CORE ENERGY MINERALS

Developing a Highly Prospective Energy Minerals Portfolio in World Class Locations

RIU Sydney Resources Round-up

Investor Presentation
May 2025

ASX:CR3
coreenergyminerals.com.au

High potential asset portfolio in safe, stable jurisdictions

Phased exploration program across Uranium and critical minerals

Leadership experienced in discovery and realising shareholder value

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Cautionary Note relating to historic exploration results

Exploration Results herein have been previously reported by the previous explorers as noted in the highlighted footnotes;

- Some historic exploration was undertaken and reported in the mid 1970s prior to the adoption of the JORC code and between 2010-2014 as such some of these results may not conform to the requirements in the JORC Code 2012;
- Core Energy is unable to determine the accuracy of all drilling results from the 1970s, however Core Energy is of the opinion that drilling undertaken by Areva Exploration PL between 2012 -2014 should be reliable under current standards. Historical 1970s reports list some details of drilling type including RC mud drill hole; however no details of hole survey location, sampling or analytical methodology are mentioned. Reports do indicate that detailed geological logging of drill cuttings was undertaken;
- Exploration programmes noted in historic records include: reconnaissance drilling by Endevour Oil Co. NL in the early 1970s and Le Nickel (Aust) Exploration Pty Ltd in 1972, follow-up drilling by Uranerz (Australia) PL in 1976, and Mud Rotary drilling and ground-based gravity surveys by Areva Exploration PL between 2010-2014;
- Core Energy has not identified any additional exploration results or data relevant to understanding these Exploration Results;
- Core Energy will complete several twin aircore drillholes and detailed analytical testwork on samples collected through independent contractors and laboratories to, where possible validate the historic results noted above, detailed hole location surveys will be completed for new holes undertaken by Core Energy and any historic drill collars should they be identified in the field. All new activities undertaken by Core Energy will be reported in accordance with the JORC Code 2012.
- Core Energy will undertake the proposed exploration work within the first half of 2025. The Company is fully funded to undertake these exploration activities;
- Core Energy cautions that these reported Exploration Results:
    - the Exploration Results have not been reported in accordance with the JORC Code 2012;
    - a Competent Person has not done sufficient work to disclose the Exploration Results in accordance with the JORC Code 2012;
    - it is possible that following further evaluation and/or exploration work that the confidence in the prior reported Exploration Results may be reduced when reported under the JORC Cade 2012;
    - nothing has come to the attention of the acquirer that causes it to question the accuracy or reliability of the former owner's Exploration Results; but
- Core Energy has not independently validated the former owner's Exploration Results and therefore is not to be regarded as reporting, adopting or endorsing those results.

Developing a Highly Prospective Critical Minerals Portfolio

CORE ENERGY MINERALS

High potential asset portfolio

Uranium and critical minerals located in safe, stable jurisdictions of Australia and Brazil

Phased exploration program across Uranium and critical minerals

Based on early exploration success and analysis of historic drilling

Leadership experienced in the discovery of world class mineral deposits

And realising shareholder value

Board with Track Record of Creating Shareholder Value

Tony Greenaway
Executive Director

Senior geologist with +30 years international mining and exploration experience in Australia, Brazil, Chile, Argentina, southern Africa.

Extensive experience across exploration, development and production of copper, gold, PGE, iron-ore and lithium projects, including most recently rapidly de-risking the world class Salinas Lithium Deposit for Latin Resources (ASX:LRS) from discovery through to the Company's sale for circa $600m.

Chris Gale
Non-Executive Chairman

25-year career in commercial and financial roles in public and private companies, and a track record of commercial outcomes with the sale of Latin Resources (ASX:LRS) to Pilbara Minerals (ASX:PLS) for circa $600m.

David Vilensky
Non-Executive Director

Practicing corporate lawyer and experienced listed company director.

+35 years' experience in corporate and business law and in commercial and corporate management.

Christopher Wiener
Non-Executive Director

Chartered Accountant and Portfolio Manager at Norfolk Capital Management. Experienced in corporate finance, equity capital markets and corporate advisory services to small and mid-cap listed resource and industrial companies.

Charles Nesbitt
Exploration Manager

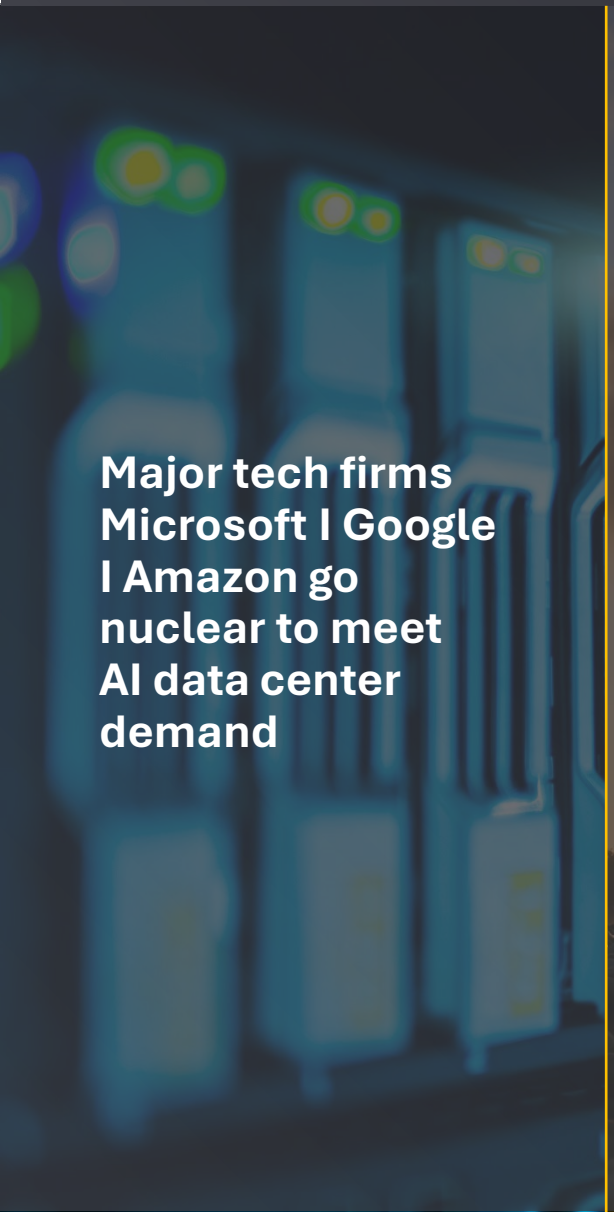
Experienced uranium geologist with over 25 years of extensive experience in the uranium industry, having worked at all of Australia's operating and formerly operating uranium mines, and has also worked across a number of different projects and commodities in undeveloped soft and hard rock uranium deposits and exploration projects throughout Australia and US.

