

POWERING THE FUTURE



ASX : RVT

INVESTOR PRESENTATION



JANUARY 2023

IMPORTANT NOTICE & DISCLAIMER

IMPORTANT NOTICE AND DISCLAIMER

These presentation materials and the accompanying verbal presentation (together, the Presentation Materials) have been prepared by Richmond Vanadium Technology Limited (RVT or Company). By receiving the Presentation Materials, you acknowledge and represent to the Company that you have read, understood and accepted the terms of this disclaimer.

You must read this important notice before you attempt to access the Presentation Materials. The information on this page is not part of the Presentation Materials. If you do not understand it, you should consult your professional adviser without delay.

NOT AN OFFER

These Presentation Materials are for information purposes only. The Presentation Materials do not comprise a prospectus, product disclosure statement or other offering document under Australian law (and will not be lodged with the Australian Securities and Investments Commission) or any other law.

The Presentation Materials also do not constitute or form part of any invitation, offer for sale or subscription or any solicitation for any offer to buy or subscribe for any securities nor shall they or any part of them form the basis of or be relied upon in connection therewith or act as any inducement to enter into any contract or commitment with respect to securities. In particular, these Presentation Materials may not be released or distributed in the United States and do not constitute an offer to sell or a solicitation to buy, securities in the United States.

NOT INVESTMENT ADVICE

The Presentation Materials are not investment or financial product advice (nor tax, accounting or legal advice) and are not intended to be used for the basis of making an investment decision. Recipients should obtain their own advice before making any investment decision.

SUMMARY INFORMATION

The Presentation Materials do not purport to be all inclusive or to contain all information about the Company or any of the assets, current or future, of the Company.

The Presentation Materials contain summary information about the Company and its activities which is current as at the date of the Presentation Materials. The information in the Presentation Materials is of a general nature and does not purport to contain all the information which a prospective investor may require in evaluating a possible investment in the Company or that would be required in a prospectus or product disclosure statement or other offering document prepared in accordance with the requirements of Australian law or the laws of any other jurisdiction, including the United States of America.

To the maximum extent permitted by law, RVT disclaims any responsibility to inform any recipient of the Presentation Materials on any matter that subsequently comes to its notice which may affect any of the information contained in the Presentation Materials and undertakes no obligation to provide any additional or updated information whether as a result of new information, future events or results or otherwise.

FORWARD LOOKING STATEMENTS

Certain statements contained in the Presentation Materials, including information as to the future financial or operating performance of the Company and its business operations, are forward looking statements. Such forward looking statements:

- are necessarily based upon a number of estimates and assumptions that, while considered reasonable by the Company, are inherently subject to significant technical, business, economic, competitive, political and social uncertainties and contingencies;
- involve known and unknown risks and uncertainties that could cause actual events or results to differ materially from estimated or anticipated events or results reflected in such forward looking statements; and may include, among other things, statements regarding estimates and assumptions in respect of prices, costs, results and capital expenditure, and are or may be based on assumptions and estimates related to future technical, economic, market, political, social and other conditions.

The Company disclaims any intent or obligation to publicly update any forward-looking statements, whether as a result of new information, future events or results or otherwise.

The words “believe”, “expect”, “anticipate”, “indicate”, “contemplate”, “target”, “plan”, “intends”, “continue”, “budget”, “estimate”, “may”, “will”, “schedule” and similar expressions identify forward looking statements.

All forward looking statements contained in the Presentation Materials are qualified by the foregoing cautionary statements. Recipients are cautioned that forward looking statements are not guarantees of future performance and accordingly recipients are cautioned not to put undue reliance on forward looking statements due to the inherent uncertainty therein.

NO LIABILITY

The Company has prepared the Presentation Materials based on information available to it at the time of preparation. No representation or warranty, express or implied, is made as to the fairness, accuracy or completeness of the information, opinions and conclusions contained in or derived from the Presentation Materials or any omission from the Presentation Materials or of any other written or oral information or opinions provided now or in the future to any person. To the maximum extent permitted by law, the Company, its related bodies corporate (as that term is defined in the Corporations Act 2001 (Cth) (Corporations Act)) and the officers, directors, employees, advisers and agents of those entities do not accept any responsibility or liability including, without limitation, any liability as to or in relation to the accuracy or completeness of the information, statements, opinions or matters (express or implied) arising out of, contained in or derived from the Presentation Materials or any omission from the Presentation Materials or of any other written or oral information or opinions provided now or in the future to any person.

COMPETENT PERSON STATEMENT

Where the Company refers to the results of the Prefeasibility study, the Mineral Resource Estimate and the Ore Reserve Estimate as outlined in this presentation and as disclosed in the Independent Technical Assessment Report in the Company's Prospectus dated 14 October 2022 and Supplementary Prospectus dated 21 October 2022 and released to the ASX on 9 December 2022, it confirms that it is not aware of any new information or data that materially affects the information included in that Report and that all material assumptions, including the forecast financial information, and technical parameters continue to apply and have not materially changed.

Information on historical exploration results and Mineral Resources and Ore Reserves presented in this presentation, together with JORC Table 1 information, is contained in the Company's Prospectus dated 14 October 2022 and Supplementary Prospectus dated 21 October 2022 and released to the ASX on 9 December 2022.



BOARD OF DIRECTORS

JON PRICE

NON-EXECUTIVE DIRECTOR

Jon has over 30 years' experience in Australia and overseas across all aspects of the industry including exploration, development, construction and mining operations in the gold and advanced minerals sectors. Jon graduated as a metallurgist and holds a Masters in Mineral Economics from the Western Australian School of Mines. He then worked in various gold and advanced mineral operations including general manager of the Paddington gold and St Ives gold operations in the Western Australian goldfields.

More recently, Jon was the founding Managing Director of Phoenix Gold Limited which was acquired by Evolution Mining Limited (ASX:EVN).

Jon is currently a director Horizon Minerals Limited (ASX:HRZ) and a former director of Kingwest Resources Limited (ASX:KWR).

He is a member of the AusIMM.

DR SHUANG (SHAUN) REN

MANAGING DIRECTOR

Shaun completed his PhD in Economic Geology at the Australian National University and has over 35 years industrial experience in exploration, project assessment and feasibility studies. He has worked for a list of international mining companies including Rio Tinto, BHP and AngloGold-Ashanti in senior technical and management positions. Since 2016, Shaun has focussed on the Richmond Vanadium Project leading the team to successfully complete the Pre-Feasibility Study.

He is a member of the AusIMM.

BRENDON GRYLLS

NON-EXECUTIVE CHAIR

Brendon brings extensive relationships and networks at all levels of business and government.

After 16 years as a state MP and senior cabinet minister in Western Australia his Grylls Group business has grown to include strategic consulting work within the iron ore and gold industry, civil contracting, agriculture, First Nations partnership, aviation and innovative research into carbon abatement and developing new carbon offset projects.



