



The Manna Lithium Project

Building the Next Australian Lithium Producer

12 September 2023 | ASX:GL1

Ron Mitchell – Managing Director

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Corporate | People | Culture

Strategic Highlights – Why Invest & Partner?



Multi-asset development optionality

- Combined Mineral Resource of **54Mt @ 1.09% Li₂O**
- Two highly prospective projects provides significant optionality around development and funding alternatives



JORC compliant resource

- Global Lithium wholly owns **2 of only 14 JORC** compliant lithium resources in Australia listed on the ASX
- Most lithium resources are owned under joint ventures



Tier 1 jurisdiction

- Located in the **World's best mining jurisdiction of Western Australia**
- Close to existing lithium projects and **major infrastructure**



Strategic partnerships & well-funded

- **Secured strategic partnerships with blue-chip counterparties** Canmax (formerly Suzhou TA&A) and Mineral Resources (ASX:MIN)
- **Well funded** through to FID on the Manna Lithium Project



Experienced Board, strong lithium credentials

- **Experienced Board and management** team with deep background in mining, exploration and project development
- MD is the current **Chair of the LME Lithium and Cobalt Committee**



Value accretive & growth focussed

- Pursue near term **cash flow** opportunities.
- Continue to seek and review **strategic M&A** opportunities
- **Resources diversification** via development of other critical mineral resources



GL1 Corporate Snapshot (8 September 2023)

Market Cap

A\$402m

Share Price

A\$1.55

Shares on issue

259.86m

Options¹

12.68m

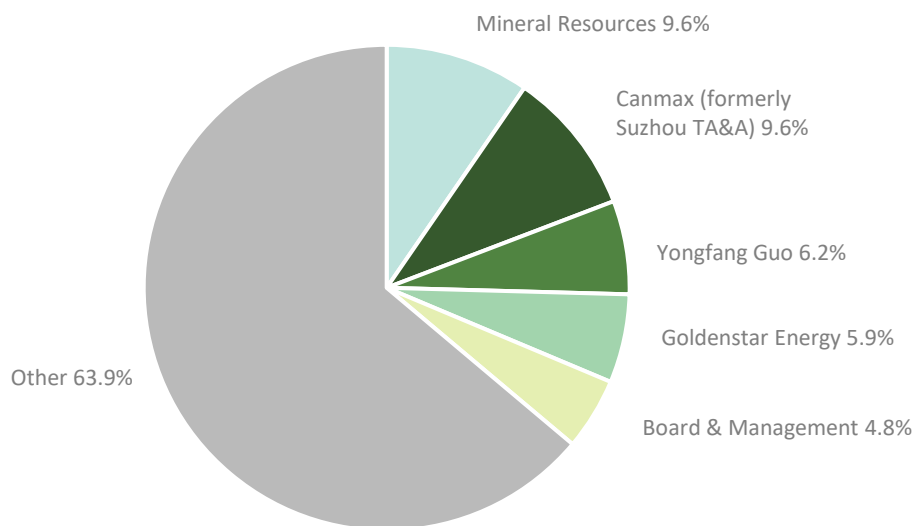
Cash²

A\$59m

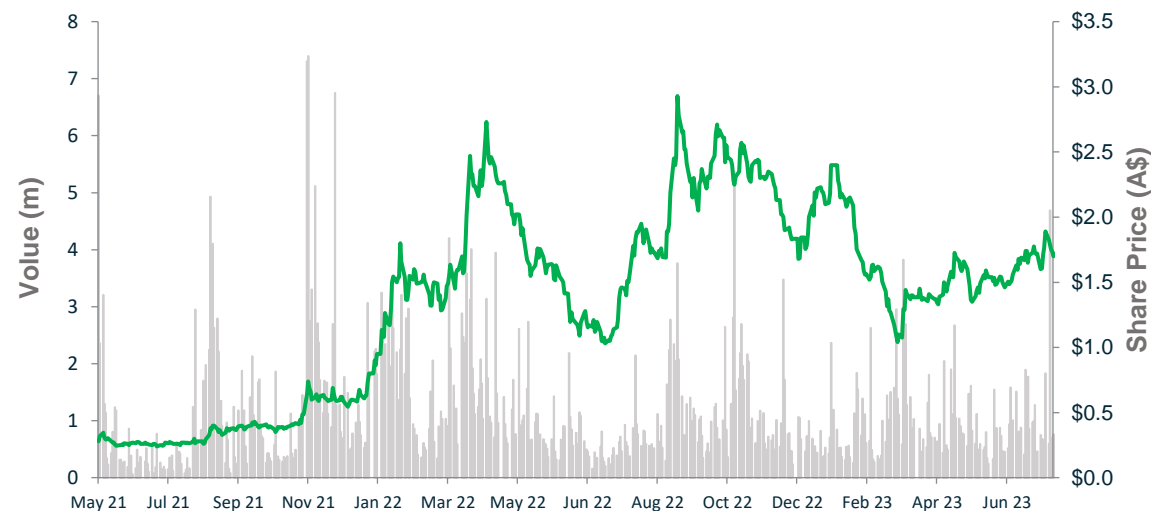
Equity in ASX:KAI^{2&3}

\$6.3m (10%)

Share Register



ASX share price performance



Research Coverage



1. Including various terms of performance rights

2. As at 31 July 2023

3. Refer ASX release titled "MANNA LITHIUM PROJECT EXPANSION OF REGIONAL INTERESTS", 26 JUNE 2023, incl. Right Issue of 44m shares.

