

ULTRA PURE – LOW CARBON ALUMINIUM MATERIALS

ASX: A4N

CAUTIONARY STATEMENT

The Definitive Feasibility Study (DFS) referred to in this presentation has been undertaken to assess the technical and financial viability of the HPA First The DFS is based on the material project. assumptions about the availability of funding and the pricing received for HPA. While the Company considers all of the material assumptions to be based on reasonable grounds, there is no certainty that they will prove to be correct or that the outcomes indicated by this DFS will be achieved. To achieve the range of outcomes indicated in the DFS, additional funding will be required. Investors should note that there is no certainty that the Company will be able to raise the amount of funding when needed. It is also possible that such funding may only be available on terms that may be dilutive to or otherwise affect the value of the Company's existing shares. It is also possible that the Company could pursue other 'value realisation' strategies such as a sale, partial sale or joint venture of the HPA First project. If it does, this could materially reduce the Company's proportionate ownership of the HPA First project. Given the uncertainties involved, investors should not make any investment decisions based solely on the results of the DFS.

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This presentation contains certain forward-looking statements with respect to the financial condition, results of operations, and business of the Company and certain plans and objectives of the management of the Company. These forwardlooking statements involve known and unknown risks, uncertainties and other factors which are subject to change without notice and may involve significant elements of subjective judgement and assumptions as to future events which may or may not occur. Forward-looking statements are provided as a general guide only and there can be no assurance that actual outcomes will not differ materially from these statements. Neither the Company, nor any other person, give any representation, warranty, assurance or quarantee that the occurrence of the events expressed or implied in any forward-looking statement will actually occur. In particular, those forwardlooking statements are subject to significant uncertainties and contingencies, many of which are outside the control of the Company. A number of important factors could cause actual results or performance to differ materially from the forward Investors should consider looking statements. the forward looking statements contained in this DFS in light of those disclosures.

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ALPHA HPA: INTRODUCTION

We are a technology/industrial chemical company

We make ultra-high purity aluminium products with a worlds first process which are:

CRITICAL RAW MATERIALS FOR DE-CARBONISATION
Our proprietary process delivers us the competitive edge

