

Approved by the order of the
Chairman of the Agency for
Strategic Planning and Reforms
of the Republic of Kazakhstan
dated March 14, 2023 21

ROADMAP
for the development of state statistics and the national data ecosystem for 2023-2025

Astana 2023

p/s no .	Name of the event	Responsible executor (co-executor)	Form of completion	Period of execution	Execution indicators	Official responsible for control of the state body/organization
1	2	3	4	5	6	7
Direction 1. Institutional and organizational transformations						
1.1	Improving the legal and methodological framework					
1.1.1	Adoption of the Law of the Republic of Kazakhstan "On the introduction of amendments and additions to certain legislative acts on state statistics and data management and " (<i>as part of a deputy's initiative</i>)	ASPR	Law of the Republic of Kazakhstan	31.1 2.2023	Law of the Republic of Kazakhstan	Chairman of ASPR RK Irgaliev A.A.
1.1.2	Development of new and amendments to existing RLAs in order to implement the Law "On Amendments and Additions to Certain Legislative Acts on State Statistics and Data Management and "	BNS ASPR	RLA	within two months after the adoption of the Law of the Republic of Kazakhstan	RLA	Head of BNS ASPR RK Shaimardanov Zh.N.
1.1.2.1	Inventory of by-laws in order to implement the norms of the Draft Law	ASPR	Registry of RLA	01.05.2023 __	RLA	Chairman of ASPR RK Irgaliev A.A.
1.1.2.2	Amendments to the Regulations of ASPR, including the definition by the authorized body for working	ASPR	Presidential Decree	within a month after the adoption of the Law of the	Regulations	Chairman of ASPR RK Irgaliev A.A.

p/s no .	Name of the event	Responsible executor (co-executor)	Form of completion	Period of execution	Execution indicators	Official responsible for control of the state body/organization
1	2	3	4	5	6	7
	with data			Republic of Kazakhstan		
1.2	Conducting an assessment of the national statistical system for compliance with international standards and joining the OECD Committee on Statistics and Statistical Policy					
1.2.1	Expert support of the ongoing reform of the national statistical system by UNECE in the framework of the 2023 Global Assessment	BNS ASPR	Report with recommendations from international experts	11/01/2023	report	Head of BNS ASPR RK Shaimardanov Zh.N.
1.2.2	Joining the OECD Committee on Statistics and Statistical Policy following the completion of a three-year in-depth review of the national statistical system by the OECD	BNS ASPR	Obtaining the status of a member of the OECD Committee	2023-2025	Status of "member" of the OECD committee	Head of BNS ASPR RK Shaimardanov Zh.N.
1.3	Ensuring the quality of primary statistical data collection					
1.3.1	Transition from traditional paper-based survey of respondents (households and businesses) to a computerized data collection system using digital solutions (CAPI, web surveys, GPS tracking)	BNS ASPR	Test report	31.12.2023	Data Acquisition System	Head of BNS ASPR RK Shaimardanov Zh.N.

p/s no .	Name of the event	Responsible executor (co-executor)	Form of completion	Period of execution	Execution indicators	Official responsible for control of the state body/organization
1	2	3	4	5	6	7
1.3.2	Unification of methodological approaches in the formation of statistical and administrative indicators: <i>- formation of a prototype of a unified catalog of indicators (2023);</i> <i>- analysis of the availability of methodology for the calculation of statistical and administrative indicators (2023);</i> <i>- development and approval of a unified methodology for calculating indicators (2024)</i>	BNS ASPR , CGB , LEB	Unification of the methodology for the formation of indicators in accordance with international standards	2023-2024	unified methodology	Head of BNS ASPR RK Shaimardanov Zh.N.
Direction 2 . Active use of administrative and alternative sources						
2.1	Development of digital statistical registers					
2.1.1	Implementation of digital statistical registers based on administrative data in order to reduce the reporting burden on respondents and increase the reliability of the generated statistical information: <i>- analysis of GDB and other</i>	BNS ASPR	Digital statistical registers	2023-2025	Digital statistical registers	Head of BNS ASPR RK Shaimardanov Zh.N.

