



EMIIA.AI
SPATIAL INTELLIGENCE

EMIIA.AI SIP – distributed cloud AI platform that solves key challenges in cloud technologies, IoT and RTLS systems, delivering **efficiency 10 times higher than global competitors.**

Result: significant reduction of capital and operating expenses, as well as total cost of ownership (CapEx/OpEx/TCO) for various industries.

PROBLEM

- › Digital twins and AI, including AI agents, are expected to accelerate **internet traffic growth by 40% to 60%**
- › **By 2030, the volume of data is expected to reach 400 zettabytes** — 10,000 times more than in 2010. Internet traffic is doubling every 4 years
- › **Growth of capital, operating expenses, and total cost of ownership** (CapEx/OpEx/TCO) related to data processing, storage, delivery, as well as AI inference and software deployment.

SOLUTION

EMIIA.AI MAP (data mapping technology) — automation of working with digital twins of spatial objects and business processes. Processing, optimization, and compression of data while preserving the accuracy of the core information.

Data volume is reduced by up to 80%, and processing speeds up

Application:

- › Cloud technologies and AI
- › Internet of Things (IoT/AIoT)
- › RTLS system

PROBLEM

- › **The network is becoming more expensive than energy:** Equinix in Singapore pays \$1 million more for networks than for energy, while Cloudflare in Amsterdam pays \$2.1 million for networks versus \$1.5 million for electricity
- › **Network latency** during data delivery, software deployment, and AI inference (east-west traffic, north-south)
- › **AI autonomy**
- › **Growth of capital, operational expenses, and total cost of ownership** (CapEx/OpEx/TCO) related to data processing, storage, and delivery, as well as to AI inference and software deployment

SOLUTION

EMIIA.AI LEM/IoT — distributed AI hardware-software infrastructure based on autonomous clusters and EMIIA.AI LEM/EMIIA.AI IoT gateways

Infrastructure, security, and communication channel costs are **reduced by up to 60%**

Application:

- › Cloud technologies and AI
- › Internet of Things (IoT/AIoT)
- › RTLS system

PROBLEM

- › **Lack of fully functional indoor positioning systems** in buildings and structures
- › **Searching for people during emergencies** in buildings and structures is difficult or even impossible
- › **Digital twins for RTLS systems are heavy**, complex to integrate, expensive to develop, and require ongoing maintenance costs
- › **Increase in capital, operational expenses, and total cost of ownership** (CapEx/OpEx/TCO) in the field of Internet of Things and RTLS systems

SOLUTION

EMIIA.AI SDK/MRV — seamless geolocation and navigation technology for open spaces and indoor environments (RTLS)

Sensor usage in Internet of Things and RTLS systems **is reduced by up to 30%**

EMIIA.AI MAP (data mapping technology) — automation of working with digital twins and their storage

Data volume is reduced by up to 80% and processing speeds up

Application:

- › Internet of Things (IoT/AIoT)
- › RTLS system

ECONOMIC EFFECTS

Reducing costs for storage, processing, deployment, and data delivery allows **businesses, researchers, and developers to:**

- › Significantly reduce TCO (total cost of ownership)
- › Increase ROI (return on investment)
- › Speed up time-to-market for products (Time-to-Market, T2M)

