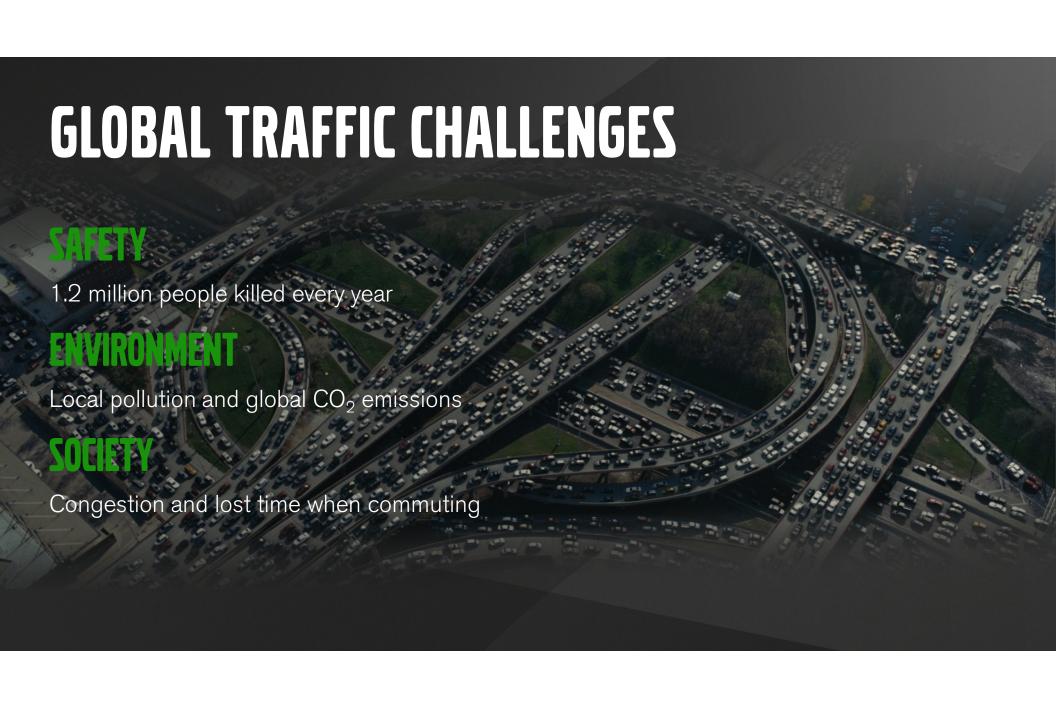
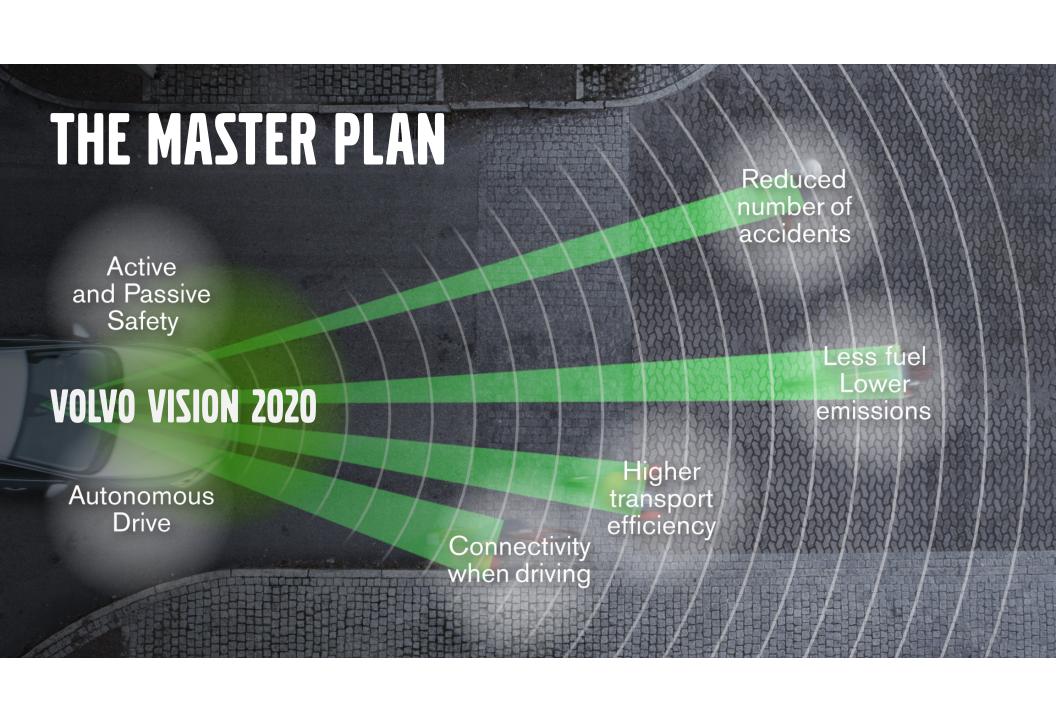


