

Calix Limited

EnviroTalks

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# MARS IS FOR QUITTERS



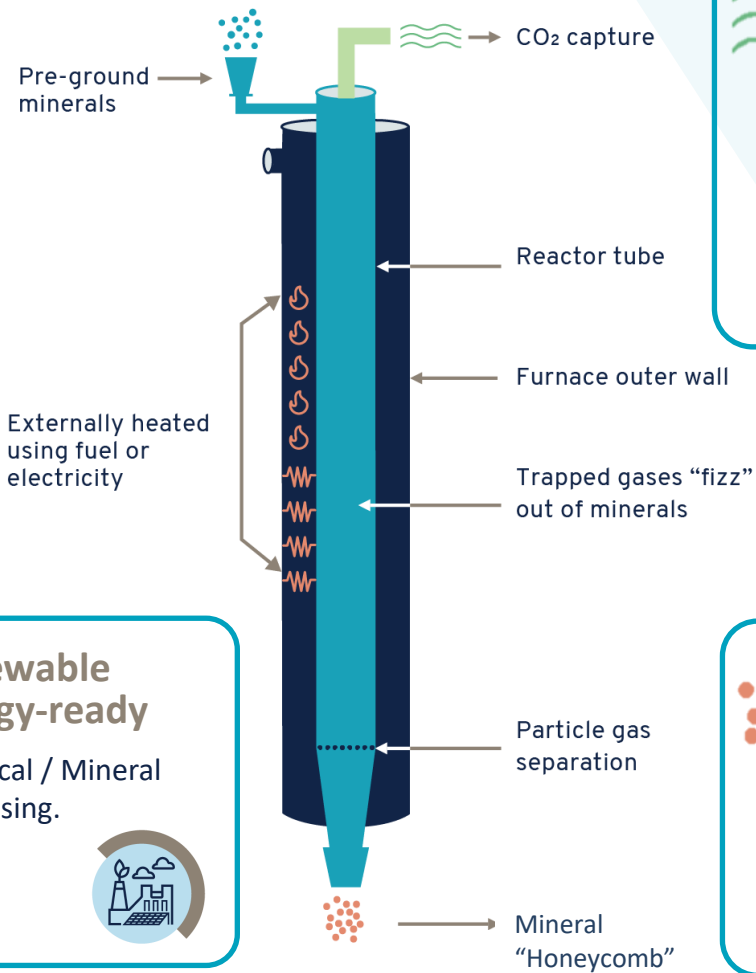
We believe our responsibility starts at home.

That's why we're driven to use our unique technology to repair, preserve and prevent future harm to it.

Because there's only one Earth, and it's already ours.

