

Abstract

Technology ecosystem of automated driving

Automated driving can be considered as the consequential development of advanced driver assistant systems (ADAS) with environment perception, increasingly including the communication between vehicles and vehicles to the infrastructure. Higher levels of automation will enable the driver to hand over the driving task to the system, with a large number of handover scenarios. Such developments comprise a tight interplay of cooperative systems of sensors, data, redundancy and decisions as well as regulatory settings, user experienced and acceptance – to reach ultimate goals: better safety, efficiency, sustainability and comfort.

Starting with AIT's role as one central player in the national action plan, this talk will briefly revisit central outcomes and current related activities for conceptualization and realization of testbeds for automated driving with AIT as a partner, in order to overview selected today's research and applied scientific methods and technologies at AIT for the integrated development and utilization of automated and connected vehicles for the mobility of tomorrow.