AUTONOMOUS DRIVING

KALLE RUNNBERG

Director, Government Affairs, Volvo Car Group





AUTONOMOUS DRIVE



- A KEY ENABLER FOR SAFE TRANSPORTATION

Over 90% of all accidents are due to human errors

Minimizing and long term eliminating human errors by extensive use of driver support systems is an important tool to move towards the ultimate safety goal of zero collisions.

Human Errors (57~93%)

Traffic Environment (34%)

Vehicle Faults (13%)



TODAY

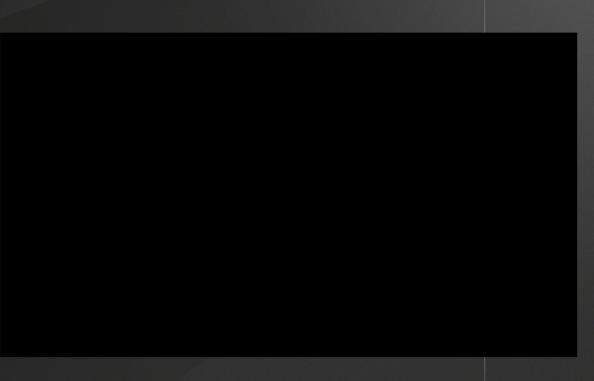
- Park Assist Pilot
- Collision Warning with Full Auto Brake
- Pedestrian & Cyclist Detection
- City Safety
- Lane Keeping Aid
- Adaptive Cruise Control





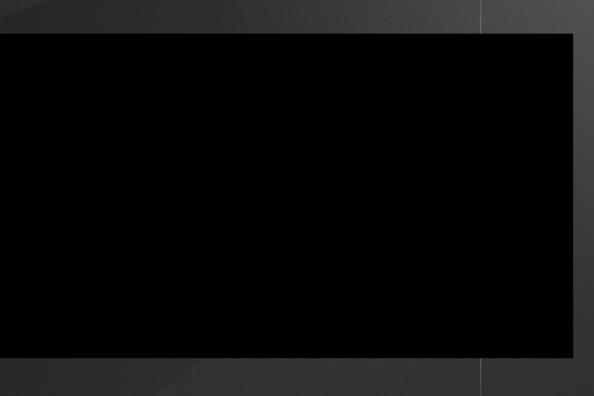
TOMORROW

Autonomus Parking





- Autonomus Parking
- Road edge and barrier detection with stear assist





- Autonomus Parking
- Road edge and barrier detection with stear assist
- Pedestrian & Cyclist
 Detection in darkenss



- Autonomus Parking
- Road edge and barrier detection with stear assist
- Pedestrian & Cyclist
 Detection in darkenss
- Animal detection



- Autonomus Parking
- Road edge and barrier detection with stear assist
- Pedestrian & Cyclist
 Detection in darkenss
- Animal detection
- Car 2 Car communication



- Autonomus Parking
- Road edge and barrier detection with stear assist
- Pedestrian & Cyclist
 Detection in darkenss
- Animal detection
- Car 2 Car communication
- Adaptive Cruise Control –With steer assist



MAIN CHALLENGE



SECURE RELIABLE UNDERSTANDING OF THE ENVIRONMENT AROUND A SELF-DRIVING CAR



AUTOMATED DRIVE - CHALLENGES



- Legality
- Liability
- Technology
- Business models
- Infrastructure
- Societal



