

COMPANY PRESENTATION

Richmond Vanadium Technology Limited (ASX:**RVT**) is pleased to be exhibiting at the World Mining Congress in Brisbane from 26 – 29 June 2023.

A copy of the company presentation for the conference is attached.

This announcement has been authorised by the Board of Directors of RVT.

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About Richmond Vanadium Technology

Richmond Vanadium Technology Limited (**RVT**) is an Australian minerals company currently advancing its 100% owned Richmond – Julia Creek Vanadium Project (the Project) in North Queensland. RVT has adopted the globally recognised World Economic Forum (**WEF**) Environmental, Social and Governance (**ESG**) framework.

The 1.8Bt Richmond – Julia Creek Vanadium Project has a completed Pre-Feasibility Study demonstrating a technically viable and financially attractive development project. The Project has a completed process flowsheet using conventional techniques with a provisional patent application lodged with IP Australia covering the method for the concentration of vanadium.

RVT is completing a Bankable Feasibility Study and progressing approvals for the Project. RVT's ESG metrics and sustainability will be incorporated into its Bankable Feasibility study at every stage from inception to mine decommissioning, and throughout the supply chain to better enable the Company to balance the benefits to the planet, people and profit successfully. DRA Global has been appointed engineering services consultant for the completion of the BFS. DRA has an extensive track record spanning almost four decades across a wide range of commodities and has delivered more than 8,000 projects, studies and managed services solutions.

Situated between the towns of Julia Creek and Richmond in Queensland, the Project is 500km west of Townsville and 400km east of Mt Isa along the Flinders Highway and Great Northern railway linked to Townsville Port, and close to existing infrastructure including gas pipeline and HV network line.

The Queensland Government declared the Richmond – Julia Creek Vanadium Project to be a Coordinated Project in May 2022, making it the first critical minerals project to be awarded this status.

The Company's Mineral Resource comprises three main prospects - Lilyvale, Manfred and Rothbury, across 5 tenements. Following resource definition drilling on the Lilyvale deposit in Q3 2019, RVT conducted a Mineral Resource update (compliant with the JORC 2012 code) and a maiden Ore Reserve¹.

Richmond – Julia Creek Project Mineral Resource and contained metal

| 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.

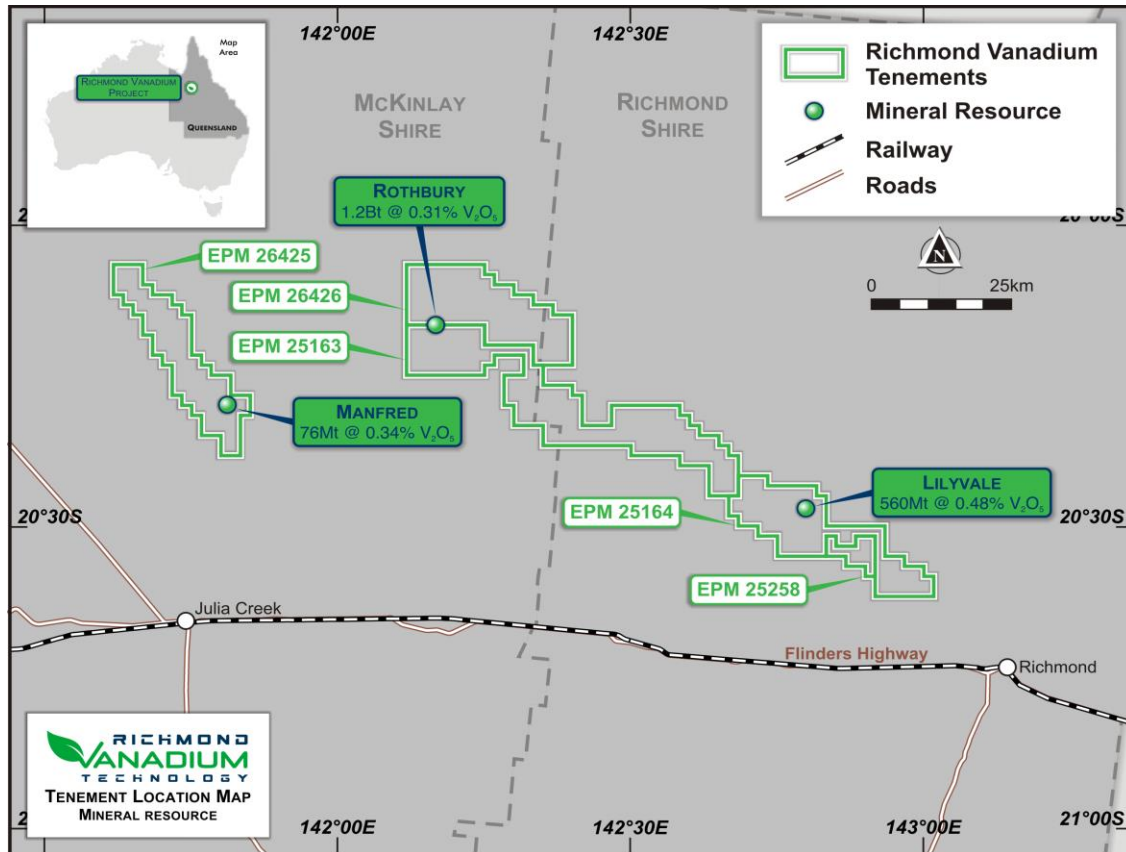
Metal contents calculated using grades with 3 decimal places.

Metal Content varies from Mineral Resource Update by HGS (IRC:ASX "Intermin announces world-class Vanadium Resource", 20 March 2018, due to arithmetic errors. The table above reflects the correct results for Manfred

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



Richmond – Julia Creek Tenement Location Map



JORC Compliance Statement

The information in this announcement that relates to Minerals Resources and Ore Reserves referable to Richmond Vanadium Technology is extracted from the reports titled 'Prospectus' dated 14 October 2022 (which includes an Independent Technical Assessment Report at Schedule 1) and 'Supplementary Prospectus' dated 21 October 2022 released to the ASX on 9 December 2022 and available to view at richmondvanadium.com.au and for which Competent Persons' consents were obtained (together, the **Original Reports**).

Richmond Vanadium Technology confirms that it is not aware of any new information or data that materially affects the information included in the Original Reports and that all material assumptions and technical parameters underpinning the Mineral Resources and Ore reserves estimates in the Original Reports continue to apply and have not materially changed.

Richmond Vanadium Technology confirms that the form and context in which the Competent Person's findings are presented have not been materially modified from the Original Reports and that each Competent Person's consent remains in place for subsequent releases by Richmond Vanadium Technology of the same information in the same form and context, until the consent is withdrawn or replaced by a subsequent report and accompanying consent.



POWERING THE FUTURE



ASX : RVT

WORLD MINING CONGRESS



JUNE 2023

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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 holds an Environmental Science Degree from Griffith University in Brisbane, postgraduate qualifications in Extractive Metallurgy and a Masters in Mineral Economics from the Western Australian School of Mines.

He has over 30 years' experience in precious and critical minerals from exploration, development, plant construction, operations and corporate. Jon has held senior management and executive positions with small and multi-national companies including Goldfields Ltd, Phoenix Gold and Horizon Minerals.

He is a member of the AusIMM and AICD and served 6 years as Board member and Chair of the Goldfields-Esperance Development Commission promoting regional economic growth.



