



(ASX:ABX)

Delivering Materials for a Cleaner Future

International Mining and Resources Conference

ICC Sydney – Wednesday 30 October, 11:30am AEDT

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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.

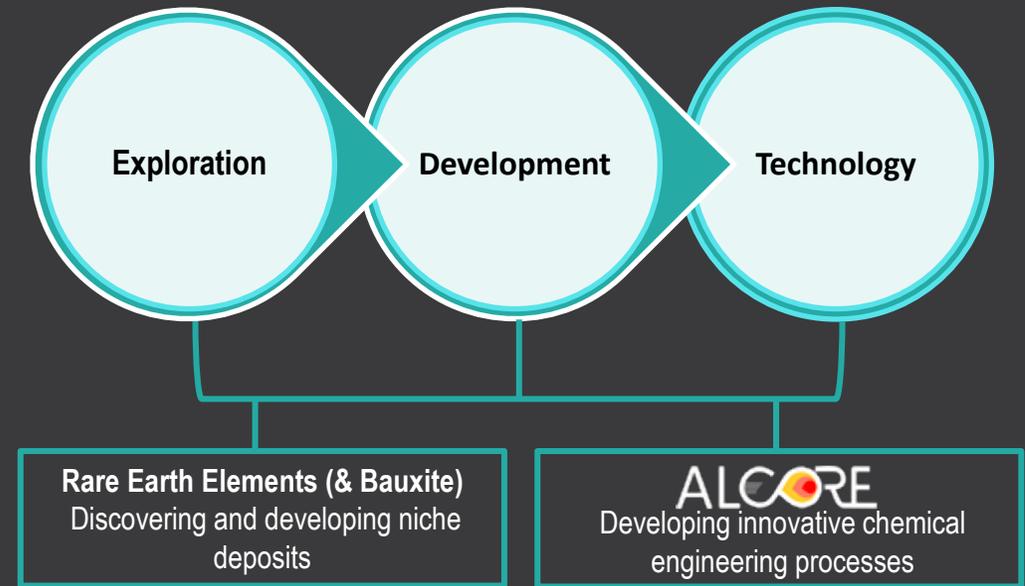
Mr Levy has sufficient experience, which is relevant to the style of mineralisation and type of deposit under consideration and to the activity, which he is undertaking to qualify as a Competent Person as defined in the 2012 Edition of the Australasian Code for Reporting of Exploration Results, Mineral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



