

# DRIVE C2X

Accelerate cooperative mobility, connecting vehicles and infrastructure for safe, comfortable and green driving



## Motivation and Objectives

DRIVE C2X carries out a comprehensive assessment of cooperative systems through field operational trials. The project is unique in bringing together seven test sites representing the variety of European traffic scenarios and regional demands.

The results of this large-scale environment are intended as a reference for C2X systems to be deployed across Europe. The project will raise awareness for this technology, provide input for standardisation, evaluate the impacts on future mobility and initiate public-private ventures preparing market introduction.

## Project Plan, Milestones and Deliverables

	2011				2012				2013			
	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4
SP1 Manage	Management											
SP2 Prepare	FOT framework specification											
SP3 Operate	Test site adaption											
					Piloting		User, fleet & data management					
SP4 Evaluate	Evaluation framework specification				Harmonization & quality assurance of data							
					Impact assessment and user acceptance							
SP5 Promote	Dissemination and liaison											
	Standardization											
	Business models and deployment											

M06: DRIVE C2X methodology framework available.

M12: DRIVE C2X vehicle integration and interoperability checks completed.

M18: Pilot tests completed and test sites ready for operation.

M30: Test site operations completed.

M36: Data analysis completed, results documented.

M36: Detailed roadmap for deployment of cooperative systems available.

## Technical and Methodological Approach

- The DRIVE C2X reference system is the technological foundation for the field operational trials on seven European test sites. It is based on the outcomes of the predecessor project PRE-DRIVE C2X and enhanced to incorporate the latest developments in ETSI standardisation.
- DRIVE C2X unites different technologies: the system uses IEEE 802.11p-based DSRC technology, complemented by cellular communication, and incorporates ad-hoc networking.
- The experimental procedure is designed to provide consistency across the seven test sites. It specifies a systematic approach across all FOTs and combines state-of-the-art FESTA methods with the experience gained in euroFOT, TeleFOT and national projects.
- The evaluation framework includes the collection of subjective and objective data, the identification of research questions, testable hypotheses and performance indicators.



Budget	18.92 M€	Funding	12.40 M€
Duration	36 months	Start	January 2011
DG	INFSO / G4 – ICT for Transport	Contract n°	270410
Coordinator	Matthias Schulze, Daimler AG	Contact	matthias.m.schulze@daimler.com
Partners	32 partners, among them Audi, BMW, CRF, Daimler, Ford, Opel, PSA, Renault, Volvo Cars		
Website	www.drive-c2x.eu		