

QUARTERLY ACTIVITIES REPORT

FOR THE THREE MONTHS ENDED 31 DECEMBER 2022

HIGHLIGHTS

Memorandum of Understanding executed with Tata Steel for potential joint development of ferrovanadium production facilities as well as potential investment into the MTMP or TMT

Upgrade to global Mineral Resource Estimate for MTMP delivers a 26% increase to the Measured and Indicated Resource categories

Letter of Interest for financing support of around A\$150 million for the MTMP received from EKF, Denmark's Export Credit Agency

Vanadium electrolyte projects progressing with Japanese technology partner LE System Co., Limited and the Future Battery Industries Cooperative Research Centre

Implementation phase progressing with data received from the commercial competitive tendering process being verified and evaluated

31st January 2023

Advanced vanadium developer, Technology Metals Australia Limited (ASX: **TMT**) (**Technology Metals**, or the **Company**), is pleased to provide an update on activities for the quarter ended 31 December 2022.

The Company announced a major milestone during the quarter with the execution of a Memorandum of Understanding (**MoU**) with leading Indian steelmaker, Tata Steel, regarding potential offtake of vanadium products. The parties are also investigating downstream technical collaboration with scope for joint development of ferrovanadium production facilities as well as potential investment by Tata Steel into Technology Metals and/or the Murchison Technology Metals Project (**MTMP**).

The MTMP Global Mineral Resource Estimate (**MRE**) was upgraded to 153.7Mt at 0.8% V₂O₅, including a Measured and Indicated component of 63.2Mt at 0.9% V₂O₅, a 26% increase on the previous MRE. This upgrade is expected to result in an increase in Proven and Probable Ore Reserves and project mine life.

TMT received a Letter of Interest (**LoI**) from EKF Denmark's Export Credit Agency (**EKF**) with regard to potential financing support of around A\$150 million for the MTMP, with the support subject to, sufficient Danish economic interest in the MTMP, approvals, satisfactory documentation and customary due diligence. The Company is working with Danish company FLSmidth regarding the supply of various key equipment items, including the roasting kiln section, for the MTMP. EKF has had extensive and positive experience with FLSmidth.

TMT's Managing Director, Ian Prentice, commented:

"With the signing of the Tata Steel MoU and receipt of the EKF LoI we continue to deliver on key milestones that are vital in progressing the MTMP – to be the world's next large-scale supplier of high purity vanadium – whilst maintaining a clear focus on the Company's vision and values consistent with our holistic ESG action plan.

"The commercial competitive tendering process of the Implementation Phase is now in the verification and evaluation stage and we look forward to progressing engagement with the preferred tenderers. Whilst the industry as a whole is facing resourcing and inflationary pressures, our strategy places us in the best possible position to deliver the timely development of the MTMP, supported by an extremely high-quality team of professionals.

"Completion of the Bankable Financial Model as a key deliverable of the Implementation Phase is underpinned by the engagement with the preferred tenderers and delivery of the updated Ore Reserve, with tangible progress on environmental approvals a significant factor in the delivery of the MTMP Implementation Phase."

Memorandum of Understanding with Tata Steel

In October 2022, the Company executed a non-binding MoU with Indian steelmaking company Tata Steel Limited (**Tata Steel**), part of the global Tata Group¹. Tata Steel, with a consolidated turnover of US\$32.8 billion for FY22 is the 10th largest steel producer in the world with an annual crude steel production capacity of 34Mtpa. Ferrovanadium and vanadium nitride are used in the steel alloying process in Tata Steel's facilities to increase strength and wear resistance.

Under the MoU with Tata Steel, the parties will undertake discussions on the technical requirements for downstream vanadium processing in India and Australia, potential commercial collaboration on the MTMP and downstream production facilities, supply of vanadium pentoxide and other downstream vanadium products and potential investment by Tata Steel into Technology Metals and/or the MTMP.

The execution of this MoU and the discussions with Tata Steel are consistent with the Company's strategic objective of developing downstream opportunities to add value to the MTMP and Western Australia.

Upgraded Mineral Resource Estimate

In November 2022, the Company announced an upgrade to the Global MRE for the MTMP². The updated Global MRE of 153.7Mt at 0.8% V₂O₅, a 5% increase on the previous Global MRE, includes a maiden Measured MRE for Yarrabubba of 5.9Mt at 1.0% V₂O₅ and 11.2% TiO₂ within a Global Measured and Indicated component of 63.2Mt at 0.9% V₂O₅, a 26% increase on the previous MRE. The Global Measured MRE of 12.1Mt at 1.0% V₂O₅ is expected to support significant growth in the Proven Ore Reserve component of the MTMP.

Yarrabubba is expected to be the initial ore feed source for the MTMP, delivering higher vanadium in concentrate grades (1.61% V₂O₅), excellent recoveries and the highly sought-after ilmenite by-product, providing significant benefits for the economics of the Project and materially lowering the development risk. Conversion of a portion of the shallow transitional material at Yarrabubba to the higher confidence Indicated category is expected to deliver positive impacts for the Ore Reserve estimate and Project economics.

The upgraded Global MTMP MRE combined with additional data on the geotechnical parameters of the proposed open pit walls at both Gabanintha and Yarrabubba will be used by Orelogy to update the Project's open pit mine designs, completion of mine schedule optimisation work and ultimately generate an updated Global Proven and Probable Ore Reserve estimate for the MTMP. The significant growth in the Measured MRE component for the Project is expected to contribute to a larger Proven component of the Ore Reserve estimate.