Businesses



Ionic adsorption clay rare earths

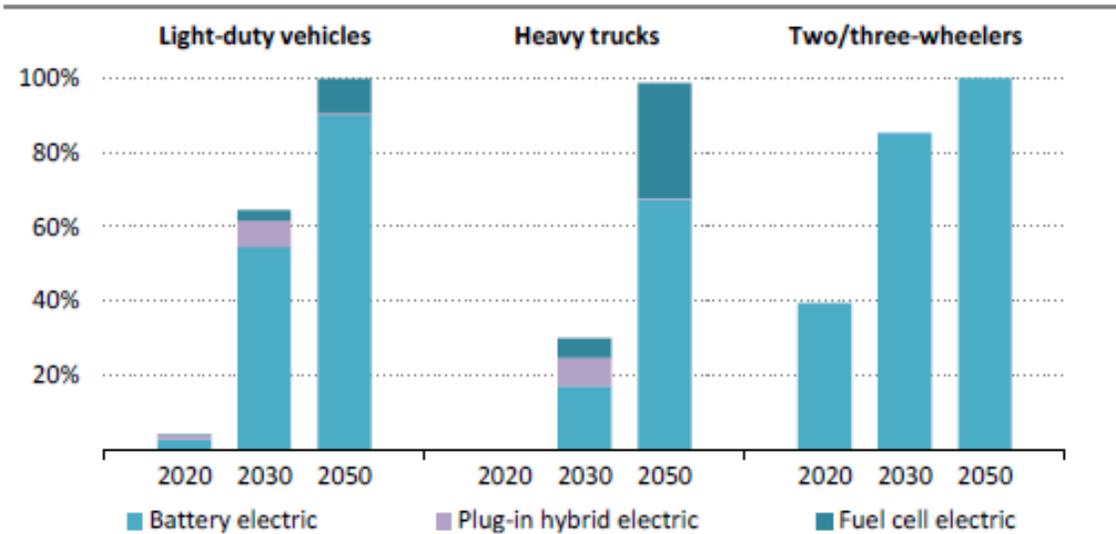


Recycling fluorine waste

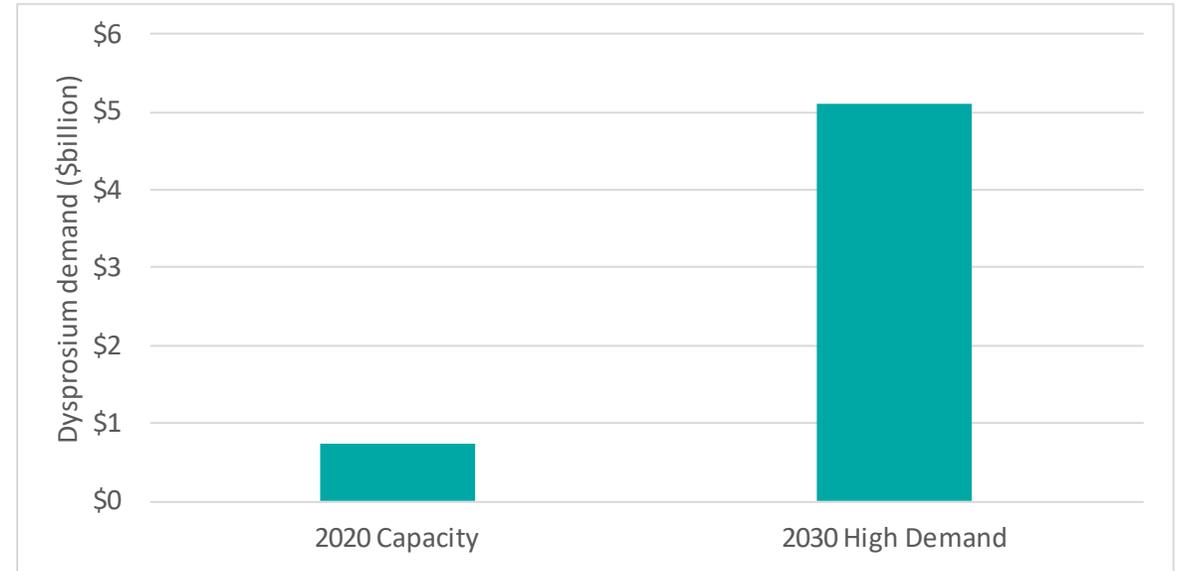
ALCORE

Rare earth market: massive demand growth

Electric motors require permanent magnets containing rare earths



Source: International Energy Agency, Net Zero by 2050, 2021



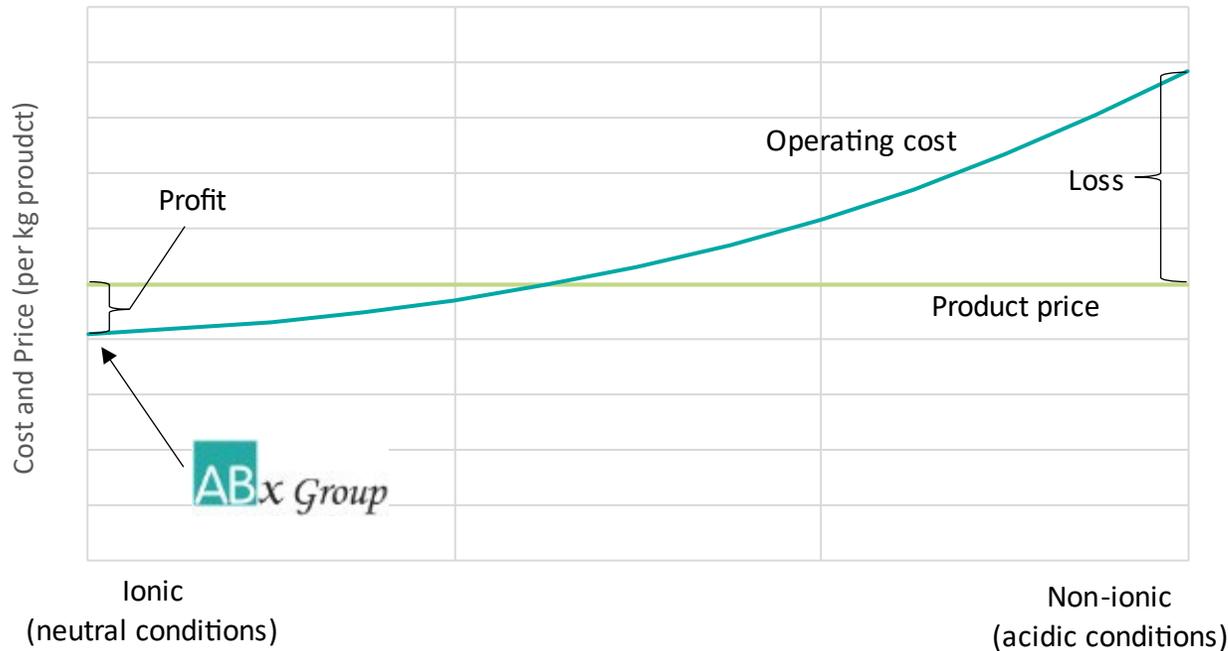
Sources: US DoE, Critical Minerals Assessment, 2023; Ginger International Trade & Investment

