

ASX: ABX

Managing Director/CEO Presentation at the Noosa Mining Investor Conference

ABx Group (ASX: ABX) ("ABx" or "the Company") is pleased to provide the attached material being presented by Managing Director and CEO Dr Mark Cooksey at the Noosa Mining Investor Conference.

ABx is exhibiting from Wednesday 19 July to Friday 21 July at the conference being held at Peppers Noosa Resort & Villas.

Dr Cooksey's presentation is at 3:40pm AEST on Wednesday 19 July and he looks forward to welcoming shareholders and investors throughout the conference.

To register, please click on the link below:

https://www.noosaminingconference.com.au/register

If you are unable to attend in person, the conference is also being live streamed. To register, please click on the link below:

https://us06web.zoom.us/meeting/register/tZcpdOCvrjojGNRNvi5lkdF0LnApKU11g-4Q#/registration

ASX Release authorised by Mark Cooksey, Managing Director and CEO.

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Competent Person Statement

The information in this report that relate to Exploration Information and Mineral Resources are based on information compiled by Ian Levy who is a member of The Australasian Institute of Mining and Metallurgy and the Australian Institute of Geoscientists. Mr Levy is a qualified geologist and a director of ABx Group Limited.

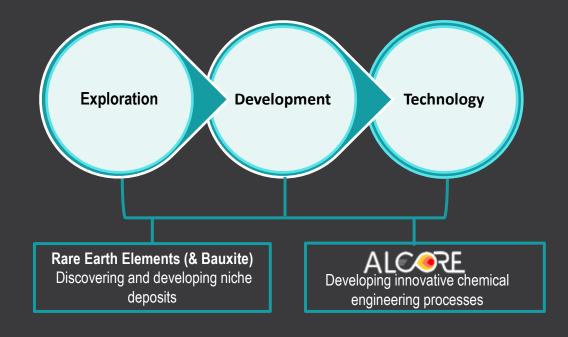
Mr Levy has sufficient experience, which is relevant to the style of mineralisation and type of deposit under consideration and to the activity, which he is undertaking to qualify as a Competent Person as defined in the 2012 Edition of the Australasian Code for Reporting of Exploration Results, Mineral Resources and Ore Reserves. Mr Levy has consented in writing to the inclusion in this report of the Exploration Information in the form and context in which it appears.





Delivering materials for a cleaner future

- 1. Discovering and developing an ionic adsorption clay rare earth project in northern Tasmania
- 2. Establishing a plant to produce hydrogen fluoride and aluminium fluoride from recycled industrial waste, to replace imports (ALCORE)
- 3. Mining and enhancing bauxite resources for the cement, aluminium and fertiliser industries







Board of Directors

Hon Paul Lennon AO (Chair)



- Premier of Tasmania 2004-2008
- Deputy Premier and Minister for Infrastructure, Energy & Resources 1998-2004
- Principal Paramul Pty Ltd 2009-

lan Levy (Director)



- 30 years of senior management and geological experience with multiple commodities, including at WMC and Pancontinental Mining
- Previously CEO of Allegiance Mining and Director of Gloucester Coal
- Member of JORC for 11 years (4 years as Vice Chairman) and Federal President, Australian Institute of Geoscientists

Dr Mark Cooksey (Managing Director and CEO)



- More than 20 years with Rio Tinto and CSIRO
- Worked closely with aluminium and other metal industries
- Significant experience in commercialising new technologies and processes
- PhD in Chemical & Materials Engineering

Ken Boundy (Non-Executive Director)



- 20 years leading companies and divisions in wine, food, building materials and tourism industries
- Chair and Non-Executive on 21 private and public boards
- Executive experience in corporate development, M&A and marketing



Corporate Overview

ASX code: **ABX**

Listed	Issued shares	Options	52-week range	volume (3 months)	Market cap (@\$0.10)	Cash @ 17 July 2023	Shareholders
24 Dec 2009 @ \$0.20	223.6m	1.6m	\$0.10- \$0.18	139,000	\$22m	\$5.5m	2,529

Major Shareholders	Shares	%
Shareholders Mutual Alliance	7.0 m	3.1
HSBC Custody Nominees	5.9 m	2.6
Justevian Pty Ltd	5.8 m	2.6
Aftron Pty Ltd	5.7 m	2.5
Yarraandoo Pty Ltd	5.6 m	2.5
Peter Palan and Clare Palan	4.8 m	2.2
Top 20 shareholders	64.1 m	28.6
Remainder	159.5 m	71.4

