



**PRODUCING HIGH
PURITY MATERIALS
FOR BETTER
BATTERIES**

**USA ROADSHOW
ASX:CMX**

JUNE 2023



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Why Invest In ChemX Materials (ASX:CMX)

- **Right team, right commodities, right place, right time – and the time is NOW**
- **100% owned battery materials technology HiPurA®**
- **100% owned manganese mining assets in infrastructure rich province in South Australia**
- **Experienced battery materials team with global networks > 150 years combined battery and resources experience**
- **Path to market is rapid and positions ChemX to capitalize on global demand for high purity products and opportunities like the USA's IRA**



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CHEMX CORPORATE



CAPITAL STRUCTURE

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

TOP SHAREHOLDERS

ASX code	CMX
RJ&A Investments Pty Ltd	20.7%
Archer Materials (ASX:AXE)	12.5%
Directors and Management	10.0%
Top 20 Shareholders	66%

The Right Team To Deliver Shareholder Value

- Existing Relationships With Battery Makers
- Processing And Manufacturing
- Capital Market Expertise
- In-house HPA Technology
- Global Markets
- Clear Alignment For Long-term Success





Warrick Hazeldine
Non-Executive Chair

20+ years' experience across capital markets and strategic communications with a focus on battery materials. Co-founder of advisory firm Cannings Purple. Non-Executive Director of Global Lithium Resources Ltd (ASX:GL1); Director of Surfing WA, Advisory Board Member of Curtin University.



Tara Berrie
Non-Executive Director

15+ years experience in the mining, chemical, and construction materials industries, specialising in the battery materials sector for the past 7 years. Tara's experience has spanned a variety of commercial roles including Rivian and Tesla, strategy development, M&A, corporate development and market analysis.



Alwyn Vorster
Non-Executive Director

30+ years' experience in resources, most recently CEO of ASX Listed Hastings Technology Metals Limited, formerly MD of ASX-listed BCI Minerals Ltd, formerly MD of Iron Ore Holdings Ltd and Non-Executive Director of Volt Resources. Previously with Aquila Resources Pty Ltd (Head – Iron Ore and Manganese) and Rio Tinto Iron Ore (Regional Manager – China).



Stephen Strubel
**Executive Director /
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.

8 Board & Management



Mark Tory
Chief Executive Officer

30+ Years experience in corporate and operational management, finance and accounting. Mark was previously the CEO of Northern Minerals Ltd with senior corporate and finance roles at several mining companies, including Anglo American Exploration. In addition to professional accounting qualifications, Mark has an MBA from UWA and is a member of AICD.



Peter Lee
Chief Operating Officer

20+ Years experience across mining, metals processing and chemical industries within Canada and Australia. Previous roles include technical management for tier-one companies in Refining and Electrochemical processes, most recently Executive Process Engineer WSPGolder. Peter is a registered P. Eng EGBC Canada MAusIMM and MAICD.



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.

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Integrated Business Model Of High Purity Materials Creating Shareholder Value

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Sustainability Is At The Heart Of ChemX

Building capacity in ESG reporting, systems and funding options.

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.



