



MT-ИНТЕГРАЦИЯ

Portfolio of digital solutions for UAE

«MT-Integration» Group of Companies

2026



A Russian full-cycle system integrator

More than 150 solutions and 1,000 users, an accredited IT company

We act as an architect and integrator in the implementation of complex infrastructure IT projects, based on advanced digital products

 Urban economy

 Transport and logistics

 Industry

 FMCG

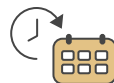
 Mining

 Mechanical Engineering



Partner of industrial enterprises

More than 40 large government contracts for the state and industrial enterprises



More than 25 years

Our team creates digital services and implements IT projects for business and government



Professionals

1,500+ IT and engineering systems specialists, certified by hardware and software manufacturers



24 billion ₺

Group revenue for 2024.



Built relationships in the market

Partnership Agreements with major hardware and software vendors that provide flexibility in choosing the target solution depending on the specifics of the client's activity

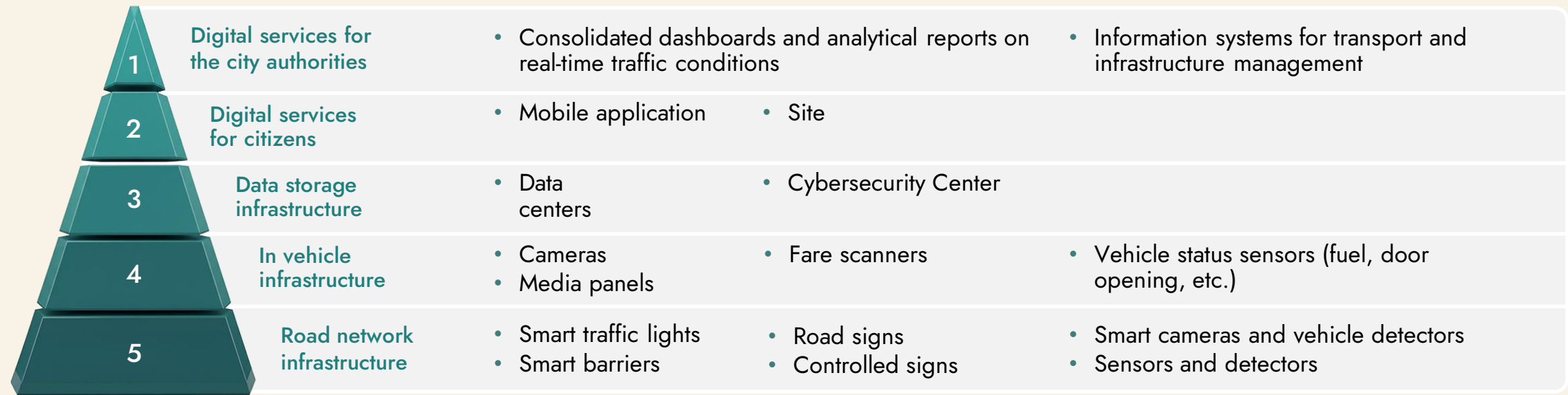


A Single Partner for Digital transformation

We provide a full range of services for the Digital Transformation of Industrial Enterprises: Audit – Strategy – Business Process Development – implementation of automation and digitalization tools

Digital smart city architecture

KEY COMPONENTS



THE IMPLEMENTATION OF ITS – A DIGITAL TWIN OF THE TRANSPORT SYSTEM, ALLOWS TO IMPLEMENT



Real-time monitoring and management of traffic conditions



Reduce accident rates



Provide information about transport to citizens



Increase the profitability of the city transportation system

Roadmap for Urban Transport Digital Transformation

Phase 1

Digital Foundation:

- CCTV & intelligent video surveillance
- Traffic monitoring cameras
- Situation center
- Cybersecurity
- Data centers & infrastructure
- Communication systems

Phase 2

Smart Urban Mobility:

- Dispatching systems
- Passenger mobile application
- Parking space management
- Smart Bus platform
- Passenger flow analytics
- Metro (High speed tram)

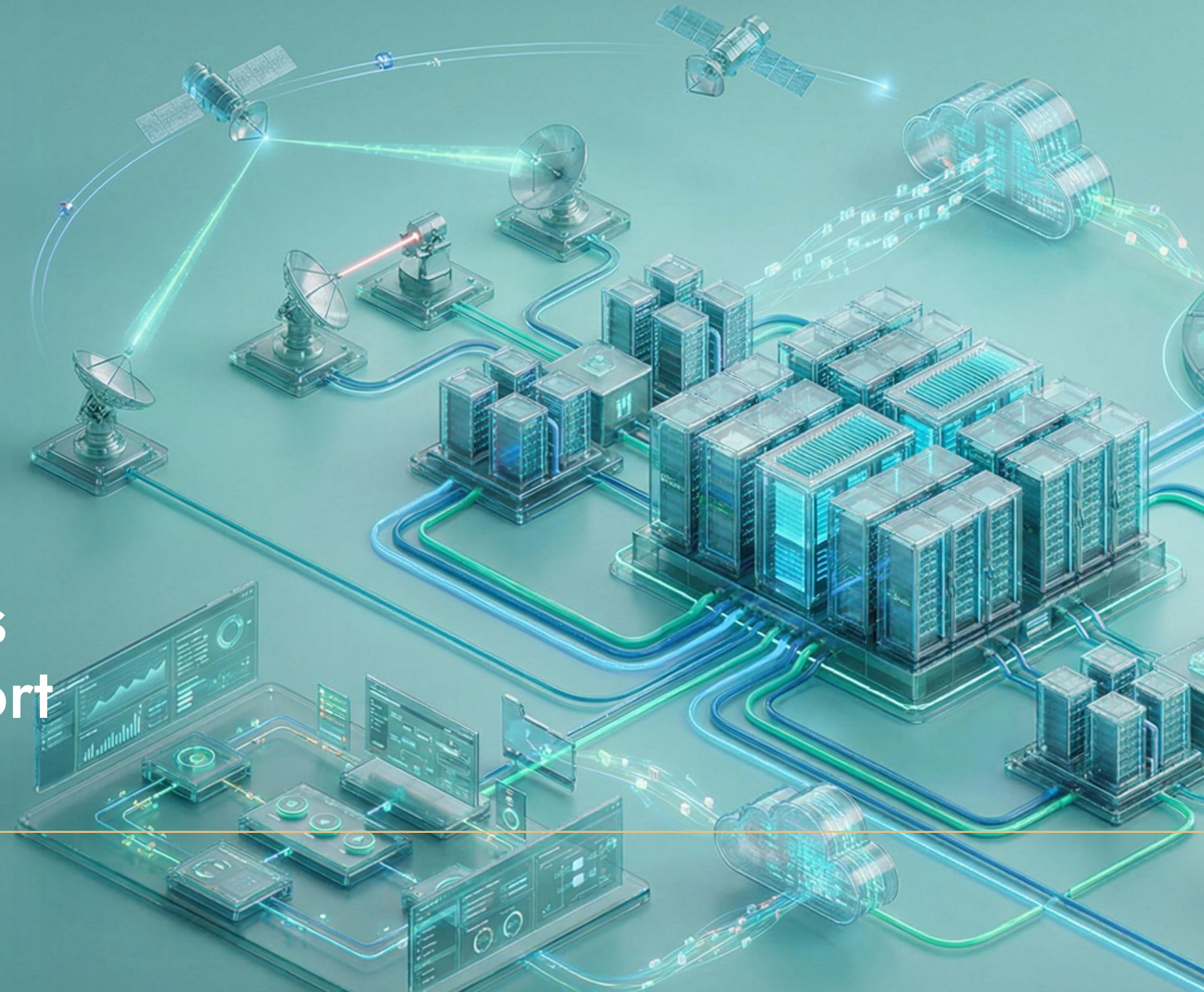
Phase 3

AI-driven Transport Ecosystem:

- Face recognition
- Object detection & classification
- Driver monitoring systems
- Predictive analytics
- Integrated multimodal platform

The roadmap follows a unified digital transformation approach — from foundational infrastructure and data collection to intelligent mobility services and AI-driven transport management.
This phased implementation enables the gradual development of an integrated, scalable, and data-driven urban transport ecosystem

