

Investor presentation
October 2018

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# **Risk factors**

### Key risks specific to Nordic Mining or its industry

- Development of the Group's assets will depend upon the Group's ability to obtain financing
- The operations of the Group are pre-commercial and will only be developed provided technical, environmental and financial feasibility
- The Group is subject to production and operating risk, including unexpected geological formations, mine failures, explosives, availability of production equipment and potential damage to equipment, property and infrastructure
- The Group is subject to risk related to changes in mineral and metal prices, government regulations, political and environmental factors
- The minerals and metals industries are highly competitive and the Group
  has no guarantee that this competition will not have an adverse effect at
  some point on the Group's ability to acquire, explore and develop its mineral
  and metals resource deposits
- There is no assurance that the Group will be successful in obtaining governmental permits, licenses and approvals related to its projects on conditions acceptable to the Group
- The Group's estimates as to the size of the mineral resources and ore reserves are in accordance with the JORC code (2012 edition). Actual operating results may deviate from these estimates
- Development of the Group's projects are subject to various risks, including the size of required capital expenditures, processing costs and other financial and non-financial aspects that may impact project return

Adverse developments or occurrences in any of the risk factors may have a material adverse effect on the business and financial condition of the Group

### Key risks specific to the securities

- The price of the Shares could fluctuate significantly
- Future sales, or the possibility for future sales, including by existing shareholders, of substantial number of Shares could affect the Shares' market price
- Future issuances of Shares or other securities could dilute the holdings of shareholders and could materially affect the price of the Shares
- Investors may not be able to exercise their voting rights for Shares registered in a nominee account
- The transfer of the Shares may be subject to restrictions on transferability and resale in certain jurisdictions
- Exchange rate fluctuations could adversely affect the value of the Shares and any dividends paid on the Shares for an investor whose principal currency is not NOK

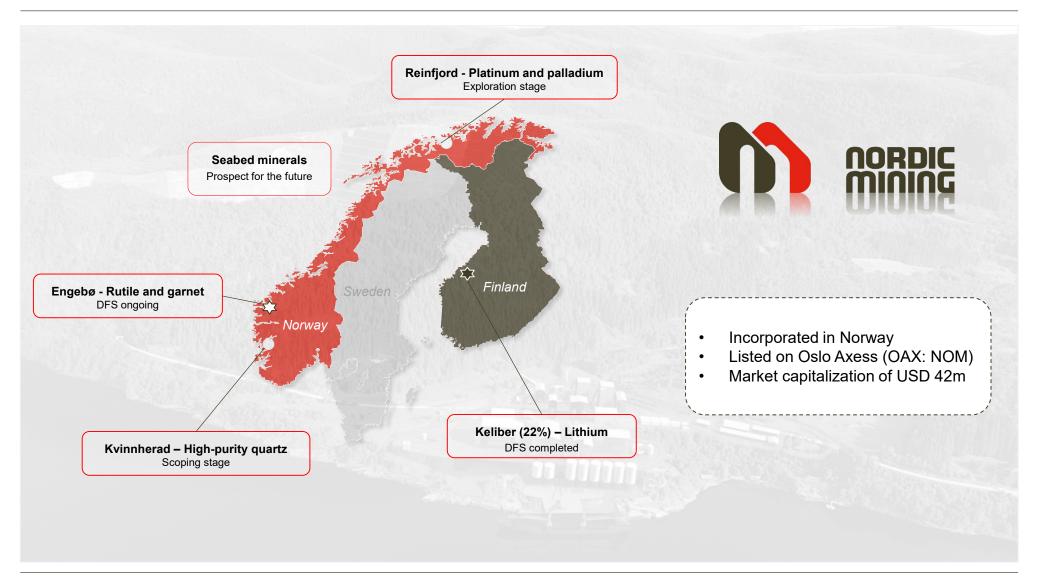


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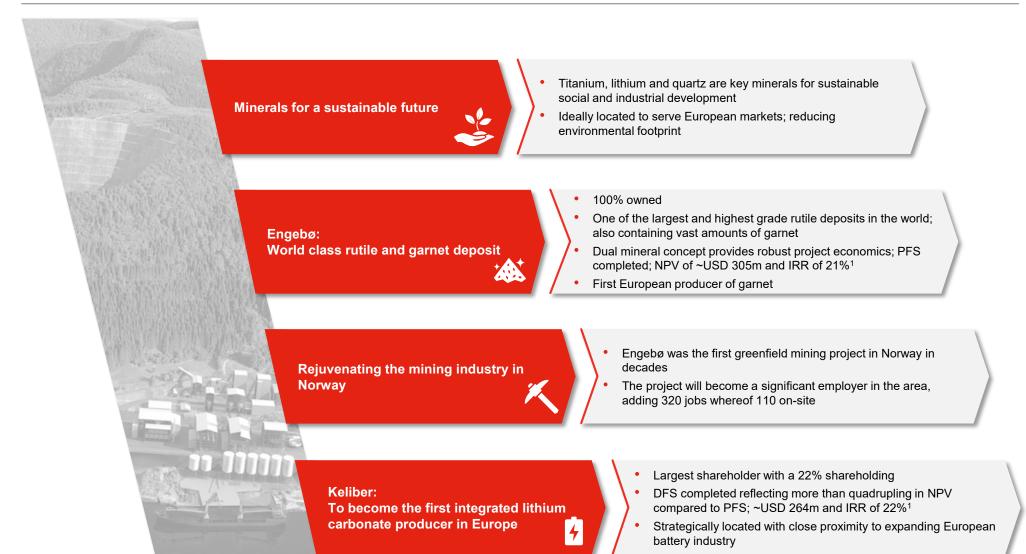


# **Developing high-end minerals in the Nordic region**





# Transforming strategic deposits to long-term shareholder value





# Good progress and positive developments continued in 2018

# 1 Markets improving

# Improving markets for rutile and garnet

### Rutile

- TZMI's long-term price forecast increased to 1,092 USD/t (1,070 USD/t assumed in the PFS)
- Supply/demand-gap increasing and occurring earlier than previously expected

### Garnet

- Demand increasing and supply constrained
- Continuing price increases observed

# 2 Engebø evolving

### Increased resource base and significantly de-risked project

- Agreements with the main landowners signed
- Resource estimates up ~6% post PFS, based on limited drilling program in Q1-18
- Activities to secure offtake agreements ongoing
- DFS progressing well:
  - Geotechnical assessments confirmed important mine plan parameters
  - Flowsheet to be confirmed based on process test-results; bulk sample program commenced
  - Regulation plan for water supply ready to be filed for municipality approval
  - Detail regulations of process and mining area progressing well
- Archaeological investigations as per regulation requirements near complete
- Infrastructure preparations, including power supply, in detail engineering phase
- Detailed environmental program under development

# Keliber values increasing

### DFS completed in June 2018; more than quadrupled post-tax NPV compared to PFS

- Substantial increase in NPV
  - Output increased from 9,000 to ~11,000 tonne LCE
  - NPV post-tax increased from USD ~61m (PFS) to USD ~264m (DFS)
  - Post tax IRR of 22%
  - Payback time of 5.5 years
- Activities to secure offtake agreements and project financing ongoing
- Building the organization for construction and production
- Further exploration targeting increased resources ongoing

