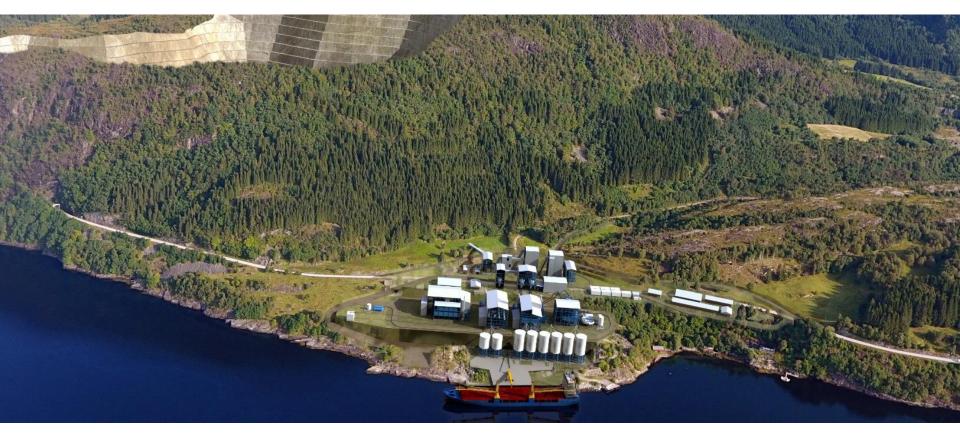
Minerals for a sustainable future



Nordic Mining Investment Conference Helsinki, 17 April 2018



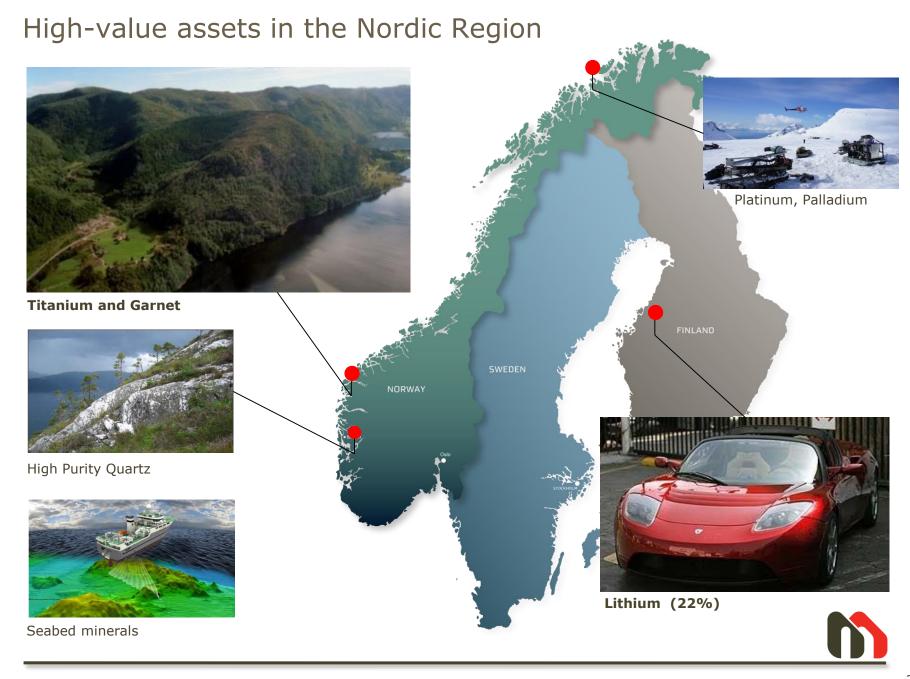
Exploration and production of high-end minerals and metals

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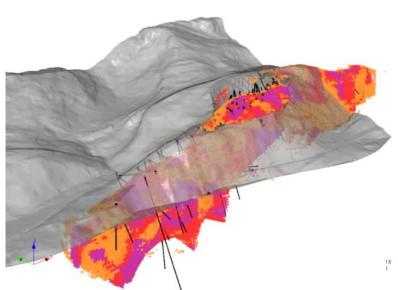