- Electric vehicles will become dominant

- Of the rare earths, dysprosium has the most acute supply risk

ABx rare earth resource: attractive metallurgy and grade

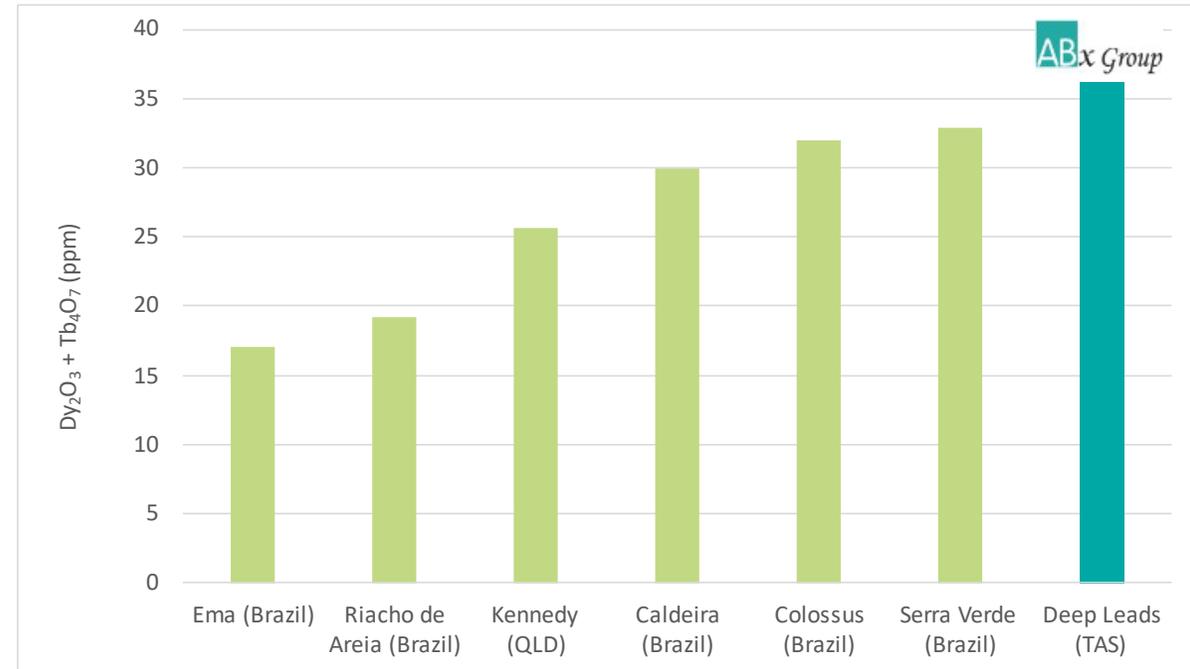
Metallurgy



Illustrative cost curve for clay-hosted rare earth resources

- Extraction from ionic adsorption clay is much lower cost
- ABx has one of the few ionic adsorption clay resources

