

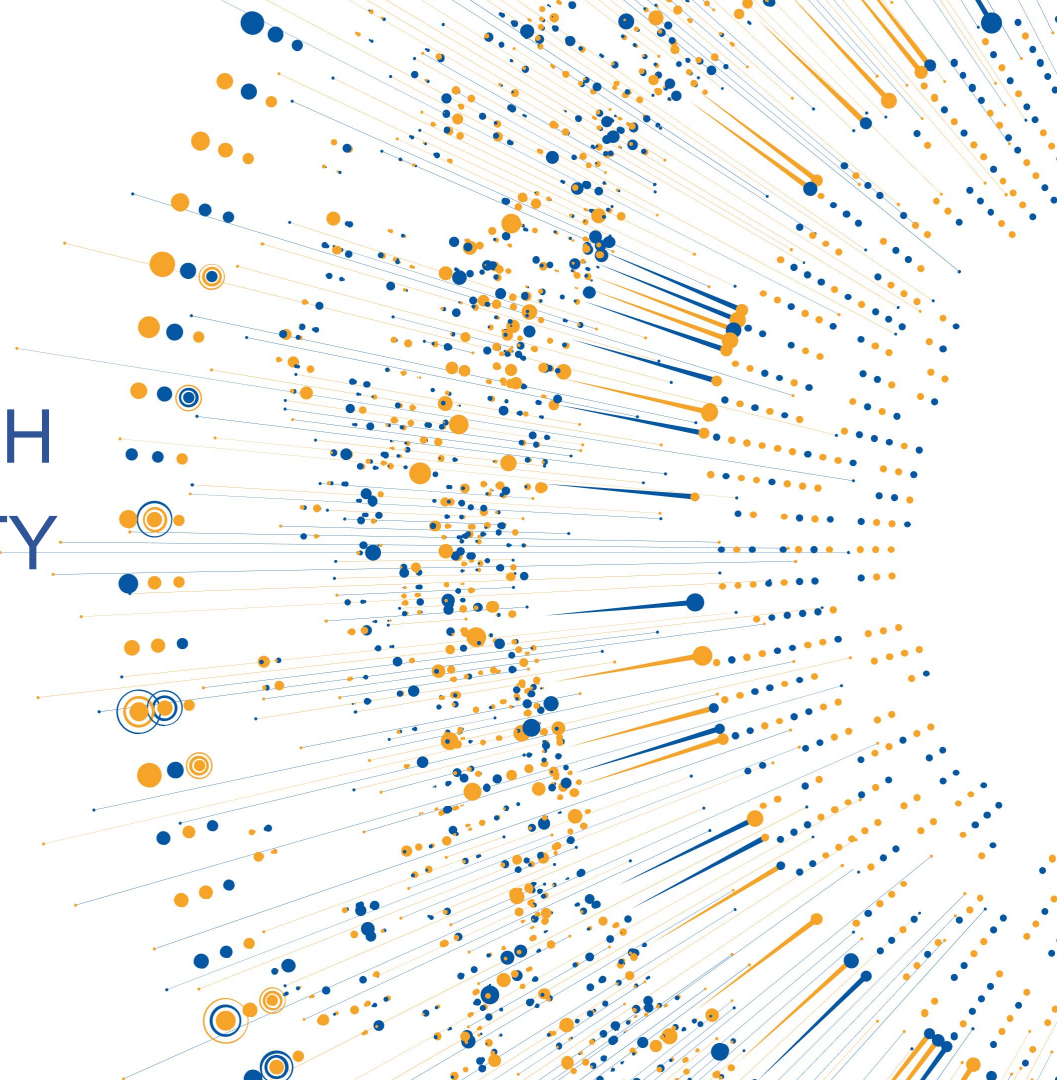


БЮРО НАЦИОНАЛЬНОЙ СТАТИСТИКИ
АГЕНТСТВА ПО СТРАТЕГИЧЕСКОМУ
ПЛАНИРОВАНИЮ И РЕФОРМАМ
РЕСПУБЛИКИ КАЗАХСТАН

COLLABORATION WITH THE DATA COMMUNITY

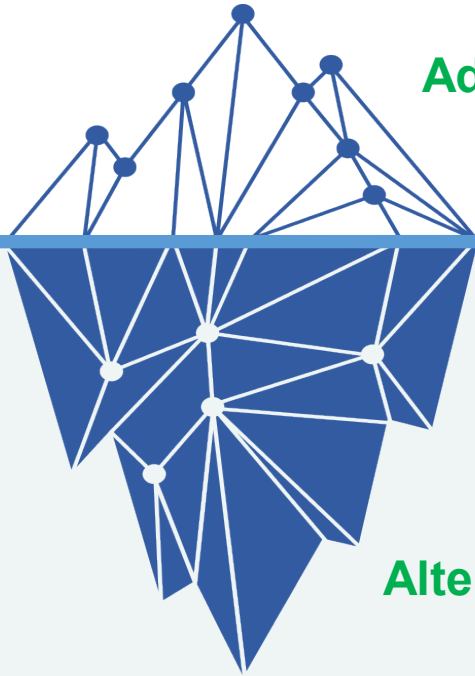
Kaliyev Farhat Manarbekovich – Director of the
Department of Data Quality Control and
Communications Development

Almaty, 2023



The national data ecosystem is not limited to government data only

Statistical data



Administrative data

Alternative sources

Government agencies are **slow to respond** to changing data user demands

The market for alternative data is emerging, but is still **not in demand by users**

New challenges and exponential data growth bring **new demands and opportunities** for statistical work



To implement the Concept, the Roadmap for reforming the BNS was approved:

1

Institutional and organizational transformations

2

Active use of administrative and alternative sources

3

Strengthening analytical capacity and expanding access to data



Published for **public discussion** in November 2022
Received **positive feedback** from experts

