# Investor Presentation Level 27 Santos Place, 32 Turbot Street, Brisbane, Queensland, 4000 Zeotech Limited

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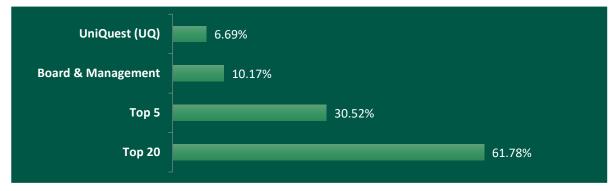
# Corporate overview

Capital structure	
Shares on issue:	1,379,051,184
Options on issue: (unlisted, \$0.015, expiry: 4/2024)	20,000,000
Performance rights:	125,000,000
Share price:	\$0.042
Market capitalisation (fully diluted):	\$64m
Debt	Nil

Board & Management	
Non-Executive Chair	Sylvia Tulloch
Managing Director	Peter Zardo
Non-Executive Director	John Goody
Non-Executive Director	Rob Downey
Company Secretary	Neville Bassett



### Shareholder profile





# Company overview

### An emerging industrial kaolin and mineral processing technology company

Leveraging novel and proprietary technologies to drive industry partnerships and future production of industrial mineral products and sophisticated materials.

### **Abercorn Kaolin Project**

- ~200km² Central Queensland tenement acquisition (August 2019)
- Maiden JORC delivered (July 2020)
- Commercial Grade Synthetic Zeolite produced from Abercorn kaolin (July 2020)

### Zeolite mineral processing technology (patent-pending)

- University of Queensland Partnership and Exclusive Global Licence secured (April 2020)
- Patent Cooperation Treaty (PCT) filing (May 2020)
- UQ Research Agreement (May 2020) and Mine Tailings and Process Residue Research Agreement (August 2020)
- Early market interest in China (June 2020 / August 2020)
- Exploring Agricultural Applications for Synthetic Zeolites (September 2020)
- Lithium Process Residue Patent Application lodged and Commercial Grade Zeolite produced (October 2020)

# Abercorn kaolin

### **Evaluating industrial kaolin marketability**

- Maiden JORC resource delivered
- Industrial kaolin product development assessment underway
- Large scale mineralised system from surface
- Low cost operation straight forward open cut mining
- Little to no overburden
- Low impurities
- Mains power on site (major power transmission line within 5km)
- Large water supply nearby and within EPM
- 135kms sealed highway to two major deep-water ports

## Optimal feed for zeolite mineral processing technology



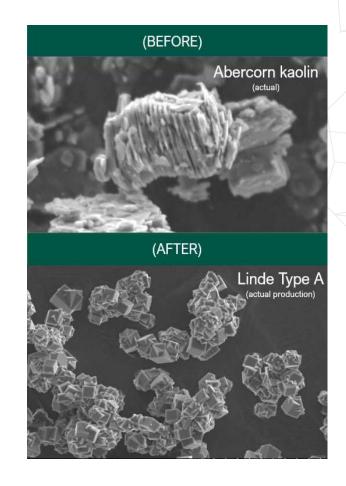
# Mineral processing technology (synthetic zeolite)

Simply, a novel patent-pending mineral process for the **low cost production of synthetic zeolites** 

The UQ Chemical Engineering team has demonstrated (under lab-scale conditions):

- Up to 70% reduction in energy consumption thermal activation stage
- Up to 80% reduction in production time subsequent zeolite precipitation steps
- Significant reduction in by-product waste
- Originally developed as a remediation solution for mine tailings
- Primary commercial plant P&E remains 'conventional' = low CapEx

Commercial grade Type A zeolite and molecular sieve grade zeolite produced



Images: Dr. Hong (Marco) Peng, The University of Queensland



# What are synthetic zeolites?

Synthetic zeolites are manufactured aluminosilicate minerals with a sponge-like structure (frameworks), made up of tiny pores that make them useful as adsorbents, catalysts and ultrafine filters.

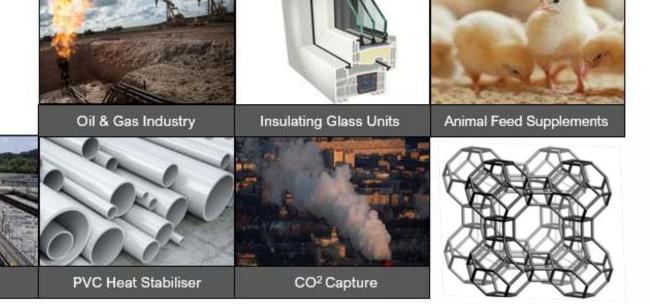
They can be designed to selectively adsorb molecules or ions dependant on their unique construction and have the ability to be regenerated over and over again for re-use (recycled)

### Diverse commercial applications:

- Energy sector
- Environmental management solutions
- Sustainable food production

