



Andromeda

Great White Kaolin Project
Eyre Peninsula, South Australia

Sep 28, 2021

ASX:ADN
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Andromeda

An emerging industrial minerals producer
with numerous value chains

Corporate overview



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\$360M
MARKET
CAPITALISATION

\$46M
CASH

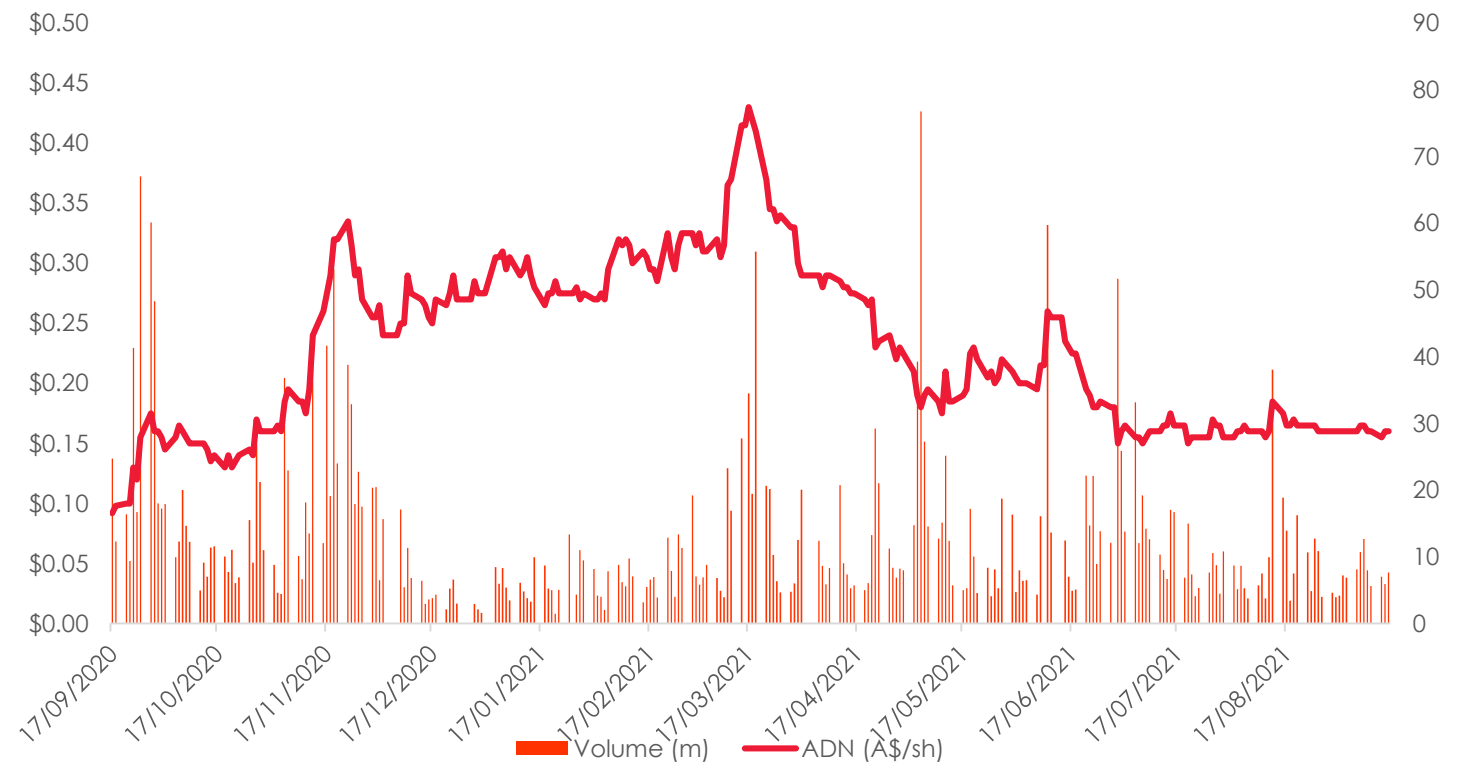
\$0M
DEBT

2,361M
FULLY PAID
ORDINARY SHARES

\$0.145
CURRENT SHARE
PRICE

Board members

- Rhod Grivas
Non-Executive Chairman
- James Marsh
Managing Director
- Joe Ranford
Operations Director
- Andrew Shearer
Non-Executive Director
- Melissa Holzberger
Non-Executive Director