The reforms are being developed and implemented in stages, **taking into account the opinions of the expert community, users and respondents** in order to respect the interests of all stakeholders



Improving the legal and methodological framework

- **Draft Law** "On Amendments and Additions to Certain Legislative Acts on State Statistics and Data" is developed
- In implementation of the Draft Law, **new and amendments to the existing legal acts are being developed**



Assessment of the national statistical system for compliance with international standards and joining the OECD Committee

- **In March this year the work with international experts** within the framework of the Global Assessment of the National Statistical System 2023 started
- Initiated a three-year **in-depth review** of the national statistical system by the OECD (started in March this year) with further accession to the **OECD Committee** on Statistics and Statistical Policy



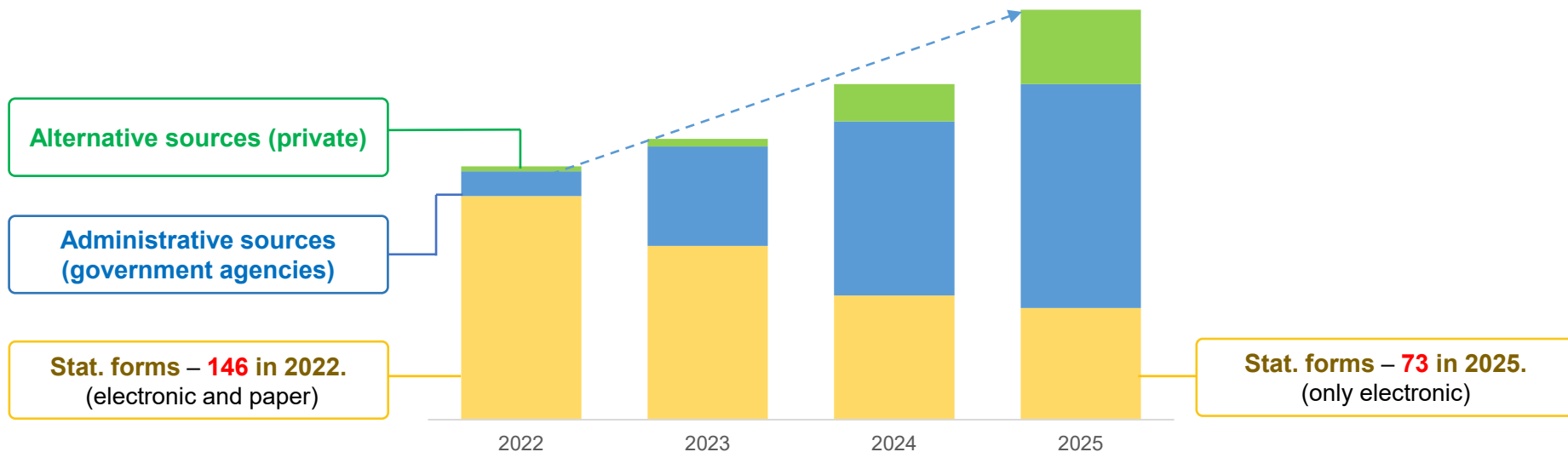
Ensuring the quality of primary statistical data collection

