



**STANDART
PROJECT**

SAFE AND SMART CITY

**INTELLIGENT
SYSTEMS
OF DESCRIPTION
AND FIXING**



NIBE

B U S I N E S S S E R V I C E S



Nibe Business Services

NIBE serves as the official representative for Standart Project in Saudi Arabia and is currently expanding their services and relationship into the Saudi Market.

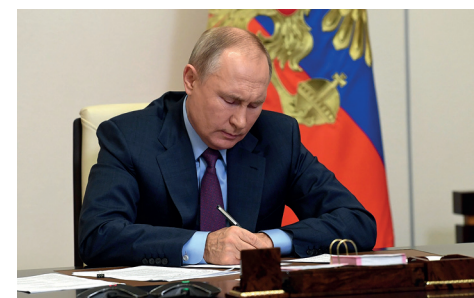
Standart Project possesses extensive and exceptional knowledge in developing secure and intelligent urban environments, which ideally connects with Saudi Arabia's ambitious Vision 2030 goals.

By combining NIBE's full assistance and Standard Projects' unique experience, we are committed to partnering with industry leaders to ensure the successful integration of cutting-edge expertise into key projects related to the Saudi 2030 vision and the successful implementation of innovative solutions that support Saudi Arabia's ambitious future goals.



The changing world around us requires a complete reconsideration of approaches to life safety and public order. By turning to tradition and applying established experience, it is possible to ensure stability through the use of modern technology and innovative solutions.

The only truly modern and effective approach to ensure the safety of life and health of citizens is the implementation of the unified system «Safe City» and its hardware and software solutions.



On the basis of the Concept of Building and Development of «Safe City» APC, approved by the Order of the Government of the Russian Federation, a Draft Federal Law «On the Unified System of Information and Analytical Support of Safety of Living Environment and public order «Safe City».

THE UNIFIED «SAFE CITY» SYSTEM -

a set of legal, technical, economic and organizational arrangements implemented on the territory of the Russian Federation to improve decision-making support processes in the field of environmental safety and public order in the territories of constituent entities of the Russian Federation and municipalities.



- Management of socio-economic development efficiency
- Prevention and prophylaxis of threats on the territory of the subject of the Russian Federation and the municipality through predictive analysis
- Continuous monitoring of sources of natural and man-made threats through terminal devices (sensors, cameras, etc.)
- Crisis management through a set of information systems and objective control systems
- Multifactor analysis of the quality of interaction and work of services and organizations on incidents/requests from the population
- Implementation of an adaptive mechanism for solving problems unique to the region of the country
- Management of natural, man-made, biological and social risks and threats to public order
- Organization of interaction with the population of the city on issues of integrated safety and quality of the urban environment
- Planning measures to prevent the emergence of threats

TASKS

AT THE REGIONAL AND MUNICIPAL LEVELS

- Decision-making time reduction
- Modeling the consequences of decisions
- Improving the quality of management decisions by providing information based on objective data
- Greater transparency of government processes
- Reducing the number of crisis situations
- Increasing the effectiveness of the decisions of the highest officials of the region (including the governor's KPIs)
- Increased quality of services involved in the response to incidents
- Optimization of costs of services related to incident response and elimination
- Reduction of expenses for operation of security systems
- Optimization of expenditures on prevention and avoidance of emergencies
- Increasing comfort and quality of life
- Development of small and medium-sized businesses as part of the creation and operation of safety systems

Unified system «Safe City» - a tool for the development and management of the region and municipality

SAFE AND SMART CITY

The unified system «Safe City» is oriented to the interests of the inhabitants of the state, improving the quality of life and comfort of every citizen.

THE BUSINESS ARCHITECTURE OF THE UNIFIED SYSTEM «SAFE AND SMART CITY»



STANDARTPROJECT

REGIONAL LEVEL

REGIONAL INTEGRATION PLATFORM

MUNICIPAL INTEGRATION PLATFORM

MUNICIPAL LEVEL (efficiency and safety)



REGIONAL HEAD'S DASHBOARD

DASHBOARDS OF HEADS OF MUNICIPALITIES

DATA SOURCES

SENSORS AND EQUIPMENT
RESIDENTS
BODIES OF LOCAL GOVERNMENT
FACILITIES AND ORGANIZATIONS



**LIST OF PARTICIPANTS OF THE INTERDEPARTMENTAL COMMISSION
ON IMPLEMENTATION AND DEVELOPMENT OF HARDWARE AND SOFTWARE
COMPLEX SYSTEMS OF TECHNICAL MEANS**

«SAFE CITY»

- State Duma of the Federal Assembly of the Russian Federation
- Ministry of the Russian Federation for Civil Defense, Emergencies and Elimination of Consequences of Natural Disasters
- Ministry of Internal Affairs of Russia
- Ministry of Industry and Trade of the Russian Federation
- Ministry of Natural Resources and Environment
- Ministry of Transport and Road Management
- Ministry of Economic Development of the Russian Federation
- Ministry of Finance of the Russian Federation
- Ministry of Digital Development, Communications and Mass Media of the Russian Federation
- Ministry of Construction and Housing and Communal Services of the Russian Federation



- Ministry of Justice of the Russian Federation
- Ministry of Energy of the Russian Federation
- Federal Security Service of the Russian Federation
- Federal Service of National Guard Troops of the Russian Federation (Rosgvardia)
- Federal Guard Service of the Russian Federation
- Ministry of Defense of the Russian Federation
- Russian Academy of Sciences
- Federal Service for Ecological, Technological and Nuclear Supervision (Rostekhnadzor)
- Federal Service for Hydrometeorology and Environmental Monitoring (Rosgidromet)