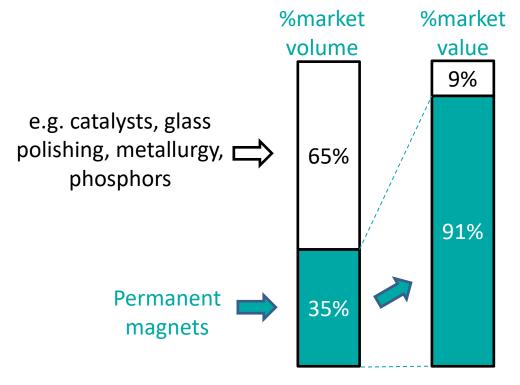


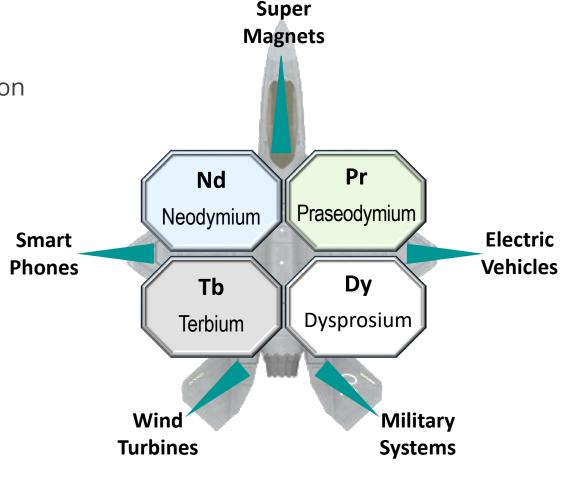
Resources: 27 million tonnes rare earths and 130 million tonnes bauxite



Permanent magnets

- Essential for electric vehicles and wind turbines
- Represent over 90% of value of rare earths consumption
- Forecast to grow at 7% per year to 2040



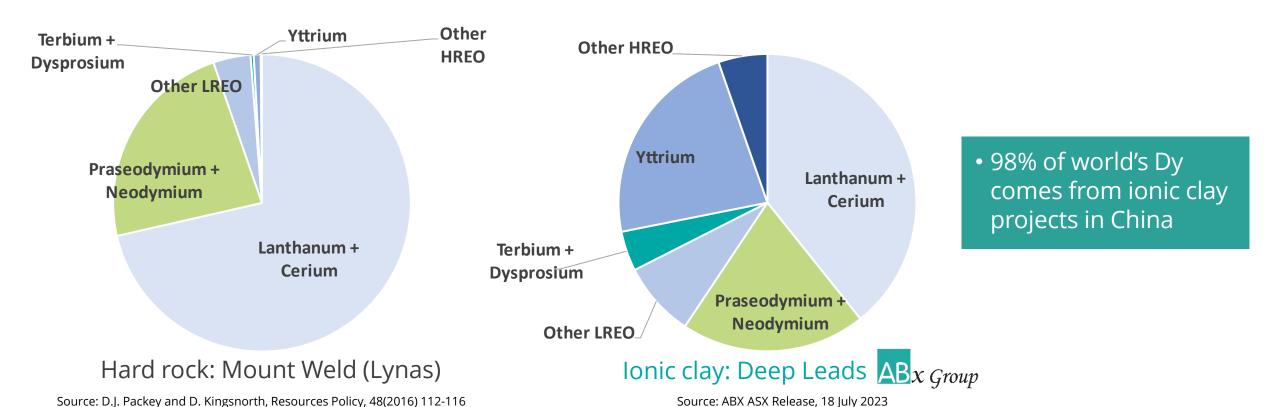






Ionic adsorption clay (IAC) rare earth deposits

- Currently only mined in southern China
- Less complex processing: lower costs and shorter time to production
- Contain much higher proportion of higher value, heavy rare earths

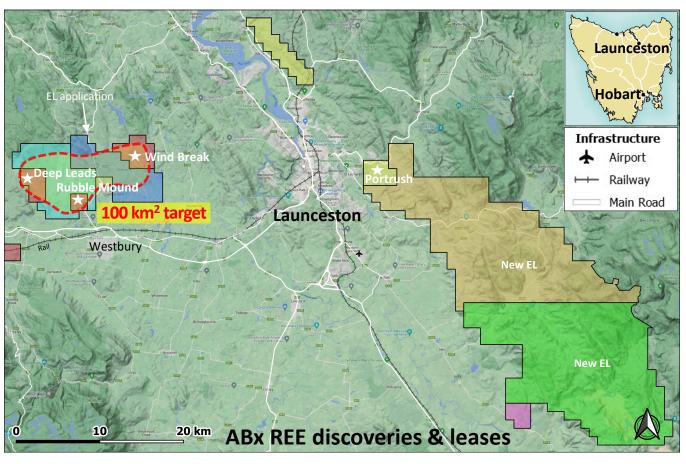




ABx rare earth discoveries in Tasmania

- ABx is the first company to discover rare earths in Tasmania
- Deep Leads and Rubble Mound have highest reported extractions from any clay-hosted REE prospect in Australia: they are ionic adsorption clays¹
- Four discoveries spanning 52 km ⁽²⁾
- Very low levels of radioactive elements (thorium and uranium)

