

## Overview of **COMCAR and DRIVE**

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COMCAR-DRIVE, ITG 5.2.4 1





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## **Motivation and Scope**

- Demand for high-end mobile multimedia services is increasing
  - especially in vehicular environments
- Variety of Requirements:
  - high bandwidth, asymmetry, interactivity, location dependency,...



## • Problem:

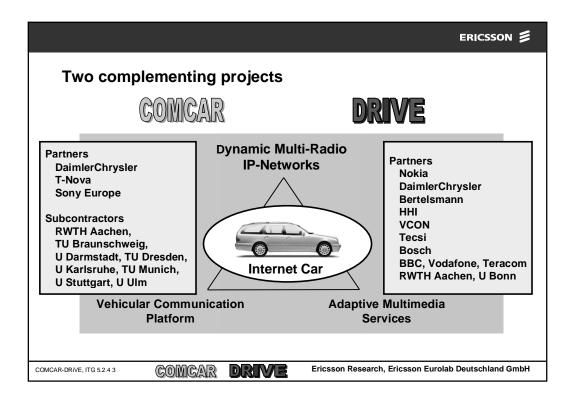
- Asymmetric traffic -- Focus on the Downlink
- Cost efficient provision of services is faced by scarce radio resources
  - Harmonization of additional spectrum worldwide difficult
- Distinct technologies for communication (GSM, UMTS) and broadcast services (DVB, DAB) with fixed long term spectrum allocation

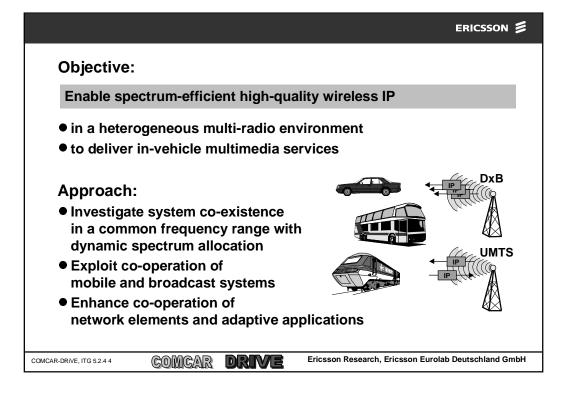
COMCAR-DRIVE, ITG 5,2,4 2

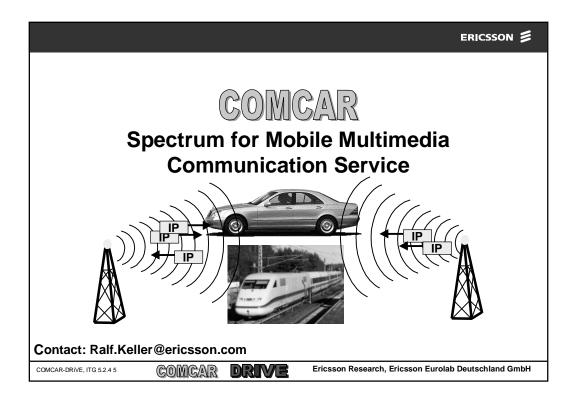
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## Spectrum for Mobile Multimedia Communication Services • Spectrum is expensive - UMTS auctions in Germany and Great Britain: • aprox. 1 Mrd. DM / MHz / 10 Years / 100 Million Inhabitants • Demand for Mobile Data Services is increasing but existing allocation is dominated by voice services • Harmonisation of additional spectrum in Europe and World-Wide is difficult • Additional spectrum must be suited for asymmetric, high-quality IP services - Enable also multicast service

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