Powering the transition to a cleaner future

www.etech-resources.com



EUREKA REE Project, Namibia

CORPORATE PRESENTATION - DETAILED Sept 2022

E-Tech Resources are exploring for the rare earth elements necessary to drive the global transition to clean energy







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Technical Disclaimer

The technical and scientific information in this presentation has been reviewed and approved by Pete Siegfried, BSc. (Hons), M.Sc., who is a Consulting Geologist and a director of GeoAfrica Prospecting Services cc and has reviewed and approved the scientific and technical information in this presentation. Mr. Siegfried is a member of The Australasian Institute of Mining and Metallurgy (AusIMM) membership number: 221116 (CP Geology), and a Qualified Person for the purposes of National Instrument 43-101. Mr. Siegfried consents to the inclusion of this information for the presentation.

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Neodymium (Nd) is used to make <u>high strength & high-performance</u> neodymium magnets

Smart solutions to <u>clean</u> energy sourcing, and <u>efficient</u> power transmission, will be key to our future interconnectivity.

High-performance materials are essential for <u>reliable</u>
<u>e-mobility</u> and <u>renewable</u>
<u>energy generation</u>.

Nd is a key rare earth element (along with Praseodymium) to the <u>high-growth</u>, <u>hi-tech</u> markets that support a circular economy.

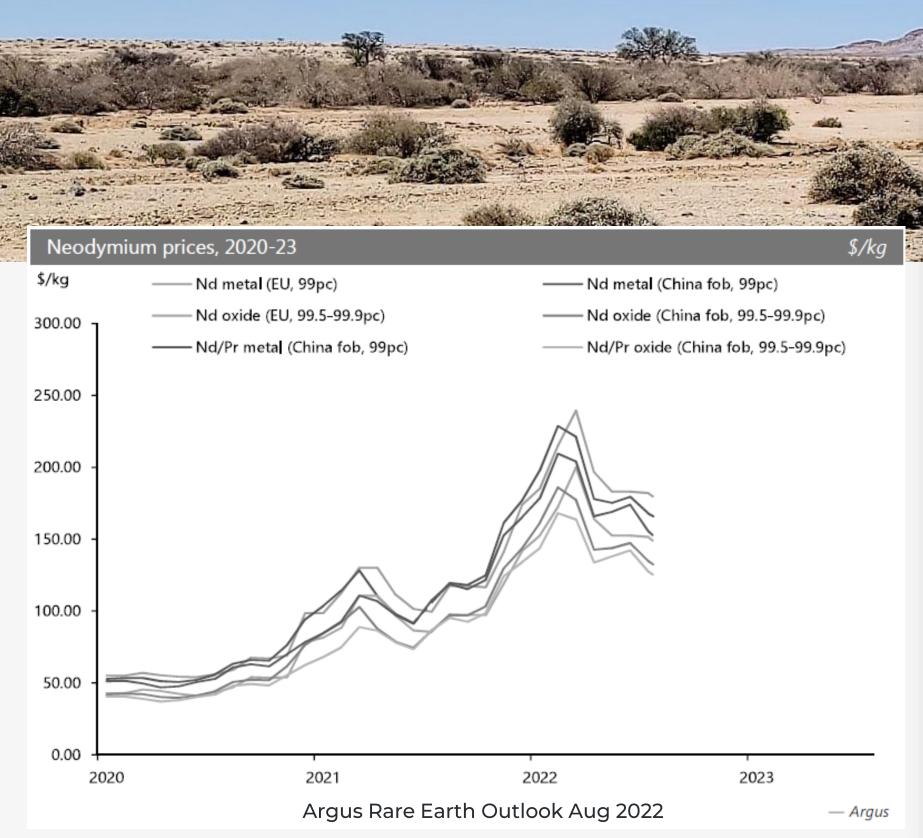
High-Strength Neodymium Magnets (NdFeB) are used in:

- Electric Vehicles (Full electric and hybrids)
- Wind Turbine generators
- Consumer Electronics
- Speakers
- Defence sector
- Conventional ICE Vehicles
- Other E Mobility
- Air Conditioning



INTRODUCTION

WHY NEODYMUM?



Nd & Pr

Price Increase



The REE magnet materials Nd and Pr have experienced more than 150% price increase over the last 2 years.

Anticipated deficit for REE magnet supply

- Increasing domestic demand in China
- Expected deficit of REE magnet material supply
- Complex and disruptable supply chains
- Monopolistic & opaque supply from China
- Underinvestment in ex-China value chains

High dependency on import from China

Opaque ESG compliance in China – manufacturers increasingly keen to track ethical sources of raw materials

REE Energy Metals Market Value



RARE EARTH METALS MARKET



REE METALS MARKET

\$20b

Nearly doubling in the next 5 years

REE MAGNET DEMAND

+50%

Demand increase in the next 5 years

The drivers are found in the strong demand ramp-up for

ELECTRICAL EV MOTORS

&
WIND TURBINES

GLOBAL REE
METAL & MAGNET
SUPPLY

+80%

Will still come from China

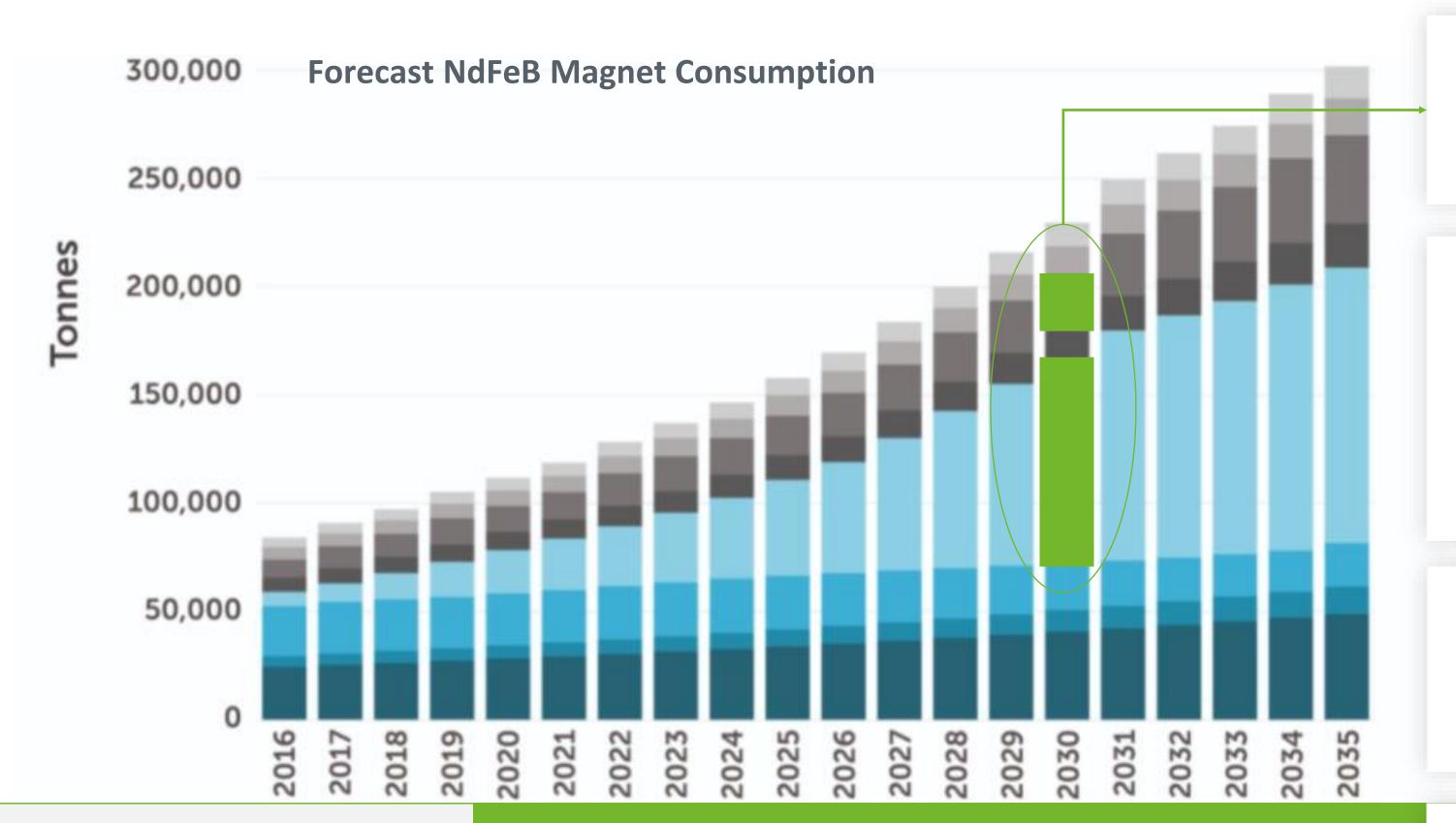
GLOBAL REE ORE MINING & PROCESSING

+60%

Will remain to originate from China







2030 120,000 T/Y

Projected demand of NdFeB for EV & Wind Turbines alone

EQUALS

60,000

NdPr Oxide

(@ 0.5kg NdPr Oxide / 1kg NdFeB metal) EQUALS

300,000

TREO

(@ 20% NdPr Oxide)

EQUALS 100X



Cracking Plants Units (@ 3000 t/y TREO,

as in development by SRC, Canada)

Consumer Electronics
Speakers
Conventional Vehicles
HEV, PHEV, EV
Other E Mobility
Other
Wind Turbines
Air Conditioning

'Other' includes MRI, elevator motor, magnetic separator, robotics and industrial applications.

