



TECHNOLOGY
METALS AUSTRALIA LIMITED

TECHNOLOGY METALS FOR A CLEANER FUTURE

New World Metals Conference

September 2021



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Competent Person’s Statement

The information in this report that relates to Exploration Results are based on information compiled by Mr John McDougall. Mr McDougall is the Company’s Exploration Manager and a member of the Australian Institute of Geoscientists. Mr McDougall has sufficient experience relevant to the styles of mineralisation and types of deposits which are covered in this report and to the activity which they are undertaking to qualify as a Competent Person as defined in the 2012 edition of the ‘Australasian Code for Reporting of Exploration Results, Mineral Resources and Ore Reserves’ (“**JORC Code**”). Mr McDougall consents to the inclusion in this report of the matters based on his information in the form and context in which it appears.

The information in this report that relates to Mineral Resources is based on information compiled by Mr Aaron Meakin. Mr Aaron Meakin is a Principal Consultant of CSA Global Pty Ltd and is a Member and Chartered Professional of the Australasian Institute of Mining and Metallurgy. Mr Aaron Meakin has sufficient experience relevant to the style of mineralisation and type of deposit under consideration and to the activity which he is undertaking to qualify as Competent Person as defined in the 2012 Edition of the Australasian Code for the Reporting of Exploration Results, Mineral Resources and Ore Reserves (“**JORC Code**”). Mr Aaron Meakin consent to the disclosure of the information in this announcement in the form and context in which it appears.

The information that relates to Ore Reserves is based on information compiled by Mr Daniel Grosso an employee of CSA Global Pty Ltd. Mr Grosso takes overall responsibility for the Report as Competent Person. Mr Grosso is a Member of The Australasian Institute of Mining and Metallurgy and has sufficient experience, which is relevant to the style of mineralisation and type of deposit under consideration, and to the activity he is undertaking, to qualify as Competent Person in terms of the JORC (2012 Edition). The Competent Person, Daniel Grosso has reviewed the Ore Reserve statement and given permission for the publication of this information in the form and context within which it appears.

The information in this report that relates to the Processing and Metallurgy for the Yarrabubba and Gabanintha projects is based on and fairly represents, information and supporting documentation compiled by Mr Brett Morgan of METS Engineering Group Pty Ltd. Mr Morgan is a Member of The Australasian Institute of Mining and Metallurgy and has sufficient experience, which is relevant to the style of mineralisation and type of deposit under consideration, and to the activity which he is undertaking, to qualify as a Competent Person as defined in the 2012 edition of the ‘Australasian Code for Reporting of Exploration Results, Mineral Resources and Ore Reserves’. The Competent Person, Brett Morgan consents to the inclusion in the report of the matters based on his information in the form and context in which it appears.

WHY INVEST?

**Strategic commodities
located in a Tier 1 jurisdiction**

Gabanintha Vanadium Project

- Large, long-life high purity vanadium project
- Lowest cost quartile
- DFS completed
- Offtake for 75% of average annual output

Yarrabubba Iron-Vanadium Project

- Potential near term development project
- DFS underway as standalone or starter project for Gabanintha development

Part of the future energy solution

- Potential for ore to be used in WA-made Vanadium Redox Flow Batteries (VRFBs)

