



# Industrial Minerals For A Cleaner World

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Noosa Mining Conference

November 15<sup>th</sup> 2024

ASX: ZEO

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



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## ASX Listing Rule 5.23

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.



# Corporate Snapshot



**\$107m**

Market capitalisation



**\$3.4m**

Cash at bank<sup>1</sup>  
(30 Sep 2024)



**\$0.058**

Share price



**1.85Bn**

Shares on issue<sup>2</sup>

## Board & Management

**Sylvia Tulloch**

Non-Executive Chair

**James Marsh**

Chief Executive Officer

**Peter Zardo**

Managing Director

**Scott Burkhart**

Chief Operating Officer

**Rob Downey**

Non-Executive Director

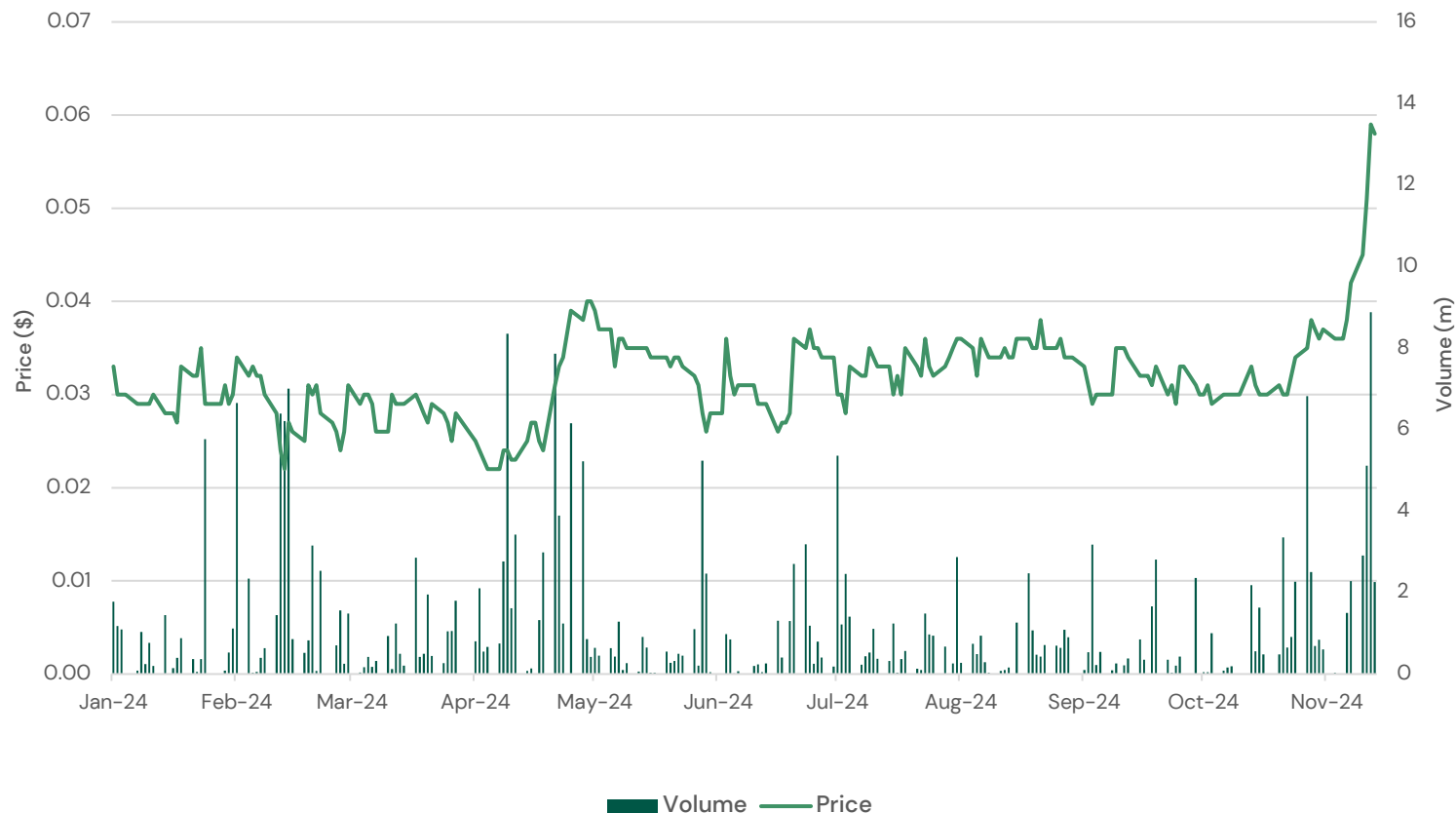
**Dr. John Vogrin**

Head of Projects, R&D

