

INVESTOR WEBINAR PRESENTATION

ABx Group (ASX: ABX) ("ABx" or "the Company") is pleased to announce its participation in the ShareCafe Small Cap "Hidden Gems" Webinar, to be held Friday 10th of May 2024 from 12:30pm AEST / 10:30am AWST.

ABx Group Managing Director and CEO Dr Mark Cooksey will provide an overview of the Company, which recently announced an updated rare earth resource estimation of 89 million tonnes for its Deep Leads – Rubble Mound and Wind Break deposits¹.

The Company is also progressing its 83%-owned subsidiary ALCORE, which is successfully producing hydrogen fluoride from aluminium smelter waste, which is envisioned to be further processed into high-value aluminium fluoride via an existing commercial process.

This webinar can be viewed live via Zoom and will provide viewers the opportunity to hear from, and engage with, a range of ASX-listed leading micro/mid cap companies.

To access further details of the event and to register at no cost, please copy and paste the following link into your internet browser:

https://us02web.zoom.us/webinar/register/WN_lmdOpYU1TjupRmzfoNyNng

A recorded copy of the webinar will be made available following the event.

This announcement is approved for release by Mark Cooksey, Managing Director and CEO.

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¹ ASX Announcement 2 May 2024

About ABx Group Limited

ABx Group (ABX) is a uniquely positioned, high-tech Australian company delivering materials for a cleaner future.

The two current areas of focus are:

- Creation of an ionic adsorption clay rare earth project in northern Tasmania
- Establishment of a plant to produce hydrogen fluoride and aluminium fluoride from recycled industrial waste, to replace imports (ALCORE)

There is also a legacy business:

- Mining and enhancing bauxite resources for cement, aluminium and fertiliser production

ABx endorses best practices on agricultural land, strives to leave land and environment better than we find it. We only operate where welcomed.

Disclaimer Regarding Forward Looking Statements

This ASX announcement (Announcement) contains various forward-looking statements. All statements other than statements of historical fact are forward-looking statements. Forward-looking statements are inherently subject to uncertainties in that they may be affected by a variety of known and unknown risks, variables and factors which could cause actual values or results, performance, or achievements to differ materially from the expectations described in such forward-looking statements.

ABx does not give any assurance that the anticipated results, performance, or achievements expressed or implied in those forward-looking statements will be achieved.



(ASX:ABX)

Delivering Materials for a Cleaner Future

10 May 2024

Disclaimer

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You should not act or refrain from acting in reliance on this presentation material. This overview of ABx does not purport to be all inclusive or to contain all information which its recipients may require in order to make an informed assessment of the Company’s prospects. You should conduct your own investigation and perform your own analysis in order to make an informed assessment of the company’s prospects. You should also conduct your own investigation and perform your own analysis in order to satisfy yourself as to the accuracy and completeness of the information, statements and opinions contained in this presentation and making any investment decision.

Prices for aluminium fluoride (AlF₃) were sourced from Asian Metals, China Customs and verified by comparison with prices from Bloomberg. The price actually achieved will depend upon market conditions at the time of sale.

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.

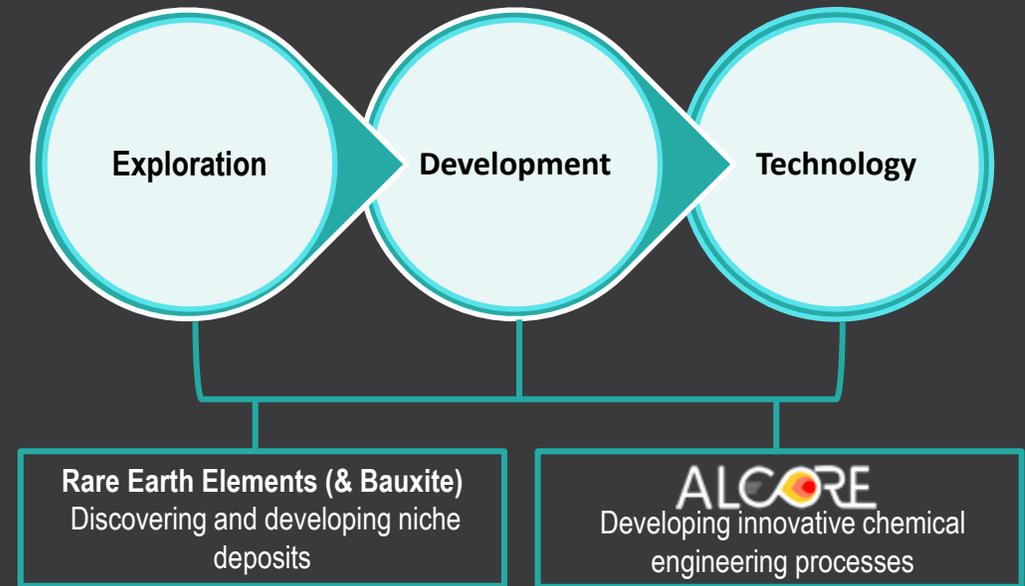
Mr Levy has sufficient experience, which is relevant to the style of mineralisation and type of deposit under consideration and to the activity, which he is undertaking to qualify as a Competent Person as defined in the 2012 Edition of the Australasian Code for Reporting of Exploration Results, Mineral 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

