



On Digitalization of EAEU Statistics

II International Statistical Forum of the CIS: new technologies and data sources in statistics

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Discussion points

Digitalization of EAEU statistics within the framework of the Program for 2021-2025

Problems and their solutions

Results and prospects

Digitalization of EAEU statistics within the implementation of the Declaration until 2030



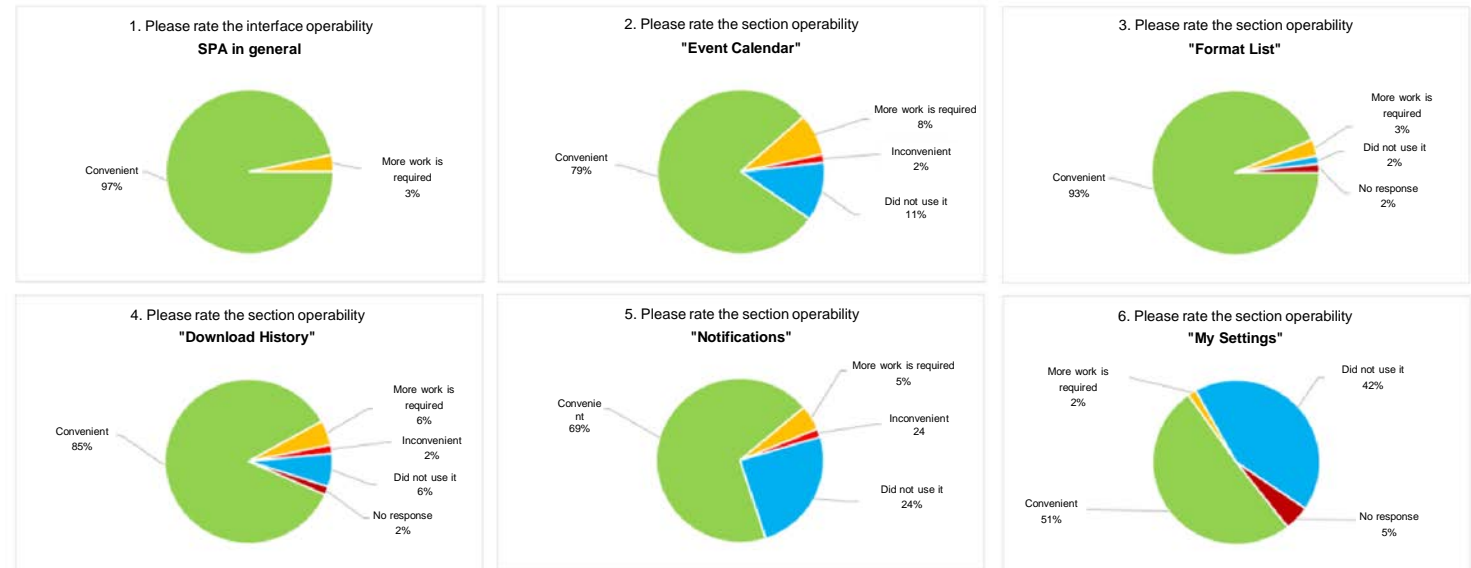


Initial conditions: Stats subsystem (SS) and statistician's personal account (SPA)