# 4 Strengthening team

# Building the organization for construction and operation

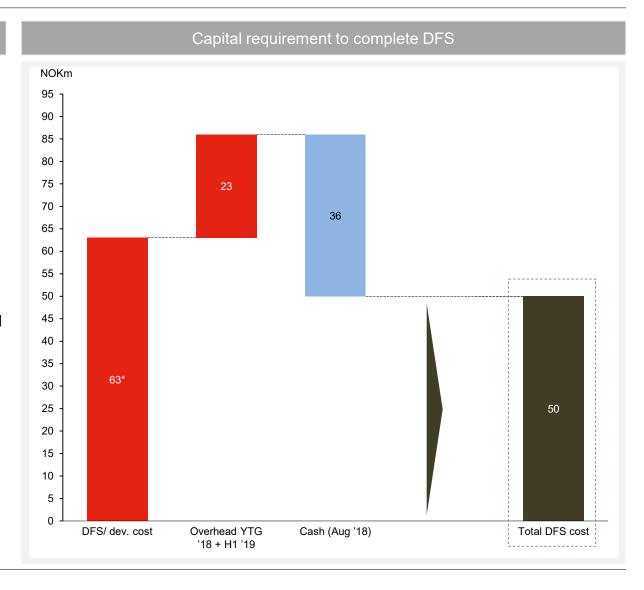
- Birte Norheim new CFO as of August 2018
- Kenneth Nakken new Project Manager for the Engebø project as of August 2018
- In addition, key technical positions hired and/or in process



# Funding requirement to complete DFS milestone

### **DFS**

- The main purpose of the DFS is to qualify the project for construction financing
- The comprehensive work program related to the Engebø definitive feasibility study (DFS) is progressing well
  - Finalizing flowsheet based on process testresults; bulk sample program commenced
  - Infrastructure preparations, including power supply, in engineering phase
- Expected completion is mid-2019
- Funding requirement to complete DFS of NOK 50m; including contingency of 10% and overhead cost until mid-2019





\* Includes contingency

# **Management team and Board of Directors**

### Management team



### Ivar S. Fossum, CEO

- 12 years with Nordic Mining (since founding)
- 20 years experience from management positions in Norsk Hydro and FMC Technologies



### Birte Norheim, CFO

- Employed as of August 2018
- Broad management experience from various companies in the natural resources and infrastructure sector, i.a. as CEO of Njord Gas Infrastructure AS and VP Finance of Sevan Marine ASA



### Mona Schanche, VP Exploration

- 10 years with Nordic Mining
- · Geologist with broad mining background



### Lars K. Grøndahl, Senior Advisor

- 12 years with Nordic Mining (since founding)
- Broad experience from various industrial management positions



### Kenneth Nakken Angedal, Project Manager Engebø

- Employed as of August 2018
- Broad management and project coordination experience from various management positions in the ABB Group

### **Board of Directors**



### Tarmo Tuominen, Chairman

- Deputy CEO in Nordkalk and Chairman of the Geological Survey of Finland (GTK)
- · Geology and mining background



### Kjell Roland, Deputy chairman

- CEO of Norfund
- Previous experience as partner and CEO in ECON Management AS and ECON Analysis
- · Finance / economics background



### Mari Thjømøe, Board member

- Extensive executive and board experience from oil and gas, finance and investment management (e.g. Equinor, Norsk Hydro and KLP)
- Finance / industry background



### Eva Kaijser, Board member

- More than 18 years of experience in the Swedish mining industry, including 11 years in Boliden
- · Finance / industry background



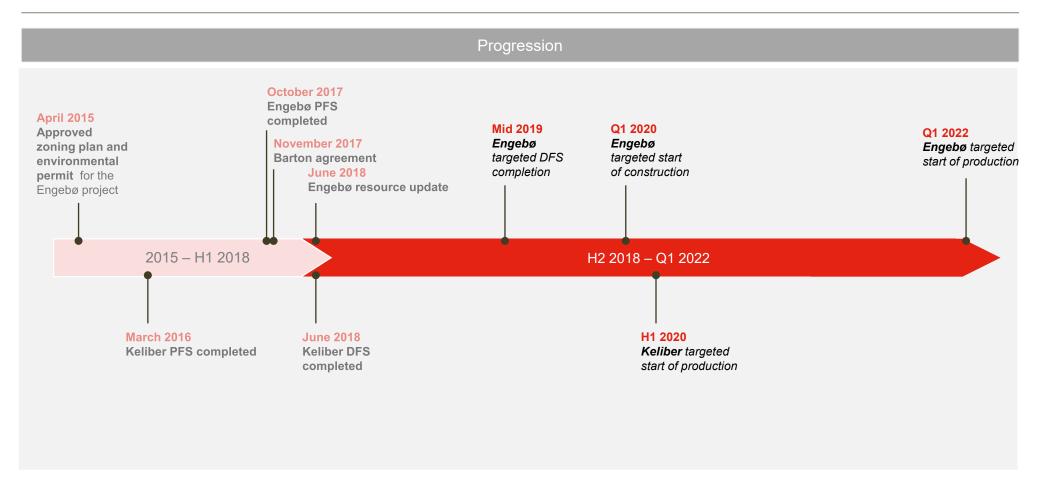
### Kjell Sletsjøe, Board member

- Comprehensive international management experience from mining, coatings and construction industries as well as consulting
- Technical / financial background

Broad mining, industrial and financial experience combined with extensive network



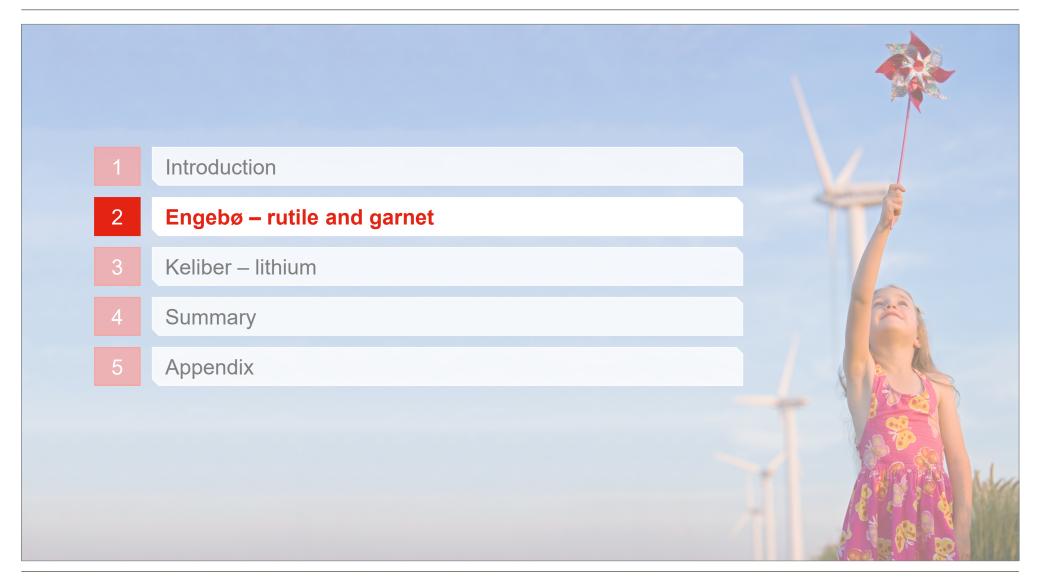
# **Key corporate milestones**





Source: Keliber (2018)

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# Unique combination of high grade rutile and garnet

### Large outcropping deposit next to tidal waters

- Hard-rock deposit with high quality rutile and garnet located in western Norway, a politically and economically stable country
- One of the world's largest deposits of natural rutile with vast amounts of garnet
- Geotechnically stable orebody allows for effective mining
- Low impurities, negligible content of heavy metals and radioactive elements
- Mining and environmental permits in place for 50+ years of mining

