



## Brisbane Mining Conference Presentation

Critical Minerals Group Limited (**ASX:CMG**, **Critical Minerals Group**, **CMG** or the **Company**) is pleased to advise that the Company's CEO and Managing Director, Scott Drelincourt, will present the Company's developments, drilling results, the potential for dual commodity deposit and outlook for H1 2023 at the Brisbane Mining Conference today as follows:

**Date:** 22<sup>nd</sup> March 2023

**Time:** 4:30pm AEST

**Link:** [Program | Brisbane Mining \(brisbaneminingconference.com.au\)](https://brisbaneminingconference.com.au)

The Company's presentation is provided with this announcement.

This announcement was approved by the board.

### For more information:

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# CRITICAL MINERALS GROUP

I N V E S T O R  
P R E S E N T A T I O N

MARCH 2023



# Disclaimer

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## **No Recommendation**

The information in this presentation is not a recommendation to acquire shares and does not constitute financial advice. Any person who intends to acquire shares must conduct their own investigations, assessment and analysis of CMG and its operations and prospects and must base their investment decision solely on those investigations and that assessment and analysis. Prospective investors should consult their own legal, accounting and financial advisers about an investment in CMG.

## **Competent Persons Statement**

The information in this presentation that relates to the exploration results, exploration targets and mineral resources at the Lindfield Project (EPM 27872), Figtree Creek Project (EPM 27998) and Lorena Surrounds Project (EPM 27999) was first reported by CMG in its prospectus dated 25 May 2022 (**Prospectus**) and CMG's ASX announcements dated 22 February 2023 and 13 March 2023. CMG confirms that it is not aware of any new information or data that materially affects the information included in the Prospectus and CMG's ASX announcements dated 22 February 2023 and 13 March 2023, and that all material assumptions and technical parameters underpinning the exploration results, exploration targets and mineral resources in the Prospectus continue to apply and have not materially changed.

The information in this presentation that relates to the

exploration results, exploration targets and mineral resources at the Whinmoor Project (EPM 28631), Lara Downs Project (EPM 28635 application) and Lindfield North Project (EPM 28636 application) was first reported by CMG in its announcements dated 19 October 2022 and 1 February 2023. CMG confirms that it is not aware of any new information or data that materially affects the information included in the announcements date 19 October 2022 and 1 February 2023, and that all material assumptions and technical parameters underpinning the exploration results, exploration targets and mineral resources in the announcement continue to apply and have not materially changed.

## **Announcements**

This presentation should also be read in conjunction with CMG's Prospectus, the CMG Annual Report for 2022 and the CMG September 2022 and December 2022 Quarterly Activities Report, together with any announcement made by CMG in accordance with its continuous disclosure obligations including but not limited to the following ASX releases:

- 27 September 2022 – CMG – Commencement of Trading
- 12 October 2022 – Commencement of Drilling at Lindfield Vanadium Project
- 19 October 2022 – New Tenement Applications
- 27 October 2022 – Company Presentation – October 2022
- 28 October 2022 – Figtree Creek and Lorena Surrounds Tenements Granted
- 2 November 2022 – Completion of drilling at Lindfield Vanadium Project
- 1 February 2023 – Operations Update
- 22 February 2023 – Initial Assay Results
- 13 March 2023 – Final Assay Results.



**We're meeting the growing demand  
for minerals critical to ensuring a  
carbon neutral future.**

Our ESG Vision

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# Corporate Snapshot

## Vanadium Development in a premium jurisdiction

Total Shares on Issue	44.08M
Options (@ \$0.25)	8.36M
Cash (As reported in quarterly)	\$3.7M
Market Capitalisation (undiluted)	\$8.16M
Share Price (21/03/2023)	\$0.185

### Major Shareholders

Top 20	79.7%
<b>Idemitsu Lindfield</b>	<b>32.22%</b>
Founders, Management & Board	27.9%



### Significant Shallow JORC resource<sup>1</sup>

210Mt @ 0.39% V<sub>2</sub>O<sub>5</sub>  
Inferred JORC resource,  
from surface.



### Strong support by Idemitsu

Strategic Investor, AU\$70b  
annual revenue company  
has identified Vanadium as  
one of their transition  
commodities.



### Significant government incentives

Government policy  
creating investment  
tailwinds for critical  
minerals.



### Project development underway<sup>2</sup>

24 hole drill program  
completed end of 2022  
with metallurgical studies  
underway.

