

New, Innovative Telematics Applications to improve Road Safety & Traffic Management





Passive Safety : RESCUE Chain



- Improving the efficiency of the Rescue Chain

PSAP 1



PSAP 2

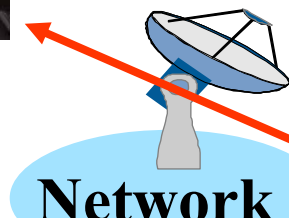
Emergency
Fleet Management



Blue Wave



Infos



Network

E-Call

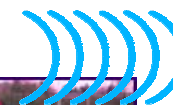


Local
Danger



Assistance
Request

Virtual Cone

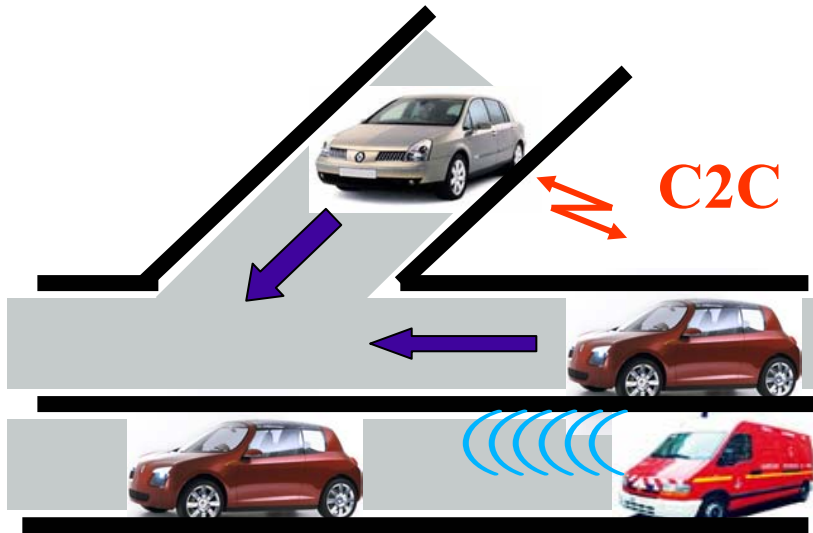


Renault / AXA Assistance

Assistance
Fleet Management



- Safety Margin Concept**



Requirements:

- Accurate relative positioning
- Dynamic MAP up-date

- Local Danger Warning
- Blue Wave / Virtual Cone





• Car to Road Side Infrastructure Applications



Head-up Display



Information Geocasting:

- Road Sign repetition
- Utility information
- Local road dangers
- Dynamic Speed Limits
- Car status (stolen Vehicle)

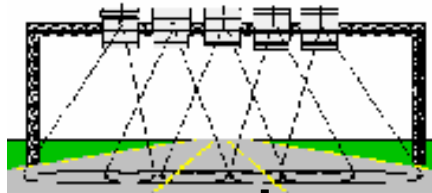


- **EFCD for an Efficient traffic management**

**I tell you all what I see
Using my sensors**

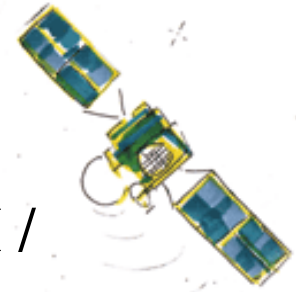


WLAN



**DAB /
DVBH /**

....



**GSM /
UMTS
/....**



**Efficient Traffic
Management Centre**



Standardization is a must



- **The diversity of actors and the complexity of the automotive telematic system requires a standardization approach at the level of interfaces between main subsystems (communication & application protocols).**
- **The C2C and C2I deployment requires the allocation of a protected bandwidth (2x10 Mbits/sec) free of charge for Road safety services (which can not be sold to customers). The IEEE 802.11p proposal in the 5.9 Ghz Band is currently the best candidate.**
- **Consequently, the proposed telematics applications are only viable if a converging, common, global European approach can be achieved.**

Any Questions ?



RENAULT

Gerard.segarra@renault.com