

29 August 2023

## Corporate Presentation

Lithium Australia Ltd (ASX:LIT) ("**Lithium Australia**" or the "**Company**") is pleased to provide an updated Corporate Presentation. No new information is disclosed in this presentation.

A copy of the Corporate Presentation is attached and can be viewed on the Company's website.

Authorised for release by the Board.

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## **Forward-looking statements**

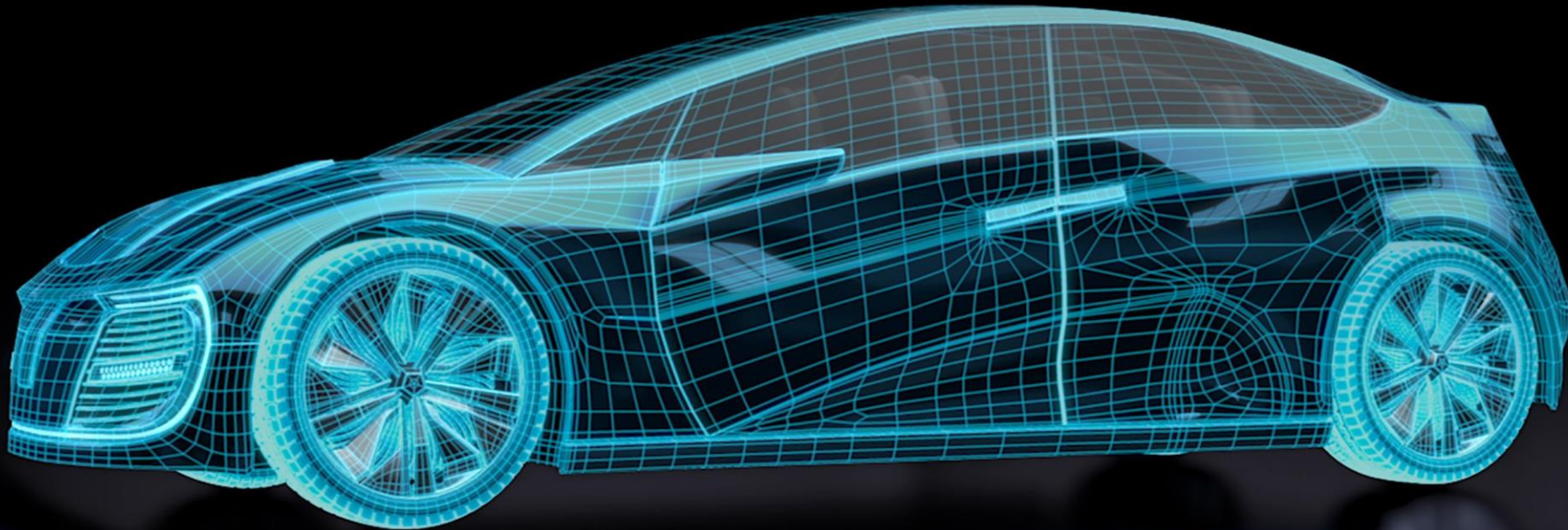
This announcement contains forward-looking statements. Forward-looking statements are subject to a variety of risks and uncertainties that it is beyond the Company's ability to control or predict and which could cause actual events or results to differ materially from those anticipated in such forward-looking statements.

## **About Lithium Australia**

Lithium Australia is aiming to lead and enable the global transition to sustainable lithium production. The Company operates Australia's market leading lithium-ion battery recycler, develops leading-edge processing technology to produce lithium ferro phosphate (LFP), and develops patented lithium extraction technology. Lithium Australia's revenue-generating recycling business and technologies are well-placed to capitalise on growing global lithium-ion battery demand and provides diversification benefits to global supply chains.



# Lithium<sup>+</sup> Australia



**Energising a better world**

Investor Presentation | August 2023

ASX: LIT



# Lithium Australia at a glance

To lead and enable the global transition to sustainable electrification, delivering a better world



**Providing critical materials** for the circular battery industry through lithium chemicals, battery materials and battery recycling



**Market leading Australian battery recycler** with line of sight to self-sufficiency



**Diversification of supply chain** to help reduce reliance on China, who produces nearly all the world's lithium ferro phosphate (LFP) materials



Secured **partnerships with industry leaders** to expand market opportunities



Ideally placed to **capitalise on growing lithium-ion batteries (LIBs) demand**, with LIB demand expected to grow 571% between 2022 and 2030<sup>1</sup>



**Well-funded** with \$15m<sup>2</sup> in cash and liquid investments

Notes: 1. McKinsey & Company, Battery 2030: Resilient, sustainable, and circular (2023). 2. Cash and liquid investments as at 30 June 2023.

