

TEAM

Tomorrow's Elastic, Adaptive Mobility



MOTIVATION AND OBJECTIVES

TEAM turns static into elastic mobility by joining drivers, travellers and infrastructure operators together into one collaborative network. All network participants are meant to act as a team, balancing individual and network needs to create better transport solutions. The active collaboration is the key concept. It extends the cooperative concept of vehicle-to-x (V2X) systems to include interaction and participation. The main objectives are:

- Collaborative decision making and optimisation algorithms,
- Technology building blocks for the automotive cloud,
- Real-time management of individual driving and travelling needs,
- Quantification of the technical performance and impacts.

PROJECT PLAN AND MILESTONES

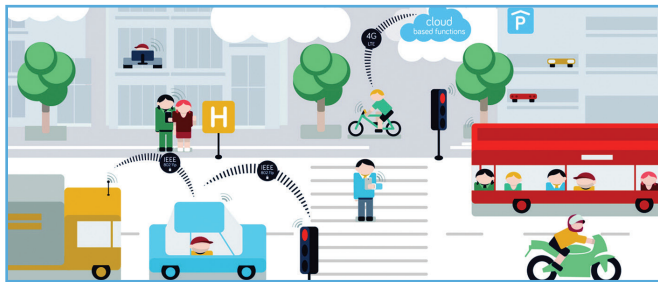
The TEAM project already successfully integrated the basic system and enablers. This leads the way to eleven collaborative TEAM applications and to the testing and enhancement in the Euro-EcoChallenge, a Europe-wide mobility experiment to illustrate the systems' benefits. Supported by business modelling workshops, this will result in effective exploitation measures for TEAM technology.



TECHNICAL APPROACH

Extending the concept of existing V2X, TEAM is taking the next evolutionary step through the conversion of ubiquitous data streams into information. This is addressing the issue of massively increased requirements for computing, storage and bandwidth posed by V2X systems following a three-fold approach:

- Distributed collaborative services, reducing overall network complexity,
- Advanced cloud-based mobility services and LTE/802.11p convergence,
- Leverage vehicles and smart phones cooperation.



The TEAM collaborative approach

EXPECTED ACHIEVEMENTS

- Design and development of eleven collaborative applications
- Novel distributed sensing and best-effort balancing algorithms, anticipating traveller actions
- Advanced local dynamic map services (LDM++) and converged communication technologies
- Off-board automotive cloud and smart phone integration
- Coaching mechanisms for safe and green driving and travelling
- Demonstration of the TEAM systems' benefits during the Euro-EcoChallenge
- Development of business models for effective deployment of elastic mobility systems

Budget	17.1 M€	Funding	11.1 M€
Duration	48 months	Start	November 2012
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