Grade

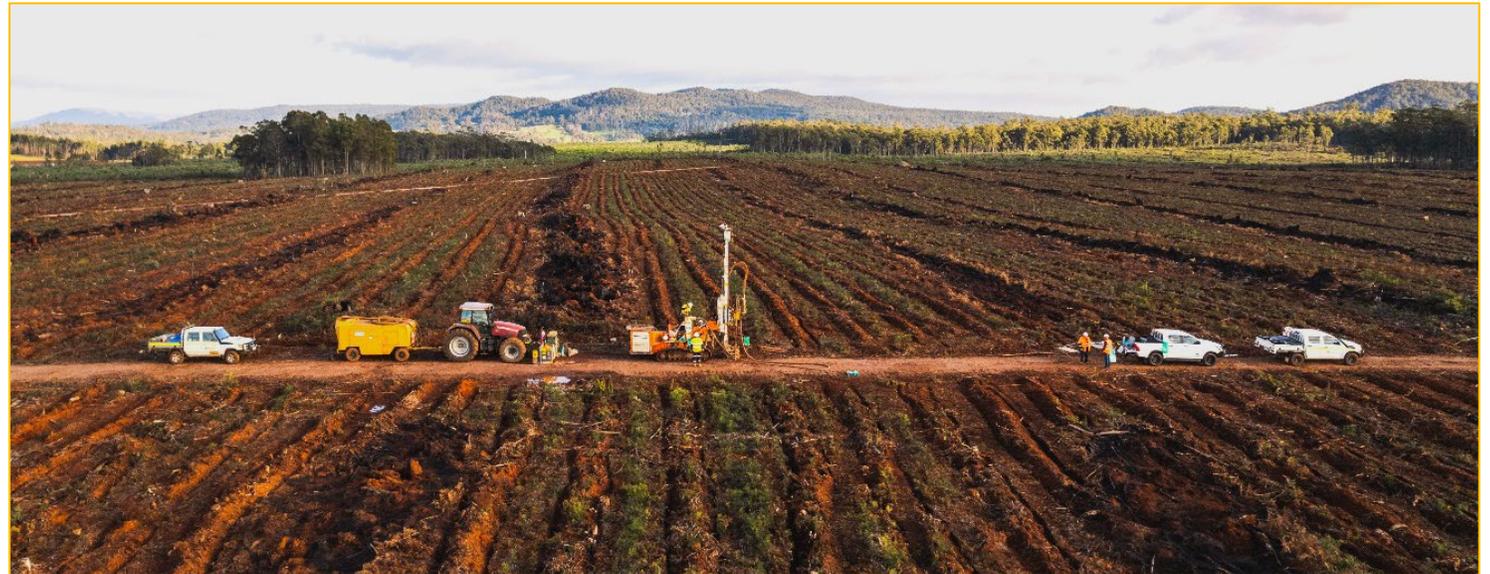
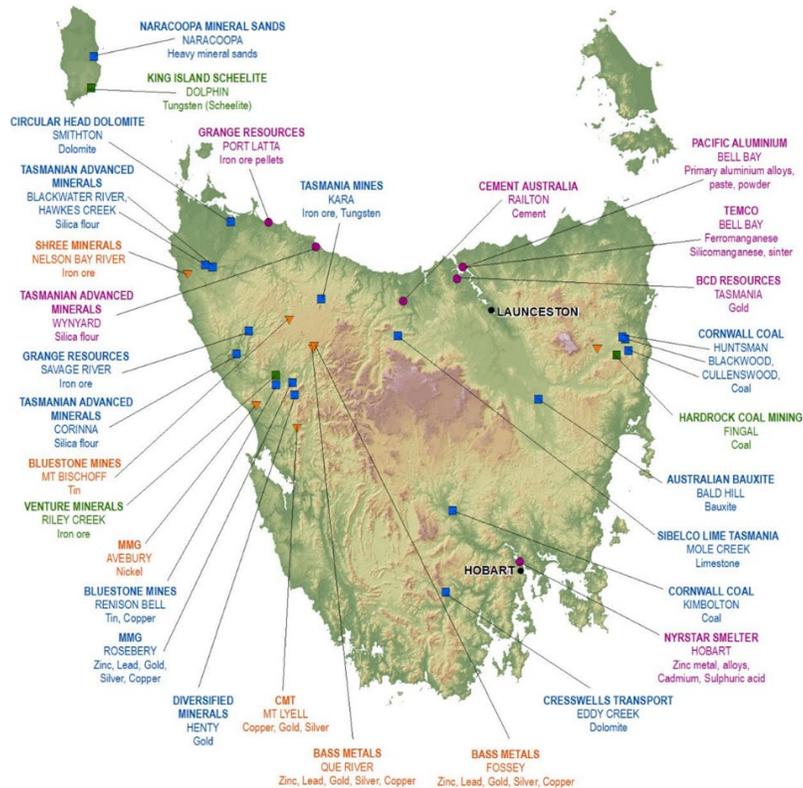


