



**TECHNOLOGY METALS
AUSTRALIA LIMITED**

(ASX: TMT)

**INVESTOR PRESENTATION
DECEMBER 2016**

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All currency amounts are in AUD\$ unless stated otherwise.

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Competent Person’s Statement

The information in this presentation that relates to Mineral Resources and Exploration Results are based on information compiled by Mr Ian Prentice. Mr Prentice is a Director of the Company and a member of the Australian Institute of Mining and Metallurgy. Mr Prentice has sufficient experience relevant to the styles of mineralisation and types of deposits which are covered in this presentation 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 Prentice consents to the inclusion in this presentation of the matters based on his information in the form and context in which it appears.

Exploration Targets

The terms “Target” or “Exploration Target” where used in this presentation should not be misunderstood or misconstrued as an estimate of a Mineral Resource as defined in the JORC Code and therefore the terms have not been used in this context. Exploration Targets are conceptual in nature, there has been insufficient exploration to define a Mineral Resource and it is uncertain further exploration will result in the determination of a Mineral Resource.

Strategy

Technology Metals Australia (TMT) was formed to source, explore and ultimately develop commodities that are applied in the technology sector.

Target commodities include vanadium, lithium, graphite, cobalt, etc. with a focus on storage solutions for renewable energy.

Renewable energy capacity grew by 8.6% to 1,849 Gwh in 2015, with the trend expected to be maintained.

Vanadium Redox Batteries (VRB's) provide an efficient storage and re-supply solution for renewable energy.

TMT has secured a 100% interest in the Gabanintha vanadium project located in the Murchison district of Western Australia.

Corporate Overview

Capital Structure

Seed Shares	2,600,000	\$0.10	\$260,000
Vendor Shares	2,500,000		
IPO Shares	20,000,000	\$0.20	\$4,000,000
TOTAL¹	25,100,000		

Options ²	15,000,000		
Class A Performance ³	10,000,000		
Class B Performance ⁴	10,000,000		
TOTAL Fully Diluted	60,100,000		

1 – 21.3 million tradeable shares on listing.

2 – Options \$0.25 exercise before 31 December 2019.

3 – Convert to 10,000,000 Ordinary Shares plus 10,000,000 Class B Performance Shares on definition of inferred resource of 30Mt > 0.8% V₂O₅

4 – Convert to 10,000,000 Ordinary Shares on definition of indicated resource of 20Mt > 0.8% V₂O₅

Board of Directors

Michael Fry	Chairman
Ian Prentice	Executive Director
Sonu Cheema	Director / Company Secretary

"A company that provides multi-megawatt energy storage solutions using vanadium redox fuel cells. That's one of the coolest things I've ever said out loud!"

President Obama

Board of Directors

Ian Prentice **Executive Director**

Mr Prentice is a Member of the Australasian Institute of Mining and Metallurgy and holds a Bachelor of Science (Geology) from the University of Western Australia.

Mr Prentice 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.

Michael Fry **Non-Executive Chairman**

Michael Fry 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.

Sonu Cheema **Non-Executive Director**

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

Mr Cheema holds the position of Accountant and Company Secretary for Cicero Corporate Services and has over 10 years' experience working with public and private companies in Australia and abroad.

Right Place; Right Time

Technology Metals Australia (TMT) A\$5.0 million market capitalisation on admission with EV of A\$1.4 million.

Wholly Owned Gabanintha Vanadium Project; 4.5km strike length of mineralised gabbro along strike from Australian Vanadium Limited's (ASX:AVL market cap ~A\$19m) Gabanintha Vanadium Project.

Pure Play Vanadium Producer Largo Resources, Inc. (TSX:LGO market cap CN\$193m) operating Menchen Mine, Bahia State, Brazil.





VANADIUM



Vanadium Market

- **Vanadium predominantly used in steel production;** however significant market growth is expected to be driven by the emerging energy storage (battery) sector.
- Global storage capacity expected to grow to 185 Gwh over the next few years (source; Lux Research).
- If 30% of that capacity is taken up by Vanadium Redox Batteries this would result in 300,000 tonnes of new vanadium demand.
- Demand in steel production linked to global economic environment, but is continuing to grow.
- The addition of vanadium increases steel strength up to 100% and reduces weight up to 30%.

