

Vienna, Austria

AIT Austrian Institute of Technology

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Veronika Praendl-Zika, Research Funder

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ABOUT US

AIT – Austrian Institute of Technology

The AIT Austrian Institute of Technology takes a leading position in the Austrian innovation system and a key role in Europe as the RTO focusing on the key infrastructure topics of the future.

Shareholder of AIT is the Republic of Austria with its Ministry for Transport, Innovation and Technology and the Federation of Austrian Industries.

AIT with its 1.200 employees provides research and technological development to realize basic innovations for the next generation of infrastructure related technologies in the fields of Health & Environment, Energy, Mobility and Safety & Security. These technological research areas are supplemented by the competence in the area of Innovation Systems.

The **AIT Mobility Department** develops efficient, safe and green mobility solutions and focuses on the following topics: Improving transport infrastructure in terms of increased safety and cost-efficiency in the context of operation and maintenance, optimising co-modal transport systems, which encompass all forms of transport (pedestrian, individual and public transport), as well as developing integrated vehicle concepts featuring electric drive concepts and lightweight construction technologies, both of which are key technologies.

The Mobility Department's **Transportation Infrastructure Technologies Business Unit** is focused on research on safe, efficient and environmentally sustainable structuring of transport infrastructure.

Using ultra-precise measuring data on road conditions, route mapping, road space and the structural behaviour of the infrastructure, the team of around 30 researchers carries out infrastructure-based analyses and simulations geared towards improved road safety, cost-effective maintenance management and the greater environmental sustainability of the infrastructure. Furthermore, a high-quality laboratory infrastructure is in place for the validation of simulations and the development of models and algorithms.

Combining data on road conditions with data on accident statistics and also with vehicle-based parameters multiplies the available options in terms of infrastructure-based transport safety analyses and accident prevention. The analysis of the dynamic behaviour of the transport infrastructure, e.g. bridges and critical infrastructures such as hospitals, as well as the modelling and simulation of acoustic properties and emissions, are high priorities.

AREAS OF ACTIVITY

Market application

- Automated Road Transport
- Safety
- Infrastructure

H2020 2017 Call Topics - Automated Road Transport

- ART-03-2017: Multi-Brand platooning in real traffic conditions
- ART-07-2017: Full-scale demonstration of urban road transport automation

H2020 2017 Call Topics - Safety

- MG-3.2-2017: Protection of all road users in crashes

H2020 2017 Call Topics - Infrastructure

- MG-7.1-2017: Resilience to extreme (natural and man-made) events
- MG-7.2-2017: Optimisation of transport infrastructure including terminals
- MG-7.3-2017: The Port of the future