# Calix's core technology – A new way to “heat stuff up”

A PATENTED PLATFORM KILN TECHNOLOGY WITH **3** KEY FEATURES



**1** **CO<sub>2</sub> capture**  
When processing limestone, gas exhaust is high purity CO<sub>2</sub>

**3** **Renewable energy-ready**  
Chemical / Mineral Processing.

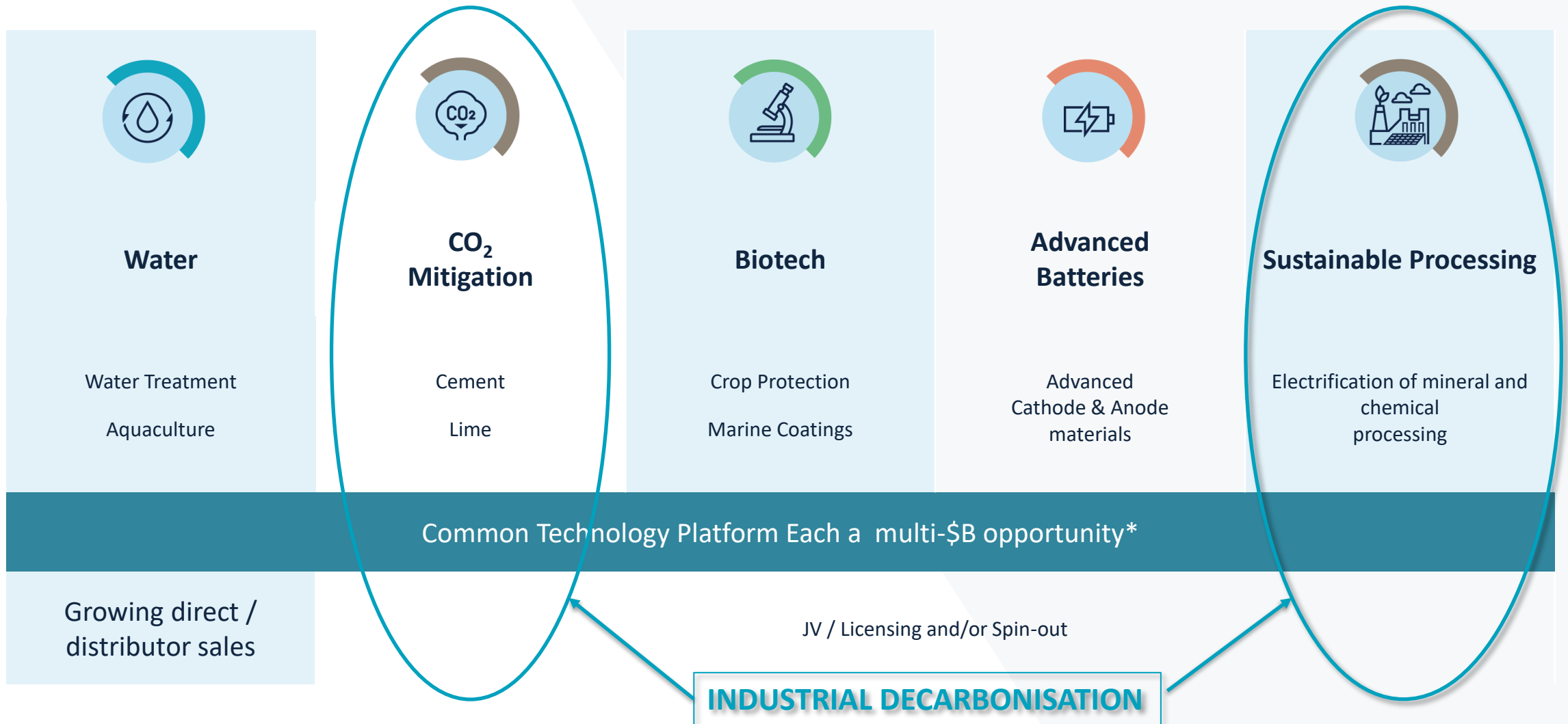
**2** **Highly-active materials**  
Highly porous “honeycomb” structure = more chemical- and/or bio-activity, safer and more environmentally friendly

**Developed, protected and in the right space at the right time...**

- 26 patent families covering core technology and applications
- >A\$100m has been invested to date in developing the technology.
- ESG** Global legislative and investment tailwinds continue to strengthen



# Calix Limited is developing multiple environmental business opportunities



*\*Frost and Sullivan - Market Opportunity for Calix Flash Calcination : Calix Prospectus 2018, Section 2 for Water, CO<sub>2</sub>, Advanced Battery (including Sustainable Processing) and Crop Protection opportunities*

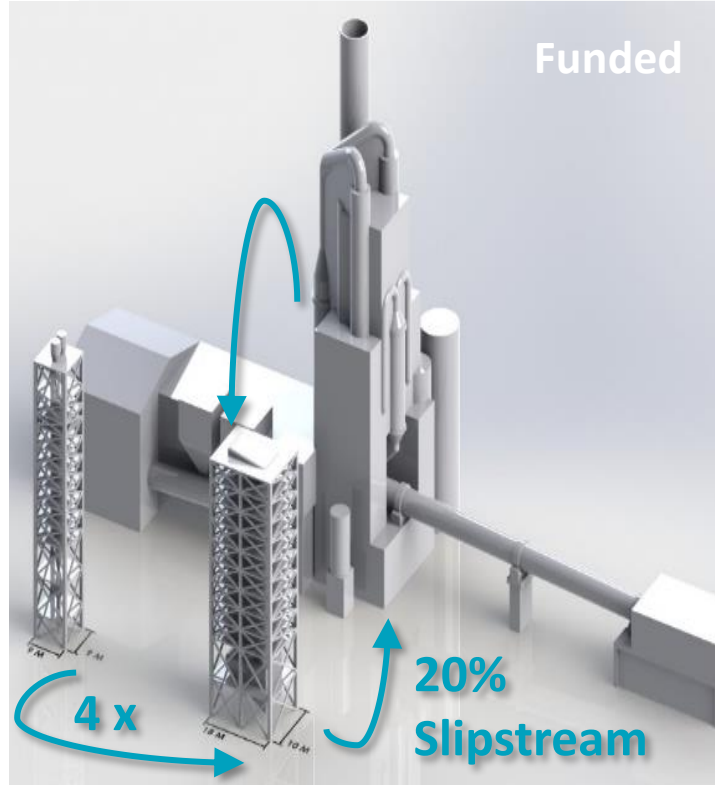
# CO<sub>2</sub> Mitigation – Calix's LEILAC Technology