Vanadium Demand

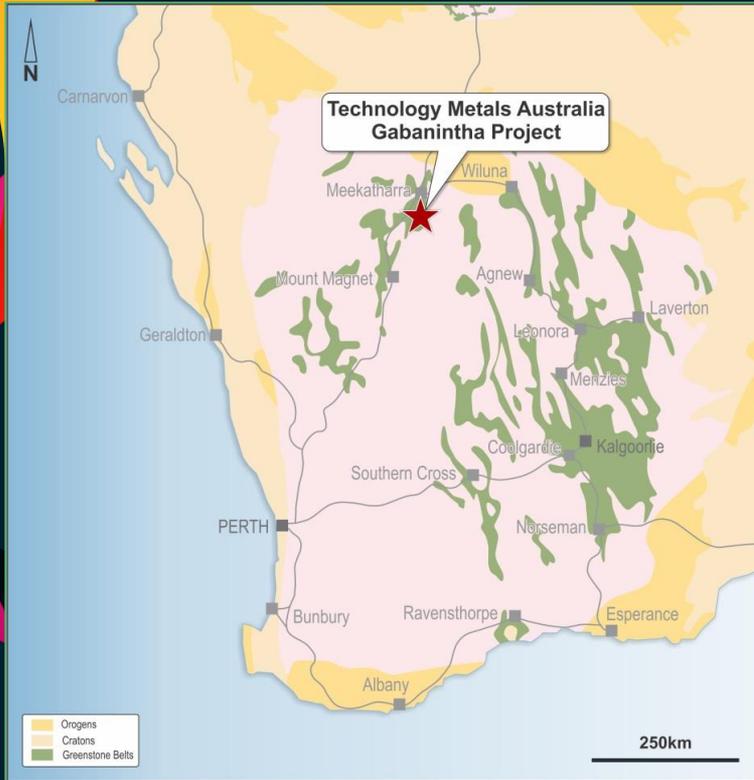
- › **Vanadium demand expected to increase** to 131,000tpa by 2025 (source: Roskill), excluding significant growth in the battery sector.
- › Increased intensity of use of vanadium in steel in developing countries to drive most near term growth.
- › Widespread adoption of Vanadium Redox Batteries could increase demand for vanadium by **10,000 – 20,000tpa** by 2025, compared with consumption of 1,000 tonnes in 2014.
- › Demand increase from Vanadium Redox Batteries expected to emerge from about 2020 with further technological developments.

Vanadium Redox Batteries

- › **Vanadium Redox Batteries (VRB's)** provide an efficient storage and re-supply solution for renewable energy, with high capacity suitable for large-scale applications.
- › VRB's – flow batteries – are able to time-shift large amounts of previously generated energy for later use; can provide a grid scale solution.
- › Batteries are easily scalable, have very long life span, excellent charge retention and can discharge fully with no damage.
- › VRB's use vanadium ions in different oxidation states to store energy, using V_2O_5 processed into an electrolyte. Battery capacity can be expanded by adding more storage tanks.