Coordination of actions of all participants of information exchange
Management of forces and means on the territory
Monitoring and control of risk indicators
Forecasting the consequences of accidents
Analysis of specific threats and prevention of their occurrence
Interaction with the population

THE NECESSARY COMPONENTS OF THE SYSTEM:

1. Development of the Federal Law on the Unified System «Safe City» with unified principles of operation
2. Methodological and technological elaboration of the decision support system in the territory with the involvement of qualified specialists
3. Defining uniform standards for the entire subject area: from forecasting and response standards to requirements for monitoring infrastructure

Monitoring and forecasting of natural hazards
Parametric monitoring of excess of maximum permissible pollutant discharge / maximum permissible load of harmful substances and prevention of technogenic crisis situations
Monitoring of anthropogenic impact on the environment
Monitoring of waste disposal and occurrence of unauthorized waste disposal sites
Monitoring the effectiveness of measures to ensure environmental safety
Interaction with users of natural resources

SAFETY OF URBAN
AND MUNICIPAL INFRASTRUCTURE



PUBLIC
ORDER



ECOLOGICAL
SECURITY



SECURITY
IN TRANSPORT

“SAFE AND SMART CITY”

Decrease in mortality
Monitoring of transport accidents
Traffic route optimization
Scenario traffic management
Traffic flow planning
Analysis and control of
organizational order fulfillment
Road infrastructure facilities management
Delinquency prevention

«WEB»
«SPHERE»



Preventing threats to public order
Monitoring terrorist threats
Spatial development planning and management
Management of city services
Industrial and fire safety monitoring
Social sphere security prevention
Remote Identification
Control of mask mode
Movement control
Remote volition

PUBLIC ORDER

The prevention of offenses and the maintenance of public order involve the widespread use of video surveillance systems.



Functions of video surveillance and fixation systems:

- Real-time video stream analysis.
- Automatic event registration based on video analysis.
- Face identification and facial recognition.

Analysis of the video stream automatically reports offenses and emergency situations.

All information about emergency events instantly reaches the situation centers and the corresponding rapid response teams.

Widespread use of video recording systems allows a huge flow of data on people and their movements. And video processing allows you to automatically identify people who are wanted by the databases of law enforcement agencies.

- 1 Information and analytical support in the field of public order and crime prevention on the territory of a municipal district, municipal, urban district;
- 2 Assistance in organizing the monitoring of public order on the territory of a municipal district, municipality, city district;
- 3 Ensuring the collection and consolidation at the regional and municipal levels of information from systems of control and monitoring of public order;
- 4 Organization of intelligent processing of video stream data of the public order monitoring systems of the municipal district, municipality, and city district;
- 5 Providing organizational and technical support for informing and alerting the population of the municipal district, municipality and city district in the event of threats to public order and bio-social threats.

TECHNOLOGICAL MAINTENANCE OF PUBLIC ORDER

- Security systems
- Facility monitoring
- Data integration systems
- Efficiency Control
- Calculation of ratings and performance indicators
- Dispatching systems
- Emergency Call Systems
- Access Control Systems
- Systems of mobile personnel management
- Spatial data bank (SDB)
- Unified platform for intelligent video surveillance

- Artificial Intelligence
- Machine vision
- Distributed data processing (primary collection)
- HDCVI, HDTVI, AHD high-definition CCTV technologies
- Newest video compression codecs
- Streaming platform solutions

- Video streams
- Alarms by video analytics detectors: zone control, forgotten items, crowds of people
- Thermal imaging camera data
- Breathalyzer data
- Data exchange cards
- Alarms of alarm devices
- Geo-positioning
- Penalty Orders
- Alarms on video analytics detectors

MODULES

TECHNOLOGIES

DATA

IN FACTS AND FIGURES

Benefits from the use of the ACS «Smart City» and its integration with the systems of law enforcement agencies on the territory of the Russian Federation.

Since the introduction of the system, crime detection has increased more than fourfold.

- Decrease in street crime - by 25%
- Decrease in traffic fatalities - by 13%
- Decrease in speeding violations - by 25%
- Decrease in car thefts on the territory - by 55%
- Decrease in the number of traffic accidents - by 10%



FACIAL RECOGNITION SYSTEM «SPHERE»



TRAFFIC
LIGHTS



MOBILE
AND WEARABLE
DEVICES



METRO STATIONS
METRO TRAINS



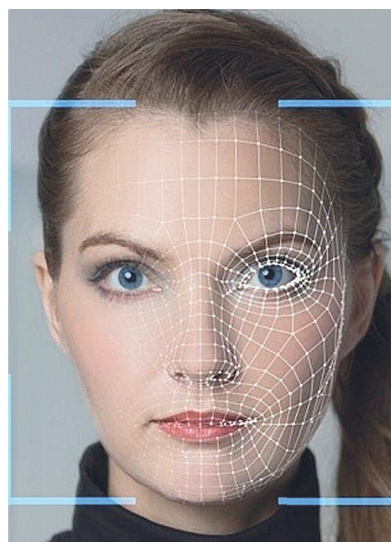
ADMINISTRATIVE
BUILDINGS



STREETCARS
BUSES
ELECTROBUSES



MCC
STATIONS



BACKGROUND AND PERSPECTIVE

1. 2018 — System Pilot during FIFA World Cup.
2. 2019 — Moscow government purchases software for deployment at the city Transportation Complex.
3. 2020 — Launch into commercial operation of the security system at 5 thousand turnstiles in the Moscow Metro.
4. 2021 —
 - FaceID used for the passage of 60,000 MM employees.
 - Starting the FaceID passage for passengers.
 - Connection to the system of cameras in vehicles, airports and railway stations, mobile objects.
5. 2022 — Connecting the rolling stock of underground and surface transport in Moscow.
6. 2022 — Launch of the system on the ground transport infrastructure in the Moscow region.
7. 2022 — Transition to the Biometrics Vendor Rating System.
8. 2023 — Start of implementation in the regions of the Russian Federation.

