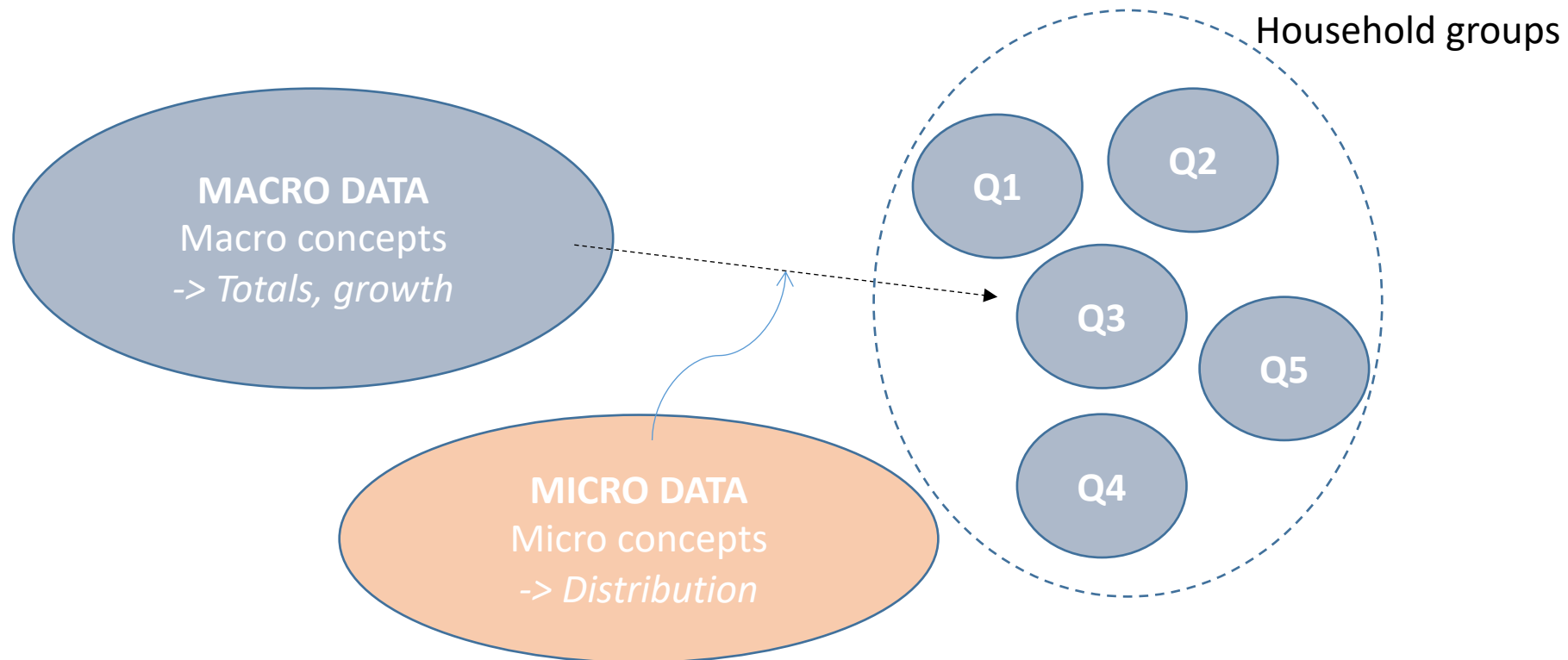


Aim of the project



Aim of the project

Develop methodology to produce **distributional** results for household **income, consumption and wealth** consistent with national accounts concepts using micro data sources