CORPORATE OVERVIEW

RVT

ASX Code

\$23.4m

Cash
(as at 31/12/2022)

\$66.55m

Market Cap
(as at 25/1/2023)

221.8m

Shares
on Issue

13.1m

Options
on Issue¹

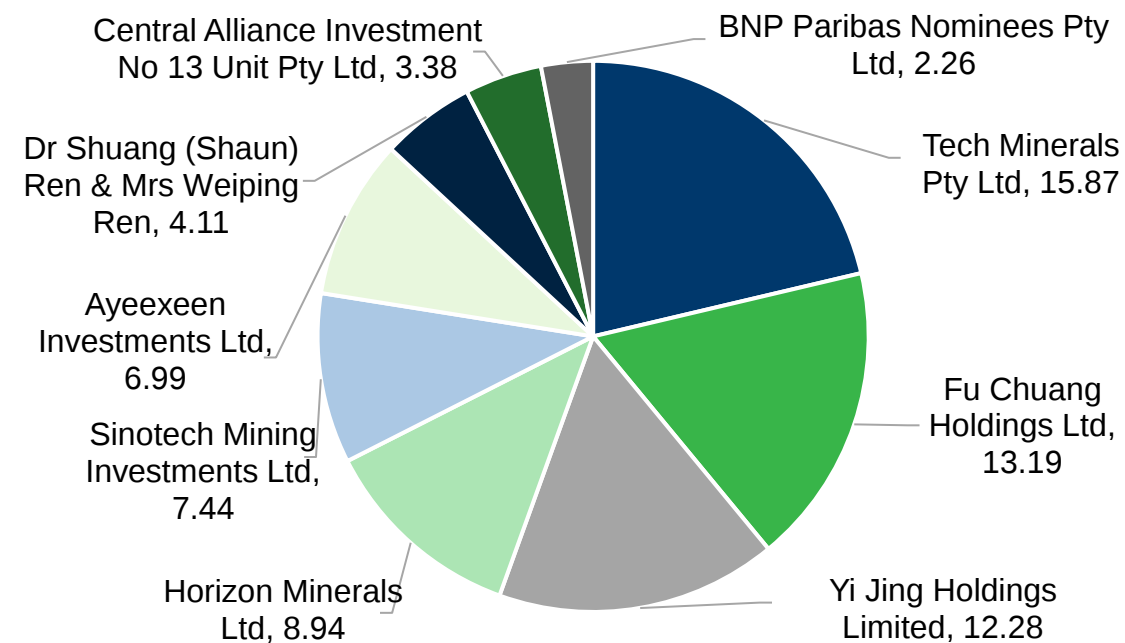
2.5m

Performance
Rights²

Board and Management

Brendon Grylls	Independent Non-Executive Chair
Shuang (Shaun) Ren	Managing Director
Jon Price	Non-Executive Director
Joanne Day	Administration Manager & Company Secretary
Lingli (Lily) Zhao	Chief Project Engineer
Warwick Nordin	Chief Resource Geologist

Top 10 Shareholders



¹ Includes 6.5m director options and 6.65m Lead Manager options, all of which are escrowed for 2 years to 13 December 2024

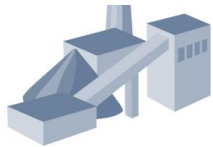
² Includes 1.8m director performance rights which are escrowed for 2 years to 13 December 2024

INVESTMENT HIGHLIGHTS



World Class Project

One of the largest undeveloped oxide vanadium resources in the world capable of supporting a vanadium operation for +100 years at current throughput rates¹



Tested metallurgy with proven technology

Proven metallurgical solution via conventional processing resulting in concentrate grades of 1.82% V₂O₅¹

Completed process flowsheet, provisional patent application lodged



Located in Queensland with good access to infrastructure

Close to existing infrastructure including gas pipeline, HV network line, major highway and railway linked to Townsville Port



PFS delivers compelling financial returns

Refining recovery at 86.1% produces average production of 12,700t V₂O₅ pa¹

At US\$9.60/lb V₂O₅, project generates NPV10 of A\$613M with IRR of 38% and payback of 3.2 years¹



Promising long-term outlook for Vanadium

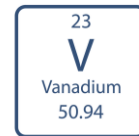
Vanadium poised to play a pivotal role in commercialisation of renewable energy

Vanadium consumption for VRFB's is forecast to grow at an average 20.7% a year from 2020 - 2029²



Lower carbon footprint compared to titanomagnetite projects

Mineralisation located at an average depth of 2m to 25m below surface in soft marine sediment - no drilling, blasting, grinding or roasting required¹



Critical Mineral – attracts funding

Queensland Government contributing towards constructing a vanadium common-user facility to process vanadium



Co-ordinated Project Status Awarded

The only critical minerals project to be awarded Coordinated Project status by the Queensland Government

¹ Refer RVT Prospectus dated 14 October 2022 and Supplementary Prospectus dated 21 October 2022 released to ASX on 9 December 2022

² Outlook for selected critical minerals in Australia 2021 Report, Dept of Industry, Science, Energy & Resources, Australian Government



WHY VANADIUM

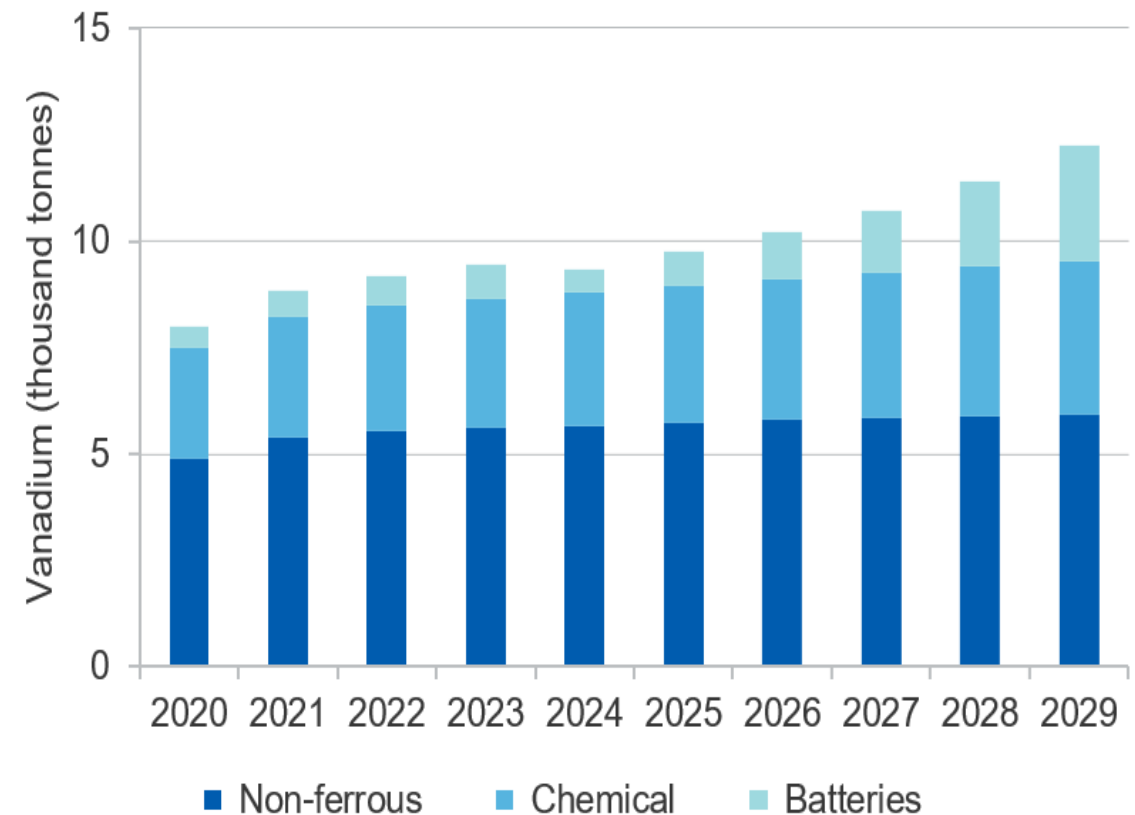
Critical Mineral

- Listed by the Australian and US Government's as a "Critical Mineral"
- China, Russia and South Africa currently account for almost all worldwide production
- Australia's Vanadium resources are the 3rd largest in the world, accounting for 18 per cent of world economic demonstrated resources but current production levels are negligible¹

