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

EFTECH RESOURCES

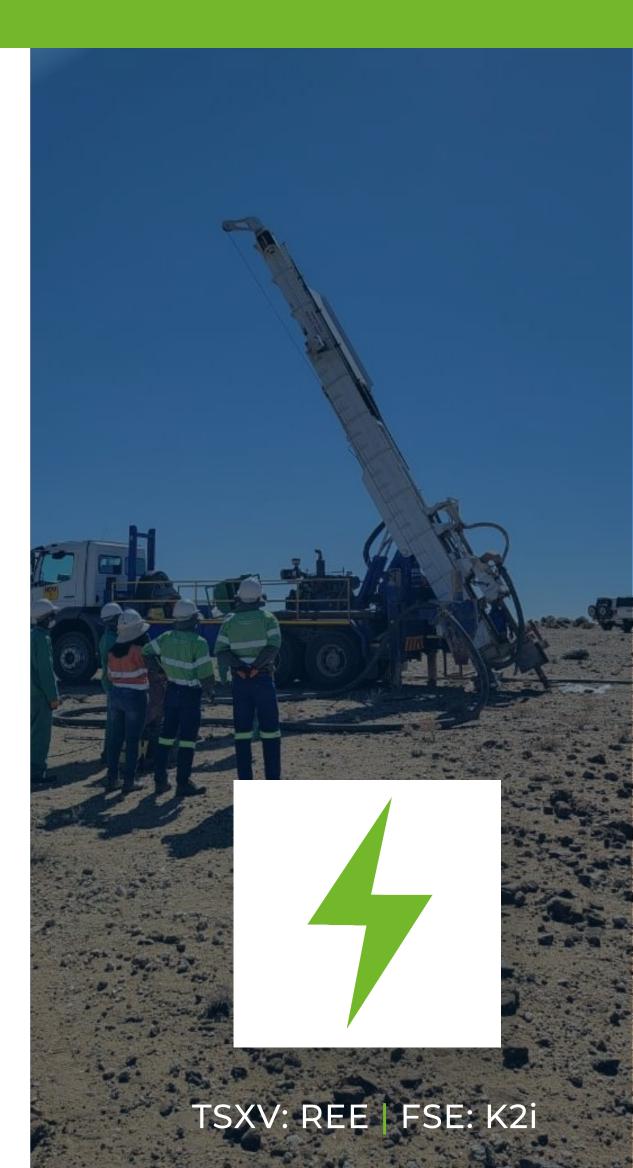


Company Presentation

FEBRUARY 2023

www.etech-resources.com







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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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TSXV: REE | FSE: K2i

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Technical Disclaimer















E-Tech Resources is a Rare Earth Element **Exploration and Development Company in Namibia**

We have the potential to be one of the simplest REE projects in the world Through our discoveries we're helping to transition the world to a cleaner future



We're exploring for Rare Earth Elements, particularly





COMPANY DETAILS

Board & Management Team



CANADA

INTERIM CEO **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.



KEN MARSHALL ENERGY, CANADA



in mineral exploration, REE process development and financing.

EFTECH RESOURCES TSXV: REE | FSE: K2i



PROF FRANCES WALL

GEOLOGY, UK

Professor of Applied Mineralogy at Camborne School of Mines, University of Exeter. 30+ yrs experience researching the geology and process mineralogy of global rare earth deposits and practically linking exploration stage studies to responsible sourcing outcomes. Chair of the British Geological Survey Science Advisory Committee. Member of the UK Critical Minerals Expert Committee. Named in the WIM UK '100 Global Inspirational Women in Mining' 2016 edition

PARTNERS

Exploration > Mining > Processing







Exploration Drilling

Mineral Processing Mineralogical Test Work



& Mine Modelling

Resource Auditing Mineral & Metallurgical Processing





Assay Testing

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





FLAT & SPARSELY POPULATED

TSXV: REE | FSE: K2i



TO B2 HIGHWAY

Tarmac roads are kept in good condition



Railway to Walvis Bay runs parallel to B2 Arterial Road

QUICK PROJECT STATISTICS AND DATA





TO WALVIS BAY CONTAINER PORT

Namibia's largest commercial port



ACCESS TO ELECTRICITY



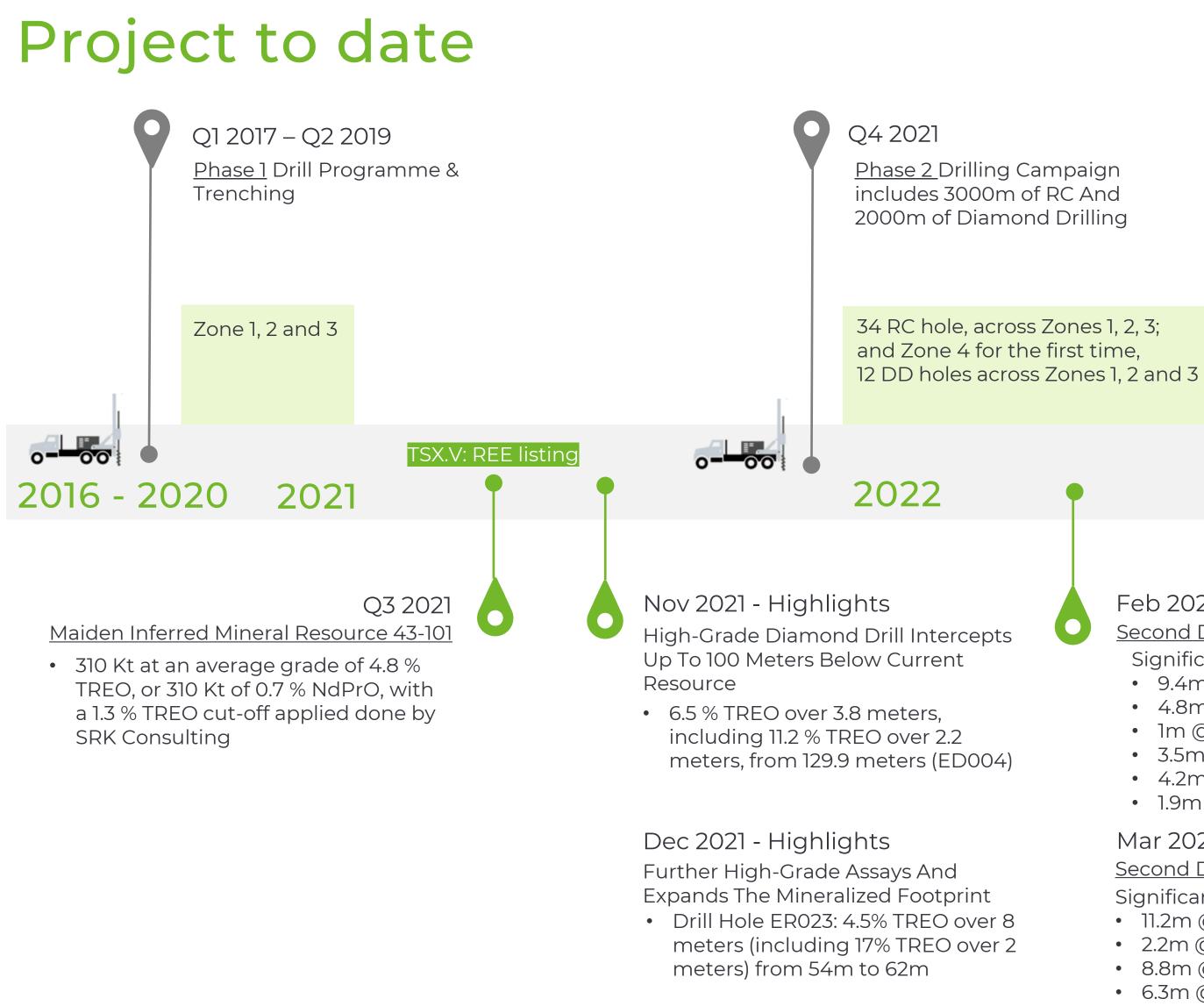
A Simple NdPr Project

Simple Mineralogy	 High grade TREO is monazite, hosted w In-situ average grad resource (NI43-101, A Additional explorati mineralization and i
Simple Operation	 Initial mechanized r Monazite beneficiat No hazardous chem Monazite concentra equipment.
Simple Logistical Management	 Located in flat topog Direct road and rail port. Amenable shipping monazite. Access to power and

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- s predominantly contained in coarse grained vithin numerous carbonatite dykes.
- de 4.8% TREO, as stated in maiden Inferred Aug 2021).
- ion underway to assess overall footprint of the increase tonnage.
- mining of dykes from open pits. ted by low-cost physical methods only. nicals or expensive reagents required. ate recovered using off-the-shelf beneficiation
- bgraphy adjacent to the major highway. I connections to Namibia's largest commercial
- g handling due to low radioactive content in the
- d water.





R E S O U R C E S

Q2-Q3 2022

Magnetic survey program totaling 1060 line-km's

Wide-spread ground radiometric survey totaling 1224 line-km's

Widespread mapping program covering entire prospective area, approx. 11,200 points.



