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# Growing Cummins Range Rare Earths Project

Company Update

*December 2021*

**ASX | REE**

[rarex.com.au](http://rarex.com.au)

**RARE** 

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# Corporate Snapshot



## Capital Structure

ASX Code	REE
OTCQB Code	REEEF
Share Price (3rd December 2021)	\$0.10
Shares on Issue	452m
Market Capitalisation	\$45.2m
Cash and Investments	\$5.5m
Enterprise Value	\$39.7m

## Board and Management

Chairman	John Young
Managing Director	Jeremy Robinson
Non-Executive Director	Shaun Hardcastle
Non-Executive Director	Cameron Henry
Exploration Manager	Guy Moulang
General Manager Projects	James Durrant
Company Secretary	Oonagh Malone

## Shareholders

Top 40 Shareholders	~40%
Number of Shareholders	~5,200
Substantial Shareholder	Simon Lee AO (6.5%)



# Investment Overview



- **Strategically located asset:** 100% owned Cummins Range Rare Earths Project in Western Australia – Tier-1 mining jurisdiction
- **Substantial resource:** 18.8mt at 1.15% TREO + 0.14% Nb<sub>2</sub>O<sub>5</sub>, including 6.5mt at 1.98% TREO + 0.21% Nb<sub>2</sub>O<sub>5</sub>
- **Outstanding recent results :** Exploration has recently confirmed high grade extensions at depth and along strike
- **Rare Earths prices increased strongly this year** due to strong demand growth in green-energy industry, global trade tensions
- **Well funded with cash and investments**

Highly leveraged to the booming global rare earths sector, with a quality asset in a Tier-1 location, Tier-1 partners and a clear growth strategy





# Rare Earths and Niobium – a massive growth opportunity



Niobium and Rare Earth Elements share common end uses undergoing massive growth through the technology revolution, with Niobium backed up by the ever increasing growth in steel alloys

## End Market Applications



### Electric Vehicle motors

Passenger, commercial. Electric trains and other transportation. Approx. 1kg NdPr per EV1



### Consumer electronics and appliances

Smart speakers, computer speakers, headphones, fridges, air conditioners.



### Automotive parts and sensors

Micromotors, sensors, speakers

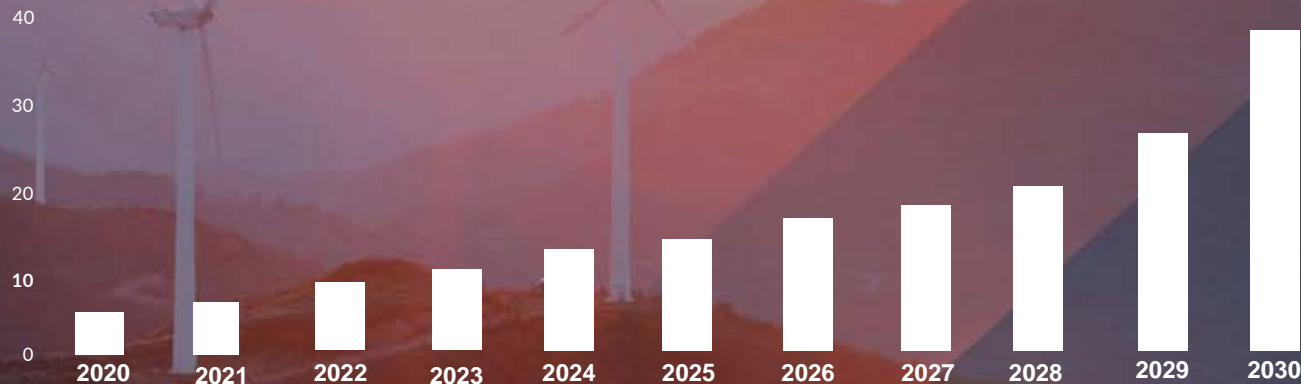


### Wind generation

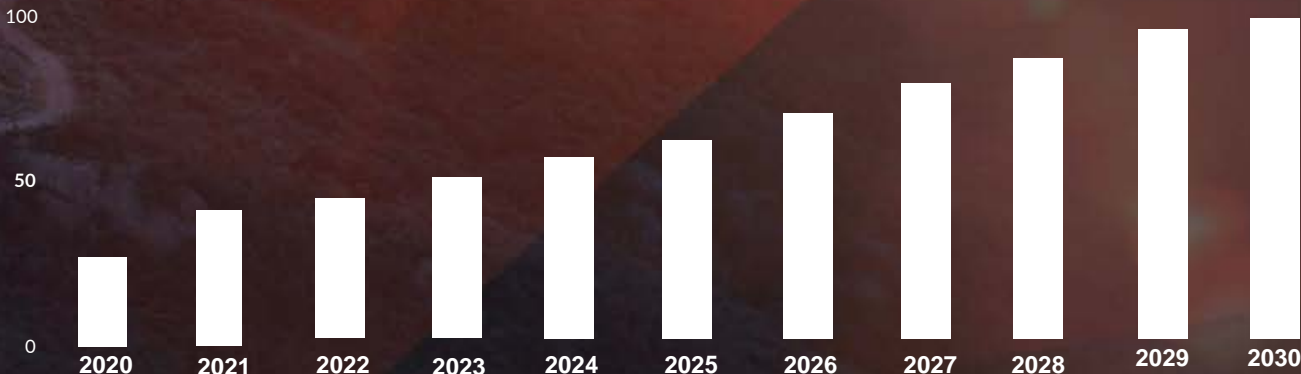
Electric motors  
At least 150kg per MWs

