



Andromeda

Investor Update

Melbourne

22-23 June 2023

ASX:ADN

www.andromet.com.au

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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.



Acknowledgement of Country

On behalf of Andromeda, I respectfully acknowledge that we are meeting on the traditional lands of the Kulin Nation, and that Andromeda operates on the lands of the Kaurna people of the Adelaide Plains and the Wirangu people of South Australia's Eyre Peninsula.

We pay our respects to their Elders both past and present, and extend that respect to Elders from other communities who may be present today.



Our Board and Executive Team

New Board with exceptional industry expertise



Mick Wilkes
*Independent Non-Executive Chair
Chair of Remuneration and
Nomination Committee*



Melissa Holzberger
*Non-Executive Director
Chair, Sustainability & Governance
Committee*



Austen Perrin
*Non-Executive Director
Chair, Audit & Risk Committee*

Expanded executive team with strong operational capabilities



Bob Katsioularis
*Chief Executive Officer &
Managing Director*



James Marsh
*Executive Director,
Sales & Marketing*



Joe Ranford
Chief Operating Officer



Tim Anderson
Chief Commercial Officer



Sarah Clarke
*General Counsel and
Company Secretary*



Our Vision

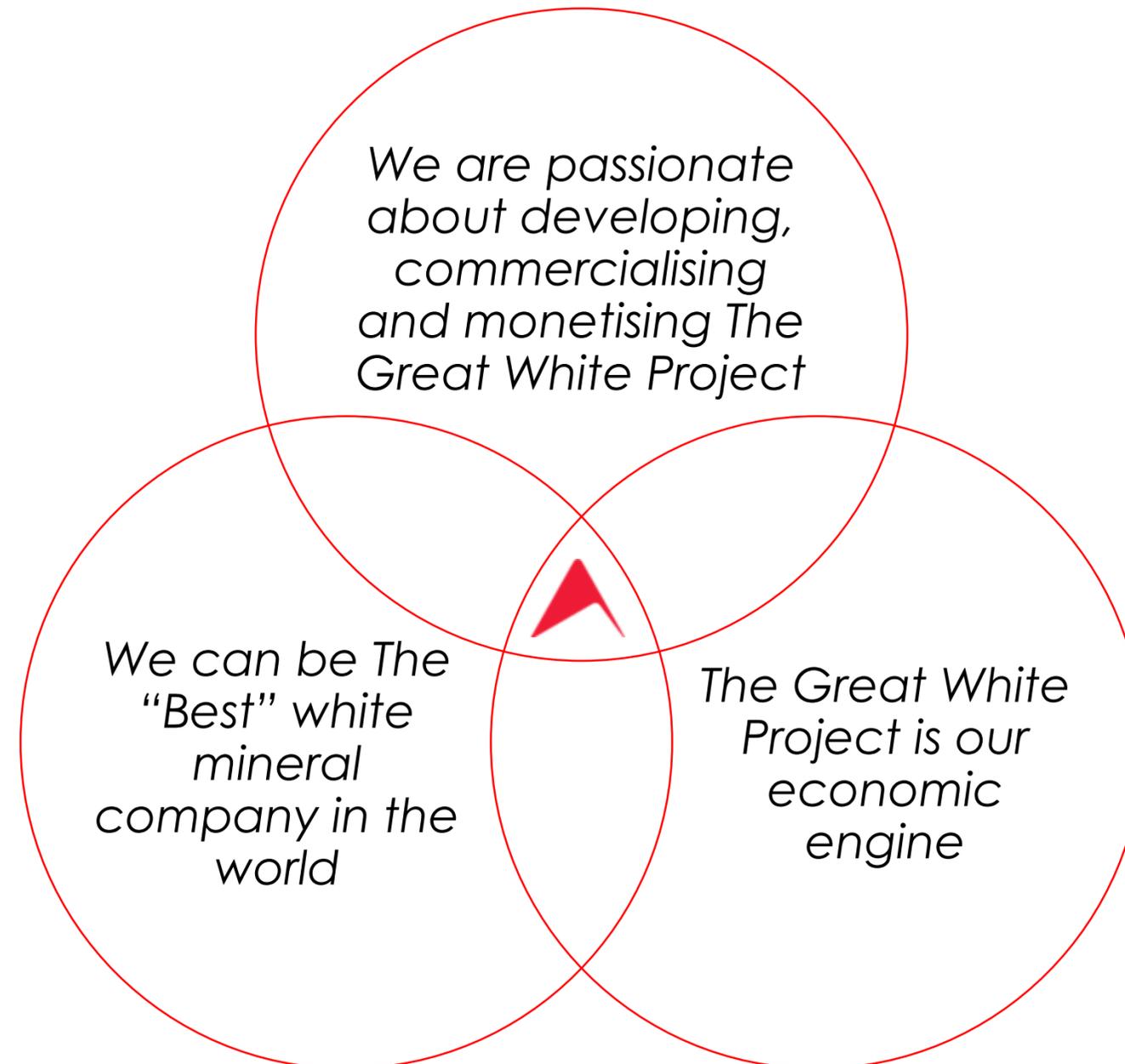


The Great White Mineral Company



Strategic Intent

To be The Great White Mineral Company





Our Business Approach

Current State (Today)

- Commodity mindset
- Price sensitive
- Defining product and market portfolio

Our Positioning (To be)

- De-commoditising
- Shared view of value-in-use across product portfolio
- Supplier, partner and employer of choice
- Defining contestable market share

Our Approach

- Optimum value identified by balancing Mine-to-Market vs Market-to-Mine
- Operational and commercial excellence to accretively release the latent life-of-mine option value of The Great White Project



