

KALLAK

A real asset, and a real opportunity to transform Jokkmokk

A presentation by Copenhagen Economics prepared for Beowulf Mining plc 7 September 2017

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An invitation to potential partners who have a stake in Kallak

KALLAK'S POTENTIAL

Various, independent estimates all indicate real and significant potential for Kallak to create new jobs and generate substantial tax revenues. Currently, Jokkmokk needs more investment, new enterprises and jobs. This is causing people to leave, looking elsewhere for opportunities, resulting in a declining population.

Mining the Kallak North deposit has the potential to provide around 250 direct jobs and SEK 600m in additional tax revenues to the municipality of Jokkmokk over 14 years.

If the mine life is extended with the Kallak South deposit, then SEK 1b in additional tax revenues could be generated over 25 years.

Past experience suggests that a wellengineered plan is essential, so that the local community reaps the benefits of Kallak's potential. Beowulf believes that the case of Kallak and Jokkmokk is no different: the full potential benefits are likely *not* to materialise on their own, but through partnership and collaboration.

UNLOCKING KALLAK'S POTENTIAL

That is why Beowulf invites municipality, commercial partners, regional government, relevant authorities and regulators, landowners, members of the Jokkmokk and Saami communities, and other interested partners, who share an interest in Kallak, to partner and collaborate, to develop and work together towards common goals: establishing the foundations for Kallak's success, and the realisation of a thriving. diversified and sustainable economy for Jokkmokk, with benefits spilling over to Norrbotten and the country.

Kallak can create opportunities, skilled jobs, reduce youth unemployment, harness Swedish innovation in the design and engineering of the project, adopting Sweden's fossil free goal, and revitalise Jokkmokk.

Unlocking Kallak's full potential, means that everyone with a stake in the project, needs to get involved, contribute, so that synergies between partners can be maximised. We can then get more out of the project.

As steward of the asset, Beowulf is committed to facilitate the processes necessary to articulate the goals for each partner, and to drive the partnerships towards achieving the goals.

This is Beowulf's invitation for all partners to come together, to unlock Kallak's potential.

BEOWULF'S PHILOSOPHY

Beowulf's mission statements include becoming a local partner and delivering responsible development. Beowulf will facilitate the development of a modern and sustainable mining operation, but believes partners have a role to play in maximising social gains, and ensuring Jokkmokk and the region have a bright future. The role of Beowulf is only one part in the 'Big Picture' positive impact that Kallak will make.

The Company has already shown it's commitment to the project, investing over SEK 72m, building trust locally, and nascent partnerships. The Company looks at the full life cycle of the mining project, with the goal being a thriving, diversified and sustainable economy for the people of Jokkmokk.

In this summary presentation, with the support of Copenhagen Economics, Beowulf has made the effort to outline concrete suggestions for partnerships, processes and the benefits of real collaboration: structured processes with transparent goals.

Kurt Budge, CEO of Beowulf Mining Plc.

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What is Kallak?

A REAL ASSET...

Kallak is a quality magnetite iron ore deposit located in Jokkmokk Municipality, Norbotten, northern Sweden. The project is being developed by Jokkmokk Iron Mines AB ("JIMAB"), a 100% owned subsidiary of Beowulf Mining Plc, which is listed in both Stockholm and London, and is 57,4% owned by Swedish shareholders.

Kallak was discovered by the Geological Survey of Sweden (SGU) in 1947 and was in 2013 designated as an Area of National Interest ("ANI") due to its potential importance for the security of supply for Sweden.¹

In that sense, Kallak is deemed by the SGU as a strategic and valuable asset, worth protecting for its mining potential, alongside the producing mines of LKAB (Kiruna and Malmberget) to maintain Sweden's leading position as the single largest iron ore producer in Europe.

... AND A REAL OPPORTUNITY

JIMAB has applied for an exploitation concession to earn the mining rights for Kallak North, one of three known mineralised targets, which also include Kallak South and other Parkijaure licences. A mine at Kallak will make a positive economic impact on Jokkmokk, creating direct and indirect employment, providing the stimulus for new local and regional enterprises, and supporting Jokkmokk Municipality through tax revenues for a period of up to 25 years or more.

FACILITATED BY BEOWULF

To date, SEK 72m has been invested in Kallak, a significant commitment by JIMAB towards delivering a modern and sustainable mining operation, in partnership with the local community of Jokkmokk.

Kallak – a quality asset and an exciting opportunity for Jokkmokk



Photo: Curtesy of Beowulf Mining Plc.

