



3<sup>rd</sup> Global Conference on Big Data for Official Statistics

## **Big Data & The Prospects of The Russian Official Statistics**

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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



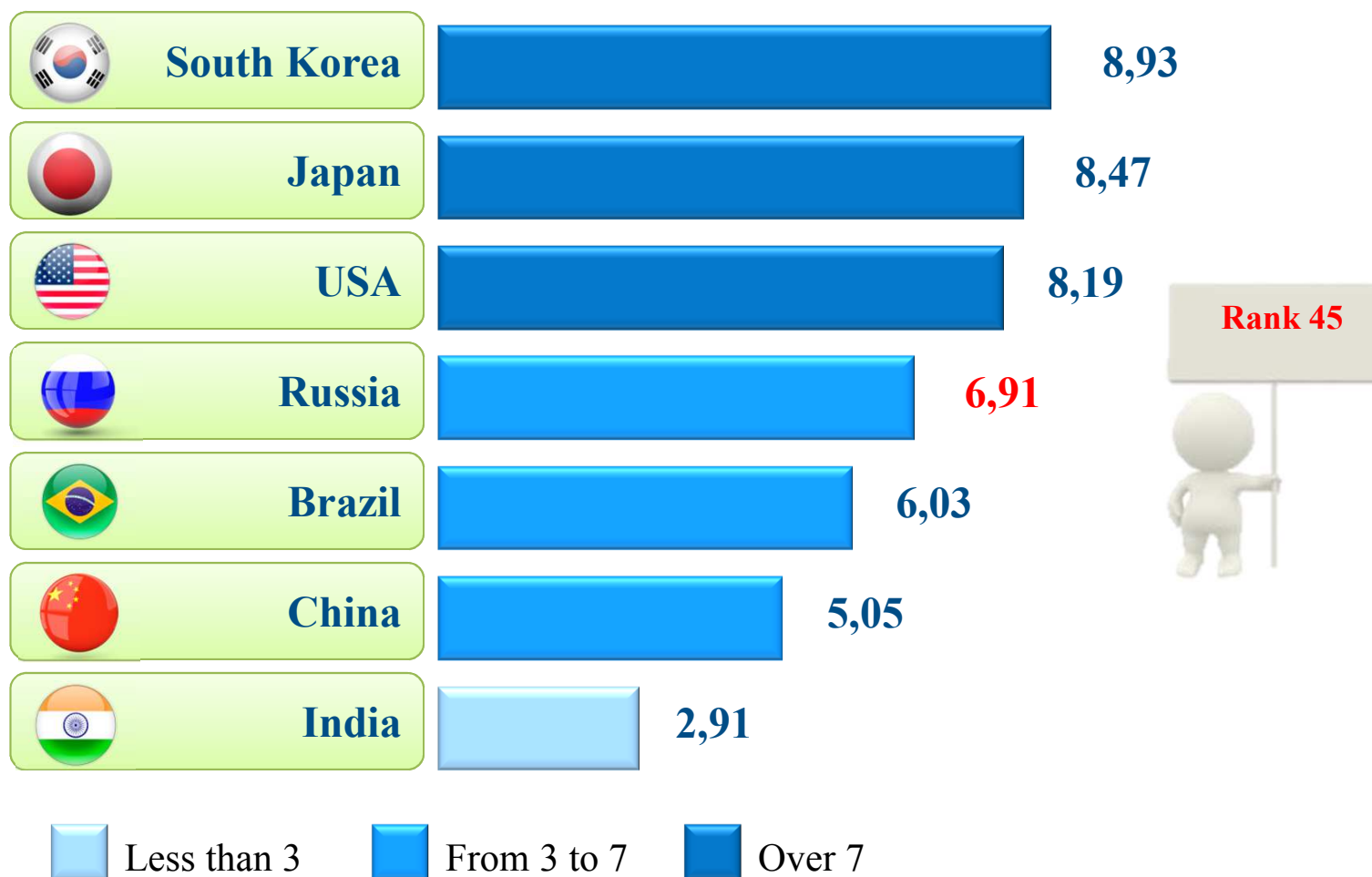
## Major limits

- 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*