Forecast

NdPr MAGNETS & APPLICATIONS

2030 Market Needs.

EQUALS 6,000

PMSG Wind Turbine Units

(@ 5t NdPr Oxide / 16 MW PMSG unit) -

30M

BEVs

(@ 1kg NdPr Oxide / 131 kW BEV motor)

NdFeB – High-strength Neodymium Magnets

EV – Electric Vehicle | BEV – Battery Electric Vehicle | PHEV - Plug-in Hybrid Electric Vehicle

NdPr – Neodymium Praseodymium

TREO – Total Rare Earth Oxide

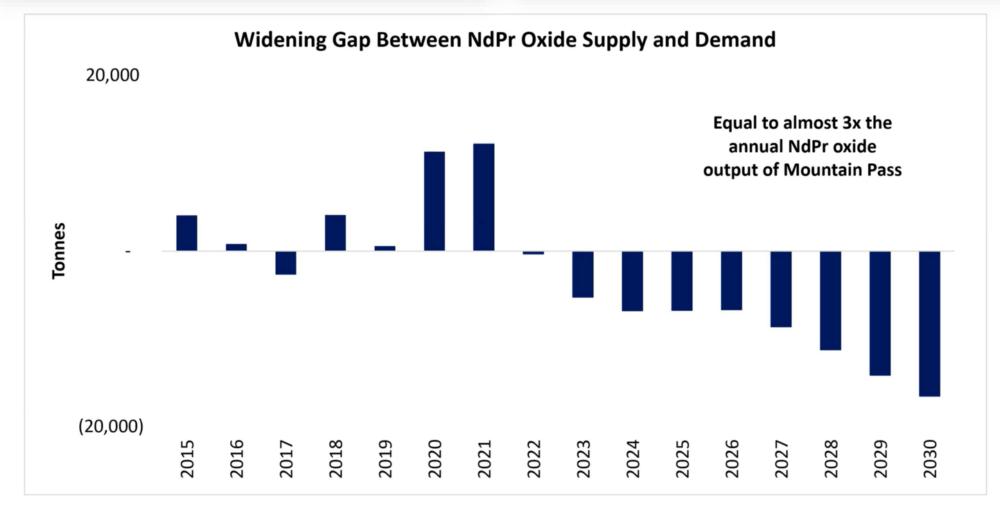
PMSG – Permanent Magnet Synchronous Generator

NdPr OXIDE

2030 Market Imbalance.

GLOBAL DEFICIT 50,000 _¬ NdFeB PM material by 2030

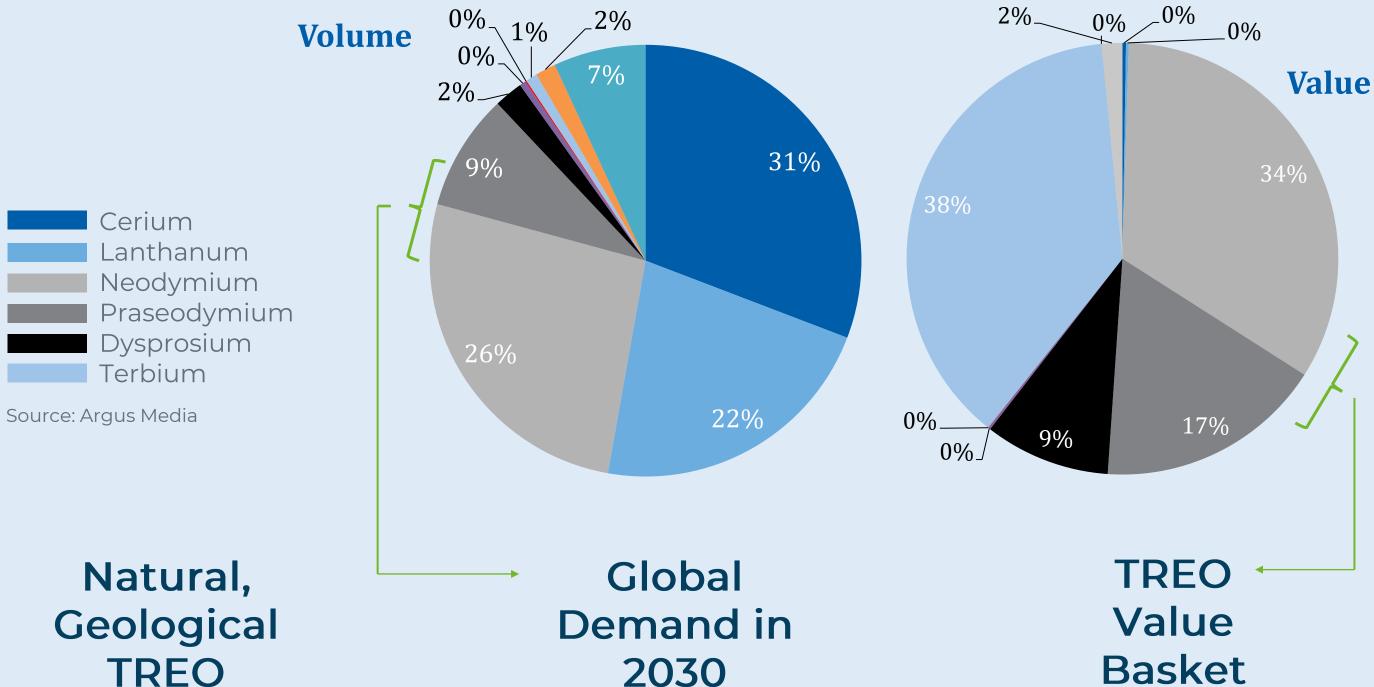
EQUALS 25,000 -NdPr Oxide (from new mining capacity)



* Supply = Production + Inventories

Source: Adamas Intelligence

Rare earth oxide demand by element (volume & value), 2030



TREO supply basket entails up to

25%

of Nd and Pr Origin

>35%

of TREO demand basket to be from Nd & Pr sources by 2030

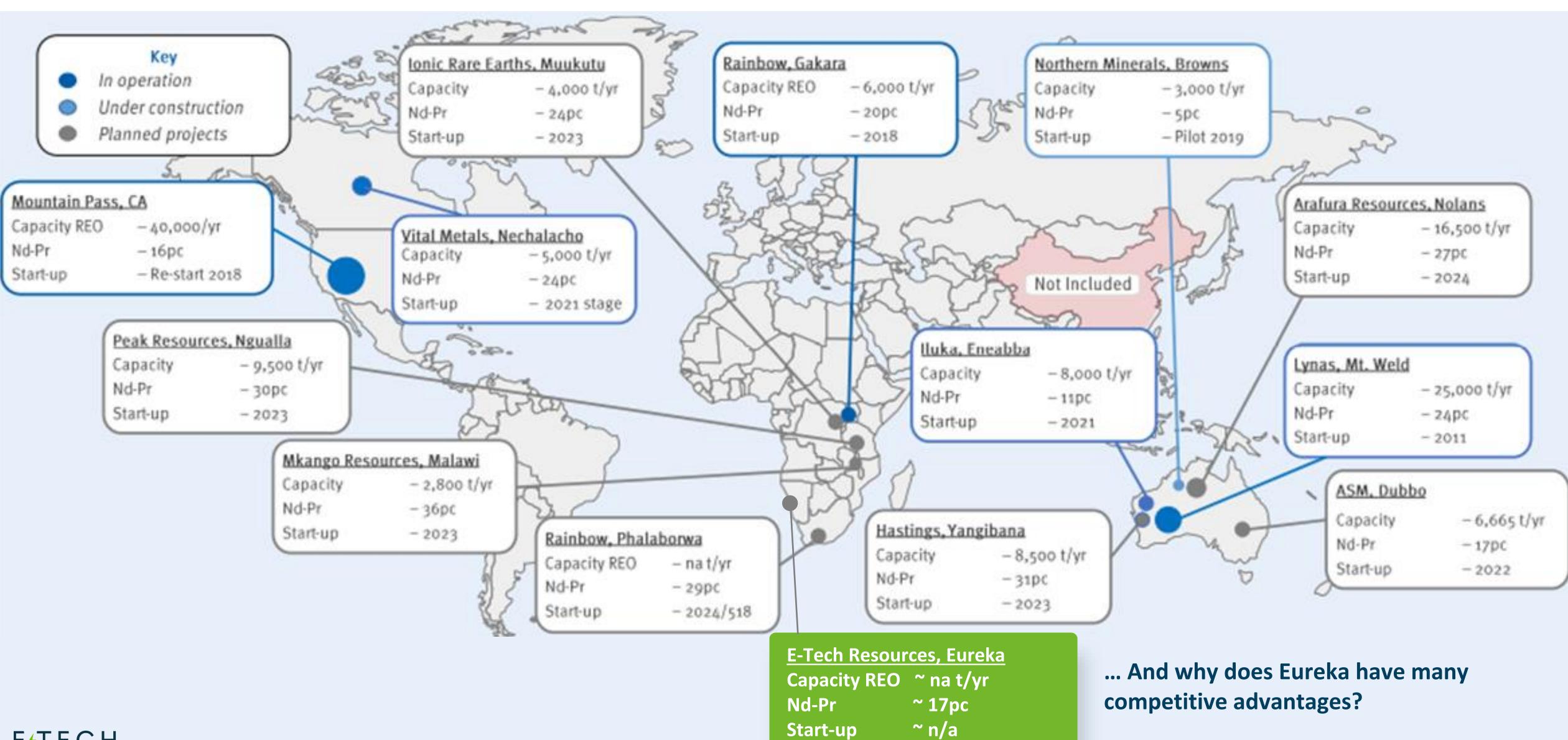
>50%

will stem from Nd and Pr compounds

(due to the demand for NdFeB PM for electrification & de-carbonization)

Demand growth with expected supply deficit & geopolitical concerns = high price = high value of NdPr

Global TREO Pipeline



Board & Management Team



JIM MEGANN

In addition to holding the position of Managing Director, Jim Megann is also an accomplished executive and business leader. He is a Director of Torrent Capital, a publicly traded investment issuer; Director of Antler Gold; Director of OARO; and a Director of Sona Nanotech, a nano technology developer currently listed on the Canadian Stock Exchange.



