

Future mobility Challenges and opportunitets.

Kalle Runnberg Volvo Cars

Challenges for future mobility

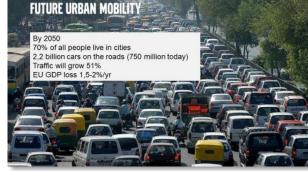




Global traffic challenge

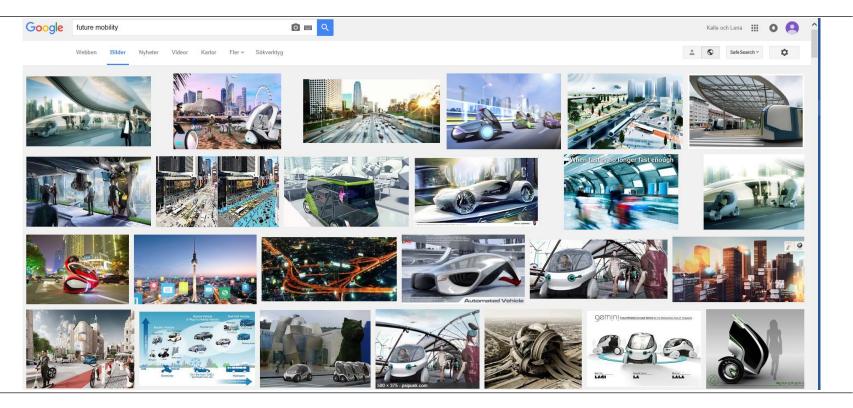








Opportunities for future mobility....





Will Autonomous Cars in the future....



... Create Time When Commuting?

AD vehicles may offer time to drivers for utilization during daily commute.

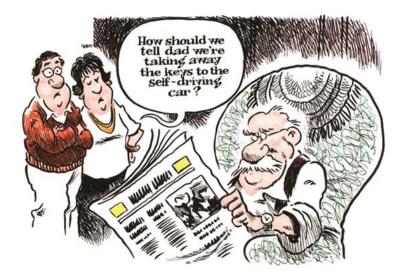




... Offer Mobility for More People?

AD vehicles may offer mobility for:

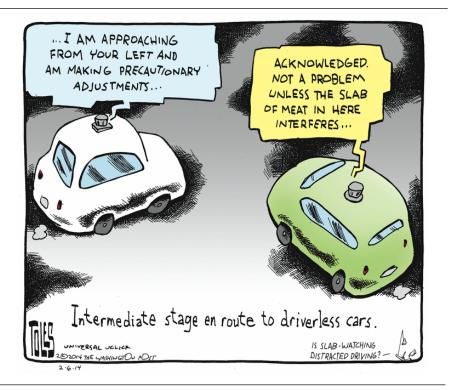
- The physically challenged
- Older people
- Individuals unable to get a drivers license



... Need Human Interaction?



Should drivers be able to switch off the system/ take over the control at all times?



... Reshape Car Sharing?



Self-rearranging AD vehicles for car sharing:

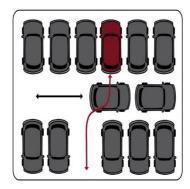
Will come to you when you need it and you leave it to take care of itself when you arrive.





... Automate Parking?

- More optimized use of urban space.
- Improved personal security.
- Densification of urban areas:
 - Accessibility to residential areas.
 - Parking away from residential areas.
 - 'Brownfields' used for parking garages.

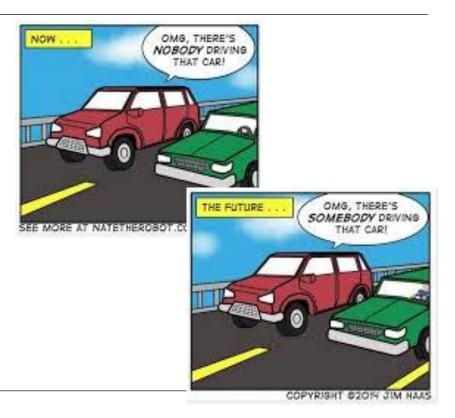






... Change Interaction with Other Road Users

- How will other road users react?
- Interference with other road users?





Whats ongoing?



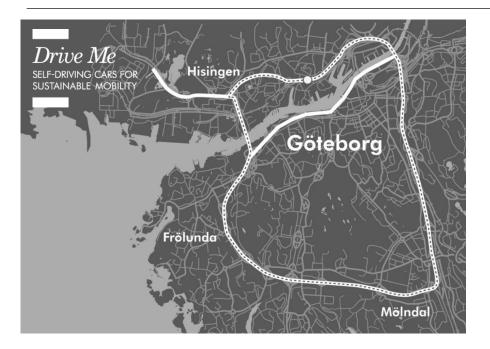
Our strategy



Leadership within Autonomous Driving by pioneering offers to customers



Swedish large scale research program for AD cars in real traffic with real drivers generates key knowledge.



- World-first project on public roads
- 100 self-driving Volvo cars in real traffic
- Real customers behind the wheel
- 75 MUSD investment
- Co-operation with Swedish authorities
- Project started 2013, real pilot in 2017











JOLV



The drive me project will give us knowledge about

- How to improving traffic efficiency, traffic environment and road safety
- Infrastructure aspects
- Suitable traffic situations
- Customer expectations on autonomous vehicles
- How surrounding road users interact with a self-driving car
- Legal aspects

