



**Exploring and developing rare earths projects in Australia**

**Plus, high-potential copper-gold exploration in NSW**

Investor Presentation, September 2020 | Jeremy Robinson, Executive Director

 **ASX REE**

The ASX REE logo icon is a black circle containing a white stylized symbol that resembles a vertical bar chart or a series of vertical lines of varying heights.

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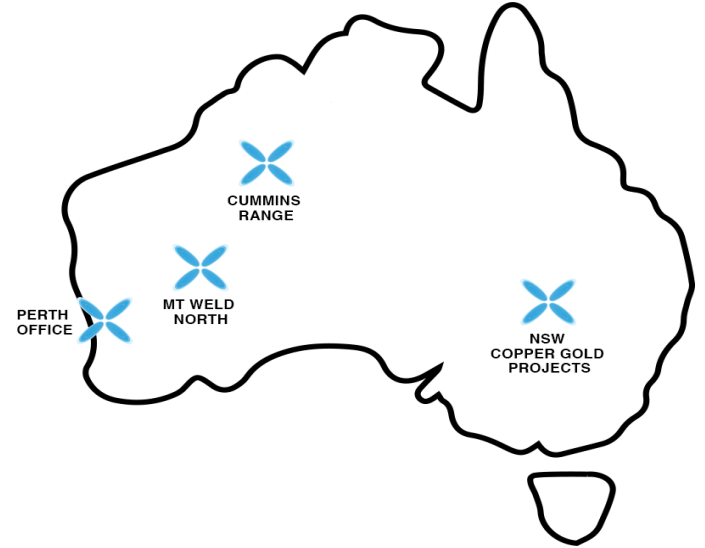
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**Competent Person Statement:** The information in this presentation relating to the Mineral Resource estimate for the Cummins Range Rare Earths Project is extracted from the Company’s ASX announcement entitled ‘*Globally Significant Maiden Resource of 13Mt at 1.13% TREO*’ as updated by the ASX announcement entitled ‘*Update to Mineral Resource Estimate Announcement*’, both released on 15 October 2019. REE confirms that it is not aware of any new information or data that materially affects the information included in the previous announcements and that all material assumptions and technical parameters underpinning the Mineral Resource estimate in the previous announcements continue to apply and have not materially changed.

# Investment Overview

- **Strategically located asset:** 100%-owned Cummins Range Rare Earths Project in Western Australia – Tier-1 mining jurisdiction
- **Significant maiden JORC 2012 Rare Earths Mineral Resource:** Inferred Resource of 13Mt at 1.13% TREO with 22.1% NdPr
- **Drilling program recently completed and awaiting assays**
- **High-quality exposure to Lachlan Fold Belt exploration:** via 35% stake in Trundle Project with Kincora Copper (RareX owns 9.6% of Kincora)
- **Exciting drilling underway:** Assays up to 51m at 1.17g/t Au and 0.54% Cu and funded for additional 17 holes
- **100%-owned Project at Orange East:** 15km along strike from 2Moz McPhillamys Gold Project with strong geological similarities



**A Rare Earth explorer and developer with significant exposure to copper-gold exploration in the world-class Lachlan Fold Belt of NSW**



# Corporate Snapshot



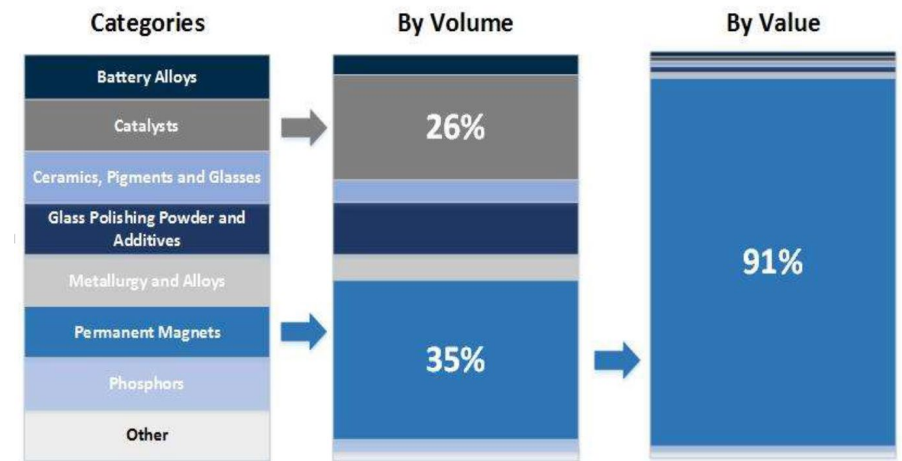
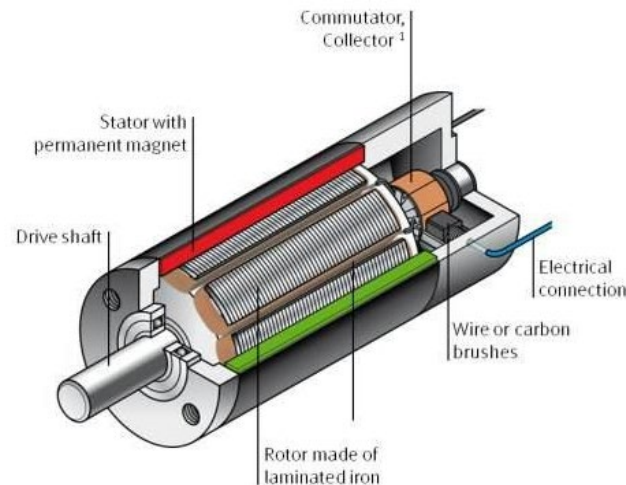
Capital Structure	
ASX Code	REE
Share Price (14 September 2020)	\$0.059
Shares on Issue	356m
Market Capitalisation	\$21.0m
Net Cash	\$3.4m
Listed Investments (14.95m TSXV:KCC)	\$2.6m
Enterprise Value	\$15.0m
Board and Management	
Chairman	John Young
Executive Director	Jeremy Robinson
Non-Executive Director	Shaun Hardcastle
Non-Executive Director	Cameron Henry
Exploration Manager	Guy Moulang
Consultant Metallurgist	Gavin Beer
Consultant Geophysicist	Jayson Meyers