Economic



Environment



Social

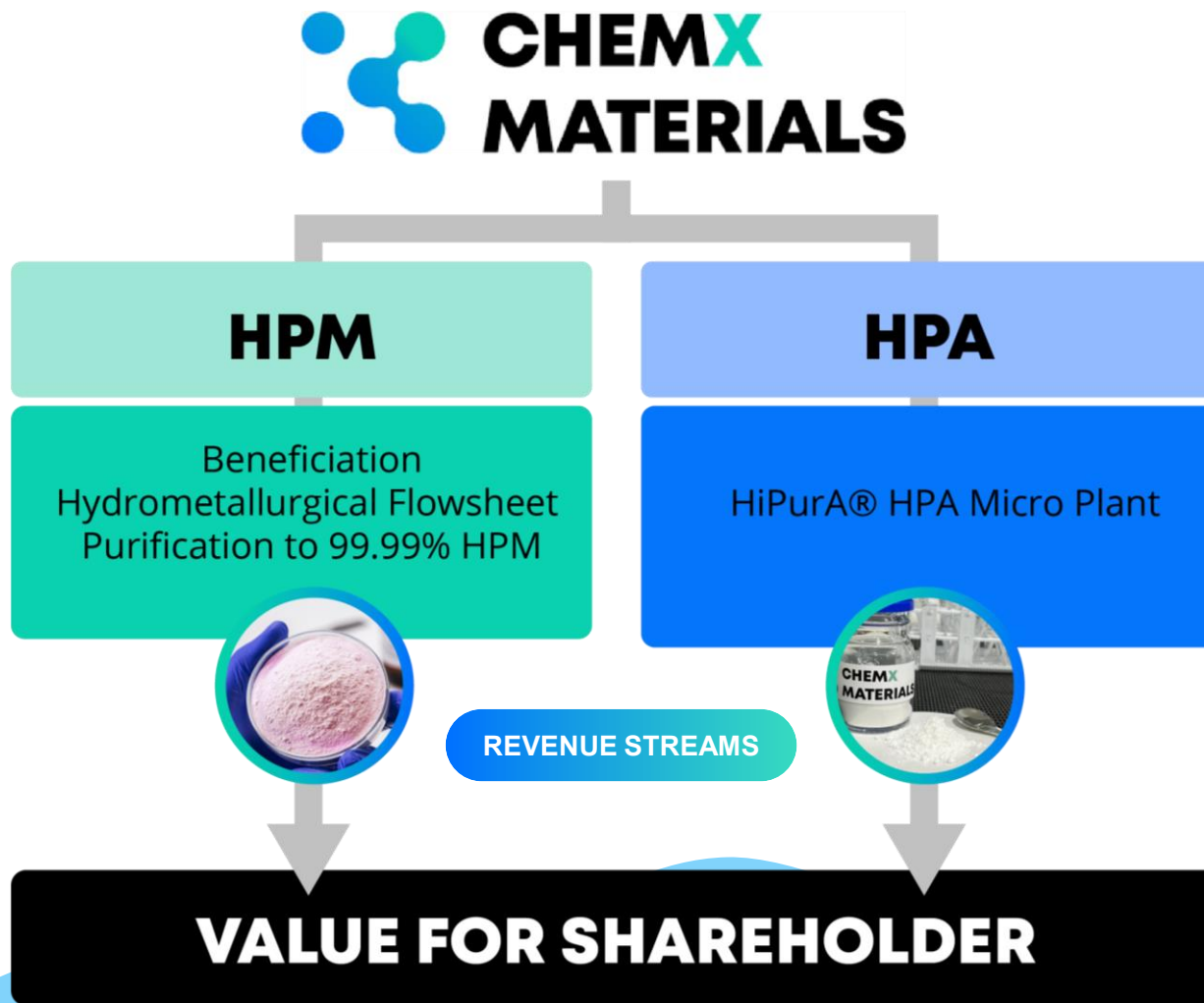


Governance



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**CHEM X PURPOSE – delivering high-purity
critical materials for the global battery
industries and synthetic sapphire market.**



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**DELIVERING A HIGH
PURITY MANGANESE
(HPM) VALUE
CREATION STRATEGY**



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Manganese Essential In Batteries

- HPM is an essential lithium-ion battery cathode material – recent escalation in demand and awareness
- HPM provides energy density, battery stability and reduced costs
- Essential material of all major battery chemistries



