



# “ERA GLONASS” Project

## - Emergency Call initiative in Russia

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**NIS-GLONASS**

# Support of ERA GLONASS Project by the Russian Federation President and Government



President Dmitry Medvedev has supported ERA GLONASS Project as a key project to improve safety on the roads and facilitate modernization of Russian economy.

Prime-Minister Vladimir Putin has signed an instruction to allocate financing for ERA GLONASS project as a key national project starting 2010.

# Russian “eCall” Project Background

**Territory: 17 075 400 km<sup>2</sup>**  
**11 large cities**  
**1 140 midsize towns**  
**240 000 villages**  
**1 140 000 km of local roads**  
**45 000 km of main roads**

**Road Accidents in 2009:**  
**203 603 accidents**  
**involving injury**  
**257 034 injuries**  
**26 084 fatalities**

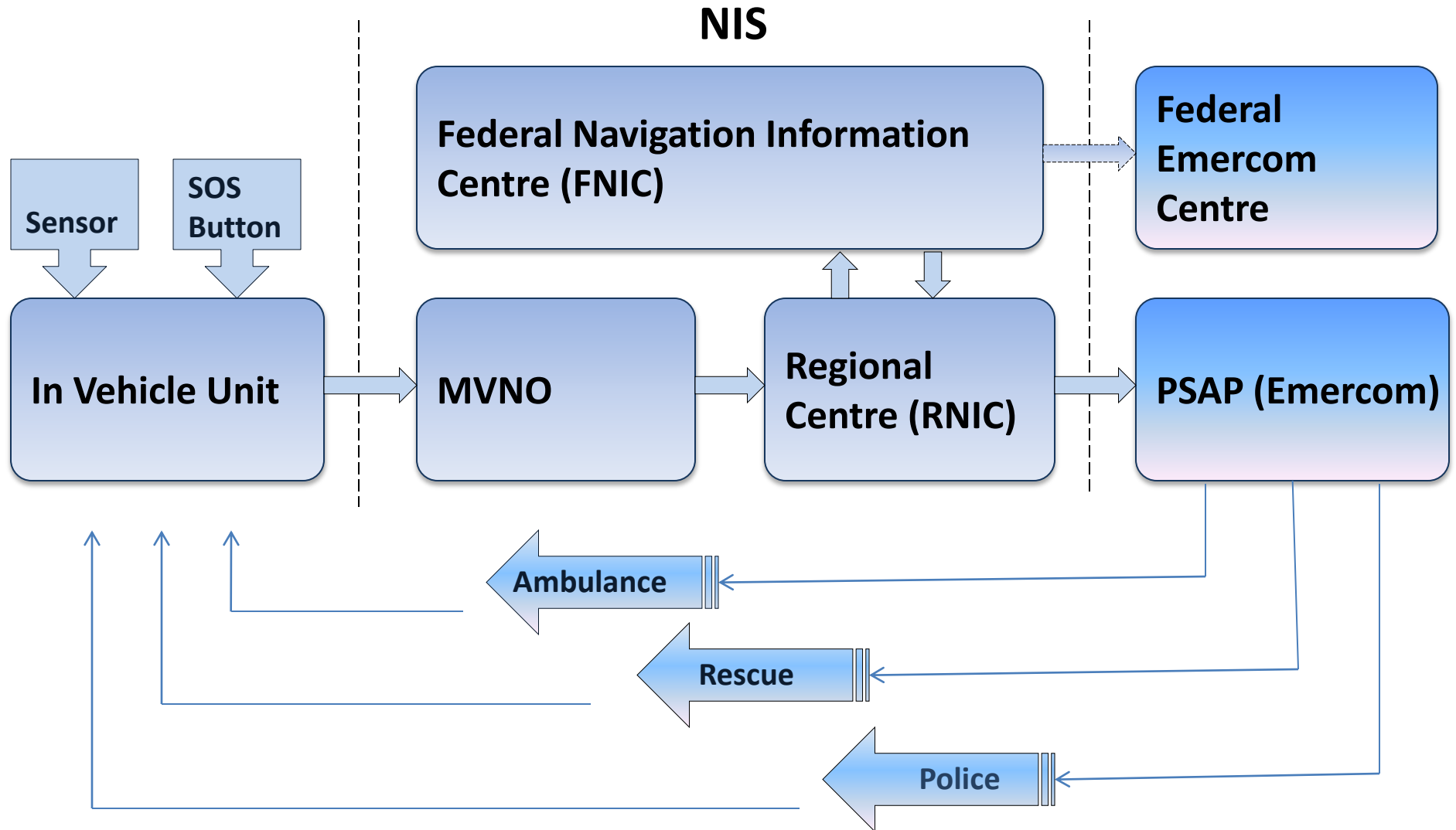


**Citizens: 142 millions**  
**Cars: 34.2 millions**  
**Trucks: 5.3 millions**  
**Buses: 894 000**

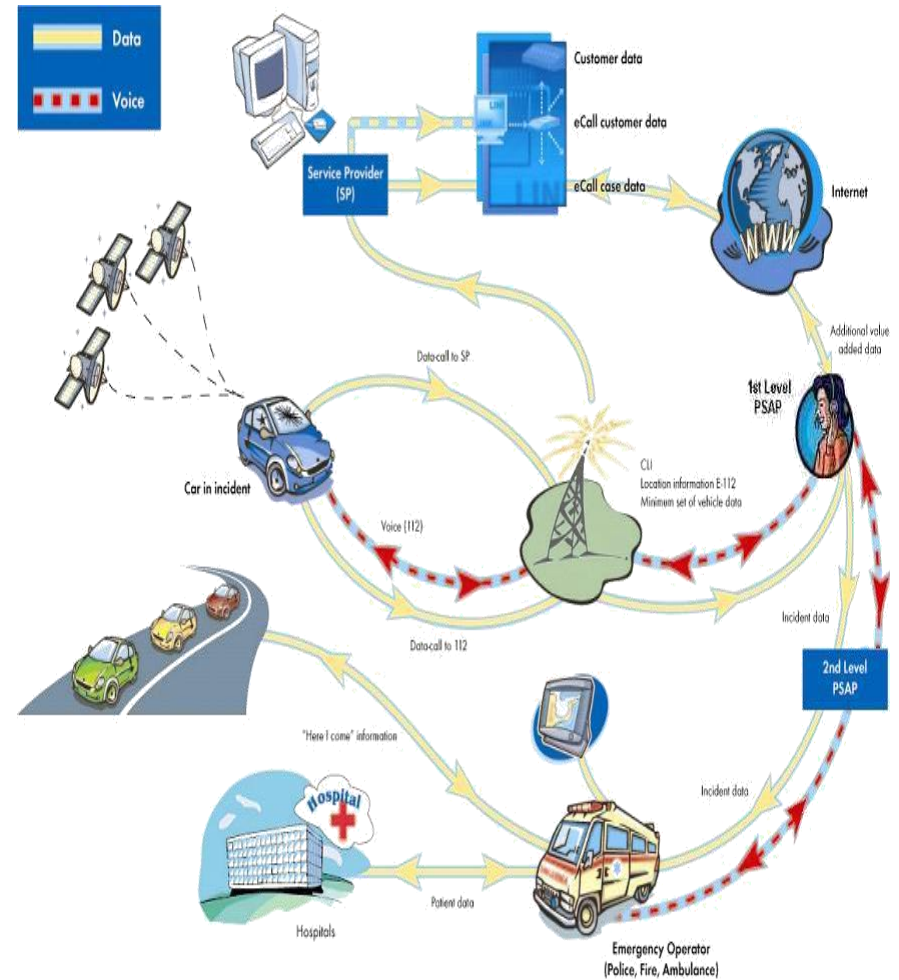
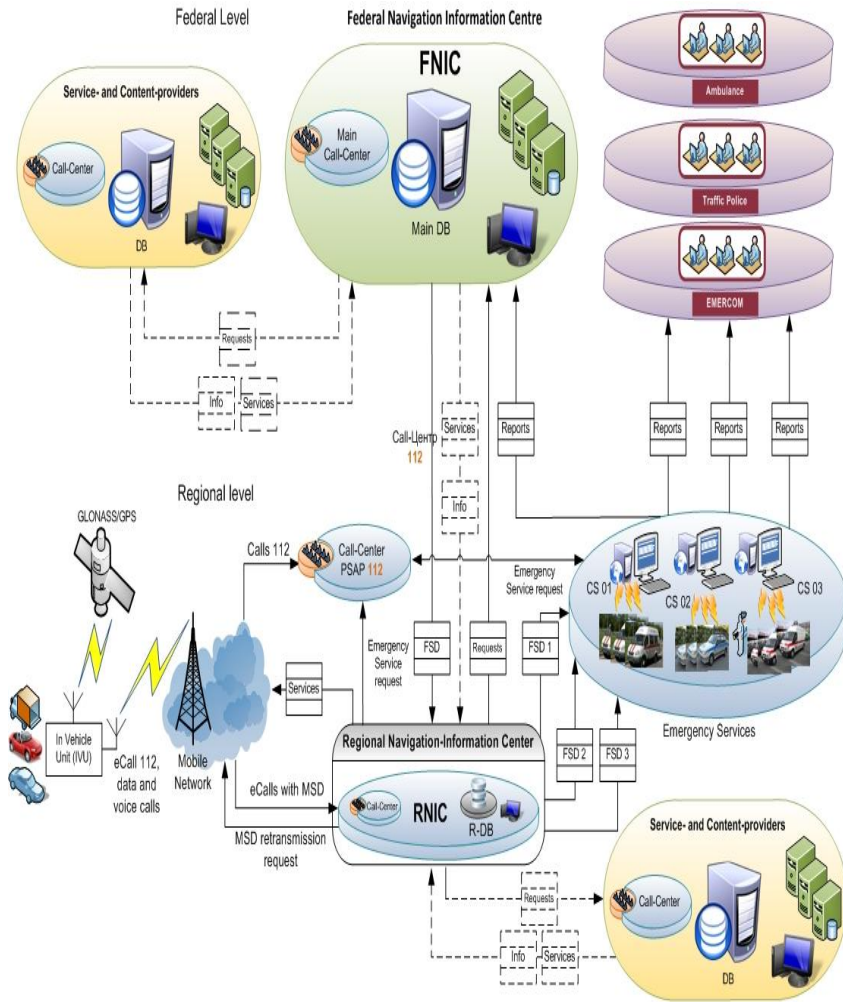
**Currently emergency**  
**access points are separated**  
**by function (fire / police /**  
**ambulance).**

