



Federal State
Statistics Service

NEW DIGITAL DATA ECOSYSTEM IN RUSSIA

June 27, 2019



CURRENT ECOSYSTEM



■ FEDERAL STATISTICS

65 federal authorities

Over 2000 databases of federal authorities in more than 200 information systems

■ REGIONAL AND MUNICIPAL STATISTICS

85 regions

Over **20 000** municipalities

Numerous regional and municipal information systems

- ◆ **INCONSISTENT METHODOLOGY**
- ◆ **RESPONDENT BURDEN: OVER 100 QUESTIONNAIRES PER ENTERPRISE ANNUALLY**



CHALLENGES FOR OFFICIAL STATISTICS



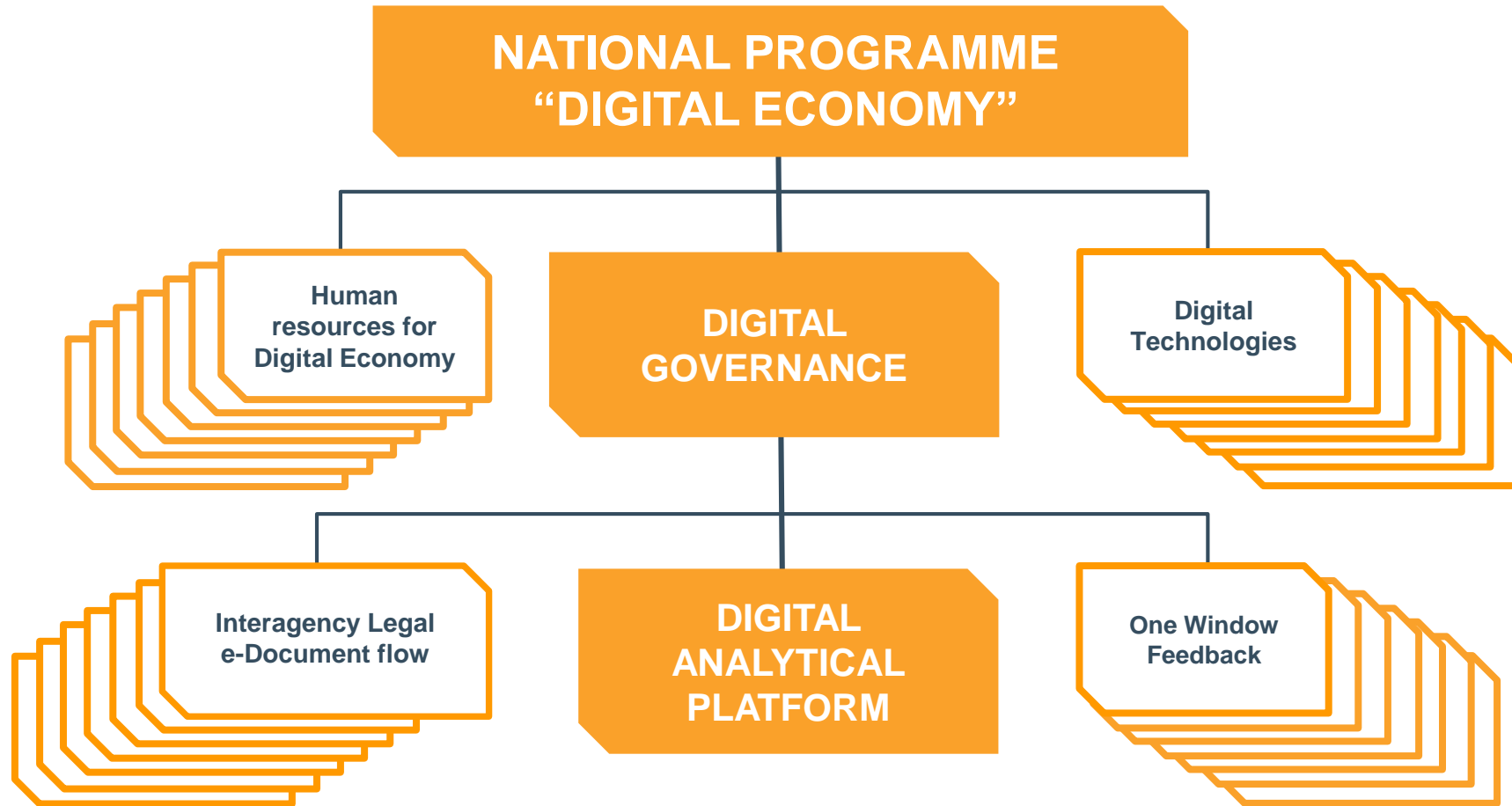
- ◆ Lack of statistical coordination
- ◆ Low transparency of planning, collection and processing

- ◆ High respondent burden
- ◆ Low quality of primary data
- ◆ Poor timeliness and granularity

- ◆ Numerous data producers outside official statistics
- ◆ Poor skills in using alternative data sources



DIGITAL AGENDA





DIGITAL ANALYTICAL PLATFORM



DIGITAL ANALYTICAL PLATFORM IS THE CENTRAL IT ELEMENT OF NATIONAL DIGITAL AGENDA



The goal is to make data collection easy for respondents and dissemination policy comfortable for users



Automatic data collection and reduction of reporting burden



Rosstat is the developer and the driving force of Digital Analytical Platform



DIGITAL ANALYTICAL PLATFORM (DAP)





DAP COMPONENTS DEVELOPMENT



● Smart System for Statistical Planning

● National Register of Respondents

- ◆ comprehensive warehouse of statistical units
- ◆ unified guidelines and toolkit for sampling

● National Register of Reporting Forms and Indicators

- ◆ automatic duplication control
- ◆ the right not to submit reports that are not included in the register

● National Statistical Warehouse

- ◆ unified standards and methodology
- ◆ integration with other information systems

● One Window Data Collection

- ◆ mandatory e-reporting
- ◆ standard rules for electronic collection

● DAP Analytical Tools (BI-component)

- ◆ Data Marts by users' requests
- ◆ API-access to the National Statistical Warehouse

● M2M Data Collection

● Unified Technology for Statistics Production

2020

2021

2022

2023

2024+



PLATFORM OPERATION



INSTITUTIONAL ARRANGEMENTS

- ◆ **High-Level Government Commission**
(coordination, decision making)
- ◆ **Resource and Competence Center**
(registers maintenance, analytics)
- ◆ **Methodological Council**
(expert examination of methodology)



ADMINISTRATIVE ACTIONS

- ◆ **National status of registers and systems**
(mandatory status; the right not to submit reports that are not included in the register; single toolkit for sampling)
- ◆ **One Decision Center for Methodology**
(development of methodology and standards, methodological control)
- ◆ **Mandatory e-Collection**
(legal basis for transition to e-Collection)



SMART STATISTICAL SYSTEM

HIGH-QUALITY & UP-TO-DATE STATISTICS

- ◆ Real time data
- ◆ Predictive analysis
- ◆ Transparent methodology
- ◆ Clear and understandable methodology and data
- ◆ Quick response to new challenges
- ◆ Microdata
- ◆ Artificial Intelligence

MINIMAL RESPONDENT BURDEN

- ◆ M2M Data Collection
- ◆ Unified System of Statistical Production
- ◆ Big Data as the major data source

