

SWEDISH ROCK BLASTING ASSOCIATION



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SWEDISH ROCK BLASTING ASSOCIATION

BEF – Bergsprängnings Entreprenörernas Förening, established in 2002.

We currently have 95 member companies spread throughout the country. Our member companies perform approx. 85% (blasted volume) of surface blasting in Sweden.

The association also has a section for actively supporting partners, i.e. companies with a significant role in the rock blasting industry. At the moment we have approx. 50 actively supporting partner

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SWEDISH ROCK BLASTING ASSOCIATION

Our primary task is to support our members in their daily work. We have a strong focus on work environment and safety-security.

We monitor and influence relevant authorities in matters of legislation and regulations that affect our industry

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ONGOING AND UPCOMING LARGE ROCK PROJECTS IN SWEDEN

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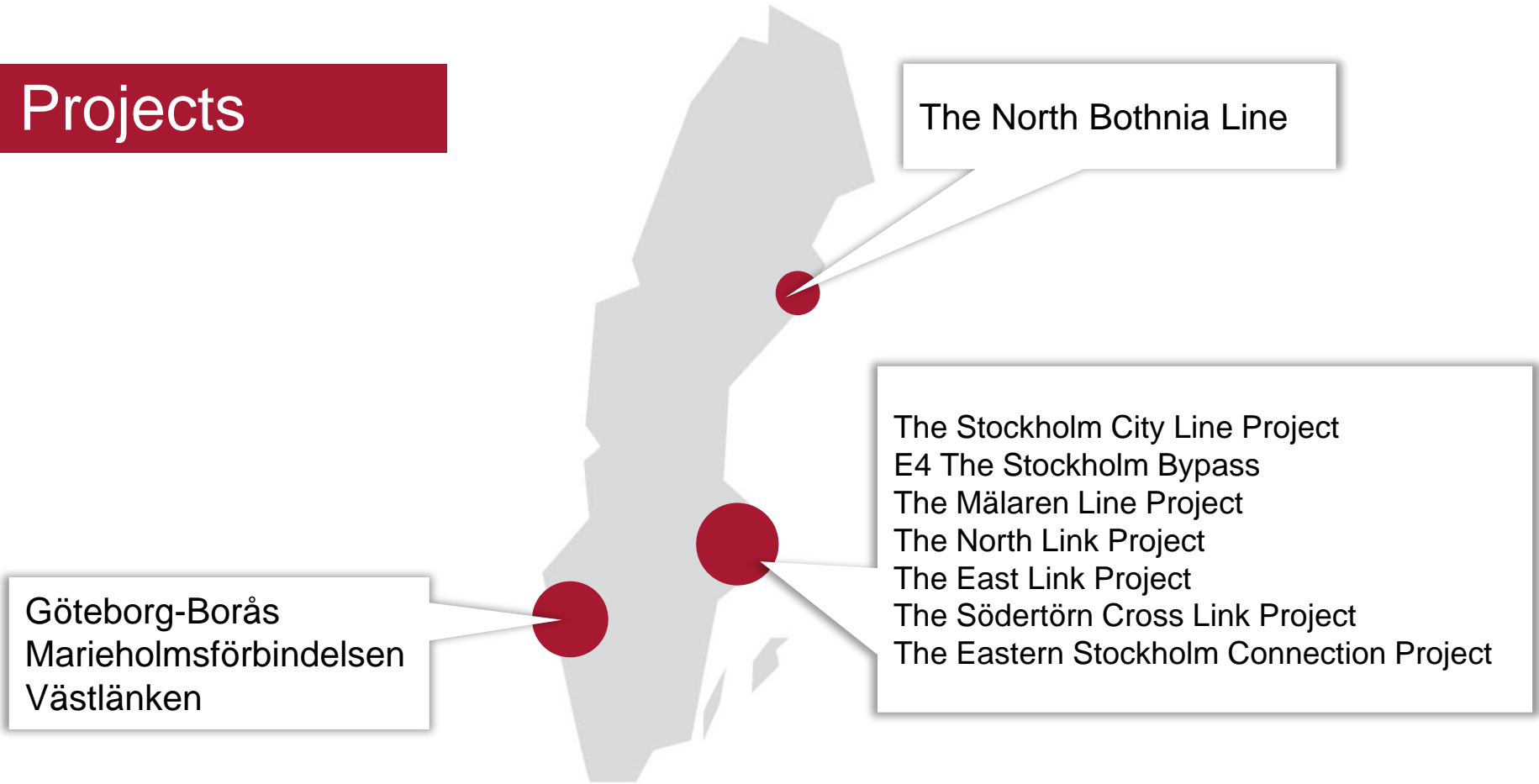
SWEDISH TRANSPORT ADMINISTRATION