Nationally significant project



CORPORATE OVERVIEW

CAPITAL STRUCTURE

TMT
ASX Code

\$64.6M
Market Cap *(As at 8 Sept 2021)*

18.7M
Unlisted Options *(Various exercise)*

\$5.59M
Cash *(as at 30 June 2021)*

150.2m
Shares on Issue

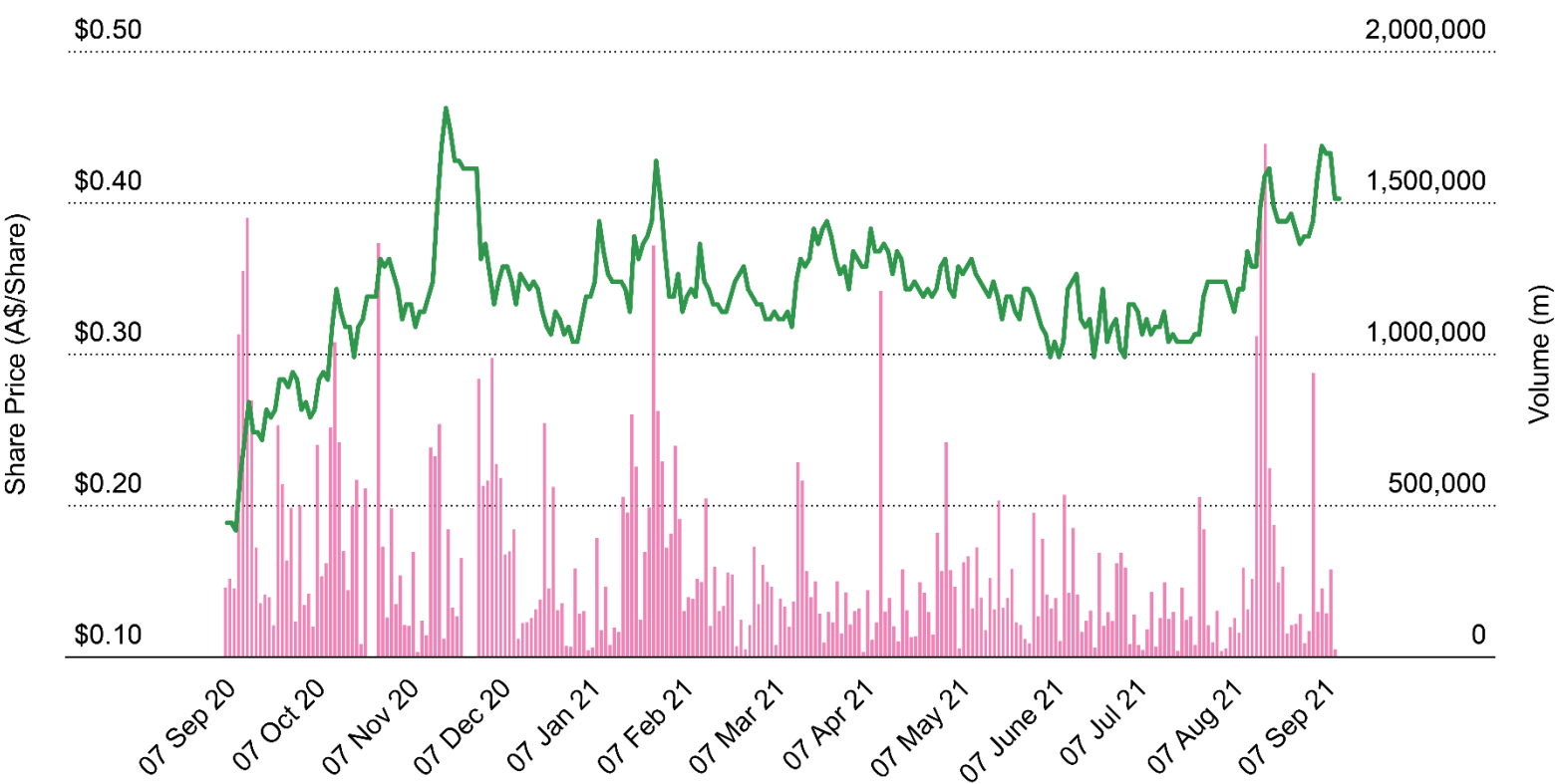
2.65m
Performance Rights²

¹ Includes 12.35m director and employee options – 3.9m vested, 4.1m to vest on GVP FID, 4.35m vest on YIVP hurdles
² 50% vest on Yarrabubba FID, 50% vest on first production from Yarrabubba



Holder Name	Holding (%)
BNP Paribas Nominees	10.9%
Great Southern Flour Mills	9.3%
Retzos Group	5.4%
Colin David Iles	3.4%
Station Nominees	3.3%
Atasa Holdings	2.6%
TOTAL TOP 20	48.4%

Share Price Chart



EXPERIENCED BOARD AND MANAGEMENT

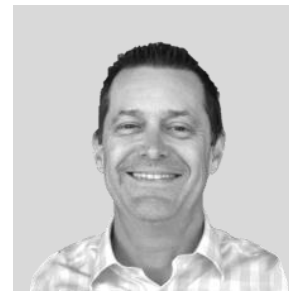


Michael Fry
Non-Exec Chairman

Michael holds a Bachelor of Commerce degree from the University of Western Australia, is a Fellow of the Financial Services Institute of Australasia, and is a past member of the Australian Stock Exchange. Mr Fry has extensive corporate and commercial experience, financial and capital market knowledge and a background in corporate treasury management.

Mr Fry is currently Non-Executive Chairman of ASX listed Brookside Energy Limited with a focus on oil and gas exploration and production onshore mid-continent region of USA.

Mr Fry was a board member of Precious Metals Australia Limited which owned and operated the Windamurra Vanadium operation in Western Australia.



Ian Prentice
Managing Director

Ian holds a Bachelor of Science (Geology) from the University of Western Australia and has over 30 years experience in the global mining industry, spanning exploration, development and open cut and underground mining. Ian is a Member of the Australasian Institute of Mining and Metallurgy.

Ian has served as a Director for a number of ASX-listed resource companies, with activities ranging from exploration and project acquisition in Asia and Africa through to gold production in Australia.

Ian is the founding Executive Director of Technology Metals Australia Limited.



Sonu Cheema
Non-Exec Dir/CoSec

Sonu is a Partner at Cicero Group with over 10 years' experience working with public and private companies in Australia and abroad. Roles and responsibilities held by Mr Cheema include completion and preparation of management and ASX financial reports, investor relations, initial public offers, mergers and acquisitions, management of capital raising activities and auditor liaison.

Currently Mr Cheema is Company Secretary for Silver City Minerals Limited (ASX: SCI), eMetals Limited (ASX: EMT), Avira Resources Limited (ASX: AVW), Yojee Limited (ASX: YOJ) and Comet Resources Limited (ASX: CRL).

Mr Cheema has completed a Bachelor of Commerce majoring in Accounting at Curtin University and is a CPA member.



Michael Bourke
Project Director

Michael holds a Master of Business Administration, Bachelor Economics and Bachelor Engineering (Chemical) degrees and worked in the minerals and metals industry for over 30 years.

His commodity experience covers mineral sands, nickel, cobalt, vanadium, tin, LNG and oil sands. His work includes contracting and project experience, fabrication for LNG projects and operational responsibility for facilities in WA and Singapore.

He was Business Planning Manager for WMC Nickel, Executive General Manager for Iluka Resources, President Emeco Canada and Operations Manager AGC-Ausgroup.



John McDougall
Exploration Director

John holds a Bachelor of Science with Honours (Geology) from the University of Tasmania and has over 20 years experience in mineral exploration, with iron ore, base and precious metals experience.

John is a Member of the Australian Institute of Geoscientists. John has previously served as Exploration Manager for an ASX-listed iron ore resource company and has relevant consulting experience in Western Australia and Tasmania.