Board



Geoff Jones

Non-Executive Chair

Current CEO of MACA Interquip, Non-Executive Director of Rumble Resources (ASX:RTR) and Non-Executive Chair of Ausgold Ltd (ASX:AUC). Previous MD of GR Engineering Services (ASX:GNG). 35 years experience in engineering, project delivery and management in minerals processing.



Dr Dianmin Chen

Non-Executive Director

Founder of Global Lithium with 35 years' experience in metals, mining and capital markets. Former Barrick Gold senior management and Managing Director / CEO of Norton Goldfields Limited.



Ron Mitchell

Managing Director

Current Chair of the LME Lithium and Cobalt Committee; Former Sales Director of Tianqi Lithium & Talison Lithium; 13 years experience in the lithium industry. 7 years living and working in Nth Asia.



Hayley Lawrance

Non-Executive Director

Commercial lawyer; Director and company secretary for +22 years with a mining industry focus including ESG and approvals; Chair of Holyoake Inc.



Greg Lilleyman

Non-Executive Director

Former Fortescue Metals and Rio Tinto executive with 30 years of international experience in the mining sector. Key global contacts and networks throughout the mining sector.



Kevin Hart

Company Secretary

Chartered accountant with +30 years experience in accounting and administration of ASX listed public companies; Principal of Endeavour Corporate.

Management & Leadership

Finance & Commercial Team



Matt Allen
Chief Financial Officer



Phoebe Yan
Manager Markets & Growth

Project Development Team



Dr Tony Chamberlain
Project Director



Trevor Ennis-John
Environmental & Land
Access Manager



Natalie Eastough
Health & Safety
Manager

Exploration & Geology Team



Stuart Peterson
GM Exploration



Logan Barber
Exploration Manager

Approvals Team



Simon Corrigan
Approvals &
Corporate Affairs
Advisor



Nicole Stein
Community
Relations Manager

Resource | Exploration | Growth



100% Owned Project 1

Manna Lithium Project

Manna Lithium Project

Geology

- Outcropping spodumene bearing pegmatite
- High grade individual pegmatite dykes +20m wide

Manna Deposit

- 100% ownership acquired¹
- **Mineral Resource Estimate of 36Mt @ 1.13% Li₂O²**

Significant Upside

- Significant exploration upside with resource open at depth and to the NE and SW
- **20-person** exploration camp recently commissioned
- **+50,000m** RC and diamond drilling program underway

Infrastructure Rich

- **The World's best** lithium mining jurisdiction – Gold, Nickel and Lithium
- 100km East of Kalgoorlie – 13km North of Trans Australian Railway
- Railway or road options from Kalgoorlie to Esperance Port or Kwinana Port

