

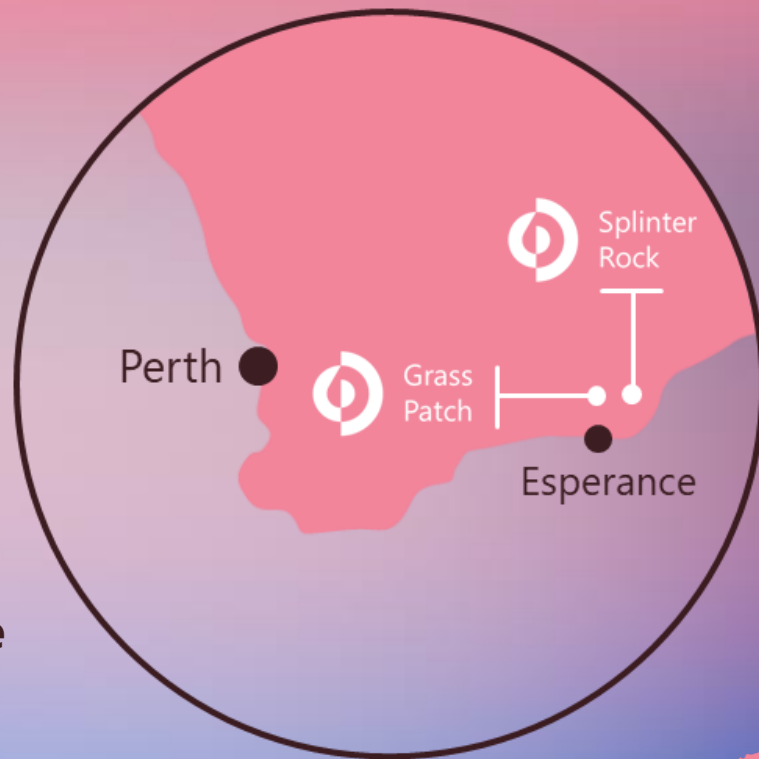


# Australian Critical Rare Earth Minerals

**2022 South-West Connect ASX Showcase**

**20 October 2022**

**ASX | OD6**



# Important Information



## Disclaimer

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- are necessarily based upon several estimates and assumptions that, while considered reasonable by OD6, are inherently subject to significant technical, business, economic, competitive, political and social uncertainties and contingencies; and
- involve known and unknown risks and uncertainties that could cause actual events or results to differ materially from estimated or anticipated events or results reflected in such forward-looking statements.

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No representation is made that, in relation to the tenements the subject of this presentation, OD6 has now or will at any time in the future develop further resources or reserves within the meaning of the Australian Code for Reporting of Exploration Results, Mineral resources and Ore Reserves (**The JORC Code**).

## Competent Person Statement

The information contained in this presentation that relates to exploration results is based on and fairly represents information and supporting documentation prepared Mr Jeremy Peters, Director of Burnt Shirt Pty Ltd. Mr Peters is a Fellow of the Australasian Institute of Mining and Metallurgy and a Chartered Professional Geologist and Mining Engineer of that organisation. Mr Peters has sufficient experience relevant to the style of mineralisation and type of deposits under consideration, and to the activity which he has undertaken to qualify as a Competent Person as defined in the JORC Code. Mr Peters consents to the inclusion of the matters based on his information in the form and context in which the exploration results and supporting information are presented in this presentation.

## No New Information

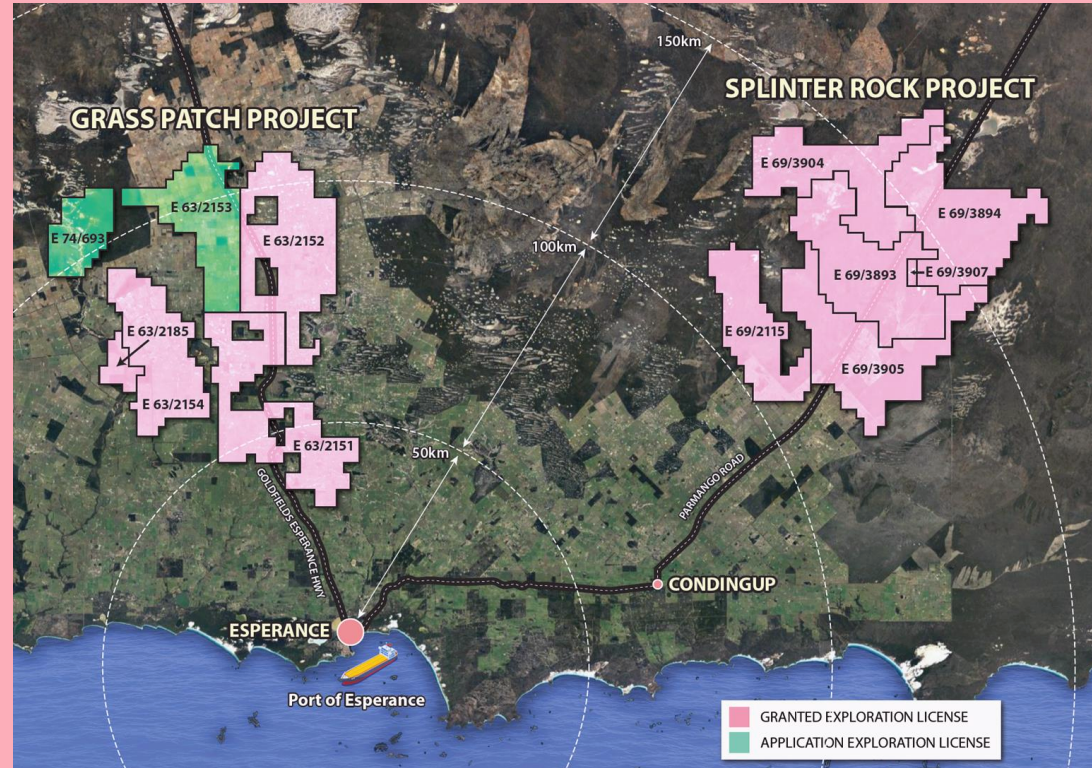
This document contains information extracted from ASX market announcements reported in accordance with the 2012 edition of the "Australasian Code for Reporting of Exploration Results, Mineral Resources and Ore Reserves" (2012 JORC Code) and available for viewing at <https://www.od6metals.com.au/investors/asx-announcements/>. OD6 confirms that it is not aware of any new information or data that materially affects the information included in any original ASX market announcement.

