



# Impact Minerals Limited

Cost-disruptive High Purity Alumina

**impact.**  
MINERALS

# DISCLAIMER

This presentation contains forward looking statements that are subject to risk factors associated with resource businesses. While all due care has been taken in preparing the report, projections may be affected by a variety of variables and changes in underlying assumptions which could cause actual results or trends to differ materially, including but not limited to: price fluctuations, actual demand, currency fluctuations, drilling and production results, reserve estimates, loss of market, industry competition, environmental risks, physical risks, legislative, fiscal and regulatory developments, economic and financial market conditions in various countries and regions, political risks, project delay or advancement, approvals and cost estimates. Ideas, opinions, conclusions, and recommendations expressed in this report by the vendors are made by personnel using their professional judgment. The vendors do not represent or warrant that these will prove complete or accurate, and any person or corporation acting in response to this report must make their own enquiries and exercise their own professional judgement. The vendors are not liable for any loss or damage (however caused) incurred or suffered by a person or corporation acting on the basis of this report. All data and third-party figures presented are publicly available and referenced where applicable.

The information contained in this Presentation is for information purposes only. It is intended only for those persons to whom it is delivered personally by or on behalf of the vendors. The information in this Presentation is a general background and does not purport to be complete or to provide all information that an investor should consider when making an investment decision or that would be required in a prospectus or product disclosure statement prepared in accordance with the requirements of the Corporations Act 2001 (Cth). It has been prepared by the vendors with due care but no representation or warranty, express or implied, is provided in relation to the fairness, accuracy or completeness of the information. Statements in this Presentation are made only as of the date of this Presentation unless otherwise stated and the information in this Presentation remains subject to change without notice.

# What lies beneath Lake Hope?

A Transformational Acquisition

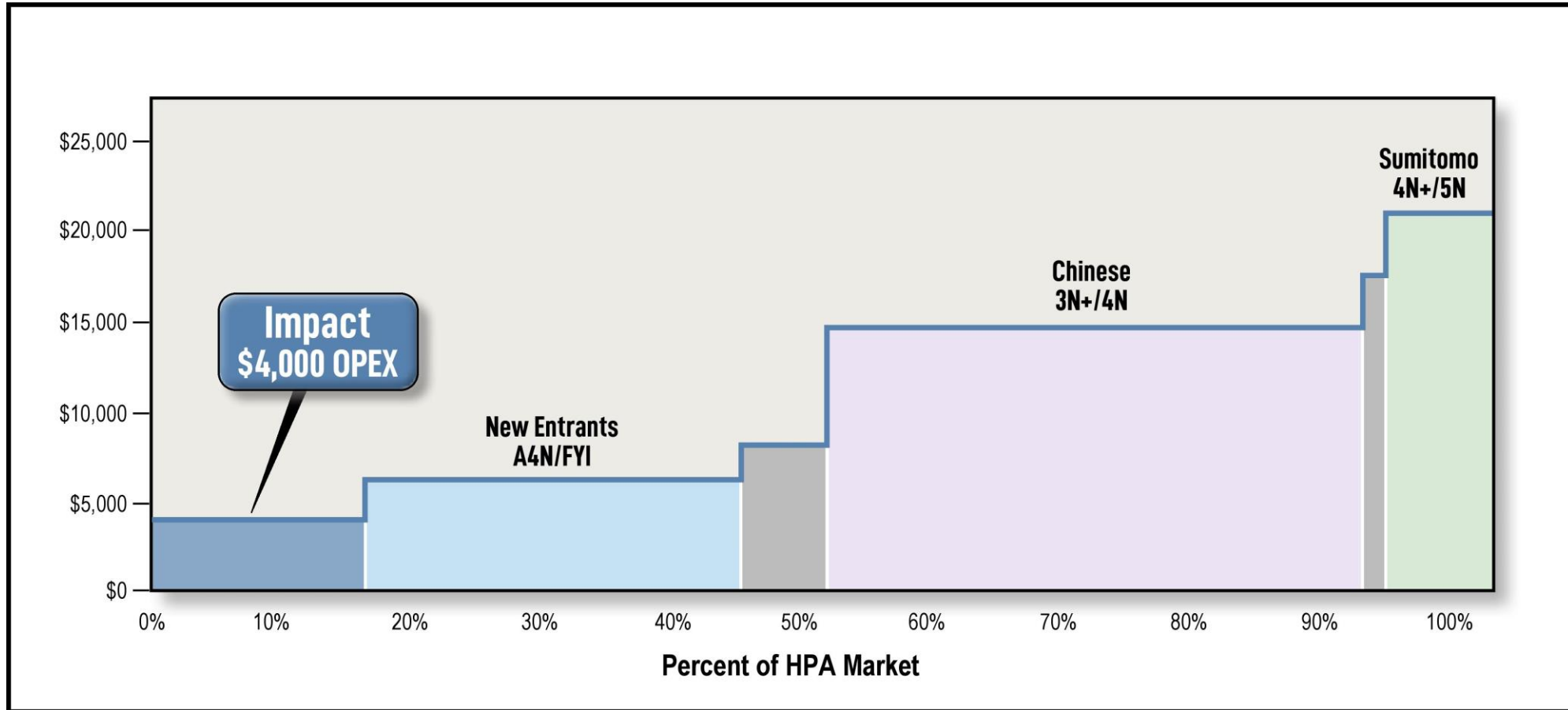
*ASX Release 21<sup>st</sup> March 2023*