HIGH PURITY - HIGH MARGIN - LOW CARBON

we are commercialising in 2 Stages as the

HPA FIRST PROJECT

STAGE 1 – IN PRODUCTION

EXPANDING WITH A\$15.5M CMDP GRANT

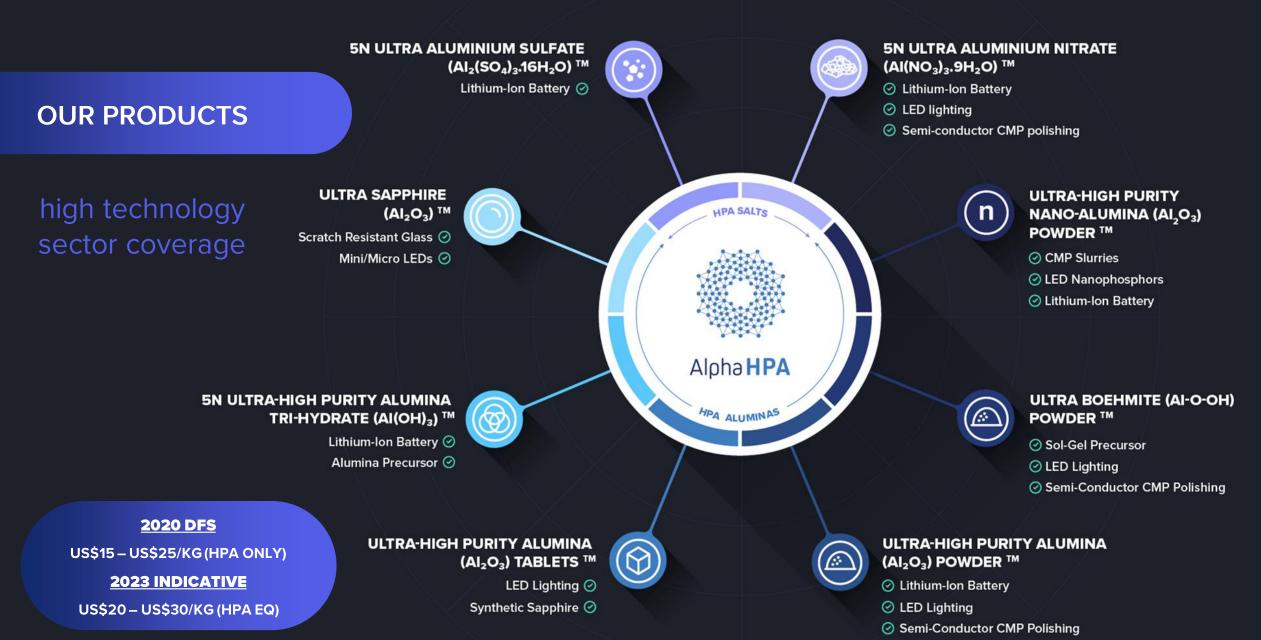
STAGE 2 - MOVING TO F.I.D







Alpha **HPA**



PRODUCTS FOR DE-CARBONISING TECHNCOLOGIES

Product demand linked to sector growth + decarbonisation + supply chain de-risking

E-MOBILITY



- HPA for Li-B separators
- HPA for Li-B cathode
- HP precursors for Li-B anodes

SEMICONDUCTORS



- Boehmites for CMP slurry
- Al-Nitrates for CMP slurry
- Nano HPA for CMP slurry (for SiC chips)

LED



- HPA for LED sapphire substrates
- HPA for LED phosphors
- Synthetic sapphire glass



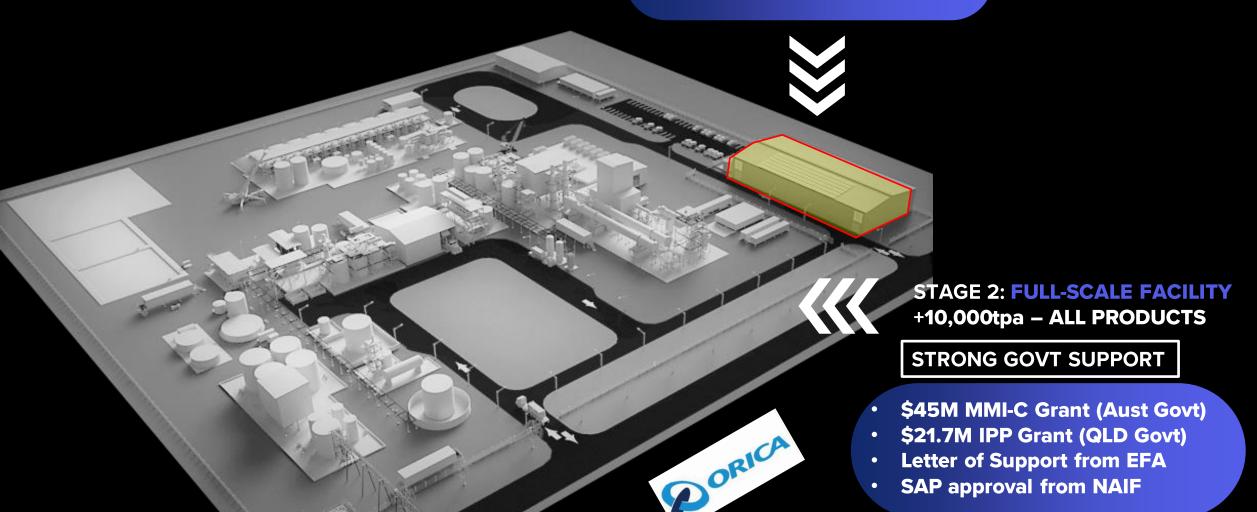




PROJECT LAYOUT:

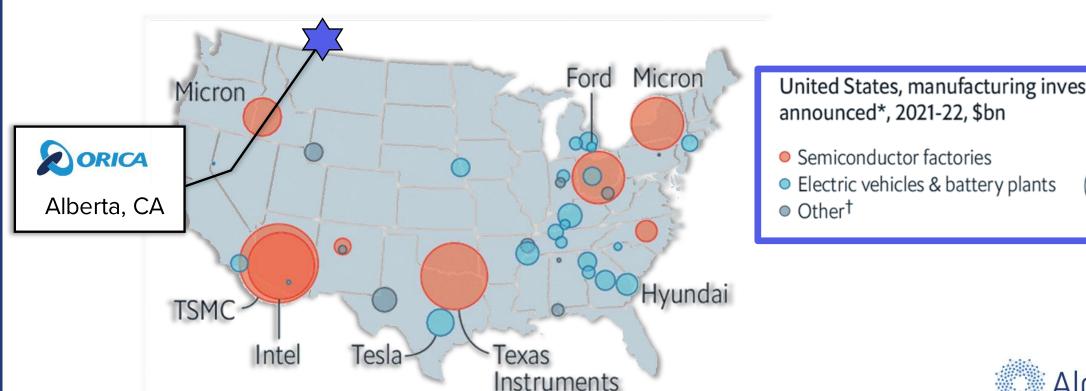
STAGE 1: IN PRODUCTION +350tpa - ALL PRODUCTS

A\$15.5M Critical Minerals Grant
Under Deployment



ORICA STRATEGIC INVESTMENT:

- ASX 100 Company Orica Ltd (ASX: ORI) acquired a 5% strategic interest in Alpha HPA (Nov 2022)
- Orica and Alpha have worked together on the HPA First Project since 2019
- The investment builds upon binding arrangements to supply chemical reagents and offtake byproducts at the HPA First Project, Gladstone
- Significant external endorsement of the capability, safety and operability of the process
- MoU signed to assess high purity aluminium products plant in North America (Alberta)



United States, manufacturing investments



*Source: White House























ESG: INDEPENDENT CERTIFICATION















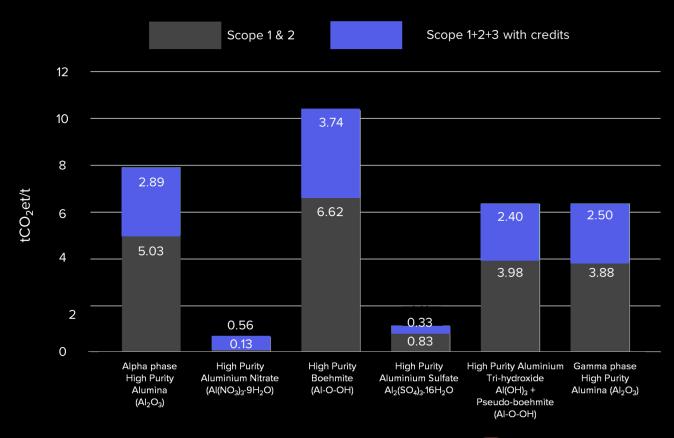


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WORLD LEADING EMISSIONS

50-70% lower CO₂ emissions over incumbent (alkoxide) process



Independent emissions analysis by



~71% lower total emissions in feedstock and production process combined compared to the incumbent process

EMISSIONS REDUCTIONS

- 1. We do not use Al metal as feedstock
- 2. We recycle our reagents
- 3. We use 100% renewable energy



ALPHA SAPPHIRE: ADDING DOWNSTREAM VALUE TO HPA







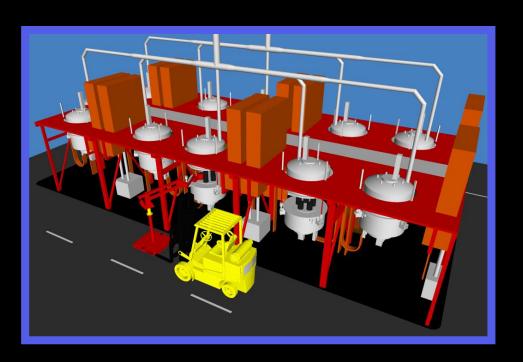


- March 2023: Agreements with Ebner-Fametec for entry into sapphire glass production
- **June 2023**: Expanded agreements for up to 1,000 growth units
- Unique supply/demand dynamics, favourable to new market entry
- Estimated 10x net revenue uplift per alumina unit
- September 2023: \$30M QIC funding to secure sapphire business for QLD
- November 2023: \$40M equity financing to match QIC First 50 units fully funded