Feb 2022

Second Drill Campaign Results Significant intersections include:

- 9.4m @ 1.3% TREO (ED008)
- 4.8m @ 1.2% TREO (ED009)
- 1m @ 13.4% TREO (ED017)
- 3.5m @ 4% TREO (ED011)
- 4.2m @1.2% TREO (ED017)
- 1.9m @ 1.8% TREO (ED019)

Mar 2022

<u>Second Drill</u> Campaign Results Significant intersections include:

- 11.2m @ 1.2% TREO (ED013)
- 2.2m @ 2.4% TREO (ED014)
- 8.8m @ 1.0% TREO (ED015)
- 6.3m @ 1.9% TREO (ED020)

Zone 1,2,3 & 4 40 holes drilled, 37 intercepted

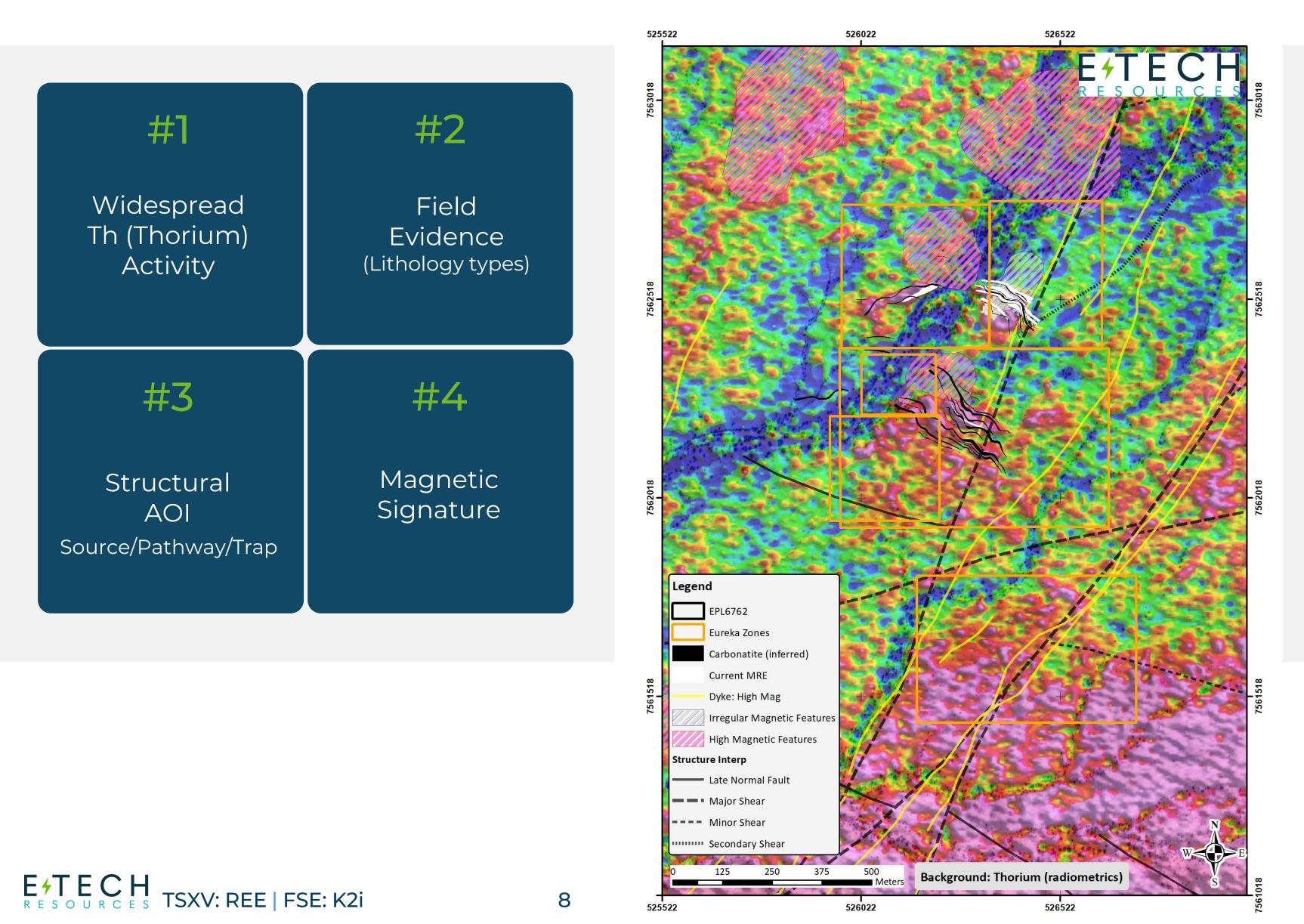
More assays to come

Q4 2022

Establishing geological characteristics of Eureka deposit that will lead to new target identification



Looking for more... Devil is in the detail! Defining favourable deposit characteristics from what we already know.



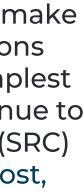


Highlight areas of specific interest associated with 1, 2, 3 and 4



Large monazite crystals and simple minerology make the Eureka REE deposit unique. Early indications continue to show Eureka may be one of the simplest and cost-effective projects to advance. We continue to work with the Saskatchewan Research council (SRC) and others to determine if Eureka is a lower-cost, nearer-term REE opportunity.





EXPLORATION COMPLETED AT END OF JUNE 2022

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)**

EXPLORATION COMPLETED NOW (OCT 2022)

72.4% Explored

Total Area of EPL 6762

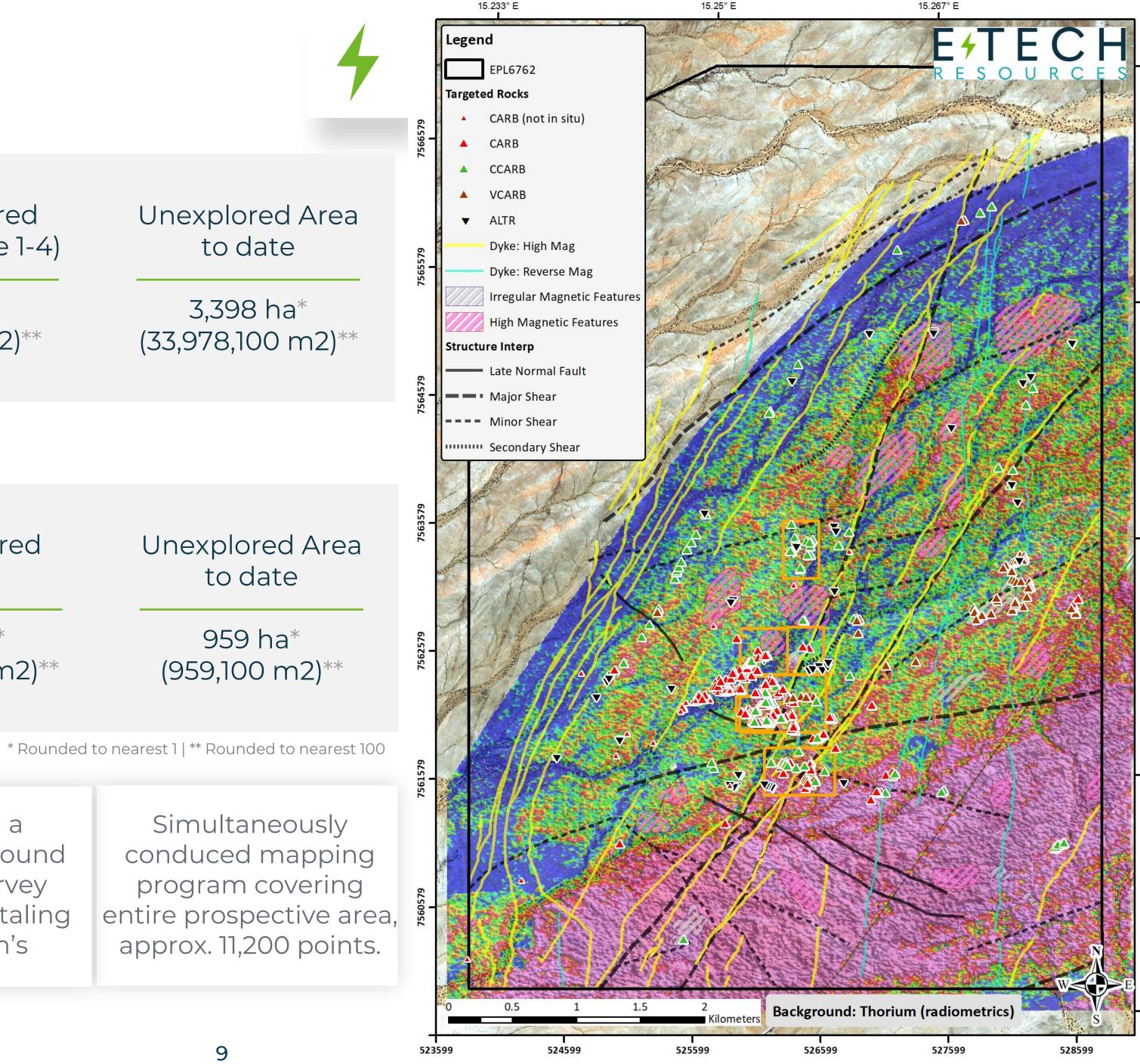
3,474 ha* (34,737,800 m2)** Area explored to date