- Creation of an ionic adsorption clay rare earth project in northern Tasmania
- Establishment of a plant to produce hydrogen fluoride and aluminium fluoride from recycled industrial waste, to replace imports (ALCORE)

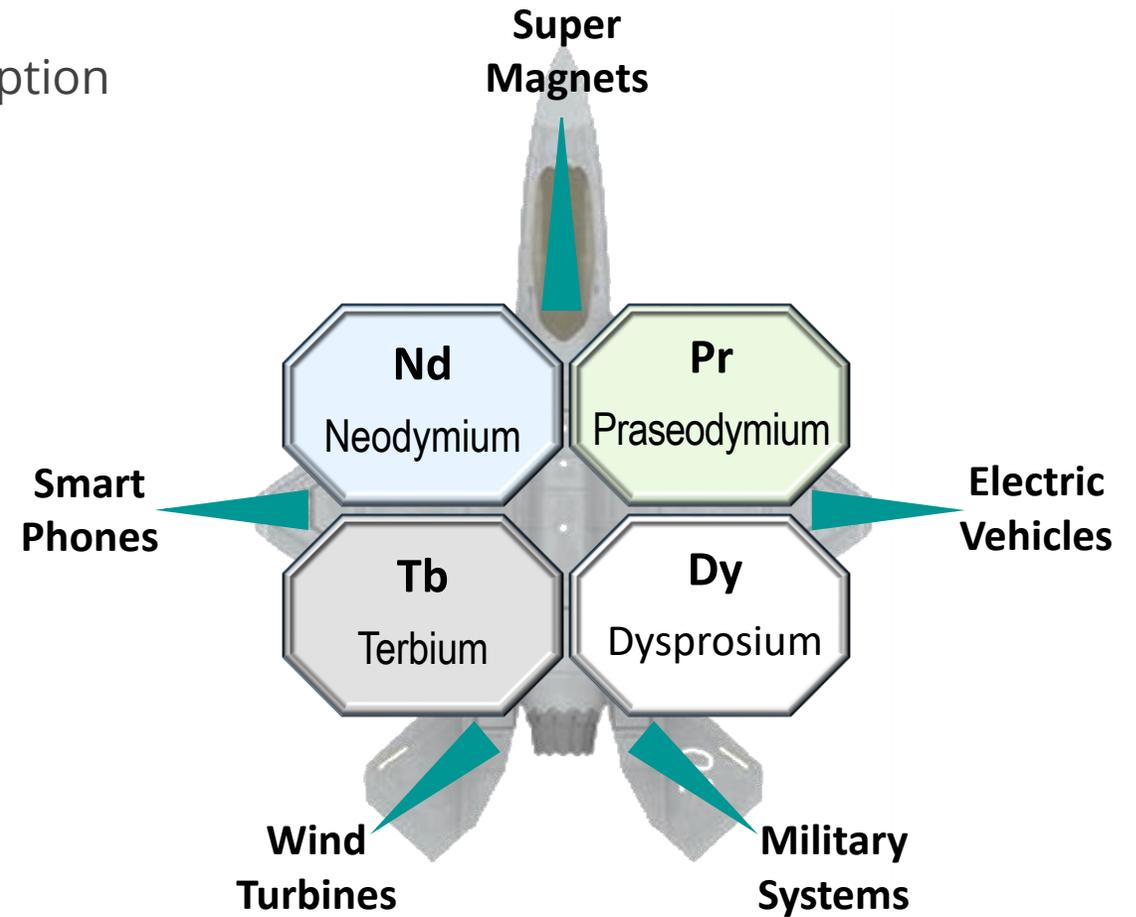
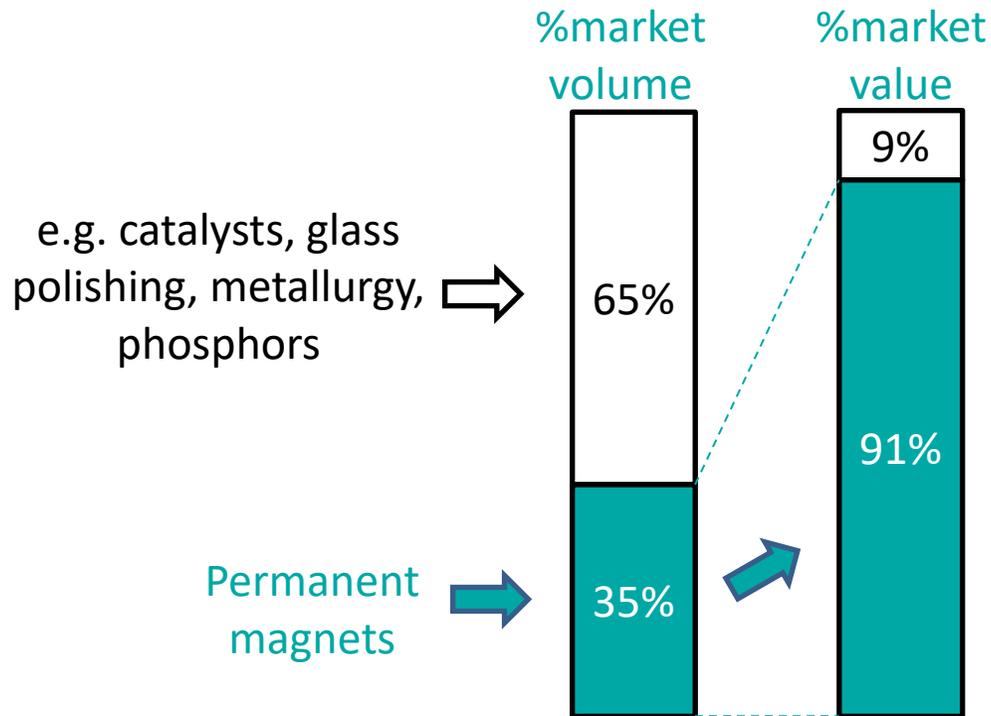
Legacy business

