

# ASX ANNOUNCEMENT

ANDROMEDA METALS LTD (Andromeda, ASX: ADN)



14 July 2022

## Andromeda Metals Limited

ABN: 75 061 503 375

### Corporate details:

ASX Code: ADN

Cash (31 Mar 2022): \$35.5m

Issued Capital:

3,108,008,432 ordinary shares

69,480,000 unlisted options

24,333,325 performance rights

### Directors:

#### Mick Wilkes

Non-Executive Chair

#### James Marsh

Managing Director

#### Joe Ranford

Operations Director

#### Melissa Holzberger

Non-Executive Director

#### Andrew Shearer

Non-Executive Director

#### Austen Perrin

Non-Executive Director

### Company Secretary:

Andrea Betti

### Contact details:

Level 10

431 King William Street,  
Adelaide, South Australia  
5000

PO Box 1210

Unley BC SA 5061

Tel: +61 8 7089 9800

Fax: +61 8 8271 0033

admin@andromet.com.au

[www.andromet.com.au](http://www.andromet.com.au)

## Investor Webinar Presentation

Andromeda Metals Limited (ASX: ADN) (**Andromeda**, the **Company**) is pleased to announce its participation in the ShareCafe Small Cap "Hidden Gems" Webinar, to be held Friday 15th of July 2022 from 12:30pm AEST / 10:30am AWST.

Managing Director James Marsh will provide an overview of the Company which has a vision to be leading the world in the sustainable supply of superior quality industrial minerals and advancement of nanotechnologies.

This webinar is able to 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\\_iRhpRazQSTCBd7tkgMNgQ](https://us02web.zoom.us/webinar/register/WN_iRhpRazQSTCBd7tkgMNgQ)

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

A copy of the investor presentation to be delivered during the webinar is attached.

*This ASX announcement has been approved for release by the Disclosure Committee of Andromeda Metals Limited.*

**For more information about the Company and its projects, please visit our website [www.andromet.com.au](http://www.andromet.com.au) or contact:**

### Investor Relations

Peter Taylor

NWR Communications

T. 0412 036 231

E: [peter@nwrcommunications.com.au](mailto:peter@nwrcommunications.com.au)

### Media Enquiries

Sylvia Rapo

Managing Principal

Consentium

E: [sylvia.rapo@consentium.com.au](mailto:sylvia.rapo@consentium.com.au)



Our Vision: Leading the world in the sustainable supply of superior quality industrial minerals and advancement of nanotechnologies.

## Company Overview and Update Presentation

15 July 2022

ASX:ADN

[www.andromet.com.au](http://www.andromet.com.au)

## Disclaimer and compliance statement

This Presentation has been prepared by Andromeda Metals Limited (ACN 061 503 375) (**Andromeda or Company**). By accessing this Presentation, you acknowledge that you have read and understood the following statement.

The information contained in this Presentation is of a general nature and is for information purposes only. This Presentation has been prepared without taking into account any particular person's objectives, financial situation or needs; does not purport to identify the nature of specific market or other risks associated with any investments described within it and does not constitute any legal, taxation, investment or accounting advice. All information in this Presentation is indicative, is based on certain assumptions and current market conditions and is subject to change without notice. No information contained in this Presentation constitutes a prediction or forecast as to the performance of any investments. Assumptions upon which financial illustrations are based may differ from actual circumstances. No reliance should be placed on the information in this Presentation and any investment decision should be based only on the information in final offer documents and a person's own due diligence, inquiry, assessment and advice.

## Forward-looking statements

This Presentation contains or may contain certain "forward-looking statements" and comments about future events, that are based on Andromeda management's beliefs, assumptions and expectations and on information currently available to management as at the date of this Presentation. Often, but not always, forward-looking statements can generally be identified by the use of forward-looking words such as "may", "will", "expect", "plan", "believes", "estimate", "anticipate", "outlook", and "guidance", or similar expressions, and may include, without limitation, statements regarding plans, strategies and objectives of management, anticipated production and production potential, estimates of future Mineral Resources and Ore Reserves.

Where Andromeda expresses or implies an expectation or belief as to future events or results, such expectation or belief is expressed in good faith and on a reasonable basis. No representation or warranty, express or implied, is made by Andromeda that the matters stated in this presentation will in fact be achieved or prove to be correct.

Readers are cautioned against placing undue reliance on forward-looking statements. These forward-looking statements are not guarantees of future performance and involve known and unknown risks, uncertainties, assumptions and other important factors, many of which are beyond the control of Andromeda, the directors, and management of Andromeda. These factors include, but are not limited to difficulties in forecasting expected production quantities, the potential that any of Andromeda's projects may experience technical, geological, metallurgical and mechanical problems, changes in market prices and other risks not anticipated by Andromeda, changes in exchange rate assumptions, changes in product pricing assumptions, major changes in mine plans and/or resources, changes in equipment life or capability, emergence of previously underestimated technical challenges, increased costs, and demand for production inputs.

To the maximum extent permitted by law, neither Andromeda nor its related corporations, Directors, officers, employees or agents, nor any other person, accepts any liability, including, without limitation, any liability arising from fault or negligence, for any loss arising from the use of this presentation or its contents or otherwise arising in connection with it. Andromeda is under no obligation to release any updates or revisions to the information in this presentation to reflect any change in expectation or assumptions and disclaim all responsibility and liability for these forward-looking statements (including without limitation, liability for fault or negligence).