Our Products

Positioned to respond to megatrends

Core
Great White CRM™
Ceramic tile bodies
Ceramic glazes and engobes
High end porcelain and tableware

Urbanisation

Technology

Decarbonisation

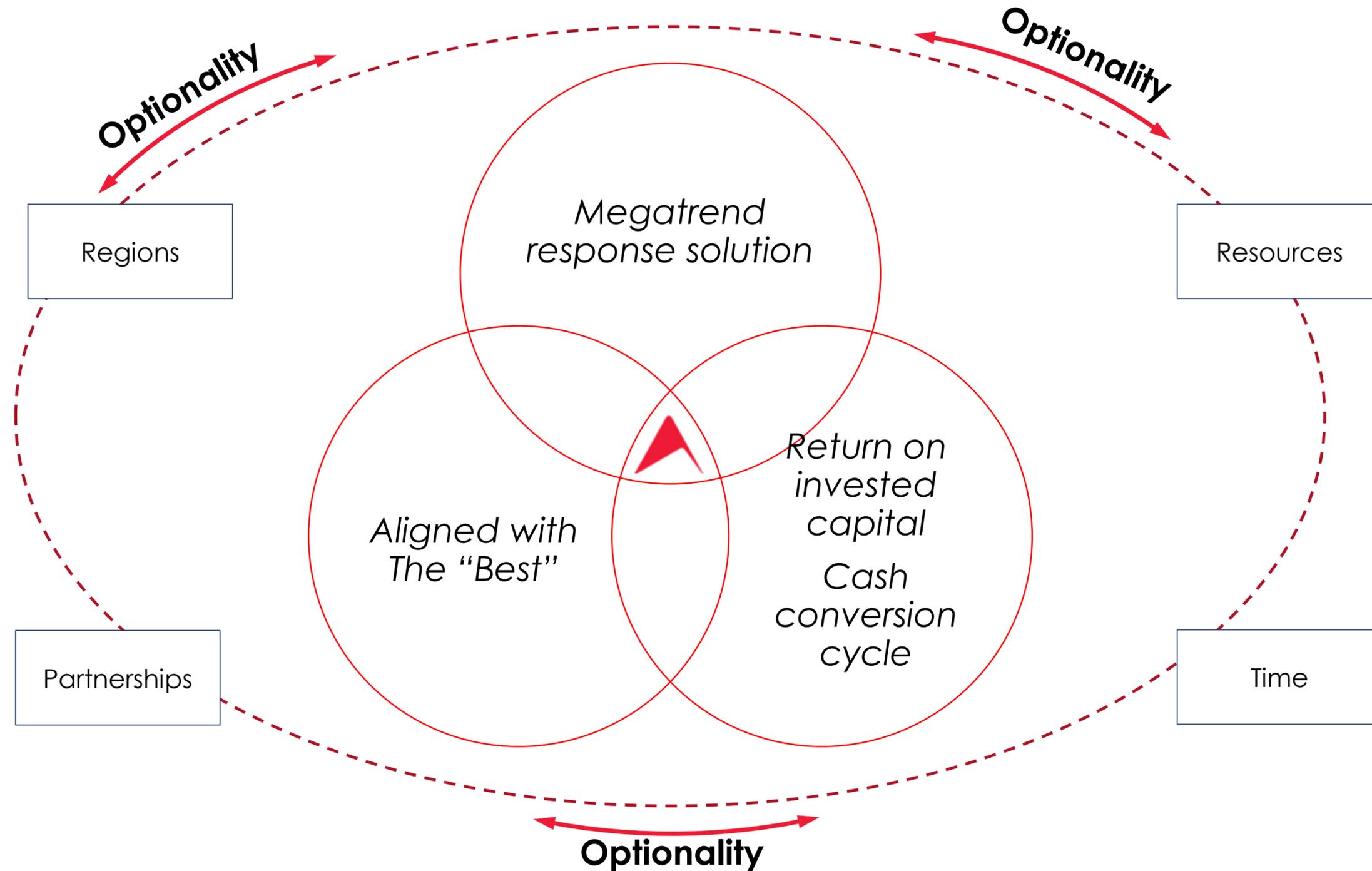
Adjacent
HPA / Other Minerals

Complementary
Great White HRM™
Low carbon footprint cement



Strategic Lens

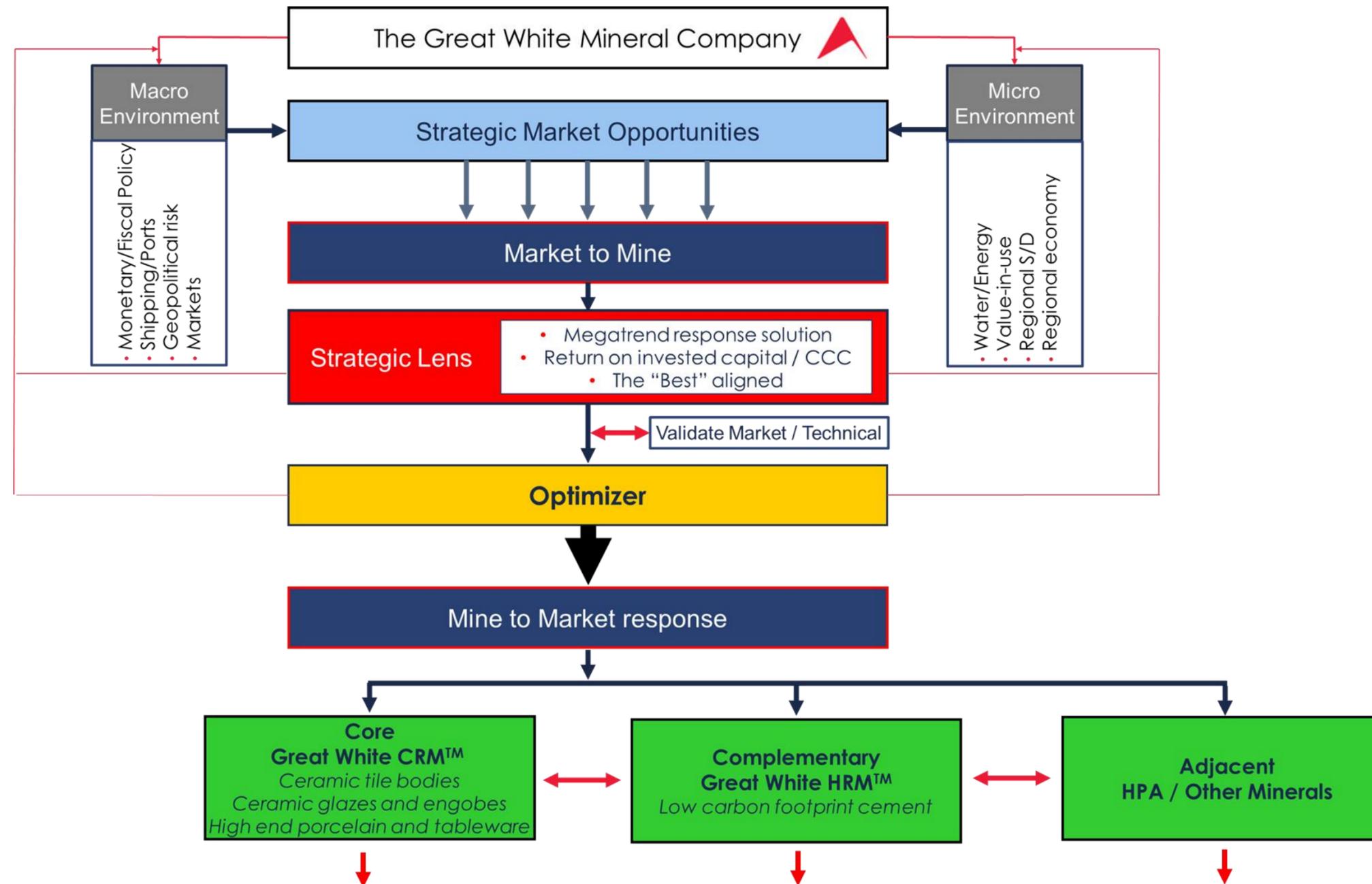
