



INSTITUTO NACIONAL DE ESTATÍSTICA  
STATISTICS PORTUGAL

# The National Data Infrastructure at Statistic Portugal

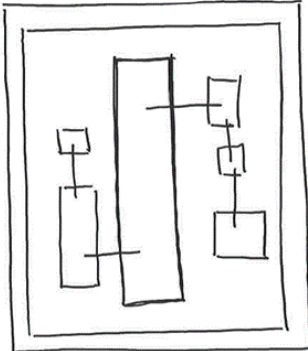
## Recent developments and international examples

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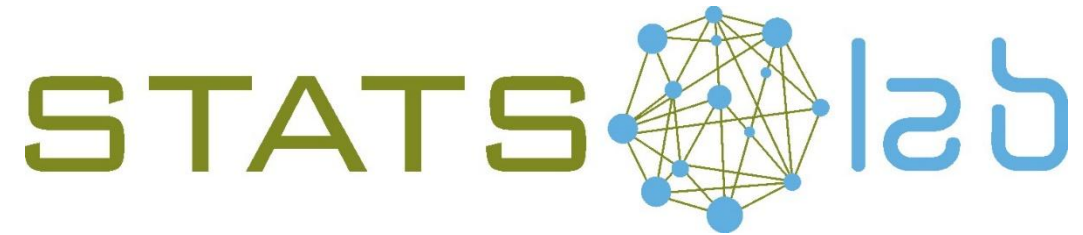
Conselho Superior de Estatística  
30<sup>th</sup> Plenary meeting

December 11, 2020

# The National Data Infrastructure – A Model of Integration

Appropriation and use of administrative data and other sources	Partnerships	New roles
Data integration		Information security and data protection
Innovation	Integrate and share platforms, algorithms, knowledge, ...	Increase the economic and social value of the public good: statistical information





Statistics in development that are part of projects aiming at creating new statistical products

Examples:

Income Statistics at local level – reported income from the Personal Income Tax (IRS) records

Gross monthly earnings per employee using Social Security Data



# Recent developments – New and ongoing projects

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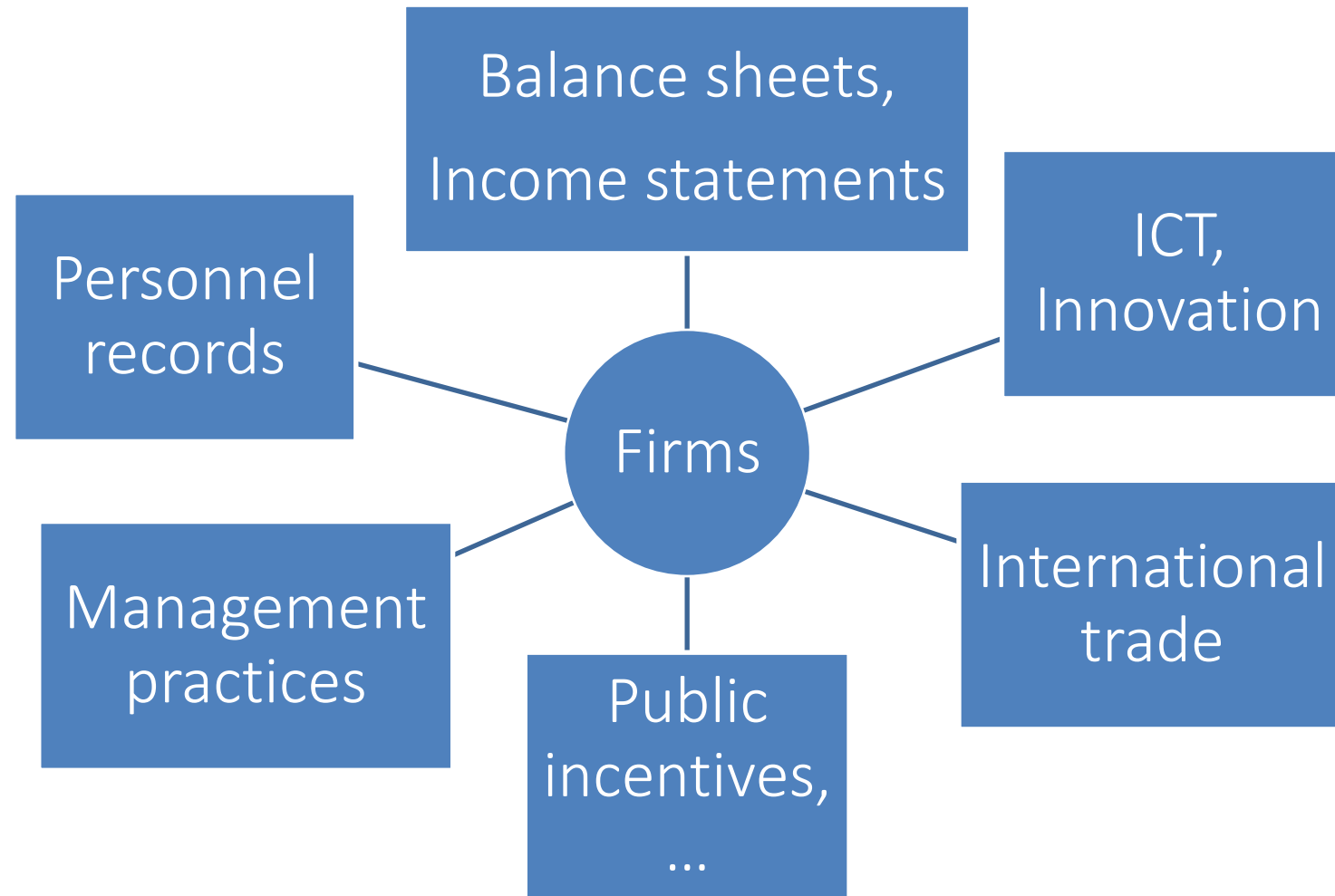
Register-based Census – the Administrative Census