SS features

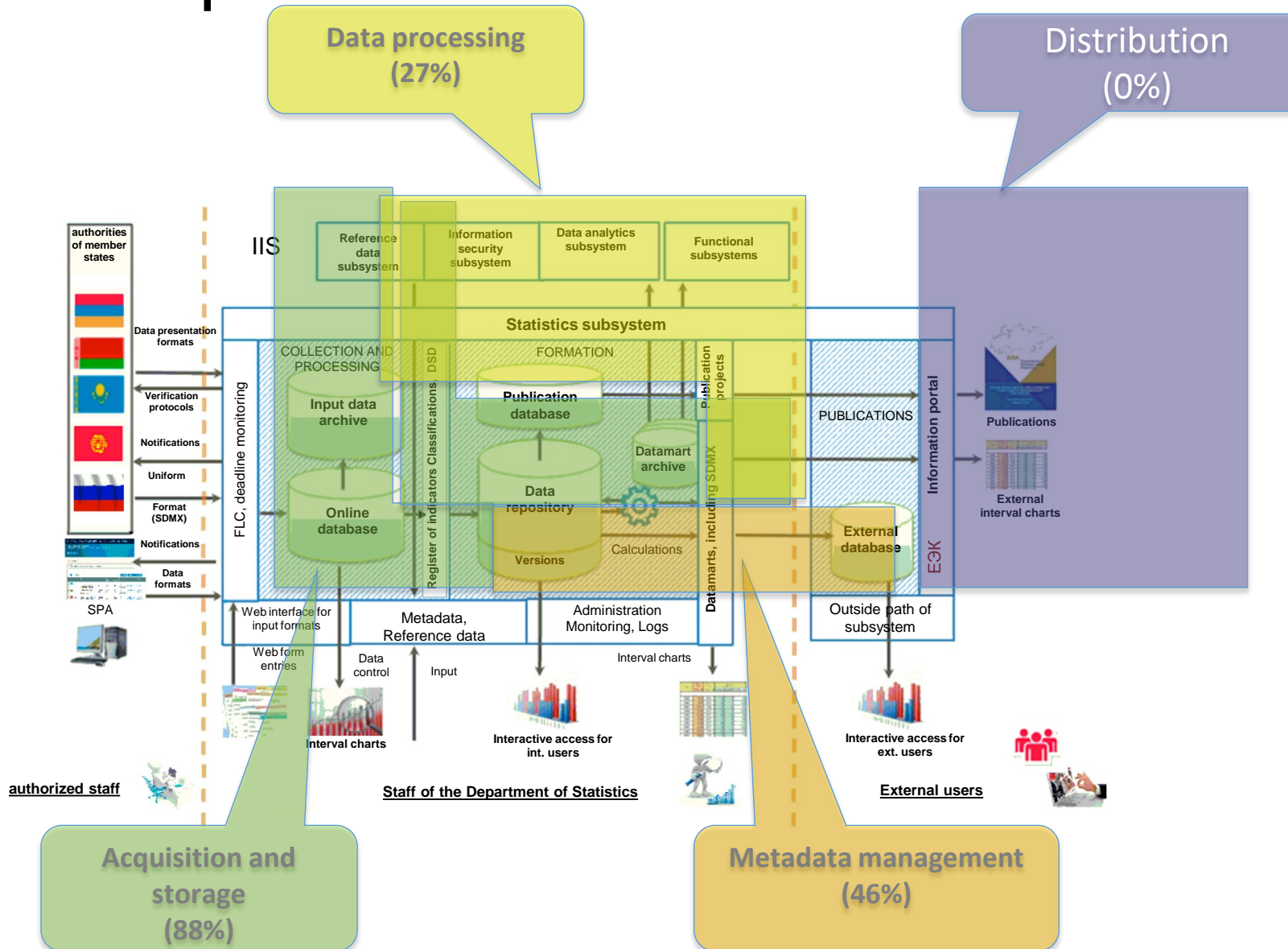
- Data loading;
- Analysis;
- Report generation;
- Metadata maintenance;
- Administration.