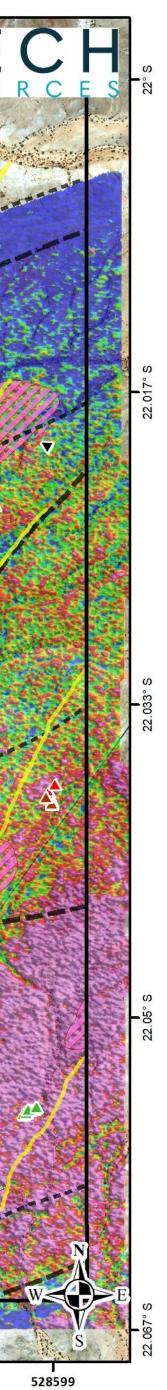
2,515 ha* (25,515,700 m2)**

Completed a widespread ground radiometric survey totaling 1224 line-km's

Conducted a widespread ground magnetic survey programme totaling 1060 line-km's

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New Areas



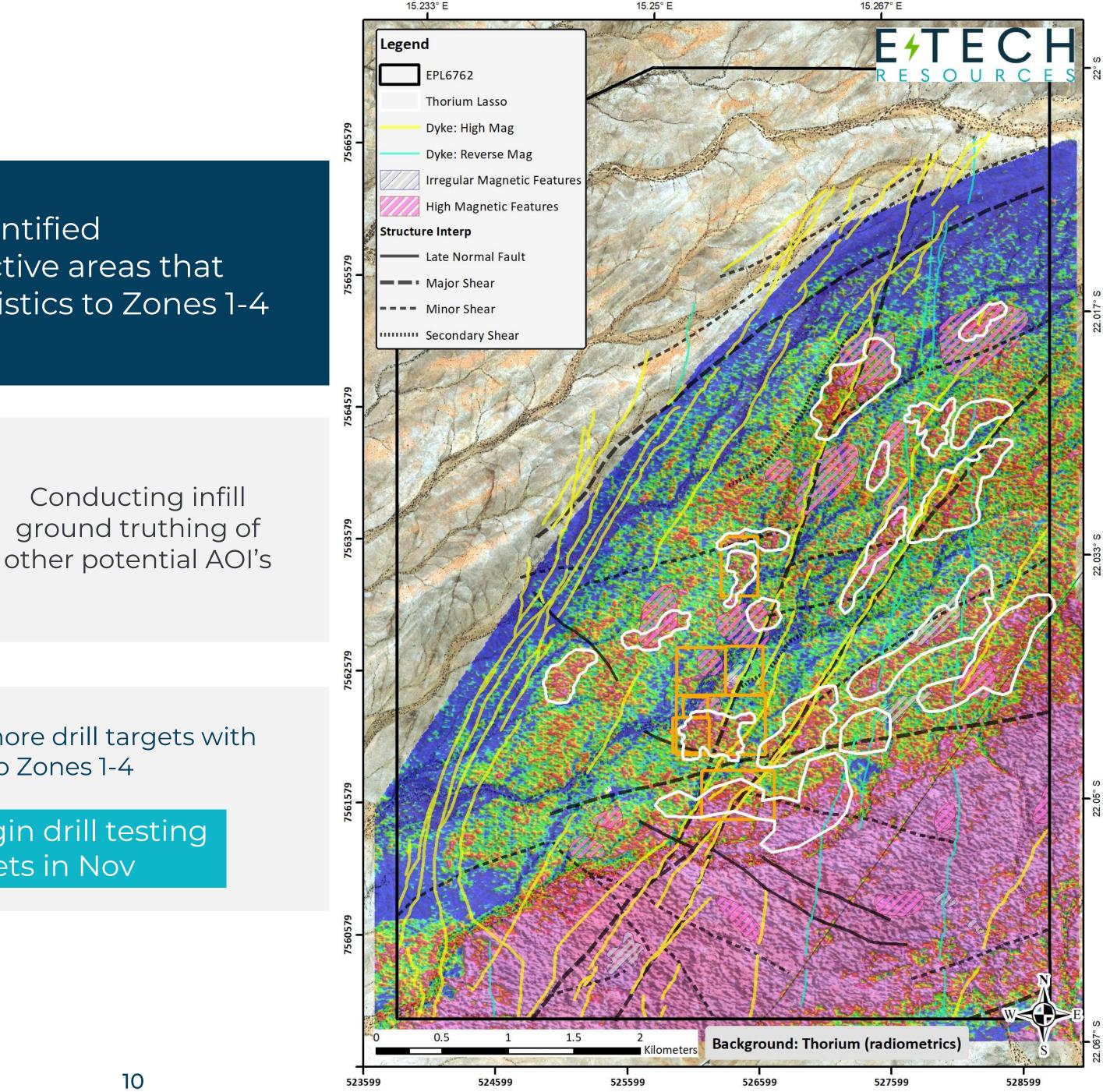
We have identified several new prospective areas that share similar characteristics to Zones 1-4

We are still conducting our widespread geological mapping

With a view to identifying more drill targets with similar potential to Zones 1-4

We would like to begin drill testing these new targets in Nov





⁵²⁸⁵⁹⁹

Use of XRF Sampling

Since COVID-19, assays can take up to 12-16 weeks turnaround and REE samples are some of the most expensive minerals to assay for;

- Acquired an pXRF (portable XRF)
- Currently the company does not assay every meter (due to time/cost). Sampling is led by RadEye measurements of CPS

The pXRF will allow the company to conduct "live" analysis of all its samples, allow us to build continues elemental composition data sets and it will ultimately lead to a massive cost reduction caused by lengthy sample result delays.

> Insert: Visible monazite discovered in newly defined AOI.

We will over the next month revisit all historical samples sampled to date (even ones not previously assayed)

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REE bearing Monazite crystals. This is what we're looking for

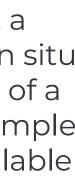
XRF (X-ray fluorescence) is a non-destructive analytical technique used to determine the elemental composition of materials







Portable X-ray fluorescence analysers (pXRF) represent a category of hand-held instrumentation that is capable of in situ simultaneous multielement analysis outside the confines of a laboratory. The instrument is placed in contact with the sample to be analysed, and analytical results are immediately available for review by the operator.



Project timeline – Next steps summary

<u>To date:</u>

- 8000m diamond core (DD) drilling &
- 6000m of RC drilling diamond core drilling has been completed
- >10km trenching;
- Ground radiometric surveys;
- Ground magnetic surveys;
- Detailed geo-mapping;
- Rock sampling;
- Mineralogical studies

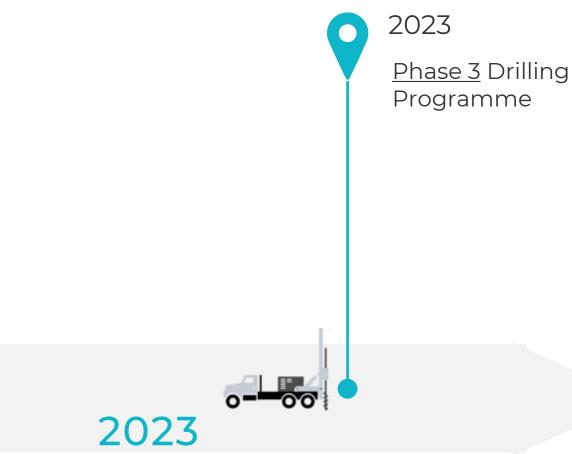
More assays to come





• Looking for <u>more targets</u>





<u>Characteristics</u> will assist in the identification of new drill targets • Ground Proofed 3-4 before we start drilling – expected start Nov

- We are revisiting all old samples with the pXRF
- Specific focus on samples previously not analyzed. Potentially allowing for the identification of sampled that is carry mineralization

ESG Protoco

COMMITTED TO HIGHEST STANDARDS OF ENVIRONMENTAL, SOCIAL & CORPORATE GOVERNANCE

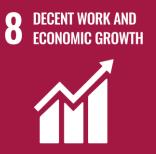
Health & Safety

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



3 GOOD HEALTH AND WELL-BEING





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

• 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











How is the project funded?

Where are you listed?

Capital Structure

Market Capitalization

COMPANY DETAILS Financials

TSXV: REE | FSE: K2i

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\$ 0.145 Market Cap | C\$ 12,030,871 Cash | C\$1.1m

> > As at 13 Oct 2022







THANK YOU

Send us your questions: contact@etech-resources.com



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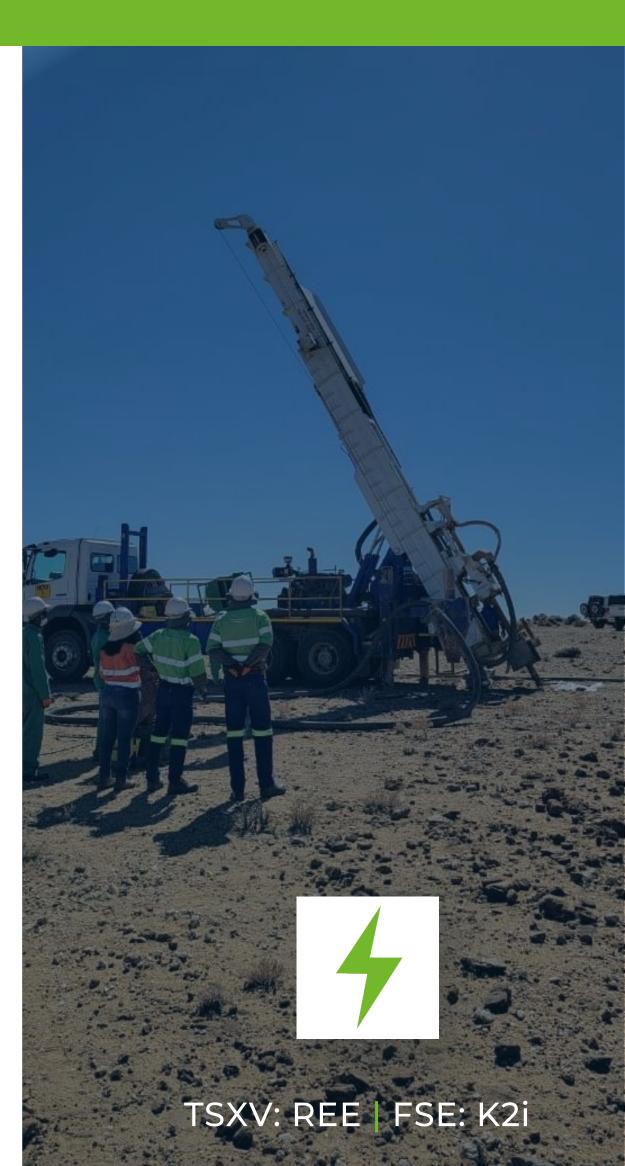
E-Tech Resources are exploring for the rare earth elements necessary to drive the global transition to clean energy

EFTECH RESOURCES





www.etech-resources.com





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

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

High-performance materials 03 are essential for <u>reliable</u> <u>e-mobility</u> and <u>renewable</u> energy generation.

Nd is a key rare earth element 04 (along with Praseodymium) to the high-growth, hi-tech markets that support a circular economy.