Large eclogite deposit located at tidal waters

- Outcropping deposit with unknown extension to depth
- Geotechnically stable orebody allows for effective mining
- Low impurities, negligible content of heavy metals and radioactive elements
- Easy transition from open pit to underground mining







High grade rutile and garnet mineralisation

Mineral resource and reserves classification*

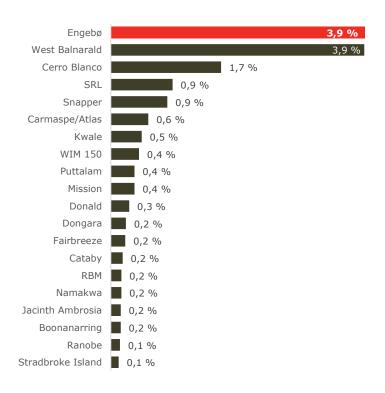
- Increased cut-off implies stronger financial performance in early mining years
- ✓ Large potential in inferred resources

	3% cut-off grade			
	Tonnage Mt	TiO ₂ %	Garnet %	
Measured	15	3.97%	44.6%	
Indicated	78	3.87%	43.6%	
Measured & indicated	93	3.89%	43.7%	
Inferred	138	3.86%	43.5%	

	Ore reserves		
	Tonnage Mt	TiO ₂ %	Garnet %
Proven	10.194	3.81%	43.4%
Probable	31.702	3.35%	39.5%

Among the highest rutile grades

 Rutile grade for current producers and planned projects





^{*} Resource estimates and reserve statement completed by Competent Person Adam Wheeler, corresponding to the guidelines of the JORC Code (2012 edition).

Rutile and garnet - unique mineral properties, increasing demand

Rutile (TiO₂)

Current world production: ~ 0.8 million tonnes









Tests have demonstrated that Engebø can produce 95% TiO₂ rutile suitable for pigment and titanium

Garnet

Current world production: ~ 1.4 million tonnes









Tests have demonstrated that Engebø can produce coarse and fine garnet suitable for a broad range of applications

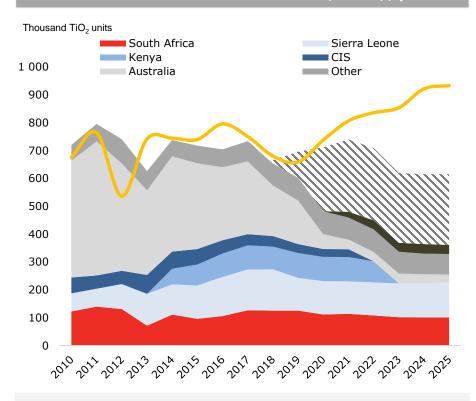


Rutile demand expected to grow with increasing prices

1 000

500

Global rutile demand is forecasted to outpace supply...



- Market conditions in the chloride pigment sector are improving and expected to result in a tighter market and in turn a rutile supply deficit
- Significant producers with depleting resources
- · Some industry consolidation has taken place, e.g. with Iluka's acquisition of Sierra Rutile



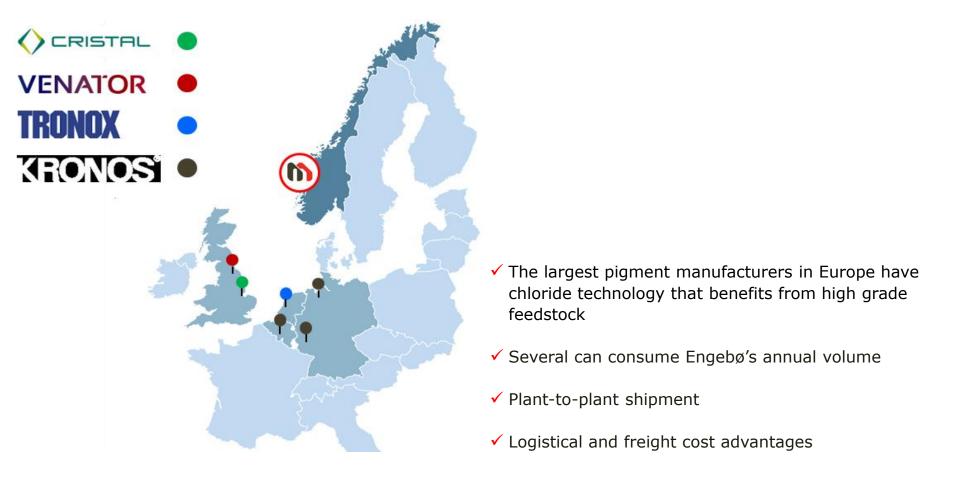
...driving rutile prices up in the forecast period



