

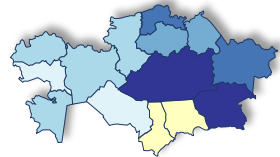
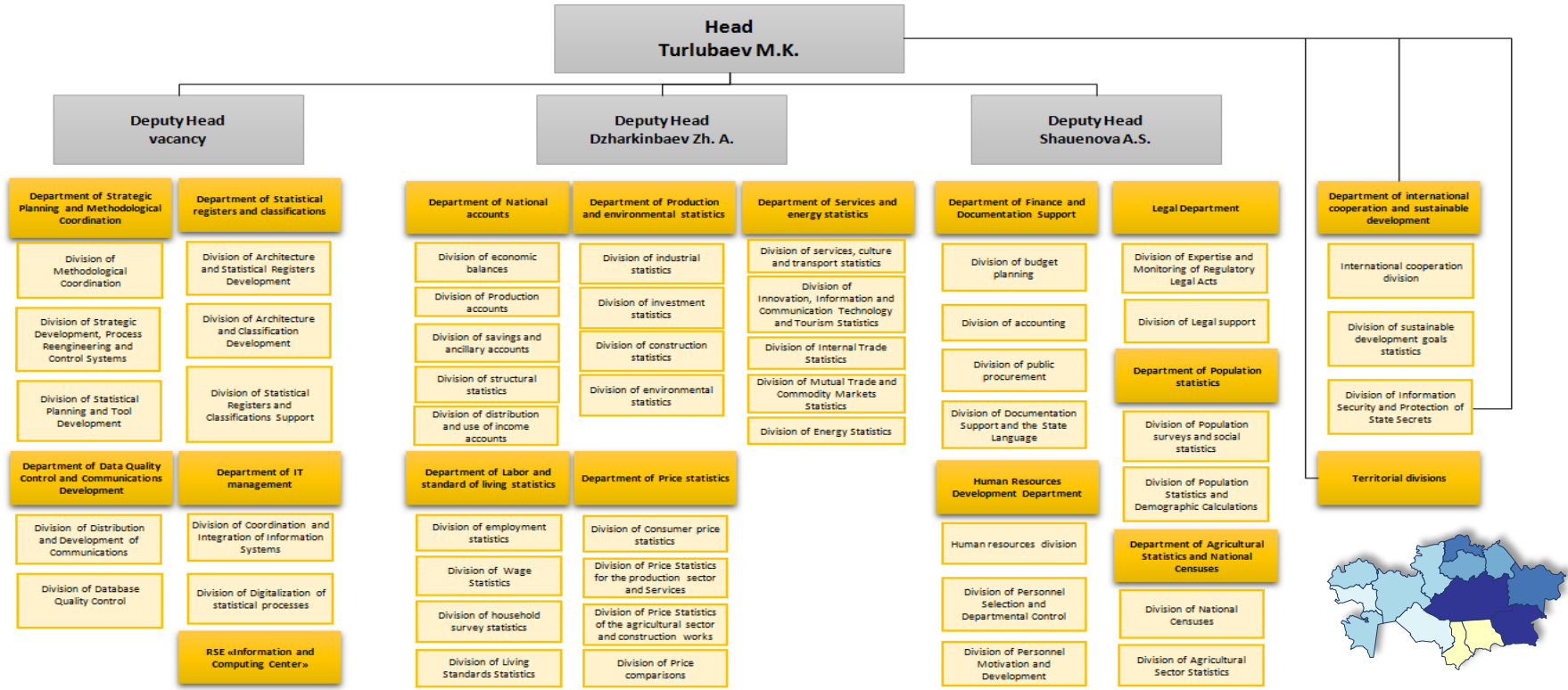
Agency for Strategic planning and reforms
of the Republic of Kazakhstan
Bureau of National statistics

