United Nations Network of Economic Statisticians. Fifth Beyond GDP Sprint 2023 Meeting

Mapping Distributional Frameworks

Session 3: Inequality through the lens of National Transfer Accounts

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NTA as a measure of the Generational Economy

NTA integrate **demography** into National Accounts (so far focus on **age** and **gender**)

- Generation of income
- Use of disposable income for consumption and savings
- Redistribution of income through public and private transfers
- Asset based reallocation



Source: Hammer (2020), "National Transfer Accounts for Austria 2015" https://doi.org/10.11587/4EOXZO

Novelty of NTA:

- Integrating demography into distributional analysis
- Analyzing the **distributional effect of public** and **private transfers**

Allows to answer:

- How does demographic change affect the economy and public redistribution
- How are **distinct age groups** (generations) affected by economic changes
- How does the role of **women and men** differ for pubic and private redistribution

Ex.1: Which age groups benefit from and contribute to **public transfers**?

Ex.2: How much does each age group of men and women **benefit from** and contribute to **private transfers**, including unpaid work ?

Ex.3: How is **income of different age groups** changing over time?

Ex.4: Are families disadvantaged in the generational economy ?

Ex. 1 per capita Public Transfer Benefits & Contributions – Austria 2015



Source: Hammer (2020), "National Transfer Accounts for Austria 2015" <u>https://doi.org/10.11587/4EOXZO</u>

Ex. 2: per capita Private Transfers – Austria 2015



Private non-market transfers



Source: Hammer (2020), "National Transfer Accounts for Austria 2015" https://doi.org/10.11587/4EOXZO

Input approach for measuring private transfers:

time used for non-market benefits and contributions is valued with wages that could be earned on the labor market with similar activities.

Ex.1 & Ex.2 at the population level by GENDER – Austria 2015



private transfers to < 25: 50 billions

public transfers to 60+: 58 billions

Ex.3 Change in age-specific income in % of 2008



Source: Spitzer, Hammer & Reiter (2023). Intergenerational income dynamics in Europe: Past trends and current challenges. Eurofund working paper WPEF23039. <u>https://www.eurofound.europa.eu/sites/defau</u> <u>lt/files/wpef23039.pdf</u>



Source: Hammer & Prskawetz (2023). Measuring private transfers between generations and gender: an application of national transfer accounts for Austria 2015". In: Empirica. doi: https://doi.org/10.1007/s10663-022-09542-z

> Income, public and private transfers strongly related to age and gender

=> Income and transfers affected by demographic change

Pronounced differences in age specific income and its change over time

> Importance to consider private transfers when considering distributional aspects

Ongoing work, also related to EG-DNA and DINA:

> Importance to consider w/in age group differences, e.g. by family status

Who is using the NTA framework?

- > social scientists interested in the generational economy
 - Economists to calibrate their macro-economic models.
 - Research on intergenerational equity, inequalities between gender, inequality between socio-economic groups (education).
- Use in popular-scientific publications (by scientists, journalists), because data are intuitive and illustrative.
- ➢ Governments:
 - National Statistics Office (official statistics): Colombia, Republic of Korea, and Malaysia.
 - Finance Ministry (demographic dividend-sensitive budgeting): Benin, Burkina Faso, Mali, Mauritania, Niger, and Senegal.
 - Planning Ministry (forecasts of economic and fiscal impacts of population change): Bangladesh, Jamaica, and Thailand.
 - Congressional Research, National Academy of Science (research on immigration policy): Chile, USA.

What questions are they trying to answer?

- How does demographic change affect the economy and public redistribution
 Sustainability of generational economy
- How are distinct age groups (generations) affected by economic changes
 Wellbeing by demographic characteristics (ages, gender, families)
- Distinct roles of men and women in the generational economy,

Consistent cross-country comparisons!

How does the NTA framework help them?

- Very intuitive and comprehensive data
- Easy to visualize
- > Available for a wide range of countries https://ntaccounts.org/

Ongoing work:

> Time series of NTAs to monitor the generational economy over time