

# zeotech



AusPozz™  
making better  
low-carbon concrete

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RIU Conference Sydney

7<sup>th</sup> May 2025

ASX: ZEO

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



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The information in this presentation relating to exploration results for the Toondoon Project is extracted from the following announcements entitled 'ZEO Acquires High-Grade Kaolin Project within Approved ML' released to the ASX on 23 August 2021, 'Notice of General Meeting/Proxy Form (Part 2 of 2) Ausrocks Mineral Estimates Report' released to the ASX on 27 July 2022 and 'Land Purchase Agreements signed Accelerate Toondoon Project' released on to the ASX on 8 December 2022, which are all available on the Company's website [www.zeotech.com.au](http://www.zeotech.com.au)

The Company confirms that it is not aware of any new information or data that materially affects the information included in the original market announcements, and that all material assumptions and technical parameters underpinning the estimates in the original market announcements continue to apply and have not materially changed. The Company 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.





# Investment Highlights

## First Mover Advantage



Becoming Australia's **first commercial producer** of Metakaolin, a Supplementary Cementitious Material (SCM) for decarbonisation of the concrete industry

## Near Term



Approved Mining Lease on company-owned freehold land with a test pit already built. Location of a manufacturing site set.

## Large-Scale Resource



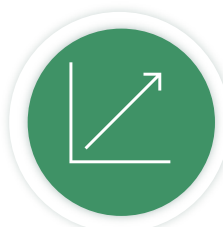
**Ultra-high purity kaolin<sup>1</sup>** with easy access to two major bulk mineral deepwater ports and approved B-Double route from mine pit to Bundaberg port

## Product Validation



Low-carbon concrete trials confirm that AusPozz can replace up to 40% of the cement binder in concrete blends, whilst increasing strength and reducing shrinkage

## Large & Growing Market



The global SCM market is forecast to reach c. US\$40 billion by 2030<sup>2</sup>. SCMs are the most viable alternative to mitigate CO<sub>2</sub> emissions from the cement industry<sup>1</sup>

## Collaboration



MoU with **Holcim Australia**, a leading building materials company, to commercialise AusPozz™ Metakaolin<sup>3</sup>  
MoU with Jiangsu Mineral Sources Int Trading (**MSI**) for Kaolin & Bauxite DSO sales in China<sup>4</sup>

# What is AusPozz™?

## High-Reactivity Metakaolin



### AusPozz™ High Reactivity Metakaolin (HRM)

- Manufactured Pozzolan – the secret of 2000-year-old Roman concrete<sup>1</sup>
- Produced by heating pure kaolin to about 700–750°C
- It can partially replace Ordinary Portland Cement (OPC) binder
- Independently shown to achieve cement replacement of up to 40%<sup>2</sup>
- AusPozz™ HRM is a fully validated product<sup>3</sup> with multiple commercial applications
- Independent carbon footprint evaluation of approx. 204kg/tonne, 79% less than OPC binder<sup>4</sup>

# AusPozz™ offers multiple technical advantages

Lower carbon footprint and material strength, heat, and shrinkage performance benefits<sup>1</sup>

