Autonomous Driving
is changing the world drastically

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Program Director, Volvo Cars

VOLVO

Three main projects

Towards 2021: Our first unsupervised AD car on the market

The architecture

UBER

The software

ZENUITY

Make it real.

The human

Drive Me

SELF-DRIVING CARS FOR SUSTAINABLE MOBILITY

Joint effort and research

Global challenges – Demand a joint effort

Drive Me – Nordic model of collaboration

Pilots with real customers in real traffic

Research platform – How autonomous cars contribute to sustainable development

Drive Me Gothenburg – From supervised to unsupervised with real customers

TRAFIKVERKET
SWEDISH TRANSPORT ADMINISTRATION

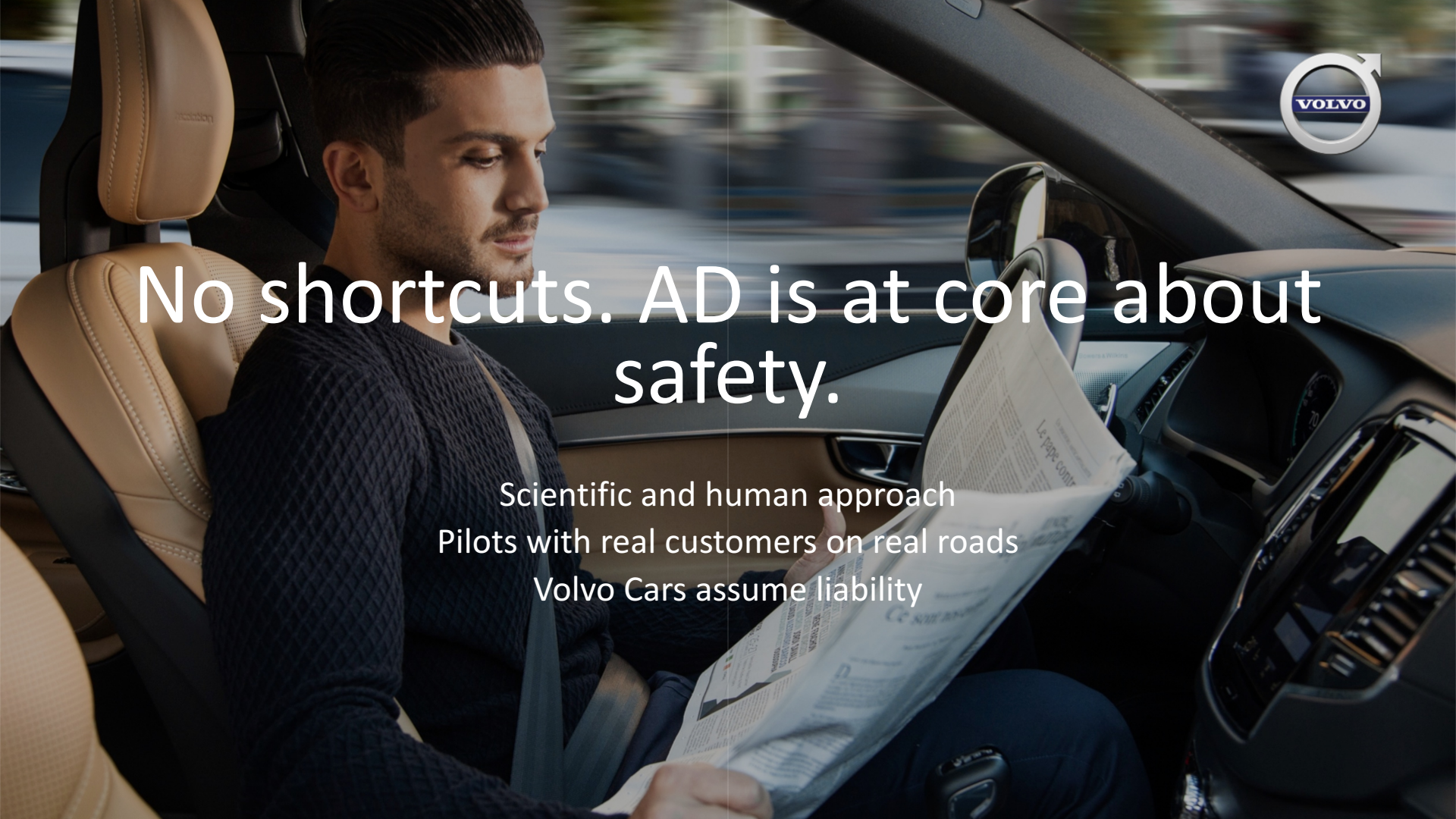