1. Refer ASX release titled "COMPLETION OF MANNA TRANSACTION AND STRATEGIC PLACEMENT", 15 November 2022.

2. Refer ASX release titled "MANNA LITHIUM RESOURCE GROWS", 26 July 2023



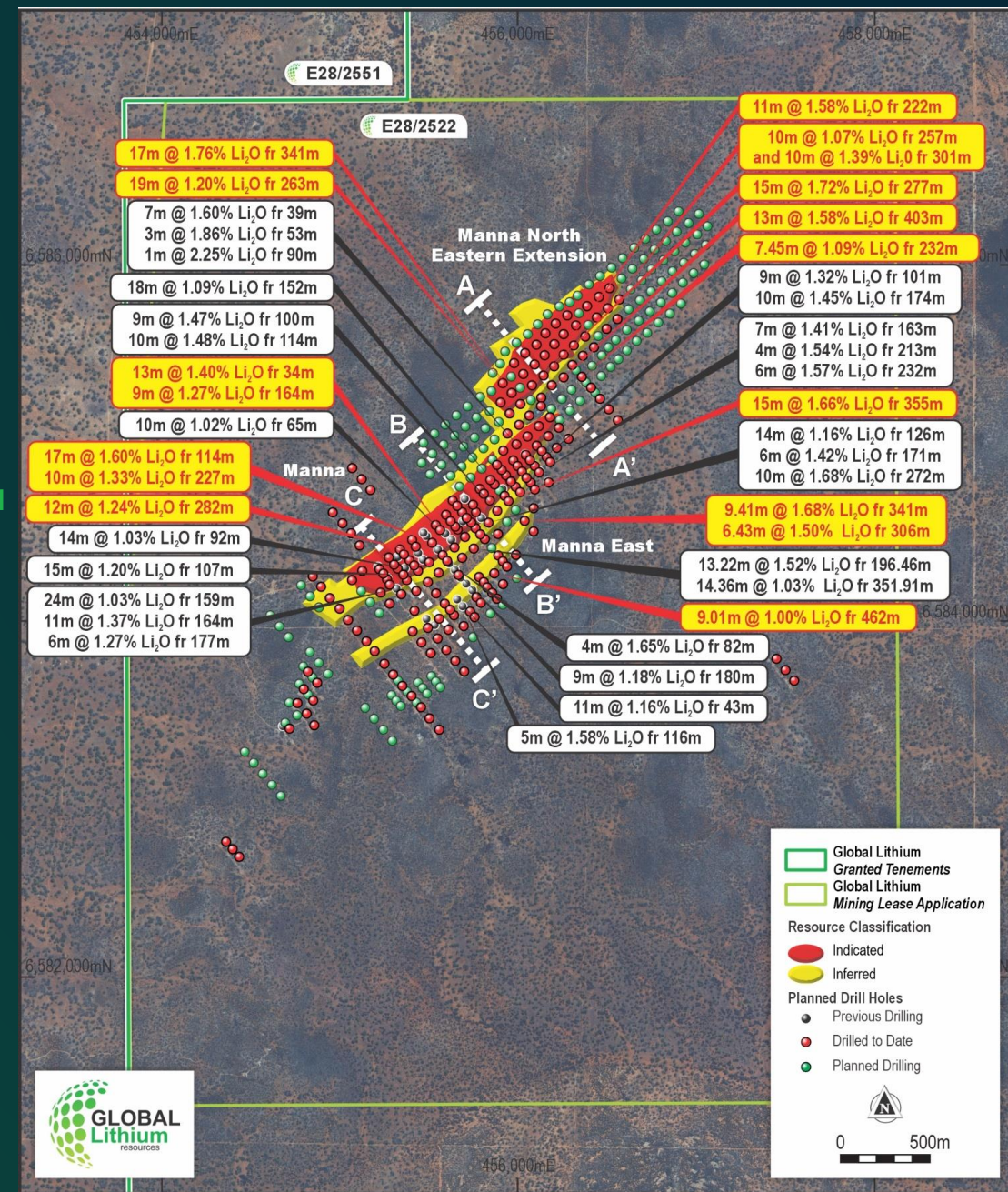
Manna Lithium Project

Mineral Resource Estimate Grows

Pathway to a Larger Resource at Manna

- Manna is a developing **world class** Lithium asset
- Mineral Resource Estimate (MRE) increases to **36.0Mt @ 1.13%**¹
- **24.1%** increase in total contained Li₂O to 406,000 tonnes Li₂O
- **13%** increase in Mineral Resource grade to 1.13%
- **10%** increase in Mineral Resource tonnes to 36.0Mt
- CY23 Exploration: **+50,000m** RC and Diamond drilling program underway to further increase the resource
 - **5 drill rigs** currently on site
 - Future upgrades to MRE expected H1 CY24
 - Manna demonstrates significant scope for further growth

1. Refer ASX release titled "MANNA LITHIUM RESOURCE GROWS", 26 July 2023



Manna Exploration Upside

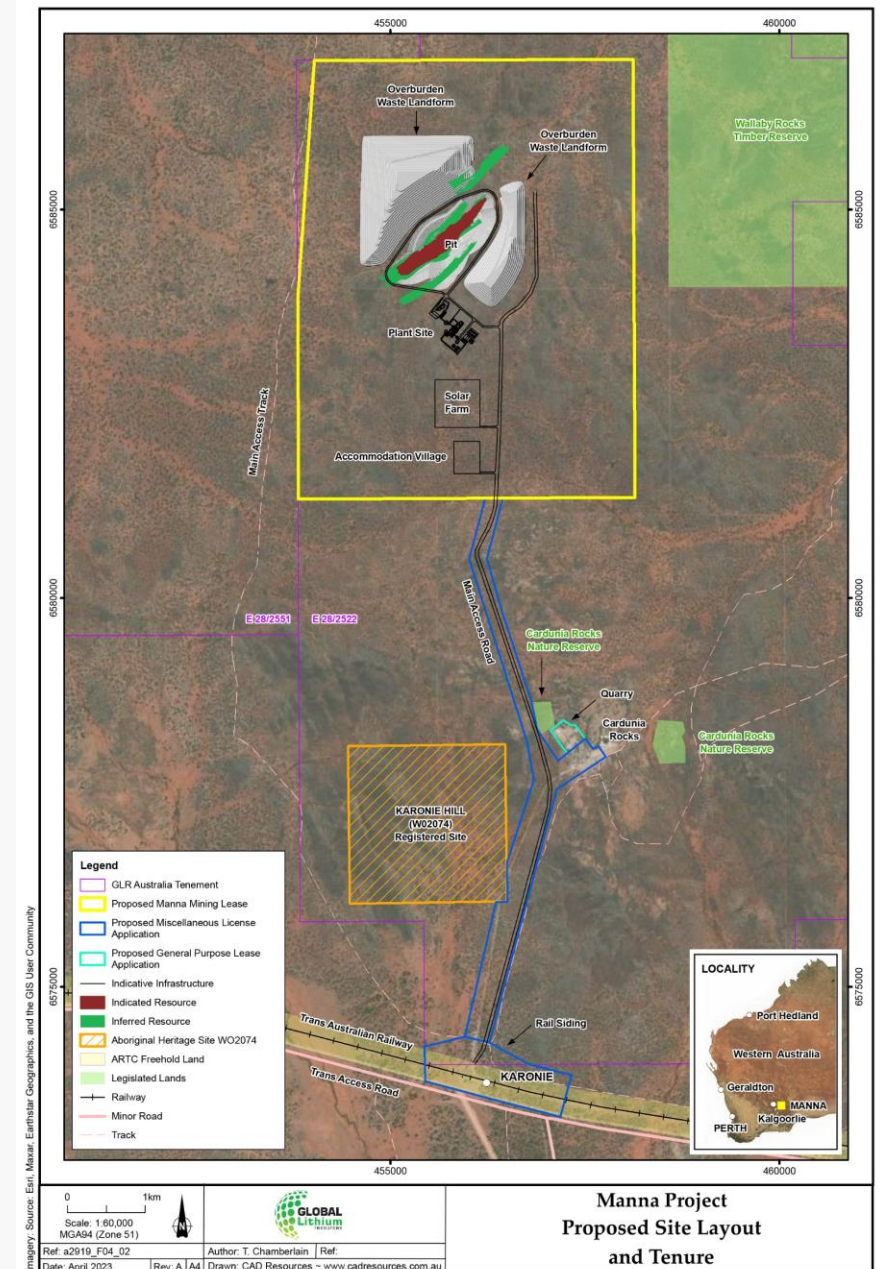
- 50,000m exploration program underway
- 5 drill rigs currently on site



