



Joint Stock Company «Navigation-Information Systems»

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NIS-GLONASS

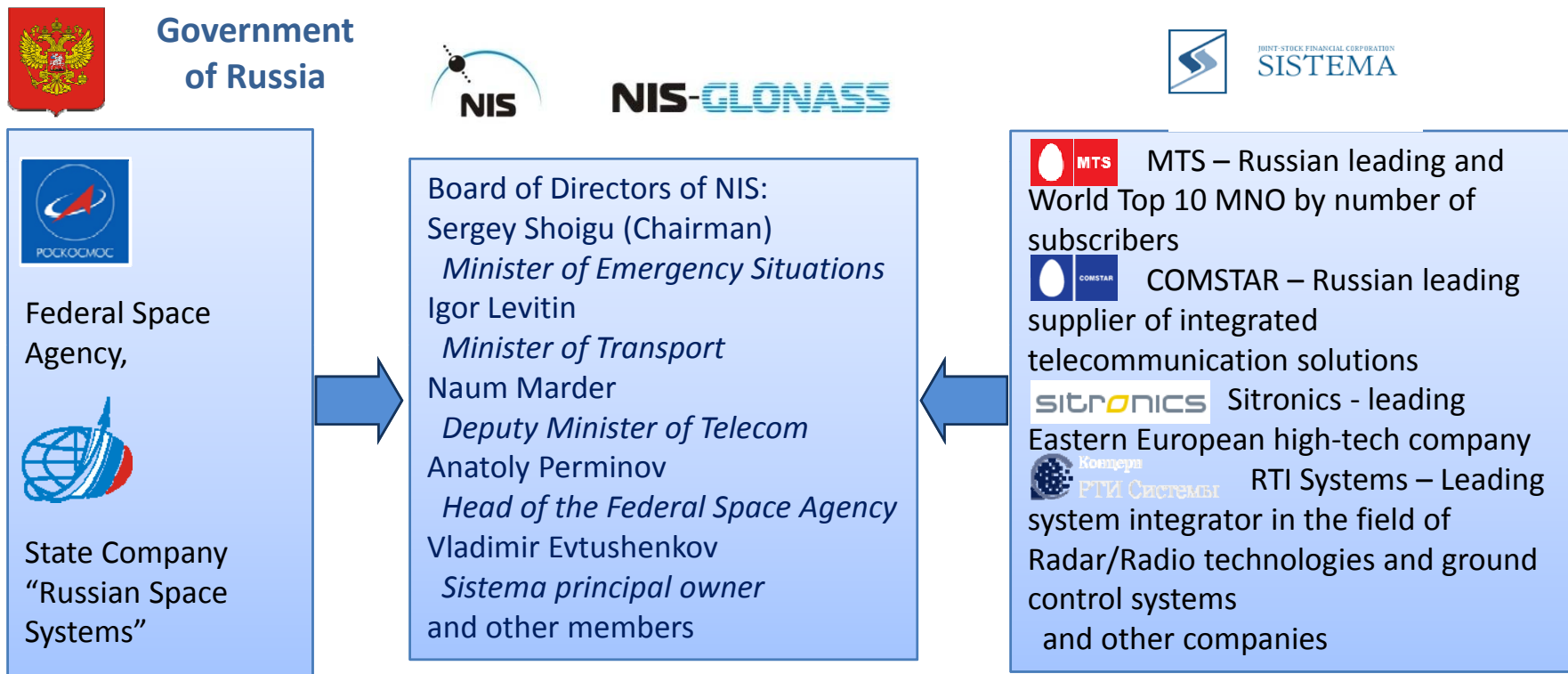
NIS-GLONASS

Navigation-Information Systems, JSC: Public Private Partnership



Joint Stock Company “Navigation-Information Systems” was established in 2007 as Public Private Partnership for the purpose of development of navigation services market and usage of its possibilities.

JSC “Navigation-Information systems” was designated in 2009 by Russian Federal Government Ordinance #549 as Federal network operator in the field of navigation activities in Russia.



JSC “NIS” as Federal network operator aims to provide the environment for GLONASS-based technologies implementation within Russia and in the foreign market

Navigation-Information Systems, JSC

Mission, Objectives and Business Activities



Mission

NIS is the Federal network operator of navigation-information services with a mission to create an environment for the increasingly broad use of GLONASS technology and to facilitate its expansion into the Russian and foreign markets. NIS operates navigation information platform, providing infrastructure facilities for navigation-based services in domestic and global market.

Objectives and Business Activities

NIS objectives are such as follows:

- ✓ Creation of an environment for the mass usage and distribution of GLONASS technologies within Russia and in the foreign market;
- ✓ Navigation infrastructure maintenance with the view to render and develop operating services based on satellite navigation;
- ✓ Facilitating development of rival GLONASS products;
- ✓ Process management unity provision in implementation and utilization of satellite navigation systems;
- ✓ Expert evaluation of the current and perspective navigation technologies;
- ✓ Participation in development of state policy and strategy in the field of GLONASS commercialization.