1. Refer to CMG's prospectus dated 25 May 2022 (Prospectus) and CMG's ASX announcements dated 22 February 2023 and 13 March 2023. The information in this presentation that relates to the mineral resource estimates and exploration results for CMG's Lindfield Project (EPM 27872) was first reported by CMG in its Prospectus and in ASX announcements dated 22 February 2023 and 13 March 2023. CMG confirms that it is not aware of any new information or data that materially affects the information included in the Prospectus or in ASX announcements dated 22 February 2023 and 13 March 2023, and in the case of estimates of mineral resources, that all material assumptions and technical parameters underpinning the estimates in the Prospectus continue to apply and have not materially changed.

2. Refer to CMG's ASX announcements dated 12 October 2022, 2 November 2022, 22 February 2023 and 13 March 2023.

# Board & Management



**Alan Broome. AM**  
Chairman

- Extensive Mining & Board experience
- NED of DDH1 (ASX: DDH)
- Emeritus Chairman of Austmine
- Chairman of Strategic Minerals Plc (AIM: SML.L)
- Advisory Council to the CSIRO's Mineral Resources Sector
- Chairman of New Age Exploration (ASX: NAE)
- Awarded the Order of Australia (AM) for services to mining



**Scott Drelincourt**  
Managing Director

- Geologist and Founding Director
- Director of the QRC
- Proven executive with 17 years industry experience
- 6 years experience working on Julia Creek Vanadium projects
- Extensive resources experience from Greenfields exploration and early stage development through to mining operations



**Art Malone**  
Non-Exec Director

- Senior Energy and Resources Executive.
- 15 years managing large scale projects in the resource sector.
- Director of CopperCorp Pty Ltd an unlisted Cloncurry Copper Gold exploration project.
- Managing Director of Peak Helium



**Steve Kovac**  
Non-Exec Director

- CEO of Idemitsu Australia
- Alternate Director at Low Emission Technology Australia (LETA)
- Extensive Mining & Executive experience
- MBA & GAICD



**Stuart McClure**  
Non-Exec Director

- 16 years finance & corporate advisory experience advising public and unlisted companies
- Executive Director Vested Equities
- Bachelor in Business, RG146, ADA1&2
- Australian Institute of Company Directors (AICD) fellow



# Vanadium Redox Flow Batteries

- VRFB's are poised to play a significant role as a large-scale, long-duration energy storage solution
- Superior life of approximately 30 years
- Can hold charge for long periods
- No flammable, explosion or toxicity risk, and batteries do not deteriorate
- Highly recyclable/reusable
- VRFB manufacturers are actively seeking supply unsuccessfully
- Largest VRFB located in Dalian China with 100MW/400MWH to be scaled up to 800MWH. Holds 9000 tonnes of V2O5

