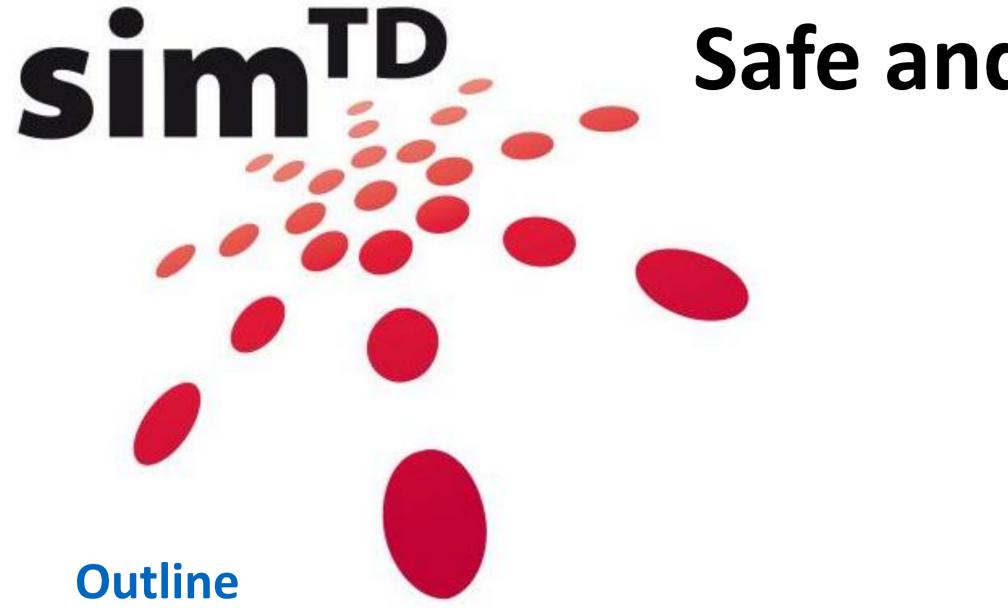


Asociación Argentina de Carreteras

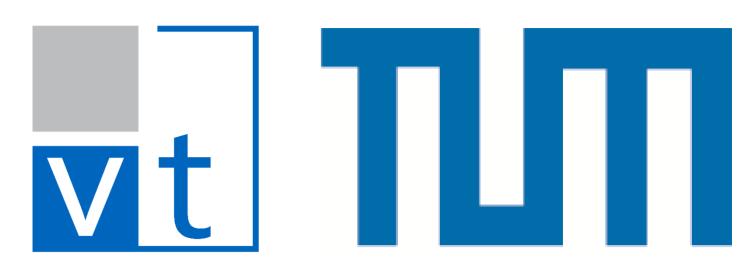




November 6th - 8th, 2013 Hotel Panamericano – City of Buenos Aires, Argentina **"URBAN MOBILITY, ROADS NETWORK OPERATION AND ITS APPLICATIONS"**