- Mining and enhancing bauxite resources for cement, aluminium and fertiliser production



Permanent magnet rare earths

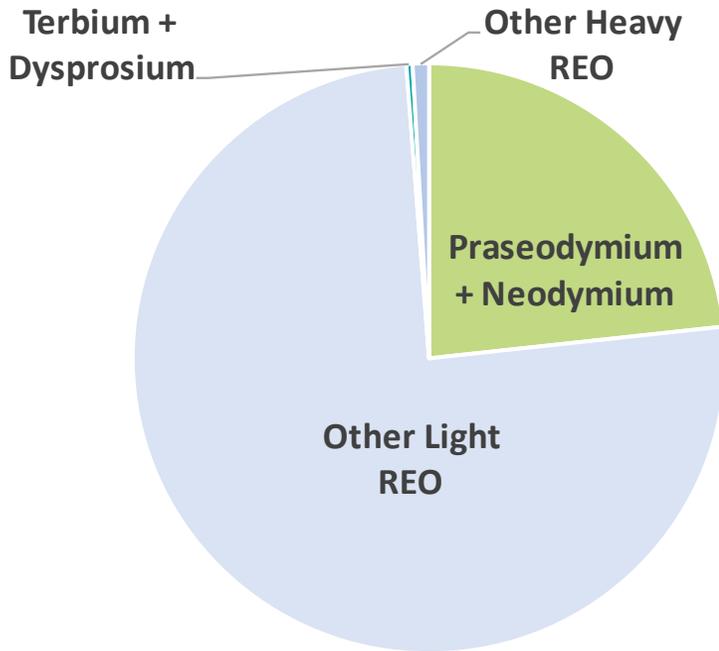
- Essential for electric vehicles and wind turbines
- Represent over 90% of value of rare earths consumption
- Forecast to grow at 7% per year to 2040



Source: Rare Earth Industry Association (<https://www.global-reia.org/about-rare-earth/>)

Ionic adsorption clay (IAC) rare earth deposits

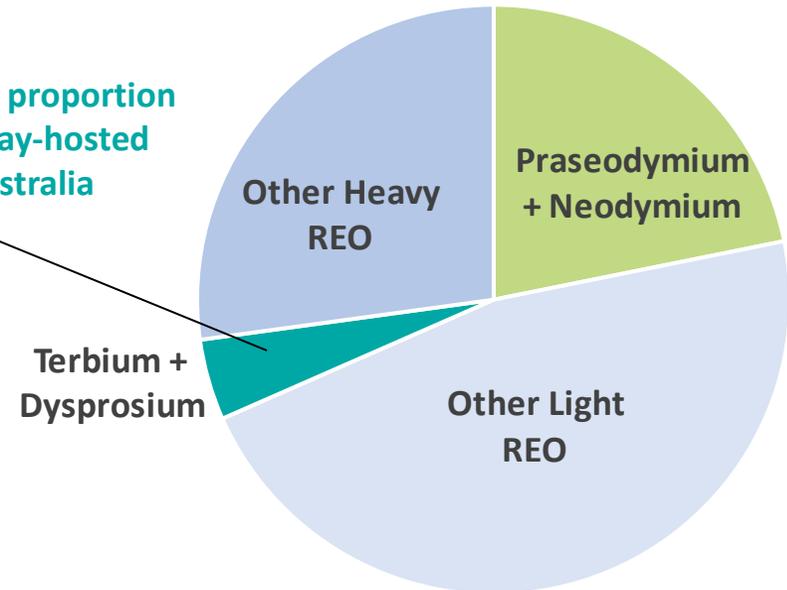
- Contain much higher proportion of higher value, heavy rare earths
- Historically only mined in southern China