Capital Structure*

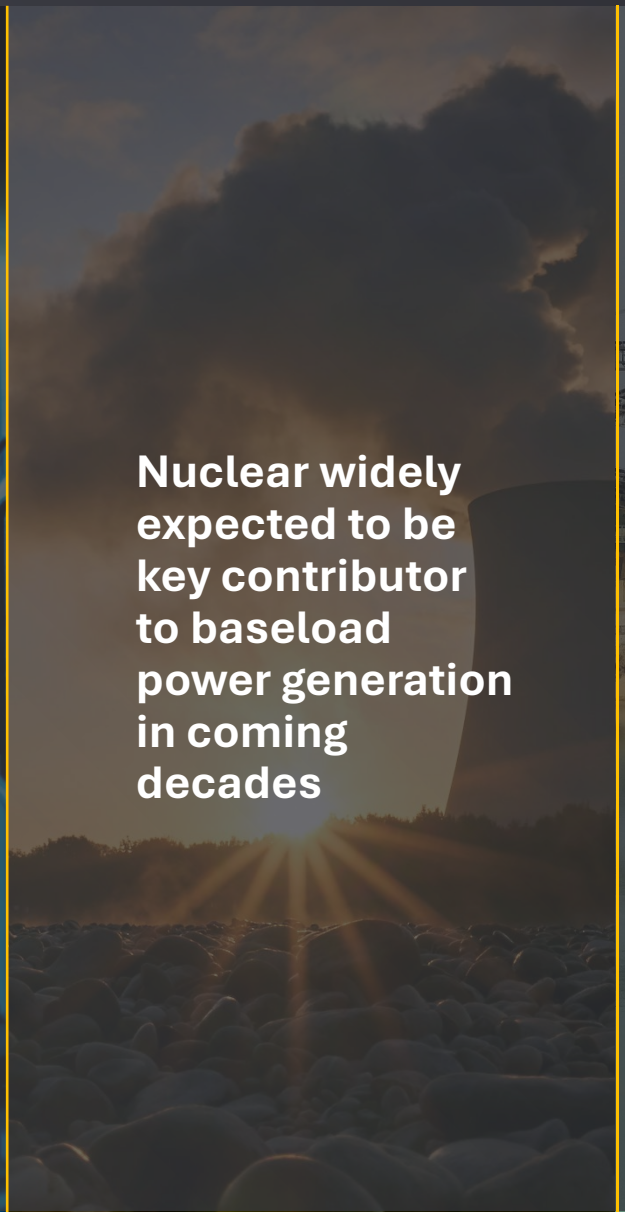
ASX Code	**CR3**
Shares on Issue	**389.2m**
Share Price	**$0.012**
Market Capitalisation	**$5.6m**
Cash & Available Funding	**$1.7m**
Top 20 Shareholders	**46%**

As of 30 April 2025

Headlines: In the News



Major tech firms Microsoft I Google I Amazon go nuclear to meet AI data center demand



Nuclear widely expected to be key contributor to baseload power generation in coming decades