- **A shift** from traditional paper-based survey of respondents to a **computerized data collection system** using digital solutions (*tablets, web surveys, GPS tracking*) **is beginning to take place**
- **Unification of the methodology of indicators** of other government agencies with official statistical indicators



By the end of 2022, **18 forms** were reduced (from 146 to 128 in 2023)
Further transition to administrative and alternative sources is planned

Structure of sources for the formation of official statistics



The transition from traditional statistical reporting to new data sources (BigData) will reduce **the reporting burden**, while **increasing the completeness and quality of data**



Fiscal data operator



BNS



Consumer price index based on analysis of the **entire price range**

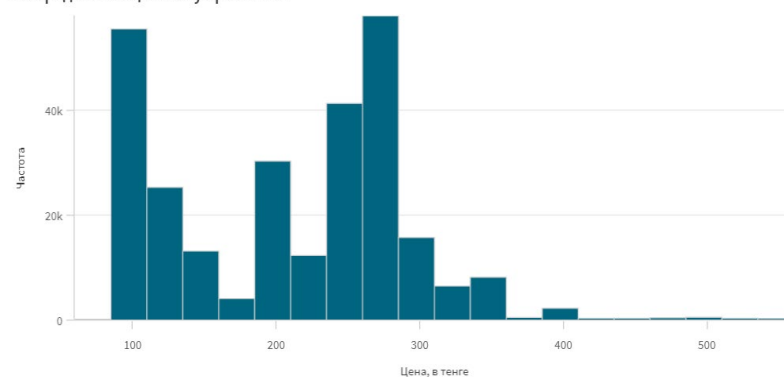
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Natural language processing (NLP)



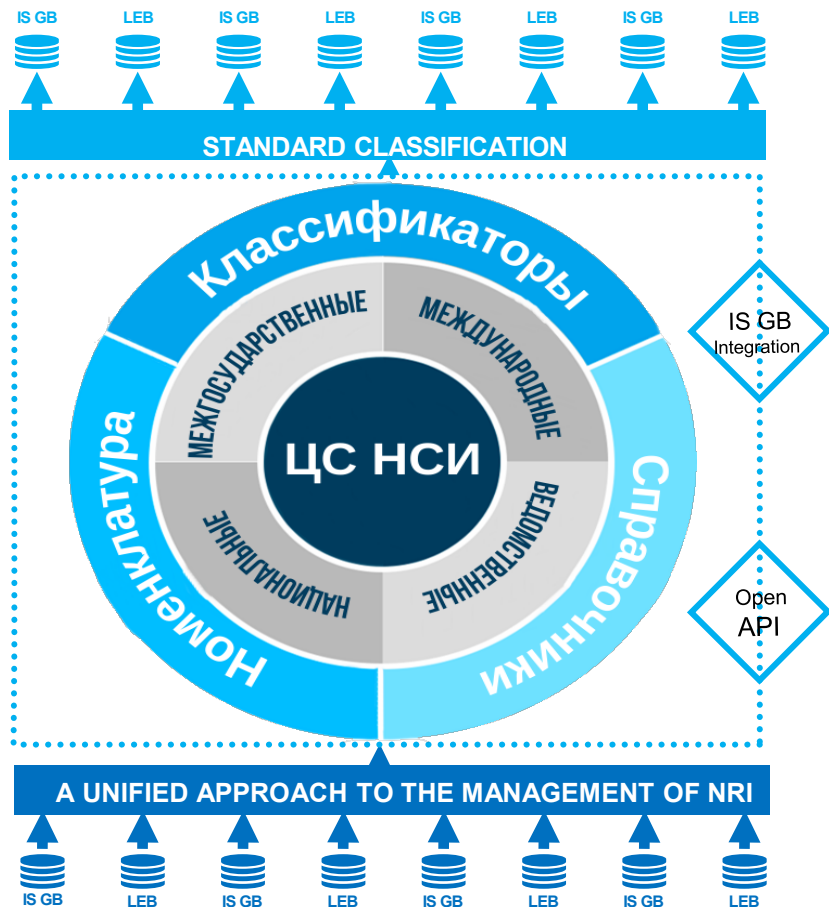
IMF methodological support

Распределение цен на лук репчатый



A complete transition to the new approach will be carried out **after validation of the models with the IMF**

As macro indicators worsen, **pressure on the BNS increases**. To **increase trust and eliminate interference** in official statistics, **new approaches to price monitoring** are being introduced



National Reference Information (NRI) is a unified system for creating, structuring and managing national reference information for all GB and LEB

- Providing a **single source of NRI** for IS GB and LEB;
- **Comparability** of GB and LEB data by using unified NRI;
- The ability to create **related solutions** based on harmonized reference books



