Briefing about Flackarp-Arlöv, four tracks







Agenda

09:30-10:00	Coffee/tea is served
10:00-10:10	Welcome
10:10-10:30	Presentation of the Swedish Transport Administration (Trafikverket) and how to become a supplier to the Swedish Transport Administration
10:30-10:50	Information about what is happening at the moment
10:50-11:00	Short break
11:00-12:15	Technical presentation of the project
12:15-12:30	Questions
12:30-13:15	Lunch
13:30-15:45	Site visit
15:45-16:00	Closing



Practical matters

- Lunch
- Emergency exits
- Questions

Participants from Trafikverket

Jens-Peter Eisenschmidt, Senior Project Manager

Camilla Ahston, LL.B. International Strategist

Patrik Dymling, Project Manager Performance Management

Thomas Hallgren, Project Manager Railway

Marie Minör, Project Manager Civil Works

Kristofer Söderberg, Project Manager Civil Works- Construction

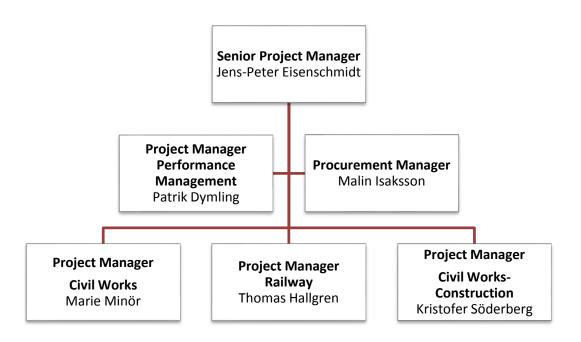
Petter Holmqvist, Project Coordinator Civil Works - Construction

Örjan Berg, Communications

Malin Isaksson, Procurement Manager



The organization of our project



Camilla Ahston

- The Swedish Transport Administration (Trafikverket)
- How to become a supplier

Skåne & Öresund Region

	Skarie	1.3 111111011
•	Öresund Region	3.9 million
	(Skåne+Zealand)	

Major cities:

 Copenhagen
 Malmö
 Helsingborg
 Lund
 Kristianstad

Ckåna

1.2 million

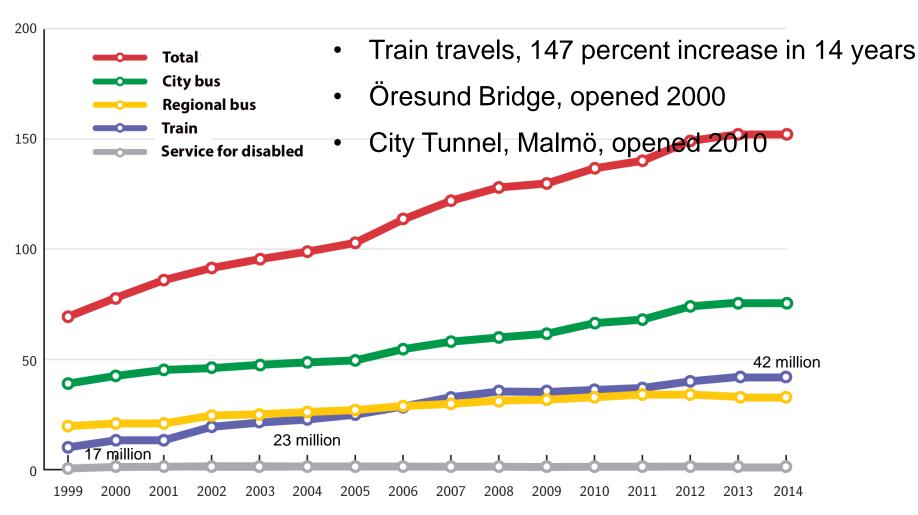
Helsingborg

Kristianstad

Copenhagen

Malmö

Commuters in Skåne

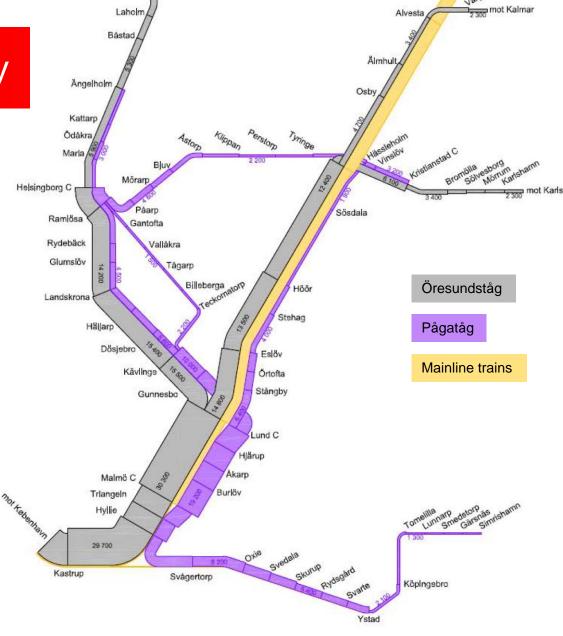


^{*} No. of travels. Source: Skånetrafiken (publicly financed public transports)