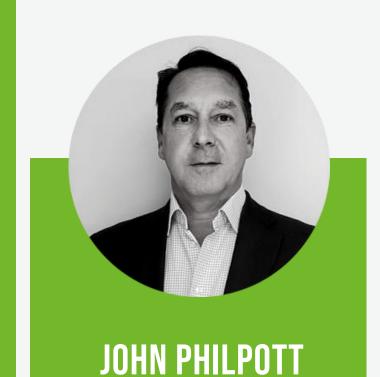
CFO CANADA **ROB RANDALL**

A contract CFO for a number of public companies including Torrent Capital, Antler Gold and Sona Nanotech. Rob has extensive financial experience working within many African countries overseeing all financial aspects of resource exploration and production activities.



PROF FRANCES WALL GEOLOGY, UK





HUMAN RESOURCES, CANADA



EXPLORATION, NAMIBIA

The management team have a proven track record in mineral exploration, REE process development and financing.



PARTNERSHIPS

Exploration > Mining > Processing







Exploration Drilling







& Mine Modelling

Resource Auditing Mineral & Metallurgical

Assay Testing

What are we currently targeting at Eureka?

Exploration Mining Beneficiation

Initial delineation of the deposit, eventual upscaling to beneficiation of concentrate

LOI with

SIC

SASKATCHEWAN
RESEARCH COUNCIL

Collaborate on process development for Rare Earth Cracking and Separation Read more

Cracking,
Separation &
Purification

Crack the concentrate, then separate to oxides

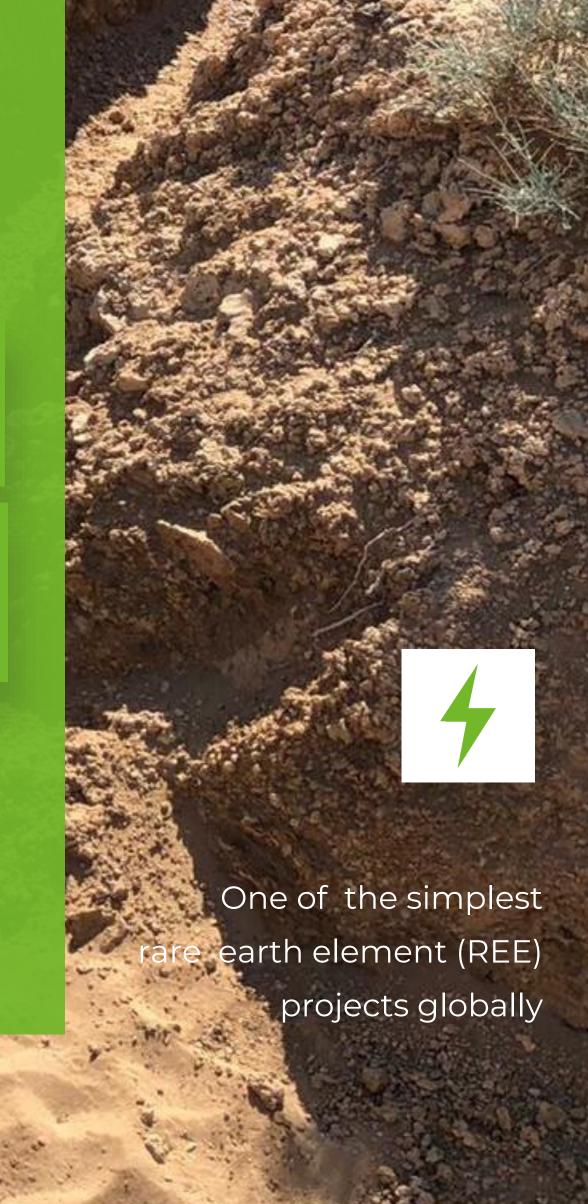
Metals
Processing
/ Making

NdPr metal

Alloying

Manufacturing

Sintered NdFeB into permanent Magnets



A Simple NdPr Project

Simple Mineralogy

- High grade TREO is predominantly contained in coarse grained monazite, hosted within numerous carbonatite dykes.
- In-situ average grade 4.8% TREO, as stated in maiden Inferred resource (NI43-101, Aug 2021).
- Additional exploration underway to assess overall footprint of the mineralization and increase tonnage.

Simple Operations

- Initial mechanized mining of dykes from open pits.
- Monazite beneficiated by low-cost physical methods only.
- No hazardous chemicals or expensive reagents required.
- Monazite concentrate recovered using off-the-shelf beneficiation equipment.





Simple Logistical Management

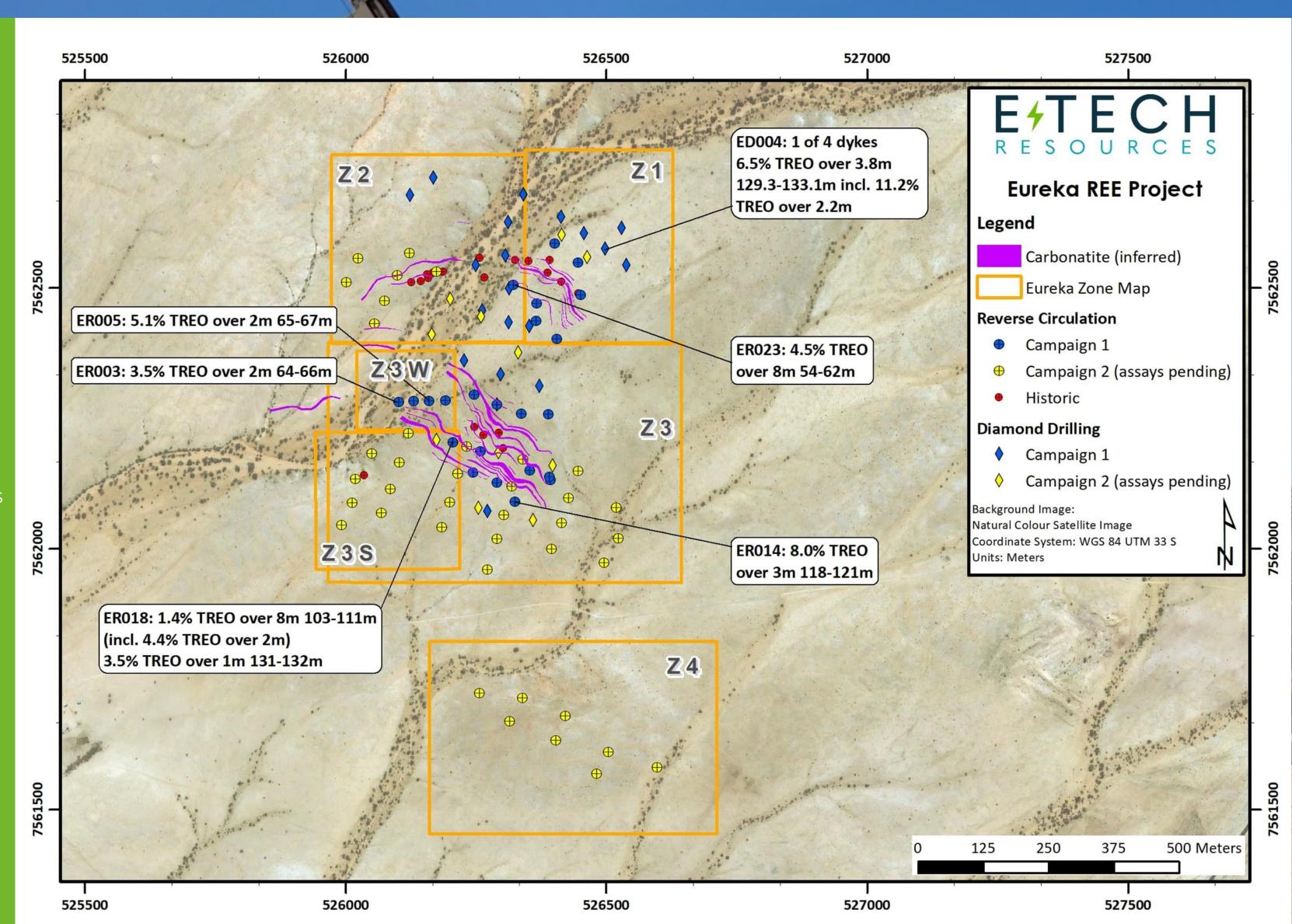
- Located in flat topography adjacent to the major highway.
- Direct road and rail connections to Namibia's largest commercial port.
- Amenable shipping handling due to low radioactive content in the monazite.
- Access to power and water.
 - Experienced Board and Management, in-country and with access to offtake partners.



+

EXPLORATION POTENTIAL

- Inset map of immediate exploration potential. Zones 1, 2, 3 & 4 in the south.
- Purple areas represent surface expression of carbonatitic dykes.
- The current mineral resource estimate from 2017 programme is marked by red collars to a max depth of 60m.
- Between Q4 2020 & Q2 2022 8000m diamond core (DD) drilling and 6000m of RC drilling diamond core drilling has been completed across 2 campaigns.
- Blue DD & RC collars are from Campaign 1 2021 where assays have been received & announced.
- Yellow collars are from Campaign 2 2022 where DD & RC assays are pending (as of July 2022).
- The results will contribute to a revised Mineral Resource Estimate (MRE) collated after exploration activities have been concluded.
- Zone 4 (Z4) is a new area & 1st RC results are pending
- The deposit is open in all directions & to depth.
- A wider detailed ground geophysical survey is currently underway beyond the area shown in the map to identify wider follow-up targets.