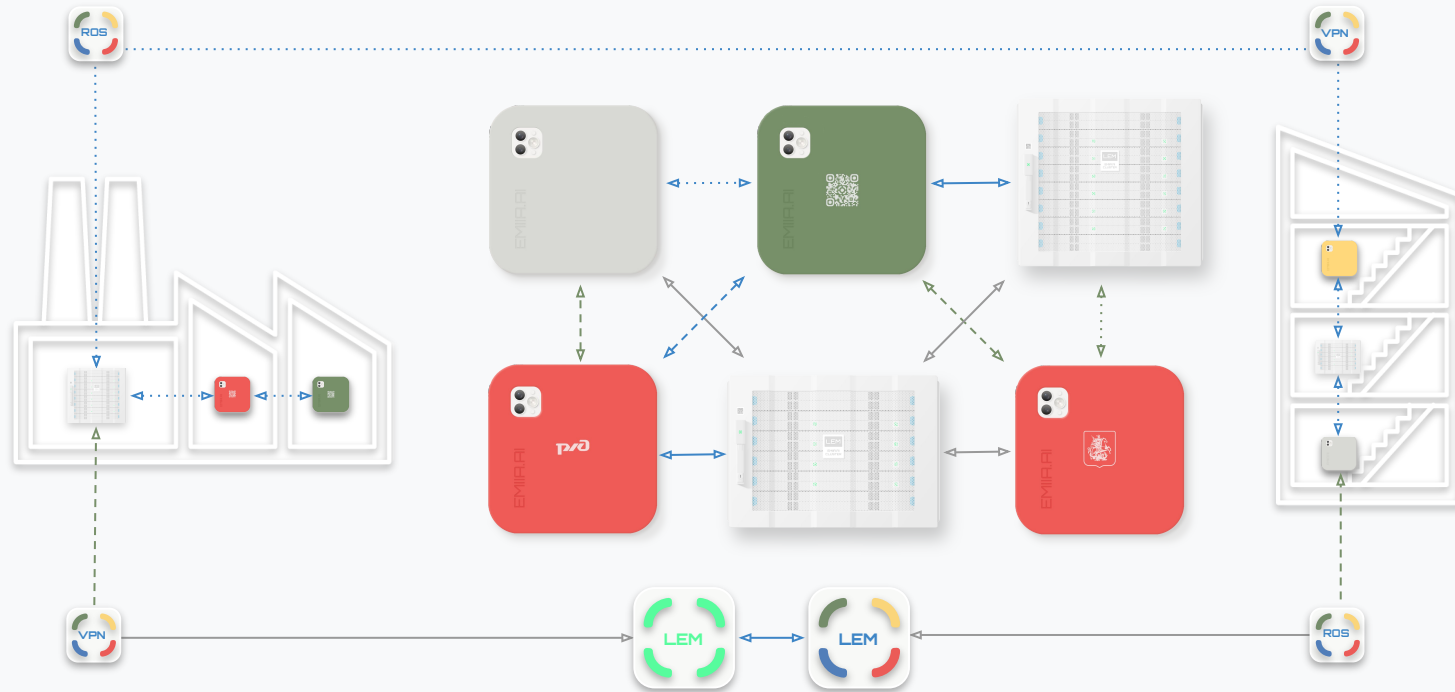
Business	model	-	B2C,	B2B,	B2G,	B2M:
›	API	as	a	product		(APIaaS)
›	Artificial	Intelligence	as	a	Service	(AlaaS)
›	Hardware		as	a	Service	(HaaS)

Market: BRICS+

Technology focus: Internet of Things (IoT/AIoT)

