



Towards safer and cleaner mobility in Europe: The Future Research challenges - COOPERS applications

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[Agenda:

- COOPERS facts
- Project vision
- Main aspects of work
- Intermediate results
- Conclusions for R&D



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[Main aspects of work III

The following communication media will be extensively validated in COOPERS:

- DAB / **DVB-H**
- GPRS / **WIMAX**
- CALM IR / **CALM M5**

Common message set and use of TPEG-RTM standard for all communication media

Enhanced message set to cover all COOPERS services under development

MGMT	<code><road_traffic_message message_id="2049334" start_time="2007-11-23T13:01:13+0" >accidents number_of="1" /></code>
CONTENT	<code><position position="driving lane 1" /> <restriction restriction="blocked" /></code>
LOC	<code><WGS84 latitude="51.613156" longitude="-3.757987" /> <direction direction_type="eastbound" /></code>

- Communication technology independent !



[COOPERS FACTS

COOPERS - Co-operative Systems for Intelligent Road Safety

Integrated Project of the 4. IST Call, FP6
Project with 39 partners, coordinated by AustriaTech

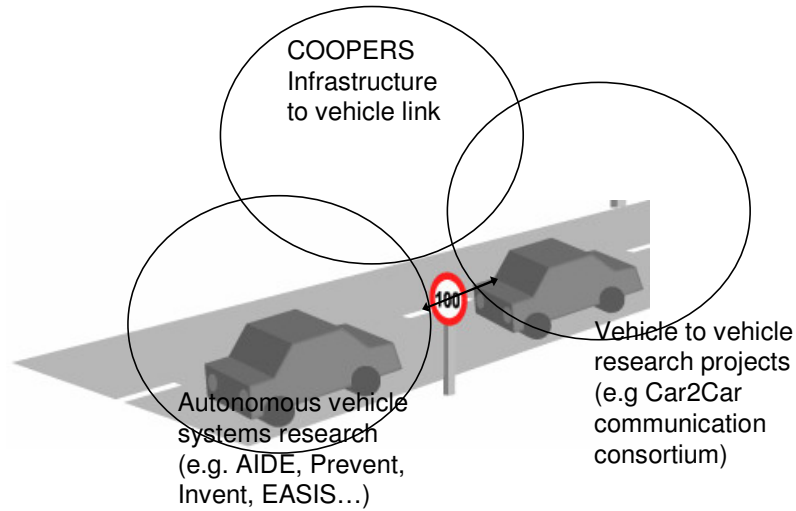
Project Budget 16,8 Mio EURO, 9.8 Mio EURO EU - Contribution

Start on 1. February 2006

Duration of 4 years

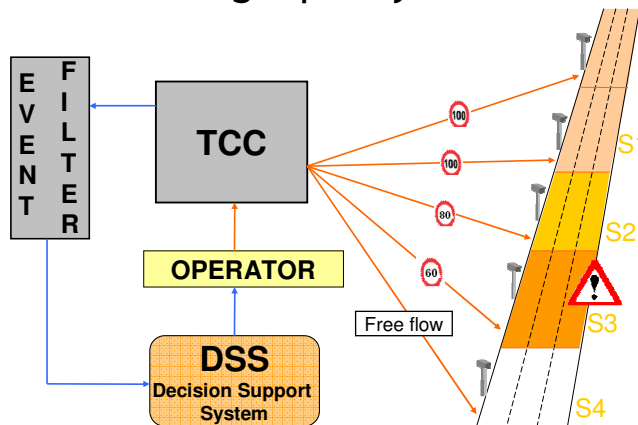


[COOPERS - project vision



[Main aspects of work I

- Detailed and high quality traffic information !