Where we participate, with whom and why





Go To Market

Execute with a focus on Core and Complementary

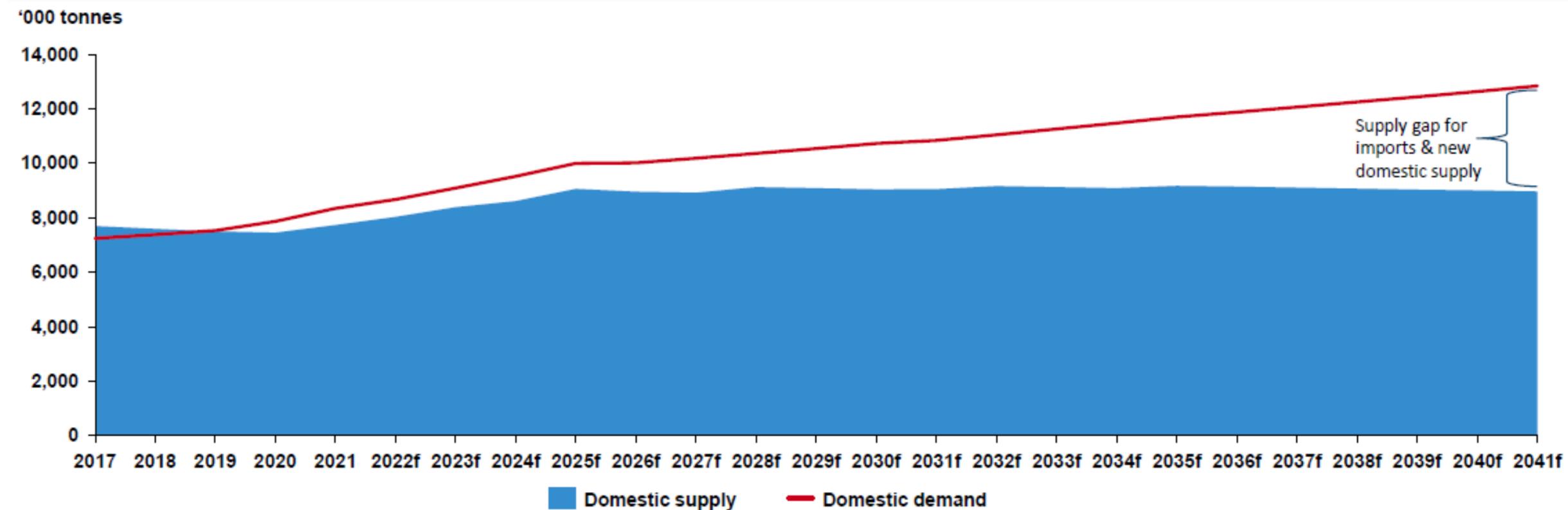




Markets

Kaolin – China Supply Demand Balance

China's domestic supply of kaolin has been constrained due to resource depletion and environmental protection practices that limit mining – TZMI.