## Global End Market Growth

### Forecast Passenger EV Sales (m)



### Forecast Wind Power Installation (GW)



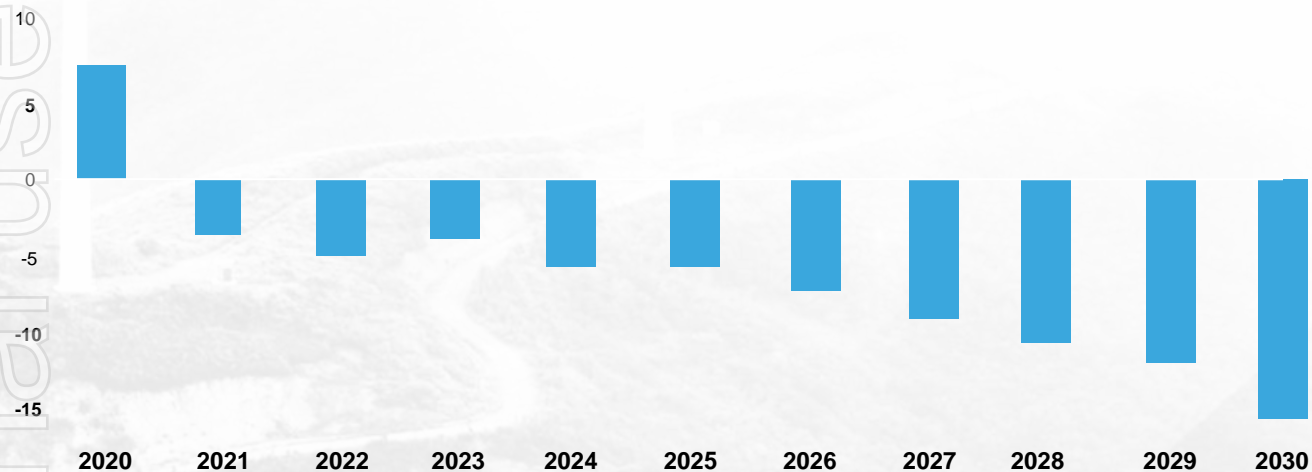
# Rare Earths Prices on the Rise



**NdPr Prices risen sharply over last few months – Currentlt US\$136/kg**

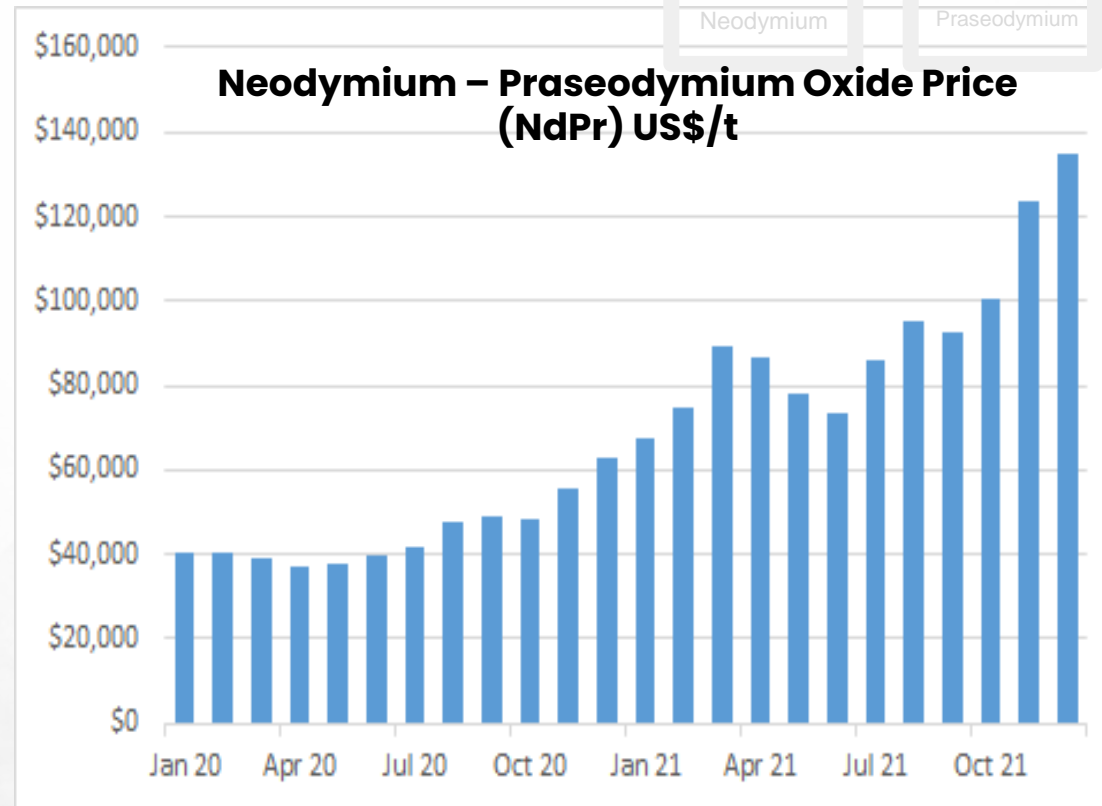
## NdPr Market Balance

**Forecast NdPr Oxide market balance (kt)**



+ NdPr supply shortage to occur in 2022-2023  
+ 2020-2030 demand growing at 10% p.a