World SMR pipeline expands by 65% since 2021; uranium supply challenges persist

Brazil boosts uranium exploration response to growing global demand

Projects in World Class Locations

Brazil

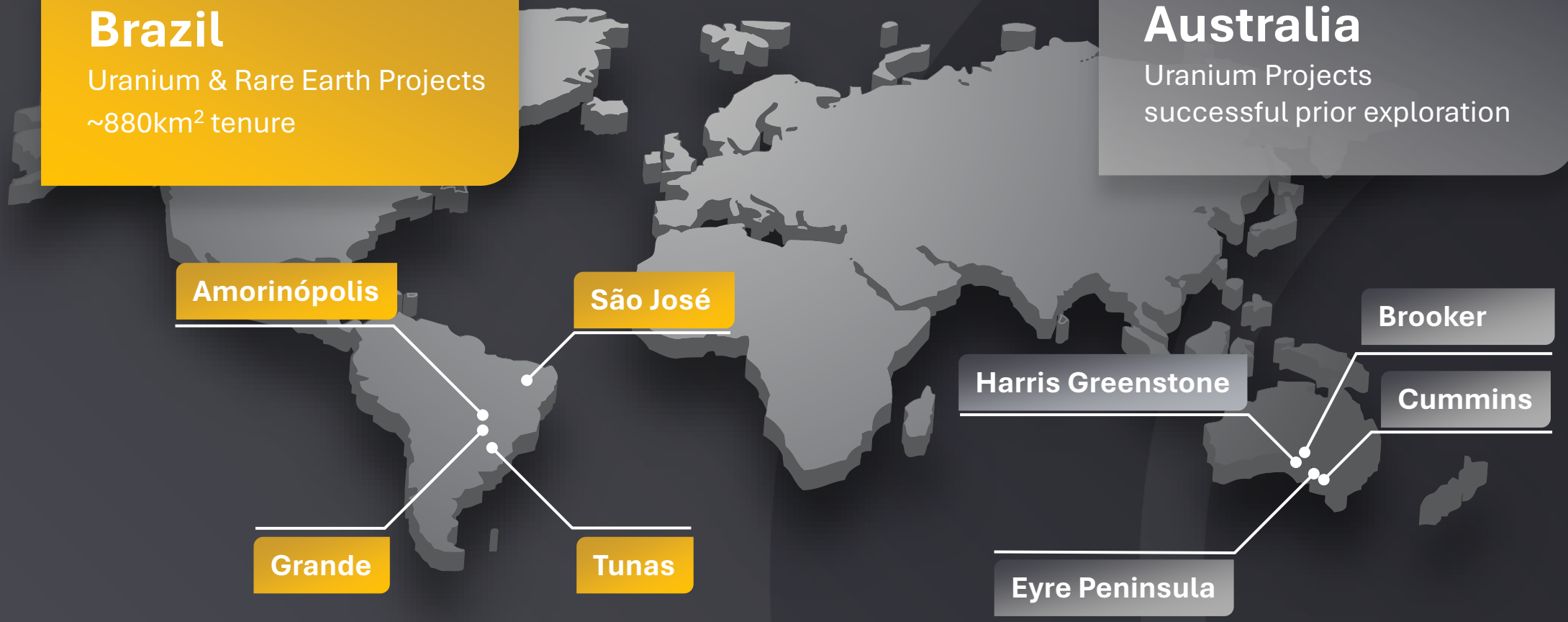
Uranium & Rare Earth Projects

~880km^2 tenure

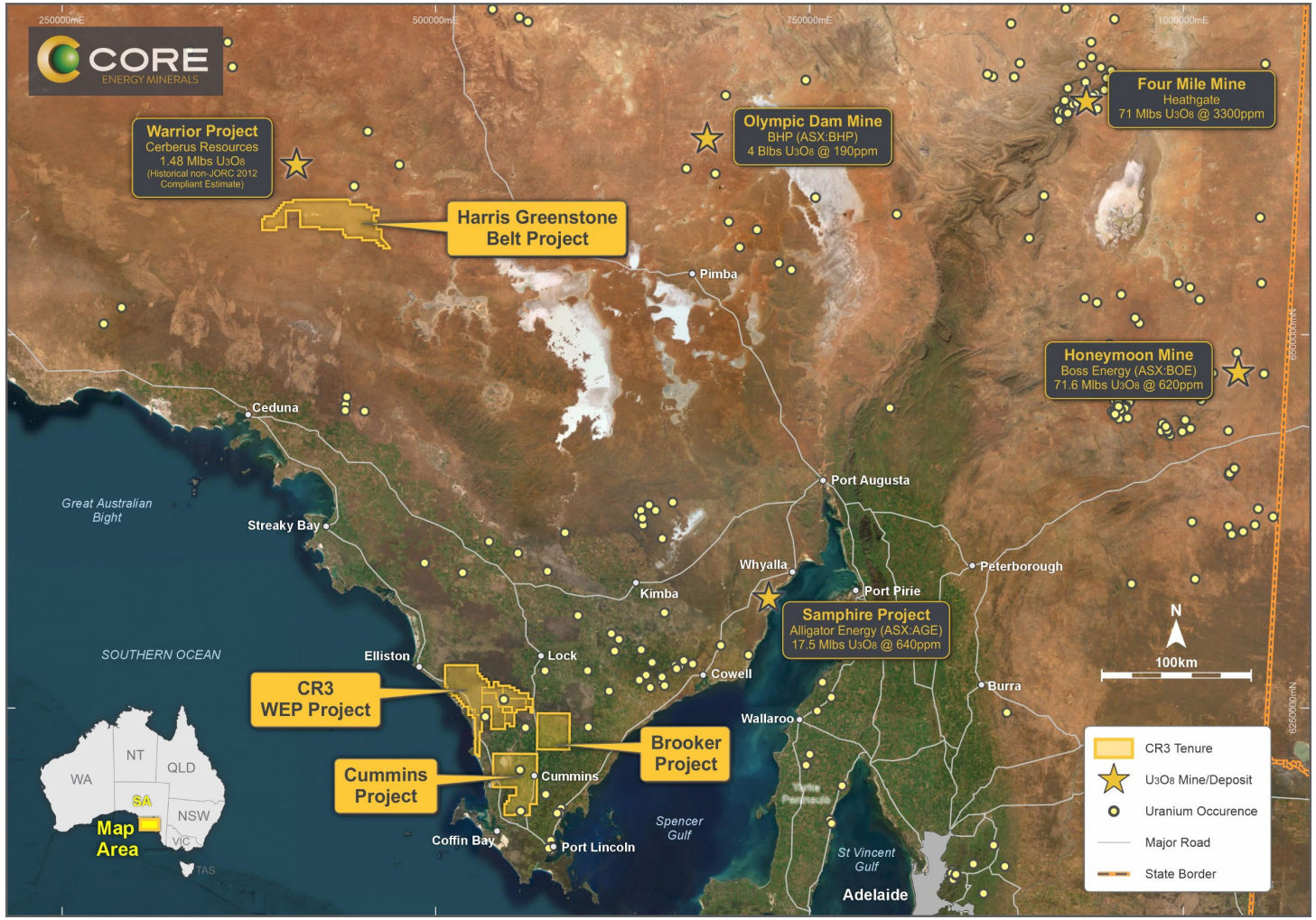
Australia

Uranium Projects

successful prior exploration



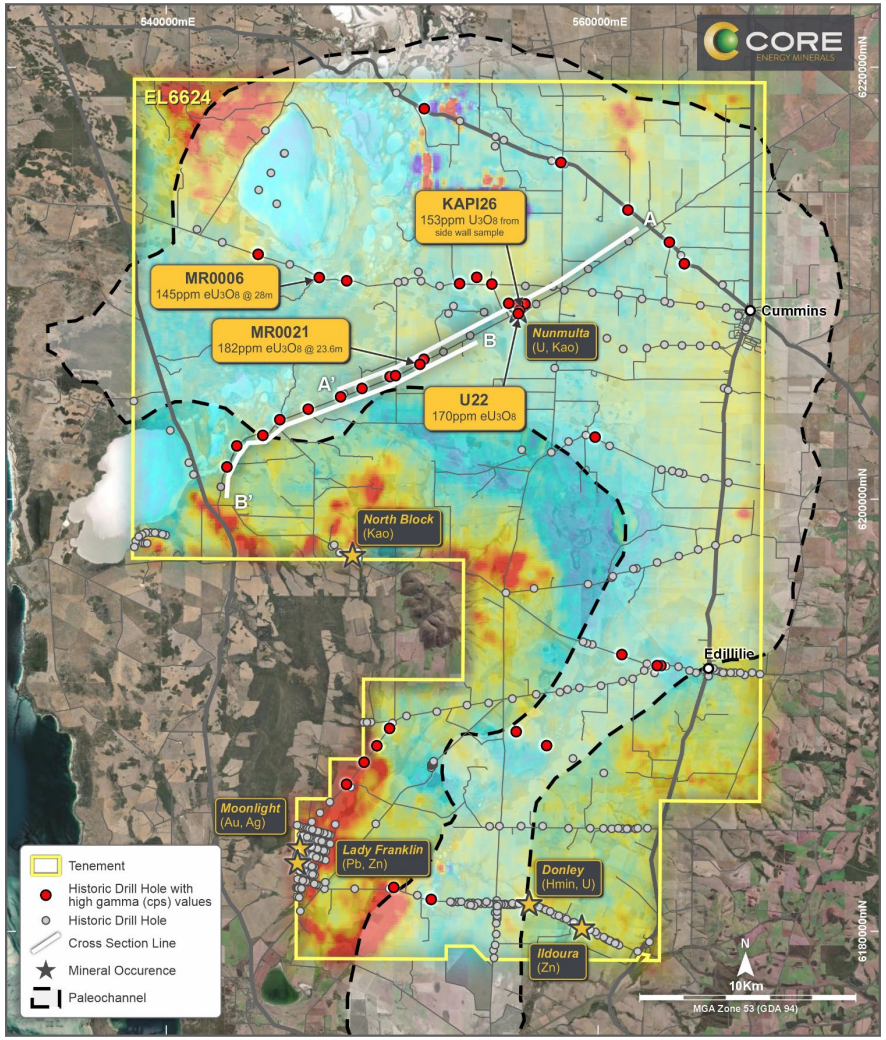
Australia: South Australian Projects



- Core's South Australian tenement portfolio now consists of **2,837 km²** of tenements within the **Eyre Peninsula** and **1,750km²** within the **central Gawler Craton**, with both being **highly prospective for uranium**.
- South Australia is a **uranium friendly state** and is home to several major uranium mines and development projects such as **BHP's Olympic Dam**, **Boss Energy's** (ASX:BOE, market cap >$1b) **Honeymoon Project** and **Alligator Energy's** (ASX:AGE, market cap ~$150m) **Samphire Uranium Project**.
- Historic exploration has proven the **Projects are highly prospective for uranium mineralisation**, with drill ready targets identified.

