05 May 2025

RIU Sydney Resources Round-up

Australian Rare Earths (ASX: AR3) is pleased to advise that Managing Director and Chief Executive Officer, Travis Beinke, will be presenting at the RIU Sydney Resources Round Up in Sydney.

Date: **Tuesday 6th May 2025**

Time: **2:00pm (AEST)**

To attend the event in person please **register via this Link**.

For shareholders attending in person, management will be at **Booth #48**, alternatively please email **hello@ar3.com.au** if you would be interested in a 1on1 meeting with management at the event.

A copy of the conference presentation is provided below.

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For further information please contact:

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AUSTRALIAN RARE EARTHS
Metals for our future

Securing Australia's Energy Transition Metals

RIU Sydney Resources Roundup Presentation

May 2025

ASX: AR3

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Australian Rare Earths Presentation

AUSTRALIAN RARE EARTHS
Metals for our future

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Disclaimer & Important Information

Australian Rare Earths Limited ('AR3' of the 'Company') does not purport to give financial or investment advice. No account has been taken of the objectives, financial situation or needs of any recipient of this document. The opinions and recommendations in this presentation are not intended to represent recommendations of uncertainties, to particular persons. This presentation does not constitute financial product advice.

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This document has been prepared as a summary only and does not contain all information about the Company's assets and liabilities, financial position and prospects and the rights and liabilities attaching to the Company's securities. This document should be read in conjunction with any other reports and information provided or released by the Company.

Some of the statements contained in this presentation are forward-looking statements. Forward looking statements include but are not limited to, statements concerning estimates of expected costs, statements relating to the advancement of the Company's investments and other statements which are not historical facts. Although the Company believes that its expectations reflected in the forward-looking statements are reasonable, such statements involve risk and uncertainties, and no assurance can be given that actual results will be consistent with these forward-looking statements. Various factors could cause actual results to differ from these forward-looking statements include the potential that the Company's projects may experience technical, geological, metallurgical and mechanical problems, changes in product prices and other risks not anticipated by the Company or disclosed in the Company's published material.

Competent Persons Statement

The information in this report that relates to Exploration results and the Exploration Target is based on information compiled by Australian Rare Earths Limited and reviewed by Mr. Rick Pobjoy who is the Chief Technical Officer of the Company and a member of the Australian Institute of Mining and Metallurgy (AusIMM). Mr. Pobjoy has sufficient experience that is relevant to the style of mineralisation, the type of deposit under consideration and to the activities undertaken 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. Pobjoy consents to the inclusion in this report of the matters based on this information in the form and context in which it appears.

The Company confirms that it is not aware of any new information or data that materially affects the Mineral Resource estimate and Exploration Target information included in the relevant market announcement (ASX announcement dated 30 September 2024) and that all material assumptions and technical parameters underpinning the estimates in the relevant market announcement (ASX announcement dated 30 September 2024) continue to apply and have not materially changed. 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 (ASX announcement dated 30 September 2024).

The information in this report that relates to metallurgical results is based on information compiled by Australian Rare Earths Limited and reviewed by Mr. Jon Weir who is the Technical Director of Wallbridge Gilbert Aztec and a member of the Australian Institute of Mining and Metallurgy (AusIMM). Mr. Weir has sufficient experience that is relevant to the metallurgical testing which was undertaken 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. Weir consents to the inclusion in this report of the matters based on this information in the form and context in which it appears.

Information in this Presentation is extracted from the ASX announcements titled:

- "Extension of Uranium mineralization at Overland's Western Margin Target" 28 March 2025;
- "AR3 confirms near surface Uranium discovery at overland" 19 March 2025;
- "Overland Progress Update" released 21 January 2025;
- "AR3 awarded $5M Federal Government grant for Koppamurra Project" released 6 December 2024;
- "AR3 expands Overland Uranium Project with strategic farm-in agreement" released 19 November 2024;
- "Significant Resource Expansion at Koppamurra" released 30 September 2024;
- "AR3 progresses Uranium strategy with Exploration License Application at Hamilton Creek" released 23 July 2024;
- "AR3 Advances Uranium Exploration with New License Application at Triggs Bore" released 16 July 2024; and
- "Flowsheet Update for Koppamurra Outlines Low Capital Development Pathway" released 2 April 2024.

All announcements are available on www.ar3.com.au.

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AUSTRALIAN RARE EARTHS
Metals for our future

Advancing a multi-generational Rare Earths Province and expansion into Uranium exploration

1

Strategic Rare Earth Project
Strategically important rare earth project.
Advancing the project through pre-feasibility with $5m Australian Government co-funding grant at a time the market is eager for new supply options.

2

Uranium Discovery Potential
Initial drilling shows strong potential for In-Situ Recovery (ISR) amenable, sedimentary-hosted uranium deposits.
Additional Uranium model with discovery of widespread near surface calcrete-hosted Uranium mineralisation.
Large scale exploration on multiple targets identified and underway.