## Neodymium – Praseodymium Oxide Price (NdPr) US\$/t

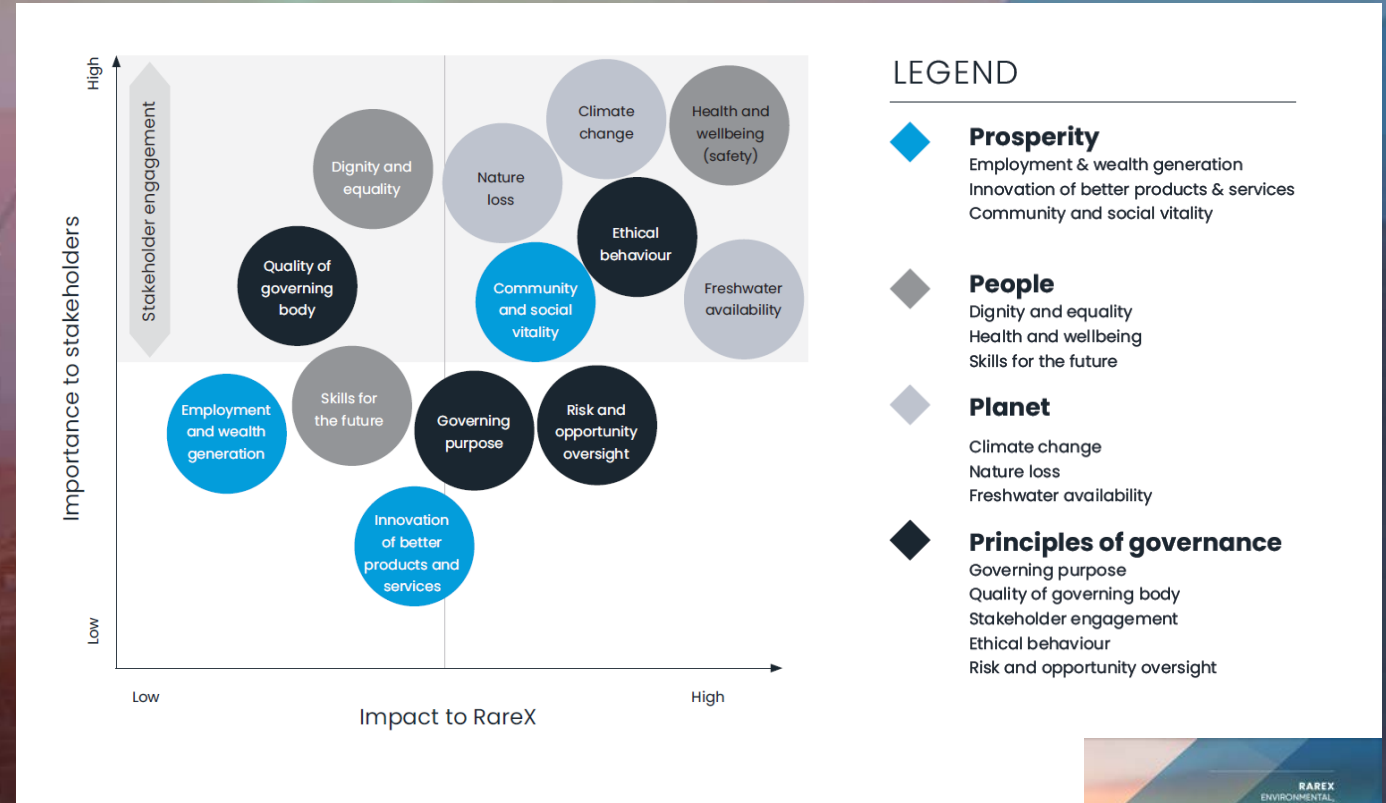


# ESG Framework



- RareX Announced its Maiden ESG framework in September 2021 developed in conjunction with industry leader Price Waterhouse Cooper.
- RareX has aligned itself with the World Economic Forum “WEF” Principles
- RareX already contributes 3.5% of its annual exploration expenditure the Kimberly sustainable development trust for the benefit of the Jaru People on who's land it operates

RareX has an important role to play in supplying rare earth minerals that are crucial for the low carbon economy, such as electric vehicles and wind turbines, as well as advanced technology for telecommunications and military purposes