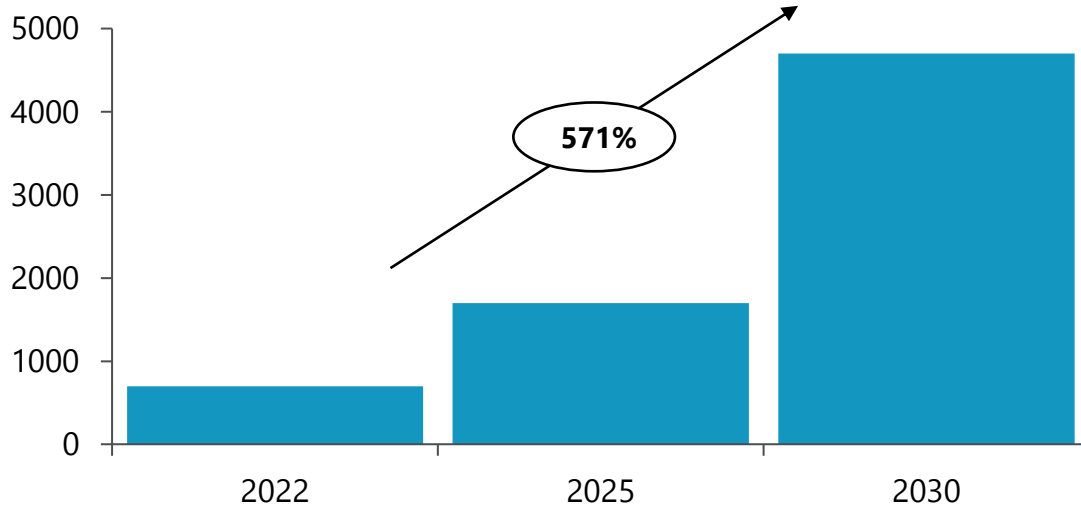


# Growing global demand

Rapidly increasing demand for batteries expected to drive strong growth in lithium production

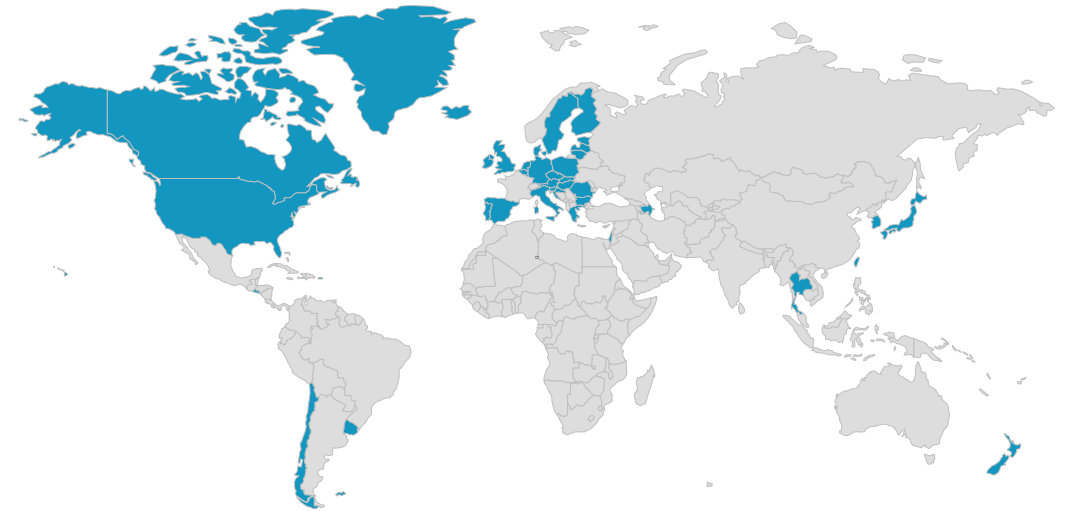
## Lithium-ion battery demand growth<sup>1</sup>

Global Li-ion battery cell demand, GWh



**Strong demand growth for battery cells supports need for LIT's proprietary chemicals, materials, and recycling technologies**

## Global shift towards EVs



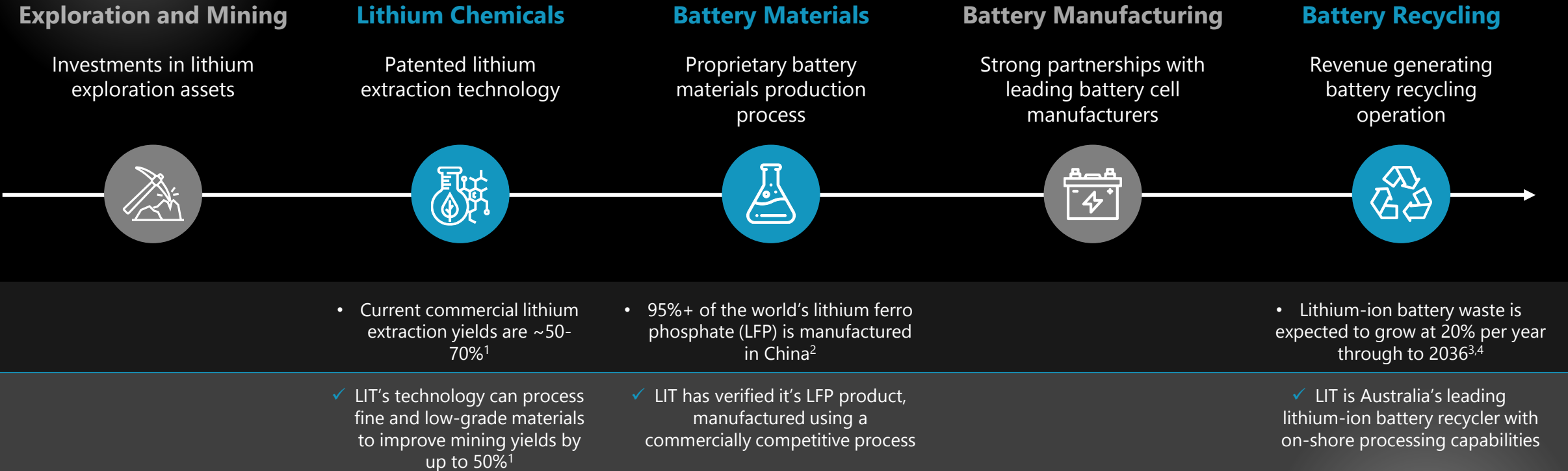
**44 countries have committed to phasing out petrol car sales between 2035 – 2040<sup>2</sup>**

Notes: 1. McKinsey & Company, Battery 2030: Resilient, sustainable, and circular (2023). 2. Coltura, Gasoline Vehicle Phaseout Advances Around The World (2023).