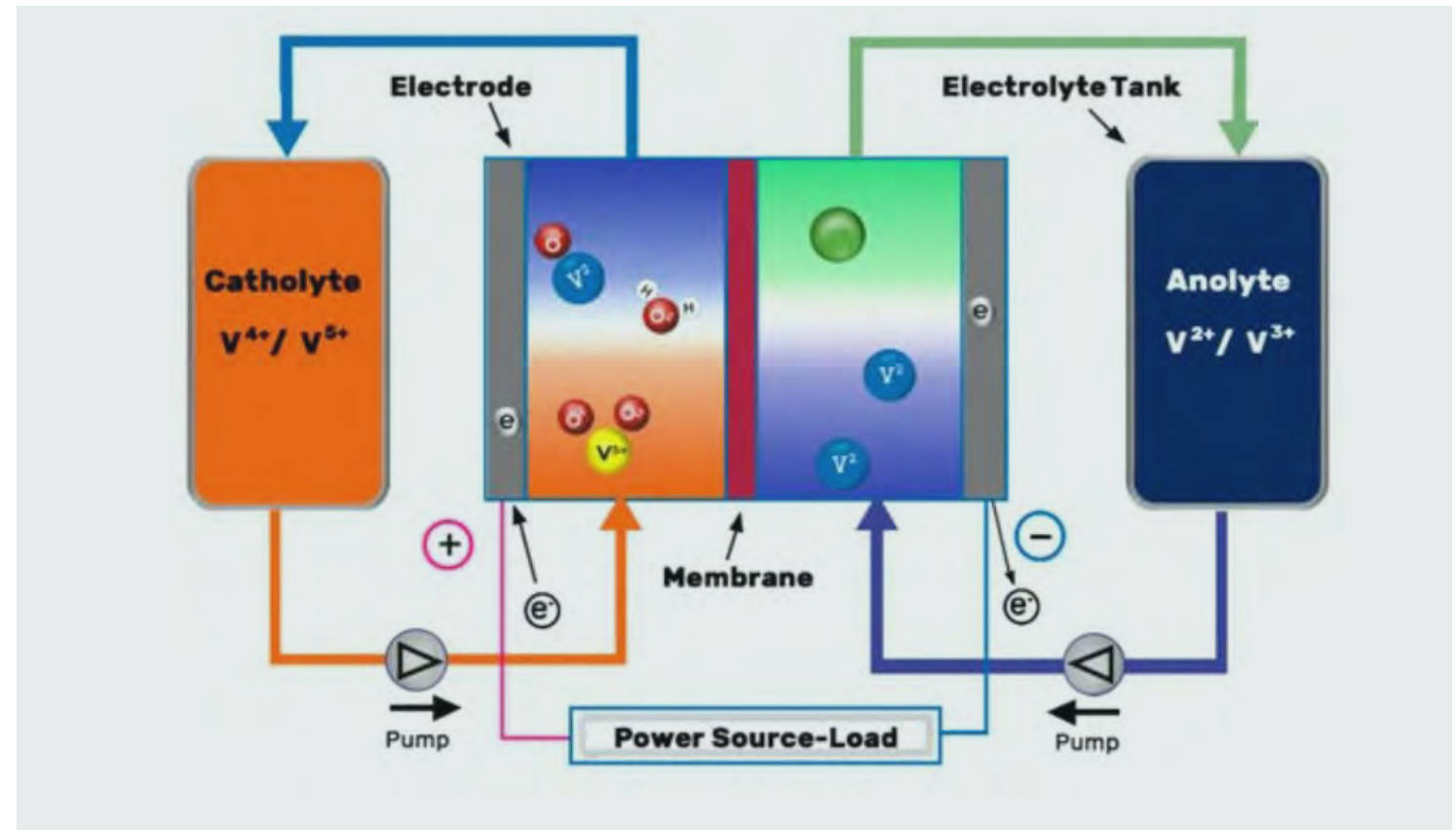
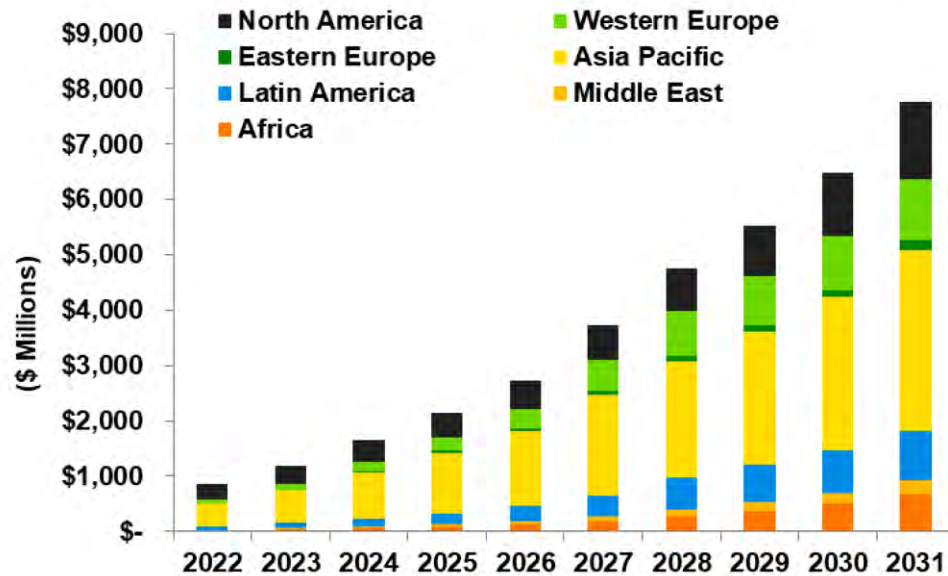


Figure 1: Schematic illustration of a VRFB. Source: Encyclopedia Journal (ISSN 2309-3366)