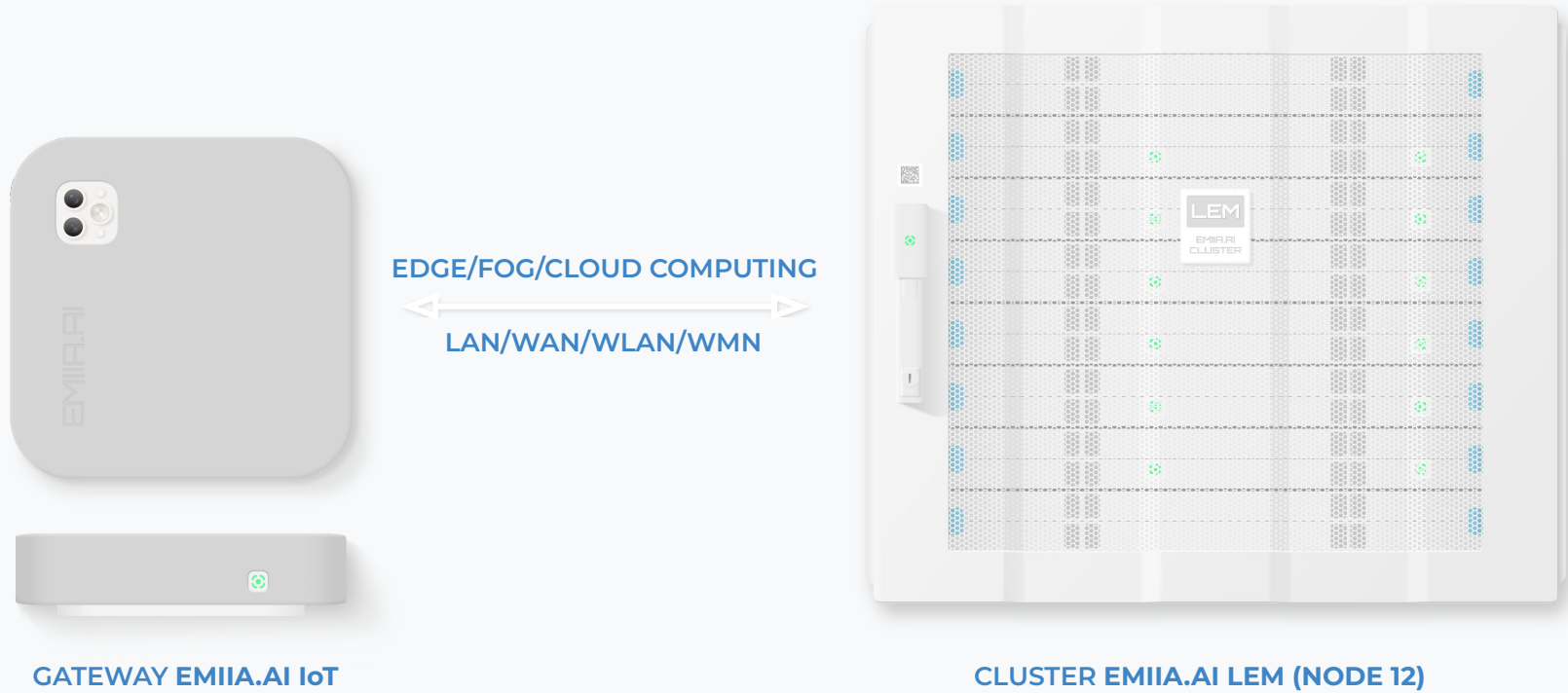
Platform classification: Fault-tolerant autonomous infrastructure for AI, connectivity, and navigation (RTLS)

ARCHITECTURE OF THE DISTRIBUTED CLOUD AI PLATFORM EMIIA.AI SIP BASED ON AUTONOMOUS EMIIA.AI IoT GATEWAYS, CLUSTERS, AND EMIIA.AI LEM DATA CENTERS

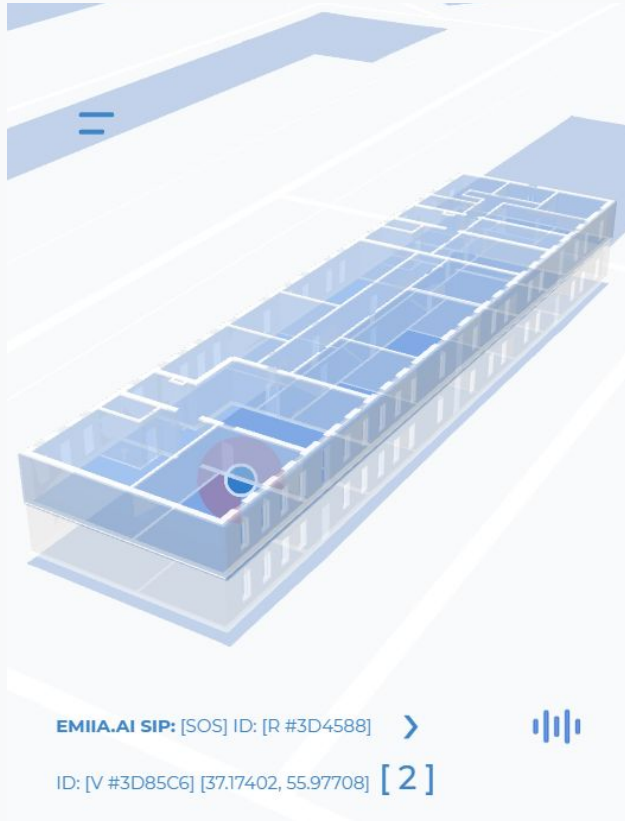


EMIIA.AI LEM CLUSTERS AND DATA CENTERS (HIBRID HPC/COLD, FROZEN DATA)

