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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

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Strategic Highlights – Why Invest & Partner?

Multi-asset development optionality	▪ Combined Mineral Resource of **54Mt @ 1.09% Li_2O** ▪ 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

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GL1 Corporate Snapshot (8 September 2023)

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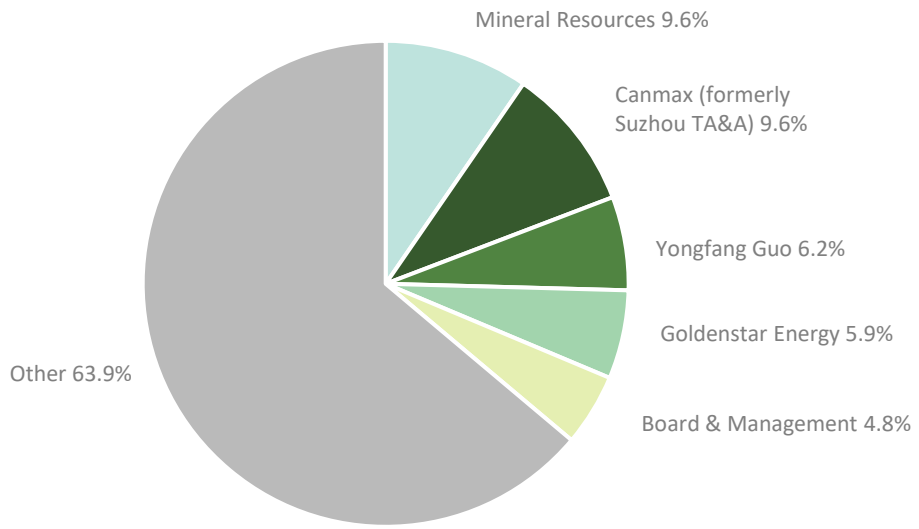
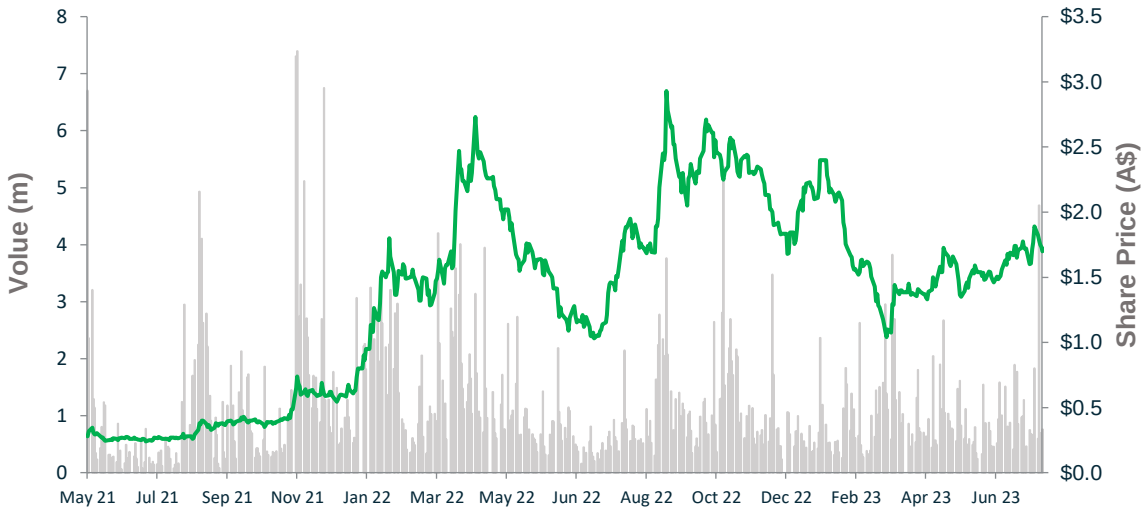
Market Cap	Share Price	Shares on issue	Options[1]	Cash[2]	Equity in ASX:KAI[2&3]
A$402m	A$1.55	259.86m	12.68m	A$59m	$6.3m (10%)

Share Register



ASX share price performance



Research Coverage

MACQUARIE | Canaccord Genuity | Barrenjoey | ARGONAUT | ShawandPartners | Jefferies

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.

