

OPPORTUNITIES OF IOT FOR AUTOMOTIVE



VOLVO CARS

ROBERT JAGLER

DIRECTOR MSS CONNECTIVITY

IN THOSE DAYS...



A LOT HAS HAPPEND...



...from 1927...

...until today

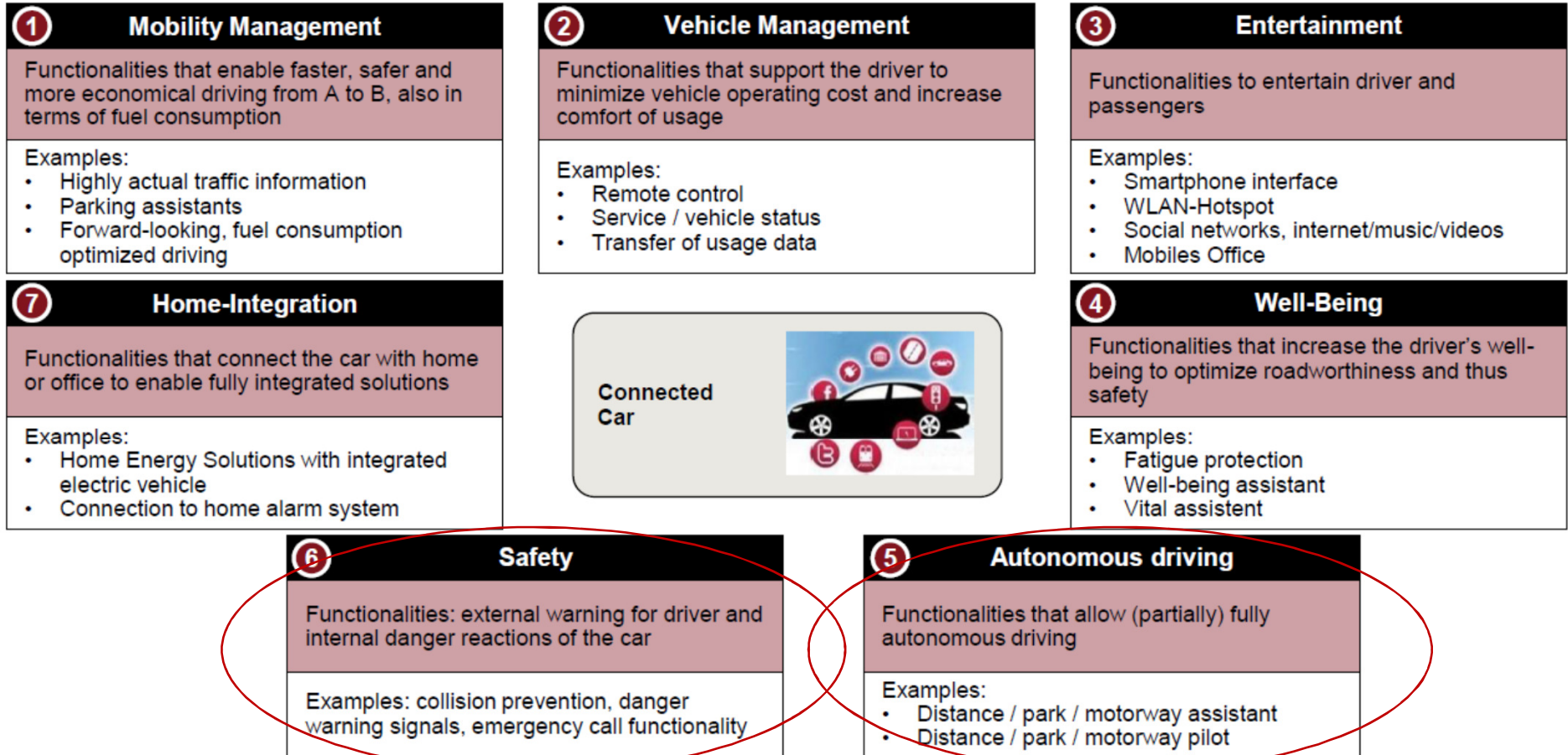
GLOBAL MEGATRENDS

- Continued urbanisation
- Growing number of megacities
- Air quality major health issue
- Traffic accidents huge global health problem
- Desire for constant connectivity
- Desire for individual mobility
- Transition to sustainable fuels/energy
- All things are connected (IoT)



