

# Almaty – On the Way to Resilient and Low-Carbon Cities



June 2024



GRP  
\$ **69** billion USD  
(2023)

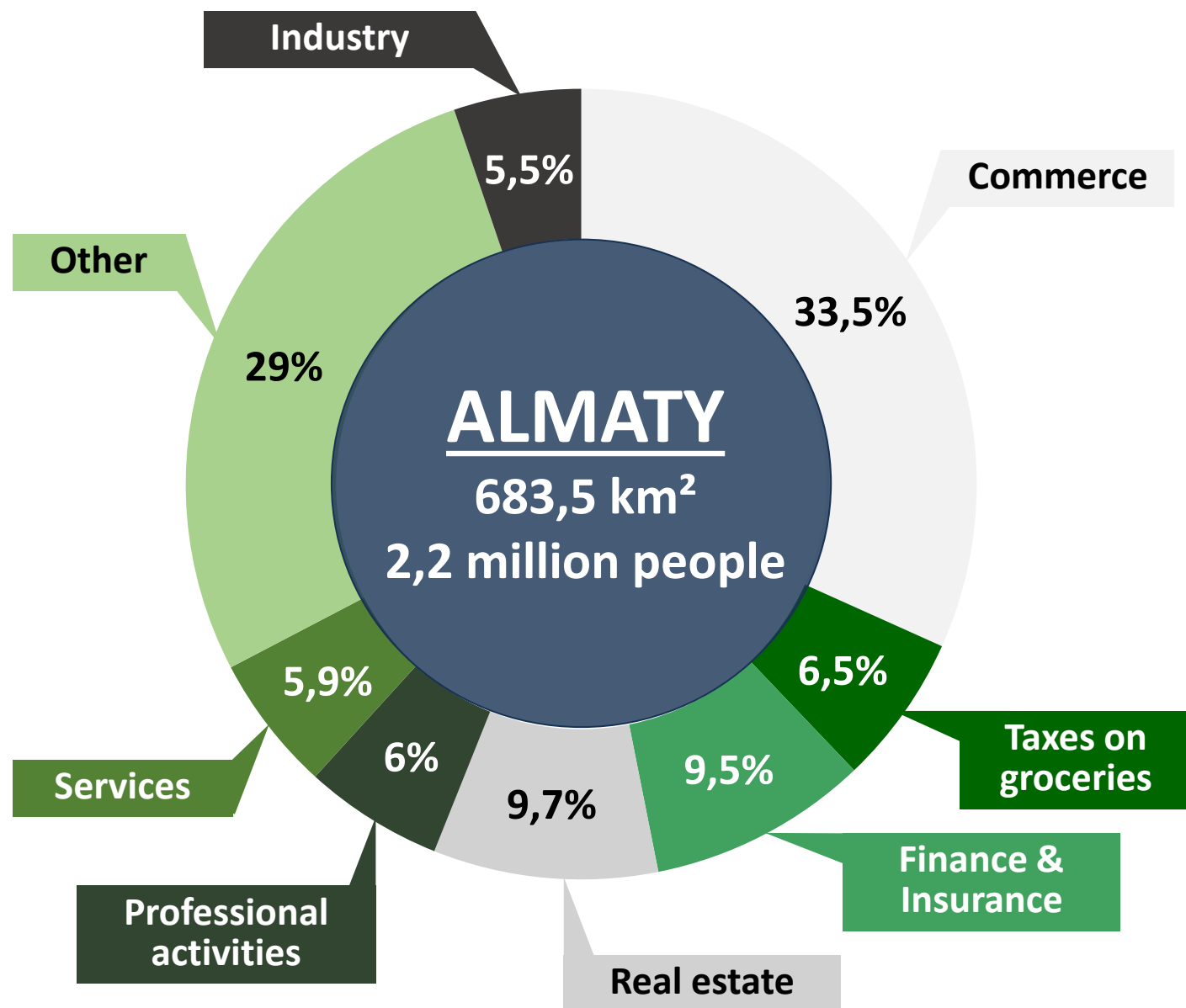
Share of production  
goods – **8,1%**,  
services – **83,3%**

**250** cars  
per 1000 people

SMES  
**353,8** thousand

Average per capita  
nominal cash income  
**230** thousand KZT  
\$ 508 USD

**VISION:** A modern, world-renowned city that is comfortable to live and work in, attracting tourists, flows of goods, innovation and capital



Volume of retail trade  
\$ **7,5** billion

Average monthly  
nominal wages  
**420** thousand

Economically active  
population  
**985,5** thousand

**29** square kilometers of  
housing per 1 person

Life expectancy  
**77,32** years

# CURRENT SITUATION

Almaty City Development Program until 2025  
and medium-term prospects until 2030

A framework for comprehensive transition of local governments to policies for achieving the UN SDGs

Approach to monitoring the implementation of  
the SDGs

SDG targets and indicators were identified and  
compared with the indicators of the Development  
Program

The process of establishing a monitoring  
platform for achieving the SDGs based on big  
data technologies

An electronic platform for monitoring SDG  
indicators is under development

Each area of the **program** is **linked to** one or more of the  
**Sustainable Development Goals.**

# LINKING THE PROGRAM'S GOALS TO THE UN SDGS

## I. Comfortable urban environment



Goal 1.1. Polycentric development of Almaty



Goal 1.2. Developed public transport, transport connectivity of polycenters and the city core



