

28 February 2023

**BMO Global Metals, Mining and Critical Minerals Conference**

ASX:LKE | FRA:LK1 | OTC:LLKKF

# **CLEANER LITHIUM FOR AN ELECTRIC WORLD**

**LAKE**  
RESOURCES



# Disclaimer

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## Competent Person Statement

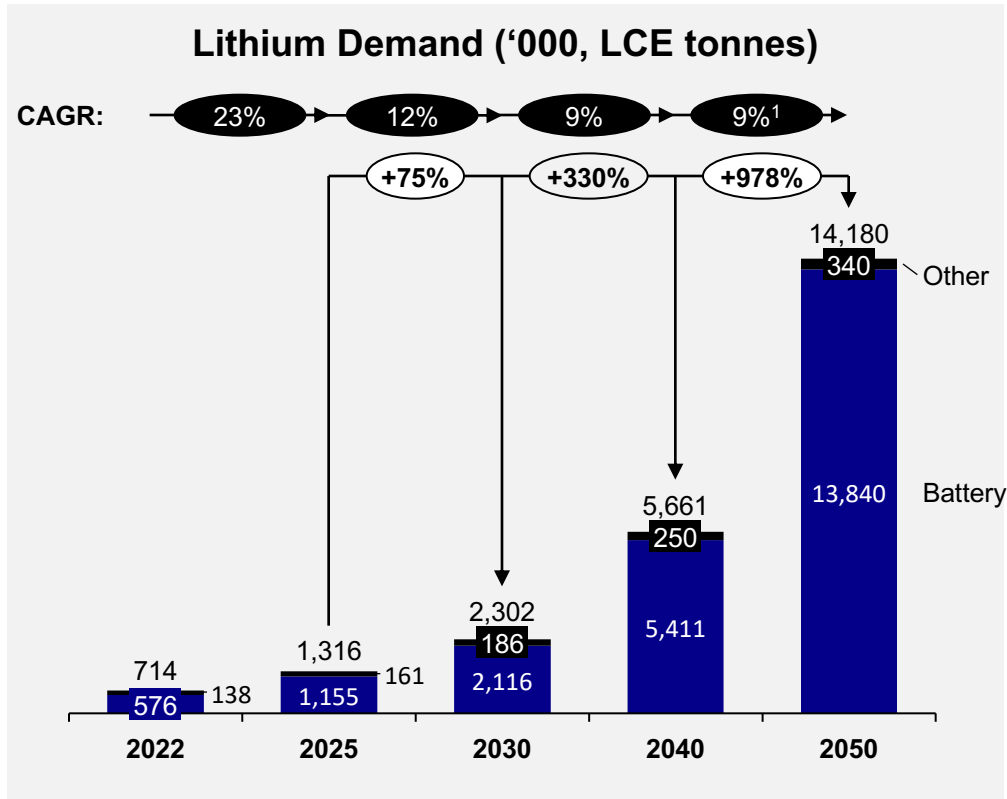
The information contained in this presentation relating to Exploration Results has been compiled by Mr Andrew Fulton. Mr Fulton is a Hydrogeologist and a Member of the Australian Institute of Geoscientists and the Association of Hydrogeologists. Mr Fulton has sufficient experience that is relevant to the style of mineralisation and type of deposit under consideration and to the activity being undertaken to qualify as a competent person as defined in the 2012 edition of the Australasian Code for Reporting of Exploration Results, Mineral Resources and Ore Reserves. Andrew Fulton is an employee of Groundwater Exploration Services Pty Ltd and an independent consultant to Lake Resources NL. Mr Fulton consents to the inclusion in this presentation of this information in the form and context in which it appears. The information in this presentation is an accurate representation of the available data to date from initial exploration at the Kachi project and initial exploration at the Cauchari project.

## Lake's View on Demand for High Purity Lithium

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# Supply Has Consistently Struggled to Keep Up with Demand



- Emerging Direct Lithium Extraction (DLE) and Direct Lithium Production (DLP) technologies expected to accelerate ability to scale supply
- Expect demand to continue to increase, and supply will have to support accordingly.
- Timing of Demand and Supply remains unpredictable
- High demand for “non-China” supply driven by Europe and the US

Note: 1. Data aggregated from multiple third-party sources. Assumes that supply and demand will be in steady-state and closely aligned by 2040.



