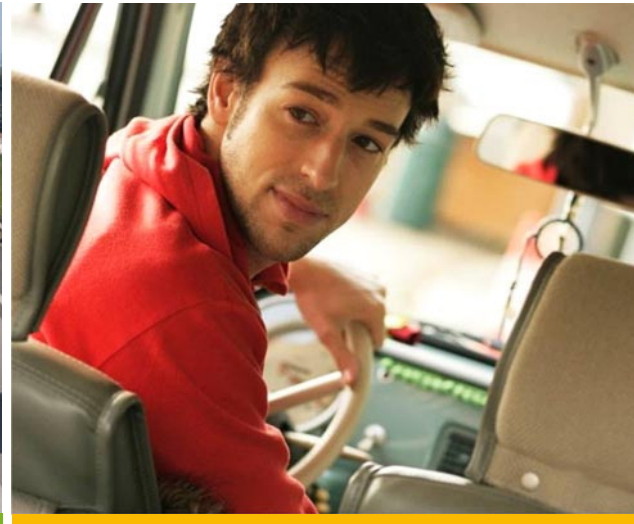


Traffic Management



Active Safety



Cooperative Cars



Gerhard Nöcker
Daimler AG

Application Requirements



Goals

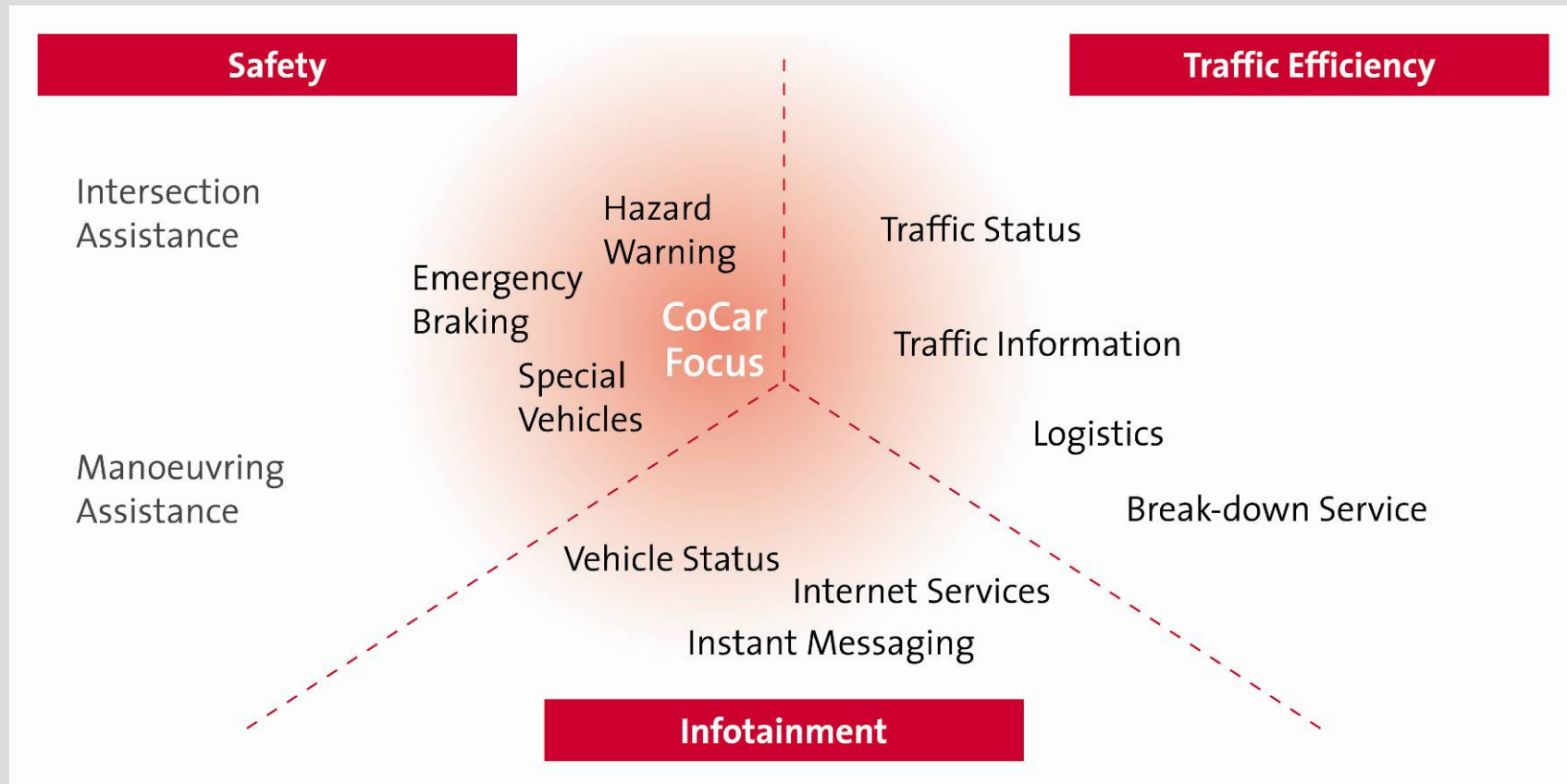


The application requirement analysis aims at defining cooperative applications, identifying their communication requirements and selecting relevant applications for the communication protocol design and performance analysis.





Focus of Application Evaluation





Basic Requirements



- Quick response / short communication delay for safety related applications
- High throughput for infotainment applications
- High availability everywhere, anytime
- Attractive cost/benefit ratio (platform costs, fee)
- Reasonable introduction strategy



Application Classification – Protocol Classes



	Safety	Traffic Efficiency	Infotainment
	Hazard Warning Emergency Braking	Logistic Status	Instant Messaging
	Emergency Vehicle Special Vehicle Moving Road Works	Floating Car Data	
	Hazard Warning Emergency Braking Special Vehicle	In-vehicle Signing	
		Traffic Information: Traffic Jam Warning	Instant Messaging
	eCall bCall	Navigation on Request	Internet Services Remote Diagnostics
			Remote Vehicle Status Control



Conclusion



- 59 use cases and their requirements were described and collected
- Safety, traffic efficiency and infotainment application domains are covered
- Subset of applications were selected for further investigation and prototyping
- Communication characteristics and their requirements have been identified