# Massive Landholding

Substantial 4,828 km<sup>2</sup>  
tenement package of **Clay  
Hosted Rare Earth** Projects

Close to **existing port,  
sealed roads** and essential  
infrastructure

Excellent concentrations of  
**neodymium (Nd) and  
praseodymium (Pr)**, which  
are essential elements needed  
for the green economy



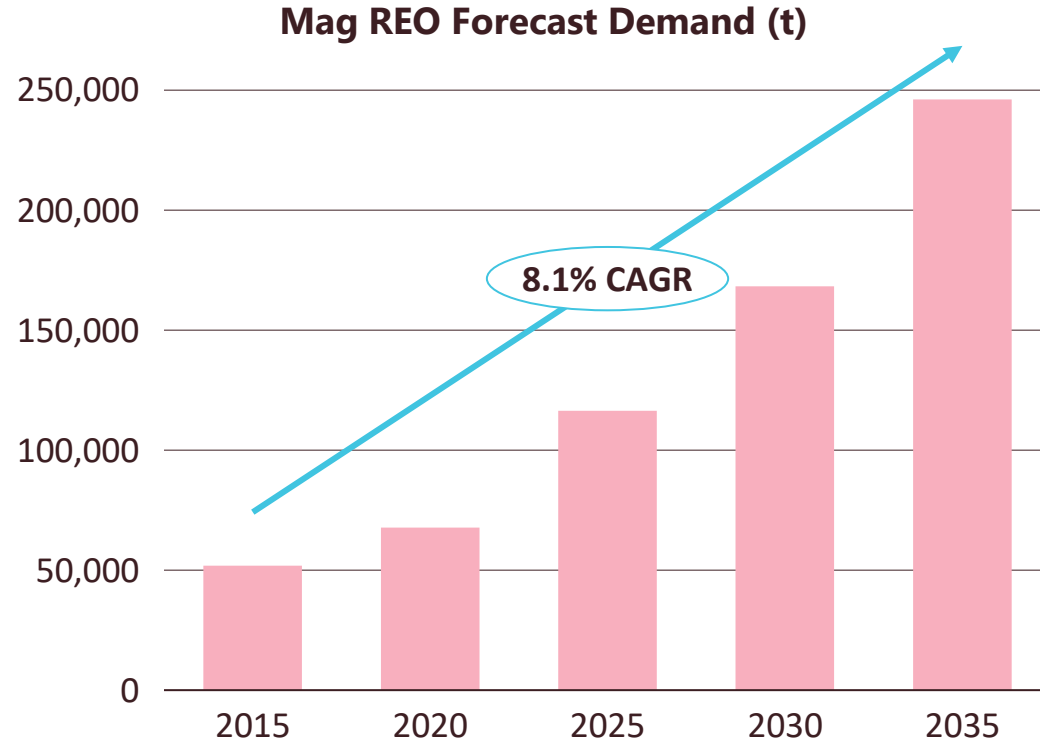
# Insatiable Demand for Rare Earth Magnets

Transition from carbon to renewable economy is creating a forecast **explosion in demand for critical rare earth magnet metal oxides**

Compound annual growth rate of 8.1% for Mag REO

Mag REO (Magnetic Rare Earth Oxide) =  $\text{Pr}_6\text{O}_{11} + \text{Nd}_2\text{O}_3 + \text{Tb}_4\text{O}_7 + \text{Dy}_2\text{O}_3$