Manna Lithium Project

Mining Lease Application

- Mining Lease application (MLA 28/414) lodged with Department of Mines, Industry Regulation and Safety (DMIRS)
- 13km North of Trans Australian Railway
- Area of Mining Lease covers 2,406 hectares which includes:
 - Manna deposit and potential resource extensions along strike
 - Process plant
 - Waste rock landforms
 - Other mine operation infrastructure
 - Ancillary services
- Mineralisation Report and Supporting statement peer reviewed



1. Refer ASX release titled "MINING LEASE APPLICATION LODGED FOR MANNA LITHIUM PROJECT", 26 April 2023.

Manna mining lease map¹

Manna Lithium Project

Heritage & Native Title

- Land Access Agreement for Exploration executed with Kakarra Part B¹
- Heritage surveys across the entire mining lease area completed
- Native Title Mining Agreement to support Final Investment Decision and project development under formal negotiation



Global Lithium and Kakarra Part B Traditional Owners following signing of the Land Access Agreement – June 2023



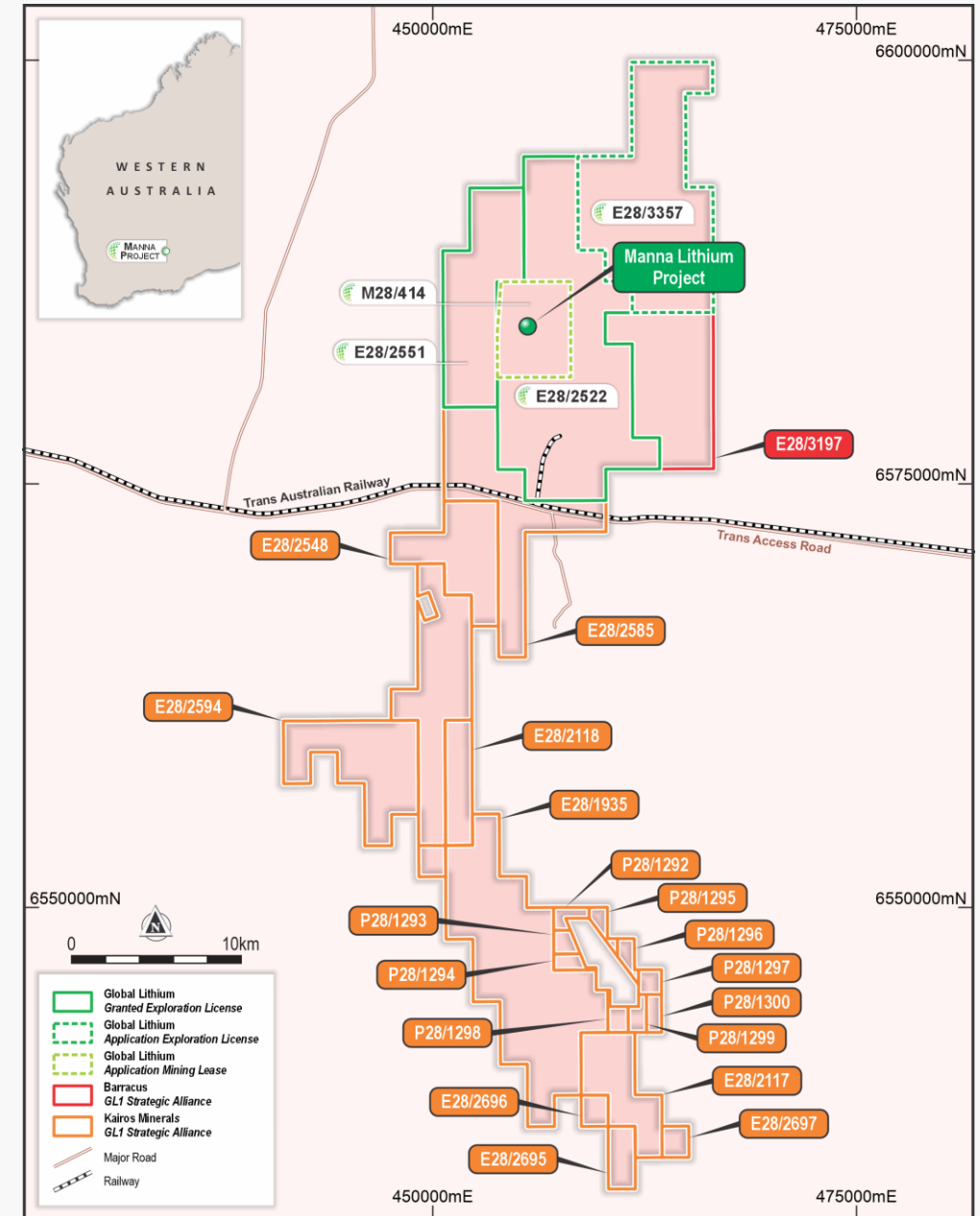
Heritage Survey Group Photo – August 2023

Manna Lithium Project - Regional Expansion

Strategic Investment

Global Lithium announces multiple acquisitions to significantly expand its regional footprint