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

INDEPENDENT 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

\$19.7m

Cash
(as at 30/03/2023)

\$88.73m

Market Cap
(as at 22/6/2023)

221.8m

Shares
on Issue

13.3m

Options
on Issue¹

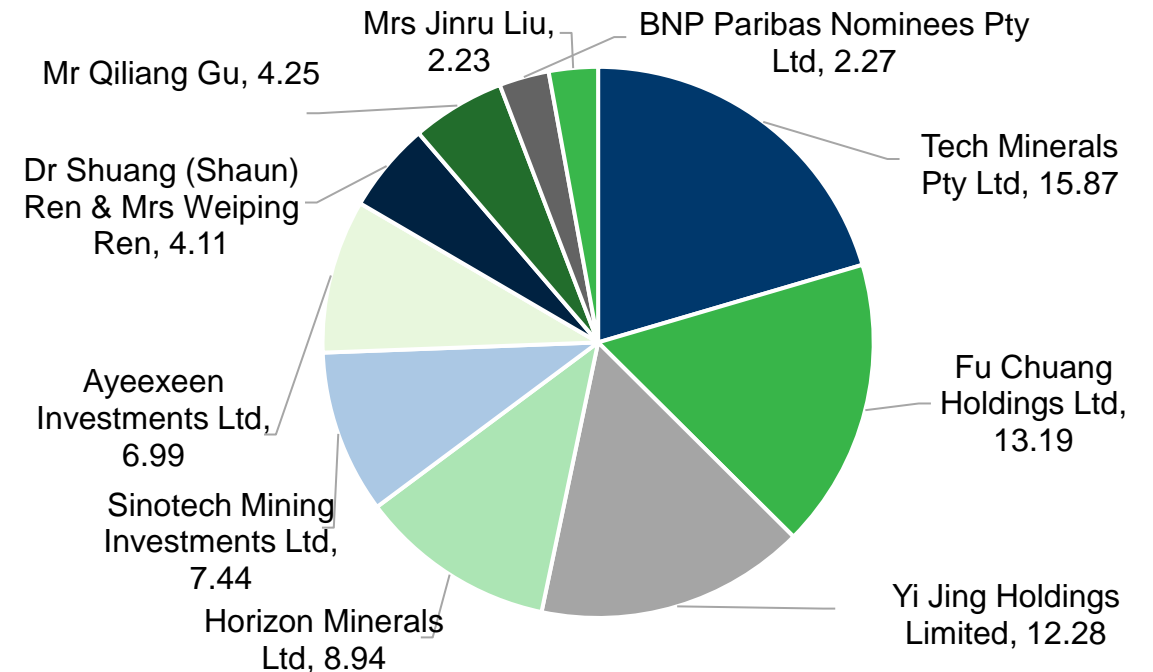
2.3m

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 |
| Peter Hedley | Project Director (BFS) |
| 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



Located in Qld with access to infrastructure and government support

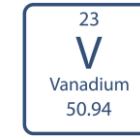
Close to existing infrastructure including gas pipeline, HV network line, major highway and railway linked to Townsville Port



Promising long-term outlook for Vanadium

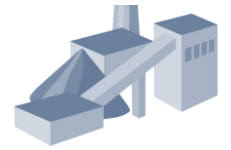
Vanadium to play pivotal role in commercialisation of renewable energy

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



Critical Mineral – attracts funding

Queensland Govt constructing a critical minerals facility to process vanadium, and building a 1,100km high voltage powerline through North West Minerals Province



Tested metallurgy, proven technology

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

Completed process flowsheet, provisional patent application lodged



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



Lower carbon footprint compared to titanomagnetite projects

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



Co-ordinated Project Status Awarded

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



BFS & EIS Underway

Well-respected engineering consultant DRA Global appointed as Bankable Feasibility Study consultant

BFS to run in parallel with Environmental Impact Statement (EIS) until Q4 2024

ENVIRONMENTAL, SOCIAL & GOVERNANCE (ESG)

INTEGRATED ESG STRATEGY WITH THE ADOPTION OF GLOBALLY RECOGNISED WORLD ECONOMIC FORUM ESG FRAMEWORK – FIRST REPORT EXPECTED BY Q4 2023

ENVIRONMENT

- RVT has engaged technology platform Socialsuite and will utilise its ESG measurement and reporting software platform, which is currently being used by over 165 organisations worldwide including publicly traded companies across the ASX, NASDAQ, NYSE, TSX, and OTC Markets and not-for-profit organisations.
- Final EIS Terms of Reference released March 2023
- Epic Environmental commissioned to deliver Environmental Impact Statement (EIS) by Q4 2024
- Preliminary Environmental Assessment indicated no major environmental constraints to preclude project from proceeding
- Wet and dry season flora and fauna surveys conducted
- Project to be assessed under bilateral agreement between Queensland and Commonwealth governments providing pathway for approvals



SOCIAL

We serve as a catalyst for local economic development in Queensland through transparent and respectful engagement

- Use of local business, civil, accommodation, services and meals



GOVERNANCE

We value accountability, transparency, fairness and responsibility for the best interests of all stakeholders

- Best practice standards and corporate governance principles integrated
- First critical minerals project declared a Coordinated Project



WHY VANADIUM

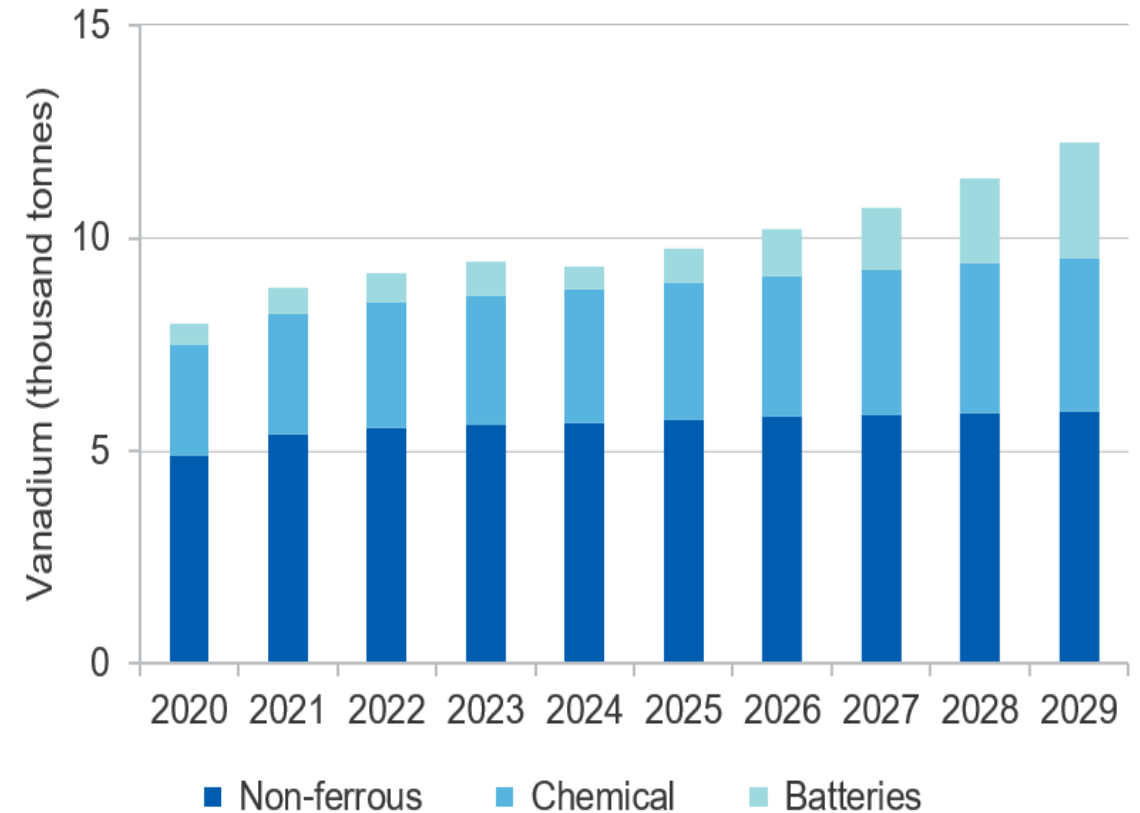
Critical Mineral

- Listed by the Australian and US Governments as “Critical Mineral”
- China, Russia and South Africa account for almost all worldwide production
- Australian resources 3rd largest in world, accounting for 18% of economic resources but current production levels are negligible¹

Demand / Supply

- Majority of vanadium produced as by-product of magnetite or uranium processing - limited supply of battery material
- >90% of global vanadium supply consumed by steel mills¹
- Promising long-term potential use in vanadium redox flow batteries (VRFBs) for grid-scale electricity applications
- Consumption for batteries forecast to grow on average 20.7% a year over 2020-2029¹

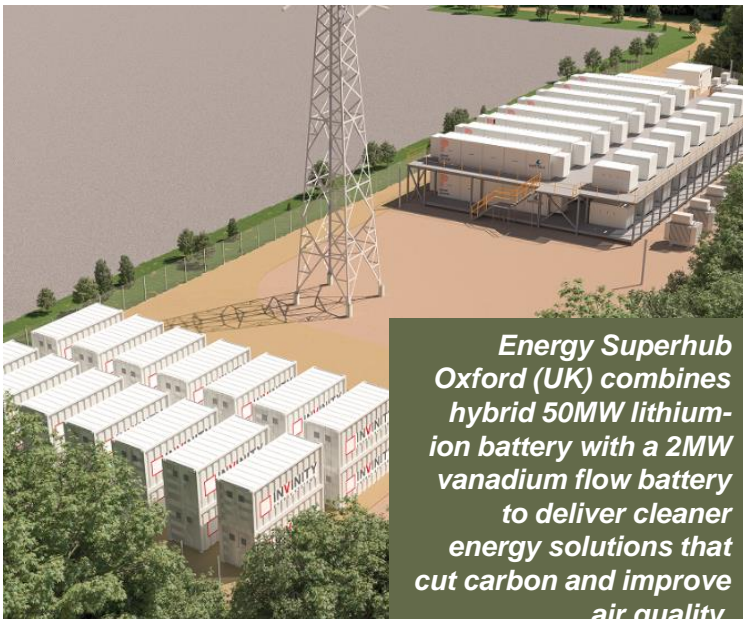
Projected vanadium consumption by end-use (excluding steel)¹



VANADIUM REDOX FLOW BATTERIES (VRFBs)



China builds world's largest lithium-free battery - an 800 MWh vanadium redox flow battery.



