

Introduction and Use Case COBRA tool v0.31

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Today

- Demo of COBRA tool
 - Feedback on
 - Inputs
 - Outputs
 - Ease of use
- Background of project
- Methodology
- Bundles
- Tool



Intro COBRA project

- COoperative Benefits for Road Authorities
- ERA-NET road programme
- Sept 2011 Feb 2013
- 415K €
- Partners:





Project coordinator

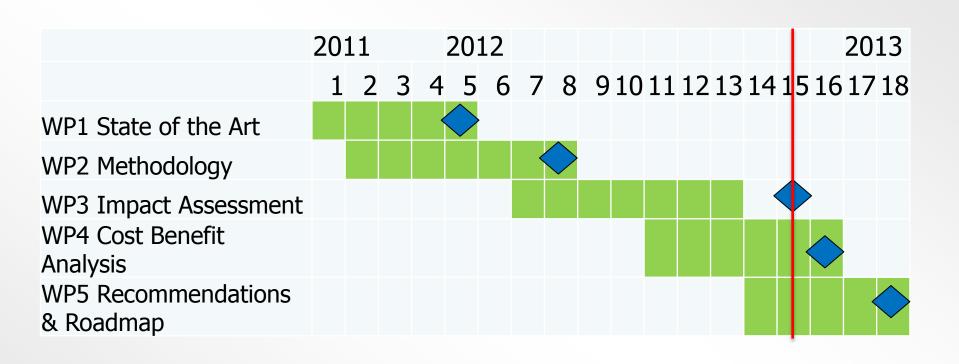
Project partner

Project partner

Subcontractor



Timetable COBRA





COBRA tool

- Aims to support investment decision by NRA to deploy CS
 - compare cooperative platforms
 - societal cost and benefits, and costs (savings)
 for NRAs
 - decision to be taken in next 5-10 years
- Flexible, can be expanded in the future



Methodology

- Impact Assessment
 - Safety, traffic efficiency, environment
 - At Bundle level (3 in total)
- CBA: Depends on
 - deployment level
 - Legacy systems
 - Reference scenario
- BM
 - Several choices



Bundles

- Local dynamic events
 - Hazardous location notification
 - Road works warning
 - Traffic jam ahead warning
 - eCall
- In-vehicle speed and signage
 - In-vehicle signage
 - Intelligent speed adaptation
 - Dynamic speed limits
- Information services
 - Traffic info and recommended itinerary
 - Multimodal traffic information
 - Parking information and guidance



Combinations Bundles and Platforms

Bundle	Cellular	Wireless Beacons
Local dynamic events		
In-vehicle speed and signage		
Information services		N/A

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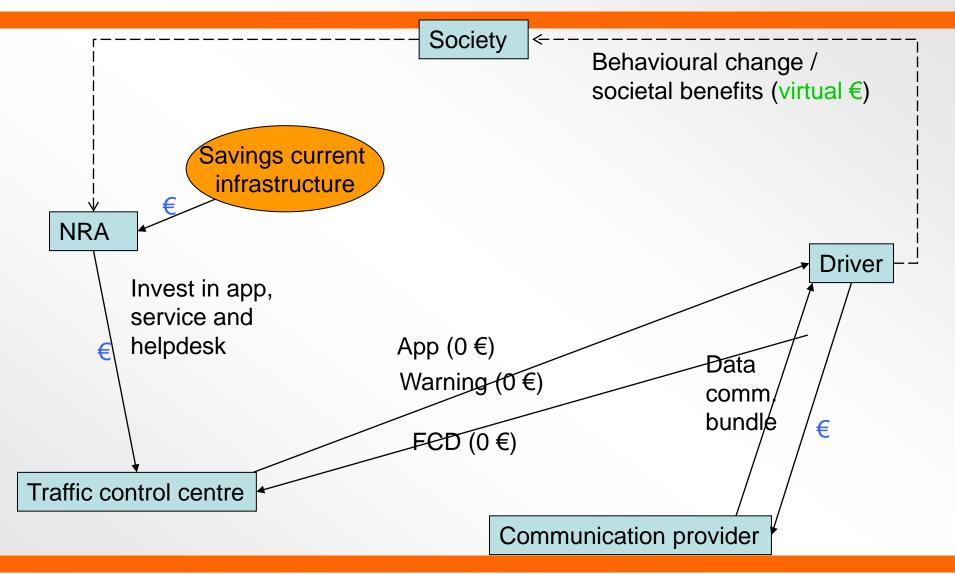


Business Models for NRA

- BM1 Free RA app (Cellular)
- BM2a commercial app (Cellular)
- BM2b Navigation extended (Cellular)
- BM3 Public travel time information (Cellular)
- BM4 Private dynamic navigation (Cellular)
- BM5 Public road-side (Wireless beacons)
- BM6a PPS (road-side private; app by NRA) (Wireless beacons)
- BM6b PPS (road-side by NRA; app private)
 (Wireless beacons)
- BM7 Private road-side (Wireless beacons)



Example Business Model: Free road authority app





Scenario

- UK
- Local dynamic event warnings
- Cellular
- Business Model 1
- Low penetration level



Thank you for your attention

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