Refer to appendices for full list of references

Australia: Cummins Project

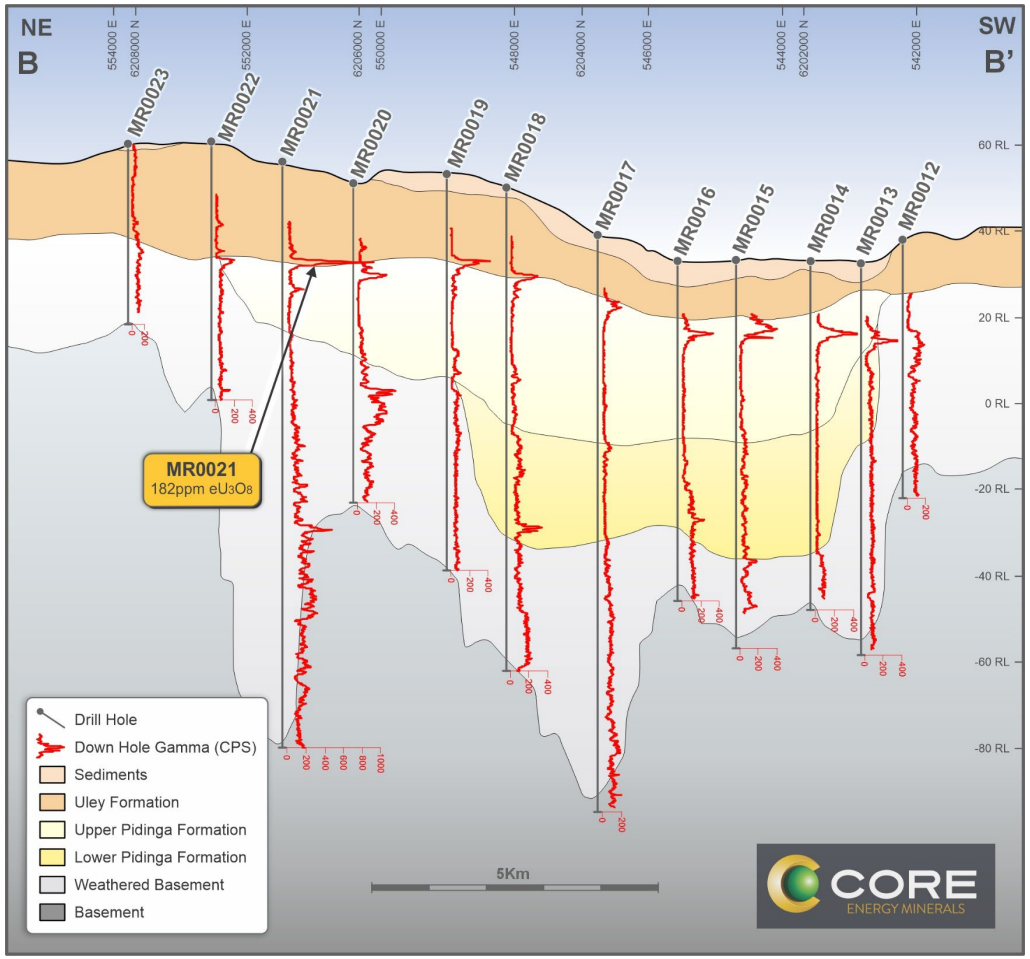


Project Overview

- **Exploration Lease EL6624:** covers 952km^2
- **Location:** Situated in Eyre Peninsula, South Australia, a Tier 1 exploration and mining district.
- **Proven Area:** Eyre Peninsula is one of the highest radiometric provinces in South Australia with proven Uranium potential, hosting Alligator Energy's Samphire Uranium Deposit (ASX:AGE).
- **Mineralisation:** Two high quality target horizons within the extensive, defined palaeochannel system showing signs of near surface uranium mineralization.
- **Historic exploration:** highlighted widespread uranium mineralisation and elevated down hole gamma anomalies.
- **Drilling Program:** Planned AC drilling of ~50 holes for ~3,000m to test the high-priority target areas.

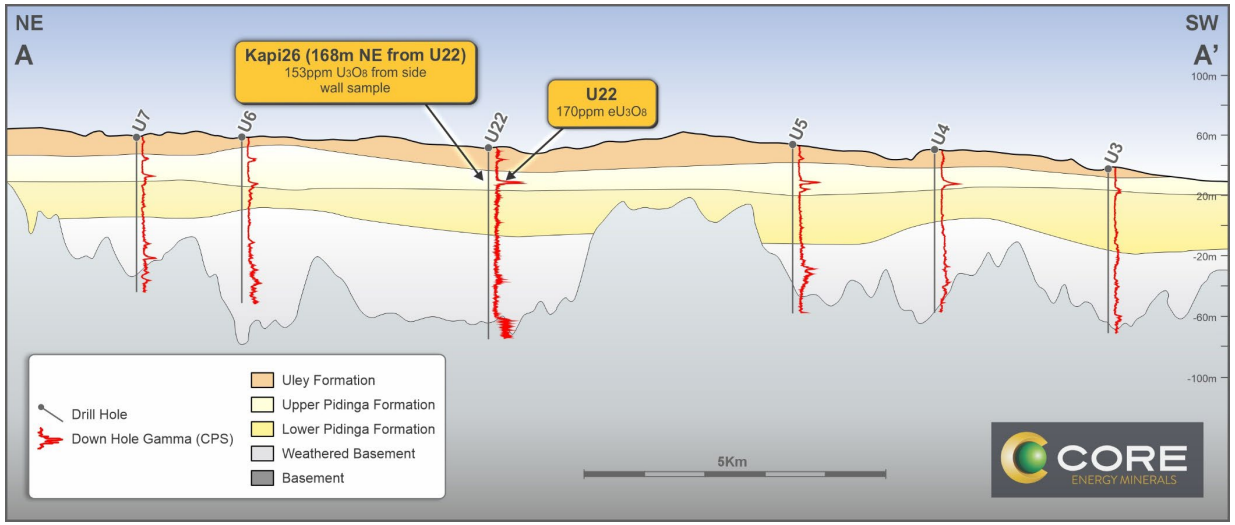
Refer to appendices for full list of references