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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

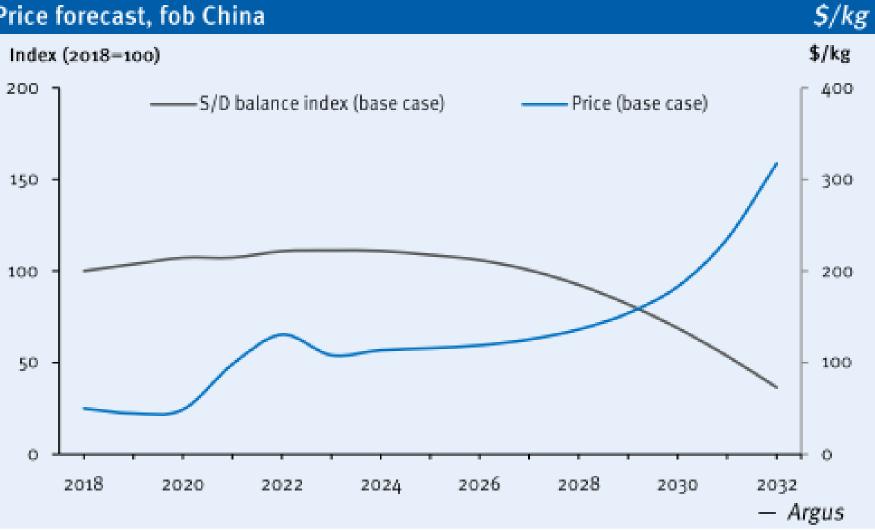
WHY NEODYMUM?