Goal 1.3. Improving the quality of services in the housing and utilities sector



## III. Controlled urbanization



Goal 3.1. Integration of public transport within the Almaty agglomeration



Goal 3.2. Unified system for the collection and disposal of solid waste in the agglomeration

## II. Sustainable economic growth



Goal 2.1. Development of high-tech and "clean" production



Goal 2.2. Development of creative industries



Goal 2.3. Export of tourist services



## IV. Social sustainability and stability



Goal 4.1. Creating an inclusive environment in Almaty



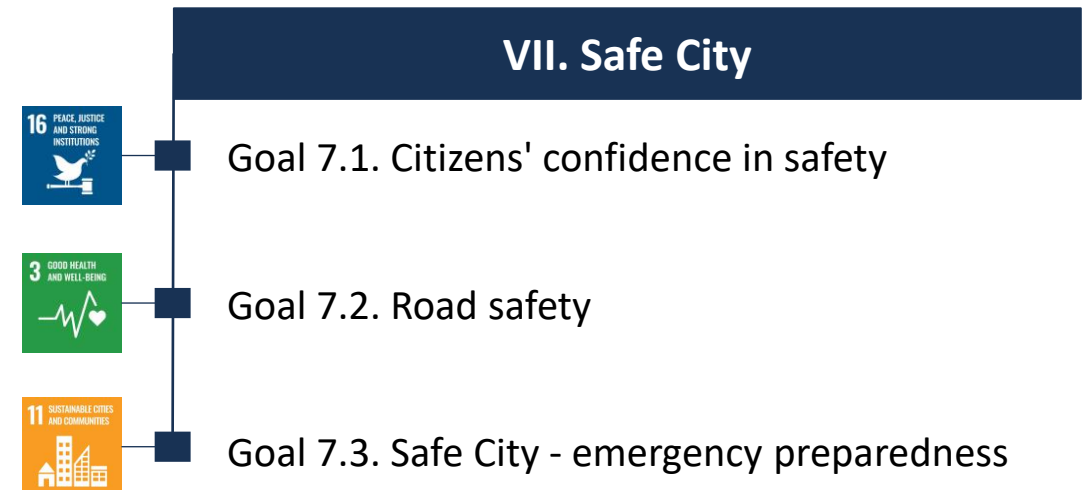
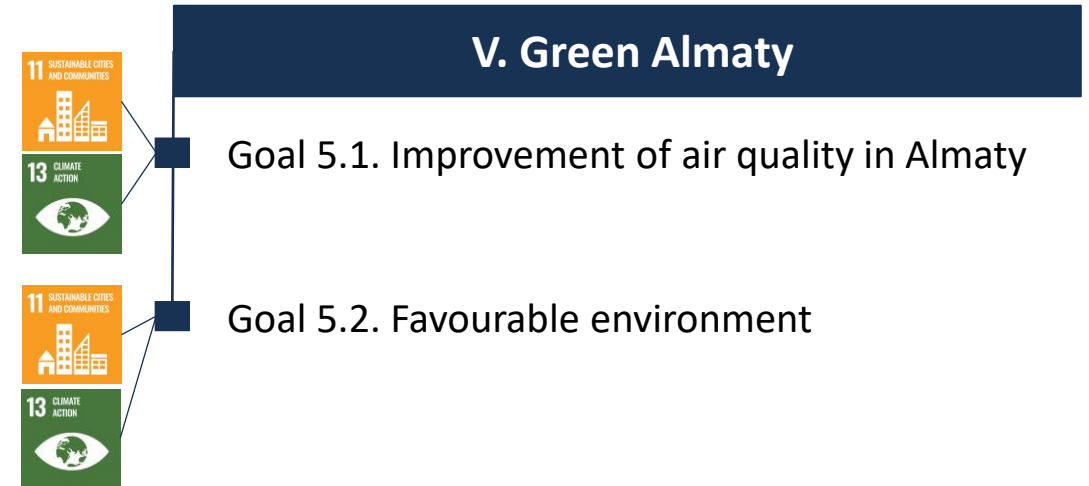
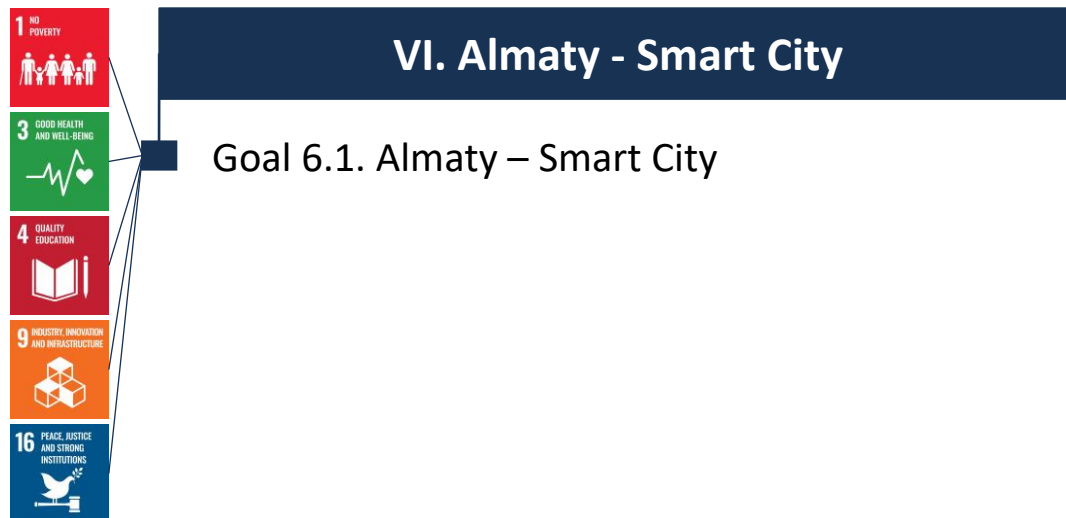
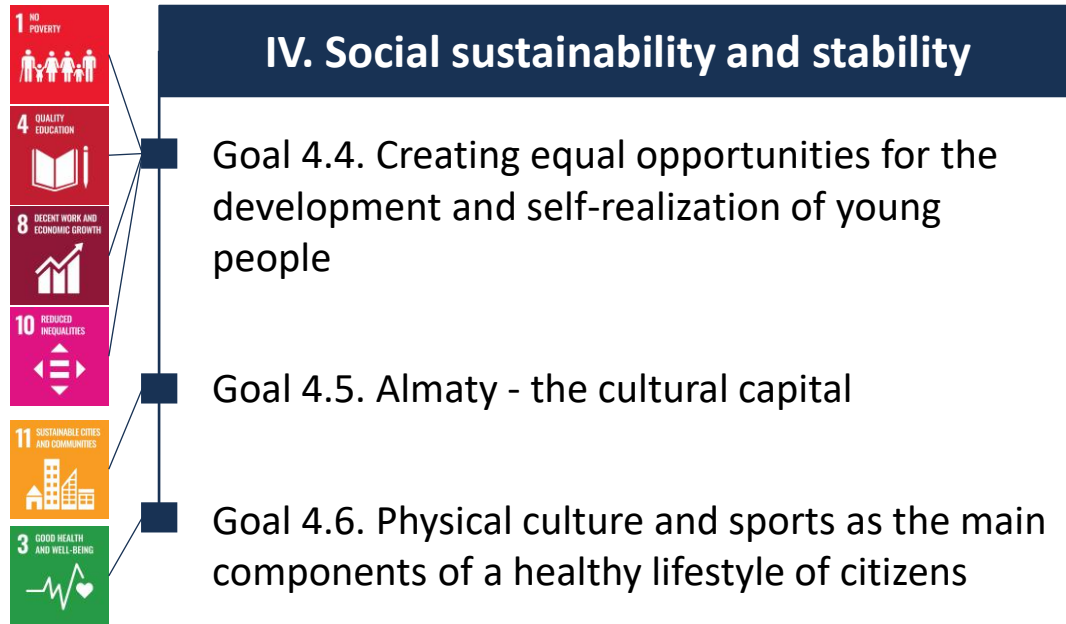
Goal 4.2. Quality education