Safe and Intelligent Mobility **Test Field Germany**



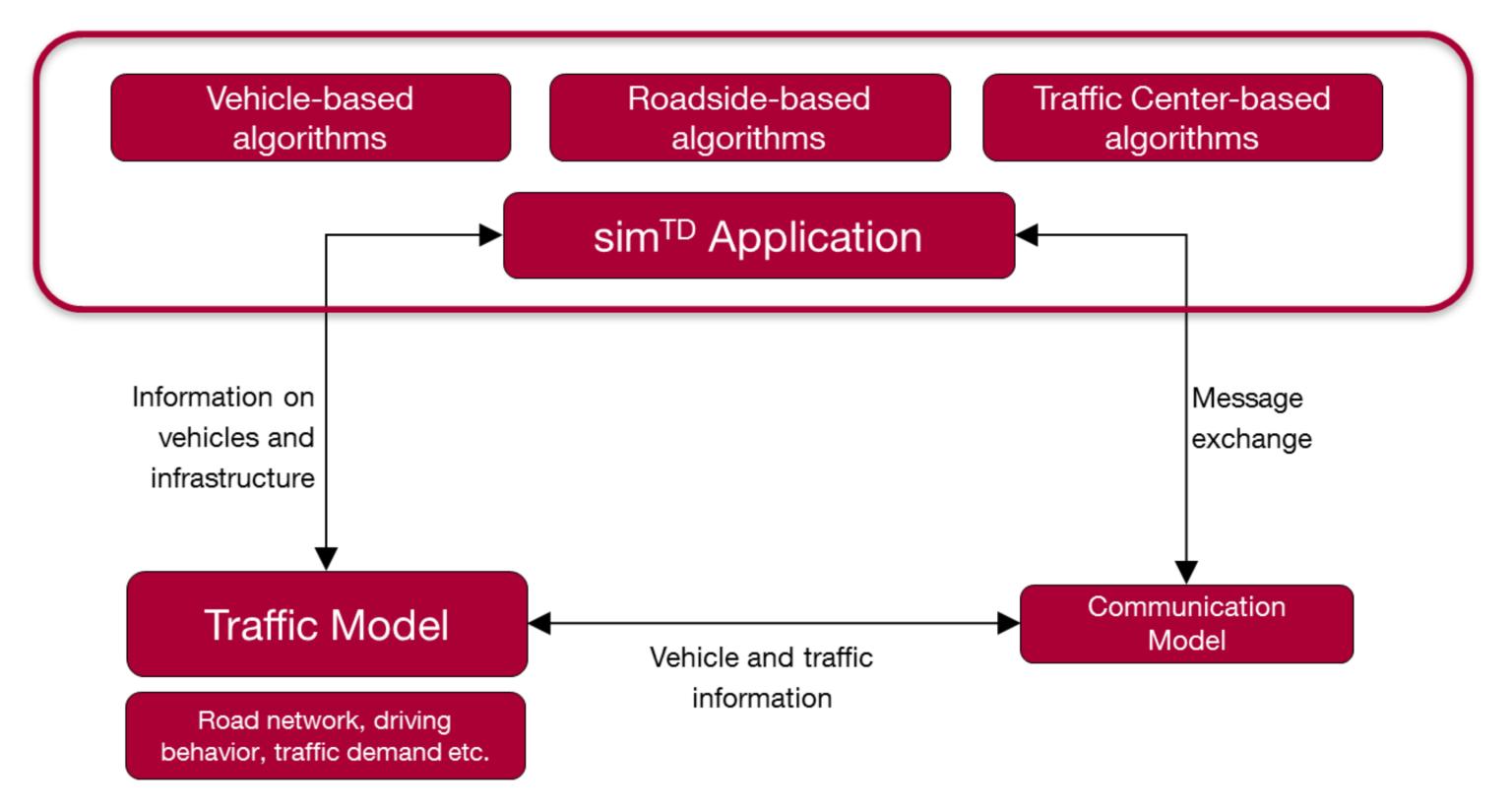
Technische Universität München Chair of Traffic Engineering and Control Prof. Dr.-Ing. Fritz Busch

Components of the sim^{TD} Traffic Simulation

The research project **sim^{TD}** has shaped tomorrow's safe and intelligent mobility in Germany/Europe through research and testing of car-to-car and car-to-infrastructure communication and its applications. sim^{TD} has put the results of previous research projects into practice. For this purpose realistic traffic scenarios were addressed in simulation (driving and traffic simulation) and a large-scale field operational test that included the infrastructure around the city of Frankfurt am Main. The project paved the way for a political, economic and technological framework to successfully set up car-to-x networking.

Objectives

- Increasing road safety and improving traffic efficiency through the use of car-to-x communication.
- Defining and validating of a roll-out scenario for the lacksquareapplications through practice-oriented experiments and field operational tests.



Traffic Simulation

In addition to real world tests, the traffic experts from TUM have determined the effects of the sim^{TD} applications on traffic flow and road safety i.a. by means of traffic simulation. They analyzed the impact of different applications on the traffic system as a whole, particularly for different penetration rates in comparable situations and with well-defined traffic demands.