Dwellings and geospatial information

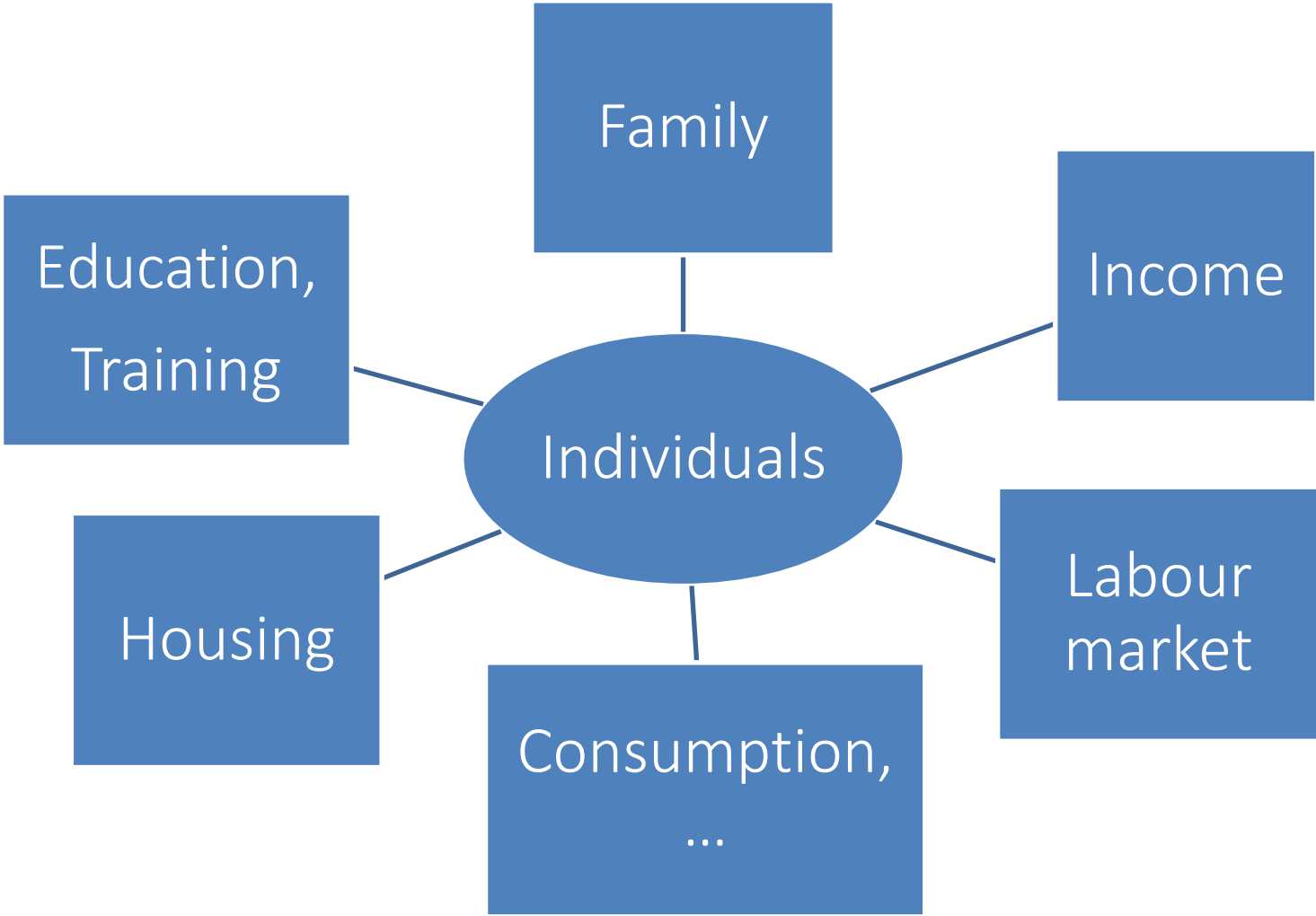
*E-fatura* – electronic receipts (Tax Authority)