TSXV: REE | FSE: K2i

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EXPLORATION POTENITAL

Only 2.2% Explored

Total Area of EPL 6762

3,474 ha* (34,737,800 m2)** Area explored to date (Zone 1-4)

76 ha* (759,700 m2)** Unexplored Area to date

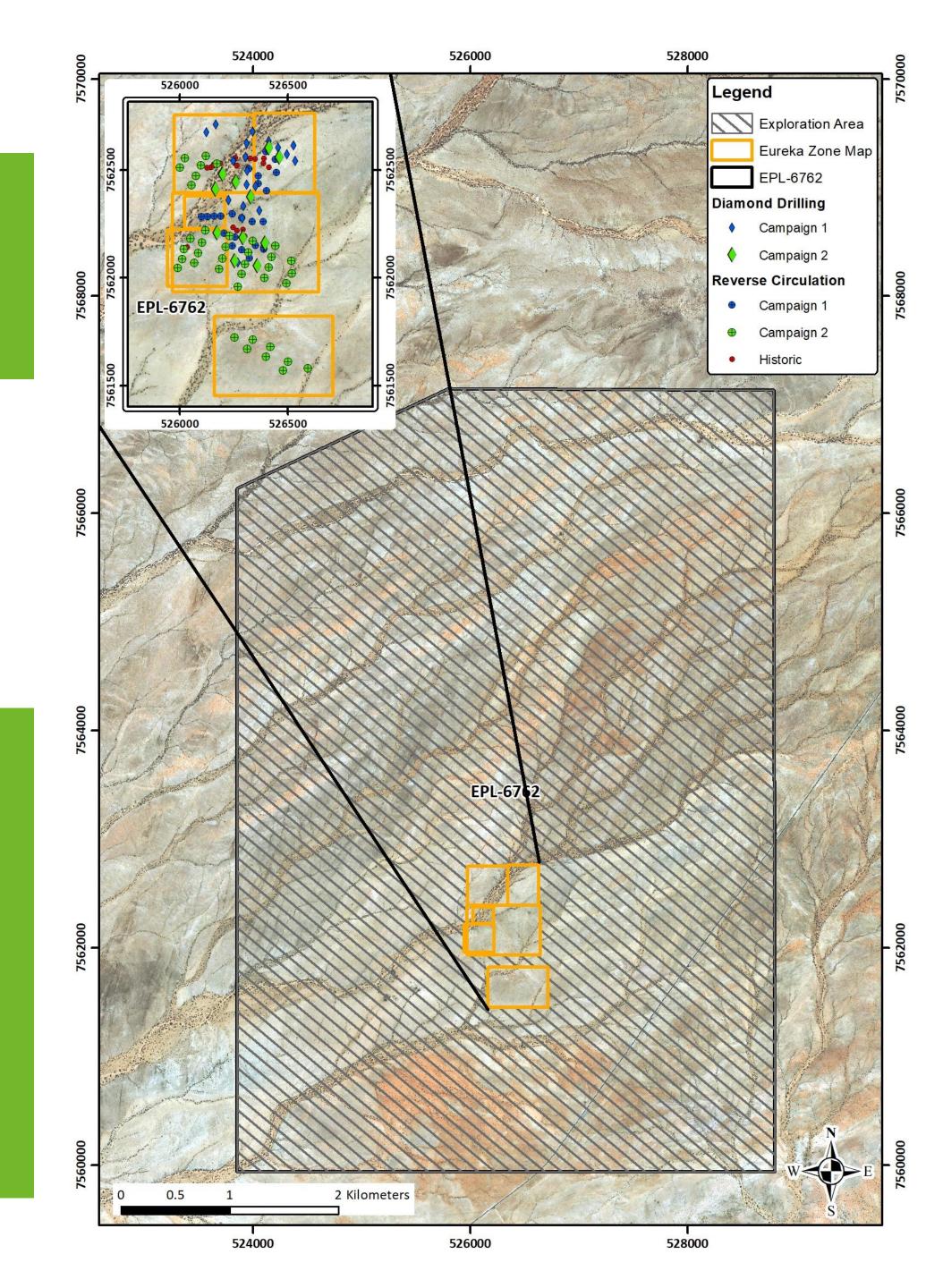
3,398 ha* (33,978,100 m2)**

* Rounded to nearest 1 | ** Rounded to nearest 100

WHAT HAS THE COMPANY PLANNED MOVING FORWARD?

Currently conducting a widespread ground magnetic survey program totalling 1060 line-km's

Simultaneously conducting a wide-spread ground radiometric survey totalling 1224 line-km's



