coopers – **Co-operative Systems for Intelligent Road Safety**

COOPERS

Project Presentation

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coopers

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European Commission Information Society and Media



- Vision
- Setting of COOPERS
- Work program
- Areas of work in Coopers
 - Roadside data acquisition
 - Traffic control center TCC applications
 - Road side transmitter
 - On board unit
 - Information services
- Test and demonstration sites
- Partners
- Information services communication chain
- FRAME statement, functional viewpoint
- Contact information







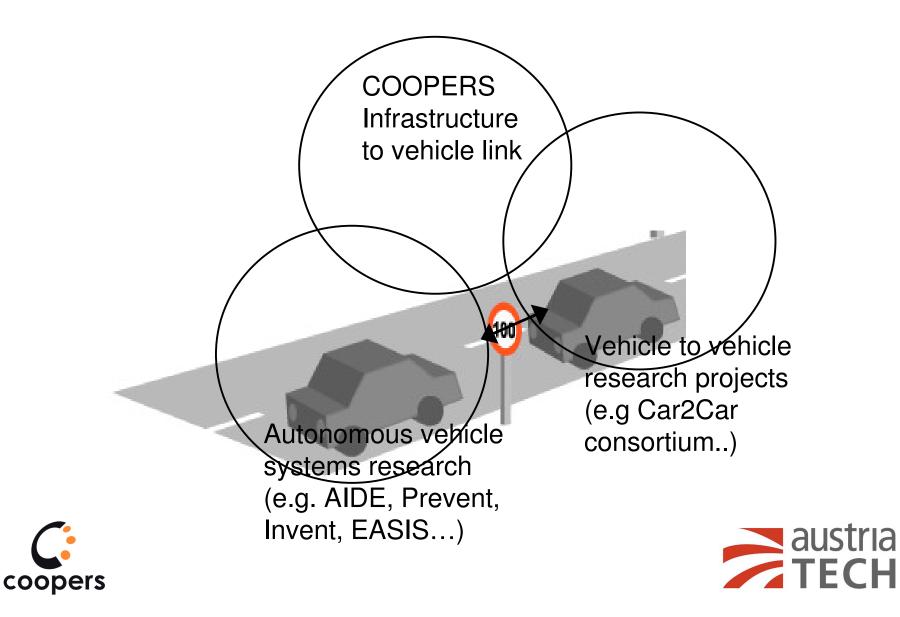
VISION

Vehicles are connected via continuous wireless communication with the road infrastructure on motorways, exchange data and information relevant for the specific road segment to increase overall road safety and enable cooperative traffic management.





Why is the infrastructure-vehicle communication link important?



Why do we need infrastructurevehicle communication?

- Faster exchange of safety related information from the infrastructure to the driver
- Road safety: precise and situation related real time advice/information improves safety of driving
- Related to traffic, weather and road infrastructure status (e.g. road surface, but also network saturation!)
- Identification of violations





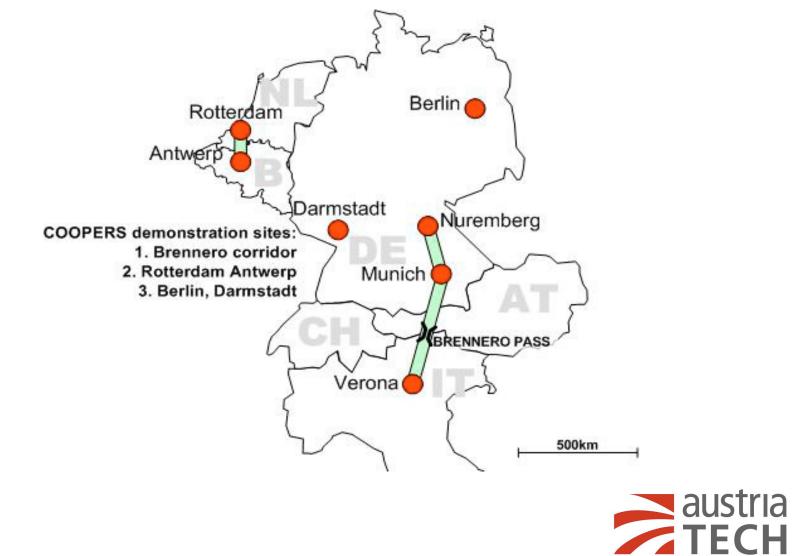
Areas of work in COOPERS

- Roadside data acquisition
- Traffic control center TCC applications
- Road side transmitter
- On board unit
- Information services and the related communication chain













COOPERS Partner list





























PHILIPS





ascom

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NAVTEQ

selbersdorf research

TRANSVER

VEGA

Quality In Everything We Do



ASFINAG









Bayerisches Staatsministerium des Innern









Information services - 01

- Accident/incident warning to inform drivers, emergency service providers for efficient service
- Weather condition warning
- Roadwork/surface status/route closure information to inform drivers
- Lane utilisation information on lane keeping, lane restriction and accessibility to auxiliary lanes