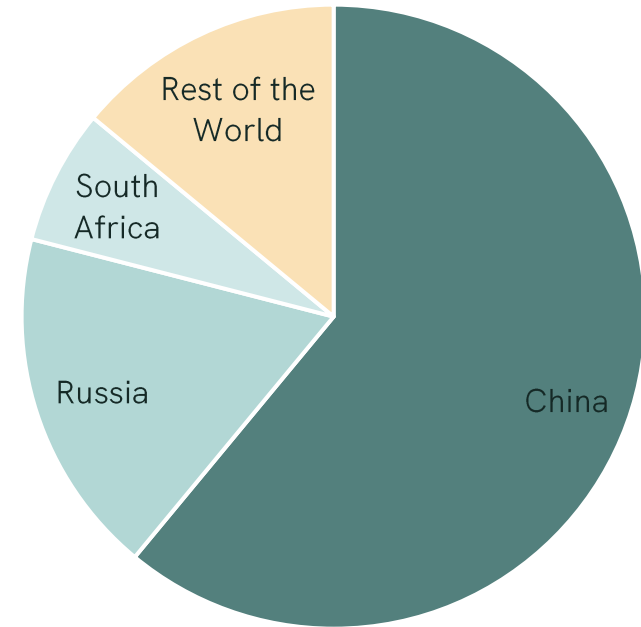
# Vanadium Supply & Demand

**Annual Installed VRFB Utility-Scale and Commercial and Industrial Deployment Revenue by Region, All Application Segments, World Markets: 2022-2031**



(Source: Guidehouse Insights)

**Vanadium Production**



- Vanadium consumption in batteries is forecast to grow at an average compound rate of 41% per year from 2022 to 2031.

- 85% of world mine production comes from China, Russia and South Africa

- Supply chain security

Source: Guidehouse Insights: White Paper Vanadium Redox Flow Batteries Identifying Market Opportunities and Enablers Published 2Q 2022  
Merchant Research & Consulting: Vanadium 20230 World Market Review and Forecast to 2032

Disclaimer: A recipient of this presentation must make their own assessment of the matters contained herein and rely on their own investigations and judgment.



# Lindfield Inferred JORC

## VANADIUM PROJECT<sup>1</sup>

The Lindfield Vanadium resource is our flagship project, ready to develop and meet the growing demand for this critical mineral.



### HPA Potential

Additional potential minerals; High Purity Aluminum. The recent drill program and test work has identified alumina as a potential addition to the deposit.



### Limited Contaminants

Limited contaminants (for batteries) such as titanium from hard rock deposits likely lowering processing costs.



### Shallow

Shallow resource starting at surface, down to a depth of approximately 35 meters.



### Inferred JORC

Inferred JORC resource of 210Mt with a grade of 0.39% V<sub>2</sub>O<sub>5</sub> from surface. The site has 68 drill holes within the tenement, with a resource upgrade underway.

<sup>1</sup> Refer to CMG's prospectus dated 25 May 2022 (Prospectus) and CMG's ASX announcements dated 22 February 2023 and 13 March 2023. The information in this presentation that relates to the mineral resource estimates and exploration results for CMG's Lindfield Project (EPM 27872) was first reported by CMG in its Prospectus and in ASX announcements dated 22 February 2023 and 13 March 2023. CMG confirms that it is not aware of any new information or data that materially affects the information included in the Prospectus or in ASX announcements dated 22 February 2023 and 13 March 2023, and in the case of estimates of mineral resources, that all material assumptions and technical parameters underpinning the estimates in the Prospectus continue to apply and have not materially changed.

# Location & Infrastructure

295km<sup>2</sup> tenement in the North West Mineral Province of Queensland located 30km from Julia Creek.

Surrounded by advanced vanadium projects including Multicom Resources' St Elmo Project (Mining Lease) and Richmond Vanadium Technology's Lilyvale Project.