- Since 2012 the global rutile market has worked through a supply overhang as chloride pigment producers embarked on a de-stocking cycle, which pushed rutile prices down
- Longer-term outlook indicates higher rutile prices. A significant supply deficit will develop if no new projects are commissioned



Export sales to Europe and overseas markets





First European producer of Garnet

Garnet market and price assumption

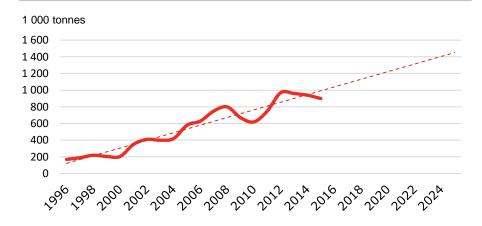
Current world production



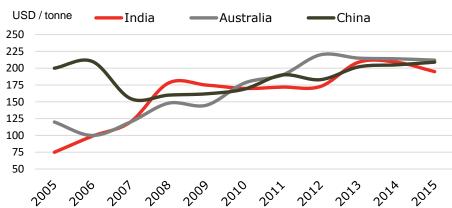
- Emerging mineral with strong growth in the waterjet cutting markets
- · Currently no European production
- Engebø is one of few hard rock deposits with almandine garnet
- Engebø will produce commercial end-products:
 - 80 mesh waterjet
 - 100 mesh waterjet
 - 30/60 mesh blast market
- PFS garnet price assumption of USD 250/tonne in real terms based on a basket of the three products with roughly equal weighting

Estimated garnet price, Engebø PFS				
Product / Case	Low price	High price		
80 mesh waterjet	USD 267/t	USD 289/t		
100 mesh waterjet	USD 267/t	USD 289/t		
30/60 mesh grades	USD 289/t	USD 311/t		
PFS garnet basket price		USD 250/t		

Estimated garnet consumption (excl. China)



Historical average garnet export prices (FOB)





Cooperation with the US Barton Group for garnet

The Barton Group

- ✓ Barton, family owned and founded in 1878.
- ✓ Leading US garnet producer and distributor
- ✓ Leading player in developing waterjet cutting technology
- ✓ Operates a garnet mine in the state of New York
- ✓ Supplies high-performance garnet abrasives in Western Europe, South America, Southeast Asia and China



Heads of Agreement

Nordic Mining entered into a Heads of Agreement with Barton Group, on the following main principles:

- ✓ Offtake agreement for North America
- ✓ Joint-venture agreement for other markets
- ✓ Financing of pre-construction project development
- ✓ Construction financing