This announcement has been compiled by Andromeda from the information provided by the various contributors. All financial assumptions and estimates are quoted in Australian Dollars ('A\$' or 'AUD') only, unless indicated otherwise heading.

## No investment advice and investment risk

The information contained in this Presentation does not constitute investment or financial product advice (nor taxation or legal advice) and is not intended to be used as the basis for making an investment decision or as a recommendation to acquire shares and does not take into account the reader's personal circumstances.

An investment in Andromeda's securities is subject to investment and other known and unknown risks, some of which are beyond the control of Andromeda including loss of income and principal invested.

## No warranty

While care has been taken in preparing the information in this Presentation, no representation or warranty, express or implied, is made as to the currency, accuracy, reliability, completeness or fairness of the information, opinions and conclusions contained in this Presentation. The information in this Presentation has been obtained from or based on sources believed by Andromeda to be reliable. No member of Andromeda or any person with a direct or indirect interest in Andromeda or any of their respective directors, officers, employees, affiliates, partners, consultants, agents, representatives or advisers (including, without limitation, advisers and their related bodies corporate, shareholders or affiliates, and any of their respective officers, directors, employees, affiliates, partners, representatives, consultants, agents or advisers, together the Advisers) guarantees or makes any representations or warranties, express or implied, as to or takes responsibility for, the currency, accuracy, reliability, completeness or fairness of this Presentation nor the information, opinions and conclusions contained in this Presentation.

## Mineral Resources and Ore Reserves Estimates

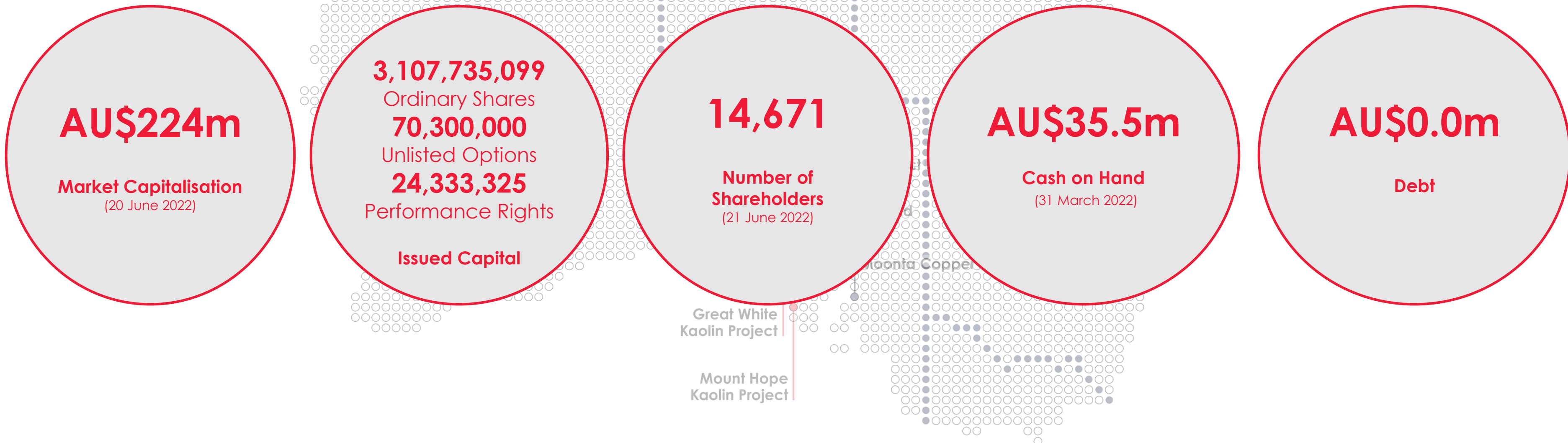
As an Australian company with securities listed on the Australian Securities Exchange (ASX), Andromeda is subject to Australian disclosure requirements and standards, including the requirements of the Corporations Act and the ASX. Investors should note that it is a requirement of the ASX listing rules that the reporting of ore reserves and mineral resources in Australia comply with the 2012 edition of the Australasian Code for Reporting of Exploration Results, Mineral Resources and Ore Reserves (the **JORC Code**) and that the Ore Reserve and Mineral Resource estimates underpinning the production targets in this presentation have been prepared by a Competent Person in accordance with the JORC Code.

Information that relates to Mineral Resources estimates has been previously announced to ASX on 23 December 2019, "Significant increase in Mineral Resource for the Poochera Kaolin Project", 29 September 2020, "New mineral resource estimate for Hammerhead Halloysite-Kaolin Deposit" and 11 August 2020, "New Mineral Resource for the Mount Hope Kaolin project", all available at <https://www2.asx.com.au/markets/company/adn>. Andromeda confirms that it is not aware of any new information or data that materially affects the information included in the original market announcement and that all material assumptions and technical parameters underpinning the estimates continue to apply and have not materially changed. Andromeda confirms that the form and context in which the Competent Person's findings are presented have not been materially modified from the original market announcements.