- A\$4.6 million strategic investment and collaboration agreement secured with **Kairos Minerals Limited (ASX: KAI)** over the Roe Hills Lithium Project
- Roe Hills is immediately adjacent to GL1's Manna Lithium Project area
- Infrastructure, water and heritage survey collaboration has been agreed between the parties
- Right of first refusal on any non-precious mineral discovery
- Option agreement executed with private exploration company **Baracus Pty Ltd** over E28/3197 to the east of GL1 tenements



1. Refer ASX release titled "MANNA LITHIUM PROJECT EXPANSION OF REGIONAL INTERESTS", 26 JUNE 2023.

Near Term Cash Flow | Project Development | Technical De-risking

Manna Lithium Project

Near Term Cash Flow Opportunity – Spod Ore Concentrate Project

- GL1 China trip in May
 - Visited major spodumene beneficiation and lithium chemical plants
 - Strong interest in Spodumene Ore Concentrate (SOC)
- SOC Pre-Feasibility Study (PFS) and other workstreams underway:
 - SOC Customer Commercial Partnering
 - SOC Package Award & Equipment Lead
 - Mining License Application (submitted)
 - Mining Permit Application
 - Mining Pre Strip & First SOC Production
- The PFS will be completed in Q4 CY23



Flotation Concentration Plant



Filter Presses



Lithium Chemical Plant

Manna Lithium Project

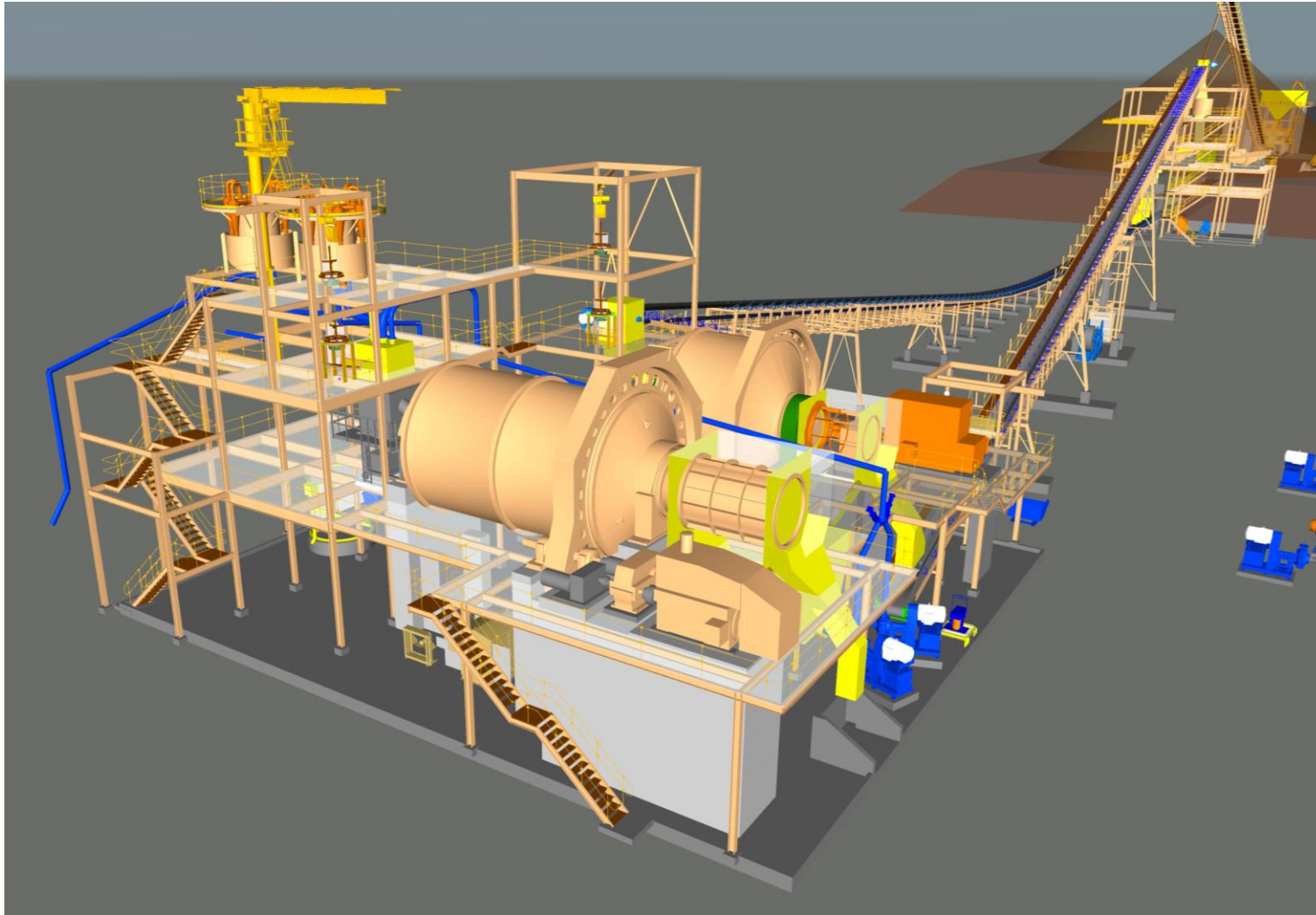
Definitive Feasibility Study (DFS)