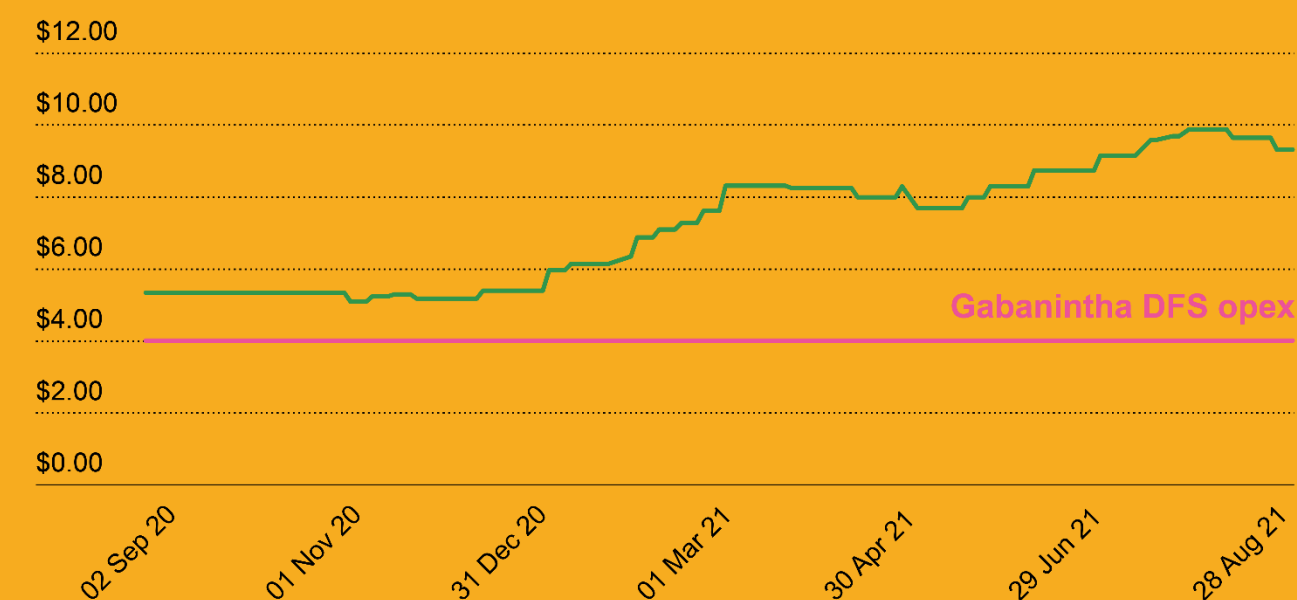
John has been managing the geological data acquisition at Gabanintha and Yarrabubba since February 2017.

VANADIUM

A CRITICAL MINERAL SUPPORTING NET ZERO

- Vanadium has an important role to play strengthening steel, enabling higher quality steel, lowering emissions.
- It is also used in very large-scale batteries (VRFB) that don't degrade over time, ideal for support of renewable energy.
- Tightening market with consumption in steel in China and improving demand in Europe and North America.
- COVID-19 impacts – stimulus spending on infrastructure and focus on renewable energy / storage.

V_2O_5 Vanadium Pentoxide Flake 98% Price USD / lb



“We see significant growth in demand for vanadium - which we foresee due to its growing use in high grade steel and flow batteries.”

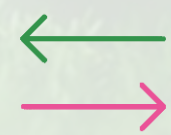
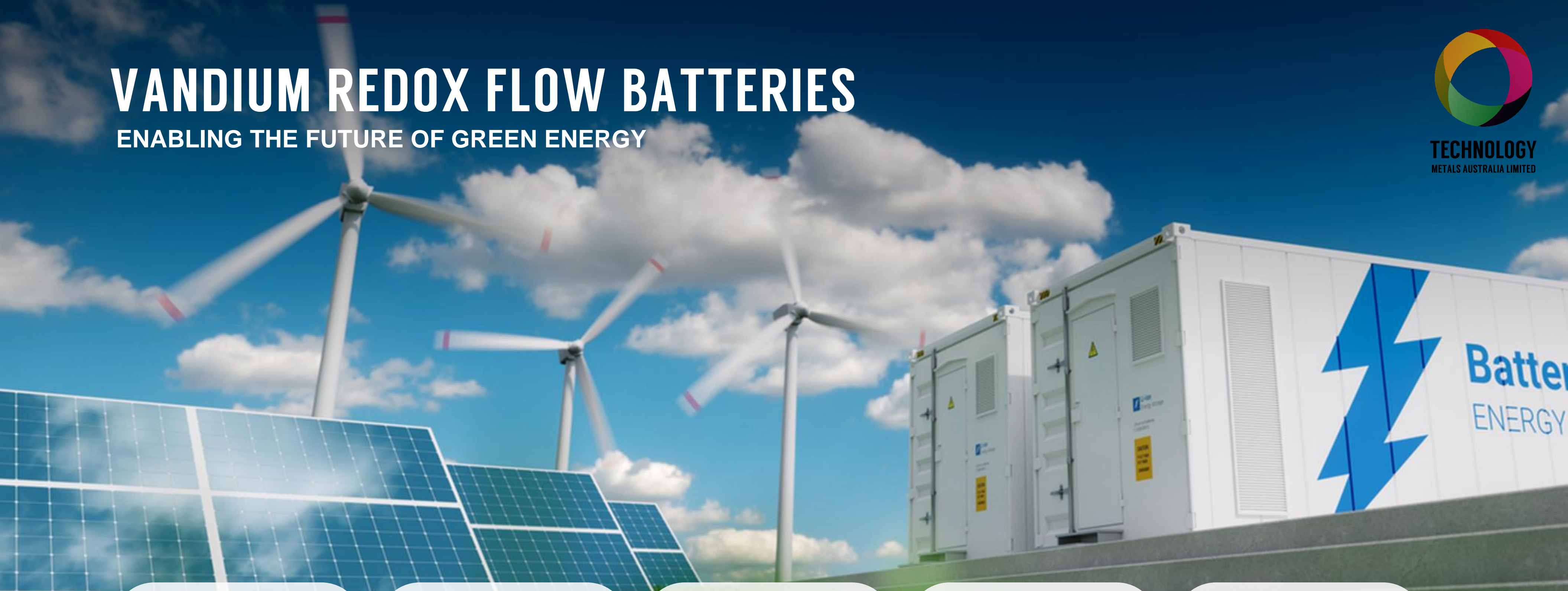
Sir Mick Davis, former Xstrata plc CEO

VANDIUM REDOX FLOW BATTERIES

ENABLING THE FUTURE OF GREEN ENERGY



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No Degradation

Performance remains constant with excellent long term charge retention



Low Energy Cost

Over its 20+ year lifespan, VRFB technology offers the lowest cost per kWh stored (LCOE)