Demand / Supply

- Majority of current vanadium produced as by-product of magnetite or uranium processing - limited supply of battery material
- Predominantly used in the production of steel with more than 90% of global supply consumed by steel mills¹
- Promising long-term potential for use in vanadium redox flow batteries (VRFBs) for grid-scale electricity applications
- Vanadium consumption for batteries is forecast to grow at an average 20.7% a year over 2020 – 2029¹

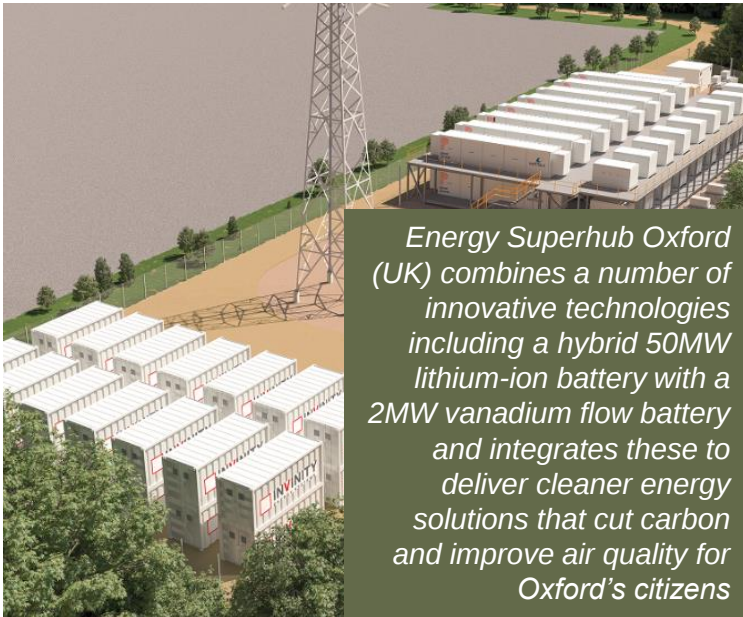
Projected vanadium consumption by end-use (excluding steel)¹



VANADIUM REDOX FLOW BATTERIES (VRFBs)



China builds the world's largest lithium-free battery - an 800 MWh vanadium redox flow battery designed to buffer load peaks and heat homes



Energy Superhub Oxford (UK) combines a number of innovative technologies including a hybrid 50MW lithium-ion battery with a 2MW vanadium flow battery and integrates these to deliver cleaner energy solutions that cut carbon and improve air quality for Oxford's citizens

- Adoptable energy storage system ideal for residential and commercial applications
- Megawatt capacities for the power grid and standalone storage systems for solar and wind farm installation
- Non-flammable compared with lithium batteries with longer service life of around 20 years – compared with 10 years for lithium batteries – and can discharge 100% of their stored energy¹
- As lithium batteries can be reused at end of life the technologies might appear to compete, however they can be complementary. Lithium batteries discharge over typically 4-5 hours, whereas the discharge profile for VRFBs is often longer¹
- Electricity from renewable sources could provide 65% of the world's total electricity supply by 2030. It could decarbonize 90% of the power sector by 2050, massively cutting carbon emissions and help to mitigate climate change²

Ultra Power Systems has a stand-alone-power system in operation at the Second Fortune Gold Mine near Leonora and is about to deploy to IGO's Silver Knight exploration camp



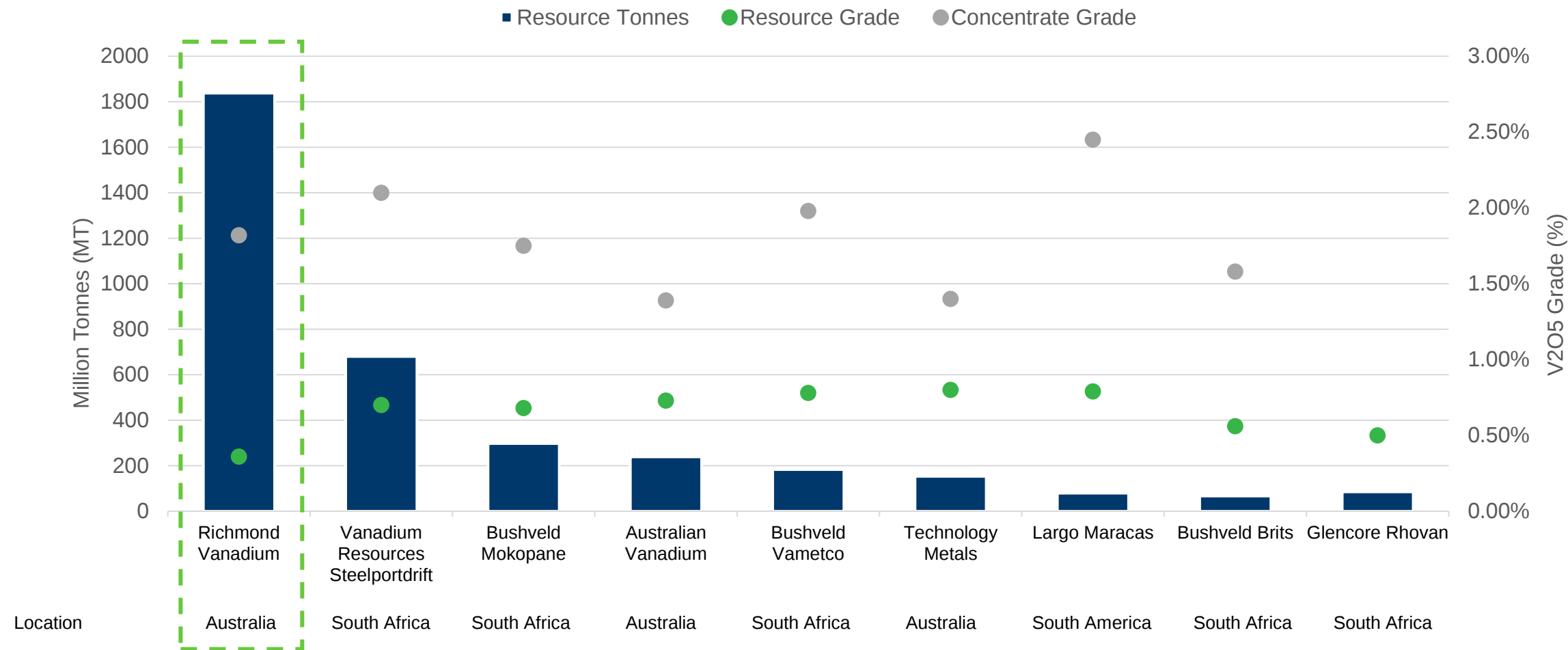
Plans unveiled in Nov 2022 for Australia's biggest vanadium flow battery and gigawatt factory. North Harbour Clean Energy – backed by superannuation giant Aware Super and Europe-based CellCube are to build a 4MW, 16MWH vanadium redox flow battery for an industrial customer which they say will be the biggest in the country, and a "lighthouse" project for the technology



¹ Outlook for selected critical minerals in Australia 2021 Report, Dept of Industry, Science, Energy & Resources, Australian Government

² Renewable energy – powering a safer future, United Nations

GLOBAL PRIMARY MINERAL RESOURCES



The above chart compares Mineral Resources reported under different codes and companies at different stages of development. Only Resources with a cut-off grade of $\geq 0.30\%$ and an average resource grade of $\geq 0.35\%$ are shown. All comparative data has been sourced from public company disclosures – please refer to Appendix 2 “Peer Comparison Table” attached to this presentation.

