



**DEFENSE
METALS**

Advancing North America's Next Rare Earth Mine

2024 ENERGY TRANSITION METALS SUMMIT – WASHINGTON, D.C.

[DEFENSEMETALS.COM](https://www.defensemotals.com)

TSX-V: **DEFN**
OTCQB: **DFMTF**
FSE: **35D**

DISCOVERY
GROUP

FORWARD-LOOKING STATEMENTS

This presentation includes certain statements that constitute "forward-looking information or statements" within the meaning of applicable securities law, including without limitation, the Company's plans for its Wicheeda REE project, other statements relating to the technical, financial and business prospects of the Company, completing additional studies, complete pre-feasibility study on Wicheeda project, advancing the Wicheeda project, environmental studies, optimize pilot plants, completing project milestones in 2023 and onwards, expected timelines, and other matters. Forward-looking statements address future events and conditions and are necessarily based upon a number of estimates and assumptions. These statements relate to analyses and other information that are based on forecasts of future results, estimates of amounts not yet determinable and assumptions of management. Any statements that express or involve discussions with respect to predictions, expectations, beliefs, plans, projections, objectives, assumptions or future events or performance (often, but not always, using words or phrases such as "expects" or "does not expect", "is expected", "anticipates" or "does not anticipate", "plans", "estimates" or "intends", or stating that certain actions, events or results "may", "could", "would", "might" or "will" be taken, occur or be achieved), and variations of such words, and similar expressions are not statements of historical fact and may be forward-looking statements. Forward-looking statements are necessarily based upon a number of factors that, if untrue, could cause the actual results, performances or achievements of the Company to be materially different from future results, performances or achievements expressed or implied by such statements. Such statements and information are based on numerous assumptions regarding present and future business strategies and the environment in which the Company will operate in the future, including the price of metals, anticipated costs and the ability to achieve goals, that general business and economic conditions will not change in a material adverse manner, that financing will be available if and when needed and on reasonable terms, and that third party contractors, equipment and supplies and governmental and other approvals required to conduct the Company's planned exploration activities will be available on reasonable terms and in a timely manner. While such estimates and assumptions are considered reasonable by the management of the Company, they are inherently subject to significant business, economic, competitive and regulatory uncertainties and risks.

Forward-looking statements are subject to a variety of risks and uncertainties, which could cause actual events, level of activity, performance or results to differ materially from those reflected in the forward-looking statements, including, without limitation: (i) risks related to rare earth elements, and other commodity price fluctuations; (ii) risks and uncertainties relating to the interpretation of exploration and metallurgical results; (iii) risks related to the inherent uncertainty of exploration and cost estimates and the potential for unexpected costs and expenses; (iv) that resource exploration and development is a speculative business; (v) that the Company may lose or abandon its property interests or may fail to receive necessary licences and permits; (vi) that environmental laws and regulations may become more onerous and risks related to adverse weather or climate events; (vii) that the Company may not be able to raise additional funds when necessary; (viii) the possibility that future exploration, development or mining results will not be consistent with the Company's expectations including risks relating to inaccurate geological, metallurgical and engineering assumptions; (ix) exploration and development risks, including risks related to accidents, equipment breakdowns, labour disputes or other unanticipated difficulties with or interruptions in exploration and development; (x) competition; (xi) the potential for delays in exploration or development activities or the completion of geologic reports or studies; (xii) the uncertainty of profitability based upon the Company's history of losses; (xiii) risks related to environmental regulation and liability; (xiv) risks associated with failure to maintain community acceptance, agreements and permissions (generally referred to as "social licence"), including local First Nations and risks relating to the impact of Covid-19 or other viruses and diseases on the Company's ability to operate (xv) risks relating to obtaining and maintaining all necessary government permits, approvals and authorizations relating to the continued exploration and development of the Company's projects; (xvi) risks related to the outcome of legal actions; (xvii) political and regulatory risks associated with mining and exploration; (xix) risks related to current global financial conditions; and (xx) other risks and uncertainties related to the Company's prospects, properties and business strategy. These risks, as well as others, could cause actual results and events to vary significantly.

Factors that could cause actual results to

differ materially from those in forward looking statements include, but are not limited to, continued availability of capital and financing and general economic, market or business conditions, the loss of key directors, employees, advisors or consultants, adverse climate and weather conditions, increase in costs, equipment failures, risks relating to unanticipated operational difficulties (including failure of equipment or processes to operate in accordance with specifications or expectations, cost escalation, unavailability of materials and equipment, government action or delays in the receipt of government approvals, industrial disturbances or other job action, and unanticipated events related to health, safety and environmental matters), risks relating to inaccurate geological, metallurgical and engineering assumptions, decrease in the price of rare earth elements, the impact of Covid-19 or other viruses and diseases on the Company's ability to operate, an inability to predict and counteract the effects of COVID-19 on the business of the Company, including but not limited to, the effects of COVID-19 on the price of commodities, capital market conditions, restriction on labour and international travel and supply chains, litigation, delayed results, failure of counterparties to perform their contractual obligations and fees charged by service providers.