Safety

The vanadium electrolyte is water based and is totally non-flammable



Sustainability

The vanadium is fully reusable and recyclable at end of the battery life

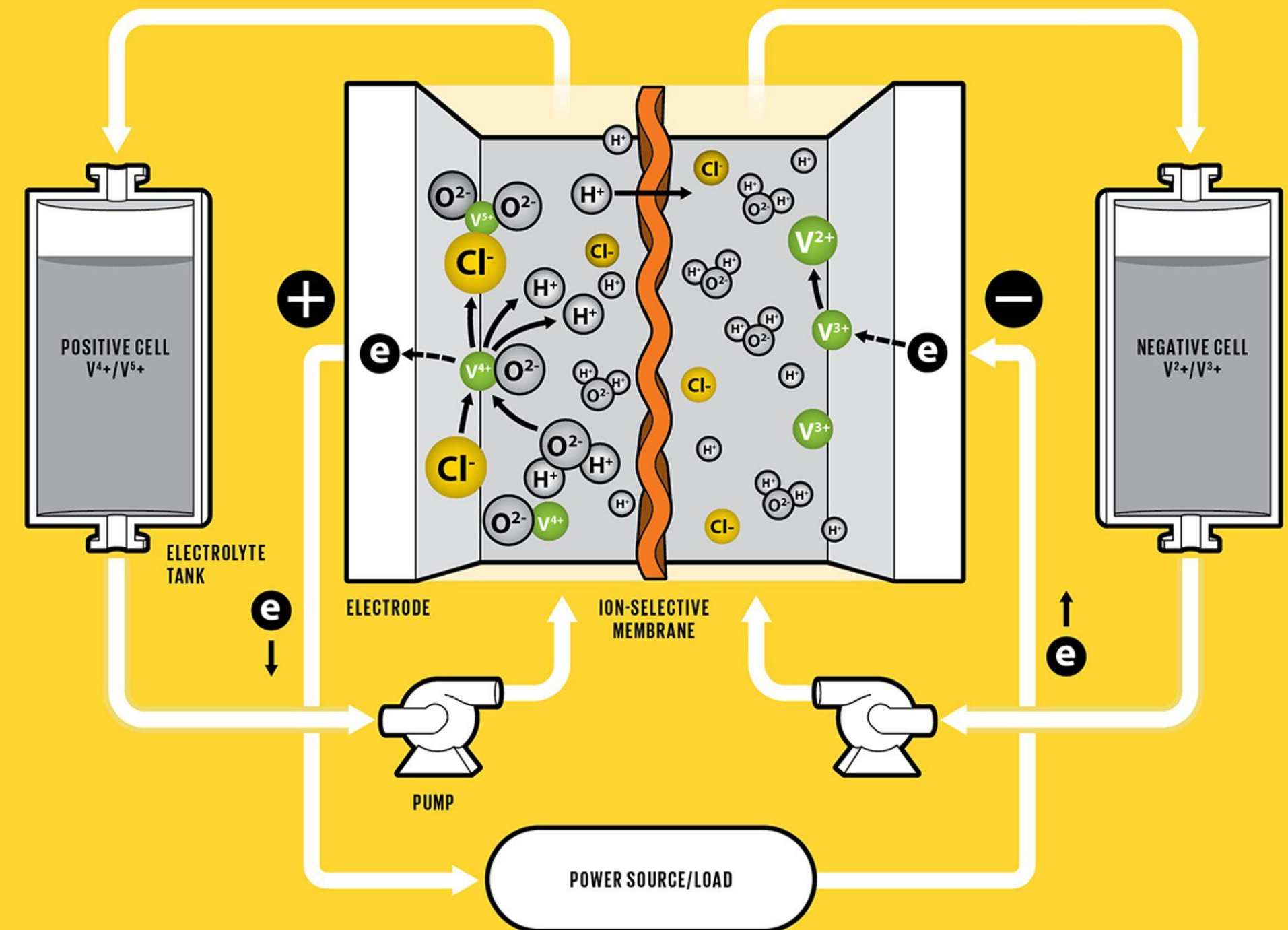


Long Life

VRFB's can easily last more than 20 years with very high cycle life (up to 20,000 cycles)

VANADIUM REDOX FLOW BATTERIES

- The positive and negative sides of a vanadium redox-flow battery are separated by a membrane that selectively allows protons to go through.
- During charging, an applied voltage causes vanadium ions to each lose an electron on the positive side.
- The freed electrons flow through the outside circuit to the negative side, where they are stored.
- During discharging, the stored electrons are released, flowing back through the outside circuit to the positive side.
- VRFB's only contain vanadium electrolytes, with no contamination.
- VRFB's can be fully recycled after 20+ years usage with no degradation.