**VANADIUM
GABANINTHA
PROJECT**

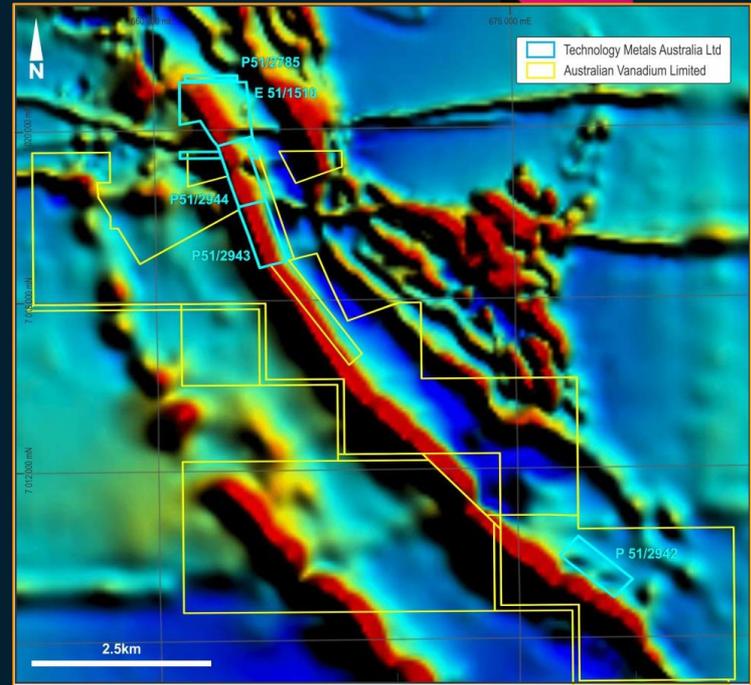


Gabanintha Project

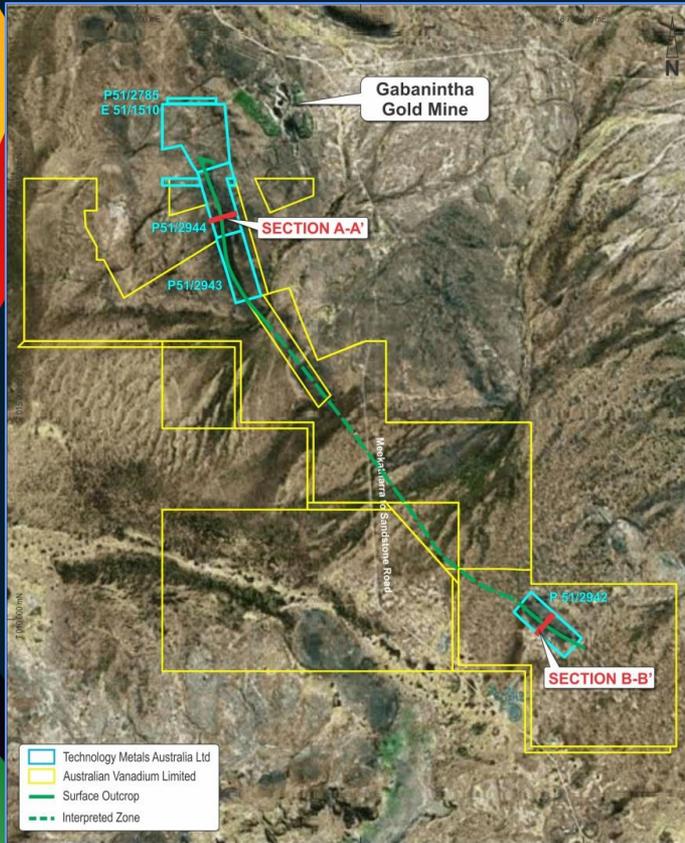
- › Located 40km SE of Meekatharra in Western Australia.
- › Five granted tenements.
- › On strike from Australian Vanadium Limited's (ASX:AVL) Gabanintha Vanadium project.
- › Historical drilling on TMT's tenements has intersected broad zones of high grade (+1.0%) vanadium mineralisation.

Local Geology

- › Vanadium mineralisation is hosted by north west – south east trending layered gabbro intrusive
- › Iron within the gabbro provides a magnetic signature enabling the “mapping” of the unit.
- › Vanadium enrichment is accompanied by titanium and magnetite.
- › The project contains 4.5km strike length of the mineralised gabbro.



Mineralised Setting



- The mineralised gabbro generally outcrops as low ironstone ridges within the project area.
- AVL has defined a JORC Code (2012) compliant resource¹ of 91.4Mt at 0.82% V_2O_5 in the northern part of its holdings (24.7Mt M&I).
- Single broad high grade basal mineralised zone overlain by multiple lower grade zones.
- Historical drilling² completed on TMT tenements confirms presence of high grade mineralisation.

1 – ASX announcement by Yellow Rock Resources Limited (ASX: YRR) dated 10 November 2015 (“Report”). Brian Davis and John Tyrrell, Substantial high-grade vanadium resource highlights Gabanintha’s world-class potential, 10 November 2015.

2 – Refer TMT ASX announcement dated 21 December 2016 for full details of historical drilling.