Source: 1) SGU (2013): Beslut 2013-02-19 Utpekande och detaljavgränsning av riksintresset Kallak i Jokkmokks kommun, Norrbottens län, enligt 3 kap. 7 § andra stycket i miljöbalken.

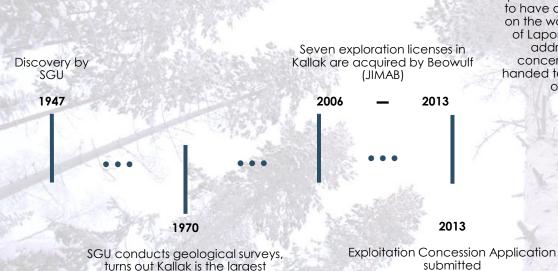
Story of Kallak - SEK 72m invested, potential 250m tonnes iron ore

Area of National Interest awarded

to Kallak by SGU, protecting its

minerals and metals from

competing interests.



The County Administrative Board ("CAB") confirm that the Company's application is sufficient with respect to Chapters 3, 4 and 6 of the Environmental Code, but decides to reject the application referring to a specific transport route said to have a negative impact on the world heritage area of Laponia. JIMAB swiftly address the CAB's concerns. Application handed to the Government of Sweden.

2014

The Supreme
Administrative Court
("SAC") decision in the
case of Norra Kärr causes
the Government to return
the application to the MI
for review in light of the
decision. Laponia is
introduced as an issue for
review.

2016

2015

The CAB supports the project stating that mining is economically relevant and that the Kallak North project generates economic benefits at local, regional and national levels, including direct and indirect jobs, tax revenues, and more broadly across mining equipment and services sectors in Sweden.

JORC resource upgraded – Kallak North and south combined have potential for 250m tonnes 2017

CAB fails to answer MI questions as part of MI's review, or provide any further opinion.
MI confirms to the Government that the application is consistent with SAC's Norra Kärr ruling.

Naturvårdsverket and Riksantikvarieämbetet confirm that Kallak has no direct impacts on Laponia.

MI hands application back to the Government.

1) Bergsstaten (2015) Yttrande Dnr BS 22-559-2013

unexploited iron ore deposit in

Sweden¹

Jokkmokk today

A DECLINING POPULATION

Jokkmokk experience a declining and aging population. Compared to 2000, the number of inhabitants has decreased by 15%. About one fourth of the people moving from Jokkmokk are young people between 18-24 years of age.

Unless this trend is reversed, it will, over time, result in a decrease in the working-age population and fewer people to cover costs of welfare, benefits, schools, health care etc.

In 2015, the total work force of Jokkmokk amounted to 2 419 people, of which 427 commuted out of the municipality to work (and 267 commuted in).¹

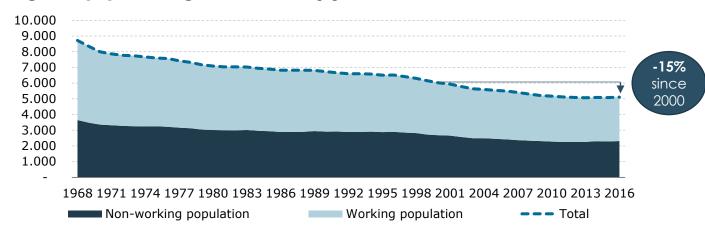
LACK OF LOCAL JOBS AND BUSINESS OPPORTUNITIES

The need to commute out of the municipality to find work may reflect a lack of job opportunities locally. Unemployment rates are higher in Jokkmokk than in Norrbotten generally, and in Sweden as a whole (March 2017). Especially, youth unemployment was high (12%) compared to the rest of Sweden (8%).²

Compared to the rest of Sweden, public sector employment is dominant in Jokkmokk (44% compared to 33%), with the biggest employers being the municipality of Jokkmokk, Vattenfall and Norrbotten County Council.³

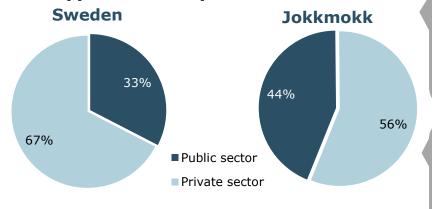
In 2015, inhabitants of Jokkmokk ranked job opportunities very low (35) compared to the average for municipalities in Sweden with fewer than 10 000 inhabitants (42).⁴

Negative population growth for many years



Source: Statistiska centralbyrån; Population Statistics

Business structure implies fewer than average work opportunities in private sector