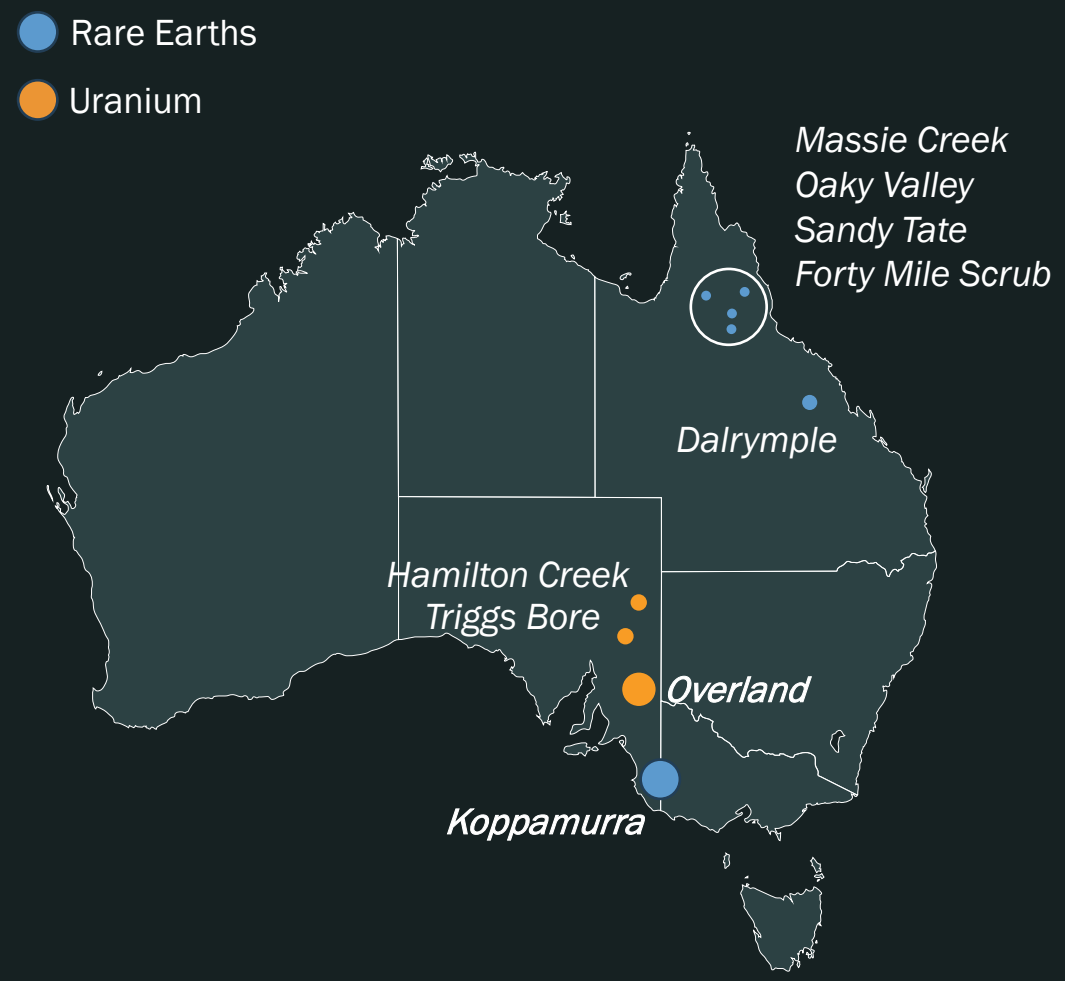
3

International Partnerships
Supported by Neo Performance Materials, AR3 shareholder and global advanced industrial materials manufacturer.
Established rare earth supply chain pathway to global markets.

4

Growth Focused and Well-funded
Experienced team with proven capabilities in asset acquisition, exploration and development.
Recently completed Rights Issue securing additional **$3.6m funding with 93% raised through existing shareholders.**

Diversified Project Portfolio



Koppamurra: Government supported REE Development Project

- $5 million Australian government grant funding
- Australia's most advanced ionic clay-hosted rare-earth project, located in South Australia and Victoria
- **236Mt @ 748ppm TREO**[1] with significant upside, including **68Mt @ >1000ppm TREO**

Overland: Untapped Uranium Exploration Potential

- ~4,800km^2 of prospective uranium tenure in South Australia
- Actively exploring with targeted drilling campaigns

Expansive Exploration Portfolio

- Exploration projects across South Australia and Queensland

[1] Mineral Resource estimate of 236Mt at 748ppm, comprises of 0.7Mt at 813ppm Measured, 112Mt at 750ppm Indicated and 123Mt at 747ppm Inferred TREO

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Koppamurra Rare Earths Project

Leading the development of a multi-generational rare earths project in Australia

Critical Minerals dominating recent news coverage

New Rare Earths supply in demand!

