



Picture: Rendered schematic of Ludvika mines surface infrastructure

DEVELOPMENT PROJECT FOR ULTRA HIGH-GRADE IRON ORE CONCENTRATE FEED AND POSSIBLY P/REE BYPRODUCT

Nordic
Iron Ore™

PRESENTER



Ronne Hamerslag

CEO since July 2022

- +25 years of experience from international operations and business leadership within mining and other industries
- M.Sc. Metallurgy and Materials Technology from the Royal Institute of Technology (KTH)
- Former Head of Supply Management at Boliden
- Various international leadership roles at Ericsson for ~10 years



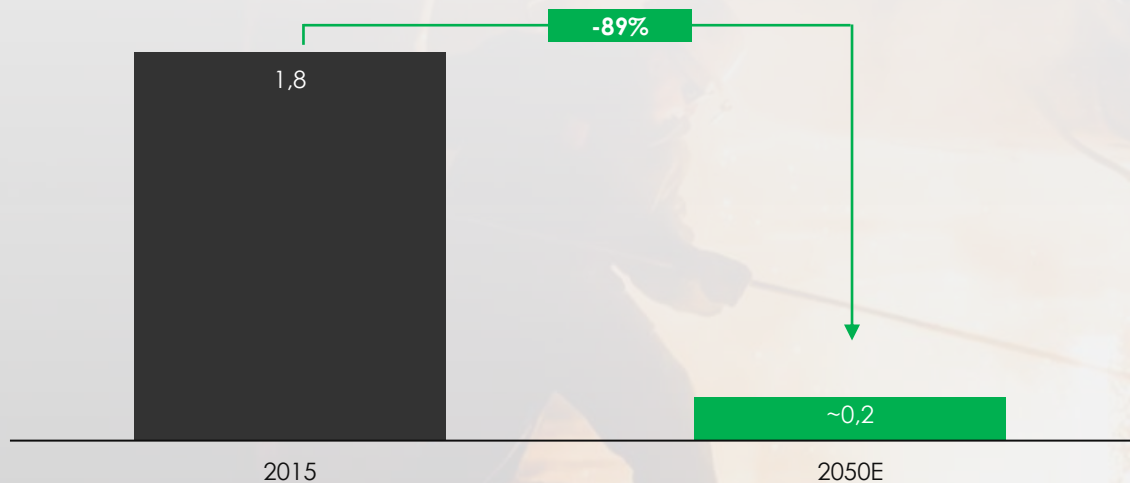
BOLIDEN



GREEN STEEL PLAYS AN IMPORTANT ROLE IN REACHING GLOBAL CO₂ TARGETS

Required change in steel production carbon intensity in line with the Paris agreement

Tonnes CO₂ per tonne steel produced





~90% lower carbon intensity in steel production required



New metallurgy is needed – incremental improvements is not enough



Several technical solutions are explored by the steel industry

European green steel initiatives


Arvedi


H2green steel


TATA STEEL


ArcelorMittal


BLASTR Green Steel


LKAB HYBRIT


thyssenkrupp


voestalpine


LIBERTY STEEL


MERKSTEIN


SSAB


Uss

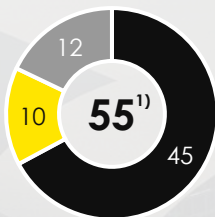
SUPPLY OF ULTRA HIGH-GRADE IRON ORE CONCENTRATE (>68% FE, $\text{SiO}_2 + \text{Al}_2\text{O}_3 < 3.5\%$)

Secured permissions and qualified iron ore deposit

Blötberget overview



Mine assets (mt)

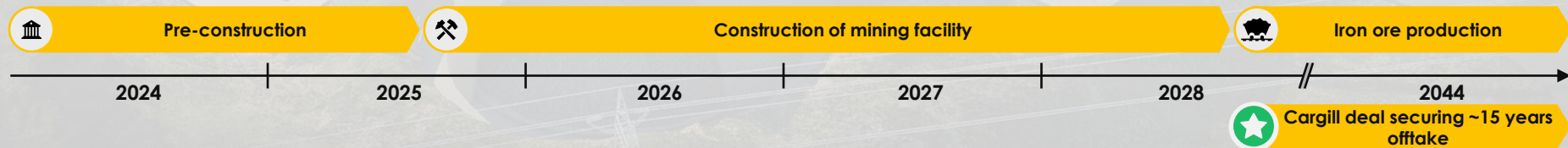


- Measured
- Indicated
- Inferred

Secured logistics, infrastructure, permits and partners gives a short lead-time to come on stream