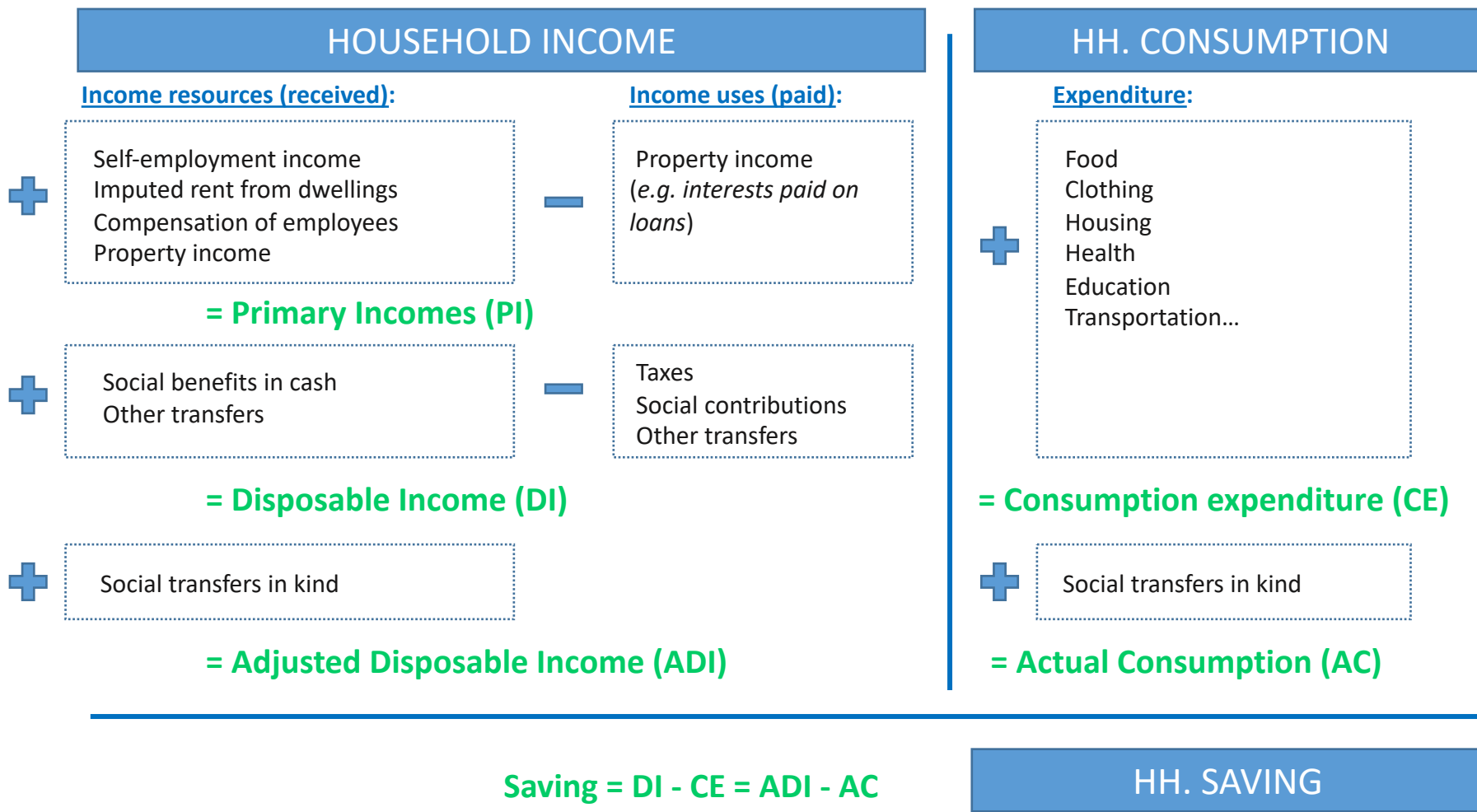




The work of the EG DNA

- Distributional results for three [household groupings](#):
 - Disposable income quintile (5 groups)
 - Main source of income (4 groups)
 - Household type (8 groups)
- The unit of analysis is the [household](#)
- OECD-modified [equivalence scale](#) is used to allocate households to quintile groups
- Also collection of [socio-demographic information](#) (age, gender, education level, housing status, etc.) accompanying the distributional results
- Calculations performed by members of the group: AUS, AUT, BEL, CAN, CHE, CZE, FRA, GBR, IRL, ISR, ITA, JPN, KOR, MEX, NLD, NZL, PRT, SVN, SWE, USA, ...
- Centralized approach to compile results for countries not engaging in work
- Results have been included in [online databases](#) of OECD and Eurostat

