

## Vehicle Sensors

Lane departure system

Night vision

Front object CCD camera

Front airbag sensors

ASCD

Nighttime pedestrian warning

Drowsiness sensors

Front object laser radar

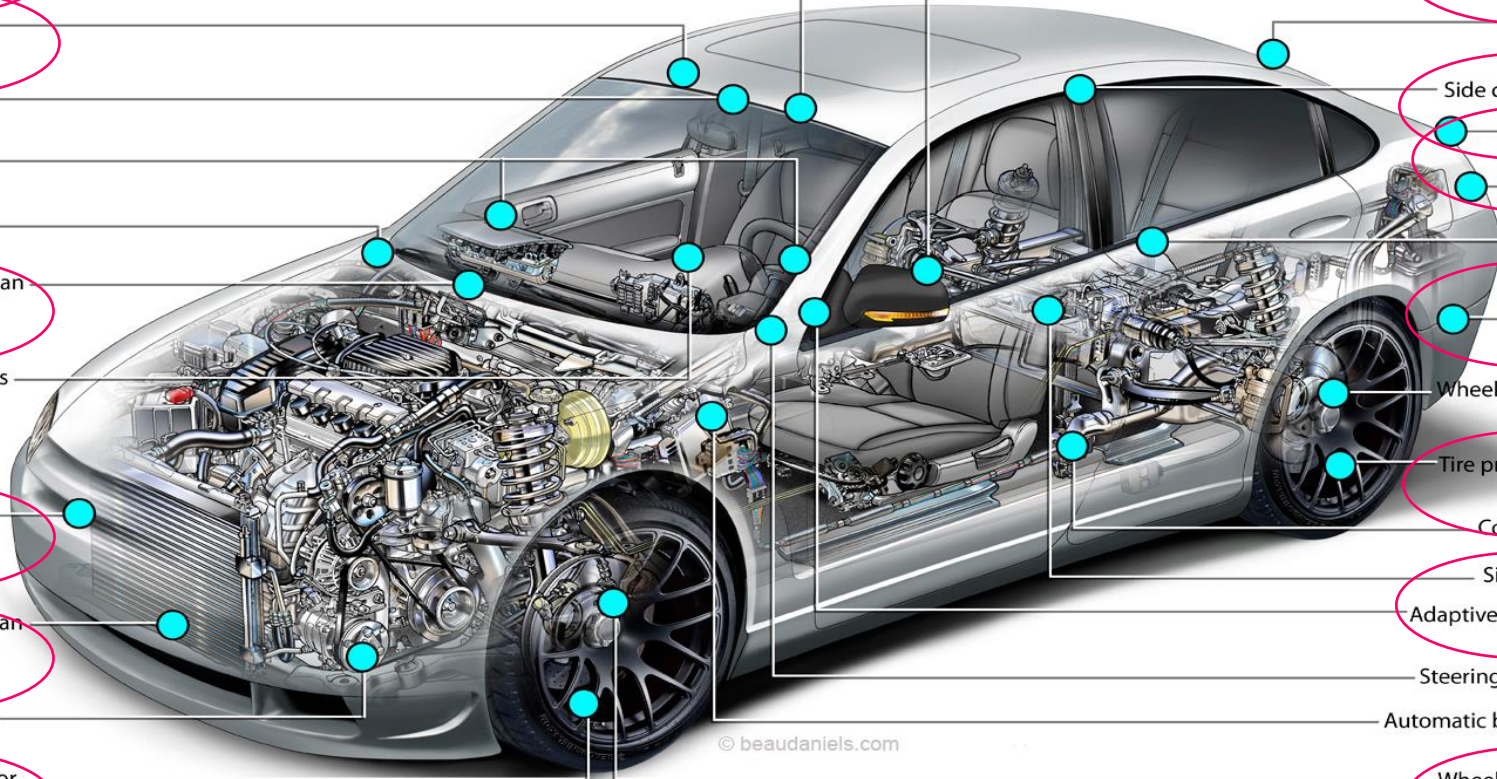
Nighttime pedestrian warning IR sensor

Active park assist

Tire pressure sensor

# Radiofrequencies in Cars: A public health threat

EMF presentation by Dr. Th. Metsis 2017



Rear object monitor  
CCD camera

Rear camera

Side curtain sensor

Blind spot detection

