Active Infrared Communication in the context of ISO CALM

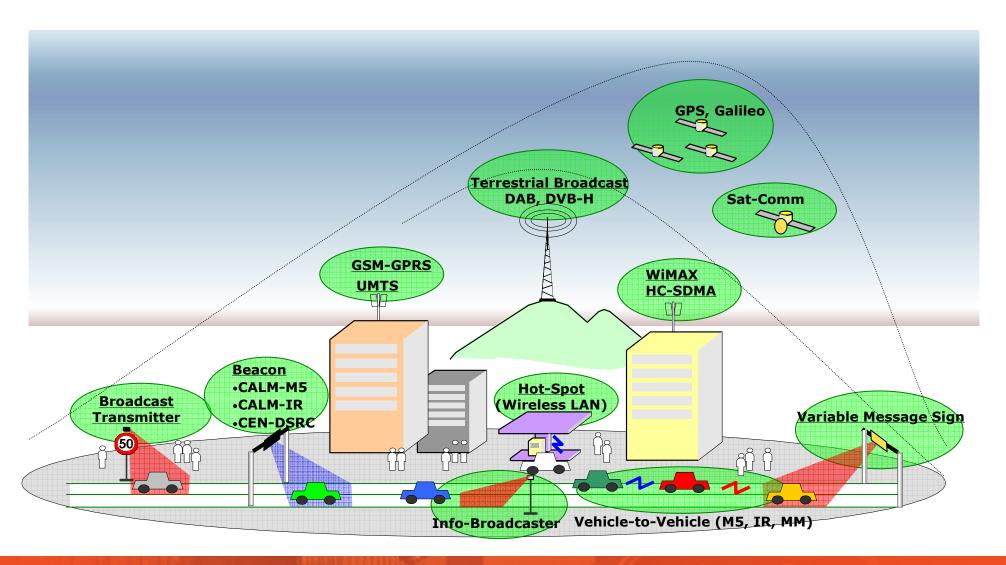
Thursday 5 June, 14:00-15:30

Dr. Hannes Stratil
Efkon AG

ITS Europe Congress, Geneva



Communications in ITS



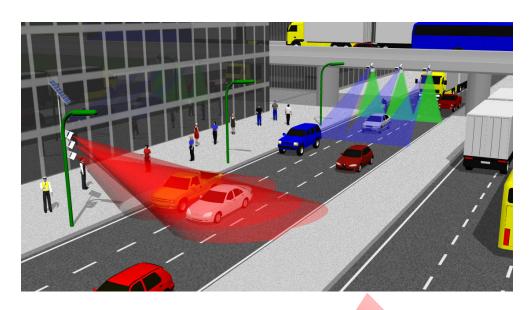


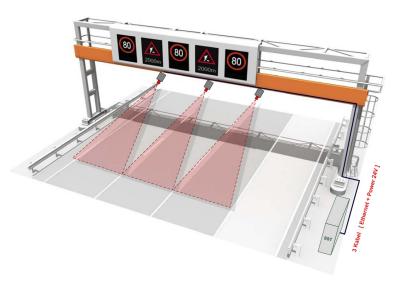
Communication Technologies in European ITS Projects

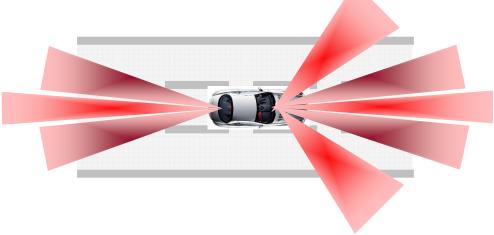
- ▶ **DAB** (Digital Audio Broadcast): COOPERS
- DVB-H (Digital Video Broadcast Handheld): COOPERS
- ► **GSM/GPRS** (2.5G Cellular Networks): CVIS, COOPERS
- WIMAX (Metropolitan Area Networks): COOPERS
- CALM-M5 (Active Microwave at 5.9GHz): CVIS, Safespot
- ► CALM-IR (Active Infrared): CVIS, COOPERS

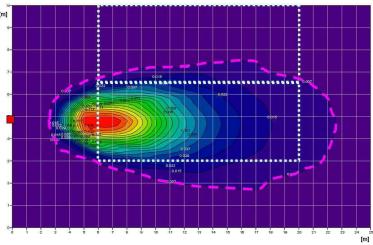


CALM Infrared Communication



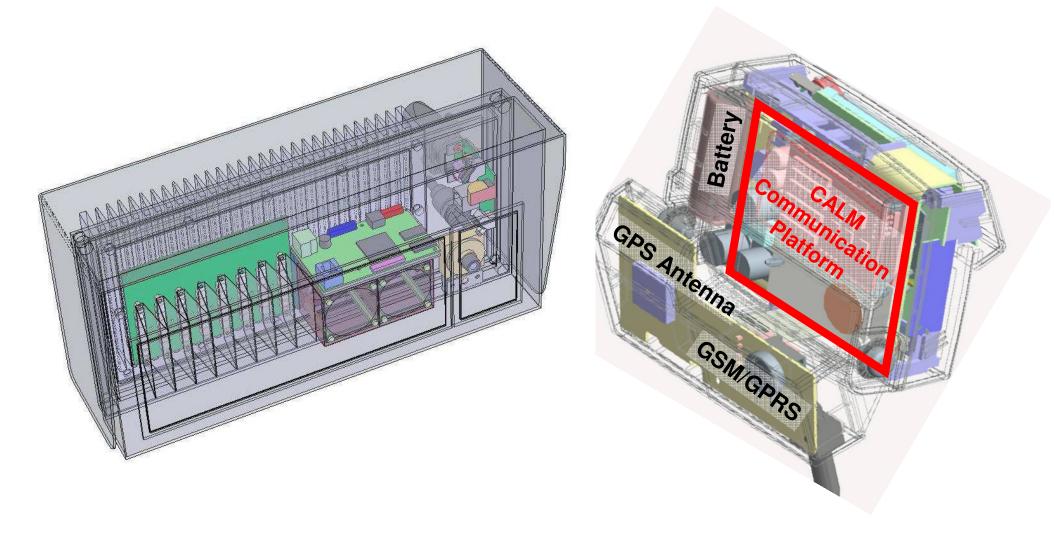








Infrared Communication Components





Performance parameters

- Data rate of 2Mbit/s
- Vehicle speeds up to 200km/h
- V2I communication of 50 meters
- Interference free multilane free flow communication
- Lane specific communication zones with sharp boundaries
- Few milliseconds latencies and communication setup delays
- Distance measurement with meter accuracy
- License free wireless spectrum





First COOPERS Demonstration:

Talking Traffic Sign

Today at 4pm

EFKON Booth B16





Thanks for your attention...

Dr. Hannes Stratil

mailto: h.stratil@efkon.com

EFKON AG, Austria