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FINANCIAL REVIEW

— Opinion

China weaponises rare earths in tariff war

Government to stockpile critical minerals to safeguard supply

New battleground in critical minerals race is on Australia's doorstep

China primes rare earths weapon as trade war escalates

By Andy Home

April 11, 2025 12:18 AM GMT+10 · Updated 20 days ago

Reuters

Commentary | By Andy Home

THE AUSTRALIAN

Rare earths stockpiled as Rinehart- backed miner halts exports to China

Miners welcome critical minerals stockpile amid market turbulence

By Isabel Vieira 24/04/2025 - 16:25

BUSINESSNEWS

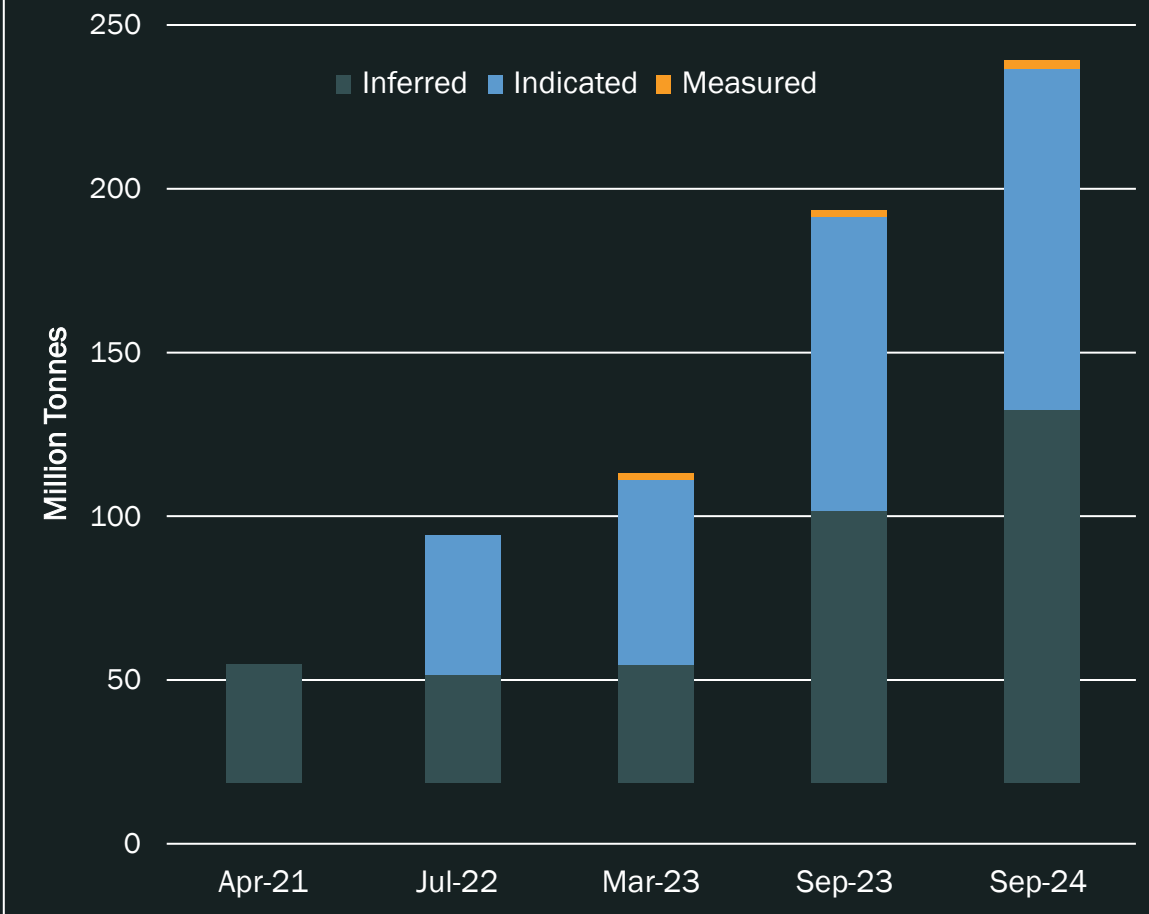
Critical minerals miners have overwhelmin

to build a stockpile that could be used as a bargaining chip in trade negotiations.

Koppamurra: Overview

Location	~300km SE of Adelaide, in South Australia and Victoria
Scale/Size	7,400sqm
Ownership	100%
Partner	NEO (Non-binding MOU for 50% offtake of stage 1)
Commodity	Valuable **Magnet Rare Earth ~25%** of TREO with all **four key REEs present** including strategically valuable heavy REE's **Dysprosium & Terbium ~3%**
Stage	Exploration & Development
Drilling	~64,000 metres drilled since 2021
Resource	236Mt @ 748ppm TREO[1] - Includes higher-grade subset of **68Mt grading over 1000ppm**
Growth Potential	Compelling scope for ongoing Mineral Resource growth with mineralisation open to the north and south and the current 236 Mt Mineral Resource covers only ~2% of total Koppamurra tenure

Koppamurra Resource Growth[1]