Train travels per day

December, 2013 Malmö-Lund 55 000 travels





What

- Expansion from two to four tracks, 8 kilometres
- Three new stations in Hjärup, Åkarp and Arlöv
- Total budget approx. 400 M EUR (at 2015 price levels)



Why

- Higher capacity on the railway
- Reduce noise pollution
- Reduce traffic disturbances and congestions
- Reduce the railway barrier effect





The film about Flackarp-Arlöv, four tracks. https://www.youtube.com/watch?v=K3nfuNnihhw



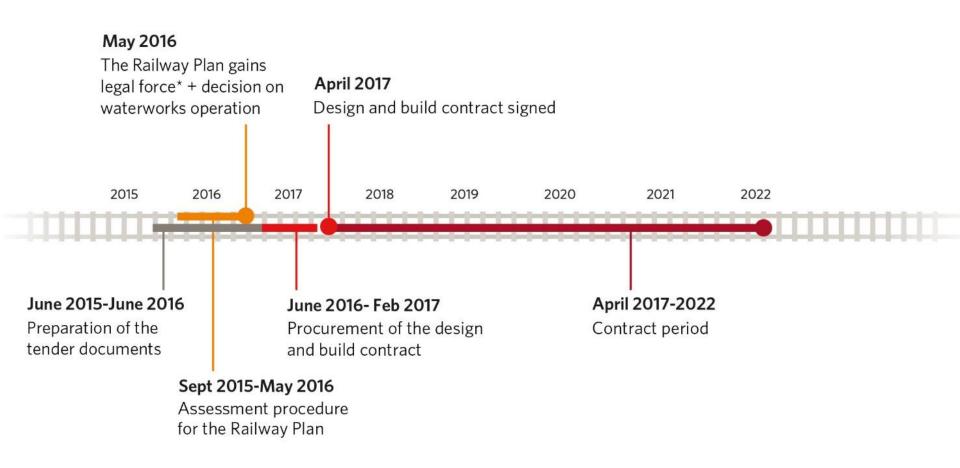
Challenges

Soil – about 1.2 million m³ surplus

Noise – during the construction time and completion

Traffic – rail- and road traffic running during the entire construction period

Time schedule



^{*} An appeal against the railway plan can result in a delay of up to one year.



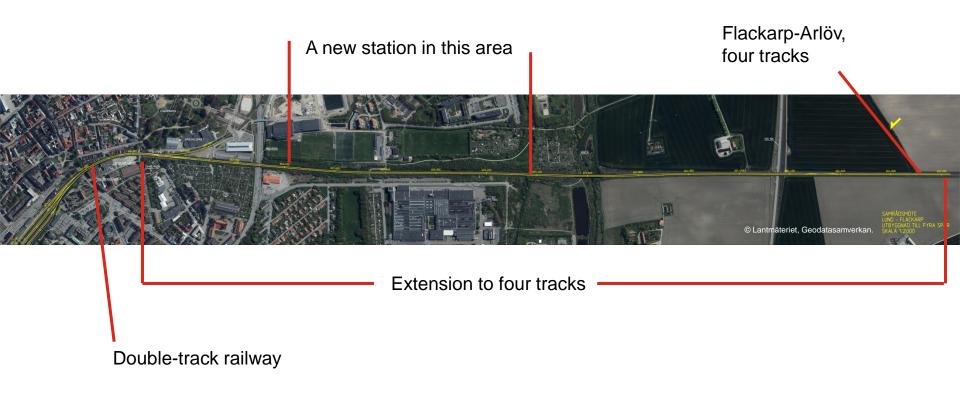
Business proposal

- One Design and Build contract for Flackarp-Arlöv
- Payment form: Not decided
- Tender period: 8 months
- Contract: April 2017
- Contract period: 2017-2022





