IFC High Level Meeting on Data Governance, co-organised with the International Statistical Institute

22 November 2019, Tunis, Tunisia

Microdata dissemination in Bank of Italy: now and tomorrow[1]
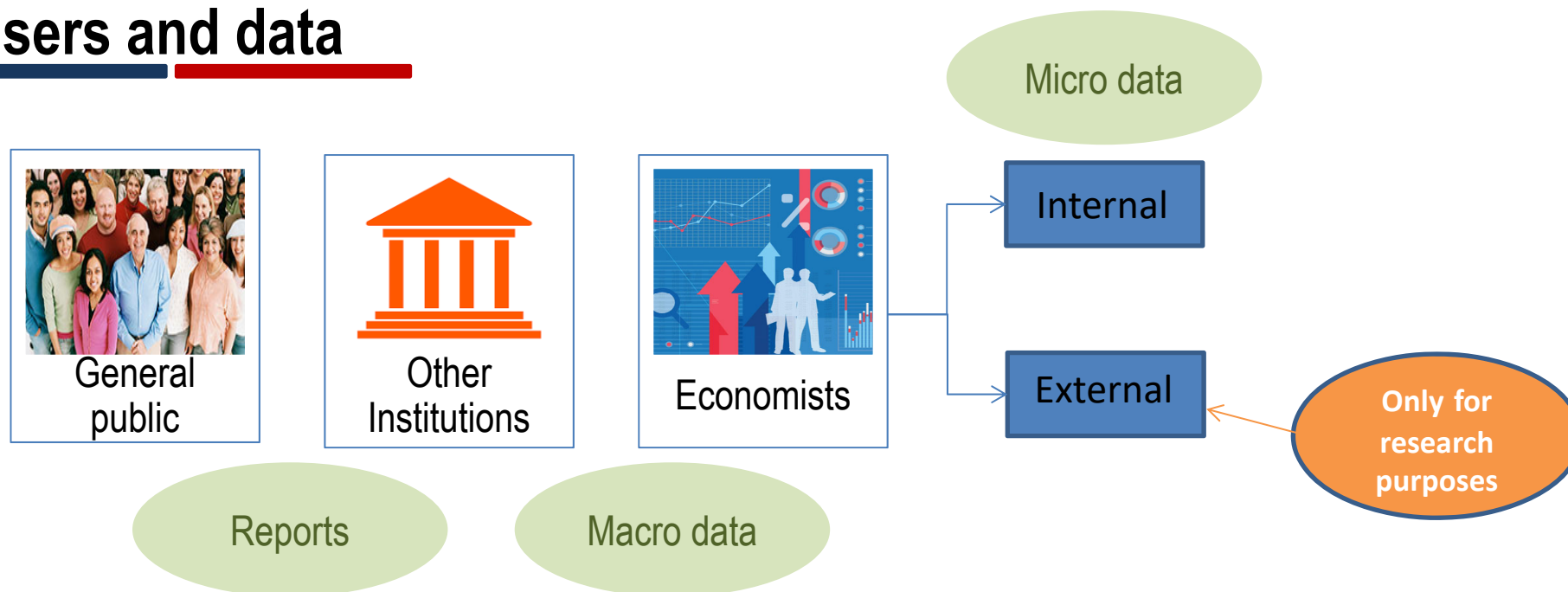
Angela Gattulli,

Bank of Italy

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[1] This presentation was prepared for the meeting. The views expressed are those of the author and do not necessarily reflect the views of the BIS, the IFC or the central banks and other institutions represented at the meeting.

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Microdata dissemination in Bank of Italy: now and tomorrow