Shared services Ground transport



1.1 Photo and video recording violations of road traffic rules violations



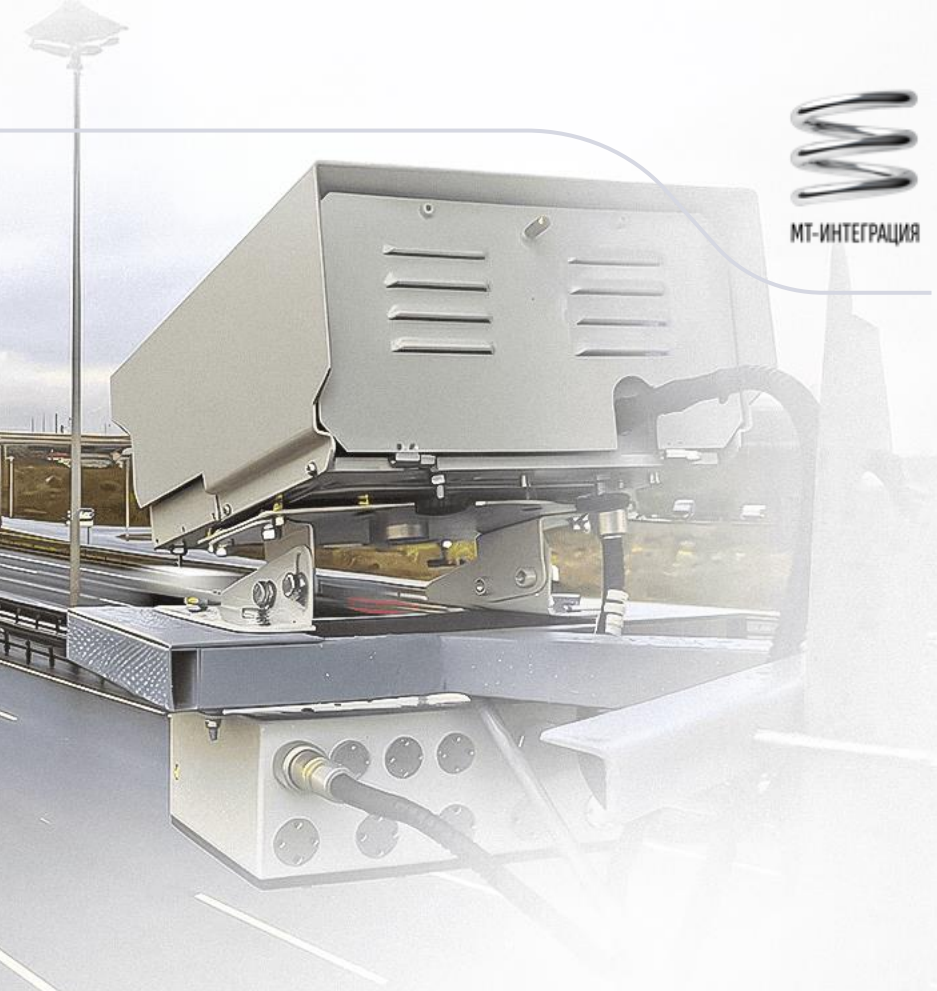
Equipping key roads with photo and video cameras according to the service model (life cycle contract model)



Connection of cameras to the special system for operational search of vehicles and control of vehicle movements



Collection of fines for traffic violations (speed control, driving through a red light, violation of markings, violations of the stop line, etc.)



EFFECT

1 Improving safety by reducing traffic violations and vehicle traceability

2 Collection of revenues from fines to replenish the budget of the region

1.2 Dispatching system for urban ground transport



Ground transport dispatching – route guidance, planning, control of transport work



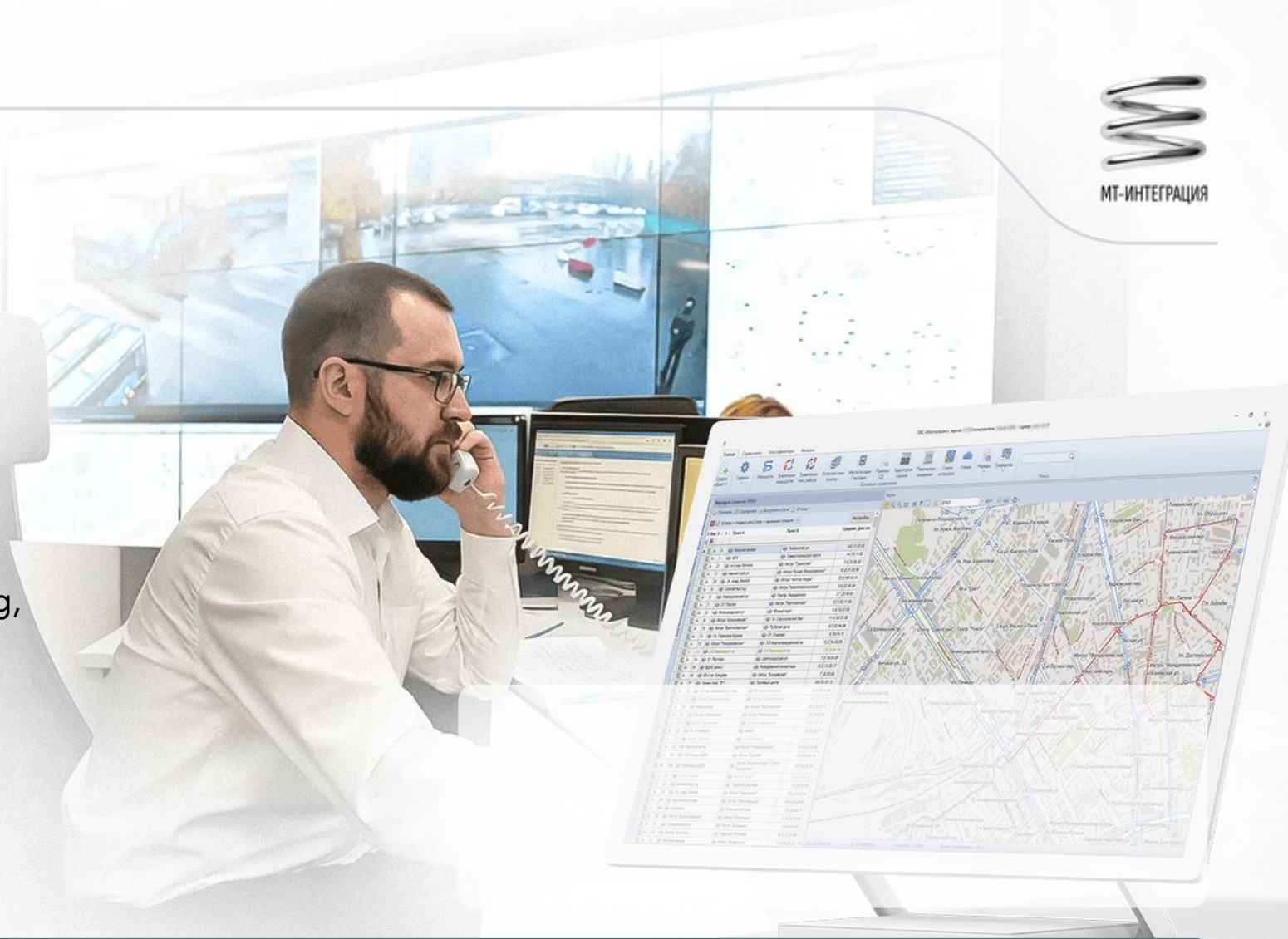
Real-time vehicle monitoring



Remote connection to systems of video surveillance, passenger counting, fare collections



Possibility of adding expansion systems — face recognition, driving quality control and other



EFFECT

Reducing fleet operating costs, improving transportation efficiency, and increasing ticket revenue collection

1.3 Situation center for transport management



Creation of a situation center for managing the traffic situation.

Incident management system — monitoring and detection of accidents, congestion, infrastructure accidents, prioritization of incidents, control of the incident response business processes



Control: CCTV cameras, traffic lights, traffic jam and congestion monitoring, public transport monitoring



A system for receiving and processing applications and appeals from citizens with integration with the work of services

EFFECT

Improving the efficiency of road transport infrastructure and ground transport
Improving the comfort and safety of citizens

1.4 Organization of parking space



Creation of infrastructure for parking space - a parking collections system, barriers with "white lists" for ambulances, police and other special services, mobile parking control workplaces

EFFECT

Unloading of streets - increasing the speed of vehicles on the streets by 25%, creating courtyard and guarded public parking zones with resident permits

1.5 Passenger Mobile Application and Portal

-  Route Planning: building multimodal routes using public transport, walking, bicycles, or scooters
-  Real-Time Transport Tracking: monitoring public transport arrival times and viewing tram and bus occupancy levels
-  Transport Cards: linking transport cards, checking balance, and top-up functionality
-  Payments and Booking: ticket purchasing and parking payment services
-  Personal Account: storage of personal data, favorite locations, and saved routes

The mobile application is a universal urban mobility platform that enables users to build multimodal routes, track public transport in real time, pay for parking, book car-sharing and scooters, as well as link and top up transport cards

1.6 Creation of a cybersecurity center



Creation of a center for detecting cyber threats and preventing cyberattacks on critical infrastructure — monitoring network traffic, detecting intrusions, ensuring perimeter network protection, implementing a control system



Integration with external IT systems

COMPOSITION OF THE SOLUTION



System response



Threat Hunting platform



Data Loss Prevention system



SIEM with IRP integration



Information management system about cyber threats



PT NAD System for behavioral analysis of network traffic

EFFECT

Ensuring the protection of critical information infrastructure against cyberattacks, vulnerability identification