[1] Mineral Resource estimate of 236Mt at 748ppm, comprises of 0.7Mt at 813ppm Measured, 112Mt at 750ppm Indicated and 123Mt at 747ppm Inferred TREO

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Koppamurra: Light & Heavy Rare Earths project with time-to-market edge

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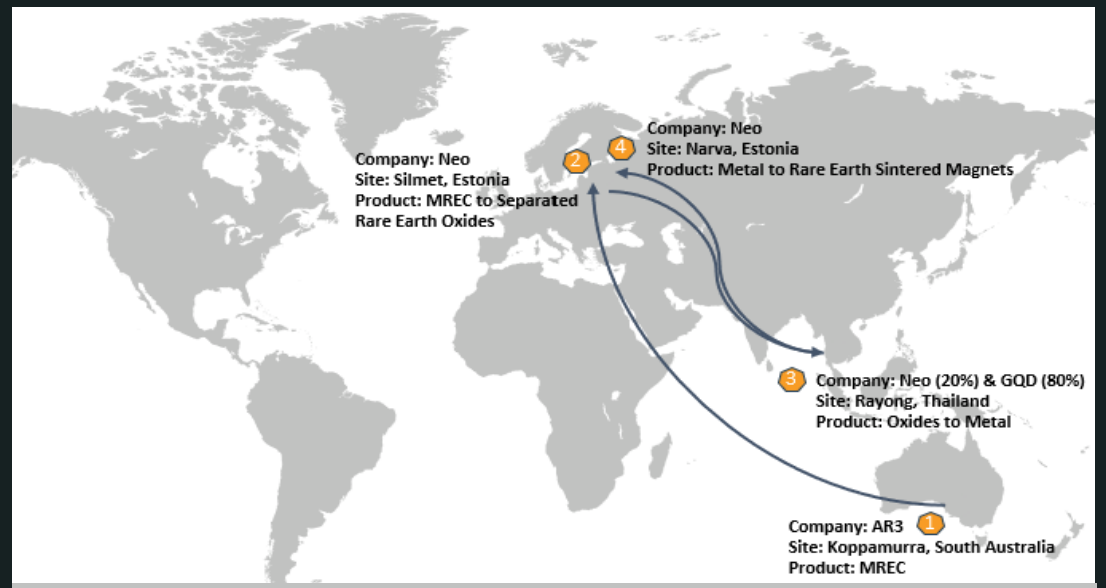
- **$5m Australian Government grant for International Partnerships in Critical Minerals supporting:**
  - Metallurgical test work
  - Completion of a PFS
  - Submission of an initial Mining Lease Application and
  - Building/operating demonstration plant
- **AR3 to invest $5m matched funding over 2025 and 2026:**
  - Every dollar AR3 invest can unlock more – multiplied by grant co-funding and boosted by R&D tax incentive
- **Neo Performance Materials:**
  - Canadian technical partner and potential offtake for Koppamurra production
- **Providing mine supply into an international supply chain:**
  - Koppamurra can feed an existing downstream supply chain



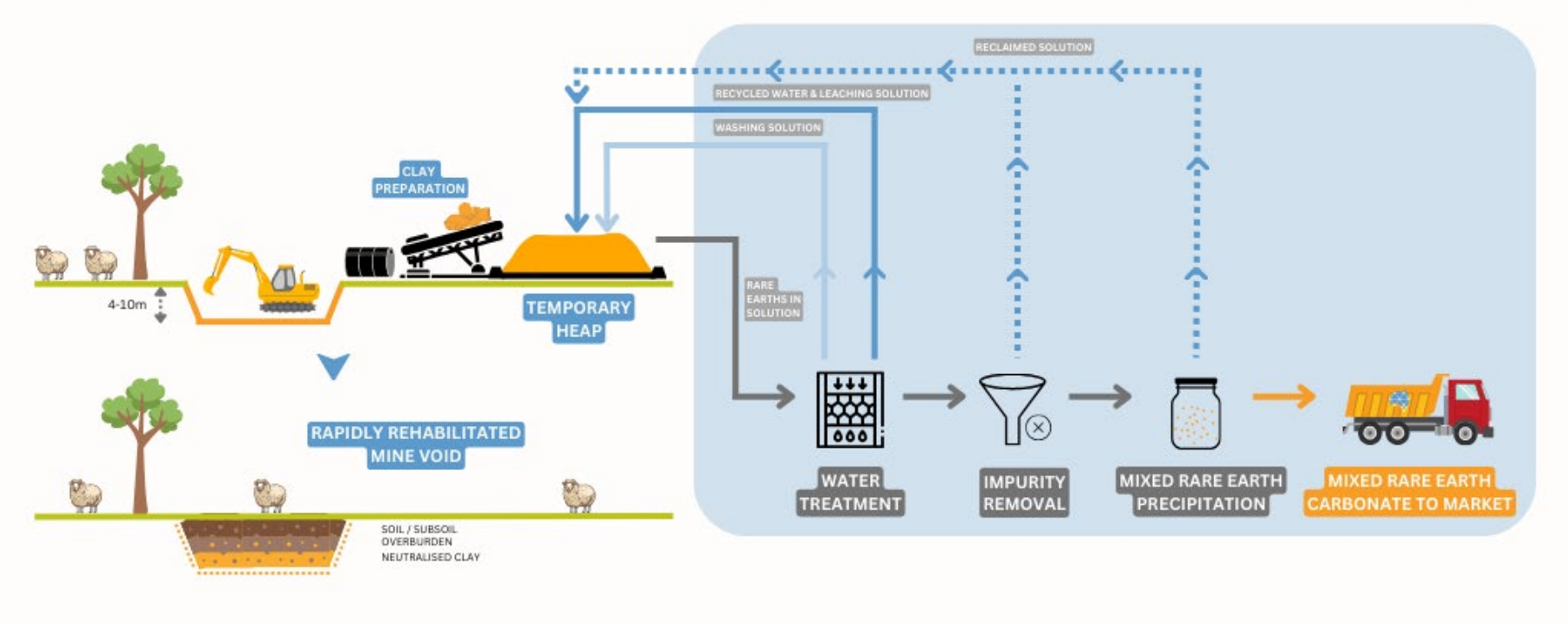
Mine to Magnet Pathway for the Koppamurra Project[1]