p/s no .	Name of the event	Responsible executor (co-executor)	Form of completion	Period of execution	Execution indicators	Official responsible for control of the state body/organization
1	2	3	4	5	6	7
	<i>data sources;</i> <i>- development of digital statistical registers;</i> <i>- modernization of the information and analytical system "Taldau"</i>					
2.1.2	Modernization of the server infrastructure as part of the implementation of the e-Statistics 2.0 project: <i>- with server equipment;</i> <i>- DSS;</i> <i>- providing the necessary licensed software for databases</i>	BNS ASPR	Modernization of server infrastructure	2023-2025	Server hardware, data storage system	Head of BNS ASPR RK Shaimardanov Zh.N.
2.1.3	Integration of IIS "e-Statistics" with alternative sources : <i>- data of mobile operators;</i> <i>- data from space monitoring, remote sensing of the earth;</i> <i>- data of Internet platforms (aggregators/marketplaces)</i>	BNS ASPR	Alternative sources database	2023-2024	Data from alternative sources	Head of BNS ASPR RK Shaimardanov Zh.N.
2.1.4	Formation of statistical indicators based on alternative sources	BNS ASPR	Switching to alternative sources in	31.12.2025	Analytical cases	Head of BNS ASPR RK Shaimardanov Zh.N.

p/s no	Name of the event	Responsible executor (co-executor)	Form of completion	Period of execution	Execution indicators	Official responsible for control of the state body/organization
1	2	3	4	5	6	7
			statistical production			
2.1.5	Development of the digital service "National Reference Information" and its further support	BNS ASPR, MDDAI	RRI digital service	2023	RRI digital service	Head of BNS ASPR RK Shaimardanov Zh.N.
2.1.6	Ensuring information security: - <i>provision of vulnerability scanners;</i> - <i>coordination with the ISC MDDAI of the Republic of Kazakhstan for passing the IS compliance test, taking into account changes in the target architecture;</i> - <i>passing the test for compliance with information security requirements, taking into account changes in the target architecture;</i> - <i>OISC certification for the statistical industry</i>	BNS ASPR	PurchaseSoftware certification of IS	2023-2025	OISC certificate	Head of BNS ASPR RK Shaimardanov Zh.N.
2.1.7	Preparation of a combined agricultural census based on	BNS ASPR	Estimating costs for	31.12.2024	Results of the pilot census	Head of BNS ASPR RK Shaimardanov Zh.N.

p/s no .	Name of the event	Responsible executor (co-executor)	Form of completion	Period of execution	Execution indicators	Official responsible for control of the state body/organization
1	2	3	4	5	6	7
	the agricultural register : - <i>assessing the quality of the agricultural register and conducting a pilot project;</i> - <i>calculation of the cost of conducting a combined census</i>		conducting a register-based agricultural census			
2.1.8	Annual maintenance of IIS "e-Statistics" in order to ensure the uninterrupted formation of statistical information	BNS ASPR	Certificate of completion	2023-2025	Optimization of existing modules	Head of BNS ASPR RK Shaimardanov Zh.N.
2.2	Ensuring the quality of data from administrative sources					
2.2.1	Implementation of the institute of data controllers* with a centralized model under the coordination of the authorized body for determining the quality of data - the authorized body in the field of state statistics	BNS ASPR	Hiring and training of data controllers as part of the annual date audit of government databases	2023-2025	Institute of Data Controllers	Head of BNS ASPR RK Shaimardanov Zh.N.
2.2.2	Development of methodological requirements for conducting date audits : - <i>development of a methodology for assessing data quality - development of</i>	BNS ASPR	Regulatory requirements for conducting an audit date	07/01/2023	Methodology for assessing data quality	Head of BNS ASPR RK Shaimardanov Zh.N.

p/s no .	Name of the event	Responsible executor (co-executor)	Form of completion	Period of execution	Execution indicators	Official responsible for control of the state body/organization
1	2	3	4	5	6	7
	<i>a mechanism for conducting data audits of information systems and registers; - cross-control, expert advice</i>					
2.2.3	Conducting data quality checks in government information systems	BNS ASPR	Audit date	continuously since 2023	Audit date results	Head of BNS ASPR RK Shaimardanov Zh.N.
Direction 3. Strengthening the analytical capacity of all parties and increasing access to data						
3.1	Training and development of competencies of civil servants					
3.1.1	Training and development of civil servants' competencies: <i>- development of the own Data literacy program (development and production of educational material on the educational platform); - training of Bureau and ICC staff in descriptive data analysis based on BI tools and predictive analytics; - introduction of the DataLiteracy training program as a mandatory course for newly hired civil servants</i>	BNS ASPR	Training of civil servants on a regular basis	31.12.2023	Employee certification	Head of BNS ASPR RK Shaimardanov Zh.N.