Goal 4.3. Affordable and high-quality medical services for all



# LINKING THE PROGRAM'S GOALS TO THE UN SDGS



# THE MOST SIGNIFICANT MEGATRENDS IN URBAN DEVELOPMENT



SUSTAINABLE  
URBAN  
DEVELOPMENT



INVOLVEMENT OF CITY  
RESIDENTS IN THE DECISION-  
MAKING PROCESS, CO-CREATION



"SMART CITY",  
DATA ANALYTICS



CIRCULAR  
ECONOMY



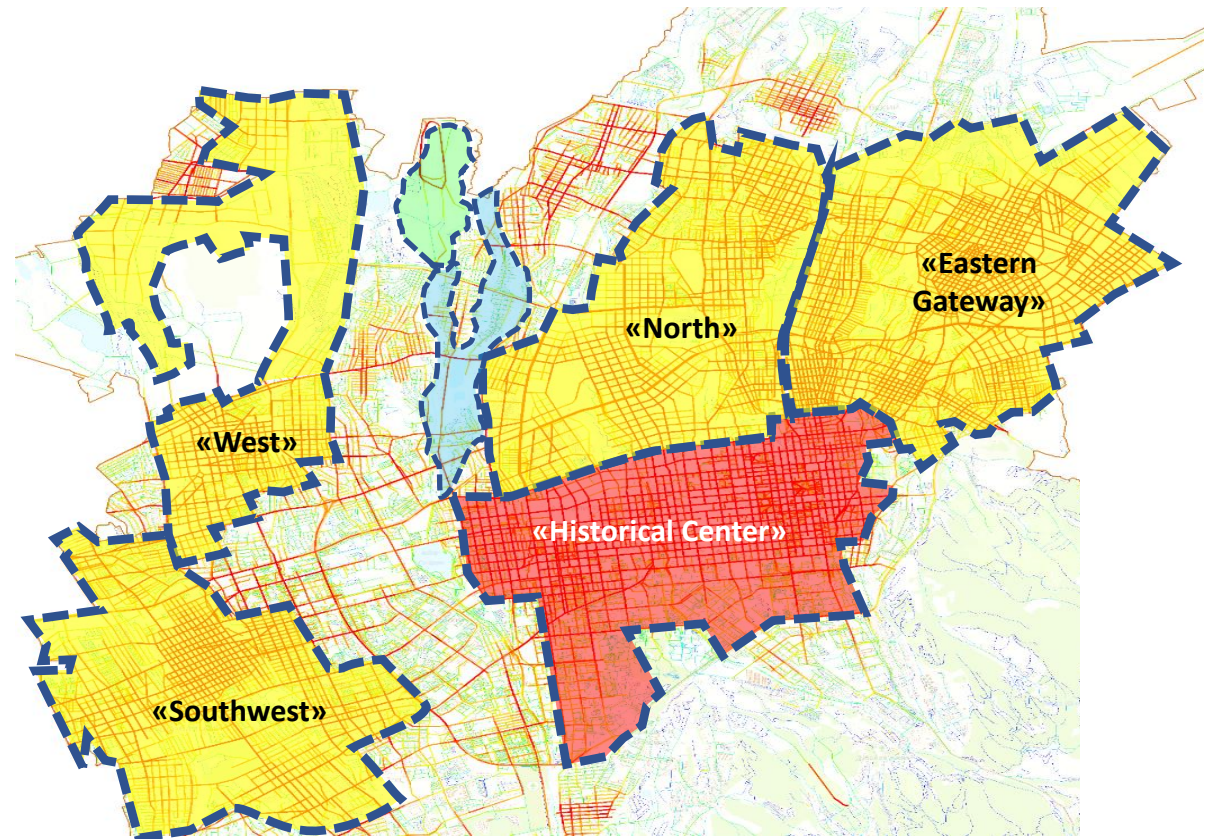
INNOVATION  
IN LOCAL  
GOVERNANCE



# POLYCENTRIC DEVELOPMENT OF ALMATY

Each residential area should provide residents with everything they need within walking distance, making it possible to stimulate cycling and pedestrian traffic. All parts of the city should be connected by accessible public transport

- **"North"** – removal of production facilities and markets with redevelopment of liberated territories, new territories for recreation and landscaping (along the BAK, Baum grove), developed service sector
- **"Eastern Gate"** – logistics hub and exhibition and entertainment center in the airport area, medicine, pharmaceuticals
- **"Historical Center"** – tourism, developed service sector
- **"West"** – large industrial enterprises, transport and logistics hub
- **"Southwest"** – mini-industrial parks, trade, logistics



By **2030**, it is planned to complete the formation of the structure of polycenters, taking into account economic specialization

# DEVELOPMENT OF PUBLIC TRANSPORT

2023

- **1,150 buses** were purchased, including **550 units** private carriers