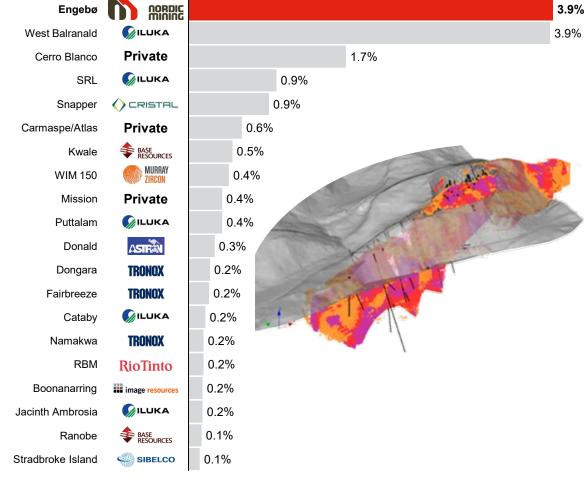
### Resource estimates

| Mineral resource <sup>1</sup> | Tonnage<br>(Mt) | Total<br>TiO <sub>2</sub> | Garnet |
|-------------------------------|-----------------|---------------------------|--------|
| Measured                      | 22.3            | 3.95%                     | 44.6%  |
| Indicated                     | 75.2            | 3.85%                     | 43.2%  |
| Measured & Indicated          | 97.5            | 3.87%                     | 44.4%  |
| Inferred                      | 132.2           | 3.82%                     | 42.5%  |

- The mineral resource estimates are defined with a 3% TiO<sub>2</sub> cut-off grade
- Large potential in inferred resources

### High rutile grade gives processing advantages



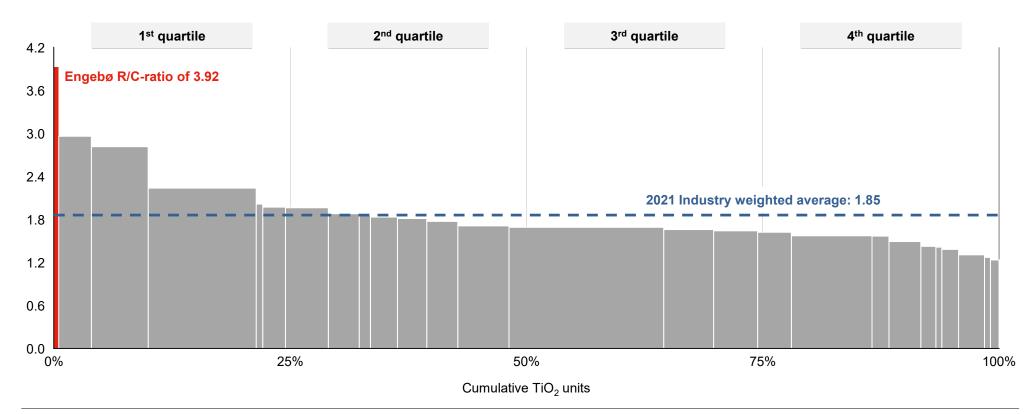




# 1st quartile revenue-to-cash cost position for rutile

### Industry revenue-to-cash cost<sup>1</sup> curve (2021)

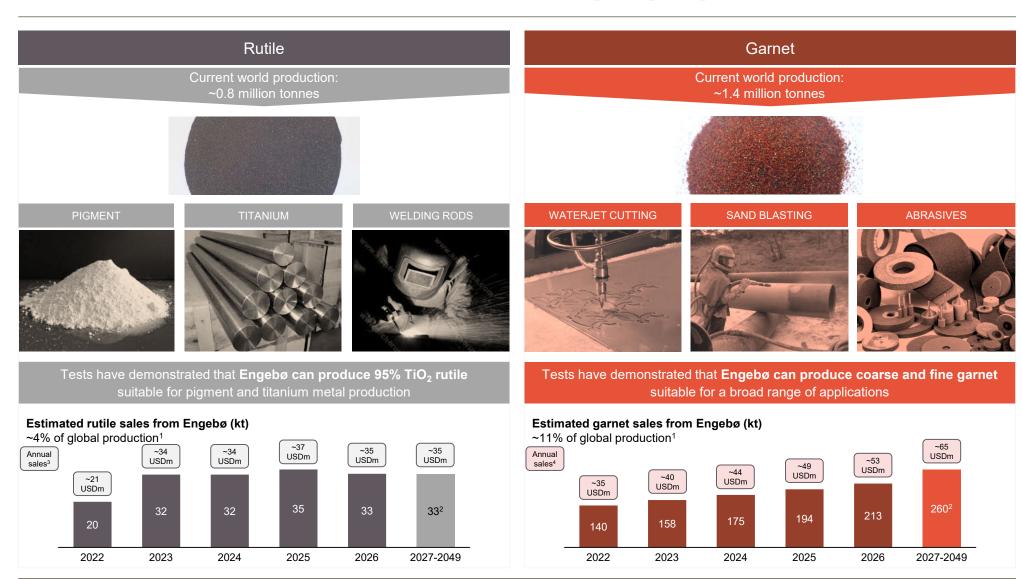
- TZMI uses the revenue-to-cash cost (R/C)-ratio as its primary measure of competitiveness for individual projects in the industry
- ~80% of global TiO<sub>2</sub> feedstock producers are included in TZMI's industry analysis
- The R/C-ratio for Engebø is based on the first ten years of operations
- Engebø (in red) benefits from producing two high value products with relatively low mining and processing costs





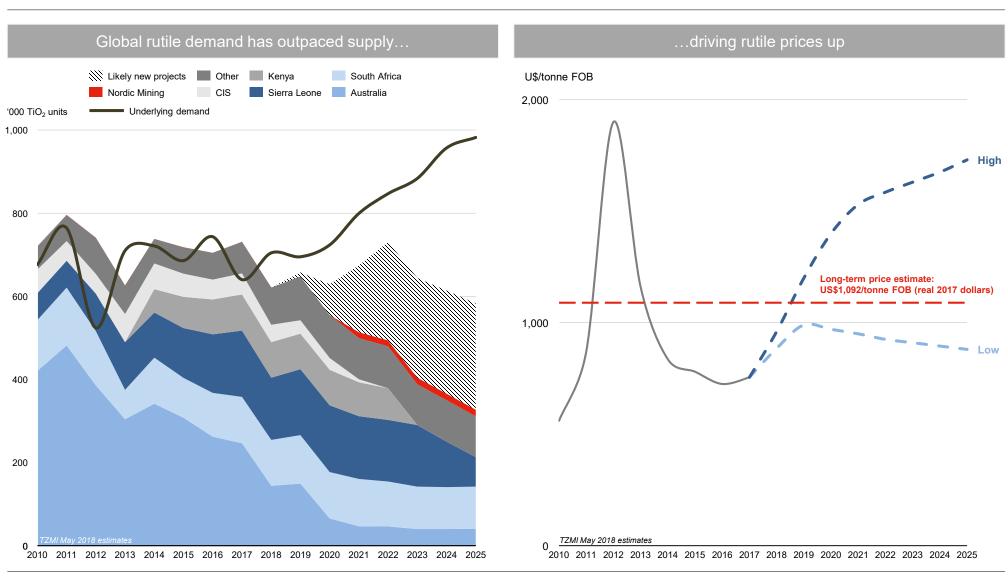
Note: 1) Net cash cost for  ${\rm TiO_2}$  including credits from other products Source: TZMI (August 2017)

# Rutile and Garnet – minerals with unique properties





# Rutile prices forecasted to increase with growing demand





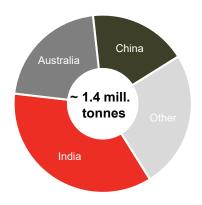
Source: TZMI (May 2018)

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# First European producer of garnet

