SAT

Synergies Autonomous Transport



Med stöd från







Goals

- Make future urban freight and passenger transport more sustainable, efficient, accessible and safe.
- Cooperation between robot and bus
- Testing with potential users at Chalmers

Execution



Business Models & Incentives Handels



Urban Development Prepair the real estate industry on a future with autonomous

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Transport Efficiency and CO2 reduction Chalmers



Ericsson Innovation Cloud



User Centered Design Chalmers



Create a concept and working prototypes Hugo



Testing Keolis

Business Models & Incentives: Handels

Conclusions

- All parties see value in autonomous solutions
- A completely autonomous transport system is perceived as costly and far into the future
- Driving lanes designated for autonomous vehicles if flexible usage is made possible

- A local mobility center that offers a variety of local services is expected to create economic and social value
- A need for regulation that is long term but flexible

Urban Development

Samverkande Autonoma Transporter

- Leveransrobot och självkörande buss testas tillsammans på Chalmers med syftet att se hur gods- och persontransporter kan samverka i stadsmiljö.
- Partners:

Akademiska Hus, Chalmers, Chalmersfastigheter, Ericsson, Framtiden Byggutveckling, Göteborgs Stad (trafikkontoret), Göteborgs Universitet, Hugo Delivery (projektledare), Johanneberg Science Park, Keolis, Landvetter Södra Utveckling AB, Mölndala Fastighets AB, PostNord, Riksbyggen, Skanska, Tele2, Västtrafik, Wallenstam

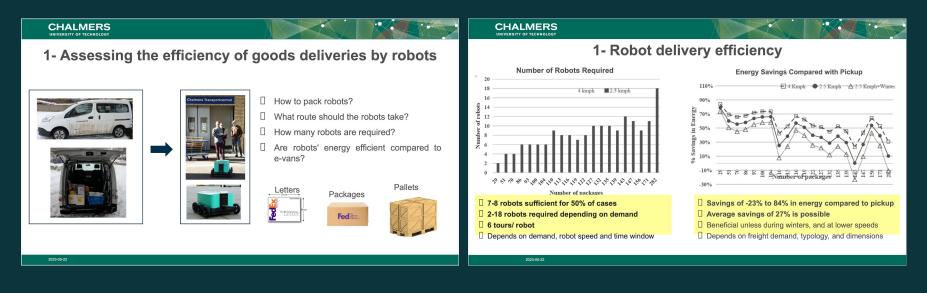
• Finansiering: Vinnova inom innovationsprogrammet Drive Sweden.







Transport Efficiency



Potential energy saving of 27%

Ericsson Innovation Cloud

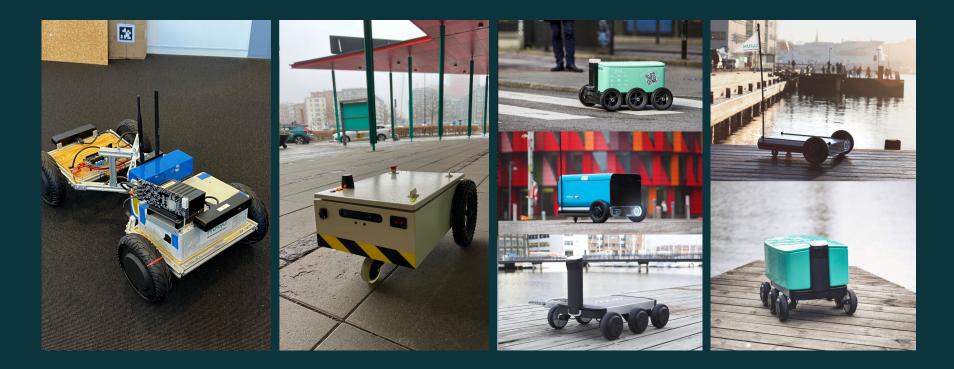


User Centered Design

- There is great potential for a positive user experience and acceptance
- Standardization will be required for aspects such as driving behavior, but also for the surrounding robot delivery system



Hugo, concepts and prototypes



Collaboration between robot and bus



Results

- Workshops with real estate
- Robot + Bus Concept tested
- Unattended deliveries concept initially tested
- Potential energy saving of 27%
- More development needed for rollout.
 Communication protocol, localization, user interaction, standardisation