## Competent Person's Statements

Information in this announcement has been compiled by Mr. James Marsh a member of The Australasian Institute of Mining and Metallurgy (AusIMM). Mr. Marsh is an employee of Andromeda Metals Limited who holds shares and options in the company and has sufficient experience, which is relevant to the style of mineralisation, type of deposits and their ore recovery under consideration and to the activity being undertaking to qualify as Competent Persons under the 2012 Edition of the 'Australasian Code for reporting of Exploration Results, Mineral Resources and Ore Reserves' (JORC Code). This includes Mr. Marsh attaining over 30 years of experience in kaolin processing and applications. Mr. Marsh consents to the inclusion in the report of the matters based on the information in the form and context in which it appears.

# Corporate Snapshot – ASX Code: ADN

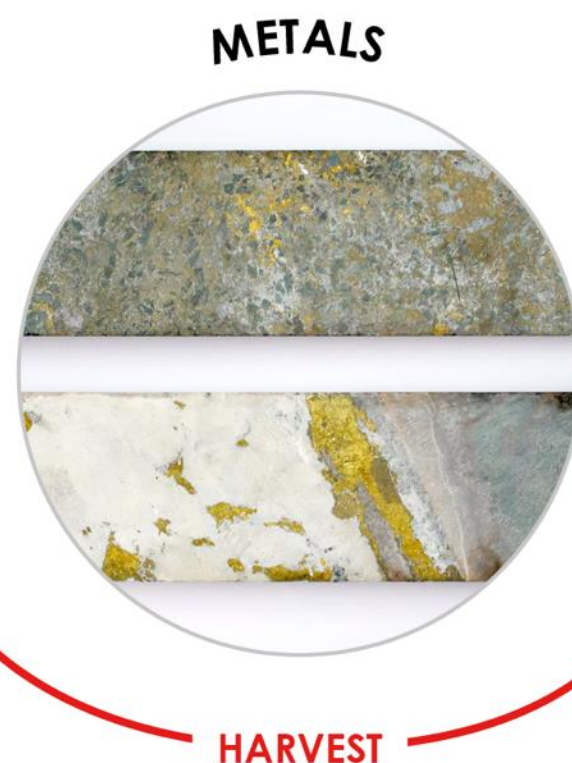


### Our purpose

Through the use of our industrial minerals and nanotechnologies we strive to enrich the lives of people by improving the environment, creating prosperity for our shareholders and delivering value for our stakeholders.

### Our vision

Lead the world in the sustainable supply of superior quality industrial minerals and advancement of nanotechnologies.



### Our mission

To mine and process industrial minerals for supply, together with advancing nanotechnologies, to our global customer base by leveraging our unique natural resources and intellectual capital.

### Our values



Innovation



Teamwork



Integrity



Quality

The safety and wellbeing of our employees and our communities is our first priority.

# Why Andromeda?



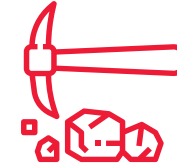
## Tier 1 Mining Jurisdiction

South Australia



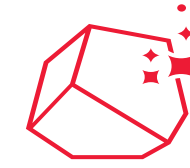
## Exploration Endowment

Large portfolio of exploration tenements, totalling 8,313.7km<sup>2</sup> including earn-ins



## Mineral Resources

Kaolin Mineral Resource: >110Mt of JORC Resources<sup>1,2,3,4,5</sup>



## Ore Reserves

Kaolin Ore Reserve (GWKP): 15.1Mt of JORC Reserves<sup>6</sup>



## Experienced Team

Experienced and industry focused Board and Executive team



## Mining Lease

Great White Kaolin Project Mining Lease granted



## DFS Completed

Great White completion of DFS, de-risked project, progressing to production



## Binding Offtakes

Binding off-takes under negotiation



## New High Value Products

Developing new high value products including High Purity Alumina (HPA) for existing markets



## Nanotechnologies

Strategic research relationship with University of Newcastle

1. ASX 23 December 2019, "Significant increase in Mineral Resource for the Poochera Kaolin Project".  
 2. ASX 29 September 2020, "New mineral resource estimate for Hammerhead Halloysite-Kaolin Deposit".  
 3. ASX 11 August 2020, "New Mineral Resource for the Mount Hope Kaolin project"  
 4. "The Company is not aware of any new information or data that materially affects the information in the relevant market announcements. All material assumptions and technical parameters underpinning the estimates in the relevant market announcements continue to apply and have not materially changed."  
 5. ASX 23 March 2022, Maiden Tiger Kaolin Resource and Regional Rare Earth Element Potential. Halloysite reported with kaolinite.  
 6. ASX 6 April 2022 Great White Kaolin Project - Definitive Feasibility Study

# Kaolin Resources & Exploration

Exploration efforts by our experienced Geological Team to grow the market base for value products