Investors are cautioned that forward-looking statements are not guarantees of future performance or events and, accordingly are cautioned not to put undue reliance on forward-looking statements due to the inherent uncertainty of such statements. The forward-looking statements included in this presentation are made as of the date hereof and the Company disclaims any intention or obligation to update or revise any forward-looking statements, whether as a result of new information, future events or otherwise, except as expressly required by applicable securities legislation. The Company has a limited history with no assurance of revenues; estimating mineral resources is risky; exploration and development is speculative and may not result in profitable mining operations; exploration, development, and mining requires substantial capital, resulting in significant financing risks and shareholder dilution. The key risks related to exploration in general are that chances of identifying economical reserves are extremely small. The scientific and technical content of this presentation has been reviewed and approved by Kris Raffle, P. Geo., a Director of the Company and a Qualified Person as defined by National Instrument 43-101. Visit www.sedarplus.ca for further information and disclosure on the for the Wicheeda Rare Earth Element Project, British Columbia, Canada and the Company.

Market & Industry Data

The information contained herein includes market and industry data that has been obtained from third party sources, including industry publications. The Company believes that its industry data is accurate and that its estimates and assumptions are reasonable, but there is no assurance as to the accuracy or completeness of this data. Third party sources generally state that the information contained therein has been obtained from sources believed to be reliable, but there is no assurance as to the accuracy or completeness of included information. Although the data is believed to be reliable, the Company has not independently verified any of the data from third party sources referred to in this presentation or ascertained the underlying economic assumptions relied upon by such sources. Not for Distribution; No Offering This is for information purposes only and may not be reproduced or distributed to any other person or published, in whole or part, for any purpose whatsoever. This does not constitute a general advertisement or general solicitation or an offer to sell or a solicitation to buy any securities in any jurisdiction. Such an offer can only be made by prospectus or other authorized offering document. This presentation and materials or fact of their distribution or communication shall not form the basis of, or be relied on in connection with any contract, commitment or investment decision whatsoever in relation thereto. No securities commission or similar authority in Canada or any other jurisdiction has in any way passed upon the adequacy or accuracy of the information contained herein. You should not rely upon this document in evaluating the merits of investing in our securities or for understanding our business.



AGENDA

- **What are REEs?**
- **Why do we need REEs?**
- **Current Market Trends and Opportunities**
- **Defense Metals and the Wicheeda Deposit**
- **Strategic Partnerships and Collaborations**
- **Summary**



WHAT ARE RARE EARTH ELEMENTS "REES"

17 Rare Earth Elements:

- **Sc** - Scandium
- **Y** - Yttrium
- **La** - Lanthanum
- **Ce** - Cerium
- **Pr** - Praseodymium
- **Nd** - Neodymium
- **Pm** - Promethium
- **Sm** - Samarium
- **Eu** - Europium
- **Gd** - Gadolinium
- **Tb** - Terbium
- **Dy** - Dysprosium
- **Ho** - Holmium
- **Er** - Erbium
- **Tm** - Thulium
- **Yb** - Ytterbium
- **Lu** - Lutetium

Rare Earth Elements

H																	He
Li	Be											B	C	N	O	F	Ne
Na	Mg											Al	Si	P	S	Cl	Ar
K	Ca	Sc	Ti	V	Cr	Mn	Fe	Co	Ni	Cu	Zn	Ga	Ge	As	Se	Br	Kr
Rb	Sr	Y	Zr	Nb	Mo	Tc	Ru	Rh	Pd	Ag	Cd	In	Sn	Sb	Te	I	Xe
Cs	Ba	*	Hf	Ta	W	Re	Os	Ir	Pt	Au	Hg	Tl	Pb	Bi	Po	At	Rn
Fr	Ra	**	Rf	Db	Sg	Bh	Hs	Mt	Ds	Rg	Cn	Uut	Fl	Uup	Lv	Uus	Uuo

*	La	Ce	Pr	Nd	Pm	Sm	Eu	Gd	Tb	Dy	Ho	Er	Tm	Yd	Lu
**	Ac	Th	Pa	U	Np	Pu	Am	Cm	Bk	Cf	Es	Fm	Md	No	Lr