Shareholders	
Top 20 Shareholders	40%
Number of Shareholders	1,873



# Rare Earths

- Rare Earths are a group of 17 elements essential to the new world economy – grouped in to Light Rare Earth Elements (**LREE**) and Heavy Rare Earth Elements (**HREE**)
- RareX is focused on the production of LREE's Neodymium-Praseodymium (**NdPr**) which are critical to the manufacture of Neodymium-Iron-Boron (**NdFeB**) Rare Earth Permanent Magnets (**REPM**) which contain approximately 32% NdPr.



Source: Adamas Intelligence

# Rare Earth Permanent Magnets (REPMs)

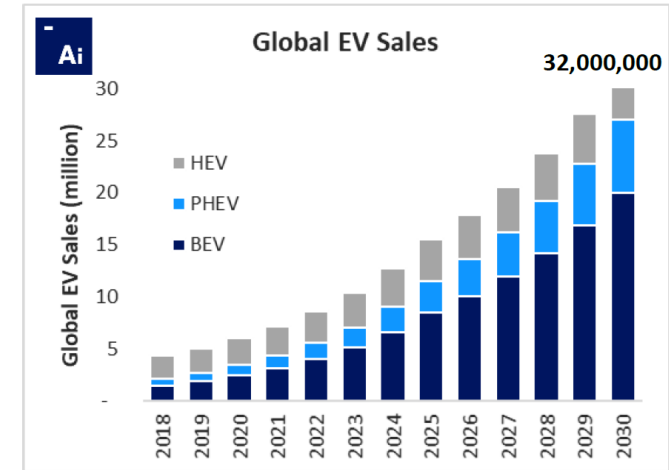


## Electric Vehicles

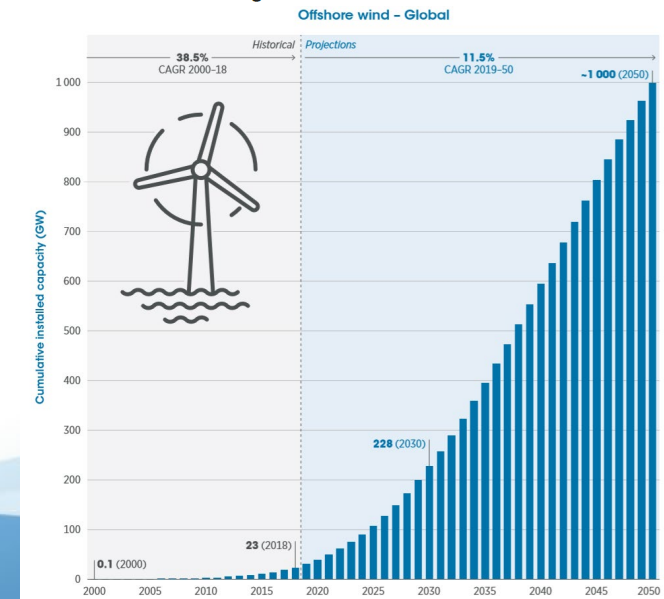
- Whatever the type of EV (BEV, HEV PHEV) or the power source (Li Batteries, H Fuel Cells etc) they all use REPM motors.
- Each EV requires approximately 1kg to 2kg of REPM which is used in rare earth magnets forming part of an EVs electric motors. EVs expected to grow from 3m to 35m by 2030.

## Wind Turbines

- Wind power and Solar power set to dominate the renewable energy economy as cost effective mass deployable technologies.
- Wind power historically dominated by onshore capacity now increasingly moving to offshore capacity as turbines become larger and more efficient. Offshore has greater use of REPM's compared to onshore.
- Each MW of direct drive REPM wind turbine capacity contains 600kg of REPM containing 200kg of NdPr.