## Great White Kaolin Project

- Great White
- Hammerhead
- Tiger
- Bronze Whaler

## Eyre Kaolin Joint Venture<sup>6</sup>

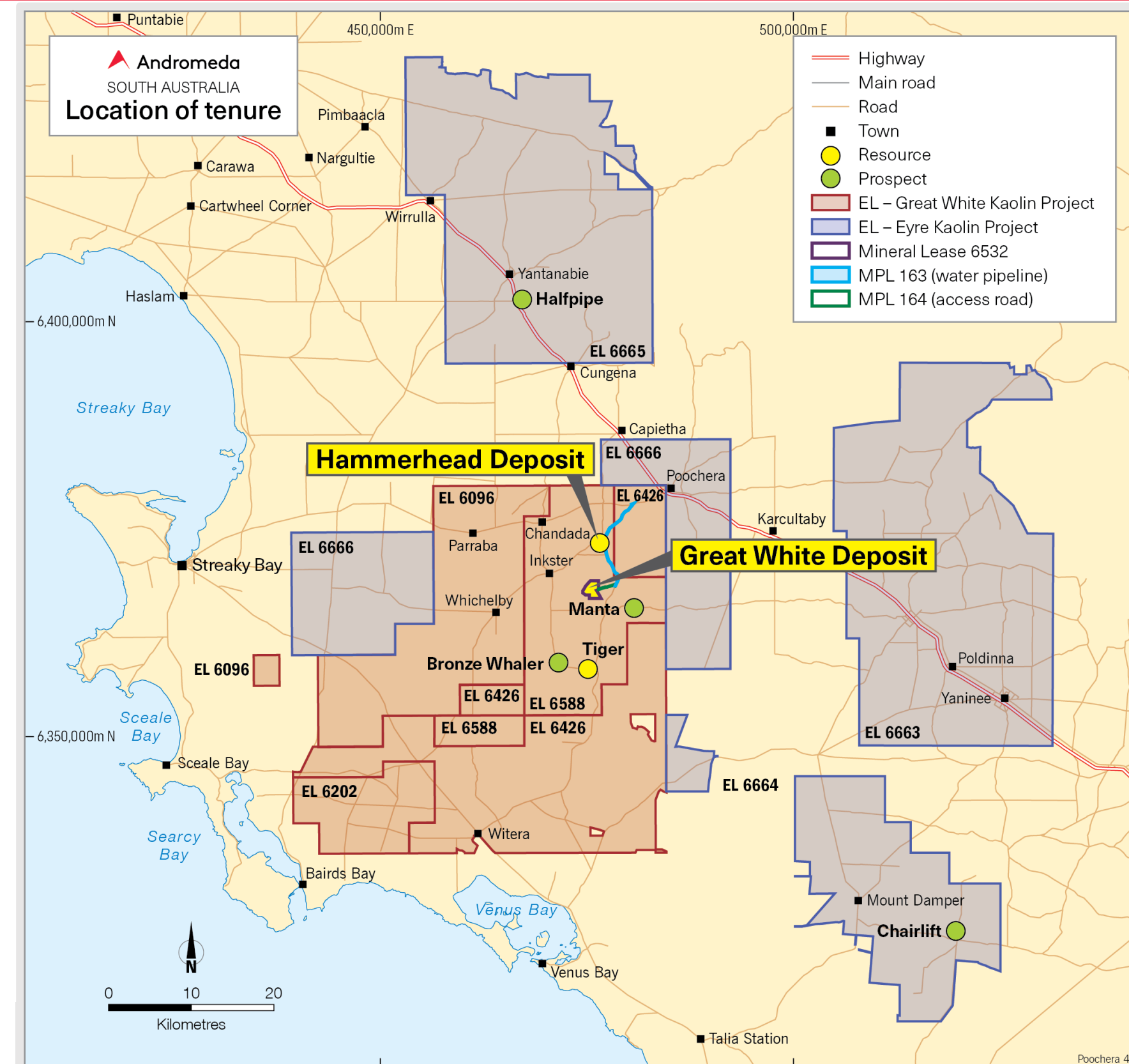
- Halfpipe - 24 holes/1174m
- Chairlift - 28 holes/895.5m
- 199 composite samples submitted for analysis

## JORC Resources

- >110Mt<sup>1,2,3,4,5</sup>

## Land Access

- 29 years of successful regional exploration activities



**4,896.8km<sup>2</sup>**

Regional potential kaolin of exploration tenements, including earn-ins

1. ASX 23 December 2019, "Significant increase in Mineral Resource for the Poochera Kaolin Project".  
 2. ASX 29 September 2020, "New mineral resource estimate for Hammerhead Halloysite-Kaolin Deposit".  
 3. ASX 11 August 2020, "New Mineral Resource for the Mount Hope Kaolin project".  
 4. "The Company is not aware of any new information or data that materially affects the information in the relevant market announcements. All material assumptions and technical parameters underpinning the estimates in the relevant market announcements continue to apply and have not materially changed."  
 5. ASX 23 March 2022, Maiden Tiger Kaolin Resource and Regional Rare Earth Element Potential, Halloysite reported with kaolinite.  
 6. ASX 12 August 2021, "Andromeda enters new kaolin Joint Venture on the Eyre Peninsula, SA".