Hard rock: Mount Weld (Lynas)

Source: D.J. Packey and D. Kingsnorth, Resources Policy, 48(2016) 112-116

ABx has the highest proportion of Dy+Tb of any clay-hosted resource in Australia



Ionic Adsorption Clay **ABx** Group

Source: ABX ASX Announcement, 20 November 2023

Requirements for an ionic clay rare earth project

Mineral Resource

- Size
- Grade
- Mineralogy
- Strip ratio

Jurisdiction

- Regulatory approval
- Community support
- Government support
- Supply chain security

Infrastructure

- Transport
- Water
- Energy

Company Resources

- People
- Partnerships
- Finance
- Intellectual property

ABx rare earth discoveries in Tasmania

ABx is first company to discover rare earths in Tasmania

- Four discoveries spanning 100 km² (1)
- Newly granted tenements add over 450 km² (2)

Highest proportion of DyTb of any clay-hosted resource in Australia³

Highest ionic component reported in Australia, comparable to operations in China^{4,5}

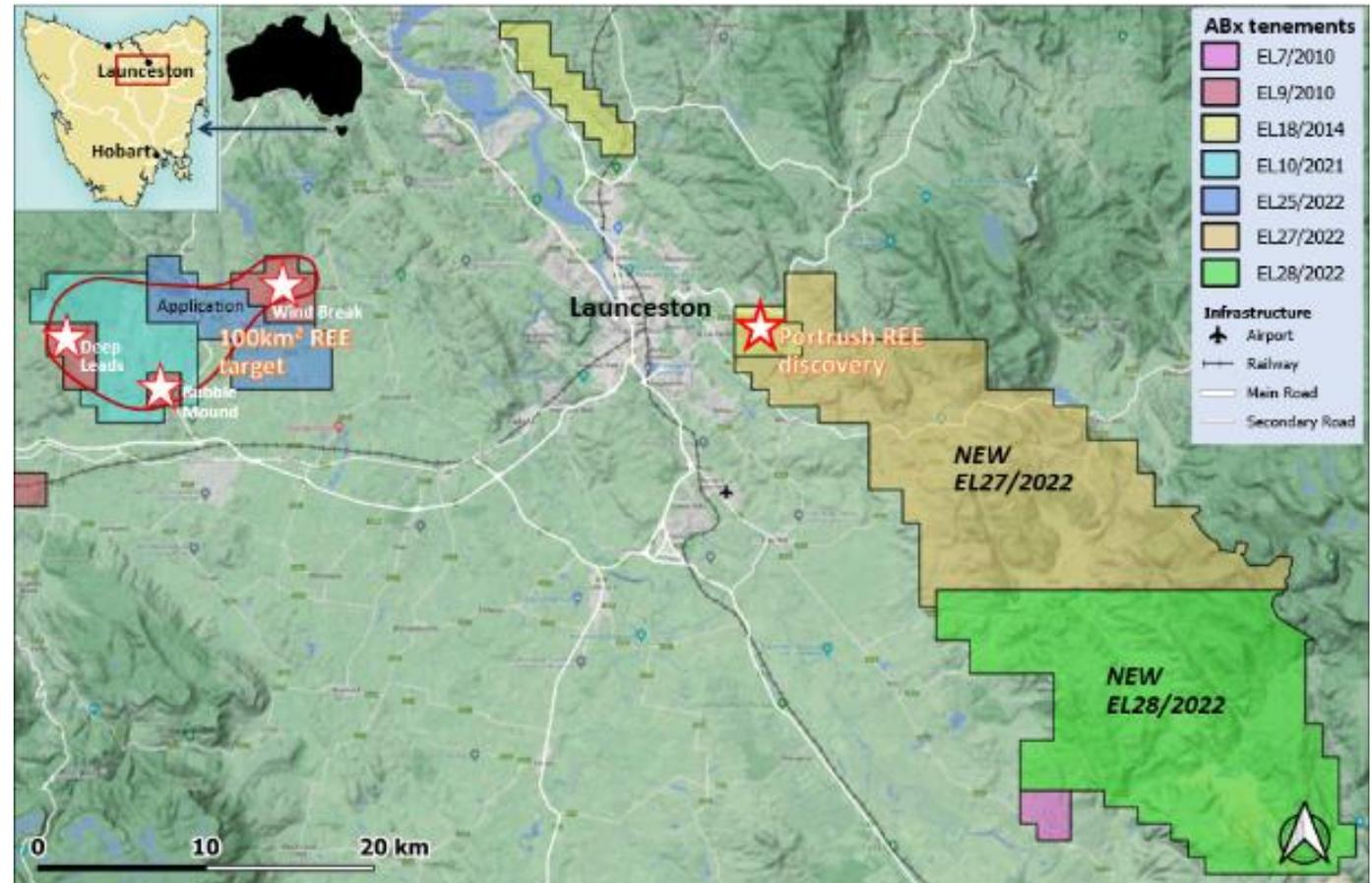
¹ ABX ASX Announcement, 16 March 2022