SOFTWARE AND HARDWARE SOLUTIONS OF THE DISTRIBUTED CLOUD AI
PLATFORM EMIIA.AI SIP: EMIIA.AI IoT GATEWAYS AND EMIIA.AI LEM CLUSTERS



BASIC TECHNOLOGY



EMIIA.AI SIP: [SOS] ID: [R #3D4588] >

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EMIIA.AI SDK/MRV — Machine Radio Vision
EMIIA.AI MRV (Machine Radio Vision), a neural network library for signal processing and data visualization (SDK/API).

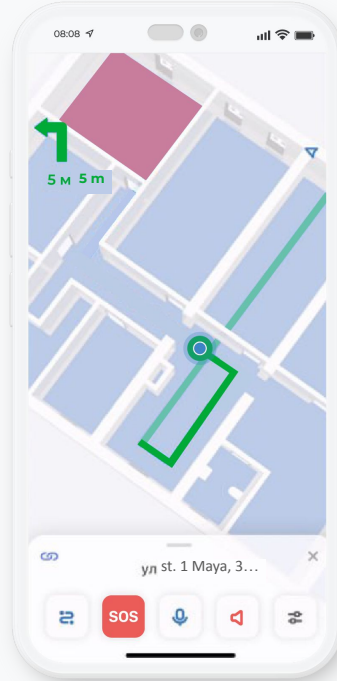
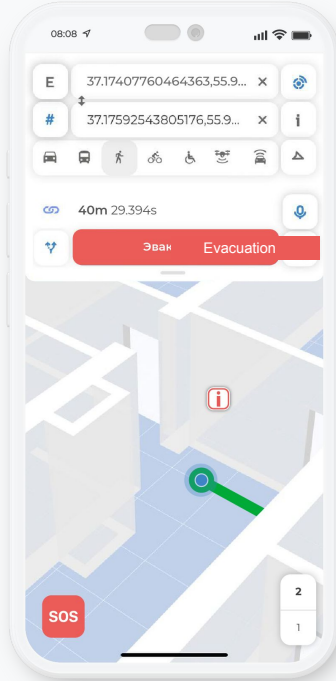
FEATURES: Pattern recognition, calculation of speed, coordinates, and direction of moving objects, including behind radio-transparent obstacles (people, animals, etc.). Range: through radio-transparent barriers up to 9 meters, in open space up to 300 meters.

The solution enables precise real-time object tracking and intelligent AI-powered navigation — both outdoors and indoors.

EMIIA.AI MRV (RTLS system). The technology is based on radio-frequency machine vision using AI algorithms.

INTEGRATION: The technology forms the core of the IT architecture, hardware software stack, and EMIIA.AI SIP cloud platform.

USE CASE/PRODUCTS



NAVIGATION WITHOUT GPS EMIIA.AI SDK/MRV
Indoor/Outdoor - navigation without using satellite systems — only access to our wireless network or the internet is needed to determine location, both outdoors and indoors.

SECURE ENVIRONMENT EMIIA.AI SOS EMIIA.AI the first project that solves the problem of evacuation in emergencies using artificial intelligence.

[RZD USE CASE \(PDF\) ↗](#)

[SECURE ENVIRONMENT EMIIA.AI SOS \(PDF\) ↗](#)