### Garnet market and price assumption

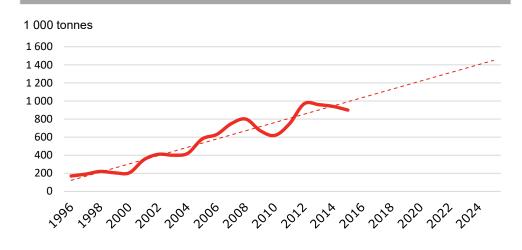
### **Current world production**



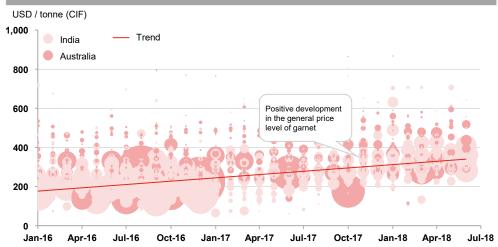
- Emerging mineral with strong growth in the waterjet cutting markets
- Currently no European production
- Engebø is one of few hard rock deposits with almandine garnet
- Engebø will produce commercial end-products:
  - 100 mesh waterjet
  - 80 mesh waterjet
  - 30/60 mesh blast market
- PFS garnet price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

| Estimated garnet price in Engebø PFS |           |            |  |
|--------------------------------------|-----------|------------|--|
| Product / Case                       | Low price | High price |  |
| 100 mesh waterjet                    | USD 267/t | USD 289/t  |  |
| 80 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)



### Recent price trend of garnet (2016 – H1 2018)





# **Cooperation with the Barton Group for Garnet**

### Heads of Agreement with the Barton Group

Agreements being firmed up based on the following main principles:

Offtake agreement & joint venture

- Exclusive distribution by Barton of Engebø garnet to the North American markets
- The garnet to be sold and distributed under Barton's brand name of high-quality products
- Jointly owned company for sale and distribution of garnet from Engebø to markets outside of North America

Financing participation

- In accordance with the HoA, Barton became a shareholder in NOM in January, and currently owns 2.3% of NOM shares
- Barton intends to participate in the construction financing of the Engebø project as an industrial anchor investor

### Ongoing cooperation activities

- Barton has nominated an observing member for the NOM Board of Directors
- Technical dialogue for garnet processing, product qualities and market development ongoing
- Discussions on offtake agreements to North America and joint venture business structure in process

### The Barton Group in brief

### A leading US garnet producer and distributor

- A leading US garnet producer and distributor with a strong foothold, particularly in the North American markets and 130 years of operating history in the garnet market
- Over the years, Barton has played a leading role in developing the fast-growing application of waterjet cutting technology where garnet is the dominant mineral
- Barton operates a garnet mine in the state of New York, and has extensive experience in production of hard-rock garnet
- In addition to serving the North American market, Barton supplies highperformance garnet abrasives throughout Western Europe, South America, SE Asia and China

### Operations and distribution centres



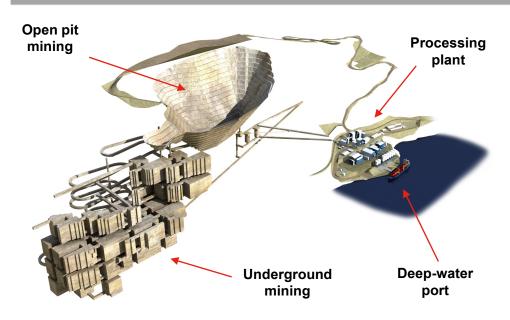


Source: The Barton Group and Nordic Mining

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# **Favourable internal logistics**

### All at one site; mining, processing and shipping



- Rich ore in the early years with low stripping ratios
- Glory hole concept gives minimum haulage distance and reduces ore transportation costs
- Underground crushing and silo facilities enable operational flexibility
- Compact processing plant with favourable logistics and direct access to the North Sea
- Easy transition from open pit to effective underground bulk mining
- Permit allows for future expansion
- On-site access to ice-free port for direct transport to production

| Open pit mining (2022-2037¹) | Value | Unit      |
|------------------------------|-------|-----------|
| Run of mine                  | 1.5   | Mtpa      |
| Mine life                    | 16    | Years     |
| Average production garnet    | 261   | ktpa      |
| Average production rutile    | 33    | ktpa      |
| Stripping ratio              | 1.34  | Waste/ore |

| Underground mining (2038-2050¹) | Value | Unit  |
|---------------------------------|-------|-------|
| Run of mine                     | 1.5   | Mtpa  |
| Mine life                       | 13    | Years |
| Average production garnet       | 262   | ktpa  |
| Average production rutile       | 35    | ktpa  |
|                                 |       |       |



# Logistical and freight cost advantages

# Engebø mine Process plant and port ~1000 km from process plant to pigment factories¹ Markets ~1000 km from process plant to pigment

# Open pit Glory hole and conveyer Process plant

- Annual ore production of 1.5 Mtpa with a strip ratio of 1:34 for the open pit operation
- Ore from the open pit will be dumped into the glory hole and primary crushing will take place underground and transported by a conveyor outside the process plant site

### Process plant with integrated port



- The secondary and tertiary crushing will be conducted in the processing area next to the deposit
- The process plant will high-grade the ore through separation and flotation to fine garnet and rutile
- The final product is shipped from the port next to the process plant

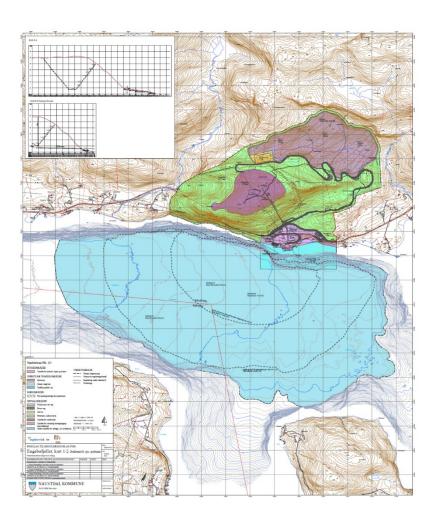
### Close proximity to European markets



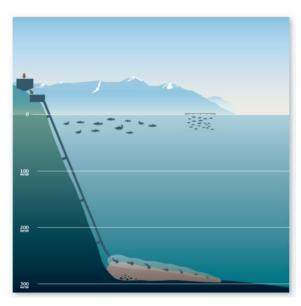
- The ice-free port allows for shipments 365 days per year
- The entire journey from deposit to European offtakers is ~1000km
- Engebø will be the first garnet producer in Europe and the 2nd of rutile

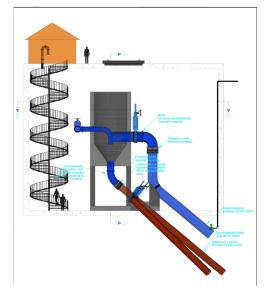


# Zoning plan and environmental permit fully granted



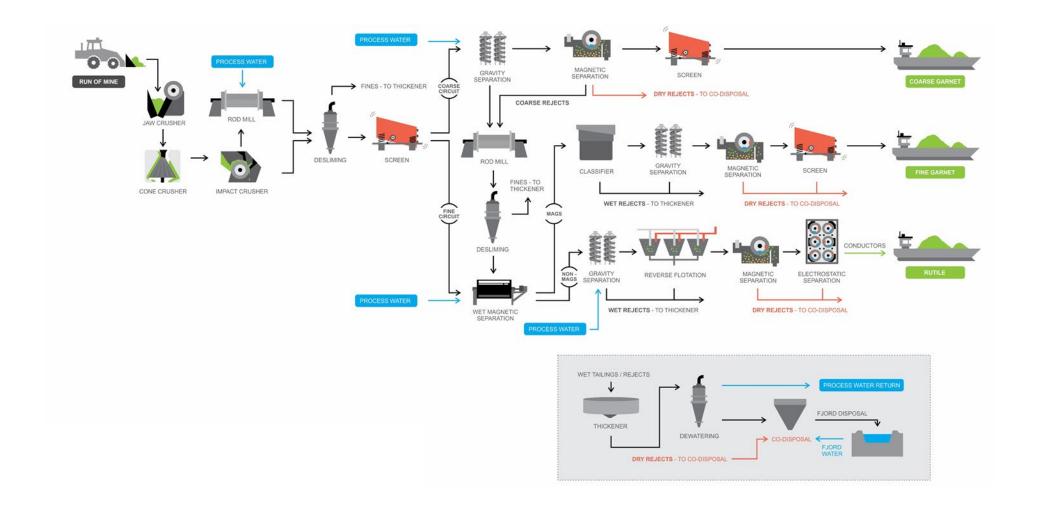
- The zoning plan and discharge permit for the Engebø project are approved and final without possibility for appeals
- Deep-sea disposal offers safe and sustainable tailings solution
- The tailings will mainly sediment within the regulated area
- The currents in the tailings area is moderate which limits risk for erosion
- Continuous monitoring of the sea disposal will be implemented