Graphic Elements from
Visual Capitalist

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COMMERCIALLY AVAILABLE

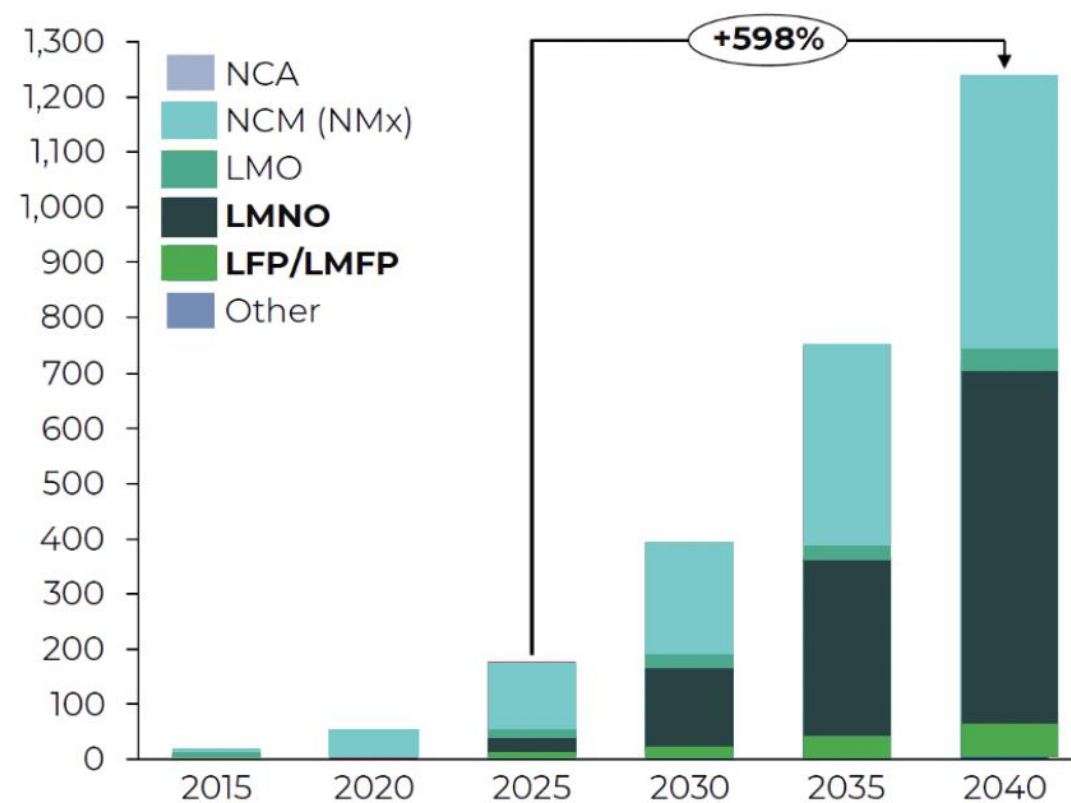
NMx: Reportedly 5% cheaper than NCM, cobalt free.

LNMO: In development since early 2000s but only just at commercialization.

IN DEVELOPMENT

LMFP: CATL started commercial production in 2022, several others in development.

Manganese demand supported by emerging chemists



Benchmark 2022

Delivering Superb Performance with “Mn”! Gotion High-Tech Astroinno Battery Features Range of 1000km without using NCM

May 24, 2023 • Add comment • 5 min read

Tesla “stormed” manganese-based cathode battery lithium battery manganese content may surge by more than 10 times

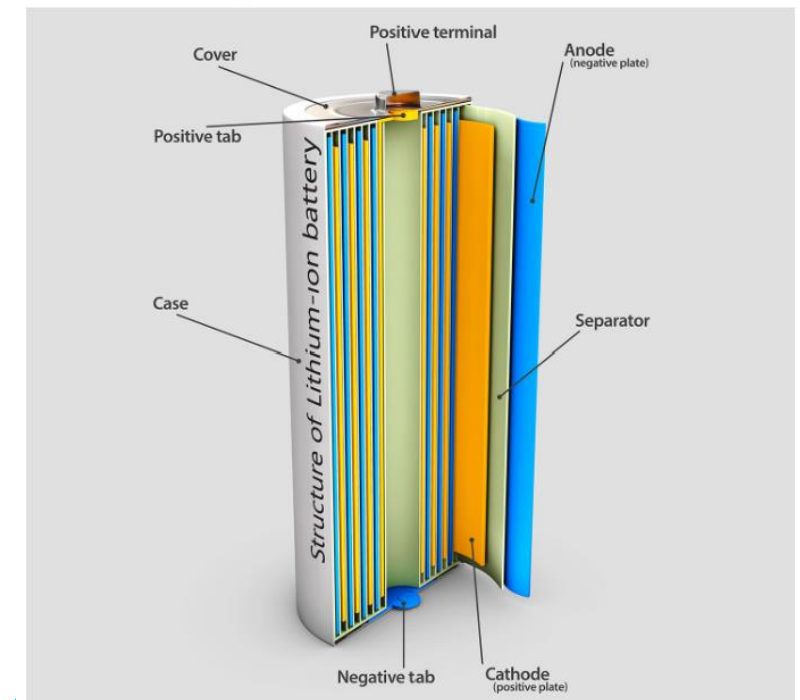
Mar 31, 2022 08:09 • CST • Source: Financial Union

BASF Expands Production Capacity in China for Industry-Leading Battery Cathode Active Multi-ton Scale Manufacturing for Manganese Products

June 16, 2022 • 3 min read

Umicore begins manufacturing manganese-rich EV battery materials

Posted May 3, 2023 by [N. Mughees](#) & filed under [Newswire](#), [The Tech](#).