EUREKA'S

SIMPLE ORE BENEFICIATION

Chemical-free beneficiation to meet the technical specifications of processors

AT EUREKA

OFF THE SHELF EQUIPMENT **BASED ON EARLY-STAGE BULK SAMPLING &**

BENCH-SCALE TESTING OF OUTCROP MATERIAL

NO

XRAY

SORTING

HARSH CHEMICALS NO

FLOTATION REQUIRED

>65%

>60%

RECOVERY

TREO GRADE

OF >97% MONAZITE CONCENTRATE after 1st pass using Gravity & Magnetic Process



AMENABLE SHIPPING OF **PRODUCT**

Due to low radioactive levels



POTENTIAL LOW COST OF **PRODUCTION** RELATIVE TO COMPETITORS

As confirmed by SGS Mineral Services



CONCENTRATION



MAGNETIC SEPARATION

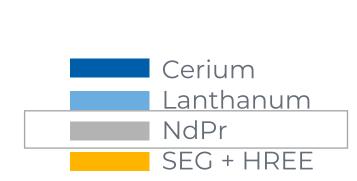


MONAZITE CONCENTRATE



EUREKA'S AVERAGE

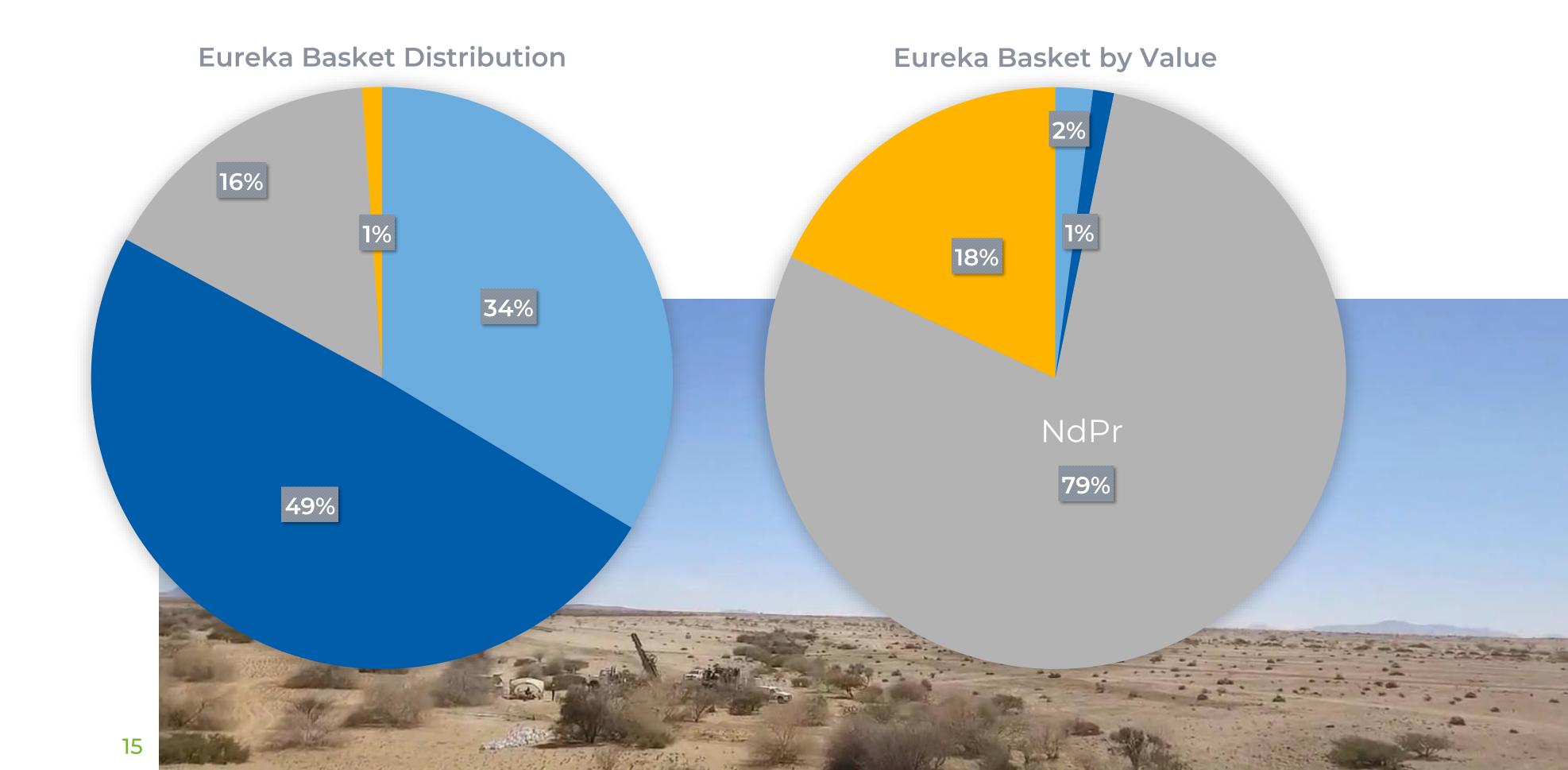
BASKET DISTRIBUTION & BASKET BY VALUE

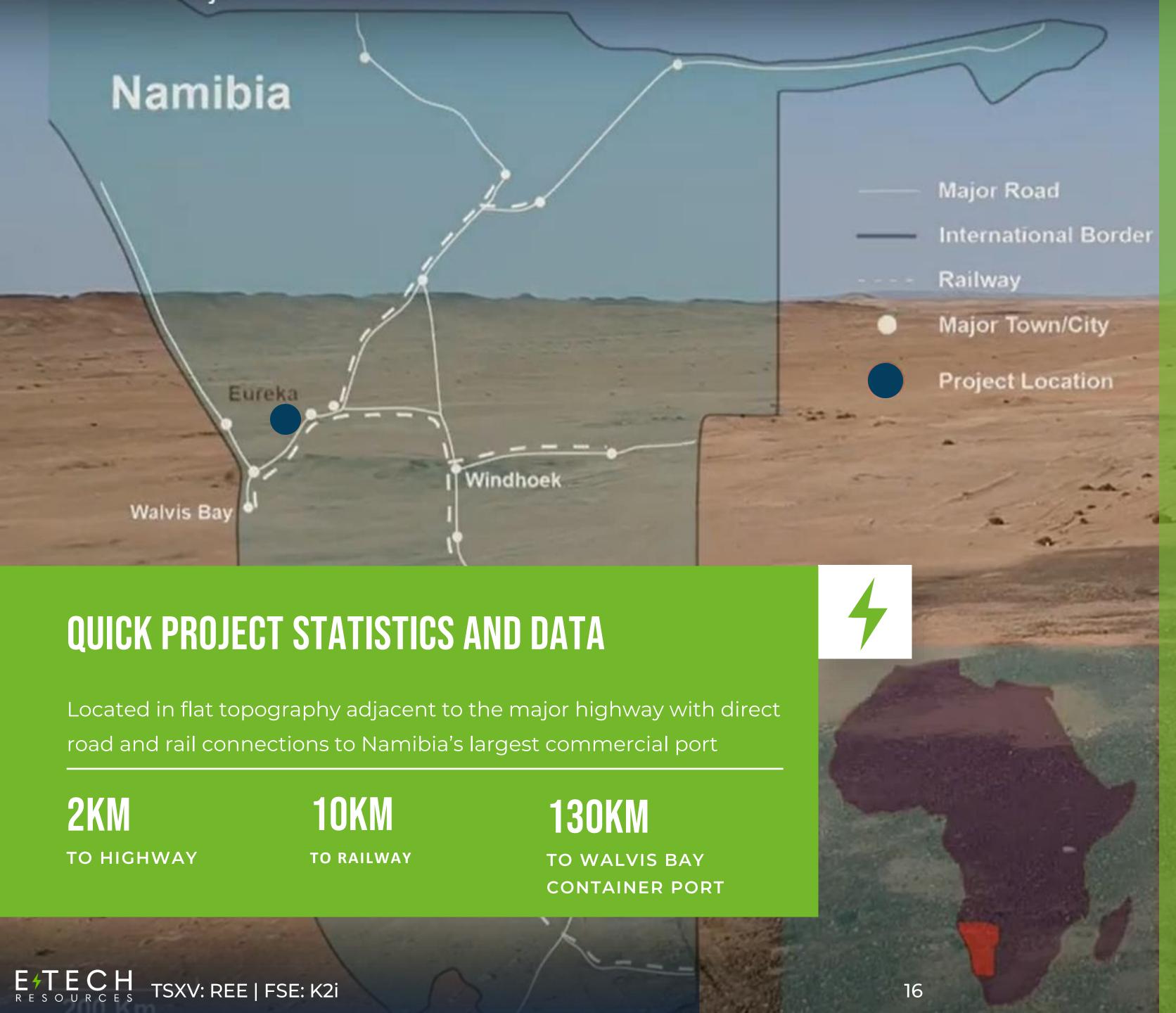


Notes:

NdPr - Neodymium & Praseodymium SEG - Samarium, European & Gadolinium

HREE - Heavy Rare Earth Elements





Location & Accessibility

- Located in the Erongo Mining Corridor of Namibia
- Namibia is a top tier country for mining and is one of Africa's most stable countries

- Adjacent to B2 highway, with a 1.5-hour drive to Walvis Bay container port, Namibia's largest commercial port
- Tarmac roads are kept in good condition
- Access to power and water
- Railway to Walvis Bay runs parallel to B2
 Arterial Road
- Walvis Bay container port recently completed a \$350M expansion in 2019

ESG Protocol

COMMITTED TO HIGHEST STANDARDS OF ENVIRONMENTAL, SOCIAL & CORPORATE GOVERNANCE



- EIA by ASEC Namibia
- Follow board approved Corporate Codes, Policies, Charts, Guidelines
- Own Sustainability Advisory Board with ESG experts installed
- Adhere to relevant United Nations SDG
- Adhere to Project Readiness Standard (by project due diligence)
- Work with European REIA, as member of ESG Board
- Contribute to Lifecycle analysis (LCA)
- Ongoing environmental and social impact assessment



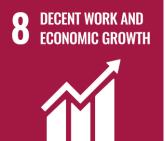
Health & Safety

- installing well defined HSSE policies and measures
- guaranteeing low emittance of radioactivity
- securing localised dust management measures



Community Support

- performing social studies and relief measures
- supporting of regional community and social services
- delivering regional industrial development potential



Best Practice & Transparency

- installing responsible company codes & policies
- securing high-standard ESG principles
- developing towards certification for sustainable practices



Value Chain Management

- selecting sustainable cooperation partners
- advocating stakeholder involvement
- securing long term business growth and value-add



Environmental Care

- auditing of Environmental & Social Impact analysis & measures
- performing hydrological test work
- development of Life Cycle Inventory and Assessment



Efficient Consumption

- guaranteeing responsible use of energy and water
- minimising consumption of chemicals
- providing potable & farming water as valuable side-products



Jobs & Education

- offering sustainable work contracts for the national population
- conducting training programmes and educational support
- sponsoring personal development programmes



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Inclusiveness & Fairness

- enabling social inclusiveness
- offering fair work standards and compensation
- securing sustainable project and living standards



TSXV: REE | FSE: K2i

FACTORS FOR SUSTAINABLE PROJECT VALUE

Value Sustainability

FAVOURABLE

GEOGRAPHY, INFRASTRUCTURE & RESOURCE CHARACTERISTICS

EXCELLENT

TECHNICAL PROCESSING CONDITIONS
& PRODUCTION STANDARDS

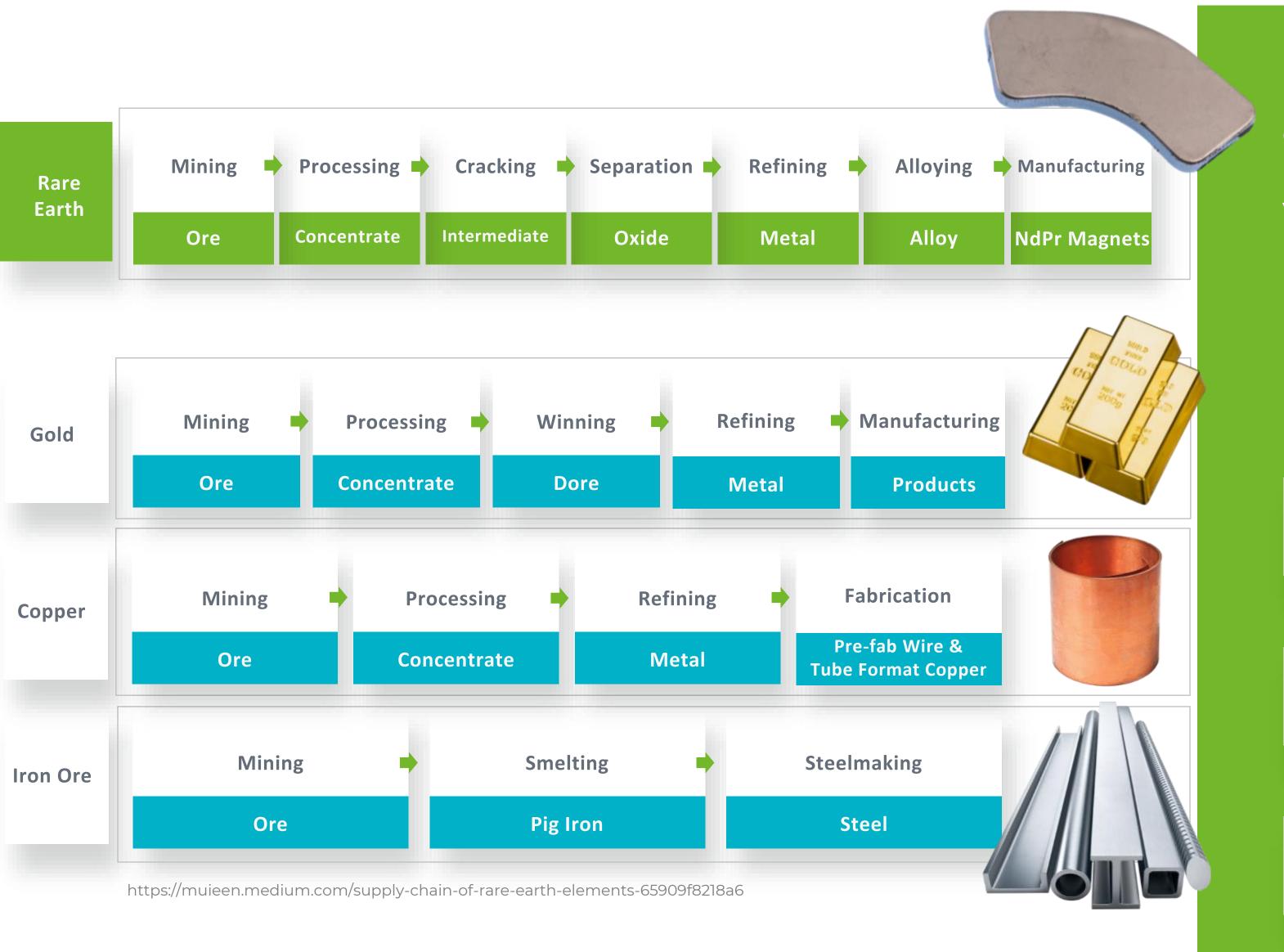
SUSTAINABLE

PROJECT CONDITIONS ARE ACTIVELY MANAGED

HIGHLY COMPETITIVE

MARKET POSITIONING & HIGH GROWTH MARKET DEVELOPMENT





OPPORTUNITIES IN THE

Value Add Steps.

