

TEAM Project Tomorrow's Elastic, Adaptive Mobility 29 January 2013

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Outline

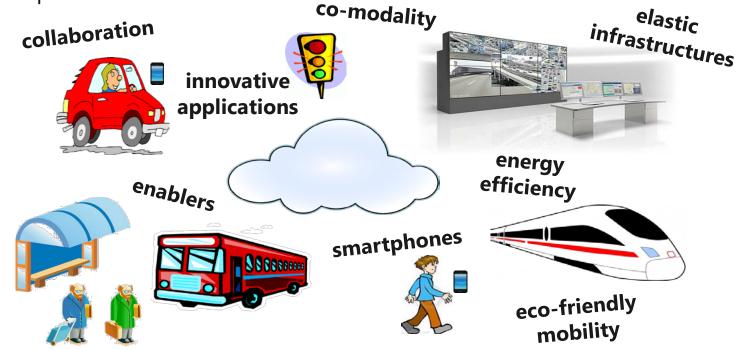
- General facts
- Vision
- Objectives
- Structure & Workflow
- Expected results

TEAM – General facts

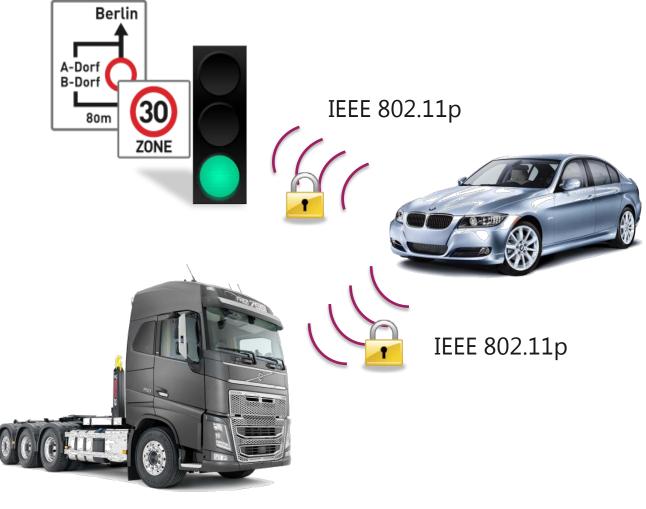
- Project coordinator: Ilja Radusch, Fraunhofer FOKUS (ilja.radusch@fokus.fraunhofer.de)
- Project partners:
 - **OEMs:** BMW Forschung & Technik, Centro Ricerche Fiat, Volvo Technology
 - ICT: Cosmote, Delphi, EICT, Intel, Intel Mobile Communications, Navteq, NEC, NXP, RE:Lab, Telecom Italia,
 - **Infrastructure:** 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:** <u>http://www.collaborative-team.eu</u> (expected Q1 2013)

TEAM – Vision

 TEAM turns static into elastic mobility by joining drivers, travellers and infrastructure operators in to 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...

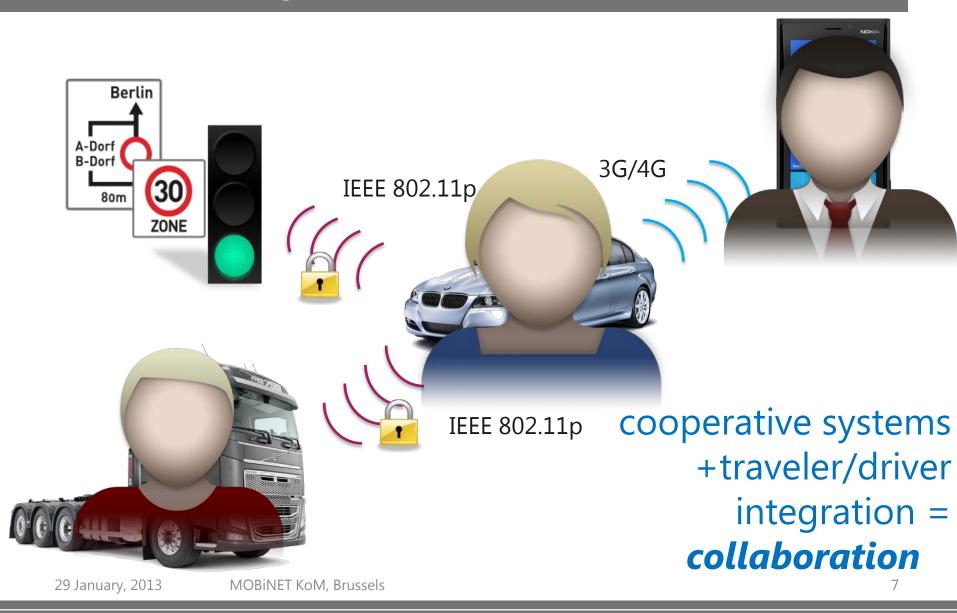


... Smartphones are connected, too.



29 January, 2013 MOBiNET KoM, Brussels

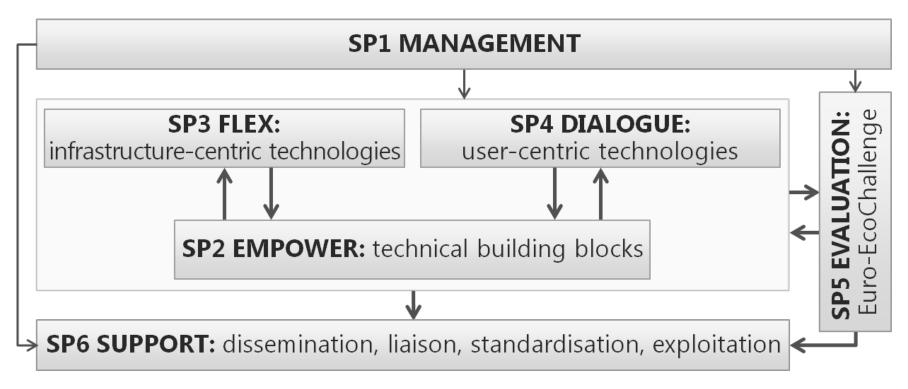
Now let's integrate the traveler/driver.



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.

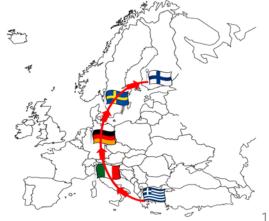
TEAM – Structure & Workflow



 \rightarrow delivery \rightarrow 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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