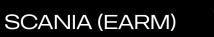
IQPILOT @ FFI RESULTS CONFERENCE









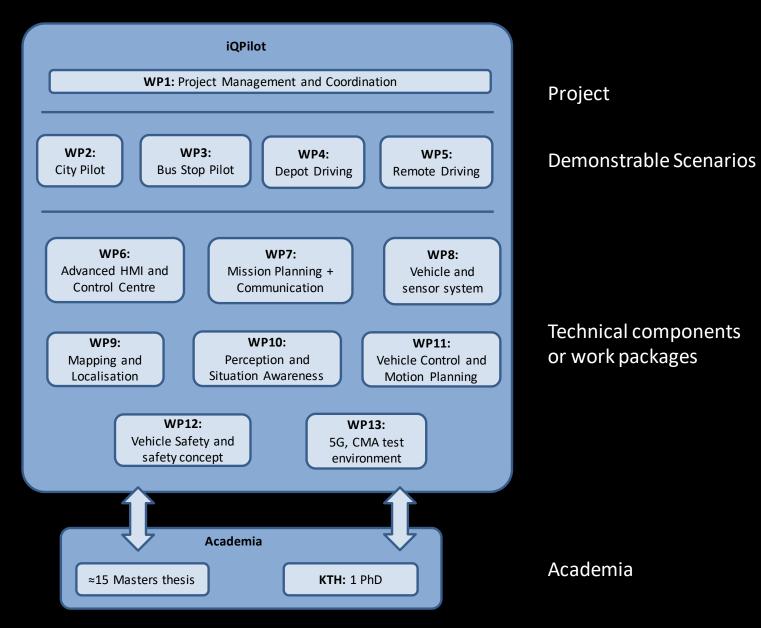
iQPilot – Key Aims

- To build up 2x autonomous buses for research and demonstration purposes
- To demonstrate some of the fundamental technology towards autonomous driving in urban / city areas
- To demonstrate ability of an autonomous bus to handle bus stop situations
- To demonstrate the feasibility of running an autonomous bus in an autonomous transport system (with partner project iQMobility)
- Why autonomous (driverless) vehicles;
 - Around 60% of total cost of operating a bus is the cost of the driver...
 - Shortage of drivers in many markets
 - Industry generally progressing towards autonomous across the automotive industry