1.7 Design and construction of data centers

APPLICATION

Quickly deployable infrastructure to ensure and support the functioning of the organization's information and digital systems

COMPOSITION OF THE SOLUTION

- Data Center Engineering Systems
- Billing system
- Secure communication channels
- Flexible selection server capacity
- Service desk
- Enterprise storage
- Corporate Wi-Fi
- Corporate email
- Remote workplaces
- Monitoring the work of employees



Reduce IT operational costs

Collateral
technological sovereignty

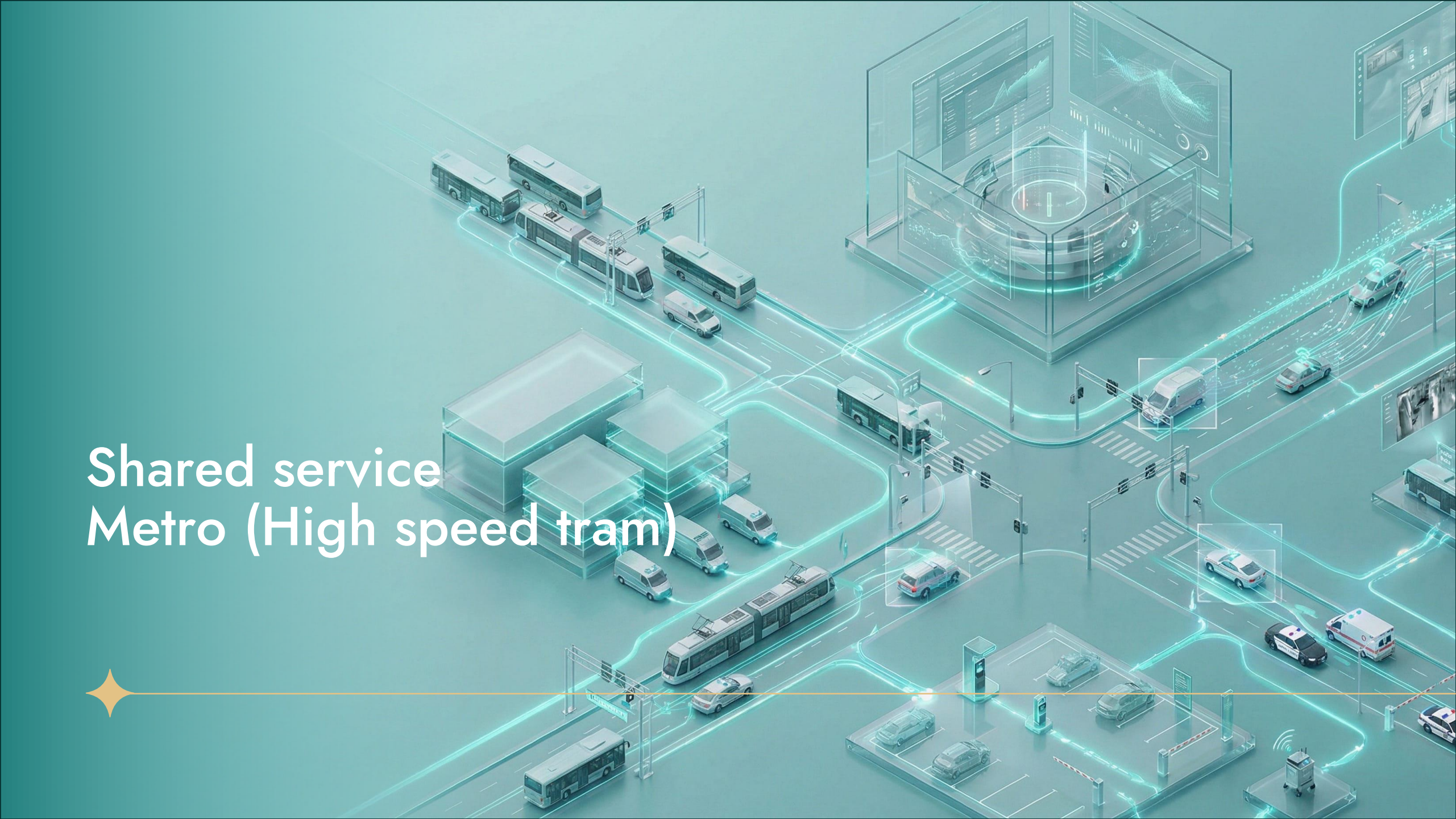


MT-Integration Group of Companies is the executor of projects for the implementation of the largest data processing centers in the Moscow Metro State Unitary Enterprise, the Department of Information Technology of Moscow, and the data center of the Moscow Traffic Management Center

EFFECTS

1 Centralization of infrastructure computing power

2 Uninterrupted operation of the organization's information and digital systems

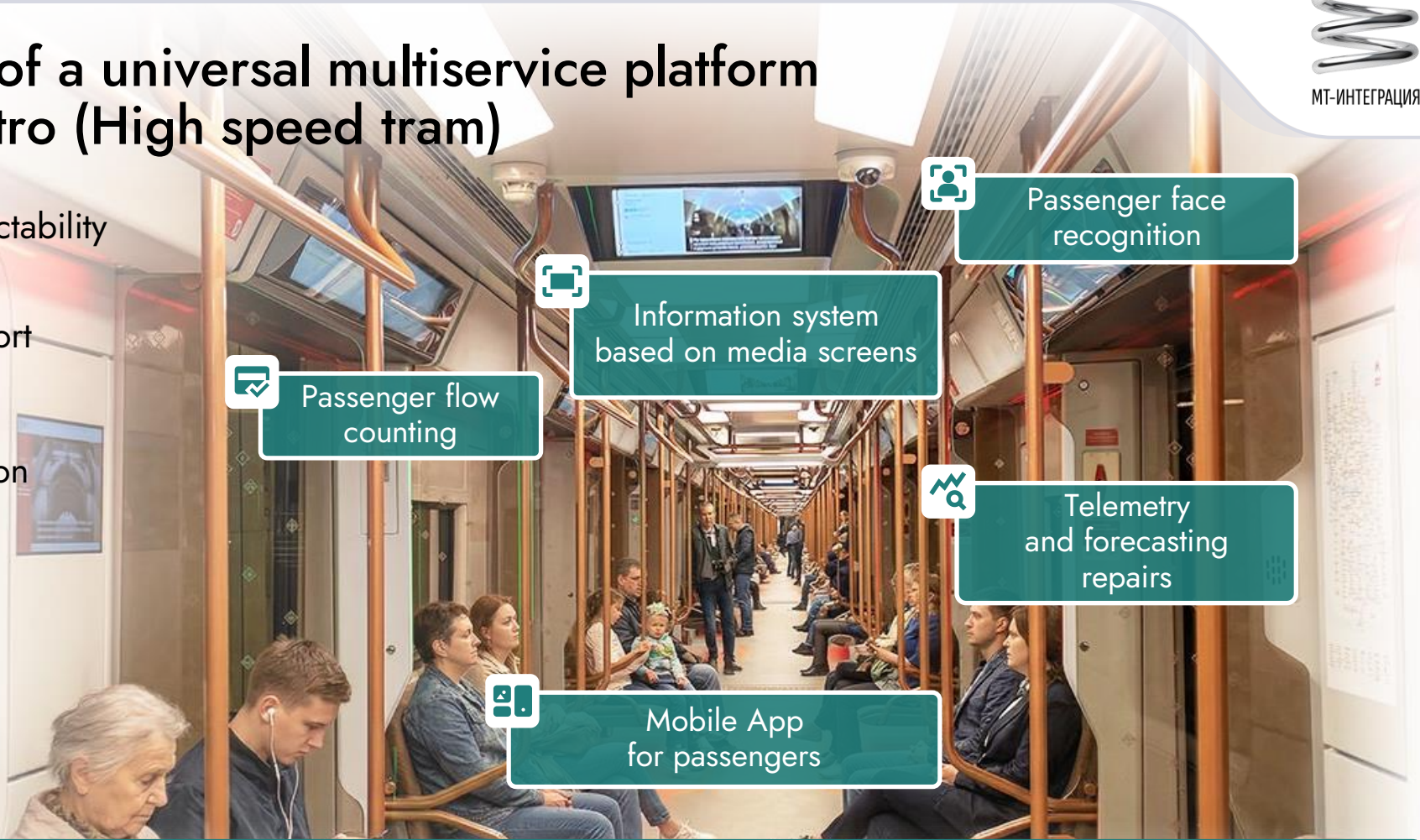


Shared service Metro (High speed tram)



2.1 Key components of a universal multiservice platform for use in the Metro (High speed tram)

-  Improving safety and predictability of transportation
-  Improving passenger comfort
-  Increasing revenue collection



EFFECT

The platform is implemented both fully and in the form of separate most relevant modules