## Technical Partners



## Share price and volume





# Investment Highlights

## First Mover Advantage



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

## Climate-Tech Focus



Developing a **Zeolite** based solution for methane emissions and animal nutrition

## Large-Scale Resource



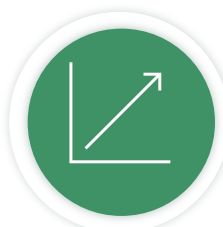
Ultra-high purity kaolin<sup>1</sup> with easy access to two major bulk mineral deepwater ports

## Near Term



Approved Mining Lease on Company owned freehold land with a test pit already built

## 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>

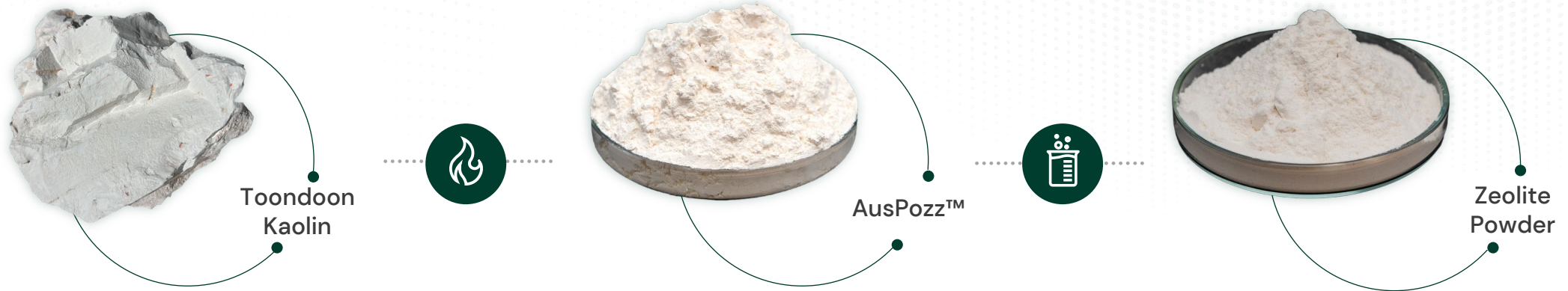
## Collaboration



Metakaolin MoU with Holcim Aust a leading building materials company. Zeolite MoU with Protekta (US animal nutrition Co.) and collaborating with Cleanaway (Aust leader in waste management) on methane control