MURCHISON TECHNOLOGY METALS PROJECT

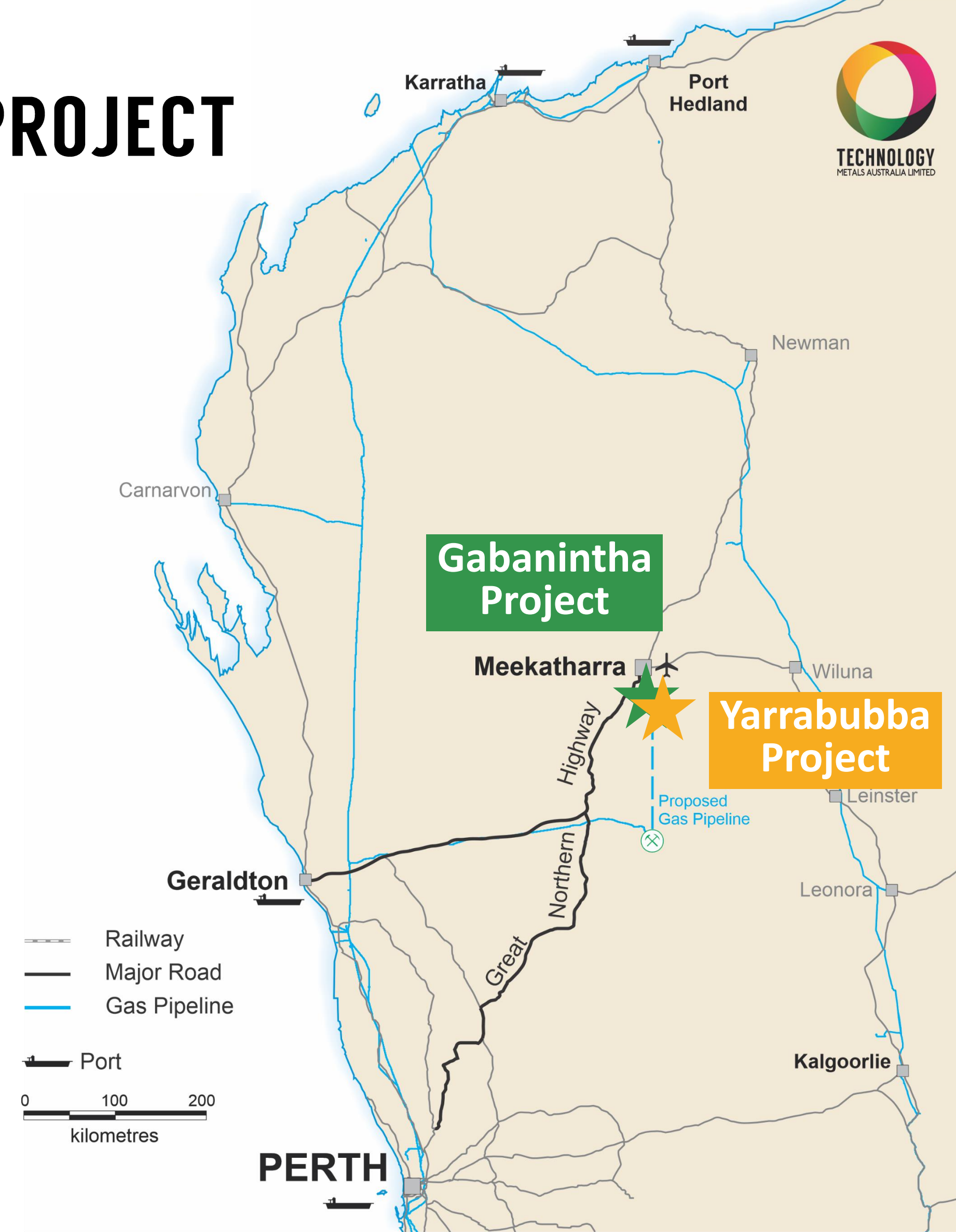


GABANINTHA VANADIUM

- DFS Completed
- 16+ year mine life
- Ore Reserve: 29.6Mt @ 0.88% V_2O_5
- Annual Production: 27.9Mlb/yr
- NPV₈ US\$924M, IRR 34%
- Opex: US\$4.04/lb V_2O_5
- Capex: US\$318M

YARRABUBBA IRON-VANADIUM

- DFS Underway, completion in 2021
- Testwork confirms 63.4% Fe and 1.6% V_2O_5 product
- Utilizing Gabanintha plant front end as staged development



ENVIRONMENT, SOCIAL & GOVERNANCE

BUILDING A GLOBALLY RELEVANT RESOURCES COMPANY



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Environment

Constructive consultation with WA EPA supporting progress on the GVP ERD.

Early engagement with Traditional Owners and Pastoralists to minimise impacts.

Promote energy efficiency and minimise water usage.

Policy of mitigation, minimisation and rehabilitation.



Social / Community

Policy in place to support local procurement and employment wherever practical.

Support community events and activities – developing a social licence to operate.

Generate training, business and work opportunities for Traditional Owners.

Pursue downstream processing options to ensure value add and skills development.



Governance

Instilling a culture of high ethical standards throughout the group and its activities.

Aim to always operate in a safe and respectful manner.

Focus on active risk management throughout the business.

Develop, nurture and maintain our people.

