

THE ROLE OF TRANSPORT TECHNOLOGY PLATFORMS IN FOSTERING EXPLOITATION

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The TIPS project is supported by the European Commission through the Seventh Framework Programme for Research and Technological Development / Coordination and Support Actions (CSA)



Outlines





-  **European Technology Platforms**
-  **ERTRAC**
-  **Czech ERTRAC**
-  **Other national TP**
-  **Technology Agency of the Czech Republic**
-  **Future role of European TP**



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European Technology Platforms (ETPs)

-  **industry-led stakeholder fora**
-  **developing short- to long-term research and innovation actions**
-  **EU and national levels**
-  **combining private and public funding**



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ETPs

- established in 2003 as the response of the European Council call for strengthening European Research Area by "...creating European Technology Platforms bringing together
 - technological know-how,
 - industry,
 - regulators and financial institutionsto develop a strategic agenda for leading technologies."



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Policy objectives

- **Support the development and deployment of the key technologies that are vital to address major economic and social challenges**
- **Define a European vision and a strategic agenda for the development and deployment of these technologies**
- **Support the objective of increasing European private research investment by bringing research closer to industry and improving markets for innovative products**



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Transport oriented ETPs

-  **ACARE - Advisory Council for Aeronautics Research in Europe**
-  **ERRAC - European Rail Transport Research Advisory Council**
-  **ERTRAC - European Road Transport Research Advisory Council**
-  **Logistics - European Technology Platform on Logistics**
-  **Waterborne - Water transport**



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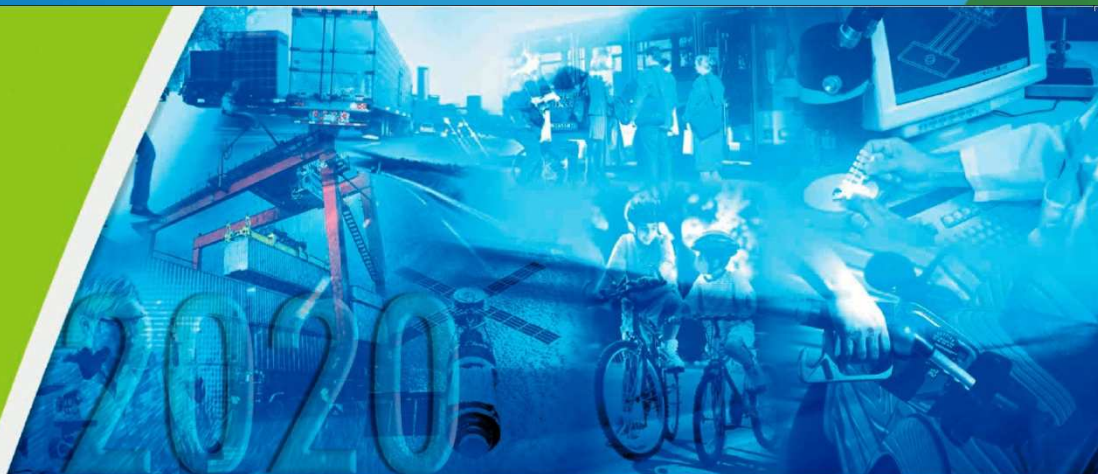
Other transport linked ETPs

- ARTEMIS - Association for R&D Embedded Systems
- EBTP - European Biofuels Technology Platform
- ECTP - European Construction Technology Platform
- EPoSS - European Technology Platform on Smart System Integration
- ZEP – Zero Emissions Platform



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European Road Transport Research
Advisory Council