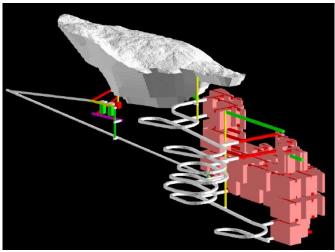




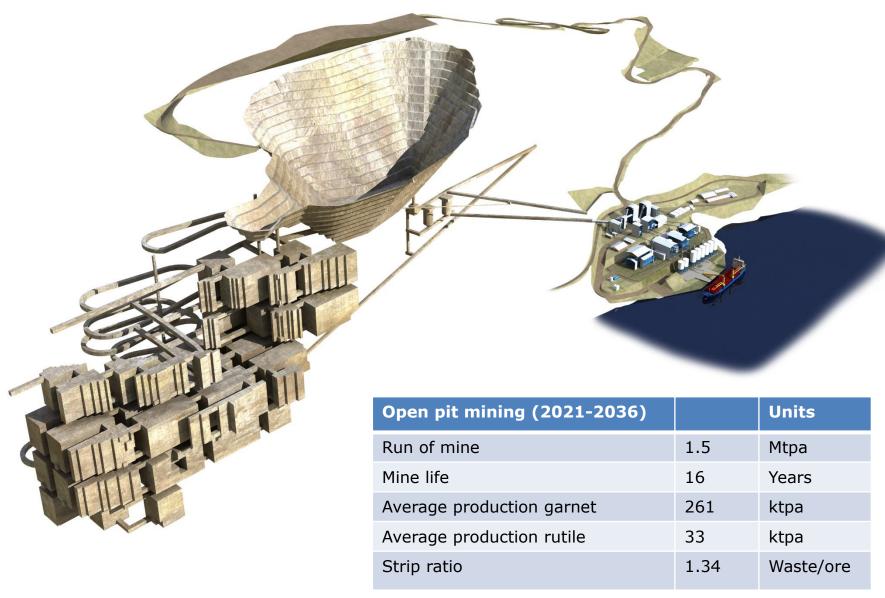
Favourable internal logistics

- √ 16 years open pit mining
- ✓ Rich ore in the early years
- ✓ Low stripping ratio
- Glory hole concept with underground crushing facility
- Underground silos enables storage and operational flexibility
- ✓ Minimum haulage distance
- ✓ Limited visual impact
- ✓ Open pit gives easy access to underground ore

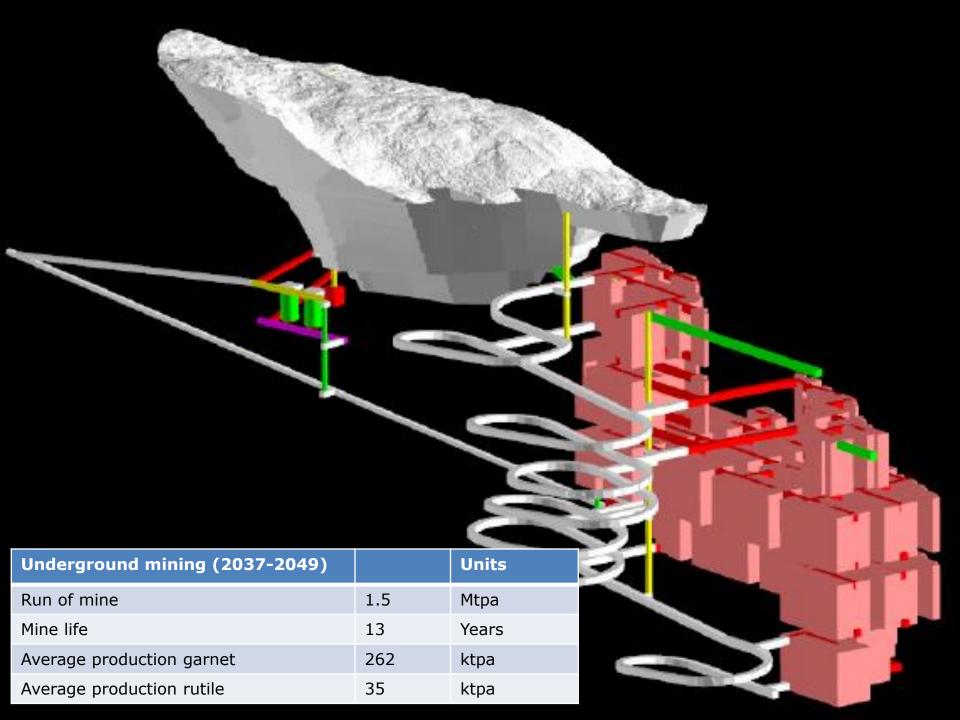












PFS process testwork; industrial scale equipment

- Comprehensive testwork has documented commercial products from rutile and garnet according to market specifications
- ✓ Testwork has demonstrated rutile recovery of approximately 60%