# Where we play

LIT covers every touchpoint of the lithium value chain through its operations or strategic agreements



Notes: 1. Assumes existing mine concentrator is 60%: 60% to 90% Li recovery increase assumes lithium extraction technology recovers 75% of lithium units going to tails. 2. IEA, Global EV Outlook (2023). 3. Randell Environmental Consulting, Waste lithium-ion battery projections (2016) 4. CSIRO, Lithium-ion battery recycling (2023).





# Lithium Chemicals



# ~50% higher lithium extraction efficiency<sup>1</sup>

Patented extraction technology offers competitive advantage for miners

## ✓ Driving greater profitability for miners

Unique method of processing un-used fine and low-grade spodumene, yielding higher levels of lithium output

## ✓ Improves sustainability

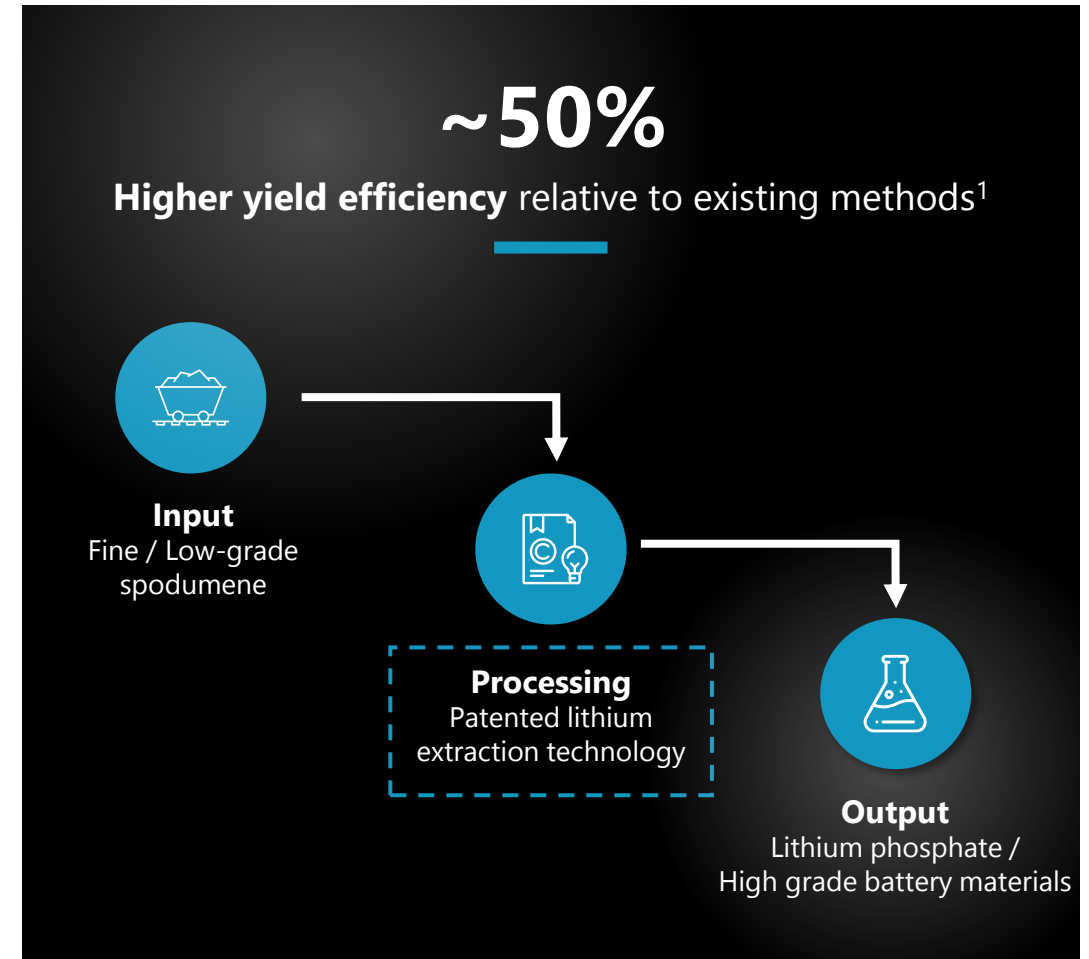
Materially less wastage as fine and low-grade spodumene typically ends up as waste streams

## ✓ Increases mine asset value

Miners can extract significantly more lithium from the same spodumene resources, increasing mine value

## ✓ Moves down value chain

Allows miners to capture more of the value chain by processing spodumene on site



Notes: 1. Assumes existing mine concentrator is 60%. 60% to 90% Li recovery increase assumes lithium extraction technology recovers 75% of lithium units going to tails.



# Partnering with market leader Mineral Resources Ltd. (MinRes)

Joint development agreement with \$13bn<sup>1</sup> Australian miner validates lithium extraction technology

## STRATEGIC PARTNERSHIP<sup>2</sup>

- MinRes will fund the pilot plant operation and engineering study in conjunction with LIT, paying up to \$4.5m
- LIT to provide its extraction technology
- Upon completion, a new 50:50 joint venture (JV) will be formed, which will licence the technology to a larger demonstration plant expected to be funded by MinRes
- The partnership aims to increase lithium extraction at a commercial scale
- JV aims to licence the technology at a headline gross product royalty rate of 8%<sup>3</sup>



## HIGHLIGHTS

- ✓ **Ideal partnership**  
Leveraging MinRes' extensive operations and robust client base as an ASX50 company
- ✓ **Validates the technology**  
Further validates LIT's innovative lithium extraction technology
- ✓ **Large addressable market**  
Opportunity to target both existing and new lithium mines globally
- ✓ **Significant revenue opportunity**  
Pathway to achieve significant revenues through licencing fees

Notes: 1. Market capitalisation as at 25 August 2023. 2. ASX announcement released 7 August 2023. 3. The Company cautions that although it considers this to be a reasonable expectation, there is no guarantee that this rate will be achieved.