ENVIRONMENTAL, SOCIAL & GOVERNANCE

We aim to serve as a catalyst for local economic development through transparent and respectful engagement, and as responsible stewards of the environment

ENVIRONMENT

- Epic Environmental Pty Ltd was commissioned to undertake a range of environmental studies with a view of attaining the environmental approvals required for project development
- Epic has significant local experience - recently delivering an Environmental Impact Statement (EIS) for a vanadium project near Julia Creek.
- Preliminary Environmental Assessment indicated no major environmental constraints to preclude the project from proceeding.
- Wet and dry season flora and fauna surveys conducted across life-of-mine area.
- Minister for the Environment confirmed the project will be assessed under the bilateral agreement between the Queensland and the Commonwealth governments providing a clear pathway for the approvals process.
- EIS Terms of Reference released for public comment in December 2022.



SOCIAL

- Use of local business, civil, accommodation, services and meals
- Regularly engage with the community and key stakeholders

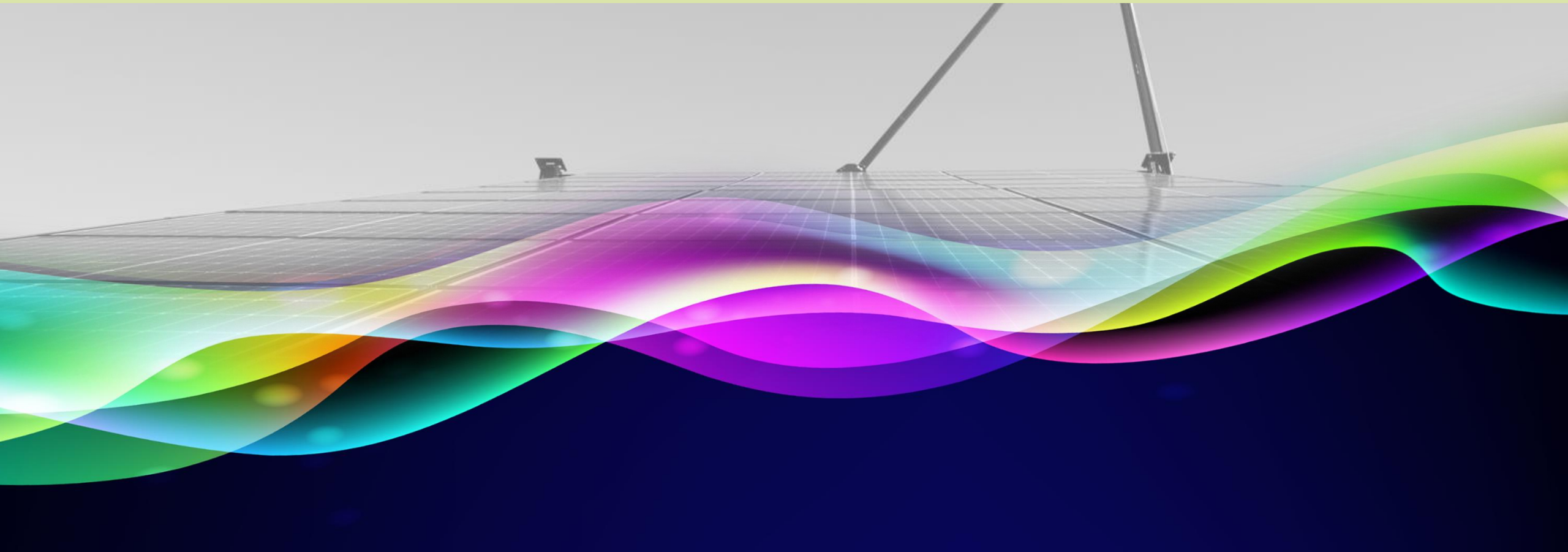


GOVERNANCE

- Board committed to establishing RVT as a reputable, modern, exploration and development company with strong ESG principles.
- Integrating best practice standards and corporate governance principles.
- First critical minerals project to be declared a Coordinated Project by Queensland Government – the highest level of facilitation.



PROJECT DETAILS



RICHMOND VANADIUM PROJECT OVERVIEW

Location

- Located in mining friendly jurisdiction of North Queensland
- Close to existing infrastructure including gas pipeline, proposed Copper String 2.0 HV network line, Flinders Highway and Great Northern railway linked to Townsville Port
- Three main prospects – Lilyvale, Manfred and Rothbury covering area of ~1,400 km

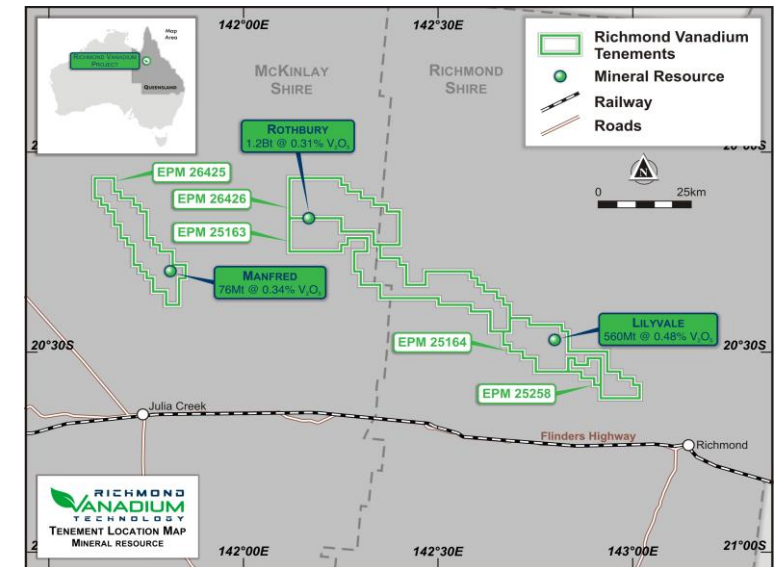
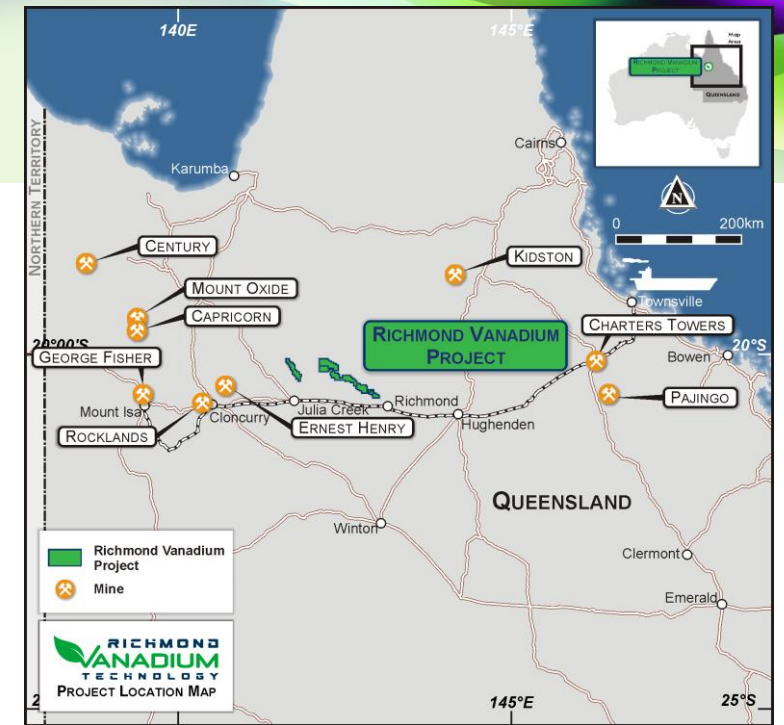
Mineral Resource & Ore Reserve

