



BETTER MEASURING DIGITALIZATION

Eurostat initiatives

Outline

- General principles
- Measuring the collaborative economy
- Measuring the digital transformation
- New digital data sources
- Training

General principles

- Measuring the size and observing the different features of the digital economy is of crucial importance
- Requires close international cooperation and multi-stakeholder dialogue on measurement
- Initiatives to develop sound theoretical frameworks and related statistical sources and measurement tools for the digital economy

Measuring the collaborative economy

- Gathering data on size and impact of collaborative economy from major international platforms for statistical use, based on agreements
 - e.g.: short-stay accommodation
- New forms of work:
 - Platform jobs
 - Zero hour contracts
 - ✓ Traditional approach: LFS module
 - ✓ Webscrapping data from digital platforms

Measuring the digital transformation

- Developing, producing and publishing set of indicators of use for scoreboards on digital transformation for orientation and further monitoring the EU policy initiatives in the digital area
- Contribution to the future Digital Economy and Society Index within the EU Commission
 - Coverage of digital connectivity, e-commerce, eservices, e-government, robotics, cloud computing, big data analysis, cybersecurity and digital skills, use of artificial intelligence in the business sector

New digital data sources

- Very diverse including transaction data from mobile telecom operators, sensor data, data obtained from the internet (web-scraped), electronic data on credit card transactions
- Requires effective coordinated approaches for statistical offices to gain and maintain access to data held by private actors

New digital data sources – ct'd

HBS and Time Use

- Eurostat is developing capabilities for conducting smart surveys (for HBS/TUS) including
 - a European platform, providing the functional and technical environment for implementing a set of common functions and configurable services for survey based data collection
 - innovative solutions for processing the input personal data in a privacy-preserving fashion
 - an incentives library and templates for the promotion of citizen engagement and providing building blocks for moving towards citizen statistics

New digital data sources – ct'd

HBS and Time Use

- Eurostat is developing concrete products supporting the HBS and TUS data collection process:

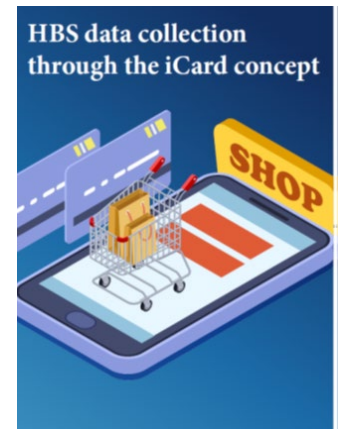
- For TUS: development of a **geolocation** plugin,

to improve the responsiveness of the respondent and for better integration of other information sources, arriving to a more efficient data collection for MS



- For HBS: **iCard** solution,

to use smart devices for automatic data collection processes, reducing respondent's burden: extract data using Quick Response (QR) codes, retailers apps, e-invoices and eDiary to store data coming from these sources



Training

Eurostat courses on digitalization issues included in the European Statistical Training Programme for statisticians