UNECE

SMART AND SUSTAINABLE CITY PROFILE, NUR-SULTAN, KAZAKHSTAN

Nur-Sultan

ACTAHA INNOVATIONS

NUR-SULTAN CITY

NurSultan
ҰЛЫ ДАЛА ЖҮРЕГІ

📍 **CAPITAL** OF
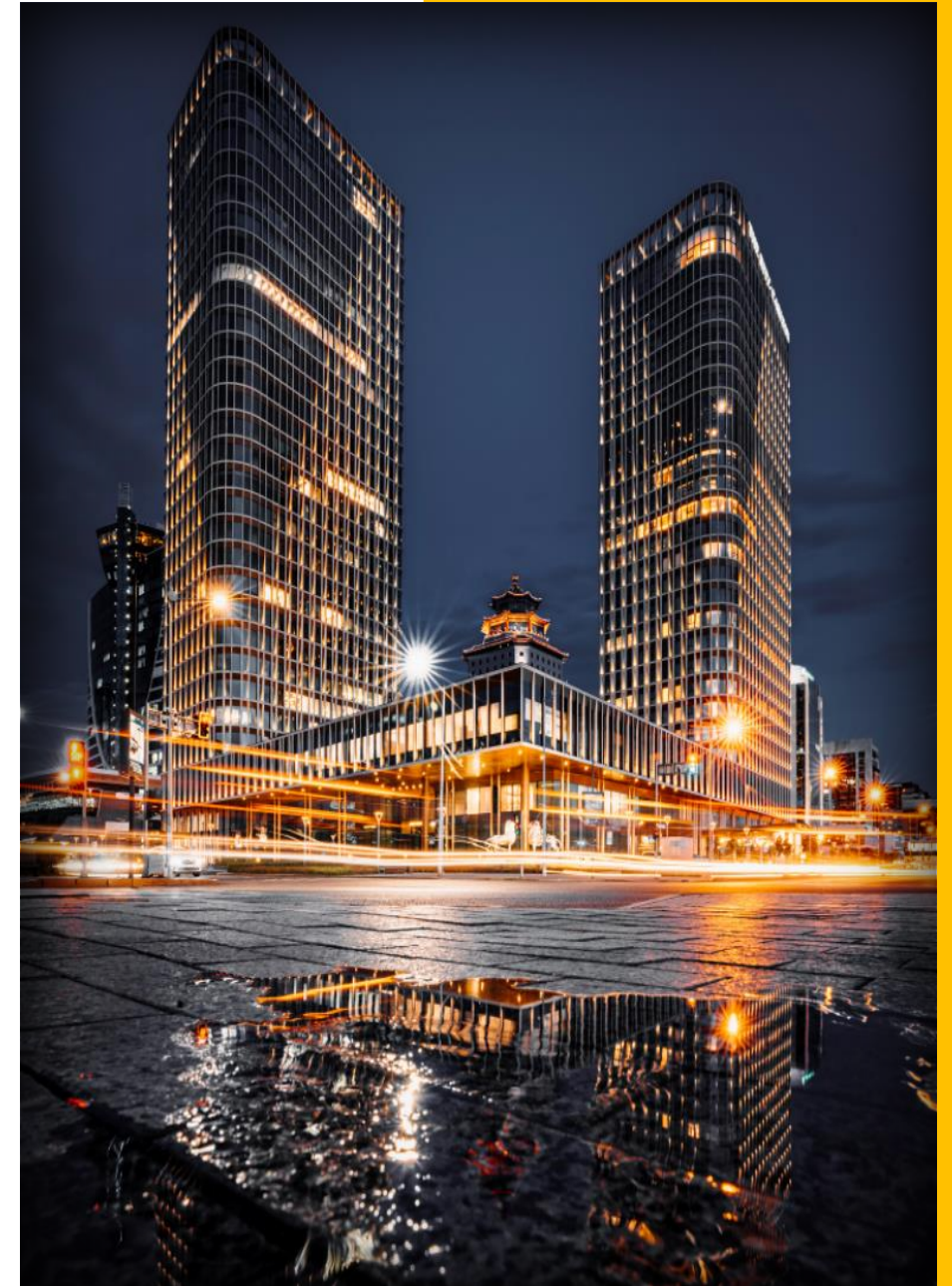THE REPUBLIC OF KAZAKHSTAN

👥📈 **POPULATION:** 1 230 000 PEOPLE

🧭 **CITYAREA:** 722 SQUARE KM

⛰️ **4 DISTRICTS:** "ALMATY", "SARYARKA","
YESIL "AND" BAIKONUR

💡 «CITY DEVELOPMENT ACCORDING TO
THE "SMART ASTANA" CONCEPT»

«SMART ASTANA» CONCEPT

OPEN DATA

- Engaging businesses in solving urban problems- 45 data sets, 8 categories
- Improving the efficiency of digital business- 3 formats for downloading data, version for the visually impaired, mobile version

BIG DATA (DATA ANALYSIS)

104 data sources, 307 observation objects
- Recommendations for the construction of 13 schools (12 private, 1 state)
- 10 points "Doctor at home»
- 32,000 residents were discharged from "rubber apartments»
- 4,317 large families and mothers were identified

MOBILE APPLICATION «SMART ASTANA»

- Optimization of business processes for obtaining public services and city services
- **Save money** and time for residents
- Checking and tracking requests for better city services

GEOINFORMATION SYSTEM+ 3D MAP

- Digitization of engineering networks;
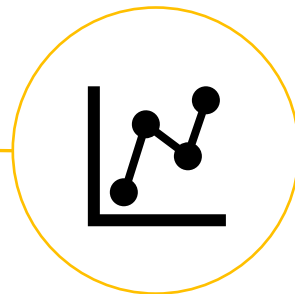- Holographic **3D model of the city**;
- Development of BZ and TOR for 2020