# Great White Kaolin Products & Marketing

## Concentrate Product Great White KCM™90

*A semi-refined high-quality kaolin for direct use, further refinement or upgrade of resources*

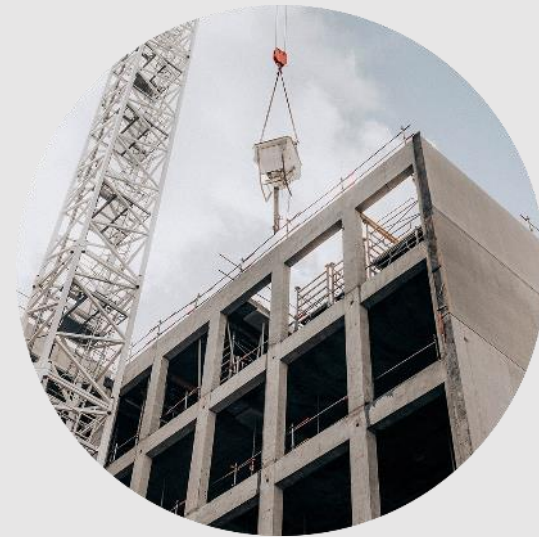


## Great White KCM™90

*Binding Offtakes being negotiated in several countries*

## Concrete Product Great White HRM™

*A refined kaolin for sale for use as a concrete and building product additive*



## Great White HRM™

*LOI Signed with IMCD the World's largest additives distributor and conversion to a Binding Offtake in progress*

## Ceramic product Great White CRM™

*A fully refined product for the high-end ceramics market*



## Great White CRM™

*Binding Offtake for 5,000t/pa*

## Coatings product Great White PRM™

*A fully refined product for the coatings and polymers markets*



## Great White PRM™

*Binding Offtake for 70,000t/pa*



# Great White Kaolin Project – Technical, Environmental & Community

## Stakeholder Engagement

- Continuing in community
- Landholders
- Jobs/opportunities

## Environmental Impact Studies

- No impact issues
- Minimal groundwater (no regional impact)
- Modelling completed

## PEPR<sup>1</sup> Approval

- Focussed DFS stages 1 & 2
- Mine closure landforms designed
- Finalisation of submission for August 2022
- Approval ~ end of 2022

## Land Access Agreement

- For exploration activities over last 5 years
- Building on established relationships



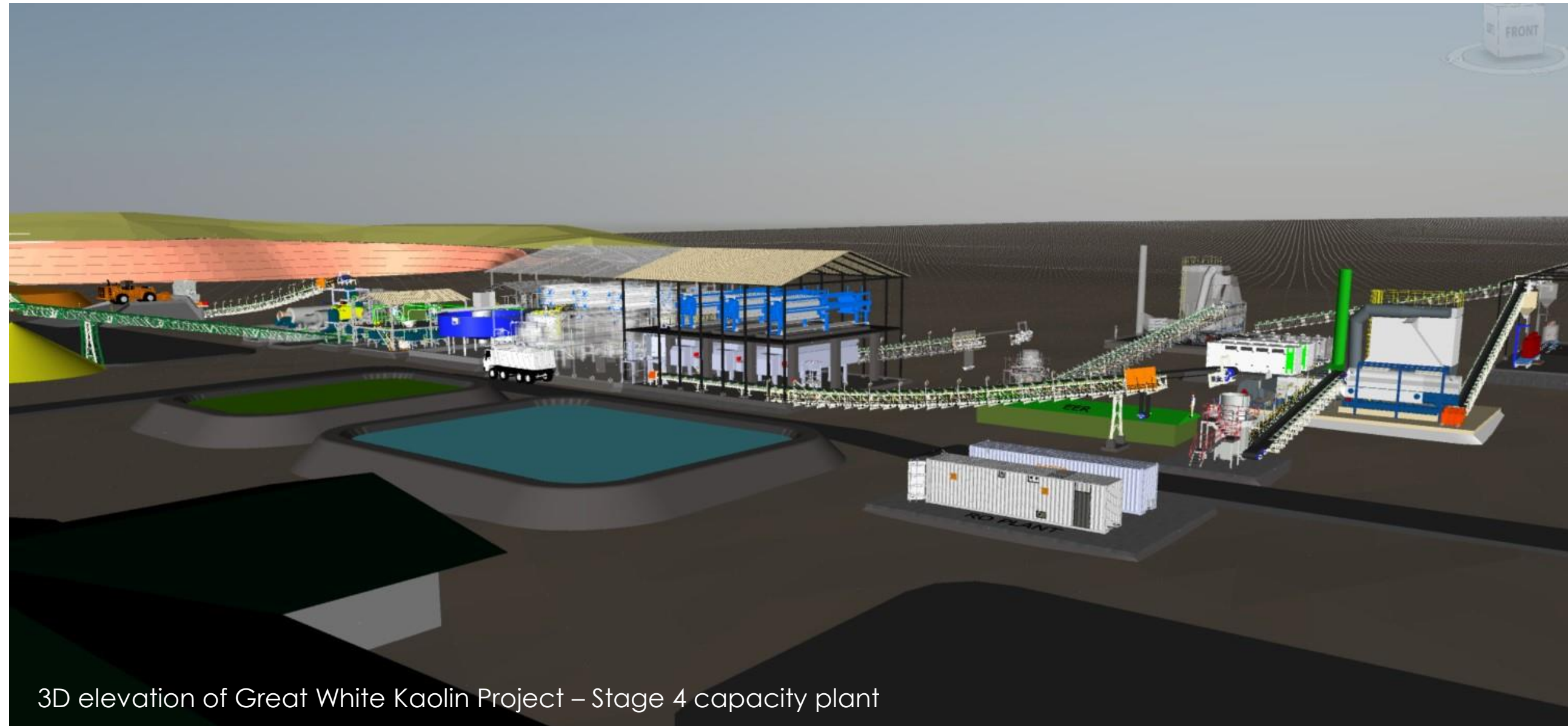
<sup>1</sup> The Program for Environment Protection and Rehabilitation (PEPR) is the operational approval in South Australia.