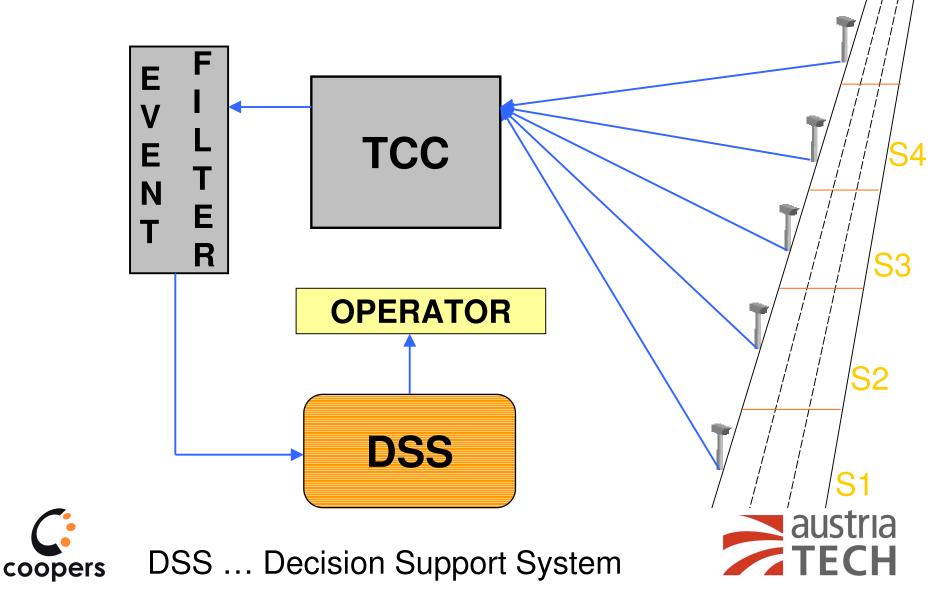
Information services - 02

- Estimated Journey Time to final destination
- Recommended Next Link at next junction
- Map Information Check to inform of current update for digital maps
- ISA with Variable speed limits
- International service handover
- Road charging