Australia: Cummins Project



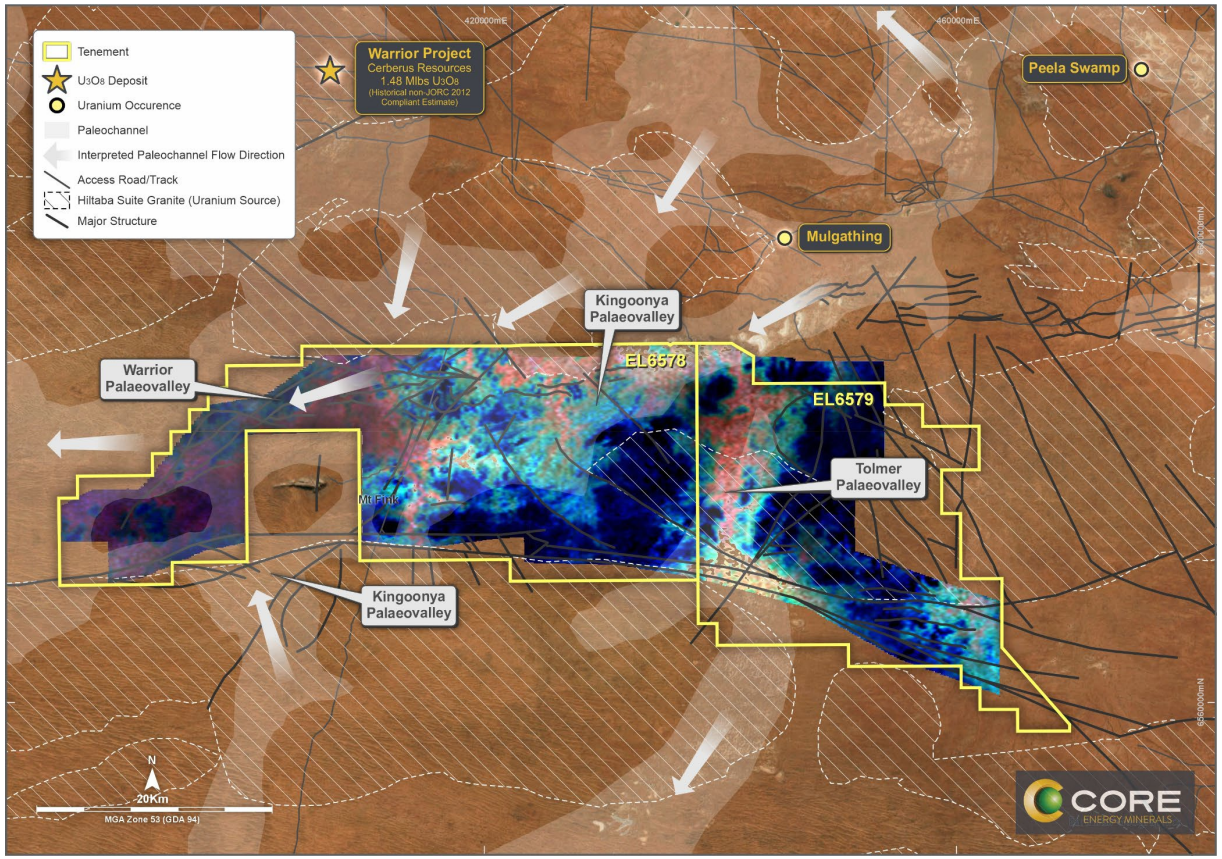
Known Uranium Mineralisation

- **Exploration in the 1970s identified compelling uranium trap sites** within the tertiary basin sediments at redox boundaries, from wide spaced (~1km) reconnaissance drilling.
- **Broad, shallow zones, over >10km of anomalous gamma were identified from historical drilling** and later confirmed by French state-owned uranium exploration company Areva in 2009.
- **Historic exploration highlighted widespread uranium mineralisation and elevated down hole gamma anomalies.**
- **Core will undertake shallow air-core drilling to confirm historic anomalism,** in parallel with a wider systematic exploration campaign.



Refer to appendices for full list of references

Australia: Harris Greenstone Project



Project Overview

- **Exploration Leases EL6578 and EL6579:**
  Covers a combined total of 1,350km^2
- **Location:** situated within the Yellabinna Regional Reserve.
- **Geological Features: contains untested, well-defined palaeochannels surrounded by Hiltaba Suite Granite, a well known source for uranium.**
- **Uranium Mineralisation: Adjacent uranium deposits and occurrences indicate that the palaeochannel system is mineralized.**
- **Geophysical Data:** High quality regional geophysical data set (VTEM, Magnetics, Radiometrics).
- **Targets:** High priority targets immediately identifiable from geophysical data.
- **Other Prospects:** Also prospective for Ni, Cu, REE, and Au.

Note 1: CR3 retains the right to buy out the Harris Greenstone Vendors' Royalty for $5m

Refer to appendices for full list of references

Brazil: A Tier 1 Mining Jurisdiction

CR3's projects are easily accessible with industrial infrastructure at surrounding projects

Home to **one of the world's largest Uranium reserves** and **3rd largest Rare Earth Elements (REE) reserves***

Safe, stable, mining friendly local and national government, with established regulatory regime

World class professional labour force and **strong support from local communities,** 85% renewable Energy, ~5c per Kwh

** Source: 2022 Uranium production: www.world-nuclear.org*

Brazil: High Quality Diversified Portfolio

Amorinópolis - Goiás

2 new uranium prospects identified within prospective sandstone lithologies that are known to host 40% of globally inferred uranium resources.

Less than 5% of **320km²** tenement package has been surveyed with a scintillometer.

São José - Paraiba

Magnetite and garnet rich gneiss identified. Same lithology that hosts high grade ore at Brazil's only operating uranium mine, Caetite.

Mineralisation is interpreted to be structurally controlled, like the nearby Espinharas and REE Uranium deposit.

Grande - Rio Grande do Sul

Tenements host prospective lithologies: sandstone and conglomerates.

Nearby historic uranium occurrences hosted in same lithologies.