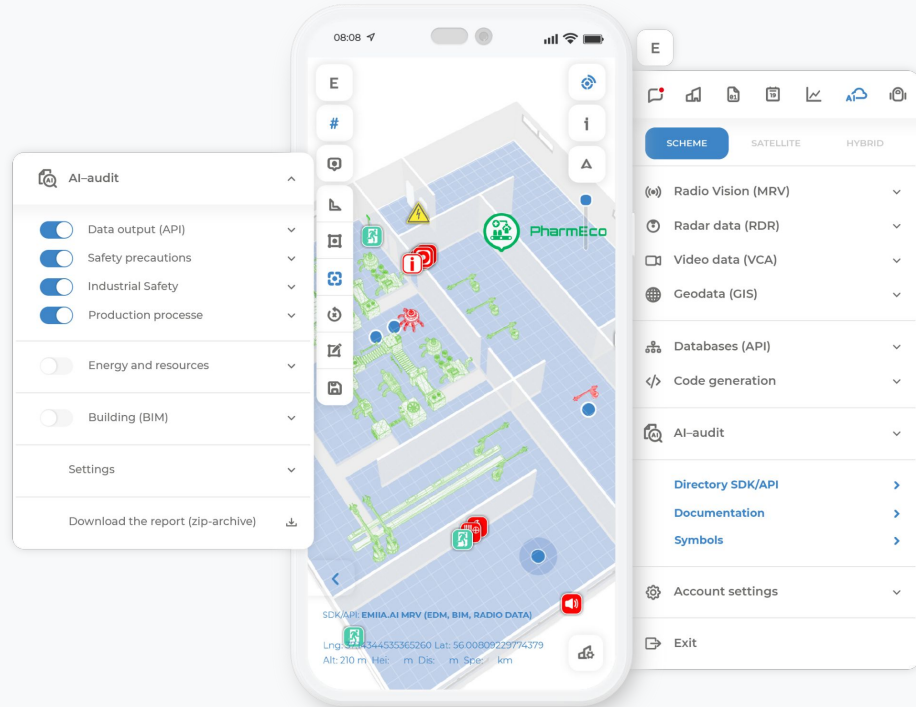
USE CASE/PRODUCTS

AI-AGENTS EMIIA.AI LLM

Autonomous AI agents within the ERP system structure: AI Mapper (digital twins), AI Auditor (production processes), AI Analyst (business processes), AI Pilot (coordination and creation of AI agents), AI Rescuer (public safety)...