FACE RECOGNITION SYSTEM «SPHERE»

«SAFE AND SMART CITY» PROJECT



SYSTEM COMPOSITION:

1. Servers in COD
2. Mobile and wearable devices (tablets, watches)
3. Mobile and fixed camera infrastructure
4. Monitoring and ranking of biometric vendors



TASKS SOLVED:

■ The main task solved by «Sphere» system is the analysis of the data coming in real-time from the video cameras, detection of people in the frame and their identification in case of presence of wanted persons in the database. Notification of identified persons to authorized personnel (mobile and stationary users).

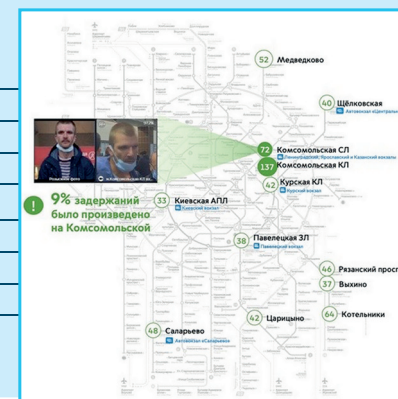
- Searching for persons
- Maintaining events and obtaining retrospective analytics
- Administering the frontiers of biometric fixation
- Managing users and their rights

ADDITIONAL FUNCTIONALITY:

- Access control and facial access
- Gender, age, presence of a mask
- Attendance control, statistics, passing of boundaries

INFRASTRUCTURE BY THE END OF 2021 WORKING INFRASTRUCTURE

- Moscow metro
- Bus terminals and interregional transport interchange hubs
- Mobile photofixing complexes
- Airports
- Tula



AND AFTER 2022 INFRASTRUCTURE PLANNED FOR LAUNCH

- MCC stations
- Land transport - streetcars, electric buses
- River passenger transport
- Traffic light facilities
- Suburban railway stations
- Flat parking lots of the closed type



FACE RECOGNITION SYSTEM «SPHERE»

«SAFE AND SMART CITY» PROJECT



USERS AND EFFECT OF IMPLEMENTATION

The use of a biometric facial recognition system
is already supported by law enforcement agencies



MINISTRY OF THE INTERIOR
OF THE RUSSIAN FEDERATION



FEDERAL SECURITY SERVICE
OF THE RUSSIAN FEDERATION



MINISTRY OF INTERNAL AFFAIRS
TRANSPORT DEPARTMENT
FOR THE CENTRAL FEDERAL DISTRICT



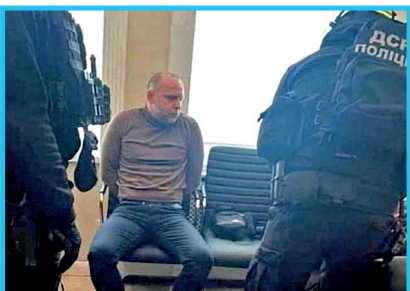
FEDERAL
SECURITY AGENCY
OF THE RUSSIAN FEDERATION



FEDERAL AGENCY
OF PENALTIES



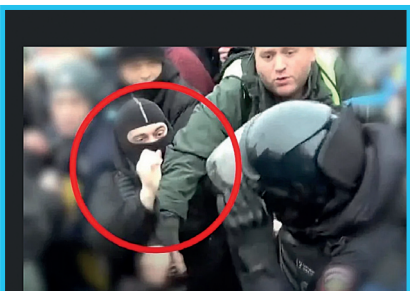
MOSCOW METRO
POLICE
DEPARTMENT



from 01/09/2020
to 10/01/2011

Identified and detained
5789 persons
wanted.

Missing persons found
356,
and among them
81 underage children



AREAS OF PARTICULAR DEMAND FOR THE SYSTEM FUNCTIONALITY

BORDER CROSSING POINTS	RESTRICTED MILITARY OBJECTS	TERRORIST HIGH DANGER PLACES	SURVEY OF FEDERAL BAILIFF SERVICE DEBTORS
------------------------------	-----------------------------------	------------------------------------	---

FACE RECOGNITION SYSTEM «SPHERE»

DEVELOPMENT POTENTIAL

FEDERAL SERVICE FOR SURVEILLANCE ON CONSUMER RIGHTS PROTECTION AND HUMAN WELLBEING

The challenge of the global pandemic has demonstrated the urgent need for an adequate and even redundant system of intelligent, visual control, It is notable for its multitasking, responsiveness, and ability to be reconfigured for specific solutions.

CENTRAL ELECTION COMMISSION

A modern voting system cannot exist outside of remote access technologies with the highest level of control. Apart from tactical solutions (pandemics, epidemics), such a system also has strategic prospects, one of which is achieving ABSOLUTE user confidence in the results of voting at any level, from municipal and regional to federal and even interstate. Such a system excludes, among other things, an information war to discredit the people's choice in any situation.