Lay-out of processing plant and shipping facilities

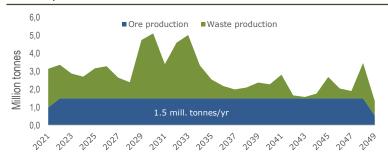




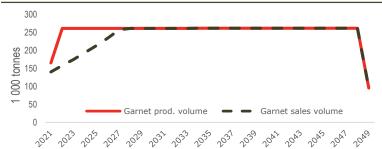
Key project assumptions

Assumptions	Value
Garnet price	USD 250/tonne
Rutile price	USD 1 070/tonne
Garnet sales (from ~2027)	261 000 tpa
Rutile sales (average)	32 500 tpa
Opex per sales tonne ¹⁾	USD 87 per tonne
Capex 2019-2021	USD 207 mill.
Open pit mining and comminution	26.8
Mineral processing and tailings handling	68.6
Infrastructure, storage and loadout	35.7
Indirects	41.8
20% contingency	34.2
Deferred capex 2033	USD 17 mill.
Underground mining and comminution	10.8
Indirects	2.7
25% contingency	3.4

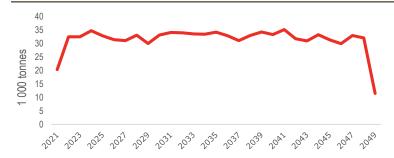
Mine production



Garnet sales and production volume



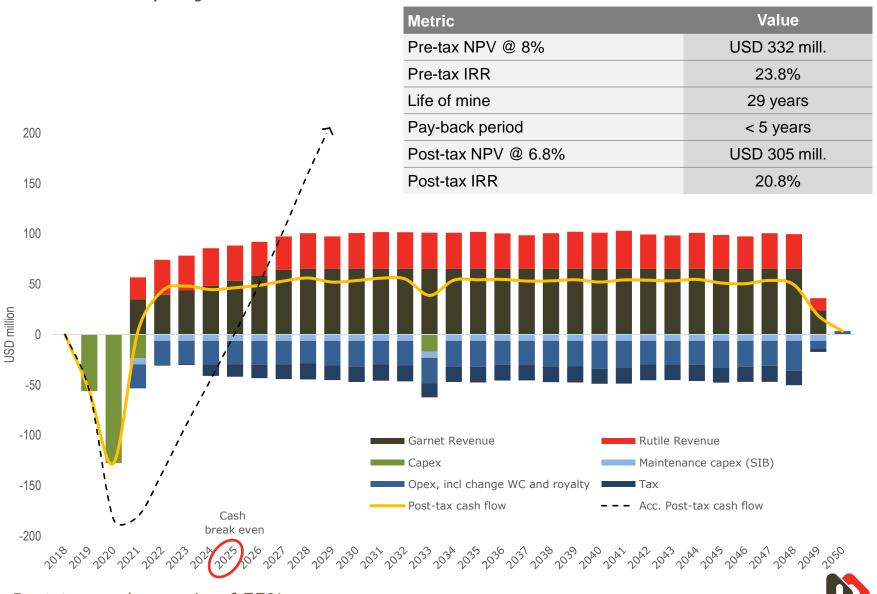
Rutile sales and production volume





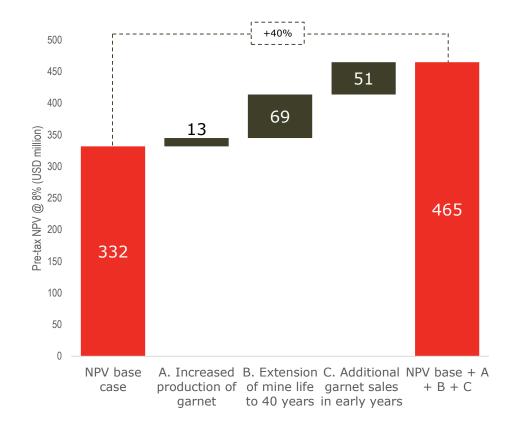
¹⁾ Based on total sales volume for rutile and garnet

Attractive project economics



Large upside potential

- A. Increased production of garnet to 300 000 tonnes/year
- B. Extension of mine life to 40 years by including Inferred Resources
- C. Additional garnet sales in early years





Competitive rutile revenue-to-cash cost position

✓ The revenue-to-cash cost ratio is based on the first ten years of operations.

