

# HIGH PURITY MATERIALS FOR BETTER BATTERIES

**Investor Presentation**  
May 2023



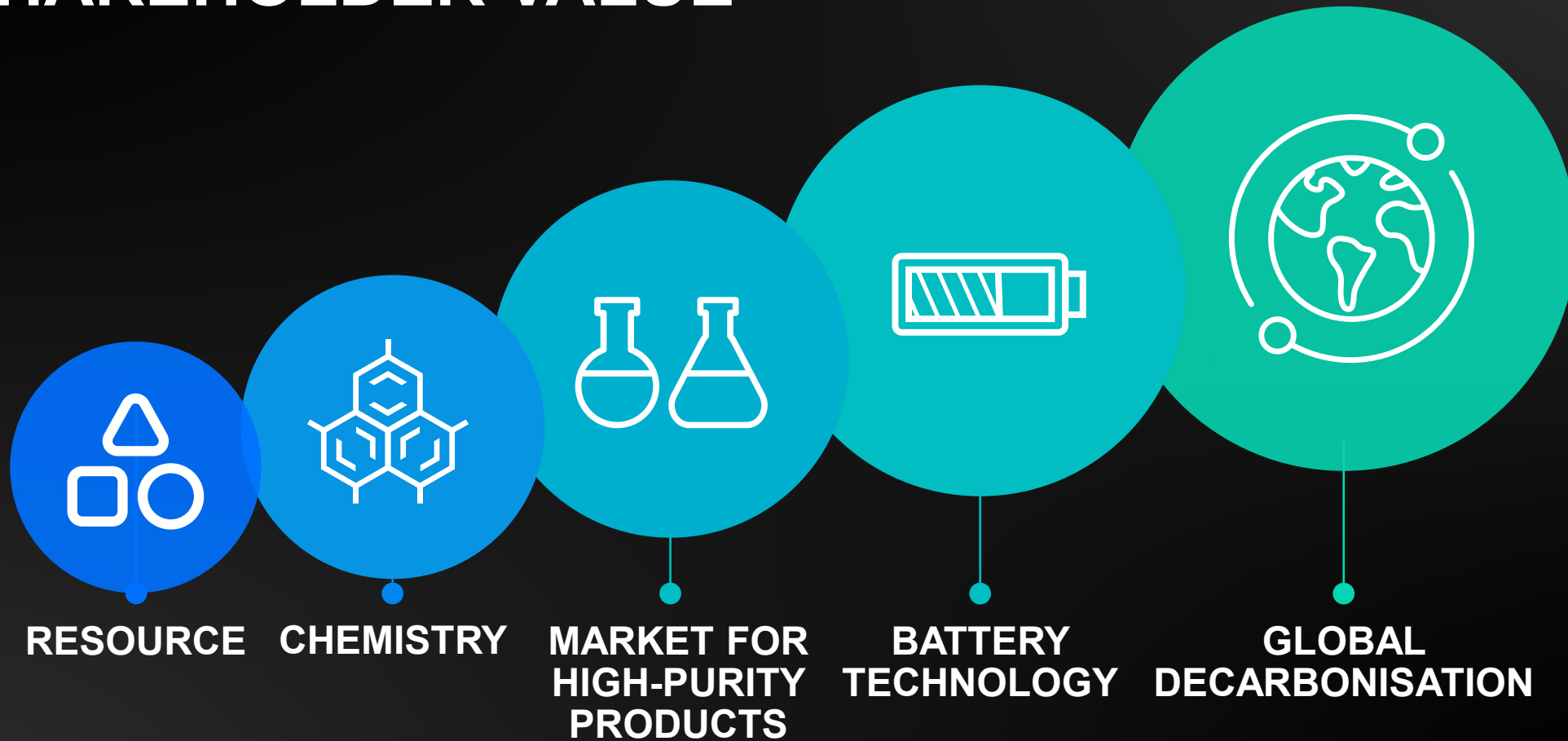
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# HIGH PURITY MATERIALS CREATING SHAREHOLDER VALUE



# SUSTAINABILITY IS AT THE HEART OF CHEMX

We live a culture of integrity, trust, innovation and responsibility to drive shareholder value.

Meeting market demand for products that will make better batteries for a decarbonising world.