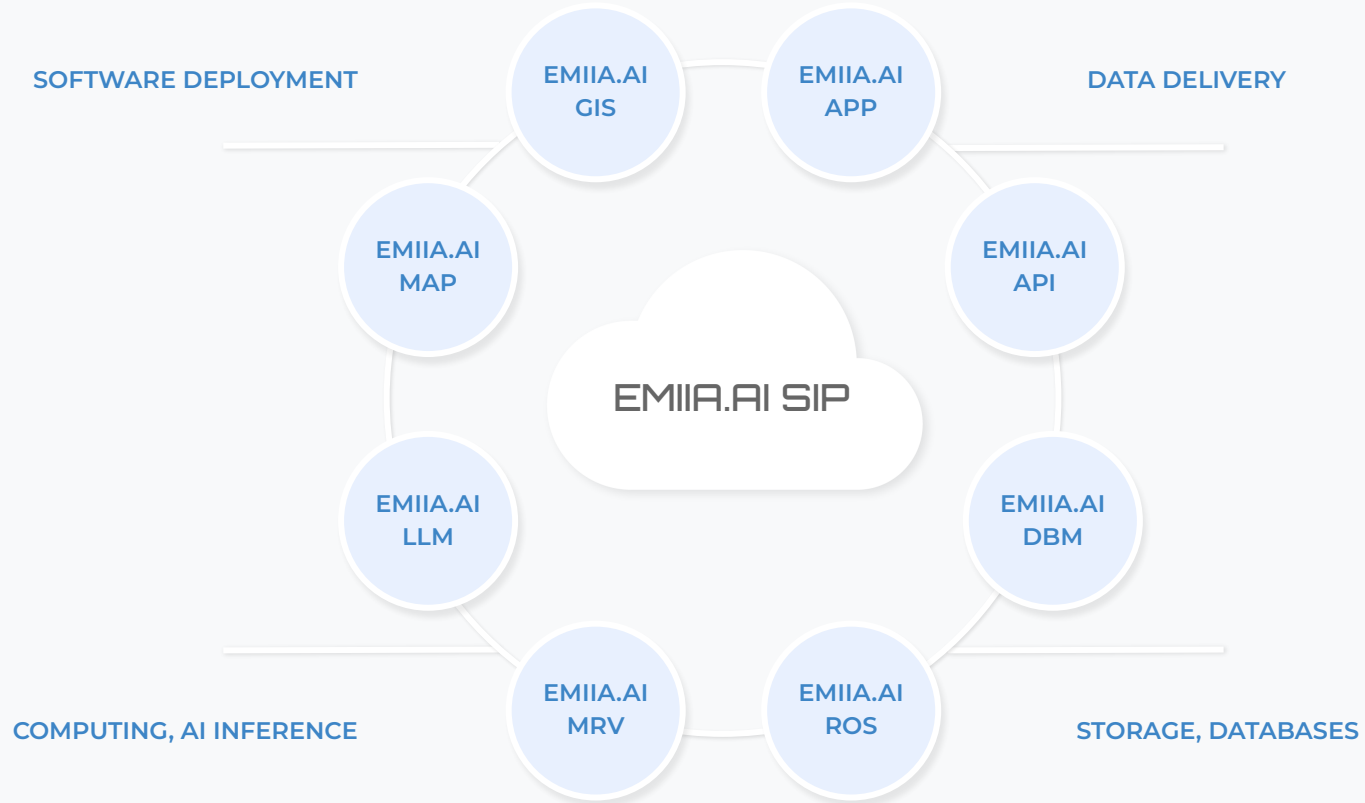
NETWORK AI-COMPUTER EMIIA.AI COM

A powerful AI computer with wireless access to a cloud desktop (VDI) via thin clients, suitable for studying, science, gaming, programming, neural network training and inference, software deployment, and solving various professional and practical tasks.



[VIDEO PRESENTATION \(MP4\) >](#)

SOFTWARE TOOLS OF THE DISTRIBUTED CLOUD AI PLATFORM EMIIA.AI SIP



MARKET ANALYSIS

\$1.2 trillion (CAGR 16–18%) the global cloud services market, including IoT and AI, will reach by 2030

\$61.7 billion (CAGR 27–30%) the global RTLS market will reach by 2030

2.5 trillion rubles (CAGR 35–40%) the Russian cloud services market, including IoT and AI, will reach by 2030

1.5 billion rubles (CAGR 30–35%) The Russian RTLS market will reach by 2030

PROJECT DEVELOPMENT PROSPECTS (2030)

