

Research and Innovation for Europe's future mobility Developing a Strategic Transport Technology Plan

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The 2011 Transport White Paper

Aims to create a Single European Transport Area:

- With more competition
- Fully integrated transport network
- Leading to a shift in transport patterns for passenger and freight

Key goals include:

- No more conventional cars in cities
- 40% sustainable low-C fuels in aviation
- 40% cut in shipping emissions
- 50% shift from road to rail and waterborne
- 60% cut in CO₂ emissions



The 2011 Transport White Paper

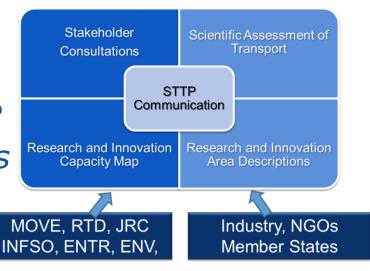
- How to do it: 40 actions
 - Infrastructure development
 - Internal market
 - International cooperation
 - Innovation

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



STTP process and participants

- > Started in winter 2010 involving:
- Relevant European Commission services (MOVE, RTD, JRC,...)
- > Scientific Expert Panel
- > EU Member States
- > Major stakeholders in Europe
- > Iterative consultation process





EC adopted in 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



The Communication

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

Infrastructure & **Smart Systems** Clean, **Transport** efficient, safe, services & silent & smart operations for passengers & transport freight means Energy Socio-Safety and and energy economic security efficiency issues

ICTs



Ten Research and Innovation 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

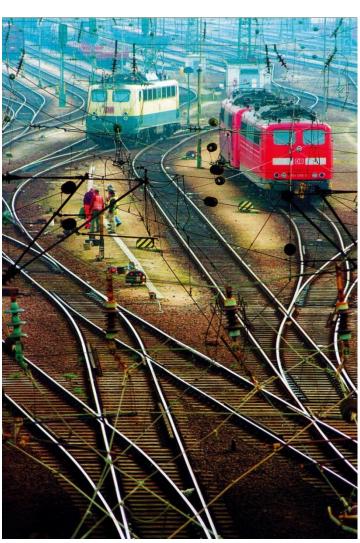


STTP aims at improving the innovation capacity of the sector



- 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 (roadmaps)
- 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 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 continuously



Tentative Priority list for Roadmaps

- Test Case: Electrification of Road Transport
 - Target: "advanced draft" mid-2013
- Subsequent Roadmaps for 2013:
 - Rail
 - Logistics
 - Infrastructure
 - ITS



Roadmap considerations

- STTP Roadmaps will cover following items:
 - Broad stakeholder consultation
 - Not just R&I but including deployment!
 - Look at problems at systems level
 - Links with relevant other roadmaps/areas
 - Targets at intermediate stages
 - Cost estimates



Thank you for your attention!

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