- Definitive Feasibility Study (DFS) commenced in Q1 CY23
- Bulk metallurgical and ore variability test work underway
 - Initial results indicate high lithia recoveries
- Flow sheet based on proven technology at scale
- Various work programs to improve project economics
- Technical de-risking work streams underway
- Environmental and native title work activities progressing well
- Feasibility Study results expected in Q1 CY24
- Final Investment Decision (FID) in CY24



GL1 diamond core yard at the Manna Lithium Project site

Manna Project Design



Crushing & Milling Circuit

Initial Ore Sorting Trials Completed

Trials deliver 90% increase in lithium grade¹

- Excellent visual control between ore (white) and waste (black)
Test run elevated head grade from 0.88% Li₂O to 1.67% Li₂O
- Iron reduction of 93% to 0.4% Fe
- Potential to expand total minable tonnes and improve head grade feed to plant
- Trials performed at Steinert test facility, Western Australia
- Ore sorting will provide the following benefits:
 - Greater mining flexibility
 - Reject waste entering the crushing circuit
 - Reduce iron contamination
 - Increase concentrate production for same size plant
- Further test work planned to refine and improve the process



Manna pegmatite core showing black waste rock (top) and commercial scale Steinert ore sorting machine (bottom)

1. Refer ASX release titled "MANNA ORE SORTING TRIAL DELIVERS 90% INCREASE IN LITHIUM GRADE", 30 May 2023.

The background features a white-to-green gradient with several glowing green lines and circles of varying sizes, creating a futuristic or technological aesthetic.

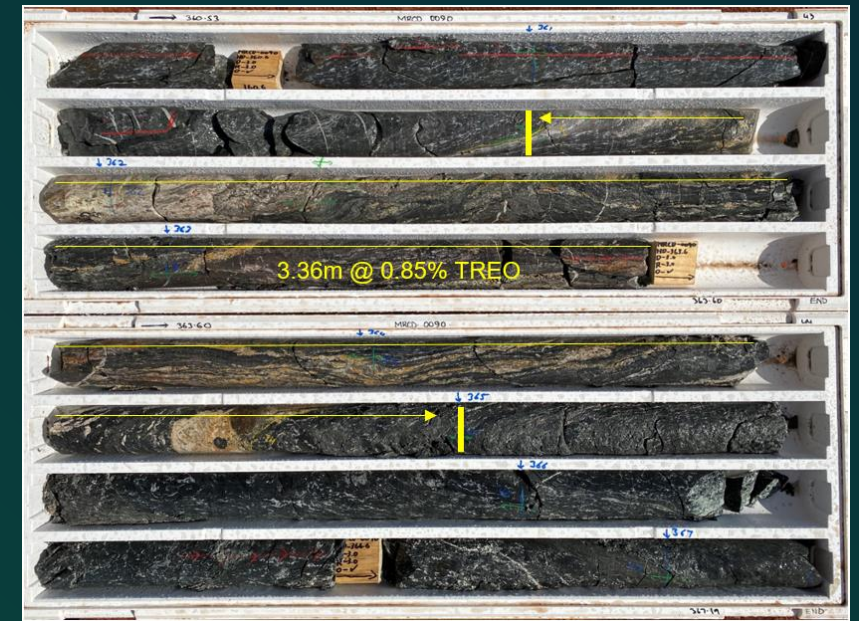
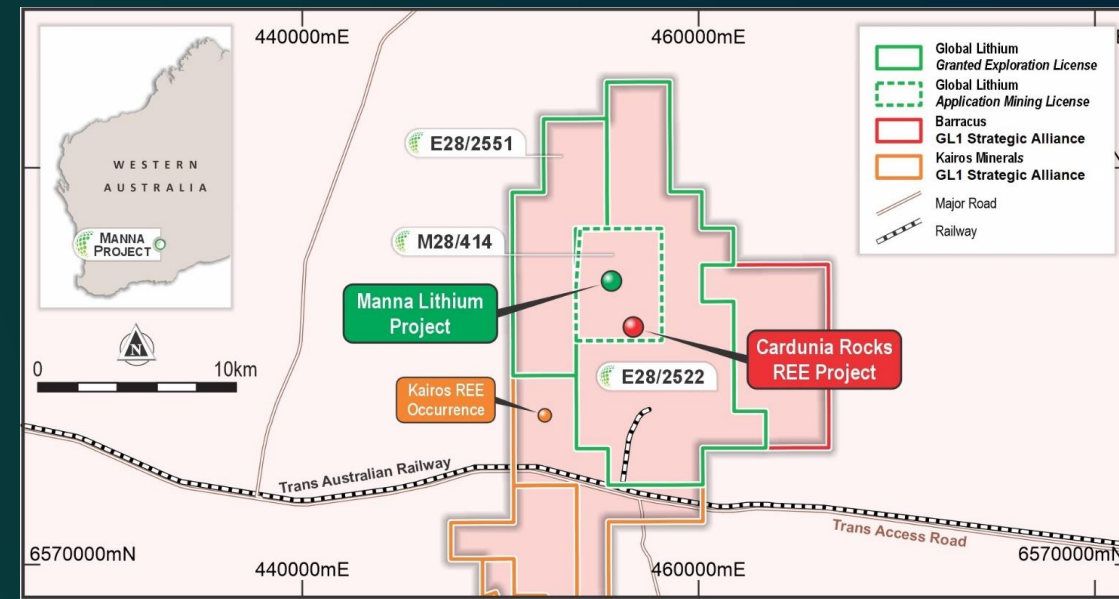
Another Critical Mineral Discovery Cardunia Rocks REE Project