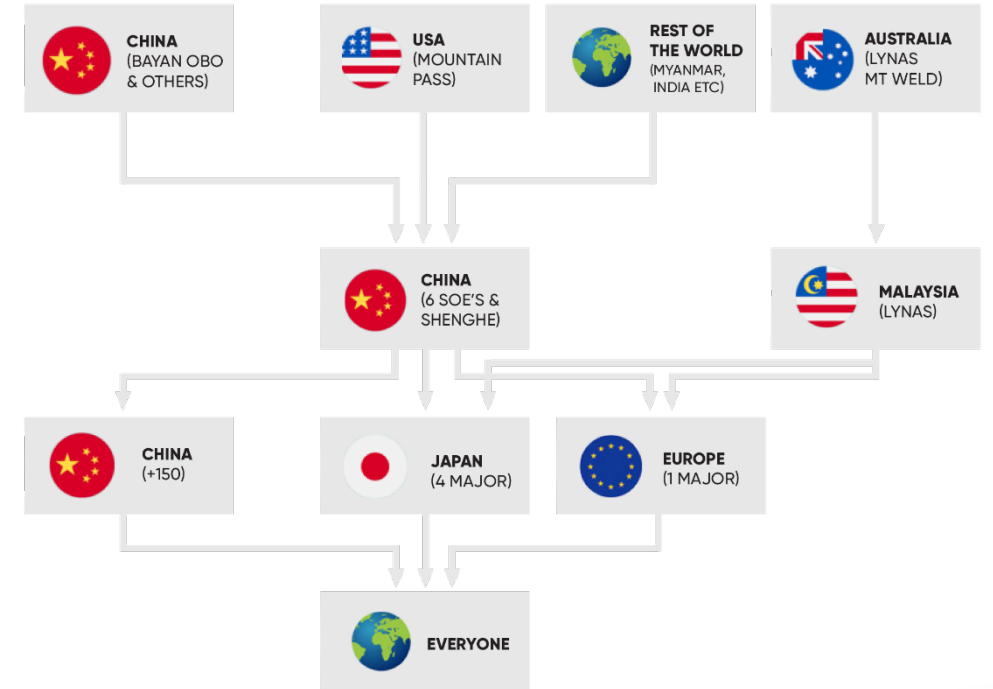


Source: Adamas Intelligence



# Rare Earths Market

- China dominates production of rare earths and rare earth magnets accounting for 80% of global production representing a strategic weakness for the United States of America.
- China has recently become significant importer of Rare Earths concentrates for processing – In 2019 China supply dropped to only 61% (essentially 100% 2015) following ongoing crackdown on illegal supply.
- Rare earth prices extremely sensitive to trade disputes such as in 2011 when NdPr traded above US\$280/kg (600% above current prices).

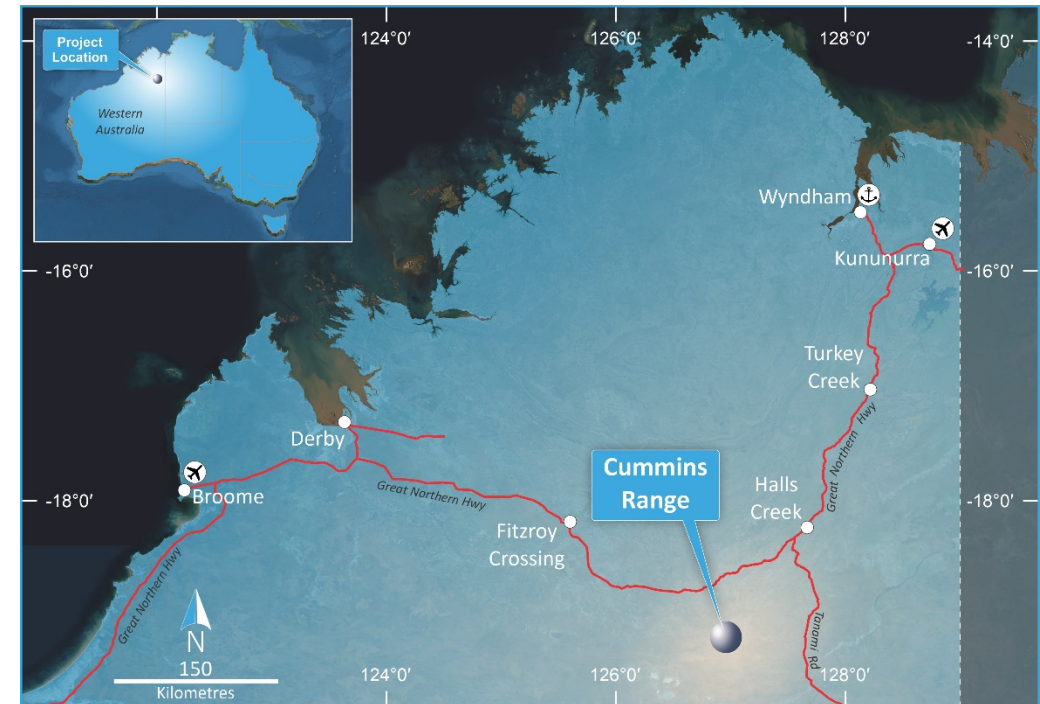


# Cummins Range Rare Earths Project



- **Tier-1 mining jurisdiction:** Located in the Kimberley region of Western Australia
- **Airstrip and township nearby:** 130km from Halls Creek Township and Airstrip.
- **Good access:** Accessible via Great Northern Highway, Tanami Track and pastoral tracks.
- **Established mining district:** Located near Northern Minerals' Browns Range Rare Earth Mine and Pantoro's Nicholson's Gold Mine
- **Port Facilities:** Potential access to Wyndham and Darwin Ports