Income and consumption concepts

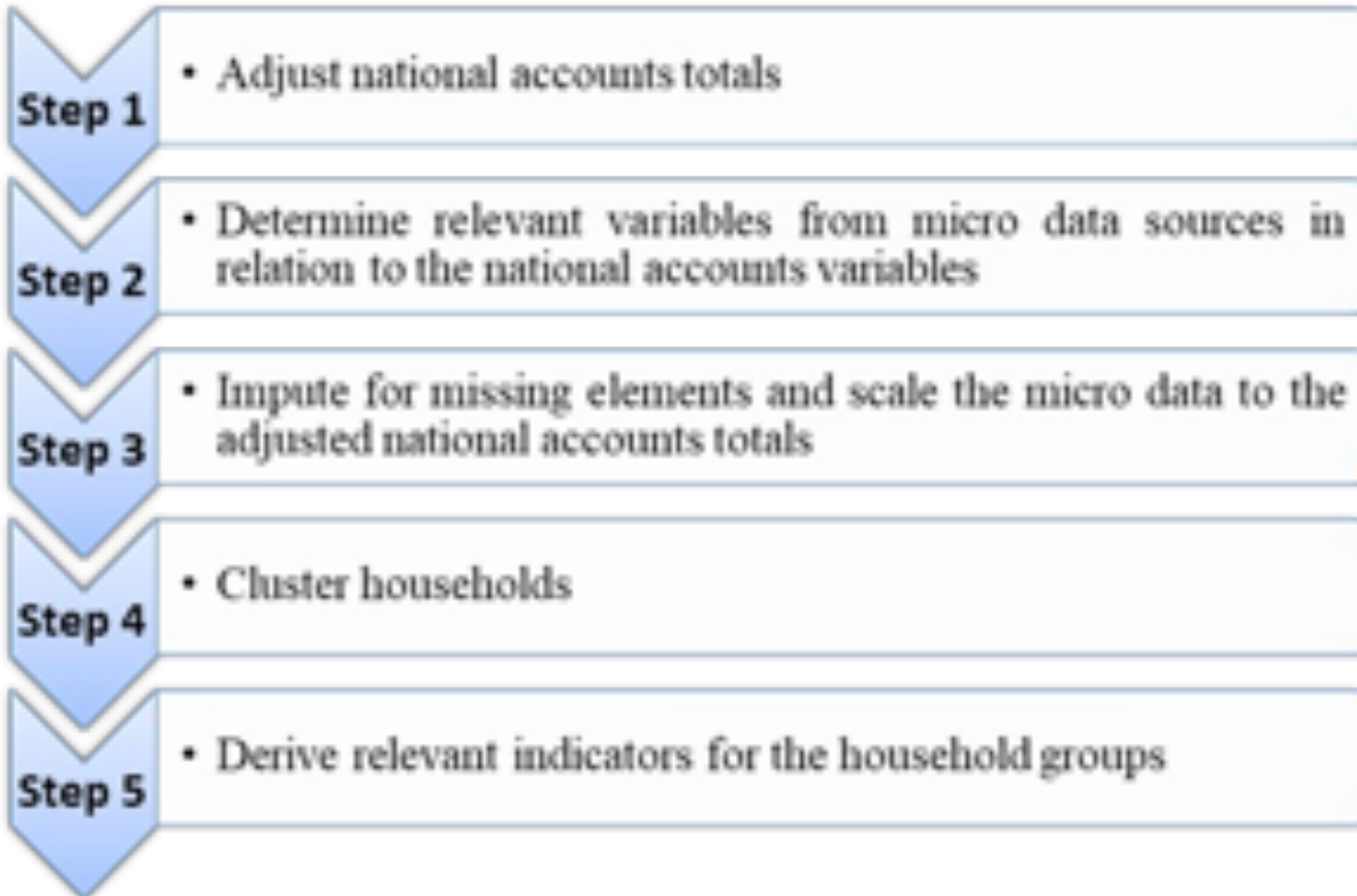




Basic methodology

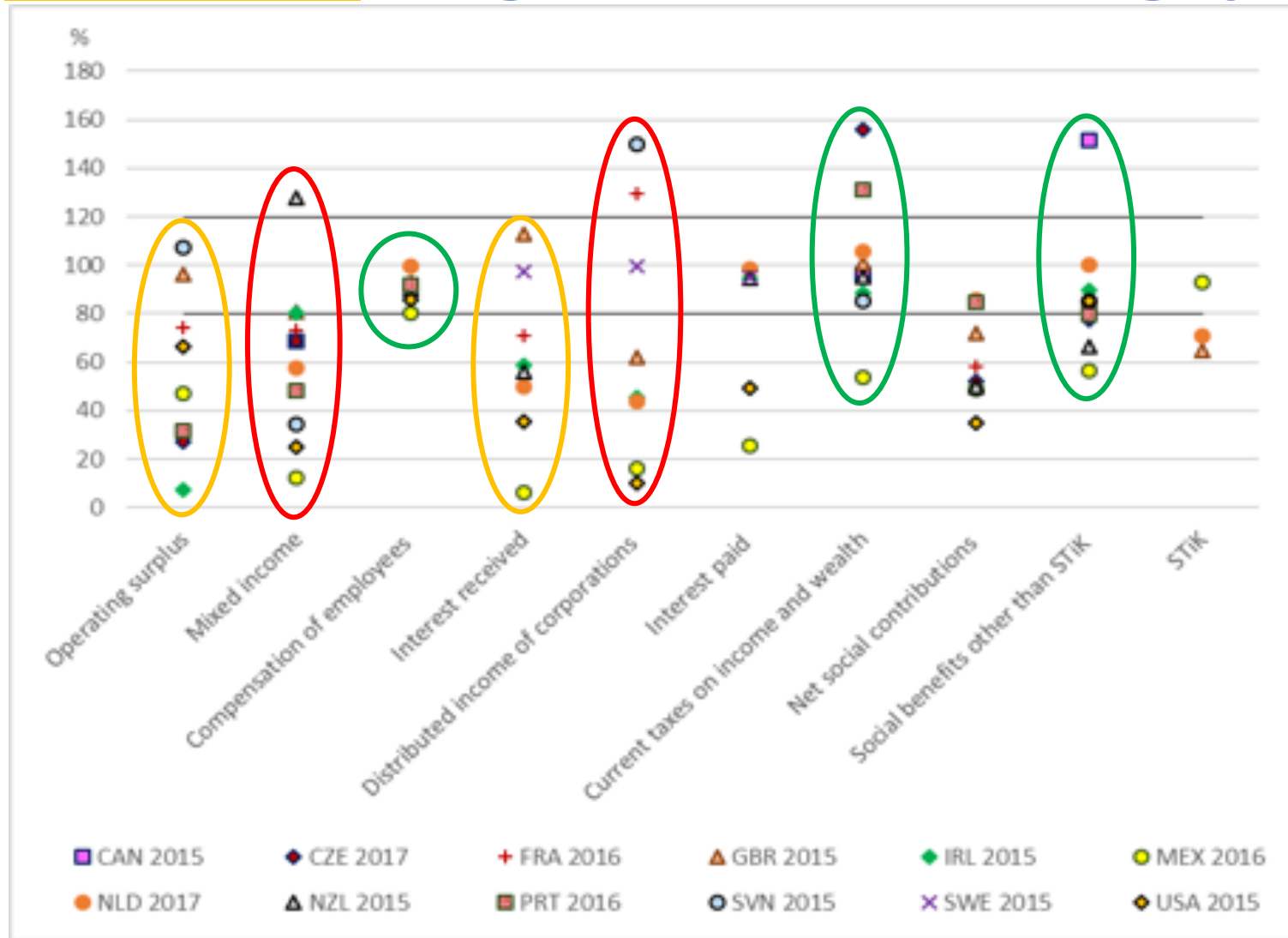


Basic methodology





Main challenge: Micro-macro gaps



Relatively good alignment for

- Compensation of employees
- Current taxes
- Social benefits in cash

Poor alignment for

- Mixed income
- Distributed income of corp's

Also relatively large gaps for

- Operating surplus
- Interest received

A close collaboration is needed between social statistics' experts and national accountants to understand and close the gaps!!