ALTERNATIVE TASKS OF NATIONAL IMPORTANCE

«SAFE AND SMART CITY» PROJECT



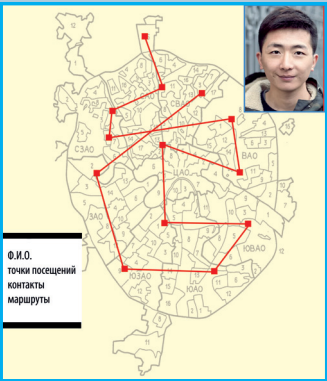
DISTANT IDENTIFICATION



MASK USAGE MONITORING



MOTION CONTROL



DISTANCE VOTING







TRANSPORT SAFETY



Based on the analysis of the video stream from cameras identifies potentially dangerous events, reconstructs the chronology of incidents and tracks vehicle routes



- The use of video fixing systems in the streets and on public transport allows:
- Transmit the information received to the centers for automatic registration of violations of traffic rules traffic violations.
 - Manage the logistics of public transport.
 - Control the city parking space.
 - Forecast the traffic situation in real time.

When ensuring transport safety APC «Safe City» relies on five main functional spectrums capabilities of the system:

- 1 Information and analytical assistance, methodological support and support for management decisions in the field of transport safety in the municipal district, municipal, urban district;
- 2 Assistance in organizing the monitoring of transport management and the transport system on the territory of the municipal district, municipality, city district;
- 3 Ensuring the collection and consolidation of information from transport security monitoring systems, traffic monitoring systems, traffic of passenger and special transport, urban services vehicles, transport infrastructure monitoring systems in municipal areas, municipal, urban districts;
- 4 Providing organizational and technical support regulation of traffic flows, through the use of tools of intelligent transport systems on the territory of the municipal district, municipality, urban district;
- 5 Providing organizational and technical support for informing and alerting road users about man-made, natural and biological and social threats, threats to public order on the territory of the municipal district, municipality, city district.

IN FACTS AND FIGURES

- Decrease in the number of traffic violations — by 30%
- Decrease in the number of accidents, including those involving children by 4 times — by 50%.
- Increase the average speed of vehicles — by 20%
- Decrease in depreciation of the roadway — by 20%
- Increase in the number of passengers on public transport — by 15%



TECHNOLOGICAL SUPPORT FOR TRANSPORT SAFETY

- Integration Service
- Transportation forecasting and modeling
- Configuration of control scenarios
- Traffic information
- Traffic management
- Parking management
- Video analytics
- Public transport traffic management
- Digital Road Twin
- Municipal Vehicle Management
- Providing information security
- Monitoring of transport system efficiency
- Computer Vision
- BIG DATA
- Distributed Data Processing
- Artificial Intelligence
- Neural network
- Microservices
- Service Billing
- Machine Learning
- Vehicle detectors of all types
- Photo-video fixation complexes
- Wi-Fi sniffers
- Locations of accidents and road network blockages
- Congestion of parking spaces
- Fines for wrong and unpaid parking
- Sensors of ecology installed on the street and road network
- Graph configuration data
- Traffic congestion on the road network
- GLONASS telemetry
- Geodata accurate within 2 meters
- Recognition objects database

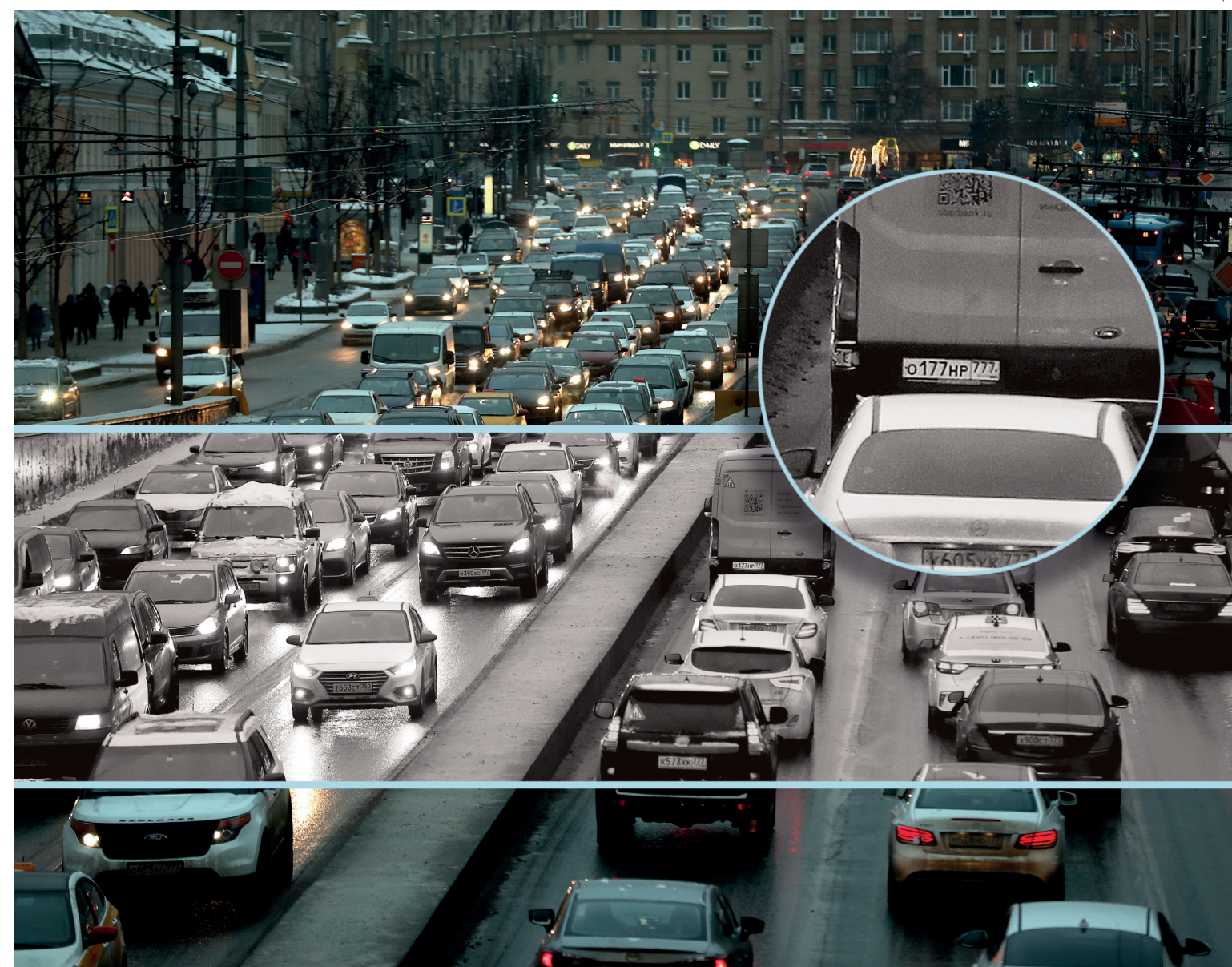
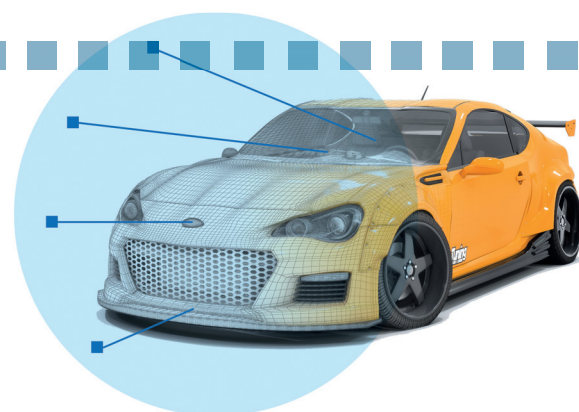
MODULES