Energy Superhub Oxford (UK) combines hybrid 50MW lithium-ion battery with a 2MW vanadium flow battery to deliver cleaner energy solutions that cut carbon and improve air quality.

- Adoptable energy storage system ideal for residential and commercial applications
- Megawatt capacities for 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 stored energy¹
- VRFBs and lithium batteries can be complementary technologies. Lithium batteries typically discharge over 4-5 hours, whereas the discharge profile for VRFBs is often longer¹
- Electricity from renewable sources could provide 65% of world's electricity supply by 2030, potentially decarbonising 90% of power sector by 2050²

Ultra Power Systems has stand-alone power system at Second Fortune Gold Mine and will deploy to IGO's Silver Knight camp.

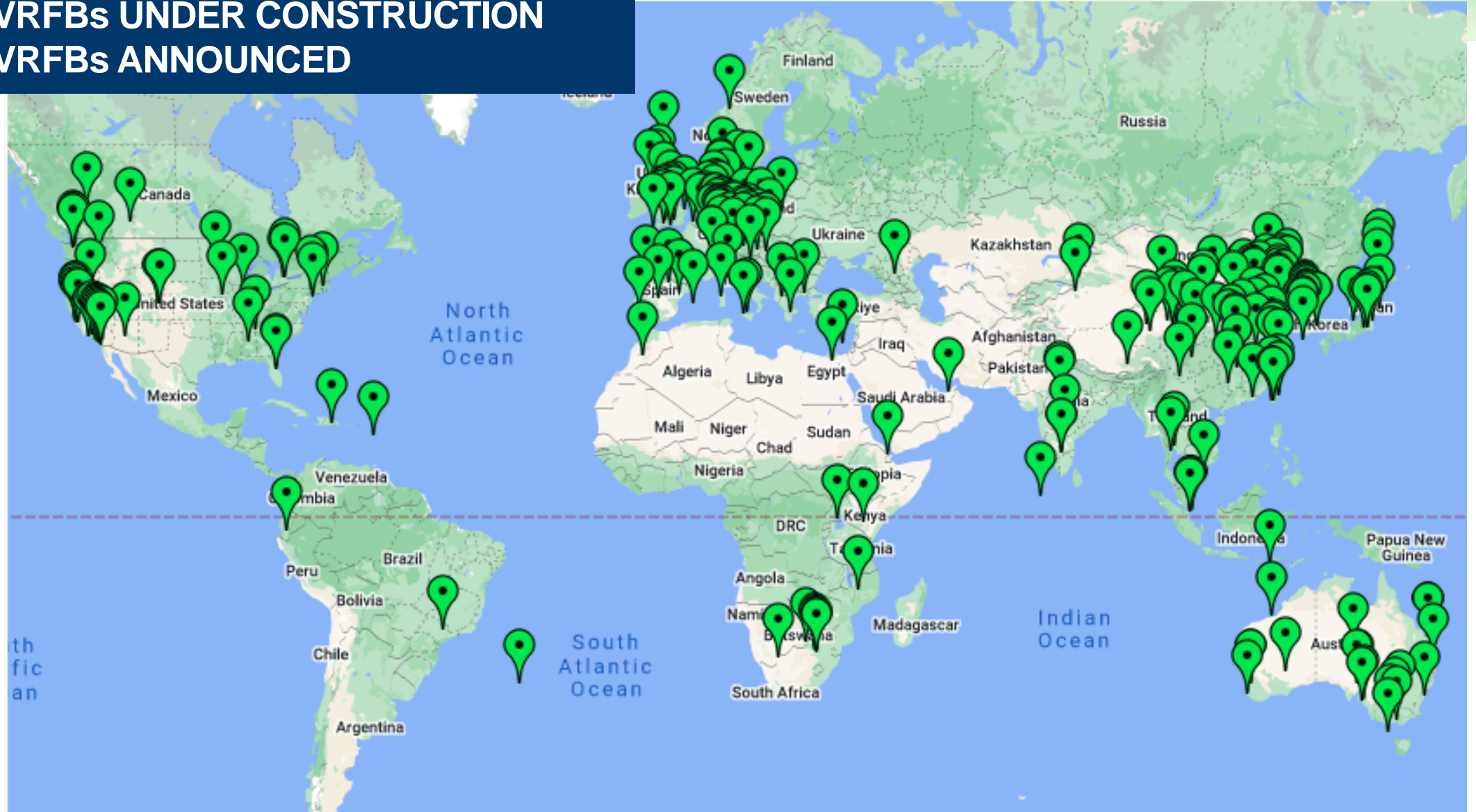


Plans unveiled for Australia's biggest vanadium flow battery and gigawatt factory. North Harbour Clean Energy backed by Aware Super and CellCube will build a 4MW, 16MWH VRFB for an industrial customer.

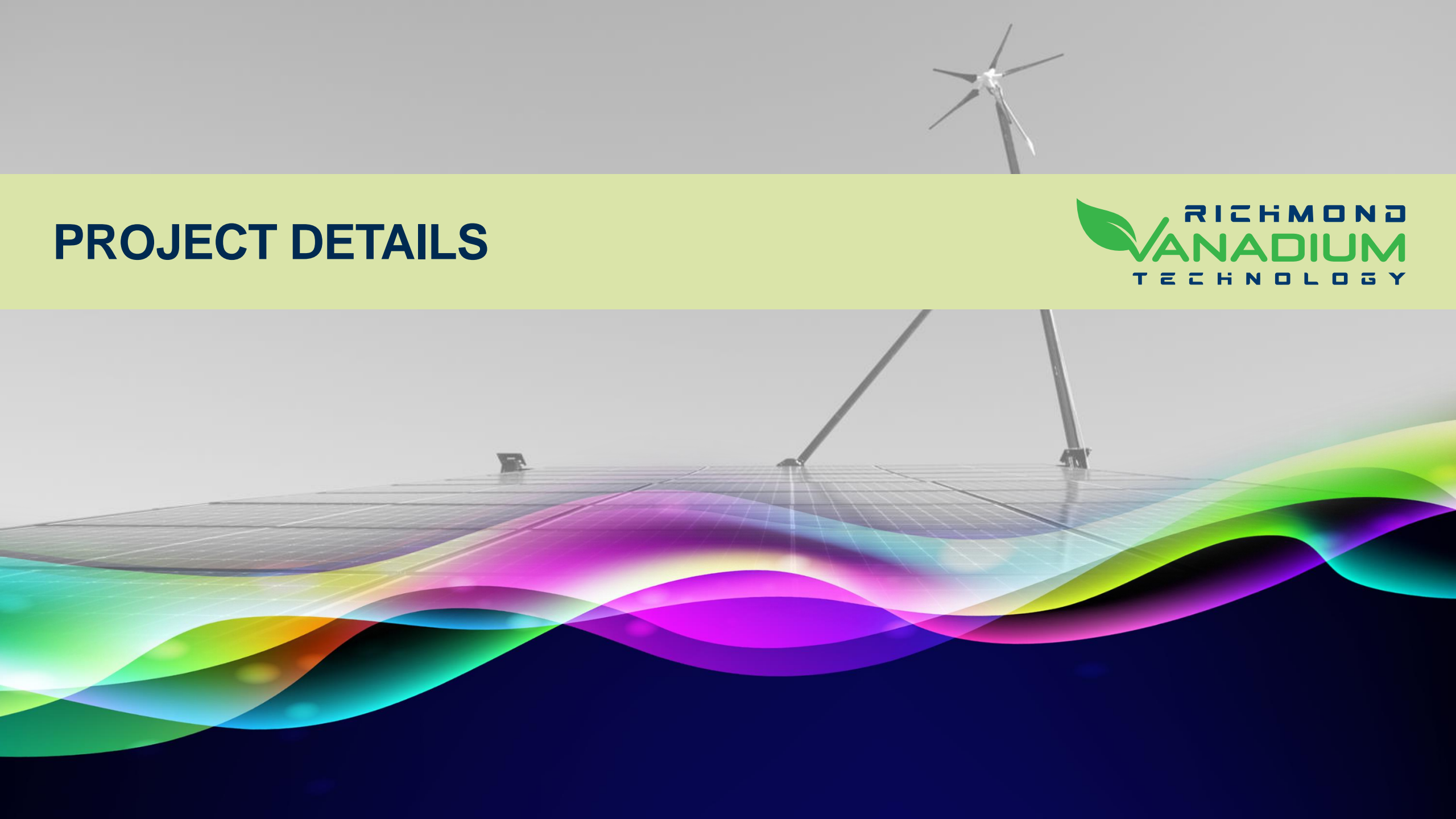
¹ Outlook for selected critical minerals in Australia 2021 Report, Dept of Industry, Science, Energy & Resources, Australian Government