## Increased

Flexural strength  
and abrasion  
resistance

Sulphide  
resistance

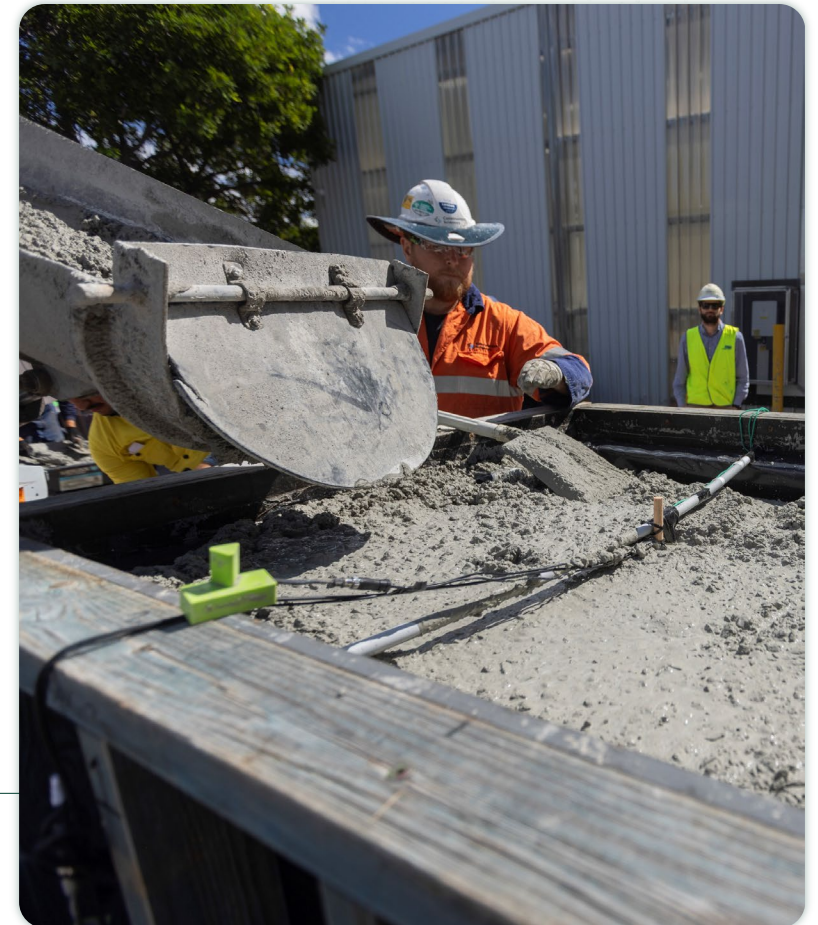
## Reduced

Chloride  
penetration

Heat  
differential

- Circa 79% reduction in embodied carbon vs cement binder
- Increased strength and durability (structural advantages & longer building life)
- Elimination of alkali-silica reaction (concrete cancer)
- Efflorescence control
- Increased flexural strength and abrasion resistance
- Reduces the problem of heat differential in high-volume concrete mix designs

AusPozz™ is a total solution that can deliver positive economic and environmental outcomes.

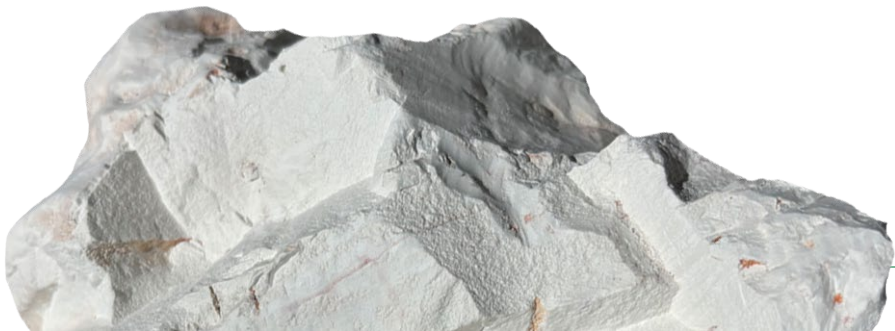
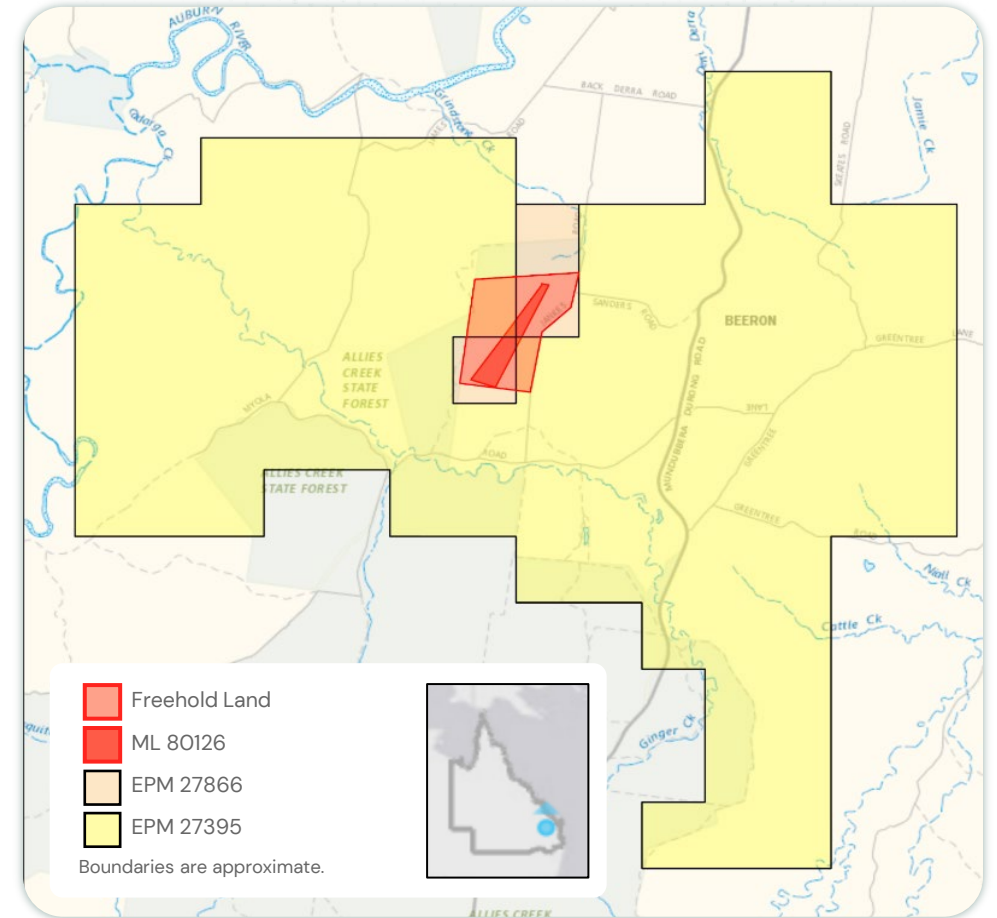