² ABX ASX Announcement, 26 September 2023

³ ABX ASX Announcement, 2 May 2024

⁴ ABX ASX Announcement, 31 May 2022

⁵ ABX ASX Announcement, 2 February 2023



Source: ABX ASX Announcement, 22 January 2024

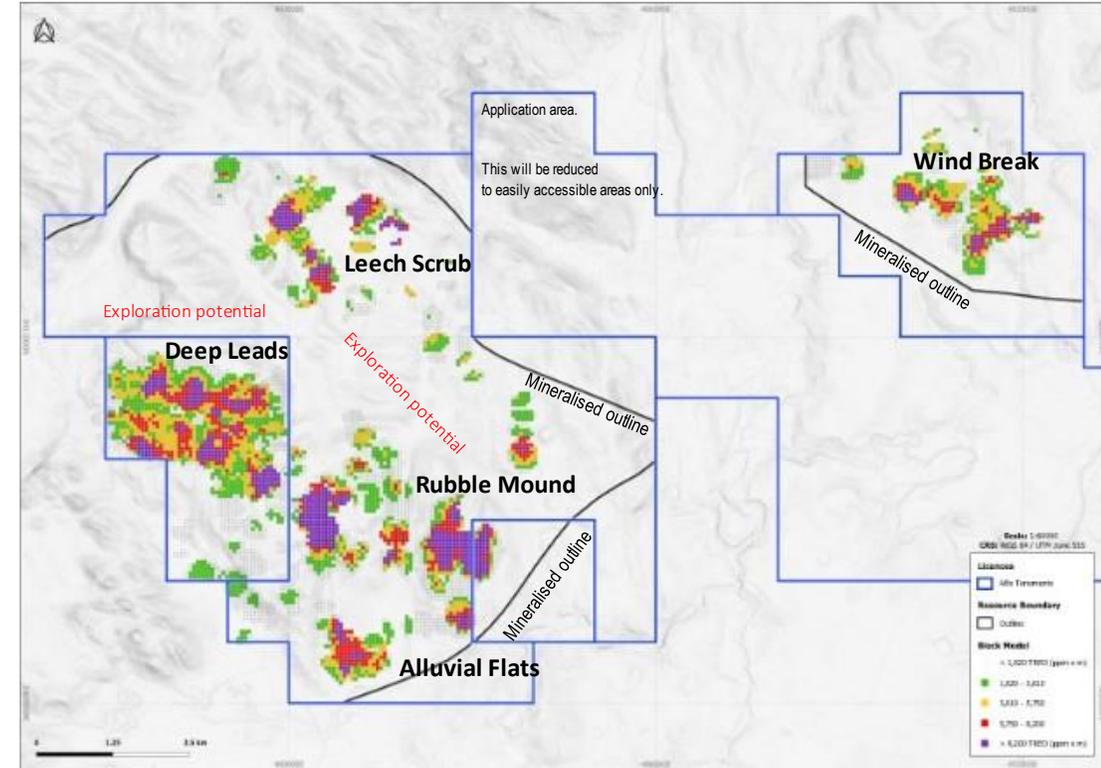
Rare Earths Resource Estimate

- Upgrade to 89 Mt announced May 2024¹
- Over 10-fold increase in 12 months

Size	Cut-off (ppm TREO-CeO ₂)	Mean TREO (ppm)	Mean TREO-CeO ₂ (ppm)	DyTb ³ (%TREO)
89 Mt ²	350	844	652	4.3%

Holes drilled	Metres drilled (m)	Metres assayed (m)	From (m)	To (m)
1,077	9,742	3,843	4.2	12.0

Resource based on only 29% of identified mineralised outline¹



Source: ABX ASX Announcement, 2 May 2024

¹ABX ASX Announcement, 2 May 2024

²41 Mt inferred, 42 Mt indicated and 6 Mt measured

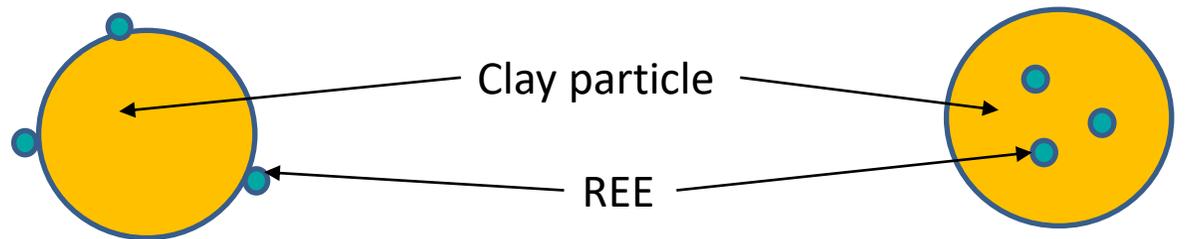
³DyTb = Dy₂O₃ + Tb₄O₇

Not all clays are created equal

Ionic proportion is king

- Chart shows illustrative relationship between ionic proportion and operating cost
- For low ionic proportion, reagent costs alone can be higher than product price