[1] Mine to Magnet Pathway illustrated is contingent on Neo and AR3 reaching binding agreements

Koppamurra: Sustainable development pathway

- Progressive Heap Leach and Rapid Rehabilitation
- **Scalable and efficient** with staged satellite developments
- Less water and energy usage
- **Favorable capex** and lower technical risk
- Enables **rapid, progressive land rehabilitation**

KOPPAMURRA CONCEPTUAL PROJECT FLOW SHEET



A SIMPLE PROCESS WITH LOW TECHNICAL RISKS AND IS ENVIRONMENTALLY SUSTAINABLE

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Mine design incorporating progressive land rehabilitation

Successful Bulk Sample Pit and Rehabilitation Program

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April 2022

September 2022

August 2024

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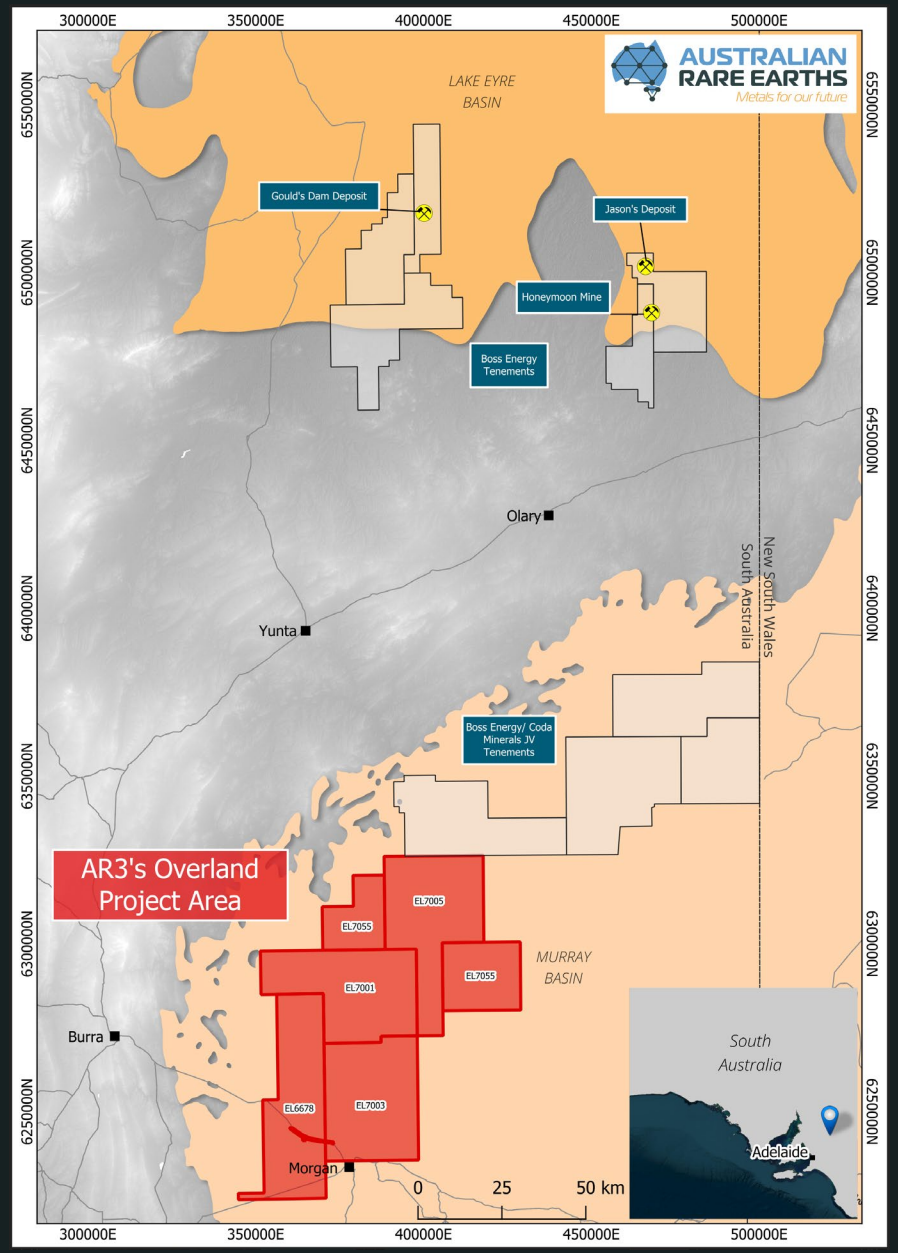
Uranium