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Board

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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

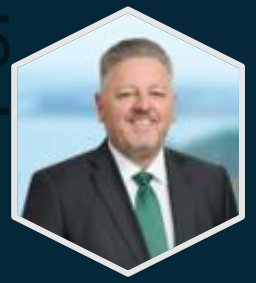
Founder of Global Lithium with 35 years' experience in metals, mining and capital markets. Former Barrick Gold senior management and Managing Director / CEO of Norton Goldfields Limited.

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.

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Management & Leadership

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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

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Resource | Exploration | Growth

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100% Owned Project 1

Manna Lithium Project

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Manna Lithium Project

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Geology

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

Manna Deposit

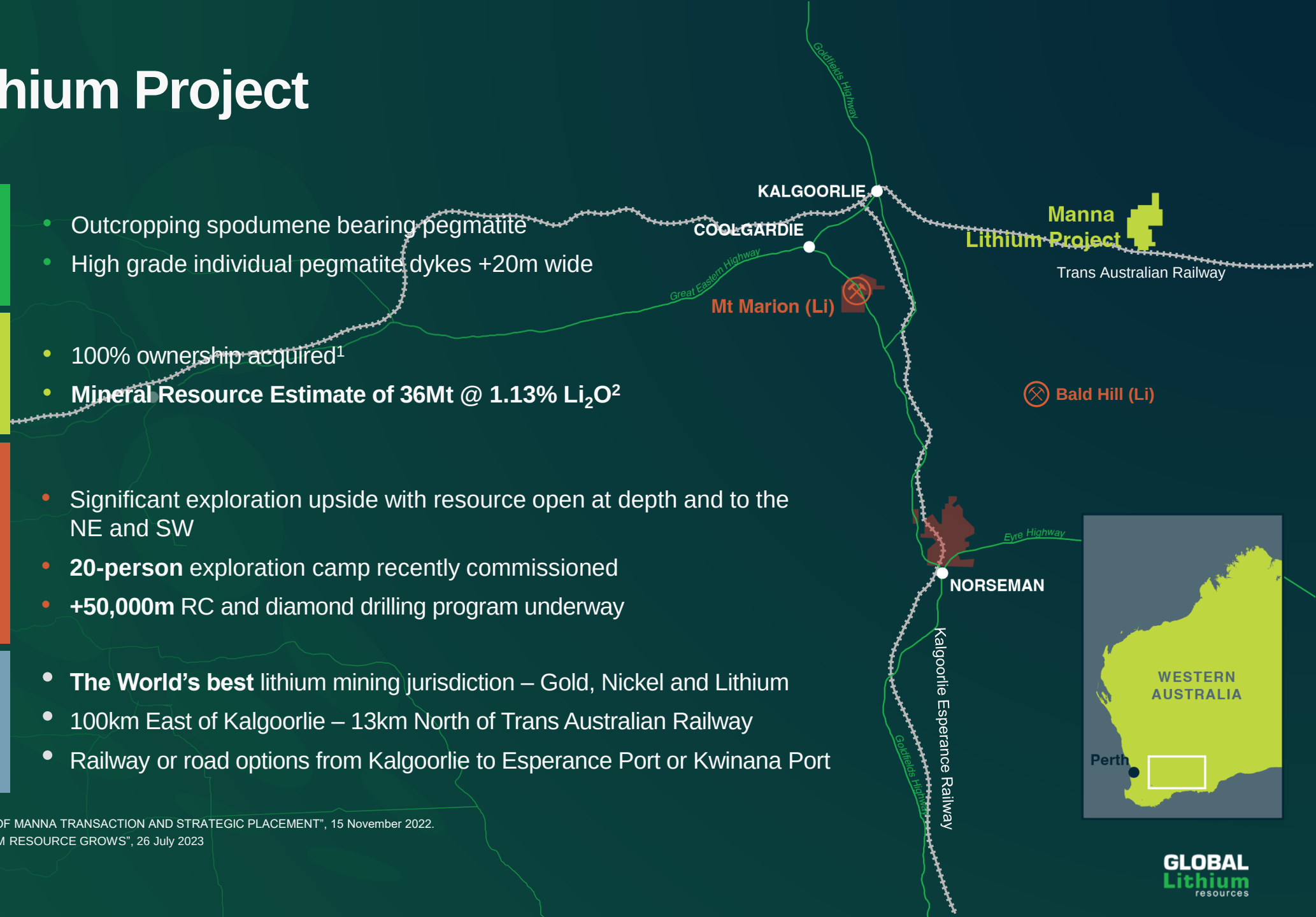
- 100% ownership acquired[1]
- **Mineral Resource Estimate of 36Mt @ 1.13% Li_2O[2]**