Sources: Company announcements and presentations

- ABx has among the highest Dy and Tb grades, which are the most valuable rare earths

ABx rare earth resource: outstanding location

Plantation forest area in favourable jurisdiction



- ABx resource is located in recently harvested hardwood plantation, close to Launceston and Bell Bay port
- Australian supply highly attractive to global customers

Businesses



Ionic adsorption clay rare earths

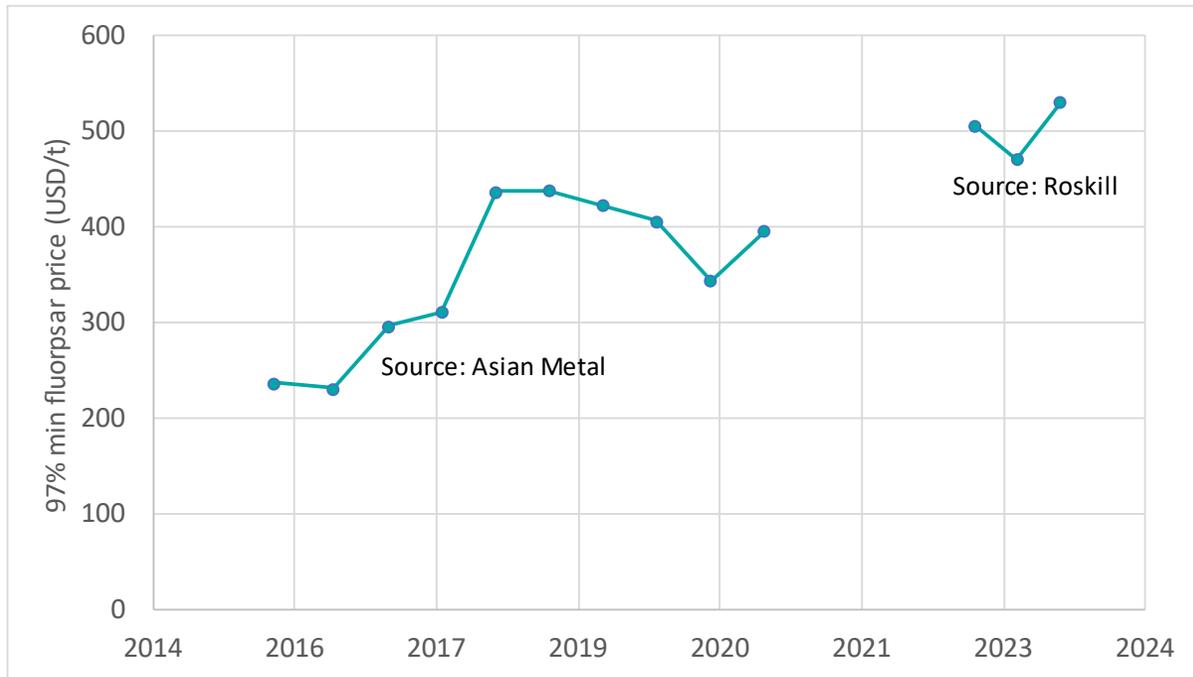


Recycling fluorine waste

ALCORE

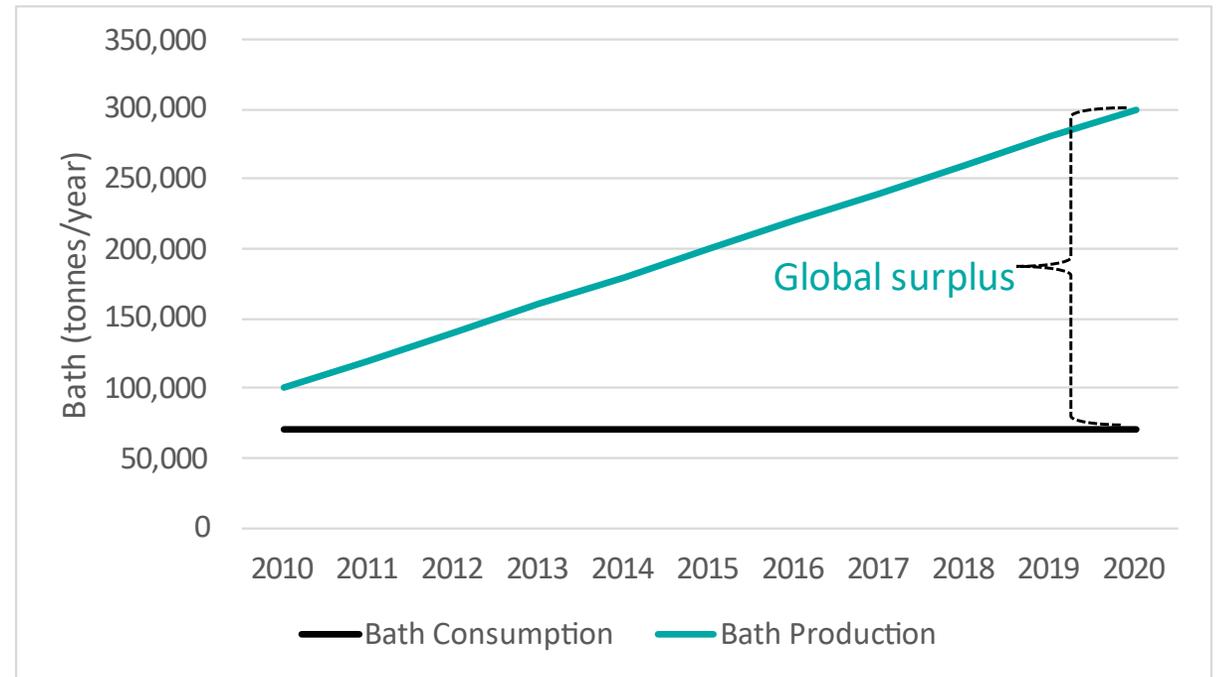
Fluorine recycling is a significant opportunity

Increasing fluorspar prices



Fluorspar is the main source of fluorine, and there are limited new resources

New source of fluorine waste



Source: S.J. Lindsay, Bath generation and management, 10th Australasian Aluminium Smelting Technology Conference, 2011

Increasing surplus of 'aluminium smelter bath'