Source: Adamas Intelligence, June 2022



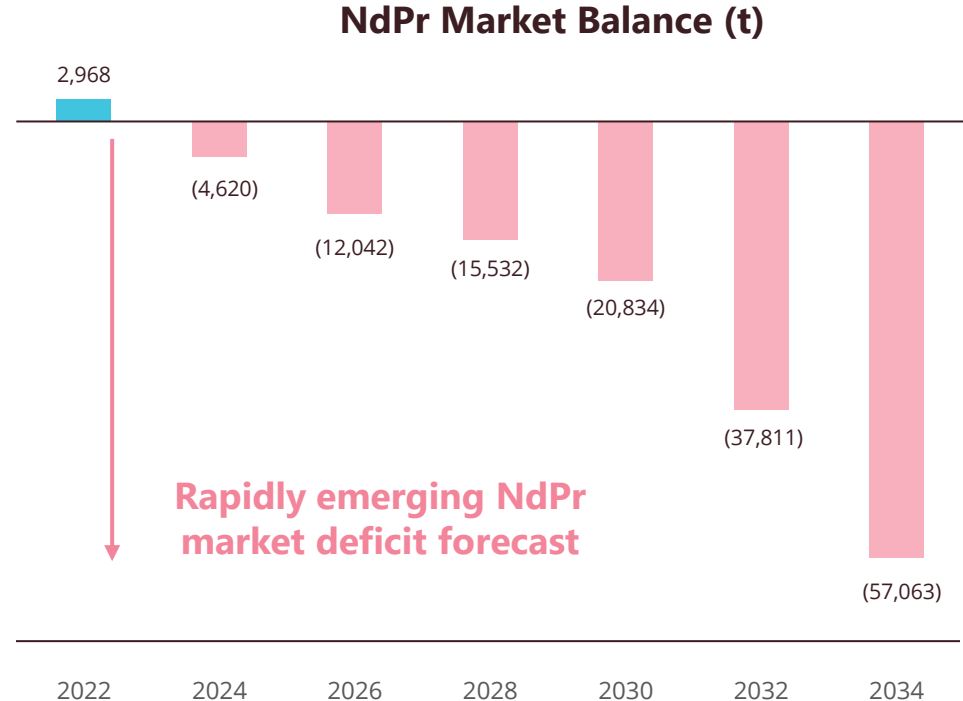
# Growing NdPr Rare Earth Supply Deficit

Analysts expect significant NdPr supply deficits as demand grows

**Demand underpinned by growth from EVs, wind power and consumer electronics**

**NdPr** = Two of the critical rare earth elements Neodymium (Nd) and Praseodymium (Pr), which are used to make permanent magnets in electric vehicles, electricity generators (wind turbines) and consumer electronics. They represent the major value and revenue sources from Rare Earth Element production.

**Source:** Adamas Intelligence, June 2022



# New Australian Supply Needed

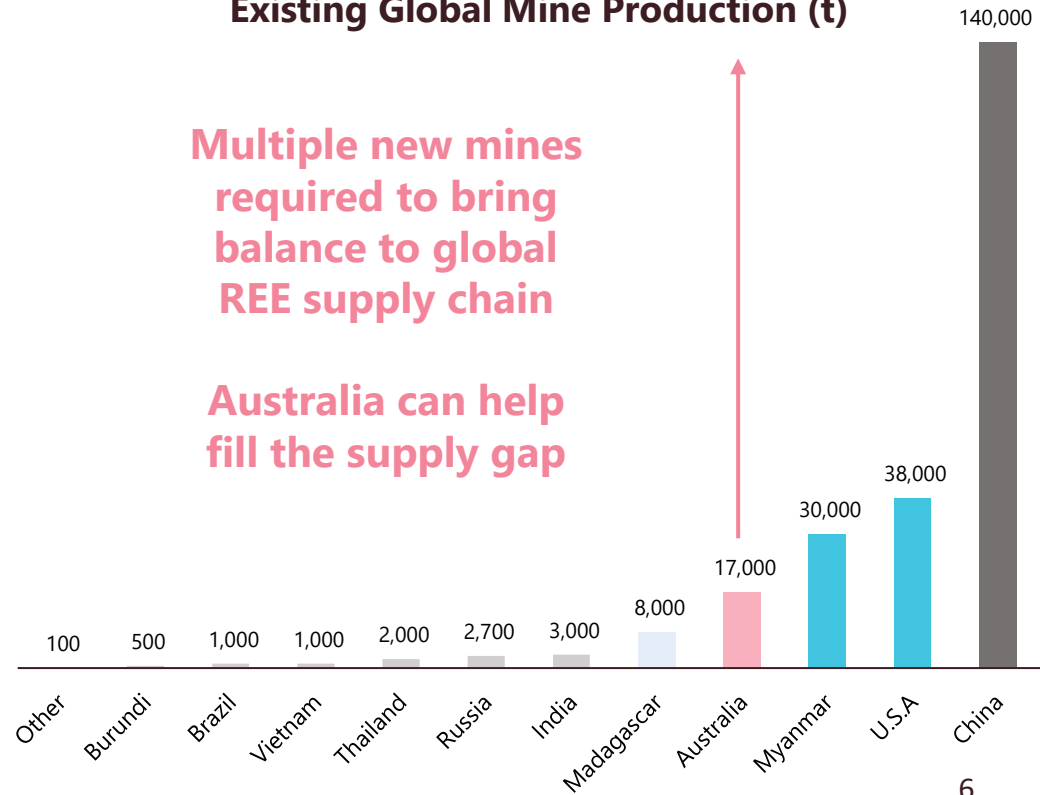
Mine concentration is a significant risk to the global supply chain

Diversity of supply now a priority for governments and corporations with Australia well placed to provide additional capacity

## Existing Global Mine Production (t)

Multiple new mines required to bring balance to global REE supply chain

Australia can help fill the supply gap





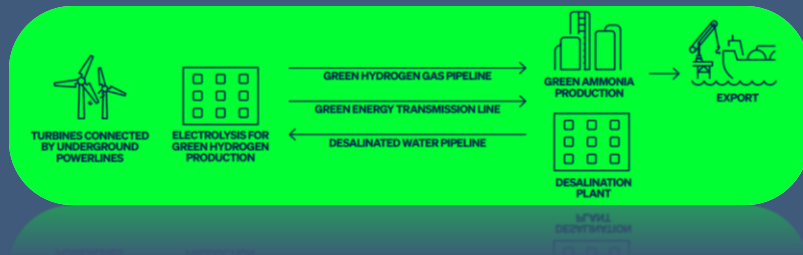
# Low Carbon Rare Earth Production Potential