# Roadmap to becoming market leader

Long term collaboration with MinRes expected to accelerate commercialisation strategy

Short-term (1 year)	Medium-term (2-3 years)	Long-term (3+ years)
<ul style="list-style-type: none"> <li>MinRes to fund the pilot plant operation and engineering study</li> <li>ANSTO<sup>1</sup> will continue to support development of processing technology</li> <li>MinRes to supply the required raw materials to support piloting</li> </ul>	<ul style="list-style-type: none"> <li>Form 50:50 JV with MinRes<sup>2</sup></li> <li>License extraction technology to MinRes for the development of a larger demonstration plant</li> </ul>	<ul style="list-style-type: none"> <li>Commence commercialisation of extraction technology<sup>2</sup></li> <li>License extraction technology to MinRes' other operations</li> <li>License extraction technology to third-party participants</li> </ul>

Notes: 1. Australian Nuclear Science and Technology Organisation. 2. Subject to successful completion of the pilot plant and engineering study.





# Battery Materials



# Validated and sustainable battery materials production

LIT is one of few companies outside China to successfully produce lithium ferro phosphate (LFP)

- ✓ **Proven LFP product**

Independently assessed and proven against commercially available products by leading battery researcher<sup>1</sup>

- ✓ **Proprietary cost-competitive process**

Proprietary production process manufacturing LFP at scale on a competitive cost base

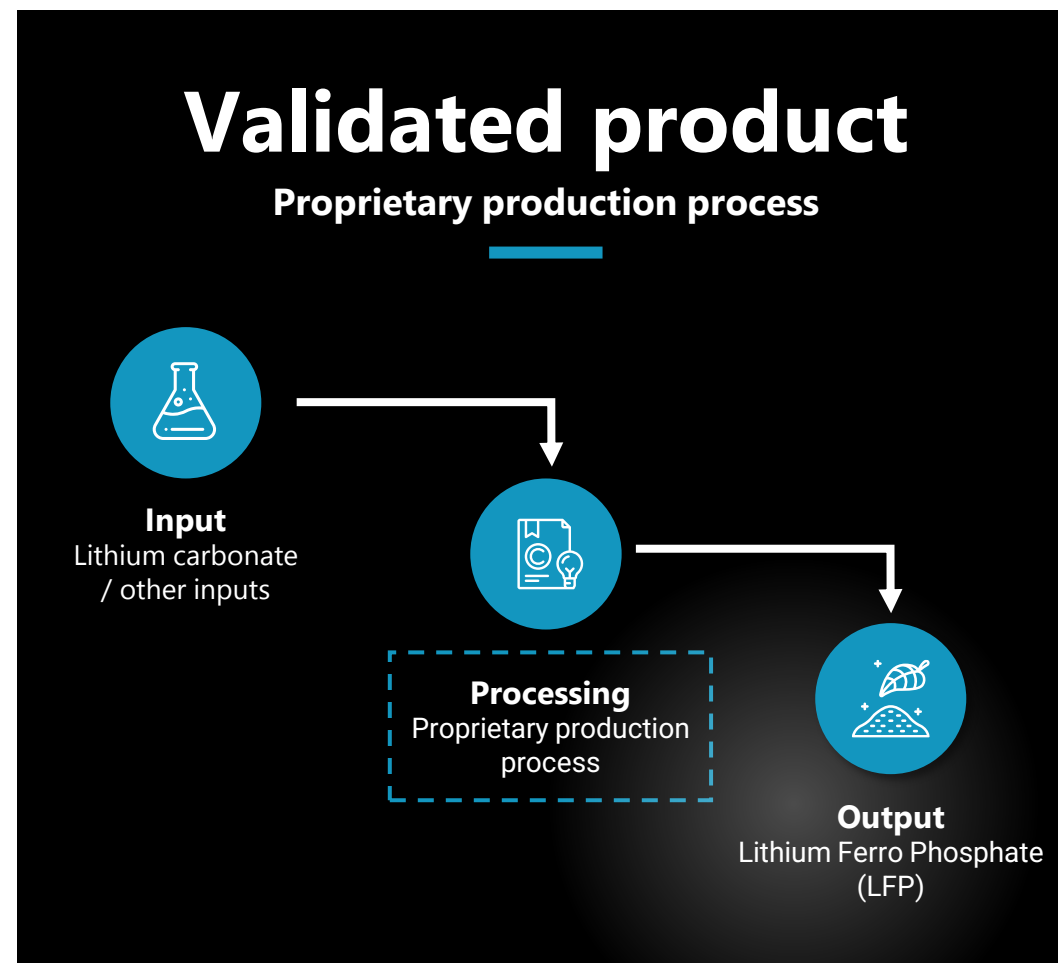
- ✓ **High barriers to entry**

20+ years of technical expertise, combined with recently expired LFP patents in China underpins competitive advantage

- ✓ **Sustainable and ethical**

Improves sustainability by reducing waste streams, while also promoting a more ethical supply chain by reducing cobalt use

Notes: 1. Refer to the next slide.





# Verified by battery materials expert NOVONIX (ASX:NVX)

Results validate LIT's cutting-edge technology and commitment to commercialisation

## VALIDATED TECHNOLOGY<sup>1</sup>

- LIT's LFP product was independently tested against commercially available competitor product
- LIT's LFP was proven to be the most stable out of all the samples and had the potential to support for long-lifetime cell designs
- Results support LIT as a capable manufacturer to produce LFP
- LIT is continuing to pursue pathways to commercialise its LFP cathode manufacturing technology



## HIGHLIGHTS

- ✓ **Verified product**  
Tested by NOVONIX, leading expert in battery materials, to be a high-quality commercially competitive product
- ✓ **Premium equipment**  
Tested with some of the most accurate and precise lithium-ion battery cell equipment globally
- ✓ **Valuable for offtake discussions**  
Third-party validation of product quality is crucial in supporting offtake discussions with potential partners

Notes: 1. ASX announcement released 13 April 2023.