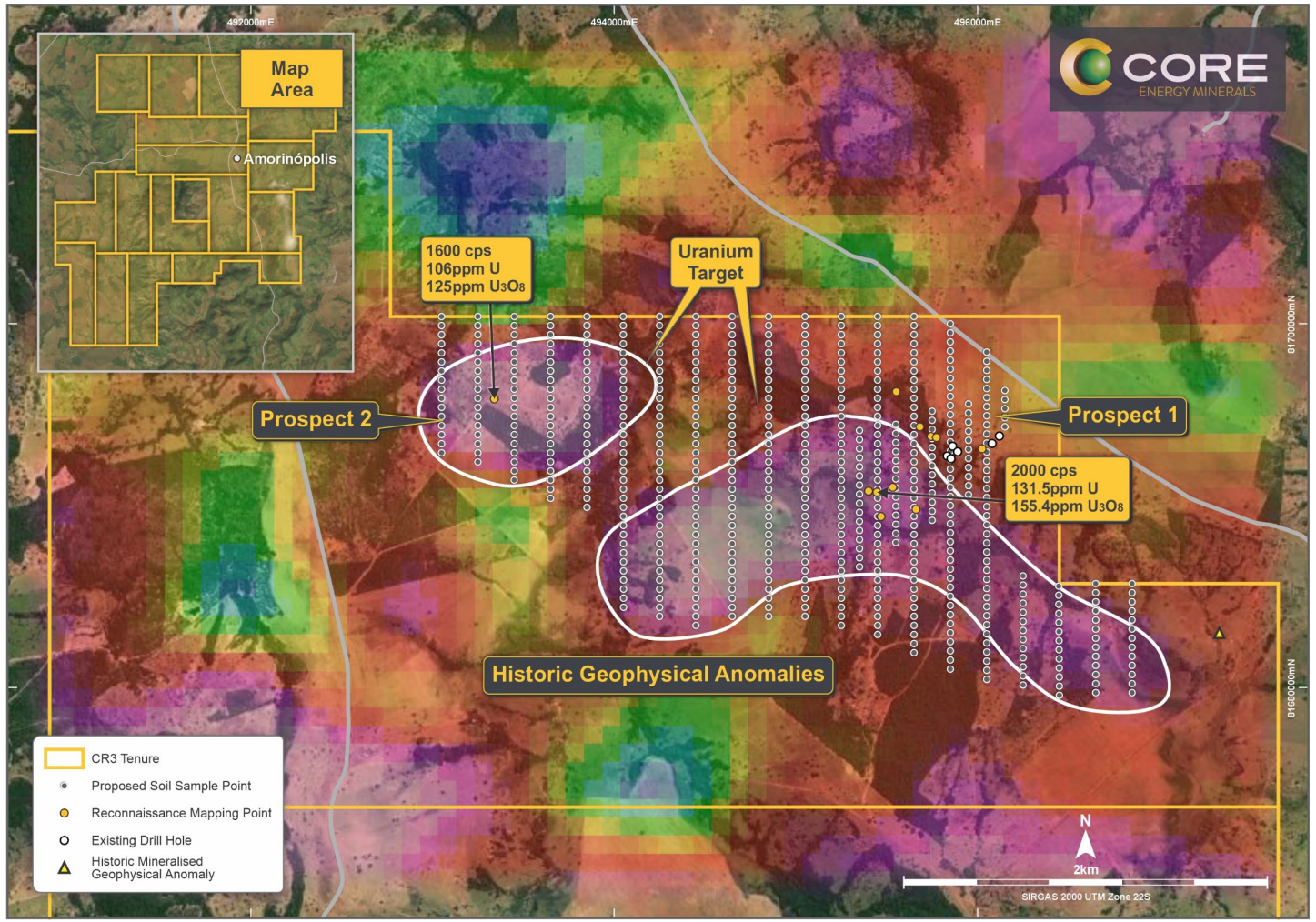
Tunas - Paraná

CR3 tenure surrounds the largest alkaline intrusive complex in Southern Brazil.

Refer to appendices for full list of references

Brazil: Amorinópolis Uranium Project – Encouraging Results

- **Multiple surface Uranium anomalies with values of up to 131.5ppm Uranium (155.1ppm U3O8++) and minimal thorium**
- **Two distinct uranium prospects identified from surface scintillometer** surveys with multiple Uranium values in excess of 100ppm
- **Historic data collection in progress: Nuclebrás 1970s holes found at several locations**
- Follow-up soil sampling program and airborne radiometric survey to **guide further exploration and delineate drill targets (Q2 2025)**
- Additional reconnaissance mapping over remainder of the project area (Q3 2025)