Light Rare Earth Element



Heavy Rare Earth Element



THE CRITICAL ROLE OF RARE EARTH ELEMENTS – APPLICATIONS

AGRICULTURE

- Farm equipment motors
- Fertilizers

AUTOMOTIVE

- Electric Vehicle Motors
- Catalytic converters

AEROSPACE/ DEFENSE

- Plane Motors
- Submarines
- Guidance equipment
- Thermal barrier coatings

CHEMICALS/ CATALYSTS

- Optical-quality glass
- Air pollution control

HEALTHCARE

- MRI scanners
- CT scanners

ELECTRONICS

- Computer screens
- Smartphones
- Batteries
- Hard drives

POWER GENERATION

- Wind turbines
- Other power generators



RARE EARTH MAGNETS – NEODYMIUM & PRASEODYMIUM

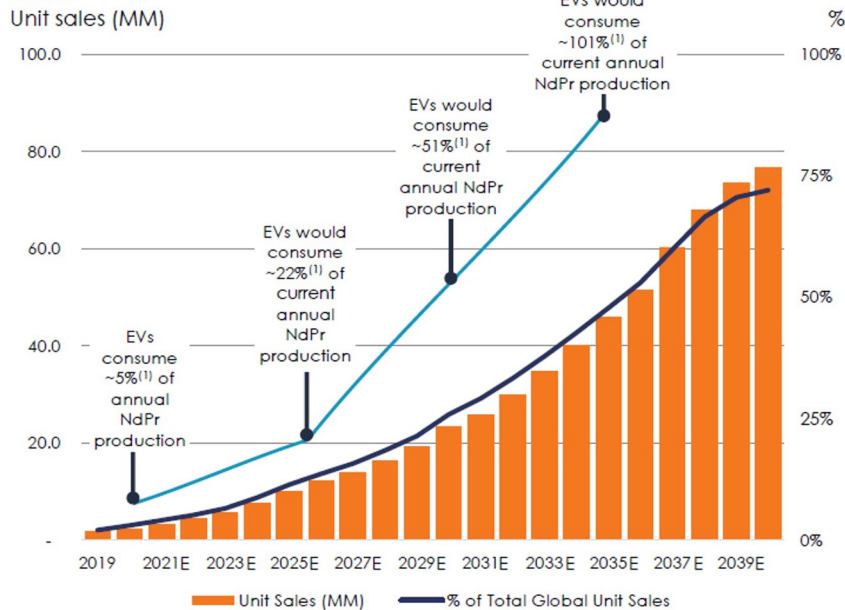
- **Neodymium** and **Praseodymium** are important components in the production of **strong permanent magnets**, which play a crucial role in modern technologies such as **electric vehicles, wind turbines**, and various **electronic devices**.
- The combination of neodymium and praseodymium is commonly referred to as “**NdPr**” and it is particularly valued for its role in **enhancing the performance** of neodymium magnets.



ELECTRIC VEHICLES

A Driver for Rare Earth Demand

Global Electric Vehicle Units Sales / % of Global Total Vehicle Unit Sales



Source: MP Materials, Morgan Stanley, CRU



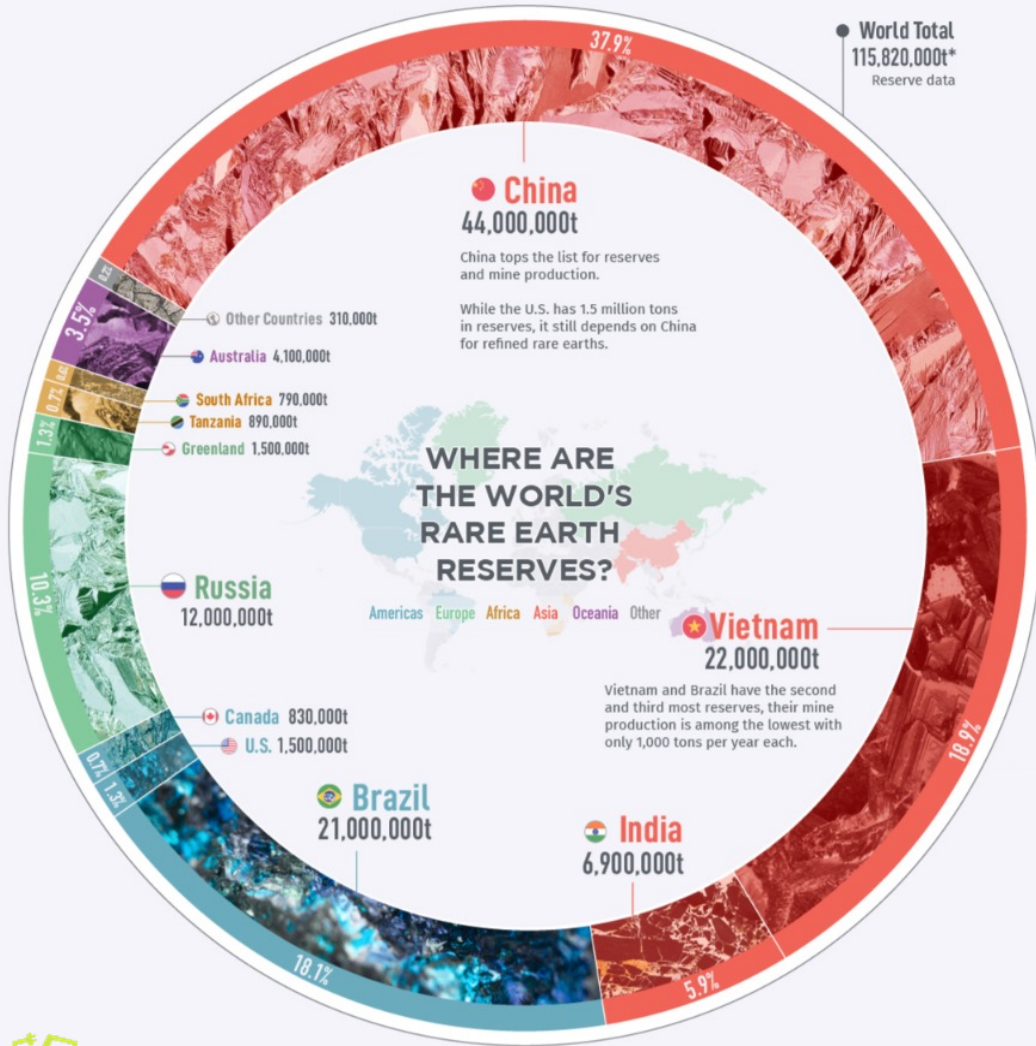
TSX-V: DEFN DEFENSEMETALS.COM

- An electric vehicle (EV) uses 1kg to 3kg of neodymium-iron-boron (NdFeB) magnets in standard drivetrain motors
- NdFeB magnets are in 93% of all electric vehicles. Tesla, GM, Ford, VW, Hyundai, Toyota and others build vehicles using these magnets
- Every ten million new EVs require ~10,000 tonnes of additional neodymium or ~20% of current annual global supply.
- Over 70 million electric vehicles are expected to be sold when internal-combustion-engine vehicles are phased out

