



Research and Innovation for Europe's future mobility

Developing a European
Strategic Transport-
Technology Plan

*ERRAC Plenary Meeting,
23 November 2012*

Contents of presentation

- The 2011 Transport White Paper
- Research and Innovation for Europe's Future Mobility - towards an STTP
- Proposals to improve the innovation capacity of the transport sector
- Next steps

The 2011 Transport White Paper

- Old challenges remain but new ones have come

Increasing competitive
pressure in the global
economy



Increasing oil price and
persistent oil dependency.
A deteriorating climate and
local environment

Increasing congestion and
poorer accessibility. An
infrastructure gap in the
enlarged EU



The 2011 Transport White Paper

- One CO₂ objective and ten goals



1. Low emission urban transport and logistics
2. Low-carbon fuels in aviation and maritime transport
3. Freight, modal shift from road transport
4. EU-wide high-speed rail network
5. Multimodal TEN-T core network
6. Long-term comprehensive network
7. Traffic-management systems in all modes
8. Multimodal transport information
9. Close to zero fatalities in all modes
10. Towards 'user pays' and 'polluter pays'



The 2011 Transport White Paper

- How to do it: 40 actions
 - Infrastructure development
 - Internal market
 - International cooperation
 - Innovation

The Strategic Transport- Technology Plan (STTP) will be the Research and Innovation pillar of the Transport White Paper



Commission adopted on 13 September 2012

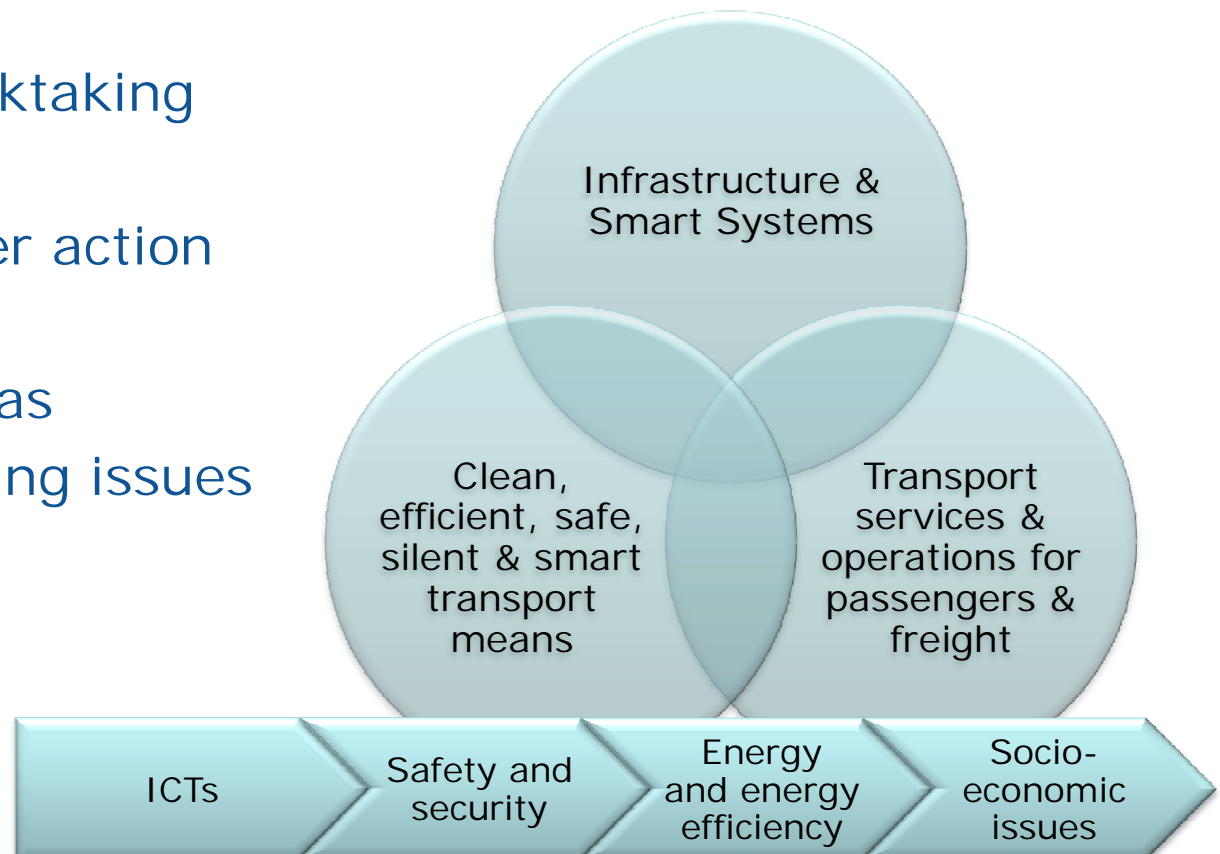
- **Communication: Research and Innovation for Europe's future mobility, Developing a European transport-technology strategy - COM(2012) 501**
- **Staff working document: Preliminary Descriptions of Research and Innovation Areas and Fields, SWD(2012) 260**

DG JRC published two scientific reports:

- *Mapping innovation in the European transport sector*, EC Joint Research Centre, EUR 24771
- *Scientific Assessment of Strategic Transport Technologies*, EC Joint Research Centre, EUR 25211