COOPERATION WITH UNECE

2018

ARRIVAL OF UNECE REPRESENTATIVES IN KAZAKHSTAN

START OF COOPERATION BETWEEN UNECE AND «ASTANA INNOVATIONS» JSC (NUR-SULTAN)

2019

TRAINING FOR ASTANA INNOVATIONS TEAM ON METHODOLOGY OF EVALUATIION OF "SMART AND SUSTAINABLE" CITIES

COLLECTING KEY PERFORMANCE INDICATORS FOR 2019

2020

ANALYSIS AND VERIFICATION OF DATA FROM NUR-SULTAN FOR 2019

PRESENTATION OF REPORT AT 81st COMMITTEE SESSION ON URBAN DEVELOPMENT, HOUSING AND LAND MANAGEMENT

(October, Geneva)

2021

COLLECTION OF KEY PERFORMANCE INDICATORS FOR 2020

DISCUSSION ON POSSIBILITY TO OPEN UN CHARTER OF EXCELLENCE CENTER ON THE BASIS OF ASTANA INNOVATIONS

LAUNCH OF AUTOMATED SOFTWARE FOR COLLECTION OF KPI's

₸0 WAS SPENT FROM THE CITY BUDGET DURING THE ANALYSIS AND DEVELOPMENT OF THE REPORT. ALL WORKS WERE CARRIED OUT BY THE OWN FORCES OF «ASTANA INNOVATIONS» JSC AND TECHNICAL SUPPORT OF THE UNECE EXPERTS.

NUR-SULTAN CITY PROFILE ASSESMENT

The review of the city of Nur-Sultan is carried out by an assessment based on methodology for collecting key performance indicators for smart and sustainable cities developed as part of the U4SSC initiative(UNITED FOR SMART SUSTAINABLE CITIES).

*This set of **key performance indicators (KPIs)** for Smart and Sustainable cities is designed to establish criteria for evaluating the contribution of **information and communication technologies (ICTs)** to improving the efficiency and sustainability of cities, as well as to provide cities with self-assessment tools.*
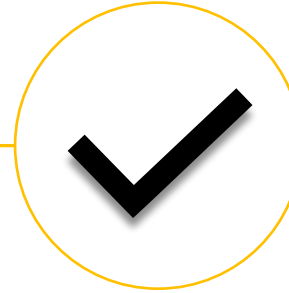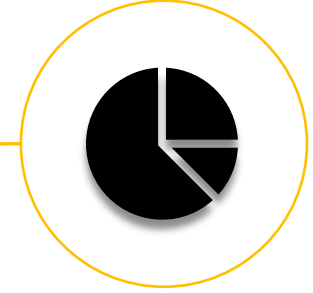
THE PROCESS OF FORMING A CITY PROFILE

COLLECTION AND ANALYSIS KPI DATA

THE SURVEY OF INTERESTED PARTIES OF CITY

VERIFICATION THAT DATA WAS PRESENTED IN ACCORDANCE WITH THE REQUIREMENTS OF THE METHODOLOGY FOR COLLECTING KEY PERFORMANCE INDICATORS

REPORT PREPARATION ON DATA VERIFICATION

KEY AREA:

ECONOMY

ENVIRONMENT

SOCIETY AND CULTURE

DATA VERIFICATION REPORT OF NUR-SULTAN CITY

Legend:
- 95+ % of Target
- 66 - 95 % of Target
- 33 - 66 % of Target
- Less than 33 % of Target
- No Data or No Target
- Data Reported - No Targets Yet Available

1. IMPROVE SOLID WASTE MANAGEMENT SYSTEM

Nur-Sultan city, already has positive changes.
Residents actively using separate bins for sorting garbage. This culture is being widely spread and quickly covers the entire city.
There is also strict control over urban landfills and monitoring of garbage collection.

2. IMPROVE PUBLIC BUILDING SUSTAINABILITY, BY EMPLOYING CERTIFICATION MEASURES AND INFORMATION AND COMMUNICATION TECHNOLOGIES.

More and more modern energy-efficient buildings are appearing in the capital, as well as elements of "street lighting" are being introduced.
Street lighting is being gradually replaced with energy-saving led lamps, which are up to 35-40% efficient.
The city has 47 thousand light points, this year we plan to change about 10 thousand.
It is planned to complete the work in the entire city within three years.

3. IMPROVE URBAN AND SPATIAL PLANNING

The efforts of the Mayor's office of Nur-Sultan represented by the Center of Urbanism, use modern methods at the planning of public and local spaces.
We try international practices for joint planning of territories with residents of the city of Nur-Sultan, where ideas that are really interesting for residents are adopted by consensus.

4. IMPROVE ACCESS TO DECENT-QUALITY, AFFORDABLE HOUSING FOR ALL

The Capital continues to be a leader in the construction sector.
Millions of square meters of housing and social facilities are built every year.
Today, affordable housing is distributed among teachers and doctors, as well as other categories of residents. This year, a total of about 1,000 apartments will be distributed among residents of the capital.

5. IMPROVE URBAN GOVERNANCE FOR SUSTAINABLE DEVELOPMENT AND THE ACCESS AND AVAILABILITY OF URBAN DATA

By the efforts of the Department for digitalization and public services and the company "Astana Innovations" JSC, we are digitalizing all areas of the city's life. We will work out a series of measures to improve urban planning with the aid of ICT technologies.

THANK YOU
FOR YOUR ATTENTION