# What are Zeotech Minerals?

Industrial minerals for a cleaner world



## AusPozz™ High Reactivity Metakaolin (HRM)

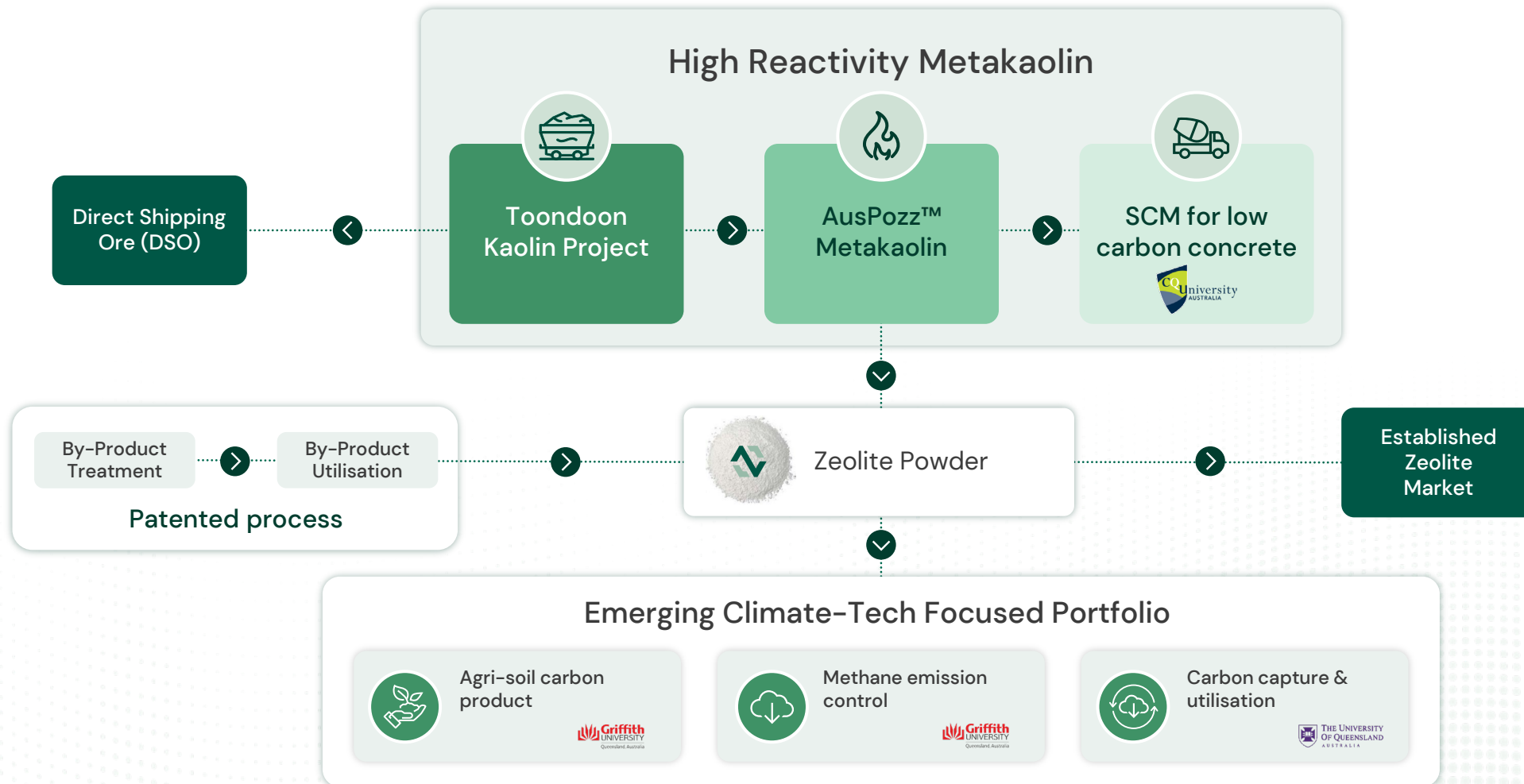
- Manufactured Pozzolan – the secret of 2000 year old Roman concrete
- Produced by heating pure kaolin to about 750°C
- It can partially replace Ordinary Portland Cement (OPC) and other SCM's
- Currently being used to achieve carbon reduction of up to 40%<sup>1</sup>
- AusPozz™ HRM is a fully validated product<sup>2</sup>

## Manufactured Zeolite

- Manufactured zeolites are aluminosilicate minerals with a sponge-like structure (framework) with specific pore sizes
- Zeotech has patented, patent-pending and trade-secret process technology for manufacturing zeolites from metakaolin.
- Acting like a magnet, their tiny pore sizes make them useful as adsorbents, catalysts and ultrafine filters.
- Used in laundry detergents, air purification, water treatment, and animal health, alongside emerging opportunities for methane emissions control and agri-soil products.

# Integrated Mineral Processing Tech Company

Advancing 'shovel ready' high-grade kaolin resources and proprietary IP to drive decarbonisation