## Power

Mains grid  
access for power

## Rail & Roads

Intersected by rail  
system and Flinders Hwy

## Water

Available  
surface water

## Port

Abbot Point terminal  
650km via road and rail

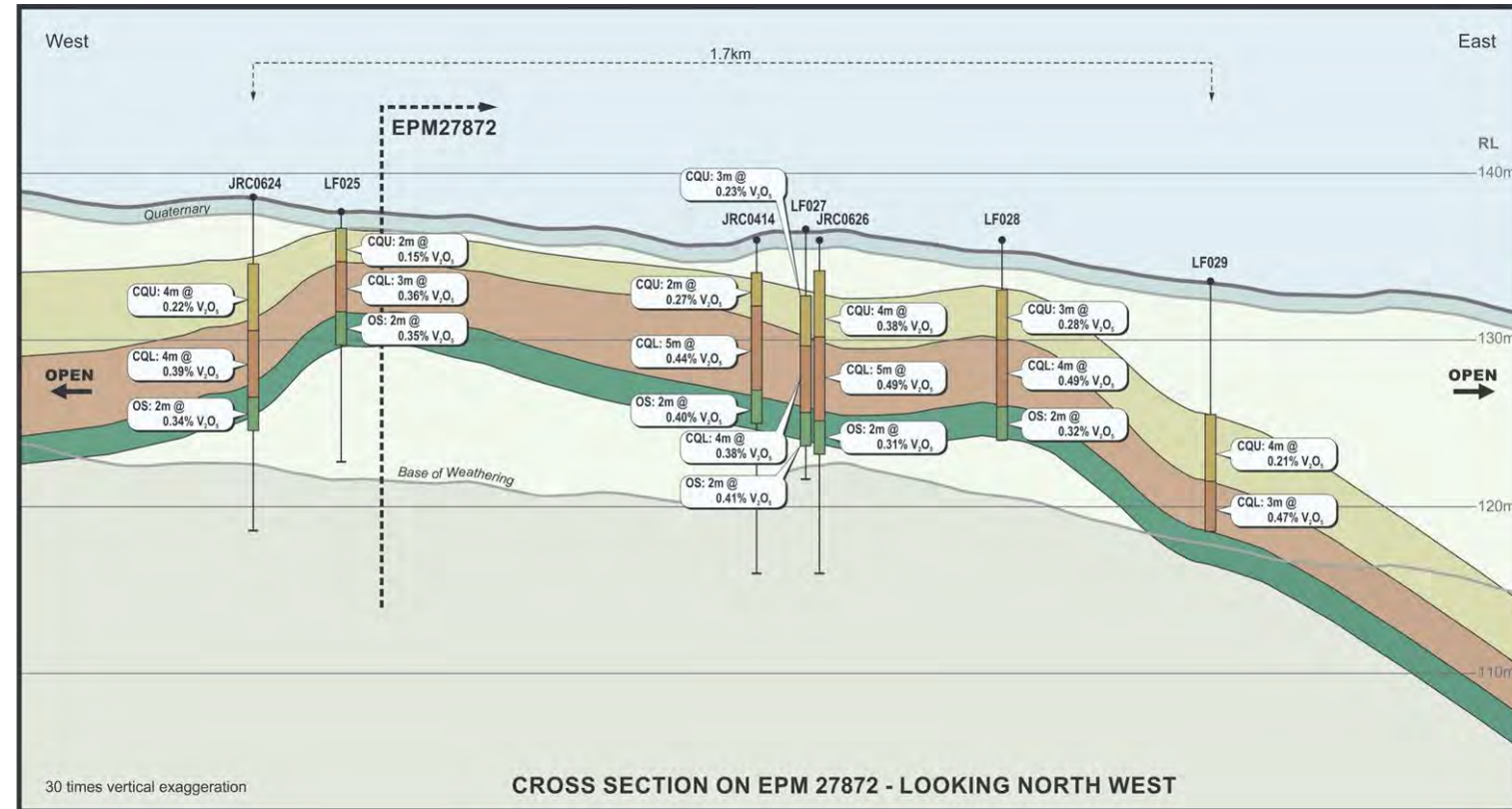
## Government

Strong Government  
backing with vanadium  
demonstration plant



# Unique Deposit Shale Based From Surface

- Ore is soft and at surface requiring no drill and blasting or milling
- Depth advantage = low strip ratio and amenable to standard open cut mining
- Geology gives the deposit an advantage for beneficiation allowing for higher V2O5 concentrate upgrade through floatation separation
- This gives oxidized shallow vanadium deposits a significant advantage over titanomagnetite deposits (hard rock). Resulting in less complex processing, reducing the overall CAPEX and OPEX.





# Vanadium Tailwinds & Development Strategy

## Vanadium Processing Pilot Plant

\$1.265m grant (*Federal Gov*) to Brisbane Met Labs

[Click here for more Info](#)



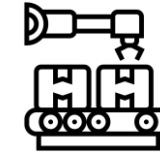
## Battery Manufacturing Queensland

\$100m Federal government commitment to develop battery manufacturing in QLD

[Click here for more info](#)



CMG is leveraging off the significant grants and incentives put in place to develop domestic production of Vanadium, particularly for use in Vanadium Redox Flow Batteries as a grid scale energy solution



## Vanadium Demonstration Plant

\$75m Fully funded (*QLD Gov*) to build plant in Townsville

[Click here for more info](#)