- For the first time in **11 years**, the **trolleybus fleet** was updated by **100 units**



2024

- It is planned to purchase **1,000 buses**, including **400 units** private carriers, as well as **100 electric buses**
- It is planned to purchase **100 trolleybuses**
- A **ban** on the purchase of **diesel buses** is being introduced



**Reducing harmful emissions through the development and greening of public transport:  
carbon dioxide (CO2) – by **32%**, nitrogen dioxide (NO2) – by **53%****

# DEVELOPMENT OF PUBLIC TRANSPORT

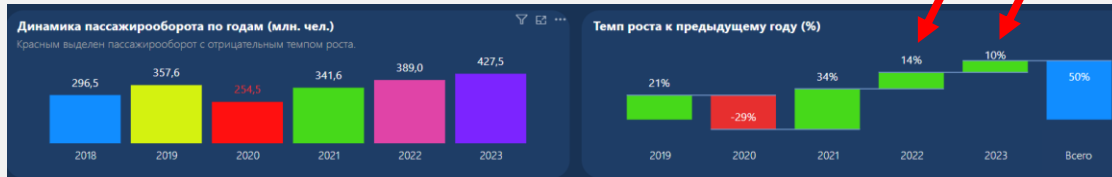
Active work is underway to form the **city's Transport Framework** in order to transition to an effective and sustainable model of urban mobility that meets the requirements of a modern metropolis

- The basis of the **Transport Framework** is **high-speed public transport** (BRT, LRT, Metro)
- Ensuring **transport connectivity** of **5 polycenters** provided for in the General Plan of Almaty until 2040
- Work is underway to ensure **transport connectivity** of the **city** with the **Almaty agglomeration**
- Change in trip ratio:
  - current: **32%** - by PT, **68%** - by personal car
  - by **2030**: **54%** - by PT, **46%** - by personal car
- Increase in the **speed of public transport** in the general flow during peak hours from **15 km/h** to **25 km/h**

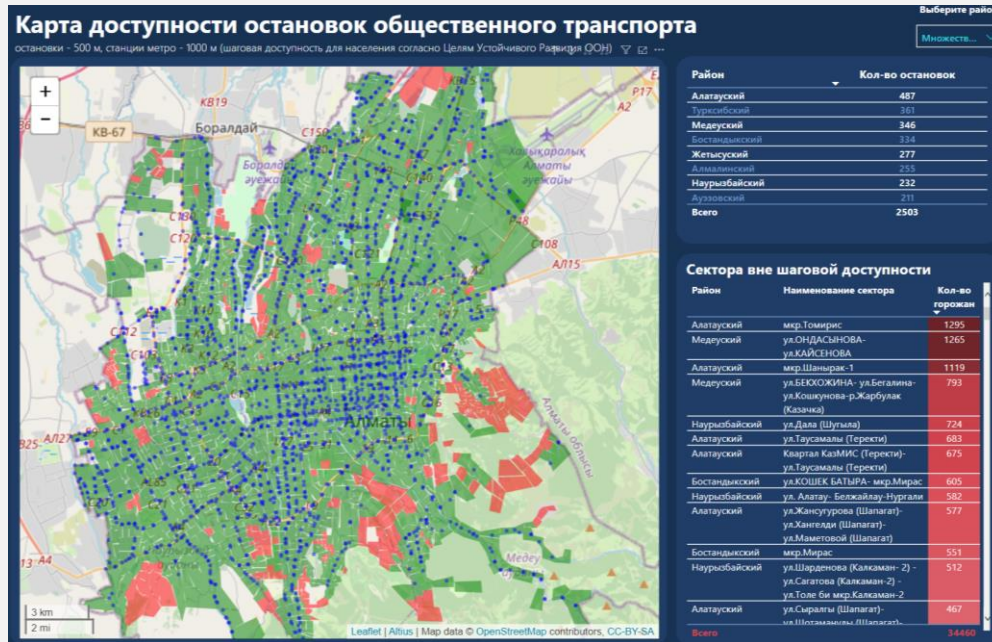
**Increase in the share of trips by public transport from 32% to 54% - from 1.4 million in 2023 to 3 million trips by 2030**