2.2 Arrival prediction system

Improving passenger flow management during rush hour



Calculates train movement statistics by destination



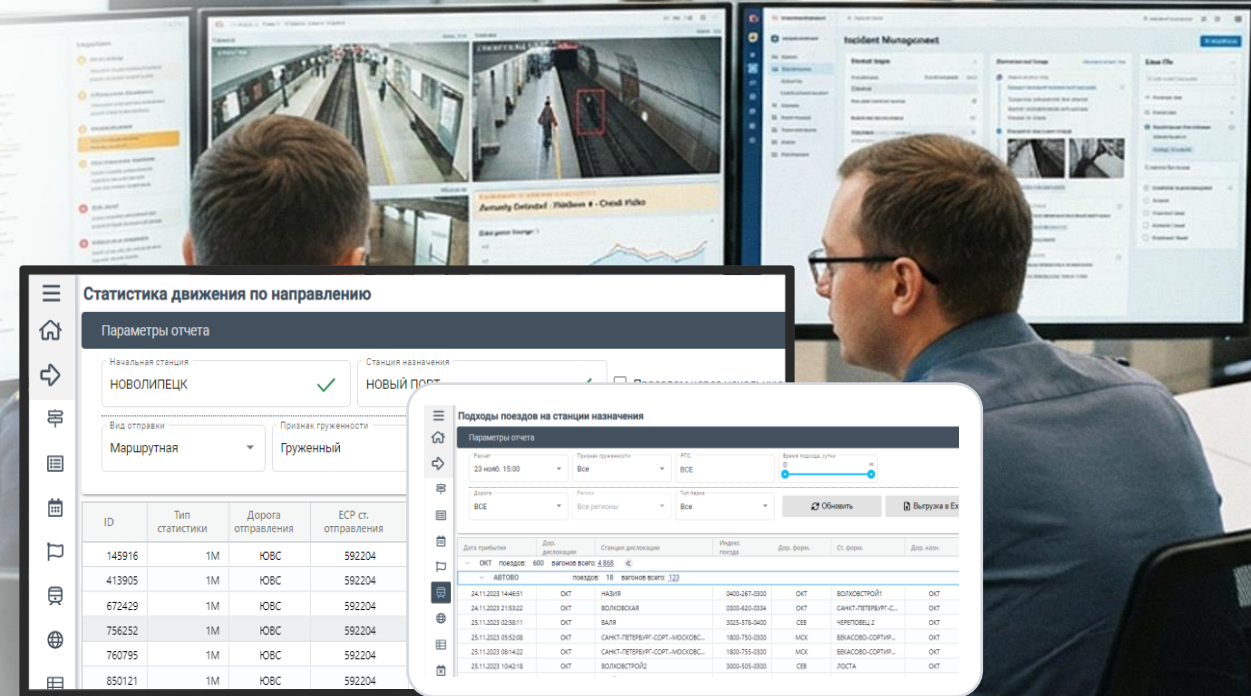
Generates information about train arrivals at destination stations and forecasts arrival times



Serves as the basis for operational train movement planning and a source of data for planning and dispatching systems



Sends information about train arrival forecasts to responsible departments and employees



EFFECT

Increasing the accuracy of train traffic during rush hours

2.3 Situation center for transport management



Creation of a situation center for Metro (High speed tram) management.

Incident management system – monitoring and identifying critical incidents, infrastructure emergencies, prioritizing incidents, and monitoring the incident response business process



Monitoring: CCTV cameras, monitoring the work of various High speed Tram services



System for receiving and processing citizen requests and appeals, integrated with services



EFFECT

Improving the efficiency of the High speed Tram infrastructure
Improving the comfort and safety of citizens

2.4 Metro dispatching system

-  Underground transport dispatching – route deployment, planning, and control of transport operations
-  Real-time transport monitoring
-  Remote connection to video surveillance systems, passenger counting, and incident management
-  Possibility of further system expansion – facial recognition, traffic quality control, and more

EFFECT

Reducing fleet operating costs and increasing transportation efficiency



All-in-one multi-service platform

Ground transport



3.1 «Smart Bus»

All-in-one multi-service platform



Improving transport safety

- Video surveillance, face recognition, surround view system
- Passenger flow counting
- Telemetry and repair forecasting
- Driving quality control



Increasing passenger comfort

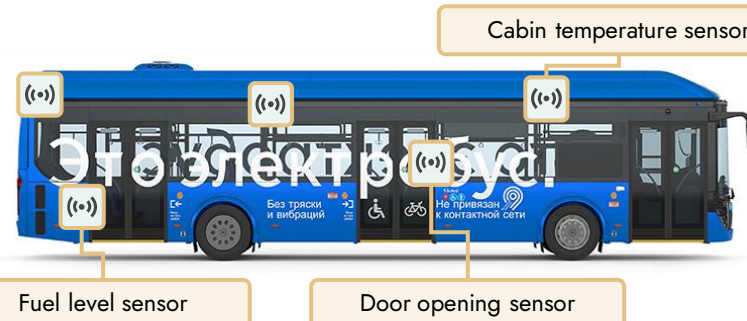
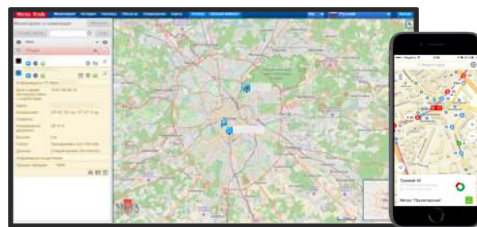
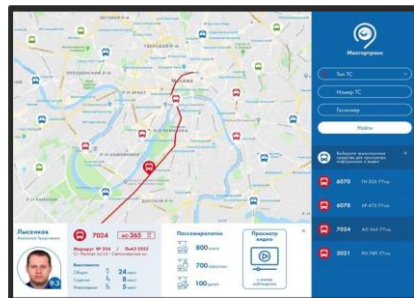
- Free high-speed Wi-Fi
- Apple/Google Pay contactless fare payment
- Information system based on media screens, LED displays and loudspeakers



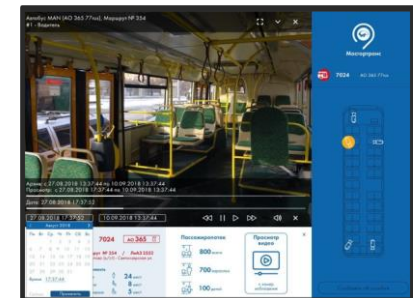
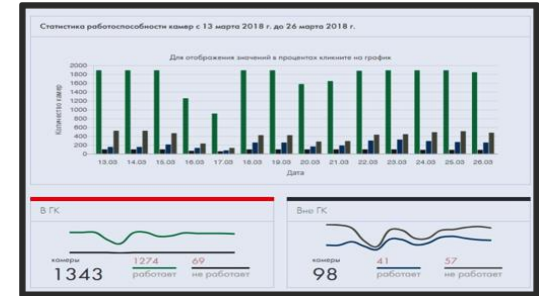
Increasing revenue collection

- Collection and transmission of data on the number of free riders
- Mobile app for controllers with the display of fare dodgers on the route