## National Battery Testing Centre (NBTC)

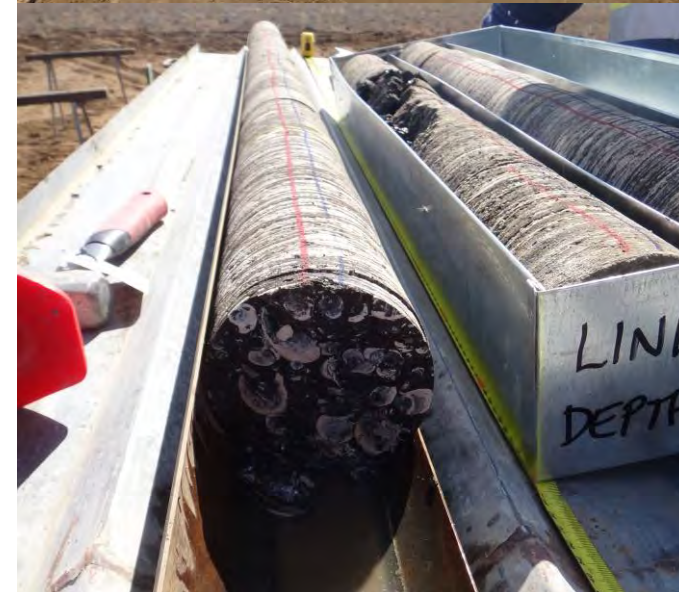
\$50m project and \$15m funded (*QLD Gov*) . NBTC will look at Vanadium flow battery development & standards. Critical Minerals Group is working with NBTC to supply vanadium battery precursor material.



[Click here for more info](#)