**Environment   Social   Governance   Economic**



# THE RIGHT TEAM TO DRIVE SHAREHOLDER VALUE

Existing relationships with battery makers

Processing and Manufacturing

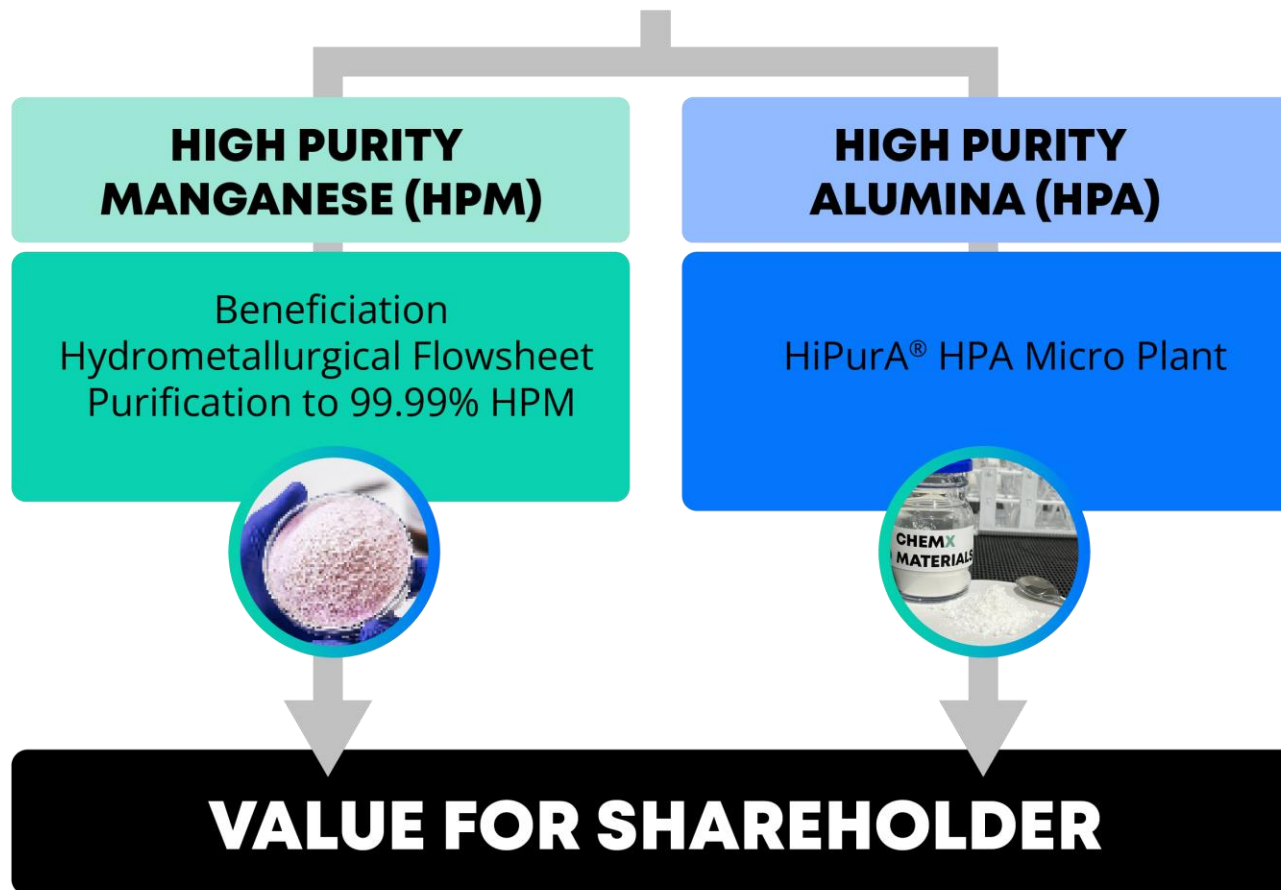
Capital market expertise

In-house HPA / HPM processes

Global markets

Clear alignment for long-term success