**Advanced, high-quality Rare Earths Project located in a Tier-1 mining jurisdiction**





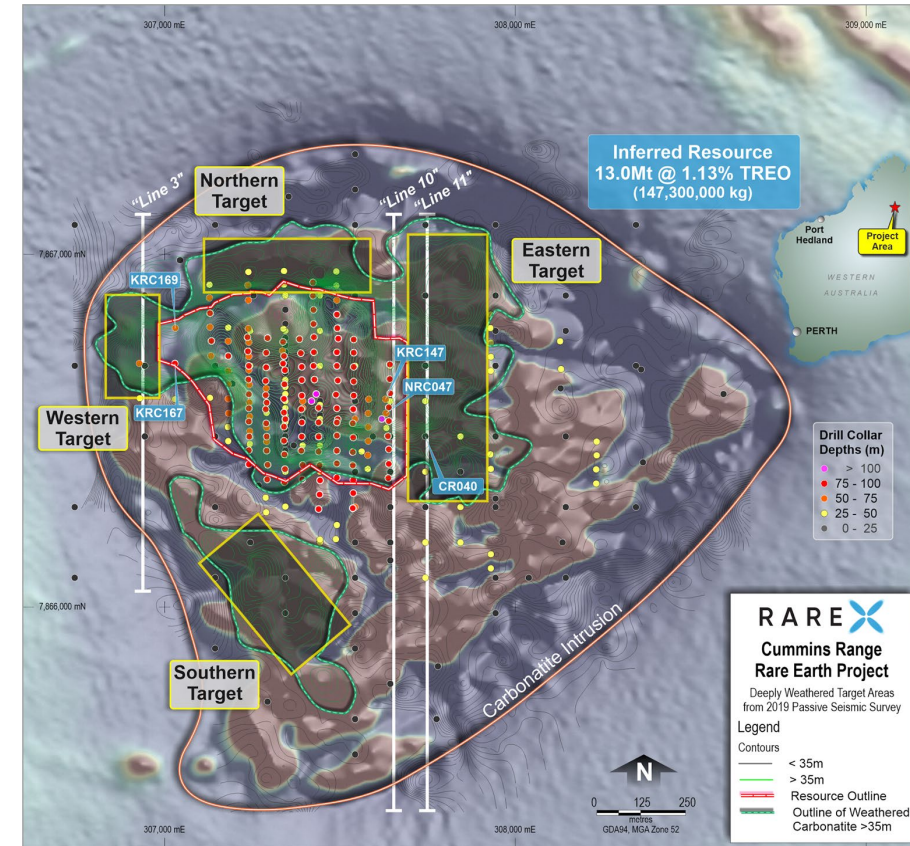
# Substantial Maiden JORC 2012 Resource



- Significant maiden JORC 2012 Inferred Resource of **13Mt at 1.13% TREO** released 15 October 2019
- Neodymium and Praseodymium “**NdPr**” **content of 22.1%** and ultra low thorium of 50ppm ThO2 equals premium product
- **Weathered carbonatite** with REE mineralisation mostly hosted within laterite horizon (same at Mt Weld)
- **Deposit outcrops** and has dimensions amenable to **low strip ratio open pit mining**
- **Recently completed 6,143m of drilling** and awaiting assays

## Cummins Range Inferred Mineral JORC 2012 Resource

Tonnes (Mt)	Grade (TREO)	TREO (kg)
13.0	1.13%	147,300,000



# Low Capital Strategy

- Rare Earth mineralogy dominated by monazite – the most well understood Rare Earth Mineral from a processing perspective
- RareX is working with industry experts to review test work and plan further optimisation to improve un-optimised concentrate grade and recoveries
- Strategy is to produce a saleable monazite concentrate to sell on an FOB / CIF basis to China – Working with Talaxis Group (subsidiary of Noble Group)
- This approach will significantly reduce CAPEX

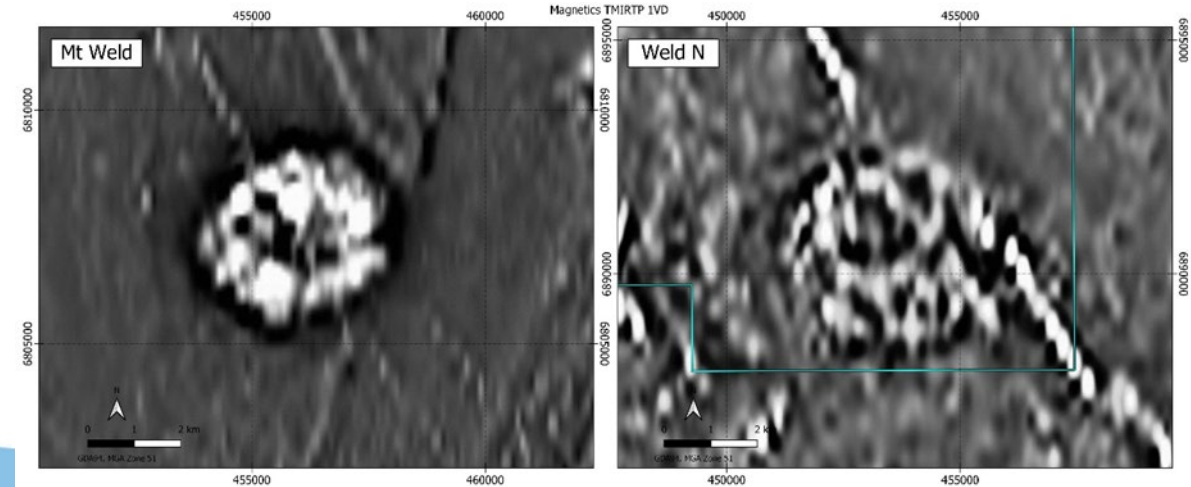
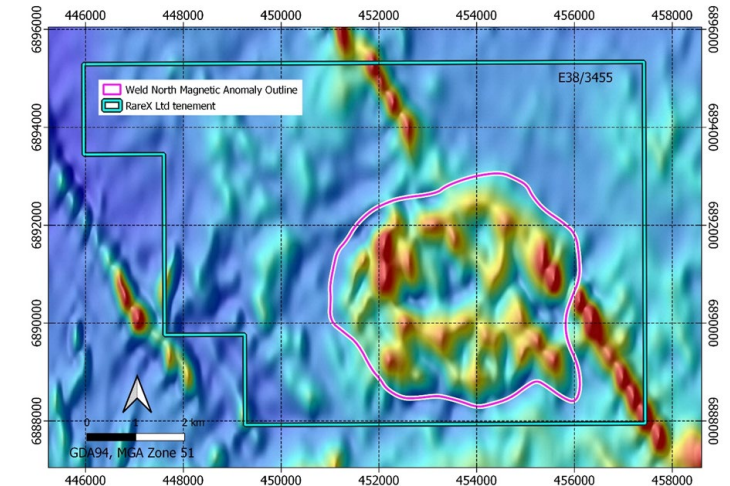
**RareX has a low CAPEX development strategy for Cummins Range, based on production of a monazite concentrate**