SPA utility survey results



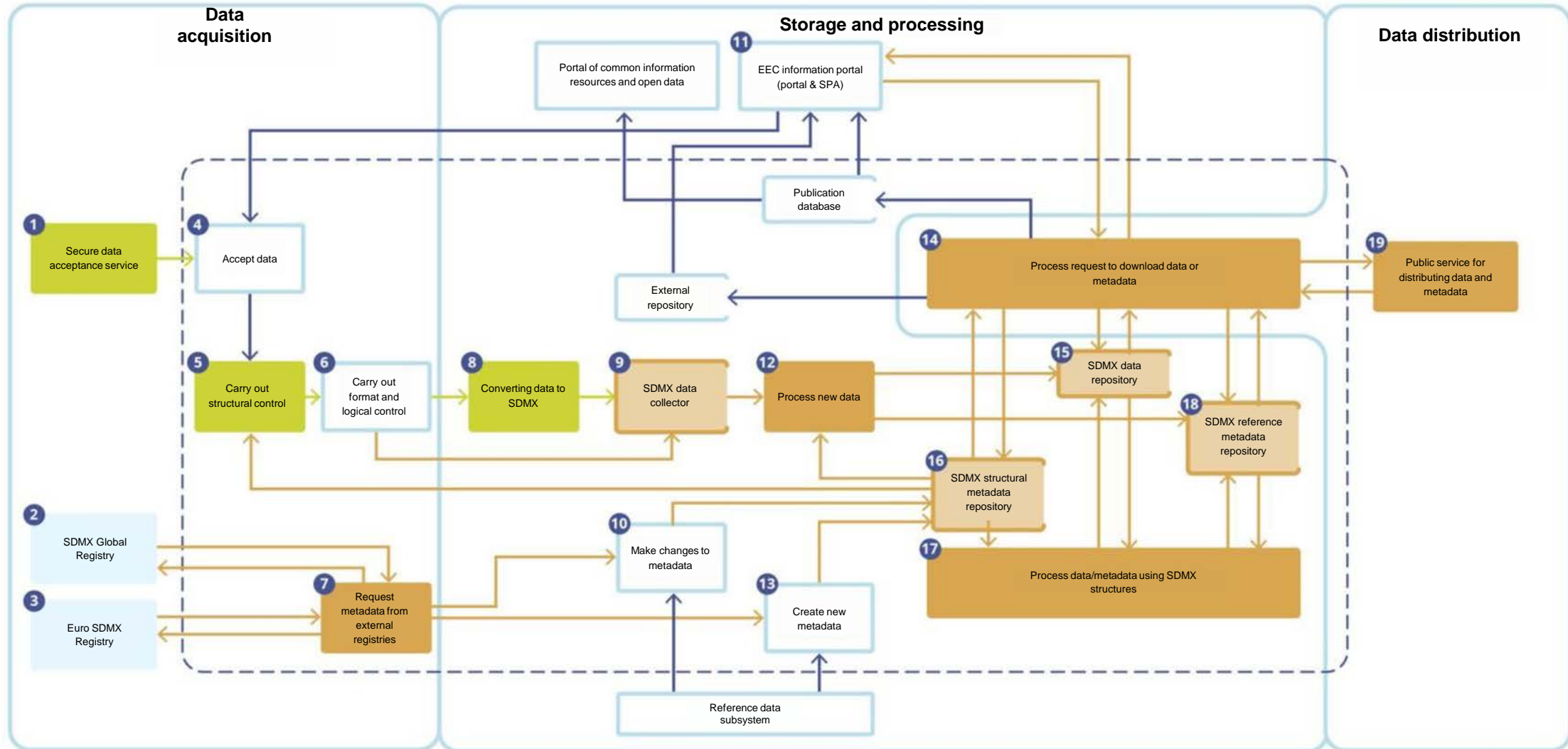


Implemented - green Not implemented - other colors





Modernized stats subsystem (MSS): SDMX data flow diagram





Tasks of the first stage of MSS

What needs to be done

- Reform the entire database, metadata and all processes
- Keep all data transfer formats in use
- Migrate data from SS to MSS
- Implement project with limited financial resources

Challenges

- Recoding from other formats to SDMX needed
- Total incompatibility of SS and MSS
- Funding does not yet exceed 50% of the need
- The SDMX standard is not intended for data analysis and processing



How we overcome it

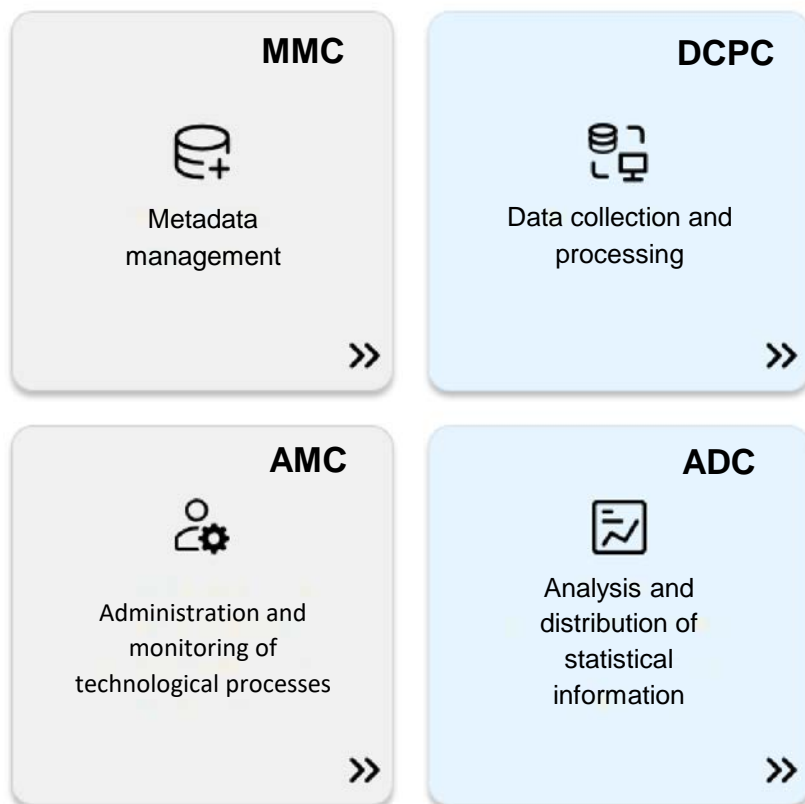
- Generation of questionnaires in MSS and automatic recoding to SDMX when loading data
- Migration of time series based on Data Flow
- Using open source software for SDMX and taking advice from international experts
- For data analysis – Russian BI platform Clustrum



First stage of works on MSS



Statistics subsystem



Based on the international software Stat Suite and the Russian software Clustrum, the main components of the MSS have been developed:

MMC – to manage metadata in accordance with SDMX

DCPC – to process and then convert incoming information according to the SDMX standard (implemented partially – without estimate indicators)

ADC – to analyse and distribute statistical information (implemented partially – without formation of statistical publications)

AMC – to administer and monitor technological processes (access control, action logs, etc.)



MSS testing and prospects

Done in MSS:

- 116 classifications loaded (including 55 from SDMX global registries)
- Created: 37 DSDs; 126 Data Flow
- 64, i.e. 27% collection forms generated; data loading tested for 53 collection forms
- Data migration completed using 6 Data Flows

Planned for 2025

- Integration of the MSS with the EAEU Portal in terms of the Eurasian SDMX registry, new SPA, datamarts
- Testing machine-to-machine data and metadata exchange



From SS modernization to digital ecosystem





THANK YOU

- Questions?
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