

Engebø Rutile and Garnet



TZMI 2022, Singapore

Ivar S. Fossum, CEO November 2022



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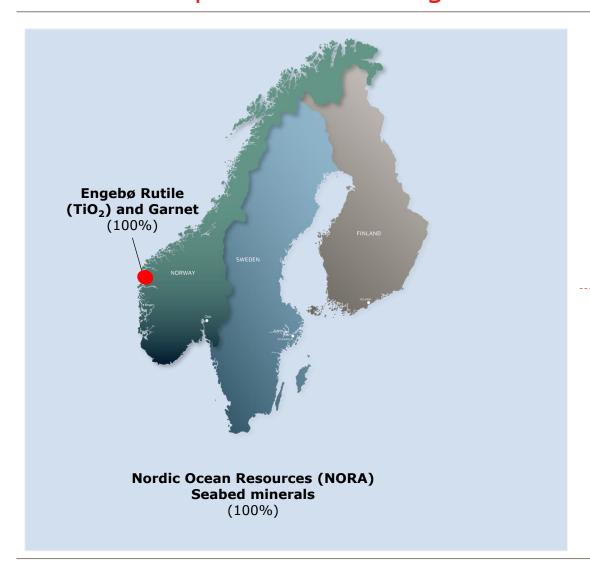
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Sustainable production of high-end industrial minerals and metals





Titanium



Garnet



Environmentally responsible



Positive impact on communities



Safe and healthy work environment



R & D projects



Alumina

Qualification of patented technology for green alumina production with integrated CO₂ consumption

Partners:









































NorGiBatF

Battery production

Multi discipline research project with focus on critical steps of big scale battery manufacturing.

Partners:













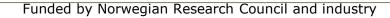














Building a Norwegian sustainable industrial company to deliver critical minerals

Fully permitted high-quality asset with low cost and industry-leading ESG profile



Engebø Rutile and Garnet project in Norway to produce for 40 years

Broad push from Norwegian industry, politicians and local communities for the sector – Engebø project will create more than 250 jobs¹



The Confederation of Norwegian Enterprise (NHO), Confederation of Trade Unions (LO), and the Norwegian Mineral Industry and Confederation

Strong political drive in the EU and Western world to increase security of supply



EU has released the Critical Raw Materials Act (Sep-22), and intend to establish Strategic Partnership with Norway on raw materials and batteries

Building a Norwegian industrial company by developing a green and sustainable value chain to deliver critical minerals to Europe and international markets



1) Environmental Impact Assessment, NIBR

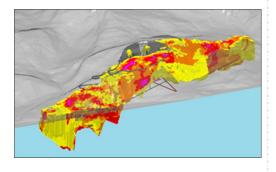
15 years of progress at the Engebø project, positioned for the next ~40 years

2006

Project initiated



2006: Acquired rights to the Engebø deposit



2007 - 2021

Studies, regulatory, permits and stakeholders









2009: Scoping Study completed

2015: Zoning plan and environmental permits granted

2016: Resource Estimation completed

2017: Prefeasibility study completed

2020: Defined Feasibility Study ("DFS") completed

2021: Updated DFS ("UDFS") with improved

economics and ESG footprint

Defining project and securing regulatory and environmental permits under some of the strictest standards globally

2022 and onwards

Construction and long-term value-creation









2022: Final approval of Operational License

2022: Keliber stake sold for EUR 46.9 million

2022: Royalty Agreement with Orion Resource Partners

2022: New USD 100 million senior secure bond issued

2022: Full rutile production the first 5 years sold

2022: Nordic Mining's mining license confirmed by appeal court

USD 211 million funding secured – positioned for ~40 years of production and value-creation





Health & Safety

Key Performance indicator	Q3	Year to date	Target
Lost time injuries (1/1 million working hours)	0	0	<2,5 ¹
Total recordable injuries (1/1 million working hours)	0	0	<8,8 ¹
High potential incidents	1	1	0
Low potential incidents ²	12	30	-