TCC ... Traffic Control Center

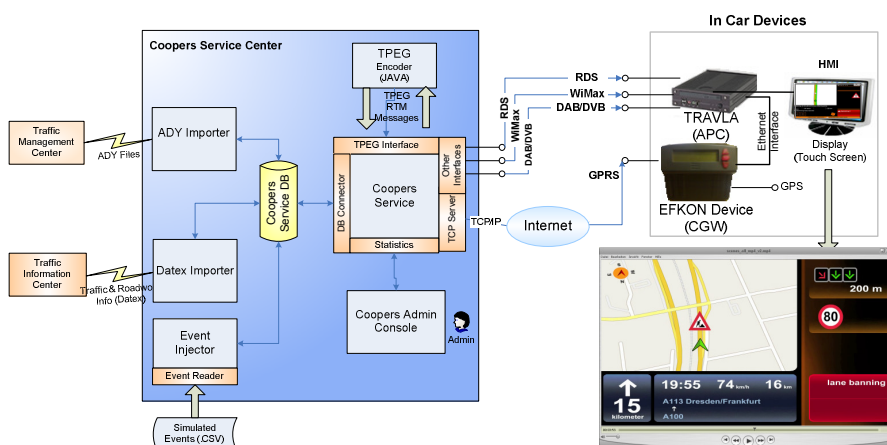


[Main aspects of work II

- S1. Accident/incident warning
- S2. Weather condition warning
- S3. Roadworks information
- S4. Lane utilization information
- S5. In-vehicle variable speed limit information
- S6. Traffic congestion warning
- S7. ISA with links to infrastructure
- S8. International service handover
- S9. Road charging to influence demand
- S10, 11, 12. Route navigation - support



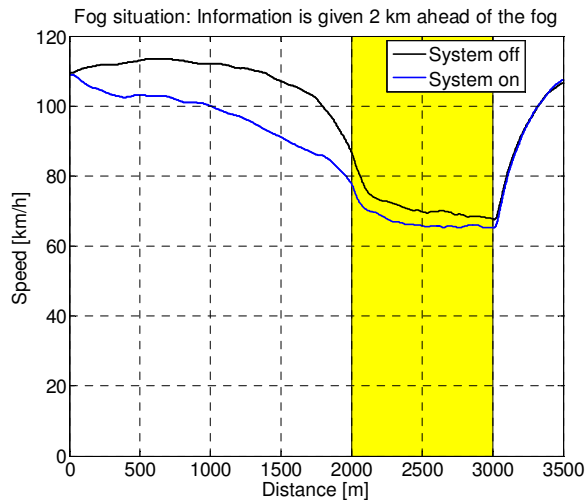
[Current COOPERS status



TCC ... Traffic Control Center



Driving simulator results



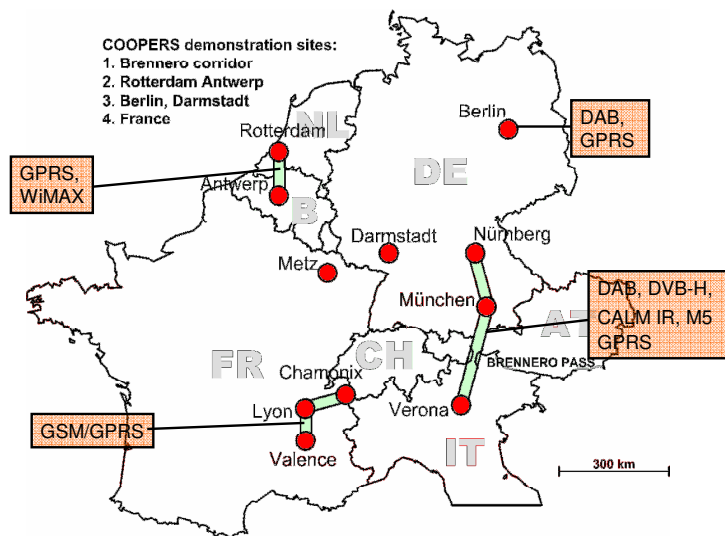
Driving simulator results

- Mean speed - Fog
- more than 90 % of drivers reacted to the warning
- reduced their driving speed by 14 %

Read: at 500 m distance average speed (92 km/h with system on – 108 km/h with system off)



Demonstration sites:



[Conclusions for R&D

Enhance traffic management capabilities through research (monitoring, middleware and software tools)

Perform wide area **FIELD TEST** in Europe (User acceptance of travellers and hard facts for deployment investments)

Prepare the legal framework for EU-wide implementation



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