# Toondoon Kaolin Project

Australia's highest-grade known raw ore kaolin resource held under an approved Mining Lease

- Approved Mining Lease (ML 80126)
- Huge tenements covering 28,000ha<sup>1</sup>
- Company ownership of 682ha of freehold land
- 14Mt JORC (Measured 4.85Mt, Indicated 8.21Mt, Inferred 1.08Mt) kaolin resource within only 5% of the tenement footprint<sup>1</sup>
- Resource is open in all directions
- Ultra-high purity kaolin<sup>2</sup> perfect for AusPozz™ production
- Simple open-cut mining with minimal overburden
- Adjacent to heavy vehicle highway close to two bulk mineral ports



# AusPozz™ Project

Bundaberg Port offers transport optionality, utilities, and future renewables access

- Preliminary Feasibility Study (PFS) for AusPozz™ manufacturing well advanced
- LOI signed with Gladstone Ports Corp for a 7.88ha site at Bundaberg Port<sup>1</sup>
- State Development Zoning with access to infrastructure, utilities, and a skilled workforce
- Toodoon is connected to the Port via an approved B-Double route of approx. 260km
- Bundaberg provides an ideal location, enabling coastal and international shipping options





# Market Opportunity

Legislated emission reduction targets set to drive SCM demand for low carbon concrete

## The Size of the Target Sector

- Cement production – 8% of global CO<sub>2</sub> emissions<sup>1</sup>
- Immediate addressable market – almost 30 Million m<sup>3</sup>/pa of concrete in Australia using over 10 Million tonnes of cement<sup>2</sup>
- 14 billion m<sup>3</sup>/pa of concrete produced globally – only behind water as the second most widely used material<sup>5</sup>
- Accessible markets – Asia/Pacific region is the fastest growing market<sup>3</sup>
- Safeguard Mechanism – The Australian Government has set annual emissions limits on industrial facilities, including those in concrete and cement, requiring a reduction in emissions year-on-year to 2030<sup>4</sup>
- Metakaolin – proven technology, an accepted decarbonisation solution and fits current standards