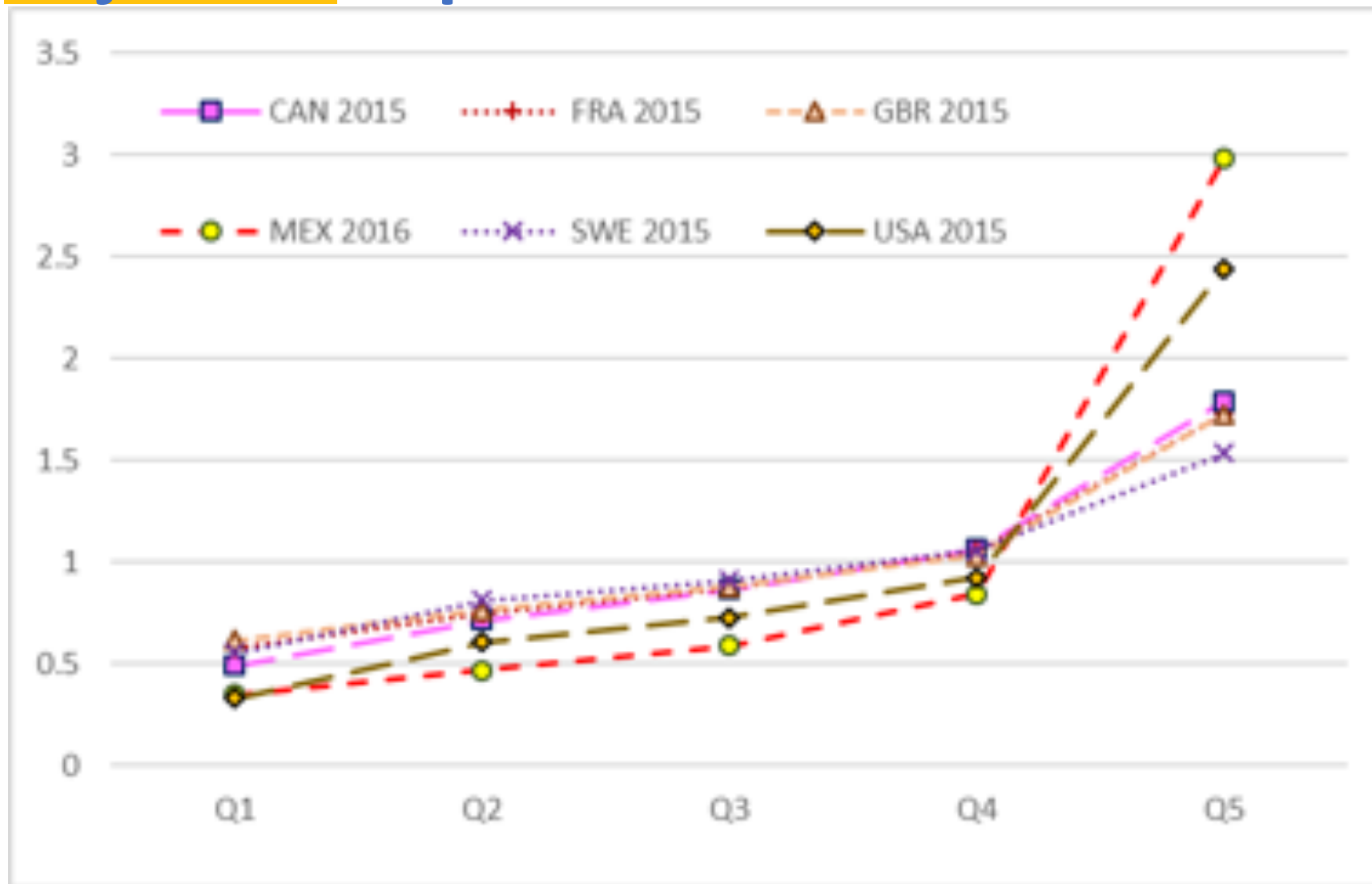
Results



<https://doi.org/10.1787/615c9eec-en>



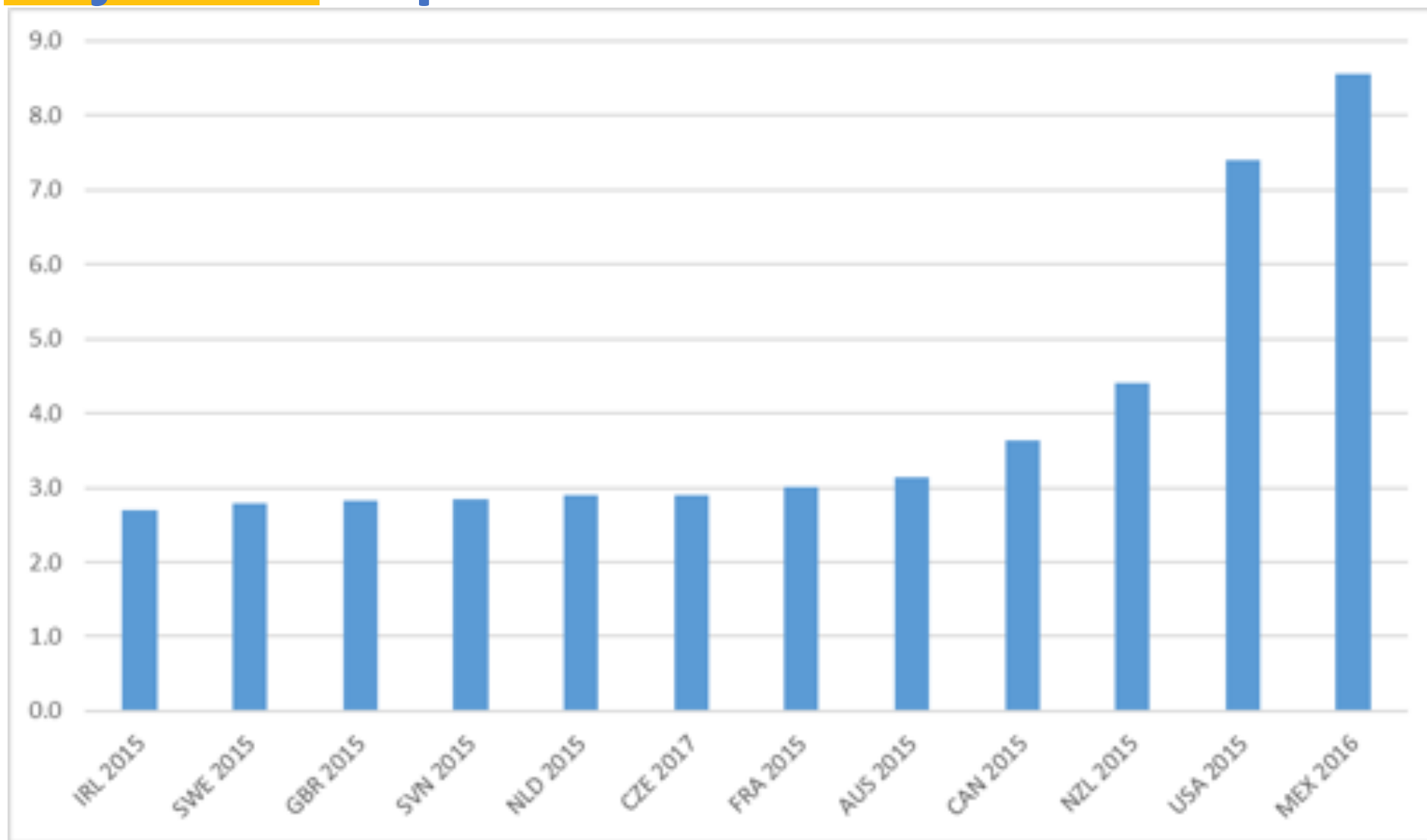