The urgency to lower global emissions is driving a rapid ramp up in demand for green energy globally

Esperance earmarked as a potential location for a major renewable energy and hydrogen hub

**Using wind, solar + green hydrogen  
= Potential Green Rare Earth**

Fortescue Future Industries assessing South East Western Australia (Esperance Region) as a priority location for development of a green hydrogen hub<sup>1</sup>



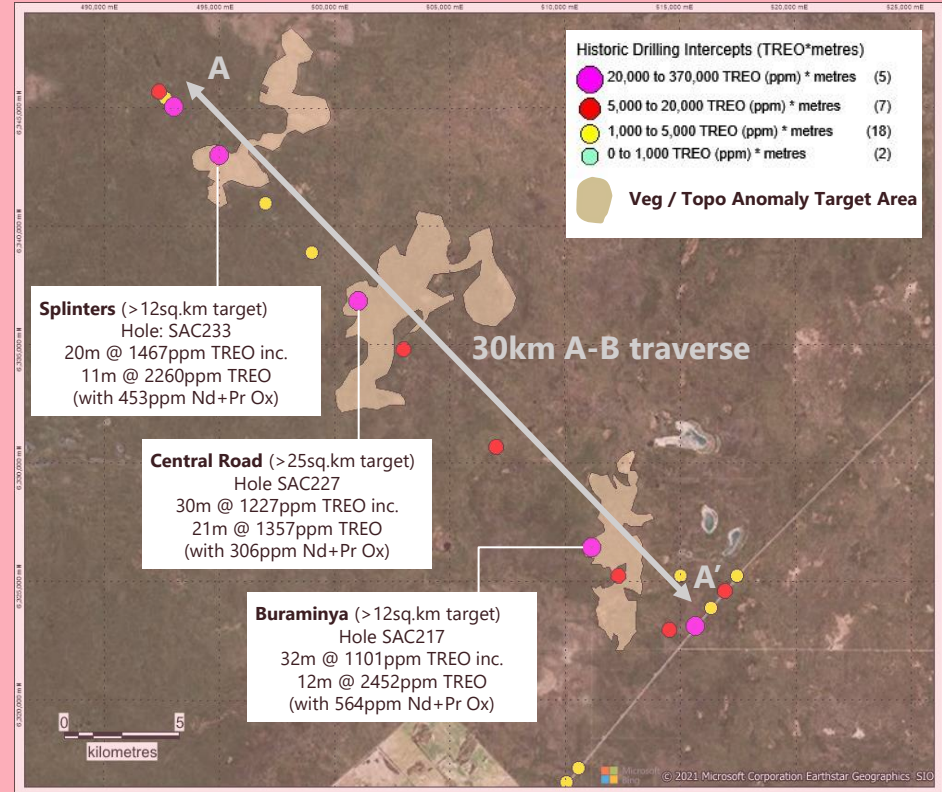
Six granted exploration licenses spanning 2,579km<sup>2</sup>

Historic **high grade TREO drill intercepts** across a 30km drilling traverse

The target area at Splinter Rock covers over 30 x 60km, **making this one of the largest known clay REE target areas in Australia**

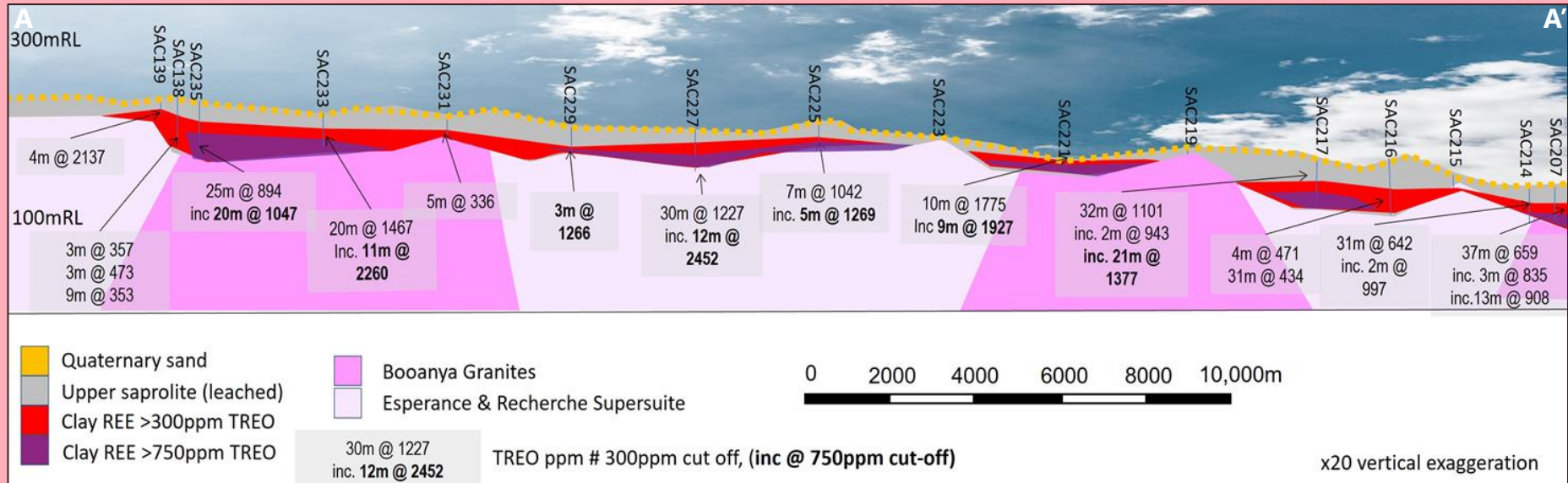
**TREO (Total Rare Earth Oxide)** =  $\text{La}_2\text{O}_3 + \text{CeO}_2 + \text{Pr}_6\text{O}_{11} + \text{Nd}_2\text{O}_3 + \text{Sm}_2\text{O}_3 + \text{Eu}_2\text{O}_3 + \text{Gd}_2\text{O}_3 + \text{Tb}_4\text{O}_7 + \text{Dy}_2\text{O}_3 + \text{Ho}_2\text{O}_3 + \text{Er}_2\text{O}_3 + \text{Tm}_2\text{O}_3 + \text{Yb}_2\text{O}_3 + \text{Lu}_2\text{O}_3 + \text{Y}_2\text{O}_3$