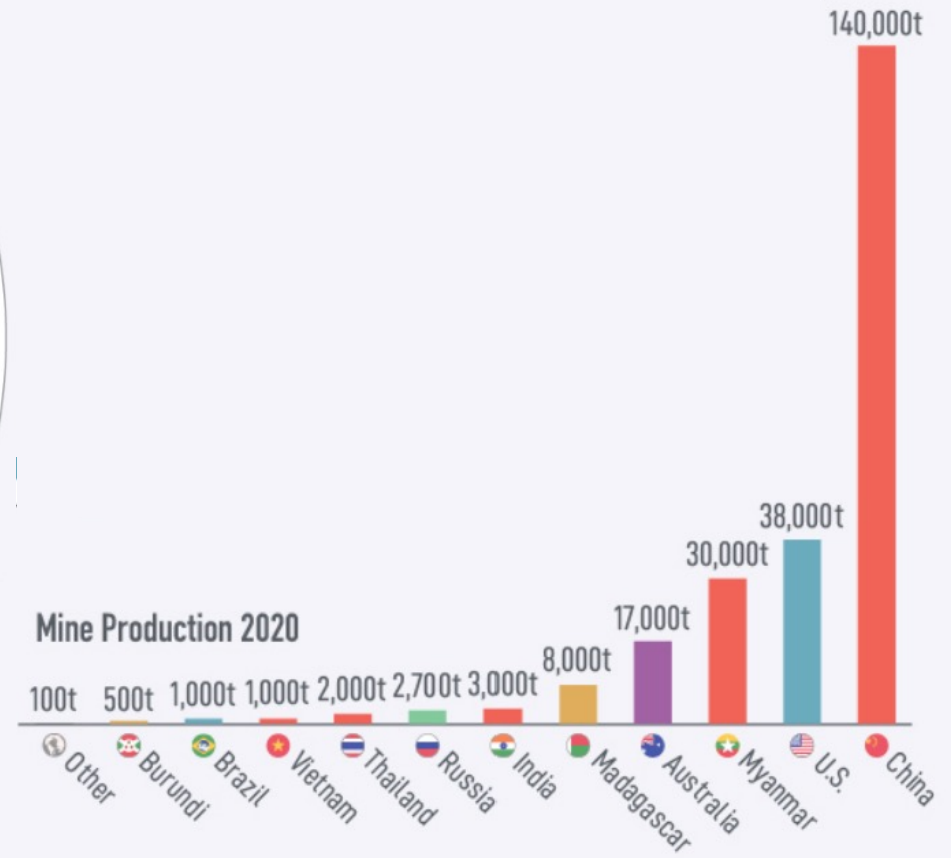
DEFENSE APPLICATIONS

- The strategic importance of rare earth magnets lies in their critical role in enhancing the performance, efficiency, and precision of various technologies that are integral to defense applications.
- Rare earth magnets are vital for various defense applications, including:
 - ❖ Precision-guided missiles
 - ❖ Radar systems
 - ❖ Communication devices
 - ❖ Night vision
 - ❖ Aircraft components
 - ❖ Sensors and jamming devices
- The strategic importance of rare earth elements to defense applications has led to **concerns about the global supply chain** and potential vulnerabilities.





WHERE ARE ALL THE REES?



CHINA DOMINATES THE RARE EARTHS MARKET

63%

MINING

85%

PROCESSING

92%

MAGNET PRODUCTION

- Governments in various countries were implementing policies to **secure supply** of rare earth elements and **reduce reliance** on a single source.
- Diversification helps the U.S. **avoid vulnerabilities** associated with geopolitical tensions.



DEFENSE METALS – INVESTMENT HIGHLIGHTS

- **High-Quality Asset**
100% owned Wicheeda rare-earth project, with potential to be a globally significant producer
- **Excellent Accessibility**
Project accessible by road, with proximity to rail and power infrastructure, and access to a major deep-sea port
- **Technically Strong Project**
Open pit project with favorable, conventional metallurgy
- **Experienced Technical Team**
Working with industry-leading partners (SGS, SRK Consulting, APEX Geoscience, Hatch)



STRATEGIC LOCATION

- Strategically positioned 80 km from Prince George and accessible from a major forestry service road, which connects to **Highway 97**
- The 100% owned 8,301-hectare Wicheeda deposit, has power transmission lines, a gas pipeline and a major rail line nearby
- Prince George, British Columbia, is a mining centre, with a skilled workforce
- **Port of Prince Rupert is 500km to the west and accessible by rail and road**



PRINCE RUPERT PORT, EXPANSION PLANNED BY 2024



PRINCE GEORGE TRAIN YARD



EQUITY PARTNERSHIP WITH McLEOD LAKE INDIAN BAND

- Equity Stake Purchase
- Co-Design Agreement
- Transformative Collaboration
- Contribution to Clean Energy Transition



"McLeod Lake Indian Band values its partnership with Defense Metals, and together, we are pioneering a new standard in collaborative project development, which is a true form of reconciliation. We're proud to be a part of a project that will be a key contributor to global energy transition goals, and one that will deliver long-term economic benefits to our community for generations to come."