Results: Ratio to the average Adjusted disposable income





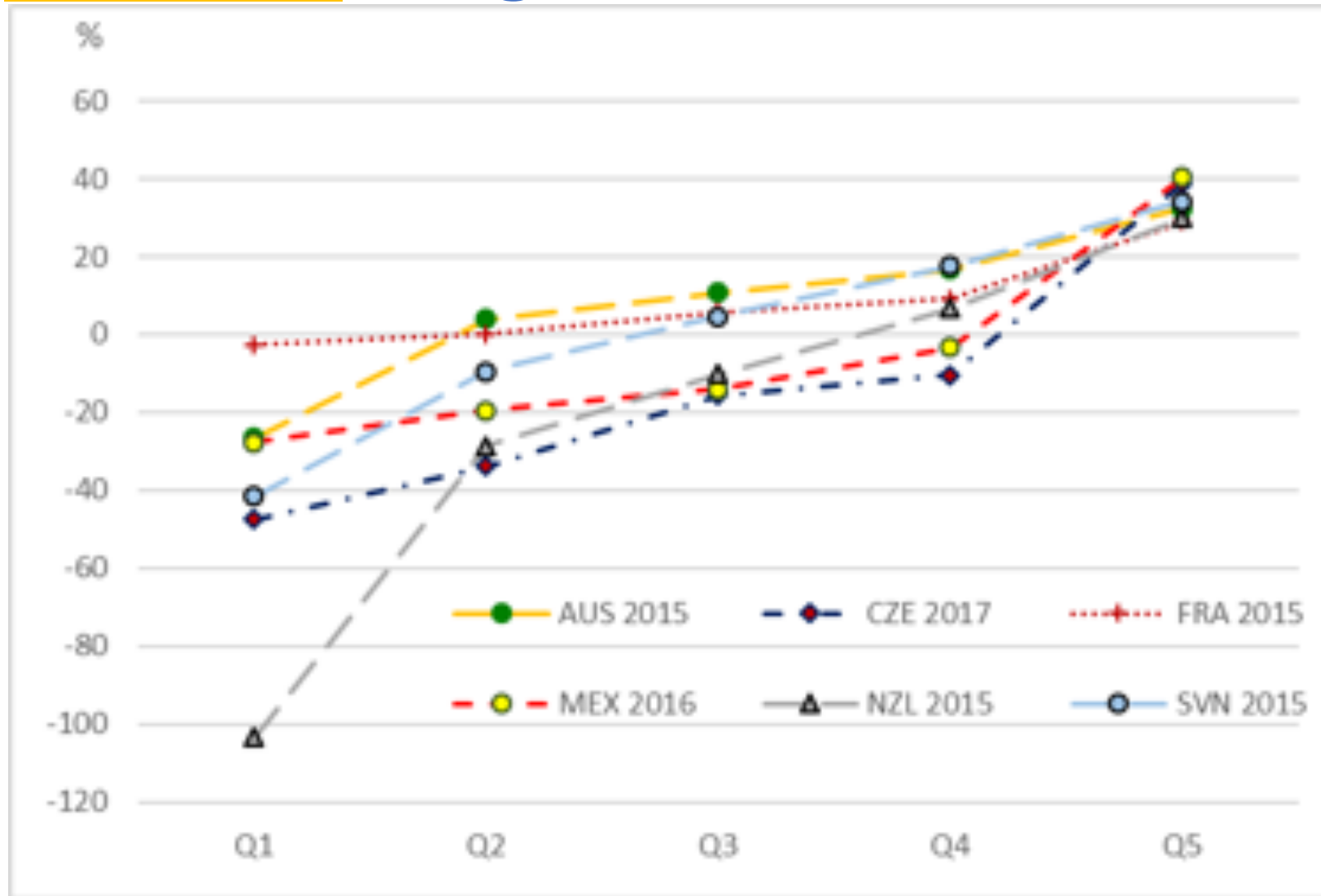
Results: Ratio highest to lowest (Q5/Q1)