The communication

- Results of first stocktaking
- Recommendations
- Proposals for further action
- Identifies:
 - Three main areas
 - Four cross-cutting issues



R&I support to the White Paper

- Ten R&I fields

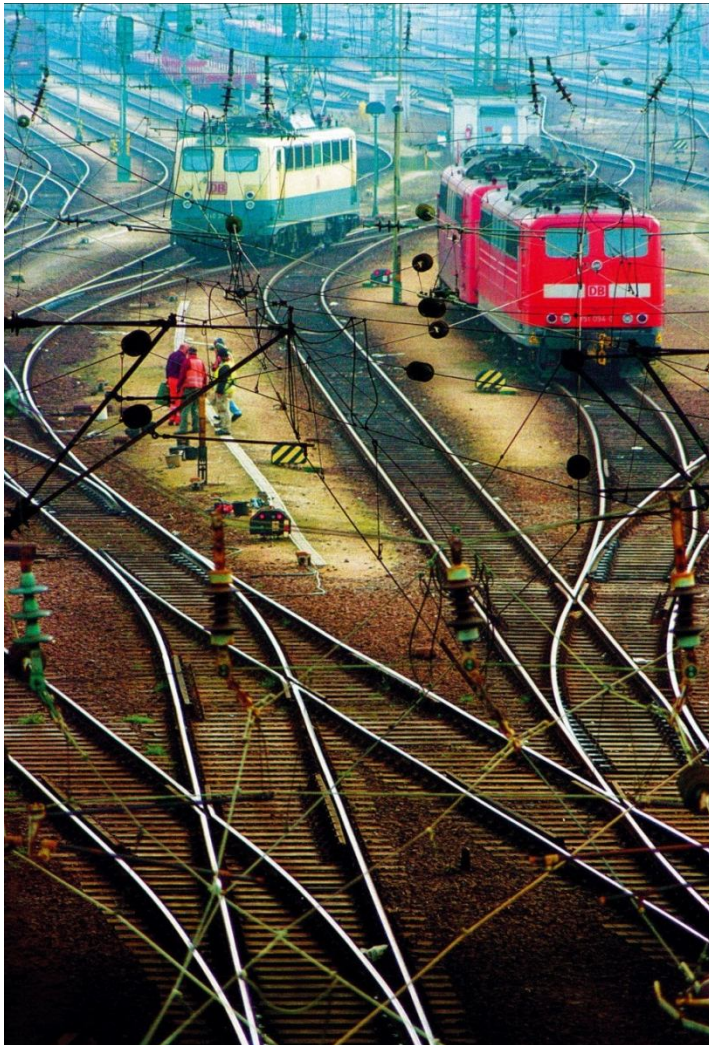


Clean, efficient, safe, quiet and smart transport means	Road vehicles
	Aircrafts
	Vessels
	Rail vehicles
Infrastructure and smart systems	Smart, green, low maintenance and climate-resilient infrastructure
	Europe-wide alternative fuels distribution infrastructures
	Efficient modal traffic- management systems
Transport services and operations for passengers and freight	Integrated cross-modal information and management services
	Seamless logistics
	Integrated and innovative urban mobility and transport

STTP aims at improving the innovation capacity of the sector



- Making transport research and innovation more focused and policy oriented
 - Impact in Horizon 2020,
- Better aligning efforts
- Breaking through technology lock-in
- Efficient deployment of innovative solutions
 - Impact on EU financial/non-financial instruments



Make transport R&I more focused and policy oriented

- Introduce process of common strategic end-to-end programming
- Research and Innovation will be focused on the ten fields identified, for which roadmaps will be prepared

Better align efforts

- Progress on partnerships (public-private and international)
- Improve (integrated) governance of the innovation chain
- Improve monitoring of the development and deployment of innovative solutions (TRIMIS)





Break through technology lock-in

- Exploit convergences between distinct fields (e.g. transport, energy, ICT, etc)
- Design principles and approaches to stimulate entrepreneurship
- Create a new dynamic in transport to make it attractive to talents and entrepreneurs

Ensure efficient deployment of innovative solutions

- Ensure fast and large-scale market uptake and deployment of new technologies
- Improve financial instruments to stimulate diffusion and take up of innovations



The importance of deployment

- Estimated investment needed to achieve emission reduction goals (2010-2030): € 1 trillion
 - This is the amount that EU households spend on transport in one year ...
- The implementation of innovative solutions is needed to achieve policy goals
- How to encourage deployment in future economic climate?

*Stimulating the
**deployment of
innovation** is
necessary in every
priority field*



Next steps to develop the STTP

- Definition of roadmaps towards the deployment for all fields
- With the participation of industrial, public sector and other stakeholders involved
- Estimate financial needs and identify policy needs
- Establishment of a European Transport Research and Innovation Monitoring System (TRIMIS)
- TRIMIS will publicise the agreed roadmaps and report on the progress of their implementation
- Review progress in 2013

ERRAC involvement in STTP

- Initial contacts with ERRAC have already taken place in October 2012
- Development of updated ERRAC's Vision and Roadmap are of very high importance for integration into STTP
- They should cover the **entirety** of all foreseen rail activities, covering both H2020 and Shift2Rail
- Cross-modal aspects to receive special attention
- Input from ERRAC needed before mid 2013



Thank you for your attention!

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http://ec.europa.eu/transport/research/sttp/sttp_en.htm