Blötberget – Preliminary timeline



Cargill investment and commitment



Offtake agreement

25mt

Iron ore concentrate

~15y

Estimated mining period

BLÖTBERGET HAS STRATEGIC LOCATION WITH SEVERAL IMPORTANT CONNECTIONS

Roads and railroads connecting Ludvika to the rest of Sweden



Blötberget is strategically located next to highways part of the Swedish national road system



With a population of ~26,500, Ludvika can provide local labour force and minimise the need for accommodations



Direct access to 52kV powerlines guarantees operational reliability and efficiency



Approved technical solution from the traffic authority (*Trafikverket*) for direct railway connection, enabling train transportation of iron ore to harbour in Oxelösund





Gonäs

Ludvika

HÖGBERGET-CENT

50

NOTGÅRDEN-LUDVIKA
GÅRD-NISSBO

Blötberget

Skeppmora

JÄGARNÄS-

Grindfallet

Dagkarlsbo



Klenshyttans Herrgård
Nyligen visad

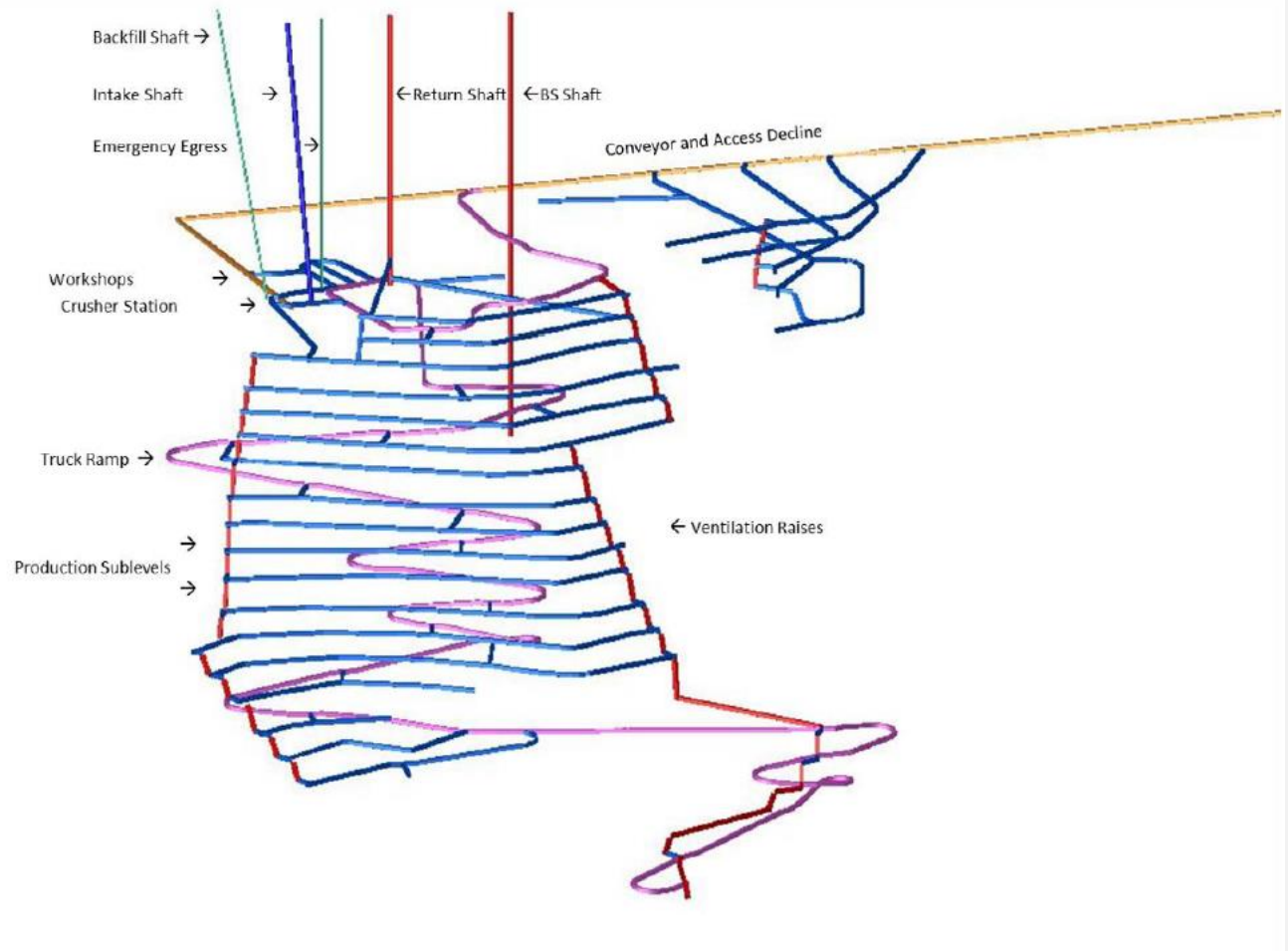
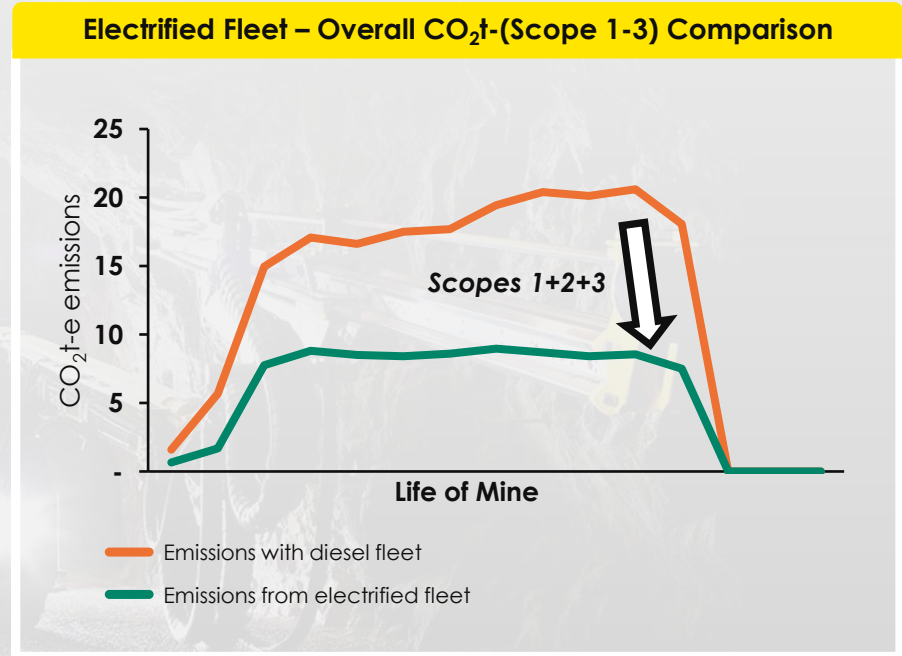
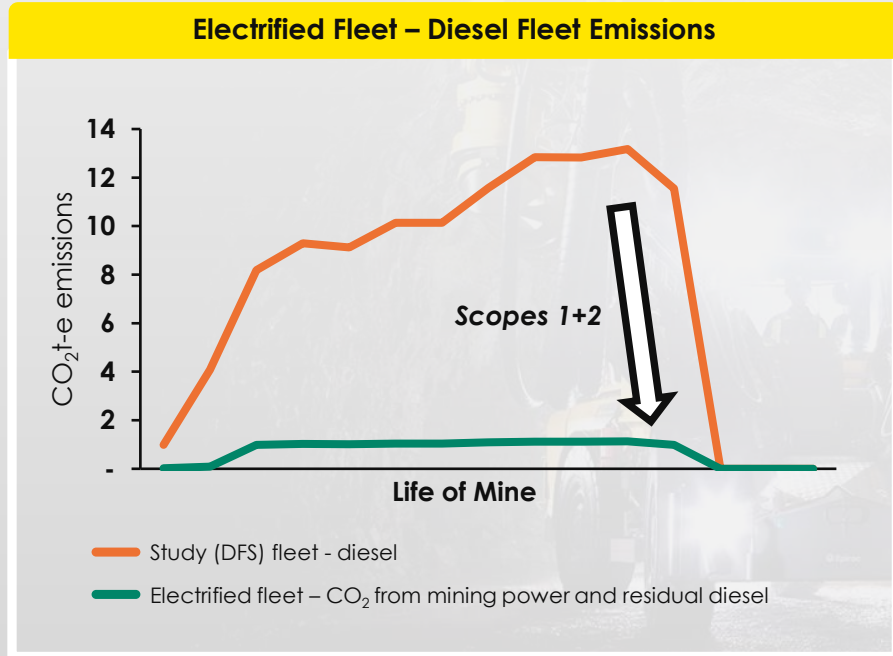
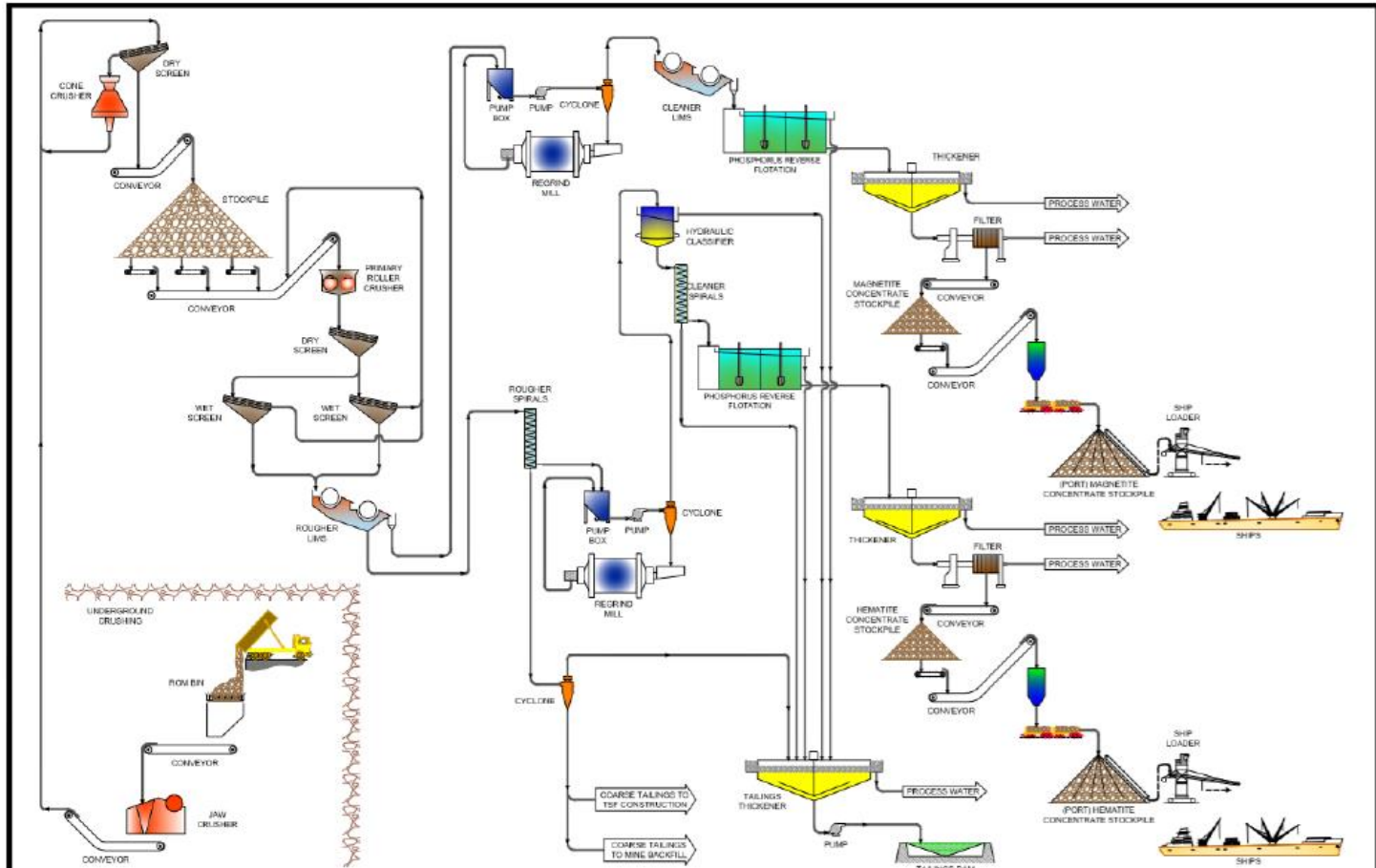


