Road safety

Road safety is one of the central themes of the 2018 TRA. Efforts to increase the safety of our transport networks and thus reduce the risk of accidents as far as possible are ongoing.

SAFE

As part of the SAFE project, safety analyses and evaluations of measures to increase road safety are carried out. The SAFE work flow begins with the analysis of an accident based on various data, such as data relating to the weather, vehicle dynamics data, infrastructure etc.
As a result, risk models can be created and, using these models, predictions made for the causes of accidents. Ultimately, this serves as a basis for developing accident prevention measures, as well as measures to identify potential causes of accidents and record near-accidents.

Mobility Observation Box

This research project from the AIT has set itself the task of improving the safety of road users on pedestrian crossings. Using complex algorithms, the Mobility Observation Box records all pedestrians and drivers on protected crossings. In particular, the willingness of drivers to stop their vehicles is observed. However, the behaviour of pedestrians is also evaluated. According to Peter Saleh, senior research engineer at the AIT Center for Mobility Systems, "The Mobility Observation Box transforms unregulated pedestrian crossings into proper protected paths."

ASSESS

As part of the ASSESS project, building structures are monitored and their weaknesses identified in order to eliminate potential risk factors and increase safety. In the area of mobility, this concerns infrastructure such as bridges.
These can be monitoring be installing permanent sensors, which enable detailed data reporting and perform automatic evaluations. In this way, warnings can be sent in the event of limits being exceeded. Risk factors such as traffic footprint, aging and natural hazards or vibrations can be presented and, as a consequence, the transport network made safer.

DigiTrans

DigiTrans is a project comprising a test circuit for self-driving cars in Austria. Besides ALP.lap in the federal state of Styria, DigiTrans is the second test area for self-driving cars in Austria to be funded by the federal government. The aim of the project is to address the demands of industry and infrastructure managers, while taking account of digitisation and logistics aspects. At the AIT, DigiTrans is a prime example of a cross-centre activity: this means that the expertise of various centers is pooled, which is decisive for the success of the project.