

PRE-DRIVE C2X

Preparation for driving implementation and evaluation of C2X communication technology



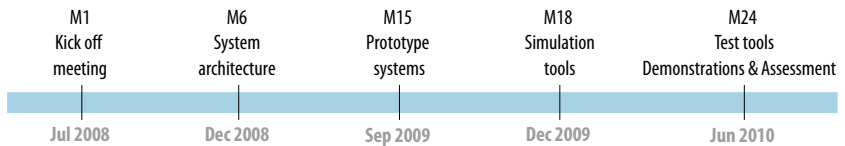
Motivation and Objectives

PRE-DRIVE C2X prepares a large scale field trial with vehicular communication technology. Based on the common European architecture for a vehicle to x communication system, defined by the task force on cooperative systems led by COMeSafety, PRE-DRIVE C2X develops a detailed specification for such a system and a functionally verified prototype robust enough to be used in future field operational tests.

All tools and methods necessary for functional verification and testing of cooperative systems in laboratory environment and on real roads in the framework of a field operational test will be developed.

Project Plan, Milestones and Deliverables

The figure conveniently summarises the results for PRE-DRIVE C2X to pave the road towards a Europe-wide implementation of vehicle-to-x communication technology from a safe and sustainable mobility.

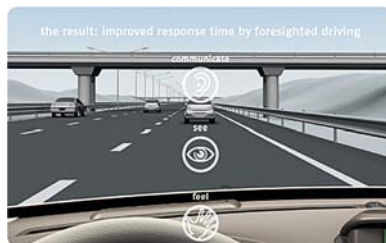


Technical Approach

- Development of a consistent system architecture for European cooperative driving systems
- Commonly agreed use cases for V2X communication systems
- Development of an integrated simulation tool set to assess all aspects of V2X
- Robust hardware and software components suitable for use in field operational tests.
- Verified methods and tools for field operational test with V2X.
- Demonstration, functional verification and impact assessment of the Common European Architecture on V2X.

Achievements

- WP1000: Consolidation of the harmonized European ITS communication architecture for cooperative systems: PRE-DRIVE C2X supports and leverages the benefits of the architectural concepts and provides important measures to validate the architectural concept that is considered by ETSI TC ITS for standardisation.
- WP2000: PRE-DRIVE C2X provides an integrated tool set that allows a complete simulation and evaluation of the impacts of cooperative systems.
- WP3000: PRE-DRIVE C2X identified and specified the components that are not yet available and selected the most promising among the existing ones to develop relevant use cases for safe, efficient and clean mobility.
- WP4000: PRE-DRIVE C2X provides a comprehensive testing infrastructure to support all aspects of system's verification and validation.
- WP6000: Towards future deployment of cooperative systems: two stakeholders' workshops have been successfully organised with the active participation of all relevant stakeholders.



Organisational Information

Budget	8.43 M€	Funding	5.02 M€
Duration	24 months	Start	July 2008
DG	Information Society and Media	Priority Area	ICT for Transport
Coordinator	Matthias Schulze, DAIMLER	Contact	matthias.m.schulze@daimler.com
Partners	24 partners among them AUDI, BMW F&T, CR FIAT, DAIMLER, OPEL, VW, VOLVO Tec., Delphi, Hitachi, NEC, Renesas, SAP, PTV, ...		
Website	www.pre-drive-c2x.eu		