Seven usage-based clusters of functionalities are defined in the area of Connected Cars

Customer-specific product packages



EVERYTHING WE DO AT VOLVO CARS STARTS WITH PEOPLE



QUALITY TIME IN CAR

Master of the urban commute



CONNECTED LIFE

Services integration



CONNECTED SAFETY

Networked Society

- **INFOTAINMENT, NAVIGATION**
- **HMI AND USER EXPERIENCE**
- **PREDICTIVE MODELLING & TRAFFIC MANAGEMENT**
- **REAR SEAT ENTERTAINMENT**

- **REMOTE SERVICES (VOC)**
- **DIGITAL KEYS**
- **ROAM DELIVERY**
- **USAGE BASED INSURANCE**
- **CAR SHARING**

- **ROAD FRICTION INFORMATION**
- **CAR 2 CAR**
- **CAR 2 BIKES**
- **CAR 2 INFRASTRUCTURE**

AUTONOMOUS DRIVE



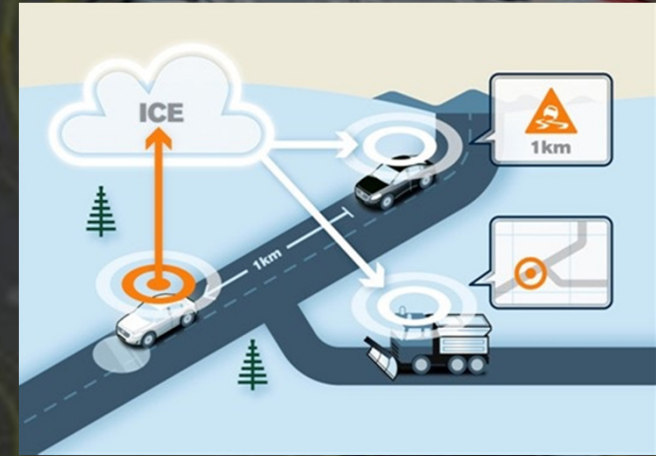


AUTONOMOUS DRIVE: ICE



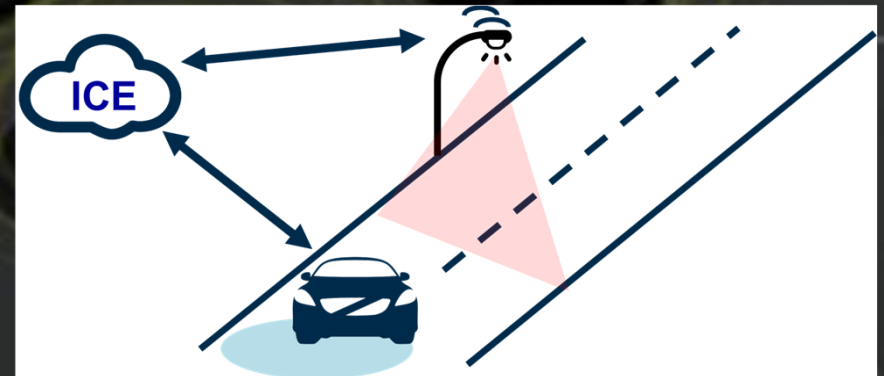
What

- World-first concept in cloud-based road condition safety technology: *Sending RFI to connected street-lights*
- Physical set-up at booth: frozen padge under wheel triggers street-light



Messages

- Volvo is an innovation-leader and explores technology to improve peoples lives
(societal focus at MWC vs. individual focus at CES) Volvo is a leader in safety and takes it to next level (cloud-based safety)
- Volvo uses smart partnerships to create new value



CONNECTED SAFETY



CONNECTING CYCLISTS AND CARS





CONCLUSIONS

- OEM's are adding additional levels of connectivity to their business, less focus on infotainment related connectivity and more focus on the networked society and autonomous cars
- OEM's will require, on one hand big data to secure improved "in car services" , and on the other hand, safe, reliable and quality assured networks to launch next gen services
- The importance of personal data and how OEM's manage privacy of the customers
- Focus on integration of services giving customer spare time to spend with family and friends rather that sitting in ques from work