# Great White Kaolin Project– Post DFS Works

- DFS design advanced – continuing to optimise design post-DFS
- Operational readiness - establishment, construction and starter pit detailed planning
- Scale-up sample products to support marketing for Ceramics, Paints and Coatings, Natural Nanotech and HPA

## Great White Stage 4 Processing Plant Design:

DFS design concept minimises capital with a staged approach to production capacity and product quality to self fund capital upgrades.



3D elevation of Great White Kaolin Project – Stage 4 capacity plant

## DFS Highlights<sup>1</sup>

**NPV<sub>8</sub>  
A\$613M**

- IRR = 36%
- Upfront capital A\$93.8M

**LOM  
28yrs**

- Pay back 5.9 yrs with self-funded upgrades from profit starting in year 2

**15.1Mt  
Total Ore  
Reserves**

- GWKP Reserve
- Open to the South East

# Great White Kaolin Project – Operational Readiness



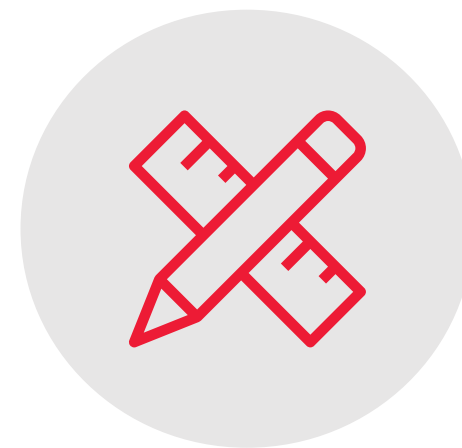
## Land Access

In principle agreement reached



## Suppliers

Continuing to build relationships with local contractors and suppliers



## Site Establishment

Works scoped and designed



## Agreements

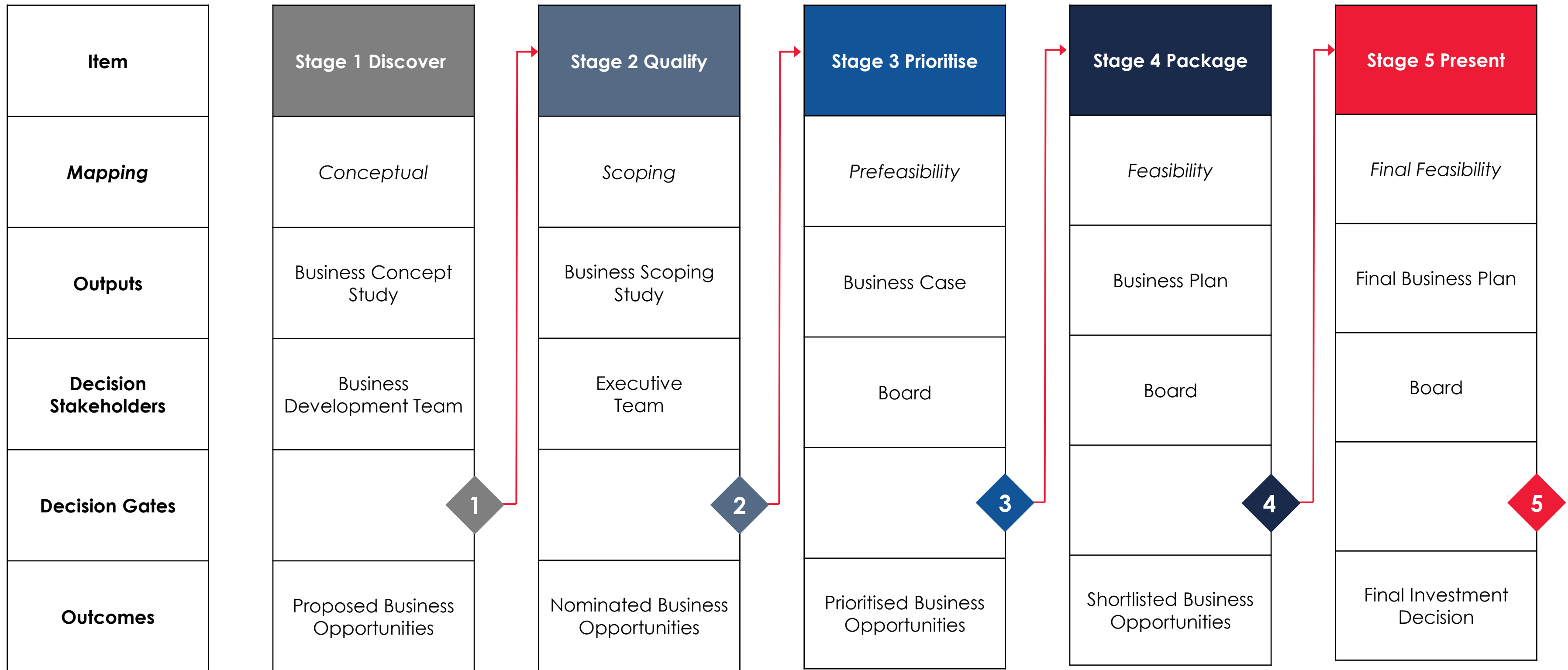
Preparation of agreements to establish site infrastructure and operations