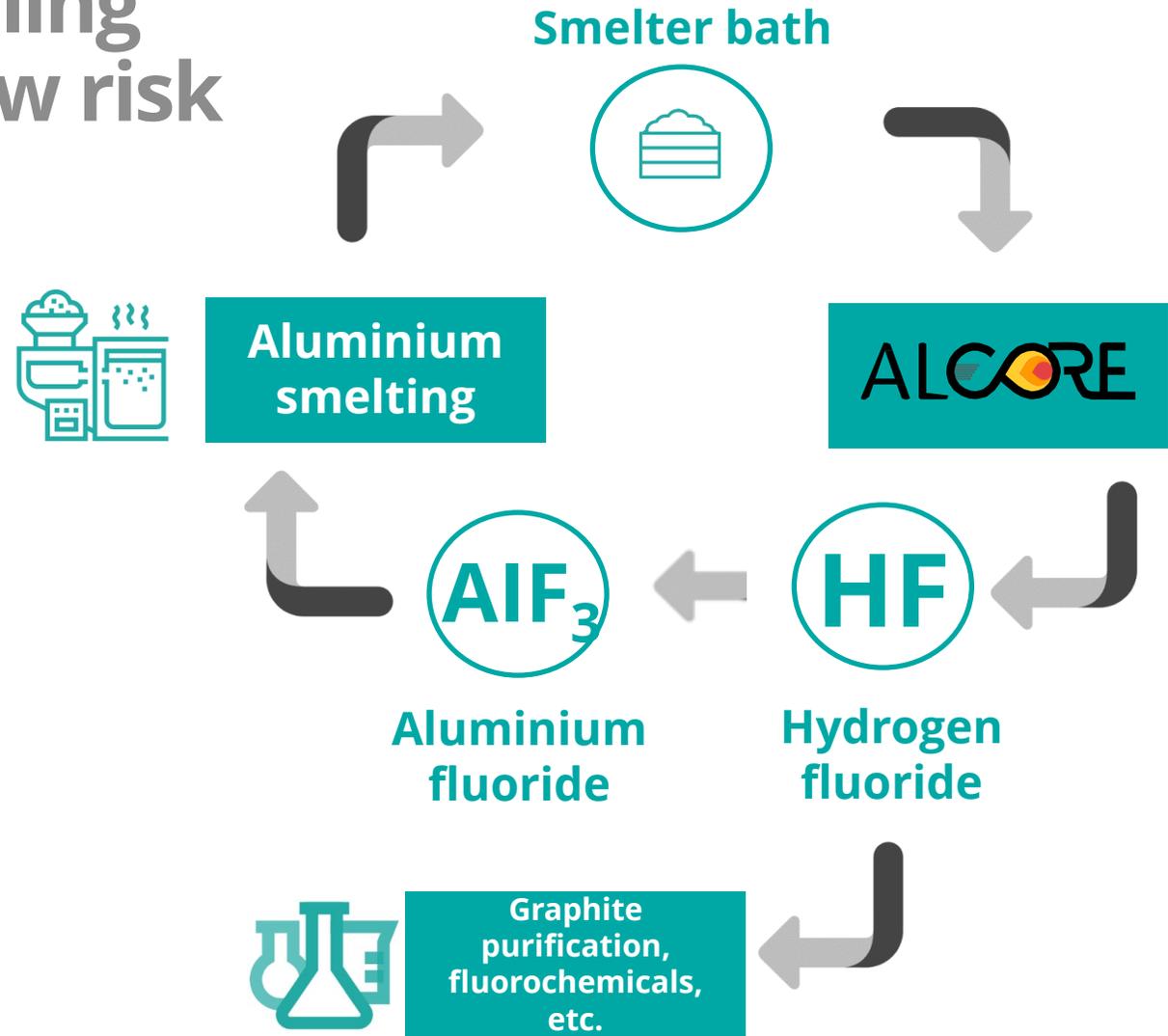
ALCORE fluorine recycling process is relatively low risk

Relatively low technical risk

Process is adaptation of existing commercial process to produce hydrogen fluoride from fluorspar