² Renewable energy – powering a safer future, United Nations

200 VRFBs IN OPERATION
42 VRFBs UNDER CONSTRUCTION
49 VRFBs ANNOUNCED



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 link to Townsville Port
- Three main prospects – Lilyvale, Manfred and Rothbury covering ~1,400 km

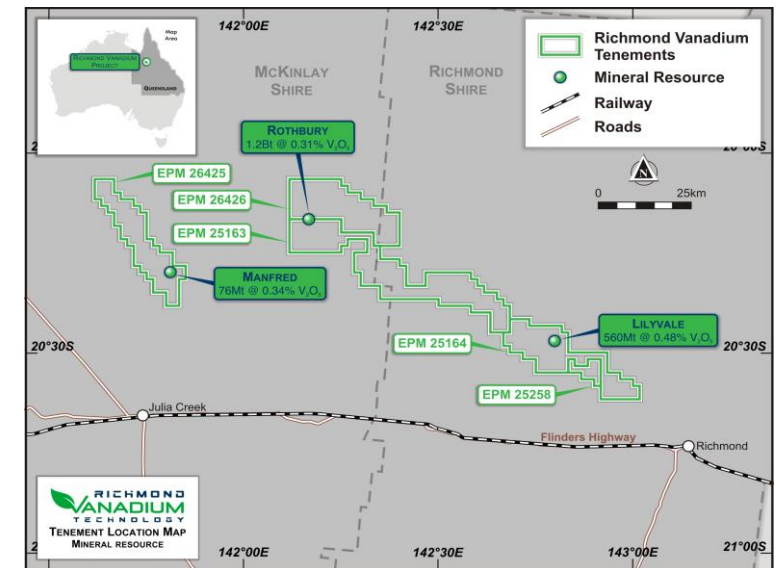
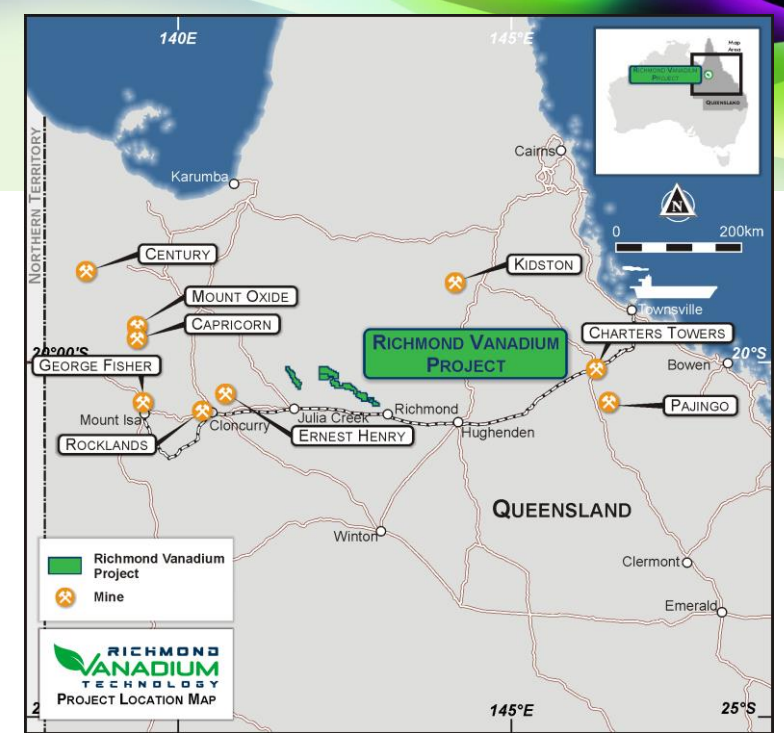
Mineral Resource & Ore Reserve

- Global Mineral Resource estimate of **1.8Bt @ 0.36% for 6.65Mt V₂O₅ at 0.30% cut-off¹**
- Maiden Ore Reserve for Lilyvale Deposit of **459.2Mt @ 0.49% for 2.25Mt V₂O₅¹**

Geology & Mineralisation

- One of the largest non-titanomagnetite vanadium deposits of its kind (soft marine sediments)
- 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, and Appendix 1 "Mineral Resource and Ore Reserve Estimates" attached to this presentation



EXPLORATION TO MINING LIFECYCLE

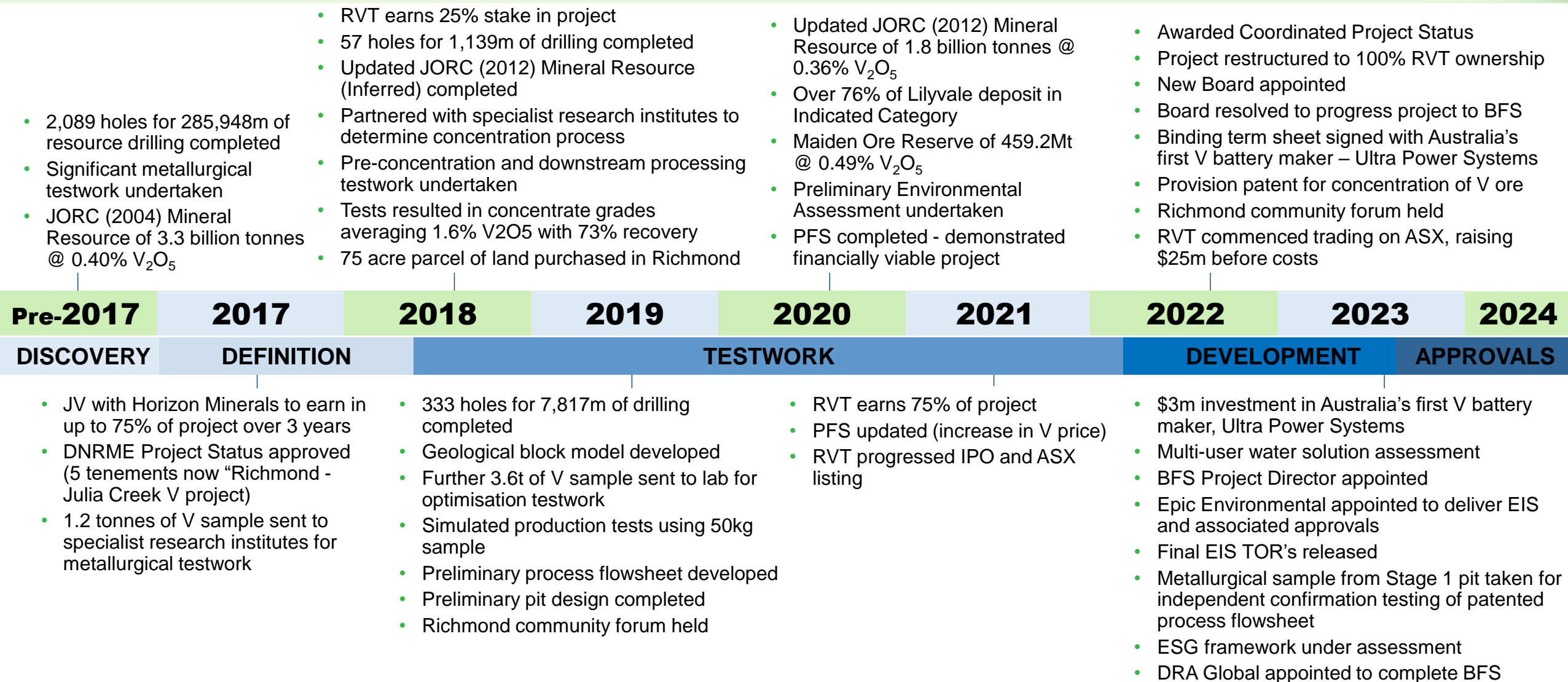
| | | |
|---|---|---|
| DISCOVERY | Find economical amount of a mineral through active exploration and understanding the characteristics of the land. | <ul style="list-style-type: none"> • 2,479 drillholes for 294,904m (RVT has drilled 333 holes for 8,956m)¹ |
| RESOURCE DEFINITION & EVALUATION | Mineral Resources are the concentration of material of economic interest; Ore Reserves are the parts of a Mineral Resource that can be economically mined. | <ul style="list-style-type: none"> • Cut-off grade of 0.30%² • Maiden ore reserve of 459.2Mt @ 0.49% for 2.25Mt V₂O₅² • 76% of Lilyvale deposit in Indicated Category² |
| METALLURGY / PROCESSING | Testwork is vital to determine process flowsheets, so extraction and processing can be achieved economically at commercial scale. | <ul style="list-style-type: none"> • 4.8 tonnes of material sent for testing • Industrial scale testwork on 50kg samples (per round) • Proven metallurgical solution via conventional processing² • Concentrate grades of 1.82% V₂O₅² • Provisional patent application lodged² |
| DEVELOPMENT | <p>During development the technical feasibility and economic viability of the project are determined.</p> <p>BFS must be prepared with enough accuracy so the company could submit it to investors or lenders when seeking financing.</p> | <ul style="list-style-type: none"> • PFS completed, financially strong project payback of <5 years (concentrating in Aust & recovering offshore), based on 25-year life² • BFS Project Director appointed • BFS commenced, completion by Q3 2024 • Investment in upstream VRFB manufacturer • DRA Global appointed as BFS engineering services consultant |
| APPROVALS | An EIS details the anticipated environmental impacts, as well as proposing avoidance, mitigation and offset measures. | <ul style="list-style-type: none"> • Awarded Coordinated Project Status • Final TOR for EIS released • EIS commenced, completion by Q4 2024 |
| PRODUCTION | Less than 1% of exploration projects typically progress to an established mine ³ | |