TRAFIKVERKET



Projects



The North Bothnia Line

Göteborg-Borås
Mariefholmsförbindelsen
Västlänken

The Stockholm City Line Project
E4 The Stockholm Bypass
The Mälaren Line Project
The North Link Project
The East Link Project
The Södertörn Cross Link Project
The Eastern Stockholm Connection Project

The West Link Project



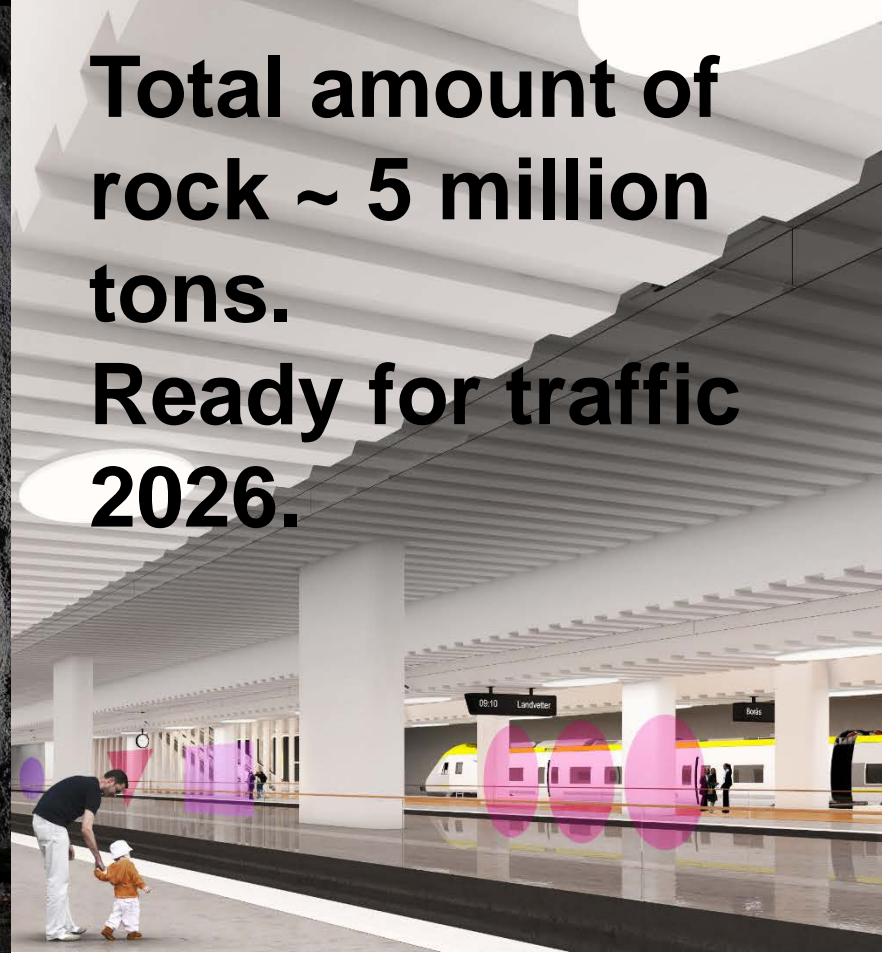
The West Link Project



An approximately 8 km long railway for commuter and regional trains, just over 6 km in tunnels underneath Gothenburg.



**Total amount of
rock ~ 5 million
tons.
Ready for traffic
2026.**



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The West Link Project

2/3 of the tunnel is in rock.

1/3 of the tunnel is in a special kind of clay called "Gothenbourg clay" which is looser and has lower strength than many other soils.

Special methods to manage groundwater.





The E4 Stockholm Bypass Project

21 km new road west of Stockholm.
Drilling and blasting 20 milj. tons of rock.
Started in 2016 and will be finished in
2030.





The E4 Stockholm Bypass Project

18 km in tunnels. One of the world's longest urban tunnels.
A total of almost 60 km of tunnels (cross tunnels, tunnel tubes and ramps).





The E4 Stockholm Bypass Project

Complicated rock blasting close to the subway, cultural-historical buildings, housing and other buildings.



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The North Bothnia Line





The North Bothnia Line

270 km coastal
railway between
Umeå and Luleå



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The North Bothnia Line

- 250 new bridges.
- 550 km new roads.
- ~ 14 million tons of rock.
- Open to traffic beyond 2030
- Cost: 3,7 billion €.