## Collaboration Partner

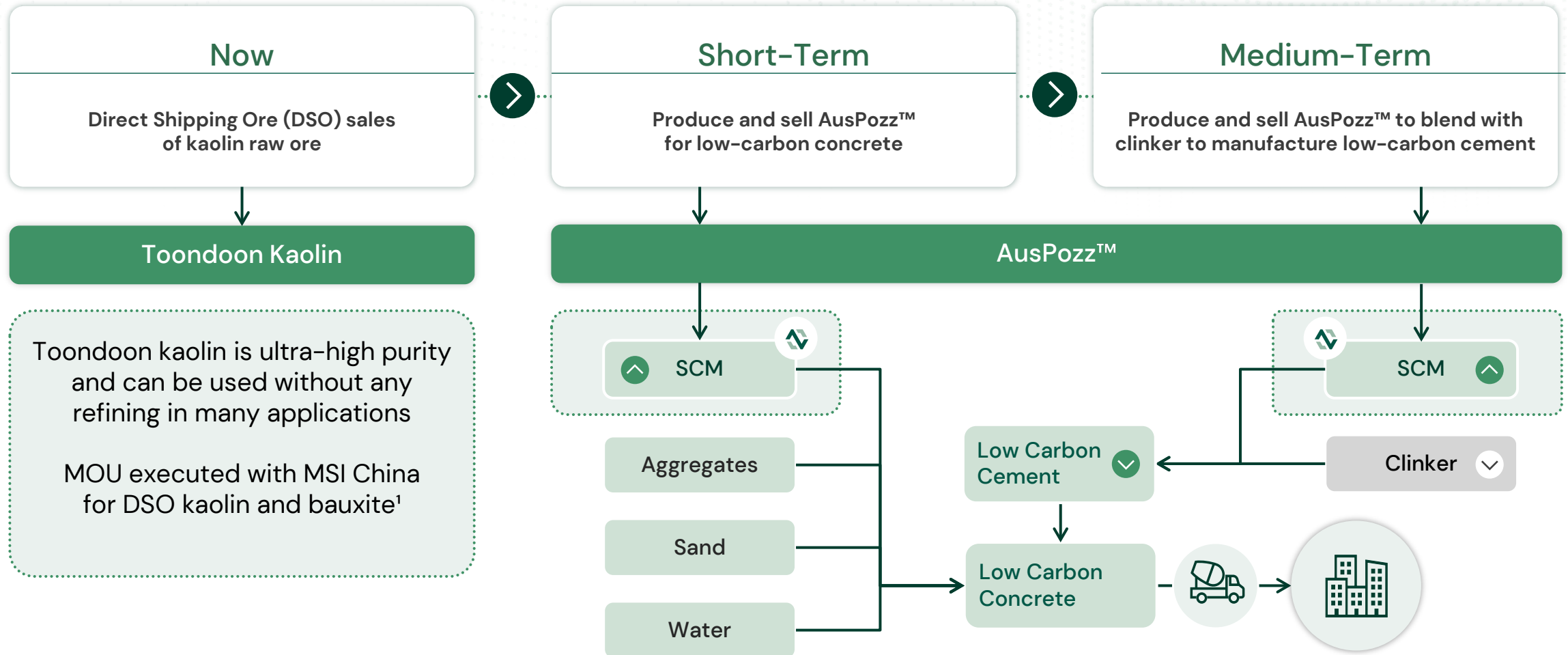
- Holcim Australia – MoU signed Oct 2024, offering future off-take and/or joint venture potential
- Part of the world's largest sustainable building materials company – operating in over 70 countries
- Early metakaolin adopter – already producing and using it around the world