EKF Financing Letter of Interest

Subsequent to the end of the quarter, TMT received a Letter of Interest (**LoI**) from EKF Denmark's Export Credit Agency (**EKF**) with regard to potential financing support of around A\$150 million for the MTMP³. The EKF support is subject to sufficient Danish economic interest in the MTMP, approvals, satisfactory documentation and customary due diligence. TMT and EKF have had positive and strong engagement over a number of years, with this LoI marking a significant milestone in the progression of this relationship.

The Company is progressing discussions with Danish company FLSmidth regarding the supply of various key equipment items, including the roasting kiln section, required for the development of the MTMP. EKF has had extensive and positive experience with FLSmidth on projects worldwide for more than 90 years.

As the Danish ECA, financing support from EKF is backed by the Danish state and as such can be considered to carry a AAA rating.

¹ ASX Announcement 10 October 2022 – MoU executed with Tata Steel

² ASX Announcement 7 November 2022 – MTMP Global Mineral Resource Upgrade

³ ASX announcement 18 January 2023 – EKF Issues Financing Letter of Interest

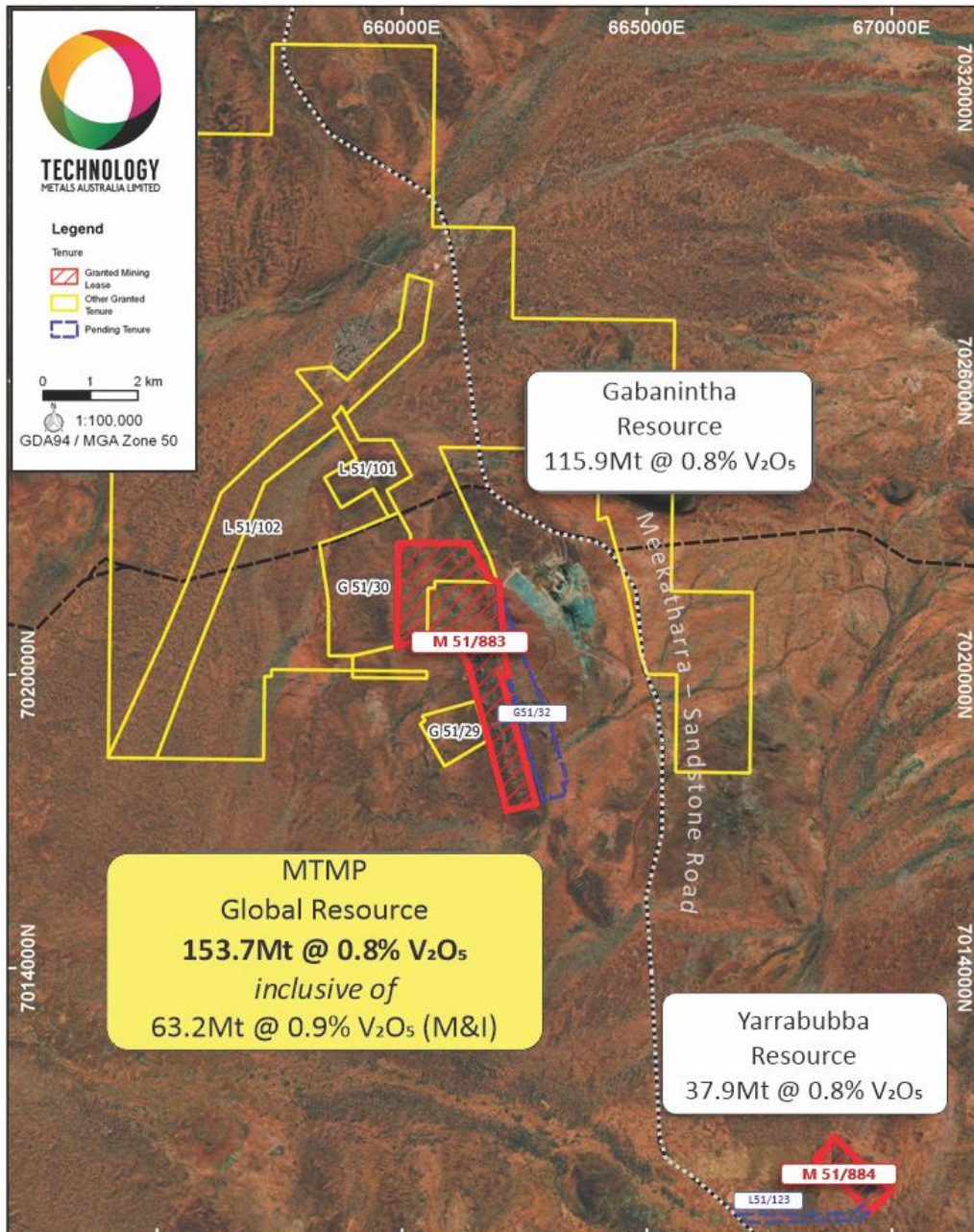


Figure 1: MTMP Tenure and Global Mineral Resource Estimate

MTMP Implementation Phase Update

Data from the commercial competitive tender process for the MTMP processing plant, all non-process infrastructure and site establishment works are being verified and evaluated with a view to progressing engagement with the preferred tenderers towards contract formation. This process is designed to enable the placing of orders for long lead plant and equipment as well as facilitate direct engagement between the range of tenderers, including FLSmidth as the preferred supplier of the roasting kiln section and other major equipment required for the MTMP processing plant.

