

Centrum dopravního výzkumu, v. v. i. (Transport Research Centre)



Basic information

- established: 1992 (successor of the Czech departments of Transport Research Institute in Žilina, which was established in 1954)
- public research institutions since 2007
- since 2014 on the list of expert institutes in the fields of:
 - urban transport and road transport,
 - traffic psychology,
 - the impact of transport on the quality and air cleanness,
 - air protection from effects caused by transport,
 - transport construction, engineering construction, building materials,
 - measurement and evaluation of noise pollution from traffic.
- address: Líšeňská 33a, 636 00 Brno, Czech Republic



Institution activities

- research and development activities at national level for all modes of transport,
- cooperation with the Ministry of Transport, Ministry of Environment, Ministry of Interior, and Ministry of Regional Development, etc.,
- benefits for development of transport sector,
- conceptual, methodological, information services for the Ministry of Transport with additional activities,
- application of knowledge of research and consultancy services to operators in the transport sector,



Institution activities

- cooperation with commercial companies,
- international cooperation - e.g. UK, USA, Norway, China, Slovakia, Germany,
- membership in international associations – ECTRI, FERSI, FEHRL, POLIS, ICTCT, ETSC, ELITE, THE PEP, HUMANIST VCE, SAE, ERTRAC, ASCE, TRB, ASTM, ELCF, FGSV,
- support of central government authorities in the working bodies of international organizations - JTRC OECD, IRTAD, ISO, CEN, PIARC.



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Quality management system ISO

Introduced a quality management system for basic (research and service) activities according to international criteria ISO 9001: 2009.



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The main thematic areas of the Transport Research Centre

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Thematic area of the transport development

Main activities:

- development of the transport sector,
- processing of expert opinions for the Ministry of Transport,
- providing assistance to the authorities, procuring special state supervision,
- GIS (geographic information systems) and ITS (intelligent transport systems),
- engaged in the telematics information devices - eg. for transport regulation is used the mobile system of line transport management.





Transport development

Thematic area of the transport infrastructure and the environment

Main activities:

- solution of projects aimed at rationalization of the design, construction, maintenance and repair of roads, railway construction and bridges,
- data processing for technical policy, diagnostics and evaluation of operational and technical conditions,
- emissions from traffic and measures to reduce it,
- legislation, standards and technical regulations in the field of transport infrastructure.



Transport infrastructure and the environment



Thematic area of the road safety and traffic engineering

Main activities:

- traffic safety and traffic calming,
- road safety expertises and analysis,
- road safety audits and inspections,
- solutions of black spot,
- transport system concepts,
- promotion of walking and cycling,
- economic analysis,
- since June 2012 Accredited training of auditors roads safety.





Road safety and traffic engineering



Laboratory of traffic signs and traffic accidents

- Accredited laboratory No. 1669
 - Testing of optical properties of vertical traffic signs and horizontal road markings, roughness / skid resistance character of the road surface and horizontal road marking and measuring of the dimensions of vehicles.
- Tests performed:
 - Measurement of the coefficient of retroreflection,
 - light Metering,
 - Measurement of trichromatic coordinates and luminance factor,
 - Measurement of specific coefficient of luminous intensity,
 - Measuring the brightness factor in diffuse lighting,
 - Roughness measurement / skid resistance character,
 - Measurement of the basic dimensions of vehicles.

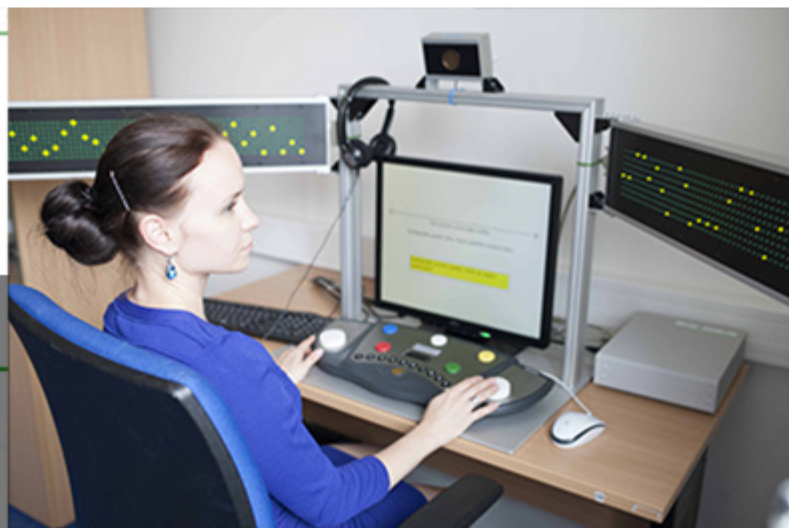


Thematic area of the human factor in transport and transport modelling

Main activities:

- traffic safety in terms of subscriber traffic,
- transportation planning and traffic modeling,
- traffic management,
- urbanism and urban sociology,
- provides rehabilitation and prevention programs for drivers.





Significant results

- 4/2014 – 11/2015 create the Transport Master Plan (strategic planning document with overview over traffic development for next 25 years), for the city of Bratislava, the capital city of Slovak republic,
- formation the National Road Safety Strategy for 2011-2020 - the strategy sets up the goals, basic principles and designed specific measures focusing on significant reduction of road accident rate on Czech roads,
- preparation, performance and evaluation of the National Traffic Census 2010.



Significant results

Close-proximity noise measurements

Development of the CPX trailer, Opened two wheel trailer, The only CPX trailer in the Czech Republic. Measurement using Standard Reference Test Tires (SRTT) - P225/60R16 97S specified in ASTM F2493-08.



Significant results

AlgaTox – eco-toxicity measurements

Device for rapid measurement of eco-toxicity, based on oxygen production by algae. It was developed by BVT Technologies and Transport Research Centre.



Significant results

Laboratory geotechnical testing field – version 2

Full scale testing of subbase layers with innovative system for control of water level and monitoring of changes in amount of water in the structure.





Thank you for your attention.

Jiří Jedlička

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