Currently this service is **operating in test mode.**



Transition to digital statistical registers

- **Technical documentation** has been developed
- The structures of **150** databases of state bodies and more than **900** departmental reports have been studied
- By the end of the year is planned to introduce **3 new statistical registers**: agriculture, healthcare, education



The project will make it possible to switch to **register-based statistics**, reducing the **burden** on respondents and **improving the quality of data**



Interaction of BNS with the academic environment



A unique application module "Methodology and Analysis of Statistical Indicators" for universities was developed:

- implemented in the Kazakhstan branch of MSU
- planned to be implemented in other specialized HEIs



Qazdatathon national data competition:

- in 2022 conducted jointly with HEIs
- in 2023 conducted jointly with the corporate sector



Conducting collaborative research:

- a list of relevant topics for joint research with BNS staff has been published
- A joint program with universities is planned to build the capacity of young BNS personnel













Provision of anonymized microdata for studies



Increased access to anonymized microdata for accredited researchers::

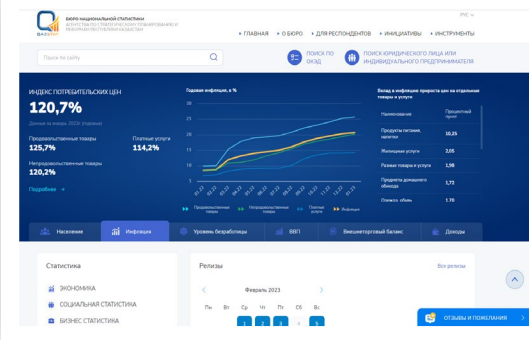
- Establishment of a researcher's office in the cities of Astana and Almaty to provide physical access
- Creating a virtual data laboratory to provide remote access in a secure environment

	<u>Status</u>	<u>Partners</u>
 <p>L1. Introduction to data and statistics</p> <ul style="list-style-type: none"> Videos on basic knowledge and data interpretation published A training department has been created (Competence Center) 	<p>✓ Videos published</p> 	 <p>UNDP</p>
 <p>L2. Methodology of statistical indicators</p> <ul style="list-style-type: none"> Video content is being produced to teach the methodology of key macroeconomic indicators 	<p>✓ During production launch before the end of this year</p>	 <p>KazNU</p>
 <p>L3. Descriptive data analysis</p> <ul style="list-style-type: none"> Training on data analysis and visualization on Qlik software was conducted 	<p>✓ Trained</p>  50 people.	 <p>ADB</p>
 <p>L4. Predictive analytics and data management</p> <ul style="list-style-type: none"> Provided training on data analytics to solve complex data-driven problems 	<p>✓ Trained</p>  30 people.	

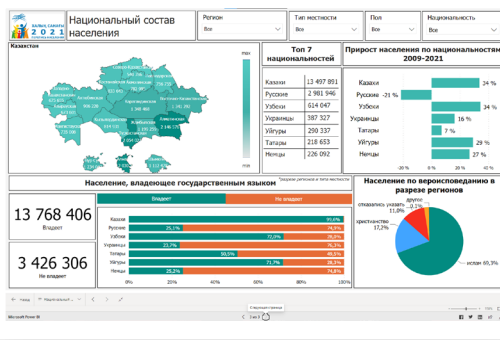
The **Data Literacy** program is implemented with funds from international organizations and is aimed at strengthening the analytical potential of **users and government officials**



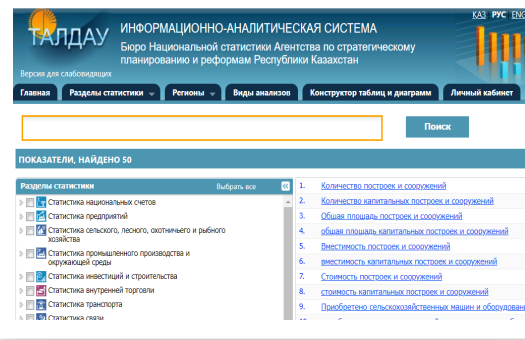
The main users of BNS resources: **respondents, inexperienced users, analysts and researchers.**
Appropriate tools are developed for each category



- ✓ **A new website of the Bureau** with quick access to key indicators and a new publication format



- ✓ **Interactive dashboards** on macroeconomic indicators
- ✓ They are becoming a **popular** tool according to web analytics



- ✓ Modification of the **Taldau IAS** to work with detailed data
- ✓ A key tool for **researchers**



Positive assessment of new tools from users was presented