Angela Gattulli
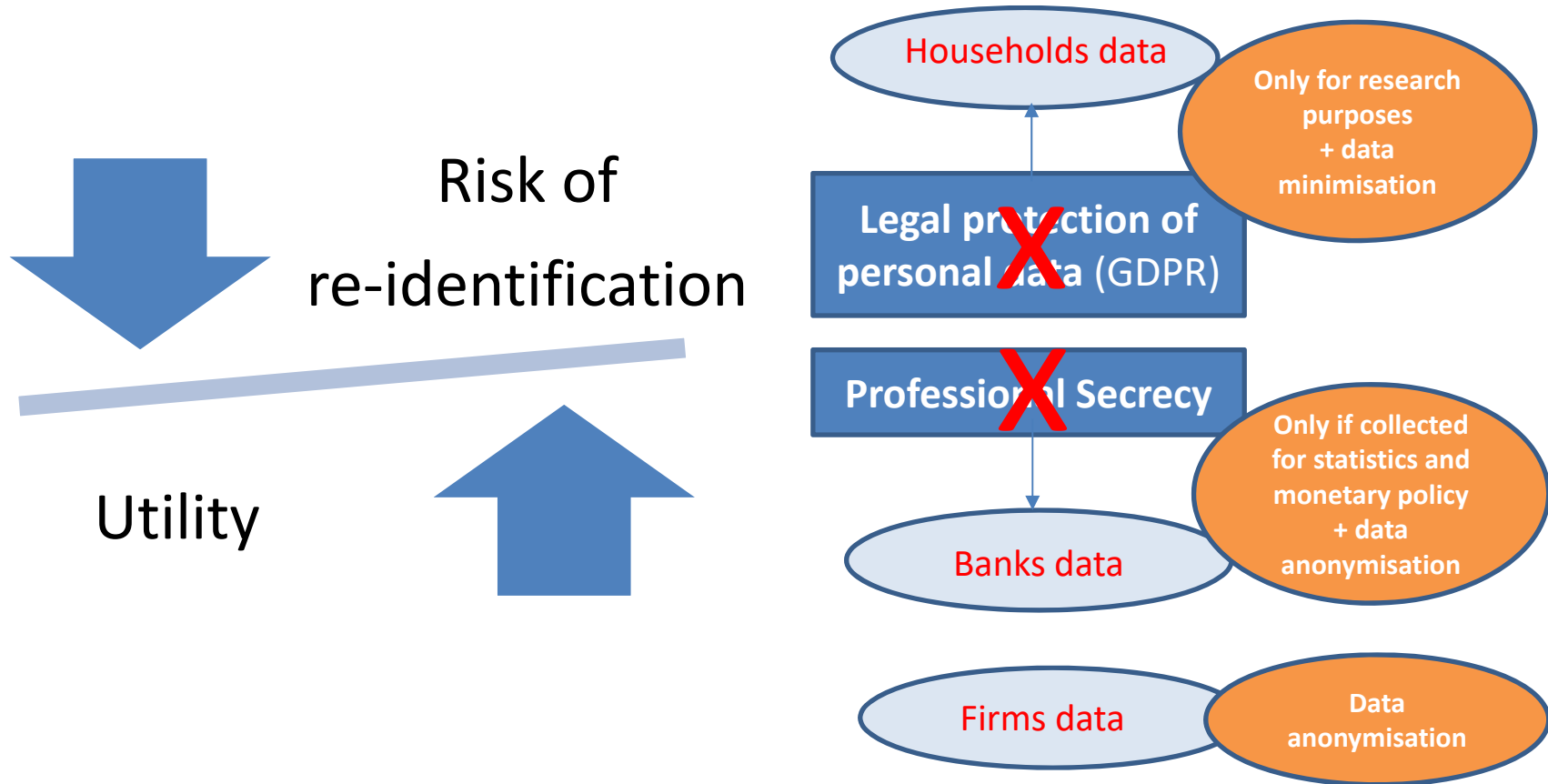**Banca d'Italia**
22 November 2019

Users and data

There is a need for **increasingly detailed – or «granular» – statistics,** which are useful to analyze phenomena such as the distribution of income and wealth and for monetary policy purposes.

- What are the **choices** to make when disseminating microdata?
- What is the **Bank of Italy's experience** and the way forward?

Granular data: confidentiality vs utility and legal requirements

Risk of
re-identification

Utility

Households data

Only for research purposes + data minimisation

Legal protection of personal data (GDPR)

Professional Secrecy

Only if collected for statistics and monetary policy + data anonymisation

Banks data

Firms data

Data anonymisation

Granular data: which tool?