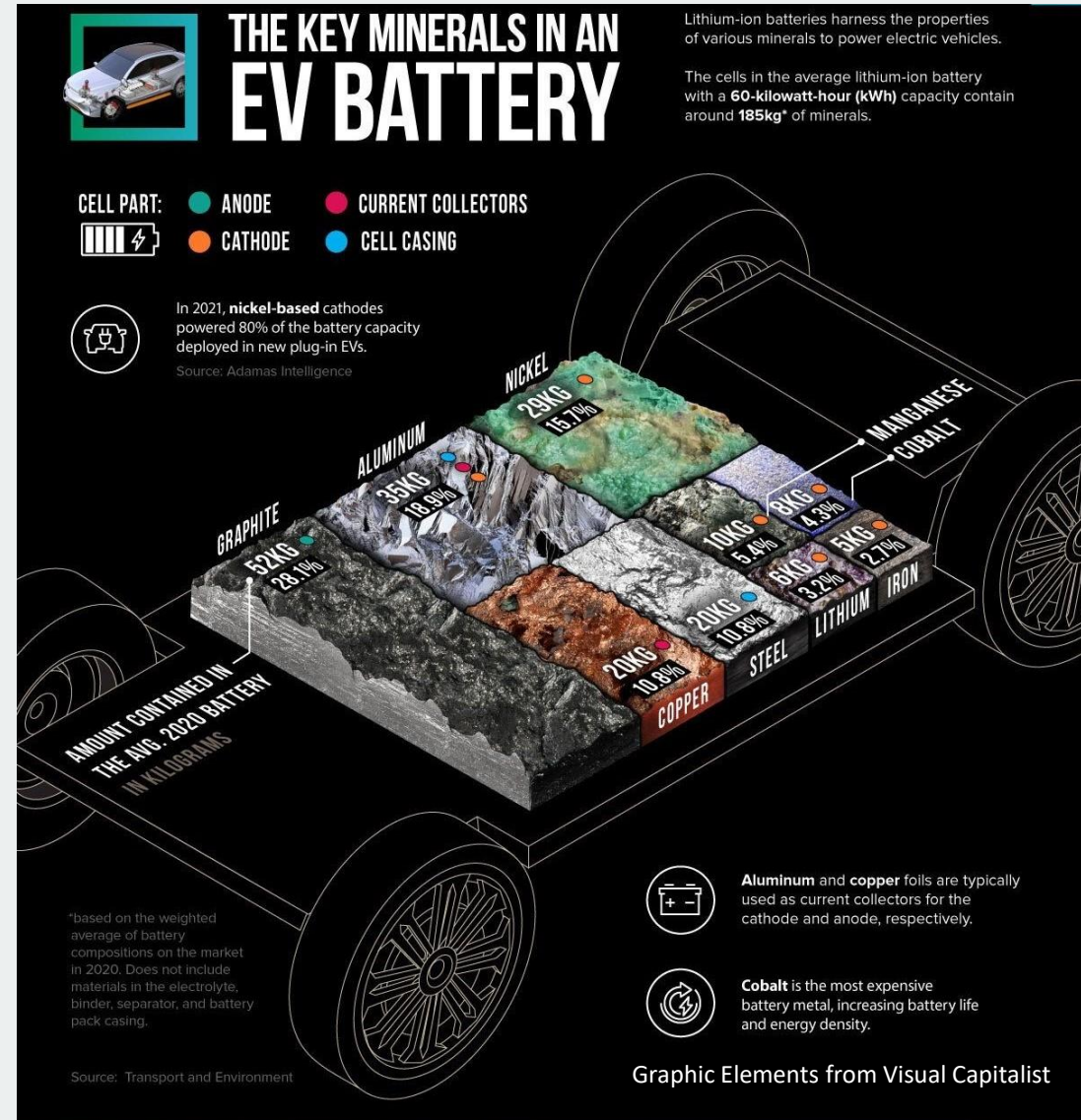


# OUR HIGH PURITY MANGANESE (HPM) STRATEGY



# ChemX HPM

- High Purity Manganese (HPM) is an essential lithium-ion battery cathode material
- HPM provides energy density, battery stability and reduced costs
- Essential material of all major battery chemistries