Refer to Independent Geological Report in the Company Prospectus for further information, (ASX announcement "Prospectus" 20 June 2022).





Intersections up to **37m in thickness** over the historic drilling traverse **close to surface**  
**NdPr oxides make up over 20%** of the total TREO basket in higher grade zones

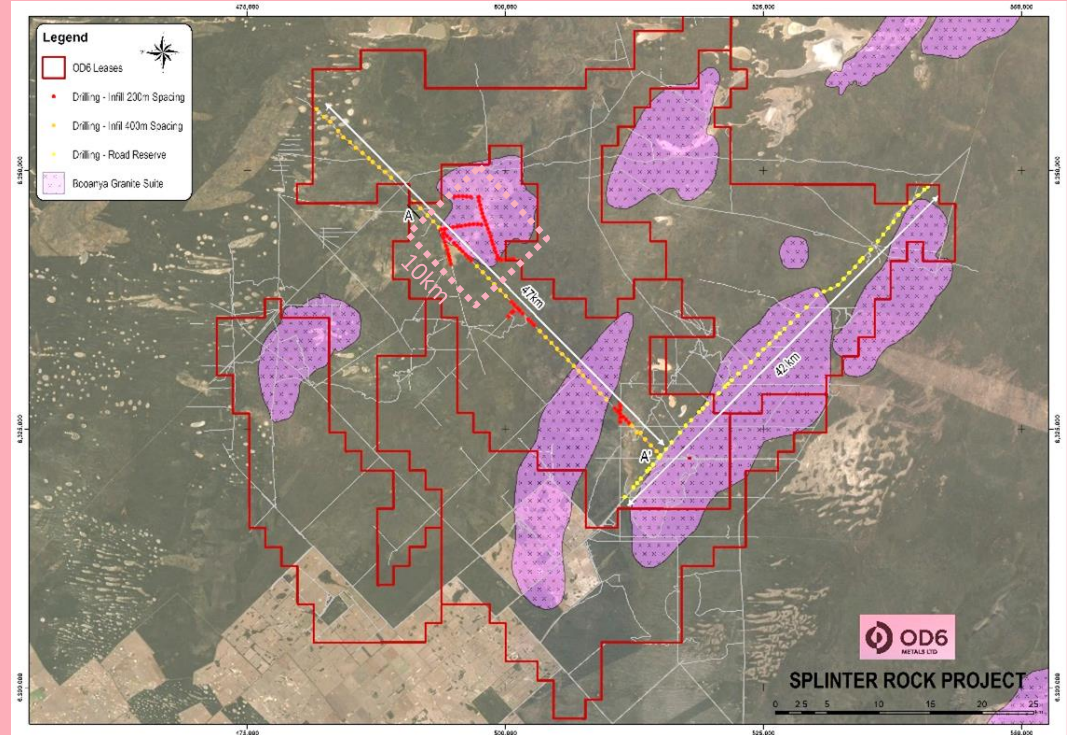


The clay rare earth mineral enrichment is considered to be formed from weathering of the granites in the area

Initial 192-hole AC drilling program completed

**Extensive clays encountered across 100km of drill lines**

**Assay results to be received through Q4 2022**



# Airborne Electromagnetics – Clay Mapping

Airborne geophysics survey across Splinter Rock and Grass Patch to be completed during October 2022