25%

✓ Engebø benefits from producing two high value products with low mining and processing costs

Industry revenue-to-cash cost curve: 2021 4.2 3.6 Engels 1st quartile 2nd quartile 3nd quartile 3nd quartile 4nd quartile 2021 Industry weighted average: 1.85 1.2 0.6

50%

Cumulative TiO₂ units

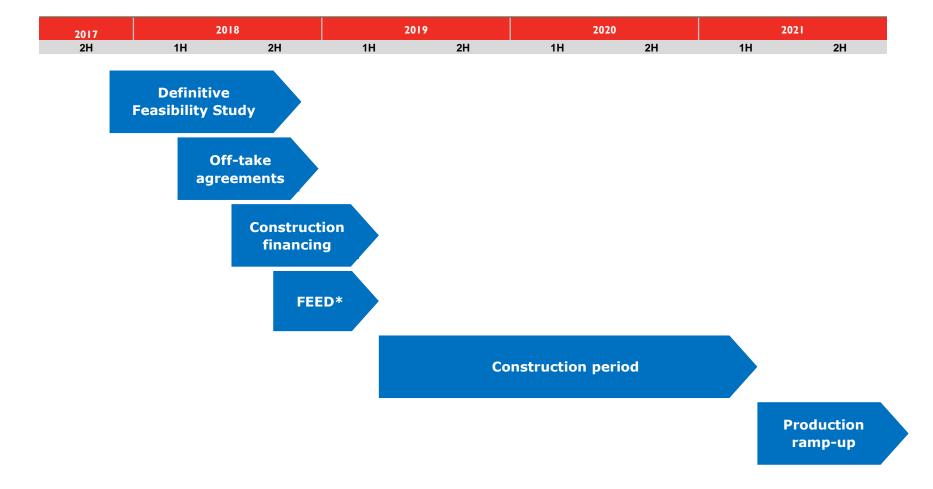
75%

Source: TZMI



100%

The way forward





Definitive Feasibility Study (DFS) targets project bankability

- ✓ Mining trade-off studies, mine design and schedule
- Processing testwork, ore variability and flowsheet optimisation
- Modularisation and logistical studies
- Procurement strategy and procurement operating plan
- ✓ Multi-disciplinary design and engineering work
- ✓ Project Execution Plan(PEP) and Construction Schedule
- ✓ Risk assessment
- ✓ Building "Owners team" including local project team
- ✓ Cooperation and anchoring with local society

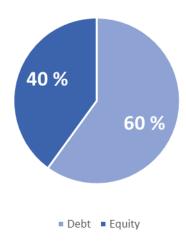


Indicative outline of construction financing

Key financing pre-requisites and time-line:

- ✓ Definitive Feasibility Study (bankable)
 Q4 2018
- ✓ Offtake agreements for rutile and garnet 2018

Tentative construction finance package; 60%/40% debt-equity



Sources of capital

- Equity (industrial partners, shareholders and others)
- Bank loans
- Bonds
- Streaming/Royalty
- Leasing
- · Supplier credits
- Hybride instruments (i.e. convertible bonds)

Target to establish financing in H1 2019



Summary

1	The Engebø project – One of the world's largest rutile and garnet deposits	\ :	Total of M&I of 93 mill. Tonnes (3% cutoff) High grades: 3.9% rutile grade and garnet grade of 43% Favorable logistics, stable political environment
2	Firm market outlook going forward	\ :	Rutile – depleting existing resources resulting in supply deficit and tighter market Garnet – emerging mineral with strong growth, no current European production Lithium – exceptional growth of demand driven by the EV sector
3	Total project NPV of USD 332 million	\ :	Phased development with CAPEX estimate of USD 207 mill. in first phase Start-up in 2021 and later investments funded by operational cash flow IRR of 20.8% and less than 5 years payback
4	Robust project economics	\ :	Garnet price and volume impact cushioned by agreement with Barton Group. High project flexibility Low environmental footprint
5	22% ownership in lithium development company Keliber	\ :	Early move into the highly attractive lithium market Ongoing DFS and likely commercialization Financial investment with potentially high return
6	Project de-risking and bankable Definitive Feasibility Study (DFS)	> :	The DFS includes plans for sale/offtake and basic engineering Exploring several opportunities for construction financing Partnered with blue chip professionals on DFS

THANK YOU!

Safety - Environment - Innovation



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