# MANGANESE DEMAND

Commercially available

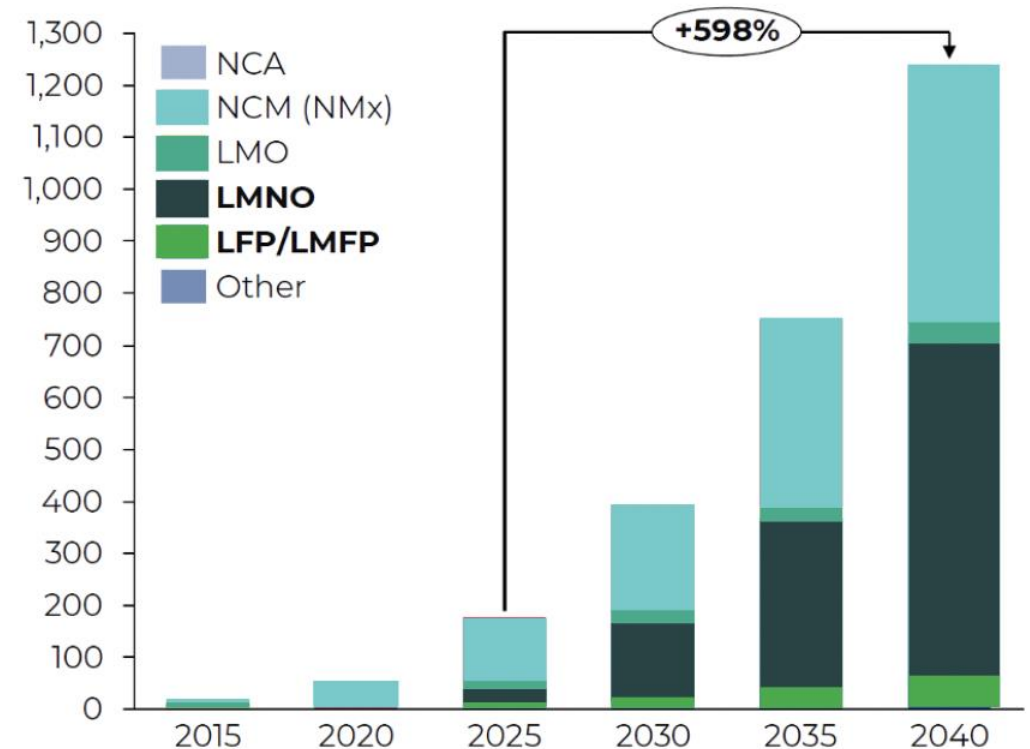
In development

**NMx:** reportedly 5% cheaper than NCM, cobalt-free

**LMNO:** in development since early 2000s but only just at commercialisation

**LMFP:** CATL due to start commercial production this year, several others in development

## Manganese demand supported by emerging chemistries



# CHEMX HPM STRATEGY



1

100% Owned manganese mineral deposit in South Australia



2

In-house processing and development expertise



3

Customer engagement and qualification



4

Offtake and development partners

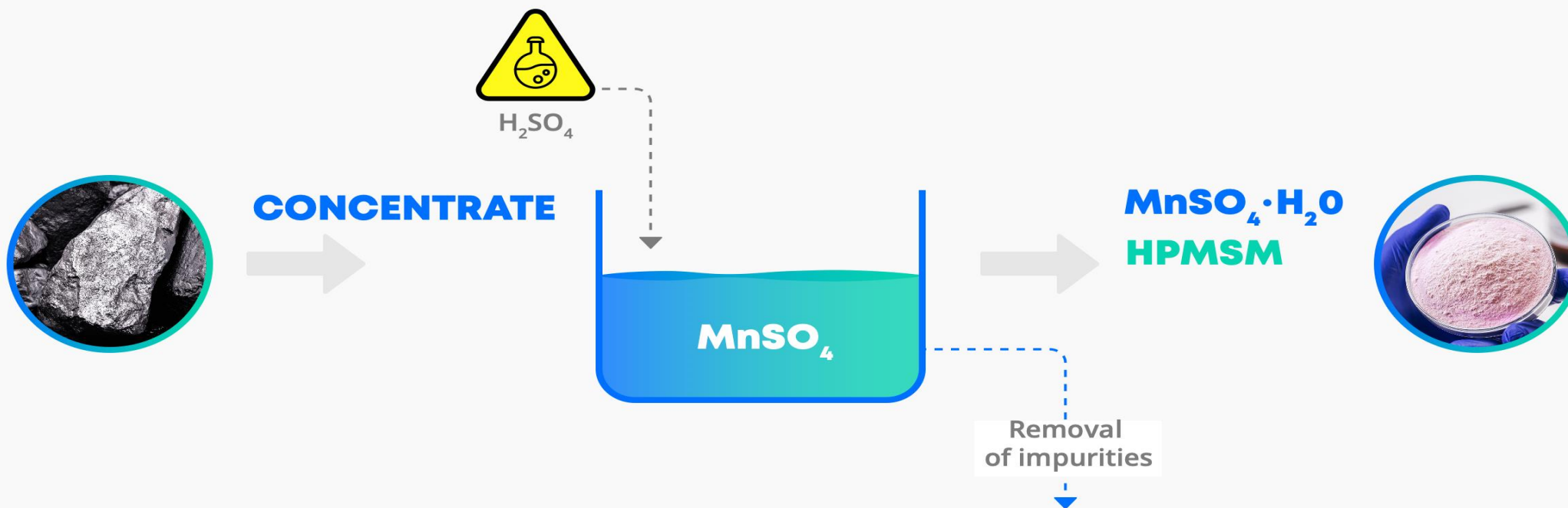
# EYRE PENINSULA MANGANESE

- Resource Definition Drilling Completed CYQ1 2023
- Assay Results Pending
- Resource Estimation CYQ2 2023
- 100% ChemX owned