¹ Refer Prospectus dated 14 October 2022, ITAR Sect 5.1 released to ASX on 9 December 2022

² Refer Prospectus dated 14 October 2022 and Supplementary Prospectus dated 21 October 2022 released to ASX on 9 December 2022

³ Earth Resources, Understanding Minerals Exploration, Victoria State Government

A SYSTEMATIC, STEPPED APPROACH^{1,2}

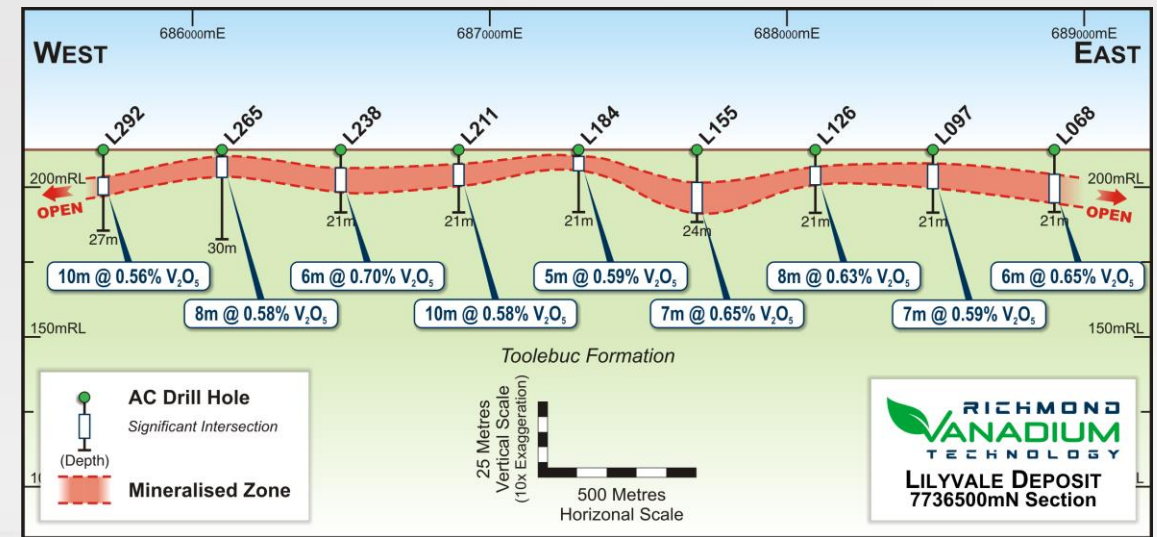


¹ Refer Prospectus dated 14 October 2022 and Supplementary Prospectus dated 21 October 2022 released to ASX on 9 December 2022

² Refer RVT ASX announcements; Terms of Reference for EIS released dated 11 Apr 2023, Epic appointed to deliver EIS dated 9 Mar 2023, Appointment of BFS Project Director dated 3 Mar 2023, RVT signs Subscription Agreement with Ultra Power Systems dated 28 Feb 2023, Draft Terms of Reference for EIS dated 19 Dec 2023, RVT commences trading on the ASX dated 13 Dec 2022

LILYVALE DEPOSIT

- 45km north-west of the Richmond township in close proximity to the Flinders Highway and Great Northern railway
- Mineral Resource of 560Mt @ 0.48% V_2O_5 ¹
- Mineralisation associated with the Toolebuc geological formation at an average depth of 2 - 25m below surface
- Starter pit to focus on upper mineralised zone:
 - highest grade based on drilling to date (0.52% V_2O_5)¹
 - free dig open cut mining with very low strip ratio (0.92)¹
 - amenable to low cost removal of coarse fraction 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