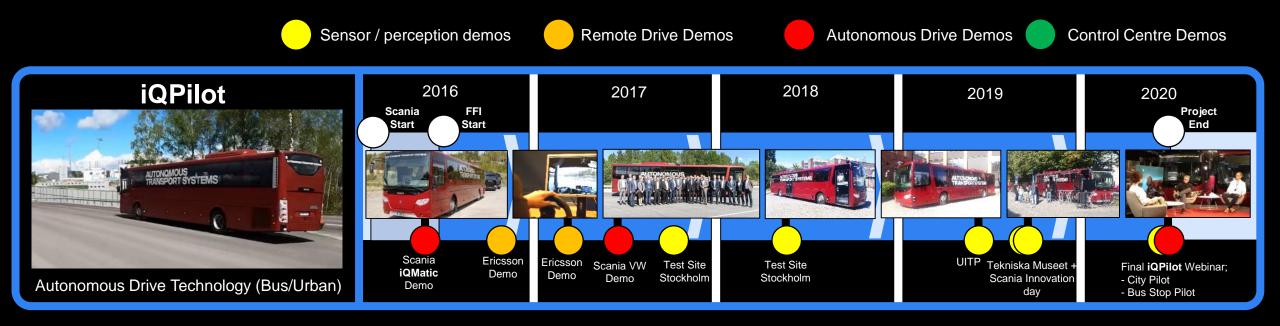




iQPilot Working Areas

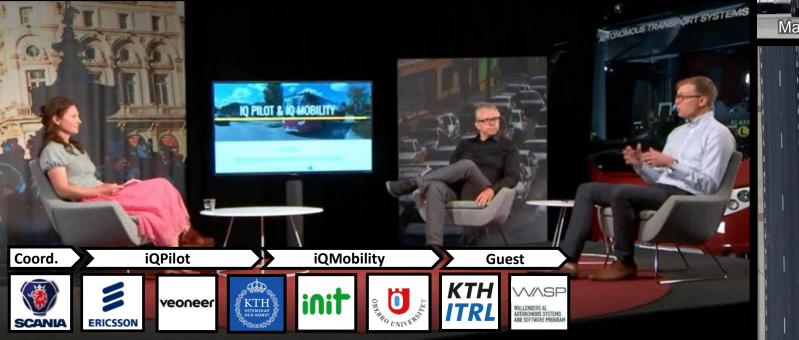


iQPilot Timescale 2016 to 2020





iQPilot Final Results Demo / Webinar



iQPilot + iQMobility's end (30th June 2020) marked with a 2 part webinar

- Part 1;
 - Live studio talks and discussion on broadcast
 - Guests from Scania, project partners and KTH ITRL
 - Pre-recorded video demonstrations on key areas / showcases
- Part 2;
 - Live presentations + discussion for each project partner / technical work package area with presenters in Zoom
 - Guests from iQDeep + WASP funded PhD students