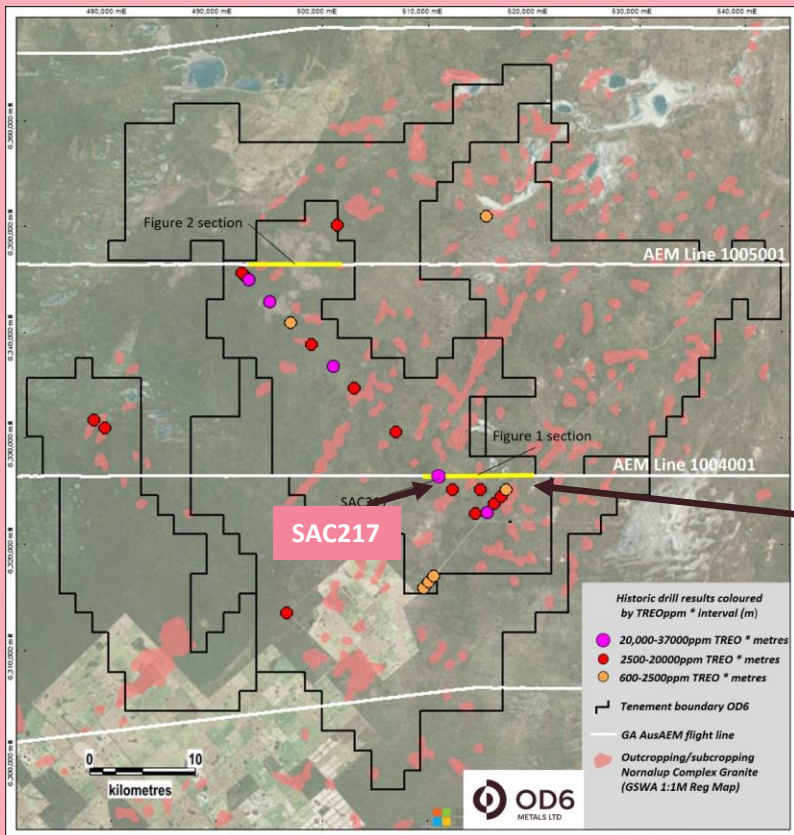
**Aiming to identify and map clay locations, expanse, depth and thickness across all granted OD6 Tenements**

Analysis of data to be completed during Q4 2022



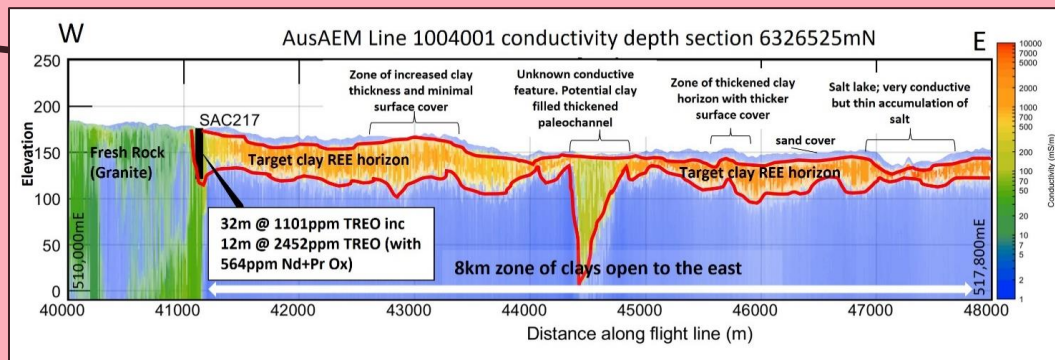


# Initial Clay Mapping Success at Splinter Rock



CSIRO and OD6 Metals are collaborating on techniques to improve rare earth exploration

- Identified clays of 10-50m in thickness
- Clays zones of multiple kms in length
- Enables future targeted drilling of shallow, thick clay horizons