— **McLeod Lake Indian Band Chief Harley Chingee.**



MINERAL RESOURCE

The 2023 MRE comprises a 6.4 million tonne Measured Mineral Resource, averaging 2.86% (TREO)¹; 27.8 million tonne Indicated Mineral Indicated Resource, averaging 1.84% TREO; and 11.1 million tonne Inferred Mineral Resource, averaging 1.02% TREO, reported at a cut-off grade of 0.5% TREO

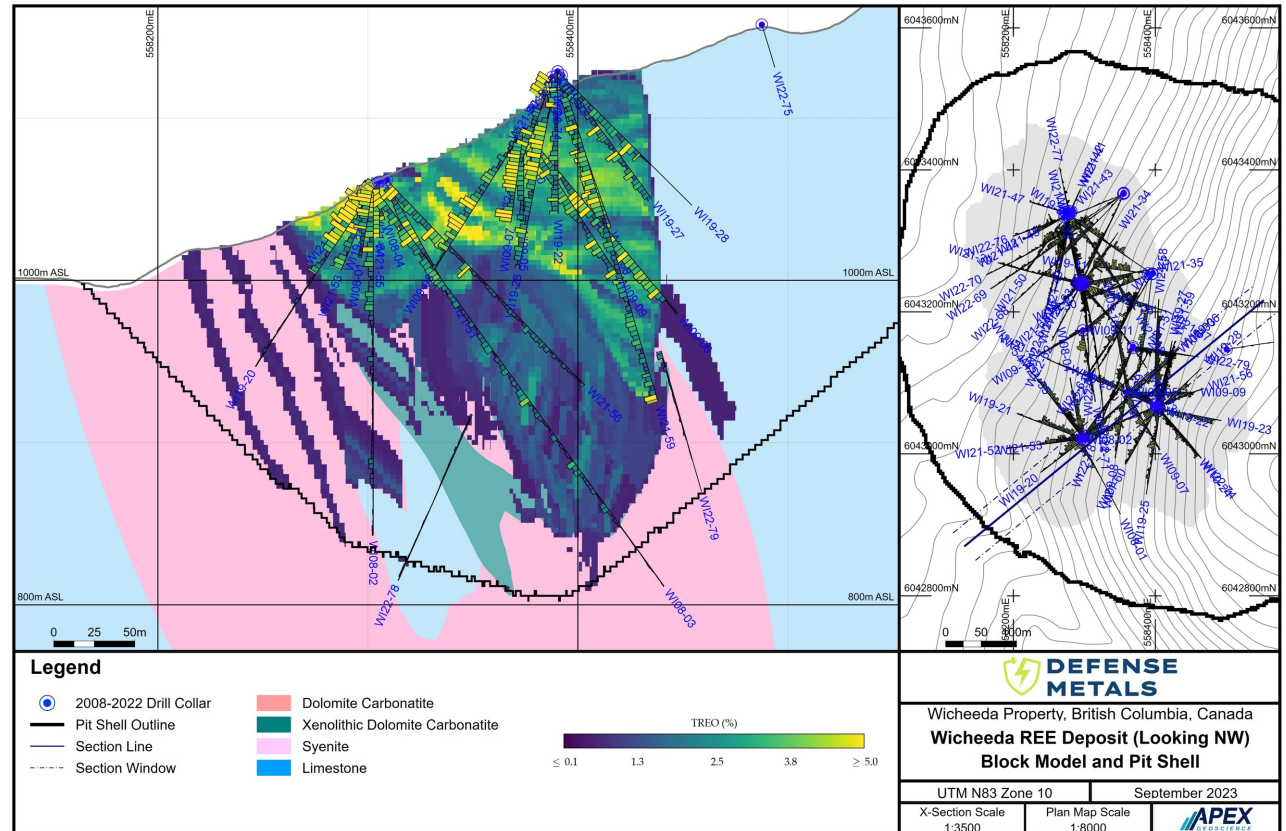
Category	Tonnes (Million)	Grade > Cutoff											
		TREO ² (%)	TREO (kT)	CeO ₂ (%)	La ₂ O ₃ (%)	Pr ₆ O ₁₁ (%)	Nd ₂ O ₃ (%)	Sm ₂ O ₃ (ppm)	Gd ₂ O ₃ (ppm)	Eu ₂ O ₃ (ppm)	Dy ₂ O ₃ (ppm)	Tb ₄ O ₇ (ppm)	Ho ₂ O ₃ (ppm)
Measured	6.4	2.86	183	1.39	1.00	0.11	0.31	312	139	63	35	12	4
Indicated	27.8	1.84	516	0.89	0.62	0.07	0.21	232	111	50	32	10	4
M+I	34.2	2.02	699	0.98	0.69	0.08	0.23	247	116	52	32	10	4
Inferred	11.1	1.02	113	0.50	0.31	0.04	0.13	166	91	38	35	9	5