# SCOPING STUDY

<b>10,000 tpa 4N HPA</b>		<b>A\$1,334M</b>		<b>A\$253M</b>		<b>55%</b>
initial 25-year mine life		Post-tax NPV <sub>5</sub>		Initial Capital Expenditure		Post-tax IRR
<b>US\$3,264/t</b>		<b>A\$174M</b>		<b>A\$4,877M</b>		
Operating cost (nett of by-product)		Post-tax cash flow per year		Post-tax cashflows		

ASX Release 9<sup>th</sup> November 2023

# Will we be the lowest cost producer?



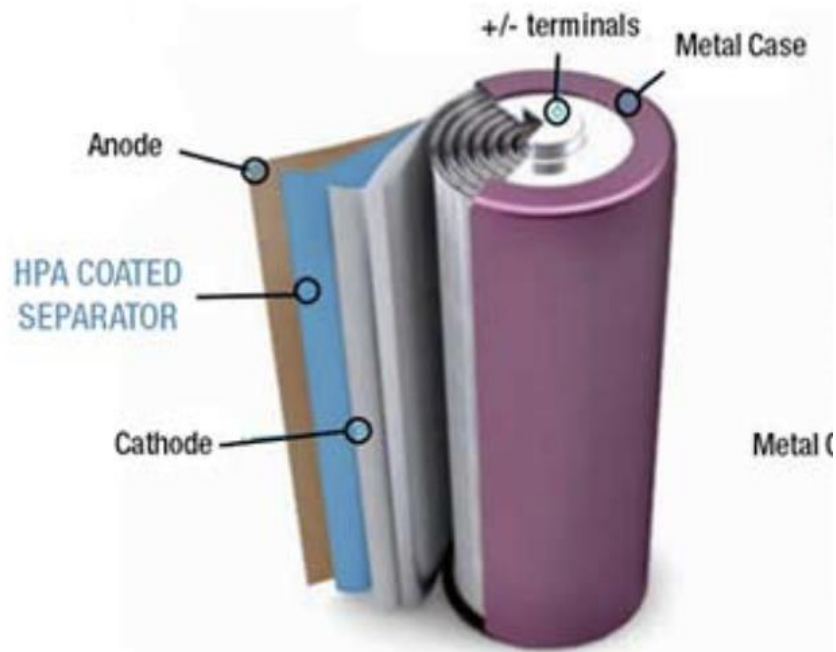
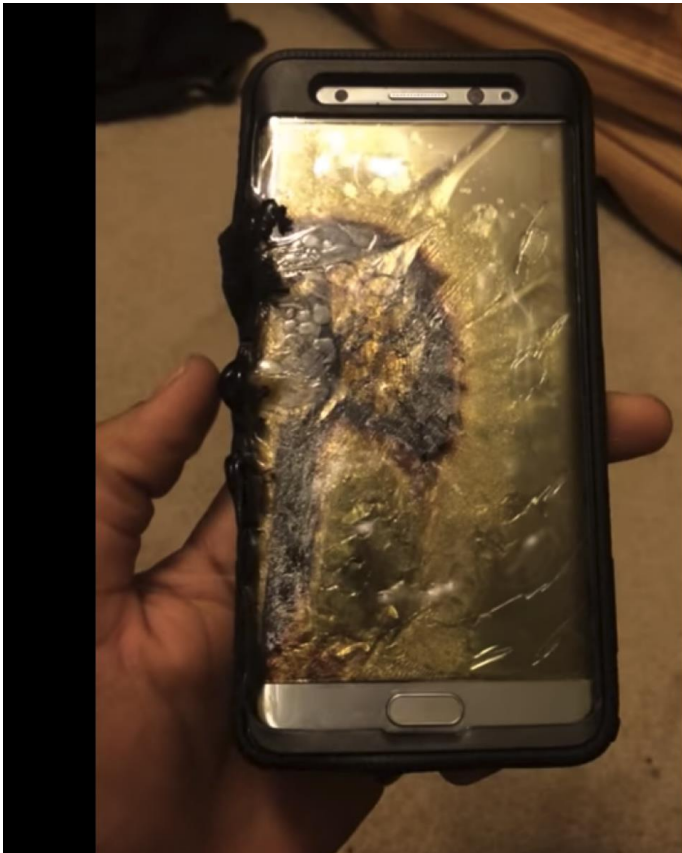
ASX Release 9<sup>th</sup> November 2023