But not all data can be easily anonimysed

Data confounding

Remote processing

Laboratory

Which microdata

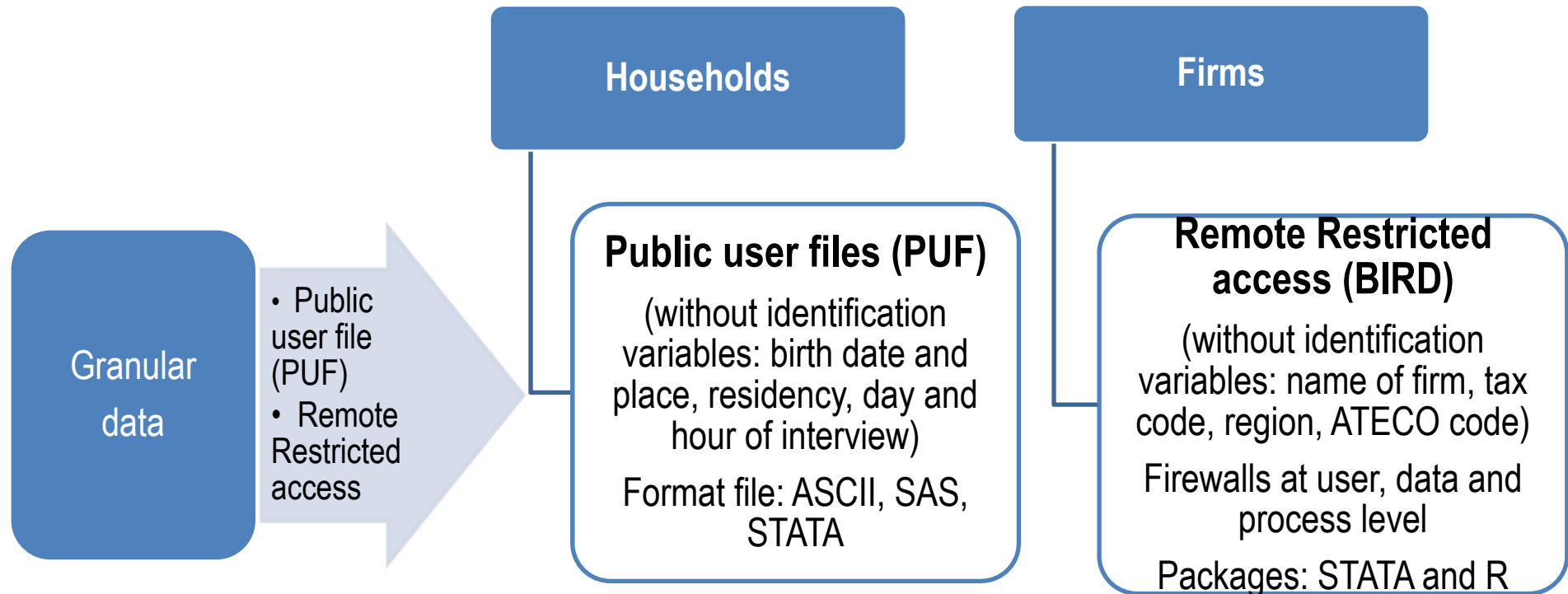Bank of Italy has a long tradition in disseminating granular survey data

Households and individuals

✓ Survey of Household Income and Wealth (collected since 1962)

✓ Eurosystem Survey data (HFCS – Italy, collected since 2010)

✓ Financial literacy of Italian adults (collected since 2017)
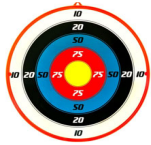
✓ International tourism survey (collected since 1966)

Firms

✓ Survey of Industrial and Service Firms (collected since 1974)

✓ Business Outlook Survey of Industrial and Service Firms (collected since 1993)

✓ Survey of expectations of inflation and growth (collected since 1999)

✓ Italian housing market survey short-term outlook (collected since 2009)

✓ Survey on cross-border transactions in services by non-financial and insurance firms (collected since 2013)

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How

Households

Firms

Granular data

- Public user file (PUF)
- Remote Restricted access

Public user files (PUF)

(without identification variables: birth date and place, residency, day and hour of interview)

Format file: ASCII, SAS, STATA

Remote Restricted access (BIRD)

(without identification variables: name of firm, tax code, region, ATECO code)

Firewalls at user, data and process level

Packages: STATA and R

The way forward: Bank of Italy Research Data Center

GOALS

Expanding the supply of microdata for external researchers

- Facilitating the way internal and external users access microdata

- **Exchanging experience in managing microdata** (eg **INEXDA** and **ISTAT**)

- Improving methodology

- **Fully operational by 2021**

TOOLS

- [PUF](#)

- [BIRD](#)

- [Web Tabulator](#) *(New)*

- [Lab](#) *(New)*

ISSUES

- Legal framework compliance

- Harmonization

- IT instruments for data anonimysation, access management, dataset versioning

- Human resources

- Logistic

THANK YOU

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