GABANINTHA VANADIUM PROJECT

WORLD-CLASS DEVELOPMENT READY PROJECT

MINING RESERVE

29.6Mt
@ 0.88% V₂O₅

MINE LIFE

+16years

PROCESSING PLANT

27.9Mlb
V₂O₅ pa

HIGH PURITY PRODUCT

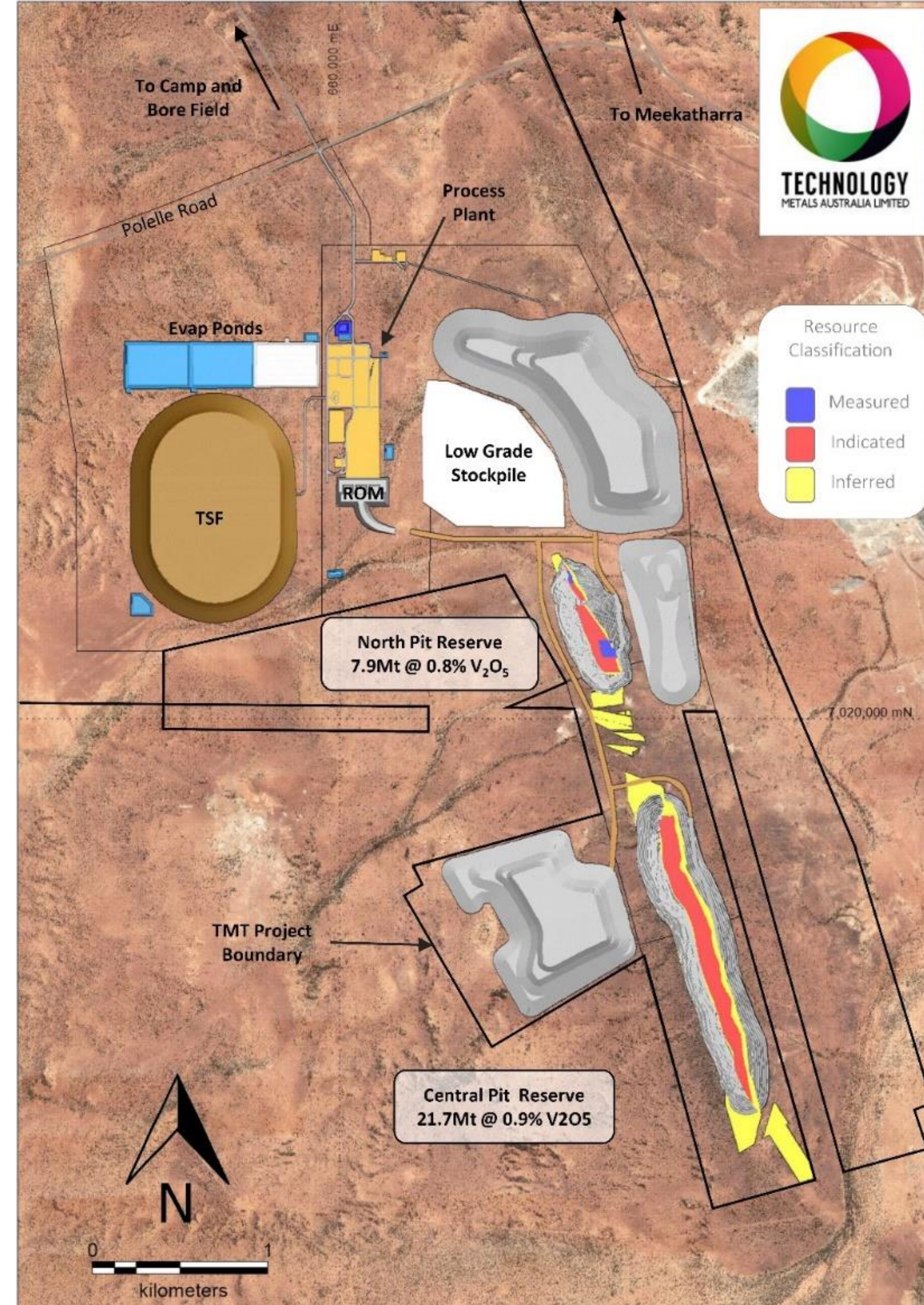
>99% V₂O₅

OPEX

US\$4.04
/ lb V₂O₅

- One of the highest grade undeveloped vanadium deposits in the world.
- Life of mine¹ **revenue of A\$5.7Bn** at US\$8.78/lb V₂O₅.
- Average annual EBITDA of A\$175 million.
- Lowest cost quartile **operating costs at US\$4.04/lb V₂O₅**.
- Premium purity product feeding the green revolution.
- Ore body characterised by very shallow oxidation profile.
- Mining licences granted, environmental approvals on track.

1 - TMT ASX announcement 21 August 2019 for full details of the DFS: Financial Metrics at long term historical average price of US\$8.78/lb V₂O₅



GABANINTHA VANADIUM PROJECT

KEY PROJECT PARTNERS



WA Government

Lead Agency Support
Future Battery Industry
Supporting downstream processing.

NAIF

Engagement with Federal Government agency

Part of strategic funding approach.

WA EPA

Environmental approvals

Constructive consultation underway

APA

Gas transportation agreement

Lower gas transportation costs; access to emerging Perth Basin gas fields.

FLSmidth

Equipment vendor engagement

Kiln supply agreement executed.

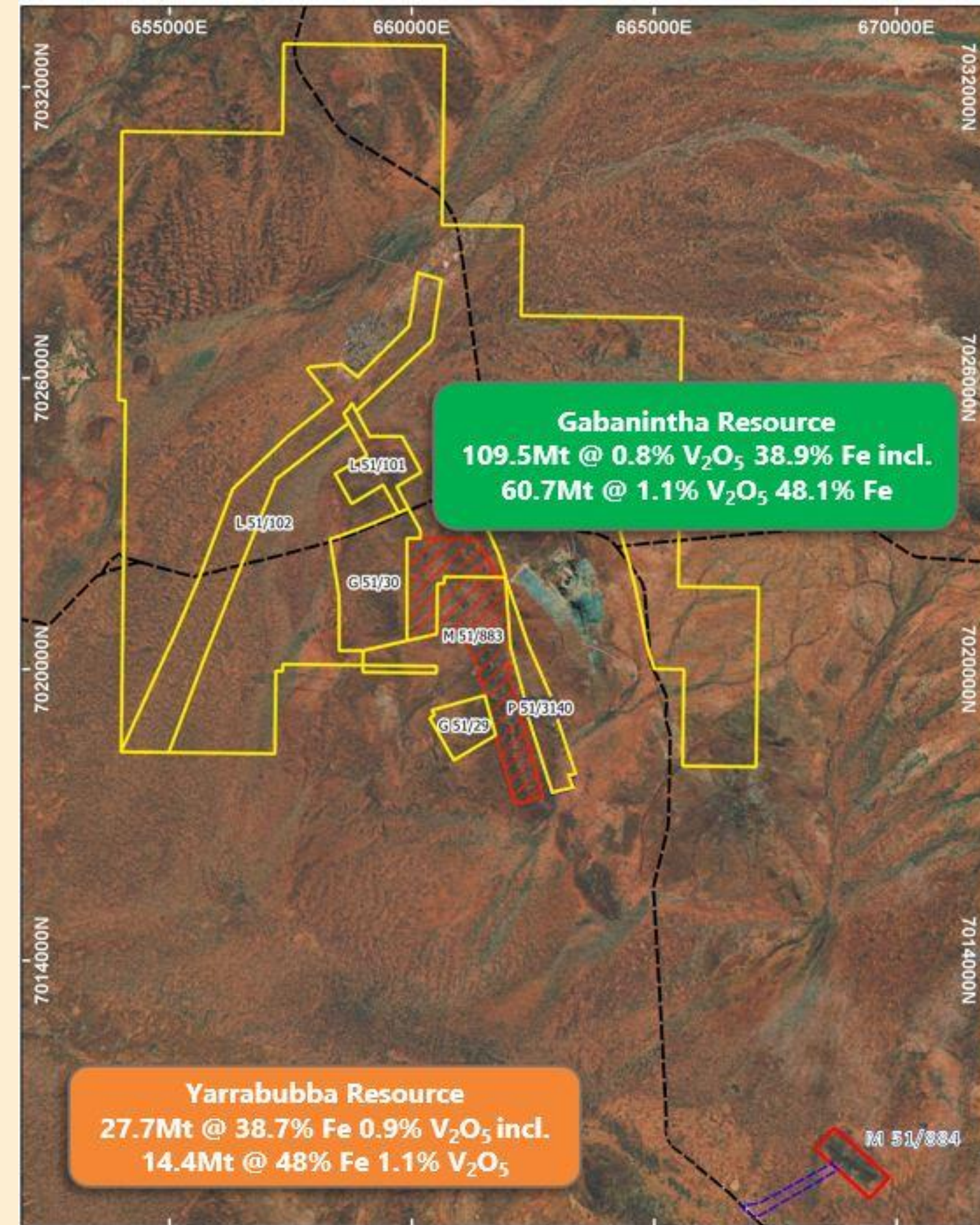
Ongoing market engagement for product offtake / funding options