Training and development of personnel potential of Bureau of National statistics

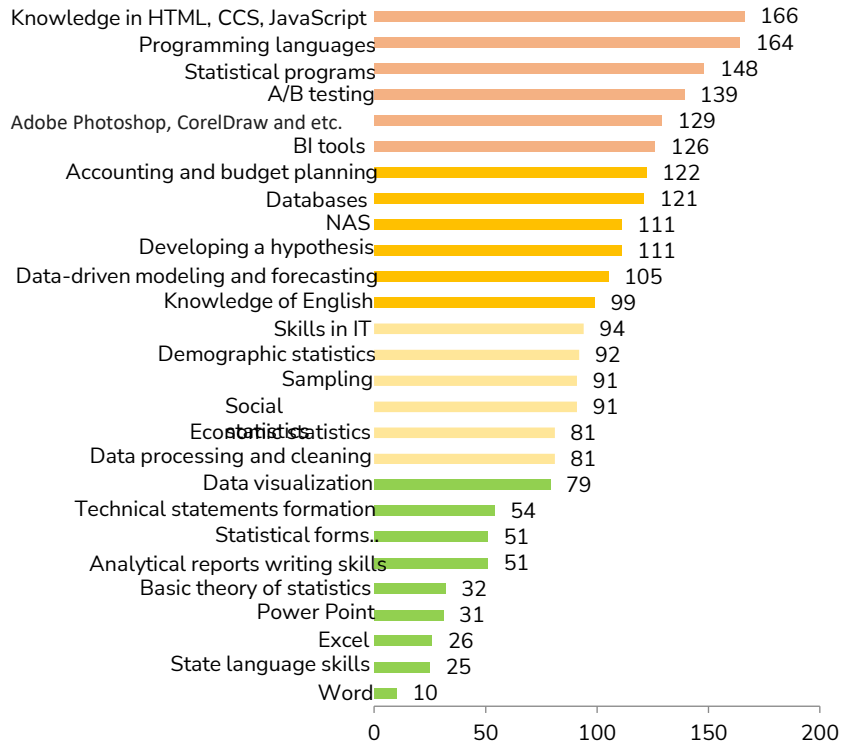
Gulmira Bexautova
Head of HR department

Organizational structure of the Bureau

Total staff number - **2385**



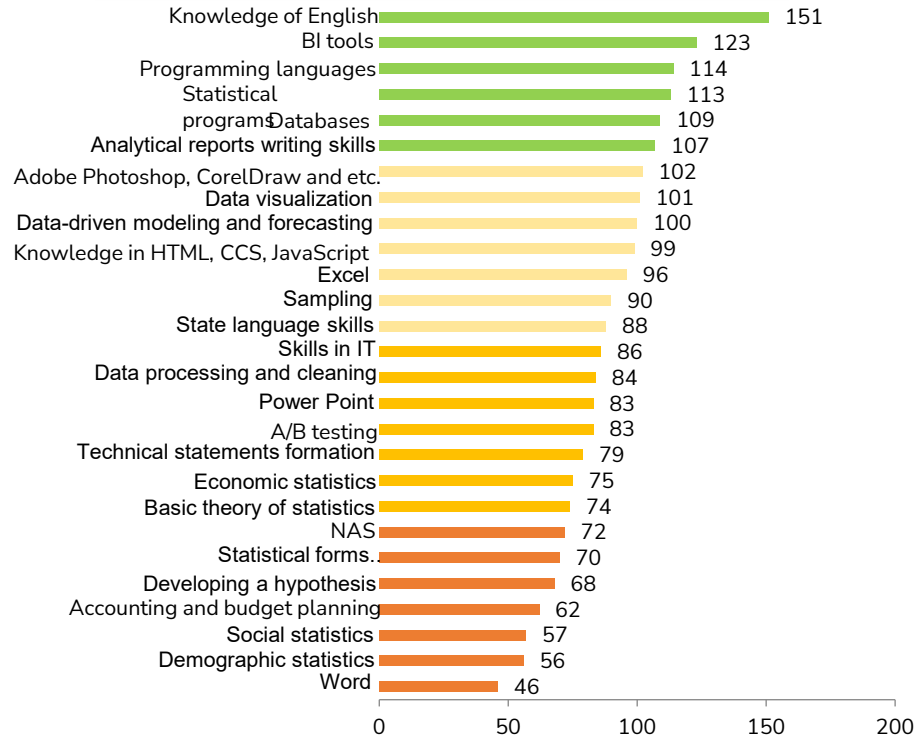
LOW COMPETENCE



FINDINGS


- **Technical skills** such as **programming, working with statistical programs and databases, working with BI tools**, as well as **knowledge of English** are the **weakest points** among employees
- There is a lack of competence in **working with graphic editors, the ability to conduct A/B testing, modeling and forecasting** based on data, and the **formation of hypotheses**
- A relatively small number of employees indicated low competence on **theoretical topics in statistics**
- The largest number of employees rated their competence as "high" in working with **office programs, the basics of statistical theory and knowledge of the state language**

HIGH NEEDS




FINDINGS


- **Programming and visualization skills using BI tools, working with statistical programs and databases**, as well as **knowledge of English** are the most popular topics to study among employees
- The interest in training on **writing analytical reports** was noted, despite the fact that there is an average level of competence in this area
- There is a need for **Excel training**, despite the fact that employees have sufficient competence in this office program, due to the fact that data processing is carried out in this program