HSE status

- No injuries in Q1-Q3
- No incident when drilling into area with old explosives
- The Norwegian Labor Inspection Authority (Nw. Arbeidstilsynet) has carried out a document inspection of Nordic Rutile AS regarding the asbestos case. The result of the inspection was "no violation of the regulations"
- 4 risk workshops carried out

Incidents

- Dump truck incident
 - The dump truck partially overturned when reversing
 - No injuries to personnel, only minor injuries to truck
 - Investigation revealed a need to mark edges more clearly

Favorable location with available infrastructure

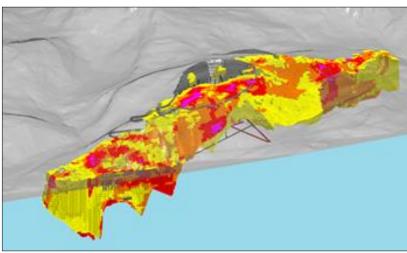
Location highlights Norway, a politically stable jurisdiction Location by the North Sea provides advantageous logistics Road access and two local airports Deep-sea, ice-free quay on site Renewable hydro power Power supply readily available at site 40 minutes from Førde regional centre Region with skilled, industrial labor Maintenance and service vendors available in the region





Large deposit with unique characteristics





Mineral resources (2% TiO₂ cut-off)

	Tonnes (Mt)	TiO ₂ grade (%)	Garnet grade (%)
Measured (M)	29.2	3.60	44.5
Indicated (I)	104.0	3.48	43.9
Total M&I	133.2	3.51	44.0
Inferred	254.1	3.15	41.3

Ore reserves

	Tonnes (Mt)	TiO ₂ grade (%)	Garnet grade (%)
Open Pit			
Proven (P)	19.33	3.56	44.25
Probable (Pr)	10.33	3.29	44.45
Total P⪻	29.65	3.47	44.32
Underground			
Proven (P)	2.55	3.78	44.92
Probable (Pr)	24.75	3.66	44.42
Total P⪻	27.30	3.68	44.47