# PUBLIC TRANSPORT: ACCESSIBILITY ANALYTICS

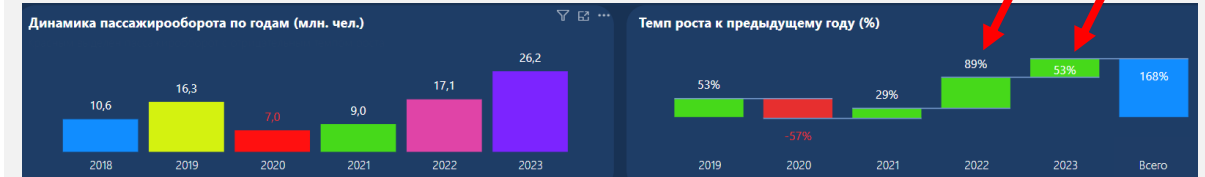
## Dynamics of Passenger Traffic Growth (Buses, Trolleybuses)



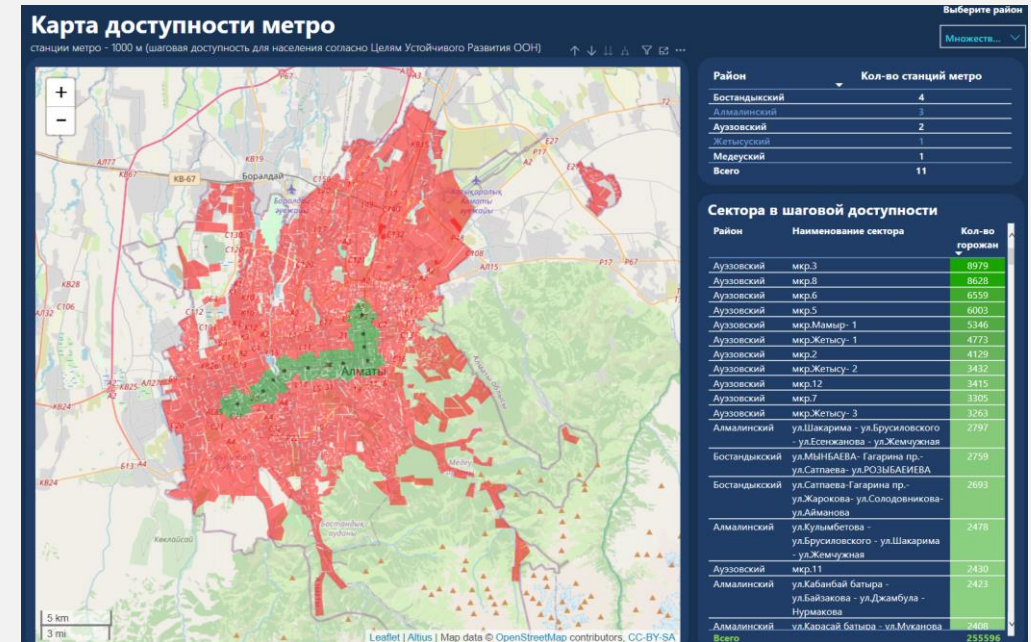
## Accessibility of Stops



## Dynamics of Passenger Traffic Growth (Metro)



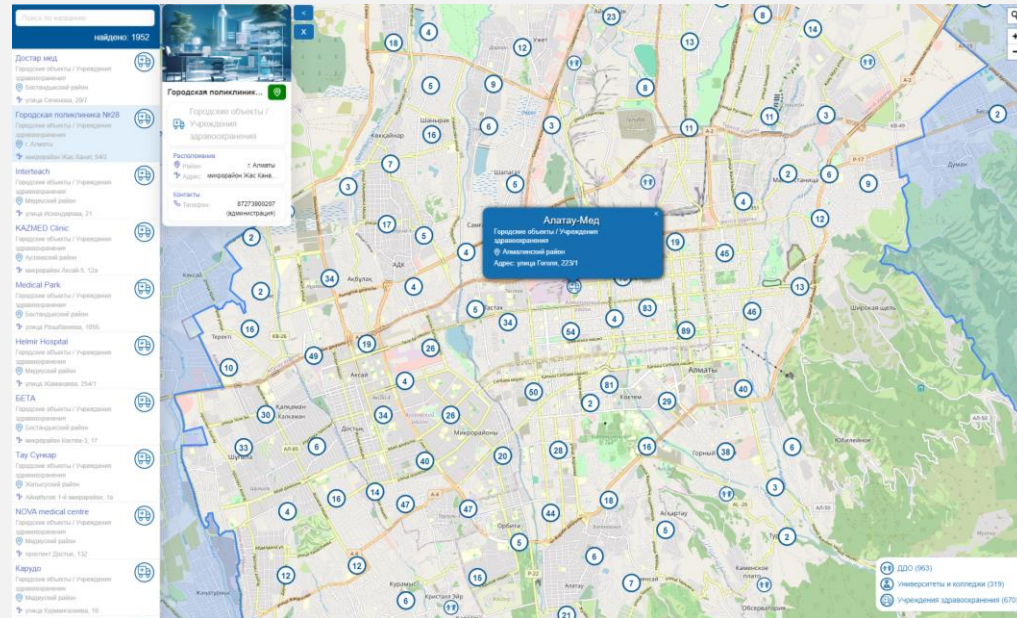
## Accessibility of Stations



Bus and trolleybus stop coverage is excellent, and future plans include enhancing rapid transport; public transport traffic grew by **50%**, with metro usage up **168%**.

# SOCIAL FACILITIES

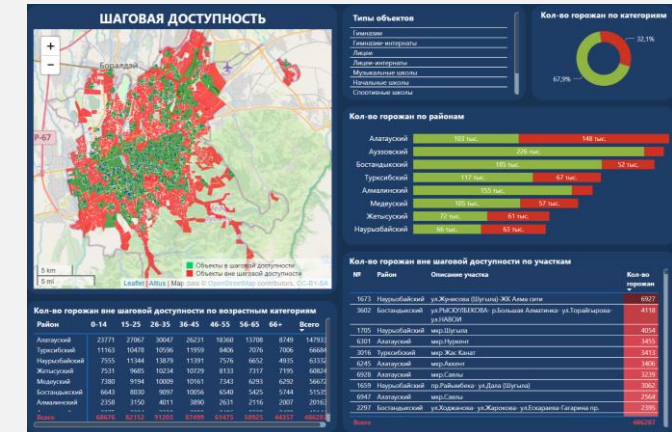