- **Theoretical topics in statistics** are of the least interest in training

 English language training by C5+ONE program


- 47 employees completed

 Training in the course "Application development in Qlik sense"


- 54 employees completed

 The training plan for 2024

- 44 employees completed the open source courses based on the Training Plan for 2024

 Conducting intersectional seminars

- In-depth study of the methodology for collecting statistical indicators for all industries

 Formation of a Competence Center based on the Bureau

- Constant improvement of staff skills through systematic training (long life learning)

Partners



C5+ONE (Opening Networks Through English) Program



astana hub



The practice of **sustainable development** of employee competencies will be continued on an **ongoing basis**

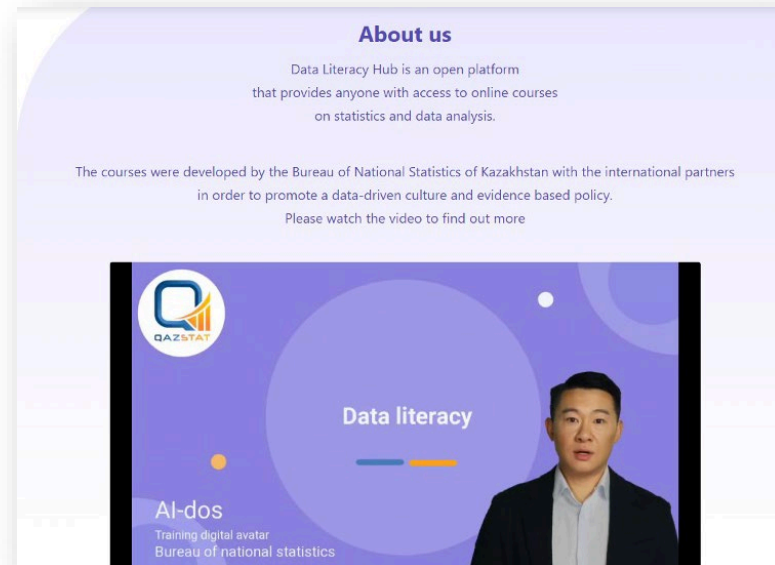
THE DATA LITERACY INITIATIVE



IMPROVING THE LITERACY OF CIVIL SERVANTS, THE GENERAL PUBLIC IN WORKING WITH DATA AND THE DEVELOPMENT OF PROFESSIONAL COMPETENCIES OF EMPLOYEES

The program is focused on:

- ✓ work with published data and interpretation;
- ✓ working with information sources;
- ✓ methodological issues in the main branches of statistics;
- ✓ data quality standards and the use of alternative sources of information



The Data Literacy program allows you to better understand statistics, forms a culture of decision-making based on data