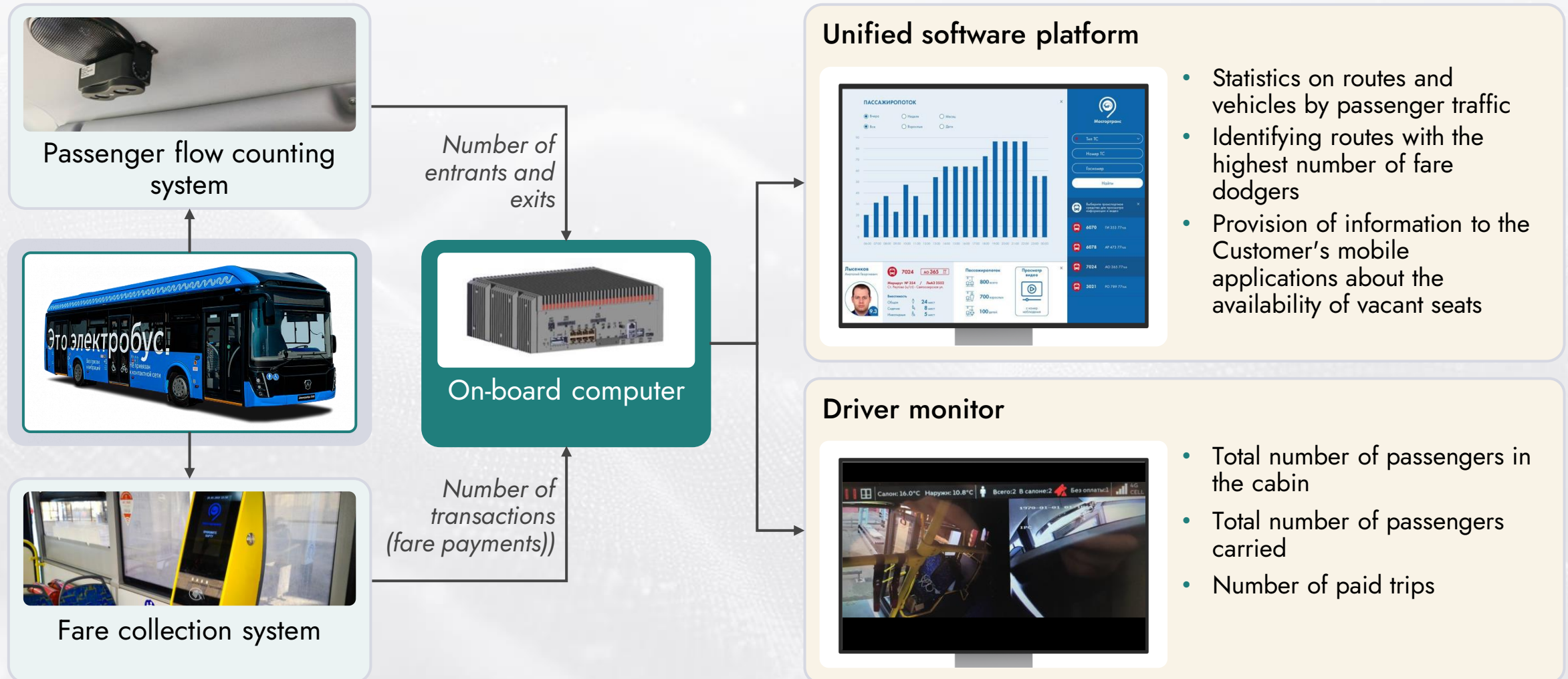
3.2 All-in-one multi-service platform



1. Live viewing of video from cameras in a vehicle
2. Saving video fragments from vehicle cameras and working with video archives
3. Online map with vehicle location
4. Passenger Counting
5. Viewing alarm events and received data from sensors in the vehicle
6. Media Content Delivery & Management
7. Assessment of driving quality and compliance with the schedule & guidelines
8. Data collection and analysis of vehicle API load for external systems (mobile applications and others)



3.3 Capabilities of the passenger flow counting system

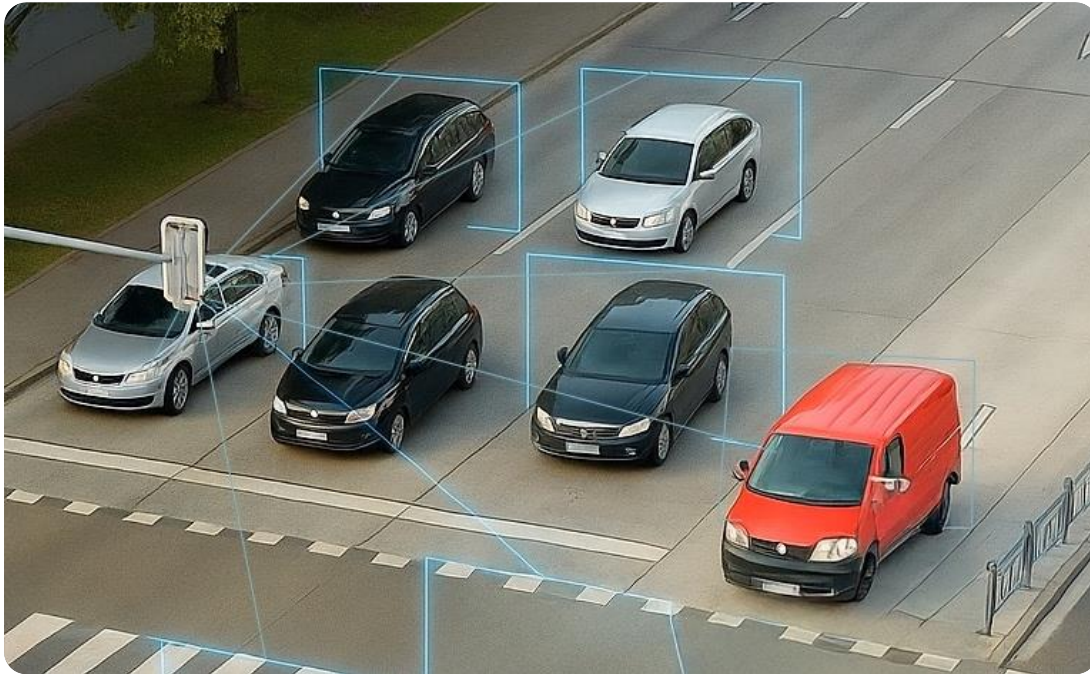




Object detection and classification system

Ground transport

4.1 AI driven system

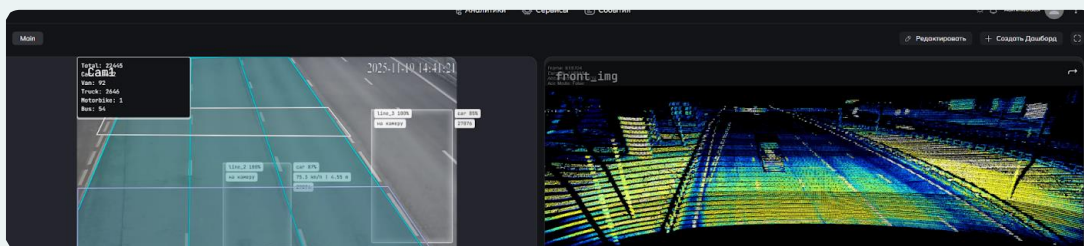


Solution composition

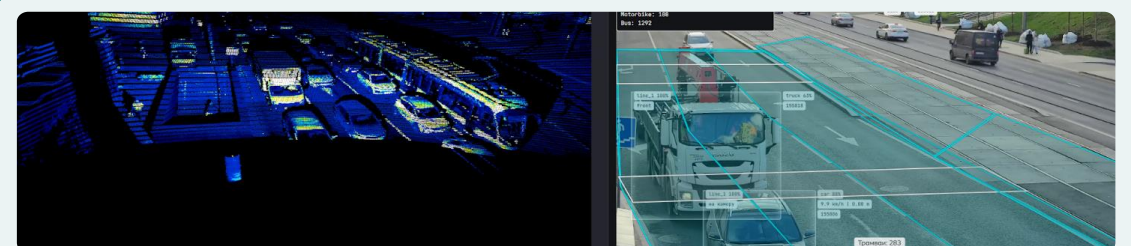
- ① Lidar ② Camera ③ EDGE Computer

System functionality

- ✓ Data collection and processing with the formation of statistics separately for lidar and camera
 - Number and type of object (car, minivan, truck, bus, SIM, person)
 - Travel speed
 - Lane separation
- ❖ Integration with the customer's IS



North-Eastern Chord



The intersection of Krasnoprudnaya Street and the Third Ring Road

4.1 AI driven system

Results of the pilot project (based on sample vehicles)

Checking the operation of the lidar system

According to the results of manual verification of the accuracy of the Lidar complex

Accuracy of determining the number of vehicles *North-Eastern Chord* (good weather conditions)



Camera 96% (230/238)



Lidar 90% (215/238)

Accuracy of determining the number of vehicles at the intersection (night-snow)



Camera 50% (387/258)



Lidar 92% (237/258)

Вывод

- 1 The lidar system provides a determination accuracy of more than 90% regardless of weather conditions and time of day
- 2 For the operation of the system, low-speed communication channels are enough, data processing takes place locally





Security solutions



5.1 Unified system for intelligent video surveillance

-  Equipping: vehicles, lobbies, other infrastructure of the Metro, ground infrastructure, roads, intersections, etc. (starting from critical areas that require special control) by surveillance cameras
-  Organization services integrations - from law enforcement agencies with priority access and the ability to block records, ending with utilities
-  Unified portal for the access to the system of video surveillance in the Metro, ground infrastructure for responsible services
-  Intelligent video surveillance: monitoring of civil safety and emergencies, search for people, etc.