## SIMPLIFIED FLOWSHEET



# Exploration – Weld North

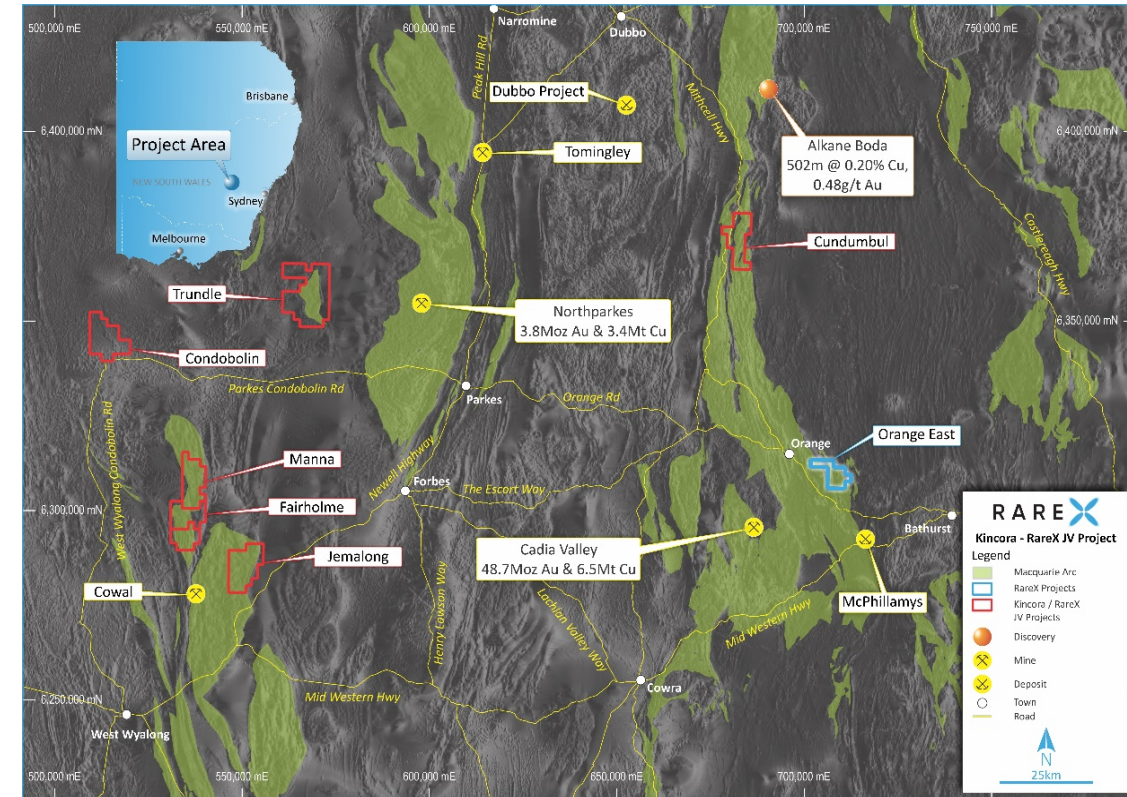
- Tenement recently granted and Programme of Work “PoW” lodged with DMIRS – Expecting to be on the ground in October
- Contains a 5km wide airborne magnetic circular anomaly which RareX considers to be prospective for being caused by an REE-bearing circular carbonatite intrusive complex
- Sits below regolith cover which masks the buried bedrock source for this magnetic anomaly
- Part of Greenfields exploration strategy to discover another world-class rare-earth carbonatite deposit in Australia



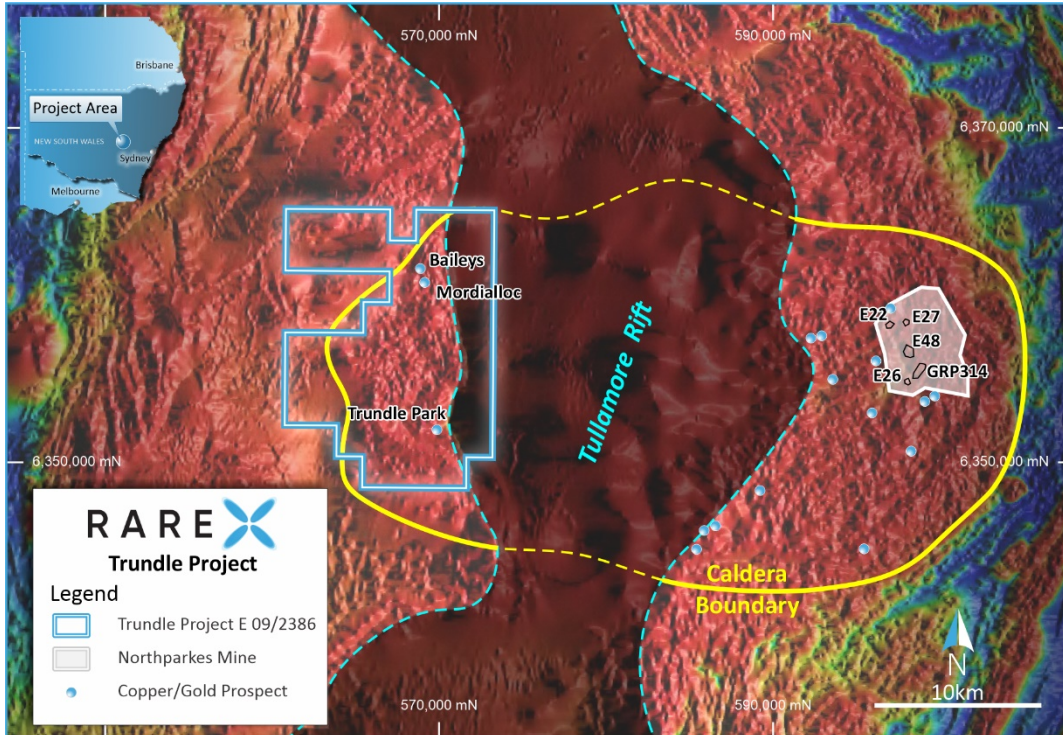
# NSW Copper-Gold Assets



- **RareX retains a 35% free-carried interest** multiple projects and owns 7.2% of TSXV-listed Kincora Copper
- Kincora is currently completing successful 3,800m drill program at flagship Trundle project comprising six deep holes with **assays up to 51m at 1.17g/t Au and 0.54% Cu**
- Kincora recently raised C\$5.3m capital **raise to fund 17 hole program at Trundle**
- Kincora exploration led by **John Holliday, principal discoverer of the world-class Cadia deposit**
- RareX recently retained **100% ownership of Orange East Project**