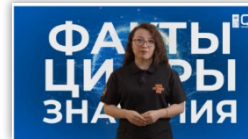
THE DATA LITERACY INITIATIVE

Level 1. Introduction to Data and statistics

- Videos on basic knowledge and data interpretation have been published

Status

- **Published** videos



Partners



UNDP

Level 2. Methodology of statistical indicators

- Production of video content on the application of data based on an approved statistical methodology

- **In the production process,** launch before the end of this year



KazNU

Level 3. Descriptive data analysis

- From November 2022 to April 2023, training was conducted in data analysis and visualization using the Qlik program

- **Completed** 50 employees



Level 4. Predictive analytics and data management

- From April to July 2023 training in data analytics was provided to solve complex problems based on data

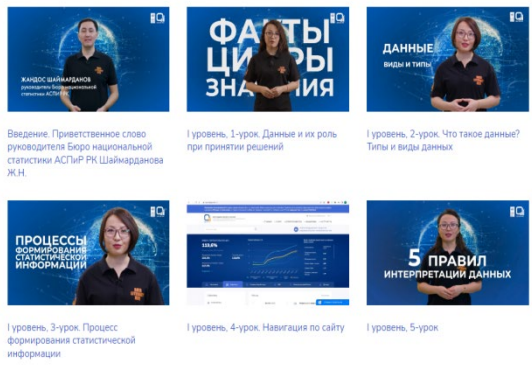
- **Completed** 30 employees



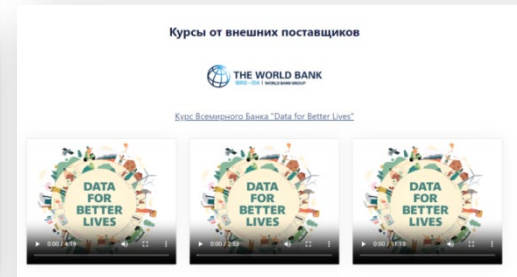
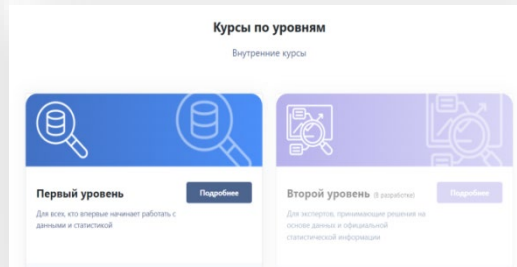
The Data Literacy program aims to strengthen the analytical capacity of **users** and **government officials**

An open learning platform has been created

dataliteracyhub.stat.gov.kz



The platform provides access to online courses in the field of statistics and data analysis



- ✓ A joint “Modular course for civil servants” has been developed with the World Bank
- ✓ The modular course was developed in Kazakh and translated into Russian, English, Kyrgyz, Tajik, Uzbek languages
- ✓ 30 civil servants from Kazakhstan completed the course
- ✓ It is also planned to train civil servants from Kyrgyzstan, Tajikistan and Uzbekistan, 30 people from each country



DEVELOPMENT OF HUMAN RESOURCES in the in the field of statistics and the INVOLVEMENT of employees in RESEARCH ACTIVITIES, as well as the POPULARIZATION of the use of statistical data

- In 2022, 2 memorandums were concluded

- Kazakhstani branch of MSU
- AITU

- Developed and adapted the Bureau's practical module into MSU's educational program in the Economics major
- 1st place at the International Student Olympiad on Statistics of the CIS Statistical Committee (Kazakhstan branch of MSU)
- A course on Project Management was conducted by Bureau's employees

- In 2023, 6 memorandums were concluded

- APA under the President of the RK
- KazATU
- KarU
- Narxoz
- KIMEP
- KazNU

- The undergraduate program “Mathematical Economics, Statistics and Data Analysis” was launched (KarU)
- The 1st level of the Bureau's Data Literacy has been introduced into the program of advanced training of civil servants (APA)
- Practical internship at Bureau and RSE ICC
- Guest lectures

- In 2024, a master's program

- Kazakhstani branch of MSU

- Joint Master's degree program “Statistics and Data Management in Modern Economics” was launched