# The Lake Resources Story: Extracting Lithium the Responsible Way



**Demand-Driven Attractive Project Economics**



**Large Expandable Resource Base**



**Clear Path to Production**



**Significant ESG Components**



**World Class Partners**



**Best-in-Class Management Team**

# Clean Lithium Developer with Lithium Projects in the Heart of the Lithium Triangle

Large lease holding 2,200km<sup>2</sup> (550,000 acres)

Current focus is developing Kachi Project:

- Definitive Feasibility Study for production of 50,000 tpa of lithium carbonate expected to be completed by mid-2023
- Moving from E&E to Development





# Flagship Kachi Project in Catamarca Province

- M&I resource doubled to 2.2 million tonnes Lithium Carbonate Equivalent with 3.1 million tonnes Inferred resource
  - Ongoing evaluation of further drilling
- Partnering with Lilac Solutions, an ion exchange technology provider, to produce sustainable, high purity lithium:
  - Demonstration plant successfully operated >1,000 hours
  - 40,000 liters of Lithium Chloride produced and shipped for conversion to Lithium Carbonate
- Execution plan, capital costs and timing to first lithium under review by new executive and expert technology teams



# Lilac Ion Exchange

*Cleaner lithium extraction*

Brine in

Faster, scalable, higher recovery, sustainable

Proven in pilot plant – extensive test work

LiCl out



**3 HOURS**

to produce concentrate

ION  
EXCHANGE  
MODULES

30-60,000 PPM  
LITHIUM CHLORIDE

BRINE RETURNED  
WITHOUT CHANGES EXCEPT  
LITHIUM REMOVAL

LITHIUM CARBONATE PLANT  
AND/OR LITHIUM HYDROXIDE PLANT

**BRINE RESOURCE**

Conceptual design of plant well advanced



# Better for the Environment. Better for Neighboring Communities



Lithium Ion Exchange requires less land – one ion exchange module replaces 30km<sup>2</sup> of evaporation ponds

No evaporation ponds therefore **significantly** less water usage

No brine depletion – brine is reinjected back into the reservoir, ensuring no changes to the water table in the region.

Local communities will benefit from access to better infrastructure, employment opportunities and economic development

# World Class Partners

## Technology



- Commercialization and scaling of Lilac ion exchange technology
- Lilac to earn in to Kachi Project up to max 25% stake via performance-based milestones

## Project Finance



- Expression of Interest to support ~70% of the total finance required
- Subject to standard project finance terms, including DFS, ESIA and offtake
- 8.5 year debt funding post construction
- Significantly lower cost of capital than traditional debt financing and reflects ESG benefits of project

## Offtake



- Strategic investments and conditional framework agreements in place with both parties
- Up to 25,000 tpa anx 10% equity investment in Lake Resources