ESG Framework

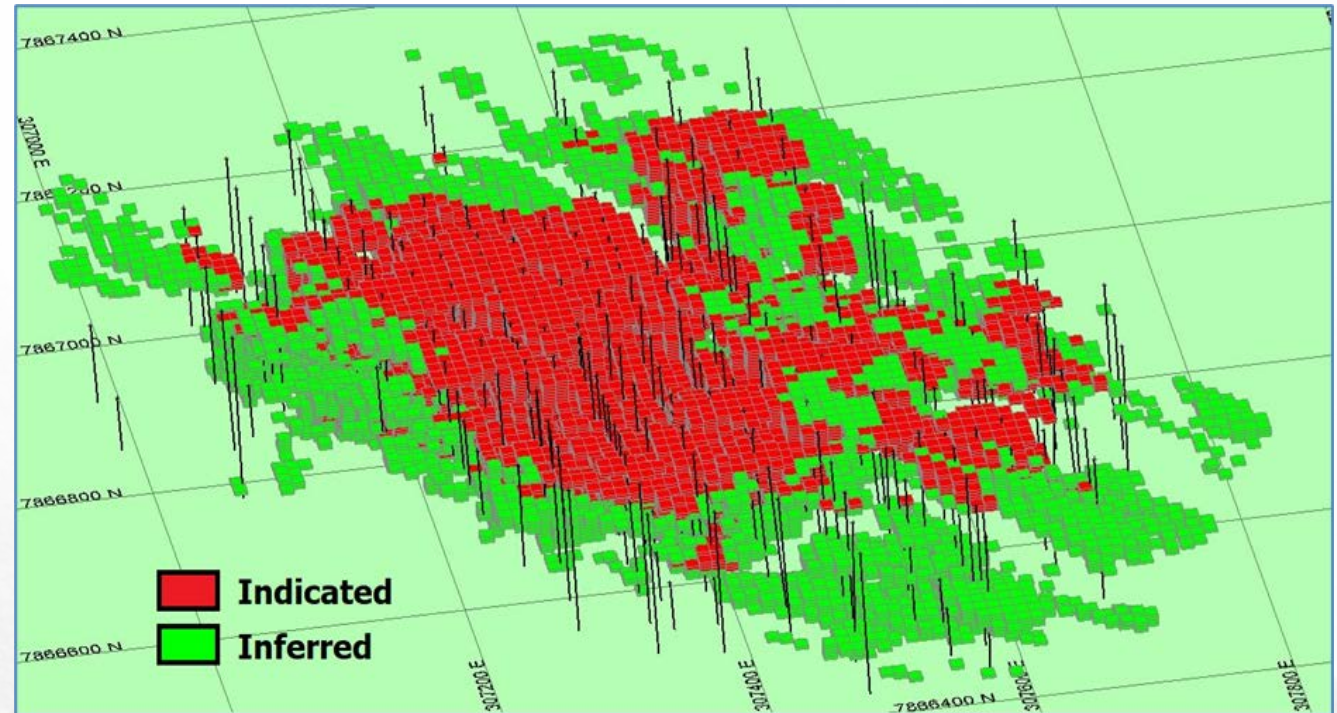




# Significant JORC Resource

RARE 

- A large rare earth and niobium rich carbonatite deposit located in the Kimberley region of Western Australia
- Globally significant Indicated and Inferred JORC Resource 18.9Mt at 1.15% TREO + 0.14% Nb<sub>2</sub>O<sub>5</sub>
- High-grade tonnes to **6.5Mt at 1.98 % TREO (inc. 0.38% NdPr) + 0.21% Nb<sub>2</sub>O<sub>5</sub>**
- Indicated Resource of 11.1Mt at 1.3% TREO + 0.17% Nb<sub>2</sub>O<sub>5</sub>
- **Competitive Basket price of US\$34/kg**
- **Current Niobium Price of US\$93/kg**





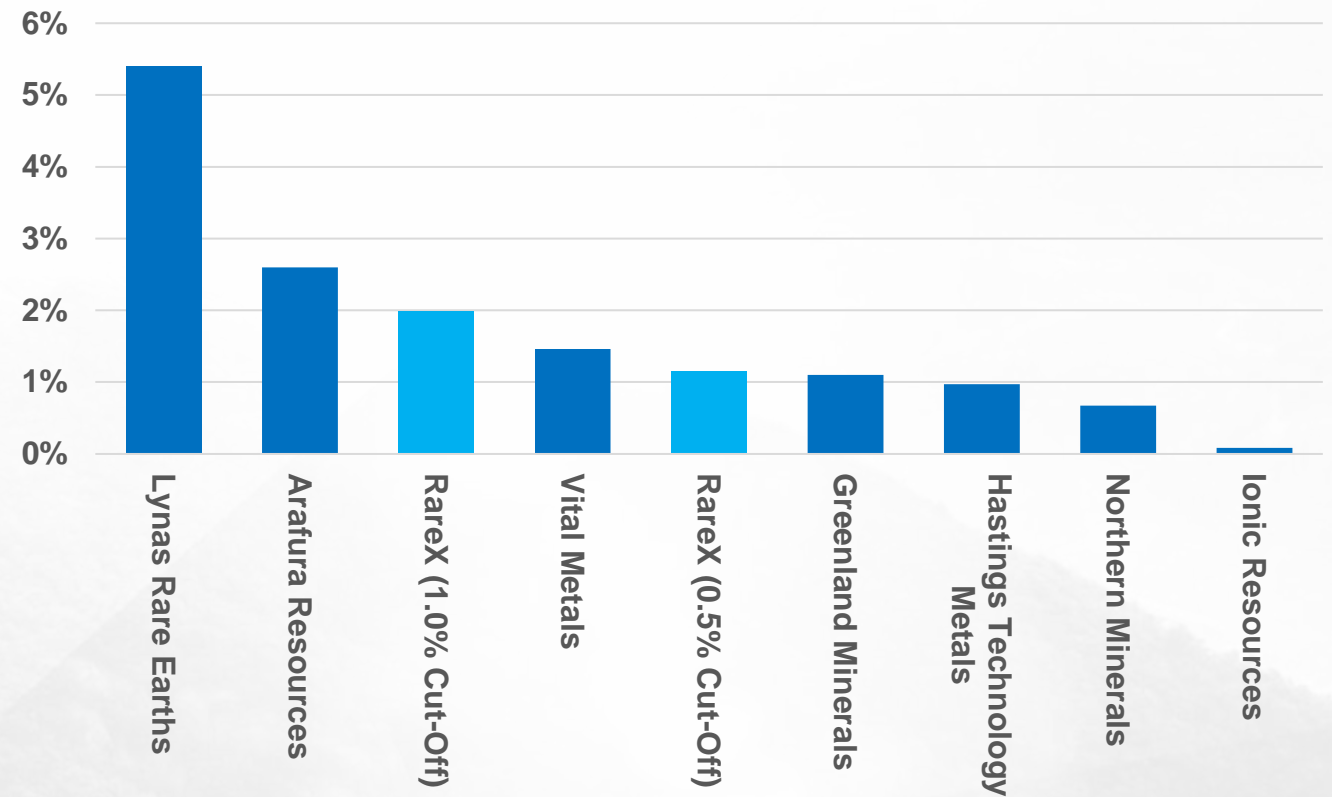
# Cummins Range – Grade and Scale



0.5% Cut Off	Tonnes Mt	TREO %	NdPr %	Nb <sub>2</sub> O <sub>5</sub> %	HREO ppm
<b>Indicated</b>	11.1	1.34	<b>0.27</b>	0.17	830
<b>Inferred</b>	7.7	0.88	<b>0.18</b>	0.11	540
<b>Total</b>	18.8	1.15	<b>0.23</b>	0.14	711