[Umicore](#) plans to commercialize its manganese-rich HLM (high-lithium manganese) cathode active material (CAM) technology for EVs in 2026. This enhances Umicore's portfolio of NMC (nickel, manganese, cobalt) [battery materials for EVs](#) and provides a design-to-cost battery technology.

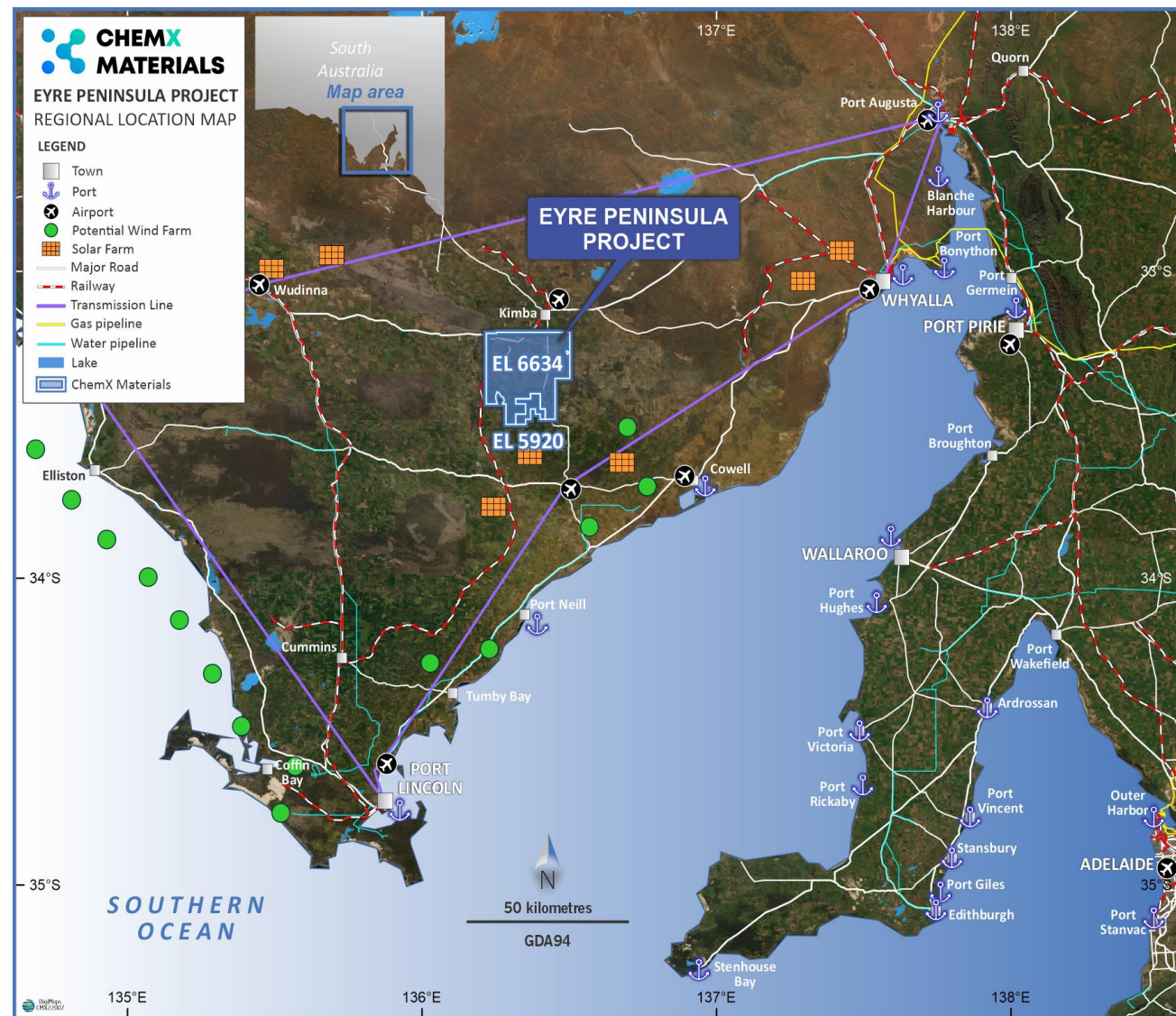
- **Potential to build HPA plant close to battery making facilities as ChemX plant is scalable to requirements of end user**
- **Manganese and high purity alumina (HPA) an opportunity for ChemX**
- **IRA calls for no manganese sources from China by 2025, but manganese ore / concentrate / refining projects > 3 to 5 years to develop - time to act is NOW**
- **China currently supply 95% of global manganese sulphate from 8% of global manganese mining supply**
- **Gain offtake for ex China production (including potential prepayment funding)**
- **Potential to work with partners to try and utilise future IRA funding**