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Forecast

Nd & Pr Drice



Price forecast, fob China





400

300

200

100









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

High dependency on import from China



Underinvestment in ex-China value chains



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





REE Energy Metals Market Value

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

19

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Global Market Insights

RARE EARTH METALS MARKET



ELECTRICAL EV MOTORS WIND TURBINES

GLOBAL REE METAL & MAGNET SUPPLY

+80%

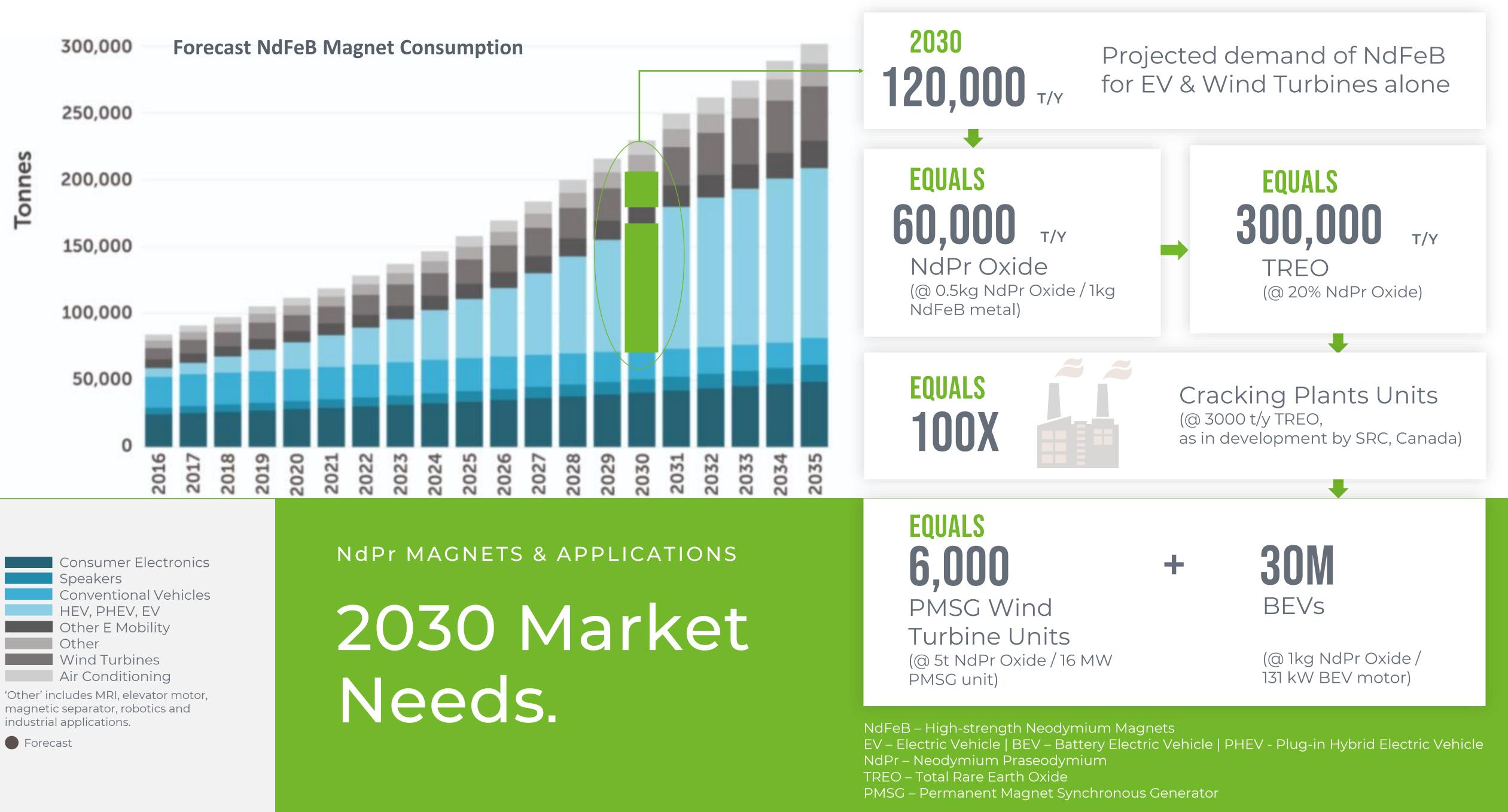
Will still come from China

GLOBAL REE ORE MINING & PROCESSING

+60%

Will remain to originate from China

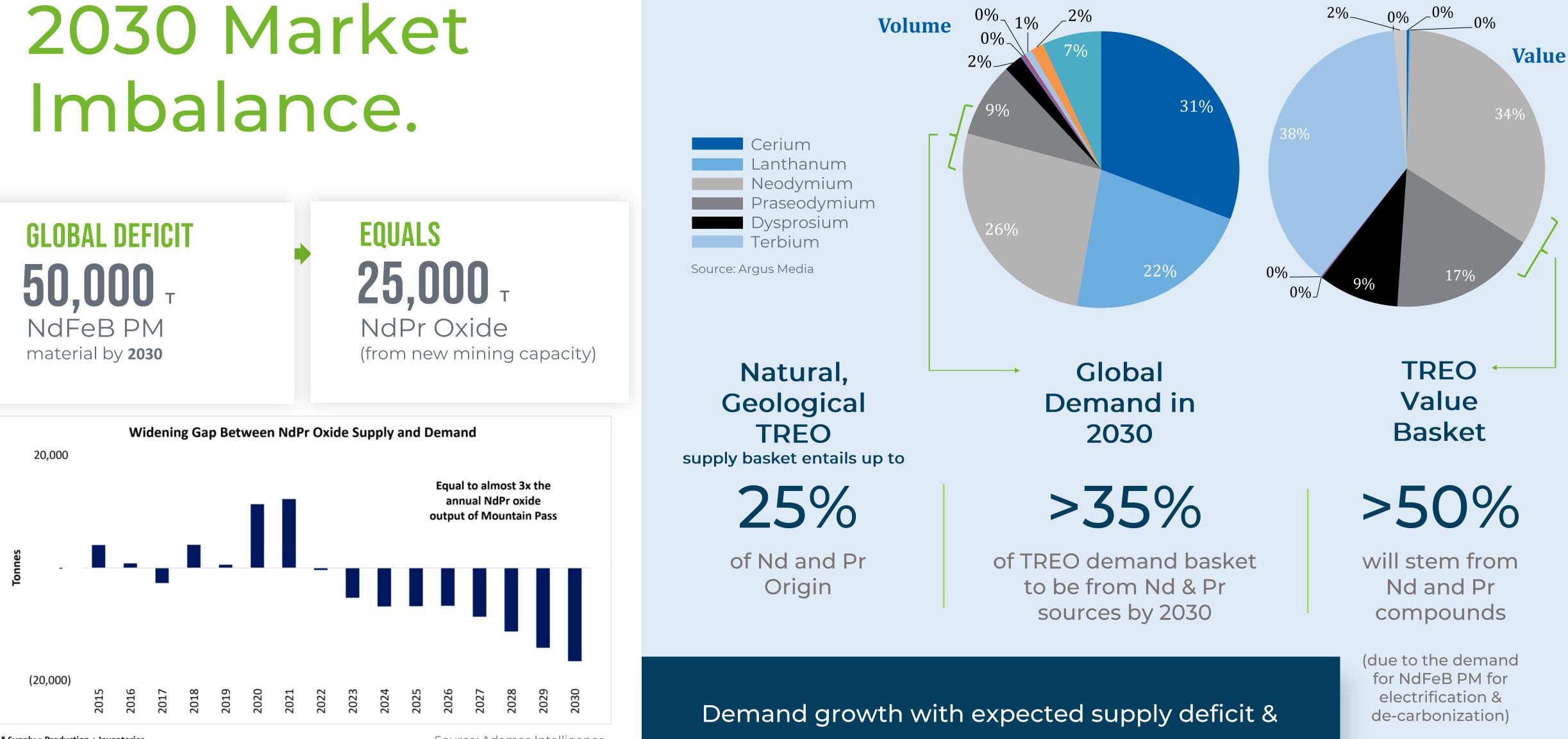




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NdPr OXIDE

EQUALS **25,000** ⁻ NdPr Oxide



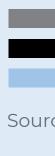
* Supply = Production + Inventories

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E⁺TECH

Source: Adamas Intelligence

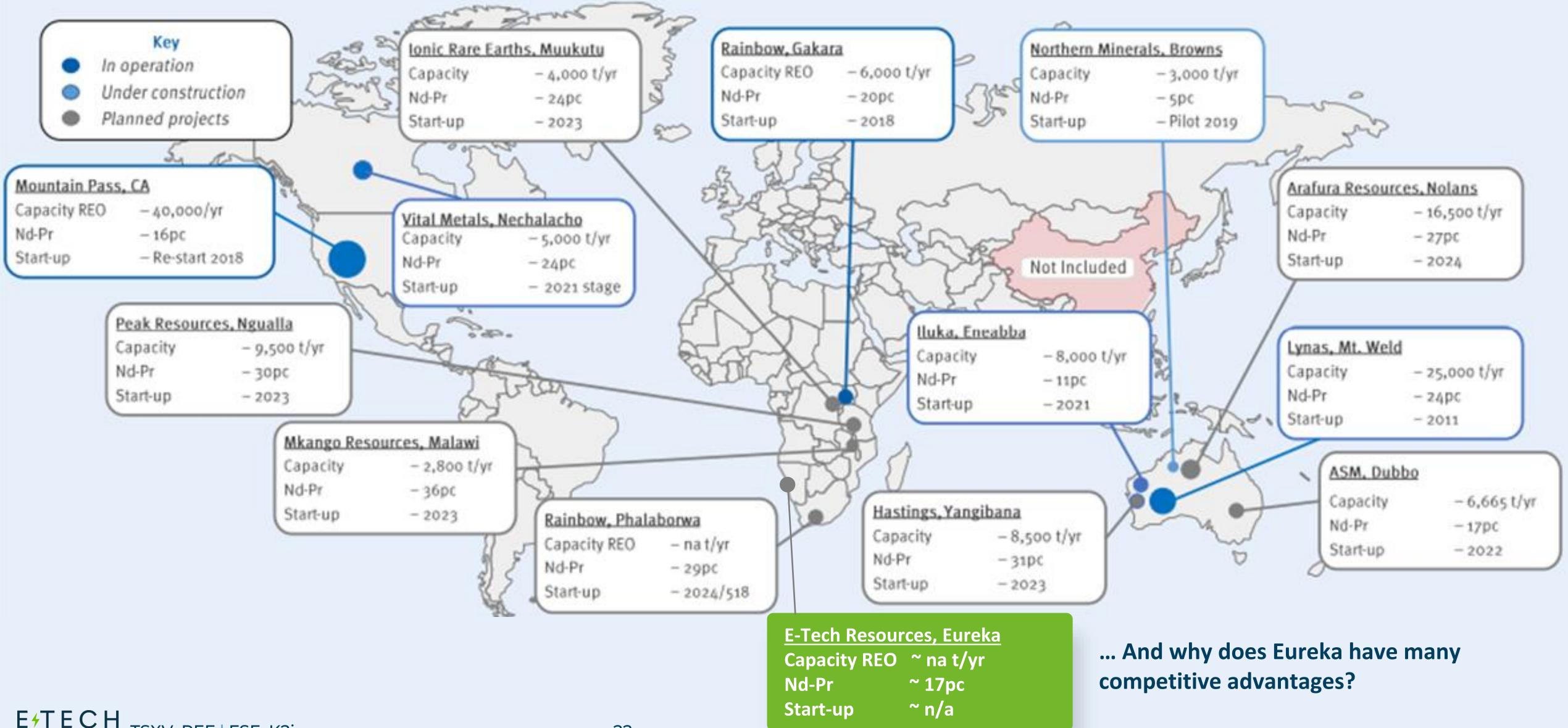
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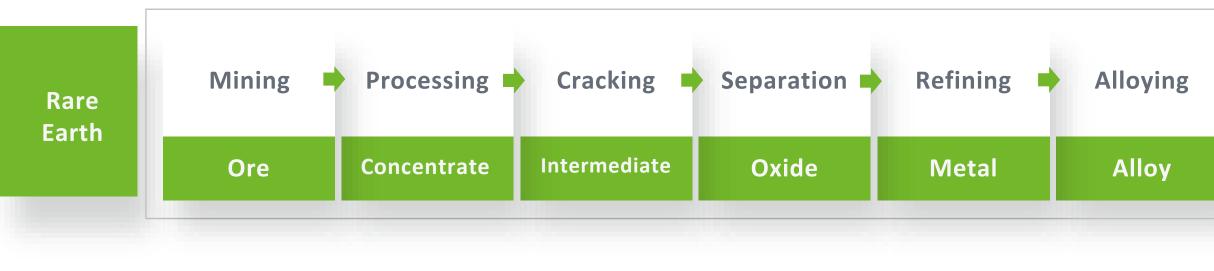


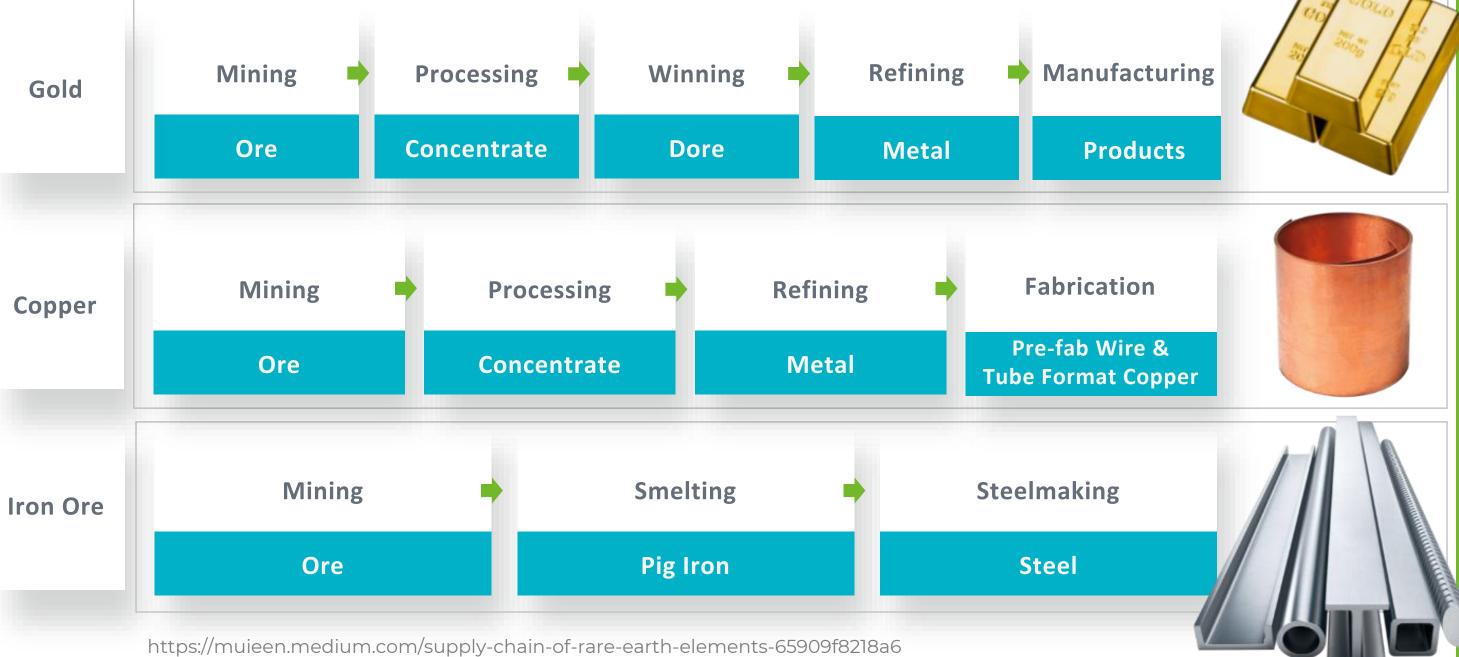
Rare earth oxide demand by element (volume & value), 2030

geopolitical concerns = high price = high value of NdPr

Global TREO Pipeline







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OPPORTUNITIES IN THE

Value Add Steps.



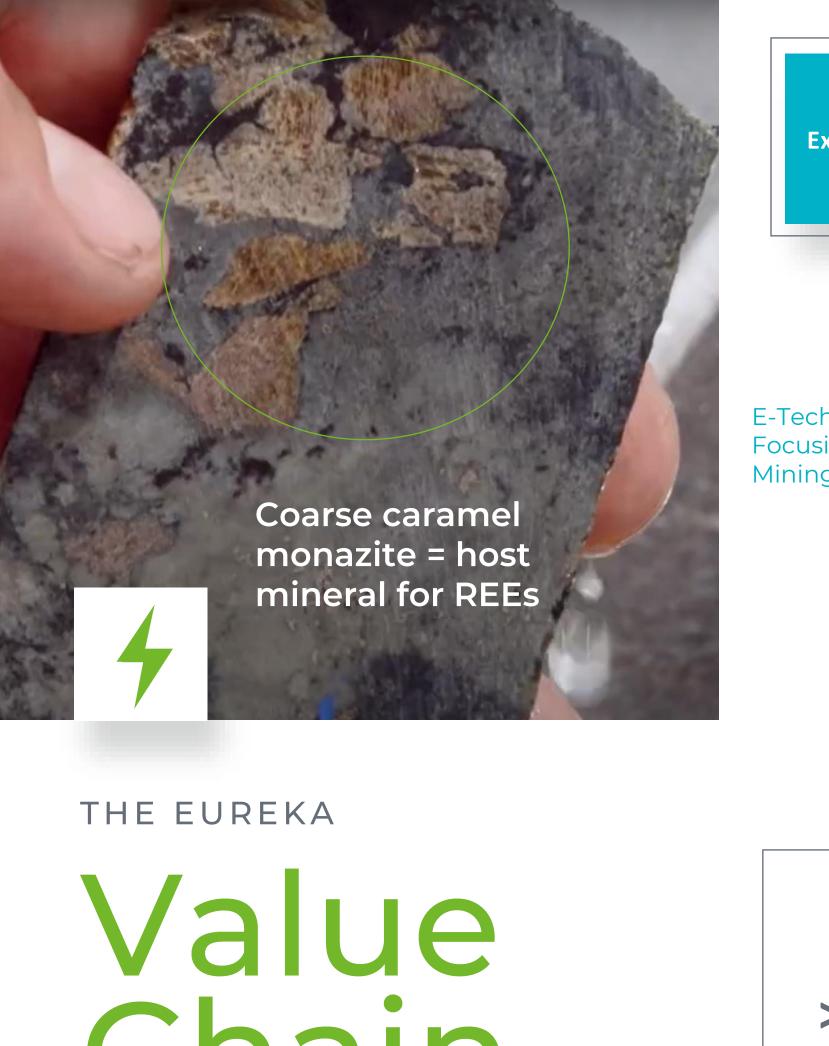
Compared to other Raw Minerals The REE processing chain is quite complex.