## Target Milestones for 2023

**Saltworks Lithium Conversion Report and Purity results (March/April)**

**Kachi Interim Project update (Q2)**

**Completion of Definitive Feasibility Study (mid-year)**

**Completion and Submission of Environmental Impact Assessment (Q3/Q4)**



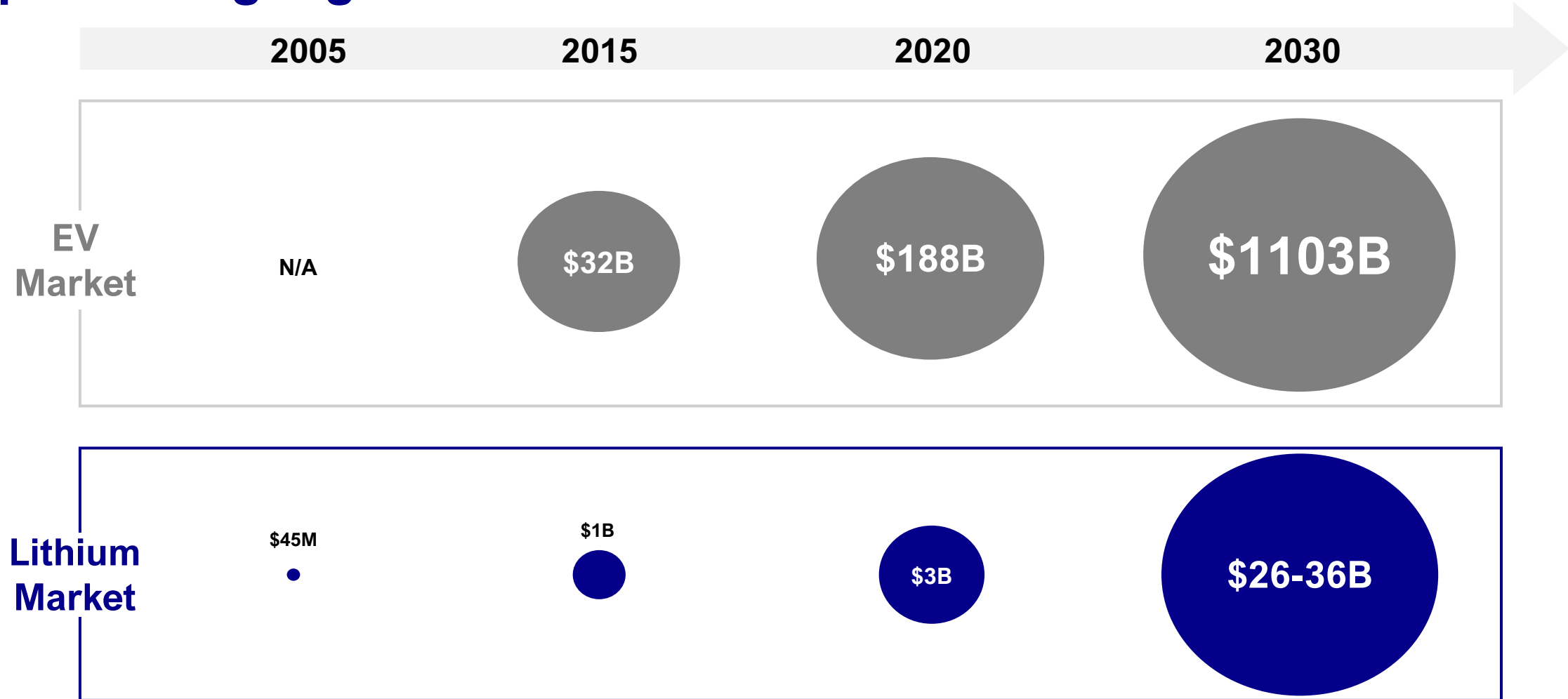
**Thank you.**

# Appendix

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# As Demand for Electric Vehicles Rises, the Lithium Market is Experiencing Significant Growth



