

Preparation project Testbed AV Trollhättan

Accelerated processes for testing Autonomous Vehicles on public roads

Jörgen Einarsson
Project manager, dep. of city planning
The city of Trollhättan



Trollhättans
Stad

AstaZero CHALMERS RISE

DRIVE SWEDEN

Background/challenges



- Discussions with Vinnova, Drive Sweden, NEVS, and T-engineering regarding a Testbed for Autonomous Vehicles in Trollhättan: Resulted in preparatory project TAVT, with the following objectives:
- The application process for testing AVs on public roads should become more streamlined.
- Municipalities and businesses should be able to contribute to increased security and to a stronger basis for the application

Project goals



- Simplify and expedite the application process by:
 - Developing guidelines at sketch level for the Swedish Transport Agency and for municipalities.
 - Conducting 3D surveys of testing areas and provide data in formats usable to the AV industry.

Test areas for 3D scanning



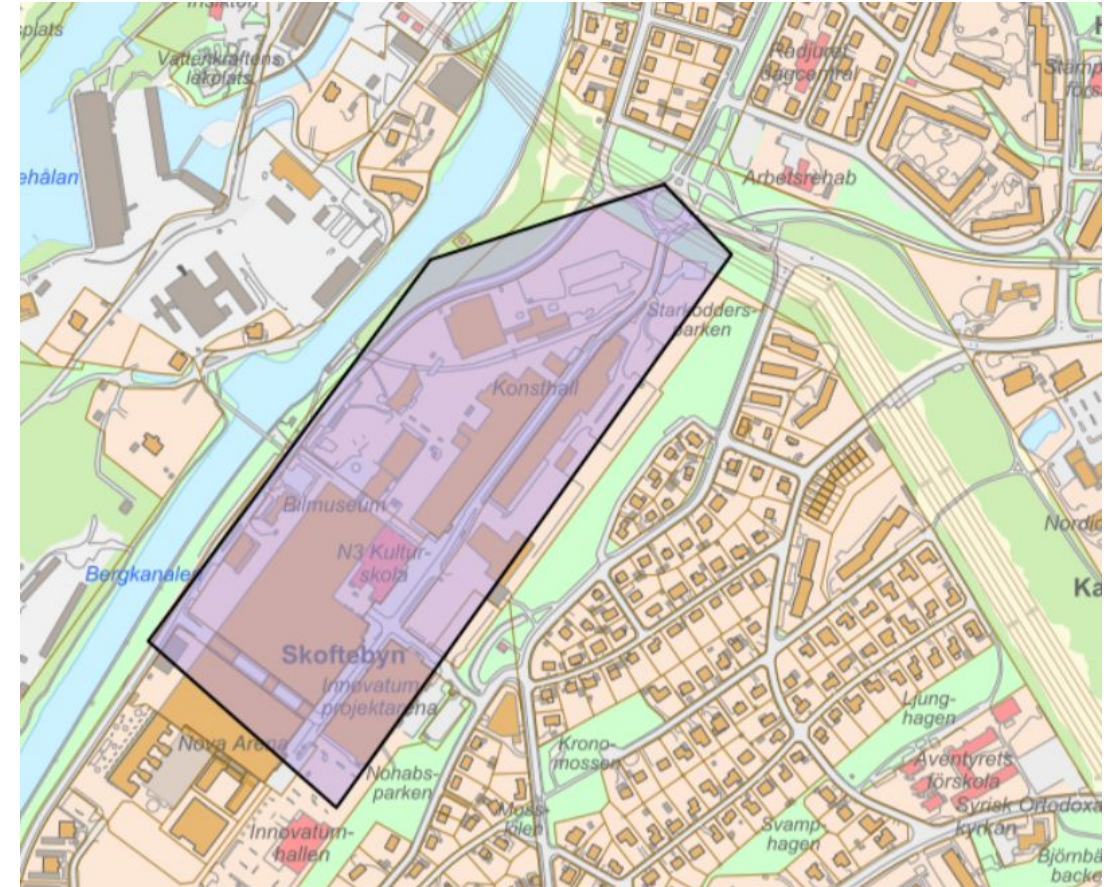
Stallbacka industrial area (NEVS test area)