- Developing of test and validation metrics and methods in order to allow measurement and evaluation of the results.
- Consolidating harmonizing of feasibility and and lacksquareperformance requirements as well as ensuring their compatibility.
- Verifying of functions and requirements within the context of individual milestones.

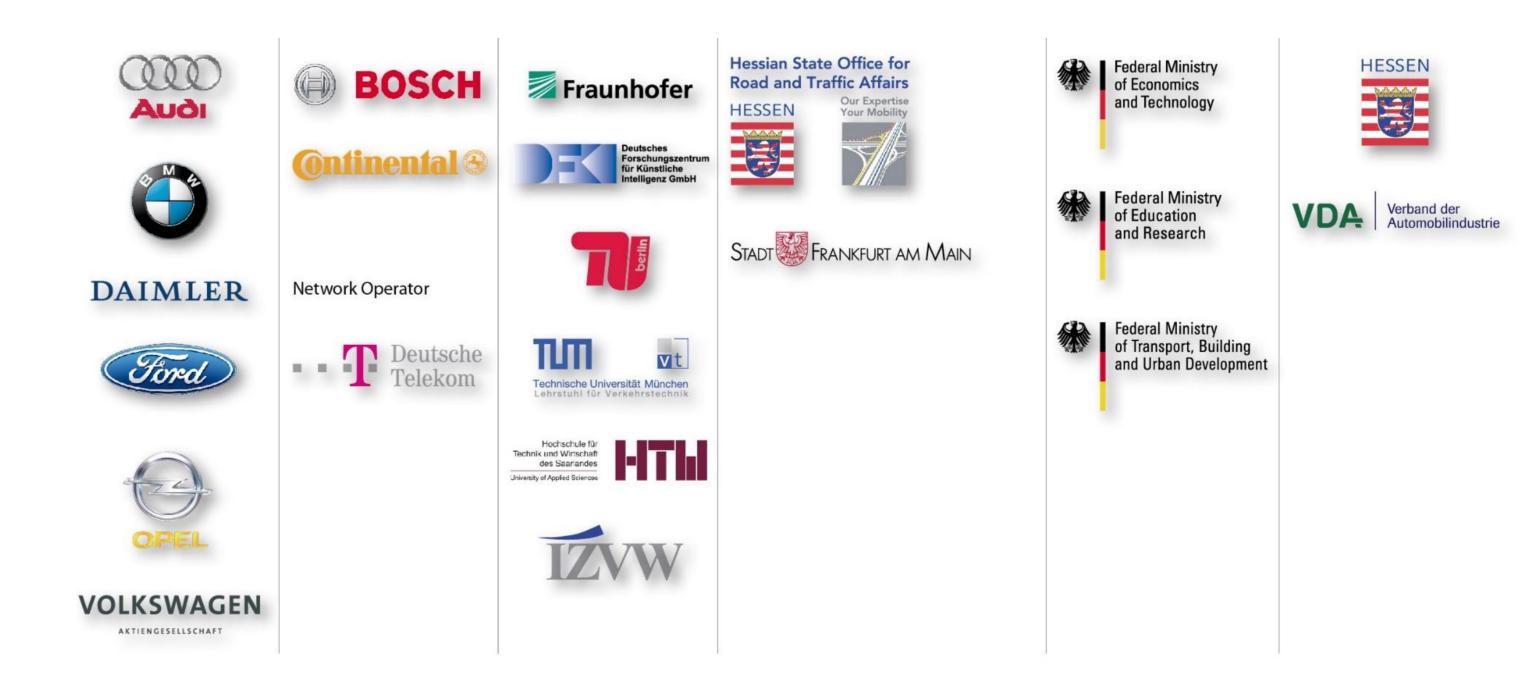
The sim^{TD} Test Field



The results show:

- that Car-to-X based warnings have a positive effect on traffic flow and road safety.
- With dynamic routing advices travel times can be reduced **significantly** and
- that **Car-to-Infrastructure communication** at intersections i. e. communication with traffic signals – can improve traffic efficiency.

Partners



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