**“System 112” is being built**  
**in course of ongoing**  
**project.**

# ERA GLONASS working process



# Architecture of Russian ERA-GLONASS and European eCall systems



# Comparison of ERA GLONASS and European eCall

## ERA GLONASS Project

### Russian GLONASS-based emergency response system

- In-Vehicle Unit with support of GLONASS or GLONASS/GPS/Galileo;
- Triggered automatically by the in-vehicle device in case of serious accident or manually by vehicle occupants
- Based on 112 Emergency number (starting 2012)
- Creates a voice link to the local PSAP and sends Minimum Set of Data through Regional Navigation Information Center on the territory of Russia
- PSAP on a base of National Rescue Service distributes the calls to local Police PSAP, local Ambulance PSAP
- Infrastructure of ERA GLONASS system will be serve as a base for additional location-based services (Pay As Your Drive, Road Taxes; Toll Collect, Stolen Vehicle Recovery, etc.)

## eCall Project

### The Pan-European in-vehicle emergency call system

- In-Vehicle Unit with support of Galileo or GPS/Galileo;
- Triggered automatically by the in-vehicle device in case of serious accident or manually by vehicle occupants
- Based on 112 Emergency number (112 and E112)
- Creates a voice link to the closest PSAP and sends Minimum Set of Data on the territory of EU.

**Russian ERA GLONASS system and pan-European eCall system are not identical.**

**It is important to ensure systems compatibility. Common standards must be used to provide service coverage for European vehicles in Russia and Russian vehicles in the EU.**

# ERA-GLONASS: Project Roadmap

2009

- Start of NIS operations (November)
- Development of ERA GLONASS business model

2010


- Design of ERA GLONASS architecture
- Design of prototype In-Vehicle Unit and prototype telematic platform
- Drafting proposals for laws and regulations amendments to facilitate ERA GLONASS implementation

2011

- Testing of In-Vehicle Units and telematic platform
- Roll-out of telematic platform and regional infrastructure
- Approval of new laws regulating ERA GLONASS operations

2012

- Mass Production of In-Vehicle Units
- Start of full-scale ERA GLONASS operations (end of the year)

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- Establish working relations to ensure harmonized development of eCall and ERA GLONASS systems
  - Create environment for equipment and solution providers to benefit from harmonized systems design, while eCall and ERA GLONASS will benefit from using the best solutions
  - NIS to join EU eCall-related working groups, associations and forums
  - Establish a joint committee to coordinate eCall system design and implementation activities in Russia and EU, and to share best practices
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