EFFECT

Improving the safety of citizens, increasing the speed of response to incidents

5.2 Face recognition system



Implementation of the face recognition platform with the connection of video cameras with AI placed on components of transport and urban Infrastructure



Integration with federal search databases



Single Access Portal and mobile app for employees of the Ministry of Internal Affairs



Possibility of contactless passage through turnstiles

EFFECT

Improving the safety of citizens, identifying suspects and potentially dangerous persons

5.3 Antisleep AI driver fatigue monitoring system

Ensuring full monitoring of the driver's activities and control of the degree of his fatigue for driving safety by equipping the cabine with technological devices (cameras, sensors, microphones)

Principle of operation

		 Tracking behind the pupils			 Recognition- mobile phone conversation
		 Recognition- smoking			 Distracting from the current route

EFFECT

In the event of an emergency, the system gives a warning to the driver and sends alarm signals to the operator's console online

TSN Radio Ethernet



High-speed Radio Ethernet “Ground-to-vehicle” communication network for implementation on high-speed highways

Implementation of a fully tested and certified TSN (Transport side network) Radio Ethernet communications network on high-speed rail lines and other highways to ensure access to passenger and technology services along the entire route

PARAMETERS

>1 Gb/s

Network
bandwidth

до 400 km/h

Guaranteed speed of
work

low 20 m/s

Low signal latency

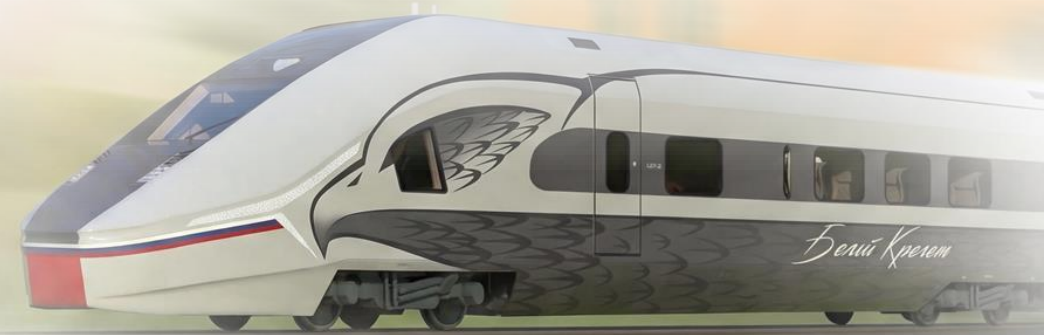
ADVANTAGES



Proven technology at the Russian Railways test site, the October Railway, and in the Moscow and St. Petersburg metros



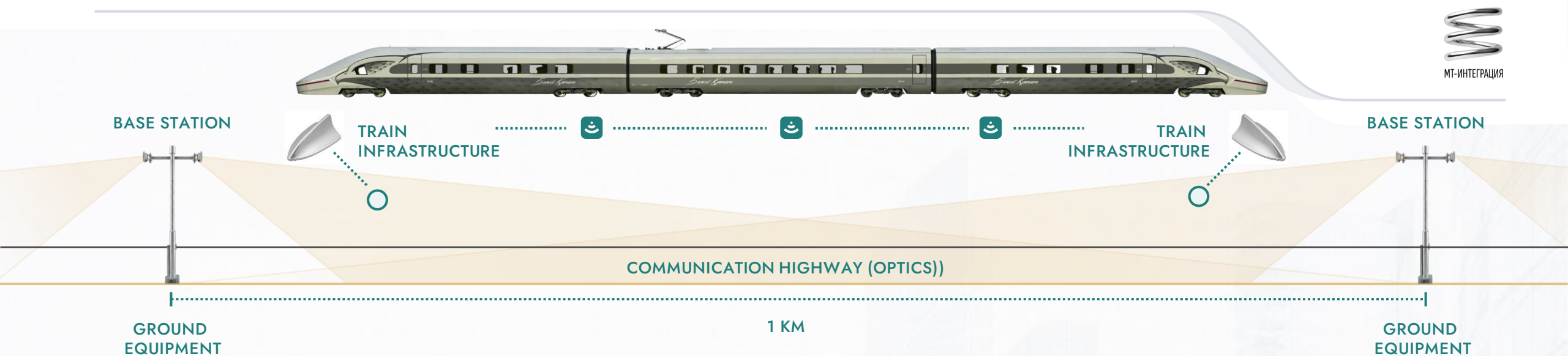
Radio Ethernet is not subject to interference and bandwidth limitations, like other solutions, such as satellite



1 Voice cellular communication along the entire route

2 A seamlessly operating passenger information system

3 New monetization service — a “mobile office” for business travelers



Train infrastructure

- Communications equipment onboard the train (in the head cars)
- Train data transmission line
- Train Wi-Fi subscriber equipment
- Base stations for mobile communications (femtocells/picocells)
- Other equipment (information security, infotainment)

Ground infrastructure

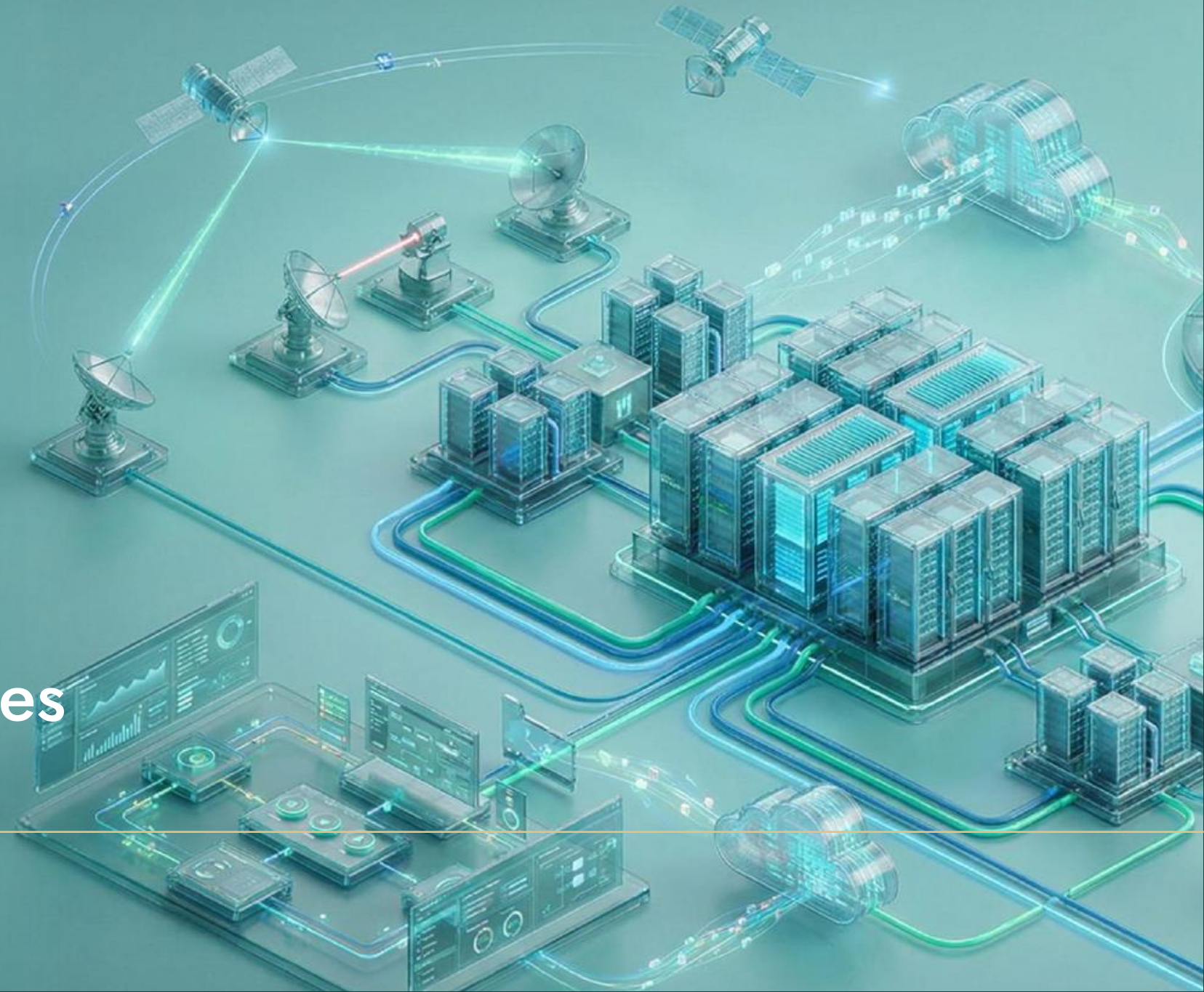
- A network of base stations deployed along the railway track
- Ground data transmission backbone
- Power supply equipment
- Information security equipment
- Interface with backbone data transmission networks