133 mt M&I Mineral resources¹

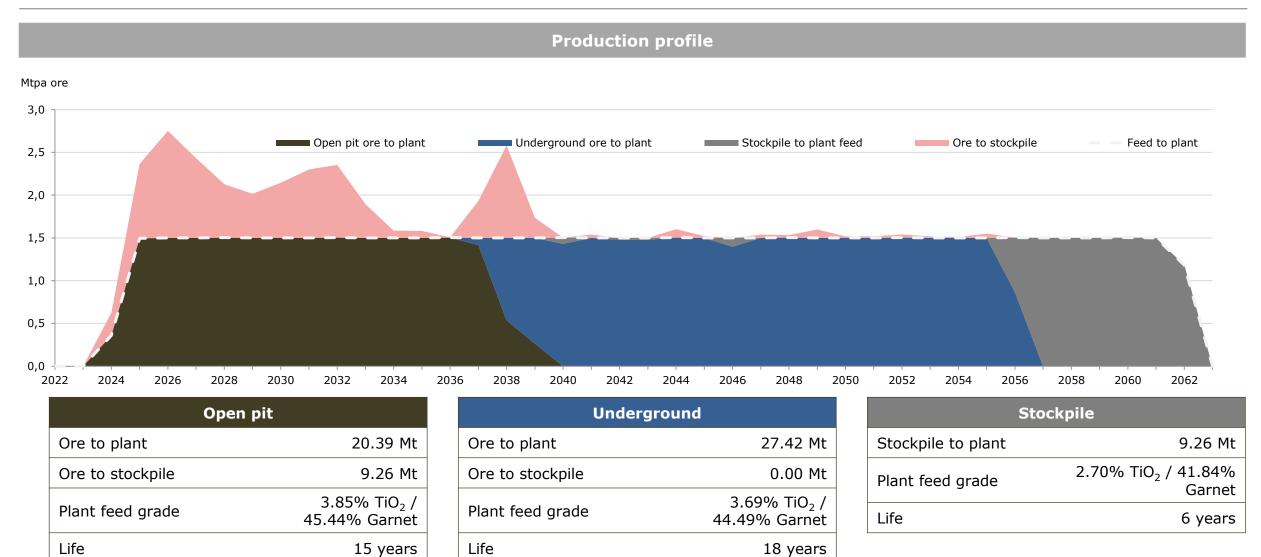
<5 years
Payback period

USD 453m Post-tax unlevered NPV8

39 years Life of Mine

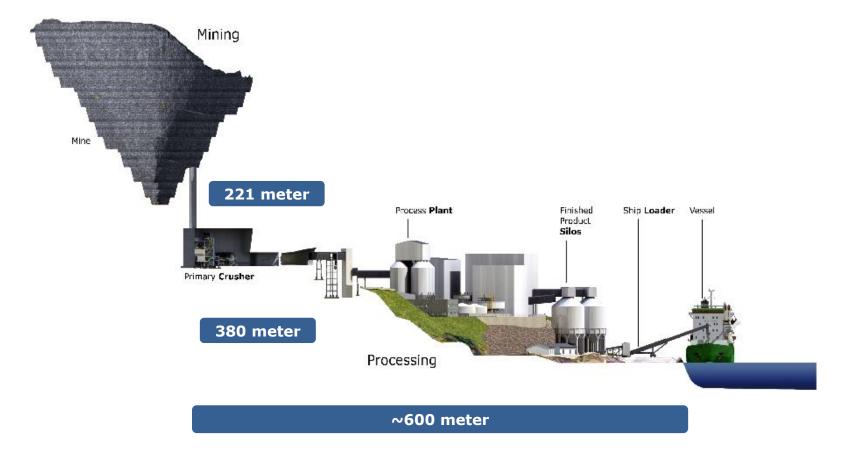


39 years mine-life with rapid ramp-up





Mature project with efficient design and engineering solutions



- Short haulage distance from blast area
- Vertical shaft from open pit to underground primary crusher
- Shaft entrance adjusted when progressing mining in open pit

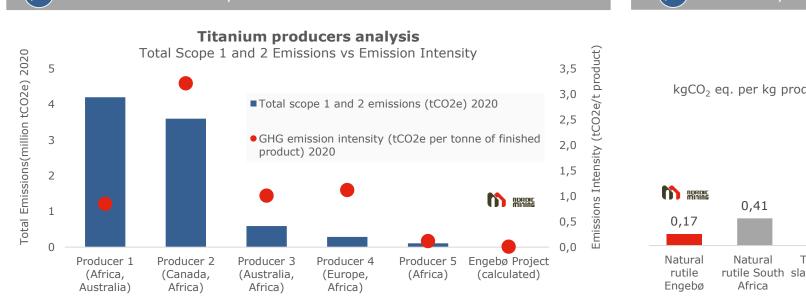
Location and topography provide for short ore haulage





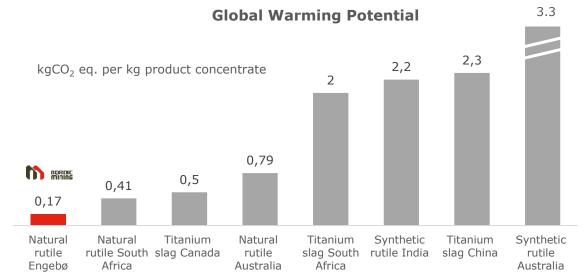
World's most climate friendly titanium feedstock?