Det behövs fler gruvor i Norrbotten. Jag hoppas verkligen att det blir en gruva i Jokkmokk (...). Får man de här på plats så skapar det sysselsättning, industriell utveckling och skapar tjänsteföretag. Sven-Erik Bucht, Landsbygdsminister P4 Norrbotten 2014-01-21

Lokal tillväxt och investeringsklimat går mot en ny istid. Fortsätter det kommer Jokkmokk frysa ihjäl. Robert Bernhardsson Kommunstyrelsens ordförande (S), Jokkmokk NSD Debatt 2017-04-07

Note: Share of private and public sector employment (16-64 year olds) in Jokkmokk municipality in 2015 Source: Statistics Sweden; The Swedish Occupational Register

Source: 1) Statistics Sweden 2017, 2) Jokkmokk Kommunfakta2017, 3) Statistics Sweden; Business register 2014, 4) Statistics Sweden; Medborgarundersökning hösten 2015. Statistics Sweden surveys citizen 'satisfaction' on a scale from 0-100. Ratings below 40 can be interpreted as "not satisfying". Ratings above 55 can be interpreted as "satisfied", and ratings of 75 or higher can be interpreted as "very satisfying".

A clear role for the mining industry in future growth and development

För Sveriges landsbygder – sammanhållen politik för för att ta Sverige in i en

te, hållbar tillväxt och välfärd

Stockholm 2017



REGIONAL STRATEGI FÖR

Innovativ och

hållbar utveckling

av mineralsektorn I NORRBOTTENS OCH VÄSTERBOTTENS LÄN - 2025



Sveriges mineralstrategi

För ett hållbart nyttjande av Sveriges mineraltillgångar som skapar tillväxt

utveckling och tekniskt lärande.



The Kallak base case

20+ YEARS OF BUSINESS ACTIVITY

Kallak North is a quality magnetite iron ore deposit with a 122,9m tonnes resource, indicated and inferred.

Beowulf is focused on developing a modern and sustainable mining operation, with concentrate production from Kallak North lasting for a minimum of 14 years.

The final product will be premium iron ore

concentrate, up to 71% iron content, with the Company's focus on European & Middle Eastern markets for pellet feed/Direct Reduction Iron ("DRI") facilities and chemical grade uses.

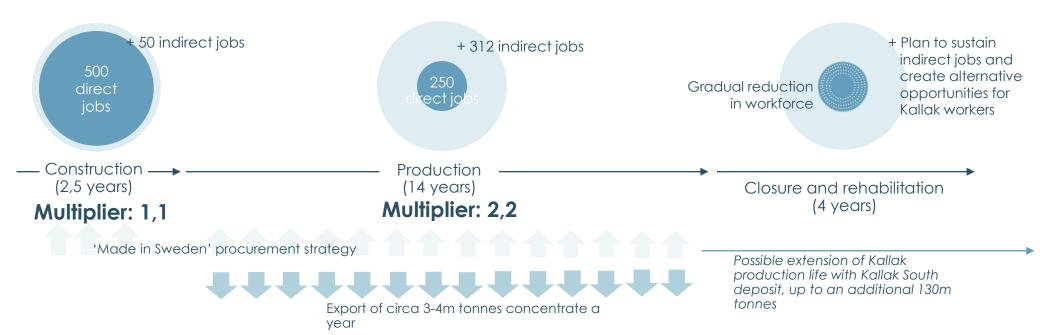
JOBS

The project requires a workforce of around 500 people in the 2,5 year long construction phase and around 250 people permanently during the 14 year production phase. Relative to the size of the labour market in Jokkmokk, 250 jobs is massive and

equivalent to a demand shock of more than 50 000 jobs in Stockholm.

Significantly, the production phase will support a large number of indirect jobs in Jokkmokk and the surrounding region through the purchase of goods and services locally. Researchers from LTU have estimated that for every job at the mine, another 1,2 jobs will be created in Jokkmokk municipality.

The Kallak project (north deposit) - Job creation in Jokkmokk



Note: Indirect (and direct) jobs reported are for Jokkmokk. Indirect jobs in Norrbotten are estimated by LTU to be even higher. Here we only report local effects in Jokkmokk to remain conservative.