# Capitalising on market trends

LFP is becoming the preferred battery type as it is safe, ethical, and cost-efficient



## Increasing demand for LFP batteries

Demand for LFP batteries is increasing rapidly as EV manufacturers adopt the technology



## LFP is vital for battery manufacturing

Critical input component for EV batteries and energy storage systems (ESS)



## Improved safety profile and lower cost

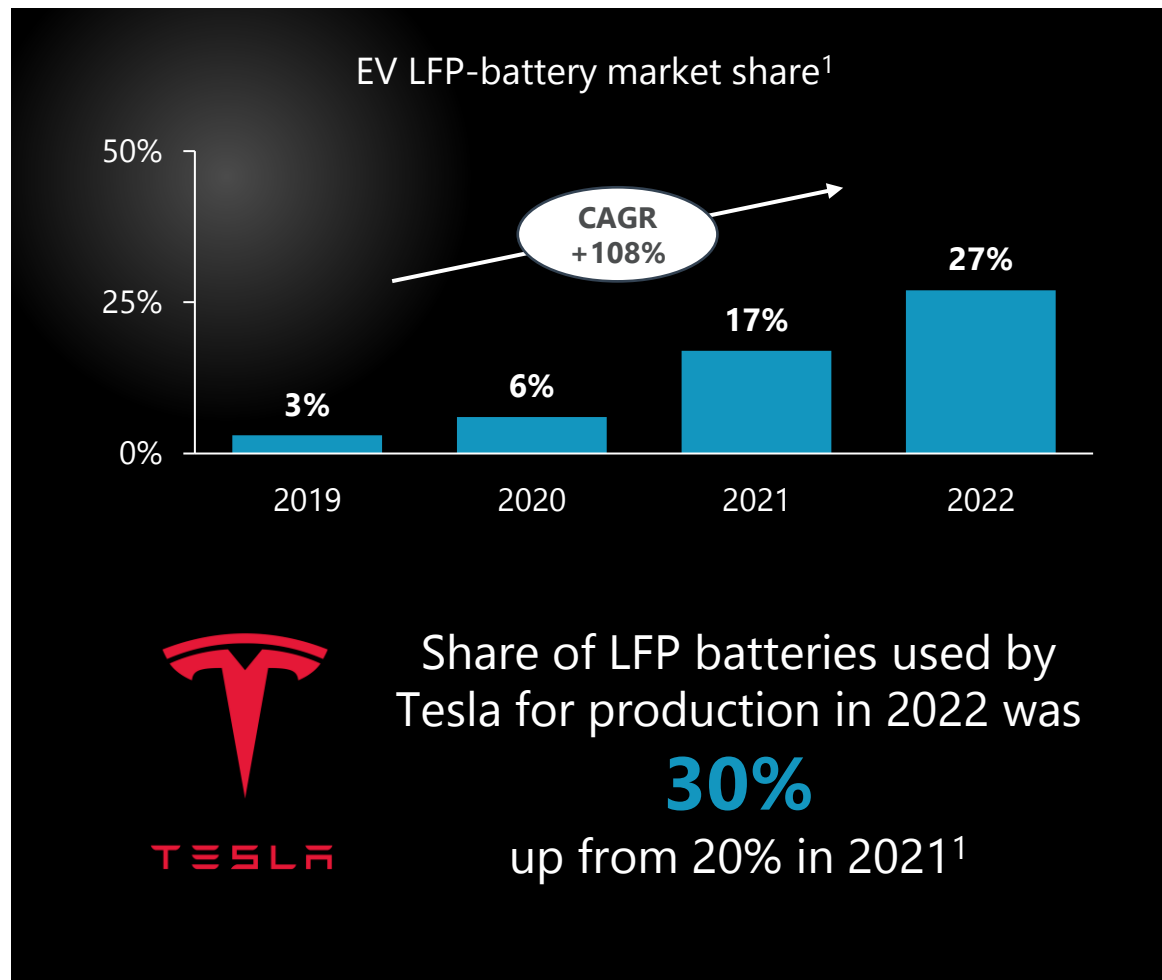
LFP batteries are safer than traditional cobalt and nickel-based batteries, while also being cheaper to manufacture



## Sustainability pressures

Ethical concerns behind cobalt and nickel-based batteries are pressuring EV manufacturers to adopt alternatives

Notes: 1. IEA, Global EV Outlook (2023).





# Reducing supply chain risks

World governments are actively trying to reduce dependency on China, who produces >95% of all LFP



## China dominates the market

Countries are looking to diversify their supply chain reliance



*We're not looking to decouple from China. We're looking to de-risk and diversify our relationship with China.... so we're not dependent on any one country for necessary product. It means protecting a narrow set of advanced technologies critical for our national security.<sup>1</sup>*



**Joe Biden (46<sup>th</sup> US President)**



## Government policies

Various government policies in place to secure future access to critical materials



**Australian Critical Minerals Strategy Battery Strategy**

- ✓ National framework to grow critical minerals sector
- ✓ Leverage Australia's strengths in mining and mineral processing



**Inflation Reduction Act (US)**

- ✓ Invest into domestic energy production with Australia set to become a domestic source for critical sectors



**EU regulatory framework for batteries**

- ✓ Framework to promote a circular economy and reduce the environmental impact throughout all stages of the battery life cycle

Notes: 1. Critical materials supply chain CNBC article 'We are not decoupling': G-7 leaders agree on approach to 'de-risk' from China'. (2023).



