



**NATIONAL STATISTICAL COMMITTEE
OF THE REPUBLIC OF BELARUS**

Implementation of new data sources into the statistical production architecture

2-4 October 2024, Tashkent

Ala Bilenka

Head, Statistical System Coordination
and Development Department
National Statistical Committee
of the Republic of Belarus

Implementation of new data sources: application of alternative data sources

Data sources

Cashless payments



Social media



Product coding



GPS navigation



E-commerce



Electronic time management



E-health



Smart trackers



Booking hotels, tickets, taxis



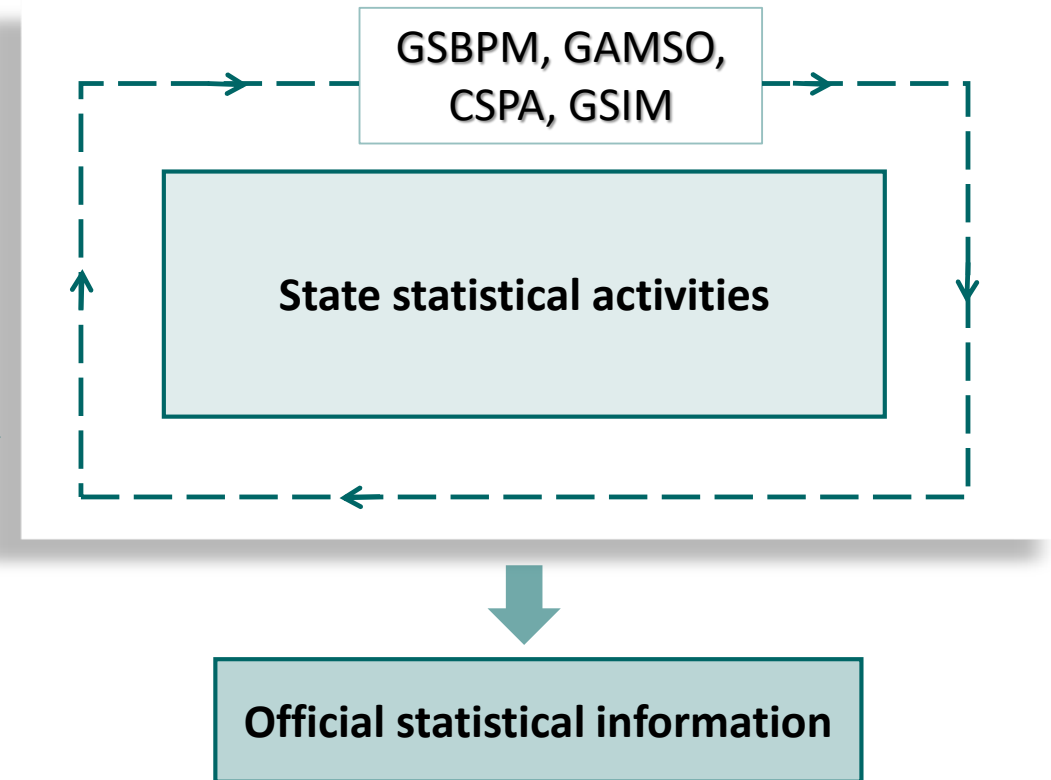
Smart home



Traffic control



Smart meters



Implementation of new data sources: national model of statistical production

Overarching processes: *quality management, metadata management, data management*

1. Specify needs	2. Design	3. Build	4. Collect	5. Process	6. Analyse	7. Disseminate	8. Evaluate
1.1. Identify needs	2.1. Identify variable composition	3.1. Reuse or build collection instruments	4.1. Create general population and sample	5.1. Integrate data	6.1. Prepare and validate draft outputs	7.1. Commission official statistical information dissemination systems	8.1. Gather evaluation inputs
1.2. Establish goal and objectives	2.2. Identify classifications and directories	3.2. Reuse or build processing and analysis instruments	4.2. Set up collection	5.2. Classify and code	6.2. Explain outputs	7.2. Prepare official statistical information for dissemination	8.2. Conduct evaluation
1.3. Check data availability	2.3. Design data collection	3.3. Reuse or build dissemination instruments	4.3. Run collection	5.3. Review and edit	6.3. Apply disclosure control	7.3. Manage dissemination of official statistical information	8.3. Plan improvements
1.4. Prepare and submit concept	2.4. Design general population and sampling methodology	3.4. Configure workflows	4.4. Finalise collection	5.4. Calculate weights	6.4. Finalise outputs	7.4. Promote official statistical information	
	2.5. Design methodology of data processing and analysis	3.5. Test statistical production system		5.5. Calculate aggregates		7.5. Manage user support	
	2.6. Design process of statistical production	3.6. Commission statistical production system		5.6. Finalise data files			