Source: LTU (2013) Samhällsekonomisk effektstudie av gruvprojektet Kallak, MKB (2014)

Transforming Jokkmokk – a thriving, diversified and sustainable economy

A SHIFT IN BUSINESS STRUCTURE

Kallak will become a major employer in Jokkmokk; about half the size of the municipality.¹

Kallak will bring almost as must employment to Jokkmokk every year as all of Jokkmokk's most typical workplaces (1-4 employees) together. Last year, only 3 new 'typically sized' employers established themselves in Jokkmokk.² All else equal, Kallak will move the business structure more towards the country average of 67% private

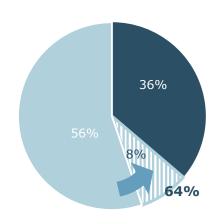
sector jobs. Expansion with local suppliers and businesses can add to this development even further.

MORE JOBS, MORE TAXES

Estimates of Kallak's tax contribution to the municipality of Jokkmokk range between SEK 19-63m a year, or SEK 266-882m over the 14 years of production, depending on the assumption on share of locals in the workforce.³

Looking further ahead and at the Kallak North and South deposits combined with a potential global resource of 250m tonnes, Kallak could support a production life of 25 years or more. Assuming yearly taxes of SEK 44m (the mid-point of the SEK 19-63m range), this could mean a total contribution from Kallak to Jokkmokk municipality of more than SEK 1b, and support the development of an economy that lives well beyond Kallak.

Towards a more diverse business structure



■ Public sector

Private sector + Kallak

Note: Change in share of public and private employment in Jokkmokk with an 250 people increase in private sector employment, all else equal. Source: Copenhagen Economics' calculations based on data from Statistics Sweden and LTU (2013) Samhällsekonomisk effektstudie av gruvprojektet Kallak

Tax contribution of Kallak

14 years of mining at Kallak North



25 years of mining at Kallak North, South, and Parkijaure

Note: Total tax contributions based on a 14 and 25 year production phase with a yearly tax contribution of SEK 44m. SEK44m is the midpoint between Ramböll's low-scenario estimate of SEK 19m with a 30% local work force and LTU's estimate of SEK 63m with a 100% workforce. Contained in this interval is Ramböll's high-scenario with SEK 40m in taxes a year, corresponding to a 70% local work force.

Source: Ramböll (2015) Samhällsomvandling som följd av eventuell gruvetablering i Jokkmokk, LTU (2013) Samhällsekonomisk effektstudie av gruvprojektet Kallak

Source: 1) 250 jobs versus 575 in 2014 according to Statistics Sweden, Business Register 2) Copenhagen Economics' calculations based on data from Statistics Sweden 2017 and Regionfakta, Norrbotten, 2016. Self-employed are disregarded. 3) Ramböll (2015), LTU (2013).



Realising the potential of Kallak

THE DEVELOPMENT PHILOSOPHY OF BEOWULF

Estimates from both Ramböll and LTU suggest a potential of 1-1,2 new indirect jobs in Jokkmokk for every direct job at Kallak (i.e. a multiplier of 2-2.2). When taking into account all jobs created nationally from a mine (including both direct, indirect and the so-called induced jobs), Svemin, the industry association of mines, mineral and metal producers in Sweden, estimates a multiplier of 4.1

History, however, suggests that to maximise the local positive effects of direct investment, **a formal strategy** for sourcing from the local labour, goods and services, and for developing these further, needs to be formulated and initiated.

Beowulf does not believe that the current labour market and business community in Jokkmokk will be able to realise a multiplier in the 2.2 region, without a strategic plan and capacity building.

With an objective to realise the full potential of Kallak in Jokkmokk, Beowulf invites the community, the municipality, county, government and local businesses and business organisations to a structured cooperation with the aim of preparing the labour market, business life and (social) infrastructure for the big investment that Kallak is, while at the same time safeguarding other interests, such as tourism, and the interests of the Saami reindeer herders and their communities.

Beowulf has identified a number of activities that could help prepare Jokkmokk and maximise the likelihood of realising the full potential of Kallak. Similarly, Beowulf has identified a number of potential commercial partners where mutually beneficial strategic partnerships could be formed upon Beowulf receiving the exploitation concession.

Beowulf is committed to local development in close cooperation with other stakeholders and propose a number of concrete dialogue processes that will result in contractual commitments and follow-up over the course of the mining operation, ensuring that local economic potential is reaped (see next slides). Beowulf believes that such processes are currently absent in Sweden.

