3rd Global Conference on Big Data for Official Statistics

Big Data & The Prospects of The Russian Official Statistics

Georgy K. Oksenoyt
Deputy Head
Federal State Statistics Service (Rosstat)

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Rosstat vision

- Big Data - new promising data source for official statistics
- Official statistics system should keep in mind the Big Data phenomenon in its future work
- Fast approaching future
- In practice official statistics should consider limits existing
Major limits

- Level of development and application of IT-technologies in society
- Absence of social contract
- Absence of legal framework
- Lack of finance
- Limited human resources
Countries by the ICT Development Index in 2015
by score

- **South Korea**: 8.93
- **Japan**: 8.47
- **USA**: 8.19
- **Russia**: 6.91
- **Brazil**: 6.03
- **China**: 5.05
- **India**: 2.91

Federal State Statistics Service

International Telecommunication Union data
Mobile device users:

- 2014
- 2015

Frequent users:

- 2014
- 2015

Internet users by age groups

% of surveyed population

Federal Statistical Sample Survey Data, Questionnaire on usage of information technologies, information and telecommunication networks by population
Key application spheres

1st stage (2017-2020):

✓ Consumer price index (CPI)
✓ Demographic statistics (including Population census-2020)

Possibly:
✓ Tourism and Labour Migration statistics
Consumer price index (CPI)

Data Source – retailers (chains)
Application of retailers data on prices and food commodities sales volume for CPI calculation (at the 1st stage)

Interaction principles:
• Mutual interest – Rosstat receives data from retailers and provides them with CPI for traditional trade sector

Main challenges:
• Scope
• No unified goods’ coding standard
• Limited financial resources
Demographic statistics (including Russian population census-2020)

Data Source – mobile operators

Major tasks:
• Adjusting official statistics on a number of various population categories (for the specific date)
• Adjusting data on residential and non-residential premises as well as other places of residence and number of actual residents (for the specific date) while preparing Population Census

Interaction principles:
• Only commercial basis

Fundamental problems:
• Scope
• Limited financial resources
Tourism and Labour Migration statistics

Data Source – mobile network operators

Major tasks:

• Adjusting official statistics on cross-country and domestic (interregional) tourist and labour migration flows and its main characteristics
• Adjusting official statistics on business activities of service companies (hotels, restaurants etc.)
• Adjusting official statistics on employment

Interaction principles:

• Strictly commercial basis

Fundamental problems:

• Scope
• Limited financial resources
SO FAR

“NO MON – NO FUN”

BUT

NICE PROSPECTS!
Thank You!