Innovatum district (T-engineering test area)

The test areas

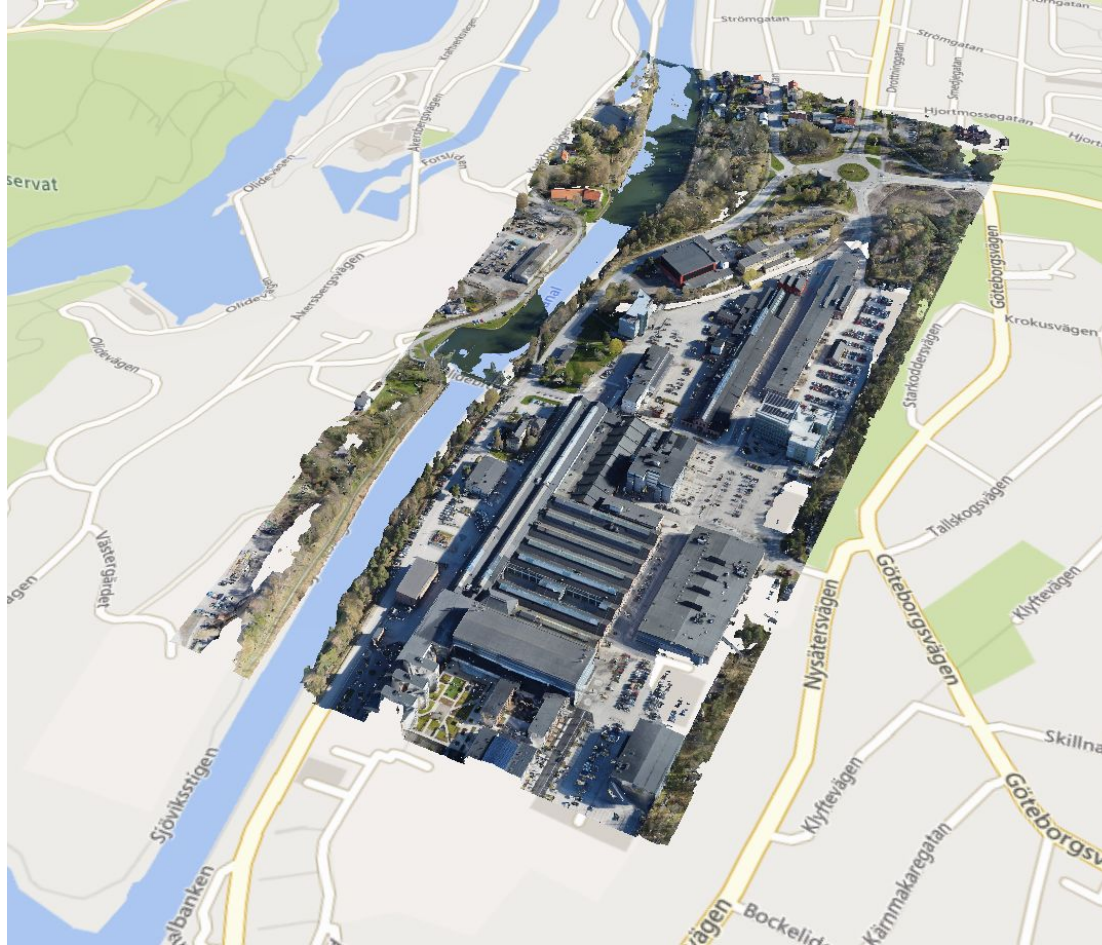


Stallbacka



Innovatum

Photogrammetry sample



Results

- Recommendations for the Swedish Transport Agency developed.
- Recommendations for municipalities created.
- Trollhättan can provide geodata that may reduce the time needed for a vehicle to scan a road area and/or to be used in company's simulations.
- The industry is changing rapidly; is Sweden keeping pace with it?
- The Swedish Transport Agency has been lacking resources



Partners



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Contact

Jörgen Einarsson

+46 520 497 627

jorgen.einarsson@trollhattan.se

www.trollhattan.se



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