# What is High Purity Alumina?

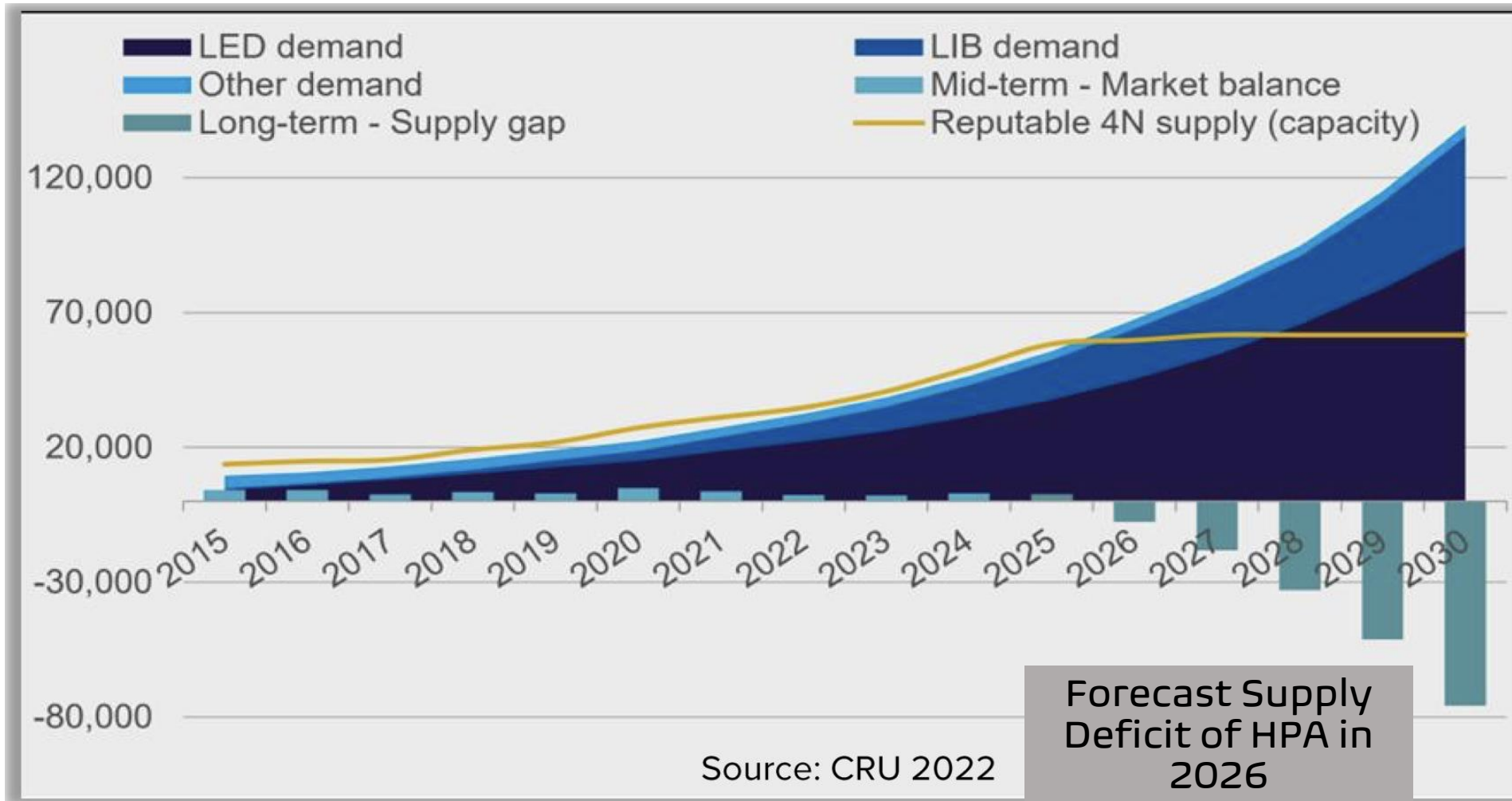
- Alumina (aluminium oxide –  $\text{Al}_2\text{O}_3$ ) with a purity of >99.99% or “4N”
- 3N = 99.9%, 5N = 99.9999%
- Listed on the Australian Critical Minerals List.