1.0% Cut Off	Tonnes Mt	TREO %	NdPr %	Nb <sub>2</sub> O <sub>5</sub> %	HREO ppm
<b>Indicated</b>	4.9	2.11	<b>0.41</b>	0.23	1,150
<b>Inferred</b>	1.6	1.60	<b>0.31</b>	0.16	800
<b>Total</b>	6.5	1.98	<b>0.38</b>	0.21	1,060

**ASX Listed Rare Earth Companies Primary Deposit Grades – TREO %**



NOTE: Doesn't include potential niobium credits

# Growing the Resource



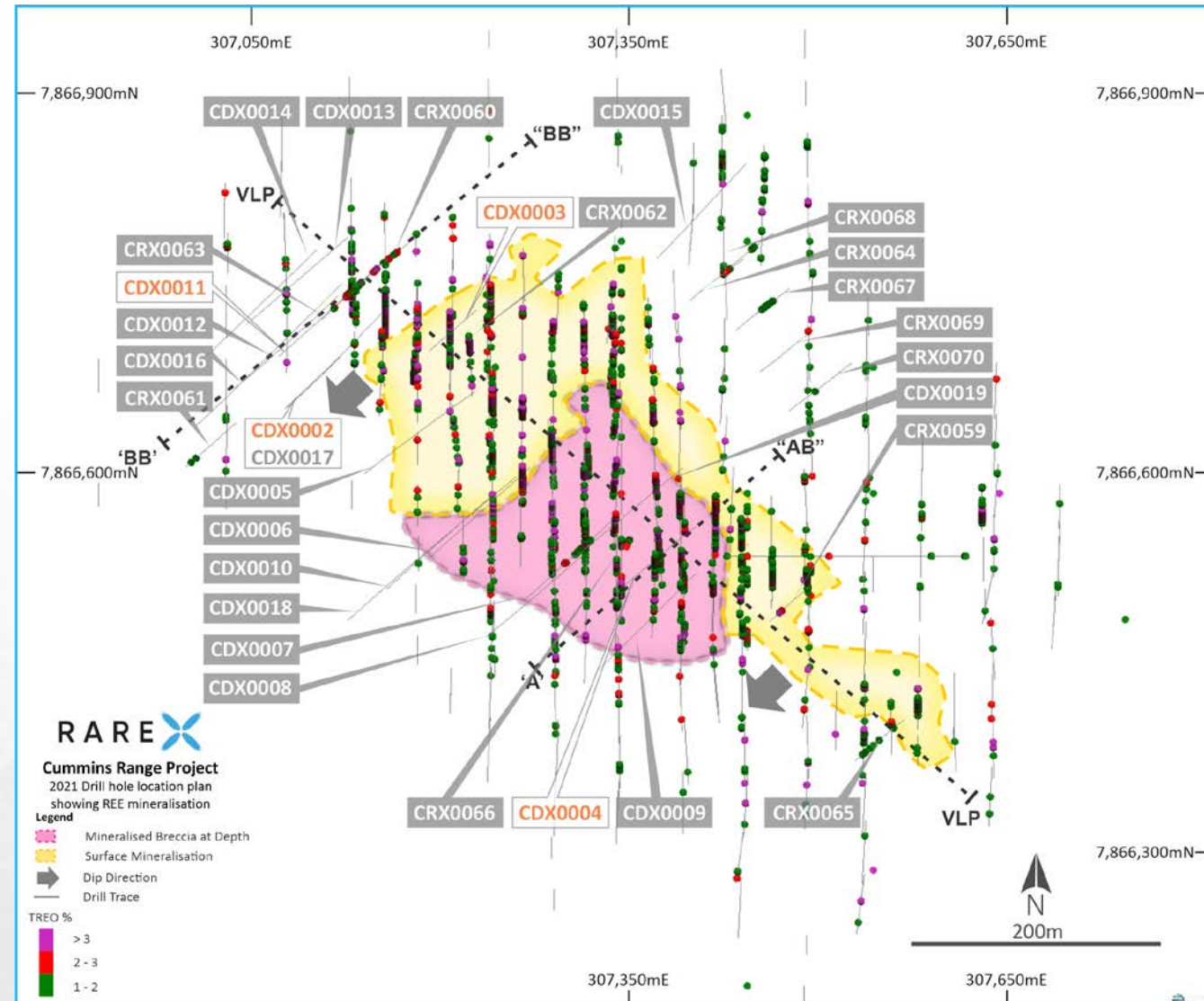
## Cummins Range unique geology points to high grade potential

- **Carbonatite intrusive complex** with REE mineralisation controlled by hydrothermal fluids
- Historic drilling mostly orientated in the wrong direction
- Recognition of high grade main fault / breccia zone for first time provides for high grade depth potential
- Possibility of multiple structures