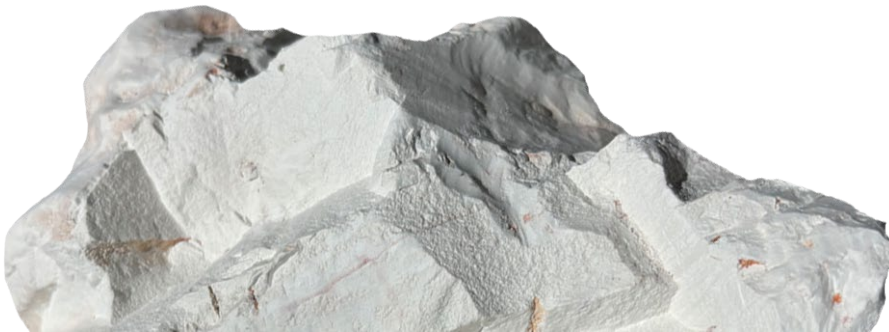
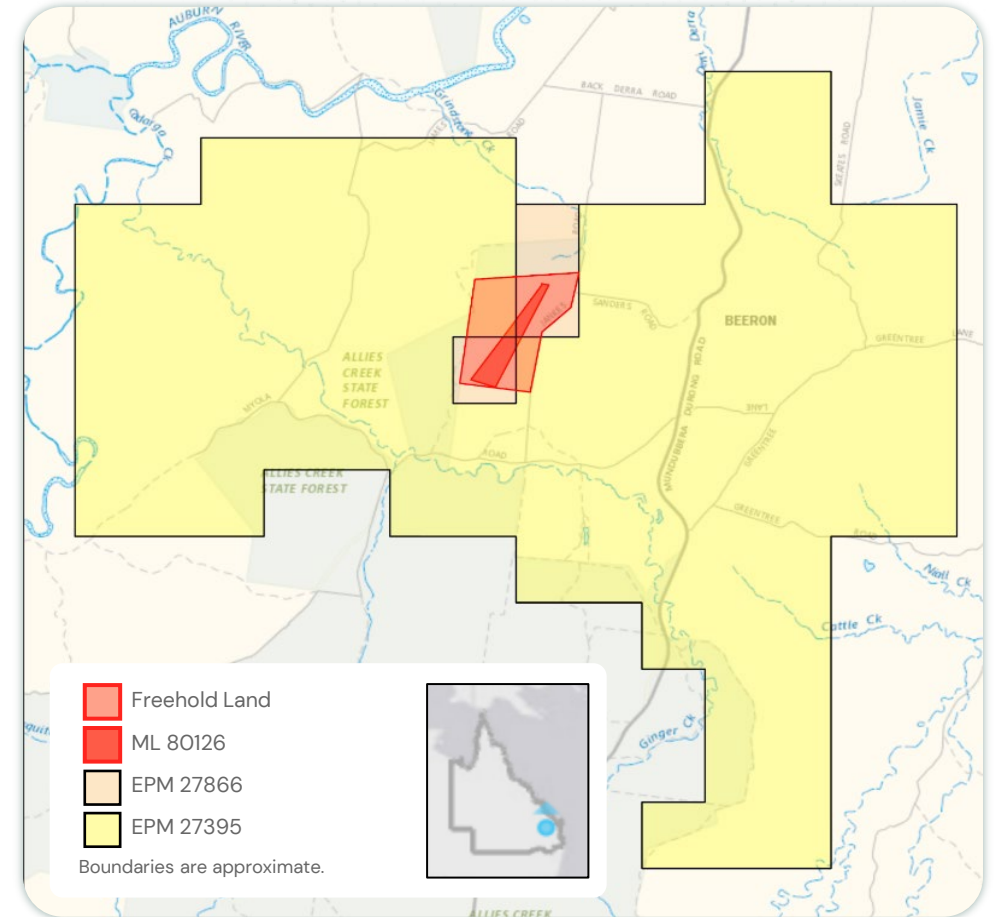




# Toondoon Kaolin Project

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

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



# Metakaolin 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<sup>2</sup>
- Accessible markets – Asia/Pacific region is the fastest growing market<sup>3</sup>
- Legislated reductions – Australian government has introduced policies requiring companies to decarbonise<sup>4</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>
- Metakaolin – proven technology and an accepted decarbonisation solution