The Stockholm Metro Expansion

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The Stockholm Metro Expansion



30 km of tracks

18 stations

15 milj. tons of rock.

180 000 more people
will be able to travel the Metro
every day



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The Stockholm Metro Expansion

Currently
being built





The Stockholm Metro Expansion



- The Blue line to Barkarby In service in 2026
- The Yellow line to Arenastaden In service in 2028
- The Blue line to Söderort and Nacka In service in 2030
- The Högdalen depot expansion Operational in 2025
- Metro to Älvsjö In service in 2034





UPCOMING PROJECTS

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Swedish Government



81 000 000 000 €

The biggest investment in
infrastructure in modern
times, the next 10 years

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National plan for the transport infrastructure in Sweden.



15 billion euros for operation and maintenance of state railways

18 billion euros for the operation and maintenance of government roads

40 billion euros for the development of the transport system.

And

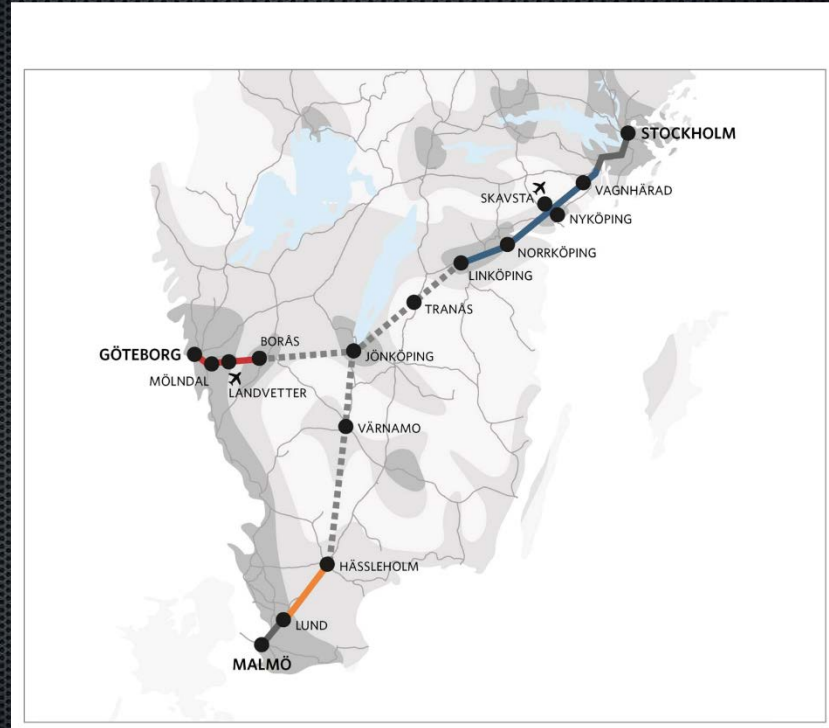
8 billion euros comes from congestion tax, railway fees and co-financing





New high-speed railways

- The East Link project 2024-2034
- The Gothenburg-Borås project 2025-2027
- The Hässleholm-Lund project 2027-2029





And more in addition to the
previous...

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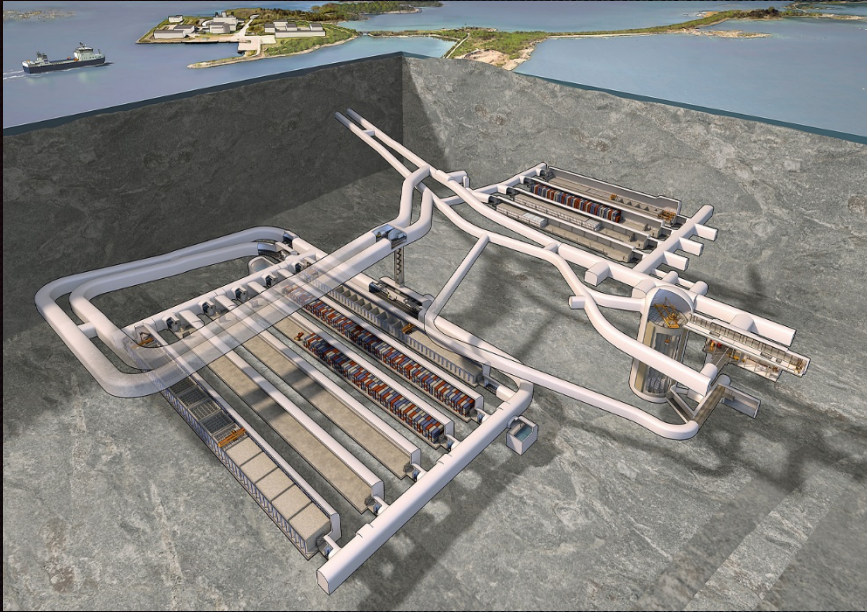
SKB, the Swedish Nuclear Fuel and Waste Management Company, is engaged in one of Sweden's largest environmental protection projects.