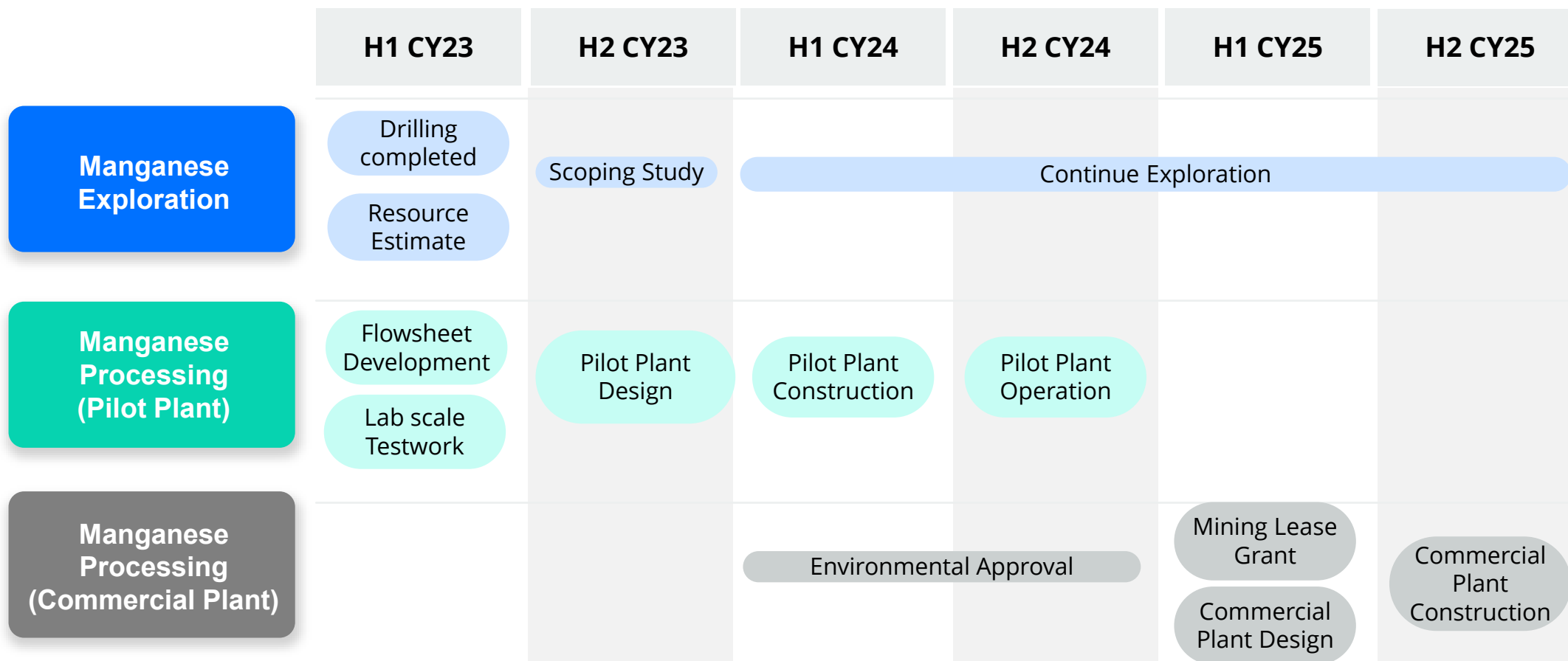


# OUR HPM PROCESS

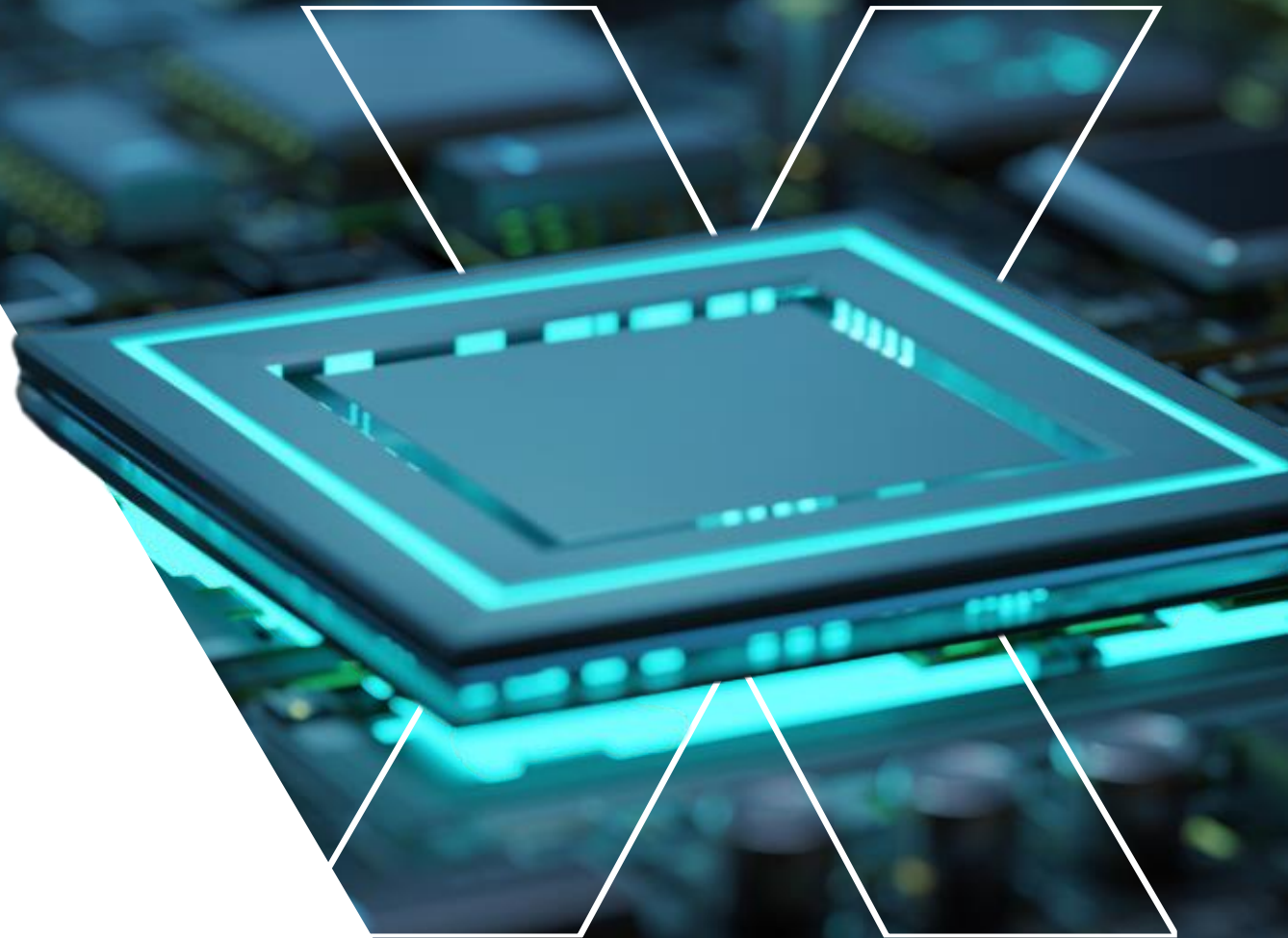
- Beneficiation
- Hydrometallurgical flowsheet
- Purification to 99.99% HPM



# OUR HPM STRATEGY



# Our HiPurA<sup>®</sup> HPA STRATEGY



# HPA MARKETS

- High Purity Alumina (HPA)
- Essential coating of separator in lithium ion battery
- Synthetic sapphire for LED, microchips and semi conductors
- Aluminous products for emerging cathode chemistries