## 5,272m drill program complete

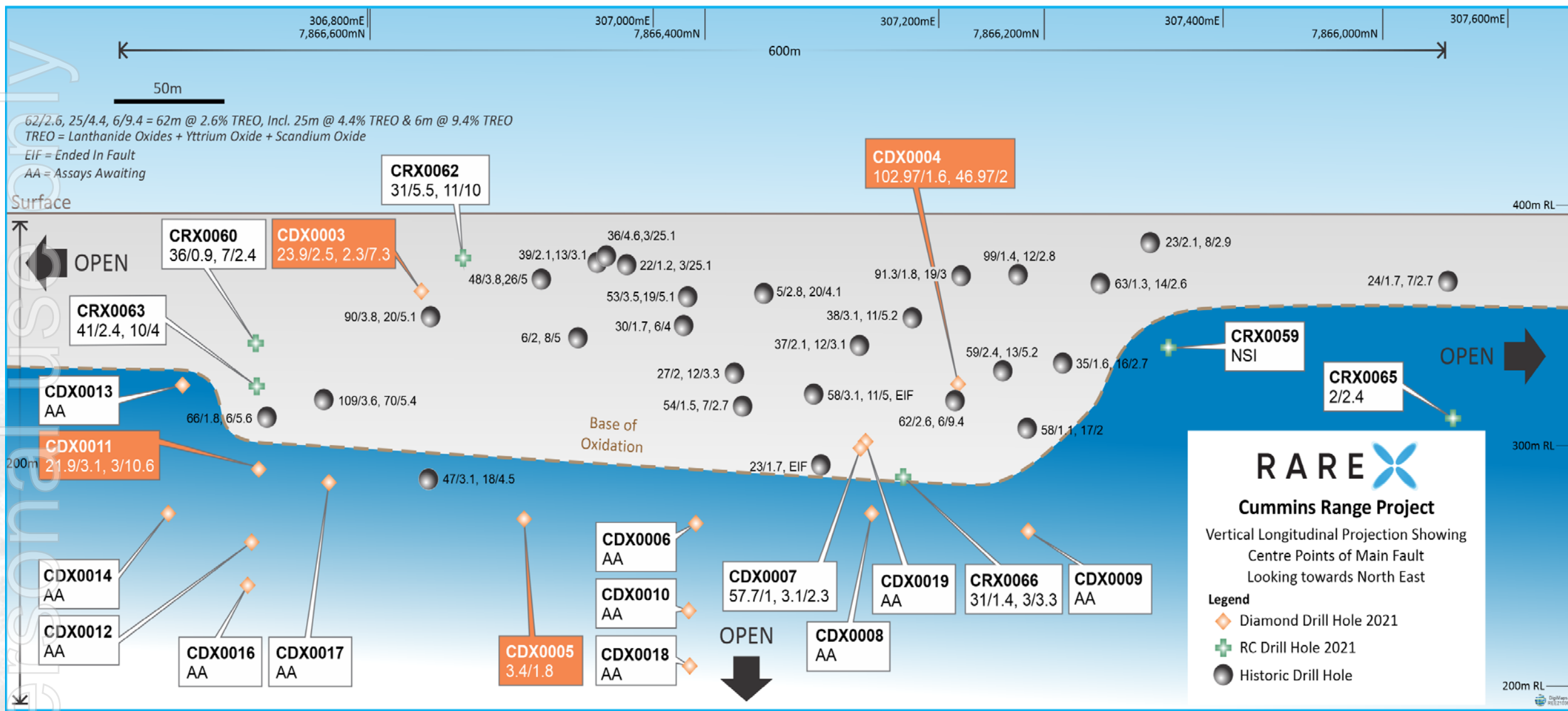
- 2,271m of RC Drilling complete
- 3,001m of Diamond drilling – first time since 1982