The Bureau is **open to cooperate** with universities and students both in terms of **research** and **internships** and **traineeships**

Bureau's practical module

Methodology
and analysis of
statistical
indicators

- 1 OFFICIAL STATISTICS OVERVIEW
- 2 GDP METHODOLOGY AND ANALYSIS
- 3 ANALYSIS OF THE DEVELOPMENT OF BASIC ECONOMIC SECTORS
- 4 INFLATION AND PRICE INDEXES
- 5 EMPLOYMENT AND WAGES
- 6 HOUSEHOLD INCOME AND EXPENDITURES
- 7 DEMOGRAPHICS AND MIGRATION
- 8 SUSTAINABLE DEVELOPMENT GOALS

9 OUTCOMES -
ANALYSIS AND
DISCUSSION

Completed - 57 people

Duration - 16 weeks

Course volume - 64 academic hours
(21 lectures - 42 hours, 11 seminars - 22 hours)

Weekly load - 4 academic hours

According to the results of the module, a test was conducted in the form of a test



TO TEACH HOW TO CORRECTLY INTERPRET AND APPLY STATISTICAL INDICATORS

Standard course in statistics

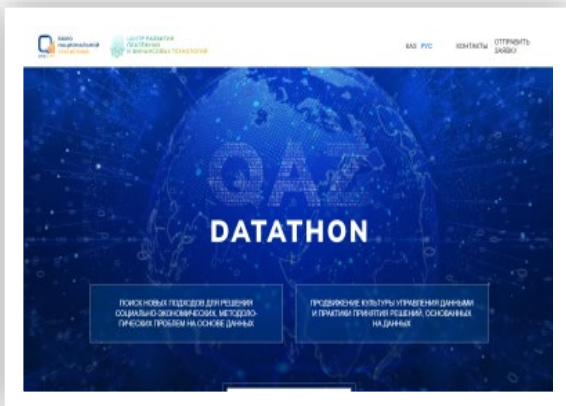
- ✓ Considers **statistics** as a branch of **academic knowledge and science**
- ✓ It is based on the **theory** and **concepts** of **statistics**
- ✓ Explains the approaches of **descriptive** and **inductive** statistics, statistical **methods**
- ✓ Focuses on the **mathematical foundation** of **applied statistics**

Methodology and analysis of statistical indicators

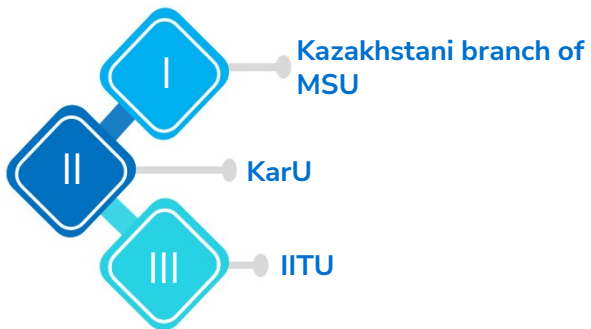
- ✓ It is taught by **the staff of the Bureau**, who produce official statistics
- ✓ It is based on **real cases** of the formation and application of statistics
- ✓ Clarifies the **sources** and **limitations** of statistical indicators, their **correct interpretation**
- ✓ Focuses on skills in **applying** and **calculating** derivative indicators



University programs are mainly focused on the theory and concepts of statistics as part of science, while the production and practical application of official statistics is not sufficiently disclosed