Sinosteel, CNMNC, Shaanxi Fengyuan, Big Power, LE System.

YARRABUBBA PROJECT

OVERVIEW

- Proposed¹ 1.5Mtpa of high grade, high purity iron ore (+ vanadium) magnetite product.
- 62.8% Fe and 1.66% V₂O₅** at 75-micron grind size with **mass recovery of 49.6%**.
- Low levels of SiO₂, Al₂O₃, S and P.
- Steel industry **paying premium** for high iron, low impurity feedstock.
- Titanium by-product at 46% to 47% TiO₂ from tails.
- High titanium recovery using standard gravity; product upgraded with magnetic separation.
- TZMI estimate product highly marketable and would achieve US\$140 – US\$180/tonne FOB.
- DFS underway, completion by end 2021.

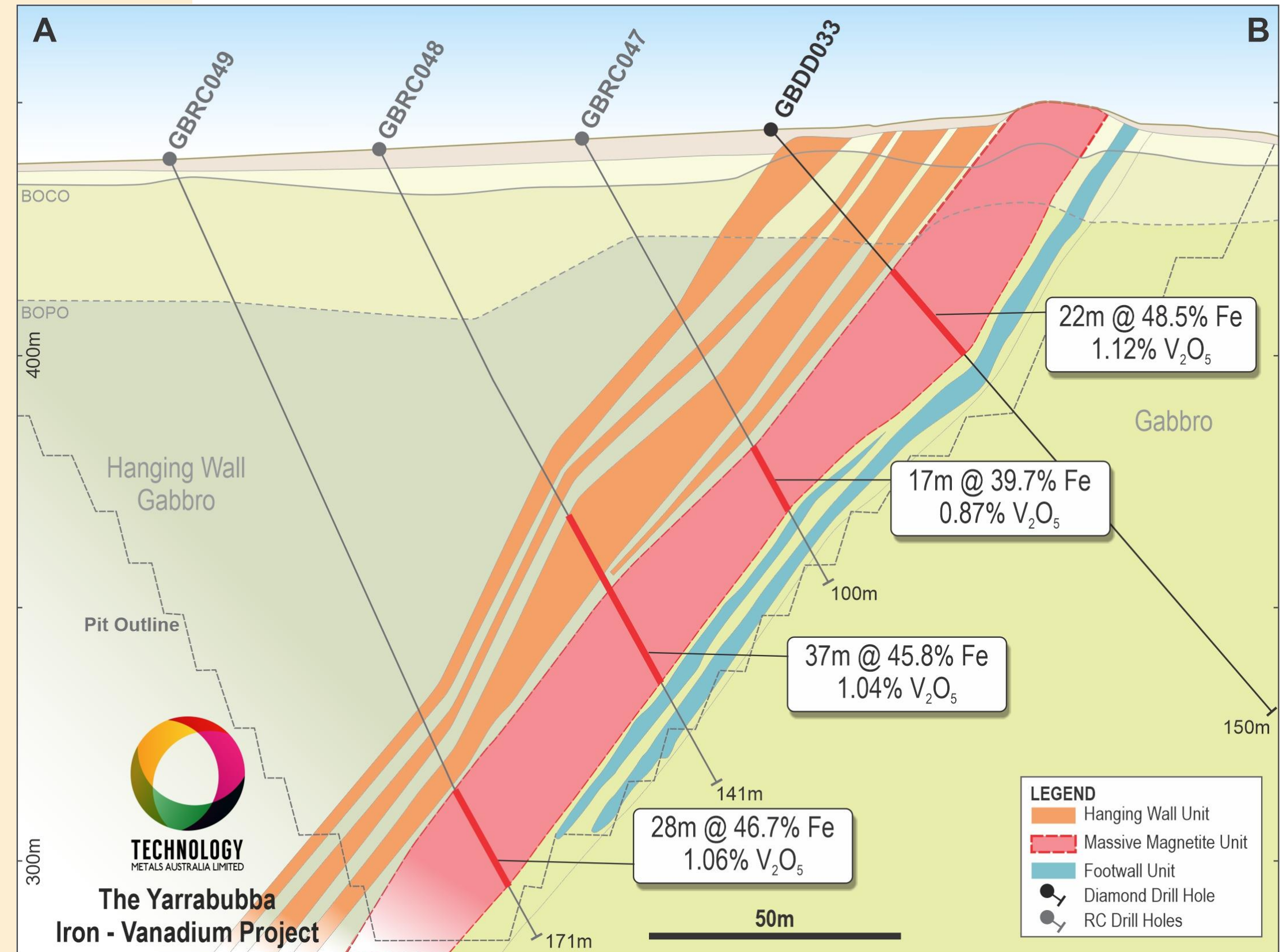


YARRABUBBA PROJECT

NEAR TERM, LOW RISK DEVELOPMENT PROJECT



- Simple flowsheet to deliver high purity iron ore.
- Key differentiators for Yarrabubba:
 - High in-situ iron grades
 - Very high mass recoveries
 - Low risk processing
 - Simple open pit mining
 - High quality product(s)
- Gabanintha location and DFS provides significant advantage in progressing development of Yarrabubba.
- Processing circuit to be built at Gabanintha
 - Benefitting longer term Technology Metals Project development.
- Staged development strategy complementary to Gabanintha.