Untapped uranium exploration potential >4800km^2

Overland Uranium Project: Overview

Location	South Australia,~200km south of Honeymoon Mine
Scale/Size	~4,800km^2
Ownership	~3,800km^2 100% and ~1,000km^2 (EL6678) 100% sedimentary hosted uranium rights
Commodity	Uranium
Stage	Greenfields exploration targeting In-Situ Recovery (ISR) amenable and near surface calcrete-hosted uranium deposits
Drilling	Active drill program following up new surficial uranium discovery and deeper, ISR-amendable targets
Initial Results	Discovery of widespread near surface calcrete hosted uranium mineralisation; ISR-amenable geological model confirmed with a north/south trending palaeovalley setting defined, providing for the accumulation of thick sequences of prospective stratigraphy; interbedded sands, clays and lignite horizons
Growth Potential	Frontier uranium region, limited prior exploration Multiple high-priority targets to test



Overland project area

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Overland Project: Untapped Uranium exploration potential

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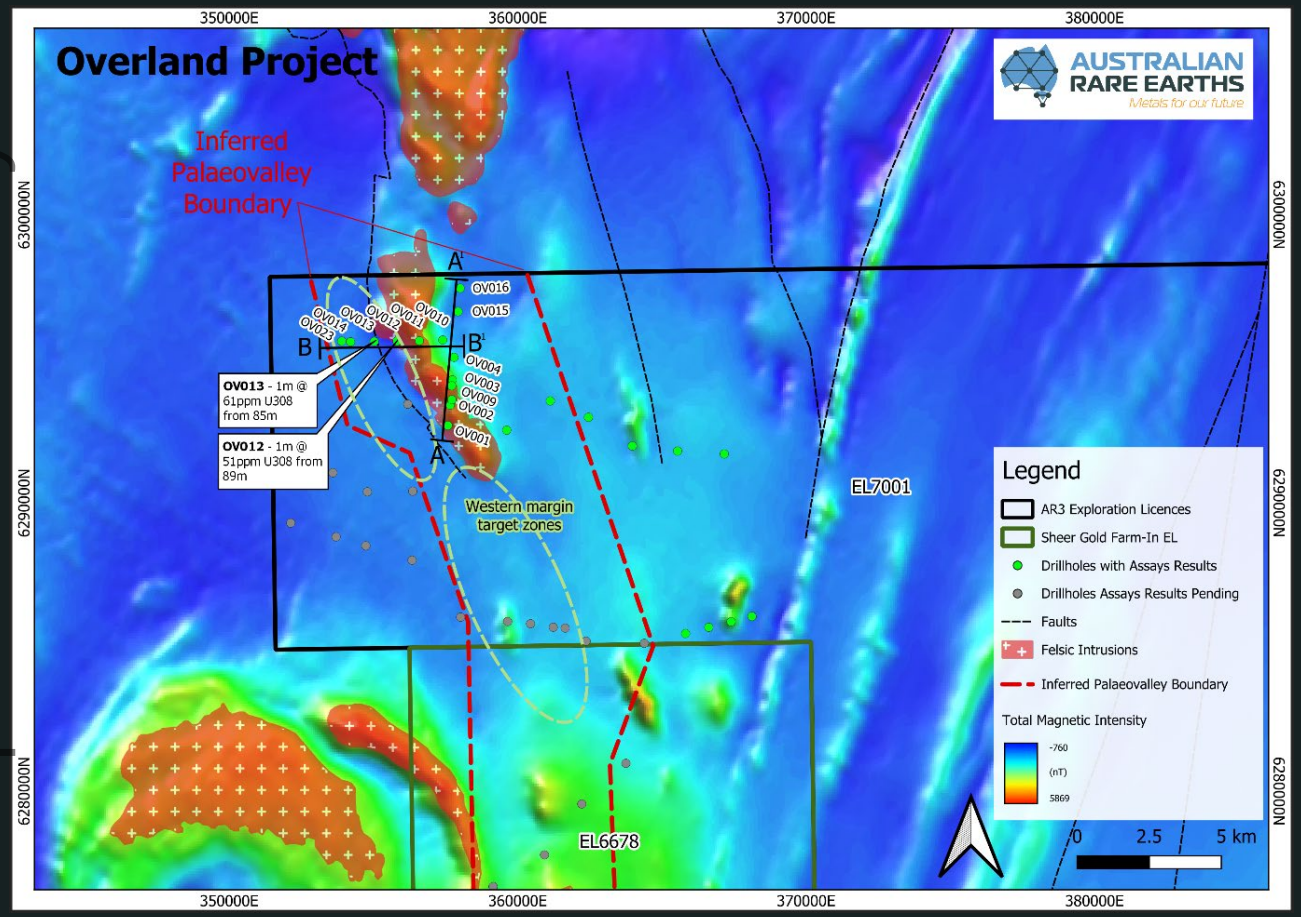
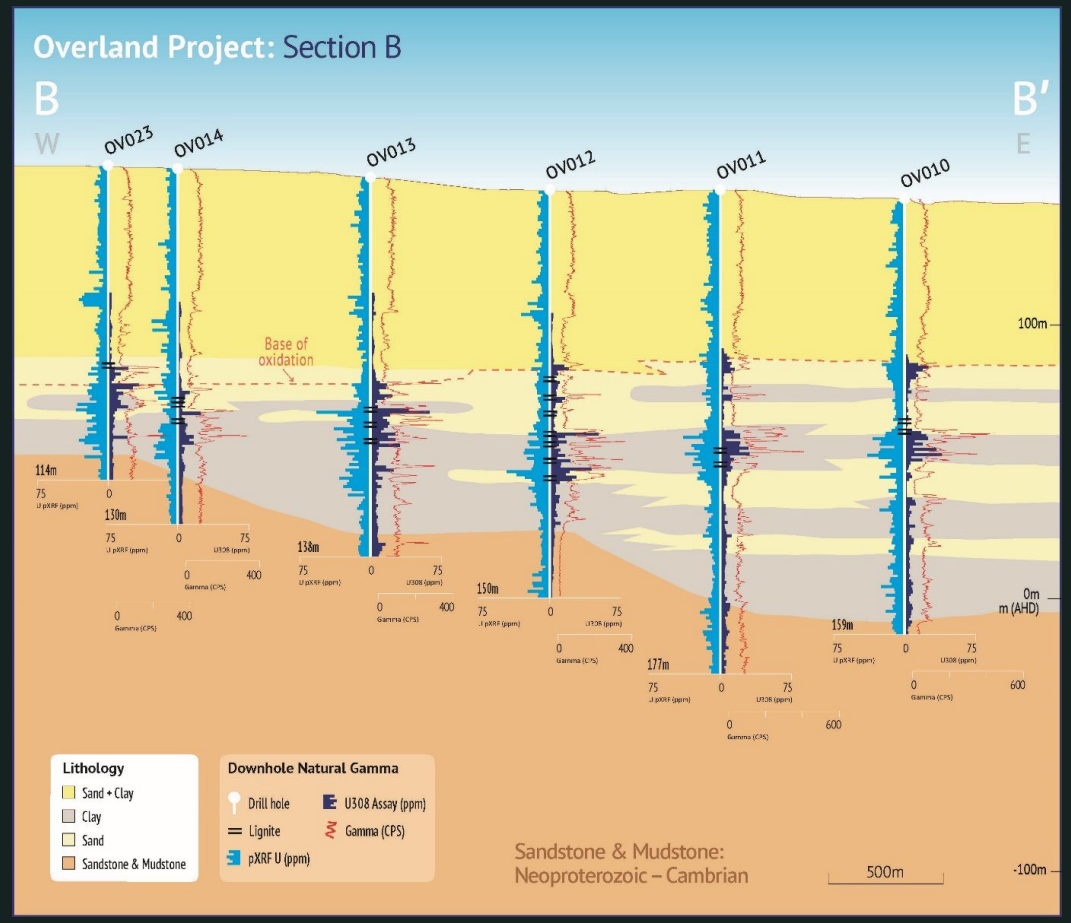


Section Location Plan showing 2024 drillholes with all assays now received (green) and pending assays from 2025 drilling (grey)



Cross section across the western margin of defined palaeovalley

ISR amenable targets:
Compelling evidence supporting AR3's geological model for ISR amenable deposits; connection to uranium rich source rocks, permeable sediments as pathways and hosts, effective reductants acting as traps for uranium precipitation

