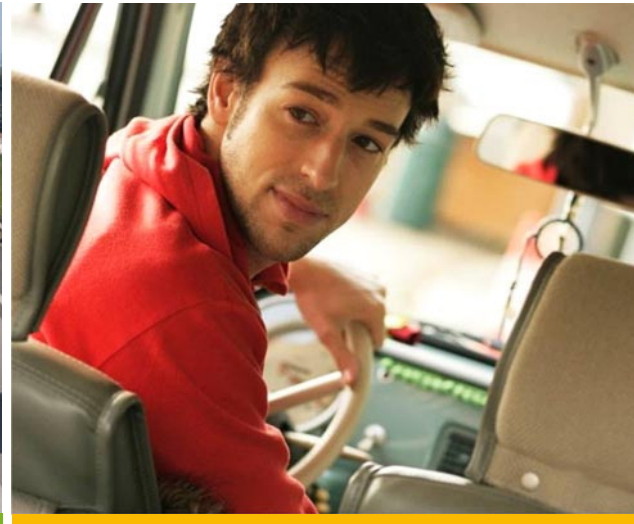


Traffic Management



Active Safety



Cooperative Cars



Dr. Guido Gehlen
Ericsson GmbH

Cooperative Cars – Overview



Cellular Vehicle Communication



- Vehicle communication is more and more understood as the next big step in vehicle technologies.
- It enables a broad variety of solutions
 - Safety related applications like Hazard Warnings
 - Traffic management
 - Infotainment services
- Vehicle communication can be established by short range ad-hoc communication and/or **cellular networks (e.g. UMTS)**.
- Both technologies are complementary and will support each other in market introduction and performance.

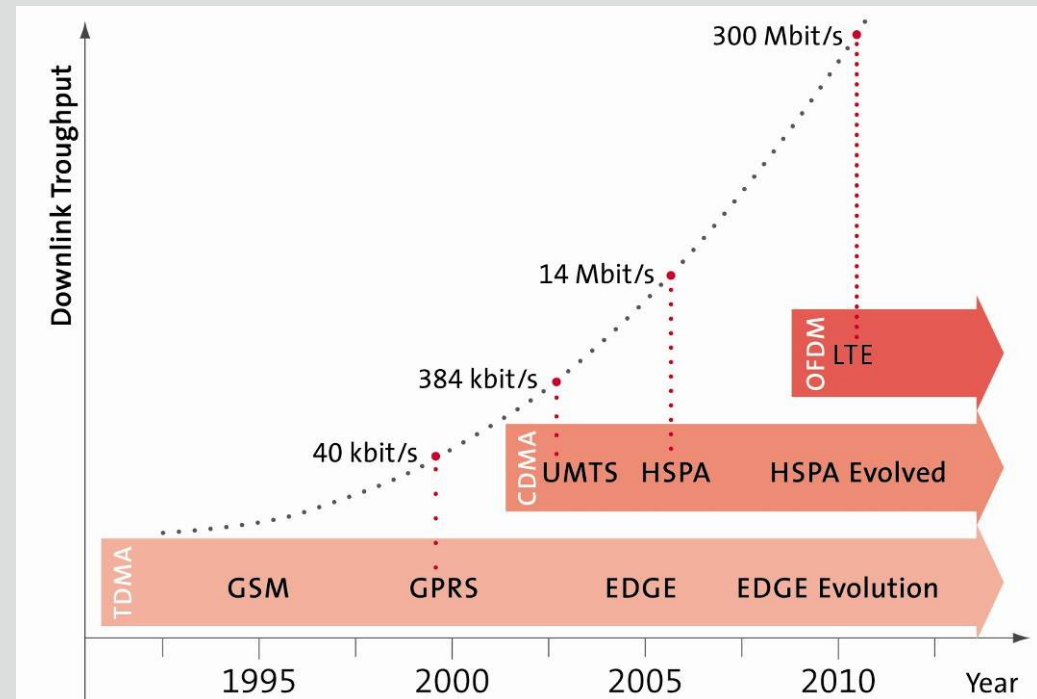




Cellular Network Evolution



- Standardized world wide
- Billions of devices are capable of communicating with each other
- Mobile Broadband is already a reality today
- Location-based services & broadcast mechanisms
- Performance is steadily increasing