p/s no .	Name of the event	Responsible executor (co-executor)	Form of completion	Period of execution	Execution indicators	Official responsible for control of the state body/organization
1	2	3	4	5	6	7
3.1.2	Formation of research competencies and technological practices: - <i>holding the annual QazDatathon competition;</i> - <i>maintaining a list of topics for joint research with higher educational institutions;</i> - <i>involvement of Bureau employees in research work;</i> - <i>an educational module for Higher educational institutions and the creation of a pool of teachers from among the staff of the Bureau</i>	BNS ASPR	Promoting a culture of data management, increasing the availability of statistical data in the scientific community	during a year	Educational module	Head of BNS ASPR RK Shaimardanov Zh.N.
3.2	Providing access to microdata for research and analytical solutions					
3.2.1	Implementation of an extended list of analytical solutions (cases) in order to unlock the potential of data and improve the quality of decisions made. <i>Approved cases for 2023:</i> - <i>inflation monitoring based on alternative data;</i>	BNS ASPR	Information and analytical products	2023-2025	Analytical cases	Head of BNS ASPR RK Shaimardanov Zh.N.

p/s no .	Name of the event	Responsible executor (co-executor)	Form of completion	Period of execution	Execution indicators	Official responsible for control of the state body/organization
1	2	3	4	5	6	7
	<ul style="list-style-type: none"> - development of an analytical map of the state of competition; - development of proposals for the introduction of alternative trackers of the state of the economy; - analysis of current conditions based on statistical data. 					
3.2.2	Providing access to microdata for the purpose of conducting research and implementing analytical solutions: <ul style="list-style-type: none"> - formation and placement of datasets on the Bureau's website; - development of a platform and software for the transfer of anonymized data 	BNS ASPR	Virtual data laboratory (online access)	2024-2025	Virtual data lab	Head of BNS ASPR RK Shaimardanov Zh.N.
3.2.3	Launch of a researcher's office to provide microdata for scientific and analytical purposes	BNS ASPR	Researcher's office (offline access)	31.12.2024	Researcher's office	Head of BNS ASPR RK Shaimardanov Zh.N.
3.3	Creation of conditions for data monetization					

p/s no	Name of the event	Responsible executor (co-executor)	Form of completion	Period of execution	Execution indicators	Official responsible for control of the state body/organization
1	2	3	4	5	6	7
3.3.1	Formation of the register of data providers	BNS ASPR	Registry	31.12.2024	registry	Head of BNS ASPR RK Shaimardanov Zh.N.
3.3.2	Creation of regulatory requirements for the launch of the Data Exchange	BNS ASPR	RLA	31.12.2024	RLA	Head of BNS ASPR RK Shaimardanov Zh.N.

Note:

* To conduct data audits of information systems as part of the clarification of the republican budget for 2023, funds were allocated to determine the status of the position of data stewards, training of data stewards, work regulations of date stewards according to the requirements, hiring date stewards in the ICC (minutes of the meeting of the Republican Budget Commission No. 5 of February 28, 2023), which were renamed at the suggestion of MDDAI in data controllers.

Note: Explanation of abbreviations:

CAPI (Computer Assisted Personal Interviewing) - computerized system of individual survey

GPS - (Global Positioning System) - global positioning system

ASPR - Agency for Strategic Planning and Reforms of the Republic of Kazakhstan

BNS ASPR - Bureau of National Statistics of the Agency for Strategic Planning and Reforms of the Republic of Kazakhstan

UNECE - United Nations Economic Commission for Europe

IS - Information Security

ICC - Republican State Enterprise on the right of economic management "Information and Computing Center of the Bureau of National Statistics of the Agency for Strategic Planning and Reforms of the Republic of Kazakhstan"

ISC MDDAI - Information Security Committee of the Ministry of Digital Development and Aerospace Industry of the Republic of Kazakhstan

LEB - Local Executive Bodies

MDDAI - Ministry of Digital Development and Aerospace Industry of the Republic of Kazakhstan

RLA – Regulations legal acts

OISC - Information Security Operations Center

OECD - Organization for Economic Cooperation and Development

Software - Software

RB - Republican budget

CGB - Central Government Agencies