The commercial pricing and development schedule generated from this workstream will, along with the mine production schedules generated from an updated Proven and Probable Ore Reserve estimate, underpin the completion of the MTMP Bankable Financial Model. As such the delivery of the updated Ore Reserve estimate will be a key determining factor in the timing of the release of outputs of the Implementation Phase.

Environmental Permitting

Progression of the environmental approvals process is a significant factor in the delivery of the MTMP Implementation Phase. The Company referred the Gabanintha Project to the WA Environmental Protection Authority (EPA) and continues to work collaboratively with the EPA as these very important environmental approval steps are progressed.

The Company is preparing a further update to the Environmental Review Document (ERD), addressing the EPA's queries from previous versions of the ERD, with particular focus on sustainable water abstraction, greenhouse gas emission reduction strategies targeting net zero by 2050, potential impacts on the Project and its surrounding environment from climate change and collaboration with Traditional Owners on cultural heritage protection.

The factors being addressed are consistent with the Company's environmental, social and governance (ESG) philosophy and are important fundamentals for the long-term success of the Project and delivery of benefits to all stakeholders while minimising impacts on environmental and heritage values.

Environment, Social and Governance (ESG)

The Company is continuing to work with WSP-Golder, Integrate Sustainability and other key stakeholders as it develops its ESG strategy, priority action plan and reporting structure. The Company is committed to developing the MTMP to the highest levels and has sought this expert advice to ensure compliance with international ESG/Sustainability/Responsible Mining frameworks.

The Company's ESG approach provides a holistic action plan to guide the development and long-term operation of the MTMP that will minimise impacts to the environment and heritage values, provides social benefits to the local community and to ensure the sustained success of the Project and engagement with, and support of, all stakeholders. This engagement includes working with the Traditional Owners on environmental and heritage matters and ensuring that the Project provides long-term benefits to the community through employment, contracting and training opportunities.

During the quarter, the Company assessed relevant ESG reporting frameworks through completing a gap analysis and initial benchmarking exercise against respected international governance frameworks. This exercise provides an important benchmark for the ongoing development of the Company's ESG approach as well as a foundation for engagement with government funding agencies, commercial banks, strategic investors and institutional financiers, all of which have ESG as a key consideration in funding decisions.

Traditional Owner Engagement

TMT continues to engage constructively with the Yugunga-Nya Native Title Aboriginal Corporation (YN PBC) and the broader Yugunga-Nya (YN) cultural community who have non-exclusive native title over lands including the MTMP area.

During the quarter TMT held briefing sessions for the Yugunga-Nya community members in Geraldton, Meekatharra, and Perth to outline the Company's proposed activities associated with the MTMP and provide opportunity for consultation and dialogue.

The main discussion points at these community briefing sessions covered the location of the MTMP, the layout and infrastructure required at Gabanintha and Yarrabubba, the studies and activities that have been undertaken to date, the cultural value of the land to the YN, and the long-term benefits and opportunities to the group and the region from the Project.

Further community briefing sessions with the YN community members are planned for the March 2023 quarter.

The Company continues to engage with the YN on heritage protection, with an on-country heritage survey completed during the quarter and further on-country trips planned for the current quarter to support the development of a Cultural Heritage Management Plan (CHMP). The co-design of a CHMP with the YN is a key step in establishing the long-term respectful management of culture and heritage with the YN and a very important component of the long-term success of the Project to deliver benefits to all stakeholders.

Electrolyte Studies

The Company, through its 100% owned subsidiary, vLYTE, is progressing studies with Japanese technology partner, LE System Co., Ltd (**LE System**) on the production of vanadium electrolyte using vanadium products from the MTMP and established LE System process. This work is part of an ongoing feasibility study for the development of TMT’s downstream vanadium electrolyte production capacity in Australia to support and facilitate the roll out of vanadium redox flow battery (**VRFB**) long duration stationary storage into the Australian energy market. TMT will fund and manage the feasibility study, whilst LE System will provide their knowledge, experience, and expertise.

Company representatives completed a site visit at LE System’s electrolyte production facility in Namie, Fukushima during the quarter, meeting with key staff members and completing a comprehensive tour of the facility. TMT representatives also visited LE System’s VRFB laboratory in Tokyo where manufacture and testing of TMT’s electrolyte will occur.

Whilst in Japan as guests of LE System, TMT conducted meetings with key stakeholders in the Japanese vanadium industry to provide an update on the progress of the MTMP. TMT continues to progress these relationships.



Figure 2: TMT personnel with LE System representatives outside the Namie, Fukushima plant

The Company is a key investor in the Future Battery Industries Co-operative Research Centre’s (**FBICRC**) Vanadium Electrolyte Project⁴. TMT is the largest shareholder in this research project, designed to enhance the performance of VRFB’s, demonstrating the Company’s commitment to downstream vanadium industry development in Australia.

⁴ ASX announcement 30 August 2022 – TMT Key Investor in Future Battery Industries CRC’s Electrolyte Project

Research work for this project is progressing on schedule with the first Project Management Committee (PMC) meeting completed during the quarter providing an update on the status of the work being undertaken.