## Logistics

Multiple port facility options with individual attributes remain open

# Business Development Framework



# High Purity Alumina (HPA) - Adding value to the GWKP

## Estimated size & growth of global synthetic sapphire market

**US\$6.0B<sup>1</sup>** In 2020      **7.0% p/a<sup>1</sup>** 2020-2027 CAGR

## Estimated size & growth of global lithium-ion battery market

**US\$41.1B<sup>2</sup>** In 2021      **12.3% p/a<sup>2</sup>** 2021-2030 CAGR

## Subject Matter Experts Directly Engaged

- Research and Development
- Market Analysis
- Scaling
- Commercialisation

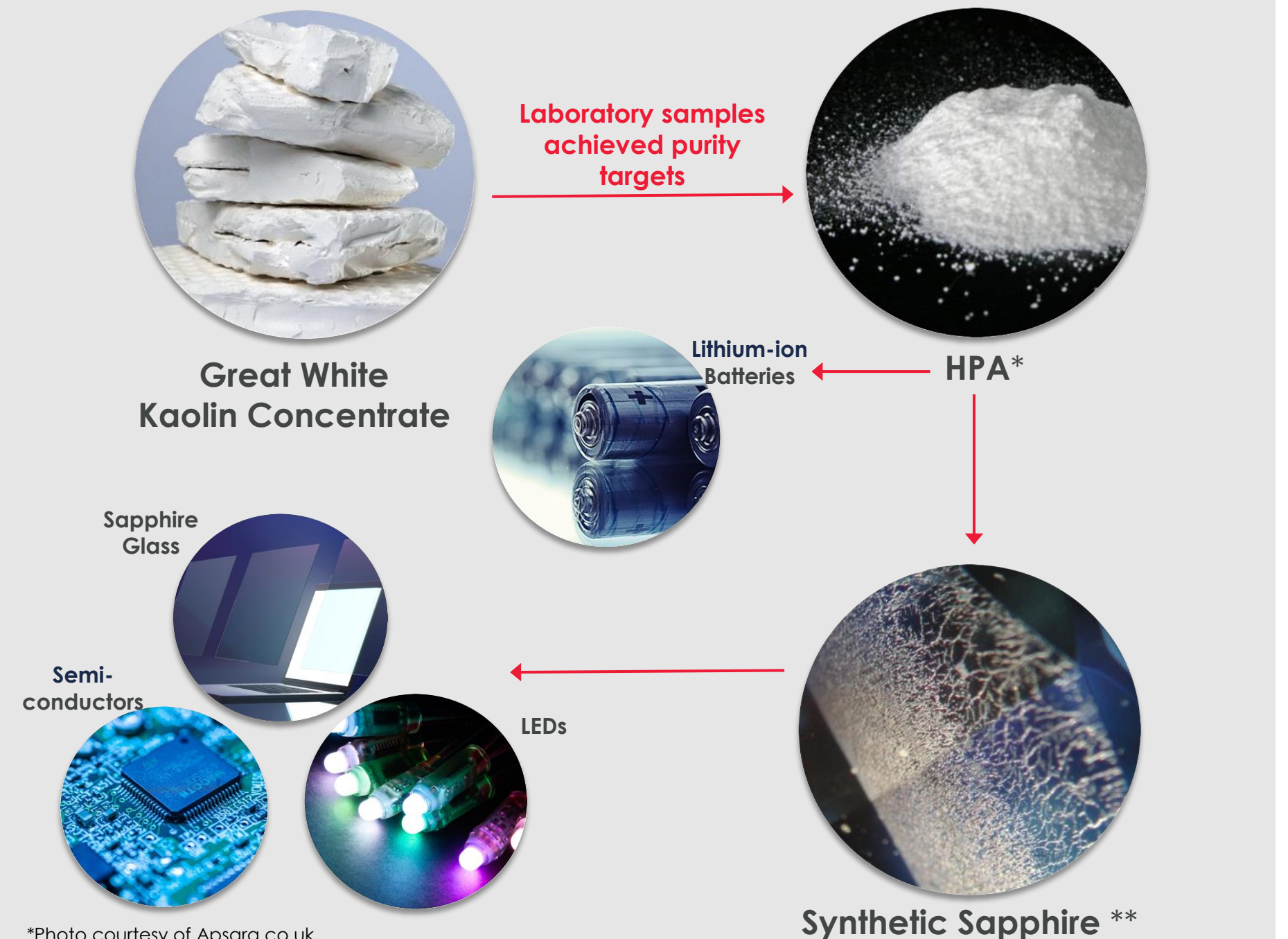
## Intellectual Property

Provisional Patent Application filed

<sup>1</sup>Research and Markets: Synthetic Sapphire – Global Market Trajectory & Analytics, April 2021  
<sup>2</sup>Markets and Markets: Lithium-ion Battery Market, June 2021  
<sup>3</sup>Australian Federal Government "2022 Critical Minerals Strategy", March 2022

### STAGE 1 DISCOVER

Andromeda has funded research into the recovery of the Critical Mineral<sup>3</sup>, HPA, from Great White Kaolin Concentrate feedstock