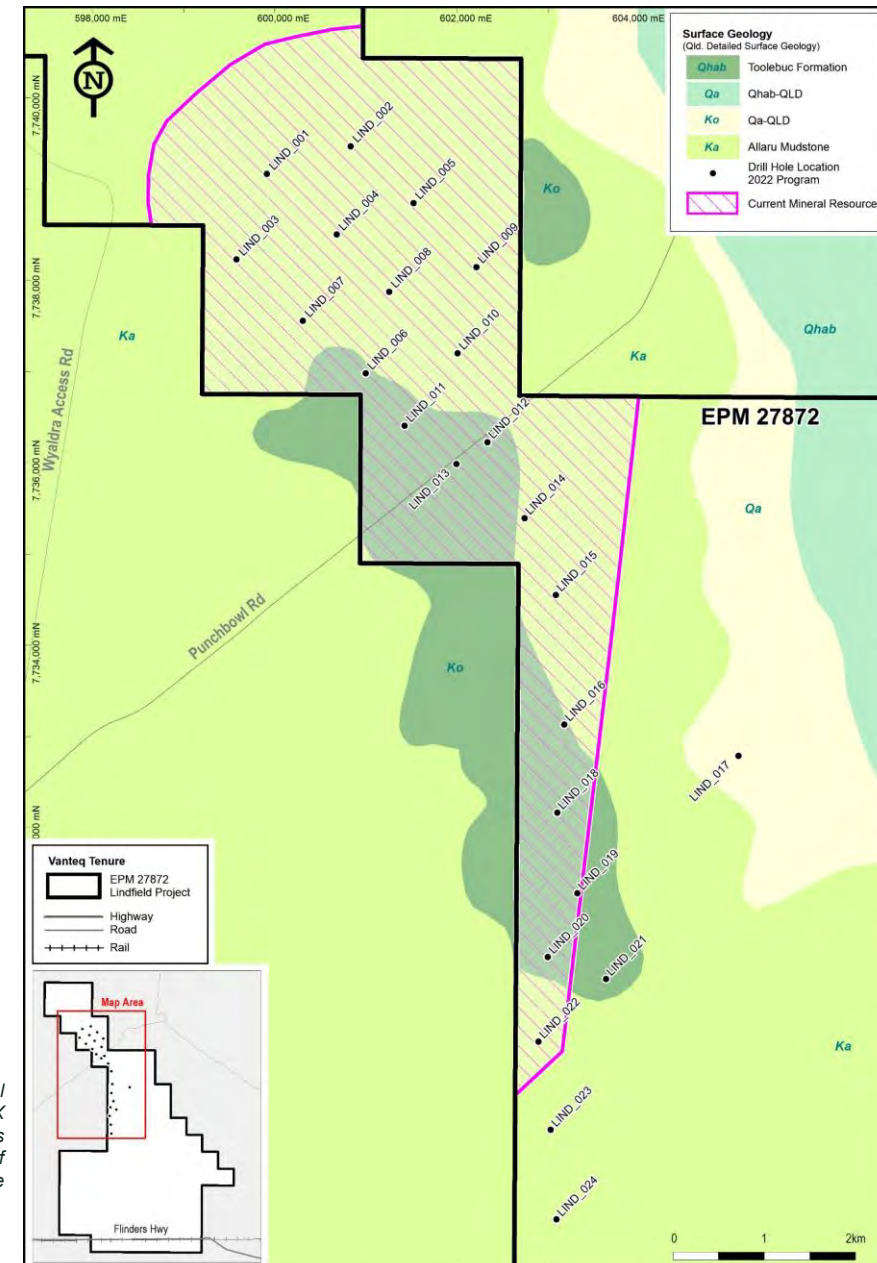
# Progress So Far

- **Flagship granted (2021)**  
- refer to CMG's prospectus dated 25 May 2022
- **Flagship JORC (2021)**  
- refer to CMG's prospectus dated 25 May 2022
- **Prospectus lodged (2022)**  
- refer to CMG's prospectus dated 25 May 2022
- **Secured Idemitsu Australia as a Strategic Investor (2022)**  
- refer to CMG's ASX announcement dated 27 September 2022
- **Listed on ASX (Sept 27th 2022)**
- **Commenced drilling at Flagship (2022)**  
- refer to CMG's ASX announcement dated 12 October 2022
- **New tenement applications around flagship (2022)**  
- refer to CMG's ASX announcement dated 19 October 2022
- **Granting of Cu/Au tenements (2022)**  
- refer to CMG's ASX announcement dated 28 October 2022
- **Granting of Whinmoor tenement (2023)**  
- refer to CMG's ASX announcement dated 1 February 2023
- **Completed drilling at flagship (2022)** (23 x 4 inch core holes, 1x open hole and 3x water monitoring holes)  
- refer to CMG's ASX announcement dated 2 November 2022
- **Receipt of assay results for Flagship (2023)**  
- refer to CMG's ASX announcements dated 22 February 2023 and 13 March 2023



# Lindfield Exploration

- Every core hole intersected the shallow Vanadium and Alumina bearing mineralised zone
- Every core hole had standout assay grades
- $V_2O_5$  standout assays: LIND011 15.89m – 16.22m @ **0.70%  $V_2O_5$** , LIND016 6.50m–6.90m @ **0.62%  $V_2O_5$**  and 6.90m–7.05m @ **0.65%  $V_2O_5$** , LIND019 11.25m–11.50m @ **0.83%  $V_2O_5$**
- $Al_2O_3$  assays include hole LIND019 1.0 m thick, grading at **18.9%  $Al_2O_3$**  from 1.8 m depth