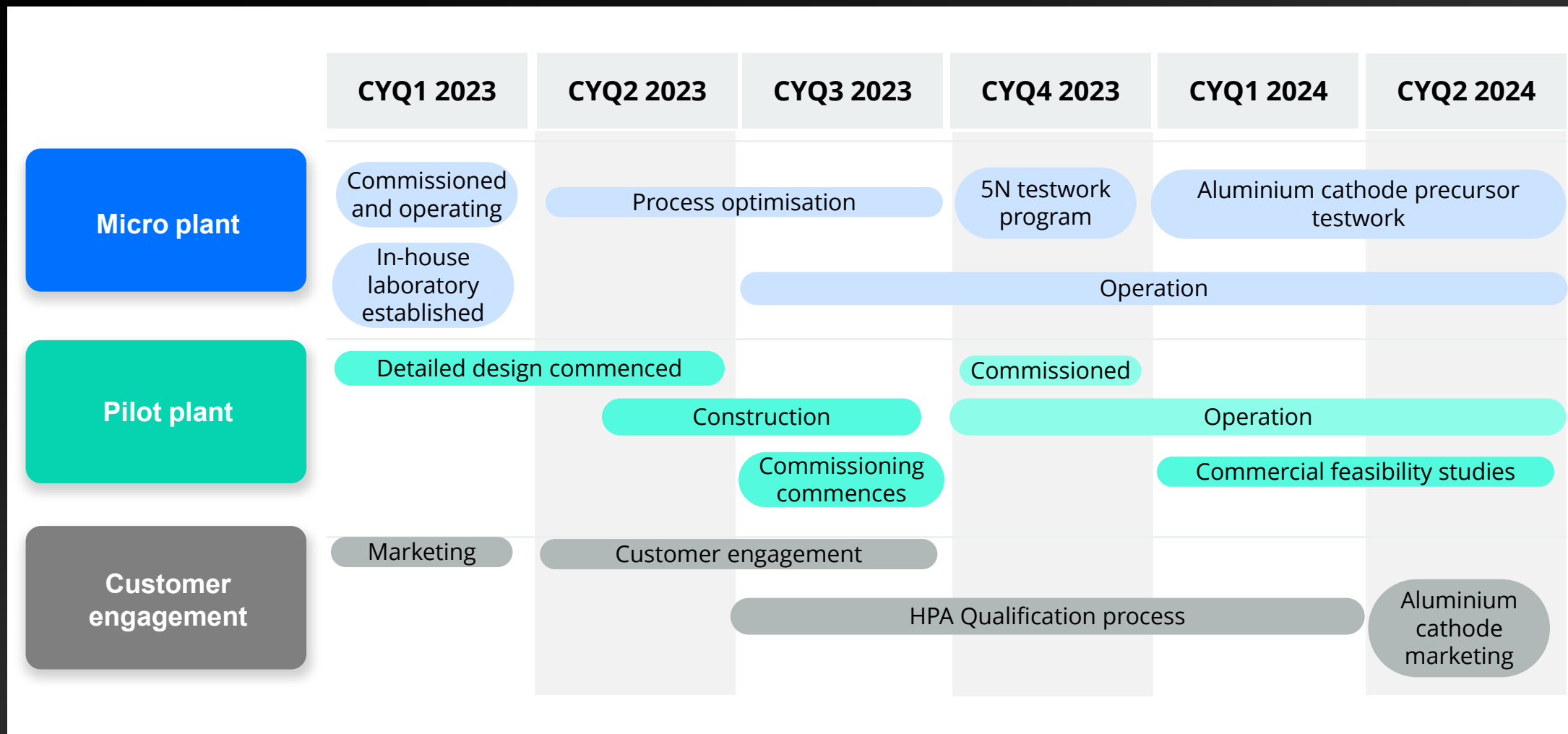
# OUR HPA PROCESS

## HiPurA® HPA

- Optimisation of HPA process via micro plant
- Pilot plant detailed design underway
- In-house laboratory at integrated HPA facility
- Pilot plant to operate in parallel with micro plant
- Designed to produce high purity feedstock for 5N HPA (99.999%)