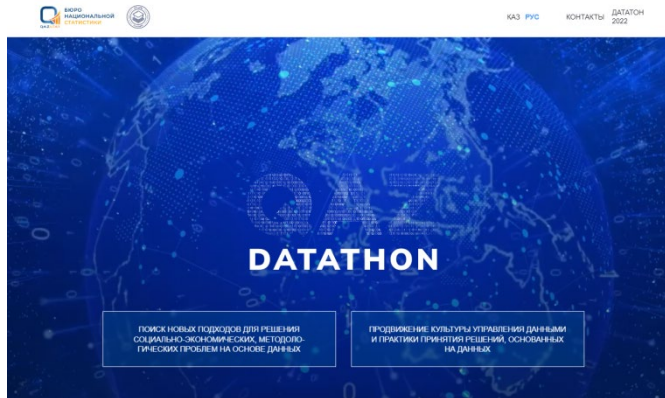
<https://datathon.kz/#/2022>



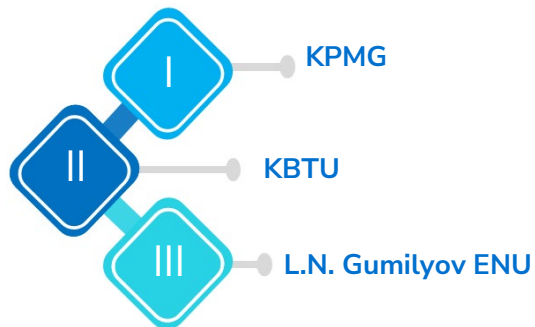
Qazdatathon – is a competition of data projects in order to find new approaches to solve socio-economic, methodological problems on the basis of data, as well as to promote the culture of data management



Winners of the QAZDATATHON 2022

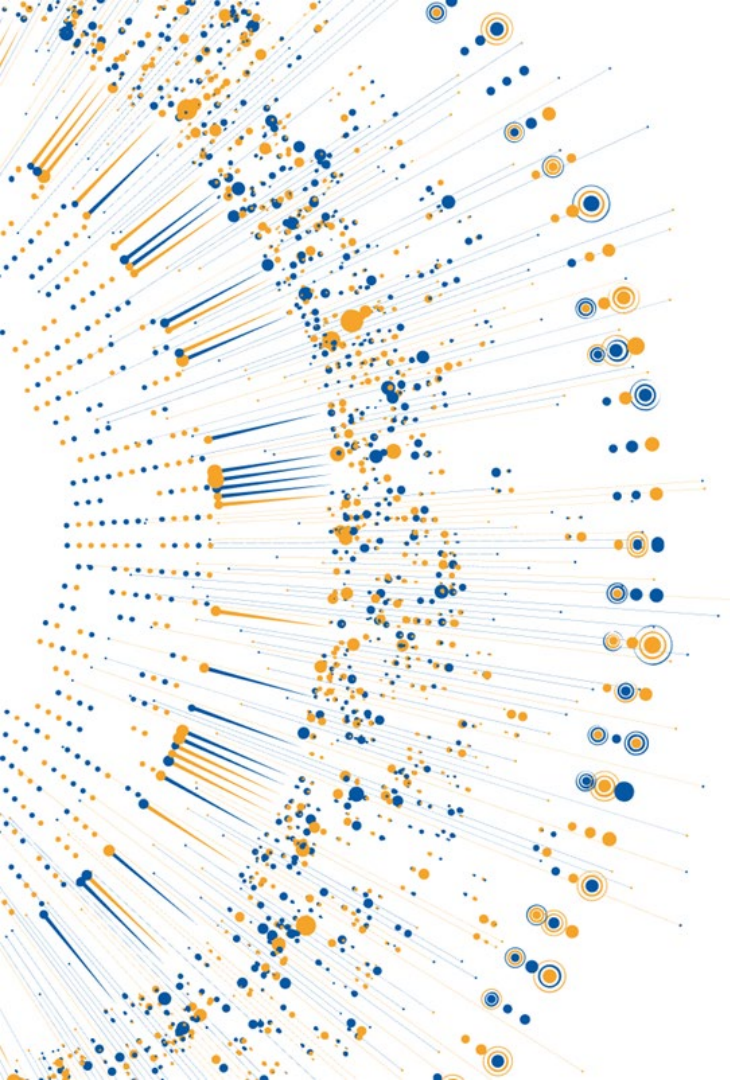


<https://datathon.kz/#/>



Qazdatathon - in 2023, the competition was held for a wide range of participants





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Thank you!

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