- Position on cost curve heavily dependent on proportion of resource that is ionic
- Industry processing experts indicate that low-cost processing can only be achieved for resources with high ionic proportion



Infrastructure

Transport

- <20 km to major highway
- <100 km to deepwater Bell Bay port

Labour

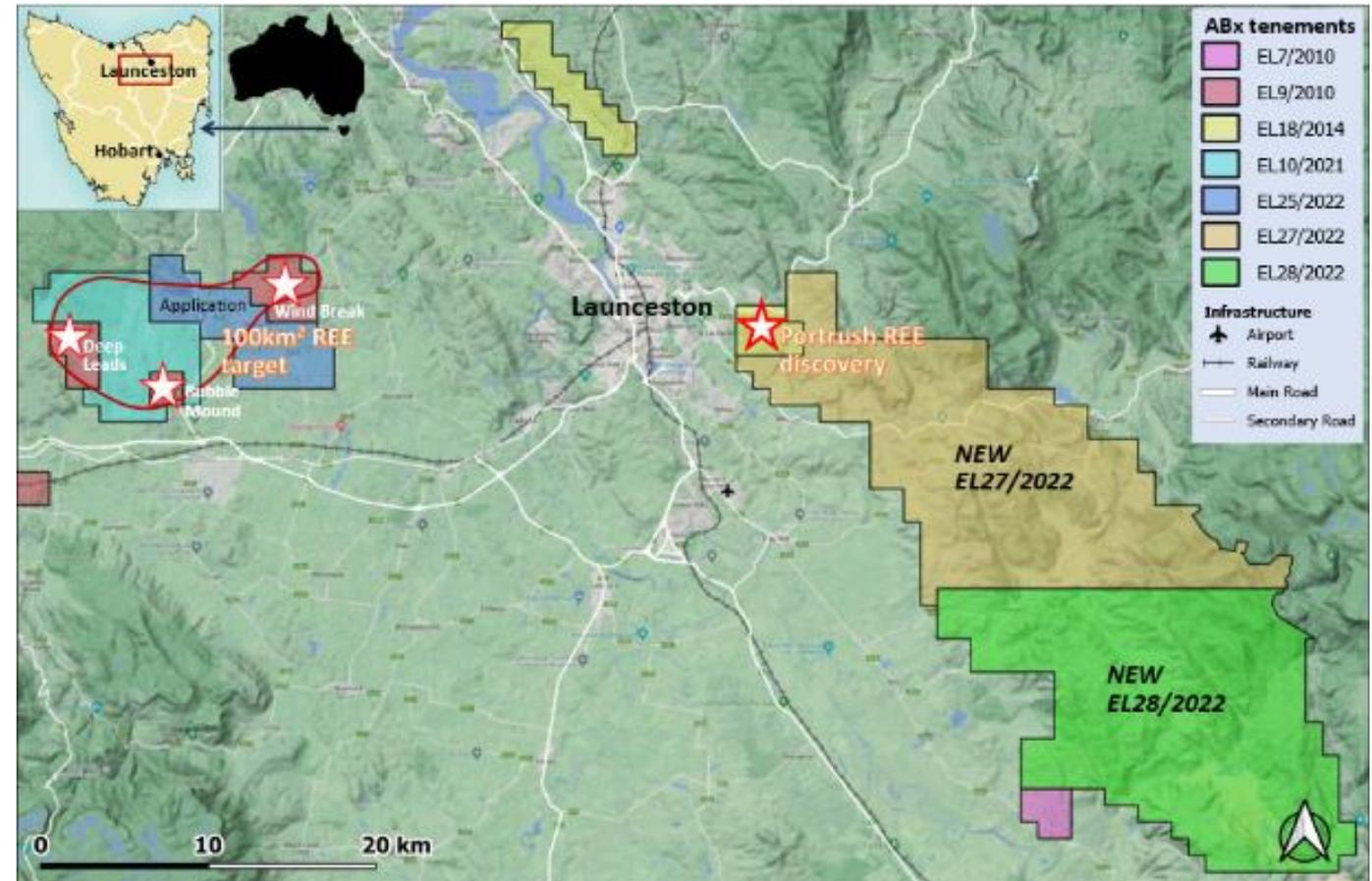
- <50 km to Launceston (pop 65,000)

