Drive Sweden
A national program on automated transport systems
ITFVHA 2015

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Strategic Innovation Programs

• The Swedish government has initiated several Strategic Innovation Programs (SIP), jointly financed by three government agencies plus a 50% industry contribution
  • The purpose of all SIPs is to
    • to find sustainable solutions to global challenges for societies
    • create conditions for international competitiveness
  • Expected life cycle 12 years
  • Each SIP has the government’s mandate to coordinate activities within its respective field
Vision

• Drive Sweden drives the evolution towards a transportation system based on automation, digitization and servification; which creates a sustainable society and strengthens Swedish industry
Mission

Drive Sweden

- has a holistic perspective on vehicle automation and works in close cooperation between government, industry and academia
- facilitates world-class projects and builds competence
- has a clear coordinating role for national activities and a comprehensive overview of all relevant projects around the globe
- cooperates with all stakeholders to prepare for the next generation mobility (incl. financing, legal framework, integrity, safety and technology)
Organization

- The founding members represent all relevant sectors:
  - Government & Cities
  - Vehicle manufacturers
  - ICT & Suppliers
  - Universities & Research institutes
  - Test facilities
- Drive Sweden is open to anyone
Some examples of projects
WASP
- a new major effort on basic research (225 MUSD)

Wallenberg Autonomous Systems Program

Eleven year program 1800 MSEK
KAW 1300 MSEK
Univ 200 MSEK
Industry 300 MSEK

Recruitment program
Internationally competitive offers

Graduate School
Ambitious program, Industrial PhDs

Software

Strategic Areas

Vehicles, Robots and Humans
Systems of Systems
Software

Data Analytics and Learning
Collaboration and Interaction
Model-Based System Engineering
Networked and Distributed Systems
Software for Engineering Design, Synthesis, and Autonomous Systems

Joint Research Laboratory

External applications
Internal Research
External vehicles
• World-first project on public roads
• 100 self-driving Volvo cars in real traffic
• Real customers behind the wheel
• $75 million investment
• Co-operation with Swedish authorities
• Project started 2013, real pilot in 2017
DRIVE ME
road sections

Drive Me
SELF-DRIVING CARS FOR SUSTAINABLE MOBILITY

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Test route 2014
Test route 2017
Drive Me sub-projects

• The actual 100 car pilot
• Traffic flow analysis
• Safety analysis
• Parking application
• ”Campus shuttle”
• Energy efficiency analysis
• …to be continued
The Drive Me HMI design will be disclosed tomorrow
Connected Mobility Arena

- Test site for advanced Connected Mobility applications
- Partners:
  - Ericsson
  - KTH
  - Scania
  - ""
Automated Transport Services for People & Goods

Services & Business models

ICT & Cloud infrastructure

Vehicles & On-board technology

Road infrastructure & City planning

Legal framework

Basic research
Automated Transport Services for People & Goods

- Services & Business models
- Connected Mobility Arena
  - ICT & Cloud infrastructure
  - Vehicles
  - On-board technology
  - Drive Me
- Road infrastructure & City planning
- Legal framework
- WASP
  - Basic research
It's not all about driverless vehicles. This is a completely new approach to mobility. We are on the threshold of a radical shift, and it's happening fast. In just a few years the world will change. We will see entirely new mobility business models enabling sustainable cities.

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Link to animation:
https://youtu.be/EMD_0SjzTcA