ALPHA SAPPHIRE: UNIQUE SECTOR OPPORTUNITY





	Annual EBITDA (USD) - post QIC Royalty			
	Per single growth unit	Per 50 growth units	Per 100 growth units	
Base case	\$516,000	\$25,800,000	\$51,600,000	
High case	\$693,000	\$34,600,000	\$69,300,000	

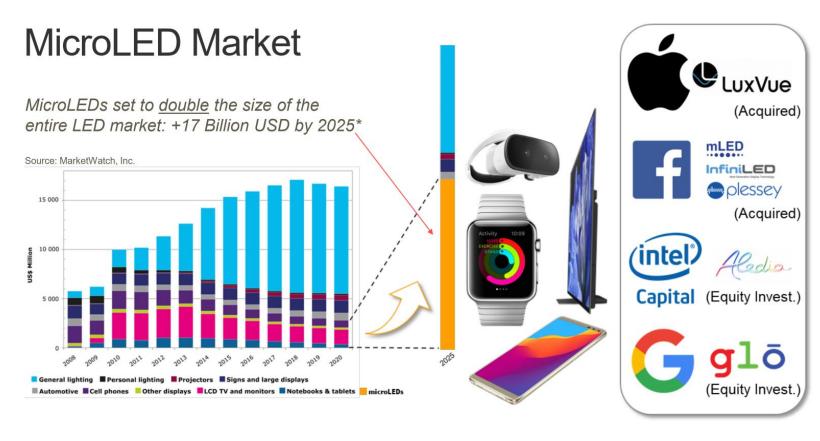
- **Technology Disruption:** Access to new Ebner-Fametec Technology
- Supply Crunch: End-user desire to de-link from Russia-China production
- **Demand Pull:** Major new demand from micro-LED adoption





Micro LEDs: THE LED MARKET MULTIPLIER

- Market analysts have forecast the adoption of micro-LEDs since 2015
- The recent confirmation that Apple is now making the move is considered highly significant, with the potential
 to double existing LED market
- https://appleinsider.com/articles/23/01/15/apple-plans-microled-displays-in-everything-after-2024-apple-watch-ultra-update
- https://www.bloomberg.com/news/articles/2023-01-11/apple-to-begin-making-in-house-screens-in-2024-in-shift-away-from-samsung?sref=mNNF3hqD
- https://www.electrooptics.com/analysis-opinion/microleds-prepare-take-flight





OUR CUSTOMERS AND PARTNERS:

Existing customers, marketing agents and key business partnerships

































CORPORATE SNAPSHOT

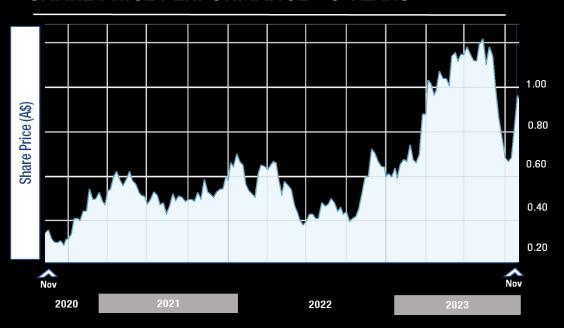
TRADING INFORMATION

ASX CODE	A4N
Share Price (20/11/2023)	~\$0.865c
52-week trading range	\$0.56 – \$1.22
Issued Shares	933.8M

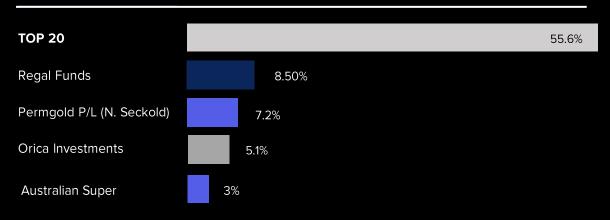
CAPITAL STRUCTURE

Issued Shares	933.8M	
Unlisted options (@90c)	9.12M (expire 30 April 2025)	
Unlisted options (@90c)	3M (expire 31 Aug 2025)	
Market Cap	~\$807M	
Est Cash (08/11/2023)	~\$45M – No Debt	
Enterprise Value	\$762M	

SHARE PRICE PERFORMANCE – 3 YEARS



SHAREHOLDERS



Thank You

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