Autoliv

Drive Me
SELF-DRIVING CARS FOR SUSTAINABLE MOBILITY

City of Gothenburg

LINDHOLMEN SCIENCE PARK

CHALMERS



No shortcuts. AD is at core about safety.

Scientific and human approach

Pilots with real customers on real roads

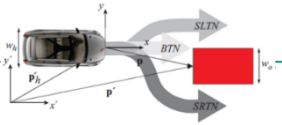
Volvo Cars assume liability

Safety impact analysis

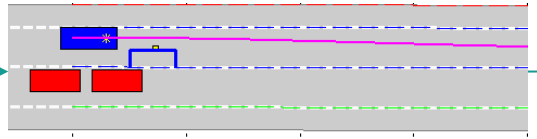
1) Self-driving conditions

2) Definition of safety conflict situations

3) New precautionary safety and conflict management



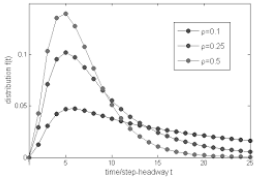
4) Virtual CAE verification v1



5) Vehicle design to prevent new risks e.g. *Driver's role, handovers, misuse, seating positions, drowsiness etc*

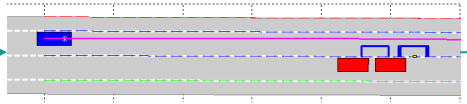
6) Field test(s)