# What is HPA used for?

- Coatings & Separators in Lithium-ion batteries
- LED and MicroLED



# Forecast Supply and Demand for HPA



Kindly Provided by Alpha HPA Limited



# What is High Purity Alumina (99.99% Al<sub>2</sub>O<sub>3</sub>) worth?

Purity Grade	Specification	Price Range per tonne	Application
Smelter Grade	99.5%	US\$4,000	Precursor chemical, abrasives
3N HPA	99.9%-99.98%	US\$5,000- US\$15,000	Sapphire, abrasives, catalysts
4N HPA	99.99-99.998%	US\$15,000- US\$25,000	Li-B coatings, sapphire wafer
5N HPA	99.999%	US\$25,000+	Li-B coatings
6N HPA	99.9999%	\$50,000+	Specialty applications

- A High-Margin and High Demand Business

In-house figures researched by Impact Minerals Ltd

# Lake Hope: A multi-decade HPA mine

880,000 Tonnes of Al<sub>2</sub>O<sub>3</sub> (Alumina).

Benchmark production of 10,000 tonnes per annum  
= >50 year mine life

<b>Mineral Resources</b>			
<b>Category</b>	<b>MTonnes</b>	<b>Alumina %</b>	<b>Al<sub>2</sub>O<sub>3</sub> Kt</b>
Indicated	3.19	25.3	808.0
Inferred	0.31	23.4	71.7
<b>Total</b>	<b>3.50</b>	<b>25.1</b>	<b>879.7</b>