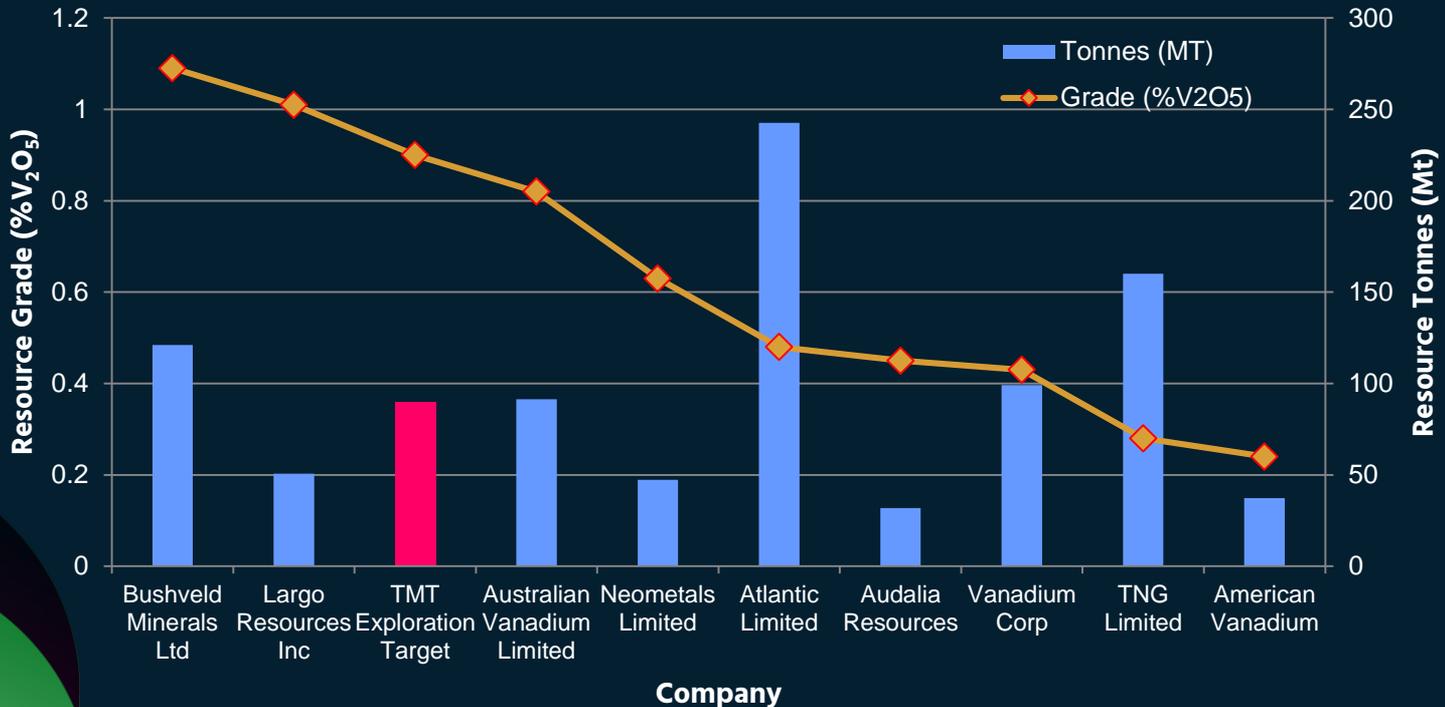
Historical Exploration

- Eight RC holes were drilled within TMT's tenements in the late 1990's – five in the north and three in the south.
- All holes intersected broad basal zones of high grade (+1.0% V_2O_5) mineralised gabbro.
- Confirmed presence of significant widths of lower grade vanadium mineralisation within the gabbro.



Global Vanadium Projects

GRADE AND SIZE ARE KEY



1 – TMT Exploration Target range of 80 – 100 Million tonnes at 0.8 to 1.0 % V₂O₅. This target is conceptual in nature; there has been insufficient exploration to estimate a Mineral Resource and it is uncertain if further exploration will result in the estimation of a Mineral Resource. Proposed airborne magnetic survey and subsequent reverse circulation drilling in the first quarter of 2017 are designed to test the validity of this target.

Summary

Experienced Board / Management team focused on delivering shareholder returns.

Minimal resource / technical risk with past drilling confirming presence of shallow, broad high grade mineralised zones on strike from defined resource

Well placed to feed the expected demand generated from the emerging energy storage (battery) sector.

Stable, well resourced Western World mining environment to support project development.

Team in place to identify and evaluate opportunities in a wide range of technology metals including vanadium, lithium, graphite and cobalt.

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