1) Total rare earth oxide, sum of 10 oxides: CeO₂, La₂O₃, Nd₂O₃, Pr₆O₁₁, Sm₂O₃, Eu₂O₃, Gd₂O₃, Tb₄O₇, Dy₂O₃ and Ho₂O₃
 See Defense Metals News Release Dated September 12, 2023

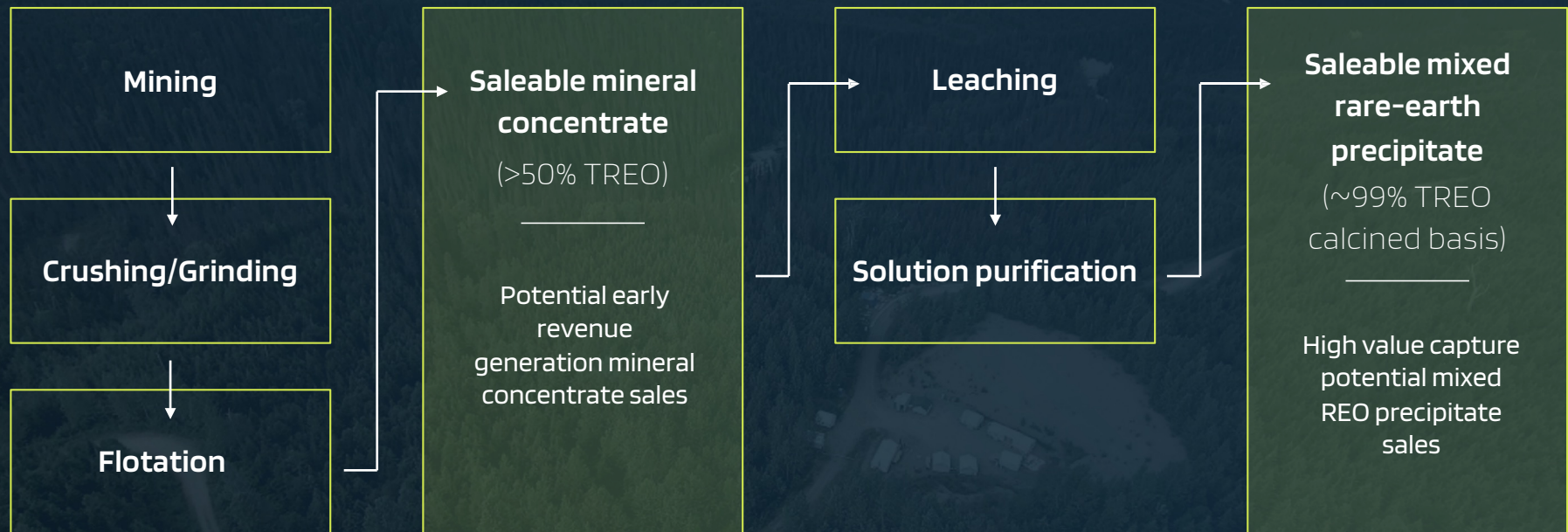


RESOURCE BLOCK MODEL AND CONCEPTUAL PIT SHELL

High-grade rare earths at surface



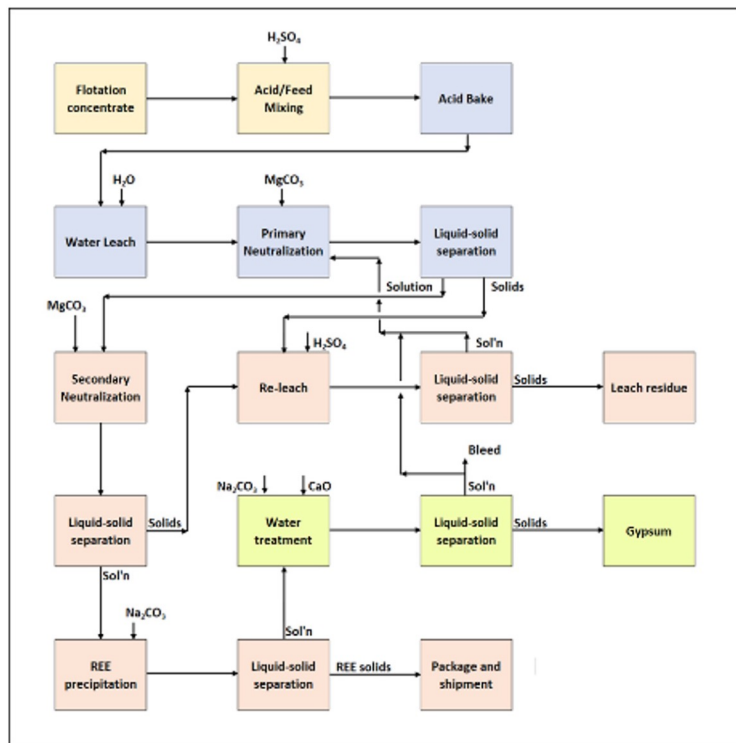
WICHEEDA FLOWSHEET



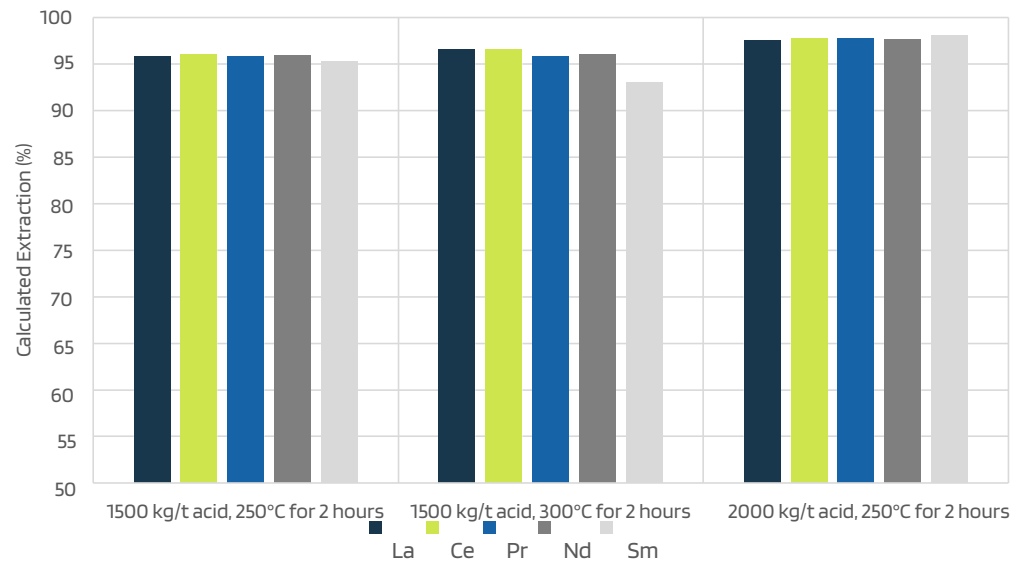
The flowsheet will be finalized with the PFS which is expected to be completed in H1-2024



HYDROMETALLURGY FLOWSHEET – Acid Bake, Preliminary Results



>95% recovery of Neodymium and Praseodymium from Flotation Concentrate Into Leach Solution



MINERALOGY AND HIGH-GRADE CONCENTRATE COMPARED TO GLOBAL PRODUCING DEPOSITS

Project	Stage	Grade (%TREO)	Flotation Concentration Grade and Recovery	Mineralogy	Annual Production
Wicheeda Canada	PFS underway	2.02%¹	50% TREO, 60-80% recovery	Parasite/ Bastnaesite + Monazite	~25,000 tpy TREO est
Mt. Pass (MP Materials, MP-NYSE) ^{2,3} USA	Producer	8%	60% TREO, 67% recovery	Bastnaesite	~40,000 tpy TREO
Mt. Weld (Lynas Corp., LYC-ASX) ^{2,3} Australia	Producer	7%	40% TREO, 70% recovery	Monazite	~20,000 tpy TREO
Bayan Obo ^{2,3} China	Producer	6%	50% TREO, 60% recovery	Bastnaesite, Monazite	~50,000 tpy TREO
Sichuan ⁴ China	Producer	3.7%	50% - 60% TREO	Bastnaesite	~ 30,000 TREO

1) See Defense Metals News Release Dated September 12, 2023 & February 13, 2024