TECHNOLOGIES

DATA



SYSTEM
FOR PHOTO-VIDEO FIXATION
OF VEHICLES — «WEB»





THE SPECIAL SOFTWARE «WEB» IS IMPLEMENTED IN 85 REGIONS OF THE RUSSIAN FEDERATION

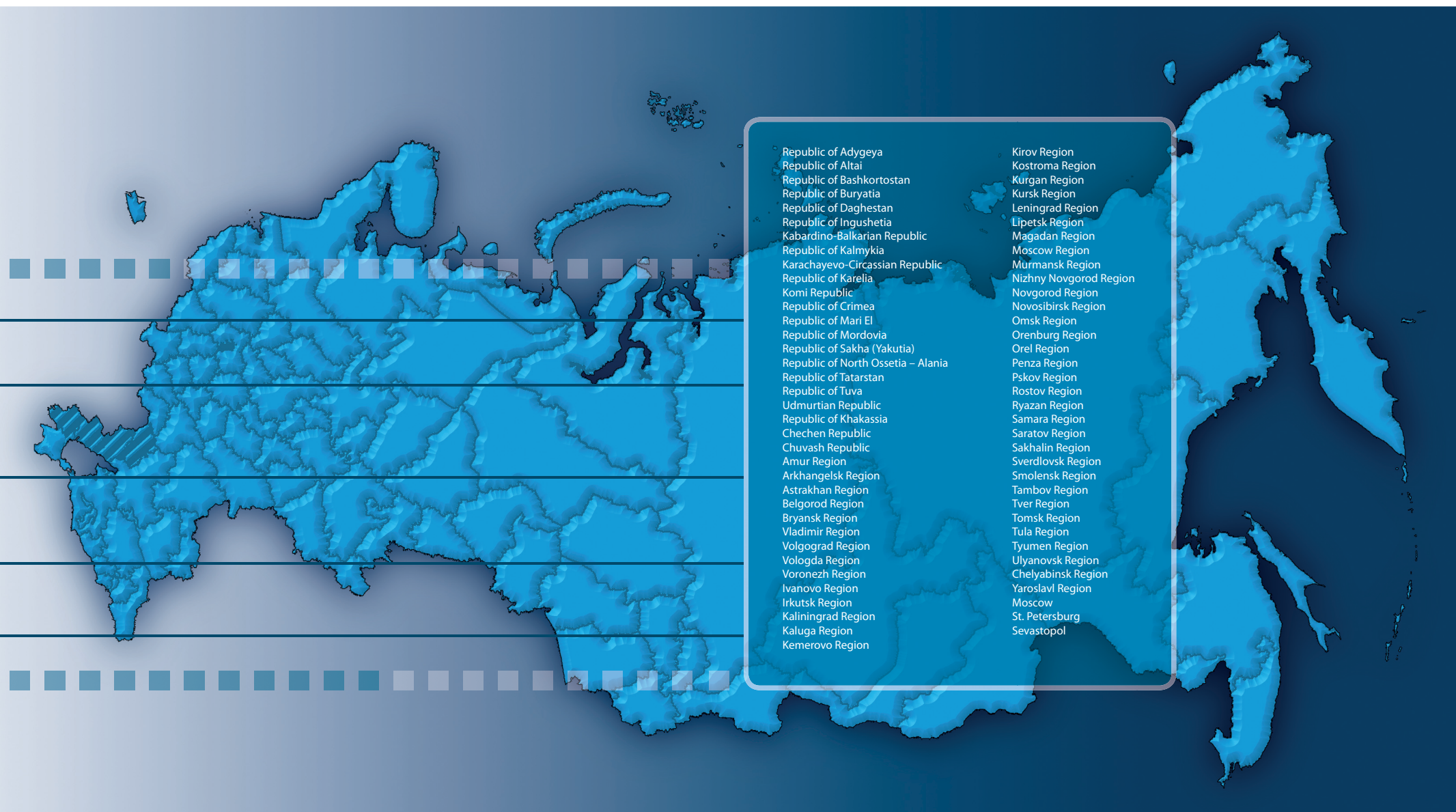
350,000,000 VEHICLE FIXATIONS PER DAY

40,000 VIDEO FIXATION SYSTEMS

14,000 ACTIVE USERS

11,000,000 REQUESTS PER DAY

1.500.000 USER REQUESTS PER DAY



Local administration

- Correspondence matrix
- Monitoring the performance of the VF means
- Detection of anomalies in the work of military equipment
- Traffic statistics
- Improving the quality of transport infrastructure while filling the budget

Federal Security Services

- Covert surveillance of the vehicle
- ANTI-TERRORIST SECURITY**
- New opportunities for operational and investigative activities



Criminal police

PUBLIC SAFETY ENSURING

- Retrospective analysis of vehicle movements
- Detection of anomalies in the movement of the vehicle
- Calculation of stable routes, places of attraction, places of residence and jobs