Water

- High availability in Tasmania

Energy

- Close to major transmission lines



Source: ABX ASX Announcement, 22 January 2024

Jurisdiction

Australia

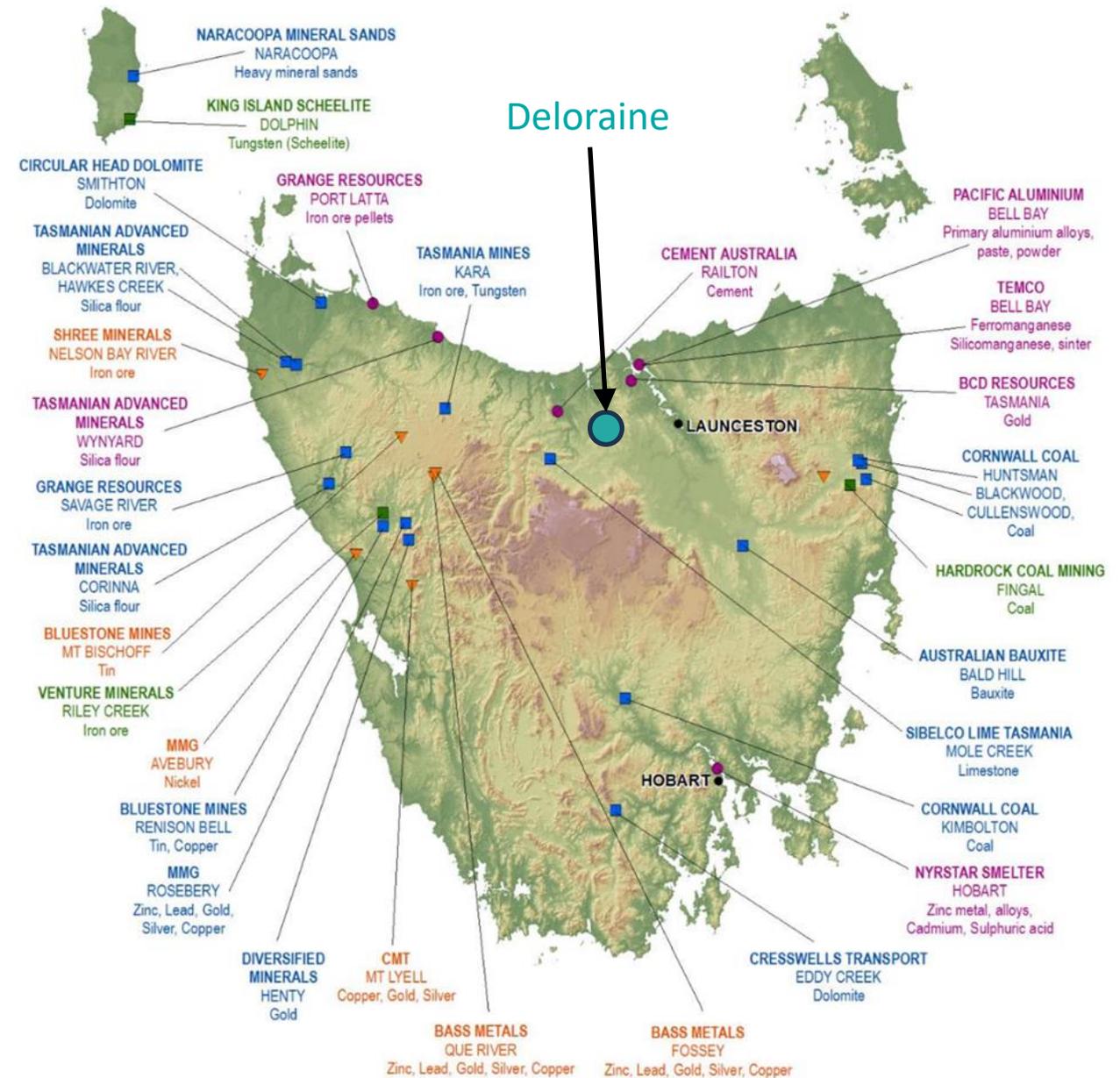
- NATO partner
- Major mining jurisdiction

Tasmania

- Extensive mining history: tin, copper, zinc, lead, gold
- Supportive regulatory environment

Deloraine region

- Mostly commercial forest plantations



Resources

People

- High calibre geologists and engineers, with experience in resource development, process development, and production
- ABx active in Tasmania since 2010
 - Excellent reputation with landholders, regulators and government
 - Mined bauxite 2015 to 2020, now fully rehabilitated
 - Mine lease application in progress for second bauxite mine

Ian Lewy (geology)



- 30 years of senior management and geological experience with multiple commodities, including at WMC
- 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 (chemical engineering)



- More than 20 years with Rio Tinto and CSIRO
- Significant experience in developing and commercialising new processes in minerals and metals industry
- PhD in Chemical & Materials Engineering