Mining project

Pre-operational phase



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Andromeda Metals Ltd

0.15 AUD

+0.14 (1,400.00%) ↑ past 5 years

20 Sept, 4:10 pm AEST · Disclaimer

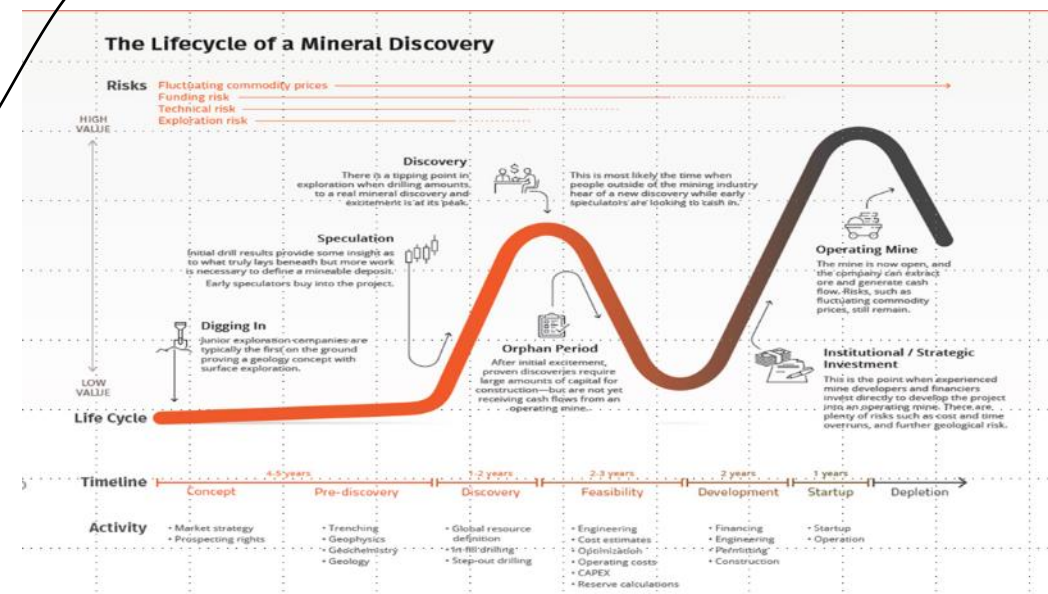
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+ Follow

1D 5D 1M 6M YTD 1Y 5Y Max



Open	0.16	Mkt cap	357.69M	52-wk high	0.45
High	0.16	P/E ratio	-	52-wk low	0.092
Low	0.14	Div yield	-		



Andromeda's core assets



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KAOLIN and HALLOYSITE-KAOLIN



Great White JV (75% ADN:25% MEP)