Adjusted disposable income





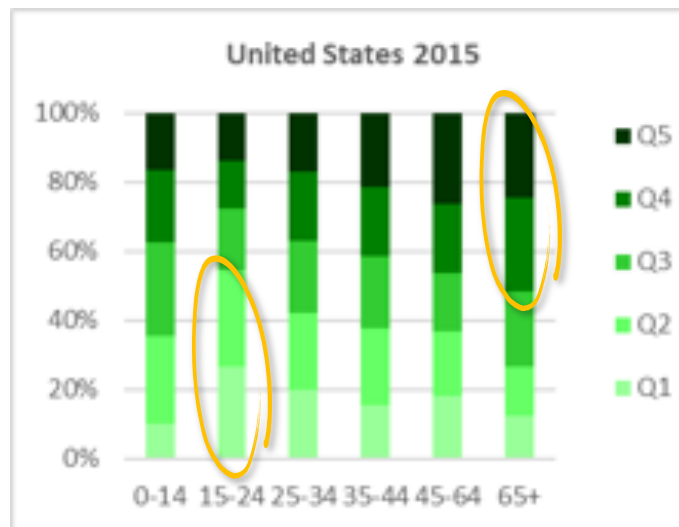
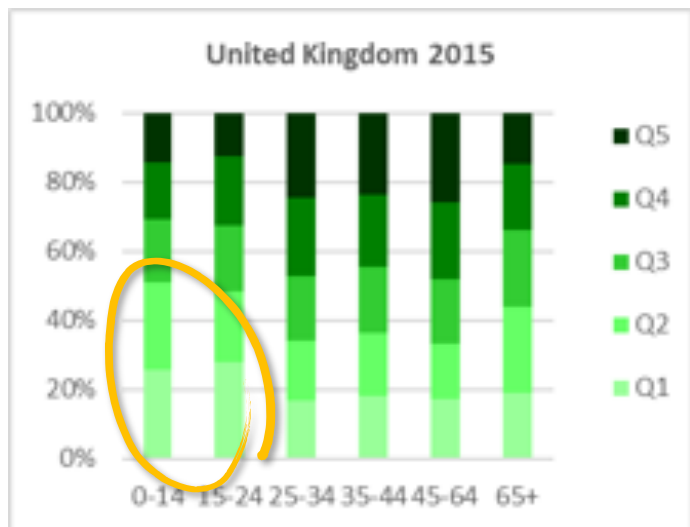
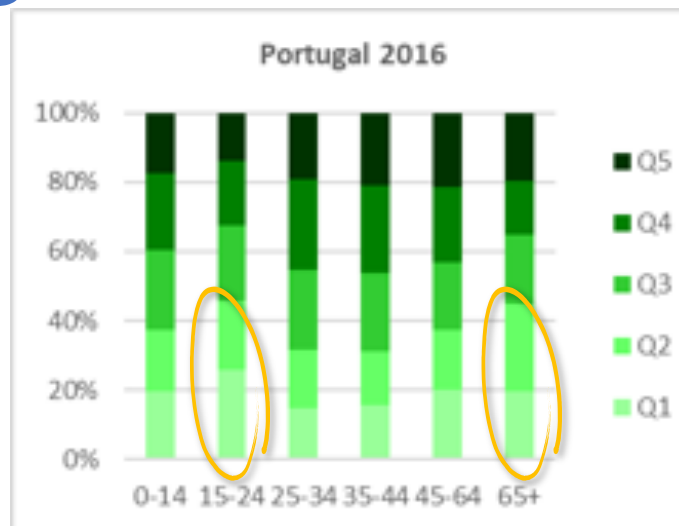
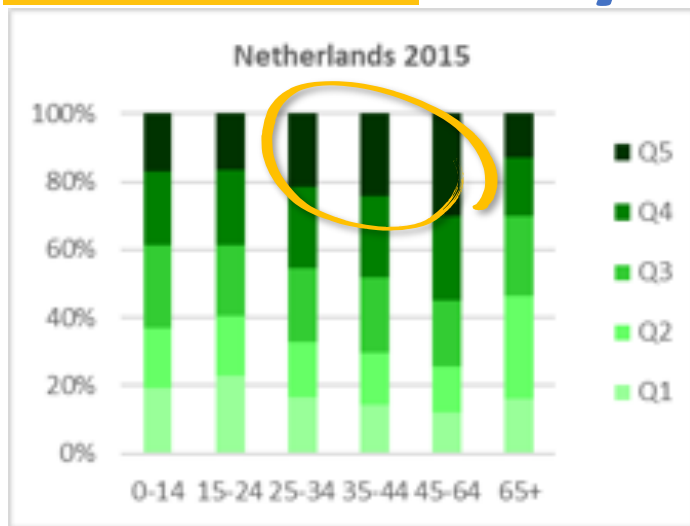
Results: Saving ratio