\*Photo courtesy of Apsara.co.uk

\*\*Photo courtesy of Emerging Markets Research Trends

# Nanotechnologies - Adding value to the GWKP

## STAGE 1 DISCOVER

### Estimated size of global nanomaterials market

**US\$8.0B<sup>1</sup>**  
In 2020

### Estimated growth of global nanomaterials market

**14.1% p/a<sup>1</sup>**  
2020-2027 CAGR

### Research & Development

- Strategic partnership with Global Innovative Centre for Advanced Nanomaterials (GICAN)

### Intellectual Property

- Provisional Patent Application filed (Priority Date 2 July 2021)



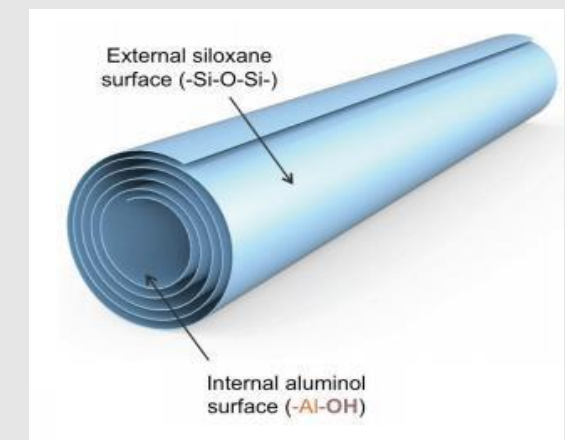
**Carbon Capture Pilot Plant designed, manufactured (Height 5.0m) and in Australia**

Andromeda has funded research into the production of nanomaterials from Great White Halloysite Kaolin feedstock



**Great White Halloysite Kaolin**

**Nanomaterials produced at laboratory scale**



**Halloysite Nanomaterials**



**Energy**



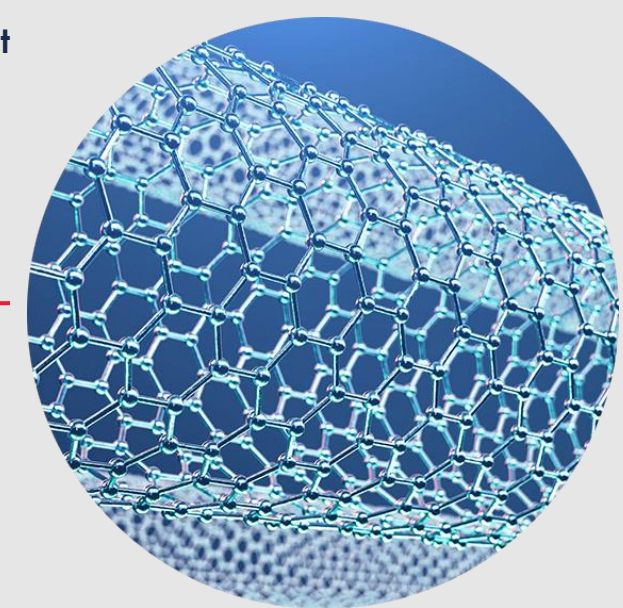
**Environment**



**Health**



**Agriculture**



**Nanotechnologies**

**Industry Applications**

<sup>1</sup>Grand View Research: Nanomaterials Market Size, Share & Trends Analysis Report By Product (Gold, Silver, Iron, Copper), By Application (Aerospace, Automotive, Medical), By Region, And Segment Forecasts, 2021 - 2028

# Corporate Readiness

Aligning the company, people, processes and systems for the next phase



## Organisational Structure

Review of organisational structures to be ready for construction and operations



## Enterprise Resource Planning

New system operational ready for construction and operations



## Risk Registers

Updated Group Strategy and strategic risk registers to move into construction and operations



## Logistics

Multiple port facility options with individual attributes remain open



## Sustainability Committee

Preparing our ESG systems for the move into construction and operations



## Policies & Procedures

Reviewing and changing ready for construction and operations



## Management Operating Systems

Consolidating in preparation for construction and operations



## Carried Forward Tax Losses



Reviewing the availability and useability of our carried forward tax losses



## Group Legal Structures

Reviewing and implementing to create flexibility in funding

# Achievements Past 12 Months & Moving Forward

 <b>Completed</b>		 <b>In Progress</b>	
<b>Mining Approval</b>	Granted	<b>Agreements</b>	Drafting to establish site infrastructure and operations
<b>Minotaur Acquisition</b>	Completed	<b>Pilot Plant</b>	Upgrade in progress
<b>Natural Nanotech</b>	100% Owned	<b>Binding Offtakes</b>	Partly secured and remainder of planned production under negotiation
<b>Funding</b>	\$45 Million Raised	<b>PEPR</b>	Application in progress
<b>DFS</b>	Released	<b>Logistics</b>	Multiple port facility options with individual attributes remain open
<b>Site Establishment</b>	Works scoped and designed	<b>Suppliers</b>	Continuing to build relationships with local contractors and suppliers
<b>Team</b>	Expert and dedicated team built		
<b>Land Access</b>	In principle agreement reached		





ASX:ADN

[andromet.com.au](http://andromet.com.au)

Level 10, 431 King William Street, Adelaide, South Australia 5000 +61 8 7089 9800  
Authorised for release by the Board of Andromeda Metals Ltd