Compared to other Raw Minerals

The REE processing chain is quite complex.

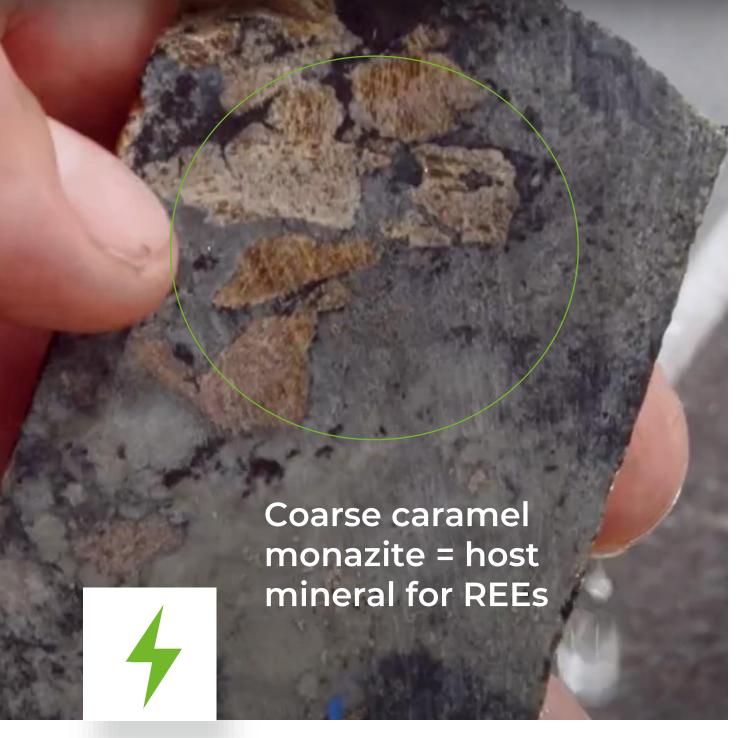
REE Value Add Levels

REE processing chain levels are not very transparent and not geographically de-risked

Opportunities

Ш

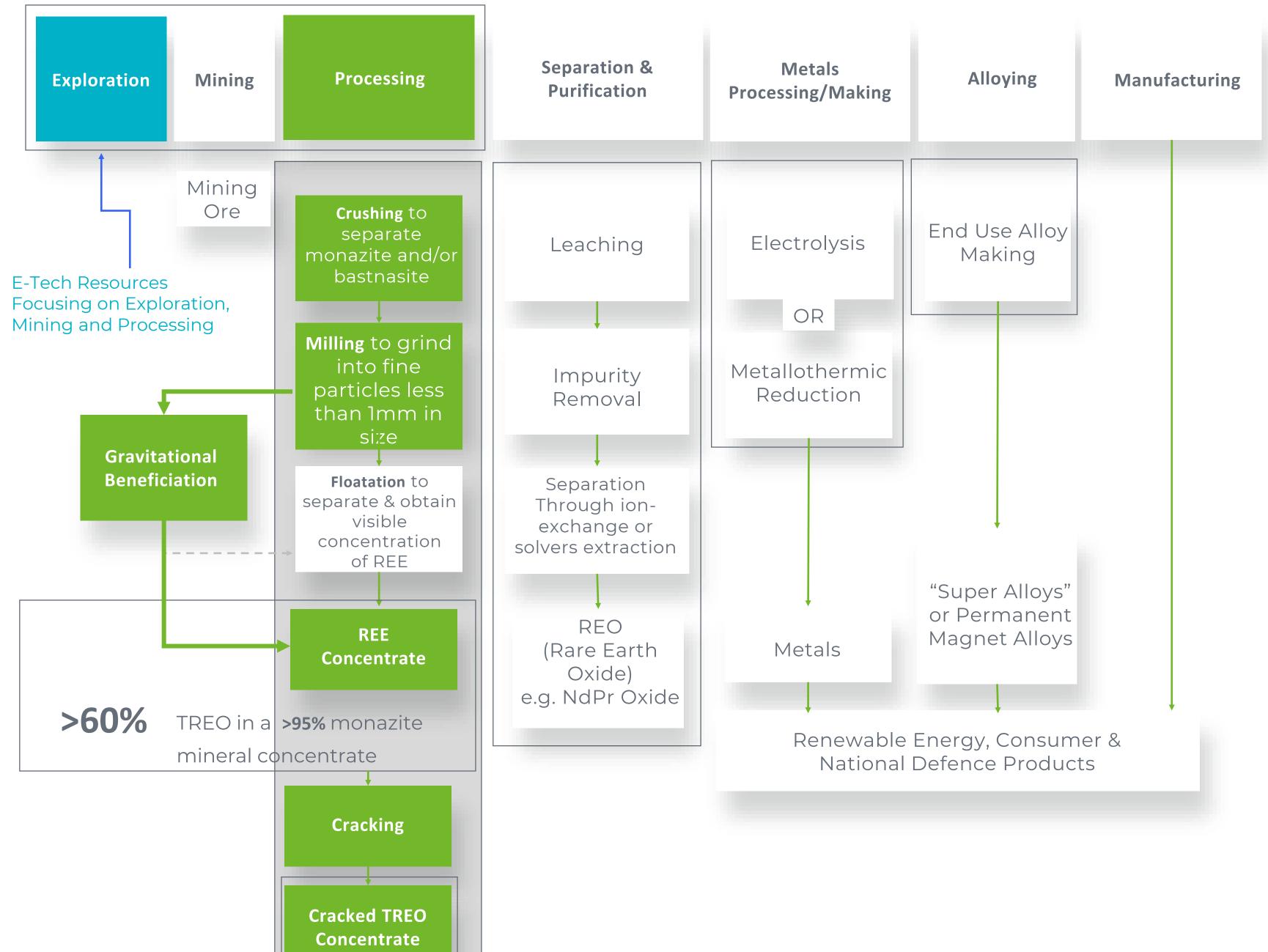
This can offer upside opportunities for early investors and traders.



THE EUREKA

Value Chain

Simple processing stages (ore beneficiation), at **EUREKA**



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Advantageous Disadvantageous

Project Benchmarking.

Benchmarking.

Eureka has a low risk and high sustainability profile



- High grade deposit and accessible geology
- Easy ore and concentrate processability
- Mining-friendly jurisdiction
- Excellent infrastructure

DEPOSIT	OPERATOR	PRODUCING YET?	DEPOSIT SIZE	PREDOMINANT MONO-MINERALIC REE ORE	GRAINSIZE OF TARGET ORE	EASE OF PROCESSING / RECOVERY	RADIO- ACTIVITY	ACCESS	COUNTRY RISK	COST OF PRODUCING
Mount Weld, Australia	Lynas			Monazite	Fine grain	Flotation				
Mountain Pass, USA	Shenghe Resources			Bastnasite monazite	Medium	Flotation				
Gakara, Burundi	Gakara, Burundi			Bastnasite monazite	Large	Physical only				
Eureka, Namibia	E-Tech Metals		Delineation required	Monazite	Large	Physical only				
Songwe, Malawi	Mkango Resources			Synchysite apatite	Fine grain	Flotation Un-optimised				
Steenkamps kraal, RSA	Steenkamps kraal			Monazite	Large	Flotation	~6 wt. % Th			
Ngualla, Tanzania	Peak Resources			Bastnasite monazite	Fine grain	Flotation				
Mineral Sand	Madagascar			Monazite	Fine grain, liberated	Physical only	~10 wt. % Th			

