

VITAL METALS (ASX: VML)

2023 AGM Presentation

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Compliance Statements: This presentation contains information relating to Mineral Resource Estimates for the Nechalacho Project extracted from an ASX market announcement reported previously and published on the ASX platform on 14 February 2023, titled "Vital achieves 26% increase in Tardiff Mineral Resource Tonnes and 19% increase in contained NdPr". The Company confirms that it is not aware of any new information or data that materially affects the information included in the original market announcement and that all material assumptions and technical parameters underpinning the estimates in the original market announcement continue to apply and have not materially changed.

This presentation contains information relating to Exploration Results extracted from ASX market announcement "Vital intersects up to 2.8% TREO in drilling at Tardiff" reported previously in accordance with the 2012 edition of the "Australasian Code for Reporting of Exploration Results, Mineral Resources and Ore Reserves" (**2012 JORC Code**) and published on the ASX platform on 30 May 2023. The Company confirms that it is not aware of any new information or data that materially affects the information included in the original market announcements.

Authorisation: This presentation is authorised for market release by the Board of Vital Metals.

All currency amounts are in Australian dollars unless specified otherwise.

Corporate Strategy: Asset, Jurisdiction and Capability



Leveraging Asset Qualities, Jurisdiction and Capability to Develop a North American Rare Earth Supply Chain

Pathway to Enabling a North American Rare Earth Supply Chain



Asset Qualities: grade, size and compositional virtues of the Tardiff deposit

- Tardiff provides a differentiated value proposition given grade, size and rare earth composition
 - Focusing on grade and product differentiation to achieve value at lower risk (virtues of NdPr market)
 - Drilling to grade and system extension- maximizing value and risk for MRE, mining & processing

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Jurisdictional Premium: combining asset surety with drivers for North American integration

- Domicile Advantages
 - 1st world jurisdiction: asset ownership, financial stability and framework
 - Funding and regulatory priorities to enable capability for North American rare earth supply
 - Advancing permitting through capability, and agency partnership through engagement



Skill Set Advantages: leveraging technical skill sets to enable and de-risk

- Marrying capabilities to heighten value and de-risk pathway
 - Integration of front-end capability with rare earth market expertise (a rare combination)
 - Early feedback on market and value analysis, and metallurgical process pathway(s) de-risks and augments technical studies to affirm direction optimizing value, cost and time parameters
 - Early material parametrization and feedback to inform augmented scoping study (streamlining future)



Jurisdiction: Vertical Integration is a Key Driver

Tardiff's scale, grade and location offer attractive qualities to a North American Market

Focusing on the largest known REE deposit at Nechalacho

- Vital aims to develop Tardiff to become a large-scale, long-life rare earth producer and is focused on key milestones:
 - ✓ Completing scoping and trade-off studies
 - ✓ Updating existing permits
 - ✓ Work collaboratively with Shenghe to frame orientation toward markets of value and size

A World Looking to Integrate Vertically

- 1st world jurisdiction advantages
 - ✓ Asset ownership and fiscal regime stability

compounded by:

- ✓ Critical minerals focus
- Funding and regulatory advantages to project maturation and funding





Asset: Tardiff and a Picture of Differentiation



Nechalacho: A Larger REE-rich System showing shallow grade

Overview

• Tardiff Upper Zone – 119 Mt grading 1.4% TREO, comprising 25.1% NdPr¹

Opportunities to Examine Later

• Shallow high grades T Zone (e.g., 2020 MRE North T: 0.1 Mt grading 9.01% TREO, including 2.2% NdPr)²

Resource Clarification ¹	МТ	TREO (%)	NdPrO: TREO Ratio	Nd ₂ O ₃ (%)
Measured	4.6	1.59	24.6%	0.31
Indicated	6.3	1.45	24.8%	0.28
Inferred	108.1	1.39	25.1%	0.28
Measured, Indicated, & Inferred	119	1.4	25.1%	0.28

TREO = Total Rare Earth Oxides - La2O3, CeO2, Pr6O11, Nd2O3, Sm2O3, Eu2O3, Gd2O3, Tb4O7, Dy2O3, Ho2O3,

Er2O3, Tm2O3, Yb2O3, Lu2O3, Y2O3

NdPrO = *Neodymium oxide and Praseodymium oxide: Nd2O3+Pr6O11*

Source: "The Nature and Origin of the Nechalacho Rare Metal Deposit (REE, Nb,Zr), Northwest Territories, Canada." Volker Möller Department of Earth and Planetary Sciences, McGill University, Montreal, April 2016



Pathway to Development and Production via Partnership



2023 developments

- **Shenghe investment**: Vital and Shenghe to benefit from combined technical and market expertise
- Tardiff Mineral Resource Estimate: 119Mt @ 1.4% TREO including 0.35% NdPr for 416 kt of contained NdPr
 - Completed a 6,664 m drilling in 74 holes at Tardiff
 - Commenced scoping-level studies for development of the Tardiff deposit
- Drilling Results

Scoping Study to launch next chapter

- 2024 Drilling Results
- 2024 MRE Update: incorporating 2023 and 2024 results
- **2024: Augmented Scoping Study**: focus on maximising route to market, saleability and margin (*value and risk management*)
 - Early product interfacing
 - Early processing flow sheet characterization
 - Mine plan grade optimization
- 2024+ Permitting and DFS: competitive advantage given ability to leverage earlier completed Nechalacho (Thor Lake) feasibility study and permitting
- **Financing and Construction:** Vital aims to work collaboratively with debt and equity funders including government agencies



Appendices



A New Paradigm for Rare Earth Demand

Rare earth demand is surging both in volume and diversity of application as the world

- For Example, Neodymium-praseodymium (NdPr) are key rare earth elements (REE) in strong demand
 - VdPr are crucial components in the manufacture of strong permanent magnets used in electric vehicle (EV) motors, wind turbines, and other clean energy technologies
 - ✓ These magnets enable efficient energy conversion and are instrumental in driving the transition towards a greener and more sustainable future
- The market for NdPr oxide has experienced **substantial growth** in recent years, driven by the **increasing demand** for EVs, wind energy, and other high-tech applications
- Neodymium demand is projected to increase by 48% by 2050¹
- Near-medium term forecasts indicator supply will remain tight for elements suite (e.g., dysprosium and neodymium)
 - ✓ Prices are forecast to increase (e.g., Nd to \$266.00 per kg by 2035, Source: Adamas Intelligence, 2023)





¹ Source: Columbia Climate School

² Source: Massachusetts Institute of Technology: Rare Earth Elements Supply and Demand