# Commercialisation pathway

Seize the growing demand of LFP through commercialisation

Long-term (3+ years)		
Medium-term (2-3 years)		
Short-term (1 year)	<ul style="list-style-type: none"><li>• Secure offtake agreements for LFP to underpin scaled facility</li><li>• Development of the scaled facility (align with commercialisation strategy)</li><li>• Demonstrate commercial viability of proprietary LFP production process</li></ul>	<ul style="list-style-type: none"><li>• Development of commercial facility for LFP production of 10tpa</li><li>• Commence commercial scale production of LFP</li><li>• Expansion of capacity through additional production facilities</li></ul>
<ul style="list-style-type: none"><li>• Complete engineering study for a scaled facility</li><li>• Develop partnerships to assist in the development of the scaled facility</li><li>• Finalise LMFP<sup>1</sup> product development</li></ul>		

Notes: 1. Lithium Manganese Ferro Phosphate.





# Battery Recycling



# Leading Australian battery recycler

Revenue-generating battery recycling business executing on a plan to reach cash flow break-even



## Australia's leading battery recycler

Only Australian battery recycler which processes batteries domestically



## High barriers to entry

Established operations with high costs and regulatory barriers to entry, which are only becoming more complex



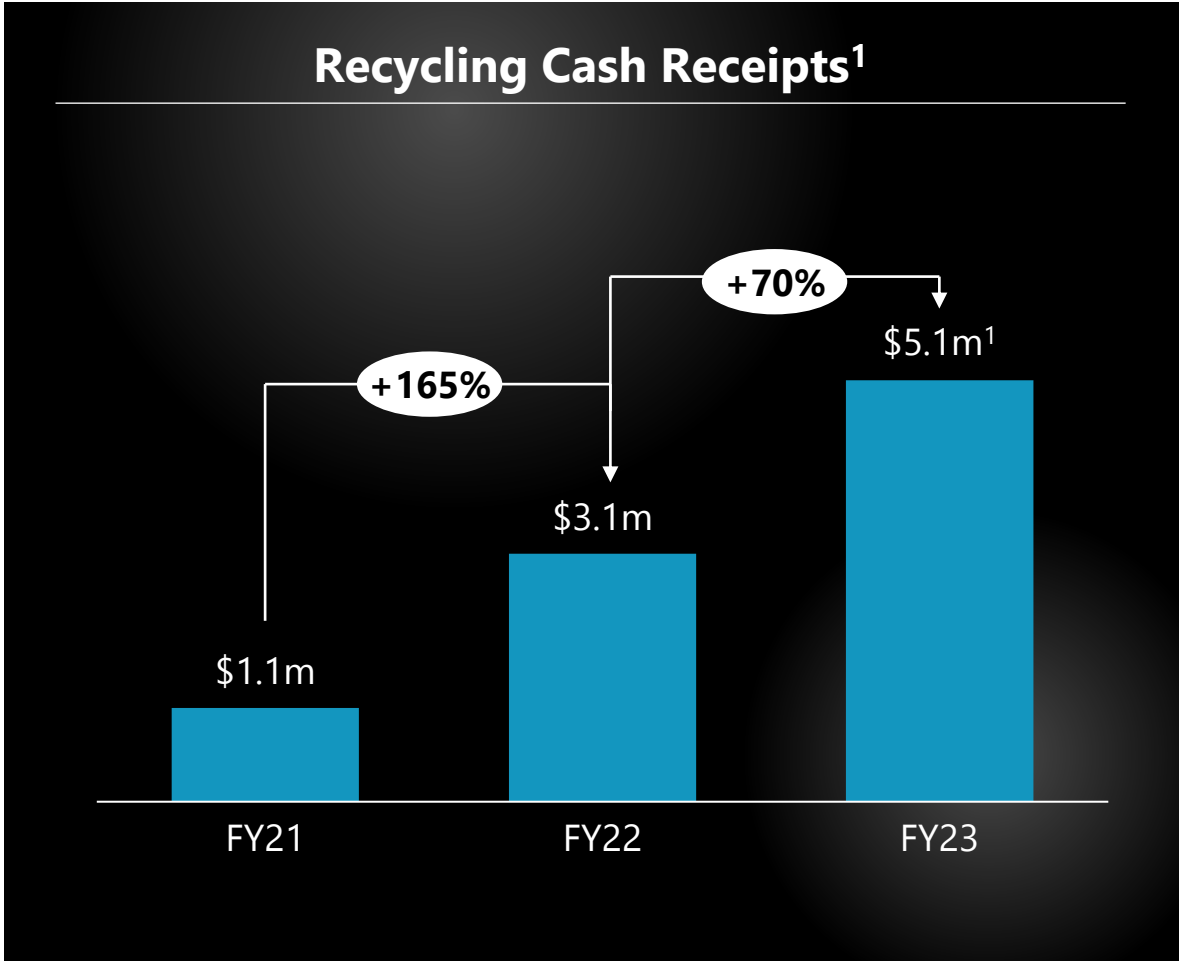
## Strong financial performance

In FY23 the recycling division recorded cash receipts of \$5.1m<sup>1</sup>, representing an increase of 70% on FY22



## Pathway to profitability

Aiming to become the industry partner of choice and achieve break-even by FY24



Notes: 1. FY23 cash receipts based on unaudited results from June 2023 Quarterly Appendix 4C.



