

# National Background Report on Transport for Serbia

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# Purpose of the report & summary of the consultation process

- Transport research environment in Serbia
- SWOT analysis of transport research capacities
- Transport research priorities for 2008-2012 period
- Report largely based on the outcomes of the consultation process:
  - January/February 2009: questionnaires sent to 23 project managers of the ongoing transport research projects funded by the Serbian MSTD
  - 12 responses received

# The overall transport policy framework – the strategy

- 2008: Serbian Government adopted the “Strategy of development of rail, road, water, air and intermodal transport in the Republic of Serbia for 2008-2015”
- Future development of transport sector based on the principles of:
  - Safety,
  - Intermodality,
  - Application of new technologies,
  - Complementary use of different transport modes,
  - Rational use of available capacities and resources

# Government's Transport strategy: objectives

- Basic goal: reach compatibility with EU's transport system while ensuring lowest possible adverse environmental impacts
- Integrating Serbian transport network into the TEN-T
- Efficient use of comparative advantages of each transport mode
- Rising the quality of transport services, by increasing efficiency, better organization of transport operations from ecs., safety and envir. perspective and application of target-oriented planning and managing of traffic flows

# Government's Transport strategy: objectives (cont.)

- Increasing the level of safety and security of the transport system
- Strengthening and gradual liberalisation of transport market
- Reducing adverse environmental impacts of transport
- Establishing stable financing of transport system's development

# Transport research framework

- New “National strategy for science and technological development” – expected by July 2009
- MSTD provides some funding of transport research (grants), but does not define the target research areas/themes
- Latest completed CfP *Research programme in the TD field for 2008-2011*: 23 projects funded by the MSTD in the *Transport* area: 213 researchers involved
- CfP: *Energy efficiency in transport* – three ongoing projects funded by the MSTD
- FP6 and FP7 (nine transport research projects with involvement of Serbian research institutions)

# Transport research projects & competencies

- *Research programme in the TD field for 2008-2011: 23 projects funded by the MSTD in the Transport area:*
  - 10 projects: road traffic (ITS, safety aspects, environmental impacts, energy efficiency, LoS considerations),
  - four projects: rail traffic (safety, energy efficiency, TD and environmental considerations).
  - three projects: water transport (fleet efficiency, port processes optimisation, and strategic considerations),
  - two projects: air transport (methods for evaluation of development scenarios from various perspectives, and emissions and noise mitigation),

# Transport research projects & competencies (cont.)

- two projects: logistics (SCM),
- two projects: postal services (risk management and strategic considerations).
- *Energy efficiency in transport*: three projects on road transport, combined transport and transport energy efficiency in general
- *Research programme in the TD field for 2008-2011*:  
*Mechanical engineering area*: a project on the development of safe, efficient and environmentally friendly vessels

# Transport research infrastructure

- MSTD
- KOBSON service
- Universities (Belgrade, Novi Sad, Kragujevac, Niš) – faculties of transport and traffic, mechanical engineering, civil engineering...
- Research institutes (civil and military)
- Transport vehicle manufacturers (cars, vessels, aircraft)
- PE “Serbian Railways” and “Roads of Serbia”

# Integration of Serbia in the ERA in the field of Transport

- Thessaloniki Agenda, 2003: EU partnership with WB countries
- SAA Agreement with the EU, 2008 – not yet in force
- EU's framework programmes for RTD – Serbia is an associated country – eligible for EU funding

# SWOT analysis: Strengths

- Transport recognized among national priorities
- Institutional support for RTD in transport, first of all by the MSTD
- Presence in EU research programmes

# SWOT analysis: Weaknesses

- Transport research lagging behind European trends
- Lack of specific (target) transport research themes – no clear transport research strategy as such.
- Insufficient and untimely communication on R&D funding opportunities.
- Insufficient incentives for young researchers. Leakage of researchers to commercial sector.
- Joint research: research institutions/transport stakeholders – insufficient communication, cooperation and transfer of research findings.
- Lack of communication on EU policies.
- Lack of PM skills

# SWOT analysis: Opportunities

- *New National strategy for science and TD* – transport research possibly among priorities.
- Presence in EU research programmes. Access to EU research funds.
- EU accession process – alignment of transport research policies with the EU's, expected to provide more funding opportunities.
- Expected liberalisation of transport market.

# SWOT analysis: Threats

- Research infrastructure. Technical equipment increasingly lagging behind recent developments.
- Brain drain.
- Economic crisis – endangered RTD funding.

# Transport research priorities for Serbia

- Optimal combinations of different modes (optimodality), aiming at efficient and seamless transport chains;
- Intelligent transport systems, encompassing all transport modes: rail, road, water and air transport;
- Supply chain management, including terminal processes;
- Charging schemes for the use of transport infrastructure.

# Transport research priorities for Serbia (cont.)

- Development of small aircraft;
- Development of river and river-sea vessels;
- Experimental testing including technical and navigational characteristics and propulsion of loaded vessels and pushed convoys, to increase the efficiency of river traffic