7) Safety performance indicators



8) Determine if new risks emerge

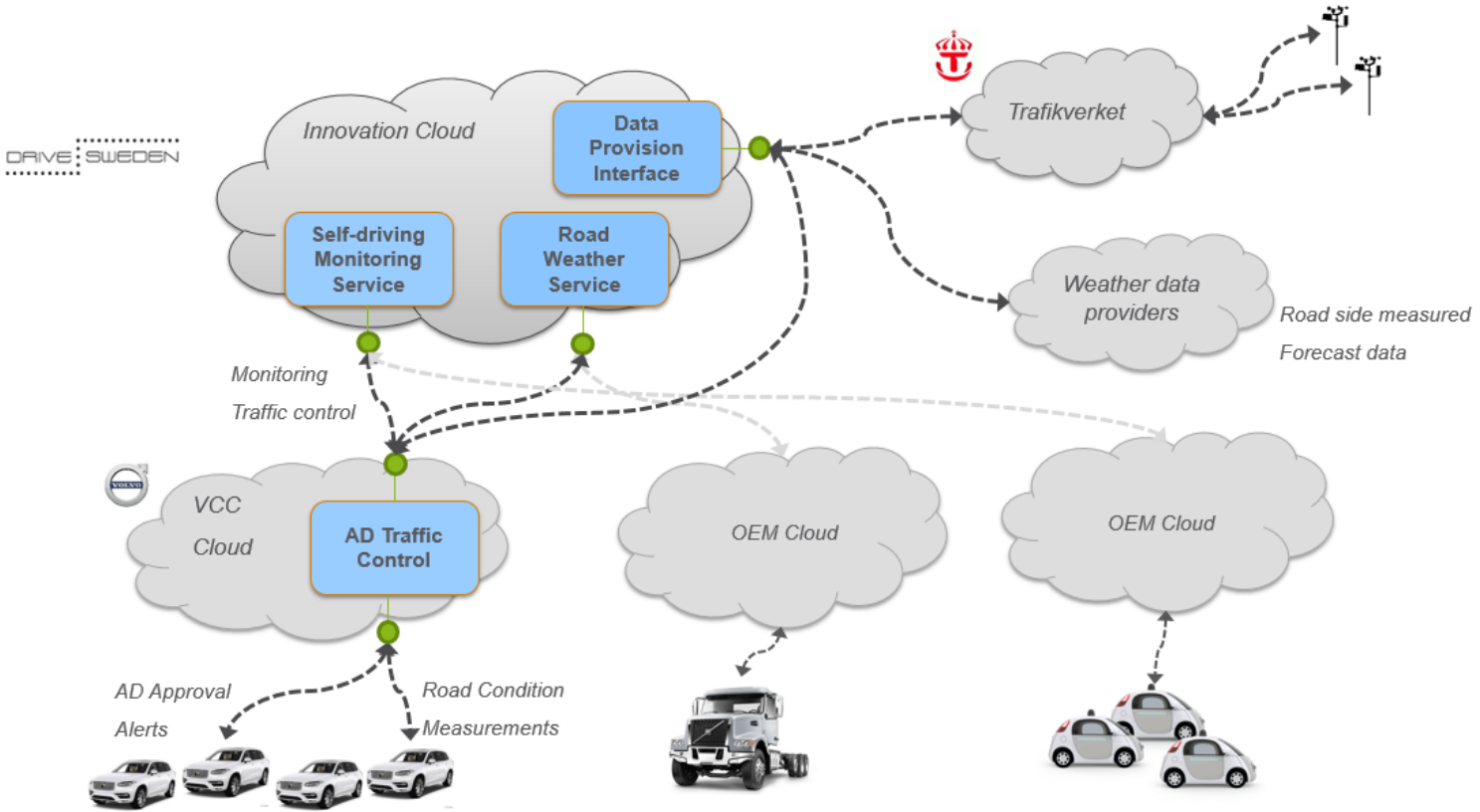
9) Virtual CAE verification v2



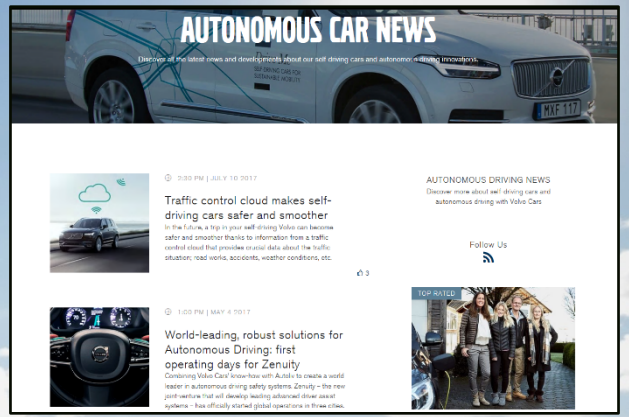
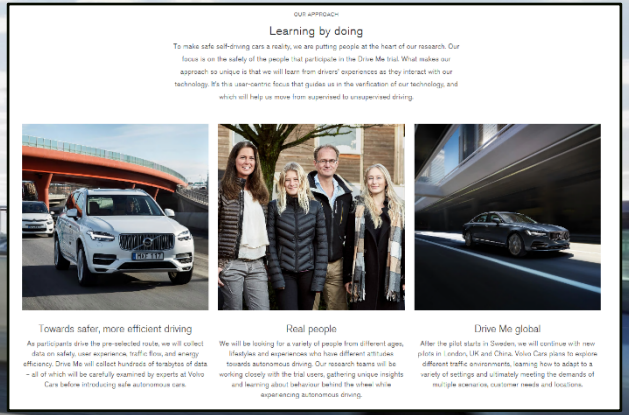
10) Sum all safety evidence

(see Lindman et al 2010, Korner, 1989)

Digitalized transport system



VOLVO

For more information visit

volvocars.com/autonomousdriving