TEAM Project
Tomorrow’s Elastic, Adaptive Mobility
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TEAM – General facts

- **Project coordinator:** Ilja Radusch, Fraunhofer FOKUS (ilja.radusch@fokus.fraunhofer.de)

- **Project partners:**
  - **OEMs:** BMW Forschung & Technik, Centro Ricerche Fiat, Volvo Technology
  - **ICT:** Cosmote, Delphi, EICT, Intel, Intel Mobile Communications, Navteq, 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, Institute of Communication & Computer Systems (ICCS), National University of Ireland, TU Berlin COGA & DCAITI, University of Genoa, VTT

- **Duration:** 48 months (01/11/2012 – 31/10/2016)

- **Total cost:** 17.5 M€, thereof 11.1 M€ EU funding

- **Programme:** 7th EU Framework Programme

- **Project type:** Integrated Project (IP)

- **Project website:** [http://www.collaborative-team.eu](http://www.collaborative-team.eu) (expected Q1 2013)
TEAM – Vision

TEAM turns static into elastic mobility by joining drivers, travellers and infrastructure operators into a collaborative network, to balance individual and global mobility needs. Collaboration is the key concept, which extends the cooperative concept of vehicle-2-x systems with interaction and participation.
Vehicles and Infrastructure communicate...
... Smartphones are connected, too.
Now let’s integrate the traveler/driver.

IEEE 802.11p + traveler/driver integration = collaboration

cooperative systems
TEAM – Objectives

• Drivers, travellers and infrastructure are meant to act as a team, adapting to each other and to the situation, creating optimised mobility conditions.

• The main objectives are to:
  – Advance vehicle-2-x communication technologies by LTE integration and with an automotive cloud to support decentralised traffic applications.
  – Develop proactive algorithms and technologies to enable behavioural change for improving transportation networks.
  – Leverage nomadic devices and in-vehicle systems to realise massively distributed collaborative control and optimisation concepts.
  – Take into account real-time needs of all users and provide real-time information independent of communication channel or device.
  – Illustrate the benefits via the Euro-EcoChallenge, a pan-European mobility test.
TEAM – Structure & Workflow

SP1 MANAGEMENT

SP3 FLEX: infrastructure-centric technologies

SP2 EMPOWER: technical building blocks

SP4 DIALOGUE: user-centric technologies

SP5 EVALUATION: Euro-EcoChallenge

SP6 SUPPORT: dissemination, liaison, standardisation, exploitation

→ delivery → coordination
TEAM – Expected results

- Novel distributed “best-effort” sensing and optimisation algorithms.
- Cloud-based local dynamic map services and associated communication technologies.
- Off-board telematics services and in-vehicle smartphone integration.
- Coaching mechanisms for green travelling.
- Performing the Euro-EcoChallenge.
Thank you!

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[Team logo: Tomorrow's Elastic Adaptive Mobility]