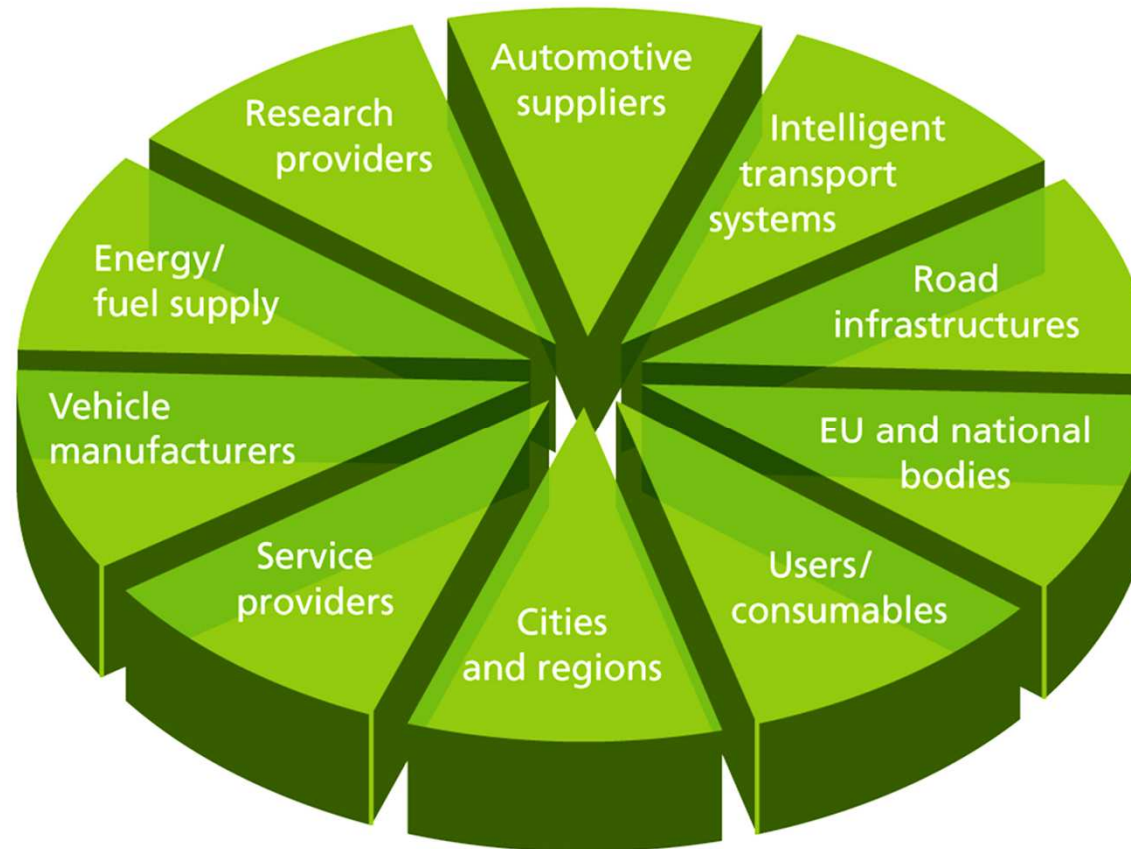
**...towards a greener, safer and smarter
European Road Transport System**



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**All major road transport stakeholders are represented
in ERTRAC through their associations,
together with representatives of the EC and the Member States**



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ERTRAC Position

- Offers unique possibility for wide and heterogeneous spectrum of stakeholders to discuss and to define future research that reflect new chances for competitiveness of industry
- Includes and takes into account important societal issues - safety, environment , energy, mobility



research topics are driven and accepted by both industry and society



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ERTRAC Position

- **Contributes to improving co-operation between EC, national, regional and private R&D actions**
- **Overcomes the fragmentation of road transport research in Europe**
- **Enhances networking and clustering of the R&D capacity in Europe**
- **Through different industry and public stakeholders involved in the research process facilitates technology transfer and implementation of research results**








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ERTRAC Working Groups

Experts coming from the ERTRAC members responsible for the preparation of ERTRAC documents such as the Scenario, the Strategic Research Agenda and the research roadmaps

-  **Urban Mobility**
-  **Long Distance Freight Transport**
-  **Energy & Environment**
-  **Road Transport Safety & Security**
-  **Global Competitiveness**



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Updated by





- **ERTRAC Road Transport Scenario 2030+**
published October 2009
- **ERTRAC SRA 2010**
**Towards a 50 % more efficient road transport system
by 2030**
published October 2010
- **Strategies are implemented by
ERTRAC Research and Innovation Roadmaps
specifying more in details the needs of the key areas
published September 2011**



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Followed by

-  Roadmap Infrastructure for Green Vehicles
-  Roadmap Heavy Duty Truck
-  Electrification Roadmap
-  Land Use and Transport Interactions initiative



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**Results of two last years
lasting effort of ERTRAC
to reflect
the HORIZON 2020
adopting a consistent
system approach and
structuring research
domain according to
Grand Societal Challenges**



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Czech ERTRAC

Národní technologická platforma silniční doprava



 **Founding meeting – Brno , 11 September 2009**



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Founding members

-  Roadmap Infrastructure for Green Vehicles
-  Transport Research Centre - CDV
-  Technical Universities of Prague, Brno, Ostrava, Pardubice
-  Roads and Motorways Directorate
-  Association of Road Transport Operators
-  Czech-Moravian Association of Road Marking
-  Czech Association of Petroleum Industry and Trade
-  South-Moravian Public Transport Management Company
-  Road Design Companies of Prague, Brno
-  Road Administration of Brno City
-  Public Transport Company
-  ITS Producers