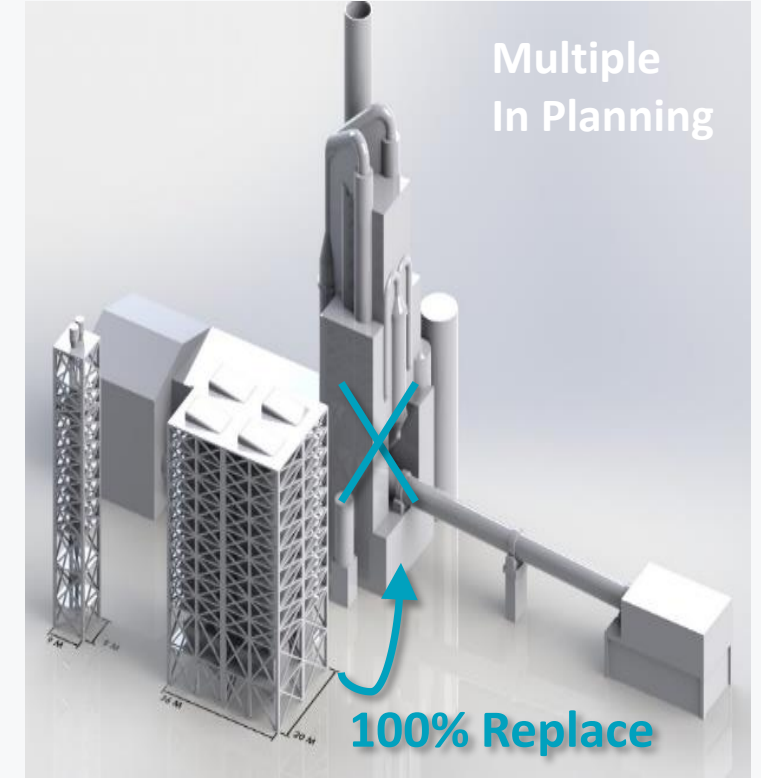
LEILAC-1 Belgium 2019  
25,000 Tonnes / Year CO<sub>2</sub>



LEILAC-2 Hannover 2023/4  
100,000 Tonnes / Year CO<sub>2</sub>



LEILAC-3 ASAP!  
500,000 Tonnes / Year CO<sub>2</sub>



***BUT .... we need to mitigate 2.2 billion tonnes = 4,400 LEILAC-3's = 1 built every ~3 days from now until 2050 !!***



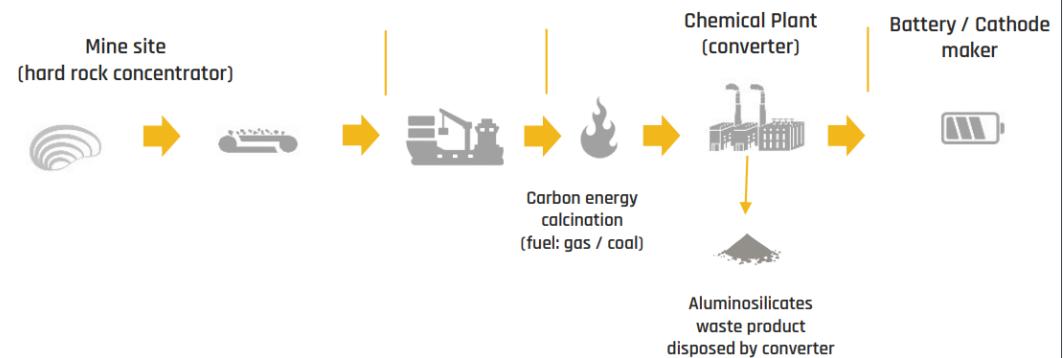
### Midstream - Exploring Value-Added Products (lithium salts)

#### Conventional spodumene supply chain:

- Carbon intensive
- Aluminosilicates shipped to customer (>90% of export mass)
- Spodumene concentrate SC6.0
  - 6.0% Li<sub>2</sub>O (2.80% lithium metal by mass)