Mount Hope 100%

Eyre Kaolin 100%

**All in South
Australia**

>100Mt of JORC Resources

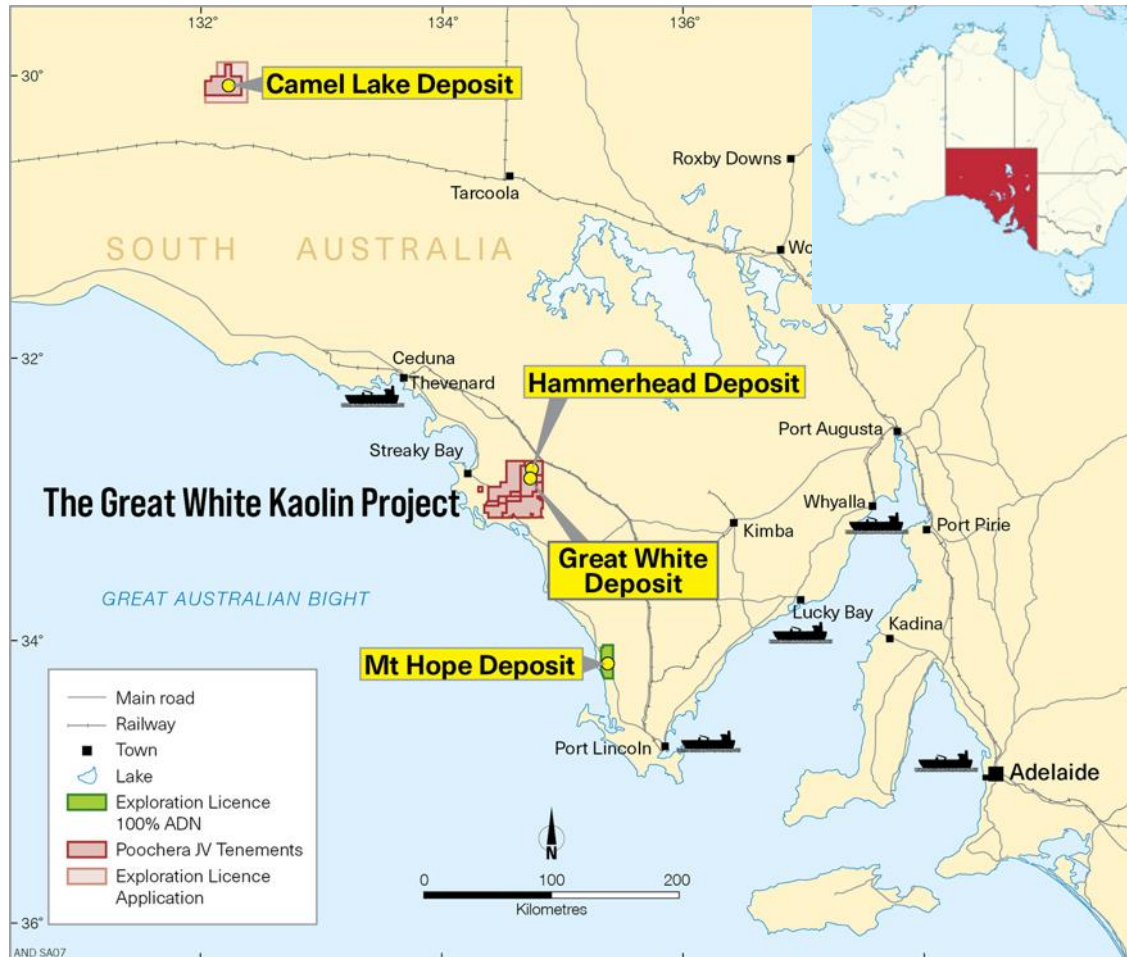
Natural Nanotech (50:50 JV)

Great White Kaolin Project

Primary project focus – Halloysite-Kaolin



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Primary Project Focus – Halloysite-Kaolin

- Operations scheduled to start in 2022 for the first project
- Legally Binding Offtakes underpinning the business
- Current demand exceeding initial planned production
- Located close to essential infrastructure
- New high-value concrete industry opportunity
- De-risked High Purity Alumina (HPA) project
- Multiple Nanotechnology opportunities

Binding off-takes in place

Initial business already underwritten



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Ceramic Product - Fired Brightness Off The Scale

- Binding Offtake signed for 5,000t/pa with Japanese customer @ A\$700/t
- Total Japanese market estimated at 45,000t/pa
- Total Chinese market estimated at ~ 600kt/pa - Offtake discussions ongoing
- Approval testing in progress throughout Europe, Middle East & Asia
- Global supply shortage is growing

Paint Product - Out Performs The World's Best Kaolin Products

- Binding Offtake signed for 70,000t/pa of premium paint grade into China
- Price fixed for three years and higher than A\$700/t
- Significant global opportunities for this product