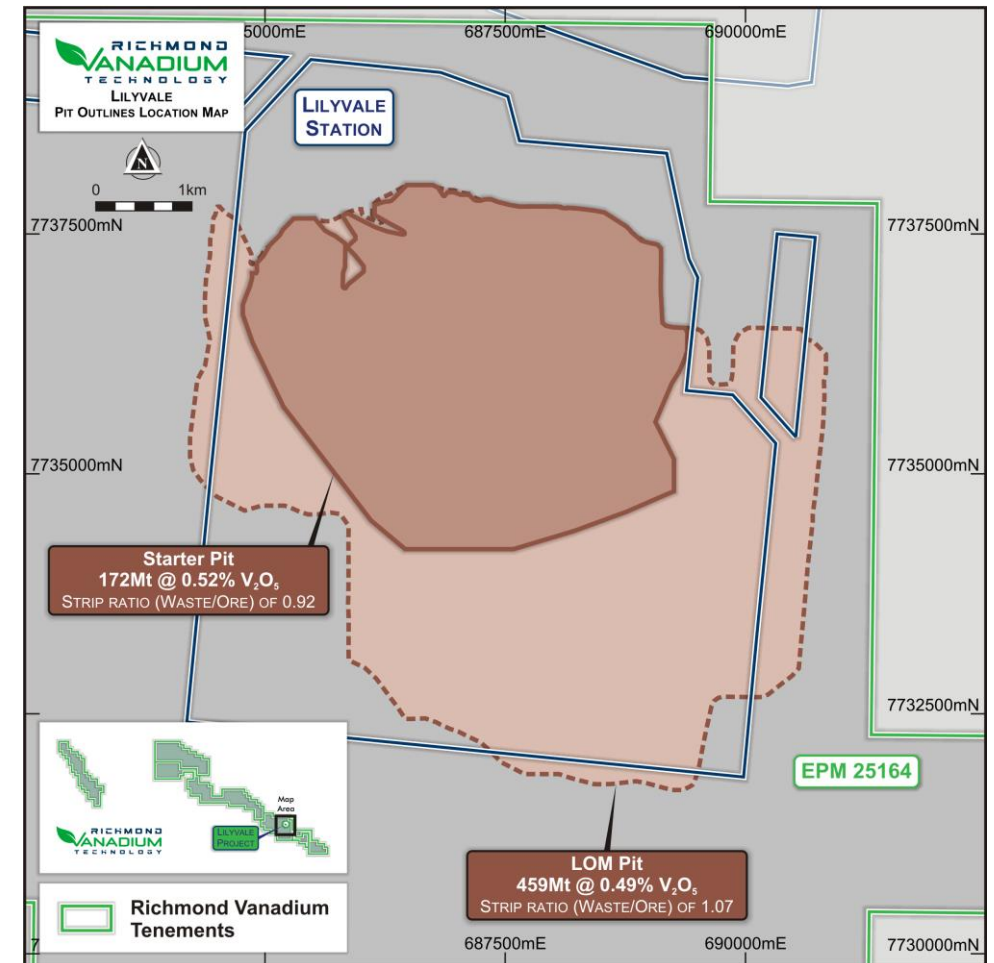
LILYVALE DEPOSIT ORE RESERVE¹

- Maiden open pit Ore Reserve at the Lilyvale Deposit of:
459.2Mt @ 0.49% for 2.25Mt V₂O₅
- Two pits designed over Lilyvale Deposit Indicated Mineral Resource:
 - LOM (Life of Mine) pit hosting Probable Reserves; and
 - Starter pit focussed on the higher grade part of LOM pit
- Both pits host Probable Reserves designed over Indicated Resources according to the 2012 JORC code
- 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%

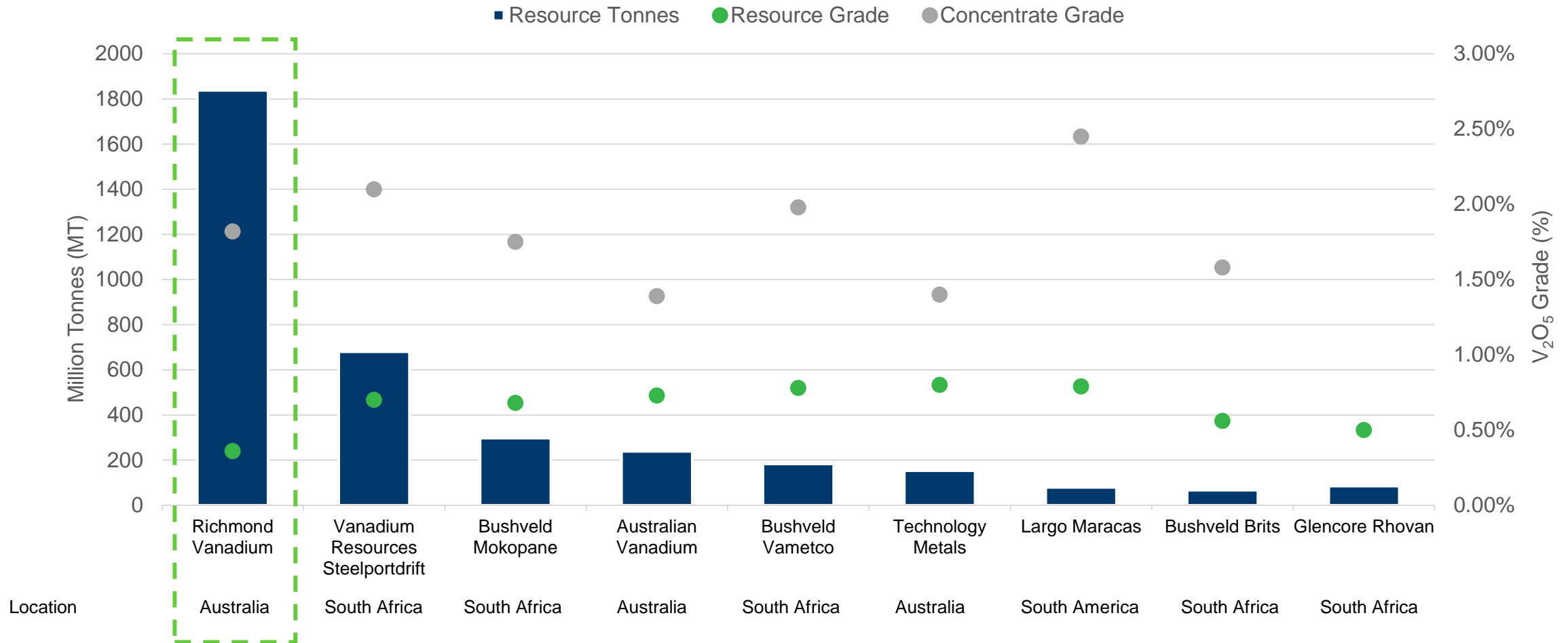
| Pit | Total Rock (MT) | Probable Ore (MT) | Strip Ratio (W/O) | Average V ₂ O ₅ grade for Probable Ore (%) |
|---------|-----------------|-------------------|-------------------|--|
| LOM | 951.7 | 459.2 | 1.07 | 0.49 |
| Starter | 331.7 | 172.5 | 0.92 | 0.52 |

Refer to Appendix “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

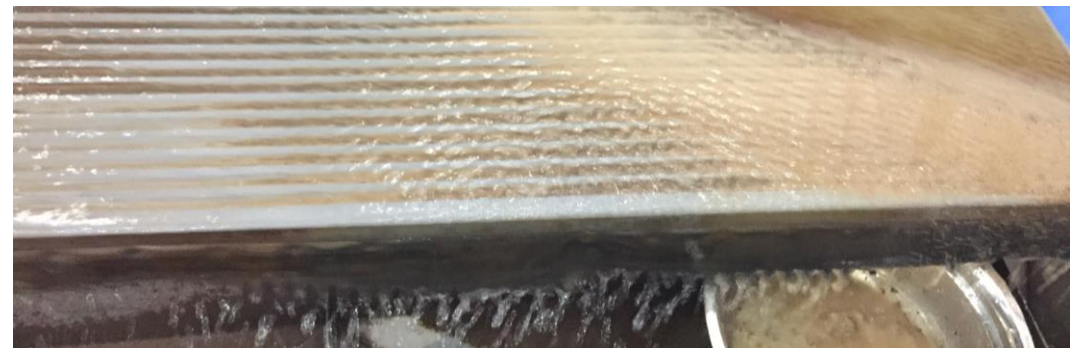
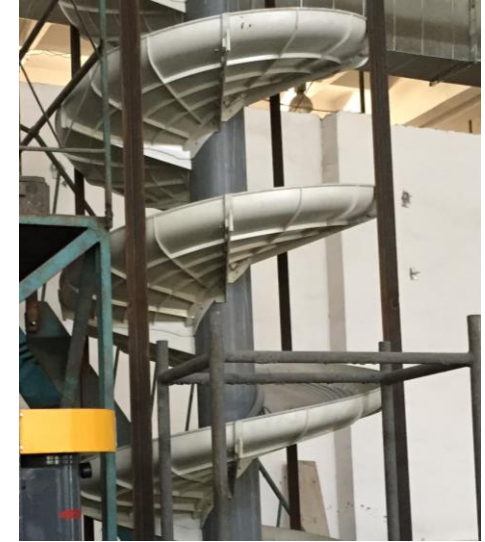
GLOBAL PRIMARY MINERAL RESOURCES



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 $>0.35\%$ are shown. All comparative data has been sourced from public company disclosures – please refer to Appendix 3 “Peer Comparison Table” attached to this presentation.