CoCar Funding Authority & Partners



- Federal Ministry of Education and Research (BMBF)
- Ericsson GmbH, Eurolab, Aachen
 - RWTH Aachen (Prof. Walke, Prof. Jarke)
 - Uni Bremen (Prof. Görg)
- Vodafone Group R&D Germany, Munich
 - Uni Erlangen (Prof. Koch, Prof. German)
 - Vodafone Group R&D UK
- Daimler AG, Stuttgart
- Volkswagen AG, Wolfsburg
- MAN Nutzfahrzeuge AG, Munich



DAIMLER





CoCar Goals set in 2007



CoCar is aiming at basic research for Vehicle-to-Vehicle (V2V) and Vehicle-to-Infrastructure (V2I) communication for future cooperative vehicle applications using cellular mobile communication technologies. Telecommunication companies and automobile manufacturers are developing platform independent communication protocols and innovative systems components.

Selected applications will be prototyped and validated, and feasibility studies performed.



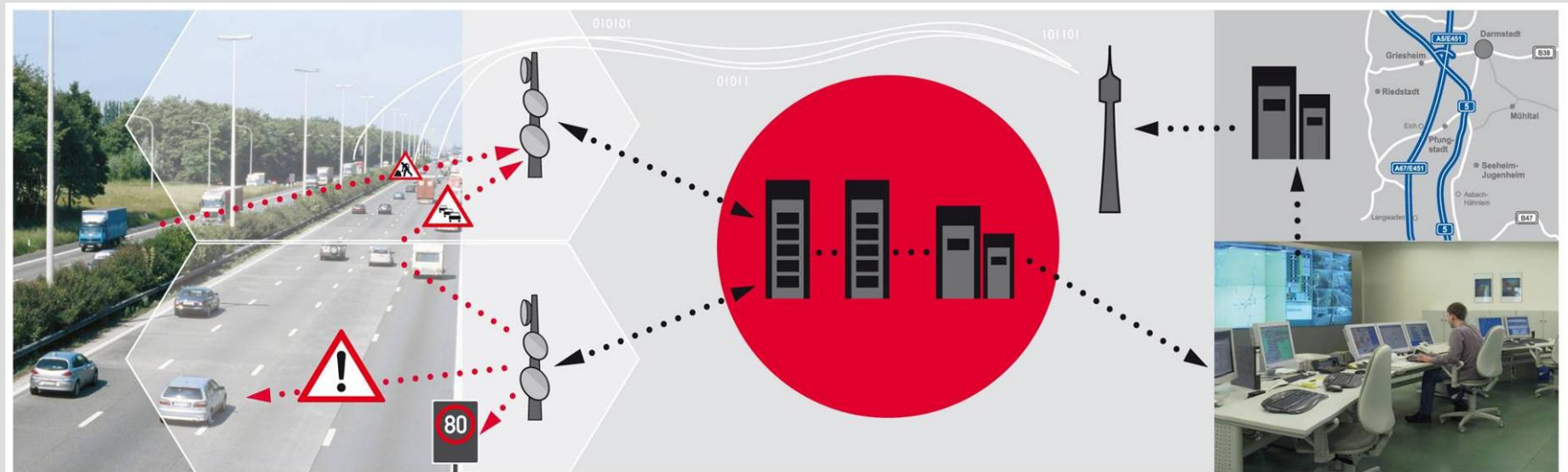


CoCar System Layout



Cellular Network

External Traffic Info Distributors



Road Traffic

CoCar System

Traffic Management Centre



CoCar Work Package Layout