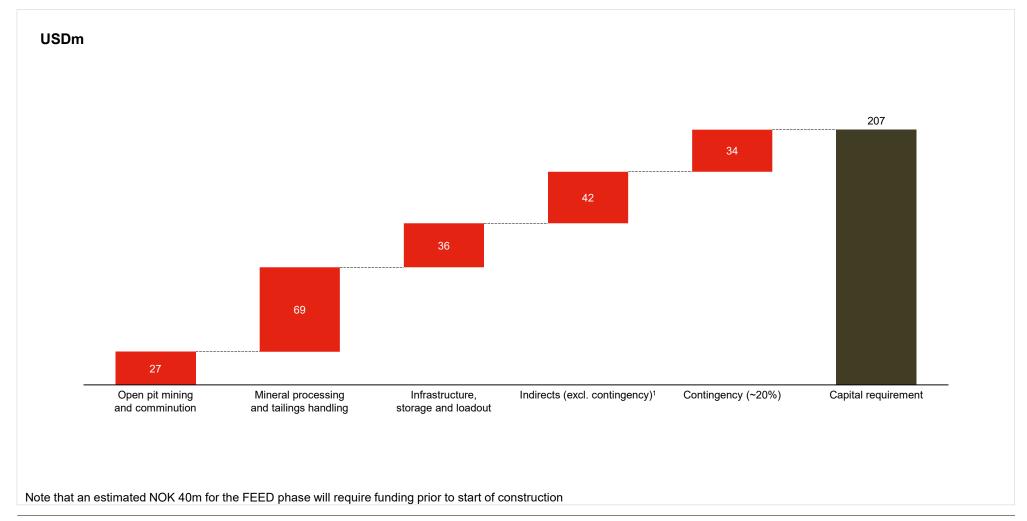
# Flowsheet of rutile and garnet process





Source: Engebø PFS

# Project capex reflecting limited infrastructure requirements



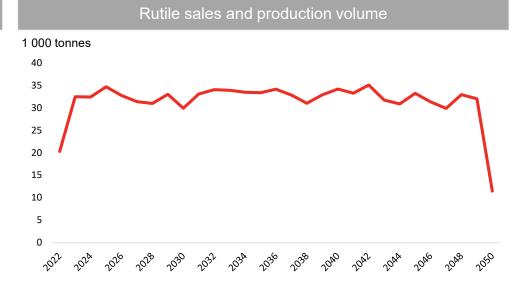


# Solid business case

| Assumptions                       | Value   | Unit             |
|-----------------------------------|---------|------------------|
| Garnet price                      | 250     | USD/tonne        |
| Rutile price                      | 1 070   | USD/tonne        |
| Garnet sales (from ~2027)         | 261 000 | Tonnes per annum |
| Rutile sales (average)            | 32 500  | Tonnes per annum |
| Opex per sales tonne <sup>1</sup> | 87      | USD/tonne        |
| Construction capex                | 207     | USDm             |
| Deferred capex                    | 17      | USDm             |
|                                   |         |                  |

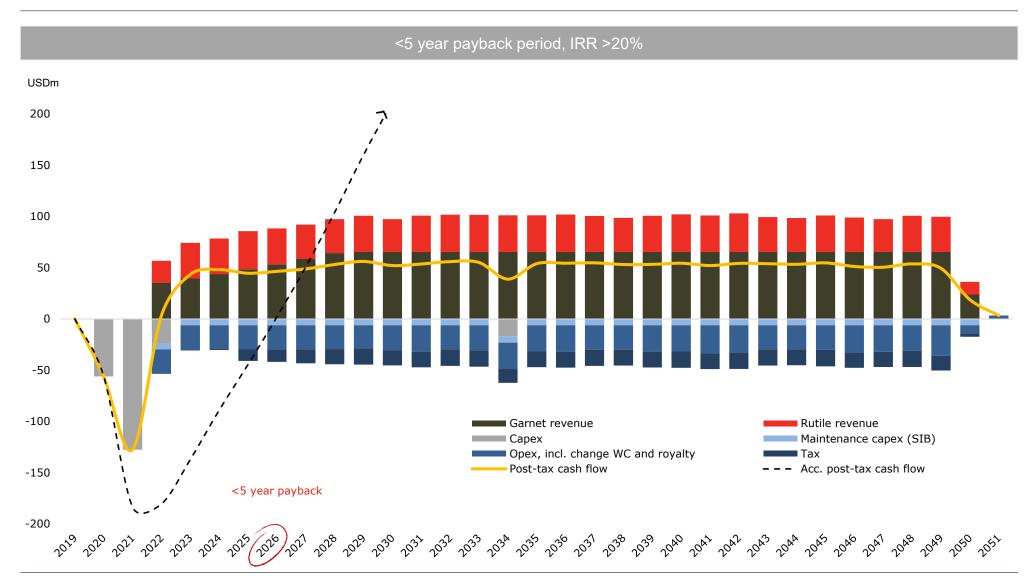
| Output              | Value       | Unit  |
|---------------------|-------------|-------|
| Pre-tax NPV @ 8%    | 332         | USDm  |
| Pre-tax IRR         | 23.8%       | %     |
| Life of mine        | 29          | years |
| Payback period      | Less than 5 | years |
| Post-tax NPV @ 6.8% | 305         | USDm  |
| Post-tax IRR        | 20.8%       | %     |

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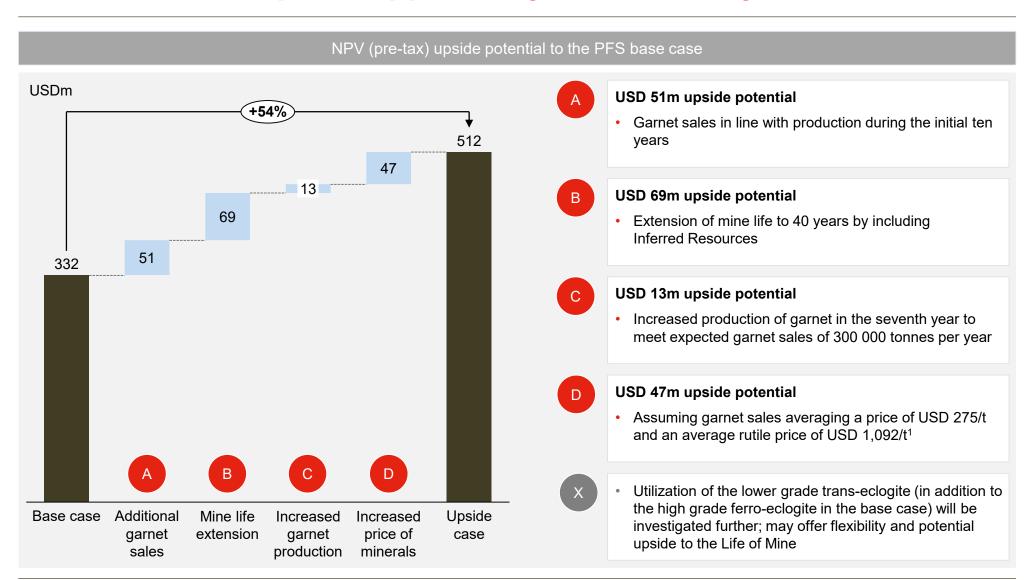