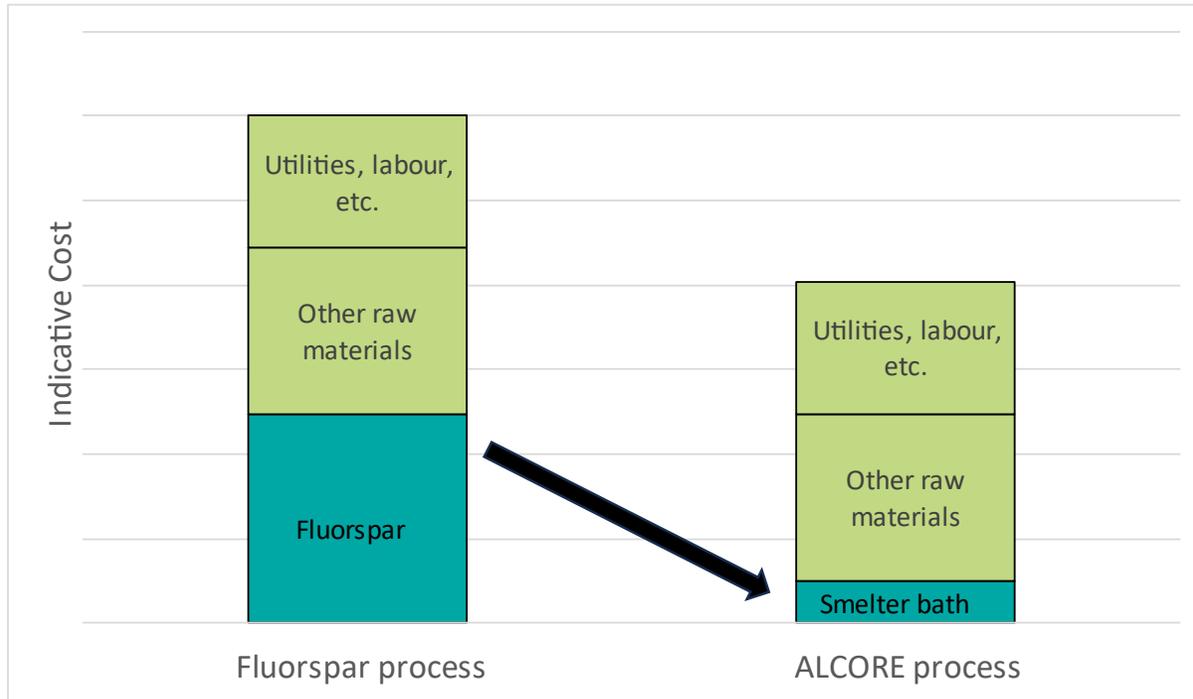
Exemplary demonstration of circular economy

Waste from aluminium smelting used to produce chemical for aluminium smelting



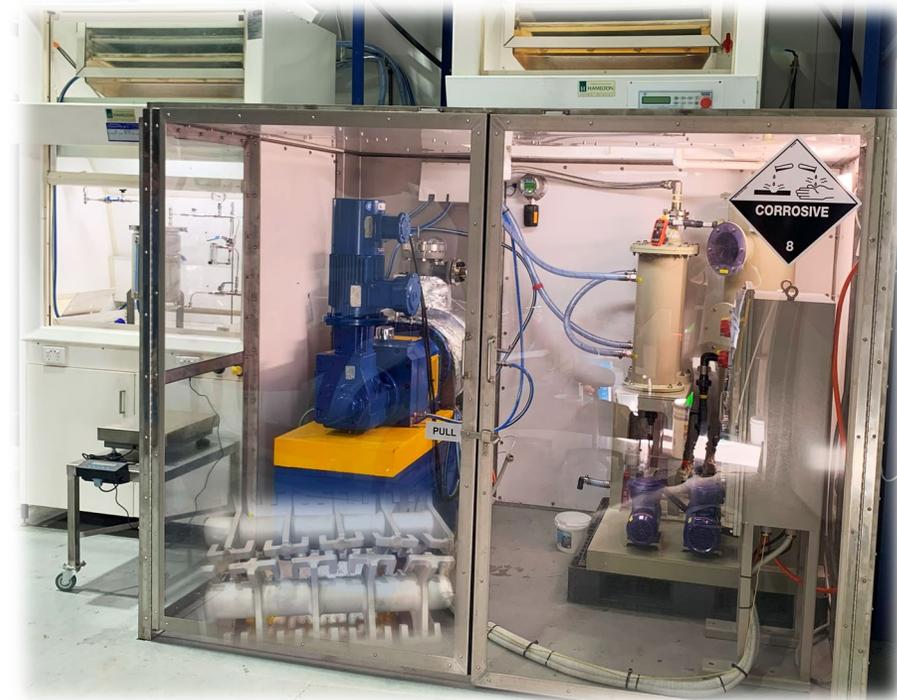
ALCORE process has compelling advantages

Significantly lower operating cost



Substitute high-cost fluorspar with low-cost smelter bath

First mover



At pilot stage



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