New concrete application

Halloysite rheology modifier (HRM™) in construction products



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Potential Benefits

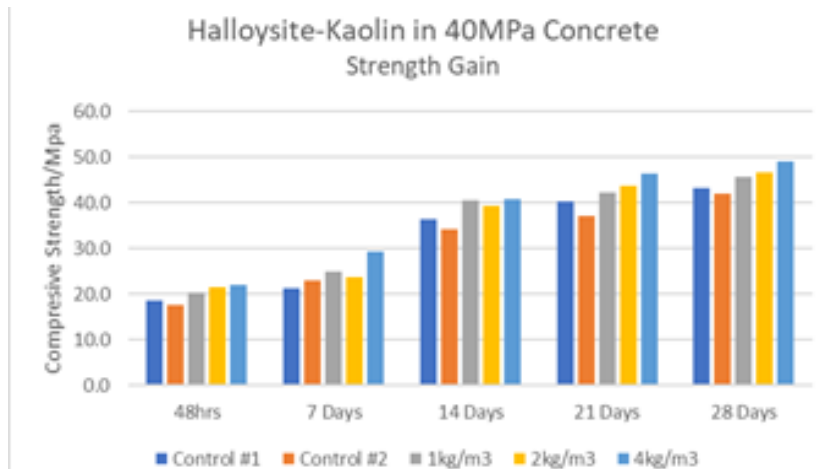
- Carbon footprint reductions
- Cost reductions
- Performance improvements
- Handling improvements
- Safety improvements



Commercial testing and bulk sampling in progress



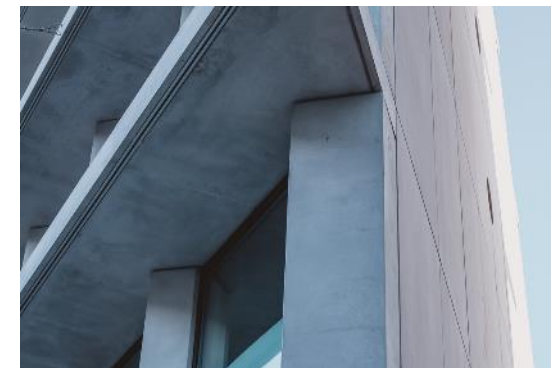
Only **1kg** in **3 tonnes** of concrete required



PATENT FILED



Australian Concrete Industry Standard Passed



Huge potential high-value market with true global reach

Halloysite & nanotechnology

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- **Most researched clay mineral in the world**
- **Use only constrained by supply shortage**
- **The Natural Nanotech JV is spending >\$1M/pa on R&D leading to commercialisation**

- Great White Kaolin Project halloysite-kaolin is already working at 40% purity
- This is only going to get better as purity increases
- Bulk sample exercise in progress targeting high-purity halloysite
- Also collecting a large amount for cosmetic product approval testing