PROVEN METALLURGICAL RESULTS ¹

- Project is a large, low grade, high calcite content resource
- Process flowsheet uses proven conventional technology
- 1.2 tonnes of vanadium samples sent to two research institutes
- Testwork programs jointly developed, 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 recovery plant to produce 98% V_2O_5 flake for use in the energy storage and steel markets
- Concentrate produced reduced calcium carbonate grade significantly, enabling consideration of several downstream processing options
- 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

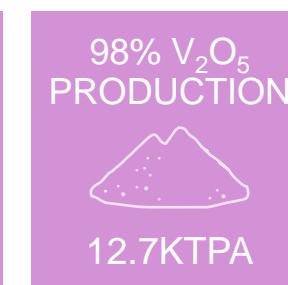
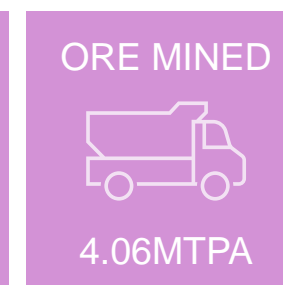
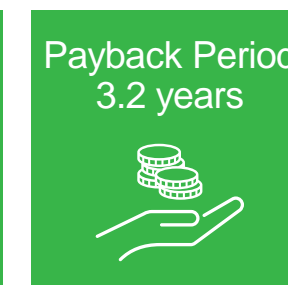
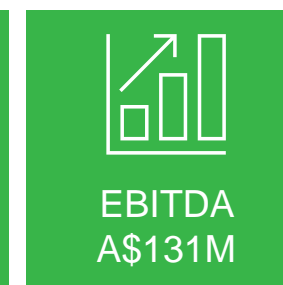
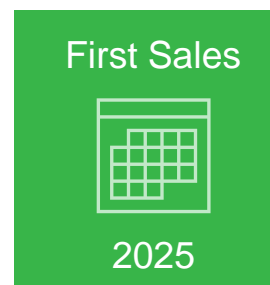
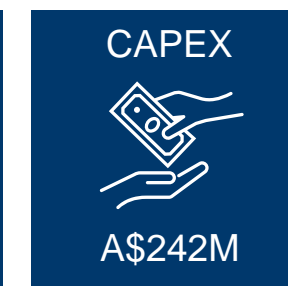
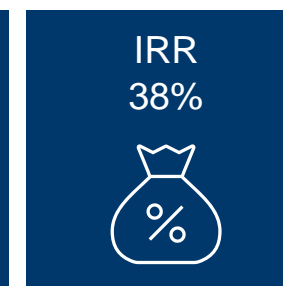


¹ Refer Prospectus dated 14 October 2022 and Supplementary Prospectus dated 21 October 2022 released to ASX on 9 December 2022



PRE-FEASIBILITY STUDY COMPLETED¹

- Project **presents opportunity to develop** and produce vanadium concentrate at 1.82%
- Mining and concentration options known while logistics and available infrastructure provide **a positive economic solution**
- Modest capital costs of **A\$242.2m** (US\$176.8m) to concentrate in Australia and recover overseas, and operating cash costs **of A\$8.66/lb** (US\$6.32/lb²) of 98% V₂O₅ flake²
- Independent Technical Assessment Report noted costs more susceptible to changes in 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 recovery plant option due to a changed government landscape, and look at further optimising process to reduce capital costs



QUEENSLAND GOVT COMMITTED TO ACCELERATE THE GROWTH OF THE CRITICAL MINERALS INDUSTRY

Building a \$75 million critical mineral demonstration facility in Townsville

Funding the \$5 billion CopperString 2.0 project, a 1,100 km, high voltage transmission line connecting the North West Minerals Province to the National Electricity Grid

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, and Appendix 2 "Summary of key PFS Outcomes" attached to this presentation

² AUD-USD FX rate (0.73)

BANKABLE FEASIBILITY STUDY COMMENCED

STATUS

| | |
|---|-----------|
| Draft Terms of Reference for Environmental Impact Statement (EIS) issued & responses received | Completed |
| Expressions of Interest for role of BFS lead contractor issued & responses received | Completed |
| Appointment of BFS Project Director | Completed |
| Final Terms of Reference for Environmental Impact Statement (EIS) issued | Completed |
| EIS and associated approvals process including appointment of subcontractors | Commenced |
| DRA Global appointed as engineering services consultant to deliver BFS | Completed |



Peter Hedley
appointed as
BFS Project Director

Qualified Chemical Engineer and highly experienced Project and Feasibility Study Manager, with over 40 years of experience in projects, study management, engineering and construction in the chemicals and minerals processing industries.

Peter was study manager for Australian Vanadium's (ASX: AVL) greenfields mine and processing plant to produce high purity vanadium pentoxide.



COMPARISON OF ESTIMATED PRODUCTION COST BREAKDOWN

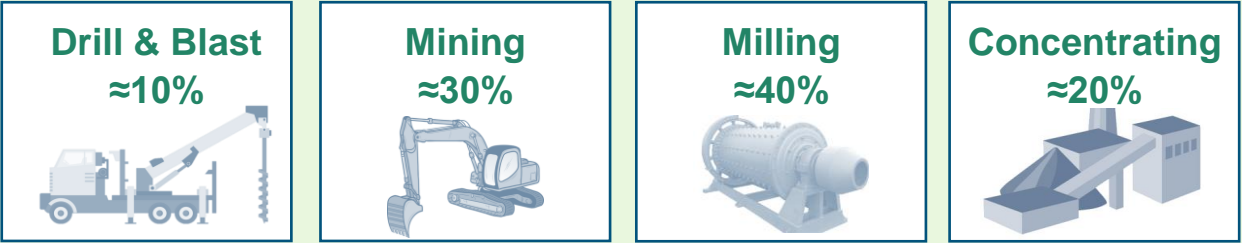
Soft Oxide vs Titanomagnetite Vanadium Deposits