**Potential to grow the resources significantly**





# Primary Mineralisation Confirmed



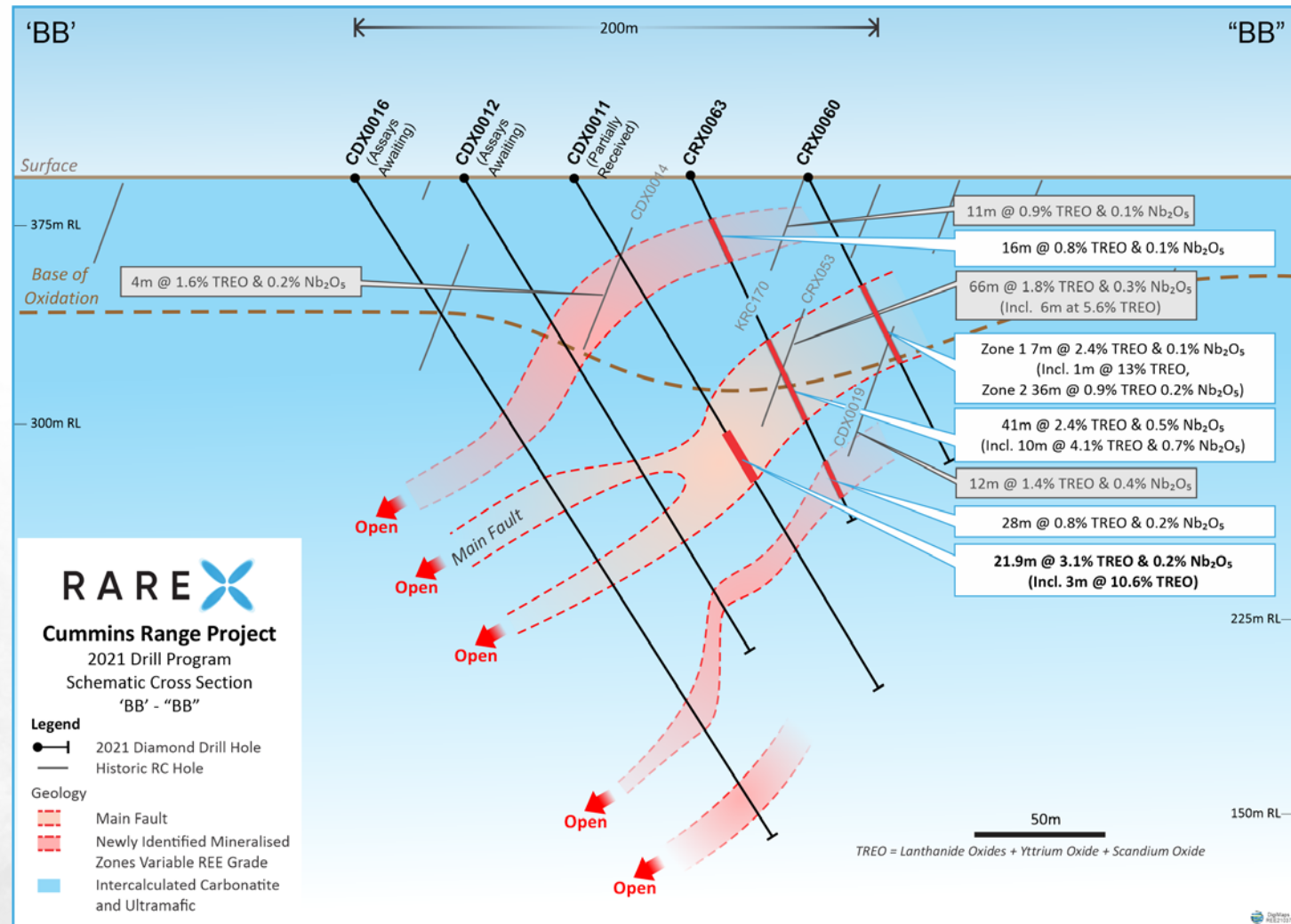
# Initial Diamond Results



First batch of assays confirm **true width of the Main Fault to be >40m** and identify new mineralised position, highlighting the deposit's exceptional growth potential

- CRX0063 intersects multiple mineralised zones, including:
  - Main Fault – 41m at 2.4% TREO and 0.51% Nb<sub>2</sub>O<sub>5</sub> from 57m, including:
  - **10m 4.1% TREO and 0.75% Nb<sub>2</sub>O<sub>5</sub>**
- CDX0011 intersects high grade primary mineralisation including
  - **22m at 3.1% TREO and 0.2% Nb<sub>2</sub>O<sub>5</sub>**
  - **Inc; 3m at 10.6% TREO**
- CDX0012 and CDX0016 Intersects significant primary mineralisation – open down dip