 $Source: 1) \, Svemin \, (2012) \, {}^{\circ}\!\! Gruvbranschen - en \, till v \ddot{a}xtmotor \, f \ddot{o}r \, Sverige \, '$

Collaboration



Mine electrification, zero-diesel, zero carbon



- Job centres
- Business associations and incubators
- Local businesses and suppliers
- Regional banking/finance e.g. commercial banks, Norrlandsfonden



SCANIA

VOLVO SANDVI



PORT OF LULEA - SWEDEN

Supply chain optimisation



Innovation, education partner; Technical, Environmental, Political science, Economics

- Government (local, regional, national)
- Social, Public Infrastructure & Services Planning (Trafikverket)

Source: Copenhagen Economics

Opportunities for partnerships and collaboration

2017	+3-9 months	+9-12 months	+12-15 months	+18-24 months	+ 2 years	+2-14 years
Exploitation Concession granted.	Work shop(s): Beowulf, municipality, and jobcentre to identify skill set requirements for employment at Kallak and need for skill development of primarily unemployed in Jokkmokk.	Task Force Local Jobs: Job centre evaluates skills of unemployed and offer relevant, qualifying training for mining industry.		Task Force Local Jobs: First group of trainees start in vocational training with Beowulf.	Task Force Local Jobs: First group finishing vocational training transfers to regular employment at Beowulf. Second group of unemployed starts vocational training programme.	Evaluation of an reporting on achievements compared to targets.
CAL SUF	PPLIERS AND SUE +6-12 m		- TASK FORCE 'MAL +12-18 months	DE IN SWEDEN' +18-24 months	+ 2 years	+2-14 years

Opportunities for partnerships and collaboration

STRATEGIC, COMMERCIAL PARTNERSHIPS AND COLLABORATION

2017

+6-9 months

+9-12 months

+ 12 months

Mining concession granted

Beowulf initiate meetings with Vattenfall to discuss opportunities for collaboration Beowulf and Vattenfall to further explore and develop mutually beneficial partnerships. Beowulf and Vattenfall define scope of collaboration and sign

Vattenfall and Beowulf identify areas in national and regional strategies where they can play a significant and mutually beneficial role

Research other potential partners, sponsors etc.

gional e they ificant

Bland annat är landsbygdernas natur- och kulturmiljöresurser viktiga för att ta Sverige in i en biobaserad och fossilfri ekonomi och för att göra Sverige till en utvecklad besöksnation.

Som ett nytt långsiktigt klimatmål ska Sverige senast år 2045 inte ha några nettoutsläpp av växthusgaser till atmosfären.

Press release from Swedish Government 15. June 2017



Opportunities for partnerships and collaboration STRATEGIC, COMMERCIAL PARTNERSHIPS AND COLLABORATION 2017 +9-12 months + 12 months +6-9 months Mining Beowulf and Beowulf initiate Identify how Beowulf Inlandsbanan/Port of concession meetings with local can support existing suppliers of transport infrastructure to discuss granted capacity expansion Luleå define scope of plans and become a collaboration and sign opportunities for strategic partner MoU. (yearly transportation collaboration need for 3-4m tonnes Consider possible concentrate) interface and synergies with regional Identify project and national specific needs for development plans Kallak project and examine how Inlandsbanan's and the port of Luleå can Regeringen uppdrog den 21 accommodate maj 2015 åt Trafikverket att ta fram Beowulf to optimise ett Inriktningsunderlag joint benefits of partnerhship inför den långsiktiga **infrastrukturplaneringen** för perioden 2018-2029. Utvecklingen av infrastrukture 🧡 viktig för att både skapa fler jobb och nå målet om att bli ett av världens första fossilfria välfärdsländer. Previous minister of infrastructure, Anna Johansson, 24 **LULEÅ HAMN** # Inlandsbanan PORT OF LULEA . SWEDEN

oto: Inlandsbanan

Next steps - Building momentum



Initiate workshops for Task Force Local Jobs and Made in Sweden

2017 2018

> Develop/sign partner MoUs covering strategic collaborations

Drill Kallak South Exploration Target and Parkijare Exploration Licences

Resource drilling Engineering studies Design and planning

Building commercial partnerships

Continued work on Task Forces Local Jobs and Made In Sweden

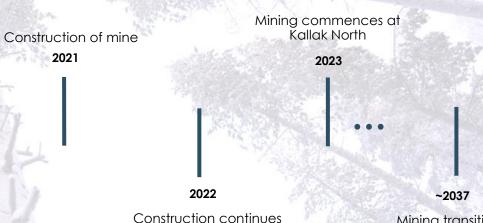


Final planning and design work

2020

Commence work on Definitive Feasibility Study

Secure funding



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