Concentrating

Recovery

to minimum 98% to meet vanadium flake standard

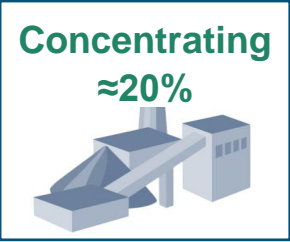
TITANOMAGNETITE VANADIUM DEPOSIT



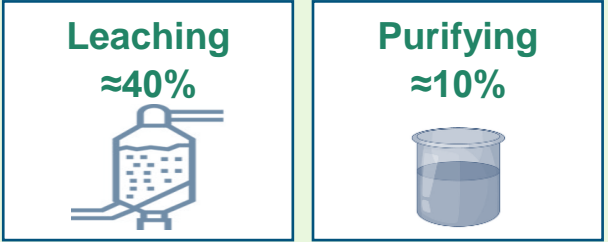
1.4 – 1.48%
vanadium concentrate



SOFT OXIDE VANADIUM DEPOSIT



1.83%
vanadium concentrate¹

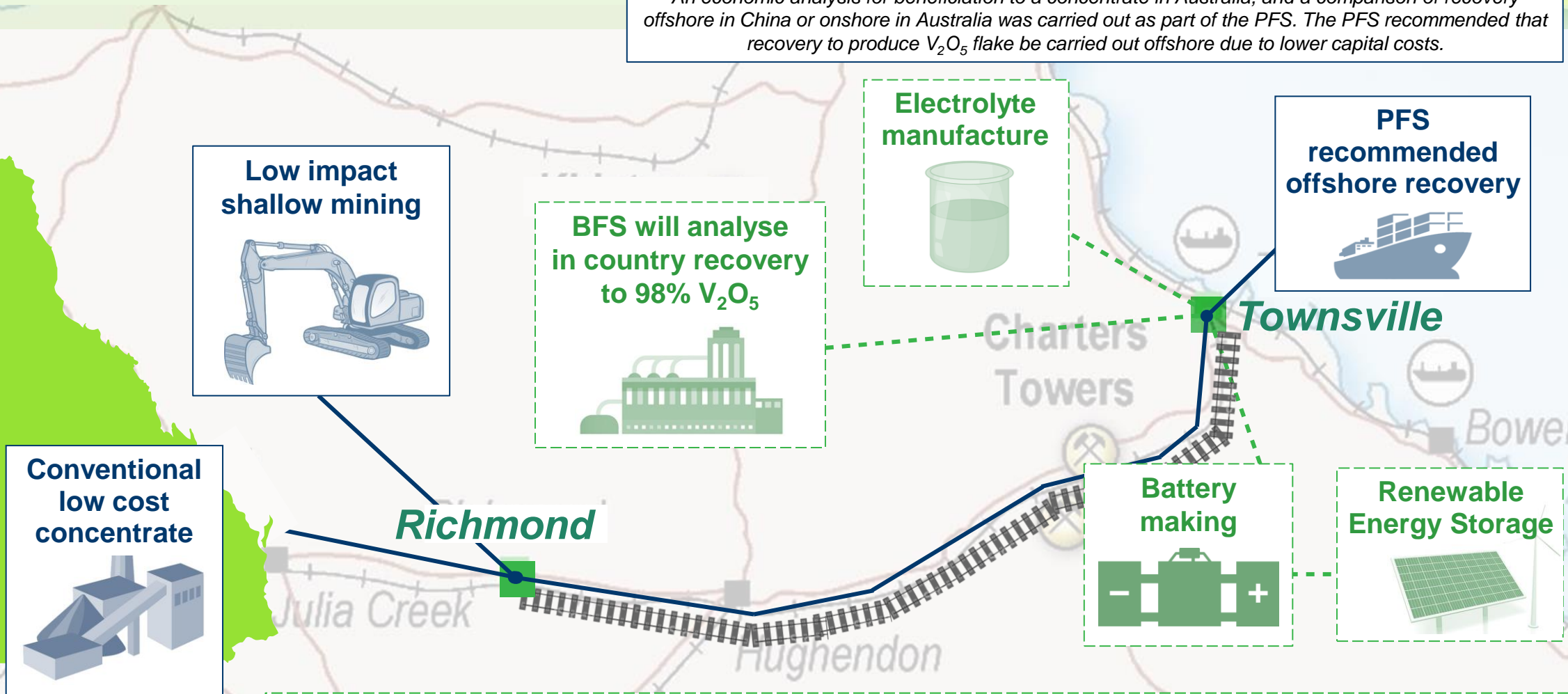


98.6%
vanadium flake¹

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 recovery offshore in China or onshore in Australia was carried out as part of the PFS. The PFS recommended that recovery to produce V_2O_5 flake be carried out offshore due to lower capital costs.



The BFS will undertake further analysis of downstream recovery to be conducted in Australia (Queensland) as the preferred option due primarily to a changed government landscape. It is noted that an Australian recovery 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, it 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 Ltd (refer ASX announcement dated 28/02/2023 "RVT signs formal Subscription Agreement with Ultra Power Systems").

INVESTMENT IN ULTRA POWER SYSTEMS (UPS)¹

RVT and UPS formed a joint alliance to grow vanadium redox flow battery manufacturing inclusive of an offtake arrangement

- Formal subscription agreement executed for RVT to invest \$3 million into UPS to acquire 10.94%
- UPS to become primary RVT offtake partner with the purchase of vanadium pentoxide flake from RVT – subject to availability and timeliness of delivery, quality and price
- RVT MD, Shaun Ren, appointed to the UPS board

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.

UPS = AUSTRALIA'S FIRST VANADIUM BATTERY MANUFACTURER



PROJECT IMPACT

29% of Australia's electricity generation came from renewables, and 51% from coal in 2021¹

Renewable energy has the potential to reduce energy costs, improve health (by reducing air pollution) and reduce greenhouse gas emissions²

Australia recorded a 31% growth in solar generation in 2021¹

Increasing reliance on renewable energy requires large scale battery energy storage systems

~10,000 tonnes of vanadium pentoxide (V₂O₅) is required for each GWh of VRFB energy storage³

RVT to produce 12,701 tonnes vanadium pentoxide (V₂O₅) per annum⁴

RVT annual production equivalent to energy storage of ~95,000 Tesla Power Walls⁵

¹ www.energy.gov.au, Australian Energy Statistics by state and territory

² Australian Government, Your Home, Renewable Energy <https://www.yourhome.gov.au/energy/renewable-energy>

³ Refer Largo Physical Vanadium Corp (TSXV:VAND), Presentation, February 2023

⁴ Refer RVT Prospectus dated 14 October 2022 and Supplementary Prospectus dated 21 October 2022 released to ASX on 9 December 2022

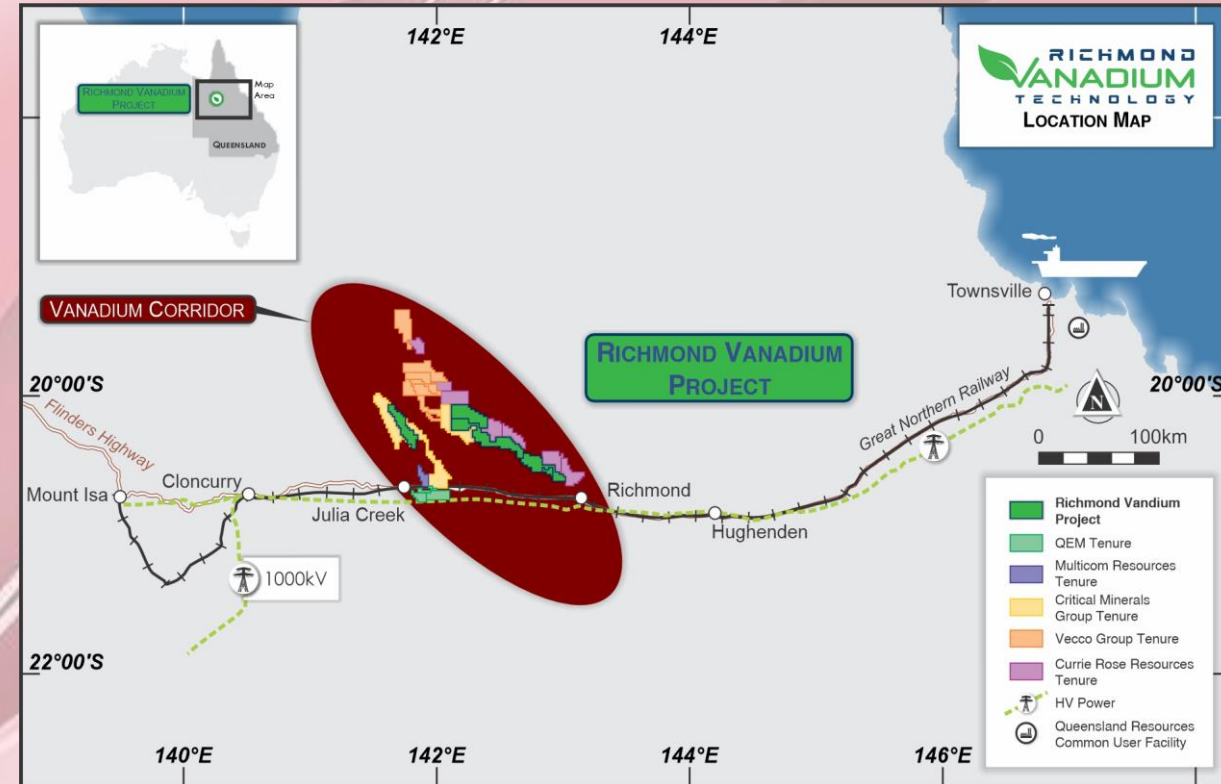
⁵ Calculated using Tesla Powerwall 2 average usable energy of 13.5 kWh (Powerwall Datasheet Performance Specifications); RVT annual production of 12,701 tonnes equivalent to 1.27 GWh



QUEENSLAND – A KEY CRITICAL MINERAL DESTINATION

QUEENSLAND GOVERNMENT PROVIDING VALUABLE SUPPORT FOR LOCAL VANADIUM PROJECTS

- ✓ Queensland is a key player in critical minerals investment and a destination of choice for mining and manufacturing opportunities
- ✓ Critical minerals will assist Queensland's energy system transformation to deliver clean, reliable and affordable energy
- ✓ Queensland has world-class, highly economic deposits of vanadium
- ✓ Queensland Government supporting industry by:
 - Building a \$75 million critical mineral demonstration facility in Townsville
 - Funding the \$5 billion CopperString 2.0 project, a 1,100 km, high voltage transmission line connecting the North West Minerals Province to the National Electricity Grid
 - Developing the Queensland Battery Industry Strategy to deliver investment of up to \$100 million in an Australian-Made Battery Precinct in Queensland



“Queensland Government is strongly supportive of the development of vanadium mining, processing and manufacturing in Queensland”

Honourable Scott Stewart MP, Minister for Resources

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

 www.richmondvanadium.com.au

 Richmond Vanadium Technology

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 **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 - SUMMARY OF KEY PFS OUTCOMES¹

| Measure | PFS outcome US\$9.60/lb V ₂ O ₅ (Study Price) |
|---|---|
| Life of Mine (LOM) | |
| Total pit volume (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)



APPENDIX 3 – 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 | Steelportdrift | 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 | 43-101 Technical Report dated 10/10/2021 s29.q4cdn.com/562286712/files/doc_downloads/technical_report/marac%C3%A1s_menc hen_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) | |
| Vanadium Resources | ASX:VR8 | Steelportdrift | 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 | 43-101 Technical Report dated 10/10/2021 s29.q4cdn.com/562286712/files/doc_downloads/technical_report/marac%C3%A1s_menc hen_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 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