Multiple stacked lodes emerging





# Initial Diamond Results

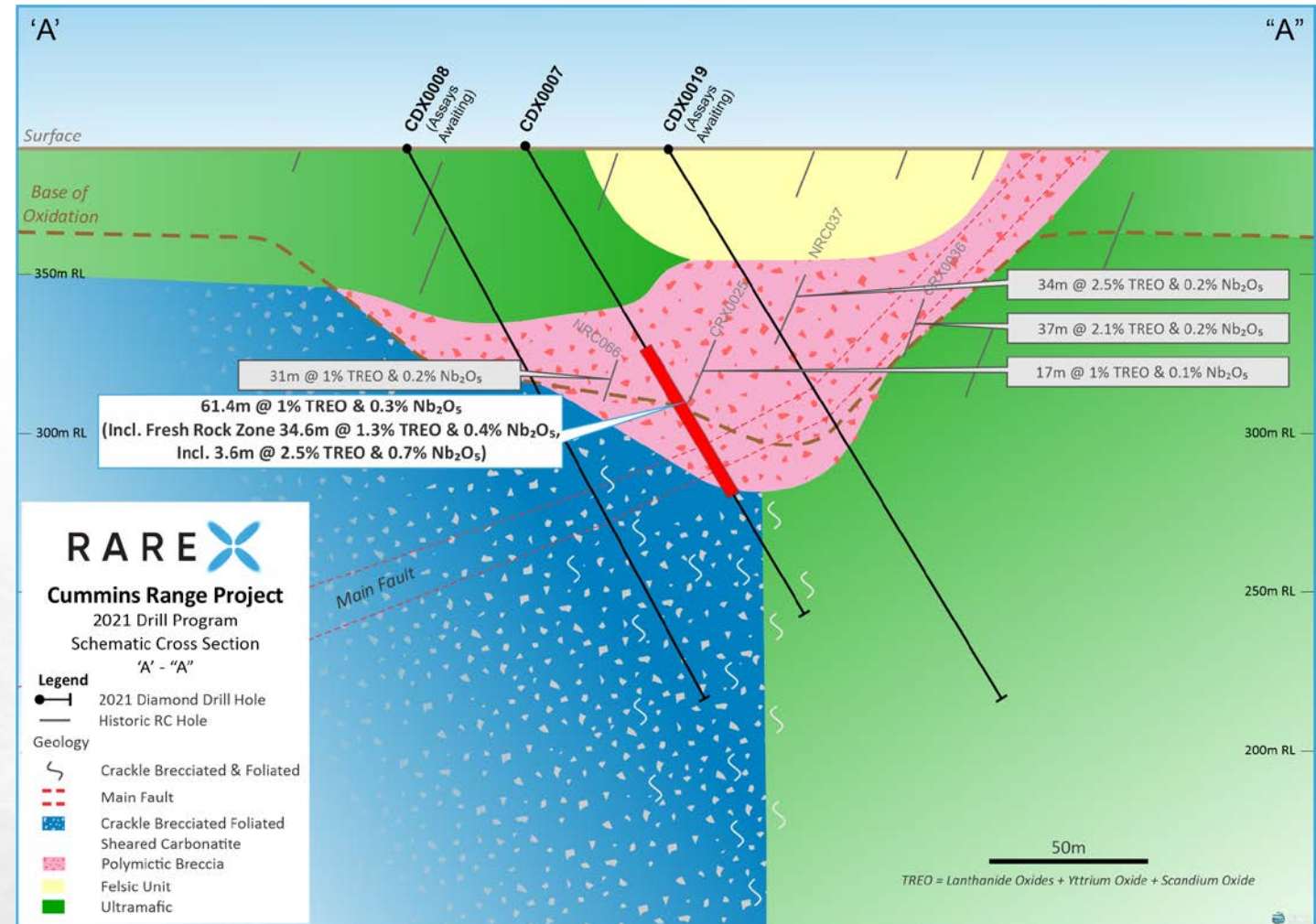


Proof of High Grade primary rare earths and niobium mineralisation in CDX007

- Primary Zone – 34.6m at 1.3% TREO and 0.4% Nb<sub>2</sub>O<sub>5</sub> including 3.6m at 2.5% TREO and 0.7% Nb<sub>2</sub>O<sub>5</sub>

Strong economic drivers in the primary zone including

- Good NdPr content up to 24% - comparable to Mt Weld
- Strong Niobium by-product potential 0.4% average and high grade 0.7%



# Study Work



- Recent Exciting Drilling results – potential change in Scope
- Recently appointed GM Projects Mr James Durrant
- Scoping Study scheduled for completion March Quarter 2022
- Industry Leading experts now all appointed

## Consultant

Gavin Beer

Primero

METS Group

Mining Plus

AMC

Animal Plant Resources

Advisian

PWC

## Scope

Rare Earth Element, metallurgical and general technical counsel

Lead consultant. Process design and cost estimation

Metallurgical programme lead

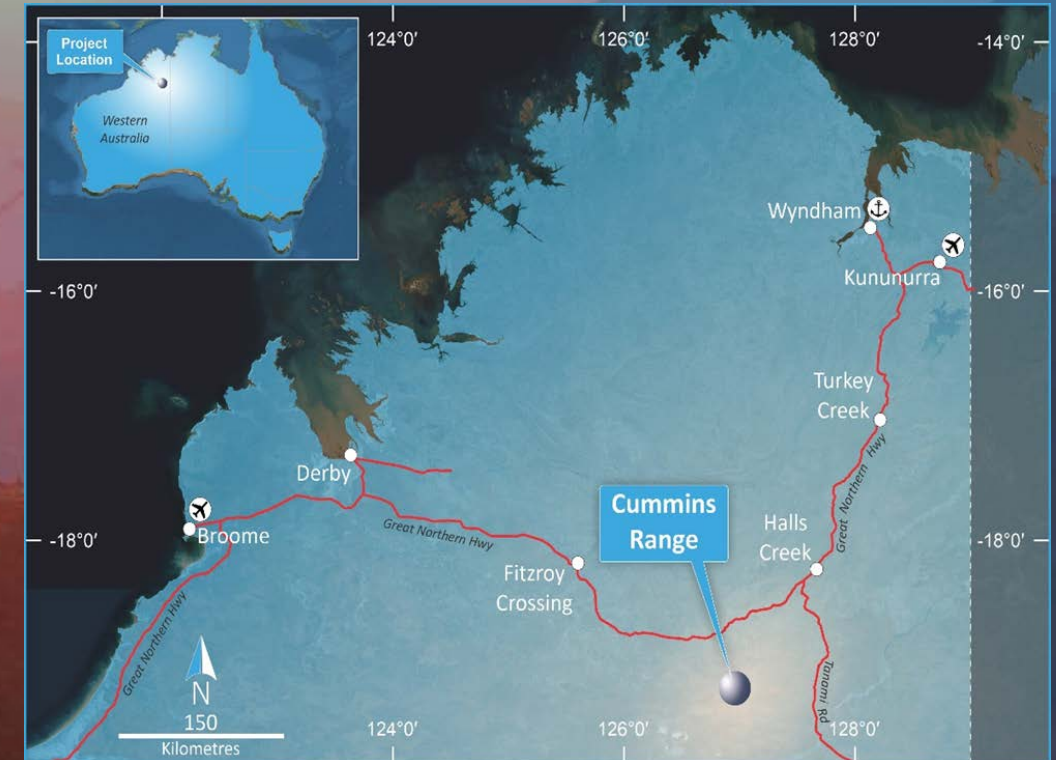
Pit design, pit optimisation mining method

Geometallurgical modelling

ESG integration, stakeholder engagement, approvals and permitting

Hydrogeology

ESG integration





# Key Investment Takeaways



- 1 High-quality, advanced Rare Earths Project in WA
- 2 Resource upgrade announced
- 3 Confirmation of high grade primary mineralisation
- 4 Rare Earths prices rising strongly
- 5 Cosmos Exploration IPO completed



With a \$45m market capitalisation, the Company is significantly undervalued relative to its peers in an exciting growth area