Detergent Builder

Water Treatment



# The Type A synthetic zeolite market

### A mature established market valued at >A\$2.6Bn:

Detergent grade zeolite manufactured for 30+ years

- 4A detergent grade = A\$600-700/t
- 4A PVC heat stabiliser grade = A\$725-785/t

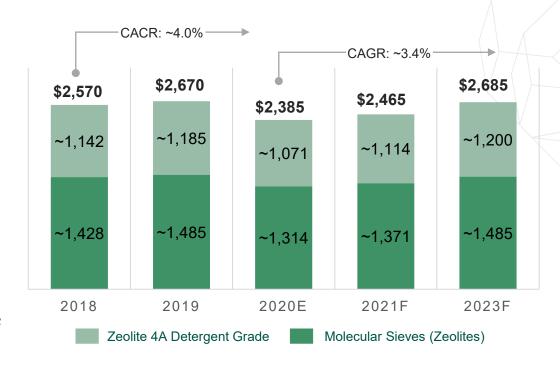
### Targeting high value Type A Molecular Sieves

3A, 4A and 5A molecular sieve grade

- A\$2,850-4,000/t (beads)
- A\$3,000-3,785/t (pellets)

UQ has synthesised Type 3A zeolite which represents >40% of the global molecular sieve grade market

Global **Type A** synthetic zeolites market, by grade (A\$ million)

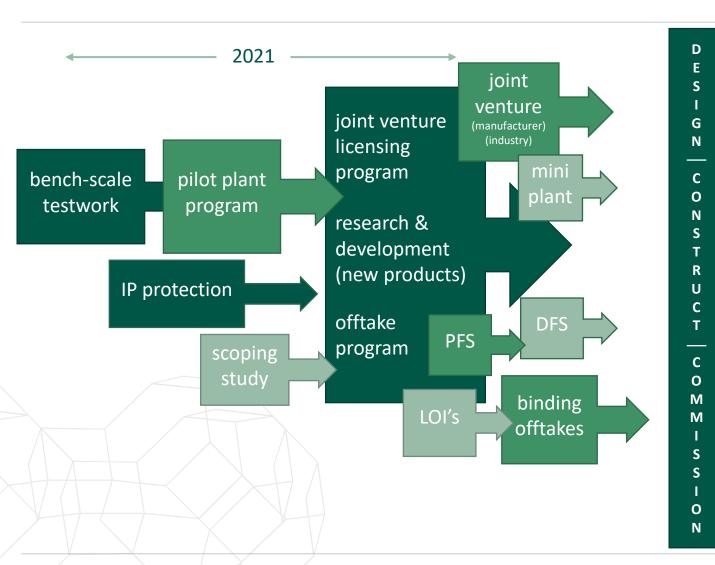


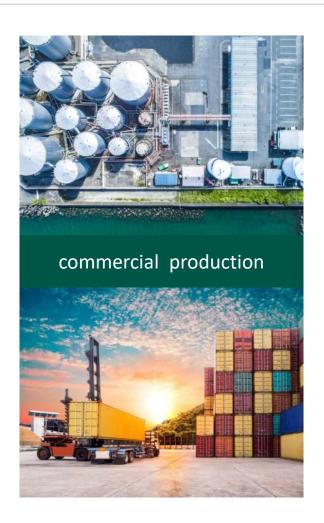
AUD = USD 70c (FX)

Aranca – Global Analysis 4A Detergent and 3A, 4A and 5A molecular sieves grade Nov 2020 (market data)



# Commercialisation - patent-pending IP provides optionality

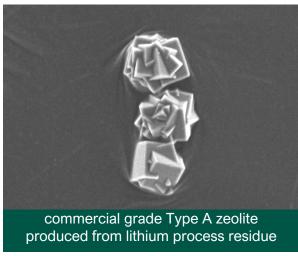




# What's next

- Accelerate on-the-ground primary zeolite market research; China (completed),
   with India and Japan underway
- Commence direct introduction program with global zeolite industry participants (manufacturers and end-users)
- Maintain momentum on zeolite industry partnership attraction, focusing on commercial mine waste remediation and agriculture
- UQ to commence zeolite bench-scale piloting Q1 CY2021, pilot plant construction scheduled to begin Q2 CY2021
- Continue assessing Abercorn kaolin commercial marketability and further develop the company's industrial kaolin strategy





Images: Dr. Hong (Marco) Peng, The University of Queensland



# Summary

### Abercorn kaolin



- Large-scale kaolin resource
- Low cost operation
- Industrial mineral potential
- Power, water and two ports within 135km

**Optimal feedstock** 

### Zeolite mineral processing technology



- Strong technical partner in the University of Queensland
- Low cost zeolite production (major environmental benefits)
- Conventional P&E = low CapEx plant
- Targeting >A\$2.6Bn global Type A zeolite market
- ► High value zeolite production >A\$2,850/t

Aranca – Global Analysis 4A Detergent and 3A, 4A and 5A molecular sieves grade Nov 2020 (market data)



# Thank you

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