TEAM: a vehicle dialogue
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RATIONALE

**eco friendly and safe driving**

- Let’s offer all vehicle drivers functions and services to drive more eco-friendly and safer

- Let’s identify and implement mechanisms to facilitate a wide scale use and adoption of the new functions and services by all drivers

WOW: this sounds like a great idea! But I am a good driver, the problem is the traffic around me...

OK, got it, but why shall I change anything in my driving habit?
TEAM: let’s build a vehicle dialogue

In few years time all vehicles (cars, trucks, motorbikes, busses,..) people, traffic control centers, road infrastructure, will be producers and consumers of:

Geo-referenced traffic and travel information data

COLLABORATION = from cooperative systems to collaborative strategies

Yes, but how can we use data to create a framework of collaboration?
TEAM: let’s build a vehicle dialogue

COLLABORATION = cooperative systems + cloud + community

cooperative systems = V2X communication
TEAM cloud = dynamic data set for eco&safe driving strategies
community = offering “virtual coins” when driving eco&safe

If I change my driving style
to be more eco friendly & safe
I get a benefit!
TEAM: let’s build a vehicle dialogue

• **COACH** the driver: act like a coach, deduce and plan the actions, perform them, and tell about the success …

• Let drivers **PARTICIPATE** with serious gaming mechanisms: enable drivers to exchange their experiences …

Which are the building blocks for a collaborative eco friendly and safe driving?
TEAM: let’s build a vehicle dialogue

- Tell drivers how they could drive at best per each driving tasks with an **AVATAR** approach

- **REWARD** drivers through incentives like “virtual community coins” and a reputation mechanism

**We are defining the building blocks**
TEAM: what about scenario complexity?
TEAM is building a vehicle dialogue

- **COMBINES** drivers, vehicles, smart phones, cloud-based local dynamic map services

- **IMPLEMENT**S
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- **Create** basic technologies
  - Advance vehicle-2-x systems with LTE technologies
  - Develop an automotive cloud-computing platform

- **Integrate** infrastructure-centric technologies and algorithms
  - Develop proactive infrastructure-centric algorithms
  - Enable behavioural change taking into account real-time needs and constraints

- **Demonstrate** distributed technologies and algorithms
  - Develop proactive user-, community- and group-centric algorithms
  - Realise massively distributed collaborative control and optimization concepts

- **Evaluate** the impact
  - Conduct a Euro-EcoChallenge to demonstrate and evaluate TEAM results
TEAM DIALOGUE applications

(1) Green, safe and collaborative driving
(2) Collaborative adaptive cruise control
(3) Collaborative driving and merging
(4) Collaborative eco-friendly navigation
(5) Collaborative eco-friendly parking

We include also serious gaming and community building
TEAM DIALOGUE partners

Automotive
- BMW Group Research and Technology
- CRF
- FIAT
- VOLVO

ICT
- Intel
- HERE
- Intel Mobile Communications
- TELECOM Italia
- RE:Lab
- NEC

Infrastructure
- RAMBOLL
- SWARCO
- SWARCO TRAFFIC SYSTEMS GMBH

Research
- Fraunhofer FOKUS
- AIT Austrian Institute of Technology
- EPICYC
- [dsi:arti:]
- Fraunhofer IAO
- ELIOS
- VTT
- NATIONAL UNIVERSITY OF IRELAND MARYNOOTH
Thank you!

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