# Commercial Pathways

Immediate low-carbon concrete market and medium-term low-carbon cement potential



# AusPozz™ Technical Progress

## High-Performance Supplementary Cementitious Material

### Holcim Australia (MOU)

**Achieved proof of concept<sup>1</sup>**  
(25% replacement)

**Test results significantly exceeded expectations**

**Supplied more than 2 tonnes of AusPozz™ for testing**

**Planning major live trial using approx. 80 tonnes of AusPozz™**



### Customer Testing Underway<sup>2</sup>

#### Australia

- AdBri
- Heidelberg
- Nucon
- Hallet Group
- Greentech Cement

#### Saudi Arabia

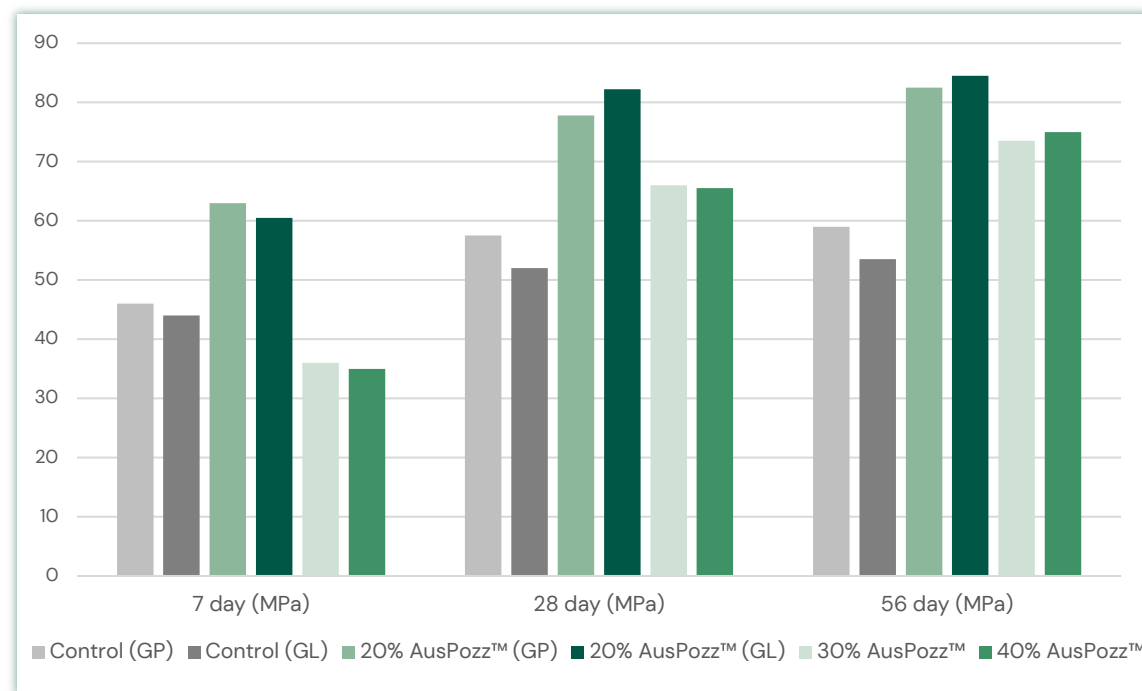
- Riyadh Cement



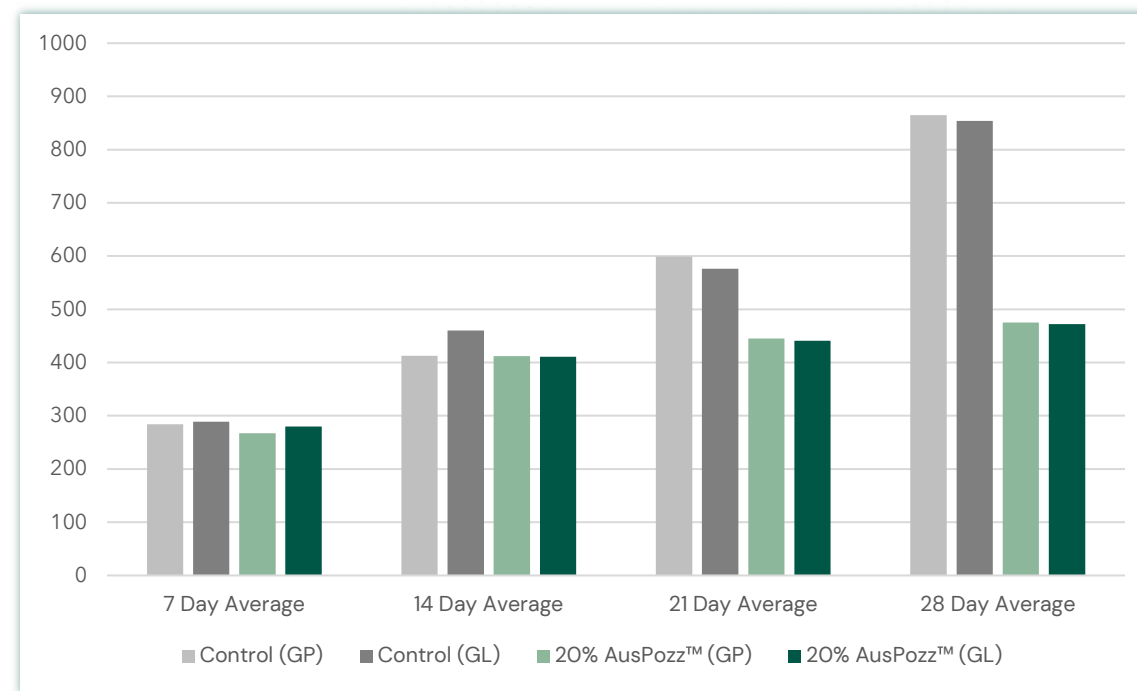
# Independent Testing

Impressive performance across key concrete metrics<sup>1</sup>

40MPa Unconfined Compression Strength (MPa)



40MPa Shrinkage (Microstrains)



**50%** increased concrete strength gain using AusPozz™ to replace 20% of GL Cement (56-day MPa)

**50%** Reduction in concrete shrinkage using AusPozz™ to replace 20% of Cement

# Near Term Value Drivers

Multiple catalysts pending in a major market advancing low-carbon concrete

## Toondoon DSO Kaolin

- ✓ Completed test pit and engaged mining engineer and consultants for final approvals
- ✓ Continued engagement with Wide Bay Burnett Resources Group and local Government to accelerate time to mining
- ✓ Engaged Gladstone Ports Corporation on DSO storage and ship loading facilities at the Port of Bundaberg
- ✓ Secured commercial intent MoU agreement with MSI China for kaolin DSO, kaolin cosmetic grade DSO and bauxite
- Complete commercial test run using the Port of Bundaberg facilities
- Finalise and execute binding DSO offtake agreement(s)
- Complete an extensive drilling campaign to increase and upgrade the current high-grade Toondoon kaolin resource

## AusPozz™ High Reactivity Metakaolin

- ✓ Secure industry collaboration to progress low-carbon concrete pilot trials