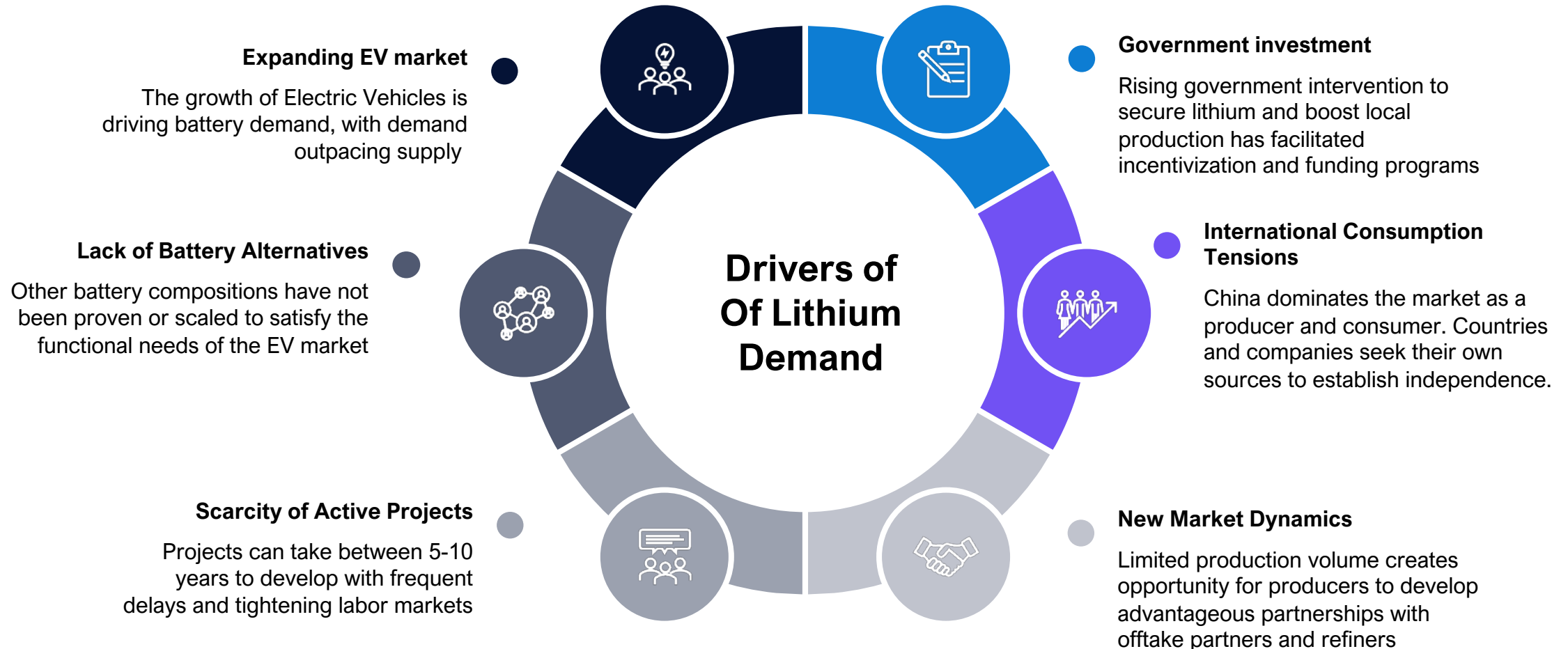
Source(s): Argus Media, Deutsche Bank, DOE, Precedence Research, Statista, Volkswagen AG

Note 1. EV Market size calculated based on projected global units sold and average price of \$60k per vehicle

Note 2. Lithium market value calculated using projected global market volume in tonnes with high and low bands of forecasted carbonate and hydroxide price



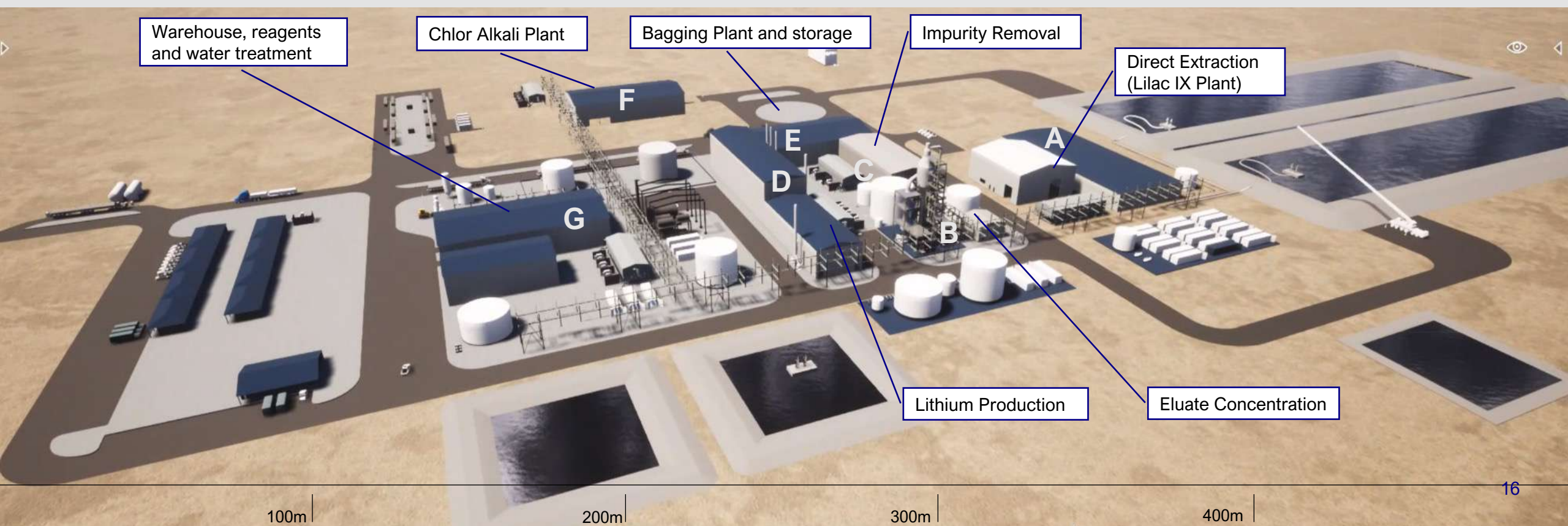
# Global Demand Drivers Highlight Lithium will Continue to Bring Value to Consumers and Governments