Figure 6: Underground Access Layout

NORDIC IRON ORE ELECTRIFIED FLEET IN COMPARISON WITH TRADITIONAL DIESEL FLEET

An electrified fleet demonstrates significantly reduced emissions

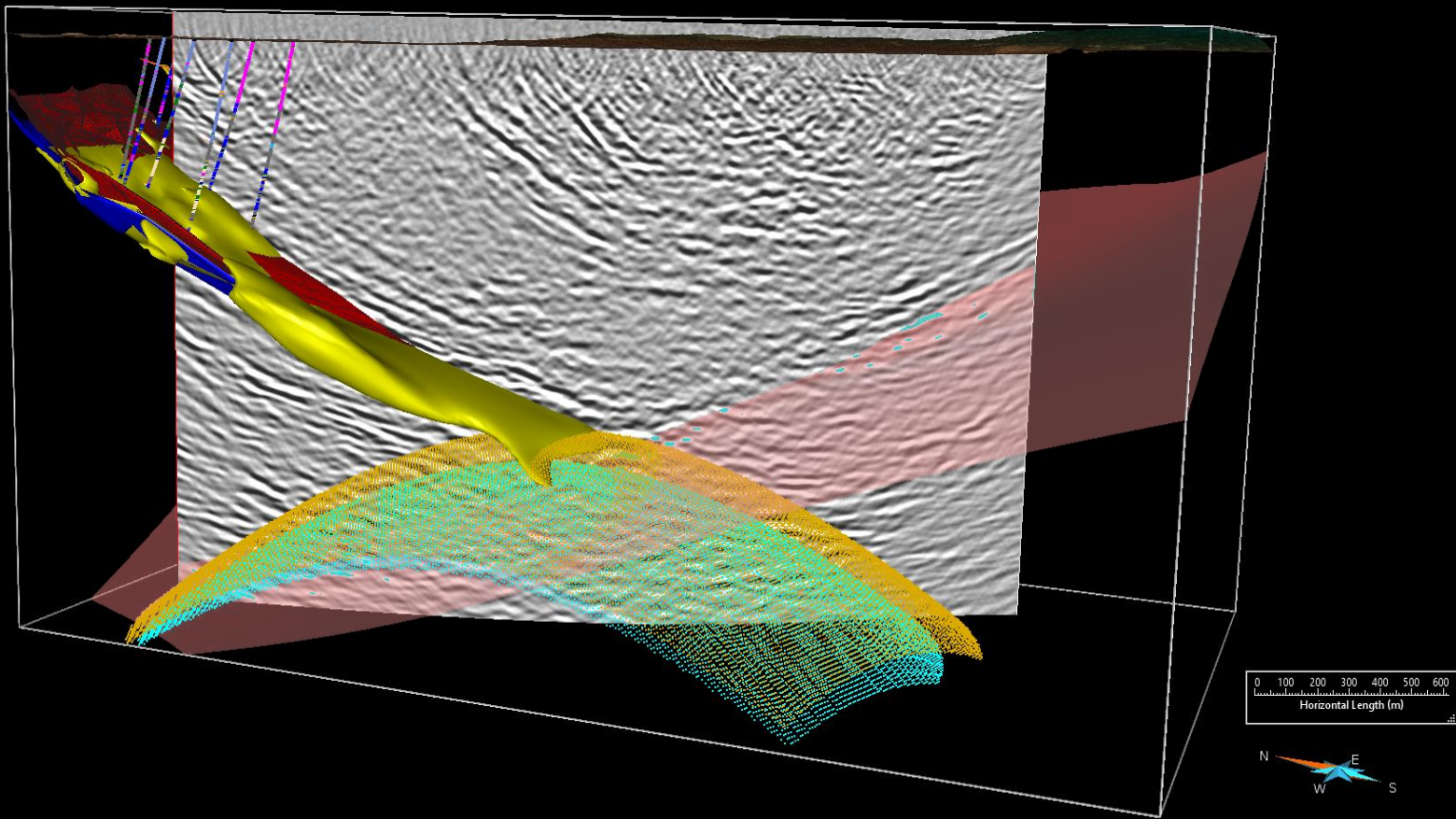




BLÖTBERGET PROJECT

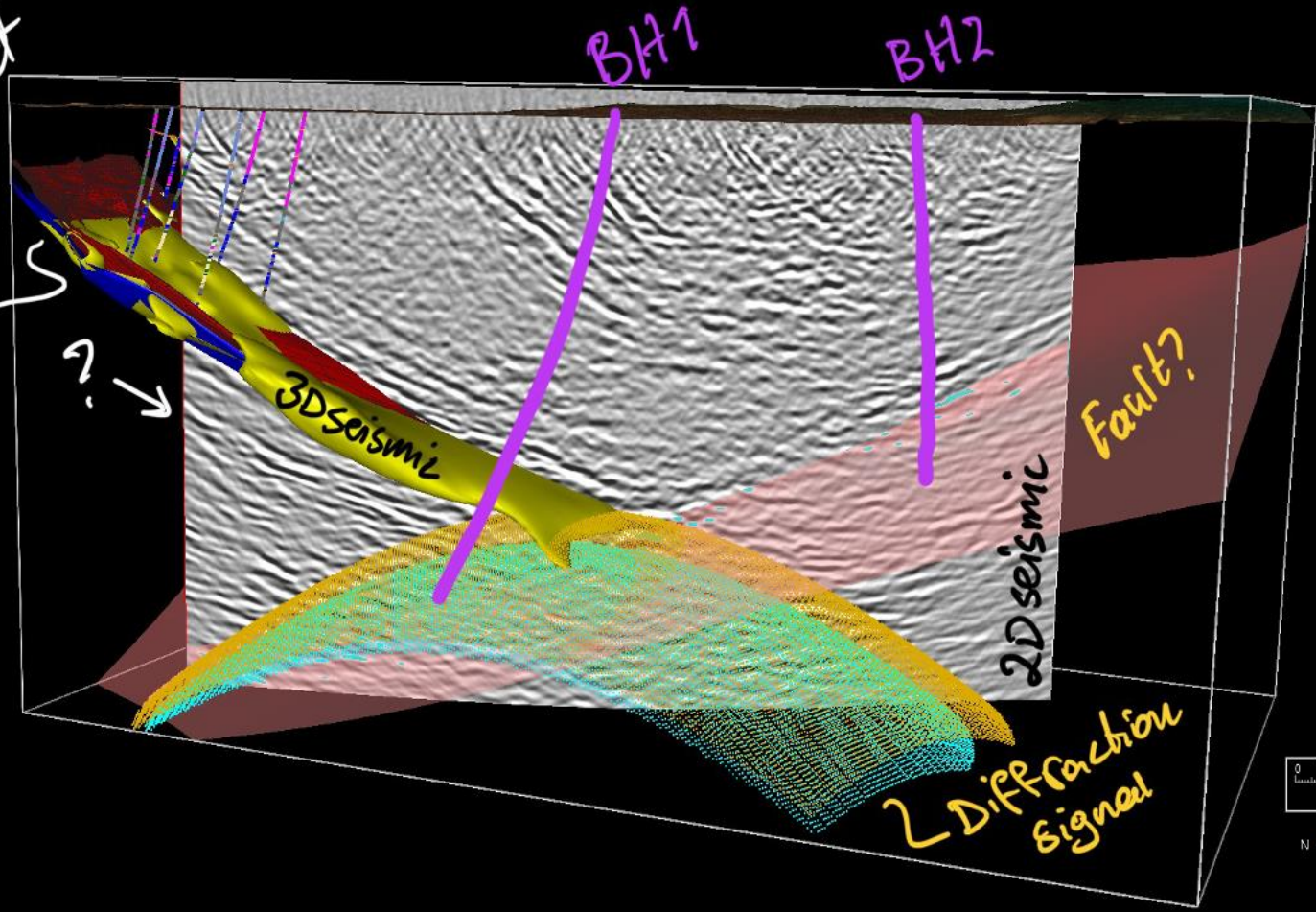


Figure 9: Process Block Flow Diagram



Blötberget

Known deposits



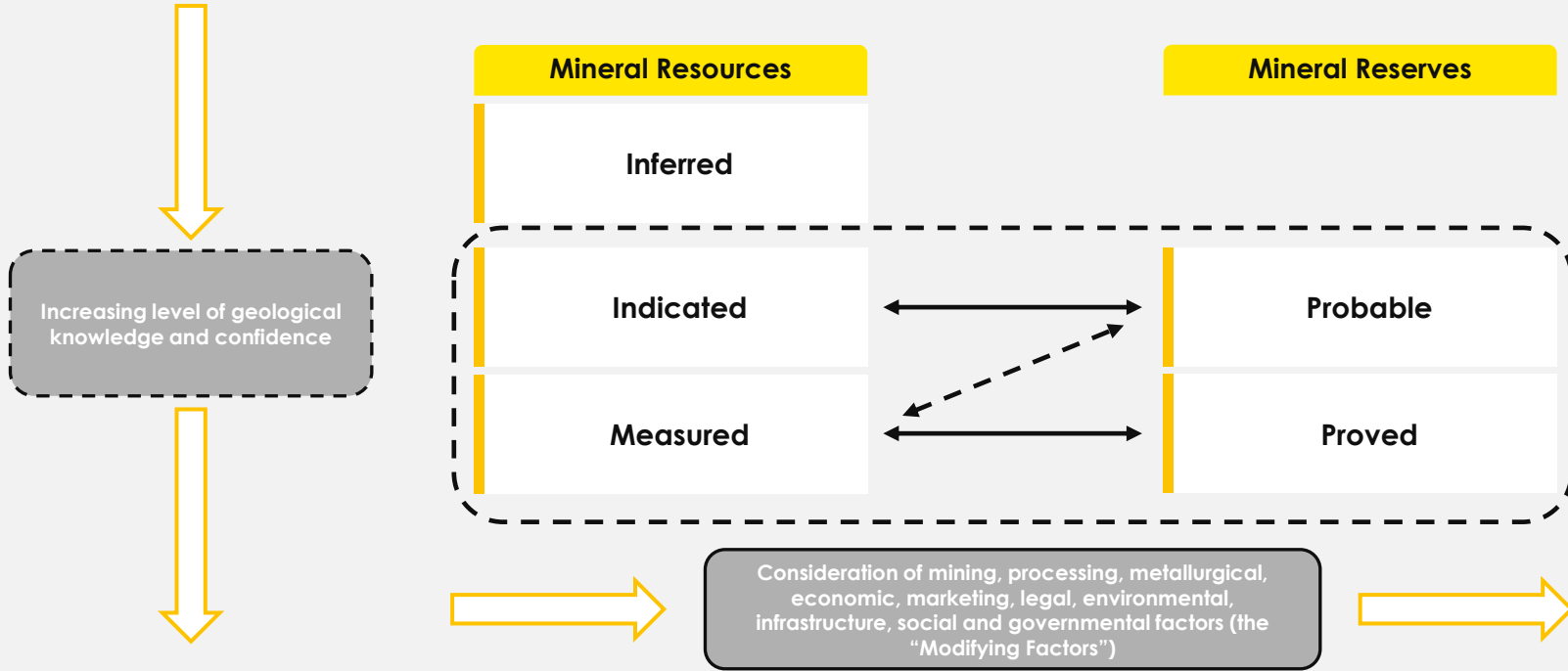
SMART
EXPLORATION
RESEARCH CENTER

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EXPLORATION RESULTS

The characteristics of mineral resources and mineral reserves



BLÖTBERGET - CURRENT EXPLORATION TARGET +35MT, AND ADDITIONAL DEPOSITS



Phase 1

Blötberget mine

- Mineable reserve: 34mt according to DFS 2019
- Production start end of 2028, enabling mining until at least 2043
- Resource open to the depth and laterally

Mine assets¹⁾



- Measured
- Indicated
- Inferred



55mt mineral resources with all necessary permits in place



Future expansion phases

Väsmän mine

- NIO performed a confirmation drilling program in 2012
- Mining concession granted 2017
- New low level magnetics survey in 2018, 2020 and 2022
- Mining under lakes is common practice

Mine assets²⁾



- Indicated
- Inferred



A long known very large expansion potential

Håksberg mine

- Mining concession 2011
- Environmental permit 2014
- Resource open to depth
- Historical "cut-off grade" ~30 percent (much left to mine)

Mine assets²⁾



- Indicated
- Inferred



Abandoned mining facility with iron ore left to mine

Notes: 1) Mineral resources according to JORC 2012 2) Mineral resources according to JORC

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