## «Infrastructure» module



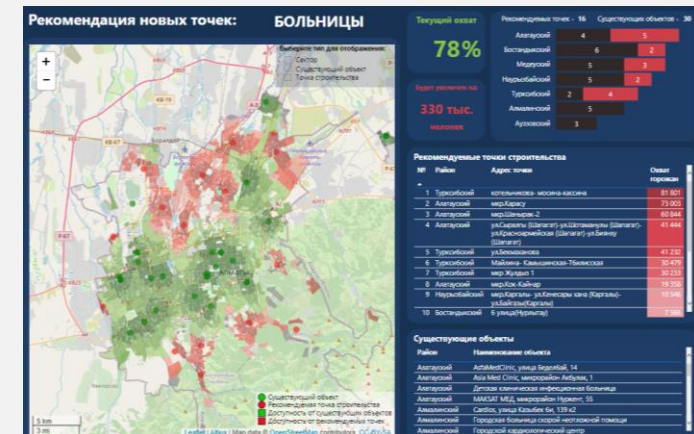
The analytics provide city management with:

- Geo-spatial analysis of social objects beyond walking distance
- Evaluation of current social object locations and their provision for the population
- Assessment of population volume and areas lacking accessibility
- Recommendations for new social object placements for informed decision-making

## Analytics



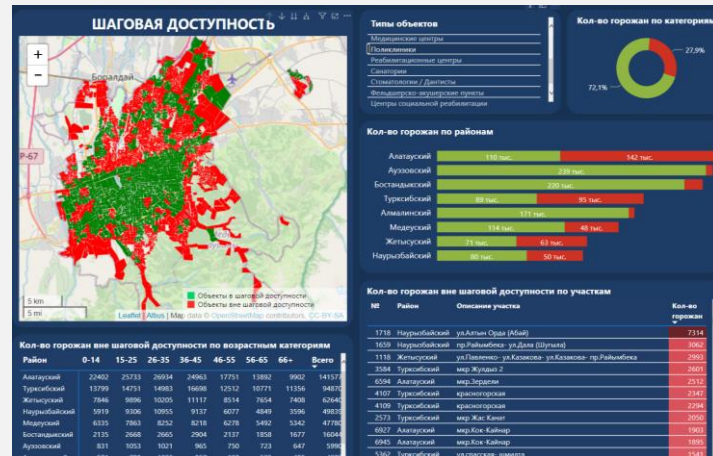
## Recommendations



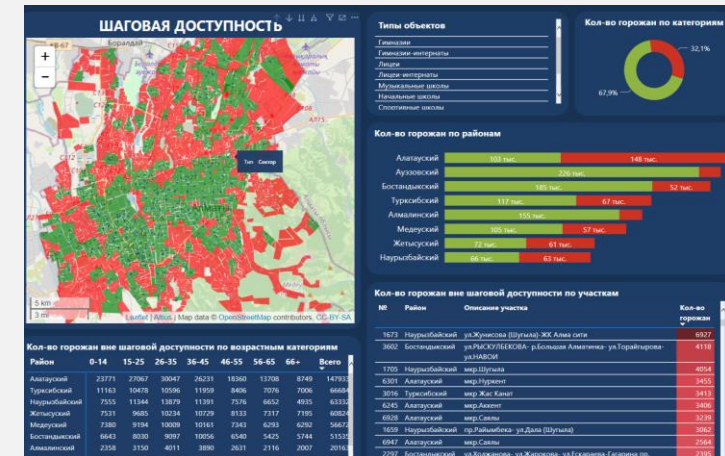
With this module, it is possible to analyze any social object and perform comprehensive analytics.