# Kachi Project

*Plant design*

One building with Ion Exchange Modules replaces ~ **30km<sup>2</sup>** of evaporation ponds



# Corporate Snapshot

## Cash

A\$133m

31 December 2022

## Shares on issue

1.39b

## Unlisted Options

30,597,401

(various prices)

## Debt

Zero



# Commercialization and Scaling of the Lilac technology

*Lake + Lilac: new independent clean lithium producer with scale*

## Lilac to earn in to Kachi Project up to max 25% stake via performance based milestone

- Initial 10% - Lilac funds completion of testing of its technology for the Kachi Project
- Further 10% - Lilac funds demonstration plant at Kachi and satisfies all agreed testing criteria
- Final 5% - Kachi lithium product achieves highest agreed qualification standards with certain offtakers

## US\$150m Series B funding round investors



**Sumitomo**

**T.RowePrice®**



# Board of Directors



**Stuart Crow**, Non-Executive Chairman

- Global experience in financial services, corporate finance, investor relations, international markets, salary packaging, and stock broking
- Passionate about assisting emerging listed companies to attract investors / capital



**Ana Gomez Chapman**, Non-Executive Director

- 25+ years of investment management, capital markets, and business leadership experience as financial services executive and board director internationally
- Managing Director at Hamilton Lane



**David Dickson**, Managing Director / CEO

- Industry leader with 30+ years of experience in process technology, engineering, construction, and EPC cost management in the energy sector
- Serves as a senior advisor at Quantum Energy Partners
- Previous CEO of McDermott International



**Howard Atkins**, Non-Executive Director

- 20+ years serving as CFO for Wells Fargo, New York Life Insurance Company, and Midlantic Bank Corporation
- Served on HR, Audit, Finance and technology committees on Occidental Petroleum and Ingram Micro's boards



**Cheemin Bo-Linn**, Non-Executive Director

- Accomplished CEO, former Fortune 100 operations executive and board director with 25+ years of governance experience at private organizations and public companies internationally
- Previously CEO of Peritus Partners, a valuation accelerator



**Robert Trzebski**, Non-Executive Director

- International mining executive with operational, commercial, and technical experience in global mining markets including Argentina
- Currently Chief Operating Officer of Austmine Ltd and Fellow of Australian Institute of Mining and Metallurgy

# Executive Leadership



**Peter Neilsen**  
Chief Financial Officer



**John Freeman**  
Chief Legal Officer & General  
Counsel



**Gentry Brann**  
Chief People and Administration  
Officer



**Amalia Saenz**  
Vice President, Argentina Corporate  
Affairs



**Karen Greene**  
SVP, Investor Relations and Communications



**Scott Munro**  
SVP, Technology, Strategy and Risk



**Sean Miller**  
Corporate Development Officer