Carbon Dioxide
Capture/Storage &
Conversion to Fuels



Batteries & Super-
Capacitors



Water Purification



Patent Filed & Pilot
Plant under



Patent Filed



Patent Filed

Natural Nanotech (NNT) R&D in Progress



Agriculture \$2.4M
Gov Funding



Medical Delivery of
Drugs



Hydrogen Storage
and Transport

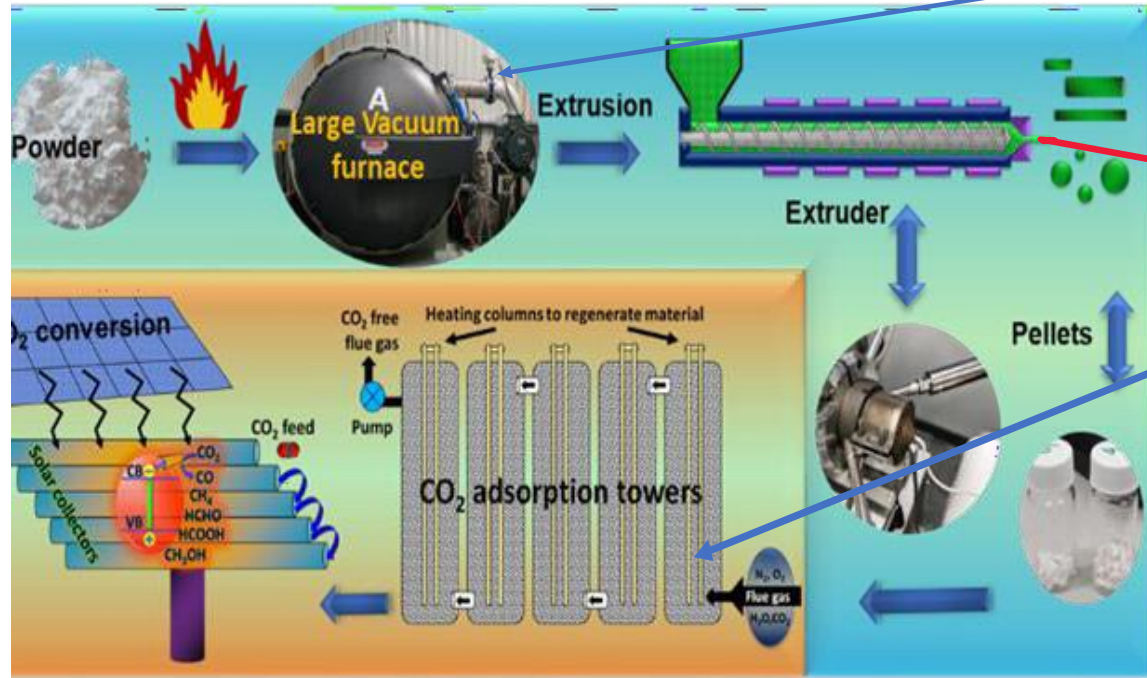


Remediation of
Contaminated Soils

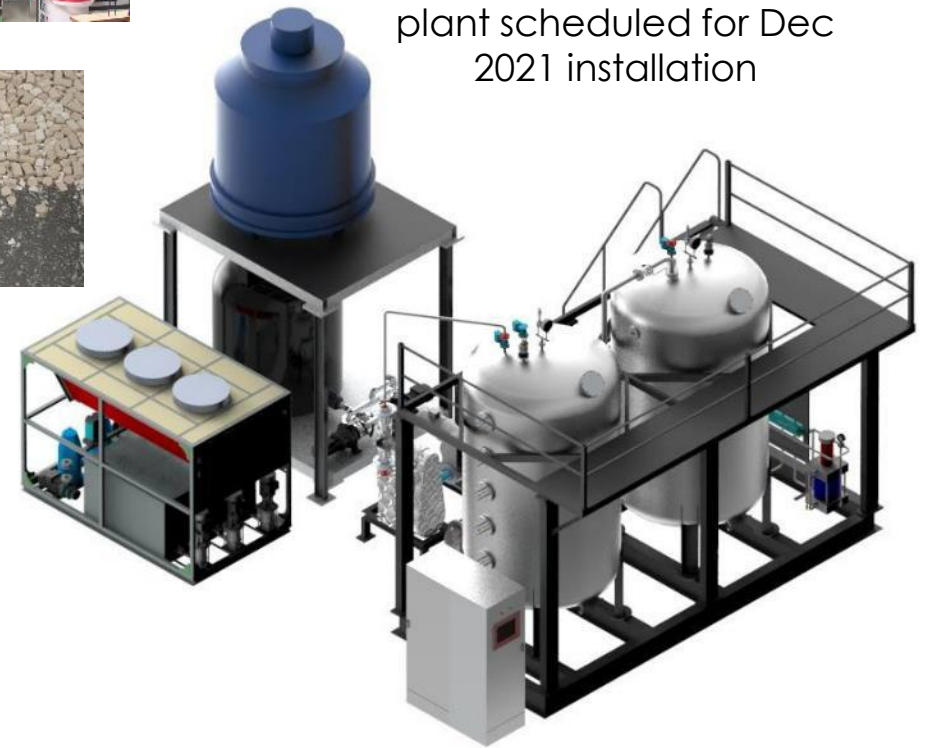
Pilot Plant to Demonstrate Carbon Capture & Conversion Commerciality



The bulk production facility for the fabrication of these nanostructures in tonnes of quantity has been established at the Newcastle Institute for Energy and Resources



Large-scale CO₂ capture plant scheduled for Dec 2021 installation



The demonstration plant will prove the scalable capture of CO₂ and conversion into clean fuel, effectively closing the circle of emissions