¹Source: ABX ASX Release, 2 February 2023 ²Source: ABX ASX Release, 16 March 2022



Source: ABX ASX Release, 18 July 2023



Rare Earths Resource Estimate

- Announced 18 July 2023¹
- Six-fold increase since maiden estimate in November 2022²

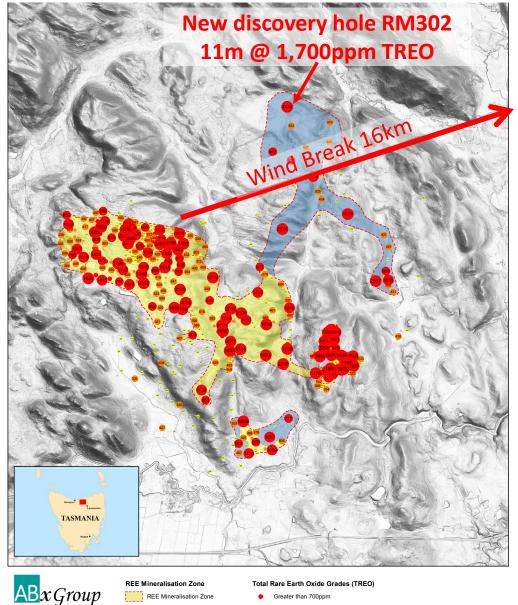
Size	Cut-off (ppm	Mean TREO	Mean TREO-	
	TREO-CeO ₂)	(ppm)	CeO ₂ (ppm)	
27 Mt ⁽³⁾	250	803	603	

Holes	Metres drilled (m)	Metres assayed	From	To
drilled		(m)	(m)	(m)
681	6,728	3,145	4.5	12.1

• Resource based on only 22% of current estimated mineralised area

³24 Mt inferred and 4 Mt indicated







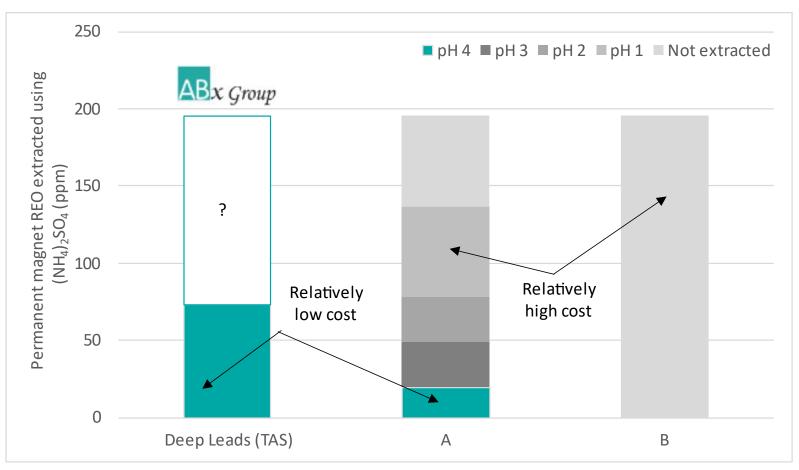


Less than 300ppm



¹Source: ABX ASX Release, 18 July 2023 ²Source: ABX ASX Release, 23 November 2022

Not all clays are created equal pH is king



Permanent magnet REO = $Pr_6O_{11} + Nd_2O_3 + Tb_4O_7 + Dy_2O_3$

Source: ABX ASX release, 2 February 2023

- Deposits A and B are hypothetical (same grade)
- Processing cost increases significantly as pH decreases
 - Acid consumption
 - Impurity removal