# **Attractive long term cash flow**



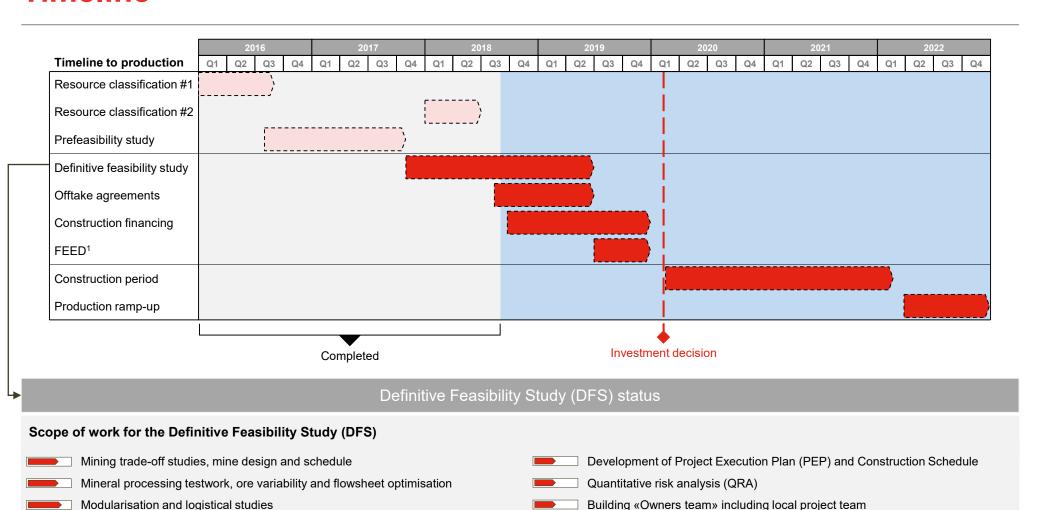


# Base case with upside opportunity and flexibility





# **Timeline**



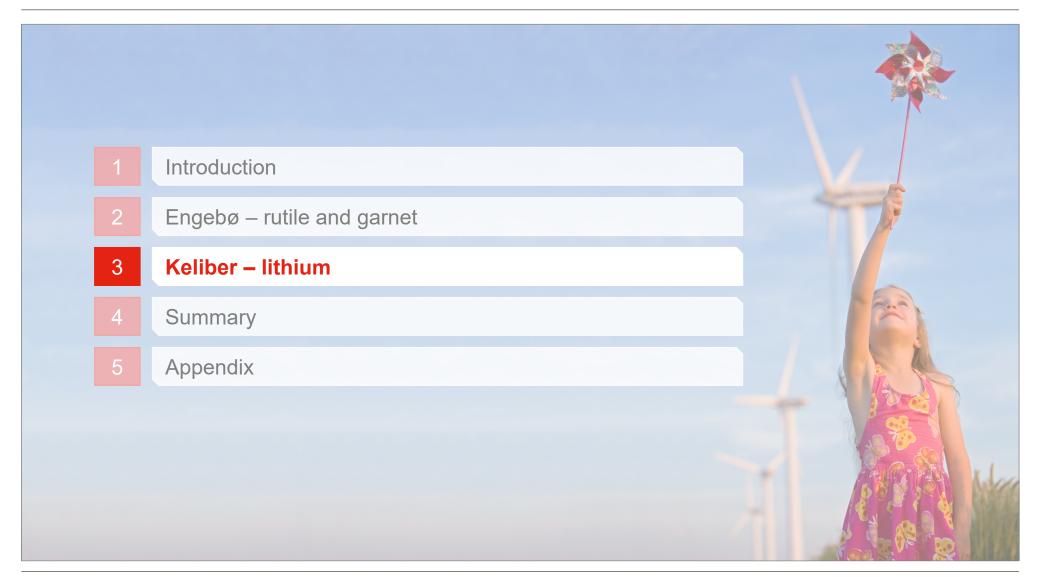
Cooperation and anchoring with local society



Procurement strategy and procurement operating plan

Multi-disciplinary design and engineering work

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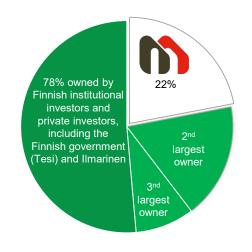
# Substantial value-add from PFS to DFS

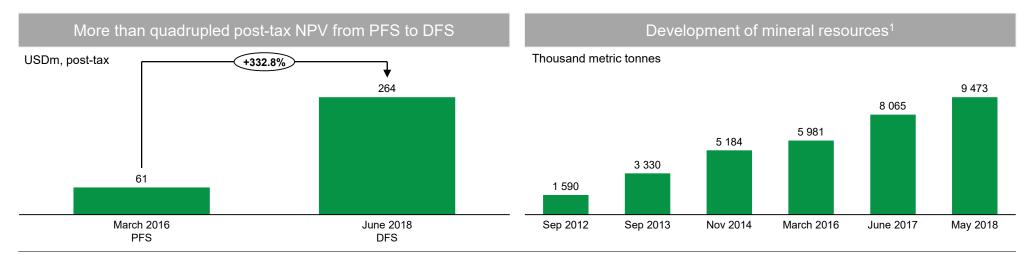
### Solid project economics

- · Aiming to be the first European company to produce high-purity lithium carbonate from its own ore
- Six deposits in one of the most significant lithium bearing areas in Europe
- Expected to produce ~11,000 tonnes of lithium carbonate per year

EUR/USD = 1.1746

- DFS in June 2018 returned a post-tax NPV@8% of USD 264m and an IRR of 22 %
  - Current lithium contract prices are higher than the level applied in the DFS, providing further upside from base case
- Project capex of USD ~300m to develop mine, concentrator and chemical plant







# Lithium demand driven by increased EV penetration

### Introduction to the lithium market

- Lithium is extracted predominantly from either hard rock mining (as is the case for Keliber) or from brine deposits
- Substantial amounts of raw material is required to meet the massive demand growth in the lithium-ion batteries (e.g. for electric vehicles)
- Expected lithium demand growth estimated at ~350% until 2026
- With the growing demand for lithium-ion batteries prices have increased substantially the last few years