Lund-Flackarp, four tracks





Railway - Conditions

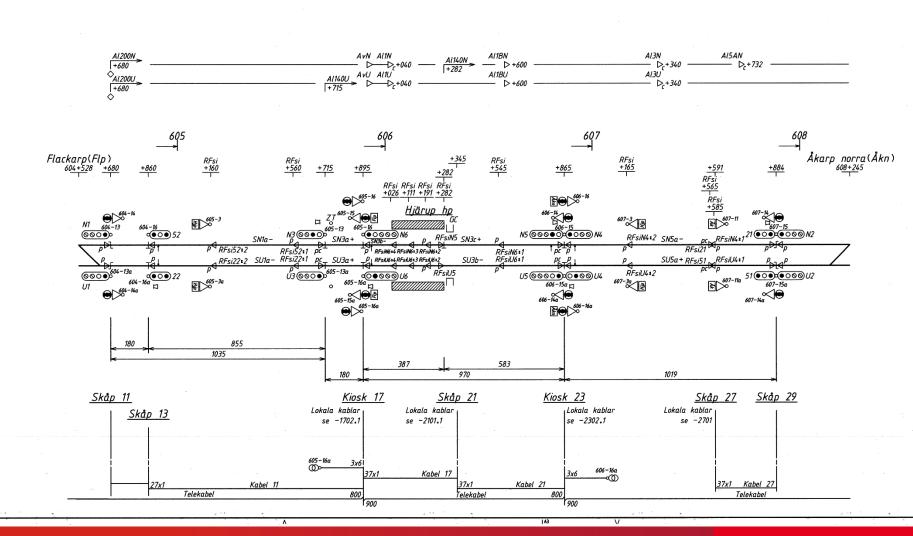
- Railway specific material has to be bought from TRV Materialservice
- Side contractor Bombardier Transportation signaling system
 - Supplier of signaling interlocking
 - Design software for interlocking
- Coordinated by the main contractor
- Telecom carried out by internal department TRV-IT
 - Design all telecom related technique
 - Install all telecom equipment
- Coordinated by the main contractor

Railway - Conditions

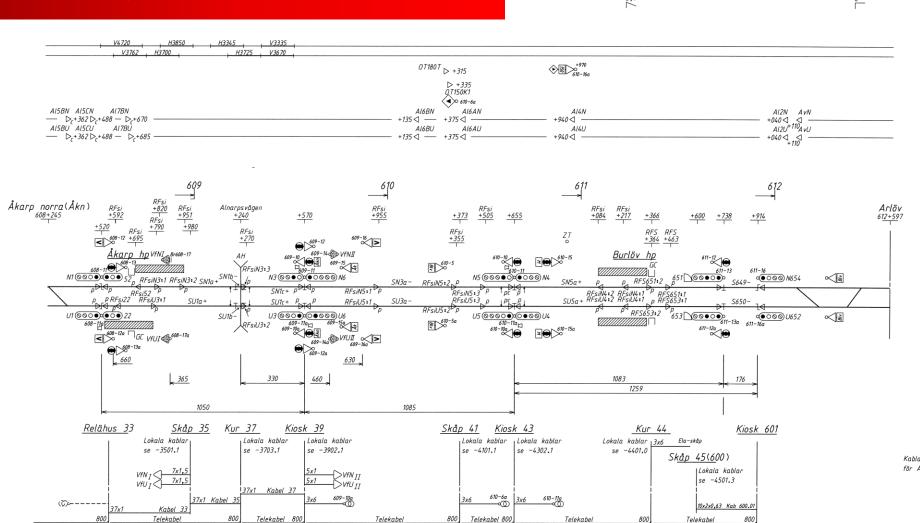
- Track approx 50 km
- Switches approx 45
- Catenery approx 60 km
- ERTMS level 2 ATC
- Permanent signaling interlocking Bombardier Ebilock 950
- Temporary signaling plant relay based
- New signals approx 150 if ATC