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

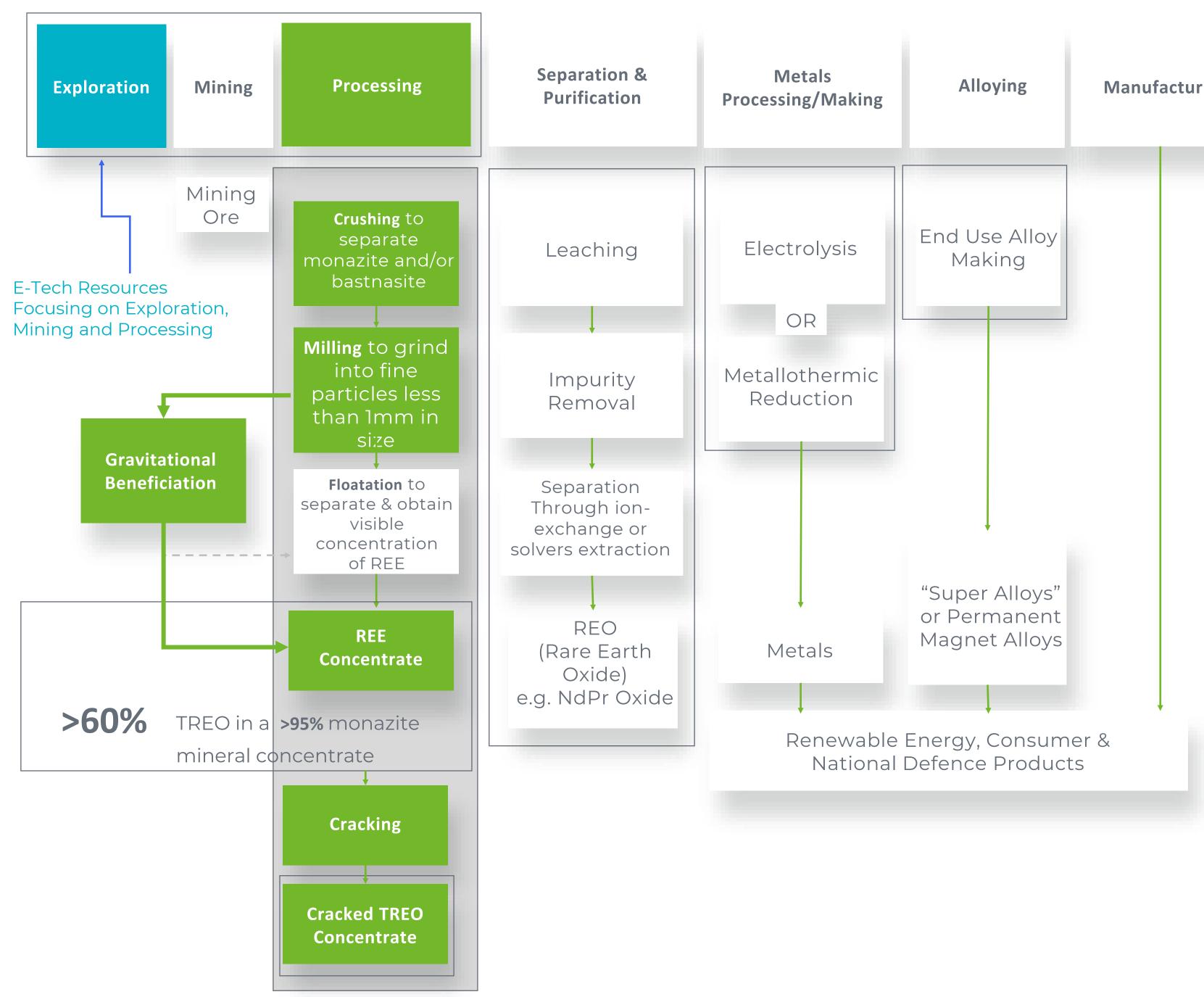
Opportunities

This can offer upside opportunities for early investors and traders.



Chain

Simple processing stages (ore beneficiation), at EUREKA



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ing		

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 NO HARSH

>65%

RECOVERY

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



AMENABLE SHIPPING OF PRODUCT Due to low

radioactive levels



CHEMICALS

NO **FLOTATION** REQUIRED

>60%

TREO GRADE



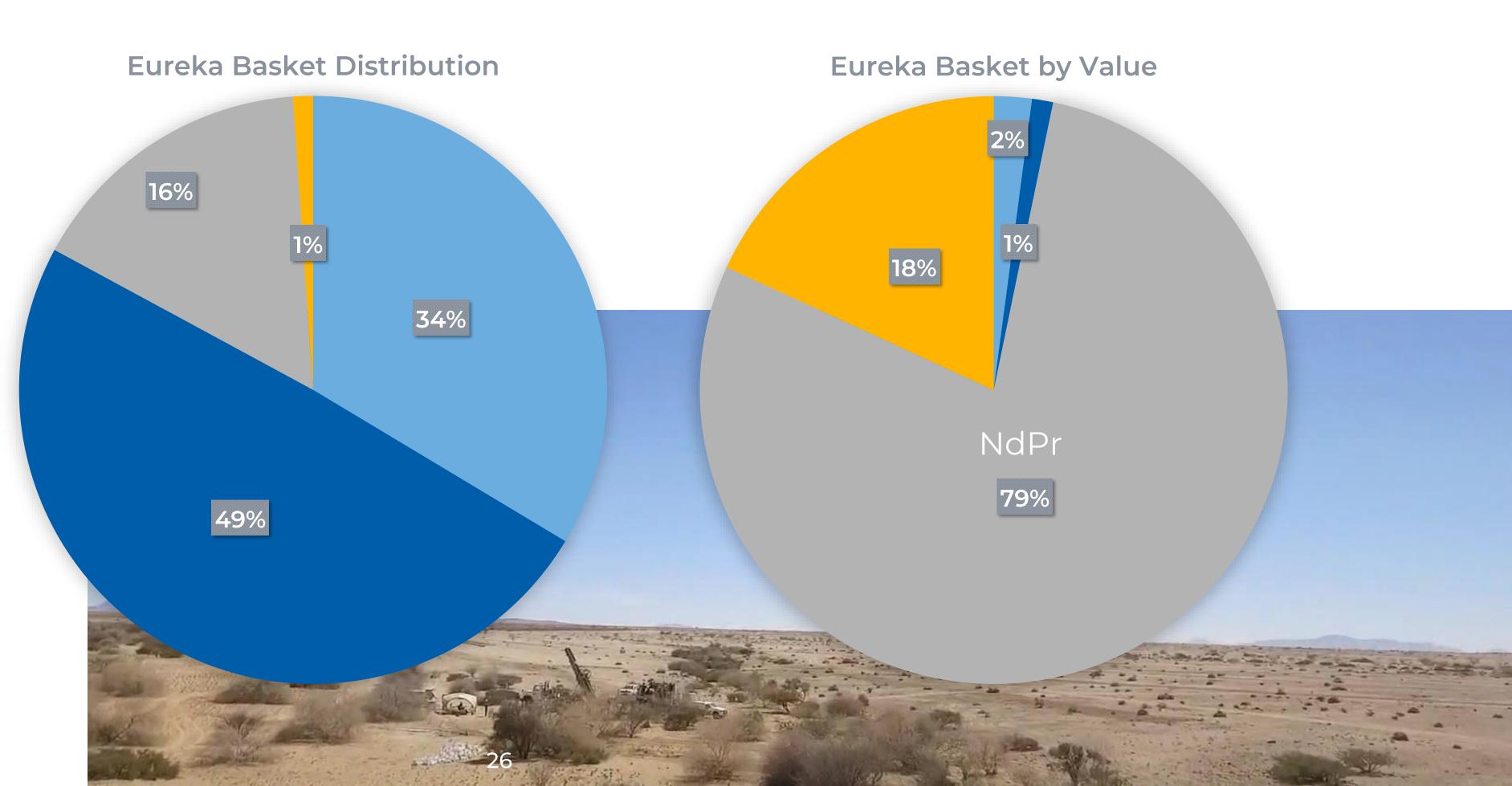
POTENTIAL LOW COST OF PRODUCTION **RELATIVE TO** COMPETITORS As confirmed by SGS Mineral Services



EUREKA'S AVERAGE

BASKET DISTRIBUTION BASKET BY VALUE

Cerium Lanthanum NdPr SEG + HREE



Notes:

NdPr - Neodymium & Praseodymium SEG - Samarium, European & Gadolinium HREE - Heavy Rare Earth Elements

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TREO CONCENTRATION

Project Benchmarking.