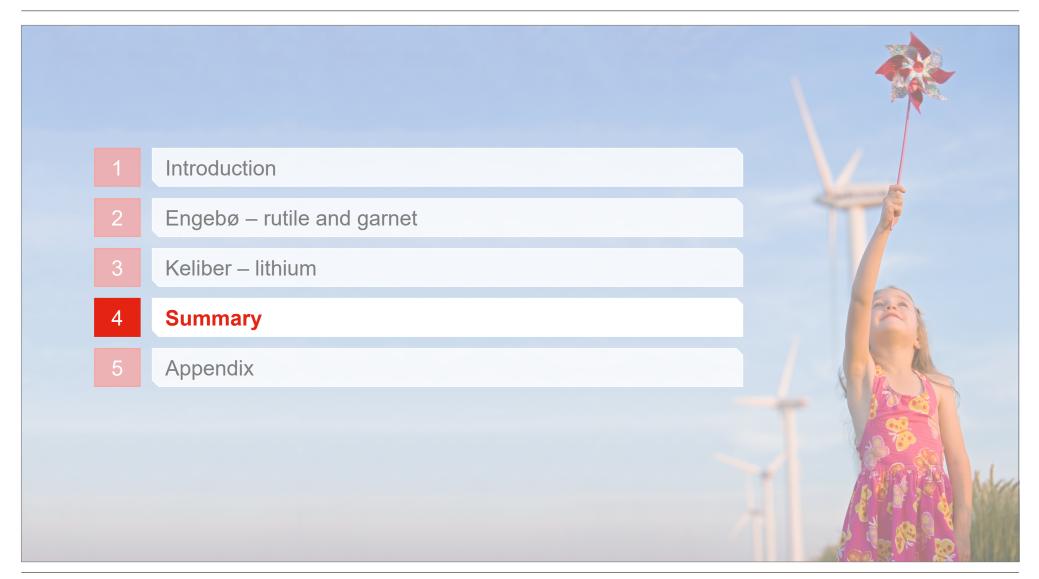
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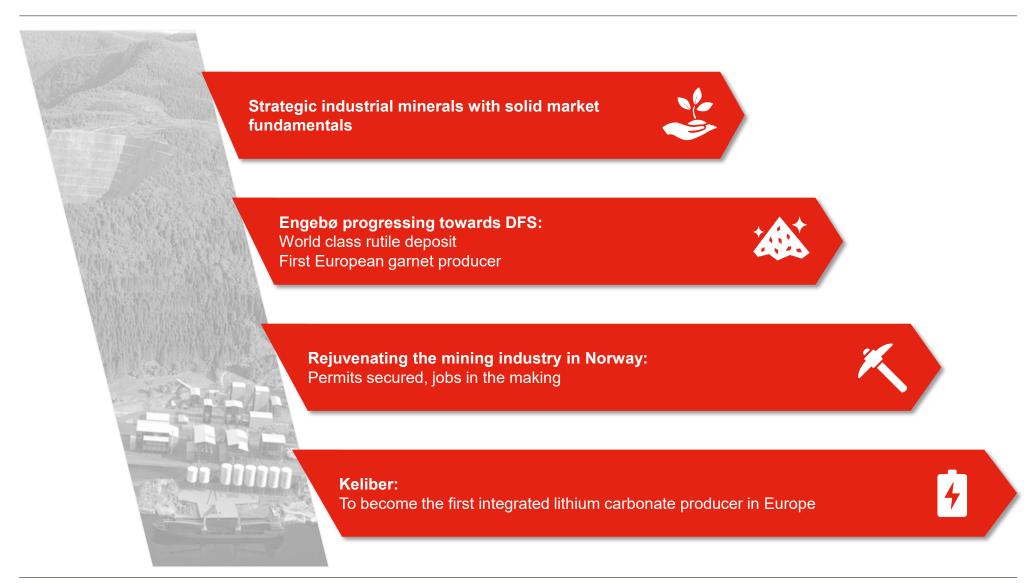


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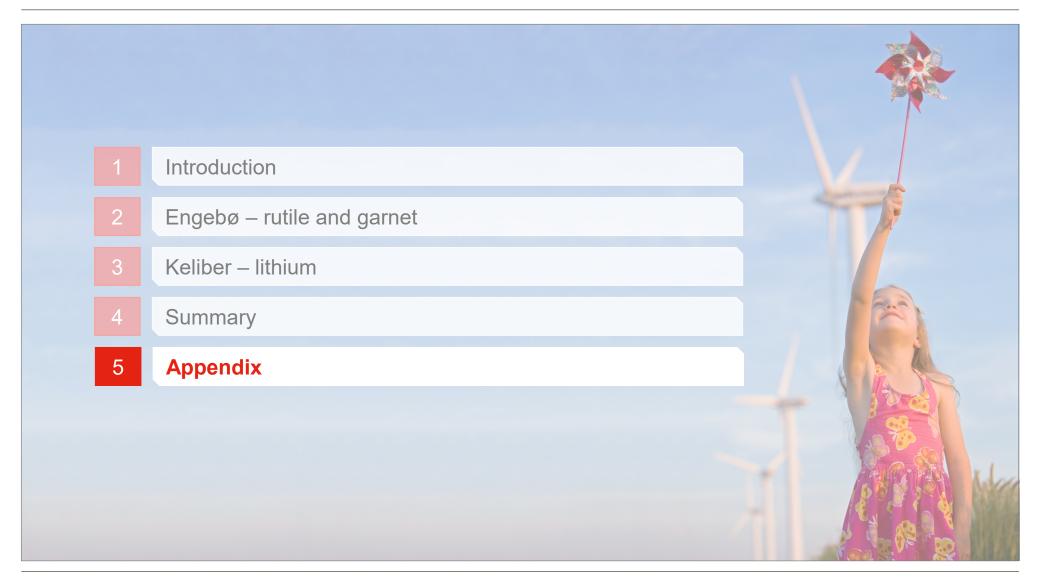


# Transforming strategic deposits to long-term shareholder value





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# Extensive testwork with industrial scale equipment

### PFS process testwork completed successfully



- Commercial products from rutile and garnet demonstrated by comprehensive testwork
- Achieved rutile recovery of approximately 60%
- Testwork undertaken by reputable third party industry specialists using industrial scale equipment

### Complete process plant layout established



- Flowsheet for rutile and garnet process based on substantial testing
- Ample power supply available from existing grid
- Process water supplied from nearby area
- Existing deep-water port enables easy transportation of construction materials



Source: Engebø PFS

# **Shareholder information**

### Shareholder overview (as of 8 October 2018)

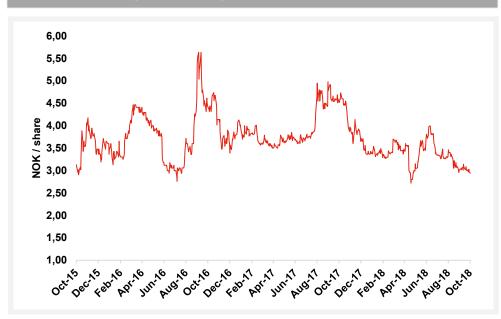
| #  | Shareholder               | Country       | # of shares | % of total |
|----|---------------------------|---------------|-------------|------------|
| 1  | Nordnet Bank AB (nominee) | Sweden        | 10,713,691  | 9.4%       |
| 2  | Nordea Bank AB (nominee)  | Finland       | 4,827,730   | 4.3%       |
| 3  | VPF Nordea Avkastning     | Norway        | 4,127,963   | 3.6%       |
| 4  | Citibank, N.A. (nominee)  | United States | 2,797,432   | 2.5%       |
| 5  | Nordnet Livsforsikring AS | Norway        | 2,716,518   | 2.4%       |
| 6  | B-L Holding Company       | United States | 2,579,620   | 2.3%       |
| 7  | Danske Bank A/S (nominee) | Denmark       | 2,221,546   | 2.0%       |
| 8  | Adurna AS                 | Norway        | 1,687,000   | 1.5%       |
| 9  | Naturlig Valg AS          | Norway        | 1,625,000   | 1.4%       |
| 10 | Dybvad Consulting AS      | Norway        | 1,572,782   | 1.4%       |
| 11 | Viola AS                  | Norway        | 1,562,380   | 1.4%       |
| 12 | Lithinon AS               | Norway        | 1,405,977   | 1.2%       |
| 13 | Knut Fosse AS             | Norway        | 1,363,846   | 1.2%       |
| 14 | Magil AS                  | Norway        | 1,350,000   | 1.2%       |
| 15 | Infosave AS               | Norway        | 1,296,026   | 1.1%       |
| 16 | Ove Klungland Holding AS  | Norway        | 1,212,646   | 1.1%       |
| 17 | Cross AS                  | Norway        | 1,201,242   | 1.1%       |
| 18 | Olav Birger Sletten       | Norway        | 1,124,600   | 1.0%       |
| 19 | Snati AS                  | Norway        | 1,022,672   | 0.9%       |
| 20 | Oddmund Holmefjord        | Norway        | 861,899     | 0.8%       |
|    | Other shareholders        |               | 66,226,989  | 58.4%      |
|    | Total shareholdings       |               | 113,450,468 | 100.0%     |

### Key shareholder information

| Current # of shares outstanding: | 113 450 468 |
|----------------------------------|-------------|
| Share price (as of 8 Oct 2018):  | NOK 2.94    |

Market capitalisation<sup>1</sup>:

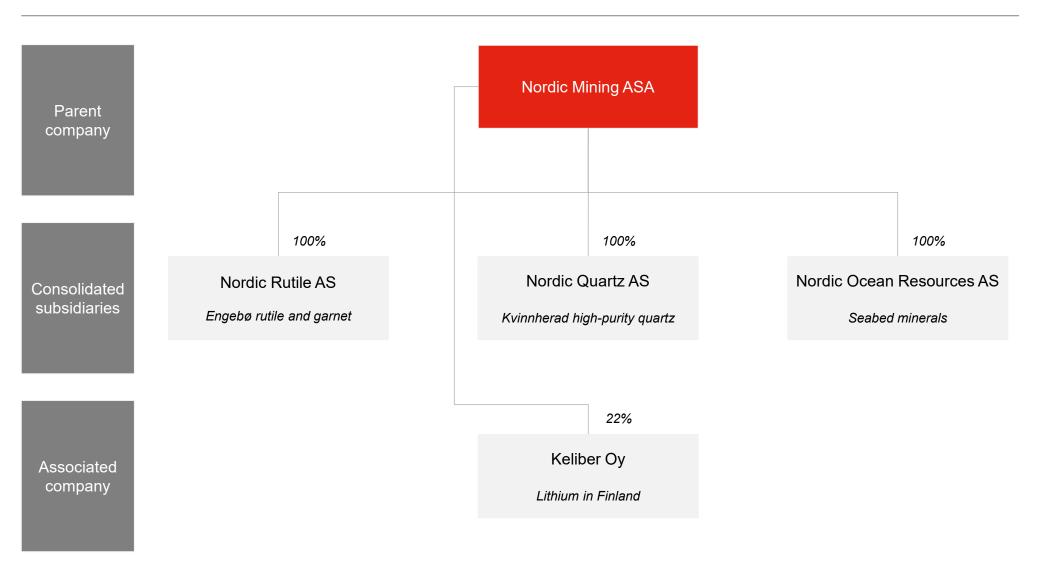
### Share price development Oct 2015 - Oct 2018





USD ~40m

# **Corporate structure**





# Appendix

# **Historical financials**

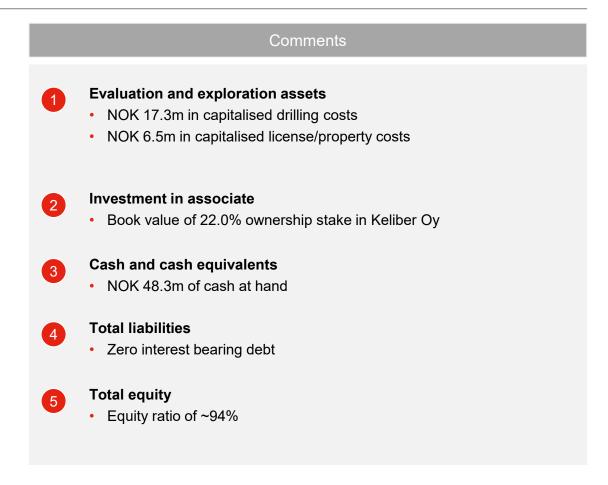
| Income Statement (NOKm)         | YTD 2018 | FY 2017 |
|---------------------------------|----------|---------|
| Payroll and related costs       | -4.6     | -10.9   |
| D&A                             | -0.1     | -0.2    |
| Other operating expenses        | -21.1    | -25.2   |
| EBIT                            | -25.8    | -36.2   |
| Share of result of an associate | -3.8     | 0.5     |
| Financial income                | 0.2      | 0.3     |
| Financial cost                  | -0.2     | -0.2    |
| Result for the period           | -29.6    | -35.6   |

| Cash Flow Statement (NOKm)                         | YTD 2018 | FY 2017 |
|--|----------|---------|
| Net cash used in operating activities              | -25.3    | -39.0   |
| Acquisition of licenses                            | -1.1     | -0.3    |
| Investment in exploration and evaluation of assets | -2.3     | -0.1    |
| Investment in associate                            | -        | -11.5   |
| Net cash from investing activities                 | -3.4     | -12.0   |
| Share issuance                                     | 59.6     | 6.9     |
| Transaction costs, share issue                     | -4.2     | -0.4    |
| Repurchase non-controlling interest                | -        | -0.1    |
| Net cash from financing activities                 | 55.4     | 6.4     |
|  |          |         |
| Net change in cash                                 | 26.8     | -44.6   |
| Beginning cash balance                             | 21.5     | 66.1    |
| Ending cash balance                                | 48.3     | 21.5    |



# Balance sheet with no interest bearing debt

| Balance Sheet (NOKm)              | Q2 2018 |
|-----------------------------------|---------|
|                                   |         |
| Evaluation and exploration assets | 25.0    |
| PP&E                              | 0.1     |
| Investment in associate 2         | 24.5    |
| Total non-current assets          | 49.7    |
|                                   |         |
| Trade and other receivables       | 3.7     |
| Cash and cash equivalents         | 48.3    |
| Total current assets              | 52.0    |
| Total assets                      | 101.7   |
|                                   |         |
| Total liabilities 4               | 6.6     |
| Shareholder equity 5              | 95.1    |
| Total liabilities & equity        | 101.7   |

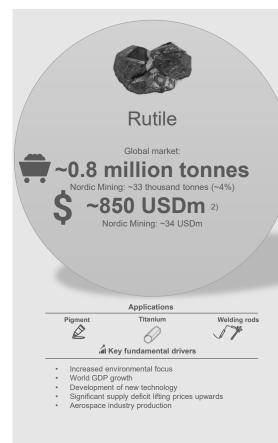


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Source: Company financial report

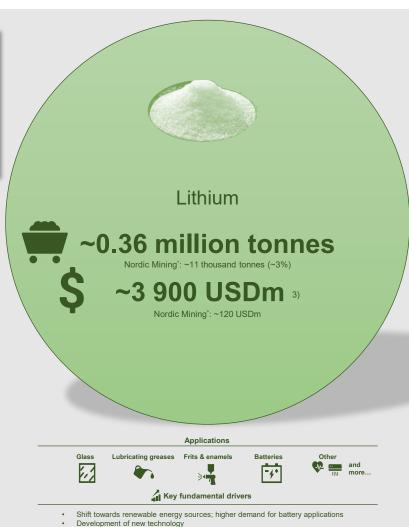
# Large markets for Nordic Mining to capture







- Strong growth in waterjet cutting markets
- Consumption risen five-fold last 20 years





### Overview of mineral assets<sup>1</sup>

### **DFS** in progress

### Engebø – rutile and garnet

- One of the world's largest rutile and garnet deposits and will establish Nordic Mining as a long-term supplier of high grade rutile and garnet products
- Acquired the rights<sup>2</sup> for the Engebø deposit in 2006

### Financing stage

### Keliber – lithium (22% ownership)

- Keliber Oy is a Finnish mining company with an objective to produce high-purity lithium carbonate for the international lithium-ion battery market
- Nordic Mining ownership stake reduced from 68% since 2008 to 22% currently

### Scoping stage

### Kvinnherad – quartz

- Quartz deposit that can be processed to high purity qualities similar to the best on the market
- Secured the exclusive rights<sup>3</sup> for the investigation and development of the quartz deposit in 2011
- An independent scoping study was carried out in 2012, drilling program in 2015 and JORC resource classification in 2016



Rutile



Garnet



Lithium



Quartz

- Rutile is composed of titanium and oxygen, and is a titanium dioxide (TiO<sub>2</sub>). Rutile has among the highest refractive indices of any known mineral. Natural rutile is often found as deep reddish brown crystals
- The Engebø garnet, which is almandine, is composed of iron, aluminum, oxygen and silicon
- Lithium is a silver white metal that belongs to the alkali metal group. It is the lightest of all metals and so soft it can be cut with a knife. Lithium is highly reactive and never occurs freely in nature, but only appears in compounds
- Quartz is a hard mineral composed of silicon and oxygen (SiO<sub>2</sub>). Common quartz is white (milky quartz) or colorless (rock crystal). Quartz also occurs in a number of other colors