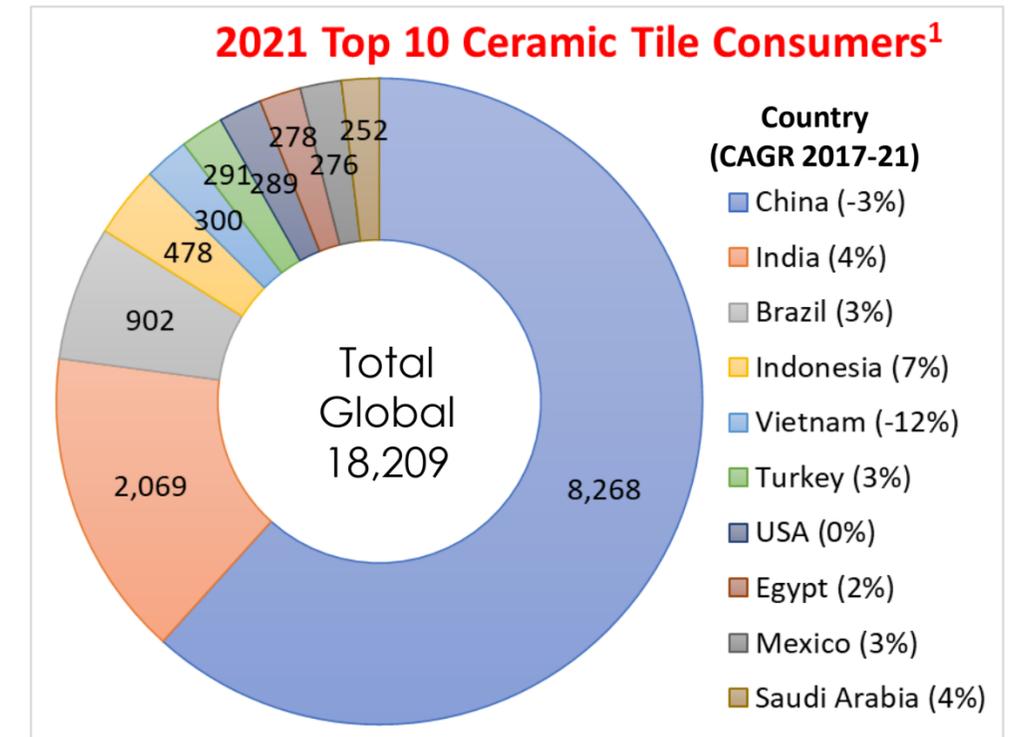
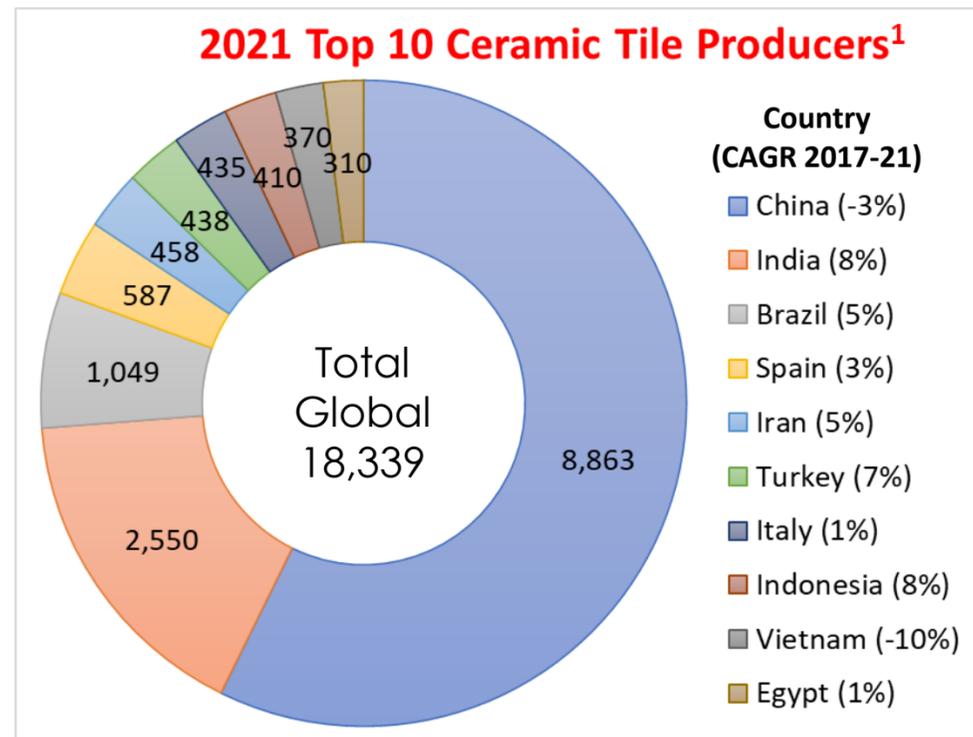
Consider impact of shortfall in long term supply and deficit of high-quality product with some users having to compromise with lower quality product (TZMI).