Vanadium Market Outlook

The vanadium price appreciated significantly in the first half of 2022 as a result of the conflict in Ukraine, with the expectations of supply disruptions of Russian vanadium products. This position eased in mid-2022 as COVID related lockdowns in parts of China impacted on demand expectations and the market was steady during the second half of 2022.

Activity increased in the last calendar quarter from restocking in China and increased demand from the aerospace sector and prices increased accordingly. European vanadium pentoxide prices were reported to have exceeded US\$10/lb in early January 2023.

Announcements regarding vanadium redox flow battery (VRFB) installations and electrolyte capacity also increased in this quarter with the largest vanadium producer in the world signing a framework agreement to supply 8,000t V₂O₅ equivalent in 2023 for energy storage purposes⁵.

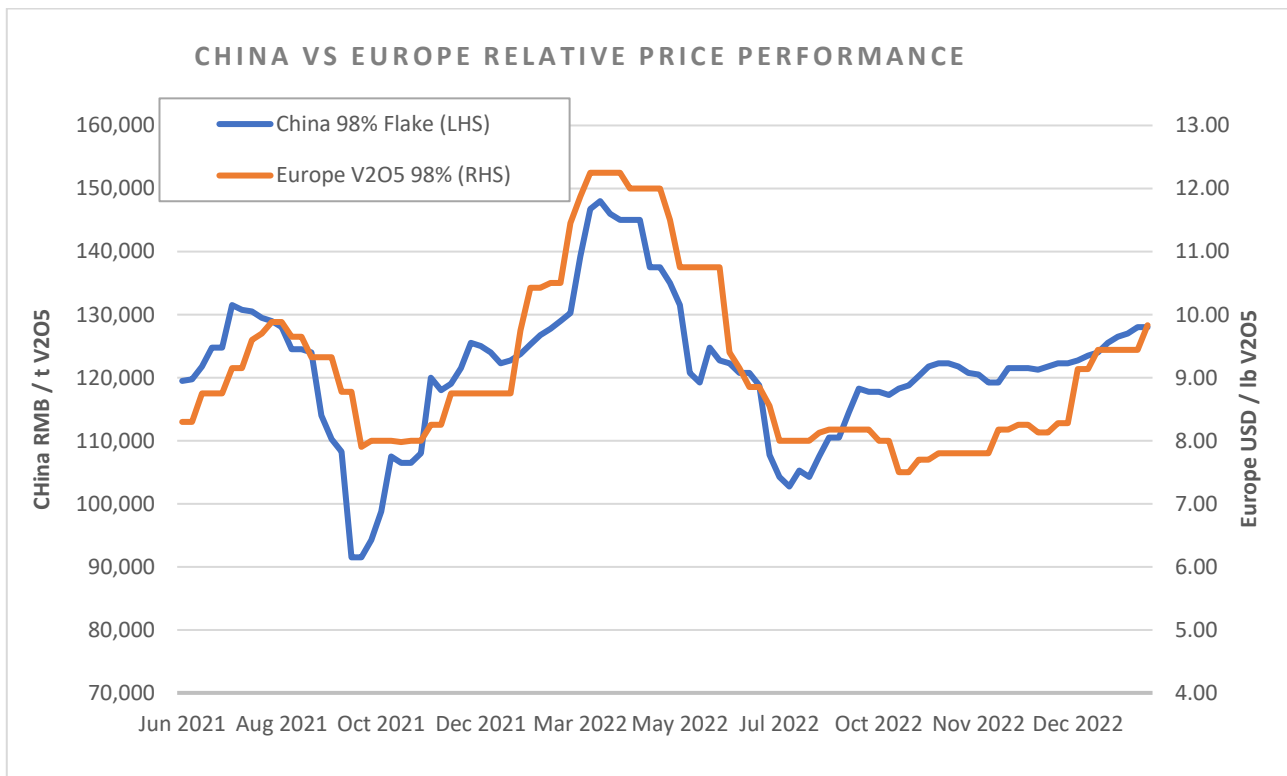


Figure 3: Vanadium Price Performance – June 2021 to January 2023 (Source: FerroAlloy.Net)

Figure 4 below highlights the increasing share of vanadium demand expected from the battery sector out to 2040 (source CRU Group). Demand in the vanadium market in 2022 was estimated at ~110kt V (~190kt V₂O₅) and is expected to double by 2032 owing more than 90% of this growth to VRFBs. This is expected to change the complexion of the vanadium market from 90% steel reducing to 25% by 2040, with VRFBs consuming more than 2/3rd of vanadium demand in 2040.

The demand for VRFBs is supported by government and regulators around the world enacting policies and legislation designed to accelerate medium to long duration energy storage and increased grid stability. The US

⁵ [Pangang Group Vanadium & Titanium signs vanadium battery energy storage material agreement with Dalian Rongke-Asian Metal](#)

Inflation Reduction Act, in effect from 1 January 2023 has been a key catalyst and Canada recently proposed a similar refundable tax credit to encourage investment into stationary electricity storage systems. In Europe, the REPowerEU plan will see accelerated permitting for renewable projects that include standalone energy storage.