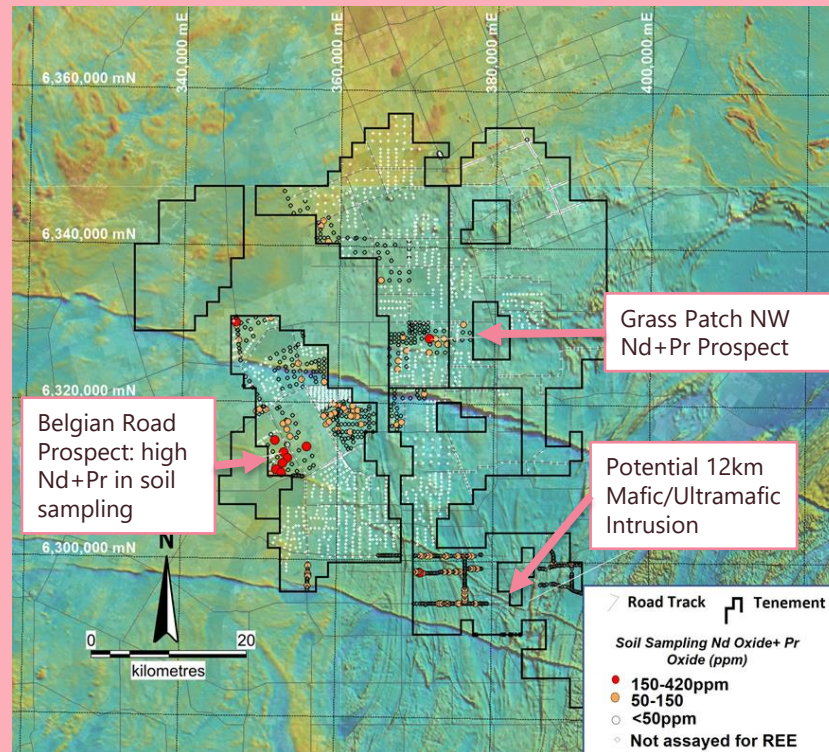




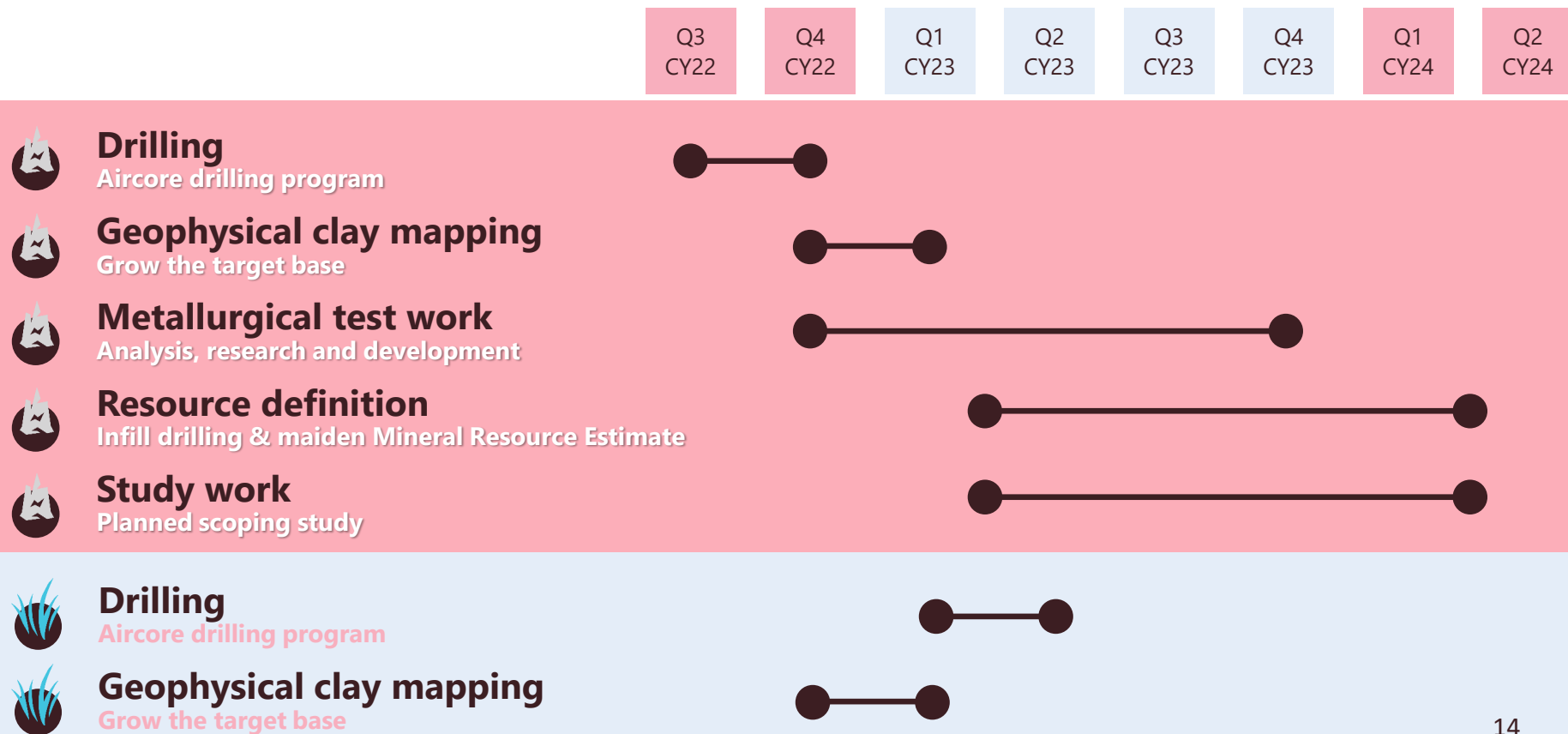
Four granted exploration licenses and two applications spanning over 2,248km<sup>2</sup>