Global Ceramic Tile Market

Spain and Italy are technology and export leaders

Global tile production, export and consumption, measured in million metric square metres (sqm)
 (2021: Top 10 account for 84%, 85% and 74% of global market for production, export and consumption respectively)



Globally, >60% of tiles produced are porcelain

- For Italy this figure is 90% (of which, 30% unglazed)
- For Spain this figure is 50% (of which, 20% unglazed)

Global ceramic tile production is forecast to grow at 3.2% CAGR to 2026 (21.4bn sqm)¹

- Porcelain tiles are forecast to grow at 7.3%
- Glazed tiles are forecast to grow at 4.7%

Global tile production uses >400 million metric tonnes of materials per year

¹ Data from "World production and consumption of ceramic tiles", MECS/ACIMAC report, 2022



Confirmed High-Quality Global Leader

International benchmarking by IberoClays confirms Great White CRM™ as a market leading product

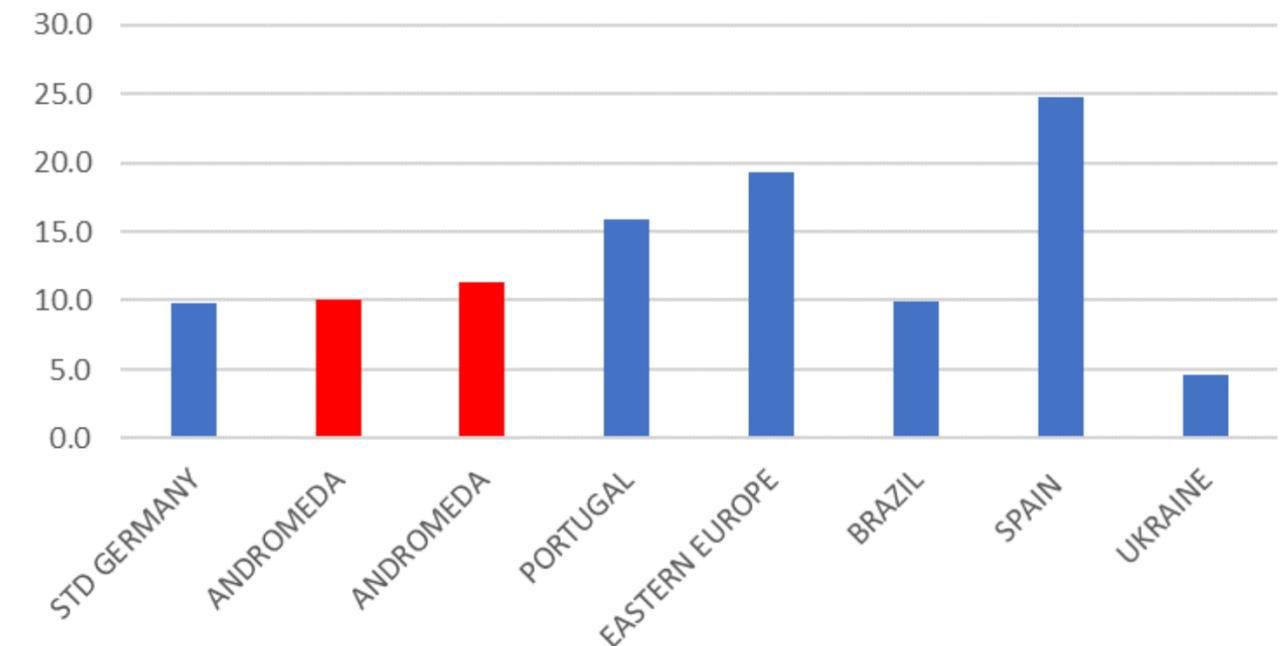
CERAMIC CONTROL

Reference	Supplier	Fired Samples at 1200 C					
		C.L.	AA	p.p.c.	Colour Measurement		
Units		(%)	(%)	(%)	L*	a*	b*
KAOLIN 1	STD GERMANY	8.74	0.03	4.36	81.79	1.96	7.89
CRM-1097	ANDROMEDA	8.77	0.01	4.70	82.35	1.91	7.52
CRM-1098	ANDROMEDA	8.79	0.06	4.64	81.75	1.88	7.56
KAOLIN 2	PORTUGAL	8.19	0.03	4.11	79.32	1.83	8.84
KAOLIN 3	EASTERN EUROPE	8.75	0.01	4.38	79.73	2.00	7.98
KAOLIN 4	BRAZIL	8.70	0.07	4.50	81.32	1.87	7.38
KAOLIN 5	SPAIN	8.36	0.01	4.19	79.20	1.93	9.07
KAOLIN 6	UKRAINE	8.75	0.03	4.68	80.81	1.61	8.49

CERAMIC CONTROL

Reference	Supplier	Mechanical Strength				
		Pressure	R.M. 400	Density	RM1,935	Press
Units		(Kg/cm ²)	(Kg/cm ²)	(g/cm ³)	(Kg/cm ²)	(Kg/cm ²)
KAOLIN 1	STD GERMANY	249	2.83	1.973	2.55	298
CRM-1097	ANDROMEDA	405	2.22	1.912	2.54	457
CRM-1098	ANDROMEDA	398	2.08	1.897	2.79	524
KAOLIN 2	PORTUGAL	251	1.97	1.963	1.79	335
KAOLIN 3	EASTERN EUROPE	247	2.41	1.944	2.40	384
KAOLIN 4	BRAZIL	297	2.10	1.939	2.00	379
KAOLIN 5	SPAIN	252	1.97	1.967	1.73	374
KAOLIN 6	UKRAINE	293	2.22	1.968	2.17	432

Ratio Fe₂O₃/Al₂O₃ Content (x1000)





Ceramic Tile Body Formulation

Value-in-use opportunities versus zircon





Confirmed High-Quality Global Leader

Properties of Great White CRM™ provides above market value-in-use, to fastest growing ceramics segments