## Collaboration Partner

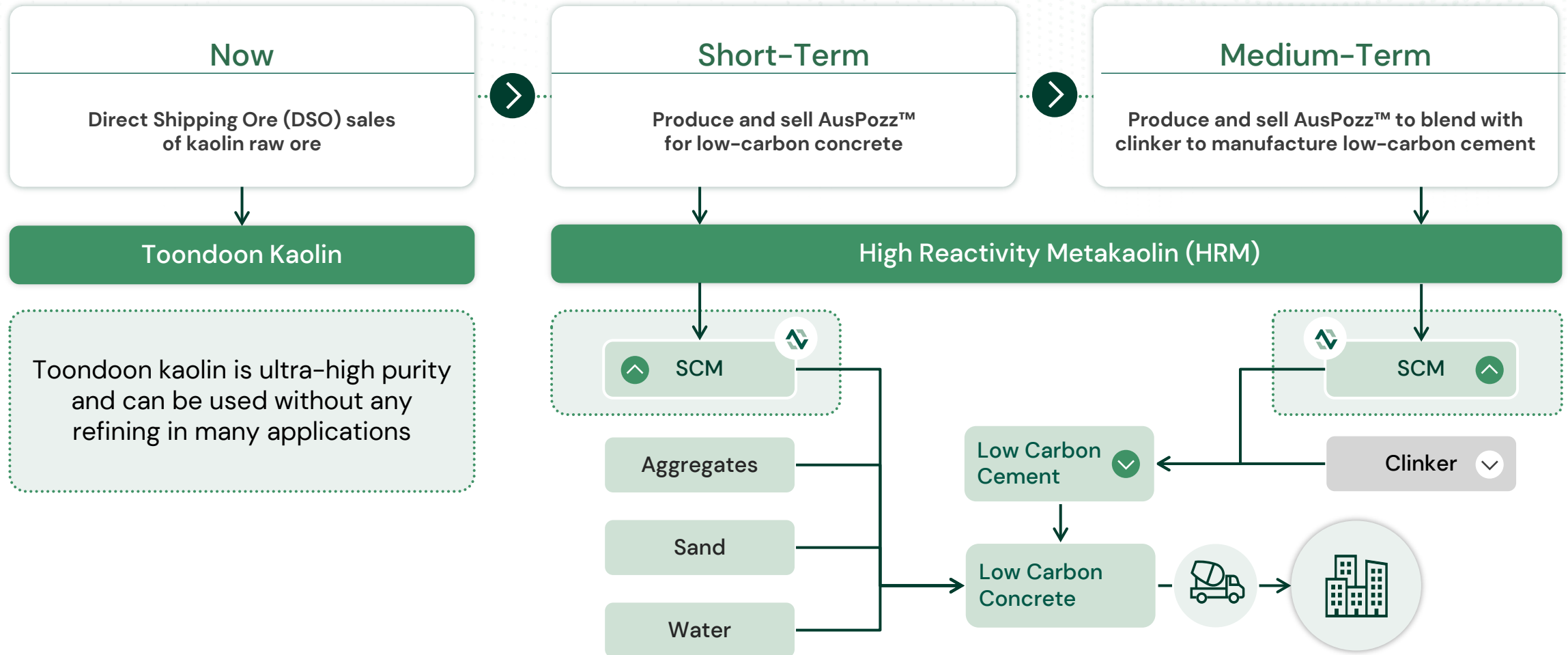
- Holcim Australia – MoU signed Oct 2024, offering future off-take and/or joint venture potential
- Part of the world's largest sustainable building materials company – operating in over 70 countries
- Early metakaolin adopter – already producing and using it around the world





# Commercial Pathways

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



# Near Term Value Drivers

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

## Toondoon Kaolin

- ✓ Validate product
- ✓ Complete test pit to secure sufficient kaolin for commercial approvals
- ✓ Produce sufficient AusPozz™ and Zeolite for commercial trials
- ✓ Engage mining engineer and consultants for final approvals
- ✓ Continued engagement with Wide Bay Burnett Resources Group and local Government to accelerate time to mining
- Increase and upgrade the current resource
- Secure binding off-takes for kaolin DSO

## AusPozz™ High Reactivity Metakaolin

- ✓ Commence life-cycle analysis to evaluate carbon benefit of ZEO HRM in cement and concrete
- ✓ Secure industry collaboration to progress low-carbon concrete pilot trials
- ✓ Continued engagement with State and Federal Government to advance low-emission technology funding support
- ✓ Conduct equipment scoping and product testing for HRM production
- Complete feasibility studies (PFS) and life-cycle analysis in Q2 2025 to advance commercial readiness
- Run live construction trials with AusPozz™
- Secure binding off-takes for AusPozz™



## For Further Information

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