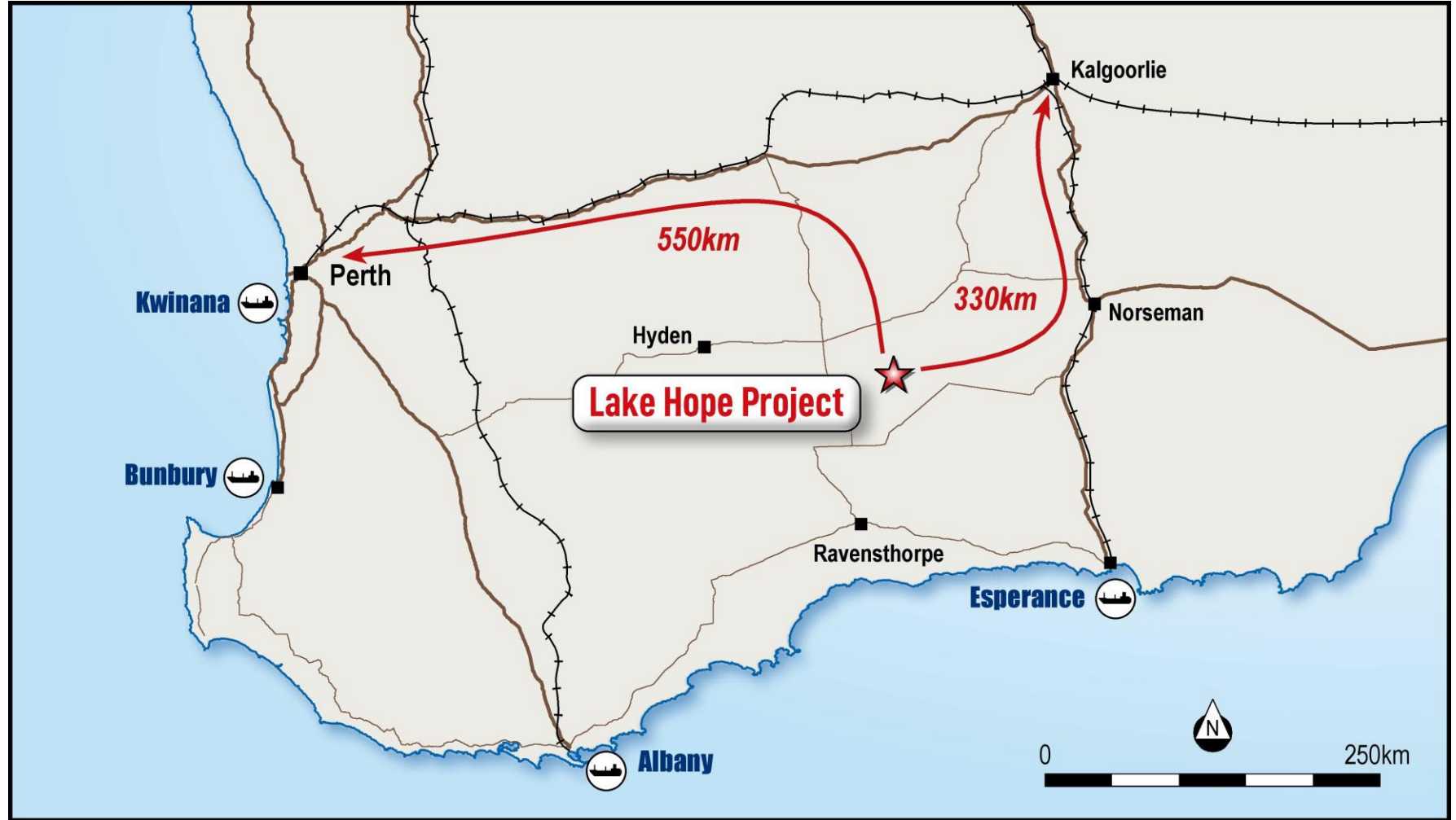
ASX Release 19<sup>th</sup> June 2023

**impact.**  
MINERALS

# Project Location

Western Australia

A Tier One Jurisdiction



# Lake Hope: a unique deposit

West Lake

East Lake

1 km



