DRIVERS BEHIND INDUSTRIALISATION IN NORTHERN SWEDEN: PAST AND PRESENT PERSPECTIVES

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- Projected investments around EUR 100-150 billion (ca 20% of Swedish GDP in 2021);
- Projected population growth on 100 000 for direct and indirect jobs (ca 20% increase);
 - *An* extreme demand shock on labour;
 - Pressure on incumbent firms and public sector (care, education etc);
- Electricity production in Norrbotten (alone) from 8 TWh (2019) to approximately 107 TWh 2050.





RESEARCH PROGRAMME 2023-2029

A PROMISED LAND? DRIVERS, CHALLENGES AND OPPORTUNITIES RELATED TO THE (GREEN) INDUSTRIALISATION OF NORTHERN SWEDEN















DRIVERS BEHIND THE CURRENT GREEN INVESTMENTS?

Climate Policy

- Paris Agreement
- o EU-ETS
- o EU Green Deal
- National climate policies
- Global Competition
 - Race in global technological leadership. China, EU, United States?

- Values driven leadership?
 - What are the driving purposes behind the investments?



Geoffrey Jones

Author of Profits and Sustainability

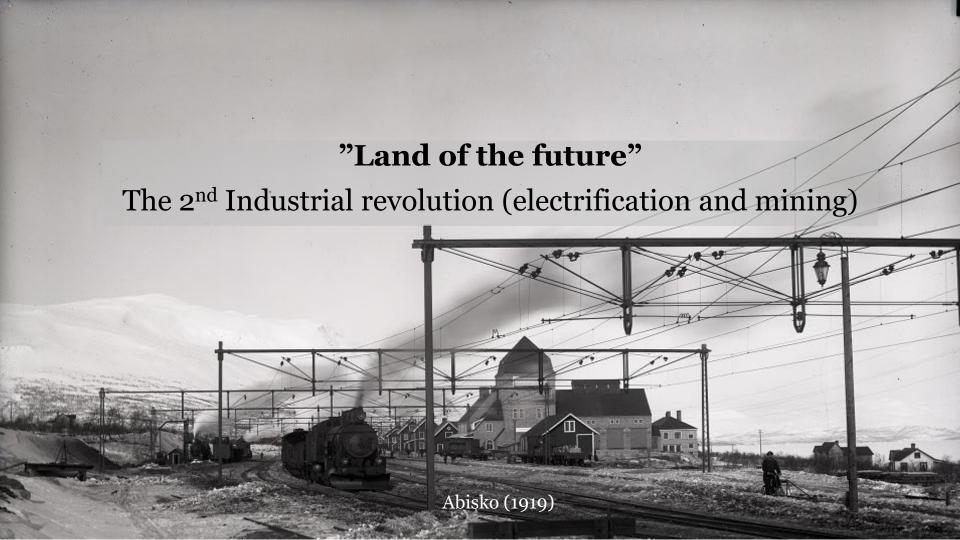
Harvard University Press (2023)

really trying to solve a big problem and that is the global problem of global warming, and the increasing amount of carbons in the atmosphere."

"The reason why we started the company is we're

Source: Interview in the ABB Decoded Pod November 14, 2022.

Peter Carlsson, founder and CEO of Northvolt



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THRE PERMILIZER

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BOLIDEN - SWEDISH NON-FERROUS MINING COMPANY (ESTABLISHED 1924-)



Boliden mine 1930s and Aitik mine 2000s



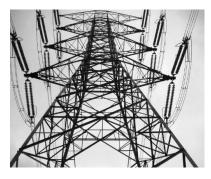
Rönnskärsverken 1940s and 2000s

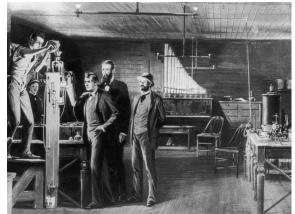


ECONOMIC DRIVERS

Second Industrial Revolution (ca 1880-)

- o Copper!
- Telegraph, electromagnet, internal combustion engine, electricity generation, electricity transmission, components in engines, radiators, batteries, etc.;
- Global demand skyrocketed from the late 1880s.





OSCAR FALKMAN – 1877-1961

- The Boliden ore deposit became internationally "notorious" in the 1920s.
- Strong interests in short-term exploitation;
- Falkman feared overexploitation for quick returns;
- "I [Falkman], "managed to resist these interests and Boliden can today [in 1941] serve as a springboard for further exploration work", as well as:

"creating the conditions for further industrial development" in the region.





Oscar Falkman and Ivar Kreuger 1929

BUSINESS LEADER PHILOSOPHY (FALKMAN)

- Good relations with the *local* community a prerequisite for building a successful and sustainable industry;
 - Good relations to other businesses;
 - Well being (trivsel) of the employees a key;
 - o Build a "model" society

- An industry must give something back to the society in which it operates;
- Corporate profit not an end in itself: profit is only a means for creating something;
- Big concern: what happens to the local community [Boliden] when the mine has been depleted?

FALKMAN'S VIEW ON THE WHAT A LARGE INDUSTRIAL PROJECT BRING TO THE LOCAL COMMUNITY

- Creation of new jobs and new communities;
- Strongly increasing tax revenue;
- Improved infrastructure stimulates entrepreneurial "natives" to start "trucking and bus companies" etc;
- Schools, shops, Salvation Army premises, cinemas and the People's Houses;

- All this "paves the way" for "implanting" other entrepreneurship;
- In the end: "isolation and boredom are broken".



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