



5th Annual Conference on Electric Roads & Vehicles
February 26, 2018
Park City, UT

Strategic Roadmap for Electric Road System in Sweden

Magnus Lindgren

Swedish Transport Administration

Governmental goals

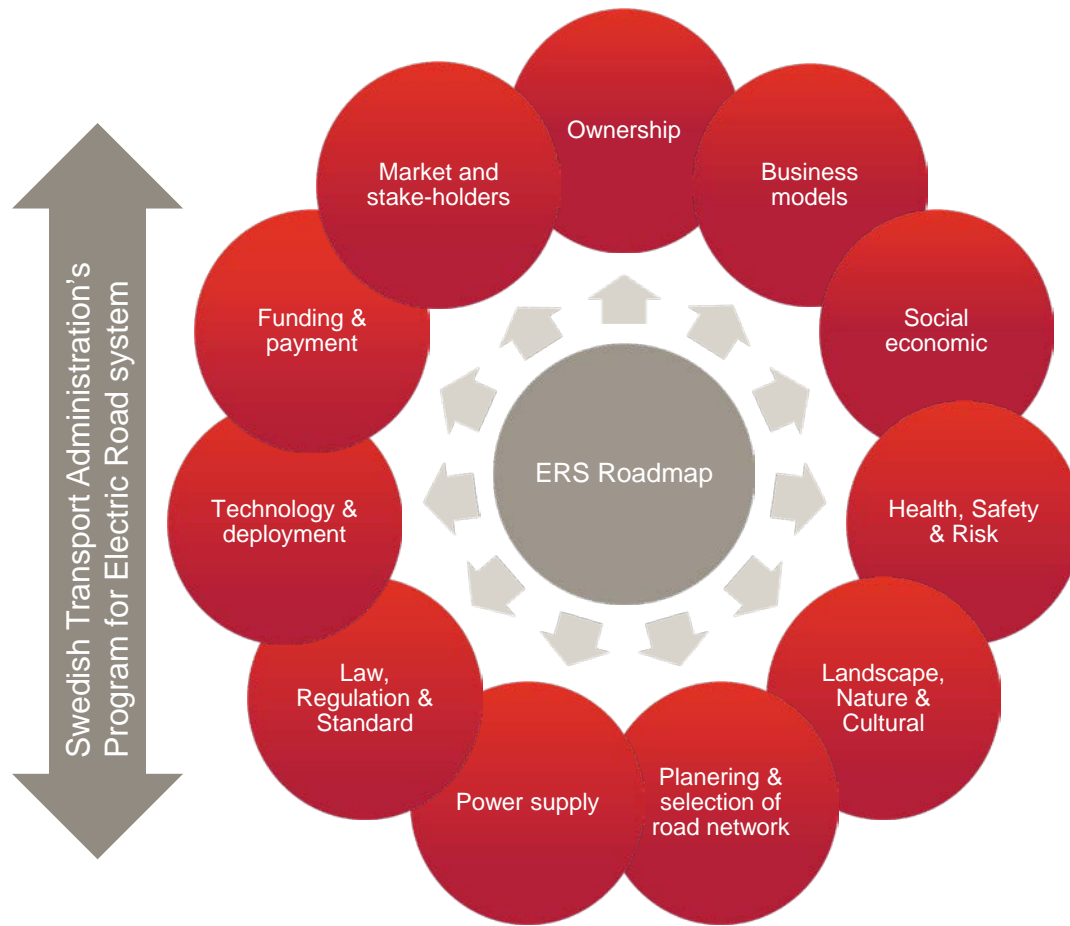
- Sweden is aiming to be one of the world's first fossil-free welfare nations
- Sweden shall have a leading role in the implementation of the Global Goals and the 2030 Agenda for Sustainable Development
- By 2045, Sweden will have net zero emissions of greenhouse gases into the atmosphere
- Emissions from domestic transport, excluding domestic aviation, will be reduced by at least 70 per cent by 2030 compared with 2010