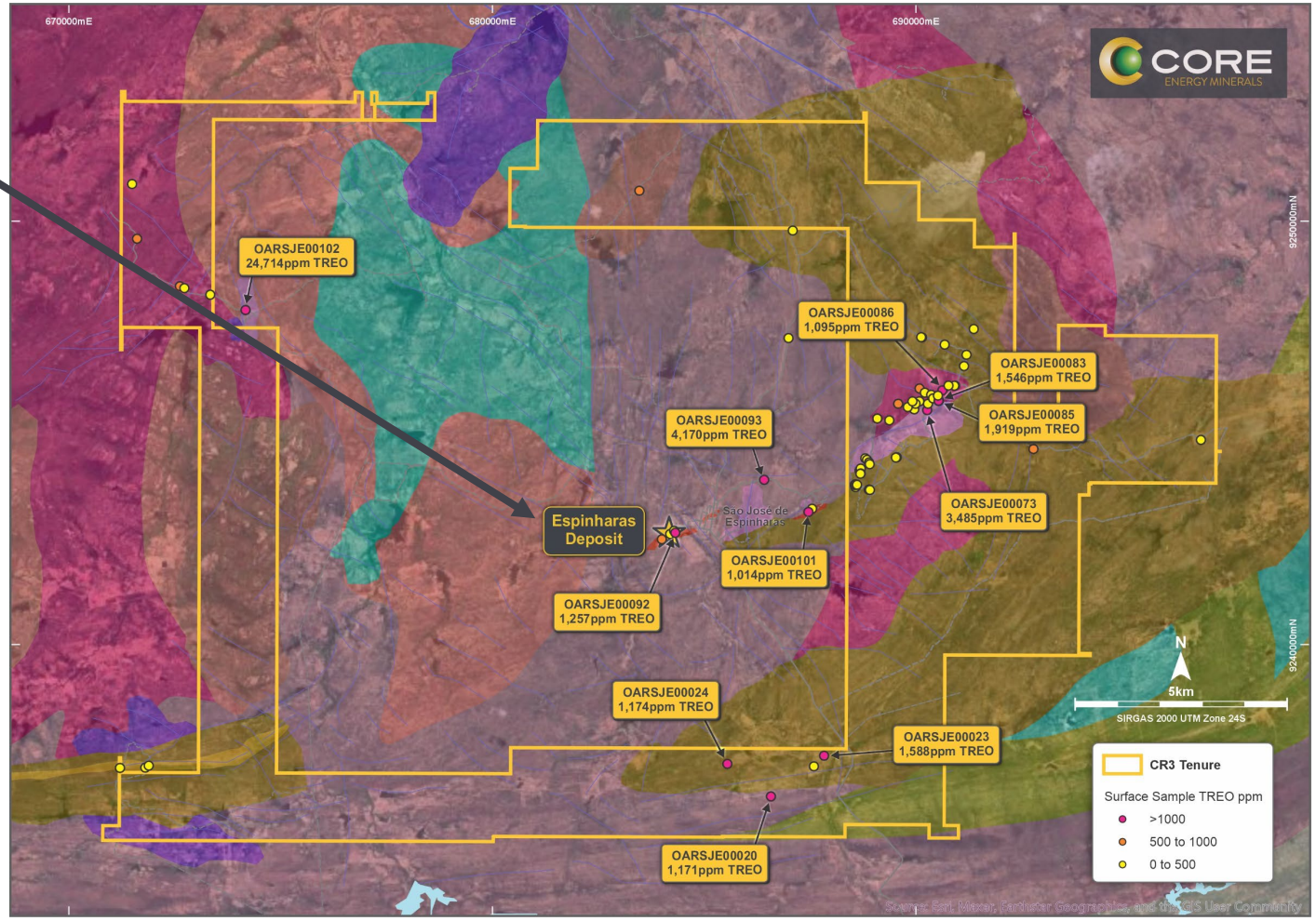


++ *Standard stochiometric conversion used: U to U_3O_8 - 1.1792*

Refer to appendices for full list of references

Brazil: São José REE/ Uranium Project – Paraiba

- **11 granted tenements covering interpreted extension of trend from the historic (1970s) São José de Espinharas Deposit**, which hosts an unverified 22Mlbs of U_3O_8
- CR3 field program identified several areas of interest and highlighted that mineralisation is structurally controlled
- **More detailed mapping and geophysics planned** to better understand the structures and substructures present. (Q2 2025)
- **MOU with INB to share exploration knowledge**: INB recently recommenced exploration at their Espinharas Uranium Deposit



Refer to appendices for full list of references

Developing a Highly Prospective Critical Minerals Portfolio

	2025			2026
	Q2	Q3	Q4	Q1
Australia				
Cummins Project	*Reconnaissance mapping & permitting*		*Air-Core Drilling*	
Harris Greenstone Project	*Reconnaissance mapping, target identification*		*Air-Core Drilling*	
Brooker Project	*Reconnaissance mapping, target identification*			
Brazil				
Amorinópolis Uranium Project *	*Mapping, Geophysics, Soil sampling*		*Drilling*	
São José Uranium Project	*Mapping, Geophysics, Soil sampling*		*Drilling*	
Grande Uranium Project *		*Mapping, Geophysics, Soil sampling*	*Drilling*	
Tunas REE Project*		*Mapping, Geophysics, Soil sampling*	*Drilling*	

** Timeline dependent upon obtaining requisite tenure/permits*

Competent Person Statement

The information in this presentation for Core Energy Minerals Ltd was compiled by Mr Charles Nesbitt, a Competent Person, who is a member of the Australasian Institute of Mining and Metallurgy. Mr Nesbitt is an employee of Core Energy Minerals Ltd. Mr Nesbitt has sufficient experience, which is relevant to the style of mineralisation and types of deposits under consideration and to the activity to which he is undertaking to qualify as a "Competent Person" as defined in the 2012 Edition of the 'Australasian Code for Reporting of Exploration Results, Mineral Resources and Ore Reserves.' Mr Nesbitt consents to the inclusion in the report of the matters based on his information in the form and context in which it appears.

All references to original source information are included as footnote and endnote references as indicated throughout the presentation where required.

No new information that is considered material is included in this document. All information relating to exploration results has been previously released. The Company confirms that it is not aware of any new information or data that materially affects the information in the relevant announcement.

These announcements may be viewed at www.coreenergyminerals.com.au and www.asx.com.au. The Company confirms that it is not aware of any new information or data that materially affects the information included in the original market announcements. The Company confirms that the form and context in which the Competent Person's findings are presented have not been materially modified from the original market announcement.

Announcements Referenced in this presentation.

- ASX Announcement – 8 April 2025: Cummins Uranium Project – Exploration Update
- ASX Announcement – 28 January 2025: Core Energy raises $3.7M and welcomes Cornerstone Investor
- ASX Announcement – 24 January 2025: Acquisition of Highly Prospective Uranium Projects (Amended)
- ASX Announcement - 14 November 2024: Appointment of Exploration Manager
- ASX Announcement - 9 September 2024: Management Restructure
- ASX Announcement – 2 September 2024: OAR Confirms Uranium Mineralisation at Amorinopolis (Amended)
- ASX Announcement – 29 May 2024: OAR Expands Brazilian Uranium Footprint
- ASX Announcement – 3 April 2024: OAR Expands Into World Class Uranium Mining Region

Authorisation

This presentation has been approved for issue by the Board of Core Energy Minerals Ltd

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Phased exploration program across Uranium and critical minerals

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