Cross traffic alert

Central computer

Rear object laser radar

Wheel speed sensor

Tire pressure sensor

Collision sensor

Side airbag SRS

Adaptive cruise control

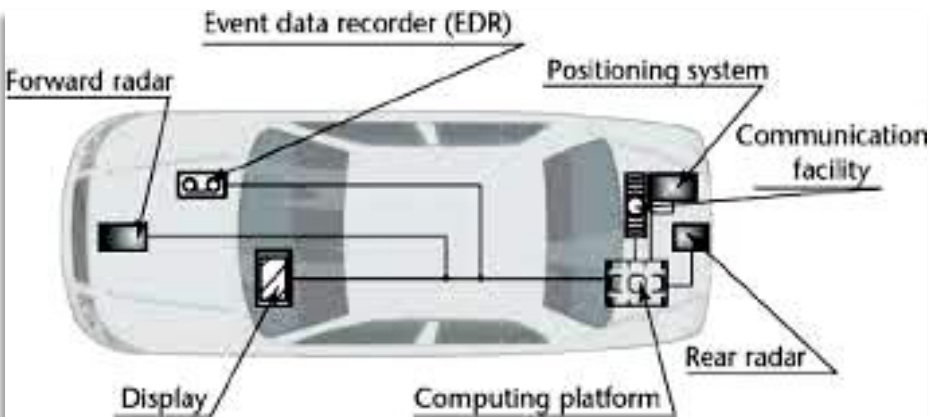
Steering Angle sensor

Automatic brake actuator

Wheel speed sensor

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## RADARS AND WIRELESS SENSORS IN MODERN CARS



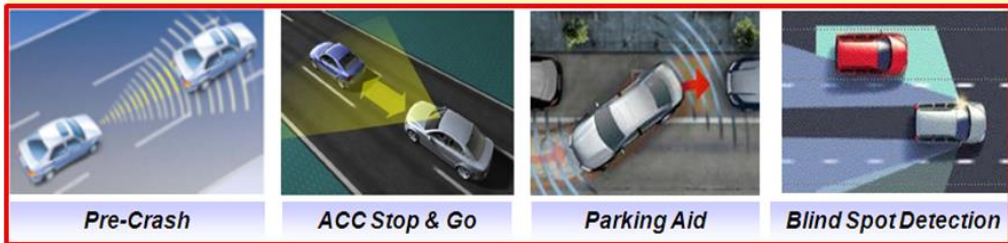
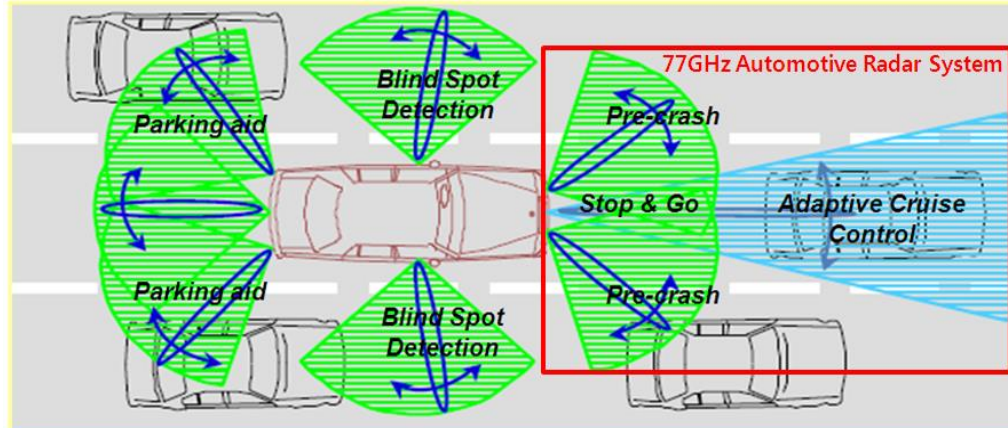
## WIRELESS BEAMS & SENSORS IN MODERN VEHICLES