- ✓ Continued engagement with State and Federal Government to advance low-emission technology funding support
- ✓ Vendor product testing for AusPozz™ production
- ✓ Complete third-party life-cycle analysis to validate the in-house carbon benefit assessment of ZEO HRM in cement and concrete
- Complete Preliminary Feasibility Study (PFS) to showcase the AusPozz™ Project's business case
- Complete commercial-scale production run of AusPozz™
- Secure AusPozz™ binding offtake agreements and/or commercial intent MoU agreements



# Corporate Overview



**\$166m**

Market  
capitalisation



**\$2.29m**

Cash at bank  
(31 Mar 2025)



**\$0.09**

Share price



**1.85Bn**

Shares on issue



**2.5c-10c**

52-week range

## Board & Management



**Sylvia Tulloch**

Non-Executive Chair

Materials scientist with many years' experience in the establishment & management of high-technology businesses, with a focus on mineral processing, commercialisation, & the cleantech sector.



**Peter Zardo**

Managing Director

Over 25 years of corporate finance, business advisory & project management experience, including 17 years in the corporate banking division of the Westpac Group.



**Shane Graham**

Executive Director

High-performing business leader with over 30 years of extensive experience in the building materials sector, including executive management roles with two of Australia's leading building materials companies, including 5 years at Holcim Australia and over 20 years at Boral Ltd.



**Rob Downey**

Non-Executive Director

Qualified solicitor who has practised mainly in international resource law, corporate law & initial public offerings, and mergers and acquisitions.



**James Marsh**

Chief Executive Officer

Over 30 years of industrial minerals & material sector experience, including 15 years with Imerys Minerals Limited, a French multinational specialising in the production & processing of industrial minerals.



## For Further Information

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