Dr Daniel Jewell (chemical engineering)



- 15 years in senior technical roles including at the University of Cambridge, CSIRO, and in industry
- Strong focus on extractive scale-up technologies for metal production for titanium, magnesium, & lithium
- PhD in Chemical Engineering

ABx ticks all the boxes for an ionic clay rare earth project

Highest proportion of DyTb of any clay-hosted resource in Australia

Highest ionic proportion reported in Australia, comparable to operations in China

Mineral Resource



Jurisdiction



Infrastructure



Company Resources



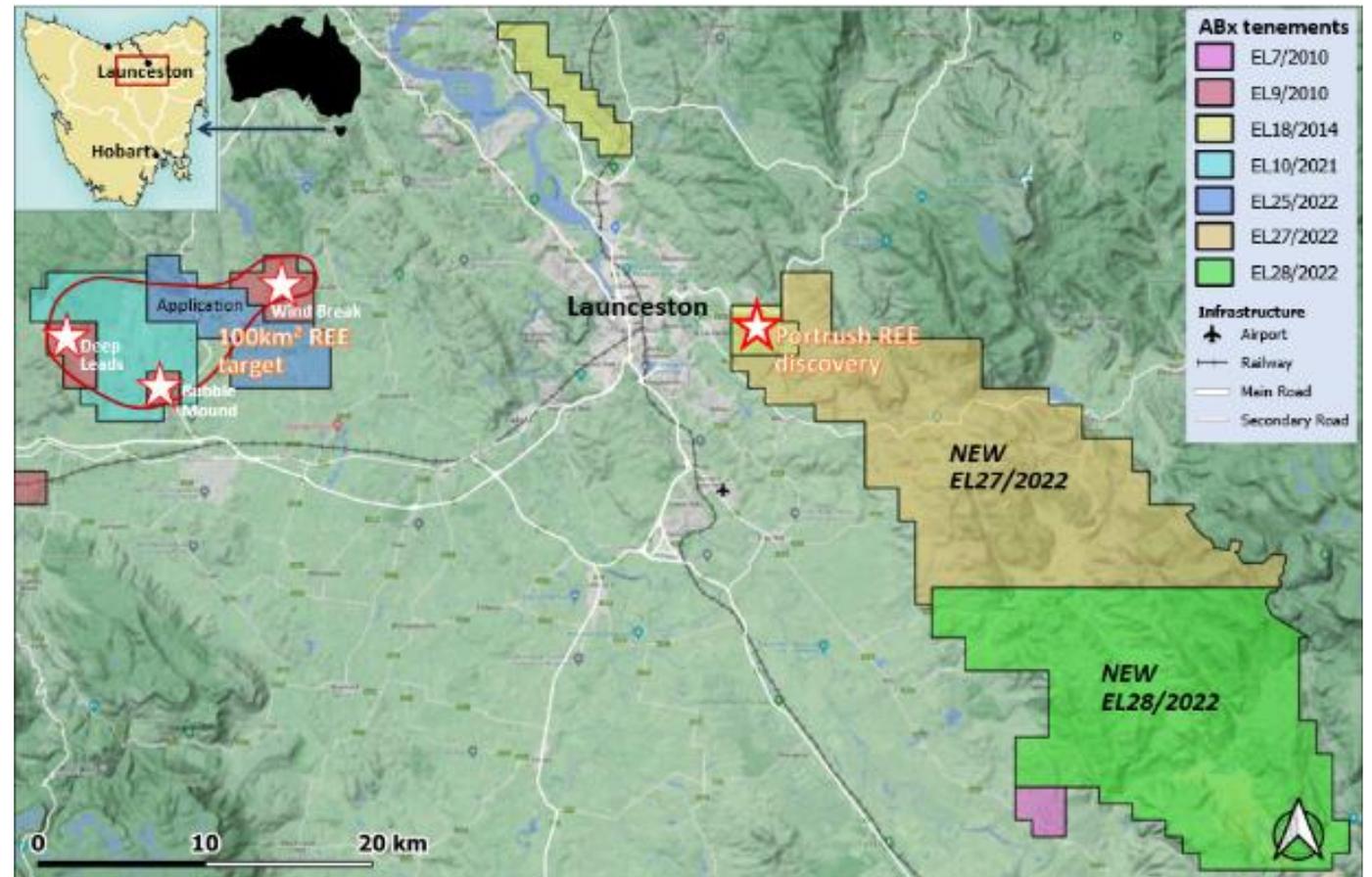
ABx rare earths strategy

Strategy

- Rapidly develop low-cost production of mixed rare earth carbonate (MREC)
- Sell MREC to third party refinery
- We operate only where welcomed

Plan

- Laboratory and pilot plant studies
- Estimate CAPEX and OPEX
- Customer engagement
- Exploration technology
- Exploration campaigns



Source: ABX ASX Announcement, 27 September 2023



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