NIS business activities include:

- ✓ ERA CLONASS: national GLONASS-based emergency response system
- ✓ Operation and maintenance of navigation information platform
- ✓ Navigation-based services for state entities and private customers
- ✓ Intelligent Transport Systems, GLONASS-based Toll Collect systems
- ✓ Geoinformatics – modern GIS products
- ✓ Dedicated navigation information systems, in particular Olympic Games 2014 Fleet Management Center



JSC «Navigation-Information Systems» current and perspective projects in the field of GLONASS technologies development and adoption



ERA GLONASS

GLONASS based technologies Emergency Response system



ITS-Moscow

Intelligent transport system of Moscow



The Olympic Games-2014

Creation of fleet management centre of Olympic Games- 2014, navigation-information Olympics provision



MNIC

Main navigation-information centre of the Federal operator project



Fuel-energy complex monitoring

Automated monitoring and traffic control system for the sake of **Fuel-energy complex** business unit of Joint Stock Financial Corporation «Sistema»



High-precision systems of satellite navigation

United differential navigation system and rendering of services organization project



Monitoring of critical objects

System of critical and potentially dangerous objects complex monitoring project



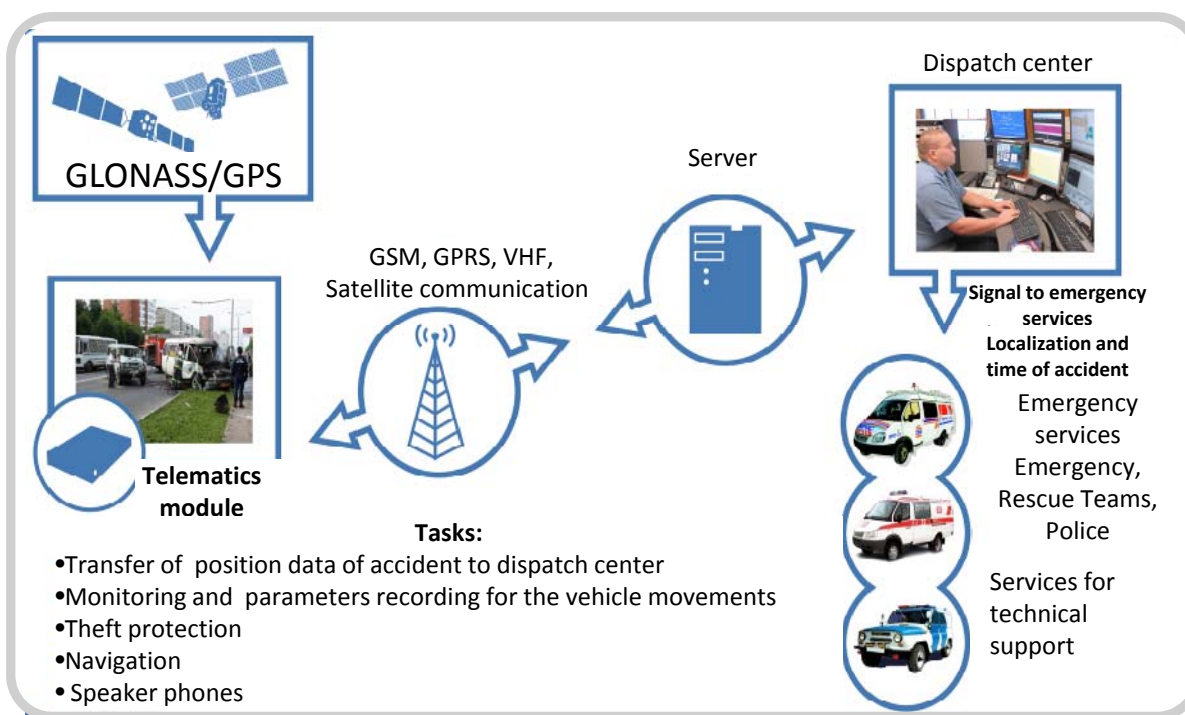
Geoinformatics

Creation and promotion of modern cartographic production into Russian and foreign markets

«ERA GLONASS» - the highest priority project

Project is approved and supported by the Committee on Modernization and Technological Development of Economy of Russia chaired by the President of the Russian Federation. NIS is designated as the single executor of the project.

According to expert evaluation as soon as the project is deployed completely throughout Russia it will allow to save more than 4,000 lives annually.