Cardunia Rocks REE Project

REE Discovery

Discovery to be named Cardunia Rocks REE Project¹

- Bedrock Rare Earth Elements (REE) hosting mineralised system discovered adjacent to Manna Project Area
- High-grade assay result of **24.17%** Total Rare Earth Element Oxide (TREO)
- Standout drilling results occur over a strike length of 2km
- Large scale soil sampling program returns peak surface assay results of **3,350ppm TREO**
- REE surface anomaly identified from soil and auger sampling spans over **8.5km length**
- Exploration program planning underway to target REE mineralisation



Sample MRCD0090 Core Tray showing biotite magnetite alteration

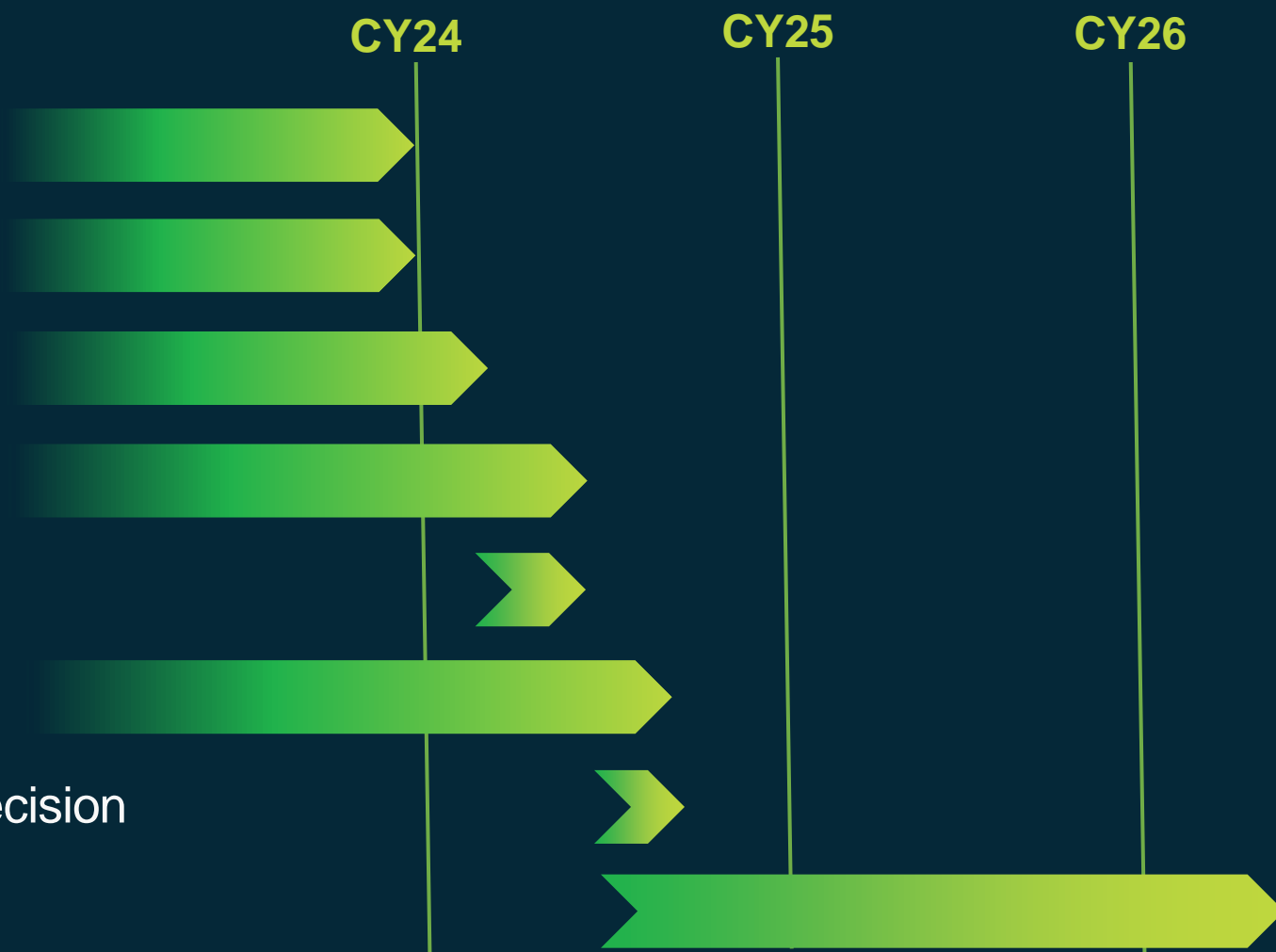
1. Refer ASX release titled "REE Discovery at Manna Project Area", 13 July 2023.