Industry leader on GHG emissions¹





Life Cycle Analysis proves superior rutile product²





Zero-emission process plants due
to use of hydro
electric power



Low energy consumption due to tight infrastructure and efficient design



Emissions
reduced by 85%
due to use of
electrical dryers



Work for zero
emissions and
phase out fossil
fuel processes



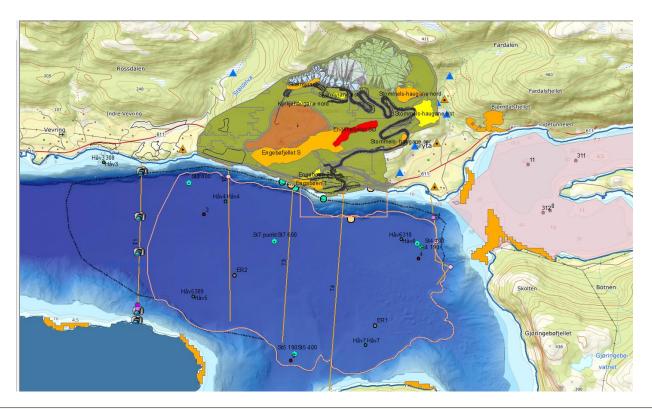
Substantially lower GHG emissions from superior natural rutile product



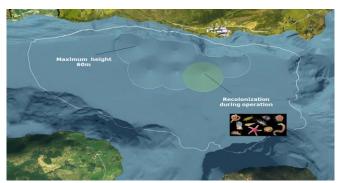
Focus on biodiversity

New methods for continuous tracking of biodiversity

- As a response to The UN Convention on biodiversity 'The Post-2020 Global Biodiversity Framework', the Engebø project has a goal of net gain for biodiversity over the Life of Mine
- A Biodiversity Action Plan is being developed in collaboration with DNV to implement systems to avoid, reduce, restore and compensate loss of biodiversity from our activities to achieve project goals





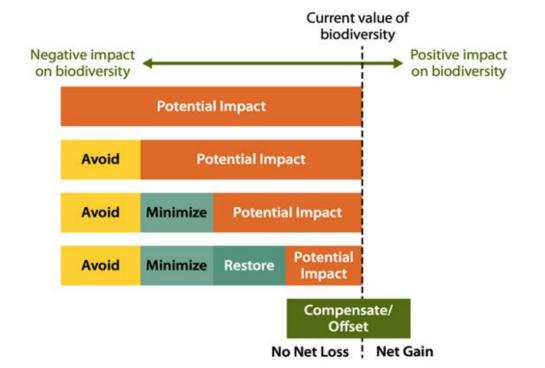


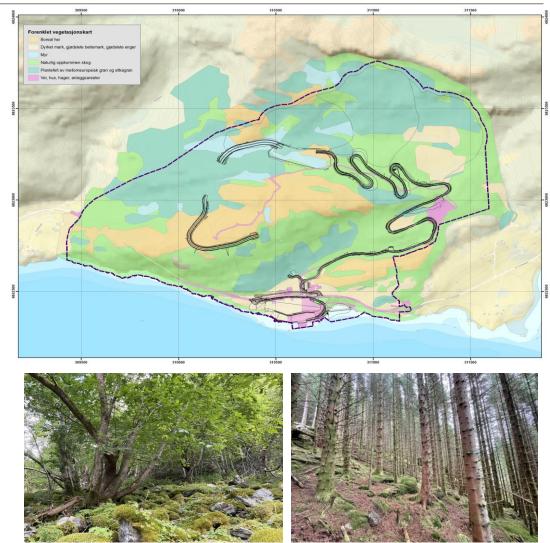




Possible to reach net-gain for biodiversity?