ERA GLONASS project is the backbone of information navigation market formation, the factor of innovative development of national infrastructure and increase competitiveness of national economics

Fleet management solutions

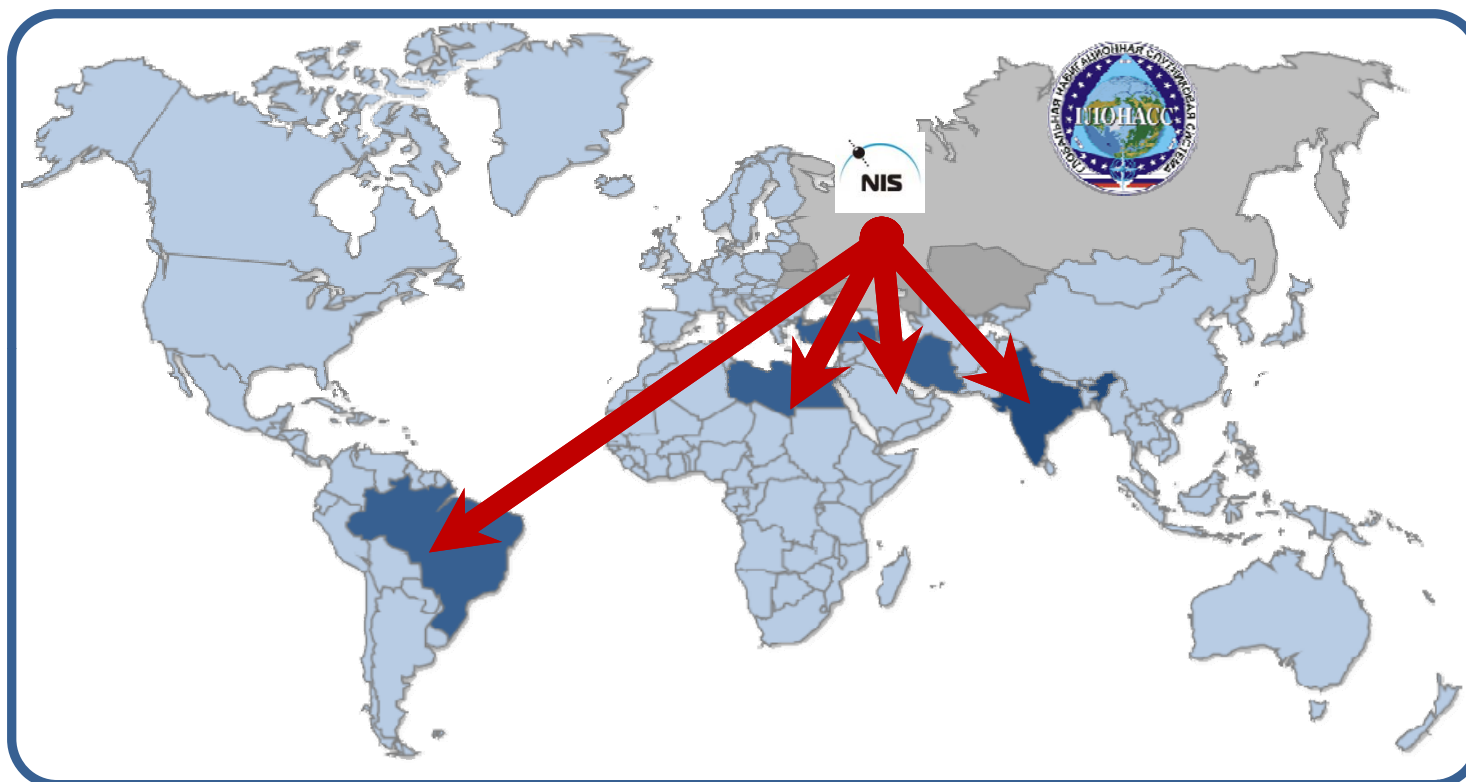
- Municipal passenger transport
- Rescue and ambulance services
- Police
- Emergency services
- Taxi
- Housing and utilities services
- Cargo-carrying companies
- Dangerous cargo transportation
- Construction and maintenance companies
- Water transport

- ✓ Determination of vehicle location, direction and speed;
- ✓ Fuel consumption and mileage control;
- ✓ Fleet security and control...



Improving efficiency, productivity and reducing overall transportation cost

Top-priority tendencies of international development



Currently the process of navigation-information GLONASS technologies projects implementation is in progress, together with rendering of corresponding services in the countries of CIS, the Middle East, India, Central and South America.

The maximum priority is given to the projects in India, Egypt, Turkey, Brazil.

Top-priority tendencies of international development



- *India is the main partner of the Russian Federation in the international market of GNSS based applications.*
- *MOU signed by Roscosmos, NIS and ISRO in March, 2010 is under implementation.*
- *Creation of Joint Russian- Indian enterprise between NIS and Antrix in the navigation field is in progress. The joint enterprise is to be established by the end of this year.*

JSC “Navigation - Information systems” proposals for co-operation in the field of utilization of GLONASS/GPS-based technologies

- Rendering navigation-information services and solutions on the basis of GLONASS/GPS technologies for monitoring and fleet management:
 - ✓ Public transportation;
 - ✓ Ambulance;
 - ✓ Police;
 - ✓ Hazardous cargo transportation;
 - ✓ Various transport company;
 - ✓ etc.
- Implementation of Emergency response on accidents project;
- High precision positioning systems introduction:
 - ✓ Monitoring of buildings, bridges and other critical objects;
 - ✓ Cadastral works, etc.

Thank you for your attention



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