- Global Mineral Resource estimate for the Project stands at **1.8Bt @ 0.36% for 6.65Mt V_2O_5 at a 0.30% lower cut-off**¹
- Maiden Ore Reserve for Lilyvale Deposit of **459.2Mt @ 0.49% for 2.25Mt V_2O_5** ¹

Geology & Mineralisation

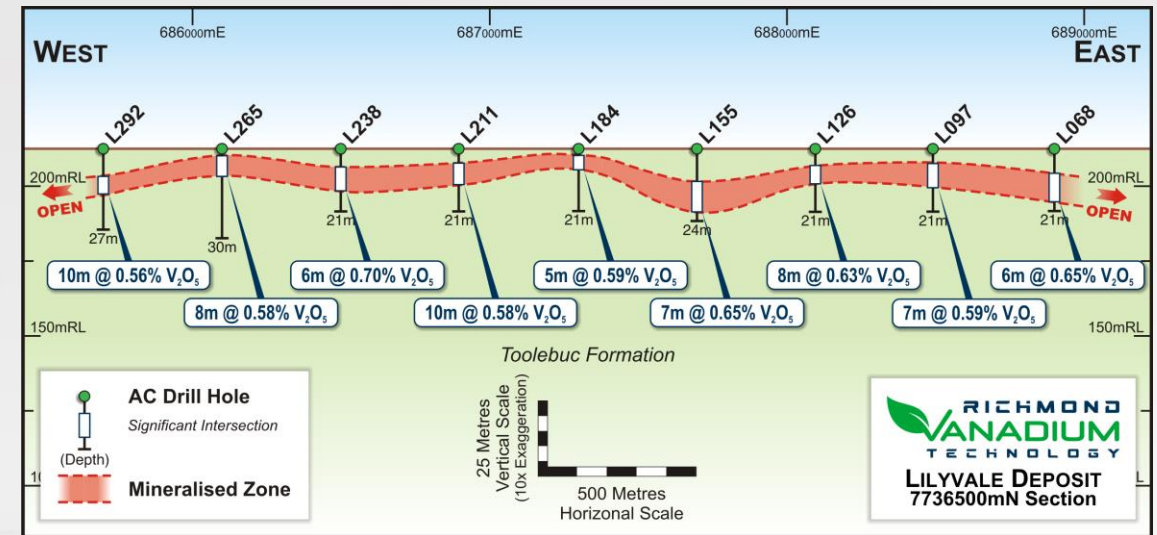
- One of the largest non-titanomagnetite vanadium deposits of its kind (soft marine sediments) globally
- Vanadium mineralisation at an average depth of between 2m and 25m below surface
- Soft sediment means no drilling, blasting, grinding (milling) or roasting - significantly reducing power requirements, capex and operating costs

¹ Refer Prospectus dated 14 October 2022, Section 4 and Supplementary Prospectus dated 21 October 2022 released to ASX on 9 December 2022.



LILYVALE DEPOSIT

- Located 45km north-west of the Richmond township, in close proximity to the Flinders Highway and Great Northern railway
- Indicated plus Inferred Mineral Resource of 560Mt @ 0.48% V_2O_5 ¹
- Mineralisation is associated with the Toolebuc geological formation at an average depth of between 2m and 25m below surface
- Starter pit will focus on the upper mineralised zone at Lilyvale as it is:
 - highest grade based on drilling to date (0.52% V_2O_5)¹
 - can be mined simply by free dig open cut mining with very low strip ratio (0.92)¹
 - amenable to low cost removal of coarse fraction via scrubbing, trommelling, screening, cycloning and flotation to produce high grade feedstock of 1.82% V_2O_5 ¹
 - waste/tailings is non-toxic



¹ Refer Prospectus dated 14 October 2022 and Supplementary Prospectus dated 21 October 2022 released to ASX on 9 December 2022