Left: Spodumene coarse concentrate

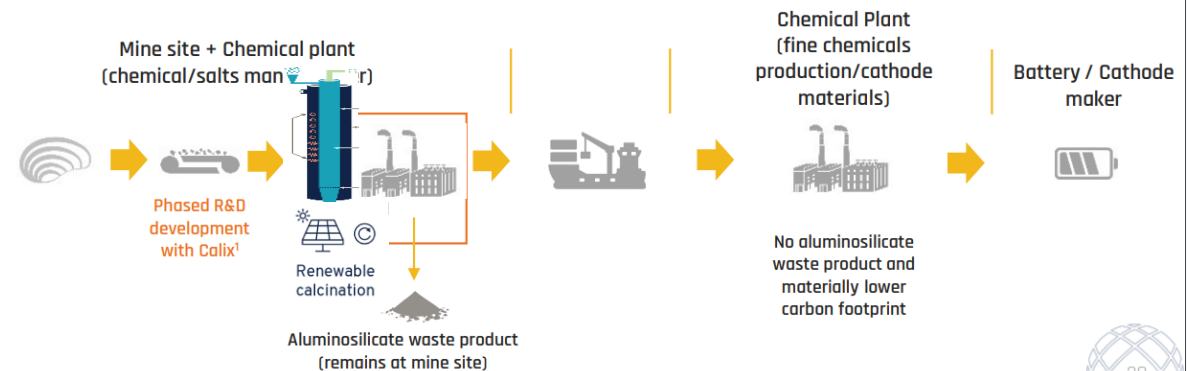


#### Alternate spodumene supply chain:

- Reduced carbon intensity
- Aluminosilicate waste remains at mine site
- Lithium salts shipped
  - >35% Li<sub>2</sub>O (>15% lithium metal by mass)



Left: Lithium salts

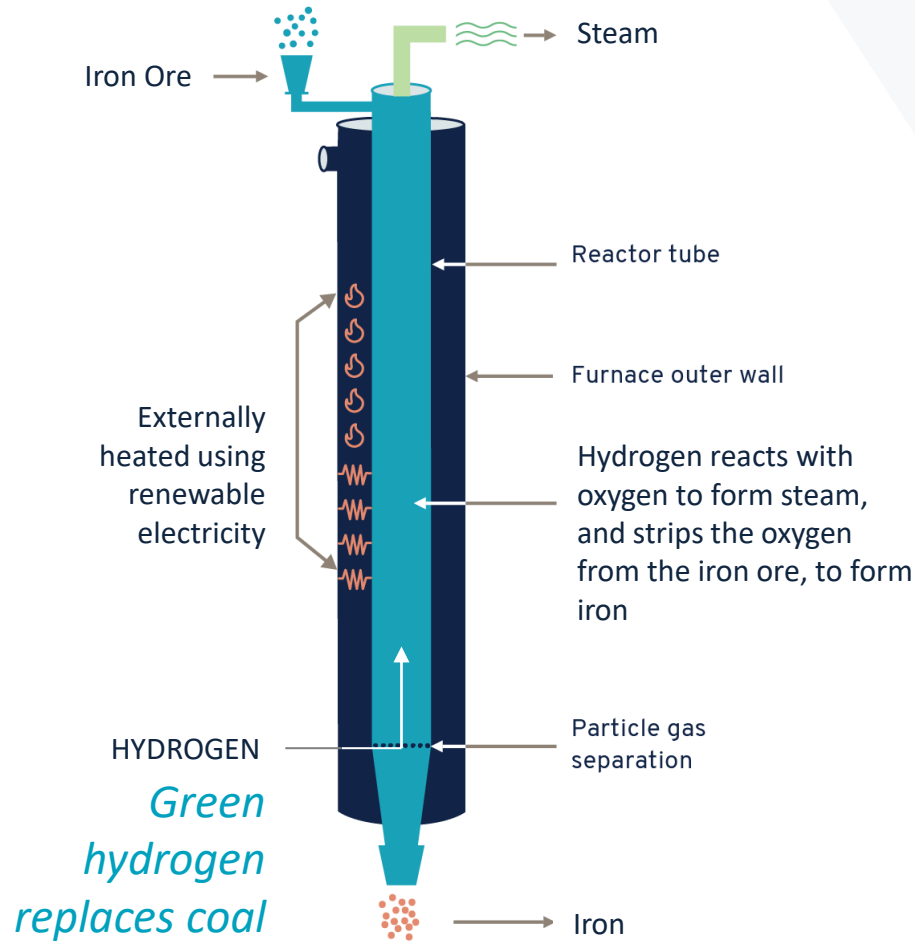


<sup>1</sup>Lithium chemical development proposed Joint Venture with Calix Limited is detailed in the ASX announcement "Pilbara Minerals targets "Midstream Lithium Chemicals Opportunity with Calix" released on 11 May 2021



# Sustainable Processing – STOP PRESS !

New Patent Filed for Zero Emissions Iron and Steel...



Iron and Steel-making is responsible for 7% of global CO<sub>2</sub> emissions – just behind cement and lime as the largest industrial emitter.

Calix's "ZESTY" (Zero Emissions Steel TechnologY) Process is using green hydrogen instead of coal, replaces the blast furnace, and is targeting:

- **REDUCED TEMPERATURE OF OPERATION**
- **NO PELLETISATION REQUIRED – CAN PROCESS FINES**
- **ABLE TO BE RENEWABLY POWERED, WITH INTERMITTENT OPERATION**
- **CAN APPROACH THEORETICAL MINIMUM HYDROGEN USE**

*Lab scale process testing underway at Imperial College – London. Next Steps – pilot scale testing at Calix's Bacchus Marsh facility with potential customer ores*



Because there's only one Earth...



...Mars is for quitters

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