Great White CRM™ properties and applications¹

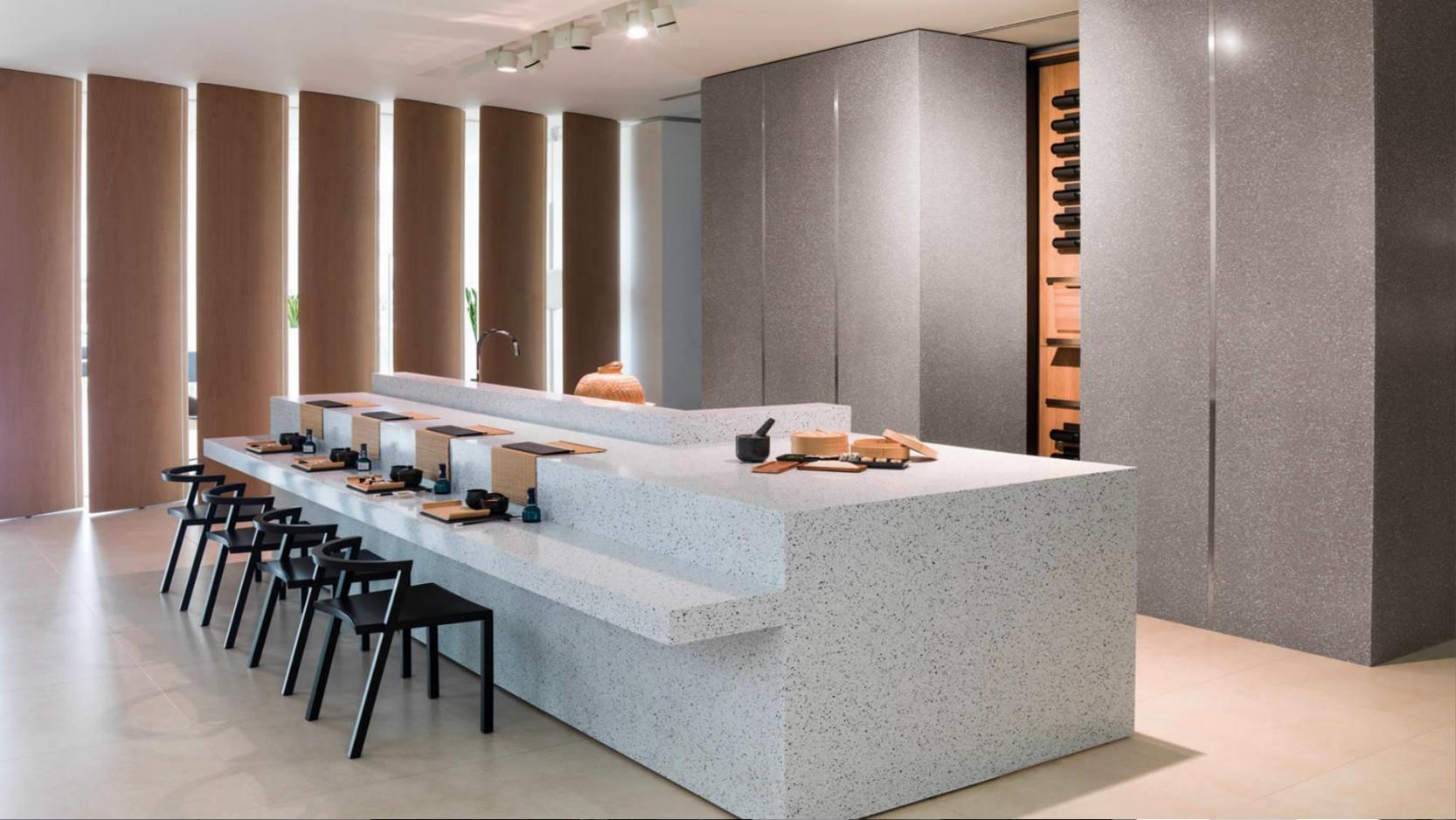
✓ **Top 3 Iron/Aluminium ratio**
(Fe₂O₃/Al₂O₃) of global kaolin samples

✓ High brightness is retained in high temperatures, with very good colour evolution, which is valued in **high quality porcelain and ceramic tiles**

✓ Very high dry mechanical strength is highly-valued in **large format porcelain tiles**

Porcelain and ceramic large format tiles and glazes
Positioned to offer exceptional value-in-use

¹ As determined by testing conducted on Great White CRM™ by IberoClays (May/June 2023)