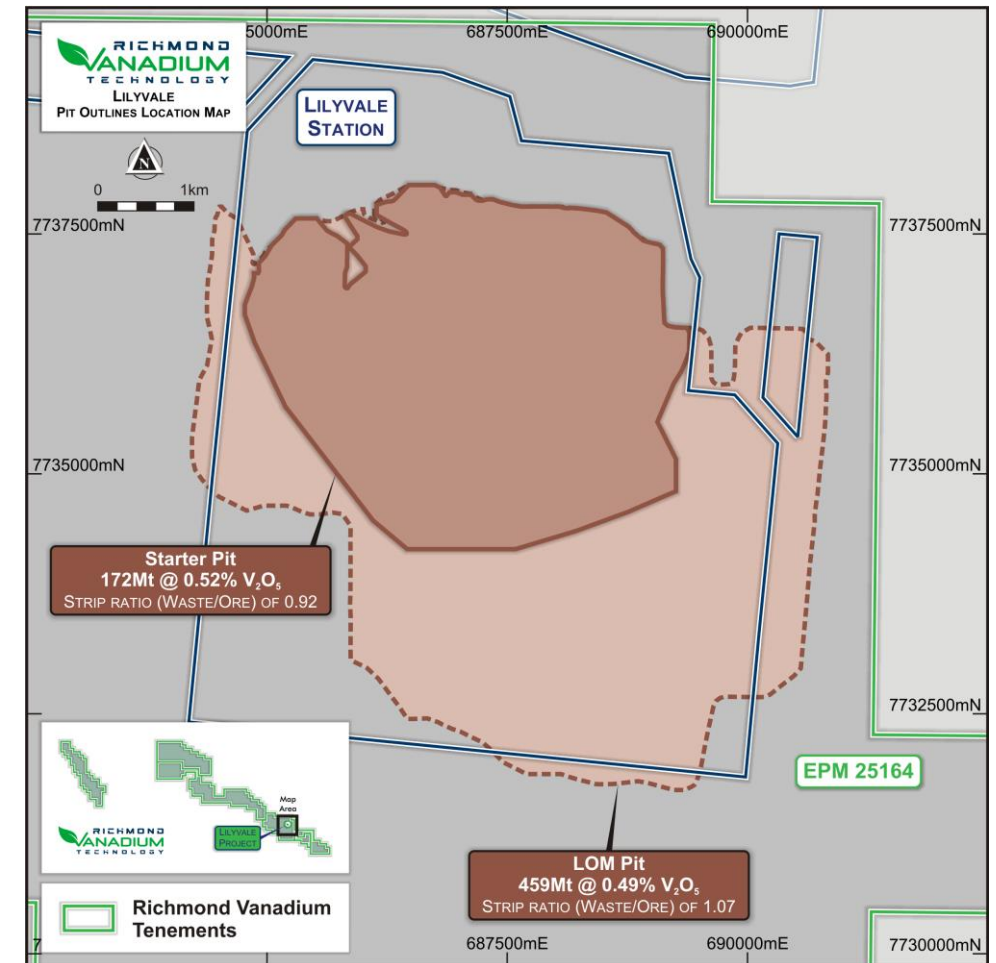
LILYVALE DEPOSIT ORE RESERVE¹

- Maiden open pit Ore Reserve at the Lilyvale Deposit of:
459.2Mt @ 0.49% for 2.25Mt V₂O₅
- Two pits designed over the Lilyvale Deposit Indicated Mineral Resource:
 - LOM (Life of Mine) pit hosting Probable Reserves; and
 - Starter pit focussed on the higher grade part of the LOM pit
- Both pits host Probable Reserves designed over Indicated Resources according to the 2012 JORC code.
- Preliminary starter pit designed to achieve a lower strip ratio (0.92) and higher ore grade (0.52% V₂O₅) in early pit development periods.

Ore Reserve – Lilyvale Deposit at a cut-off grade 0.30%

Pit	Total Rock (MT)	Probable Ore (MT)	Strip Ratio (W/O)	Average V ₂ O ₅ grade for Probable Ore (%)
LOM	951.7	459.2	1.07	0.49
Starter	331.7	172.5	0.92	0.52

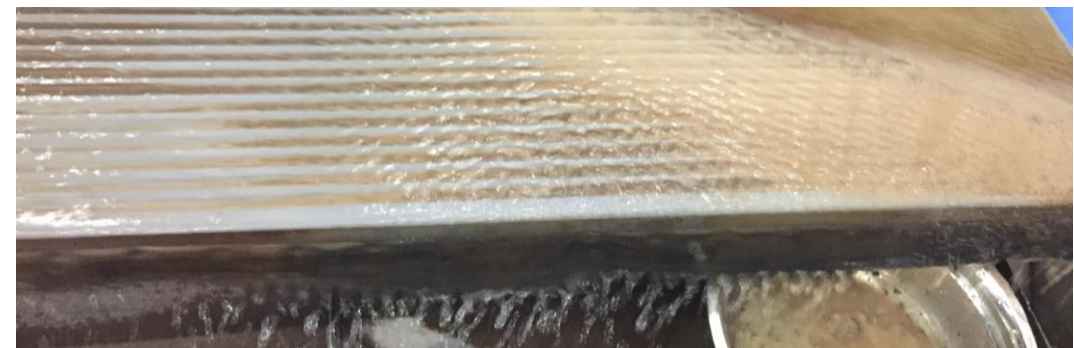
Refer to Appendix 1 “Mineral Resource & Ore Reserve Estimates” attached to this presentation



¹ Refer Prospectus dated 14 October 2022 and Supplementary Prospectus dated 21 October 2022 released to ASX on 9 December 2022

PROVEN METALLURGICAL RESULTS¹

- Project is a large, low grade, high calcite content resource
- RVT's process flowsheet uses proven conventional technology
- 1.2 tonnes of vanadium samples sent to two research institutes
- Testwork programs jointly developed, with all testwork supervised by RVT
- Two-step process determined:
 - 1) ore upgraded from a mined grade of 0.49% to a shipping grade of 1.82% V_2O_5 concentrate
 - 2) extraction via refining to produce 98% V_2O_5 flake for use in the energy storage and steel markets
- Concentrate produced reduced the calcium carbonate grade significantly, enabling a number of downstream processing options to be considered
- Testwork enabled flowsheet design to be completed during PFS
- Provisional patent application lodged with IP Australia relating to the method for the concentration of vanadium



¹ Refer Prospectus dated 14 October 2022 and Supplementary Prospectus dated 21 October 2022 released to ASX on 9 December 2022



PRE-FEASIBILITY STUDY¹

- Indicates project **presents an opportunity to develop** and produce a vanadium concentrate at 1.82%
 - Mining and concentration options are known while logistics and available infrastructure provide **a positive economic solution**
 - Modest up-front capital costs of **A\$242.2m** (US\$176.8m) for concentrating in Australia and refining overseas, and operating cash costs **of A\$8.66/lb** (US\$6.32/lb²) of 98% V₂O₅ flake²
- Independent Technical Assessment Report completed in August 2022 notes costs will be more susceptible to changes in the flowsheet selection, design and mechanical equipment sizing as engineering design advances, than changes in equipment pricing
- At US\$9.60/lb (study price) project generates **NPV_{10%} of A\$613.0M (US\$447.5M) with IRR of 38%** and payback of 3.2 years, concentrating in Australia and refining offshore
 - BFS will consider preferred onshore refining option due to a changed government landscape, and look at further optimising the process to reduce capital costs
 - In November 2021 the **Queensland Government announced it will contribute “at least” \$10 million towards constructing a vanadium common-user facility** to process vanadium from the state’s vast deposits



¹ Refer Prospectus dated 14 October 2022, at section 4 and also ITAR at Schedule 1 and Supplementary Prospectus dated 21 October 2022 released to ASX on 9 December 2022

² AUD-USD FX rate (0.73)

SUMMARY OF KEY PFS OUTCOMES¹

Measure	PFS outcome US\$9.60/lb V ₂ O ₅ (Study Price)
Life of Mine (LOM)	
Total pit tonnage (Mt)	951.7
Stripping ratio (waste: ore)	1.07
Mined ore (Mt)	459.2
Ore Grade V ₂ O ₅ (%)	0.49



Measure	PFS outcome US\$9.60/lb V ₂ O ₅ (Study Price)	Sensitivity Analysis		
		PFS outcome at US\$7.60/lb V ₂ O ₅	PFS outcome US\$8.60/lb V ₂ O ₅	PFS outcome US\$10.60/lb V ₂ O ₅
PFS (Initial 25-year life)	(based on concentrating in Australia, refining offshore)			
Mined ore (Mt)	101.5			
Ore Grade V ₂ O ₅ (%)	0.49			
Concentrate Produced V ₂ O ₅ (Mt)	19.75			
Concentrate Grade (%)	1.82			
Refining recovery average (%)	86.1			
V ₂ O ₅ 98% Flake Produced (kt)	317.5			
Capital costs (\$M)	A\$242.2			
Operating costs (\$/lb)	A\$8.66 (US\$6.32 ²)			
NPV @ 10% (\$m) (post-tax)	A\$613	A\$139	A\$376	A\$850
Payback (years)	3.2	8.7	4.6	2.5
IRR	38%	17%	28%	48%

All material assumptions in the sensitivity analysis continue to apply and have not materially changed. The sensitivity analysis included in the ITAR (refer Prospectus dated 14 October 2022, ITAR at Schedule 1, Figure 10-1) shows that the project is most sensitive to the product price followed by the exchange rate. A 15% change in the concentrate product price results in a 31% - 41% change in NPV.