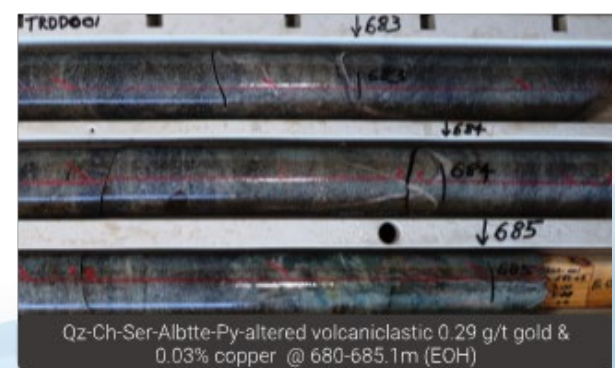
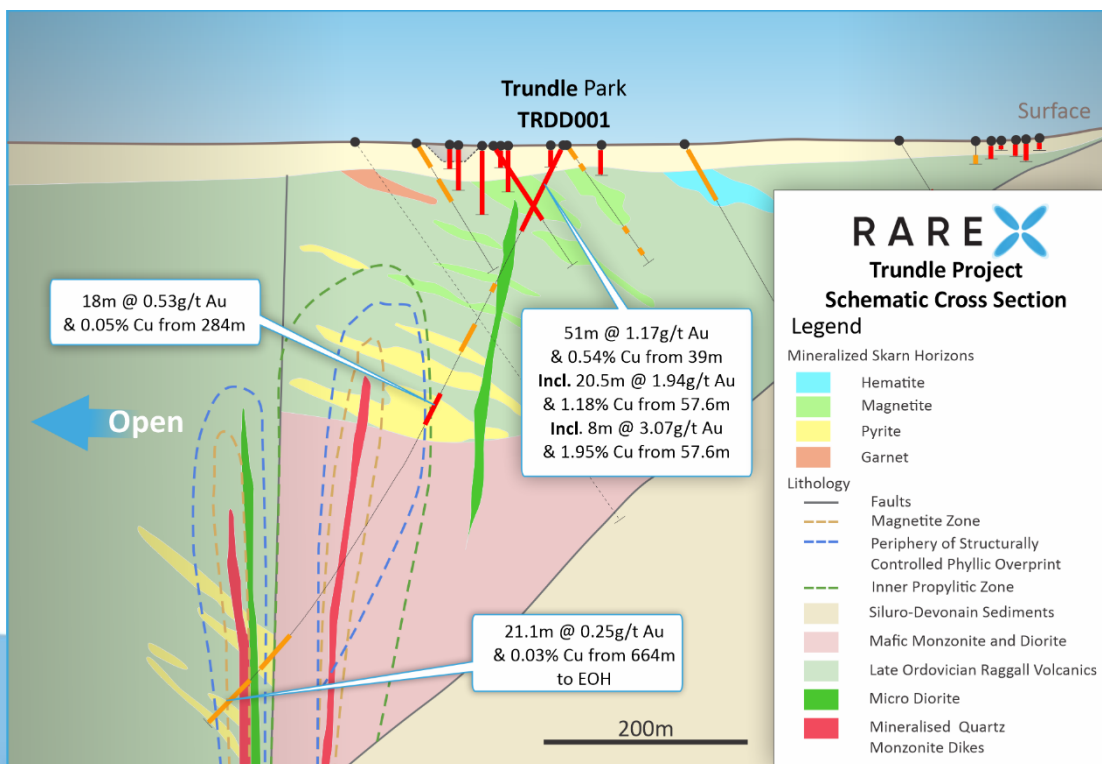
# Trundle Project – 35% Free-Carried



- The only brownfield porphyry project held by listed juniors in the Macquarie Arc
- Trundle is the western section of the Northparkes intrusive complex, that hosts the second largest porphyry mine in Australia
- Exploration being driven by highly experienced team at Kincora Copper Limited led by John Holliday
- Confirmed similar geological settings/controls as Cadia and Northparkes, Australia's largest and second largest porphyry mines
- Seeking to discover a cluster of new porphyry deposits

