

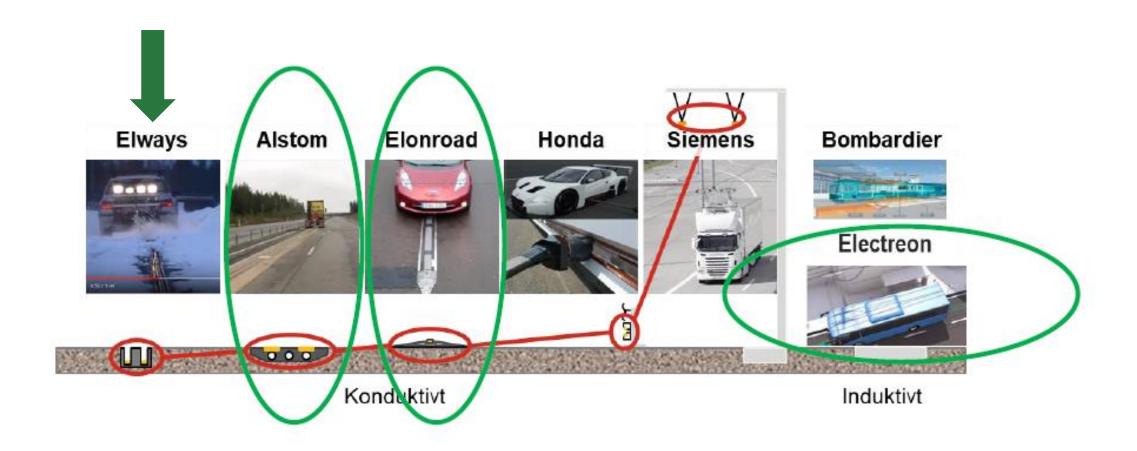
Hans Säll

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Compeeting ERS technologies



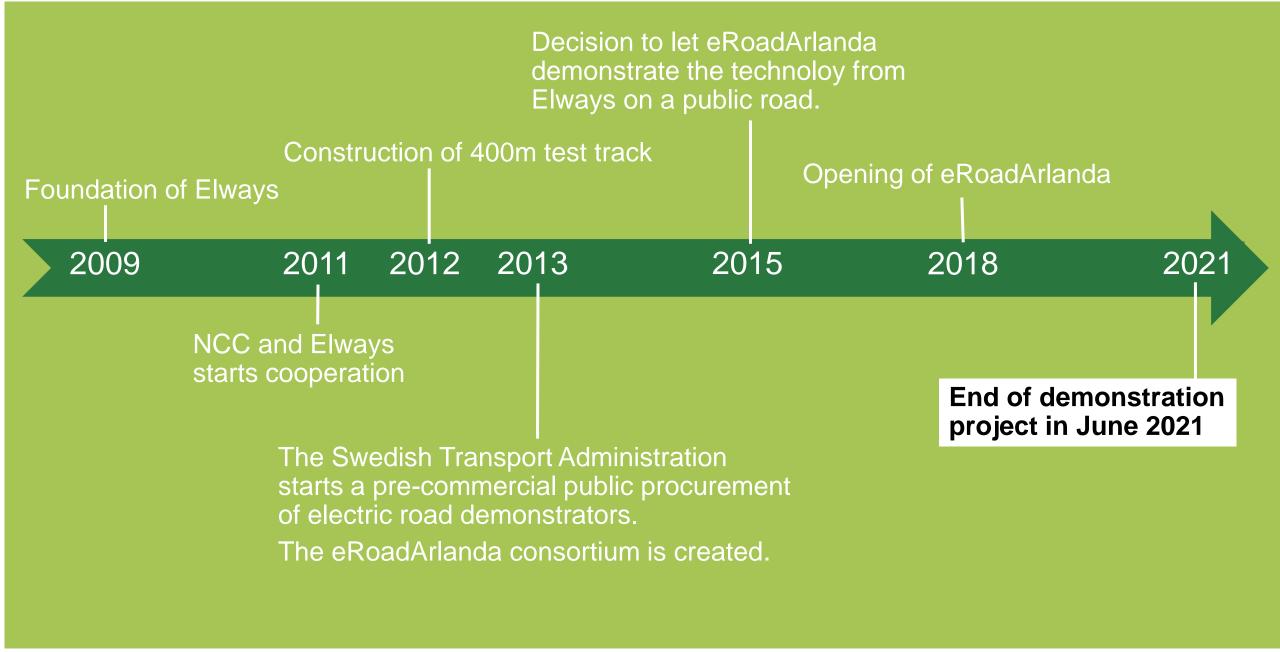




Demonstrators for electric roads

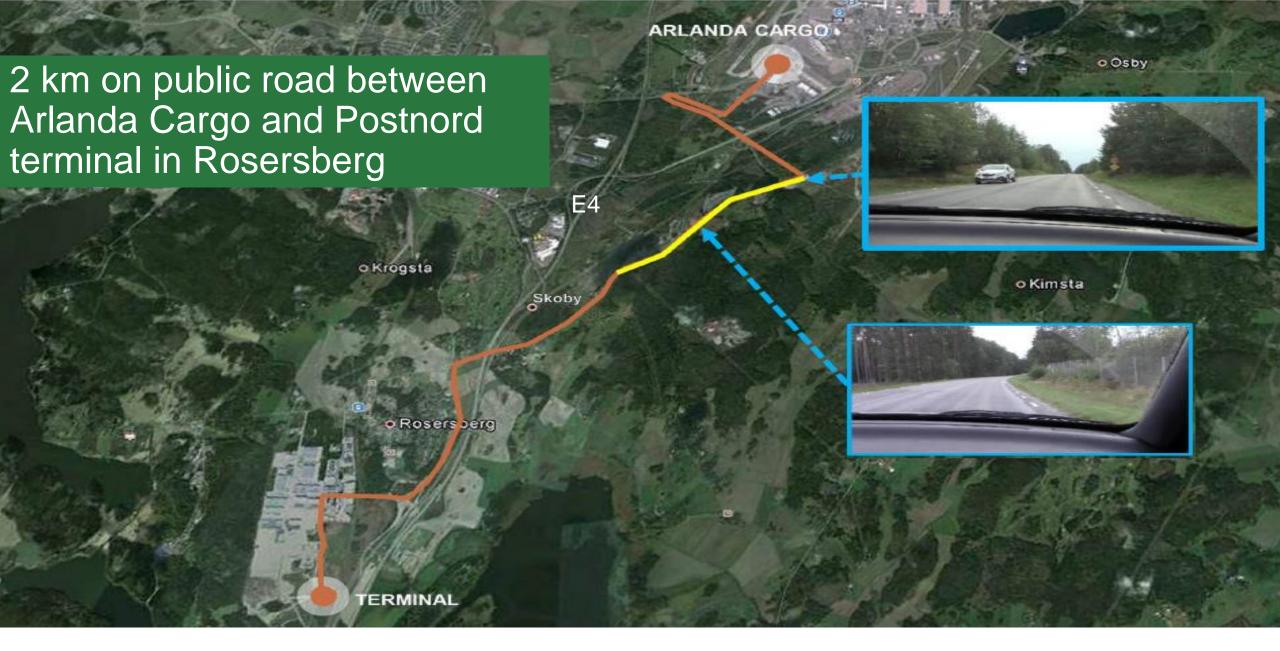












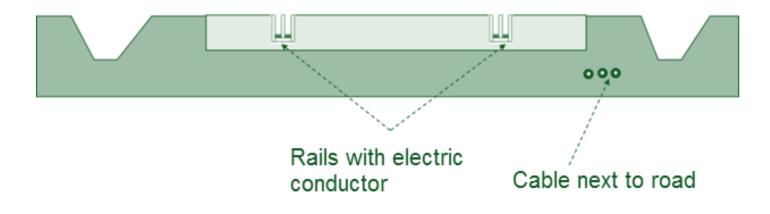




Technology from Elways at eRoadArlanda

800 V 200 kW

No electricity on road surface!



Electrified in sections of 50m, but only when an authorized vehicle passes.



Civil works in the road - Milling







Civil works in the road - Mounting







Civil works in the road - Sealing







- Converted within the project
- First 100% electrified truck allowed to go on public road in Sweden
- Range on battery only: 80 km
- Total weight: 18 tons
- Load: 6.5 tons







100 % automatic eRoad-connector







How to handle snow, ice, water, gravel, leaves etc?

- 1. The design of the eRoad-connector
- 2. Built in heating cable
- 3. Drainage every 50 m
- 4. Ordinary plowing equipment can be used
- 5. Modified standard maintenance equipment

