ACTIVE SAFETY TEST AREA
Innovation is not easy
Innovations reach us faster and faster

- Printing press
- T-Ford
- Digital camera
- Smart phone

Investing in your future

EUROPEAN UNION
European Regional Development Fund

ASTA ZERO
ACTIVE SAFETY TEST AREA

3
Autonomous vehicles

ELECTRICITY MAY BE THE DRIVER. One day your car may speed along an electric super-highway, its speed and steering automatically controlled by electronic devices embedded in the road. Travel will be more enjoyable. Highways will be made safe—by electricity! No traffic jams... no collisions... no driver fatigue.
Electrification

- Lithium ion battery price decreases 14-20% per year
- More robust than believed, 80% after 12 years
- Moving parts 2000 → 20
- More energy efficient
- Cheaper infrastructure for fuel
Automation

• Required technology soon here, regulatory aspects will slow intro.
• Commercial vehicles – safer, more efficient
• Light vehicles – safer, more comfortable
• New vehicle types – last mile, re-shape public transport
Mobility as a service

• Car utilization today approx 5% of lifetime
• Shared car can potentially be used 40% of lifetime
• Much cheaper, ”buy a coffee get a ride”

• Charging and cleaning outside city
• Reduced parking
AstaZero’s role?

• Automated vehicles have to be tested during development
• Automated vehicles will probably have to be approved.
• Automated vehicles will depend on infrastructure and connectivity
  – The infrastructure has to be tested
• Automated vehicles will need to handle
  – Mix with humans
  – Snow
  – Rain
  – Fog
  – Tunnels
• Cyber security
Indian intersection

https://youtu.be/iDxa0tVjcSk
Exempel AstaZero

• Chalmers Intersection (video)
  https://youtu.be/nYSXvnaNRK4
THANKS!

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THE WORLD’S FIRST FULL-SCALE TEST FACILITY FOR TOMORROW’S ACTIVE SAFETY.
The whole of AstaZero is adapted to suit cars, drones and heavy vehicles.