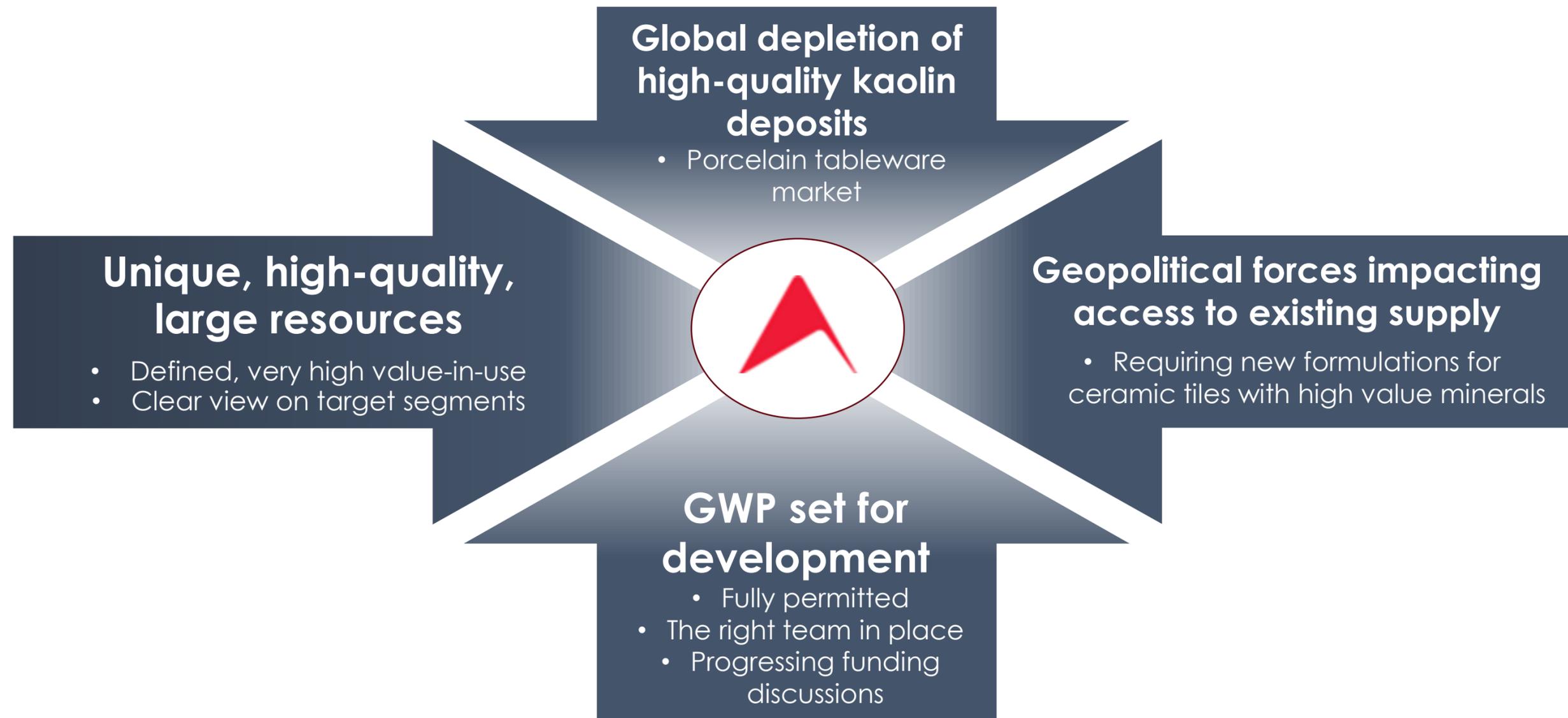
Images of Porcelanosa ceramic and porcelain tiles



Why now?

Forces making now the right time for developing GWP

The confluence of numerous forces means the time to develop The Great White Project is now!





Commercial Strategy Update

A more focused approach to execution

1. Great White CRM™ – progressing analysis for use in porcelain ceramic, glazed, large format tiles

- University of Castellón progressing with technical evaluation and formulation at pilot plant level
- Full results continue to be expected by end of June

2. Great White HRM™ – progressing validation for use as additive to decarbonise cement/concrete

- Technical evaluation is ongoing to validate product
- Recent independent study¹ shows over 7% reduction in Global Warming Potential² for standard commercial concrete mix designs of 32MPa and 40MPa

3. Updated DFS (uDFS) – Delivery expected mid-August

¹ Refer to ADN ASX Announcement dated 22 March 2023 titled *Study Finds Great White HRM™ Offers a Cost-Effective Solution to Decarbonise Concrete*. This study is an independent study and as such, Andromeda Metals Ltd does not warrant the accuracy, reliability or completeness, or the opinions and conclusions, of the study. Regard should be had to the assumptions and qualifications on which the study is based. Andromeda Metals Ltd believes that the value of its products to customers will be determined by various factors including the industry, use and location of the customer.

² Global warming potential (GWP) is a value that allows direct comparison of the impact of different greenhouse gases in the atmosphere by comparing how much energy one tonne of a gas will absorb compared to one tonne of carbon dioxide (Australian Government Clean Energy Regulator)



The last Great White Mineral Deposit

With significant regional exploration potential

In addition to the Great White Project, recent regional drilling results¹ indicate strong resource upside potential:

➤ Chairlift prospect

- Defined 80-120Mt Exploration Target² of High Bright White kaolin (+80 ISO B)
- ❖ **Low Iron/Aluminium ratio of 7.7³**
($\text{Fe}_2\text{O}_3 / \text{Al}_2\text{O}_3 \times 1,000$)
- Low Titanium of <0.2% TiO_2 average