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**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 Infrastructure Rich

- Close to existing infrastructure in South Australia including renewable energy with wind, solar and future hydrogen
- Only 180km along mainly sealed roads to Port of Whyalla
- Major airports for workforce expansion
- Freehold farmland

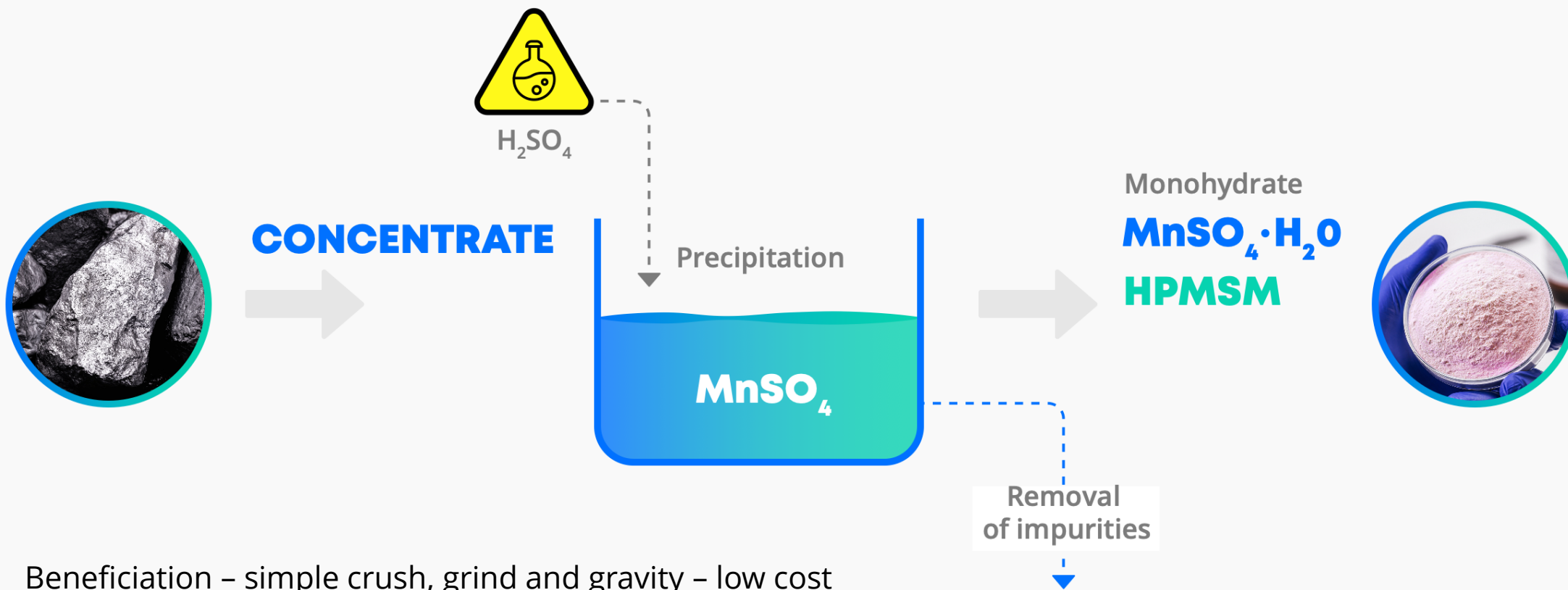


Manganese Resource Definition Advanced

- CYQ1 2023 Resource definition drilling completed
- Assay results completed
- CYQ2 2023 Resource to JORC standard estimation
- 100% ChemX owned



