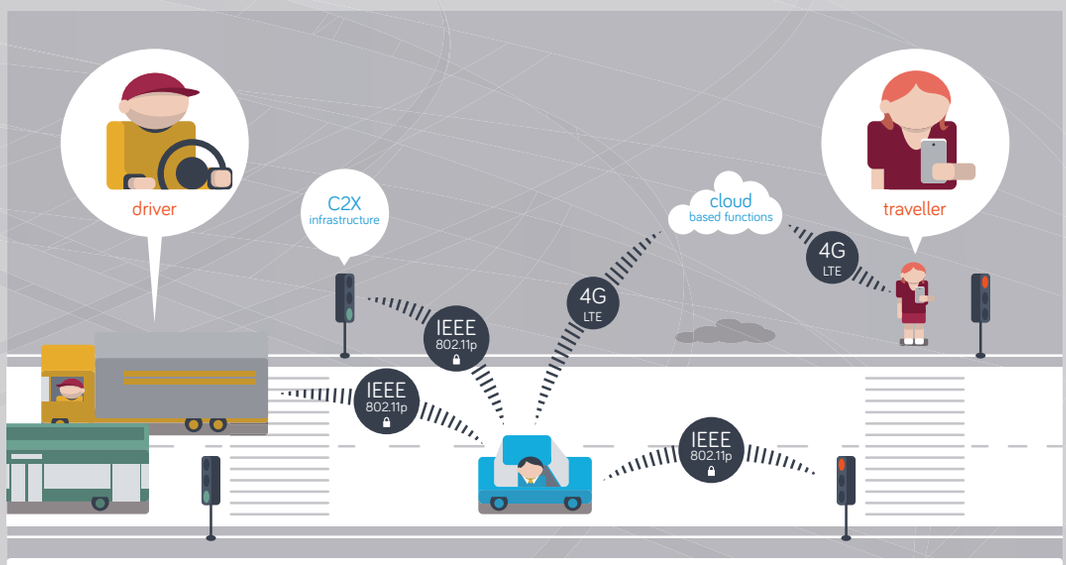
TEAM is a European research project that turns static mobility into elastic mobility. Drivers, travellers and infrastructure operators are brought together in a collaborative network that balances individual mobility needs.

www.collaborative-team.eu

TEAM
Tomorrow's Elastic Adaptive Mobility

Vision



Nowadays vehicles and infrastructure already communicate in intelligent transport systems (ITS). TEAM will also integrate smart phones and cloud services, allowing drivers and travellers to participate. The involvement of interacting participants moves vehicle-2-x systems from cooperation to collaboration. Drivers, travellers, vehicles and infrastructure will act as a "team". Their adaptive behaviour will create mobility conditions, so-called elastic mobility.

Main objectives

1. Collaborative decision making and optimisation algorithms
2. Create technology building blocks for the automotive cloud
3. Real-time alignment of needs
4. Participation of drivers and travellers
5. Quantify the technical performance and impacts
6. Promote collaborative mobility

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Expected results

The expected technical innovations include:

- Novel distributed "best-effort" sensing and optimisation algorithms.
- Cloud-based local dynamic map services and associated communication technologies.
- Off-and on-board telematic services and in-vehicle smart phone integration.
- Coaching mechanisms for green travelling.

TEAM applications

TEAM is developing novel collaborative applications for driving and for travelling. Collaboration is the key concept where drivers, travellers and infrastructure operators are dynamically interacting with each other. They are forming a collaborative network to address mobility challenges of modern life. The active collaboration is enabled by advanced technologies – such as automotive cloud services – that are developed in the project. The applications range from collaborative ACC and driving to co-modal route planning and public transport optimisation. The project builds upon and looks beyond the deployment of day 1 applications often discussed in the European C-ITS community.

Timeline and milestones

M1	Use cases defined	April 2013
M2	System requirements specified	June 2013
M3	System specification defined	December 2013
M4	Basic system and enabling technologies integrated	October 2014
M5	TEAM applications integrated	October 2015
M6	Euro-EcoChallenge completed	May 2016
M7	Exploitation options determined	October 2016

PROJECT COORDINATOR Ilja Radusch, Fraunhofer FOKUS

PROJECT PARTNERS
OEMs: BMW Forschung & Technik, Centro Ricerche Fiat, Volvo Technology
ICT: Cosmote, Delphi, Intel, Intel Mobile Communications, HERE, NEC, NXP, RE:Lab, Telecom Italia
Infrastructure: 5T, e-Trikala, Infotrip, Ramboll, Swarco Mizar, Swarco Traffic Systems
Research: Austrian Institute of Technology, Create-Net, Fraunhofer FOKUS & IAO & IZB, Institute of Communication & Computer Systems (ICCS), National University of Ireland, TU Berlin COGA & DCAITI, University of Genoa, VTT
Other: EICT

SUPPORTER EUCAR European Council for Automotive R&D

FACTS **Duration:** 48 months (01/11/2012 – 31/10/2016) **Total budget:** 17.1 M€, thereof 11.1 M€ EU funding
Programme: 7th EU Framework Programme, DG Connect, Integrated Project (IP)

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