In Australia, the government recently agreed to launch tenders for a mix of renewable energy and energy storage as part of their transition to net zero and installation of Australia's first ever utility-scale VRFB in regional South Australia is expected to commence within the coming quarter. The 2 MW / 8 MWh VRFB with a 6 MW solar PV array received A\$5.7 million funding support from the Australian Renewable Energy Agency (ARENA) to assist in demonstrating the operational viability of a grid-connected VRFB to prospective developers, regulators and investors.

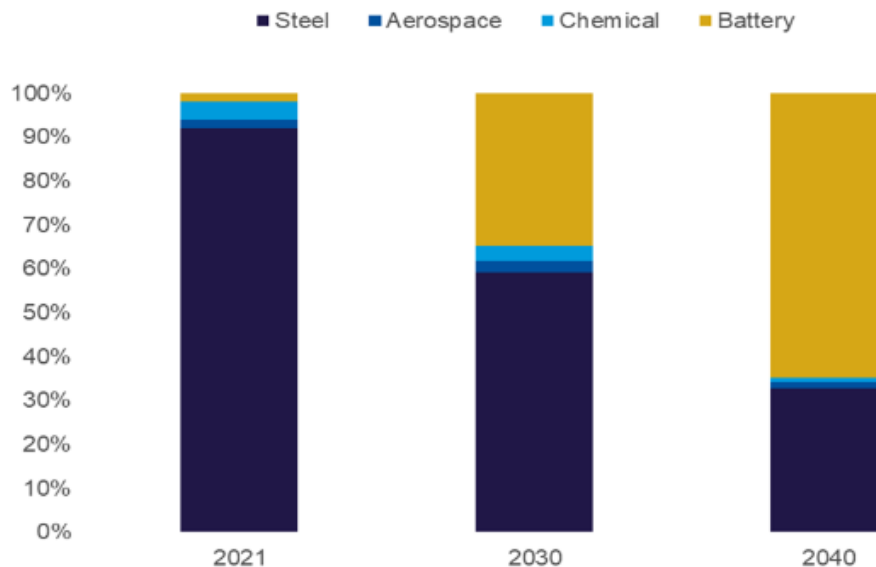


Figure 4: Vanadium Demand by end use 2021, 2030 and 2040, % (Source: CRU Group)

Corporate

Shares and Cash

As at 27 January 2023, the Top 20 shareholders held 57.5% of the fully paid Ordinary shares in the Company. The Company had cash of \$12.0 million as at 31 December 2022.

Project specific announcements lodged on the ASX during the December 2022 quarter were:

- 10 October 2022 – Memorandum of Understanding executed with Tata Steel
- 7 November 2022 – MTMP Global Mineral Resource Upgrade

In accordance with Section 6 disclosure in the Appendix 5B, payments to related parties of the entity during the December quarter included payments to directors and other key management personnel ("KMP") of \$296K of which \$126K has been capitalised as part of MTMP exploration and evaluation expenditure.⁶

Net outflows of \$584K were used in operating activities during the December quarter (refer Item 1.2 (d) and (e) and Item 1.8 of the Appendix 5B) comprises corporate consulting and legal fees, marketing and investor relations, balance of KMP remuneration and staff salaries not capitalised to the MTMP, insurance and travel expenses. Net out flows of \$2,546K used in investing activities during the December quarter (refer Item 2.1 (d) of the Appendix 5B) relate to continued work on the MTMP Implementation Study, including the Global Mineral Resource Update, kiln FEED study progress payments, metallurgical test work, preliminary engineering and evaluation of

⁶ ASX Listing Rule 5.3.5

commercial competitive tender process, progressing environmental studies and approvals, evaluating Project finance and offtake alternatives⁷.

Marketing and Promotions

During the quarter, the Company presented at the Mid-West and Gascoyne Major Projects conference⁸ in Geraldton and the RIU Resurgence Conference⁹ in Perth.

TMT representatives were in attendance at the November 2022 Fastmarkets International Ferroalloys Conference in Prague, Czech Republic, meeting with stakeholders in the ferroalloys and steel markets to further the Company's understanding of the market outlook for vanadium pentoxide and ferrovandium.

Top 20 Shareholders

The Top 20 Shareholder as at 27 January 2023 were:

Position	Holder Name	Holding	% IC
1	CITICORP NOMINEES PTY LIMITED	38,365,263	18.28%
2	BNP PARIBAS NOMS PTY LTD <DRP>	20,887,987	9.96%
3	STANDARD PASTORAL COMPANY PTY LTD	14,000,000	6.67%
4	RETZOS EXECUTIVE PTY LTD <RETZOS EXECUTIVE S/FUND A/C>	6,500,000	3.10%
5	DR ADEL WAGDI AWISS MORSI	5,150,000	2.45%
6	STATION NOMINEES PTY LTD <STATION SUPER FUND A/C>	5,000,000	2.38%
7	MR COLIN DAVID ILES	4,629,878	2.21%
8	ATASA HOLDINGS PTY LTD <TS3A FAMILY A/C>	4,343,995	2.07%
9	HSBC CUSTODY NOMINEES (AUSTRALIA) LIMITED	2,391,829	1.14%
10	RETZOS FAMILY PTY LTD <RETZOS FAMILY S/FUND A/C>	2,150,000	1.02%
11	PERRIWINKLE INVESTMENTS PTY LTD	2,114,764	1.01%
12	MR DAVID JAMES HARRINGTON	2,072,752	0.99%
13	MR RICHARD THOMAS HAYWARD DALY & MRS SARAH KAY DALY <DALY FAMILY S/F TOM A/C>	2,020,513	0.96%
14	SHAYDEN NOMINEES PTY LTD	1,964,866	0.94%
15	MR PAUL VENDA DIVIN	1,773,012	0.85%
16	BNP PARIBAS NOMINEES PTY LTD <IB AU NOMS RETAILCLIENT DRP>	1,737,722	0.83%
17	MR JACOB EDWARDS & MRS CATHY EDWARDS	1,620,000	0.77%
18	RONAY INVESTMENTS PTY LTD	1,419,467	0.68%
19	PASIAS HOLDINGS PTY LTD	1,375,811	0.66%
20	SAM GOULOPOULOS PTY LTD <S GOULOPOULOS F/SUPER A/C>	1,200,000	0.57%
	Total	120,717,859	57.53%
	Total issued capital - selected security class(es)	209,824,557	100.00%

