

The Swedish Transport Administration's successful work in removing barriers



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Railway

14,200 km of track

535 stations

10,600 switches and crossings

4,100 bridges

165 tunnels

- Transport system planning for roads, railways, shipping and aviation
- Construction, operation and maintenance of State roads and railways
- Procuring inter-regional public transport
- Shipping aid
- Civil defence transportation sector



Road

98,500 km State roads

16,600 bridges

30 tunnels

2,400 road safety cameras

775
weather stations



- Approximately 30% of road-water crossings are assessed as barriers. ~ 20 000 crossings in the two northernmost counties.
- Measures with "earmarked" financial resourses started around 1995. Today approximately 90 000 000 € in total.
- Old environmental "sins and mistakes" in focus.



Noise and vibrations



Biodiversity and cultural values



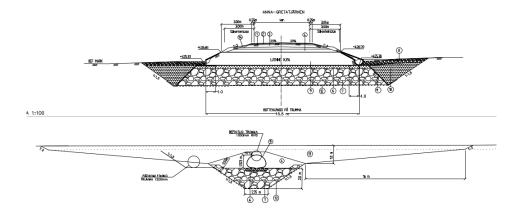
Surface- and groundwater

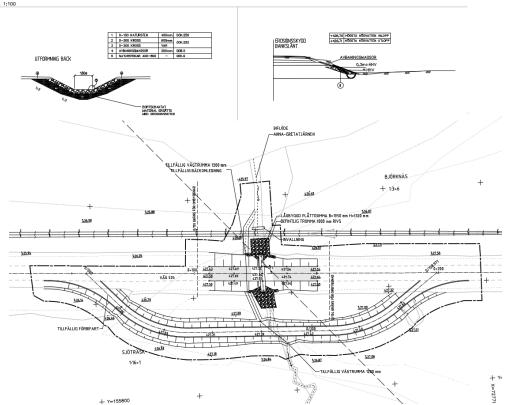


Working process..

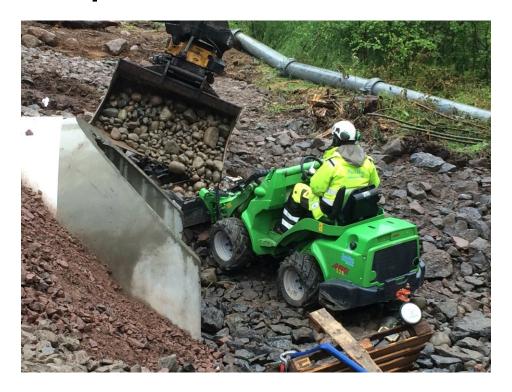








- Public procurement of consultants
 (designs/drawings, permits, technical and ecological requirements...).
- Public procurement of contractors.









- Ensure that the construction and maintenance of infrastructure does not result in new barriers.
- In our procured road and railway projects, we must ensure that ecological aspects are taken care of.
- The EU Water frame Directive implemented in the Swedish legislation, (the Environmental code).
- Internal technical and ecological requirements.
- Ecological competence is necessary in planning, designing and construction.



Examples..



Open bridge

Arch bridge











Raise of water-level with weirs/natural material



Examples.. Arch culvert divided into sections with concrete beams to prevent material from being washed away.









Cooperation and joint projects bring success...





Life+ Nature 2011-2016

Trafikverket, Länsstyrelsen Norrbotten, Länsstyrelsen Västerbotten, Havs och Vattenmyndigheten, Skogsstyrelsen, SCA, Sveaskog, Holmen skog, Swedish agency for marine and water management



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Trafikverket, Länsstyrelsen Västerbotten, Länsstyrelsen Västernorrland, Länsstyrelsen Jämtland, Havs och Vattenmyndigheten, Karlstad Univ., Munchen Univ., Strömsunds kommun, Ragunda kommun, Åre kommun SCA, Sveaskog, Holmen skog, Billerudkorsnäs, Sportfiskarna



Thank you for listening