Results: Socio-demographic information

Breakdown by age



Younger persons more concentrated in lower income quintiles in GBR

In US group 15-24 tends to be in lowest income quintiles

Relatively strong concentration of 65+ in higher income quintiles in US

Persons in middle age groups have highest income in NLD

Homogenous composition in PRT, with slightly larger concentration of 15-24 and 65+ in lower quintiles



Comparison with WID.world



Comparison with WID.world

- Both projects target distributional data **in line with national accounts**
- However, they use **slightly different** concepts and methods, e.g.:
 - **Income concept**: EG DNA focuses on adjusted household disposable income, WID.world on national income, i.e., also including income of other sectors in the economy
 - **Target population**: EG DNA targets private households, WID.world adult individuals
 - **Methodology**: Different data sources and assumptions may be applied with regard to micro-macro gaps and imputations
- Differences may give rise to **different outcomes**
- **Good understanding** is key to assist users in assessing which measure best suits their purpose

Main differences on income side

| Comparable SNA measure | Pre-tax factor income | Pre-tax national income | Post-tax disposable income | Post-tax national income |
|---|-----------------------|-------------------------|----------------------------|--------------------------|
| Primary income of HH sector | X | X | | |
| HH disposable income | | | X | |
| HH adjusted disposable income | | | | X |
| Differences with SNA measure | | | | |
| Taxes less subsidies on production | + | + | | |
| Primary income of corporations | + | + | +* | +* |
| Primary income of government (net of taxes less subsidies on production) | + | + | + | + |
| Gap between pension contributions and benefits | | + | + | + |
| Net other current transfers | | | - | - |
| Collective consumption | | | | + |
| Government surplus | | | | + |

* Net of current taxes paid



Next steps



Next steps

- Next steps for EG DNA:
 - Broaden the **range of countries**, amongst other via a centralized approach
 - Explore possibilities to increase **granularity, timeliness** and **frequency**
 - Further **improve methodology**, particularly in areas of micro-macro gaps and imputations
- Next steps in the area of **wealth distribution**:
 - Launch of an **Expert Group on Distribution of Household Wealth (EG DHW)**:
Development of distributional results on wealth for a large range of countries, leveraging of the work of the ECB Expert Group on Distributional Financial Accounts



THANK YOU

For more information:
Jorrit.Zwijnenburg@oecd.org

 @OECD_Stat

 www.oecd.org/sdd

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