¹ Refer Prospectus dated 14 October 2022, at section 4 and also ITAR at Schedule 1 and Supplementary Prospectus dated 21 October 2022 released to ASX on 9 December 2022

² AUD-USD FX rate (0.73)



COMPARISON OF ESTIMATED PRODUCTION COST BREAKDOWN

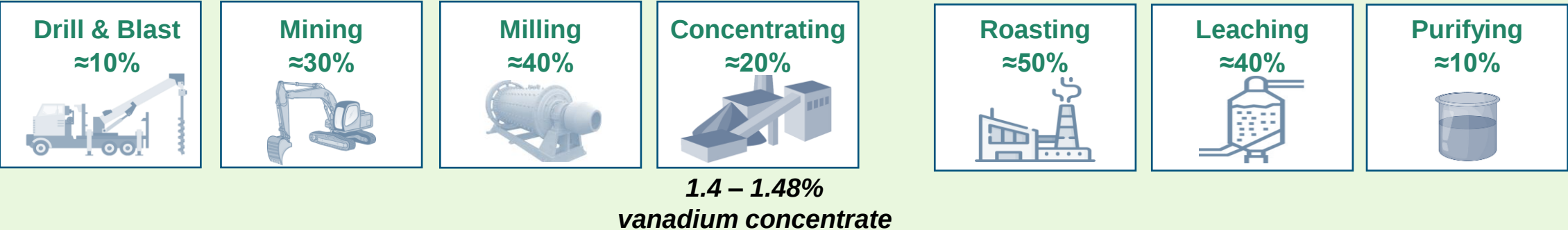
Soft Oxide vs Titanomagnetite Vanadium Deposits

Concentrating

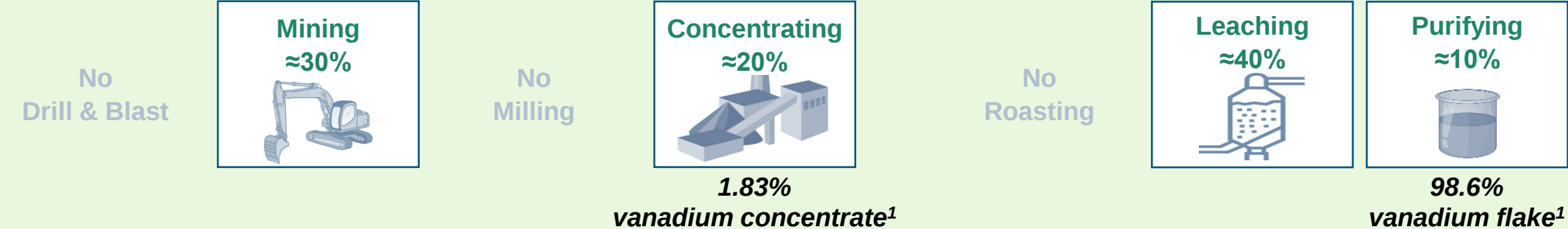
Refining

to minimum 98% to meet vanadium flake standard

TITANOMAGNETITE VANADIUM DEPOSIT



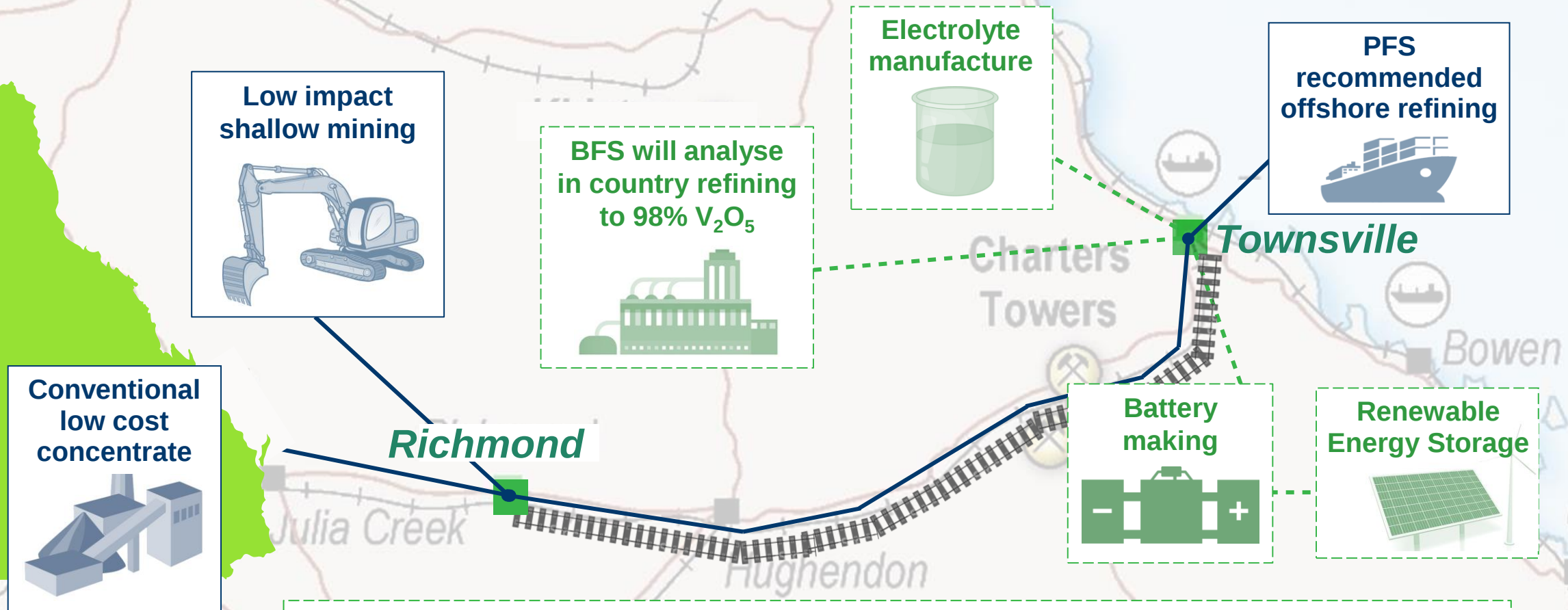
SOFT OXIDE VANADIUM DEPOSIT



¹ Refer Prospectus dated 14 October 2022 and Supplementary Prospectus dated 21 October 2022 released to ASX on 9 December 2022

MINE TO METAL TO BATTERY

An economic analysis for beneficiation to a concentrate in Australia, and a comparison of refining offshore in China or onshore in Australia was carried out as part of the PFS. The PFS recommended that refining to produce V₂O₅ flake be carried out offshore due to lower capital costs.



The BFS will undertake further analysis of downstream refining to be conducted in Australia (Queensland) as the preferred option due primarily to a changed government landscape. It is noted that an Australian refinery option may require government funding assistance due to the lower financial returns in this scenario. The BFS will consider further optimising the process to reduce capital costs if it was carried out in Australia as noted in the Company's Prospectus, Schedule 1 (ITAR) released to the ASX on 9 December 2022.

The process flow for electrolyte manufacture, battery making and renewable energy storage is not a direct asset of the Company, however is part of the intended market to which the Company's product is to be supplied, including via investment into and arrangements with Ultra Power Systems Pty Ltd (refer Company's Prospectus section 5 released to the ASX on 9 December 2022).