**Soil geochemistry and water bore anomalies indicate high level of prospectivity for REE**

Three key exploration priority areas identified by OD6 Metals

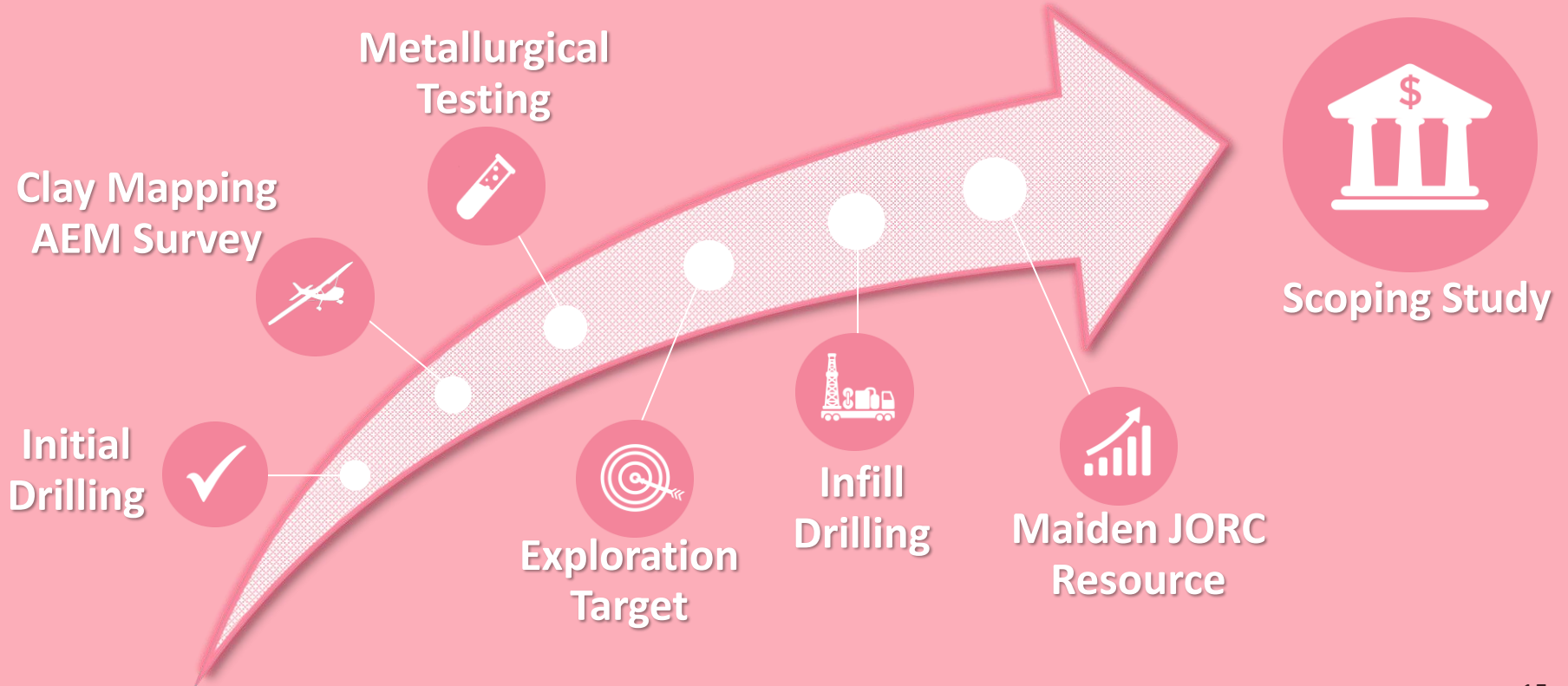


## Planned Work Program





# Splinter Rock Work Program



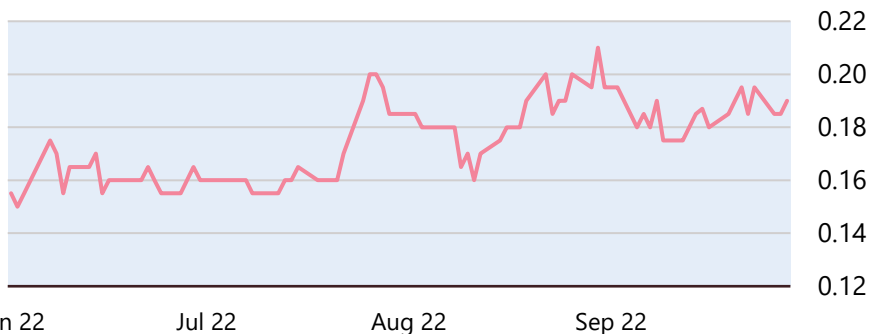
# Corporate Snapshot

## Capital Structure

ASX: OD6

Price per share <sup>1</sup>	A\$0.19
Total number of shares on issue <sup>2</sup>	102.45M
Performance rights and options <sup>2</sup>	32.70M
Market capitalisation (undiluted) <sup>1</sup>	A\$19.47M
Cash <sup>2</sup>	A\$7.08M
Debt <sup>2</sup>	A\$0.00M
Enterprise value <sup>1</sup>	A\$12.38M

## Share Price History



**Notes:** 1. As at 19 October 2022, 2. As at 30 September 2022



**Dr Darren Holden**  
NON-EXECUTIVE CHAIR



**Mr Brett Hazelden**  
MANAGING DIRECTOR

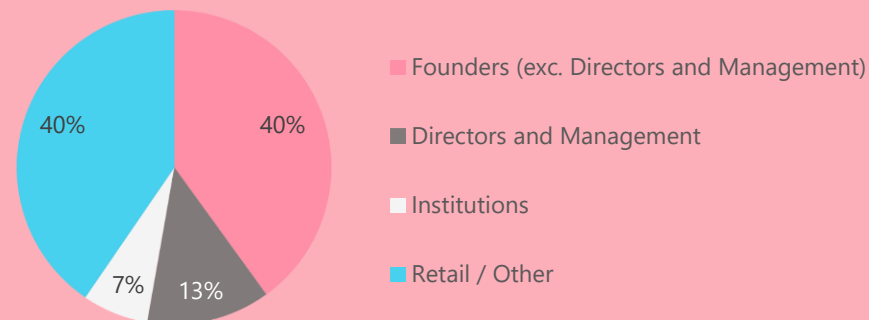


**Mr Piers Lewis**  
NON-EXECUTIVE DIRECTOR



**Dr Mitch Loan**  
NON-EXECUTIVE DIRECTOR

## Register Detail



- ✓ **Explosion in demand for critical rare earth minerals**
- ✓ **Drilling has confirmed thick, near surface, clay hosted rare earth elements**
- ✓ **Airborne geophysics aiming to map clay locations, expanse, depth and thickness across all granted OD6 Tenements**
- ✓ **Strong potential for globally-significant REE resource definition across a 30 x 60km target area**
- ✓ **Close proximity to Esperance port, town and roads**
- ✓ **Low carbon “Green Rare Earth” potential**



## **Registered Office**

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Phone: +61 8 6189 8515  
Email: [info@od6metals.com.au](mailto:info@od6metals.com.au)

## **Share Registry**

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Perth WA 6000

**[www.od6metals.com.au](http://www.od6metals.com.au)**