Implementation of new data sources: national model of statistical production

Overarching processes: *quality management, metadata management, data management*

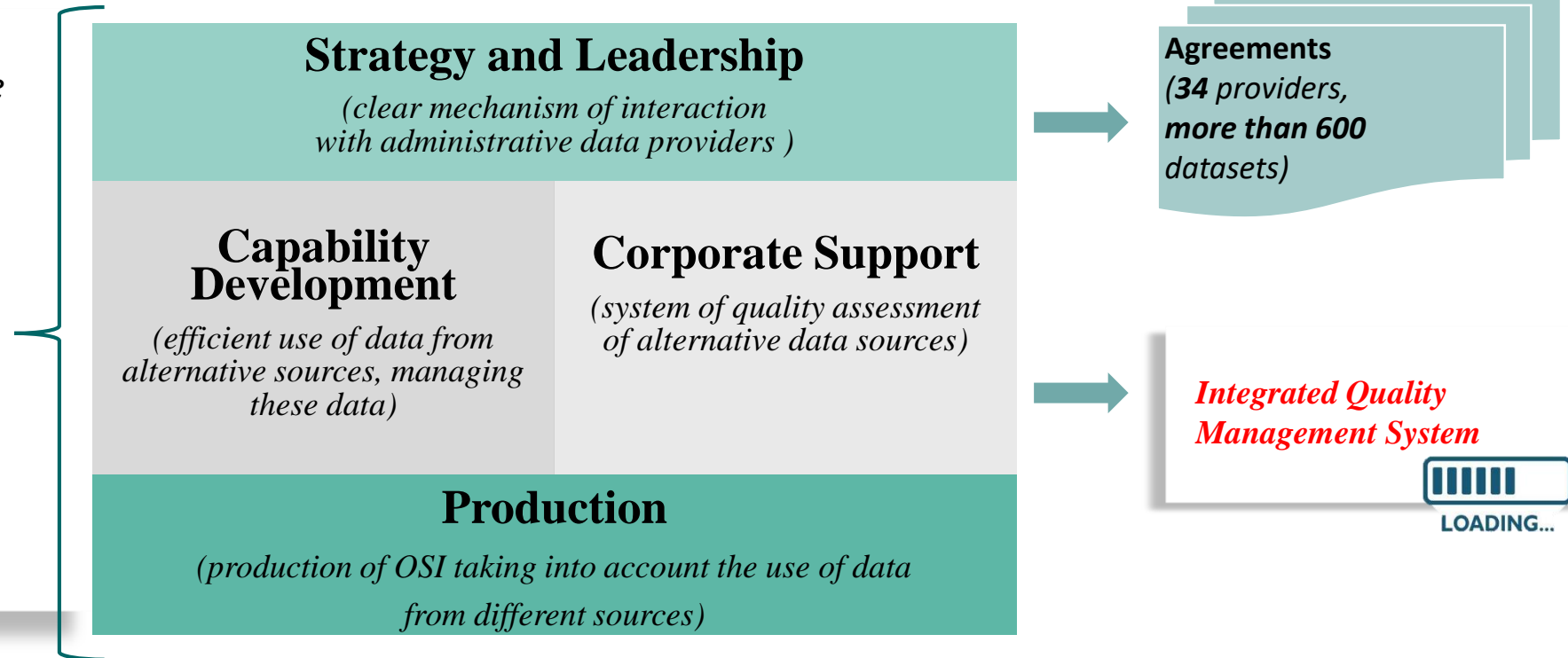


1. Specify needs	2. Design	3. Build	4. Collect	5. Process	6. Analyse	7. Disseminate	8. Evaluate
1.1. Identify needs	2.1. Identify variable composition	3.1. Reuse or build collection instruments	4.1. Create general population and sample	5.1. Integrate data	6.1. Prepare and validate draft outputs	7.1. Commission official statistical information dissemination systems	8.1. Gather evaluation inputs
1.2. Establish goal and objectives	2.2. Identify classifications and directories	3.2. Reuse or build processing and analysis instruments	4.2. Set up collection	5.2. Classify and code	6.2. Explain outputs	7.2. Prepare official statistical information for dissemination	8.2. Conduct evaluation
1.3. Check data availability	2.3. Design data collection	3.3. Reuse or build dissemination instruments	4.3. Run collection	5.3. Review and edit	6.3. Apply disclosure control	7.3. Manage dissemination of official statistical information	8.3. Plan improvements
1.4. Prepare and submit concept	2.4. Design general population and sampling methodology	3.4. Configure workflows	4.4. Finalise collection	5.4. Calculate weights	6.4. Finalise outputs	7.4. Promote official statistical information	
