

# Intellectual Transport System – Russia





## Russia - the bridge between East and West



Russia needs integration with ITS community and national ITS – standards complying with global ITS





## Russian Transport system in figures



- 11 time zones
- All means of transport
- Access to 3 oceans
- 44 seaports
- 126 river ports
- 91 041 км of rail roads
- 250 federal airlines
- 400 regional airlines
- 2 000 expedition companies
- 2 500 transport companies

40 000 000 vehicles on the roads



## Transport problems in Russia



- **30 000\*** – annual number of fatalities in road accidents
- **76%\*** - share of able-bodied population in fatalities
- **230 000\*** – annual number of injuries in car accidents
- **€ 10,5 bln (2,6% GDP)\*** – annual damages from road accidents
- Needs in road intermodal infrastructure development for improvement and sustain efficient flow of people and goods
- Necessity in regional economic development in order to form regional transport corridors

*\* Data provided by Ministry of Health and Social Development of Russian Federation, 2008*



## Transport problems in Russia



- High range of road accidents and fatalities
- Traffic jams and congestion
- Low efficiency of transport network
- Growth of energy resources consumption
- Negative environmental impact



## ITS market in Russia today



- Isolation
- Fragmentation
- Interagency disconnection
- Lack of national ITS-standards
- Lack of systematic cooperation between Russian and international ITS community



## Russian Transport Strategy (up to 2030)



### Targets

- Forming united transport area in Russia
- Developing cargo transport service availability and competitiveness (quality criteria – innovation economic development)
- Developing transport service availability and quality for population according to high social standards
- Integration in international transport field and realization of Russia's transit potential
- Increasing transport system safety
- Mitigation of negative environmental impact from transport complex



## Intellectual Transport System - Russia

- **ITS - Russia** – union of political, intellectual, technical, financial and administrative resources in order to develop secure, safe, efficient, environmental and comfort movement of goods and people







## ITS - Russia: targets



- Improving life quality
- Improving road safety
- Increasing quality of cargo and passengers transport
- Increasing transport infrastructure efficiency
- Transport security from external threats including terrorism
- Anti - car theft counteraction
- Mitigation of negative environmental impact from transport complex



## ITS - Russia: tasks

- Development of standards and legal base for creation of national ITS architecture as a part of international ITS
- Research
- Independent ITS - project expertise
- Commercial projects funds accumulation
- Target financing of accepted programs
- International collaboration





## Potential and existing Stakeholders of ITS - Russia



- Industry  
(vehicle manufacturers, insurers, electronics, IT, engineering)
- Service providers and infrastructure operators  
(road, transport, telecommunication)
- Public authorities
- End-users
- Research and educational institutes
- Professional unions and organizations



## ITS – Russia cooperation



- Russian Academy of Sciences
- State Technical University (MADI)
- Professional Association in Vehicle Risk Prevention (PAIRP)
- Association “GLONASS / GNSS Forum”
- Association of Transport Telematics (ATT)
- International Transport Academy
- Companies integrated with federal target programs
  - “Increasing road safety in 2006-2012”
  - GLONASS
  - Olympic Games “Sochi-2014”
  - Development of Russian transport system
  - Programs for development of transport system in Moscow and Moscow region
  - Programs on transport passages development



## ITS – Russia Acting Plan



- Development of “Intellectual Transport System – Russia” as a part of federal programs “Safety Roads” and “Infrastructure of Russia”
- Invitation of professional community for discussion of national ITS-conception
- Definition of actual and perspective ITS-projects
- Forming ITS projects database
- Approval of conception “Intellectual Transport System – Russia” (at the Second ITS – Russia Congress, April 2010)
- Invitation of Russian and foreign participants for ITS-projects in Russia
- Creating private - governmental partnership on the base of “ITS-Russia”



## Perspective projects ITS - Russia



- Programs with car manufacturers and insurers for supplying more safe, secure and environmentally friendly vehicles for Russian market
- Emergency call program “ERA GLONASS” (analog of European of «e-Call»)
- Traffic management system
- Regional pilot projects for development of ITS and road infrastructure (Dubna, Sochi)
- Personal and vehicle navigation market development
- Development of road infrastructure and transport corridors



## Second ITS- Russia Congress April 2010



### Targets

- Approving conception of “Intellectual Transport System – Russia” and suggesting it for the Government of Russian Federation
- Presentation of successful ITS projects from other parts of the world to Russian policy makers and investors
- Presentation of Russian ITS projects



## ITS - Russia Supervisory Board



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