High Capacity Transport program

A Swedish model for innovation into implementation

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What is CLOSER?

CLOSER is a Swedish competence node and platform for collaboration and demonstration for increased transport efficiency.
Freight transports on roads

• The Swedish state road network is 10 times as long as the railway network
• 65% of the tonne-km (land based) goes on roads in Sweden.
• 2/3 of this freight is concentrated on a few big roads.
• An average road transport is 100 km and only 3% are longer than 500 km.
A possible conclusion/solution

Freeing the roads from dependence on fossil fuels, must largely be made through action in the road transport system.

Biofuels ... 
Electrofuels...  
Electrification... (Electric Road Systems)  
Increased efficiency… (High Capacity Transport)  
…. 
En Trave Till – started in 2009 (Skogforsk)
Test and evaluation of longer and heavier vehicles in a triple helix context.
The government takes the decision to open up parts of the road network for heavier vehicles. 

Results from the HCT programme is implemented into the regulatory frameworks concerning Vehicles (Transportstyrelsen) and Infrastructure (Trafikverket).

Heavier vehicles allowed on parts of the road network (autumn 2018)

Update of HCT roadmap.

More demonstrations with longer vehicles and multimodal concepts

Goal 2017

Goal 2018

Goal 2020

Longer and heavier vehicles run on parts of the network

Development of Roadmap for HCT

Swedish Transport Administration decides to start the HCT programme within CLOSER

Goal 2013

Goal 2016

Goal 2019

Goal 2020
HCT programme - objectives

• Create a knowledge base for further development
• Develop and validate technologies and logistics
• Develop and validate the market and business models
• Measure the effects
• Carry out pilots where technology and market approaches are verified
HCT-program (CLOSER)

“The program aims to create conditions for introduction of HCT in a designated part of the Swedish road network in describing and developing problem scenarios, development needs, possible solutions and also test and demonstrate these”
High Capacity Transport

Urban Mobility

Digital & connected logistics

Horizontal collaboration & new business models

Multimodal innovations

Energy supply & logistics

CLOSER

FOCUS AREAS
Way of working

CLOSER as Competence node

- Larger Conferences
- Regular Round-table meetings 4 times a year
- Special project groups & workshops
- Communication, web, newsletters etc.

CLOSER Project process

- Project Initiation
- Pre-studies
- Test & Demo
- Evaluation
- Implementation
Lessons learnt 1 (2)

• Complex challenges and societal transformation need **new forms** of collaboration

• **Jointly** find ways to overcome challenges - no actor can reach the goals on their own

• True **quadruple helix** involvement is realised via the demonstrations

• **Neutral actor** is needed for the coordination – to simplify cooperation between "competitors" and as an engine / facilitator

• Fact based results → **credibility**
Lessons learnt 2 (2)

- The work is built on true (industry and societal) needs
- Everybody can see benefits (financial, environmental…) but they are different depending on the type of actor
- Cost efficient – joint resources and joint knowledge development
- Understanding for each other’s different time horizons, goals, drivers…
- Through long-term collaboration trust is built among the actors
- Experience exchange between projects and research results
Nordic HCT-day 23 August 2017

150 participants from the Nordic countries
Thanks for your attention!

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