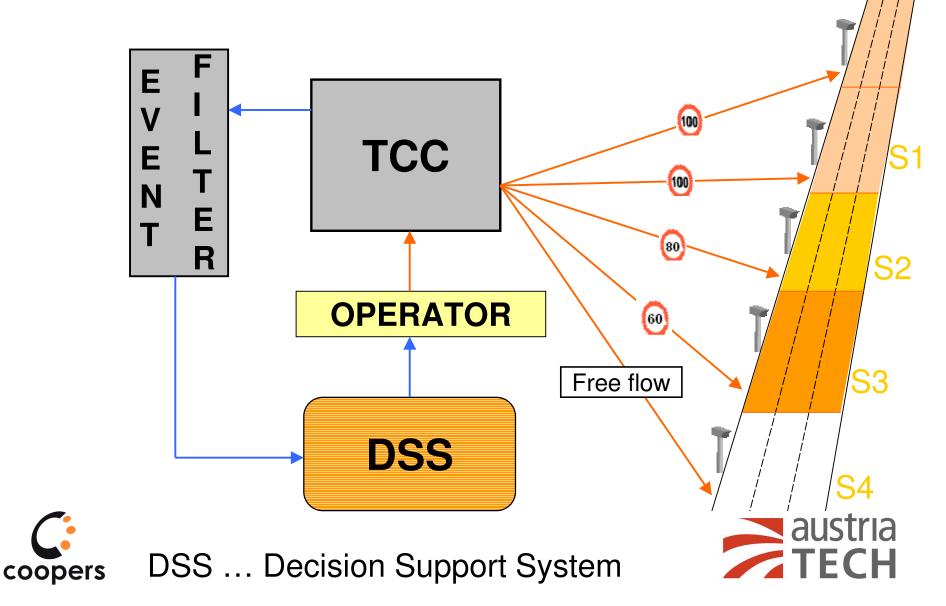






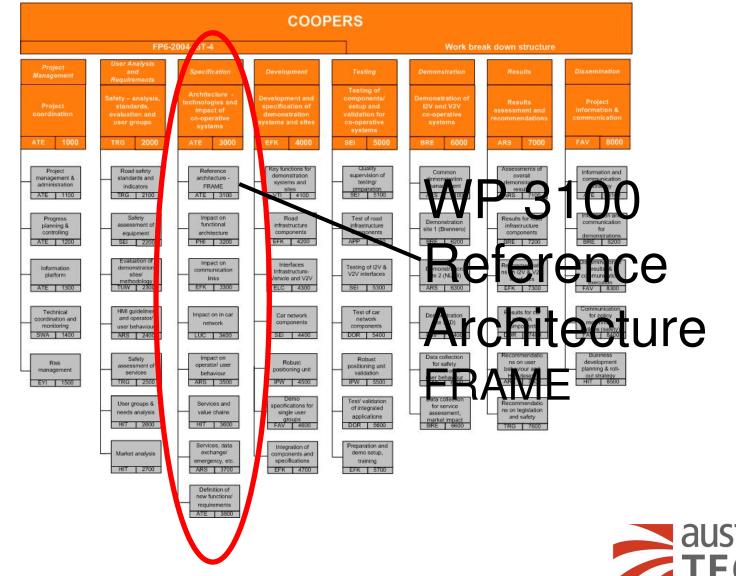
















WP 3000 – SWP Leaders

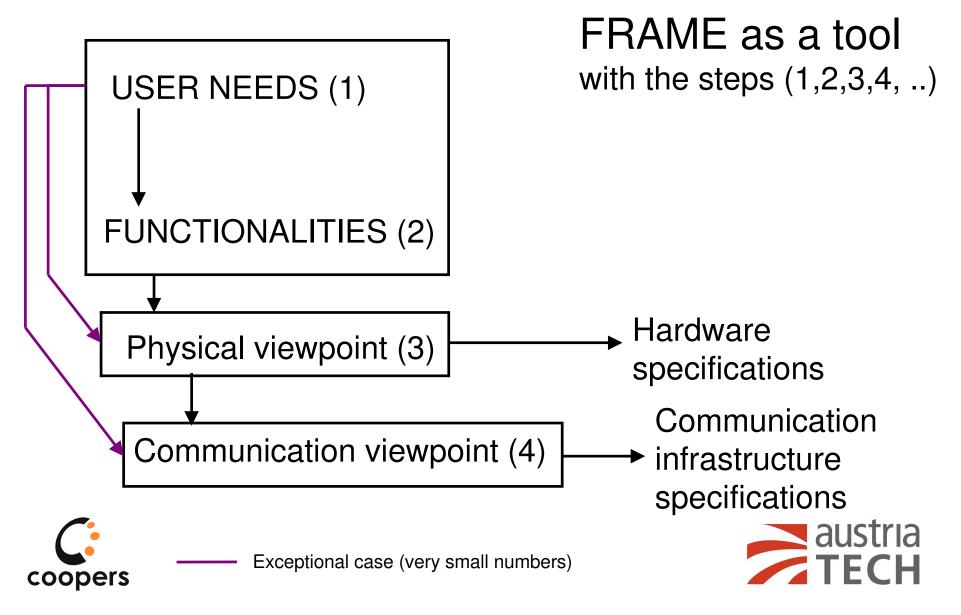
- AustriaTech development of the reference architecture, definition of new functions/requirements
- Philips Impact on functional architecture
- Efkon Impact on communication links
- Lucent Impact on In-Car Network
- **ARS T&TT** Impact on operator/user behaviour, data exchange/emergency services
- HiTec Marketing value chain of the services







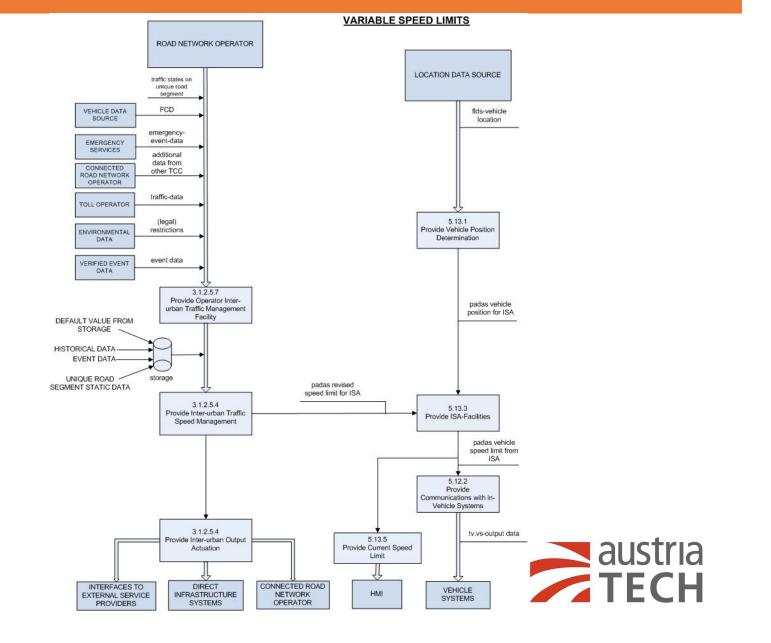
WP 3000 FRAME method





WP 3000 – functions

Functional viewpoint e.g. Variable Speed Limits







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