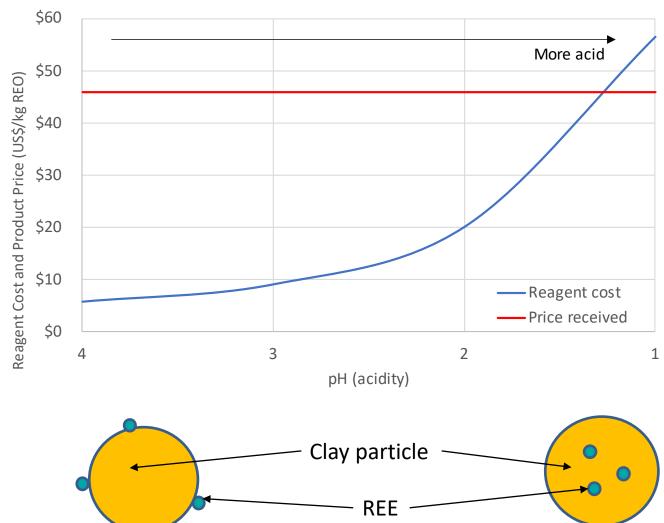
The pH Scale Battery Lemon Tomato Milk Blood Stomach Tablets Soap Drain Cleaner O 1 2 3 4 5 6 7 8 9 10 11 12 13 14 Stomach Acid Vinegar Coffee Water Baking Soda Ammonia Solution Acidic Neutral Alkaline



Not all clays are created equal

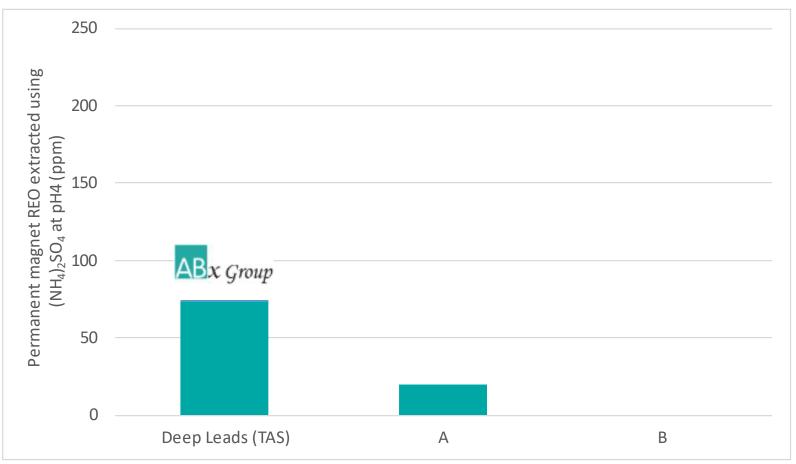
pH is king

- Charts shows <u>indicative</u> reagent cost and product prices, based on published data
- As pH decreases, reagent cost alone can be higher than product price
 - Position on cost curve heavily dependent on pH required to achieve significant extraction
 - There is a threshold pH below which the production cost is likely to be higher than revenue





Not all clays are created equal 'Desorbable grade' varies enormously



 Deep Leads has the highest 'desorbable grade' (REE extractable at pH 4)

Permanent magnet REO = $Pr_6O_{11} + Nd_2O_3 + Tb_4O_7 + Dy_2O_3$



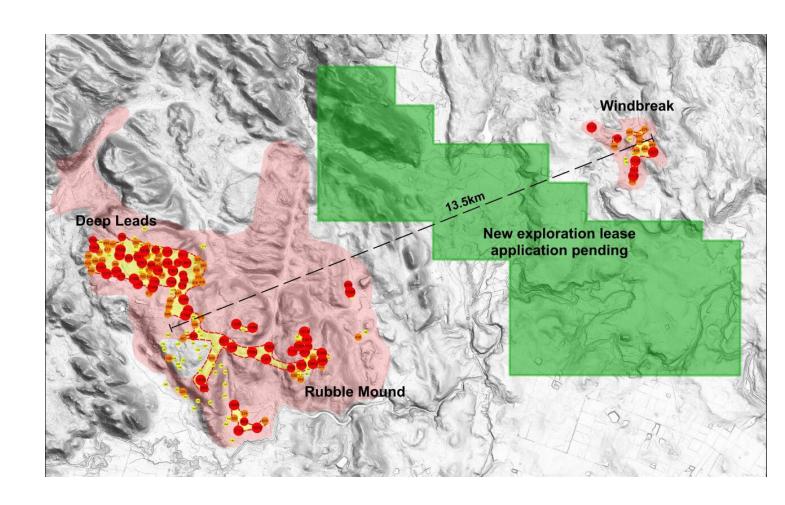
ABx rare earths strategy

Strategy

- Rapidly develop low-cost production of mixed rare earth carbonate
- We operate only where welcomed

2023 Plan

- Further investigations of metallurgical processing steps and conditions
- Estimate CAPEX and OPEX
- Deepen engagement with potential customers
- Enhance ABx's exploration technology to find more rare earths
- Further drilling campaigns







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