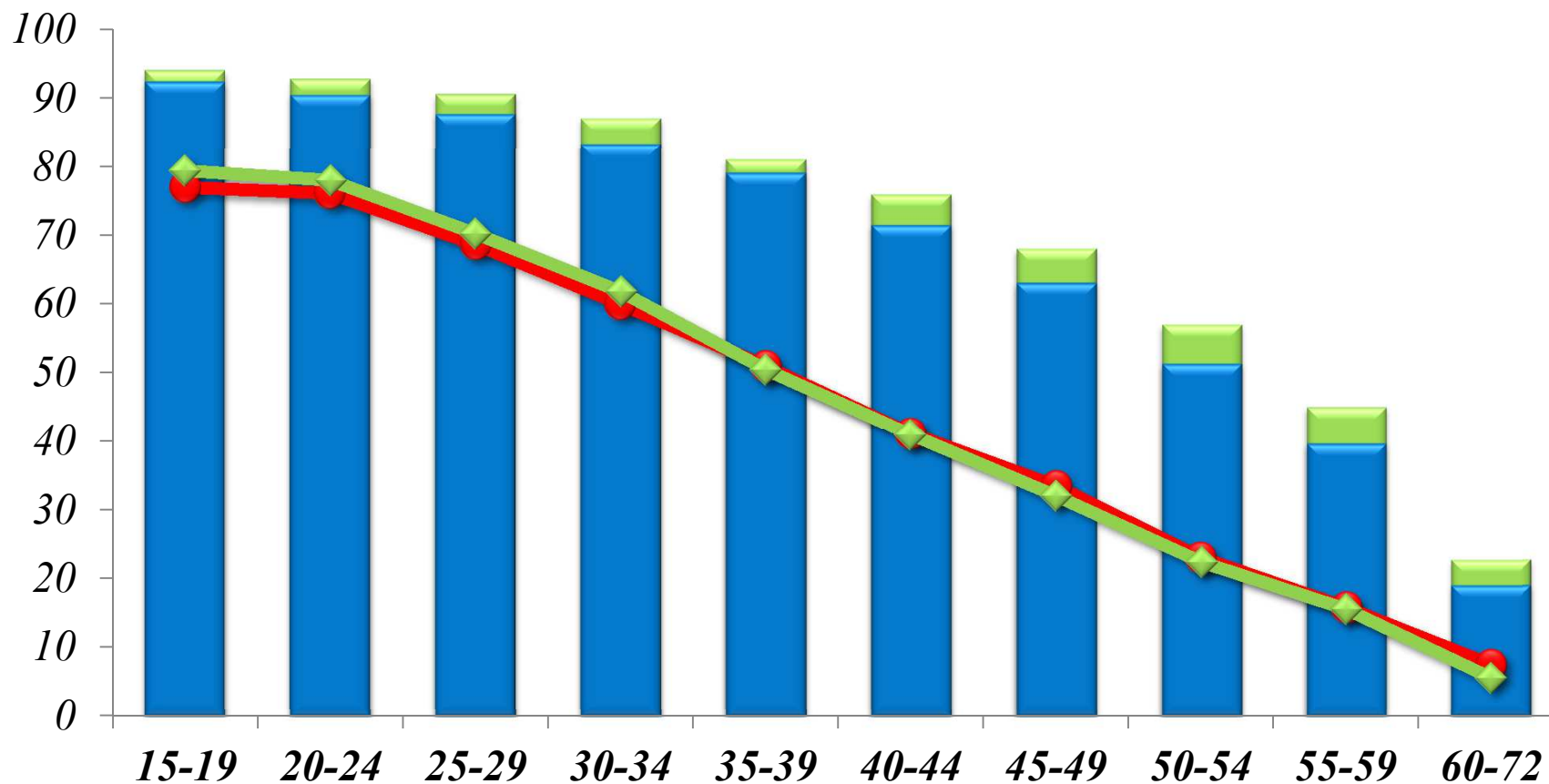


*International Telecommunication Union data*



## Internet users by age groups

*% of surveyed population*



Frequent users:

■ 2014    ■ 2015



Mobile device users:

■ 2014    ■ 2015



## Key application spheres

### 1<sup>st</sup> 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 1<sup>st</sup> 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!