⁷ ASX Listing Rule 5.3.1, 5.3.2

⁸ ASX Announcement 18 October 2022 – TMT Presentation – Mid-West and Gascoyne Projects October 2022

⁹ ASX Announcement 23 November 2022 – TMT Investor Presentation – RIU Resurgence Conference

Tenements

The tenement status as at 31 December 2022 is as follows¹⁰.

LOCATION	TENEMENT	INTEREST ACQUIRED OR DISPOSED OF DURING THE QUARTER	ECONOMIC INTEREST
Gabarintha Project (WA)	E51/1510	Nil	100%
Gabarintha Project (WA)	E51/1818	Nil	100%
Gabarintha Project (WA)	E51/2056	Application	100%
Gabarintha Project (WA)	G51/29	Nil	100%
Gabarintha Project (WA)	G51/30	Nil	100%
Gabarintha Project (WA)	G51/31	Nil	100%
Gabarintha Project (WA)	G51/32	Application	100%
Gabarintha Project (WA)	L51/101	Nil	100%
Gabarintha Project (WA)	L51/102	Nil	100%
Gabarintha Project (WA)	L51/117	Nil	100%
Gabarintha Project (WA)	L51/121	Nil	100%
Gabarintha Project (WA)	M51/883	Nil	100%
Gabarintha Project (WA)	P51/2930	Nil	100%
Gabarintha Project (WA)	P51/3140	Nil	100%
Yarrabubba Project (WA)	M51/884	Nil	100%
Yarrabubba Project (WA)	L51/123	Application	100%

¹⁰ ASX Listing Rule 5.3.3

AUTHORISED FOR RELEASE ON THE ASX BY THE COMPANY'S BOARD OF DIRECTORS

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Forward-Looking Statements

This document includes forward-looking statements. Forward-looking statements include, but are not limited to, statements concerning Technology Metal Australia Limited's planned exploration programs, corporate activities, and any, and all, statements that are not historical facts. When used in this document, words such as "could," "plan," "estimate," "expect," "intend," "may", "potential," "should" and similar expressions are forward-looking statements. Technology Metal Australia Limited believes that it has a reasonable basis for its forward-looking statements; however, forward-looking statements involve risks and uncertainties, and no assurance can be given that actual future results will be consistent with these forward-looking statements. All figures presented in this document are unaudited and this document does not contain any forecasts of profitability or loss.

Appendix 1: MTMP Global Mineral Resource Estimate²

Classification	Material	Mt	V ₂ O ₅ %	Fe %	Al ₂ O ₃ %	SiO ₂ %	TiO ₂ %	LOI %	P %	S %
Measured (Yarrabubba)	Massive	4.4	1.1	48.1	5.5	7.3	12.4	-0.4	0.01	0.3
	Disseminated	1.5	0.6	30.0	10.8	23.4	7.7	2.5	0.01	0.2
Measured (Gabanintha)	Massive	5.1	1.1	46.9	5.7	8.4	12.1	-0.2	0.01	0.3
	Disseminated	1.1	0.8	36.4	7.9	19.6	9.0	0.5	0.01	0.2
Measured	Massive + disseminated	12.1	1.0	44.3	6.5	10.9	11.4	0.1	0.01	0.2
Indicated (Yarrabubba)	Massive	8.0	1.1	48.1	5.4	7.1	12.5	0.0	0.01	0.3
	Disseminated	6.9	0.6	28.4	12.5	25.2	7.2	2.6	0.02	0.3
Indicated (Gabanintha)	Massive	19.5	1.1	48.9	5.2	6.2	12.8	-0.1	0.01	0.2
	Disseminated	16.7	0.6	27.3	13.3	26.7	7.0	3.0	0.03	0.2
Indicated	Massive + disseminated	51.2	0.9	39.0	8.9	15.6	10.1	1.3	0.02	0.2
Measured plus Indicated	Massive + disseminated	63.2	0.9	40.0	8.4	14.7	10.4	1.1	0.02	0.2
Inferred (Yarrabubba)	Massive	5.7	1.1	47.4	5.6	7.8	12.3	0.1	0.01	0.3
	Disseminated	11.4	0.6	27.9	12.6	25.8	7.2	2.0	0.02	0.4
Inferred (Gabanintha)	Massive	36.5	1.1	46.7	6.0	8.3	12.3	0.4	0.01	0.2
	Disseminated	36.9	0.5	26.6	12.9	27.6	6.9	3.4	0.03	0.3
Inferred	Massive + disseminated	90.5	0.8	36.2	9.6	18.3	9.5	1.8	0.02	0.2
TOTAL	Massive + disseminated	153.7	0.8	37.7	9.1	16.8	9.8	1.5	0.02	0.2