Our Aim: Demonstrate Direct Air Capture or Flue Gas Capture achievable at or below A\$20/t CO₂

High purity alumina project



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- High Purity Alumina (HPA) is recognised as a key component in the Lithium-Ion Battery supply Chain
- Annual demand is set up to quadruple between 2020 and 2028 causing a significant shortfall in supply
- Current 4N (99.99%) HPA pricing is approx. US\$24,000/t and 5N (99.999%) up to US\$50,000/t
- HPA is also used extensively in LED lights and Smartphone Glass



- Andromeda has proven premium quality kaolin feed for HPA production
- Very High end 4N purity was repeatedly achieved with only one stage of purification
- MoU signed with Advanced Energy Minerals for exclusivity to their technology in Australia and New Zealand
- AEM has the only globally operating commercial facility capable of producing HPA from kaolin
- AEM is currently designing a UK plant with support from the UK government
- This improved modular design planned to be duplicated in Australia by Andromeda
- Andromeda has engaged a world class international team of metallurgists to develop process optimisations

What's next?

What's on the horizon for Andromeda



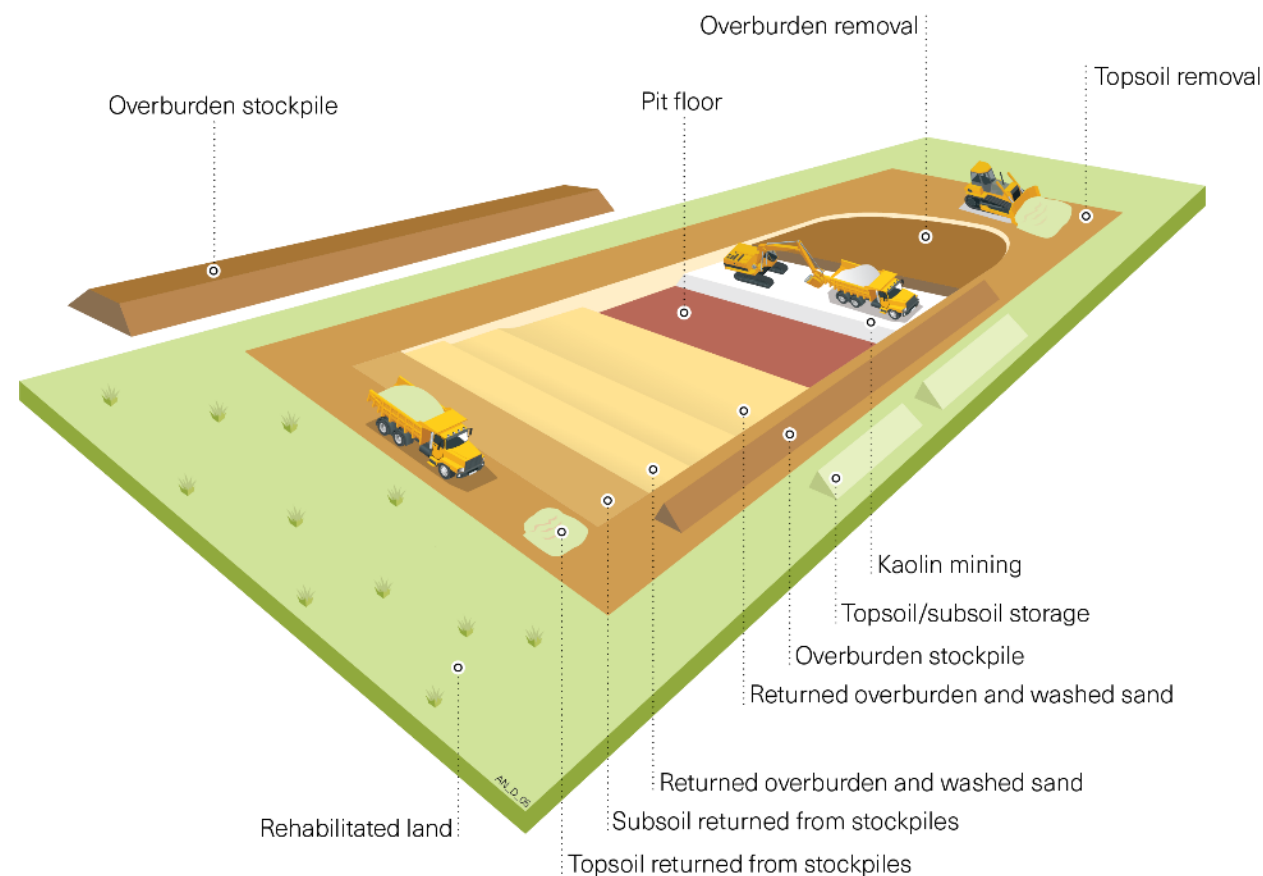
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2022