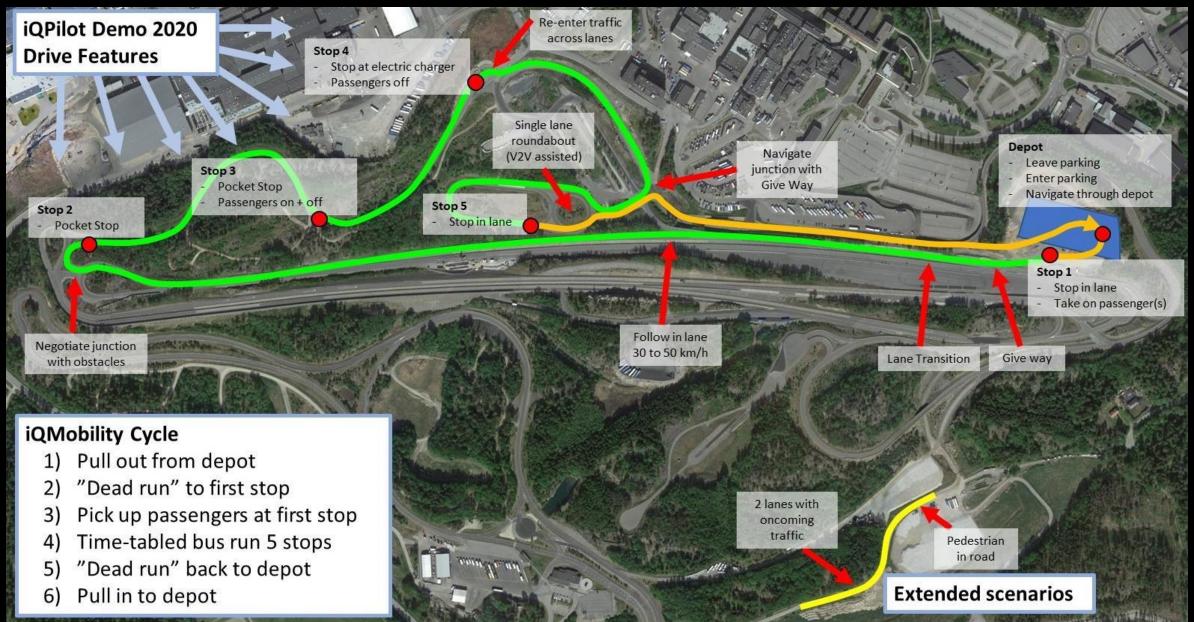




SCANIA IQPILOT 2016 TO 2020

https://www.youtube.com/watch?v=BtoZAb2FXGo

iQPilot / iQMobility Main Showcase – Strategic Overview



iQPilot Main Showcase – Scenario Summary



1) Pull-out from depot parking



2) Passenger Pickup



3) Merge with faster moving traffic



4) Cross lanes to desired lane



5) Follow vehicle in front



6) Navigate sharp corners



7) Drive into pocket bus stop



8) Multiple passenger pick-up/drop off



9) Electric Charger Bus Stop



10) Navigate difficult junctions/corners

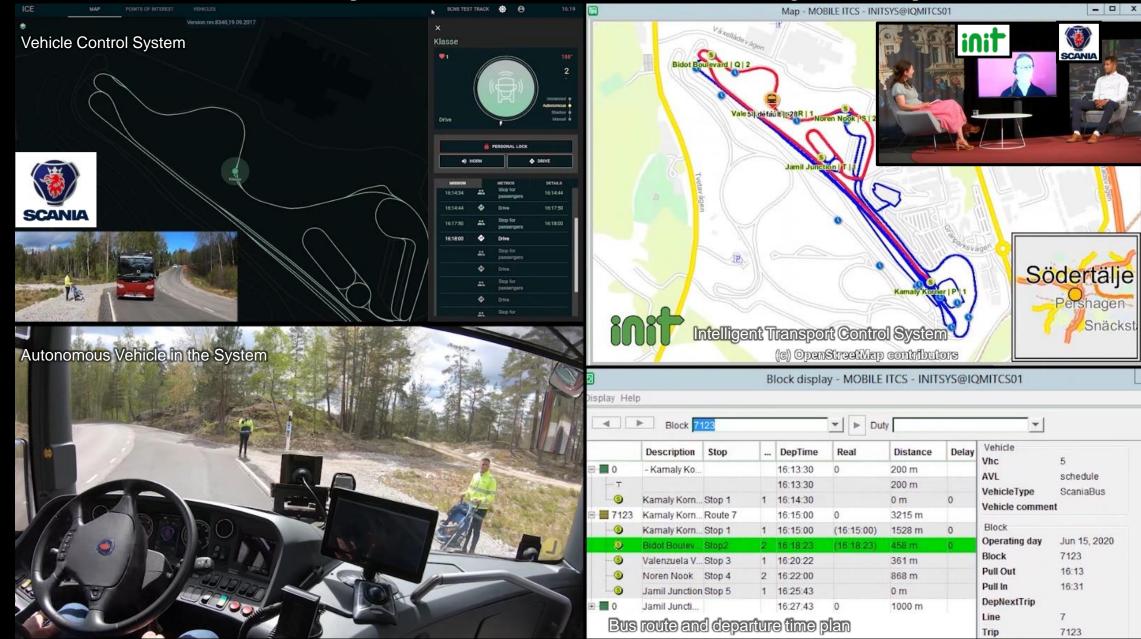


11) Negotiate single lane roundabout



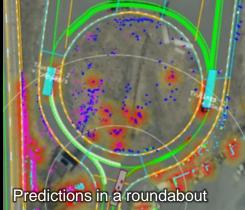
12) Return to depot parking

iQPilot + iQMobility = Autonomous Transport System



iQPilot Situational Awareness



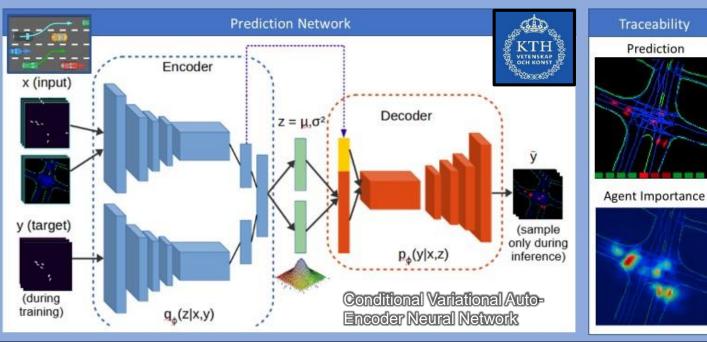


FFI

Traceability Prediction

iQPilot Situational Awareness PhD Project

Trajectory prediction in interaction-heavy environments [Joonatan Mänttäri]