# The Perfect Orebody?

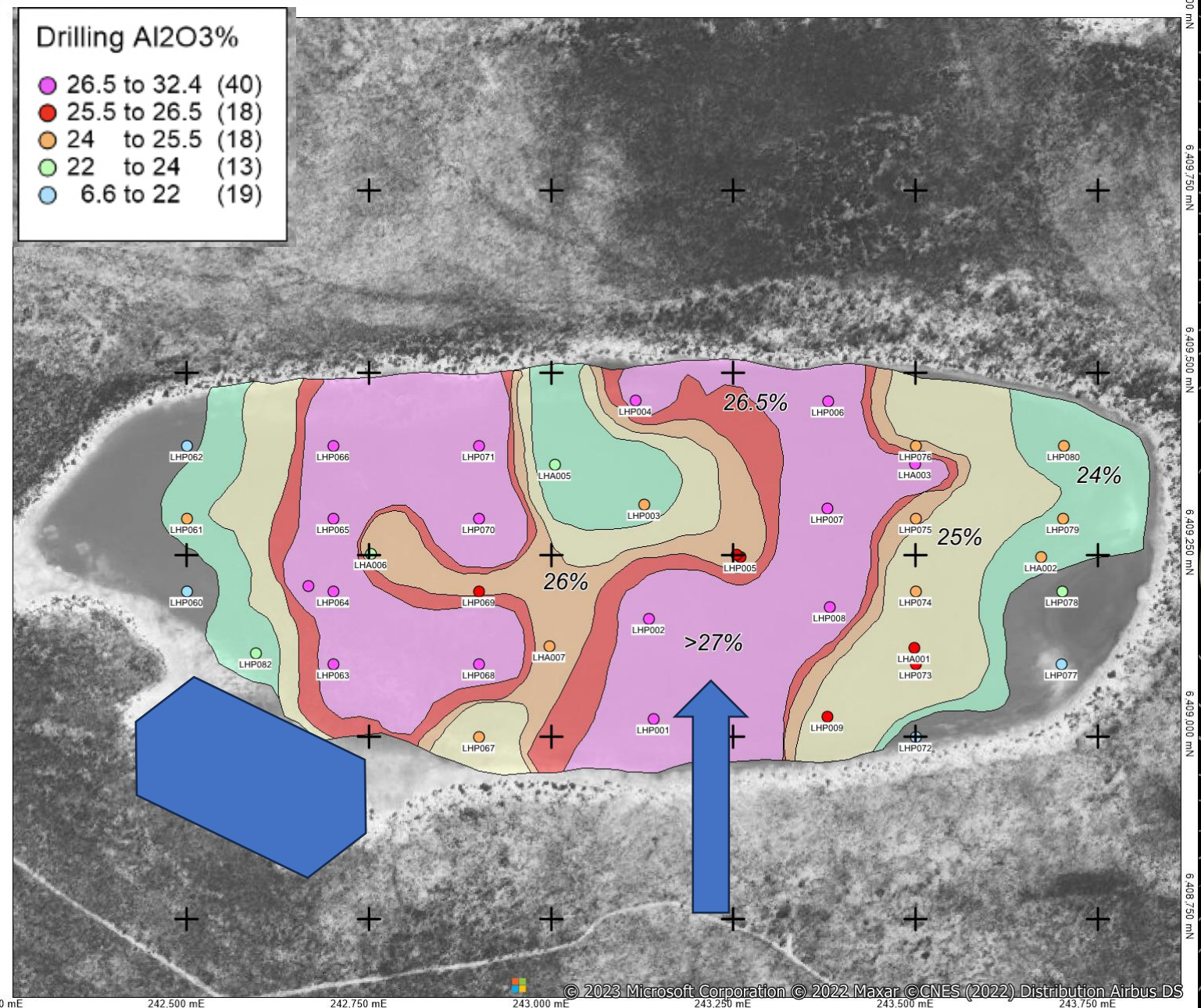


Micron to nanometre sized particles!

# 10-15 Year "starter pit"

## Drilling Al<sub>2</sub>O<sub>3</sub>%

- 26.5 to 32.4 (40)
- 25.5 to 26.5 (18)
- 24 to 25.5 (18)
- 22 to 24 (13)
- 6.6 to 22 (19)