Railway, Flackarp-Åkarp N



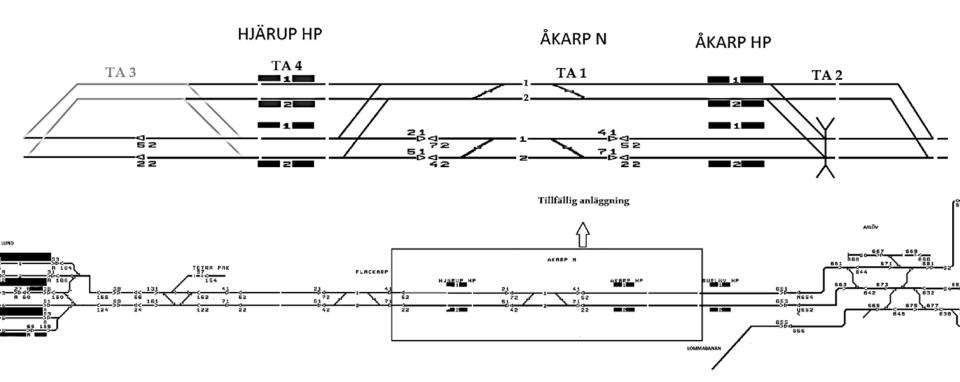


Railway, Åkarp N-Arlöv

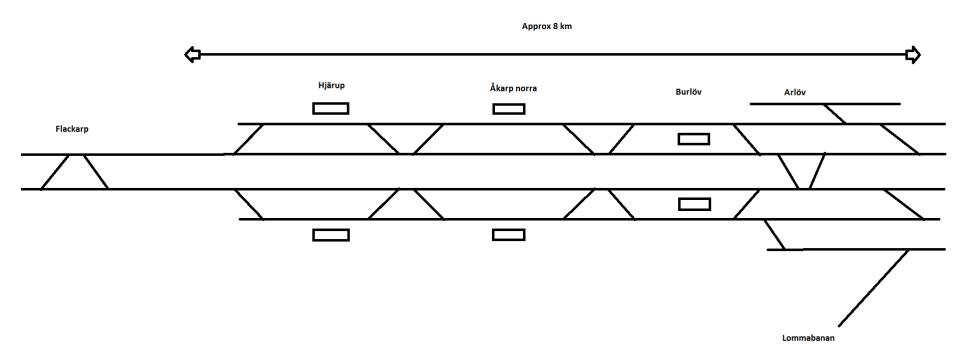


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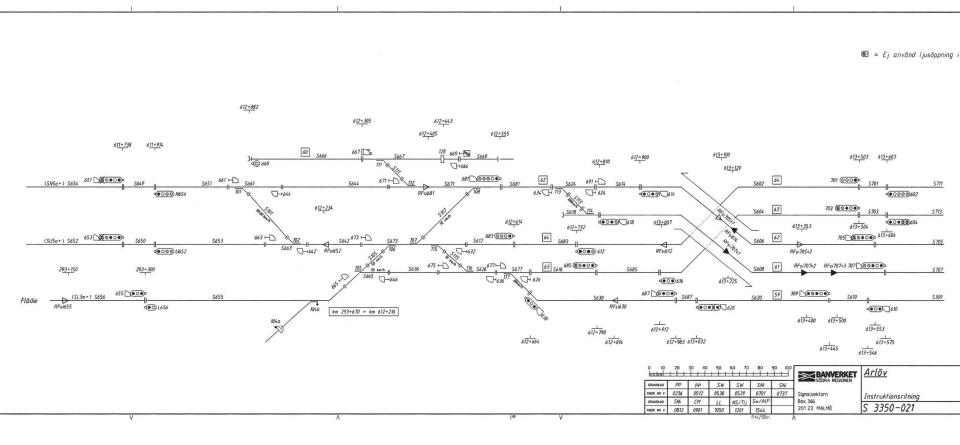
Railway – Temporary tracks



Railway - Tracks, final design



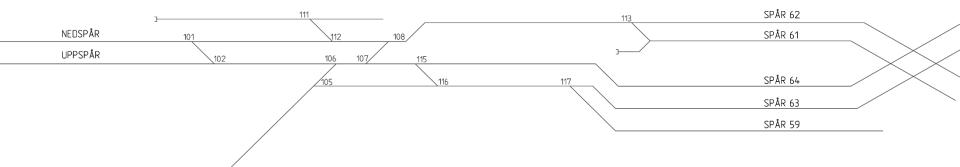
Railway – Arlöv Station



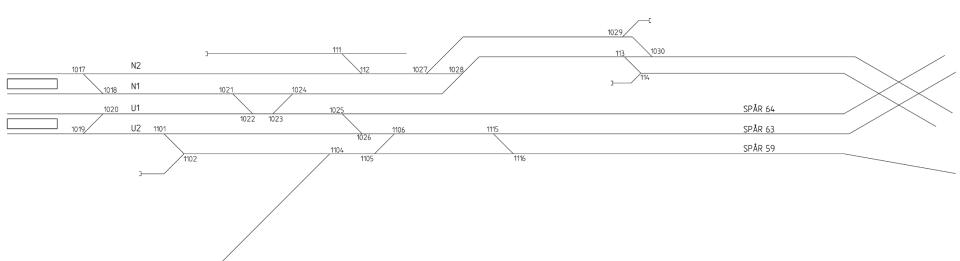
Railway – Arlöv Station

- 400-450 trains per day
- One of the most busiest tracks in Sweden
- Highly sensitive for disturbance
- Only way to the continent from south of Sweden
- Lommabanan important bypass path
- Right/left change between Sweden and Denmark
- Approx 20 new switches
- Approx 5 000m catenery
- Approx 40 new signals
- Signaling interlocking Bombardier Ebilock 950

