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.c collaborative-team.eu

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
**Expected results**

The expected technical innovations include:

- Novel distributed “best-effort” sensing and optimisation algorithms.
- Off-and on-board telematic services and in-vehicle smart phone integration.
- Cloud-based local dynamic map services and associated communication technologies.
- 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, R3Lab, Telecom Italia
- **Infrastructure**: 5T, e-Trikala, Infopoe, 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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