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Czech ERTRAC goals

- Liaise the key players in road transport
- Promote sustainable road transport development
- Elaborate strategic vision of road transport development
- Define national strategic agenda, research priorities and timetable of activities
- Stimulate increase of public and private funding of road transport research
- **Support dissemination and implementation of research results**
- Strengthen research cooperation on regional, national and European level
- Extend cooperation and links with ERTRAC



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Czech ERTRAC Working groups

- A. Mobility, road transport and road infrastructure
- B. Safety and security
- C. Energy, environment, resources

Guiding principle
collaboration with other transport modes supporting
an integrated transport system

Outcomes:

-  **Strategic Research Agenda**
-  **Implementation Action Plan**



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Czech transport related TPs

Directly linked to transport:

-  TP Road Transport
-  TP Interoperability of Railway Infrastructure
-  TP Aeronautics and Aerospace

Partly dealing with transport:

-  Strategic Research Agenda
-  TP Biogas
-  TP Hydrogen
-  TP Mechanical Engineering
-  TP Industry Safety



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Memorandum on cooperation of national TP in the Czech Republic

 agreed in December 2013

Strategic Research Agenda

17 different national platforms associating

 **industrial companies and SMEs**

 **universities and research organizations**

 **public authorities and users association involved in the research, development and innovation in strategic technology areas**



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Main tasks

- ❁ **Implementation of strategic documents by initiation of research and development projects in the areas defined in the SRAs and IAPs as the key to future competitiveness and sustainable development**
- ❁ **Establishing a systematic collaboration with the research providers, particularly with the Technology Agency of the Czech Republic**
- ❁ **Strengthening the cooperation of industrial enterprises, especially SMEs, research and educational institutions to apply their knowledge of science and research in specific innovative products and services**



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Technology Agency of the Czech Republic (TA CR)



 an organizational unit of the state, founded in 2009

The main role of TA CR is to prepare and implement programs of applied research experimental development and innovation thereby contribute to increasing competitiveness and economic growth in the Czech Republic

Programmes:

ALFA, BETA, GAMA, DELTA, OMEGA, COMPETENCE CENTRES, EPSILON



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Programme ALFA



**In cooperation with Ministry of Industry and Trade,
Ministry of Transport and Ministry of Environment**

Main aim is to significantly increase the quantity and quality of new knowledge in applied research and experimental development in the areas of advanced technologies, materials and systems, energy resources, protection and creation of the environment, and sustainable development of transport, which will be applicable in the form of innovation



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Programme ALFA



Types of results:

- patents
- pilot operation
- proven technology results with legal protection - utility models, industrial designs**
- technically realized results - prototypes, functional samples**
- certified methodologies and procedures**
- maps with expert content**
- software**



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Process to transform the research results

As integral part of the project proposal has to be submitted **the need for the project and the way how the results will be implemented**. This has to be documented by customer demand and Declaration of interest to apply the project results by the future user/s

Project leader is required not later than the final report to elaborate and approve the **plan of implementation of the results in practice**. Before the end of the project he has to submit to the provider **contract for the use of project results**

The evaluation of the contract has to follow at least 3 years



Future role of European TPs

European Commission

recognises the role of European Technology Platforms (ETPs) as part of the external advice and societal engagement, needed to implement Horizon 2020

Brussels, 12.7.2013, SWD(2013) 272 final

COMMISSION STAFF WORKING DOCUMENT

STRATEGY FOR EUROPEAN TECHNOLOGY PLATFORMS:

ETP 2020



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Vision

ETP will

- be a key element in the European innovation ecosystem
- help turn Europe into an Innovation Union
- have to take a holistic view identifying the pathway to commercial deployment of research
- provide strategic insights into market opportunities and needs
- mobilise and network innovation actors across the EU

in order to enable European companies gain a competitive advantage in global markets



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Mission

ETP will

- develop strategies
- provide a coherent business-focused analysis of research and innovation bottlenecks and opportunities
- mobilise industry and other stakeholders within the EU to work in partnership and deliver on agreed priorities
- **share information and enable knowledge transfer to a wide range of stakeholders across the EU**



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Core activities

- developing Strategic Research and Innovation Agendas, technology roadmaps and implementation plans
- encouraging industry participation in Horizon 2020
- helping widen participation
- identifying opportunities for international cooperation
- facilitating future collaboration
- providing networking opportunities with other ETPs
- facilitating the formation of new partnerships that utilise ETP expertise and that can work together to exploit the outcomes of a research project



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**European and national
technology platforms create
an efficient environment
for transformation
of research results
into innovative products and services**



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Thank you very much for your attention

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