Eureka has a low risk and high sustainability profile

4

Eureka, Namibia

Steenkamps

kraal, RSA

Ngualla, Tanzania

Mineral Sand

DEPOSIT

Mount Weld,

Australia

Mountain

Pass, USA

Gakara,

Burundi

 High grade deposit and accessible geology 	Songwe, Malawi

- Easy ore and concentrate processability
- Mining-friendly jurisdiction
- Excellent infrastructure

=> Low-cost base and high IRR potential

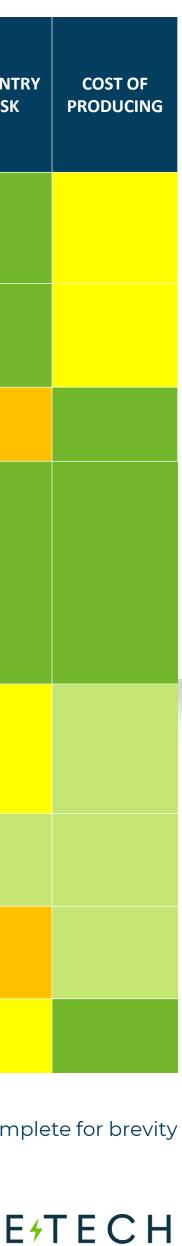
Advantageous

Disadvantageous

OPERATOR	PRODUCING YET?	DEPOSIT SIZE	PREDOMINANT MONO-MINERALIC REE ORE	GRAINSIZE OF TARGET ORE	EASE OF PROCESSING / RECOVERY	RADIO- ACTIVITY	ACCESS	COUNTRY RISK
Lynas			Monazite	Fine grain	Flotation			
Shenghe Resources			Bastnasite monazite	Medium	Flotation			
Gakara, Burundi			Bastnasite monazite	Large	Physical only			
E-Tech Metals		Delineation required	Monazite	Large	Physical only			
Mkango Resources			Synchysite apatite	Fine grain	Flotation Un-optimised			
Steenkamps kraal			Monazite	Large	Flotation	~6 wt. % Th		
Peak Resources			Bastnasite monazite	Fine grain	Flotation			
Madagascar			Monazite	Fine grain, liberated	Physical only	~10 wt. % Th		

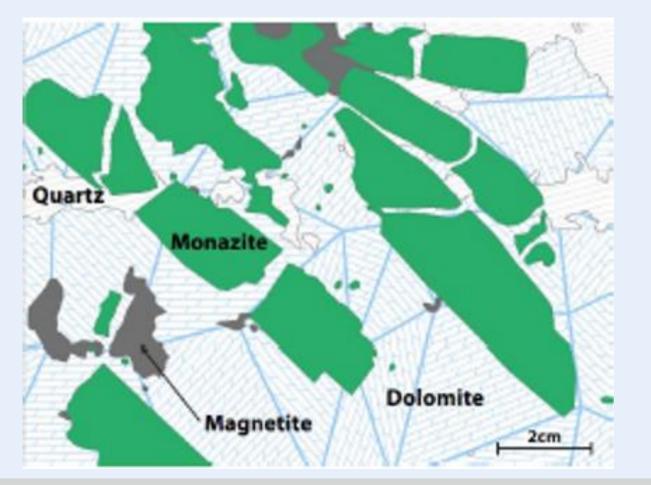
Information not complete for brevity

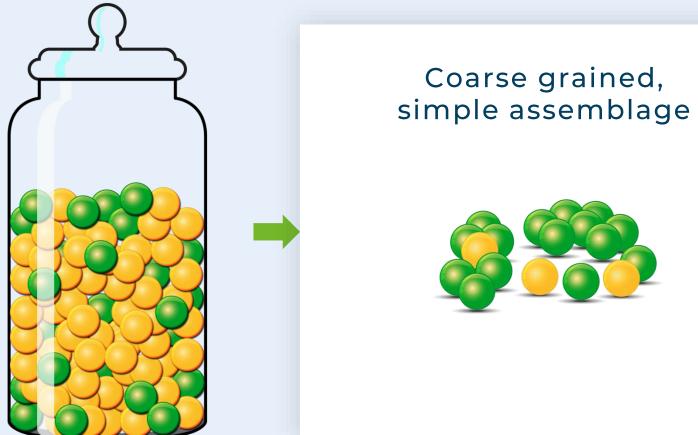




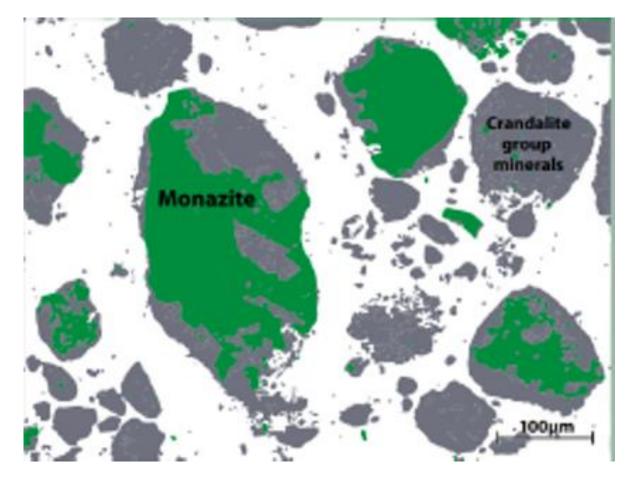
REE Project Beneficiation

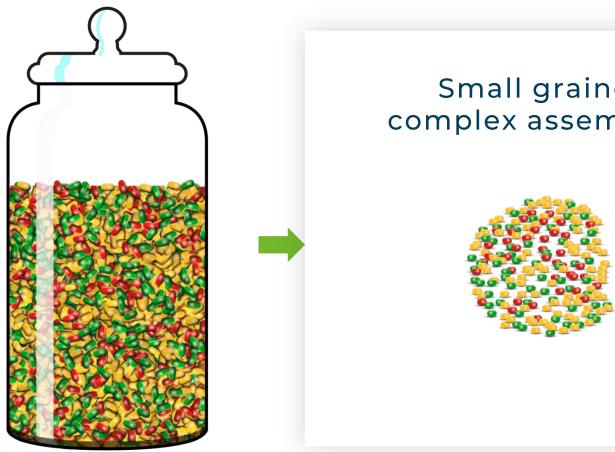
Unweathered carbonatite (Eureka)





Complex weathered carbonatite





For illustration purposes only





Eureka First Pass Recovery

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

Small grained, complex assemblage

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.