- Mapping and categorization of redlisted species, natural, modified and critical habitats
- Different habitat and species calls for different strategies
- Plans and systems to avoid, minimize, restore and compensate
- · Actions initiated for construction phase







on Mining & Metals

Preparatory groundworks progresses according to plan



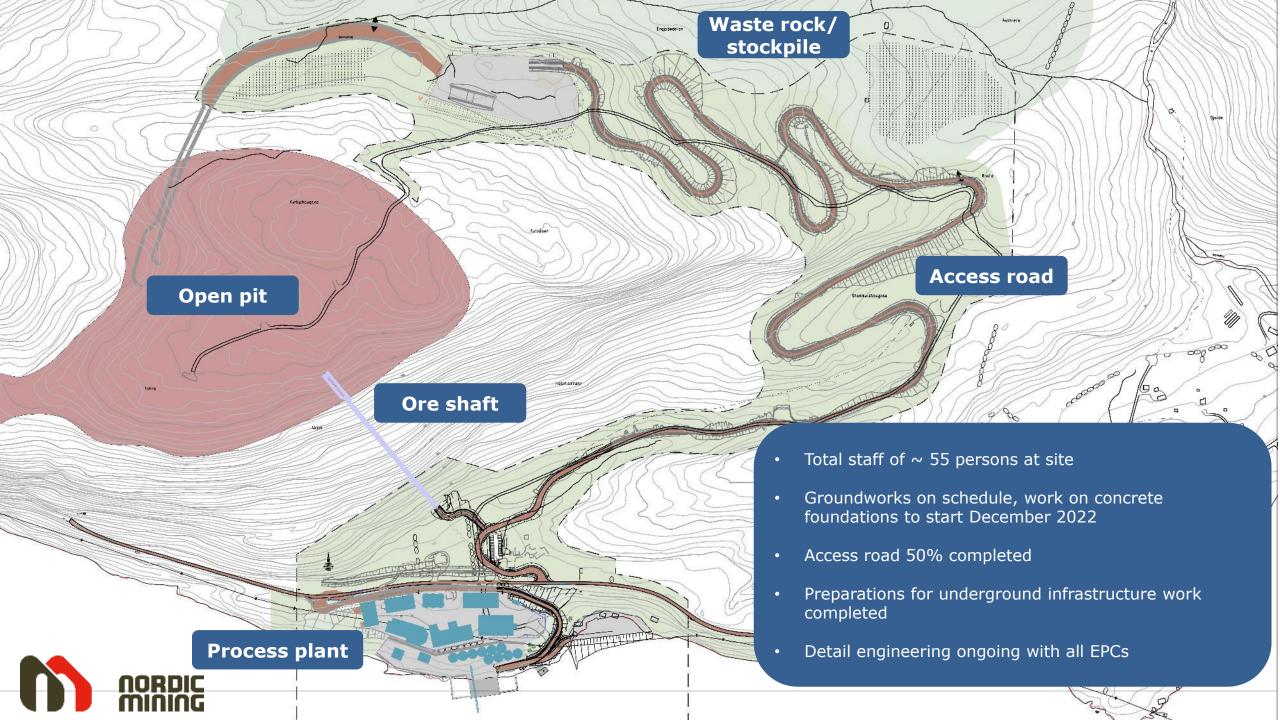






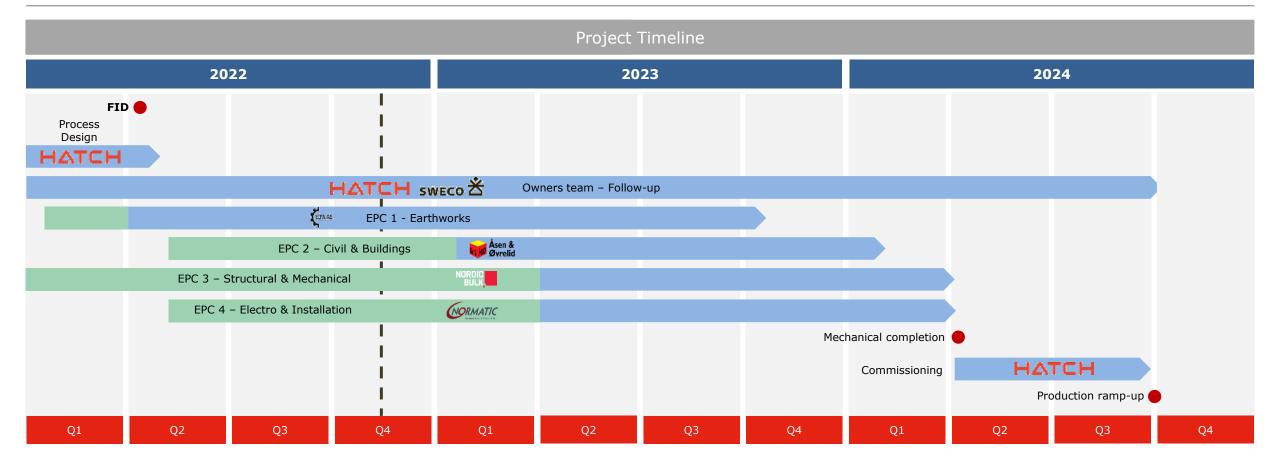






Engebø Rutile and Garnet

Early construction started H1'22 and on track to produce in 2024



Detail Engineering

Detail Engineering and/or construction at site





Material funding progress in 2022 from large financial and strategics partners

-OCIOO RESOURCE

lwatani

USD 50m royalty (non-dilutive)

UDS 5m equity commitment

Binding 5 year off-take agreement

USD 19m equity commitment¹

Nordic Bond

USD 100m bond raised

Global investor distribution: 45% US, 26% Scandinavia, 24% UK and 5% Central Europe

EPC partners

Consortium of local EPC partners

USD 16m Convertible Loan – used to fund acquisition of main properties and early construction work