Monthly income registers (Tax Authority)





# Integrated Data – Individuals and families



# The National Data Infrastructure at Statistics Portugal

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International examples



- Transforming Statistics Estonia into a **national data agency** – an office that offers data from different sources, support when using data as well as classic official statistics
- Committed to active **data stewardship** across the administration
  - Supporting high quality and optimized use of data
  - Facilitating access to data
  - Promoting expertise, skills and data literacy
  - Promoting common standards, frameworks and data policies
  - Elaborating data strategies, including sharing and collaboration aspects





- Stats NZ's **Integrated Data Infrastructure (IDI)**
- Chief Executive of Stats NZ designated as **Government Chief Data Steward** – supporting government agencies to build their capability and manage the data they hold as a valuable strategic asset
- Data Leadership Hub – to support agencies to use good practice, guidance, resources, and tools
- Data standards and Open Data leadership



# Central Statistical Office – The National Data Infrastructure Ireland

- Improving how data is collected, managed and stored
- To acquire and understand valuable datasets
- To gain influence to improve the datasets
- To understand policymakers' data needs
- To connect with the public and the 'hard to reach'
- Department data → Data Integration → Analysis/insights
- Data protection at the centre of CSO's work
- Part of *Action 7: Optimise the use of data* of the *Our Public Service 2020* - framework for development and innovation in Ireland's public service



# Central Statistical Office – The National Data Infrastructure Ireland

- Partnerships – examples:
  - Housing policy
  - Higher and further education outcomes
  - Sustainable Development Goals (SDG) portal to showcase small area data from the NDI
  - In-house partnership – ‘the administrative Census’ – demonstrate the value of NDI
- CSO supports – MoU; regular meetings for co-ordination, planning, statistical audit and projects
- Training and HR supports



- Center for Big Data Statistics (CBDS)
  - National and international parties from government, industry, science and education work together within the CBDS to develop big data technologies and methods for the production of statistics
  - Knowledge, data and infrastructures are shared in order to create added value

