



## TECHNOLOGY METALS AUSTRALIA LIMITED

### ASX Announcement

29 May 2017

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#### Directors

Michael Fry:

**Chairman**

Ian Prentice:

**Executive Director**

Sonu Cheema:

**Director and Company Secretary**

#### Issued Capital

21,300,001 ("TMT") Fully Paid  
Ordinary Shares

3,800,000 Fully Paid Ordinary Shares  
classified as restricted securities

15,000,000 Unquoted Options  
exercisable at \$0.25 on or before 31  
December 2019 classified as  
restricted securities

10,000,000 Class A Performance  
Shares classified as restricted  
securities

**ASX Code: TMT**

**FRA Code: TN6**

## PROJECT UPDATE AND DUAL LISTING ON FRANKFURT STOCK EXCHANGE

Technology Metals Australia Limited (ASX: **TMT**) ("**Technology Metals**" or the "**Company**") is pleased to announce that it has been notified that the Company's shares are listed and tradeable on the Frankfurt Stock Exchange. The Company's shares trade under the code "**TN6**" on the exchange.

The Frankfurt Stock Exchange dual listing supports TMT's strategy to expand and broaden its European investor base, particularly in Germany, where there is a high level of awareness of the use and increased penetration of vanadium redox batteries in the expanding renewable energy storage sector and the subsequent increase in global vanadium consumption. Technology Metals is positioned to benefit from this growth in the vanadium sector through the exploration and subsequent development of its Gabanintha Vanadium Project ("**Project**").

As Technology Metals shares are quoted on the Australian Securities Exchange, a Frankfurt Stock Exchange approved exchange, the dual listing was possible without conducting any primary listing procedures and at no additional cost to the Company.

The Frankfurt Stock Exchange is the world's third largest exchange-trading market as measured by trading volume, behind the New York Stock Exchange and NASDAQ. More than 50 percent of the total trades on the Frankfurt Stock Exchange are conducted through investors in countries outside of Germany.

#### Project Update

As previously disclosed, independent geological consultants CSA Global have been engaged by the Company to complete initial resource estimation work for the Project. This work is expected to deliver a maiden inferred resource for the Project, which will guide future drilling campaigns including resource infill and extension designed to improve and increase the resource estimate. The Company now expects to be in receipt of the maiden inferred resource in mid June 2017.

#### About Vanadium

Vanadium is a hard, silvery grey, ductile and malleable speciality metal with a resistance to corrosion, good structural strength and stability against alkalis, acids and salt water. The elemental metal is rarely found in nature. The main use of vanadium is in the steel industry where it is primarily used in metal alloys such as rebar and structural steel, high speed tools, titanium alloys and aircraft. The addition of a small amount of vanadium can increase steel strength by up to 100% and reduces weight by up to 30%. Vanadium high-carbon steel alloys contain in the order of 0.15 to 0.25% vanadium while high-speed tool steels, used in surgical instruments and speciality tools, contain in the range of 1 to 5% vanadium content. Global economic growth and increased intensity of

use of vanadium in steel in developing countries will drive near term growth in vanadium demand.

An emerging and likely very significant use for vanadium is the emerging energy storage (battery) sector with the expanding use and increasing penetration of the vanadium redox batteries (VRB's). VRB's are a rechargeable flow battery that uses vanadium in different oxidation states to store energy, using the unique ability of vanadium to exist in solution in four different oxidation states. VRB's provide an efficient storage and re-supply solution for renewable energy – being able to time-shift large amounts of previously generated energy for later use – ideally suited to micro-grid to large scale energy storage solutions (grid stabilisation). Some of the unique advantages of VRB's are:

- a lifespan of 20 years with very high cycle life (up to 20,000 cycles) and no capacity loss,
- rapid recharge and discharge,
- easily scalable into large MW applications,
- excellent long term charge retention,
- improved safety (non-flammable) compared to Li-ion batteries, and
- can discharge to 100% with no damage.

*For, and on behalf of, the Board of the Company,*

Ian Prentice  
**Executive Director**  
**Technology Metals Australia Limited**

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#### **About Technology Metals Australia Limited**

**Technology Metals Australia Limited (ASX: TMT)** was incorporated on 20 May 2016 for the primary purpose of identifying exploration projects in Australia and overseas with the aim of discovering commercially significant mineral deposits. The Company's primary exploration focus is on the Gabanintha Vanadium Project located 40km south east of Meekatharra in the mid-west region of Western Australia with the aim to develop this project to potentially supply high-quality V<sub>2</sub>O<sub>5</sub> flake product to both the steel market and the emerging vanadium redox battery (VRB) market.

The Project, which consists of five granted tenements and one exploration licence application, is on strike from, and covers the same geological sequence as, Australian Vanadium Limited's (ASX: AVL) Gabanintha Vanadium project. Vanadium mineralisation is hosted by a north west – south east trending layered mafic igneous unit with a distinct magnetic signature. Mineralisation at Gabanintha is similar to the Windimurra Vanadium Deposit, located 270km to the south, and the Barambie Vanadium-Titanium Deposit, located 155km to the south east. The key difference between Gabanintha and these deposits is the consistent presence of the high grade massive vanadium – titanium – magnetite basal unit, which is expected to result in an overall higher grade for the Gabanintha Vanadium Project.

The Company will also review the potential for economic mineralisation of various other commodities at Gabanintha and intends to seek, evaluate, review and if appropriate acquire interests in additional resource based projects with a focus on technology and precious metals.