***Notes:**

- Mineral Resources are reported in accordance with the JORC Code (2012 Edition).
- Mineral Resources were estimated within constraining wireframe solids using a nominal 0.9% V₂O₅ lower cut-off grade for the massive magnetite zones and using a nominal 0.4% V₂O₅ lower cut-off grade for the banded and disseminated mineralisation zones.
- Mineral Resources are quoted from all classified blocks within the wireframe solids above a lower cut-off grade of 0.4% V₂O₅.
- Differences may occur due to rounding. Yarrabubba Measured and Indicated Mineral Resources are reported above an open pit optimised pit shell. Inferred Mineral Resources are reported to a lower RL limit of 250 mRL. Gabanintha Measured and Indicated Mineral Resources are reported above a lower RL limit of 240 to 280 mRL that approximates the Ore Reserve pit shells. Inferred Mineral Resources are reported to a lower RL limit of 170 mRL.

About Technology Metals Australia

Technology Metals Australia Limited (ASX:TMT) is an ASX-listed company focused on the exploration and development of its flagship, 100 per cent owned Murchison Technology Metals Project (**MTMP**) located 50km southeast of Meekatharra in the mid-west region of Western Australia. The MTMP is one of the highest-grade vanadium projects in the world and will have lowest quartile operating costs once developed.

The Company has finalised an Integration Study for the MTMP, bringing in high-grade ore from the satellite Yarrabubba deposit into the central processing hub at Gabanintha. The Integration Study completion has facilitated the progression of the Implementation Phase of the MTMP which is intended to support a Financial Investment Decision in the Project.

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 very significant use for vanadium is the rapidly developing energy storage (battery) sector with the expanding use and increasing penetration of the vanadium redox flow batteries (VRFB's). VRFB'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. VRFB'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 VRFB'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.

Global economic growth and increased intensity of use of vanadium in steel in developing countries will drive near term growth in vanadium demand.

Appendix 5B

Mining exploration entity or oil and gas exploration entity quarterly cash flow report

Name of entity

Technology Metals Australia Limited

ABN

64 612 531 389

Quarter ended ("current quarter")

31 December 2022

Consolidated statement of cash flows		Current quarter \$A'000	Year to date (6 months) \$A'000
1.	Cash flows from operating activities		
1.1	Receipts from customers	-	-
1.2	Payments for		
	(a) exploration & evaluation	-	-
	(b) development	-	-
	(c) production	-	-
	(d) staff costs	(173)	(290)
	(e) administration and corporate costs	(687)	(1,388)
1.3	Dividends received (see note 3)	-	-
1.4	Interest received	26	43
1.5	Interest and other costs of finance paid	-	-
1.6	Income taxes paid	-	-
1.7	Government grants and tax incentives	-	-
1.8	Other (Insurance Claim Proceeds)	250	250
1.9	Net cash from / (used in) operating activities	(584)	(1,385)
2.	Cash flows from investing activities		
2.1	Payments to acquire or for:		
	(a) entities	-	-
	(b) tenements	-	-
	(c) property, plant and equipment	-	(7)
	(d) exploration & evaluation	(2,546)	(5,243)
	(e) investments	-	-
	(f) other non-current assets	-	-

Mining exploration entity or oil and gas exploration entity quarterly cash flow report

Consolidated statement of cash flows		Current quarter \$A'000	Year to date (6 months) \$A'000
2.2	Proceeds from the disposal of:		
	(a) entities	-	-
	(b) tenements	-	-
	(c) property, plant and equipment	-	-
	(d) investments	-	-
	(e) other non-current assets	-	-
2.3	Cash flows from loans to other entities	-	-
2.4	Dividends received (see note 3)	-	-
2.5	Other (provide details if material)	-	-
2.6	Net cash from / (used in) investing activities	(2,546)	(5,250)
3.	Cash flows from financing activities		
3.1	Proceeds from issues of equity securities (excluding convertible debt securities) ¹	-	-
3.2	Proceeds from issue of convertible debt securities	-	-
3.3	Proceeds from exercise of options	-	-
3.4	Transaction costs related to issues of equity securities or convertible debt securities	-	-
3.5	Proceeds from borrowings	-	-
3.6	Repayment of borrowings	-	-
3.7	Transaction costs related to loans and borrowings	-	-
3.8	Dividends paid	-	-
3.9	Other (provide details if material)	-	-
3.10	Net cash from / (used in) financing activities	-	-
4.	Net increase / (decrease) in cash and cash equivalents for the period		
4.1	Cash and cash equivalents at beginning of period	15,095	18,600
4.2	Net cash from / (used in) operating activities (item 1.9 above)	(584)	(1,385)
4.3	Net cash from / (used in) investing activities (item 2.6 above)	(2,546)	(5,250)
4.4	Net cash from / (used in) financing activities (item 3.10 above)	-	-

Mining exploration entity or oil and gas exploration entity quarterly cash flow report