# Unrivalled recycling eco-system

Access to battery supply secured through both global and domestic strategic partnerships

## ✓ Global partners secured

Partnerships signed with global EV and ESS<sup>1</sup> manufacturers secures future supply of:

- Higher-fee large format lithium-ion batteries ('LIBs')
- Mixed batteries

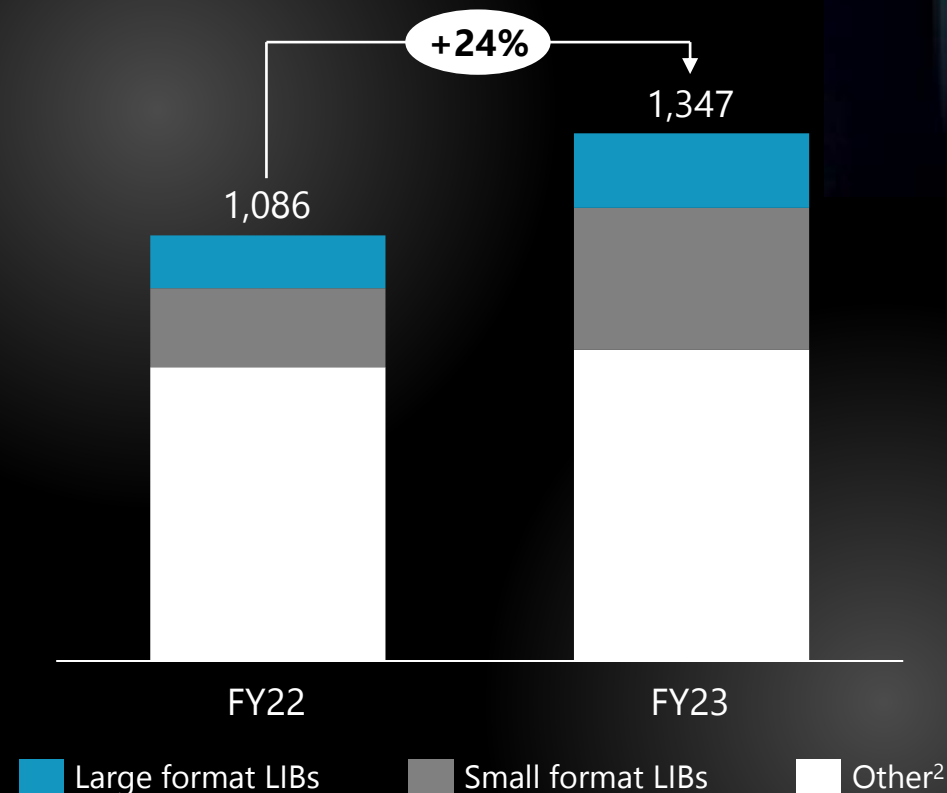
## ✓ Domestic partner network in operation

Wide partner network currently in place with brands to source recyclable batteries from across Australia

### Domestic partners



### Recycling volume growth (tonnes)



Notes: 1. Energy storage systems. 2. "Other" includes alkaline batteries, legacy chemistries and other collections (power tools and e-waste).



# Becoming a self-sustaining recycling business

Strategic roadmap to materially increase battery recycling volumes

Short-term (1 year)	Medium-term (2-3 years)	Long-term (3+ years)
<ul style="list-style-type: none"> <li>• Achieve cash flow positive in recycling operations</li> <li>• Sign agreements with tier 1 EV and ESS<sup>1</sup> manufacturers for battery sourcing</li> <li>• Adjust existing contract terms with partners to optimise returns</li> </ul>	<ul style="list-style-type: none"> <li>• Build collection and storage capacity nationally</li> <li>• Develop strategy for offshore battery recycling processing</li> <li>• Sign agreements for large format battery supply relationships</li> </ul>	<ul style="list-style-type: none"> <li>• Grow battery processing capacity to 1tph<sup>2</sup></li> <li>• Sign battery collection agreements with offshore partners</li> <li>• Increase processing capacity to accommodate large format battery growth</li> <li>• Develop offshore collection and storage capabilities</li> </ul>

Notes: 1. Energy storage systems. 2. Tonnes per hour.

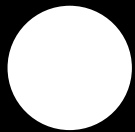
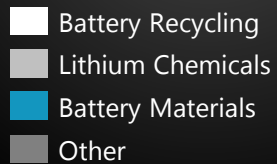




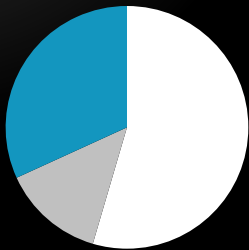
# Outlook



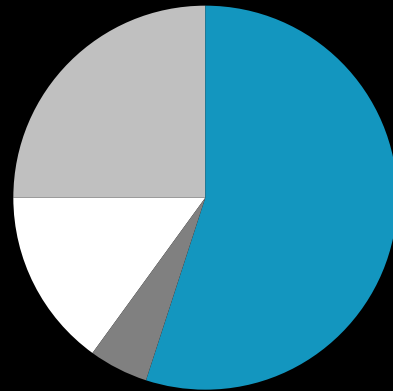
## Revenue ambition over time



Current



Medium-term



Long-term

LIT aspires to be the market leader in sustainable lithium-ion battery material production, with global and diversified revenues

”

*LIT has significant opportunities to commercialise its critical materials technologies, domestically and internationally. We are at the forefront of a once-in-a-century event - the global energy transition to decarbonisation. LIT is uniquely positioned to contribute to this transition and build robust supply chains of critical battery materials. With our proven technology, team of experts, sustainability focus and market opportunities, LIT is embarking on an exciting journey.*

**Simon Linge (CEO & Managing Director)**

”



# Investment highlights

**Growing global demand:** Well-positioned to capitalise on the increasing global demand for lithium

**Validated technologies:** Established strategic partnership with MinRes and confirmed high-quality LFP product via testing at NOVONIX

**Market leading recycling business:** Leading Australian battery recycler, providing sustainable solutions for the disposal of batteries

**Strategic supply partnerships:** Access to battery supply for recycling secured through global and domestic partnerships

**Continued growth pathways:** Well-defined path to accelerate commercialisation and deliver sustainability to LFP production

**Funded for growth:** \$15m<sup>1</sup> in cash and liquid investments to fund growth objectives

Notes: 1. Cash and liquid investments as at 30 June 2023.