Eyre Peninsula Drilling Campaign 2023

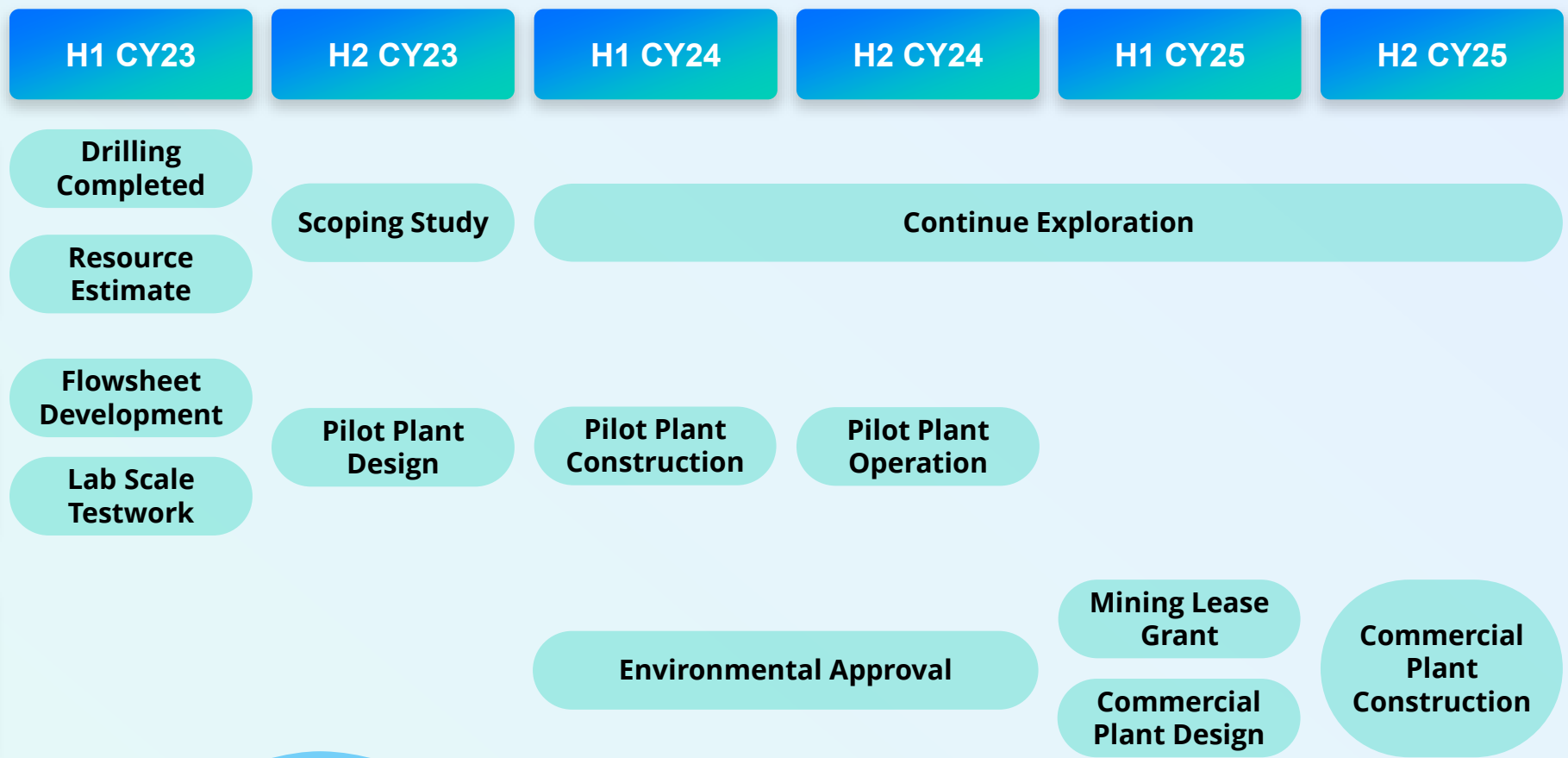


- Beneficiation – simple crush, grind and gravity – low cost
- Hydrometallurgical flowsheet proven in industry
- Purification to HPM required by end users