Consolidated statement of cash flows		Current quarter \$A'000	Year to date (6 months) \$A'000
4.5	Effect of movement in exchange rates on cash held	-	-
4.6	Cash and cash equivalents at end of period	11,965	11,965

5.	Reconciliation of cash and cash equivalents at the end of the quarter (as shown in the consolidated statement of cash flows) to the related items in the accounts	Current quarter \$A'000	Previous quarter \$A'000
5.1	Bank balances	11,965	15,095
5.2	Call deposits	-	-
5.3	Bank overdrafts	-	-
5.4	Other (provide details)	-	-
5.5	Cash and cash equivalents at end of quarter (should equal item 4.6 above)	11,965	15,095

6.	Payments to related parties of the entity and their associates	Current quarter \$A'000
6.1	Aggregate amount of payments to related parties and their associates included in item 1	170
6.2	Aggregate amount of payments to related parties and their associates included in item 2	126
<i>Note: if any amounts are shown in items 6.1 or 6.2, your quarterly activity report must include a description of, and an explanation for, such payments.</i>		

Mining exploration entity or oil and gas exploration entity quarterly cash flow report

7. Financing facilities	Total facility amount at quarter end \$A'000	Amount drawn at quarter end \$A'000
<i>Note: the term "facility" includes all forms of financing arrangements available to the entity. Add notes as necessary for an understanding of the sources of finance available to the entity.</i>		
7.1 Loan facilities	-	-
7.2 Credit standby arrangements	-	-
7.3 Other (please specify)	-	-
7.4 Total financing facilities	-	-
7.5 Unused financing facilities available at quarter end		-
7.6 Include in the box below a description of each facility above, including the lender, interest rate, maturity date and whether it is secured or unsecured. If any additional financing facilities have been entered into or are proposed to be entered into after quarter end, include a note providing details of those facilities as well.	-	

8. Estimated cash available for future operating activities	\$A'000
8.1 Net cash from / (used in) operating activities (item 1.9)	(584)
8.2 (Payments for exploration & evaluation classified as investing activities) (item 2.1(d))	(2,546)
8.3 Total relevant outgoings (item 8.1 + item 8.2)	(3,130)
8.4 Cash and cash equivalents at quarter end (item 4.6)	11,965
8.5 Unused finance facilities available at quarter end (item 7.5)	-
8.6 Total available funding (item 8.4 + item 8.5)	11,965
8.7 Estimated quarters of funding available (item 8.6 divided by item 8.3)	3.82
<i>Note: if the entity has reported positive relevant outgoings (ie a net cash inflow) in item 8.3, answer item 8.7 as "N/A". Otherwise, a figure for the estimated quarters of funding available must be included in item 8.7.</i>	
8.8 If item 8.7 is less than 2 quarters, please provide answers to the following questions:	
8.8.1 Does the entity expect that it will continue to have the current level of net operating cash flows for the time being and, if not, why not?	
Answer: Not Applicable	
8.8.2 Has the entity taken any steps, or does it propose to take any steps, to raise further cash to fund its operations and, if so, what are those steps and how likely does it believe that they will be successful?	
Answer: Not Applicable	
8.8.3 Does the entity expect to be able to continue its operations and to meet its business objectives and, if so, on what basis?	
Answer: Not Applicable	
<i>Note: where item 8.7 is less than 2 quarters, all of questions 8.8.1, 8.8.2 and 8.8.3 above must be answered.</i>	

Compliance statement

- 1 This statement has been prepared in accordance with accounting standards and policies which comply with Listing Rule 19.11A.
- 2 This statement gives a true and fair view of the matters disclosed.

Date: 31/1/23

Authorised by: Board of Directors
(Name of body or officer authorising release – see note 4)

Notes

1. This quarterly cash flow report and the accompanying activity report provide a basis for informing the market about the entity's activities for the past quarter, how they have been financed and the effect this has had on its cash position. An entity that wishes to disclose additional information over and above the minimum required under the Listing Rules is encouraged to do so.
2. If this quarterly cash flow report has been prepared in accordance with Australian Accounting Standards, the definitions in, and provisions of, *AASB 6: Exploration for and Evaluation of Mineral Resources* and *AASB 107: Statement of Cash Flows* apply to this report. If this quarterly cash flow report has been prepared in accordance with other accounting standards agreed by ASX pursuant to Listing Rule 19.11A, the corresponding equivalent standards apply to this report.
3. Dividends received may be classified either as cash flows from operating activities or cash flows from investing activities, depending on the accounting policy of the entity.
4. If this report has been authorised for release to the market by your board of directors, you can insert here: "By the board". If it has been authorised for release to the market by a committee of your board of directors, you can insert here: "By the [name of board committee – eg *Audit and Risk Committee*]". If it has been authorised for release to the market by a disclosure committee, you can insert here: "By the Disclosure Committee".
5. If this report has been authorised for release to the market by your board of directors and you wish to hold yourself out as complying with recommendation 4.2 of the ASX Corporate Governance Council's *Corporate Governance Principles and Recommendations*, the board should have received a declaration from its CEO and CFO that, in their opinion, the financial records of the entity have been properly maintained, that this report complies with the appropriate accounting standards and gives a true and fair view of the cash flows of the entity, and that their opinion has been formed on the basis of a sound system of risk management and internal control which is operating effectively.