IMPLEMENTATION REQUIREMENTS

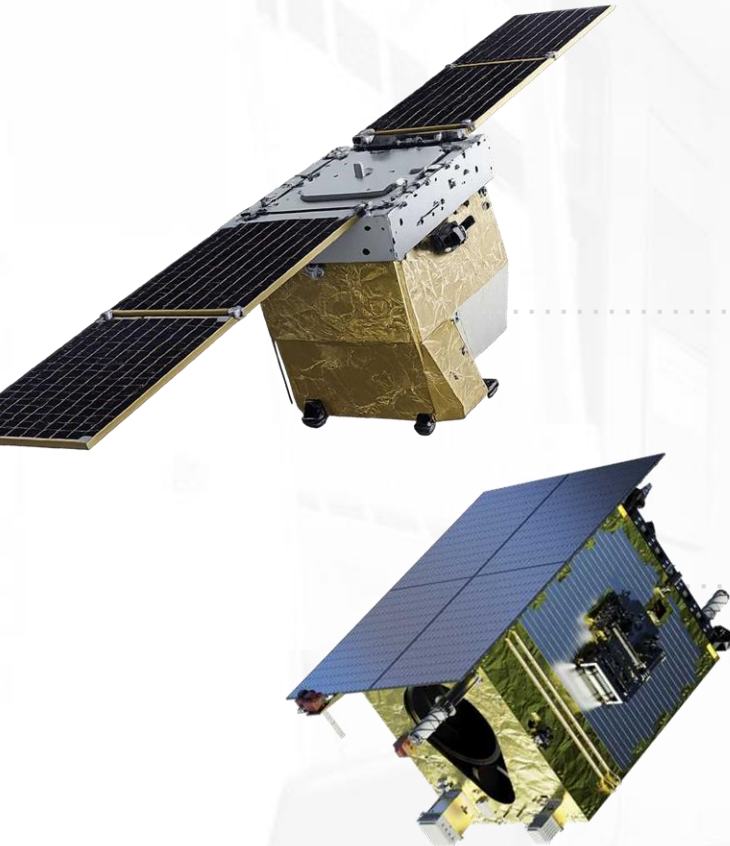
- 1 The correct choice of radio communication technology, providing a stable "train-to-ground" channel with specified characteristics
- 2 Precise radio planning to ensure reliable continuous train-to-ground radio communications - ensuring continuous high-quality coverage of the test sites
- 3 Balancing the head-to-tail data flow in a train trunk line to ensure high quality of the subscriber-to-ground connection

Section 7

Space Technologies



MT-LAB Space system



1 «KA-150» Satellite

150 km imaging swath width, spatial resolution (GSD): 1,0 m and 0,5 m

- High-resolution optical Earth observation
- Imaging capacity exceeding 1 million km² per day
- Operational readiness: 2026

2 «KOEN» Satellite

GSD: 0,5 m

- High-resolution optical Earth observation
- Launch date: September 2, 2026

3 «EOS-O» Satellite

GSD: 0,5 m

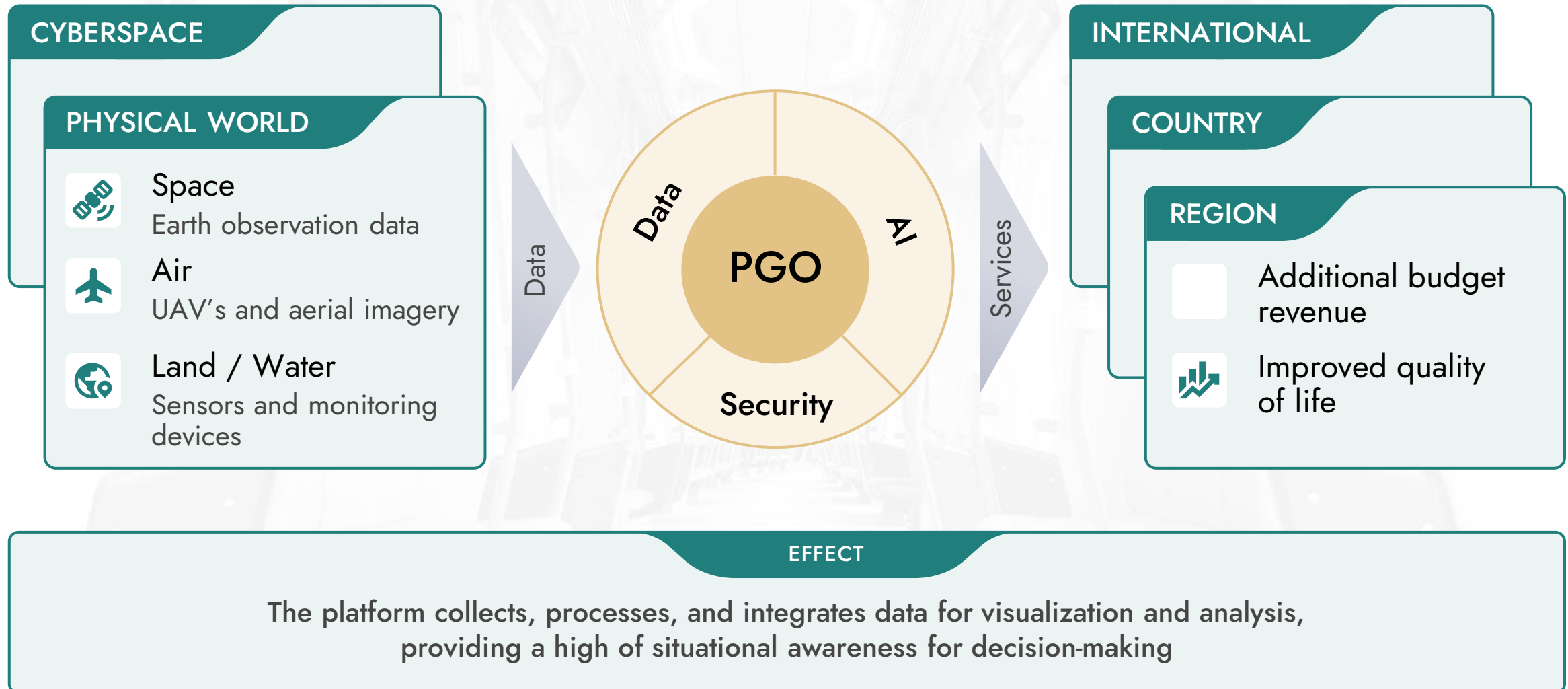
- High-resolution optical Earth observation
- Launch date: Q2, 2027



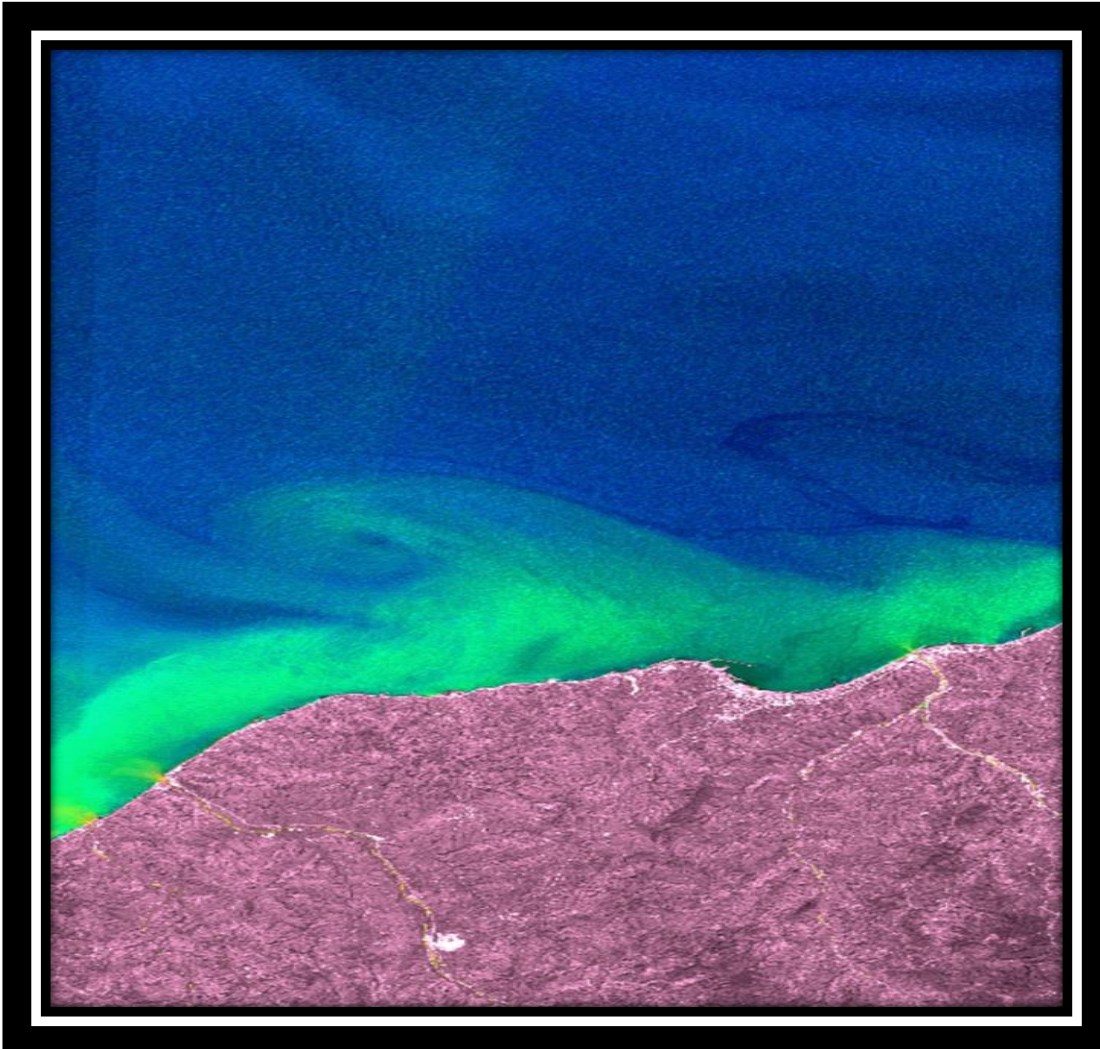
EFFECT

The orbital segment of the MT-LAB space system is being formed by satellites with unique capabilities, enabling a wide range of Earth observation applications