Delivering HPM Timeline – Newsflow & Milestones Building



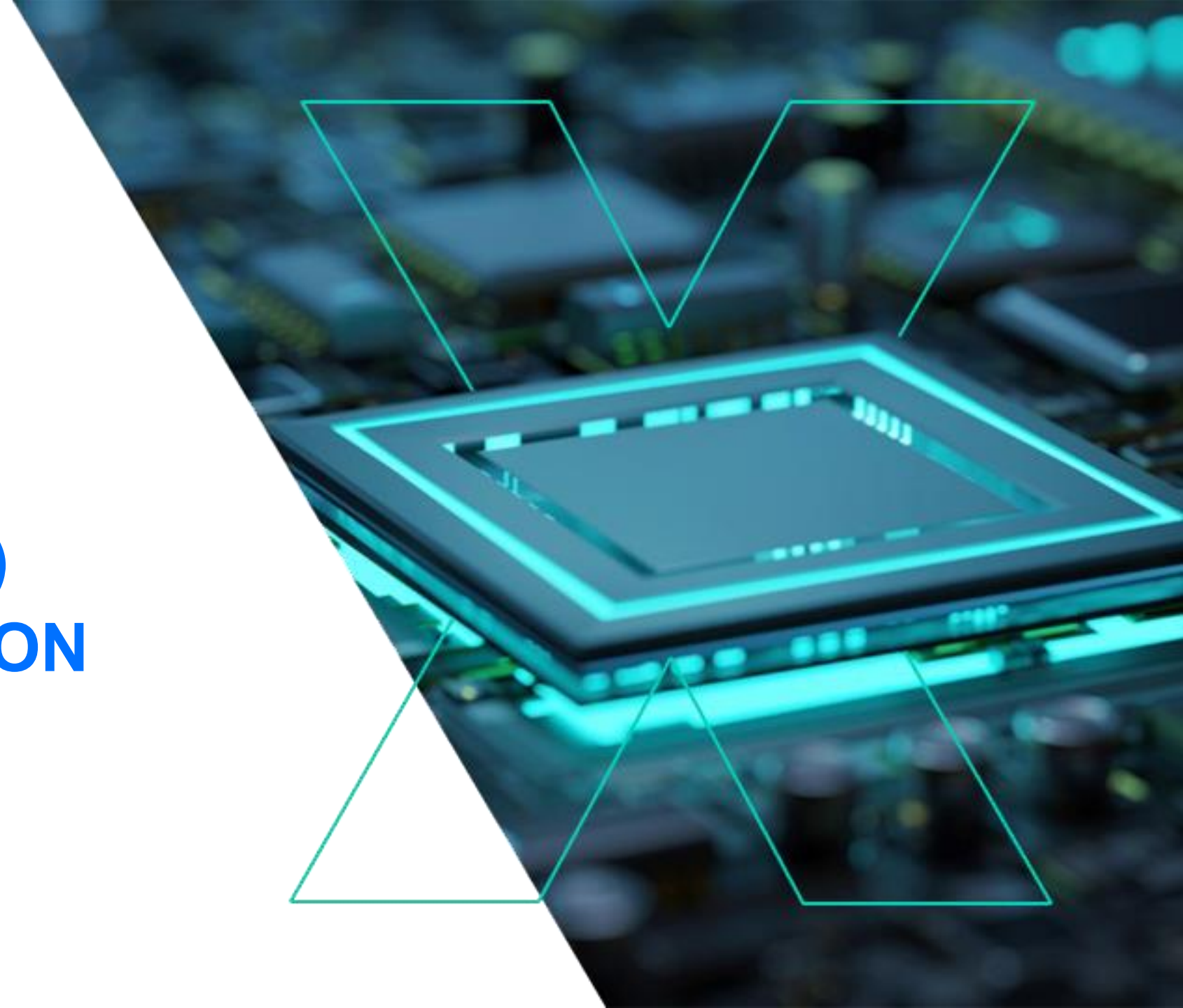
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**DELIVERING A
HIGH PURITY
ALUMINA (HPA)
VALUE CREATION
STRATEGY**



- Essential coating of separator in lithium-ion battery
- Synthetic sapphire for LED and semi conductors
- Aluminous products for emerging cathode chemistries