STRATEGIC PLAN

To produce strategic technology metals that reduce emissions and produce emissions free power



VRFB AND ELECTROLYTE STRATEGY

PART OF THE ENERGY SOLUTION



- MoU signed with Japanese electrolyte producer, LE System, to investigate the potential local production of vanadium electrolytes using Technology Metals' products.
- Concurrently, the Company has initiated discussions with VRFB manufacturers with regards to the establishment of an Australian VRFB production facility.
- The evolution of the Murchison Technology Metals Project from a V_2O_5 flake producer into downstream applications forms part of our sustainability strategy.

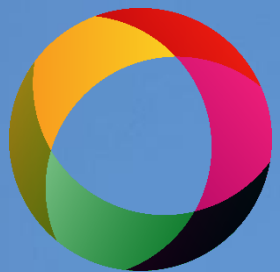


LE SYSTEM CO., Ltd.

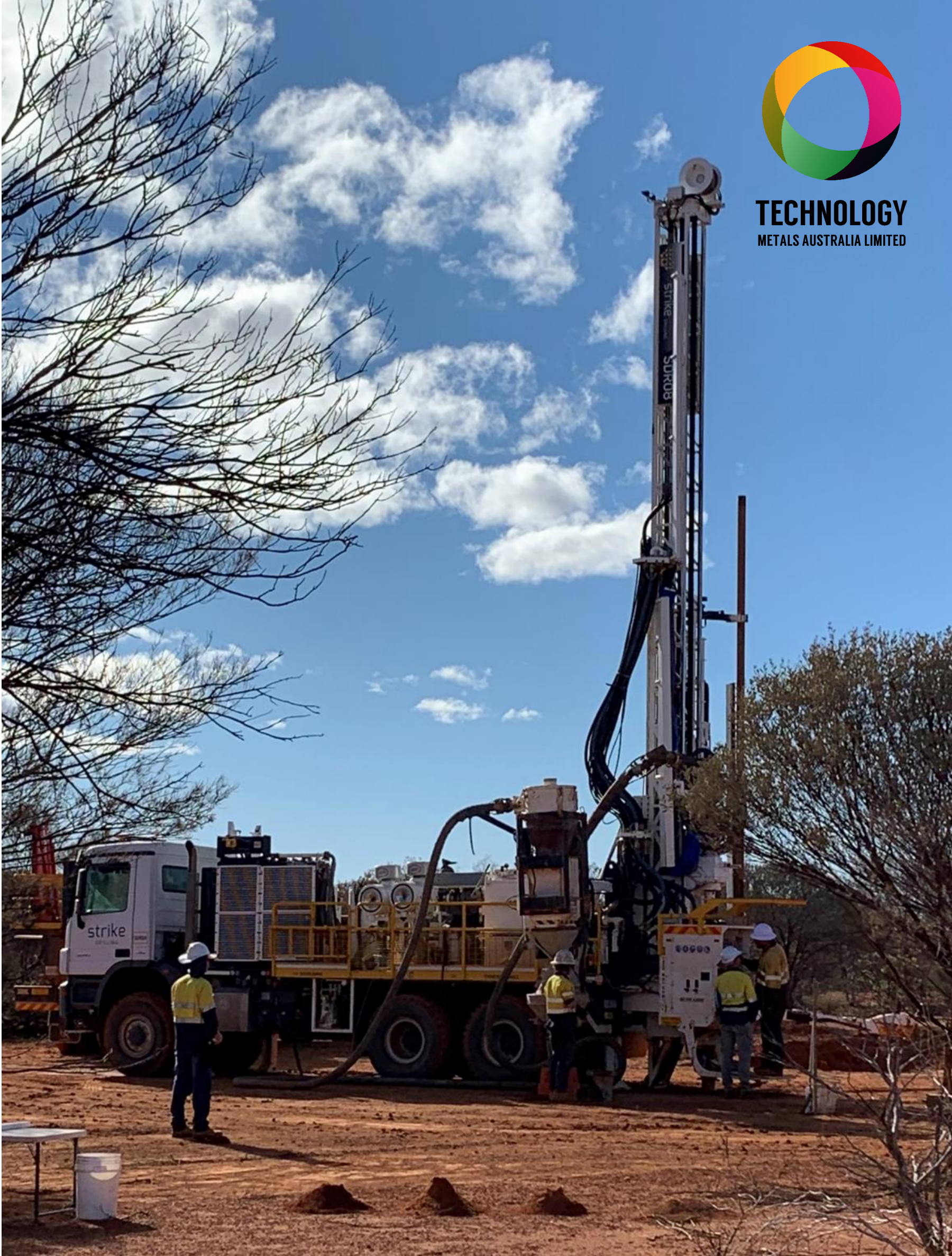
LE SYSTEM Co., Ltd.

TIMETABLE AND NEWS

Mining leases - granted	✓
Bulk sample generation	✓
Infill resource drilling	✓
CMD flowsheet	✓
Port & haulage logistics	Progressing
ERD – Update submitted for review	Submitted
Mineral Resource update	Q3/Q4
Ore Reserve estimation	Q3/Q4
Pilot testwork	Q3/Q4
Yarrabubba environmental submissions	Progressing



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A COMPELLING INVESTMENT



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Leveraged

to delivery of critical minerals to support emissions reduction goals.

Stable

operating environment with excellent infrastructure and access.

Delivering

on project development underpinned by high quality technical work.

Team in place

focused on staged development strategy to maximise shareholder value.

Globally Significant

projects with robust economics and scope to stage funding.

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