Information not complete for brevity

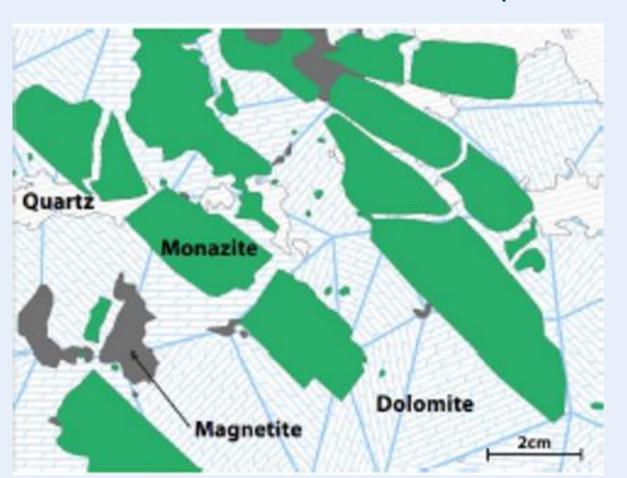
=> Low-cost base and high IRR potential

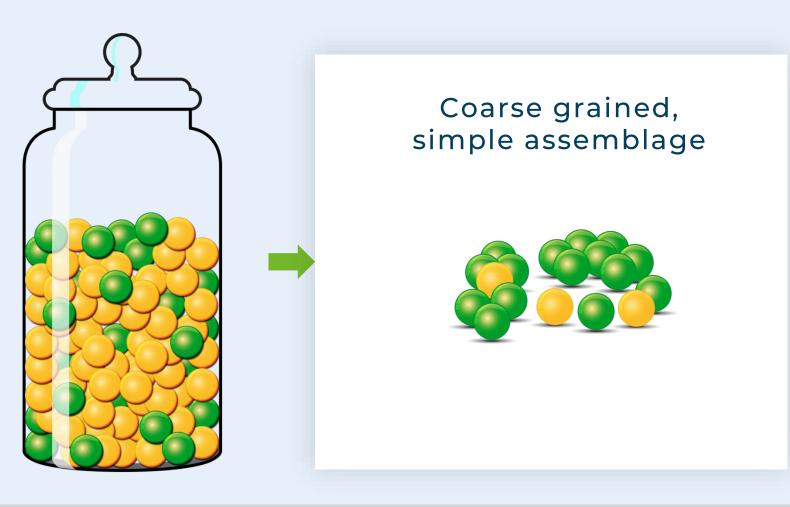


REE Project Beneficiation



Unweathered carbonatite (Eureka)



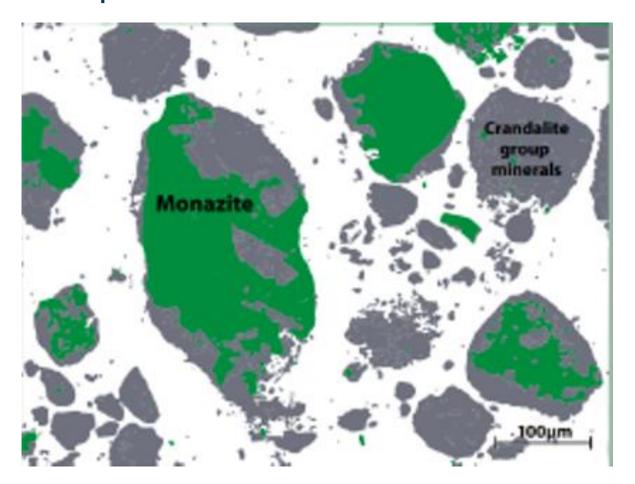


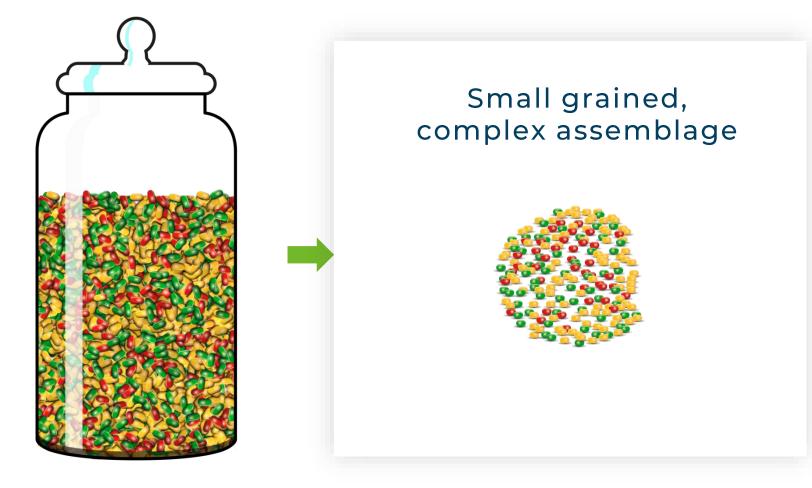
Eureka

First Pass Recovery

Processing requirements are simpler, with higher recovery of green "sweeties", with lower contamination (yellow sweeties).

Complex weathered carbonatite





Complex Processing

Processing requirements are more complex due to smaller grain size. This results in lower recovery of green "sweeties" and a less pure, more contaminated, REE mineral concentrate product.

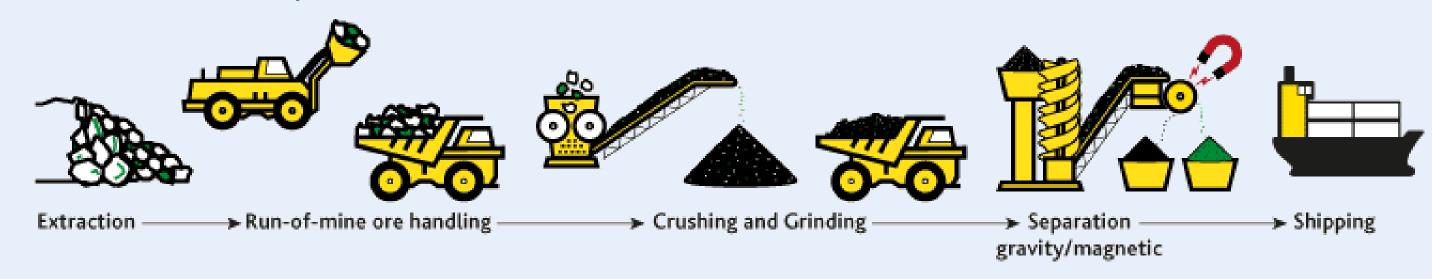
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REE Project Beneficiation