HiPurA[®] HPA

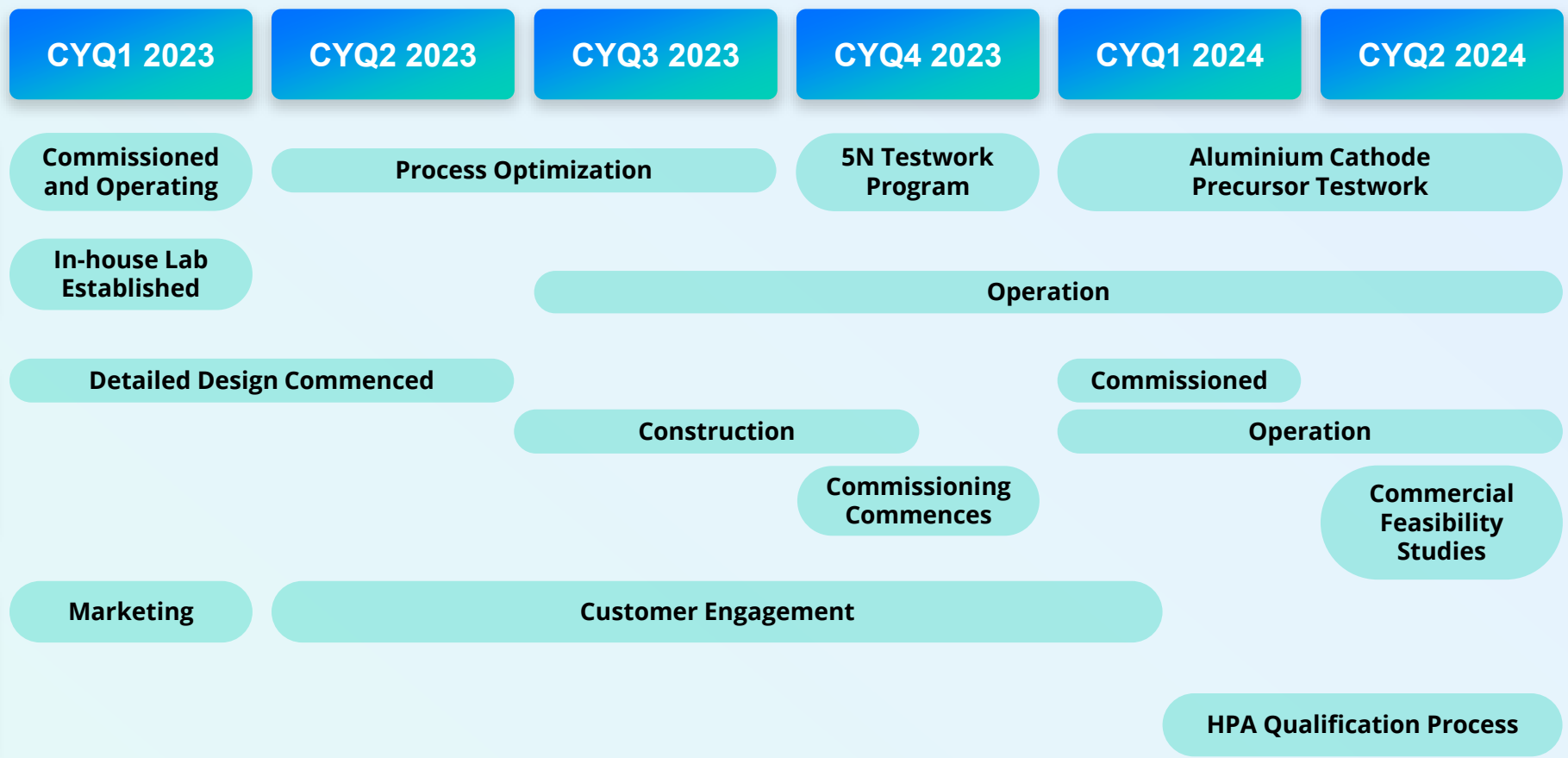
- Utilise a chemical feedstock which is easily sourced, repeatable and plant can be built to size at various locations globally
- Optimization of the HPA process is progressing via the Micro Plant
- June 2023 Pilot Plant has been approved to start construction
- In-house laboratory at integrated HPA facility
- Pilot Plant to operate in parallel with micro plant
- Designed to ultimately produce high purity feedstock for 5N HPA (99.999%)



Delivering HPA Strategy – Newsflow & Milestones Building



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THANK YOU

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