2) Verbaan, N., Bradley, K., Brown, N., and Mackie, S., 2015 A review of hydrometallurgical flowsheets considered in current REE projects. In: Simandl G.J. and Neetz, M. (Eds.). Symposium on Strategic and Critical Materials Proceedings. November 13-14, 2015, Victoria, BC EMPR, BCGS Paper 2015-3, pp. 147-162

3) These are commercial operations, and the results of Defense Metals' current results are from controlled lab testing and are not comparable

4) Ling ZHI LI, Xiaosheng YANG, ERES2014



LEADING NORTH AMERICA'S SUPPLY CHAIN

Targeting
25,000 tonnes REO,
 ~10% of current
 global production¹

		Supply Chain		
		Mining & Mineral Upgrade	Cracking	Separation
Production (tonnes REO)	Country	Ore Conc	Mixed Chemical Conc	Separate Oxides
140,000	China	China	China	China
38,000	United States	United States	China	China
30,000	Myanmar	Myanmar	Myanmar, China	China
25,000	WICHEEDA	CANADA	PFS UNDERWAY	TO BE STUDIED
17,000	Australia	Australia	Malaysia	Malaysia, China
3,000	India	India	India	India
2,700	Russia	Russia	Estonia	Estonia
4,000	Madagascar	Madagascar	China	China
2,000	Thailand	Thailand	Thailand	Thailand
1,000	Brazil	Brazil	Brazil	Brazil
1,000	Vietnam	Vietnam	Vietnam	Vietnam
500	Burundi	Burundi	China	China

¹ Source: USGS Rare Earth Mineral Commodity Summary, 2021



PROJECT TIMELINE

Completed in 2022:

Acquired 100% of Wicheeda
Completed 10,859m in late 2021 through 2022
Completed geotechnical drilling