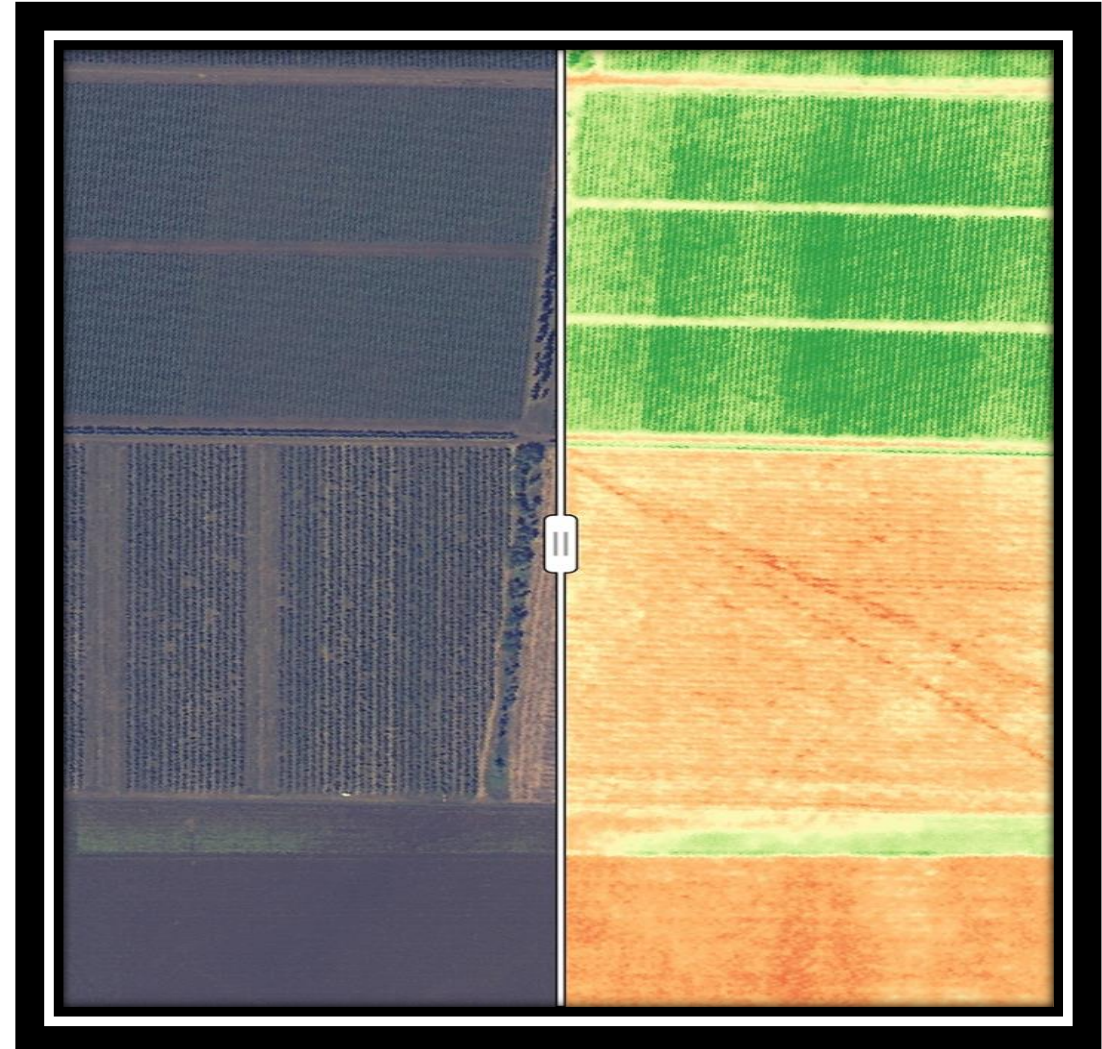
Geospatial Awareness Platform (PGO)



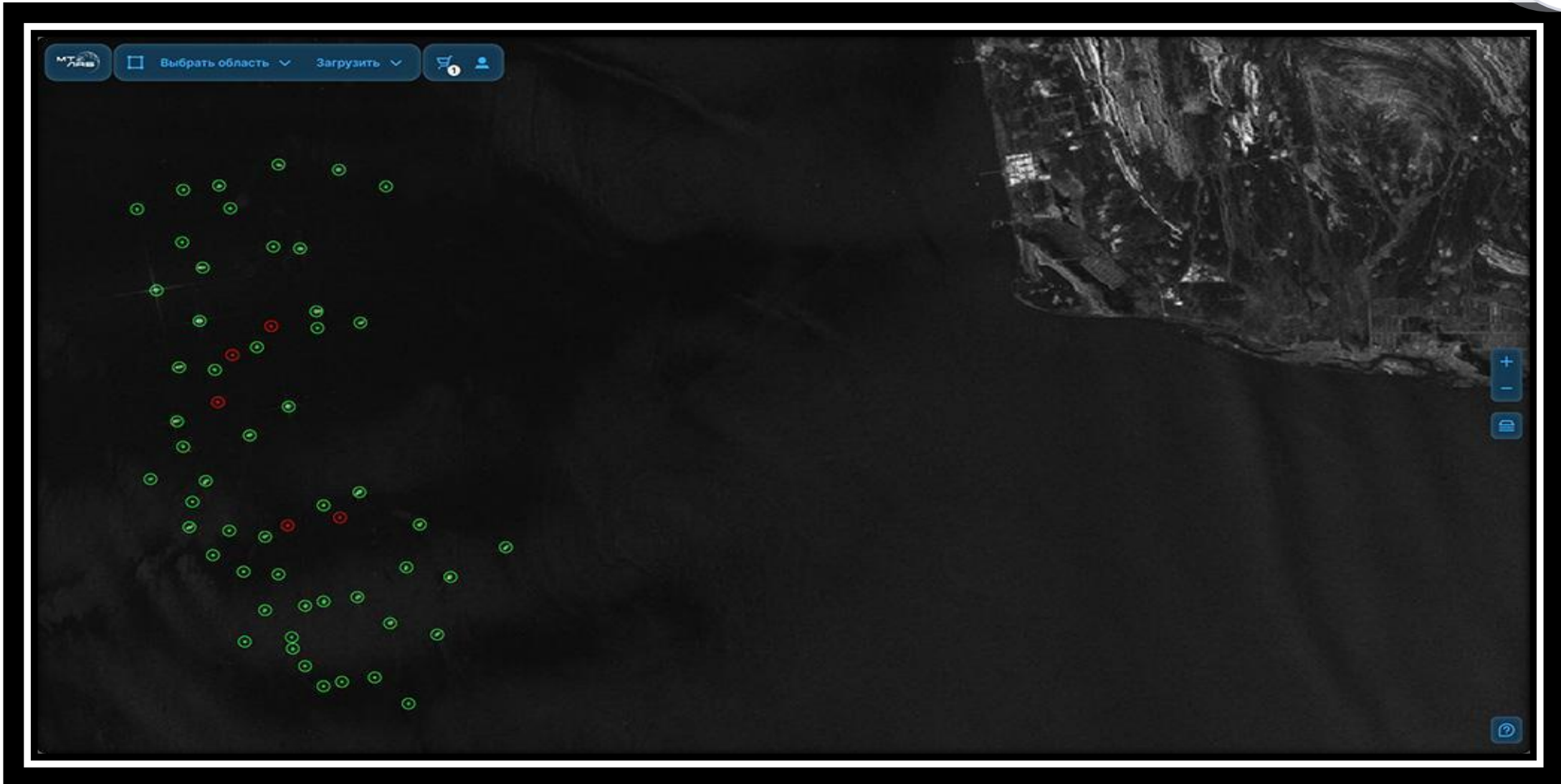
Water health: salinity, turbidity, red waves, blossom, sediment



Vegetation health and stress



Ship detection with no transponder



Strategic partnership opportunities

	Earth Observation Data Supply	Rapid delivery of ultra-high-resolution optical Earth observation data with spatial resolution up to 0,5 m, acquired both from MT-LAB's own satellite constellation and from international partner satellite systems
	Geospatial Analytics	Access to the Geospatial Awareness Platform (PGO) for solving applied tasks based on geospatial data, including API-based integration for data transfer into customer systems
	Product Development	Development and adaptation of high-demand geospatial products and services for international markets, taking into account industry and regional specifics, including collaboration with local partners, industry experts, and system integrators
	Industry Monitoring	Development of specialized monitoring services for infrastructure, energy, agriculture, environmental monitoring, transportation, maritime operations, and emergency response using optical, radar, and auxiliary geospatial data

EFFECT

MT-LAB possesses all the required competencies — from building space systems to delivering advanced analytics based on objective data



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