Railway – Excisting tracks



Railway – Final, Arlöv



Railway plan & Civil works

Marie Minör, Project Manager Civil Works

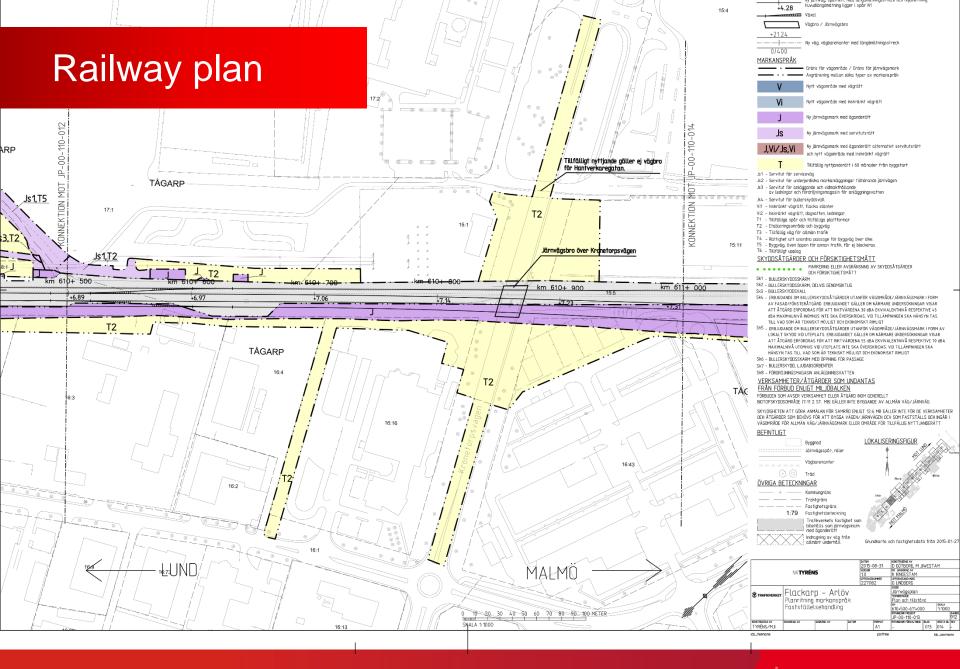
Kristofer Söderberg, Project Manager Civil Works - Construction

Petter Holmqvist, Project Coordinator Civil Works - Construction

Åkarp





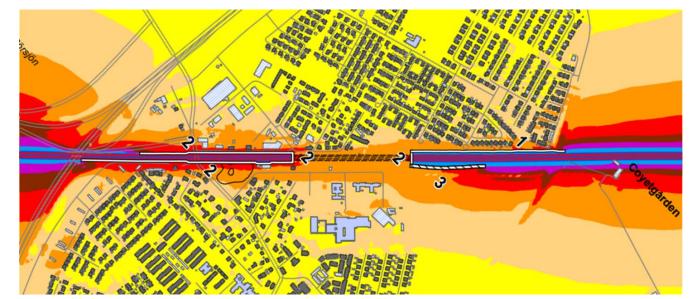


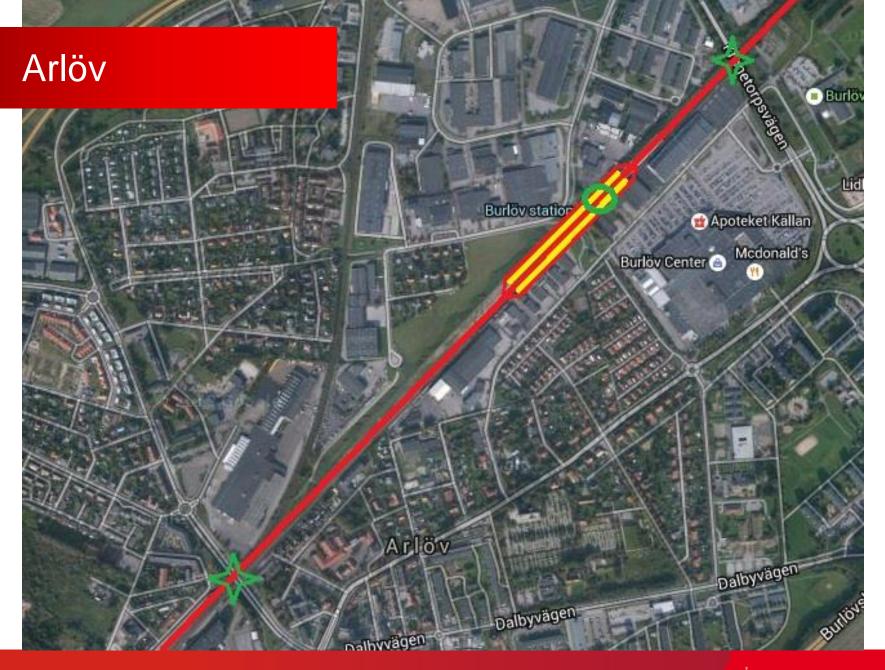
Noise pollution

Åkarp today:



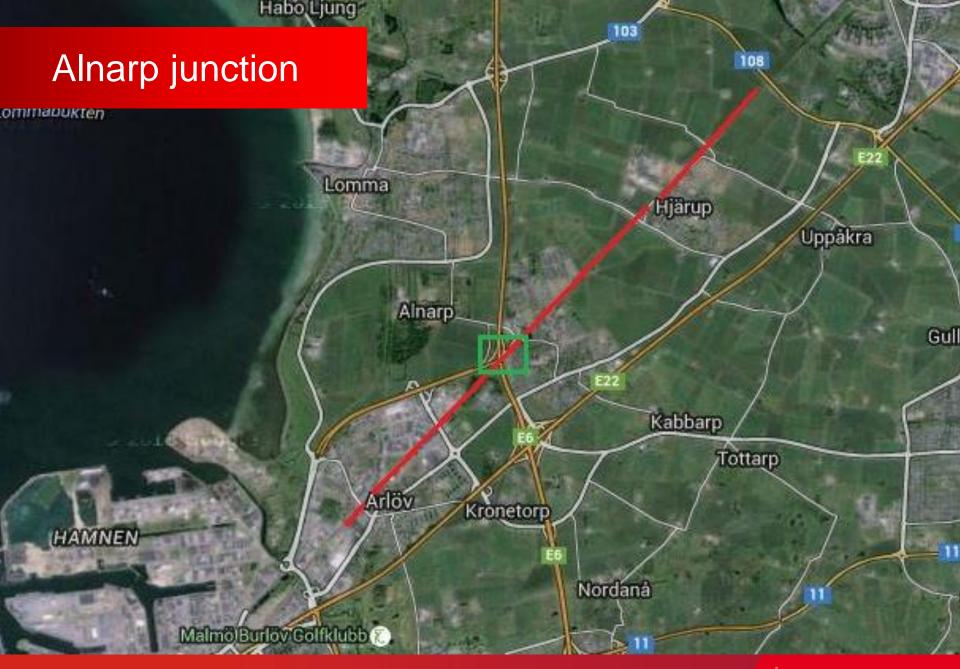
Åkarp after:





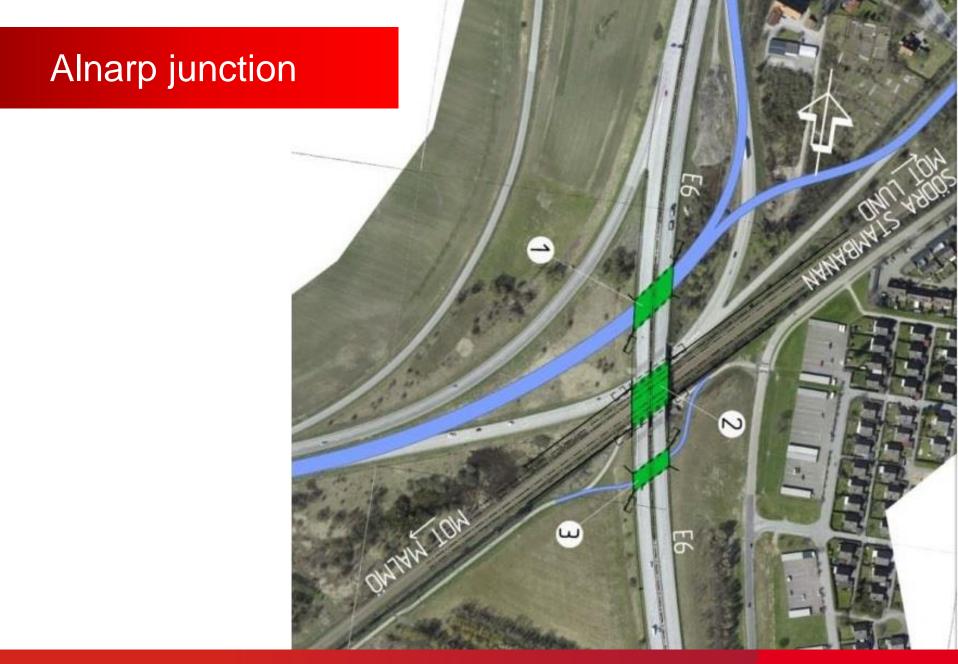






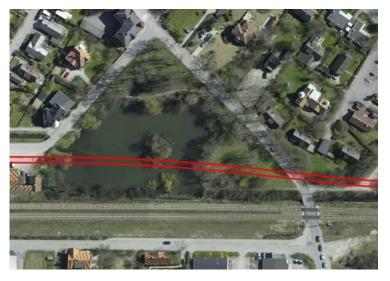


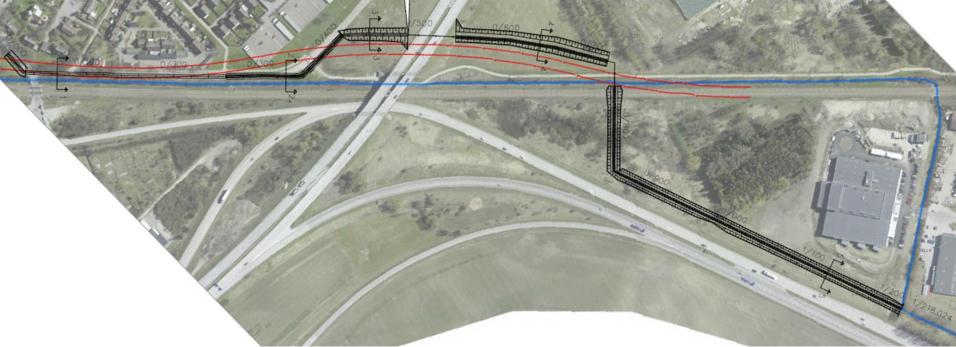


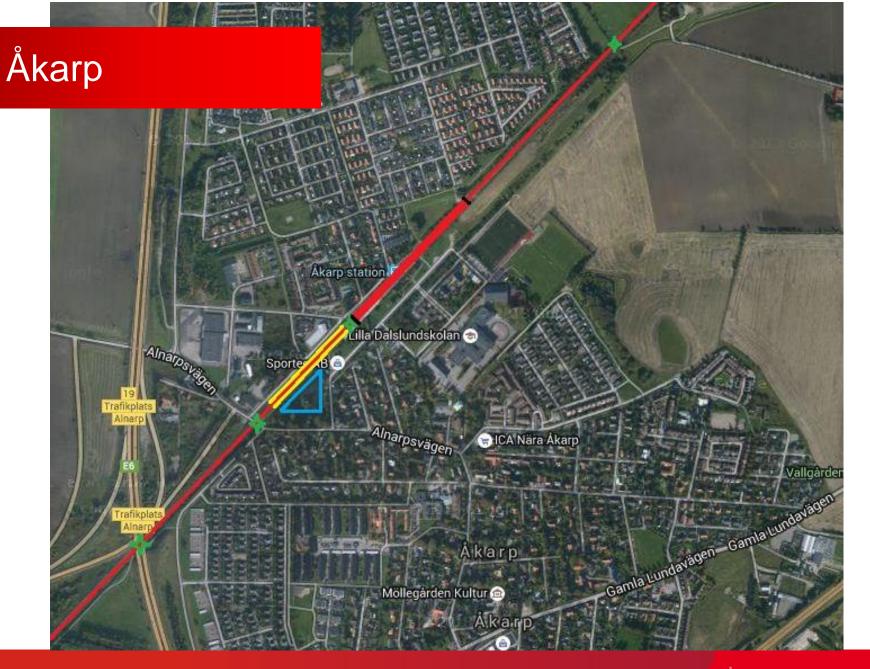




Alnarpsån







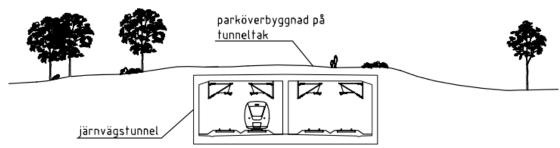




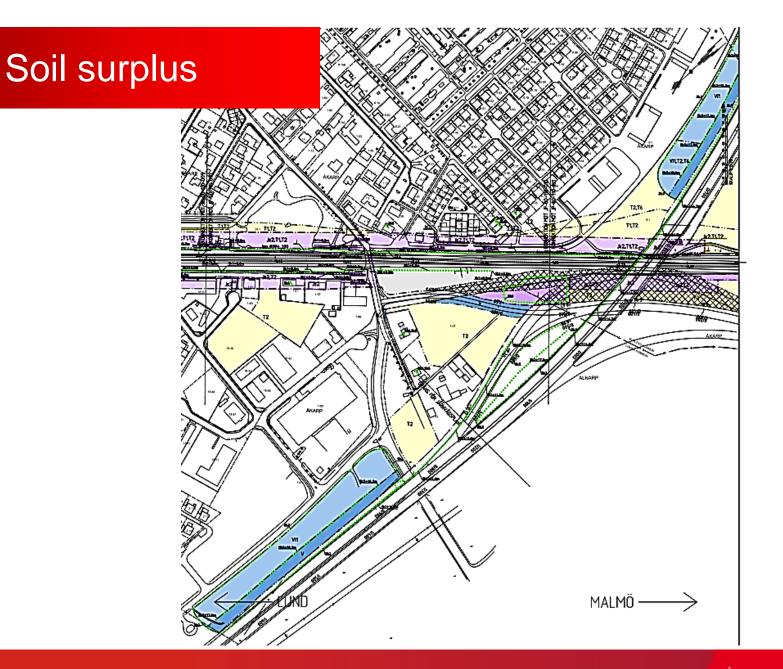




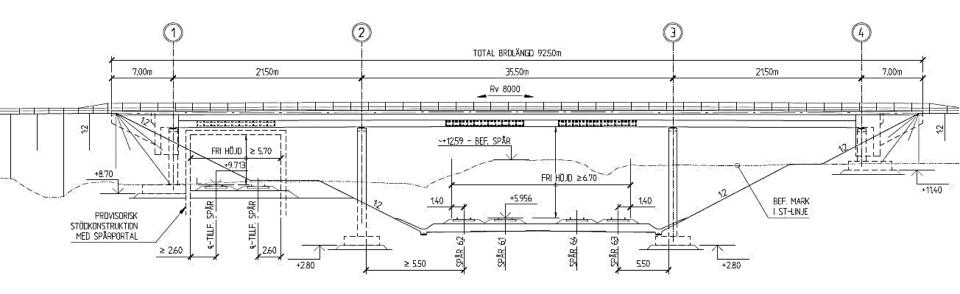
Åkarp - Tunnel







Åkarp, bridge for Gränsvägen