- Analysis of reciprocal movement of several vehicles
- Cellular networks tracking
- Detection of an object for tracking or stalking



TASKS TO BE SOLVED

CONTROLLING THE TERRORIST THREAT

IDENTIFYING, ANALYZING AND MONITORING SECURITY THREATS

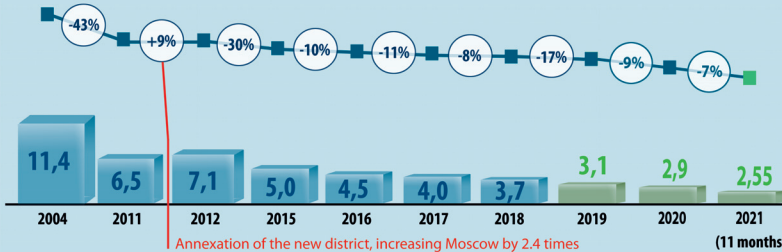
EFFECTIVENESS ASSESSMENT OF PERFORMANCE OF FEDERAL EXECUTIVE SERVICES IN THE FIELD OF SECURITY PROVIDING

STRENGTHENING THE PRINCIPLE INEVITABILITY OF PUNISHMENT

- Prevention and avoidance of administrative offenses
- Increase in the solvability of criminal offenses

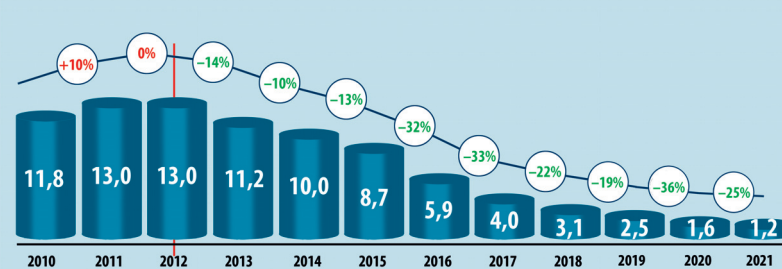
REDUCTION OF MORTALITY

SOCIAL RISK, pers. (number of traffic fatalities per 100,000 inhabitants)



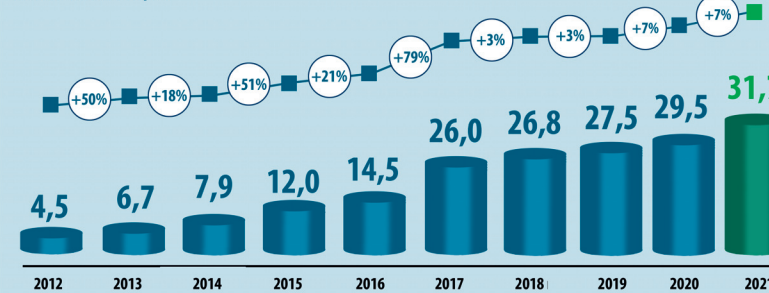
DECREASE IN CAR THEFTS

THEFTS AND HIJACKS, thousands



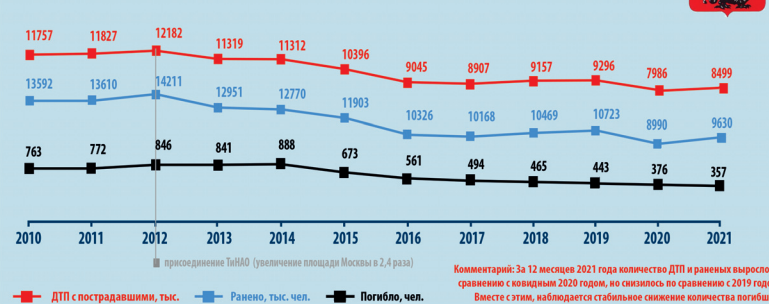
BUDGET FILLING

FILLING THE BUDGET

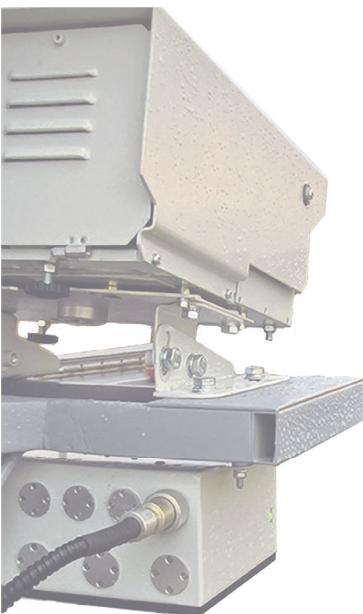


ACCIDENT REDUCTION

ПОКАЗАТЕЛИ АВАРИЙНОСТИ ПО МОСКВЕ



IMPLEMENTATION EFFECT



«WEB»

