

TECHNOLOGICKÁ PLATFORMA



SILNIČNÍ DOPRAVA



EVROPSKÁ UNIE  
Evropský fond pro regionální rozvoj  
Operační program Podnikání  
a inovace pro konkurenceschopnost



MINISTERSTVO  
PRŮMYSLU A OBCHODU

# Technology platform for road transport, national research programmes and HORIZON

## 2020 EU Framework

### Programme

Ing. Václav Fencel, CSc.





## Technology platform for road transport (TPSD)

One of several national platforms in transport – platform for railway infrastructure, platform aviation and astronautics, platform for sustainable mobility.

TPSD was founded in September 2009 by 15 main stakeholders in road transport (SMEs, research organizations, universities and associations).

Main task is to develop strategic research agenda for road transport and implementation action plan  
The complementary task is cooperation with the ERTRAC – European Road Transport Research Advisory Council.



## European technology platform in transport

- Advisory Council for Aviation Research and Innovation in Europa (ACARE)
- European Rail Research Advisory Council (ERRAC)
- European Road Transport Research Advisory Council (ERTRAC)
- European Technology Platform ALICE (Alliance for Logistics, Innovation through collaboration in Europe)
- Waterborne



## Technology platform for road transport (TPSD)

- TPSD had been supported by the operational programme Business and Innovation, which was governed by the Ministry of Industry and Trade, in the period

1.3.2010- 28.2.2013

Two important documents had been submitted in this period:

Strategic research agenda for road transport and implementation action plan

and presented to the research community on several workshops.



## Technology platform for road transport (TPSD)

Second period of support from the operational programme Business and Innovation:

1.3.2013 – 31.12.2014

Main tasks – updating of two strategic documents and joint activities focusing to submit project proposals to national and international research programmes.

Eleven national proposals and one international proposal to EU 7Framework Programme

TPSD had been involved in the ERA NET TRANSPORT III, project of 7Framework Programme, which terminated on 30.4.2016

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## Technology platform for road transport (TPSD)

13 members

Transport research centre

Four universities: Technical university of Brno, Czech technical university of Prague, University of Pardubice, Institute of technology and business in České Budějovice

Five innovative companies: VARS Brno, OLTIS GROUP, KYBERTEC, IDIADA CZ, HBH Project

Two associations: Czech Association of Petroleum Industry and Trade (ČAPPO), Association of electric cars industry

One state company: Czech road and highway administration



## Technology platform for road transport (TPSD)

Eight working groups

- Mobility
- Road infrastructure
- Intelligent transport systems
- Road transport safety
- Alternative fuels for road transport
- Road transport and environment
- Electromobility
- Automated drivless systems



## Technology platform for road transport (TPSD)

Operational programme Business and Innovation for Competitiveness for the period 2014 -2020 had been launched.

TPSD has submitted the project proposal.

Evaluation is running and will be known on the end on the year 2016.

Main tasks:

Technology foresight for road transport

Cooperation with ERTRAC and submitting projects to European research programmes (HORIZON 2020)

Updating Strategic research agenda and

Implementation action plan





## Main national research programme owners and managers

Technology Agency of the Czech Republic (TACR)

The GAMA Programme: The programme aims to support the verification of the results of R&D&I in terms of their practical application and to prepare their subsequent commercial use.

The DELTA programme is aimed at supporting collaboration R&D&I through joint projects of enterprises and research organizations supported by the TACR and major foreign technological and innovation agencies. (New and Renewable Energy Centre – Korea Energy Management Corporation and some others.



## Main national research programme owners and managers

- The EPSILON programme aims to support projects, whose results have a high potential for rapid application in new products, production processes and services.
- The OMEGA programme aims to strengthen research activities in the area of applied social sciences.
- The Competence Centre programme aims to support the establishment and operation of centres for research, development and innovation in advanced fields with high application and innovative potential.



## Main national research programme owners and managers

- The programme ZETA focuses on supporting cooperation between the academia and companies by putting together students of magister and doctorate study programmes at universities and young research workers aged up to 35.



## Main national research programme owners and managers

Ministry of Industry and Trade (MPO)

The TRIO programme aims to support R&D&I in areas of Key Technologies (KETs) as photonics, micro- and nanoelectronics, nanotechnology, industrial biotechnology, advanced materials and advanced manufacturing technology.

The MPO is a governing body of the operational programme Business and Innovation for Competitiveness (PIK), period 2014-2020



## Main national research programme owners and managers

Ministry of education, youth and sports (MŠMT)

Several programmes supporting international cooperation like Czech-Norwegian Research Programme and others

MŠMT is a governing body of the operational programme Research, Development and Education (VVV)



## Main national research programme owners and managers

Ministry of interior (MV)

Program security research for state needs

The program is designed to fulfill the specific research needs of the state administrations involved in the implementation of tasks within the system of internal security and protection of Czech population.

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## International research programmes EU

HORIZON 2020 EU Framework Programme  
for Research and Innovation, 2014-2020

A budget of € 77 billion for 7 years

A core part of Europe 2020, Innovation Union  
and the European Research Area



## HORIZON 2020

1. European Research Council (ERC) - Frontier research by the best individual teams
2. Future & Emerging Technologies (FET) Collaborative research to open new fields of innovation
3. Marie Skłodowska-Curie actions - Opportunities for training & career development
4. Research infrastructures - Ensuring access to world-class facilities





## HORIZON 2020

### I. Excellent science

1. European Research Council (ERC) - Frontier research by the best individual teams
2. Future & Emerging Technologies (FET)  
Collaborative research to open new fields of innovation
3. Marie Skłodowska-Curie actions - Opportunities for training & career development
4. Research infrastructures - Ensuring access to world-class facilities



## HORIZON 2020

### II. Industrial leadership

1. Leadership in enabling & industrial technologies (ICT, nanotechnologies, materials, biotechnology, manufacturing, space)

2. Access to risk finance

Leveraging private finance & venture capital for research & innovation

3. Innovation in SMEs

Fostering all forms of innovation in all types of SMEs



## HORIZON 2020

### III. Societal challenges

1. Health, demographic change & wellbeing
2. Food security, sustainable agriculture & forestry, marine, maritime & inland water research
3. Secure, clean & efficient energy
- 4. Smart, green & integrated transport**
5. Climate action, environment, resource efficiency
6. Europe in a changing world – Inclusive, innovative & reflective societies
7. Secure societies – Protecting freedom & security of Europe & its citizens

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**Thank you for your attention**

Ing. Václav Fencel, CSc., secretary

[vaclav.fencel@tpsd-ertrac.cz](mailto:vaclav.fencel@tpsd-ertrac.cz)

[www.tpsd-ertrac.cz](http://www.tpsd-ertrac.cz)

Ing. Václav Fencel, CSc., [vaclav.fencel@tpsd-ertrac.cz](mailto:vaclav.fencel@tpsd-ertrac.cz),