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Expansion of capacity for final repository, short-lived radioactive waste



The Project scope contains both the detailed design and construction of:

- Ramp (drill & blast) year 2024-2027
- Repository area (drill & blast) year 2024-2027
- The infrastructure of the repository area year 2027-2030
 - Construction of buildings
 - Installations :
Cables, electric, water pumps, ventilation etc.





Final repository for spent nuclear fuel, long-lived radioactive waste

Facts & Figures

Start of construction 2028,
start of operation 2038, in
operation for 50 years

*Main part of the scope is
paused until legal permits
has been granted.*

Underground facility

- Capacity to store 6000 canisters (12 000 tonnes of spent fuel)
- Storage depth ~ -500 meters
- Transport and deposit tunnels of 60 km total length
- Ramp 5km length (10% slope)
- the repository will be three to four square kilometers in size
- More than 6 million tons of rock





Investments and jobs

- The final repository project will bring investments of around 1,8 billion € and will create about 1,500 jobs.

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Good times

In summary, recent decades we have had a very high occupation regarding working in rock. The future also looks very good. In addition to the large planned projects, more housing, schools, hospitals and roads are also needed.







But, we also have
some problems...





- The war in Ukraine affect us all  
- High inflation, rising interest rates
- Rising energy costs
- Lack of goods, raw materials, transports etc.
- New government after the election in September

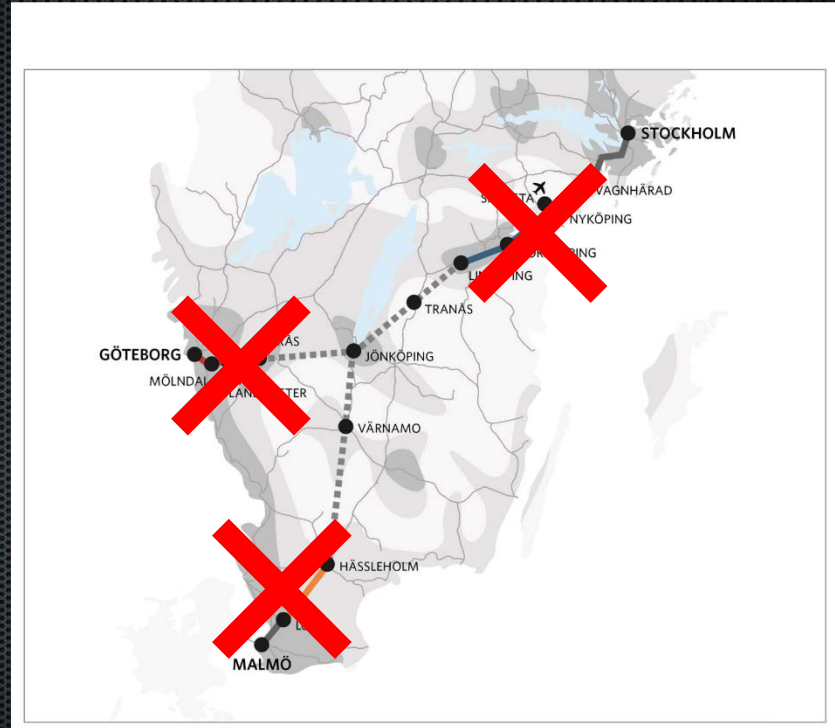




No new high-speed railways?

Last week, the incoming government announced that they do not want to build high-speed railways.

But the last word has not yet been said...





And then we have...

The cement crisis on Gotland!



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CEMENTA
HEIDELBERGCEMENT Group

The Land and Environmental Court rejected the company CEMENTA's application for continued mining on July 6, 2021

The company has a temporary permit until the end of 2022.



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Production on Gotland accounts for approximately 75 percent of the cement used in Sweden.

200,000 – 400,000 jobs are at risk as a direct consequence!!





The future of cement production
on Gotland is highly risky.

A decision is expected later this
autumn.





A vision for the future...

The large projects, especially in Stockholm, provide a surplus of stone. Stone that could be used to improve the environment in the city, both on land and in the water.





A vision for the future...

Instead of today's rather boring quays, it would be possible to create...



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A vision for the future...

Green areas on land and reef that benefits fish and the underwater environment



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A vision for the future...

And, maybe a beach in the middle
of the city



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**Thanks for
your attention!**