	2.5. Design methodology of data processing and analysis	3.5. Test statistical production system		5.5. Calculate aggregates		7.5. Manage user support	
	2.6. Design process of statistical production	3.6. Commission statistical production system		5.6. Finalise data files			



Implementation of new data sources: Generic Activity Model for Statistical Organisation (GAMSO)

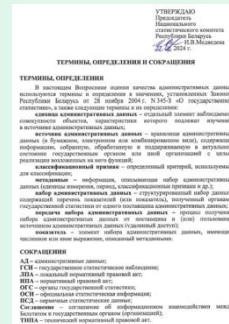
- **Regulatory framework** (*Law on State Statistics*)
- **Quality Management System** (*ISO 9001-2015*)
- **Inter-Agency Council on State Statistics**
- **Administrative data use policy**
- **meetings:** UNSC, CES
- **membership:** UNECE Task Force on Data Stewardship



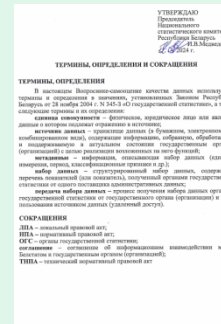
Implementation of new data sources: quality assessment of alternative data sources

Quality assessment of alternative data sources

Administrative data quality assessment questionnaire of state statistics bodies



Data quality self-assessment questionnaire



Initial data source assessment questionnaire



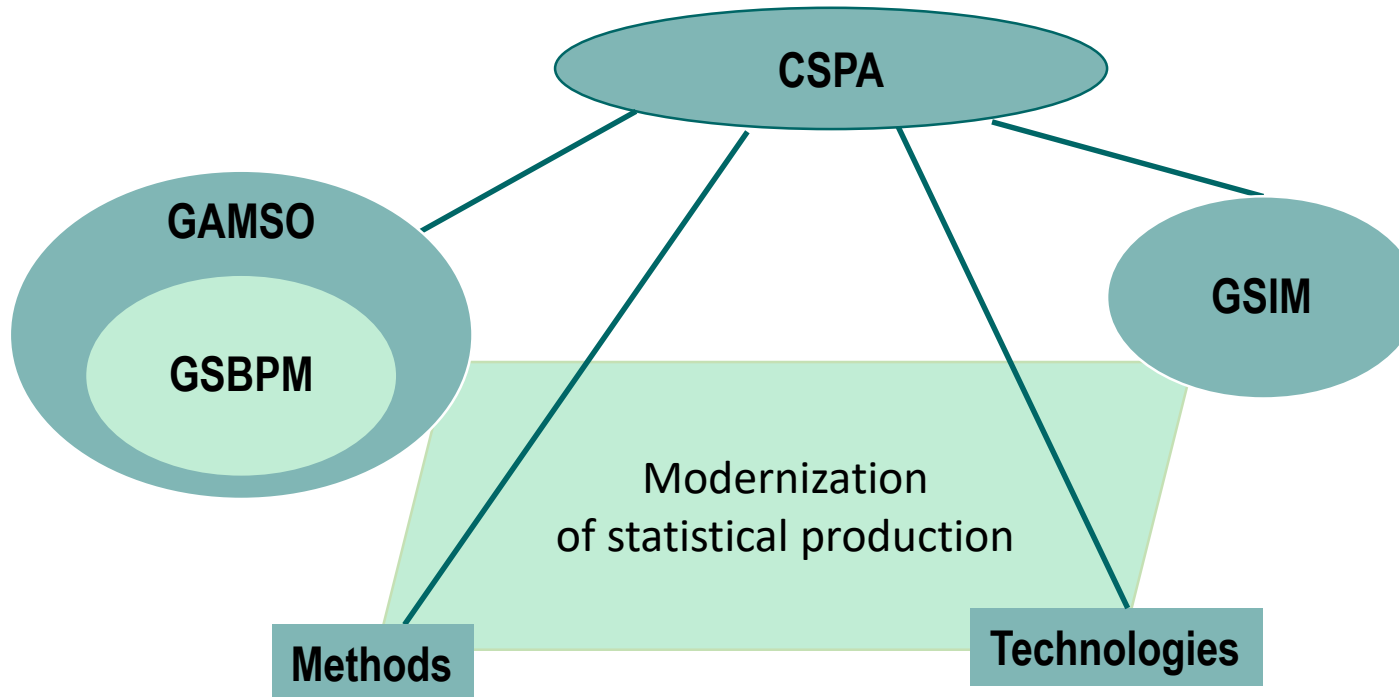
Methodological approaches to quality assessment of administrative data that include the system of quality assessment indicators



