

Global Trends

- Urbanisation
- Growing mega cities
- Air quality major health problem
- Traffic accident global health issue
- Time for commuting
- Desire for time efficiency
- Desire for constant connectivity





Why AD? – Customer Perspective

- What is it that modern people are lacking?
 - Time
 - Constant connectivity

What if we can create a car that offers time, connectivity and a safe ride?



Autonomous Driving Functionality



Driver out of the loop

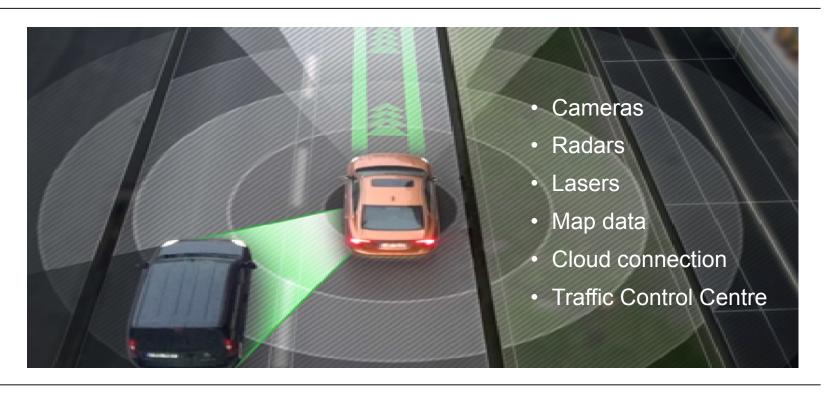


A self-driving vehicle must be able to handle all situations (and prove that it can!)

No fall back responsibility for the driver **SAE Levels 4 and 5** Highly/ Fully autonomous vehicles

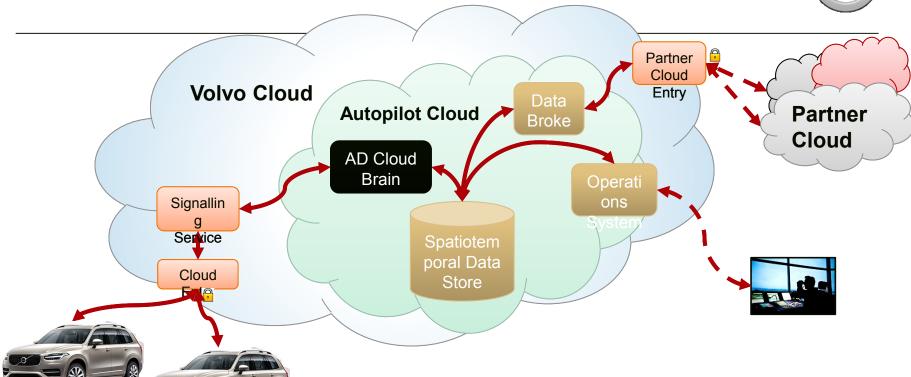
Volvo Autonomous Technology





AD/ Cloud Connectivity







Connected Autonomous Driving



- Optimized traffic flow:
 - · Optimized weaving
 - Speed and distance between vehicles.
 - Reduced need for infrastructure investments.
- New mobility models:
 - Cars on demand
 - 'Peer to Peer' sharing
 - Ride sharing
- Autonomous parking:
 - Cars range themselves away from city centres
- Merge between individual mobility and public transportation



Connected Autonomous Cars Conclusions



- Highly and Fully Autonomous vehicles (levels 4 and 5) will bring many opportunities to the society and to its citizens and will enhance sustainable mobility:
- AD levels 4 and 5 will safely enable the driver to do other things while the car is in control.
- Connectivity essential for the safe performance of highly and fully autonomous vehicles.
- Connectivity may be used for sharing important safety data and optimizing traffic
- Cloud connectivity for tactical and strategic decisionmaking.
- Only minor infrastructure changes are needed for this development.



• Save people's time and uncomplicating their lives!