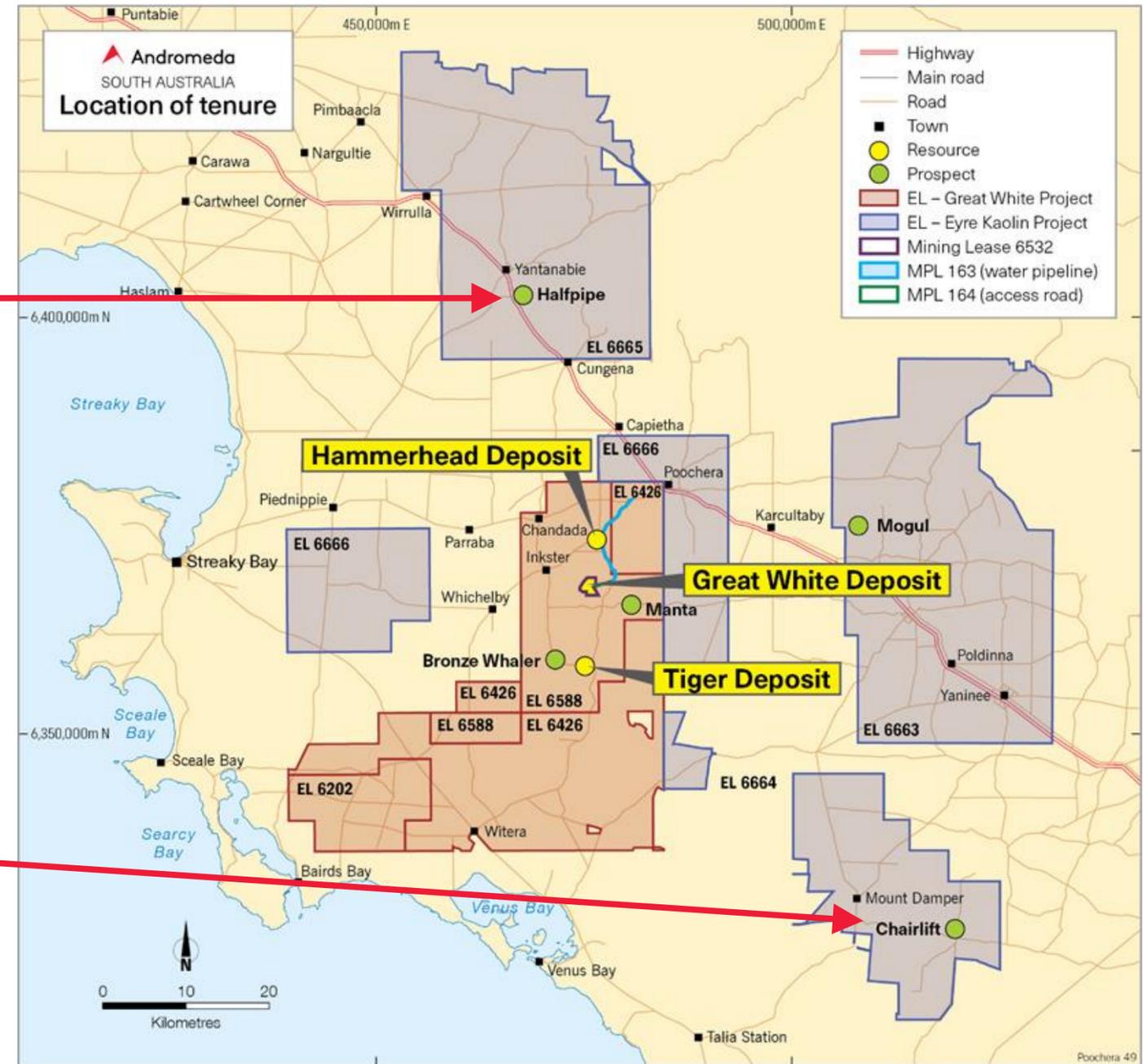
➤ Halfpipe prospect

- >20% halloysite in all 12 drill holes
- Low Iron/Aluminium ratio of 11.7⁴

Halfpipe
extensive high-halloysite (>20%) identified by SEM images

Great White Project:
15.1Mt of JORC Kaolin Ore Reserves
>110Mt of JORC Kaolin Mineral Resources

Chairlift
80-120Mt Exploration Target of High Bright White kaolin (+80 ISO B)



¹ Refer to ADN ASX Announcement dated 29 November 2022 titled *Exploration Target Defined for Chairlift and Extensive High-Halloysite intercepts at Halfpipe*
² The potential quantity and grade of the Chairlift Exploration Target is conceptual in nature as there has been insufficient drilling results to estimate a Mineral Resource, and it is uncertain if further exploration drilling will result in the estimation of a Mineral Resource.

³ Summary intercept CH22AC002 ⁴ Summary intercept HA22AC018



Stage 1A Processing Plant

Design readiness ahead of planned construction



Long lead items - Procurement progress in line with first shipment in October 2024

- Dryer – ordered
 - Thickener
 - Drum washer
 - Filter press
 - Filter cake feeder
- } To be ordered in coming weeks

All items scheduled to arrive according to revised anticipated schedule for **first shipment in October 2024**



Pilot Plant – reset of operations

Preparation for increase in post-validation sample requests

- Focus on **safe, sustainable** operations, producing samples replicating Stage 1A flowsheet
- Review of **Pilot Plant operations** for additional **customer testing** and **further product validation in new segments**
- **Scaling up of capacity** ahead of expected **increase in requests for samples**
- To be completed and **ready by end of July**



Past 60 Days

Achievements

-  **Offtake Agreements** Foshan Gaoming Term Sheet (120,000t) and Yamada Plantan Agreement (25,000t) signed
-  **PEPR** Approved by South Australian Department for Energy and Mining
-  **EPA Works** Granted by South Australia's Environment Protection Authority
-  **Long Lead Items** Long lead items to be ordered in line with first shipment in Oct 2024
-  **Stage 1A Funding** BFS, financial modelling and investment documentation completed and ready to progress debt funding discussions
-  **Virtual Data Room** Data room opened for debt-only investors
-  **Stage 1B Funding** Considering expediting Stage 1B expansion based on market demand



Next Steps

What to expect over next 90 days



Next Steps

Sales & Marketing

Ceramics China 2023 exhibition attended by James Marsh, Exec Director, Sales & Marketing (19-23 June).
Trip to Spain to visit all key producers and potential customers by Marie Sexton, Manager, Business Development (26-30 June).

Offtake Agreements

Targeting new partners for available Stage 1A capacity and explore Stage 1B expansion.

Great White CRM™

Outcomes of technical evaluation and formulation at pilot plant level, including value in use assessment by end users.

Great White HRM™

Technical validation of product by potential customers.

Long Lead Items

Procurement to progress in line with first shipment in Oct 2024.

Stage 1A Funding

Progress in discussions aimed at securing debt funding for Stage 1A.

Virtual Data Room

Additional information provided to support other funding discussions with potential strategic partners covering debt/equity/offtake discussions.

uDFS

Detailed life-of-mine economic analysis and updated Commercial Strategy to underpin equity options.



Andromeda

The Great White Mineral Company

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