Overland Project: Discovery of widespread calcrete hosted Uranium

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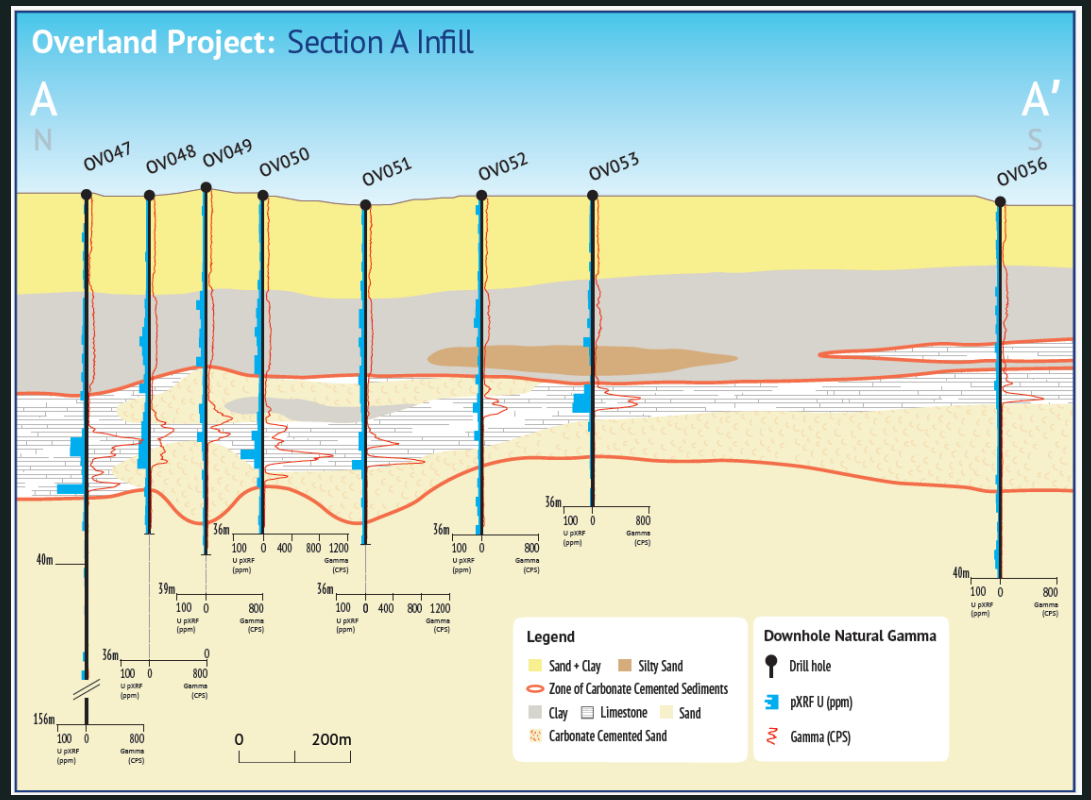
Rig on exploration hole at Overland Project



Cross section across the discovery of widespread calcrete hosted Uranium

Calcrete hosted target:

- Discovery of widespread near surface calcrete hosted uranium mineralisation
- Similar to surficial uranium deposits in Namibia and Australia

- Follow-up drilling has extended mineralisation in all directions with an extensive setting spanning dozens of kilometers of strike length
- 2025 drilling to continue to follow up both near surface, calcrete hosted and deeper ISR amendable deposits

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Team & Corporate Snapshot

Experienced team and strong backing

Angus Barker
Independent Chairman

Over 30 years of professional experience, including at top-tier global investment banks and as a senior adviser to Australian Government Ministers in key economic portfolios.

- Deputy Chair of Vulcan Energy Resources
- Director of WAM Capital

Pauline Carr
Independent Non-executive Director

Experienced company director in compliance, governance and risk over 30 years in resources sector.

- Chancellor of Adelaide University
- Chair of National Pharmacies
- NED Highfield Resources
- Previous roles with Normandy Mining and Newmont

Travis Beinke
Managing Director & CEO

Over 20 years' experience with both Australian and internationally listed resource companies. Broad range of strategic, commercial, finance and business development experience, particularly in exploration and growth projects.

- Previous roles with OZ Minerals, Ensign Energy Services and ExxonMobil Australia

Rick Pobjoy
Chief Technical Officer & Co-Founder of AR3

Geologist with more 25 years' experience in the mining and minerals exploration industry.

- Extensive experience in definition, development, and production from sedimentary hosted deposits.
- Successful project delivery for Uranium and Mineral Sands explorers, developers and producers.

Share price

$0.068

2 May 2025

Market capitalisation

$14.4m

Shares on issue

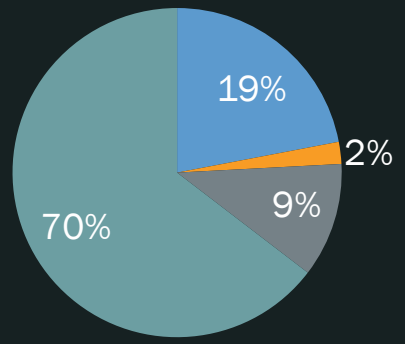
212m

Cash

$7.6m*

31 March 2025

Distribution of shareholders



- Directors, Management & Co-Founders
- NEO Performance Materials
- Acorn Capital
- Other

* Includes $4m as at March 2025 quarter plus $3.6m raised from Rights Issue completed 30 April 2025

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Securing Australia's Energy Transition Metals for a Sustainable Future

Scan the QR code to access our Investor Hub

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