 SUSTAINABLE DEVELOPMENT GOALS

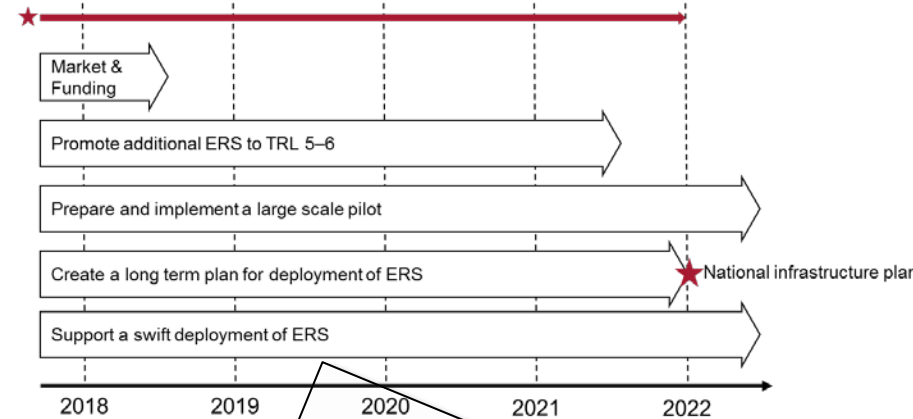


National Roadmap for ERS



National roadmap for electric road systems in brief

- Market and funding
- Promote, contribute to and pave the way for a broadened market and greater competition between the transmission systems by raising more systems to TRL level 5-6.
- Prepare and implement a major electric road system pilot
- Create a long-term plan for the construction and development of electric road systems



All parts included in a functional ERS need to be verified in a Pilot!

- Infrastructure
- Vehicles
- Power supply
- Traffic volume
- Effects
- Laws & Regulations
- Ownership
- Funding
- Access control & payment
- Business models
- And more...



National Roadmap

From the roadmap:

“Sweden has gained momentum as regards the development of ERS compared with the rest of the world thanks to active research and development work. Continued research, development and demonstration are of the utmost importance, and if it turns out that technologies emerge as early as the next planning period that would be appropriate to implement on a commercial basis, the Swedish Transport Administration will work to support earlier implementation, thereby helping to bring about faster development of the Swedish electric road system market”



Back up slides

Electric Road Systems are a global interest



Many interesting ERS concepts

Different perspectives and needs of technology

Elways



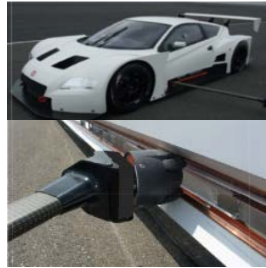
Alstom



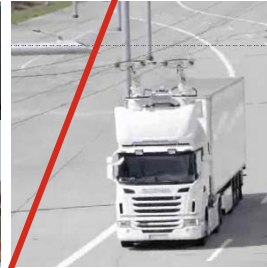
Elonroad



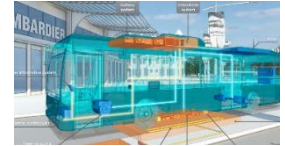
Honda



Siemens



Bombardier



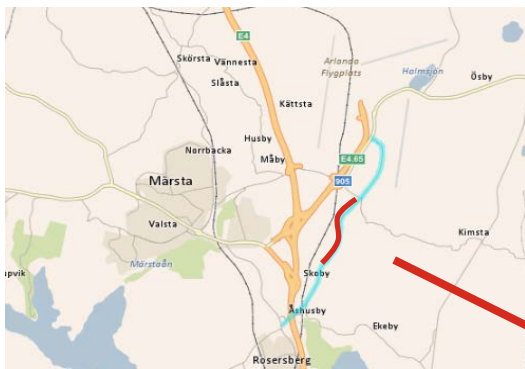
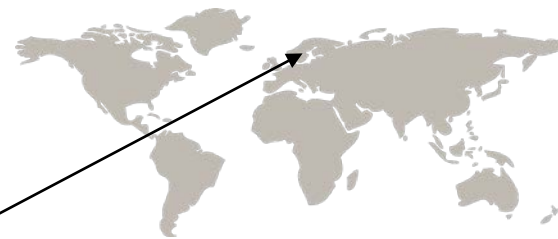
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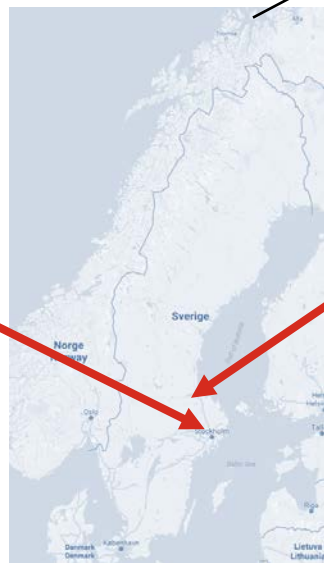
Conductive

Inductive

Two are demonstrated in Sweden



Rosersbergs
Utveckling
AB



Region
Gävleborg