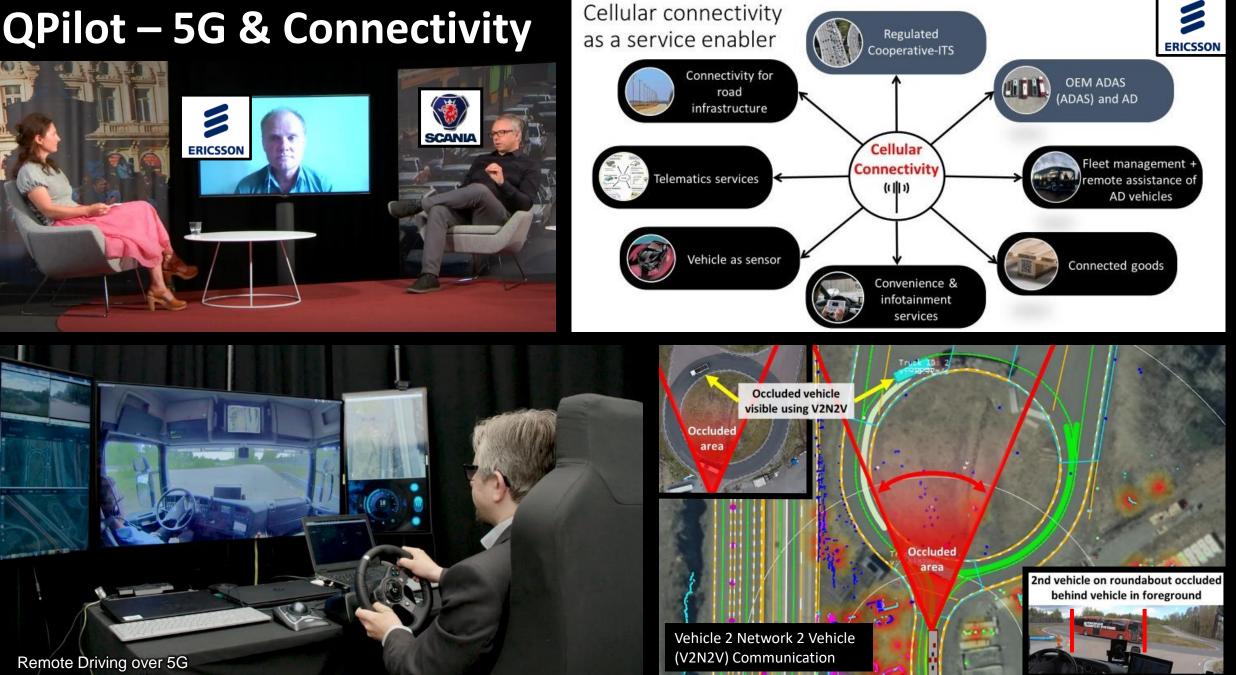




iQPilot Perception and the Streets of Södertälje



iQPilot – 5G & Connectivity

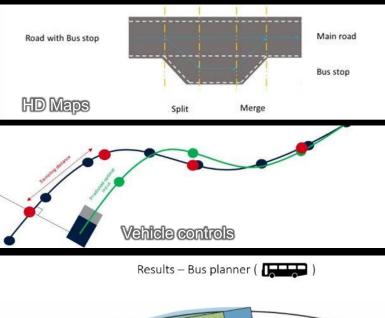


iQPilot – Other







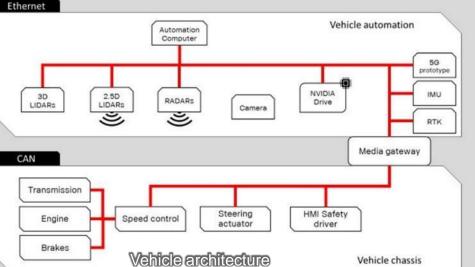


Planned path
Obstacle
Vehicle body

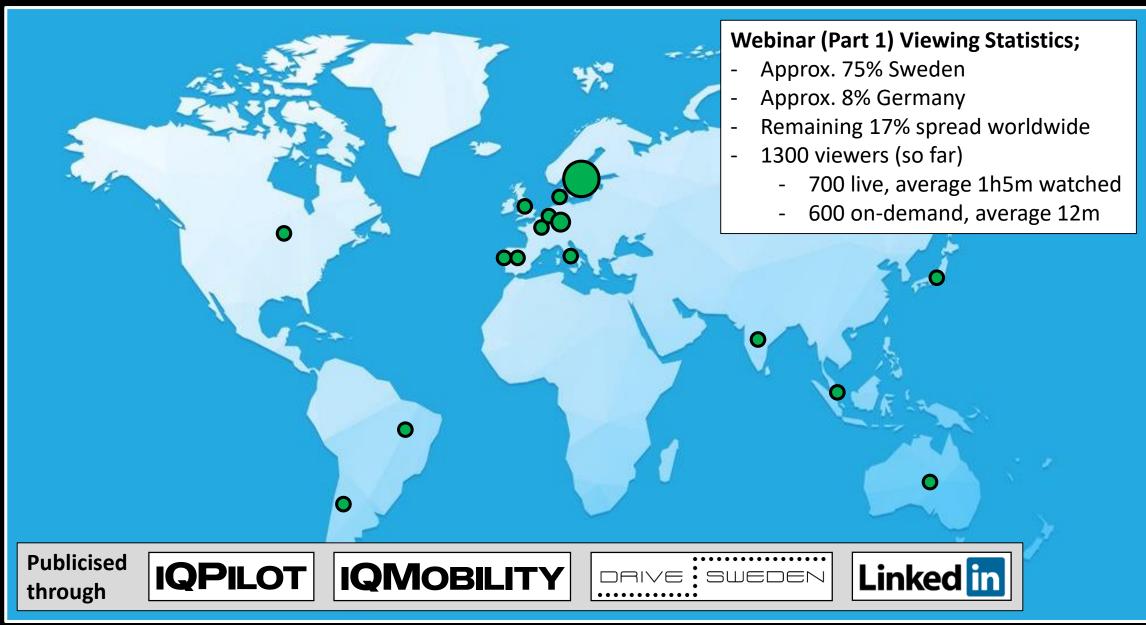




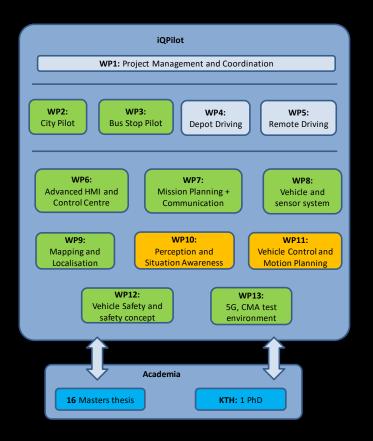




iQPilot Results Webinar – Exposure Globally



Key iQPilot Outcomes (💓)







Starting platform and knowledge towards products, services and new pilot project(s)



Solid functional basis towards fully driverless buses (in the long term)



New / Continued research focus areas as dedicated projects





Expanded organisations with autonomous development and autonomous solutions

iQPilot Information + Video Result Links

Contact <u>George.Dibben@Scania.com</u> for information / links

- Results Webinar Part 1;
 - iQPilot & iQMobility [1h 58]
- Results Webinar Part 2;
 - Stream 1 (iQPilot technology) [1h 58m]
 - Stream 2 (iQPilot perception) [1h 34m]
 - Stream 3 (PhD students) [2h 3m]
 - Stream 4 (iQMobility) [1h 42]
- Other videos;
 - Trailer iQPilot & iQMobility [45s]
 - iQPilot & iQMobility Summary [9m]
 - iQPilot Autonomous Bus in the System [6m 30s]
 - iQMobility Autonomous Bus Transport [4m 30s]
 - iQPilot & iQMobility 5min countdown [5m]

https://www.youtube.com/watch?v=f-56Ekt1xtl

https://www.youtube.com/watch?v=L8t_1_ee0G4 https://www.youtube.com/watch?v=cyknLNHj3Aw https://www.youtube.com/watch?v=RT_0FVn1oDg https://www.youtube.com/watch?v=HeL2dSbg8t4

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