# Board and management

High profile and experienced leadership team

## LIT Directors



**Simon Linge**  
Managing Director and  
CEO



25+ years of senior management  
experience within global manufacturing,  
recycling and engineering services



**George Bauk**  
Non-Executive Chairman



15+ years as a listed company director  
involved in mining exploration and production  
both domestically and internationally



**Kristie Young**  
Non-Executive Director



25+ years' experience focusing on the  
resources sector, with 15+ years' experience  
on boards and committees



**Phil Thick**  
Non-Executive Director



30+ years' experience as a senior executive  
across oil & gas, mining and chemical  
processing sectors

## LIT Management



**Stuart Tarrant**  
Chief Financial  
Officer



20+ years' experience with mineral  
extraction, mineral exploration,  
finance and agribusiness



**Steven Marshall<sup>1</sup>**  
GM – Recycling



10+ years' experience in the  
recycling industry with proven  
commercialisation experience



**Andrew Skalski**  
GM – Safety, Risk,  
and Integration



Responsible for the battery  
material's implementation of its  
global expansion plans



**Andrew Napier**  
GM – Technology  
Development



25+ years' experience in the  
design, construction and  
commissioning of Greenfields and  
Brownfields facilities



**Julie Coleman**  
Chief People  
Officer



30+ years' experience in HR across  
mining, telecommunications, and  
higher education sectors

Notes: 1. Steven Marshall will commence his position on 6 November 2023



# Corporate overview

Strong balance sheet with cash and listed investments of A\$15 million

## Share price performance (last 6 months)



## Financial information

Share price (25-Aug-23)	\$0.04
52-week trading range (low / high)	\$0.03 / \$0.08
Shares on issue	1,222m
<b>Market capitalisation (25-Aug-23)</b>	<b>\$48.9m</b>
Cash (30-Jun-23)	\$9.0m
Listed investments (30-Jun-23)	\$6.0m
Debt (30-Jun-23)	N/A
<b>Cash and listed investments (30-Jun-23)</b>	<b>\$15.0m</b>

Notes: 1. Includes Charger Metals (ASX: CHR), Evion Group NL (ASX: EVG) and Galan Lithium (ASX: GLN). Joint venture holdings of 30% for certain tenements held by CHR also exist (refer to ASX announcement released 14 June 2023).



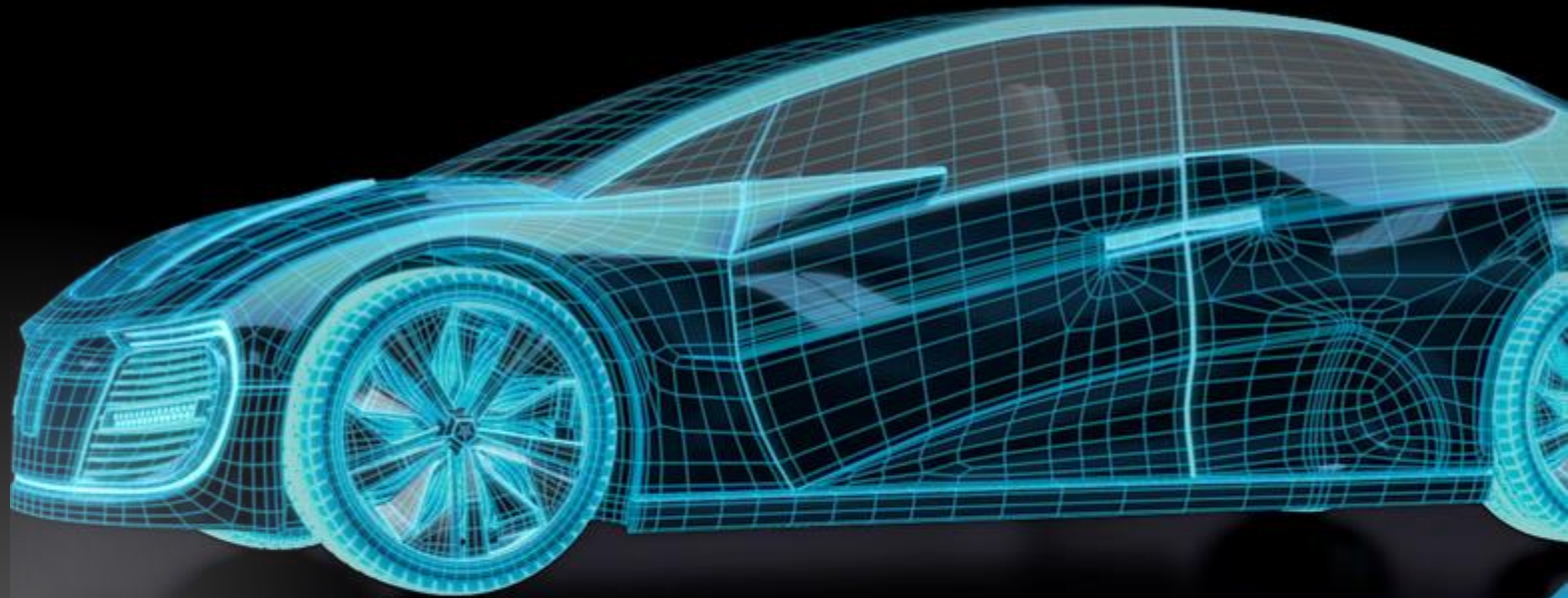
# Lithium<sup>+</sup> Australia

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