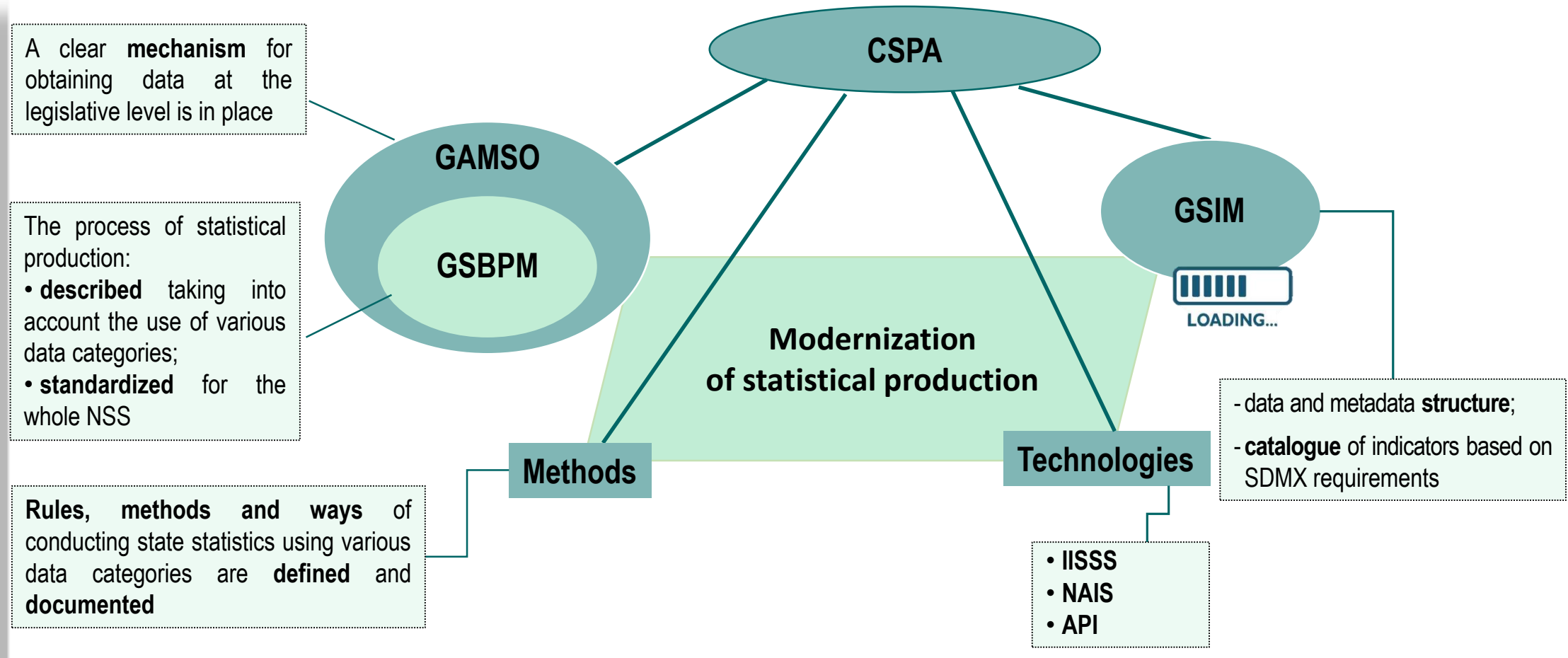
LOADING...



Implementation of new data sources: Common Statistical Production Architecture (CSPA)



Implementation of new data sources: statistical production architecture of the Republic of Belarus





THANK YOU FOR YOUR ATTENTION!



**NATIONAL STATISTICAL COMMITTEE
OF THE REPUBLIC OF BELARUS**

12 Prospekt Partizansky, 220070 Minsk, Belarus

+375 17 378 03 37

statplan@belstat.gov.by