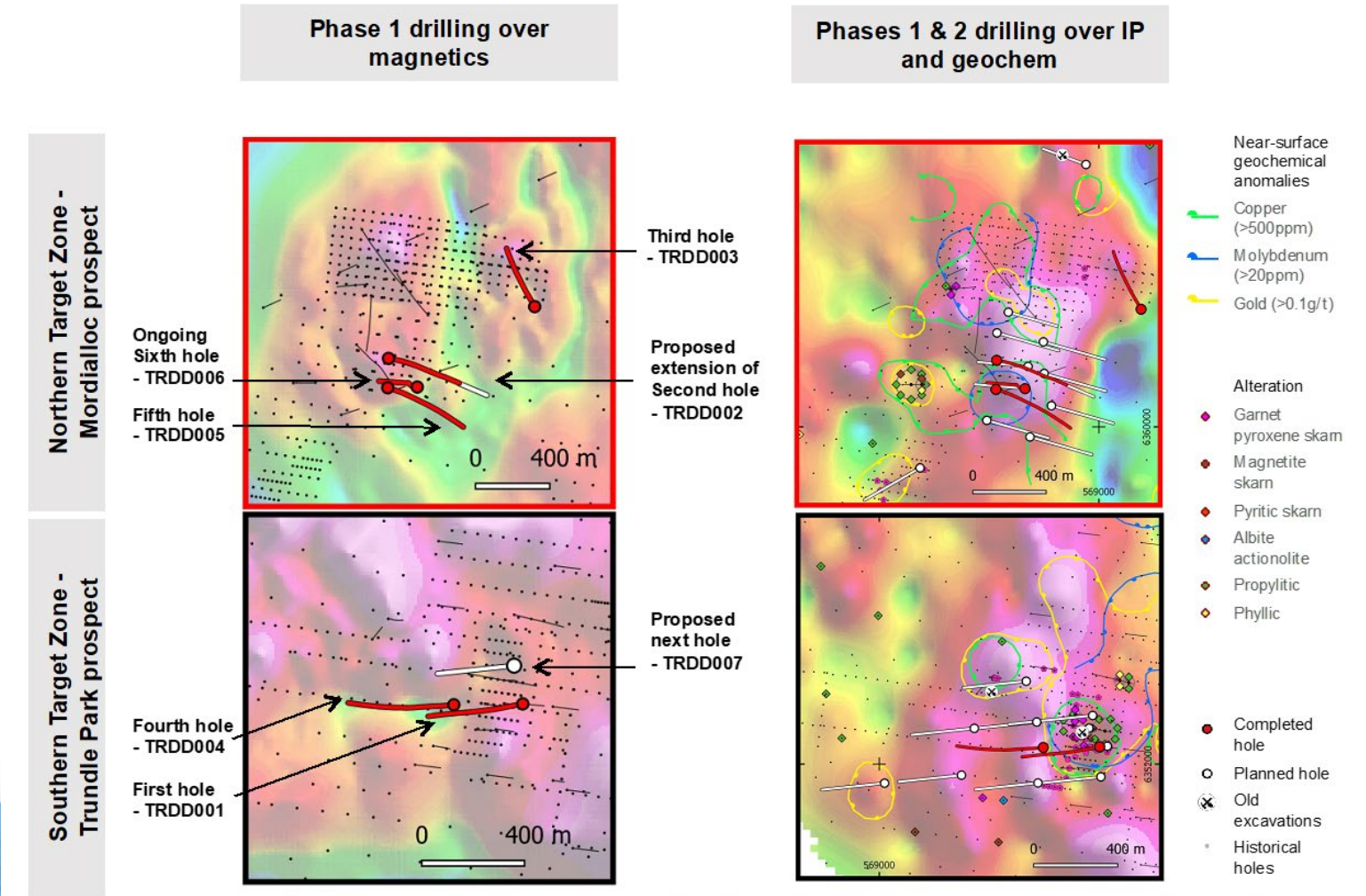
# Trundle Project – Trundle Park Target

- **51m at 1.17g/t Gold and 0.54% Copper** from 39m in skarn at Trundle Park
- Similar in style to the Big Cadia skarn that is peripheral to the Cadia porphyry copper-gold deposits
- Highly encouraging **21.5m at 0.25g/t Gold and 0.03% Copper to EOH** in lower porphyry zone



# Trundle Project – Further Drilling

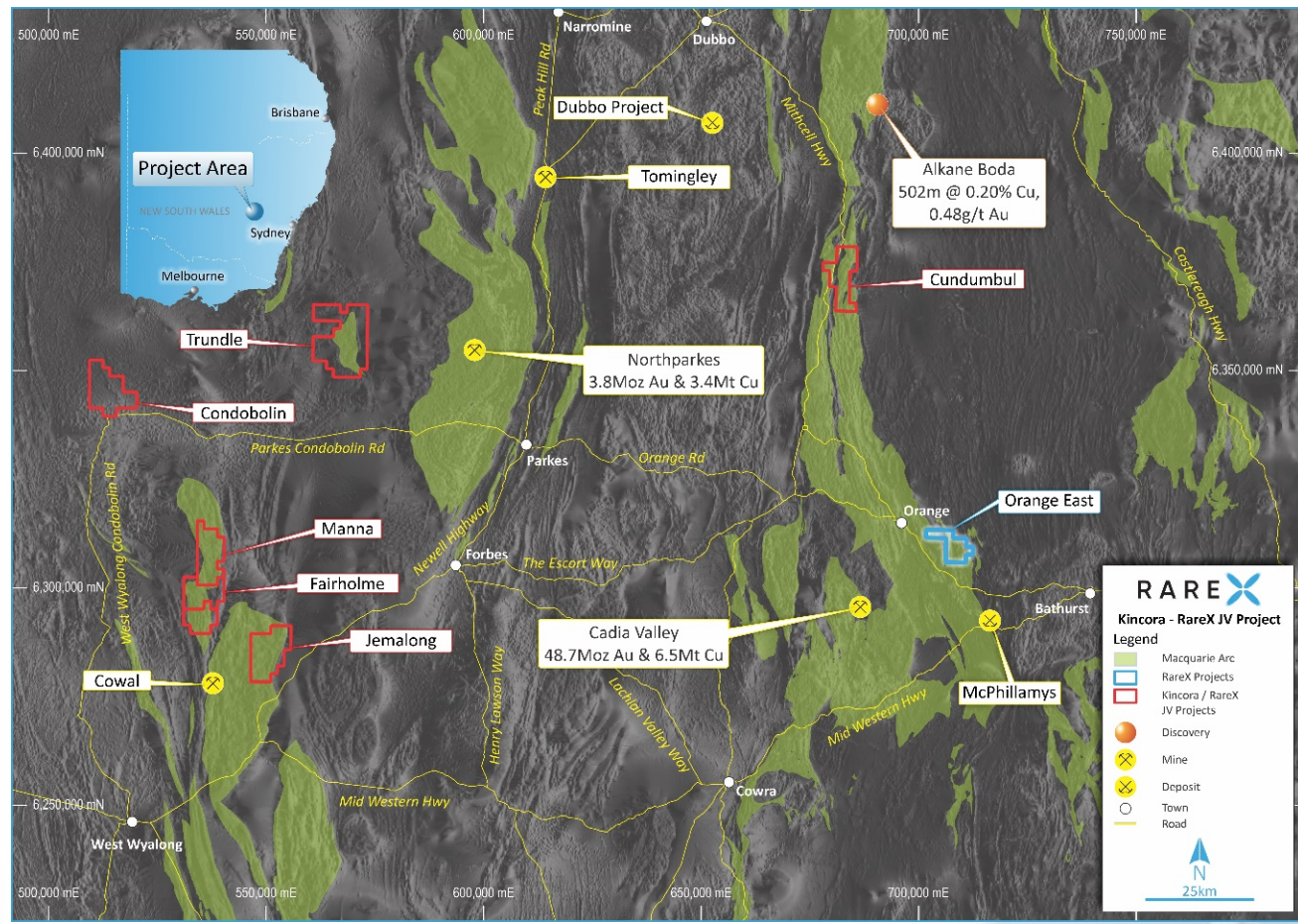
- Drilling to date has confirmed mineralized porphyry intrusion systems
- Confirmed better widths, alteration and mineralization than previous drilling at the Trundle project
- Following recent capital raise by Kincoora it is fully funded for additional
  - 9 Holes at Mordiolloc
  - 8 hole at Trundle Park
- Expecting 2<sup>nd</sup> rig to mobilize to site soon