First Commercial Products to Market by late 2022

- Sell the Phase 1 plant 100% out
- Release Definitive/Bankable Feasibility Studies
- Secure debt funding
- Mining Approval
- High Purity Halloysite – resource and/or purification
- Concrete product commercial agreement
- Additional Resources
- Nanotechnology Commercialisation
- High Purity Alumina – feasibility studies
- DSO opportunity
- Sand sales opportunity



Key takeaways

1



Andromeda has one of the world's largest resources of type

2



A high value industrial mineral selling into a low volatility market

3



Global demand is increasing, and supply is decreasing

4



Simple business model with low impact mining

5



Huge potential in new applications

6



Low Capex project and short timeline to operation

Thank you



Andromeda

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STATEMENTS

Cautionary Statements

The preliminary feasibility study (Pre-Feasibility Study, PFS) referred to in this announcement has been undertaken to study a range of options to produce high-quality halloysite-kaolin product from the Kaolin Resource at Poochera in South Australia in order to provide Andromeda Metals with a basis for more detailed Definitive Feasibilities Studies for the Project. It is a technical and economic study to identify preferred mining, processing and infrastructure requirements but it has not finalised these. The PFS work has advanced assessments of environmental and socio-economic impacts and requirements, but these are also not finalised. The estimation of ore reserves is yet to be done.

The Production Target referred to in this announcement is based on this PFS and supported mainly by Measured and Indicated Resources and only minor Inferred Resources. Andromeda Metals has concluded that it has reasonable grounds for disclosing a Production Target, however there is no certainty that the Production Target or the economic assessment will be realised.

The PFS is based on the material assumptions outlined elsewhere in this announcement. These include assumptions about the availability of funding. While Andromeda Metals 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 range of outcomes indicated by the PFS will be achieved.

To achieve the range of outcomes indicated in the PFS, funding in the order of A\$28M, inclusive of working capital, is likely to be required. Investors should note that there is no certainty that Andromeda Metals will be able to raise that 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 Andromeda Metals' existing shares. It is also possible that Andromeda Metals could pursue other 'value realisation' strategies to provide alternative funding options.

Given the uncertainties involved, investors should not make any investment decisions based solely on the results of the PFS. This announcement includes forward looking statements. For further information on forward looking statements please refer to the end of this release.

Forward Looking Statements

Some of the statements contained in this report are forward looking statements. Forward looking statements, include, but are not limited to, statements concerning estimates of tonnages, expected costs, statements relating to the continued advancement of Andromeda's projects and other statements that are not historical facts. When used in this report, and on other published information of Andromeda, the words such as 'aim', 'could', 'estimate', 'expect', 'intend', 'may', 'potential', 'should' and similar expressions are forward looking statements. Although Andromeda believes that its expectations reflected in the forward-looking statements are reasonable, such statements involve risks and uncertainties and no assurance can be given that actual results will be consistent with these forward-looking statements.

Various factors could cause actual results to differ from these forward-looking statements include the potential that Andromeda's project may experience technical, geological, metallurgical and mechanical problems, changes in market prices and other risks not anticipated by Andromeda. Andromeda is pleased to report this summary of the Study in a fair and balanced way and believes that it has a reasonable basis for making the forward-looking statements in this announcement, including with respect to any mining of mineralised material, modifying factors, production targets and operating cost estimates.

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.

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 undertaken 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.