Major Manna Milestones

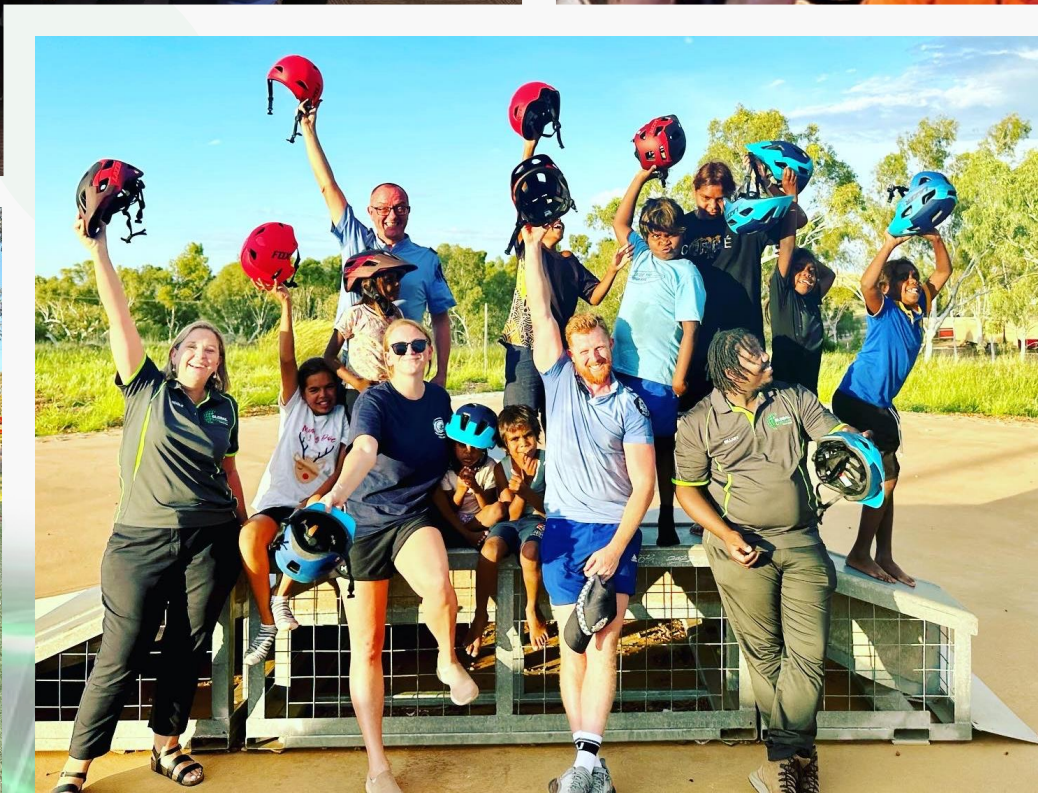
Key Milestones

Global Lithium Resources

- Exploration
- Metallurgy, Ore Reserve & SOC PFS
- DFS for Spodumene Concentrate
- Customer Offtake & Funding Strategy
- Mineral Resource Upgrade
- Environmental / Native Title Approvals
- Spodumene Concentrate Final Investment Decision
- Construction, Commissioning & SOP



Note: The timetable and exploration program are indicative and subject to change.



100% Owned Project 2
Marble Bar Lithium Project



Marble Bar Lithium Project

Highly Prospective Geological Setting

Geology

- Spodumene bearing pegmatite hosted in greenstone and granite contact
- Demonstrates similar geological settings to the nearby Pilgangoora¹ and Wodgina² deposits

Resource

- Inferred Mineral Resource of **18.0Mt @ 1.0% Li₂O³**
- Lithium mineralisation in drilling identified over 15km

Significant Upside

- **Highest grade lithium assays delivered to date⁴**
- 48,528m of RC drilling completed in CY2022
- Highly prospective gold and base metal targets will be tested in 2023

Infrastructure Rich

- Tier 1 lithium mining jurisdiction
- Sealed road through tenement area
- 150km south-east of Port Hedland

1. Owned by Pilbara Minerals (ASX: PLS).

2. Owned by the MARBL JV, 60% Albemarle, 40% Mineral Resources (ASX: MIN).

3. Refer ASX release titled "GL1 DELIVERS TRANSFORMATIVE LITHIUM RESOURCE BASE", 15 December 2022.

4. Refer ASX release titled "Highest Grade Lithium Assays Delivered to Date at Marble Bar Lithium Project", 2 May 2022

PORT HEDLAND

Port Hedland Salt (Salt)

Mallina Gold Project (Au)

Wodgina (Li)

Pilgangoora (Li)

Sulphur Springs (Zn-Cu-Pb)

Iron Bridge (Fe)

Mt Webber (Fe)

Sanjiv Ridge (Fe)

Warrawoona (Au-Ag)

Moolyella (Sn)

Marble Bar Lithium Project

MARBLE BAR

Moolyella (Sn)

Warrawoona (Au-Ag)

Sanjiv Ridge (Fe)

Mt Webber (Fe)

Iron Bridge (Fe)

Sulphur Springs (Zn-Cu-Pb)

Pilgangoora (Li)

Wodgina (Li)

Mallina Gold Project (Au)

PORT HEDLAND

Port Hedland Salt (Salt)

WESTERN AUSTRALIA

Perth

Global Lithium – Mineral Resources

Project Name	Category	Million Tonnes (Mt)	Li ₂ O%	Ta ₂ O ₅ ppm
Marble Bar	Indicated	3.8	0.97	53
	Inferred	14.2	1.01	50
	Subtotal	18.0	1.00	51
Manna	Indicated	20.2	1.12	56
	Inferred	15.8	1.14	52
	Subtotal	36.0	1.13	54
Combined Total		54	1.09	53

1. Refer ASX release titled "Manna Lithium Project Resource Grows," 26 July 2023.

GL1 Purpose & Values – It's who we are that matters

OUR PURPOSE

Empowering people to power the planet

People | Power | Planet

OUR VALUES

SAFETY

The standard you walk past is the standard you accept.

OWN IT

We do what we say we will do.

SUSTAINABILITY

We do the right thing while providing responsible returns to people and the planet.

INNOVATION

We empower people to innovate for the better.

TEAMWORK

We all win when we work together with a can-do mindset.

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