LHS: Magnetic Vector Amplitude (MVA), removes remanent magnetization effects, providing more accurate interpretations, analysis & targeting.  
 RHS: Typhoon Induced Polarization (IP) survey chargeability

# Other Free-Carried NSW Projects

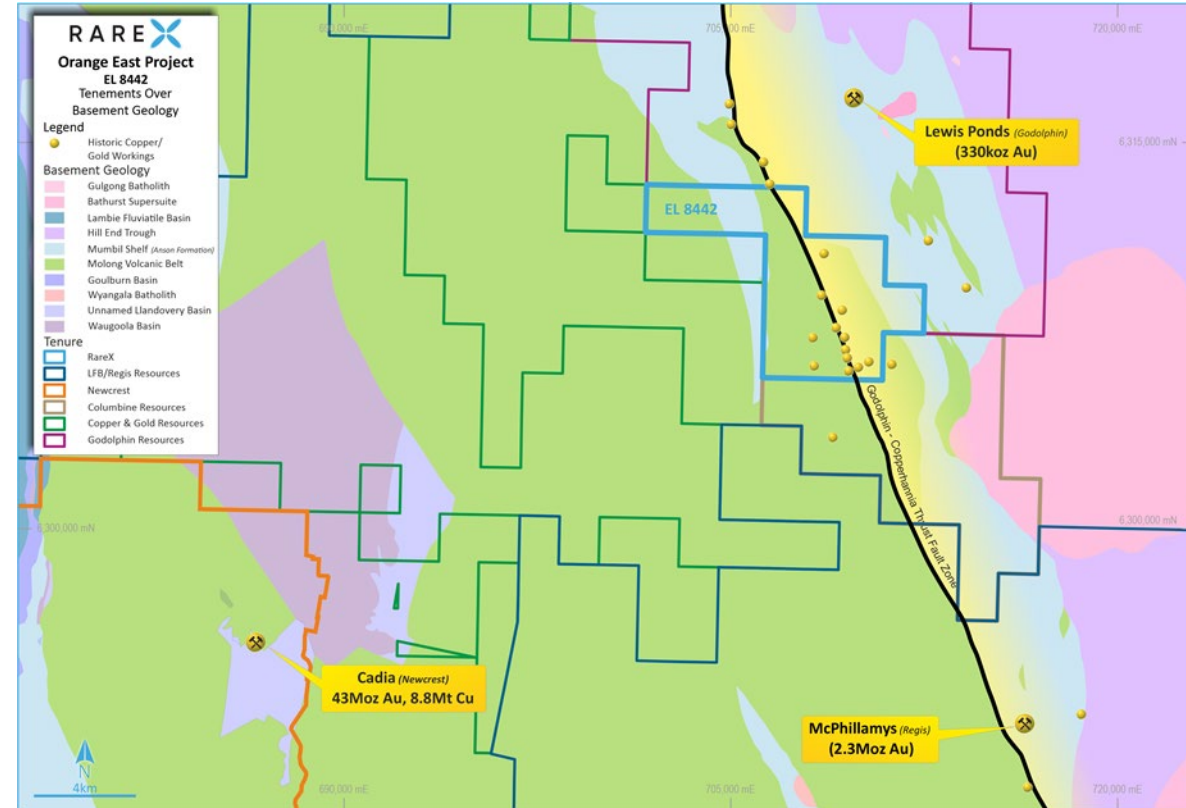
- Highly prospective for new undercover discoveries
- Fairholme and Jemalong, located near Evolutions Cowl Gold Mine:
- Condobolin – Prospective for VHMS style Base Metal and Gold Deposits
- Cundumbul – located south of exciting new Boda Discovery





# Orange East – 100% Owned

- Located ~15km along strike from Regis Resources' 2Moz McPhillamys Gold Deposit
- Strong geological and geochemical similarities to McPhillamy's including:
  - ✓ Both hosted in the Silurian volcanoclastic rocks of the Anson Formation adjacent to the GCFZ;
  - ✓ Both have coincident Au-As-Ba-Bi-Pb-Cu-Mo-Te surface anomalies, with the Gunnarbee geochemical anomaly extending over an area ~1,000m north-south by 200m east-west
  - ✓ Both have K radiometric high anomalies
- Gunnarbee Prospect never drilled



Currently reviewing project data before planning next steps

# Key Investment Takeaways

- ✓ High-quality, advanced Rare Earth Project in WA
- ✓ Recently completed major drilling program and awaiting assays
- ✓ Building a portfolio of high-quality Rare Earth assets
- ✓ Significant exposure to NSW porphyry copper-gold exploration
- ✓ 100%-owned NSW gold exploration project in Tier-1 address

With a \$21.0m market capitalisation, strongly leveraged to exploration success and growth on two fronts



# RARE

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