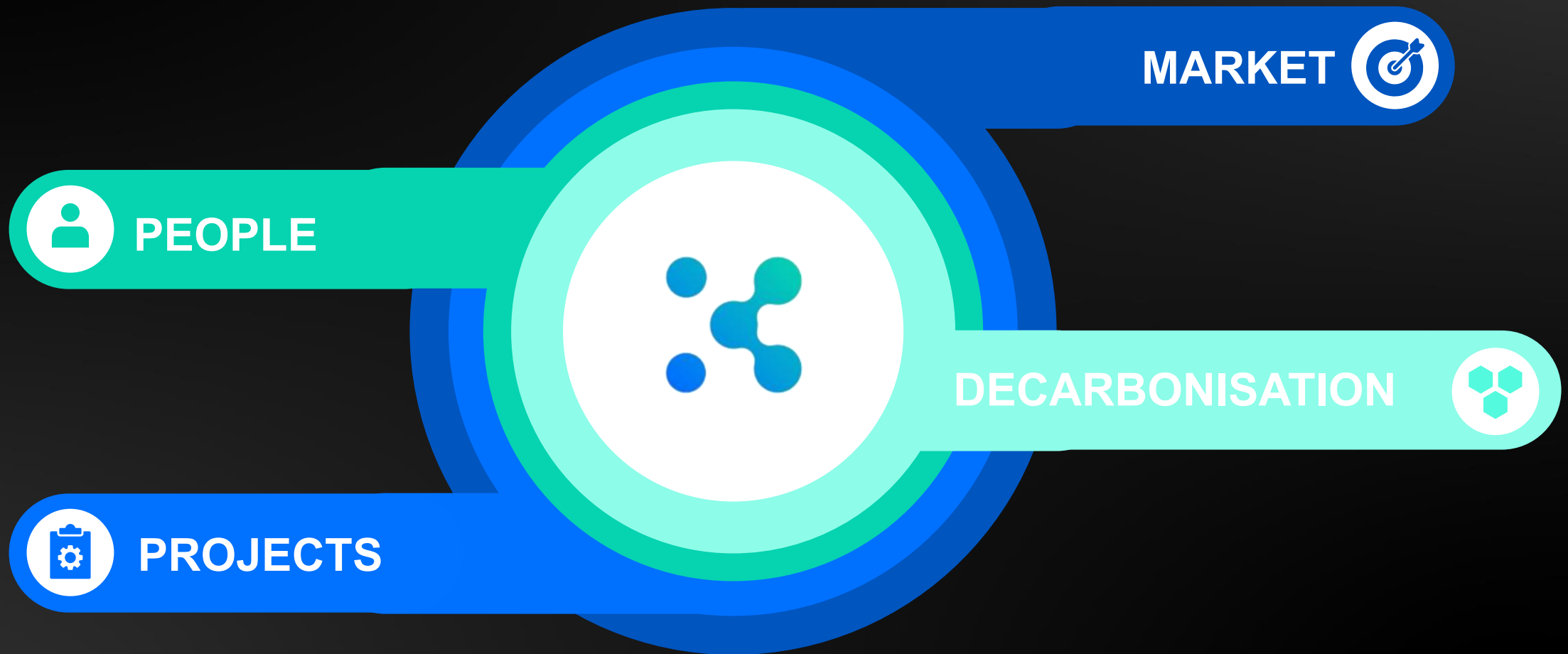
# OUR HPA STRATEGY



# ChemX Corporate



# OUR VALUE PROPOSITION



# CORPORATE OVERVIEW

## CAPITAL STRUCTURE

ASX code	<b>CMX</b>
Market capitalisation	<b>\$11.1M</b>
Listed shares	<b>92.8M</b>
Top 20 shareholders	<b>62.2M</b>
Listed options	<b>22.7M</b>
Share price at 1 May 2023	<b>\$0.12</b>
Cash at 31 March 2023	<b>\$2.1M</b>
Debt	<b>\$0</b>

## LEADERSHIP TEAM

Mark Tory	<b>Chief Executive Officer</b>
Stephen Strubel	<b>Executive Director &amp; Company Secretary</b>
David Leavy	<b>Marketing Strategy</b>
Peter Lee	<b>Chief Operating Officer</b>
Dr Nicholas Welham	<b>Research &amp; Scientific Advisor</b>

# Board



**Warrick  
Hazeldine**

Non-Executive Chair

20+ years' experience across capital markets and strategic communications. Co-founder of advisory firm Cannings Purple. Non-Executive Chair of Global Lithium Resources Ltd (ASX:GL 1); Director of Surfing WA.



**Alwyn Vorster**

Non-Executive  
Director

30+ years' experience in resources, most recently CEO of Hastings Technology Metals Ltd (Rare Earths) Previously with Aquila Resources Pty Ltd (Head – Iron Ore and Manganese) and Rio Tinto Iron Ore (Regional Manager China)



**Stephen Strubel**

Executive Director  
and Company  
Secretary

Company Founder with 20 years' experience in finance and corporate governance. Senior role with Patersons Securities and Director and Company Secretary for ASX listed companies.



**Tara Berrie**

Non-Executive  
Director

Tara Berrie is a seasoned professional with over 15 years of experience in the mining, chemical, and construction materials industries, specialising in the battery materials sector for the past 7 years. Demonstrated expertise in sales, strategy, marketing and procurement.

# Management



**Mark Tory**

CEO

Mark Tory is a Chartered Accountant with over 35 years of professional experience in the mining industry and accounting professions. He was CEO at Northern Minerals Limited for 2.5 years after 7.5 years as CFO. Prior to Northern Minerals, Mark worked at Crescent Gold Limited as Managing Director following on from his role there as CFO. Prior to Crescent, Mark worked eight years with Anglo American Exploration.



**Peter Lee**

Chief Operations Officer

20+ Years experience across mining, metals processing and chemical industries within Canada and Australia. Previous roles include Executive Process Engineering WSP Golder and technical management for tier-one companies in Refining and Electrochemical processes. Member AusIMM and a registered Professional Engineer (PEng) with EGBC Canada.



**David Leavy**

Marketing & Strategy

25+ years' experience in commodity markets. Past roles in finance, marketing and governance in advanced mining companies across varying commodities and jurisdictions. Executive focus over past five years on HPA marketing and production technologies.



**Dr Nicholas Welham**

Technical Consultant

30+ years experience in minerals processing. Adjunct Professor of Lithium Processing at the WA School of Mines and Principal of boutique hydrometallurgical consultancy Welham Consulting. He holds PhD in Minerals Engineering from the Royal School of Mines, Imperial College London. He developed the HiPurA® innovative process to produce HPA.

# Thank You

**Mark Tory**

Chief Executive Officer

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