INVESTMENT IN ULTRA POWER SYSTEMS¹

RVT has entered into a Binding Term Sheet to invest \$3.0 million into Ultra Power Systems

- Binding Term Sheet signed 5 August 2022 to invest \$3M into Ultra Power Systems Pty Ltd (Ultra)
- Ultra will purchase vanadium pentoxide flake from RVT – subject to availability and timeliness of delivery, quality and price
- RVT has the right to appoint one nominee director for so long as it holds a minimum interest of 7.5% in Ultra
- Formal Agreement to be signed by 28 February 2023

Ultra has developed its own VRFB system, the Ultra V40 battery module, and a standalone power system which integrates solar and wind turbines into a mobile and scalable power generation system highly suitable for off-grid applications

Ultra's licenced electrolyte is a premium product that has a substantially higher operating temperature range and higher energy density without requiring additives

Ultra provides RVT with a strategic partnership with an Australian battery manufacturer, as well as substantive off-take agreements in the future

Ultra's initial markets, both in Australia and overseas, include off-grid applications within the mining sector (such as bore pumps, exploration camps, mining villages and ultimately full mine electrification), remote communities, community batteries, residential microgrids, and the specific charging demands of the electric vehicle sector.



CONTACT US

Dr Shuang (Shaun) Ren

Managing Director

T: +61 8 6141 9500

E: info@richmondvanadium.com.au

Jon Price

Non-Executive Director

T: +61 8 6141 9500

E: info@richmondvanadium.com.au

Victoria Humphries

Media & Investor Relations

T: +61 431 151 676

E: victoria@nwrcommunications.com.au

This presentation has been authorised for release by the
Board of Richmond Vanadium Technology Limited

 www.richmondvanadium.com.au

 Richmond Vanadium Technology

 @richvanadium

 **RICHMOND
VANADIUM
TECHNOLOGY**

APPENDIX 1 – MINERAL RESOURCE AND ORE RESERVE ESTIMATES¹

Richmond – Julia Creek Project Mineral Resource and Contained Metal (at 0.30% V ₂ O ₅ cut-off)				
Deposit	Category	Tonnage (MT)	V ₂ O ₅ (%)	V ₂ O ₅ (MT)
Rothbury	Inferred	1,202	0.30	3.75
Lilyvale	Indicated	430	0.50	2.15
Lilyvale	Inferred	130	0.41	0.53
Manfred	Inferred	76	0.35	0.26
Totals and Averages		1,838	0.36	6.65

Note:

Reported in accordance with JORC Code (2012) at cut-off grade 0.3% V₂O₅

Metal content calculated using grades with 3 decimal places

Metal content varies from Mineral Resources Update by HGS (ASX:IRC “Intermin announces world –class Vanadium Resource”, dated 20 March 2018), due to arithmetic errors. The table above reflects the correct results for Manfred.

Metal content of molybdenum and nickel can be found in Table 5-1 of the ITAR (Refer Prospectus dated 14 October 2022 and Supplementary Prospectus dated 21 October 2022 released to ASX on 9 December 2022)

Richmond – Julia Creek Project Ore Reserve (Lilyvale Deposit)			
Category	Tonnage (MT)	V ₂ O ₅ (%)	V ₂ O ₅ (MT)
Proved	0.00	0.00	0.00
Probable	459.2	0.49	2.25
Total	459.2	0.49	2.25

Note:

At cut-off grade (COG) of 0.3% V₂O₅

The Ore Reserve for the project is reported according to the Australasian Code for Reporting of Exploration Results, Mineral Resources and Ore Reserves, JORC

The Ore Reserve statement is based on information compiled by Dr Dawei Xu, MAusIMM



APPENDIX 2 – PEER COMPARISON TABLE

Company	Code	Project	Stage	Resource Category	Resource Tonnes (Mt)	Resource Grade (V ₂ O ₅ %)	Total Resource (Mt @ V ₂ O ₅ %)	Concentrate Grade	Information Source and Notes
Richmond Vanadium	ASX:RVT	Richmond – Julia Creek	Development	Indicated	429.4	0.50	1,838Mt @ 0.36% (Cutoff V ₂ O ₅ = 0.30%)	1.82	Refer Prospectus dated 14 October 2022 and Supplementary Prospectus dated 21 October 2022 released to ASX on 9 December 2022
				Inferred	1,408.6	0.33			
Vanadium Resources	ASX:VR8	Steelpoortdrift	Development	Measured	145.5	0.72	680Mt @ 0.70% (Cutoff V ₂ O ₅ = 0.45%)	2.10	ASX Announcement dated 17/11/2022 Investor Presentation
				Indicated	327.3	0.70			
				Inferred	207.4	0.68			
Bushveld	LSE:BMN	Mokopane	Development	Indicated	63.2	1.32	297Mt @ 0.68% (Cutoff V ₂ O ₅ = 0.30%)	1.75	Mokopane Vanadium project Pre-Feasibility Study 30/1/2016 bushveldminerals.com/wp-content/uploads/2017/08/201602040458050.pdf
				Inferred	234.0	0.51			
Australian Vanadium	ASX:AVL	Australian Vanadium	Development	Measured	11.3	1.14	239Mt @ 0.73% (Mixed cutoffs!)	1.40	ASX announcement dated 6/4/2022 Bankable Feasibility Study for the Australian Vanadium Project. 73.6Mt of the Indicated and 88.5Mt of the Inferred tonnes use 0.40% V ₂ O ₅ cutoff. All other tonnages (95.6Mt) are at 0.70% V ₂ O ₅ cutoff.
				Indicated	82.4	0.70			
				Inferred	145.3	0.71			
Bushveld	LSE:BMN	Vametco	Production	Indicated	140.1	0.74	183Mt @ 0.78% (Cutoff = 20% magnetite)	1.98	Vametco Inferred & Indicated Mineral Resource and Ore Reserve Update for Annual Reporting purposes, 30/3/2022 bushveldminerals.com/wp-content/uploads/2022/04/J4590-Vametco-Mineral-Resources-and-Ore-Reserves-31-December-2021-Dated-30-Mar-2022.pdf
				Inferred	42.6	0.90			
Technology Metals	ASX:TMT	Murchison Technology Metals	Development	Measured	12.1	1.00	154Mt @ 0.85% (Cutoff V ₂ O ₅ = 0.40%)	1.40	ASX announcement dated 23/11/2022 RIU Resurgence Conference 23 November 2022
				Indicated	51.2	0.90			
				Inferred	90.5	0.80			
Largo Resources	NASDAQ:LGO TSX:LGO	Maracas	Production	Measured	45.95	0.83	79Mt @ 0.78% (Cutoff V ₂ O ₅ = 0.30%)	2.45	43-101Technical Report dated 10/10/2021 s29.q4cdn.com/562286712/files/doc_downloads/technical_report/marac%C3%A1s_menchen_mine/TR_GE21_Largo_43101_16122021_Final-Version-Conformed-for-Filing.pdf
				Indicated	17.73	0.70			
				Inferred	15.52	0.74			
Bushveld	LSE:BMN	Brits	Exploration	Indicated	44.9	0.56	66.8Mt @ 0.56% (Cutoff = 20% magnetite)	1.58	Competent Persons Report on the Brits Vanadium Project North West 30/1/2020 bushveldminerals.com/wp-content/uploads/2020/01/Independent-CPR_Brits-Vanadium_January_2020_Final.pdf
				Inferred	22.0	0.55			
Glencore	LSE:GLEN JSE:GLN	Rhovan	Production	Measured	51.7	0.47	176Mt @ 0.49% (Cutoff = 15% magnetite)		Glencore 2021 Reserves & Resources report at 31/12/2021 glencore.com/.rest/api/v1/documents/fb0cafaa3ec10b90571130be41ba4270/2021-GLEN_Resources-and-Reserves-report.pdf
				Indicated	33.5	0.50			
				Inferred	91.0	0.51			