USD 190m from large financial and strategic partners during 2022

EUR 46.9m in equity through sale of stake in Keliber

Extensive technical, commercial, legal and financial review²



















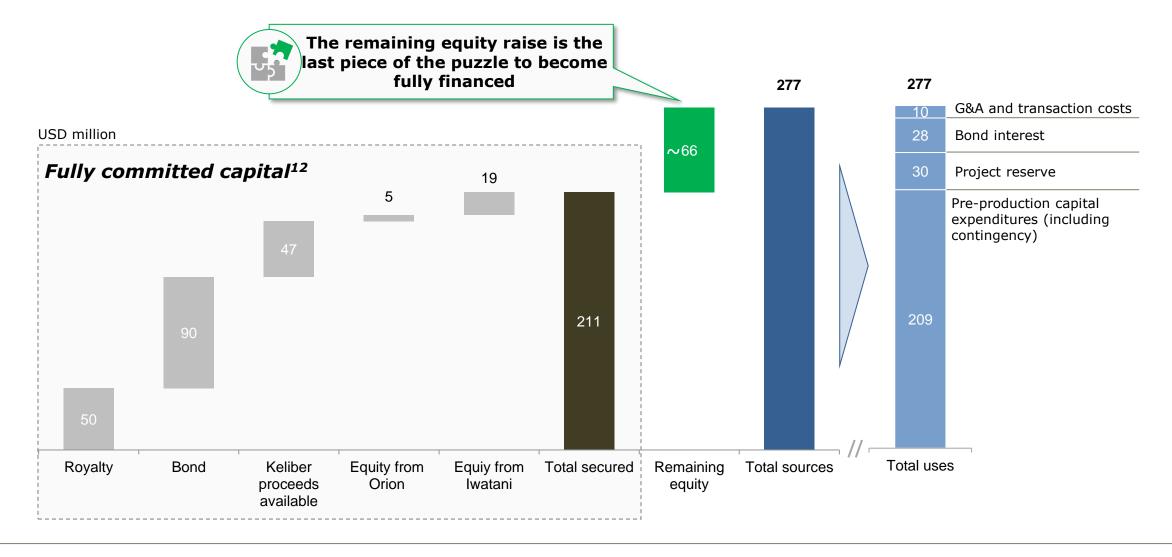






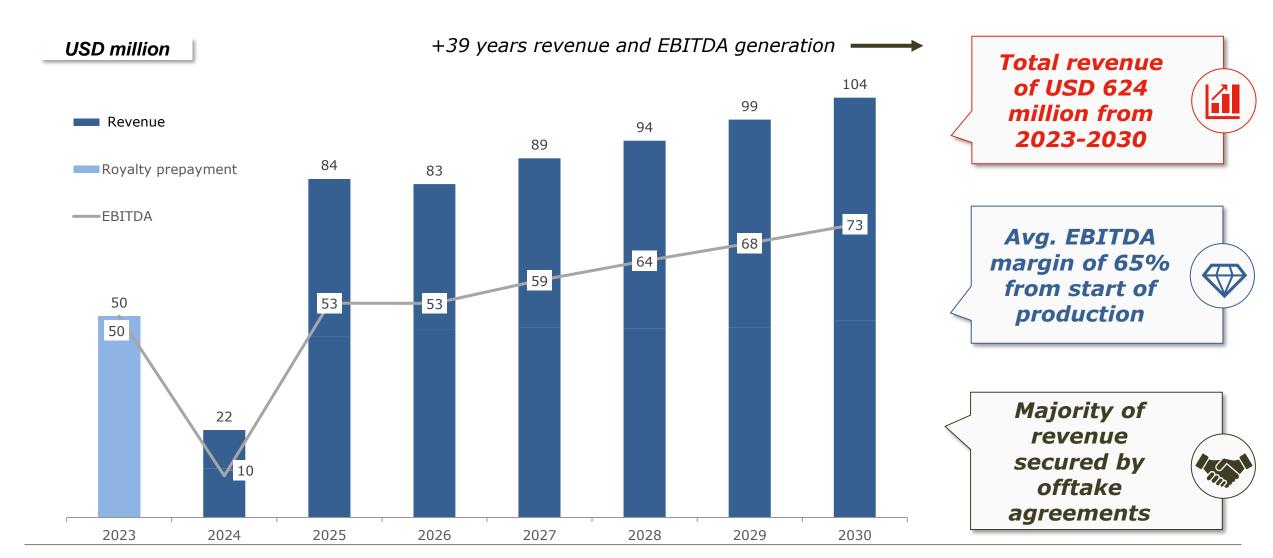


Significant progress on financing in 2022 – less than 25% in equity remaining





Forecast for solid revenue and low cost, provides substantial EBITDA¹





Significantly improved economics, NPV8 increased by > 70% since UDFS

USD 453m

Unlevered post tax NPV₈

24.4% IRR

Unlevered post tax

USD 62m

Avg. annual EBITDA '25-'30³

USD 50m

Avg. annual free cash flow '25-'30³



LOCATION

Stable and supportive policies towards mining operations

Attractive shipping logistics to Europe



RESOURCE

133.2 Mt measured and indicated resources¹ (254 Mt inferred future resources)

3.51% TiO₂ grade and 44% garnet grade¹

~39-year LoM with 1.5 Mtpa ore feed to plant)



INFRASTRUCTURE

Excellent infrastructure with access to renewable hydroelectric power

Good access to regional skilled/industrial labor and maintenance/service vendors



PROJECT READINESS

Fully permitted project
With strong fundamentals
confirmed in UDFS

Fully de-risked and efficient project design (extensive test work carried out)



- Resource estimates (June 2018) completed by Competent Person Adam Wheeler, corresponding to the guidelines of the JORC Code (2012 edition)
- 2) Defined as CAPEX through 2024 3) Assumes LOM average realized prices of 1,443 USD/t and 311 USD/t for rutile and garnet, respectively
 3) EBITDA and FCF accounts for 11% of revenue being paid as royalty to Orion