# WALKABILITY OF SOCIAL FACILITIES

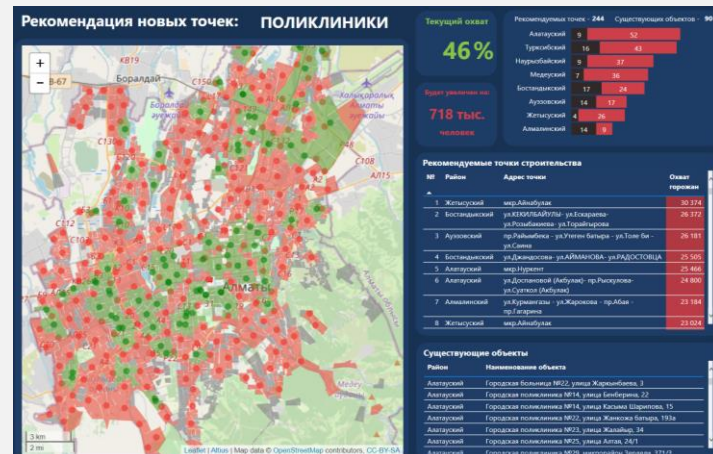
## Public Health Clinics. Current status.



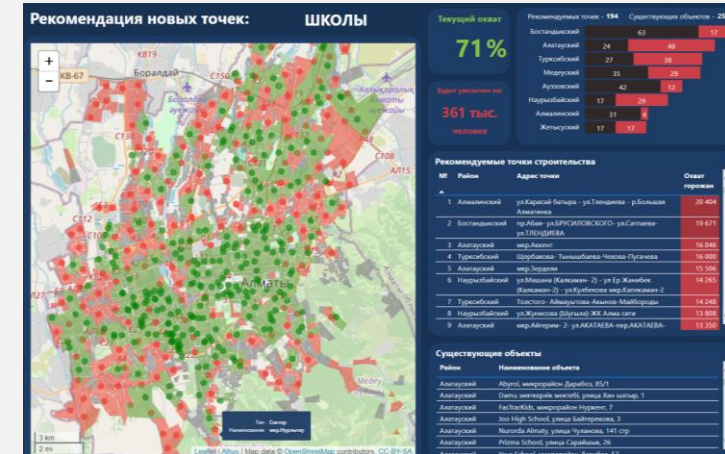
## Schools. Current status.



## Recommendations for new construction locations.



## Recommendations for new construction locations.



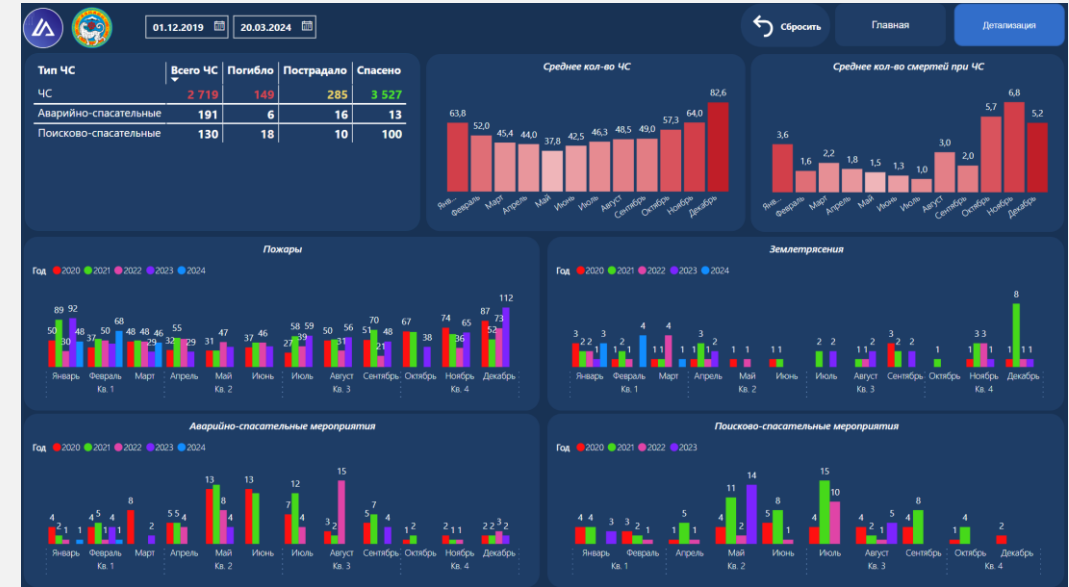
The Situation Centre enables continuous monitoring and improvement through data-driven decision-making.

