

# Case Study

We welcome the submission of case studies for inclusion in the guide. All fields are optional. At the end of the form there is a place to provide detailed information.

## CASE STUDY

Case Study Title

Please provide a brief description of the work

Organisation

Country (if applicable)

Use of the information provided

The information provided can be shared publicly as part of the guide  
Don't share this information publicly, but only among colleagues in official statistics  
Only use this information in aggregates or as anonymous information  
Unless otherwise indicated, information may be shared publicly as part of the guide.

Contact Person

Email address

Please indicate the reason(s) for integrating data in this case

- As a source for sample frames
- To supplement surveys (e.g. for a part of population, for a set of variables)
- To supplement traditional censuses (e.g. register based population census, agricultural census)
- For replacing sample surveys
- For replacing traditional censuses (e.g. register based population censuses, agricultural census)
- For maintaining registers
- For data validation
- For data editing and/or imputation
- For estimation (e.g. small area estimation)
- To provide geospatial products
- For customised data services
- To create statistical products in partnership with other organisations
- To meet the requirements of measuring the Sustainable Development Goals (SDGs)
- Other

If other, please describe and/or provide links

**Please indicate the types of data being integrated with other data for the production of statistics in your organisation**

Survey data  
Census data  
Automatic identification systems  
Banking/stock records (2220)  
Blogs and comments (1200)  
Car/vehicle location (3122)  
Commercial transactions (2210)  
Credit cards (2240)  
Data from public administration (2100)  
E-commerce (2230) E-Mail (1900)  
Home automation (3111)  
Internet searches (1600)  
Logs (3110)  
Medical records (2110)  
Mobile data content: text messages (1700)  
Mobile phone location (3121)  
Mobile phone: call/text times and positions (312.)  
Personal documents (1300)  
Pictures: Instagram, Flickr, Picasa etc. (1400)  
Satellite images (3123)  
Scientific sensors (3114)  
Security/surveillance videos/images (3115)  
Smart Energy Meters (311?)/Smart gas meters  
Social Networks: Facebook, Twitter, Tumblr etc. (1100)  
Traffic sensors/webcam (3113)  
User-generated maps (1800)  
Videos: Youtube etc. (1500)  
Weather/pollution sensors (3112)  
Web logs (3220)  
Source Classification of types of big data (<https://statswiki.unece.org/display/bigdata/Classification+of+Types+of+Big+Data>) plus additional items

**If other, please describe and/or provide links**

**Please indicate the statistical domain(s) covered by this case study**

Agriculture, forestry, fisheries (2.4.1)  
 Banking, insurance, financial statistics (2.4.6)  
 Business statistics (2.3)  
 Culture (1.9)  
 Economic accounts (2.2)  
 Education (1.3)  
 Energy (2.4.2)  
 Entrepreneurship (3.3.7)  
 Environment (3.1)  
 Gender and special population groups (3.3.2)  
 Globalisation (3.3.4)  
 Government finance, fiscal and public sector statistics (2.5)  
 Health (1.4)  
 Human settlements and housing (1.7)  
 Income and consumption (1.5)  
 Indicators related to the Millenium or Sustainable Development Goals (3.3.5)  
 Information Society (3.3.3)  
 International trade and balance of payments (2.6)  
 Justice and crime (1.8)  
 Labour (1.2)  
 Labour cost (2.8)  
 Living conditions, poverty and cross cutting social issues (3.3.1)  
 Macroeconomic statistics (2.1)  
 Mining, manufacturing, construction (2.4.3)  
 Political and other community activities (1.10)  
 Population and migration (1.1)  
 Prices (2.7)  
 Regional and small area statistics (3.2)  
 Science, technology and innovation (2.9)  
 Social protection (1.6)  
 Sustainable development (3.6.6)  
 Time use (1.11)  
 Tourism (2.4.5)  
 Transport (2.4.4)  
 Yearbooks and similar compendia (3.4)  
 Other

**If other, please describe**

**What is the status of the case study?**

Research/experiment/feasibility study/in development  
 One off/customised production of statistics  
 Ongoing production of statistics with data integration included in the business process  
 No information

## Information technology

The UN guideline: "Using Administrative and Secondary Sources for Official Statistics: A Handbook of Principles and Practices" provides definitions and background information for "administrative sources", "secondary data sources", etc. Link: <https://unstats.un.org/unsd/EconStatKB/KnowledgebaseArticle10349.aspx>

**Which tools (applications, software, etc.) are used in relation to the activity?**

R  
 SAS  
 SPSS  
 SQL  
 Oracle  
 G-Link  
 FEBRL  
 RELAIS  
 CDA  
 ATINE  
 LinkageWiz  
 LinkSolv  
 Link Plus  
 The Link King  
 ChoiceMaker 2  
 Other commercial tools  
 Other in-house developed tools  
 Other outsourced services  
 Other open source tools

**Please provide additional details  
and/or links about the tools you  
use**

## Methods

The UN guideline: "Using Administrative and Secondary Sources for Official Statistics: A Handbook of Principles and Practices" provides definitions and background information for "administrative sources", "secondary data sources", etc. Link: <https://unstats.un.org/unsd/EconStatKB/KnowledgebaseArticle10349.aspx>

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### What methods are used?

Deterministic record linkage (links based on individual identifiers that match among the available data sets)  
Probabilistic record linkage (linking two pieces of information together using multiple, possibly non-unique, keys)  
Other

**Please provide additional details  
and/or links about the methods  
you use**

## Further information

**Please provide any further  
information regarding your case  
study as text and/or links. For  
example, you could include links  
to published reports or papers,  
comments about open issues  
such as data access, or any  
other relevant information.**

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