Vehicles with V2V & V2I cost per vehicle 150 – 300 USD

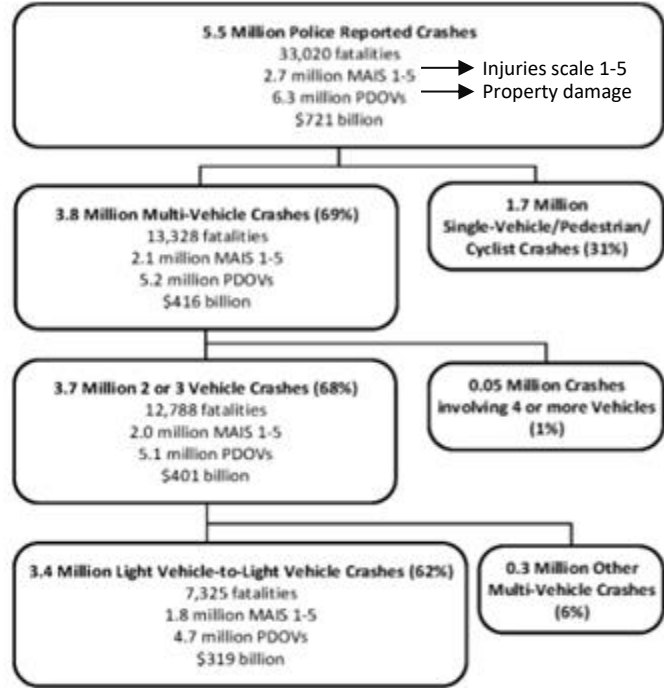
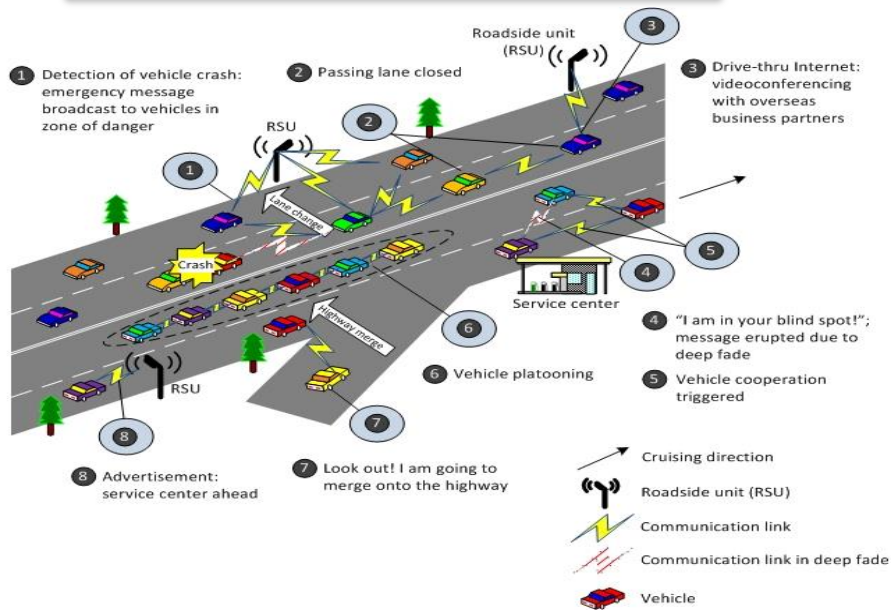




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**CARS : THE MOVING RADAR CONCEPT**



**V2x: V2V + V2I**

**Information Services:** wallstreet\*, NASDAQ, The Weather Channel, Smart Phones, Bluetooth, Android, Apple

**Emergency Services:** HUGHES TELECOM

**Navigation:** traffic, Google earth

**Entertainment:** YouTube, Facebook, PANDORA, SIRIUS, hulu

**Safety and Services**

**Integration Enablers:** V2I, Street Sign Recognition

**Driver Assist:** Lane Departure Warning, Follow-to-Stop, Emergency Braking, Park Distance Control, Active Cruise Control, Driver Alertness, Optical Park Distance Control

**Connectivity Module:** V2V

**Driver Assist:** Heading Control Assist, Side Assist/Blind Spot Detection, Accident Avoidance, Distance Braking Control, Park Steering Assistance

**VOLKSWAGEN GROUP OF AMERICA**