SYSTEM OF PHOTO-VIDEO FIXATION OF VEHICLES «WEB»

«SAFE AND SMART CITY» PROJECT

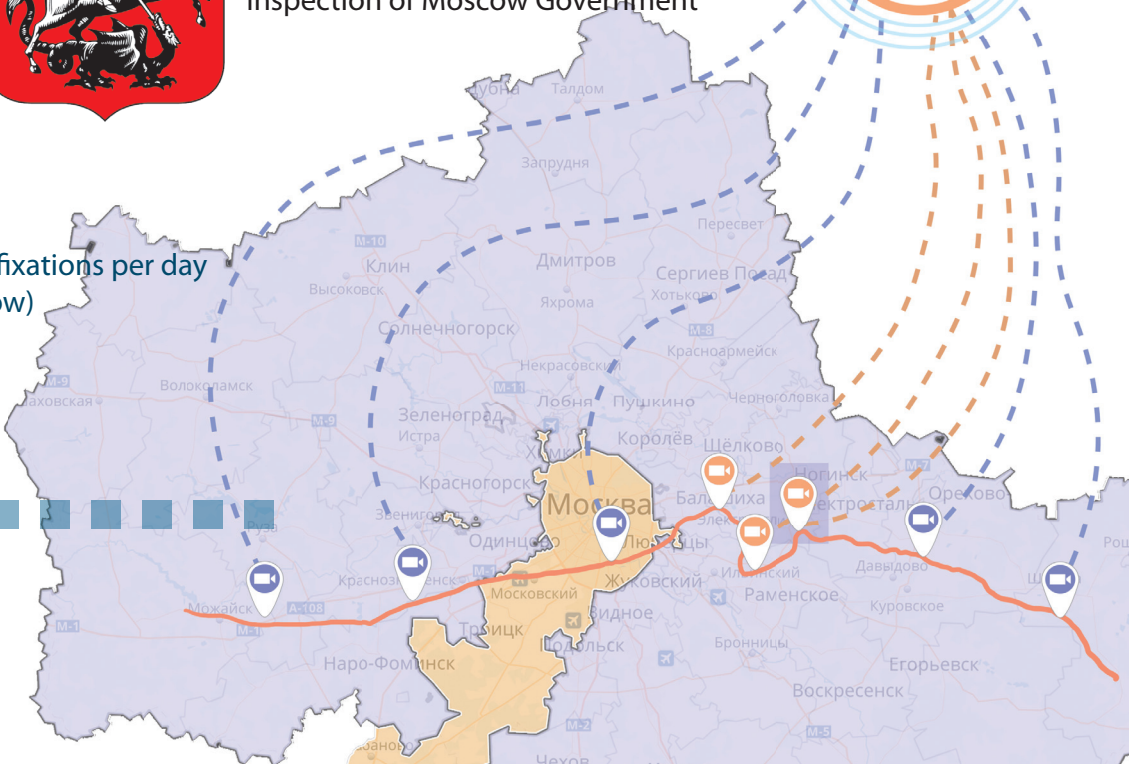


Unified Software for
Automation of the Activity
of the Ministry of Internal Affairs of Russia,
Parking Department and Moscow traffic
inspection of Moscow Government



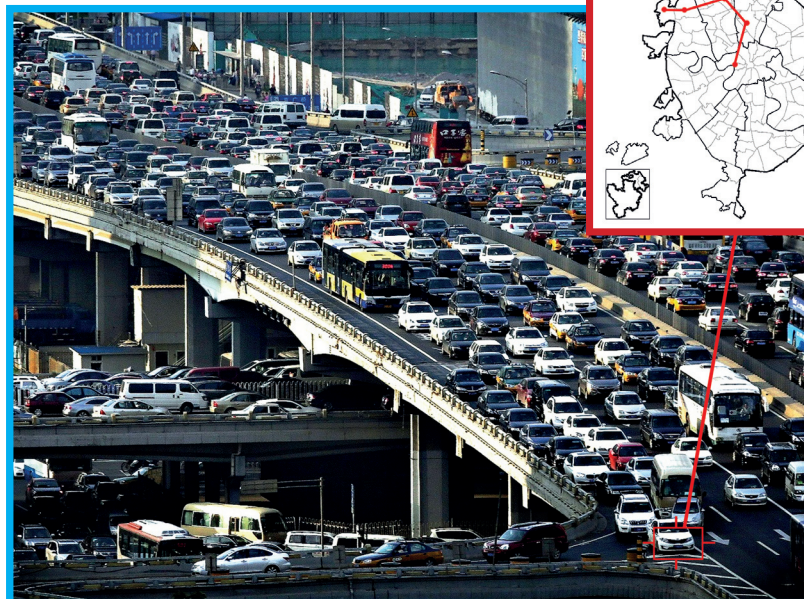
KEY FEATURES:

1. Productivity
(hundreds of millions of fixations per day
on the territory of Moscow)
2. Continuity
functioning
24x7x365 (99.99%)



- ### 3. Information Security (OpenSource, certification for the 4th level of trust)

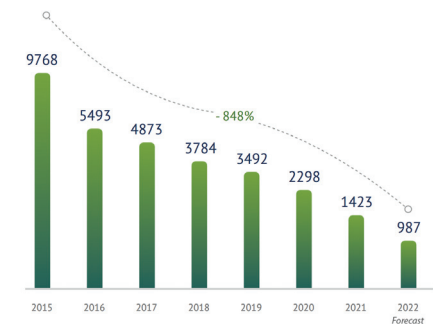
Cross-cutting vehicle search system of Ministry of Internal Affairs of Russia



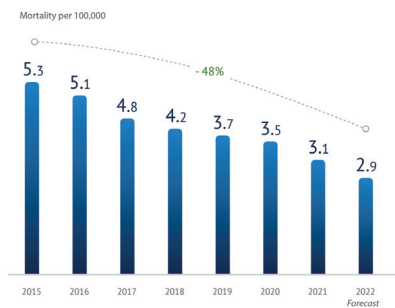
SYSTEM IMPLEMENTATION EFFECT



Created for the Moscow Metro software system since September 2020 has helped to identify more than 5 thousand people who are wanted and find more than 600 missing people



In 7 years, the number of thefts and vehicle thefts has been reduced 8-fold thanks to the vehicle tracking systems developed by StandardProject



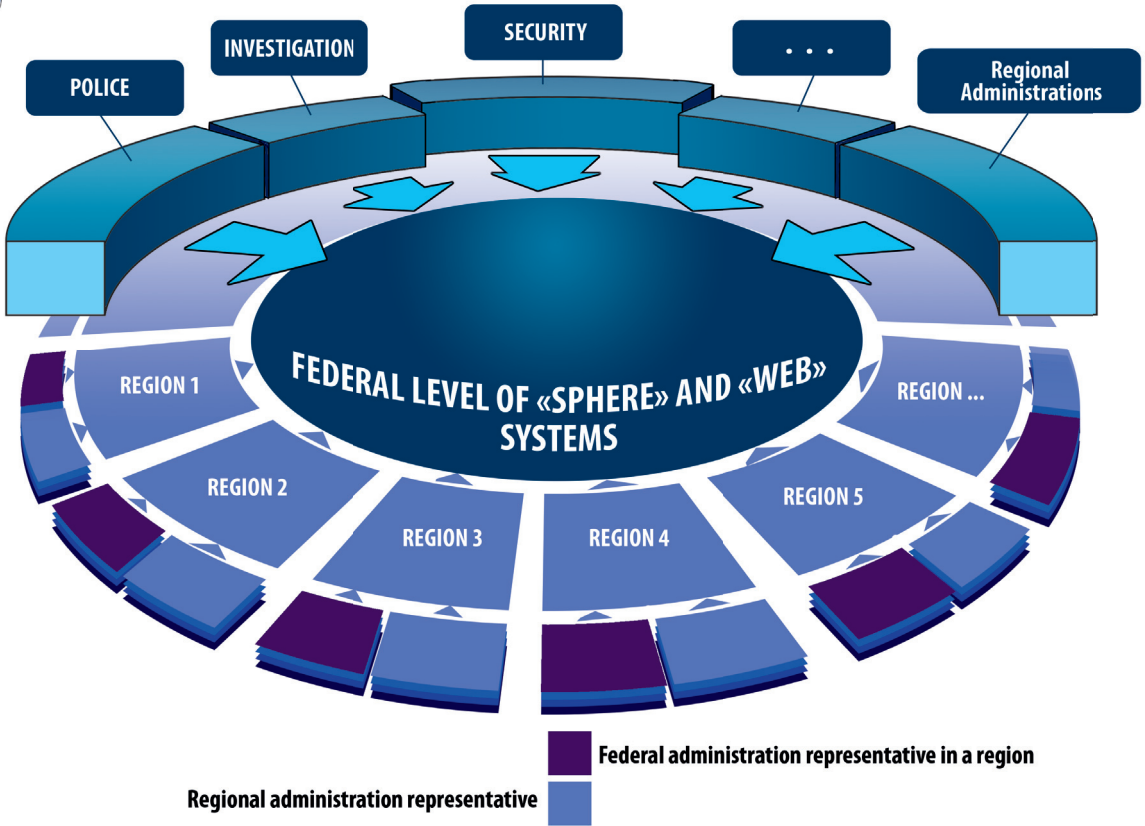
Thanks to an increase in driving culture due to the widespread use of automatic recording of offenses for 7 years in Moscow and the Moscow region decreased the death rate on the roads by 48%.

Business and technological partner of the leading Russian companies, government agencies and special services.

For more than 20 years, products of our production team have been successfully used in the areas of transport and public safety.

Thanks to technological solutions from StandardProject in Moscow and Moscow region alone, hundreds of traffic offenses are prevented every day and dozens of people from law enforcement search databases are discovered.

SYSTEM DEVELOPMENT PROSPECTS





Nibe Business Services

Contact us

Tel.: +966 920022526

Mobile: +966 504488547

Website: www.nibe.sa

Email: m.jabbar@nibe.sa

Address: 7167 Prince Turki Bin Abdulaziz Althani St, Al Muruj,
2666, Riyadh 12283, Kingdom of Saudi Arabia



NIBE

BUSINESS SERVICES