7.9 exaflops of platform computing power

8.7 exabytes of data storage capacity on the platform

100 million active platform users: B2B, B2C, B2G, B2M

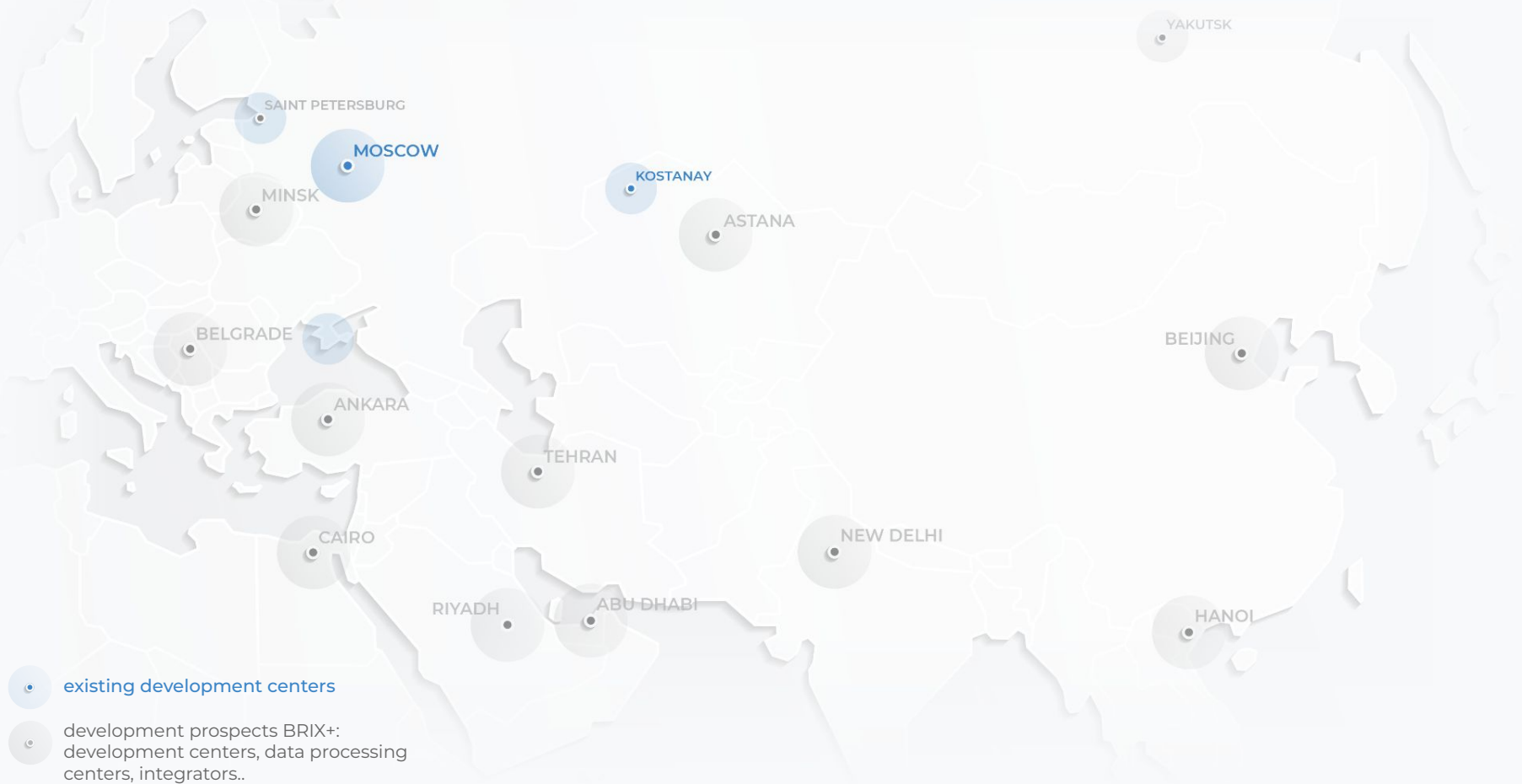
By 2030, the EMIYA project aims to enter the top 100 global and top 10 Russian leaders in processing, storing, and delivering spatial data, providing services to millions of users.

Implementation deadline: 2027. Full operational capacity planned for 2030.

[INVESTMENT PROPOSAL \(PDF\) »](#)

ROADMAP

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ABOUT US

EMIIA LLC — Technological startup company (DeepTech), main specialization – end-to-end digital technologies.

TRL: 8-9, CAGR: 58%, R&DC: 57%.

A project team built around a core of R&D consists of top-tier engineers who have worked together for years in high-tech, strengthened by AI agents.

In our development, we rely not on analogs, but on technological trends.

Our mission is to create accessible AI infrastructure and provide unique resources for enterprises, researchers, and developers in the field of operational technologies!

PROJECT TEAM



VLADIMIR STAROSTIN

IT: ML, MRV, IT architecture, business model, commercialization

- Ten years of experience in IT management and development
- Two completed projects (software and hardware solutions)
- More than one hundred thousand replications of developed software (firmware)



ALEXANDRA SMYSLOVA

Industrial design: UI,UX, business model, commercialization

- Ten years in industrial design and project management
- More than one hundred interfaces and design solutions have been developed with more than one million replicated



ALEXEY LUMAN

Cloud: IT, ML, MRV, Cloud architecture

- Ten years of experience in IT management and development
- Two completed projects (software and hardware solutions)
- More than one hundred thousand replications of developed software (firmware)



ANDREY KONSTANTINOV

Hardware solutions: ML, MRV, Hard architecture

- Ten years of experience in developing hardware solutions in the field of passive identification of moving objects.
- More than ten software and hardware systems have been developed

[ABOUT THE PROJECT AND TEAM \(INTERNET RESOURCE\) »](#)

EMIIA.AI

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ФОНД СОДЕЙСТВИЯ
ИННОВАЦИЯМ