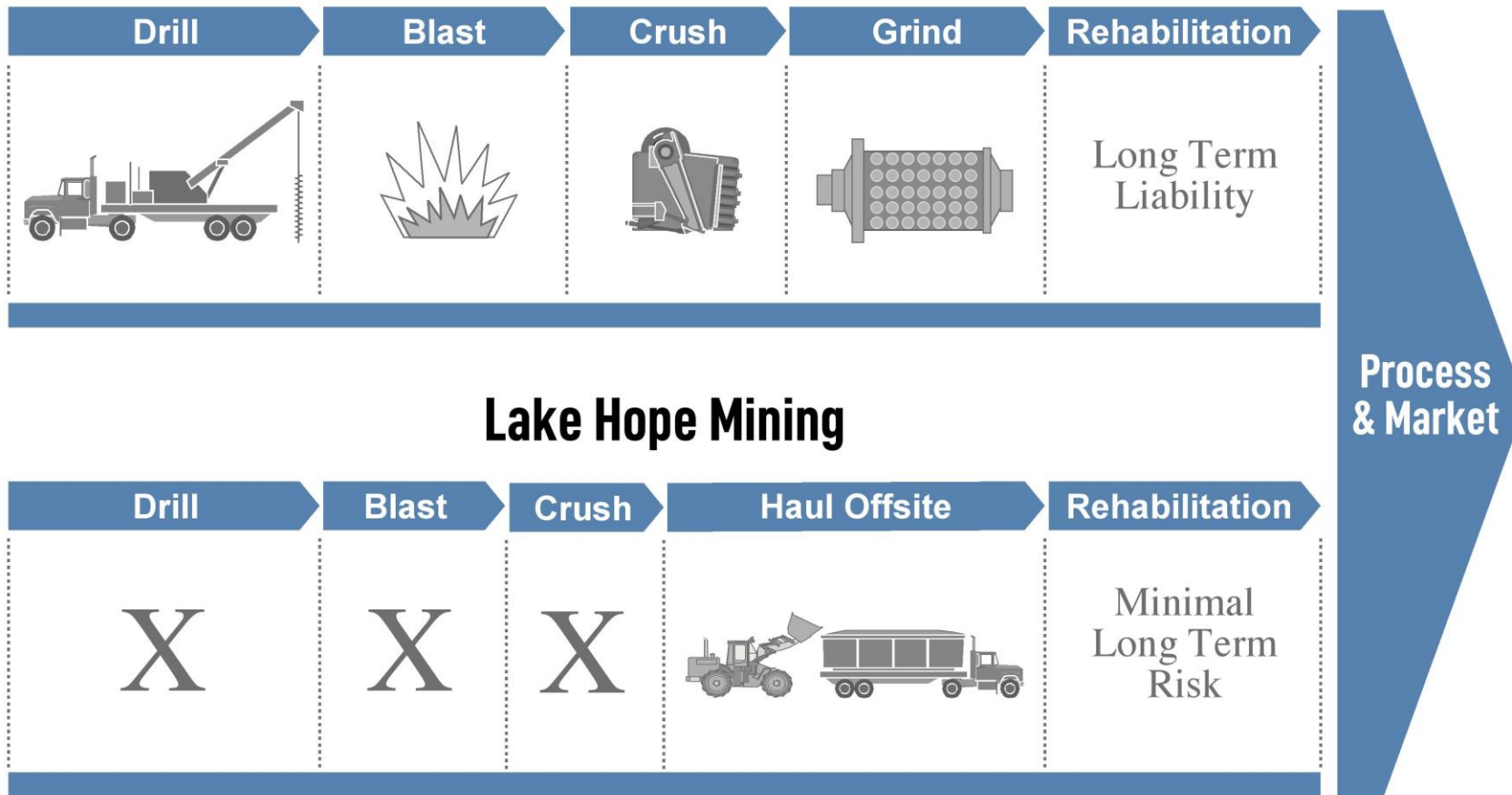


ASX Releases 21<sup>st</sup> March 2023 and  
8<sup>th</sup> November 2023

# Very low cost mining

Less than 5% of Opex

## Hard-Rock Peers



## Lake Hope Mining

X

X

X



Minimal Long Term Risk



Native Title  
Aboriginal  
Corporation

### vision

Upholding the continued connection of Ngadju Nation custodianship for its people, land, cultural heritage and future generations.

### mission

Acting in the interests of Ngadju Native Title rights on behalf of all Ngadju Nation whilst continuing the preservation and protection of Ngadju heritage and culture.

### values

#### CULTURE

Ngadju's history, culture, connection and country influences everything we do.

#### ELDERS & KNOWLEDGE HOLDERS

We are guided by our Elders and Knowledge Holders.

#### INTEGRITY

We are committed to truth, voice and treaty, acting transparently and fairly at all times.

#### RESPECT

We will always treat everyone with respect.

### community



#### Strategic Objective: Build a strong Ngadju community

- Develop positive relationships to support our community
- Foster inclusion, cohesion and belonging for our membership
- Consolidate information to better understand our community.

### commerce



#### Strategic Objective: Strengthen our Ngadju foundations

- Develop financial sustainability through income diversification based on strong relationships, and partnerships
- Continue to improve the effectiveness of our Governance structures
- Ensure our native title rights are secure and benefits are maximised through current native title agreements and outcomes in future agreements.

### culture



#### Strategic Objective: Cultivate our Ngadju culture

- Build intergenerational cultural knowledge
- Caring for Country
- Preservation and advancement of our language



# First Nations: Heritage Clearance Granted

## The Ngadju

The Ngadju community is an immensely proud First Nations people who continue to develop the Ngadju membership. We want all Ngadju people to experience improvements in physical and spiritual health and to assist with teaching and learning Ngadju culture to provide many opportunities to lead connected and fulfilling lives.

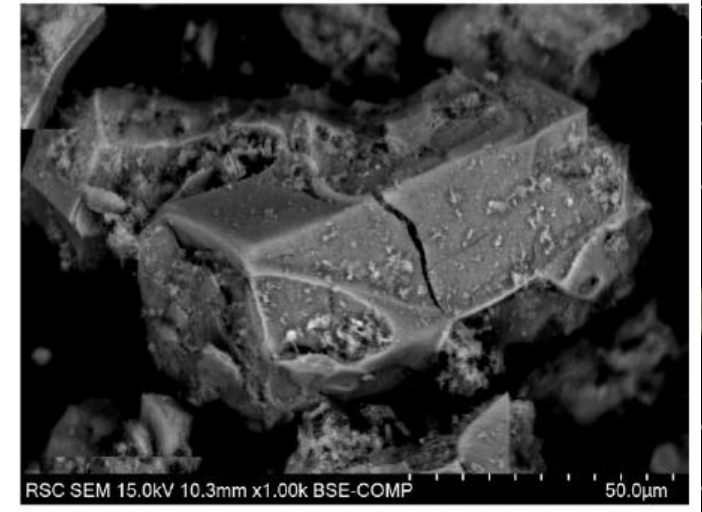
ASX Release 27<sup>th</sup> July 2023

impact.  
MINERALS



# Disruptive Processes to produce 99.99% HPA

- Fine grained minerals give unexpected reaction kinetics.
- Cheap reagents.
- Sulphate Process and LTL Process.
- High recoveries up to 86%
- Saleable waste-products.
- Optimisation during Pre-Feasibility Study.