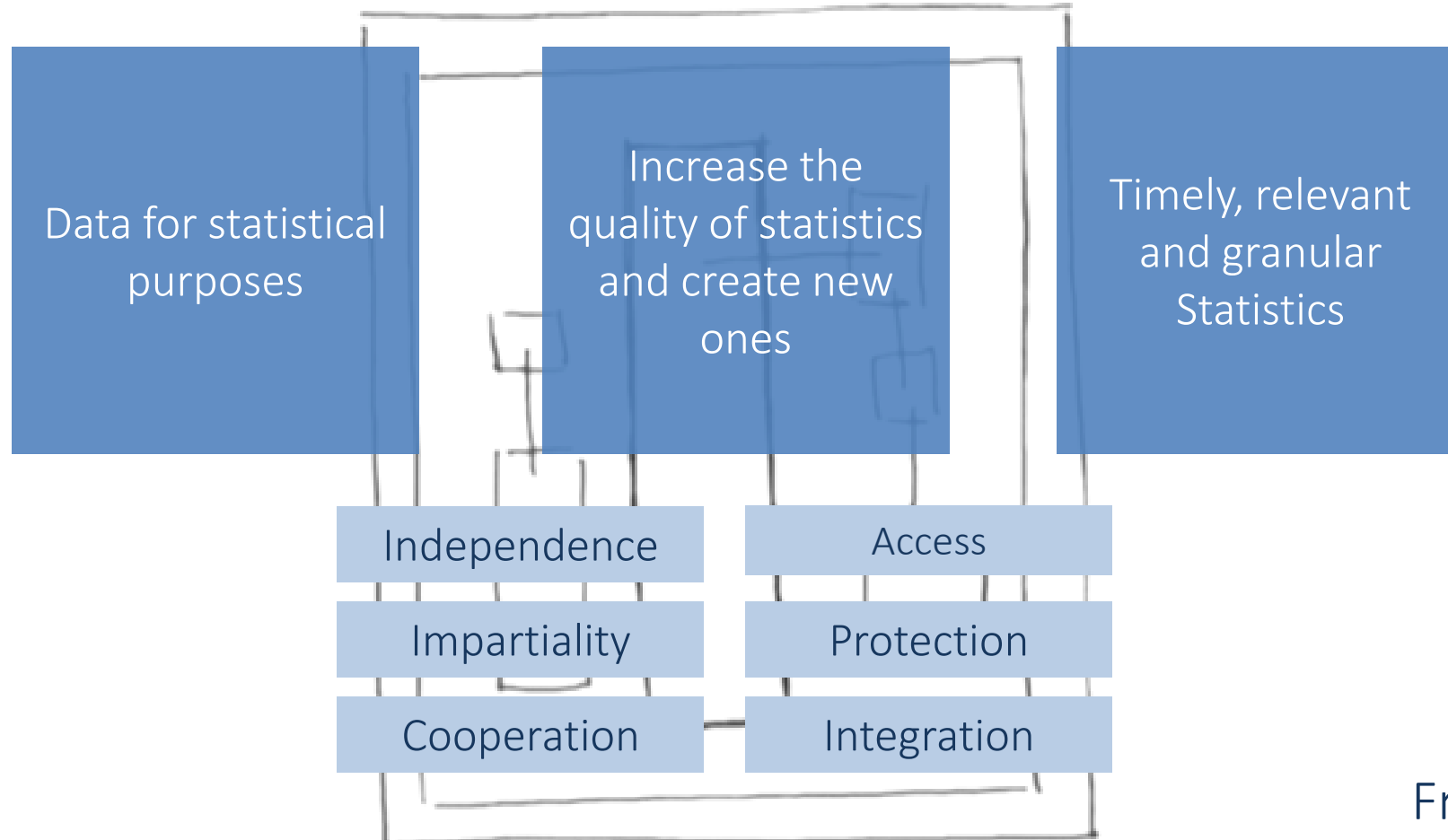


- ODISSEI - Open Data Infrastructure for Social Science and Economic Innovations
  - Some 40 faculties, public policy and research institutes and other research organisations are collaborating on this platform to promote the availability and use of data for social science research
  - The Netherlands is the first country in the world to have infrastructure that combines survey data, register data and a super computer facility in a secure environment
  - With the data it holds, CBS is one of the most important supports for ODISSEI





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Thank you

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