# SAFETY : «DEPARTMENT OF EMERGENCY SITUATIONS» MODULE

## Online notification of emergency situations



## Monitoring of emergency situations



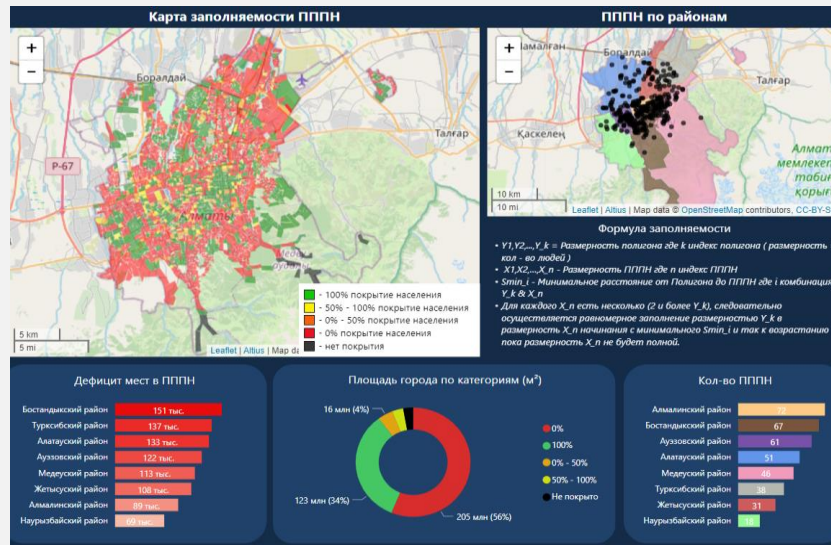
### The module displays the following on the map:

- Incidents, including their location and time of occurrence;
- Action Plans for ongoing emergencies with implementation status
- Information on emergencies, including casualties;
- Analysis of emergency and search-and-rescue operations, assessing effectiveness and identifying vulnerabilities;
- Monthly analysis of incidents (fires, earthquakes, and rescue operations) to identify trends and necessary precautions;

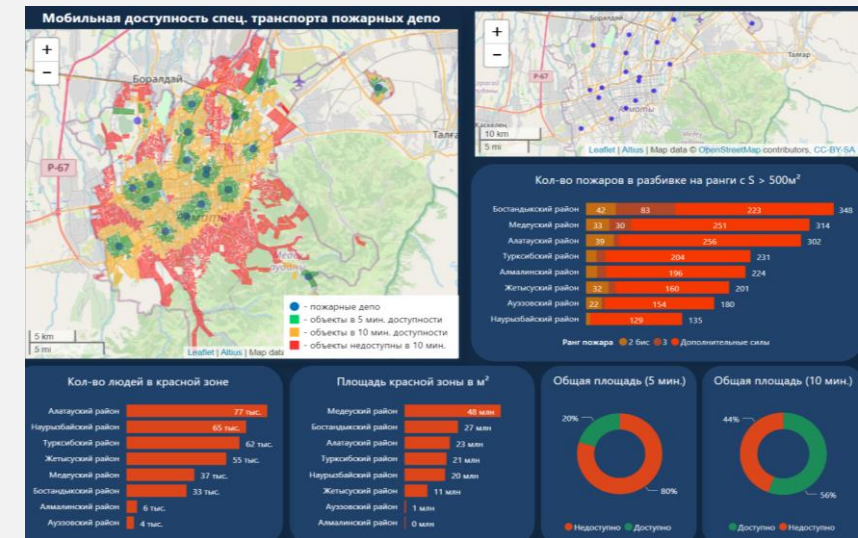
**Almaty enhances resilience and optimizations in emergency response and safety through comprehensive monitoring and analysis**

# SECURITY: «DEPARTMENT OF EMERGENCY SITUATIONS» ANALYTICS

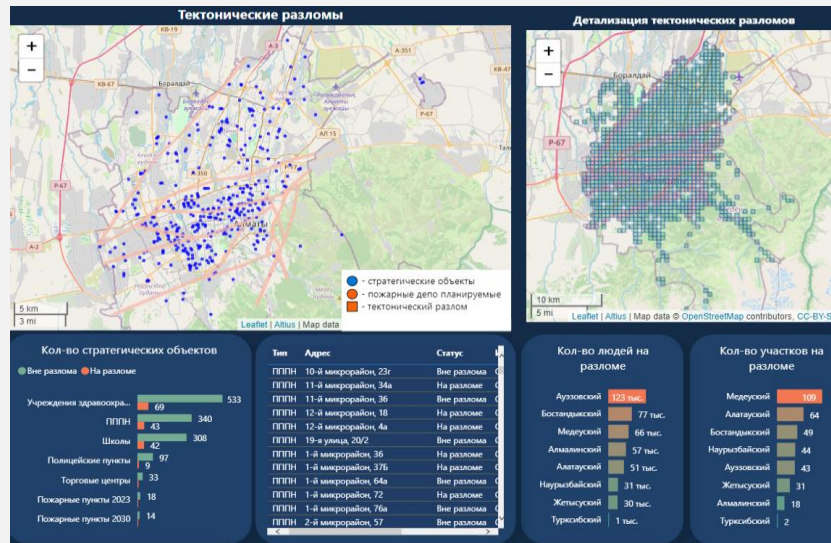
## Map of occupancy rates at gathering points



## «Department of Emergency Situations» analytics



## Tectonic faults



## Analytics displays the following:

- Mobile accessibility of fire brigades during emergencies and fires, including future fire depot plans
- Earthquake statistics and activity analysis
- Accessibility and capacity of population collection points
- Tectonic faults and social facilities within those areas

# Thank you for your attention

Himeji, 2024



**ALMATY**  
development centre