*ASX Releases 21<sup>st</sup> March 2023, 18<sup>th</sup> October 2023, 19<sup>th</sup> February 2024 and 27<sup>th</sup> February 2024*

**impact.**  
MINERALS

# Four Pillars of the PFS

Approvals



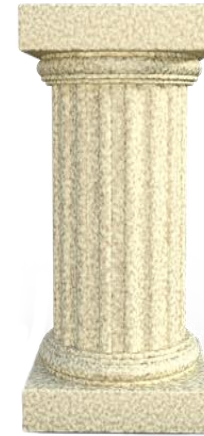
Metallurgical  
Test Work



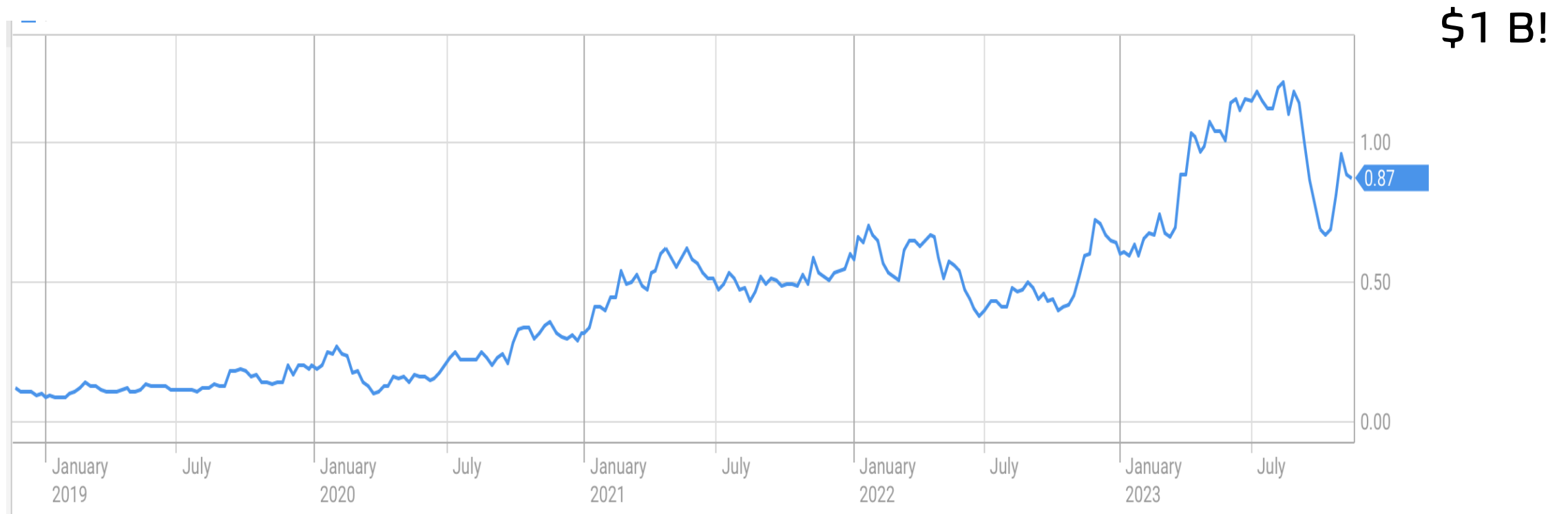
Process  
Plant



Product  
Marketing



# The Alpha HPA Journey (ASX:A4N)



\$10 M

\$1 B!

# About Impact Minerals (ASX:IPT)

## Board of Directors and Management

Non-Executive Chairman: Peter Unsworth  
 Managing Director: Dr Mike Jones  
 Non-Executive Director: Dr Frank Bierlein  
 Non-Executive Director: Paul Ingram  
 Exploration Manager: James Cumming  
 Lake Hope Manager: Roland Gotthard

## Capital Structure

Listed on ASX	November 2006
Shares on Issue	2,864 million
Options/ Perf Rights	342M unlisted 158M IPTOB
Share Price	1.5c
Market Cap	\$42million
Cash	A\$2.0 million

## Shareholders

Bunnenberg Family	15.7%
ABC Beteiligungen	7.7%
Directors	1.1%
Top 20	41%
Top 50	49%
No of Shareholders	4,530



1 Year  
Share  
price

impact.  
MINERALS

# Forward Plan

2023

Maiden Resource  
Scoping Study and PFS start  
Environmental Baseline studies  
Optimisation

2024

Completion of PFS  
Qualification Samples  
Start 10 tpa Pilot Plant  
Mining Lease

2025

Pilot Plant production  
Complete DFS  
Mining Lease Granted?  
Qualification Trials

2026

1000 tpa Demo Plant  
Offtake Agreements  
Financing



# COME WITH US ON THE JOURNEY

- We aim to be one of the lowest-cost producers of HPA globally.
- We have a unique deposit in a Tier 1 Jurisdiction.
- We have a cost-disruptive metallurgical process now in PFS.
- We will build out our capabilities in metallurgy and final product specification.
- We will deliver into a high-margin, growth market with significant upside potential.