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# Lindfield Exploration



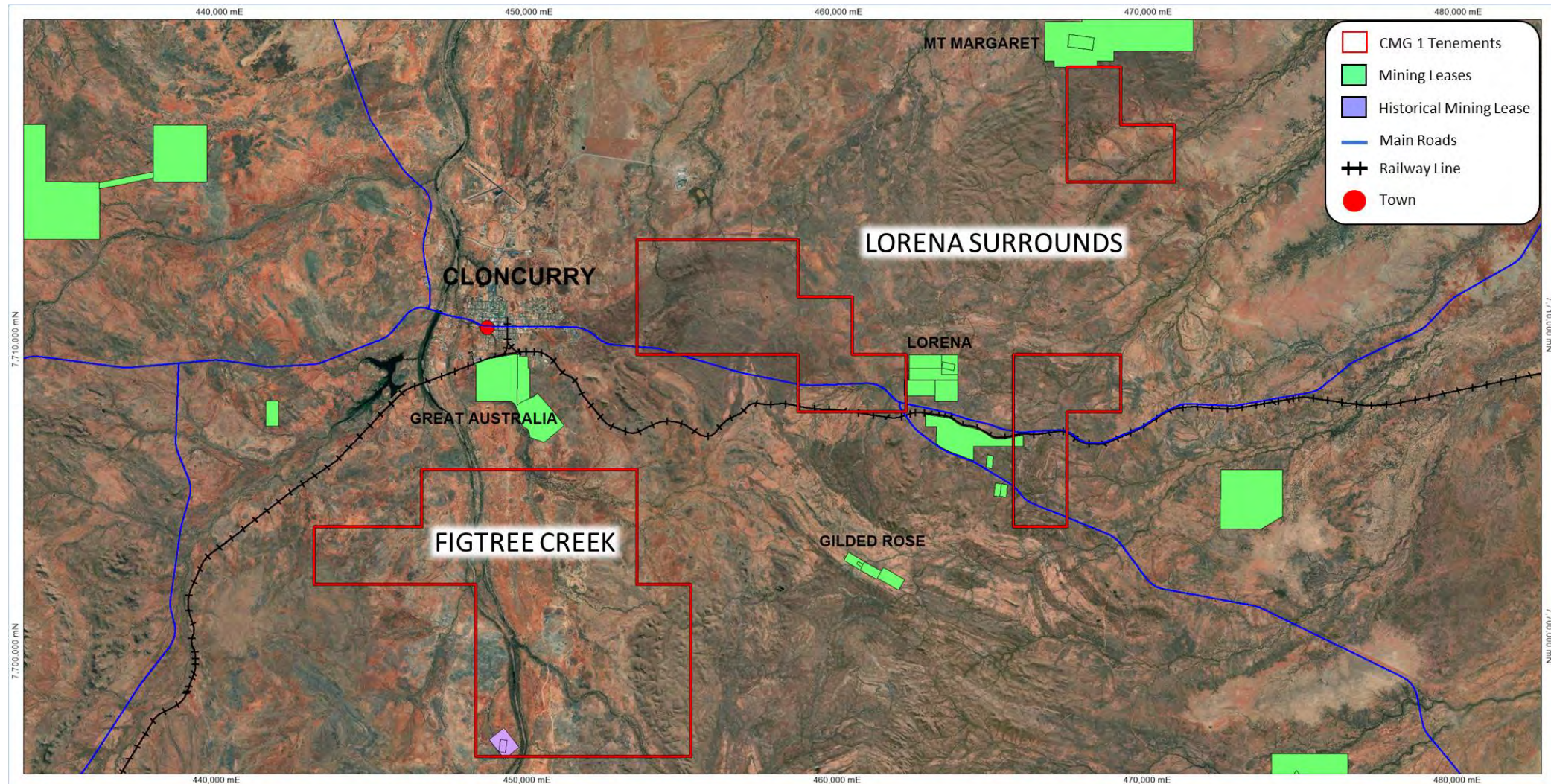
Toolebuc Formation Outcrop (oxidized) at The Lindfield Project



Oxidized Core from The Lindfield Project 2022

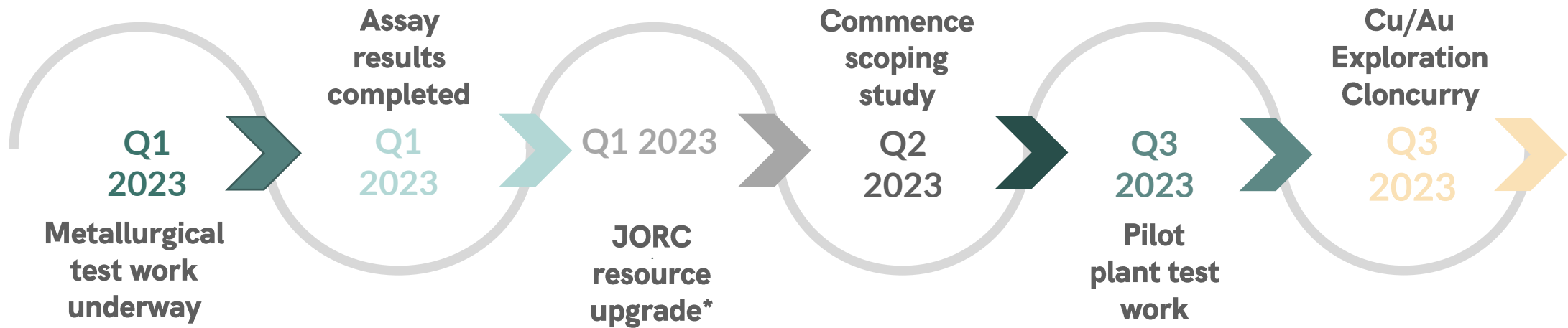


# Newly Granted Tenements



Source: Queensland Government, GeoResGlobe, Available at: <https://georesglobe.information.qld.gov.au/>

# Where to Next



\*Subject to drilling results.



# Key Contacts



## Critical Minerals Group Ltd

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