Hjärup





Hjärup





Hjärup





Collaborative business relationship

Patrik Dymling, Project Manager Performance Management

Collaborative business relationship

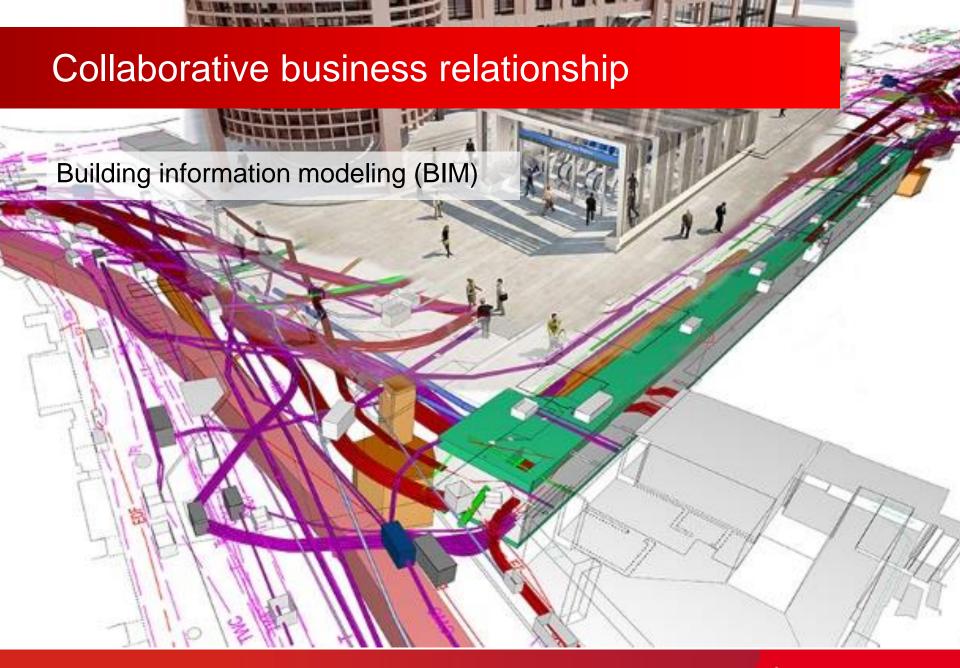


Collaborative business relationship





Collaborative business relationship Risk management







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