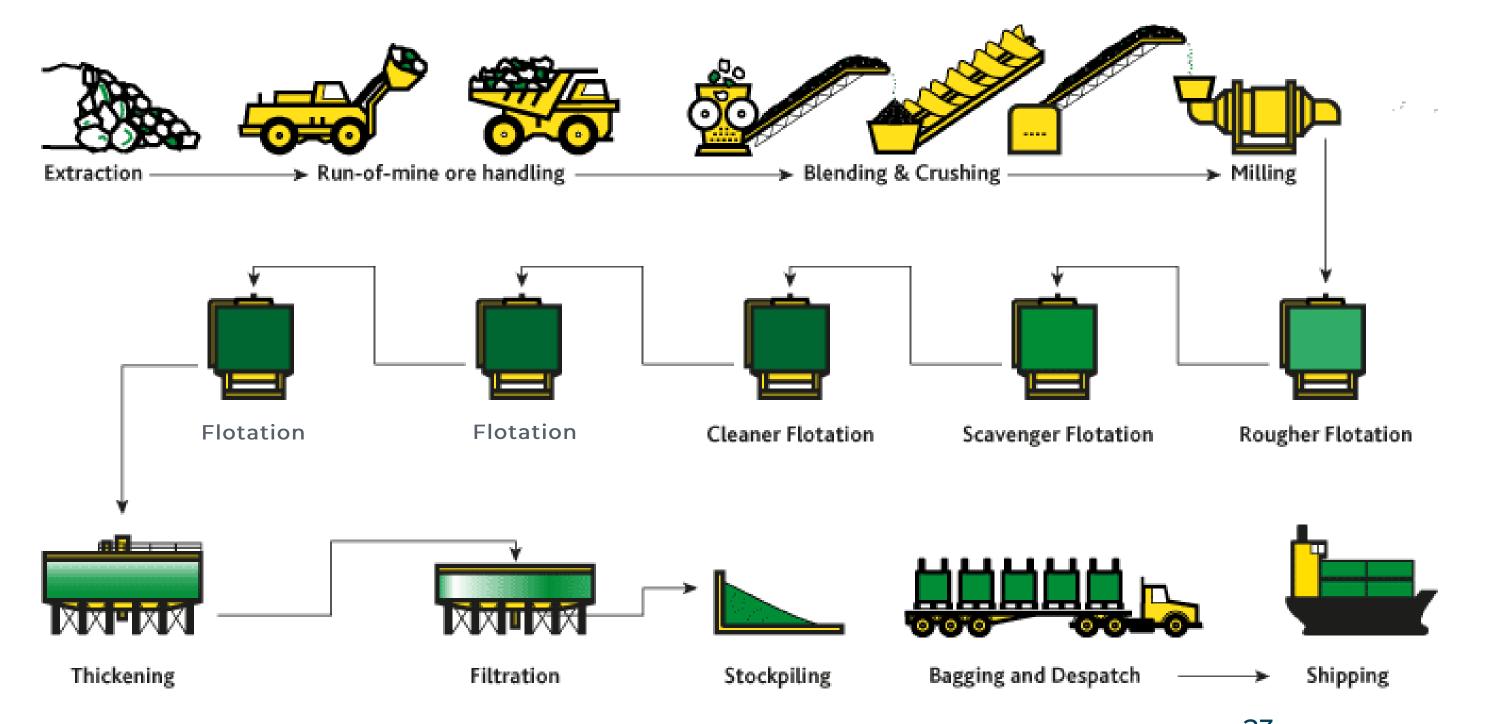


Low-cost \$ Simple flow-sheet to mineral concentrate



Eureka High-grade to mineral concentrate with >65% TREO

High-cost \$\$\$ Complex flow-sheet to mineral concentrate



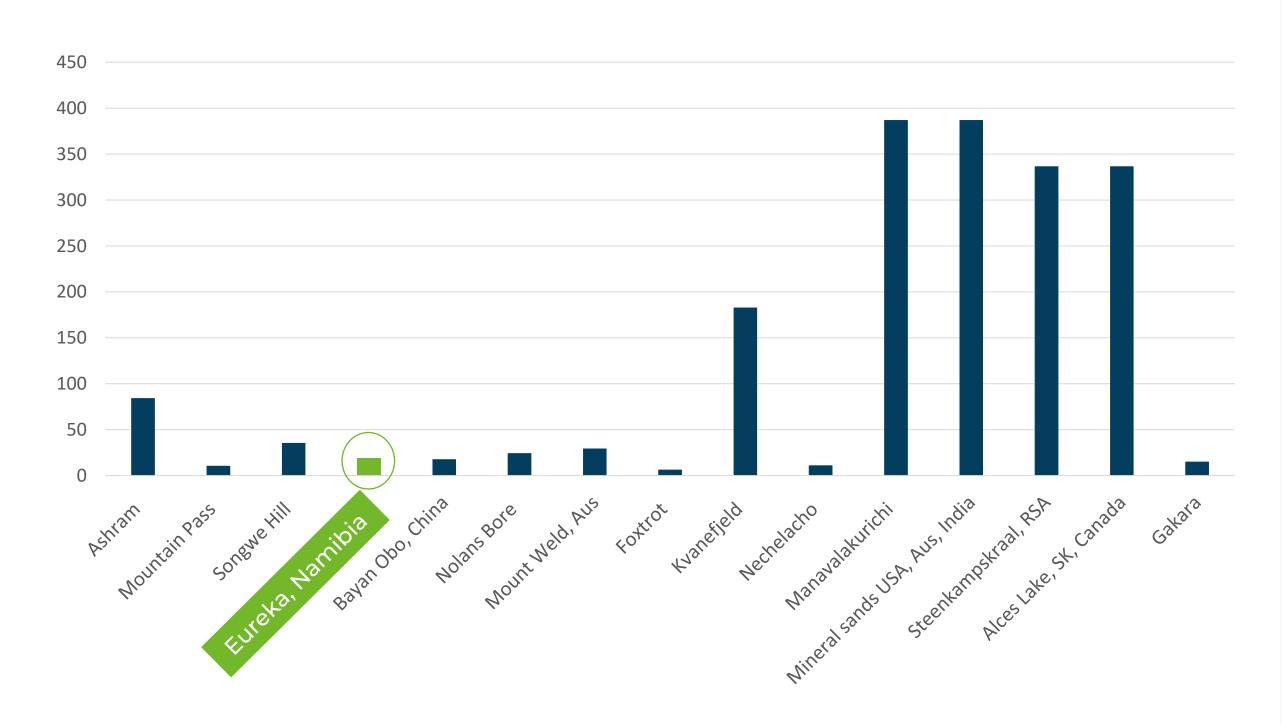
Other Projects Low-grade

to mineral concentrate with ~40% TREO

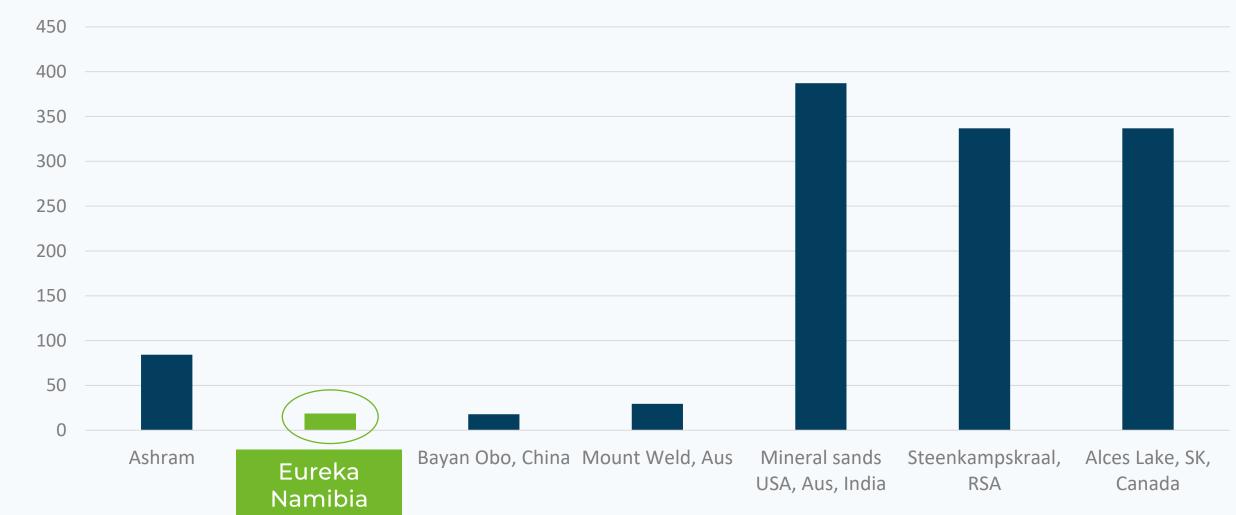


TSXV: REE | FSE: K2i

Radioactivity of REE ore mineral at deposit



Radioactivity of main REE ore at deposit Each at empirical purity comparison



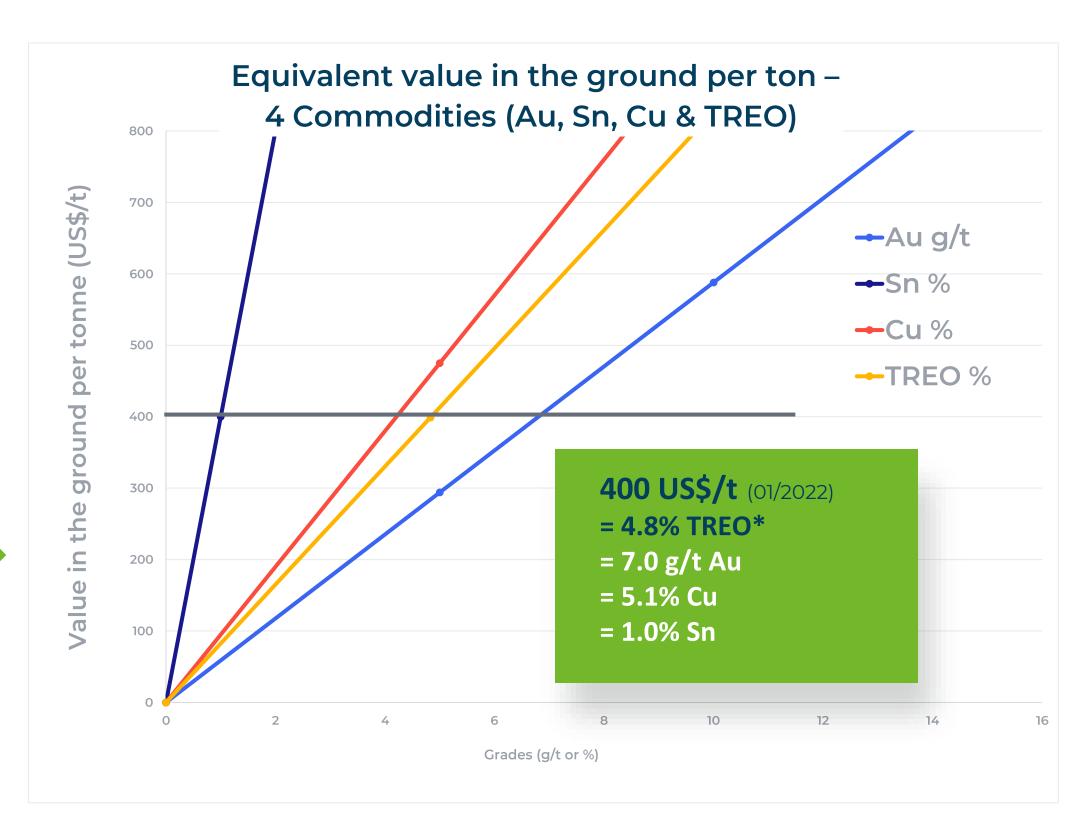
Radioactivity Specific Activity (Bq/g) monazites compared Each at empirical purity comparison

In-Situ Basket Value

Eureka in-situ equivalent value

Sales Options	Description	Key Value Drivers	Potential	Risk	Customer	Plant required	
Sell Mineral Concentrate (>65 TREO%)	All TREO incl. Th/U mixed in first marketable product	Fast Time-tp- Market, Low cost basis	Low-cost simple mechanical process, Th/U content remains in product	Small customer circle, high discount factor	Sell to Regional Competitors, toll-crack processors, traders or Chinese	Beneficiation plant	
			product		customers		

Value chain development can lead to Vertical M&A value add



*Based on an assumed monazite mineral price of 5,600US\$/t @ 67% TREO Grade



How is the project funded?

Where are you listed?

Capital Structure

Market Capitalization

COMPANY DETAILS

Financials

By 100% Equity Capital

We are dual listed: primarily on the TSX-V & co-listed on the Frankfurt Stock Exchange

Issued & Outstanding | 82,971,530 Options | 3,175,000 Warrants | 1,400,000

> Share Price | C\$ 0.15 Market Cap | C\$ 12,445,730 Cash | C\$ 1.1m

> > As at 19 Sept 2022

4

Milestone Planning

E-Tech Resources activities

2021

2022







Q3 2021 Drilling Program Campaign 1 Q4 2021 – Q2 2022 Drilling Program Campaign 2 Q3-Q4 2022
Radiometric
Geophysical
Survey to define
new areas & drill
targets

Onwards

Collating exploration results & Updated Mineral Resource Estimate (MRE)

PLANNED

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THANK YOU

SEND US YOUR QUESTIONS:

CONTACT@ETECH-RESOURCES.COM