Adopted acid bake process flowsheet
Produced high-grade concentrate from a pilot plant
Signed agreement with First Nations
Raised ~\$12.06M

2024 Plans

H1 2023

- Completed hydromet pilot plant
- Started pre-feasibility study
- Advanced environmental studies

H2 2023

- Optimization and scale up of flotation and hydromet pilot plants
- Engage potential offtake partners

H1 2024

- Complete pre-feasibility study

H2 2024

- Start feasibility study

2025

- Optimization and scale up of flotation and hydromet pilot plants



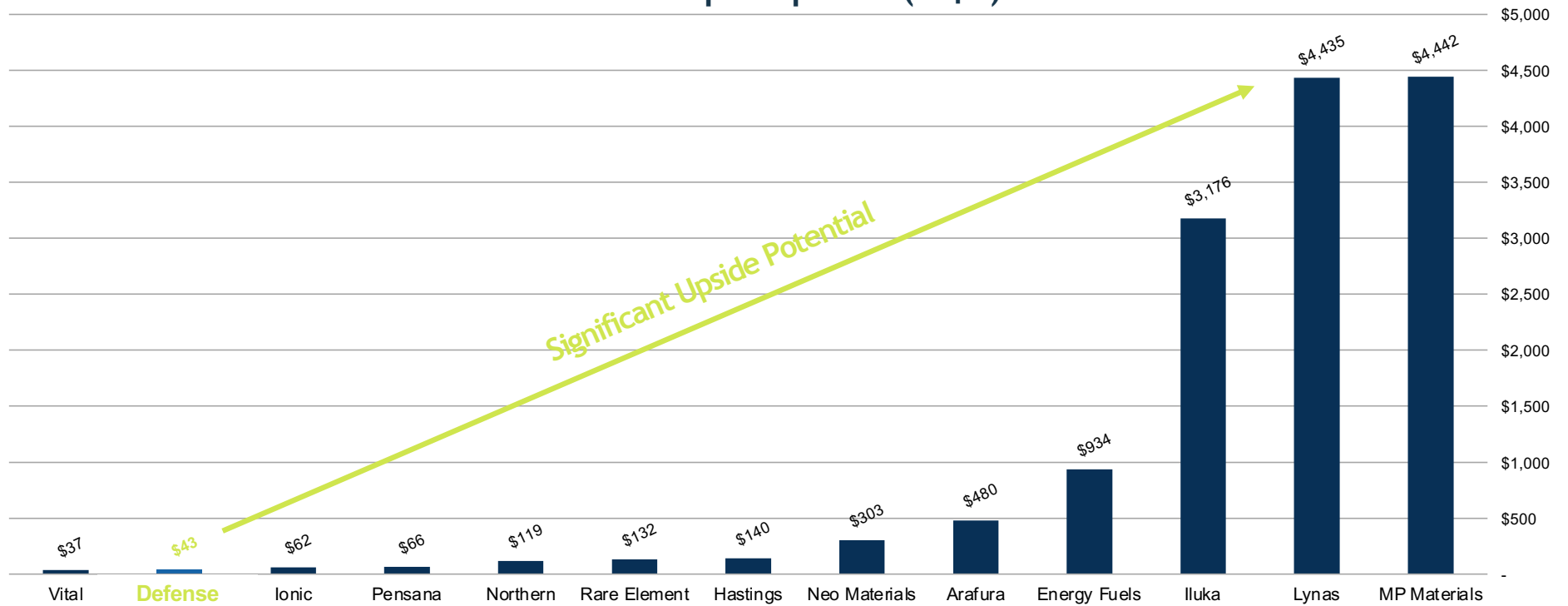
STRATEGIC PARTNERSHIPS & COLLABORATIONS

- **Government of Canada (GOC): Critical Minerals Infrastructure Fund (CMIF)**
- **US Inflation Reduction Act (IRA)**
- **US Department of Defense (DOD): Defense Production Act (DPA)**
- **US Department of Energy (DOE)**
- **Off-Take Partners**
- **Down-Stream Integration**
- **Joint Ventures**



RE-RATING POTENTIAL

Market Cap Comparison (US\$M)



SUMMARY

- REEs are the set of 17 rare earth elements with unique properties needed in critical components of **EVs** and **Military Applications**
- **2X supply** of REEs needed to meet EV demand alone by 2030
- Securing of the **Supply-chain** requires **immediate action** with friendly partners
- Defense Metal's **Wicheeda Deposit** poised to be the **North American's Next REE Mine**
- Advancing development through **Strategic Partnerships** and **Non-dilutive** financing
- **Re-valuation** of Defense Metals as Wicheeda is **Financed** and **De-risked**



MADE IN CHINA



TSX-V: DEFN DEFENSEMETALS.COM



DEFENSE METALS

CONTACT

Alex Heath, VP Corporate Development

alex@defensemetals.com

+1 (604) 354-2491

228-1122 Mainland Street

Vancouver, BC V6B-5L1

DEFENSEMETALS.COM

EXCHANGE LISTINGS

TSX-V: **DEFN**

OTCQB: **DFMTF**

FSE: **35D**

DISCOVERY
GROUP



TSXV:DEFN / US:DFMTF