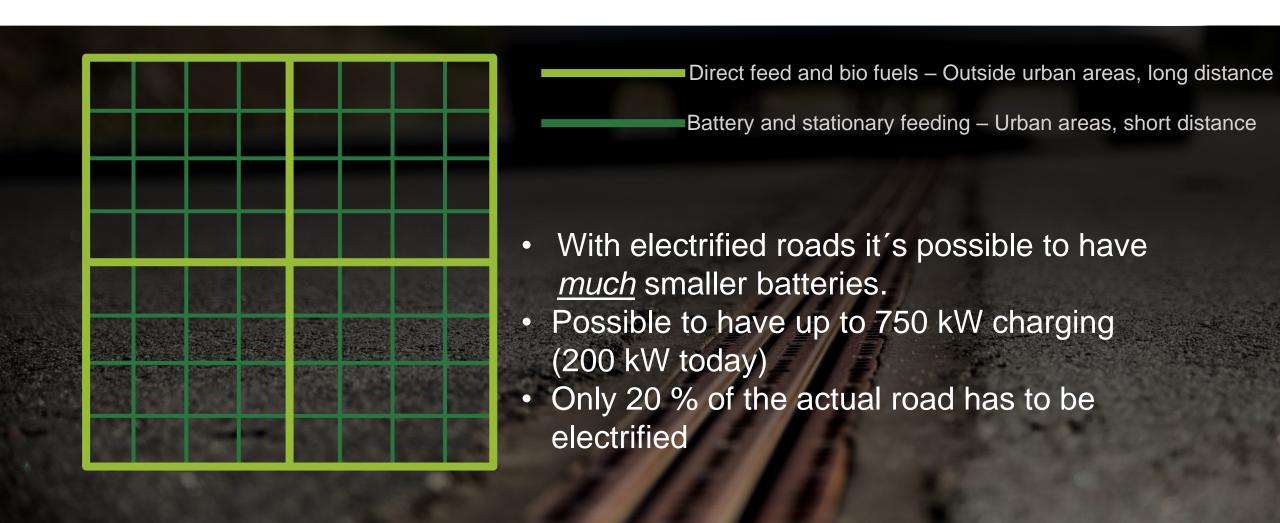








We need smaller batteries - not bigger

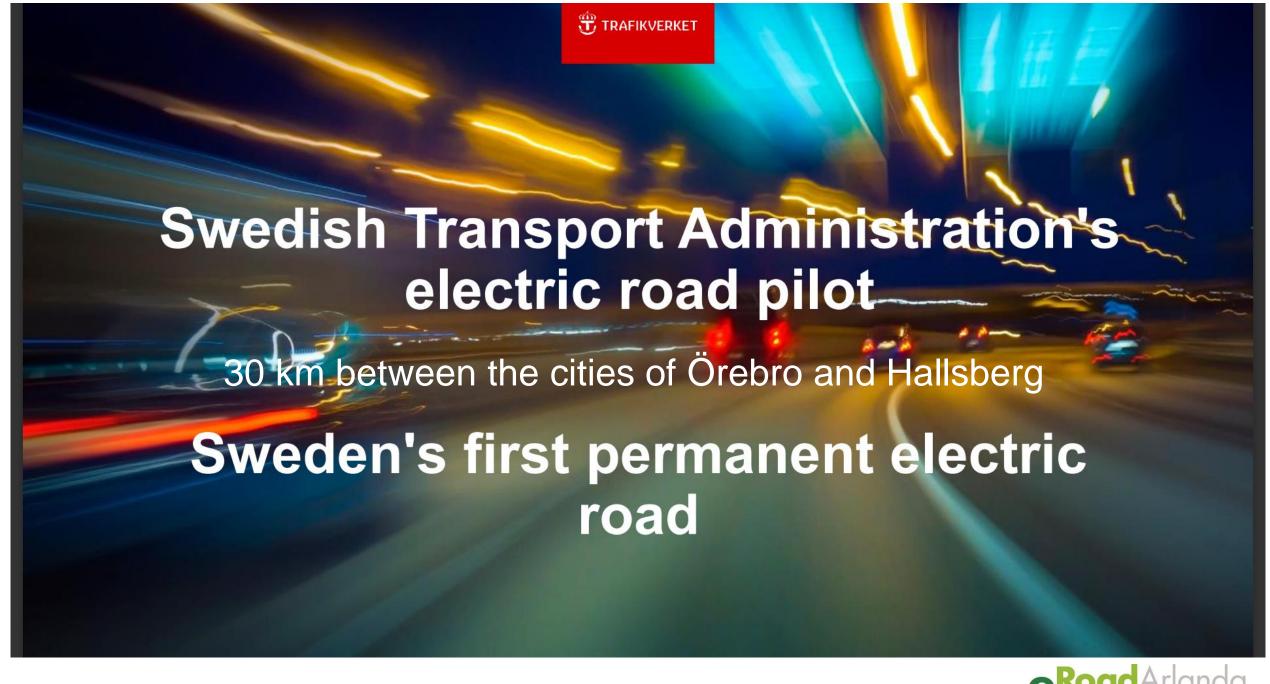




•	Bicycle road	0,2 MEUR/KM	
	Eelectrified road	< 1 MEUR/km	 Sweden has about 500 000 km of roadways. Electrifying 5 000 km of the main roads can reduce CO²-emissions from the total heavy vehicles by 50%.
•	Highway	> 3 MEUR/km	
	City street	> 4 MEUR/km	
•	City tram	> 60 MEUR/km	
·	Subway	> 100 MEUR/km	
		100	









Establishment of road plan

What: Two road plans for the construction of one (1) electric road

Technology choices and production

What: Procurement of consultants for tender documents and construction site follow up and procurement of contractor for the supply of technology and production.

Contract **Tender documents** Contract Finished Final road plan ready consultant contractor production 2022/2023 2024/2025 2025/2026 2020/2021 2021/2022 2023/2024 **Functions** Choice of **Procurement of** Completed road Start Completed and production project contractor plan route requirements



Thank's for listening!



https://bransch.trafikverket.se/en/startpage/projects/Road-construction-projects/electric-road-e20-hallsbergorebro/

https://www.ncc.com/our-offer/infrastructure/eroads-charging-infrastructure/

https://evias.se/en/