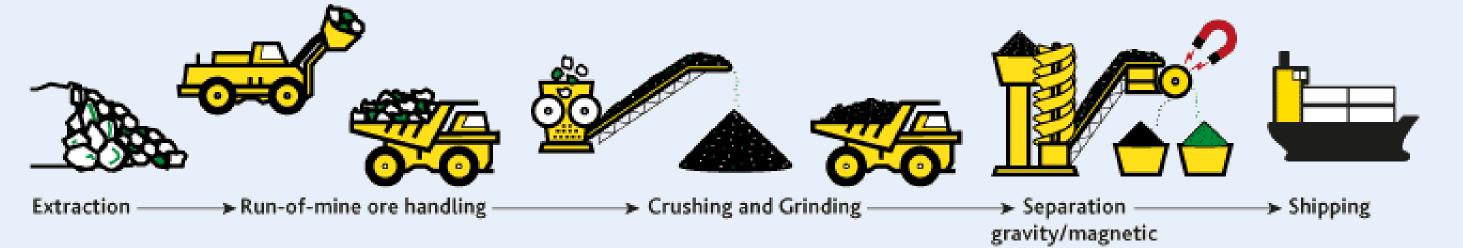




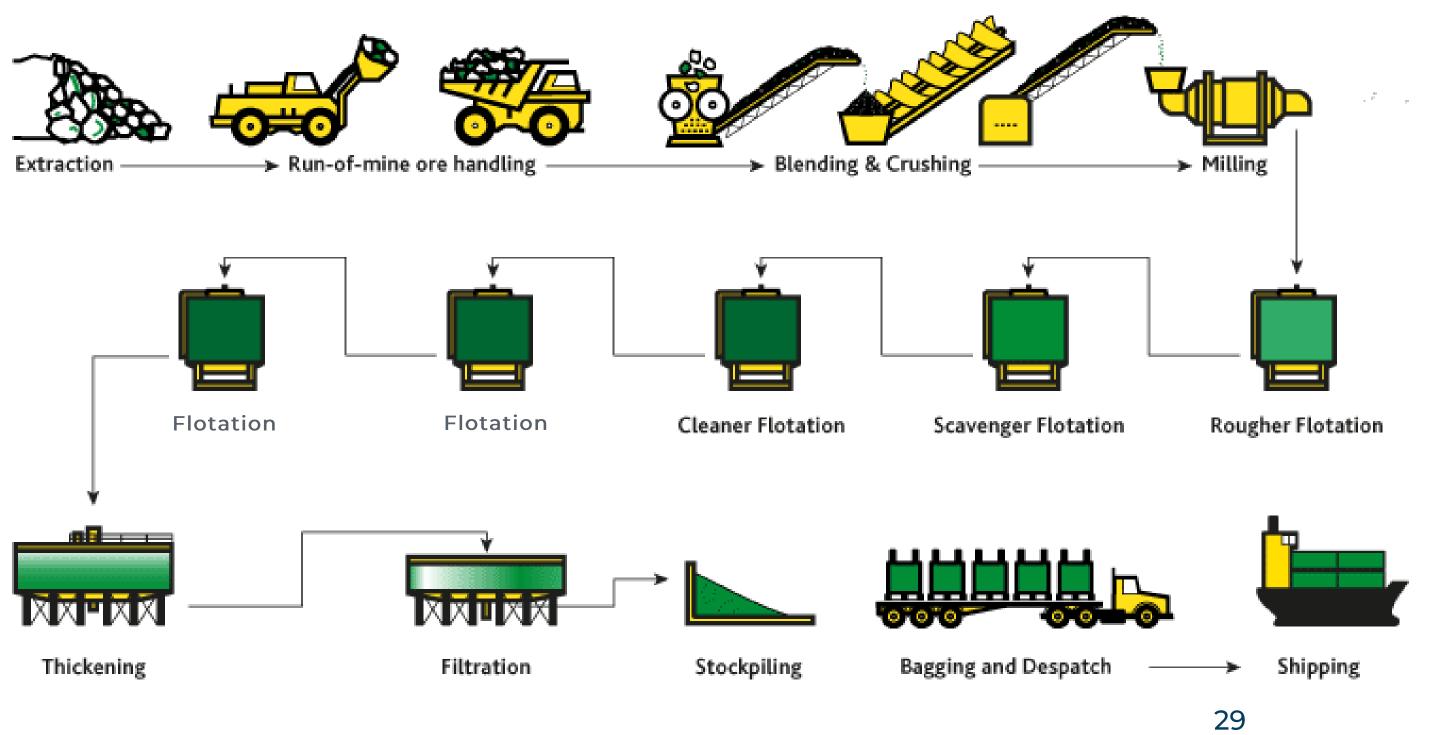


REE Project Beneficiation

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



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





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

Other Projects Low-grade

to mineral concentrate with ~40% TREO

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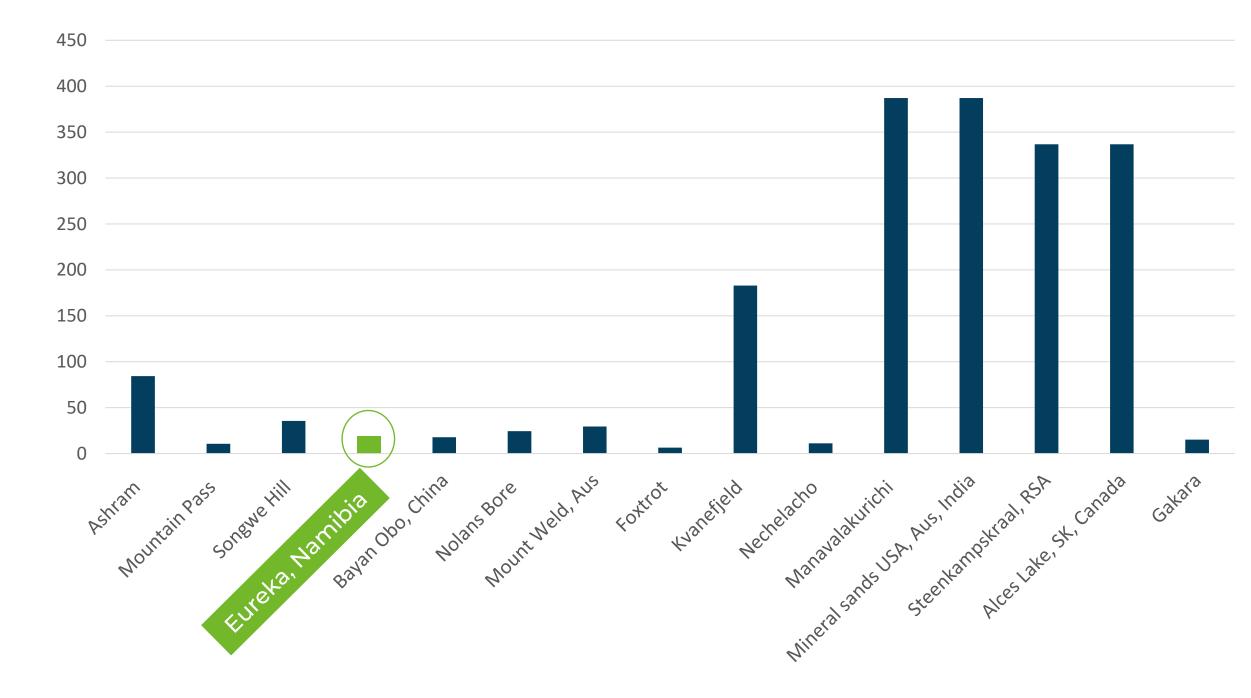




E+TECH



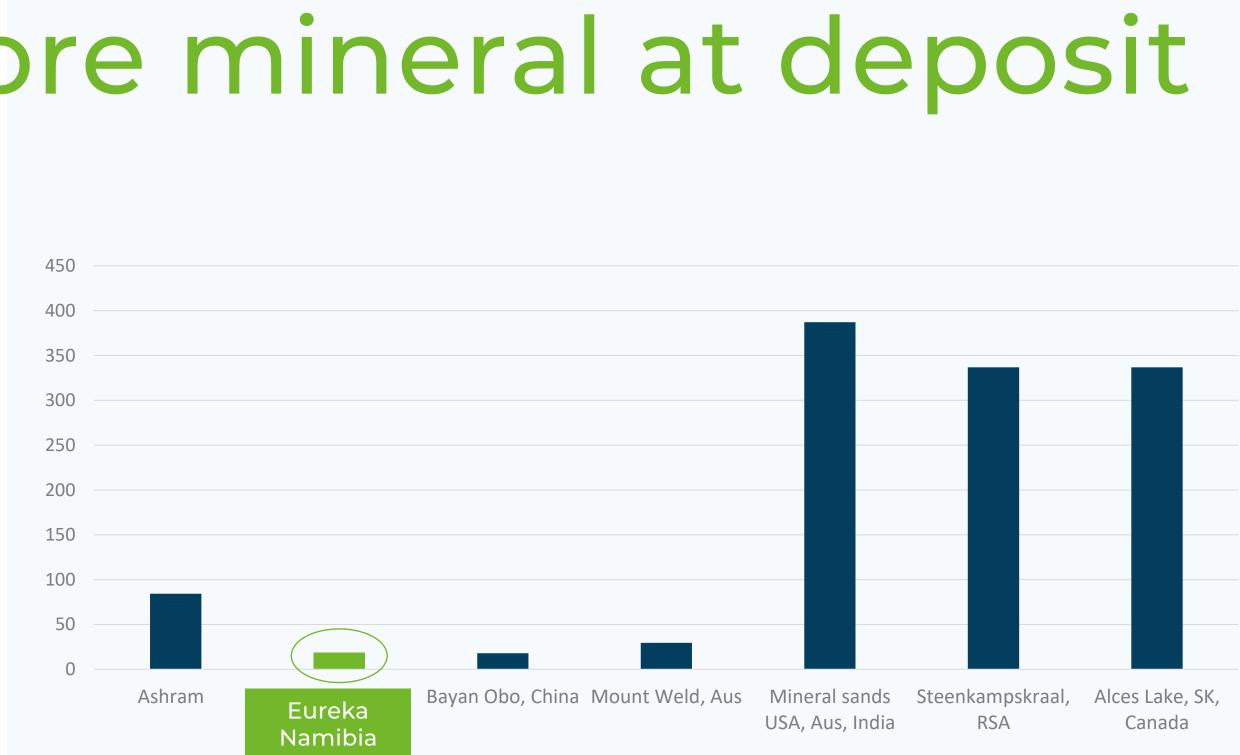
Radioactivity of REE ore mineral at deposit



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



PEER COMPARISON



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

EUREKA

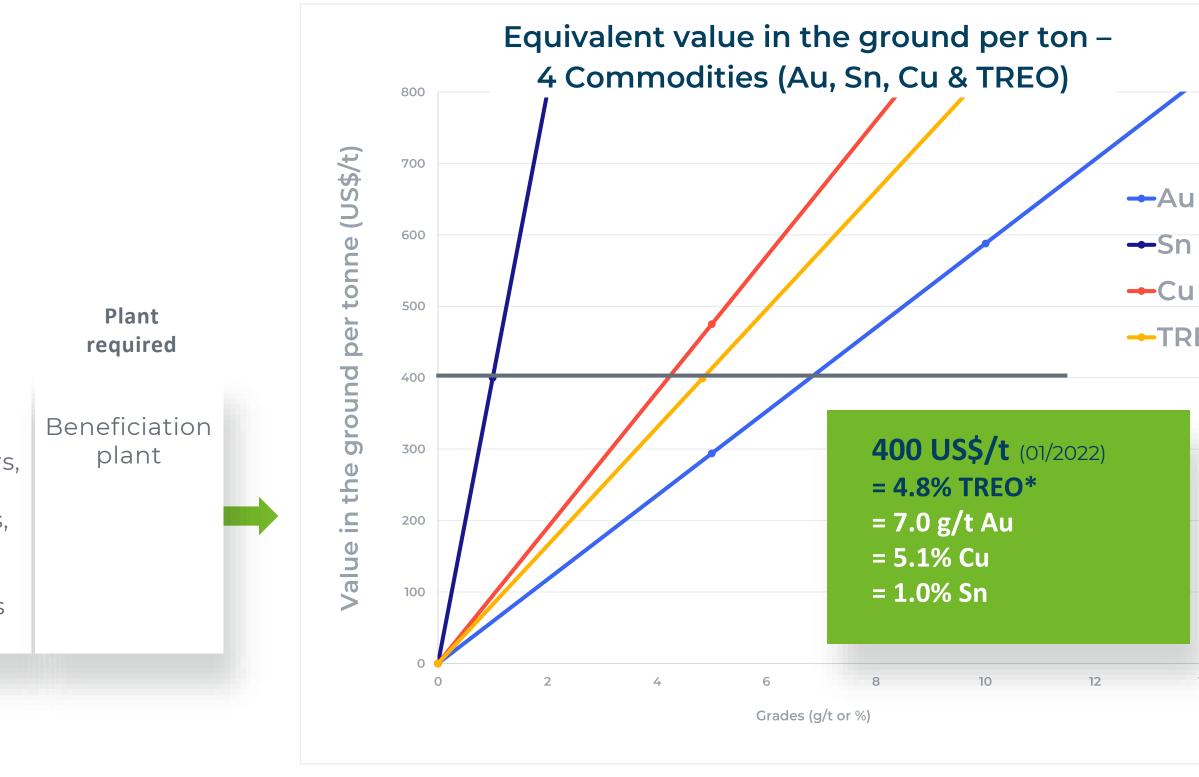
In-Situ Basket Value

Eureka in-situ equivalent value

Sales Options	Description	Key Value Drivers	Potential	Risk	Customer
Sell Mineral Concentrate	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
(>65 TREO%)					
					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

/	
g/t	
%	
%	
EO %	
14	16

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**