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

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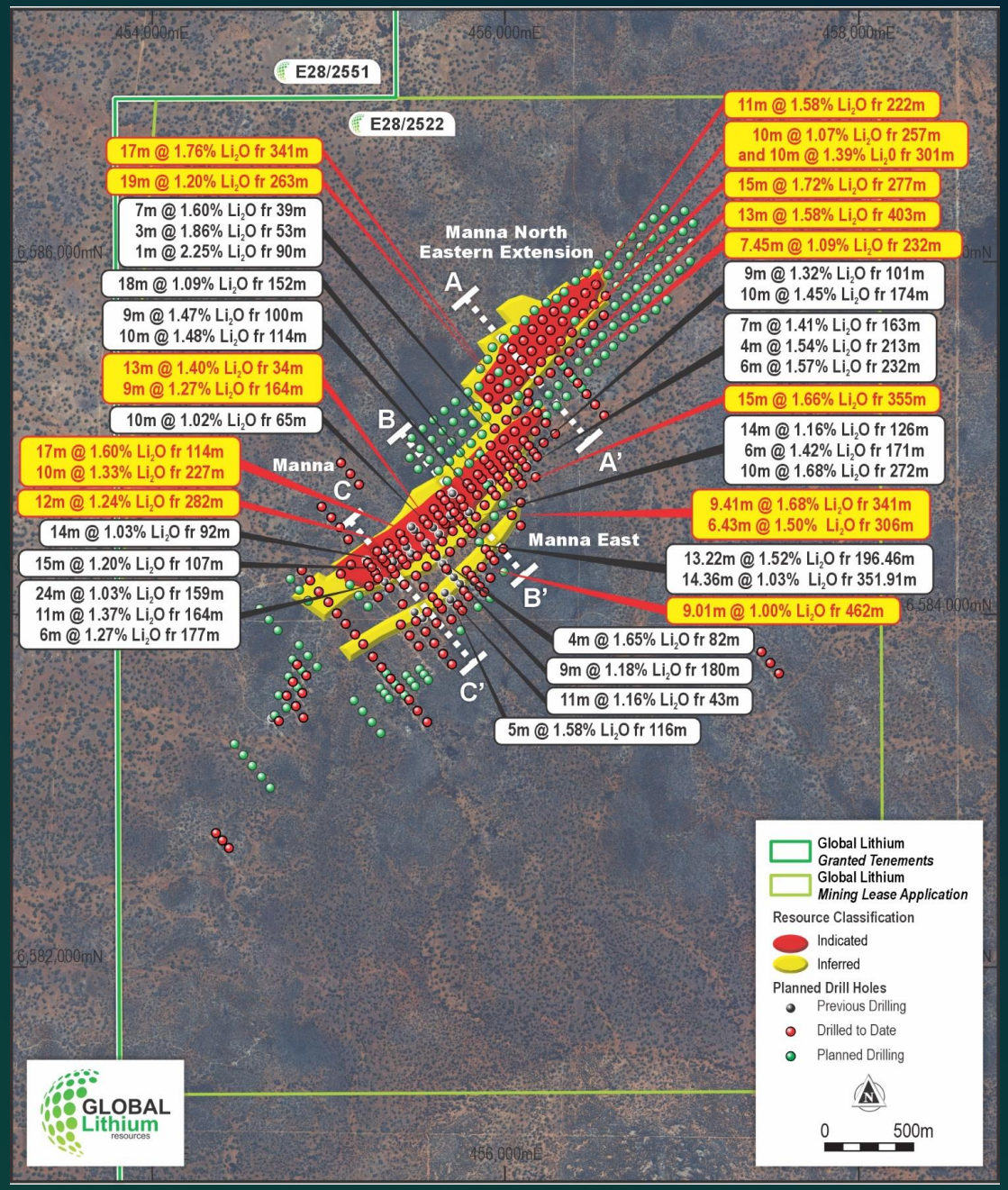
Manna Lithium Project

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 Li_2O to 406,000 tonnes Li_2O
- **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

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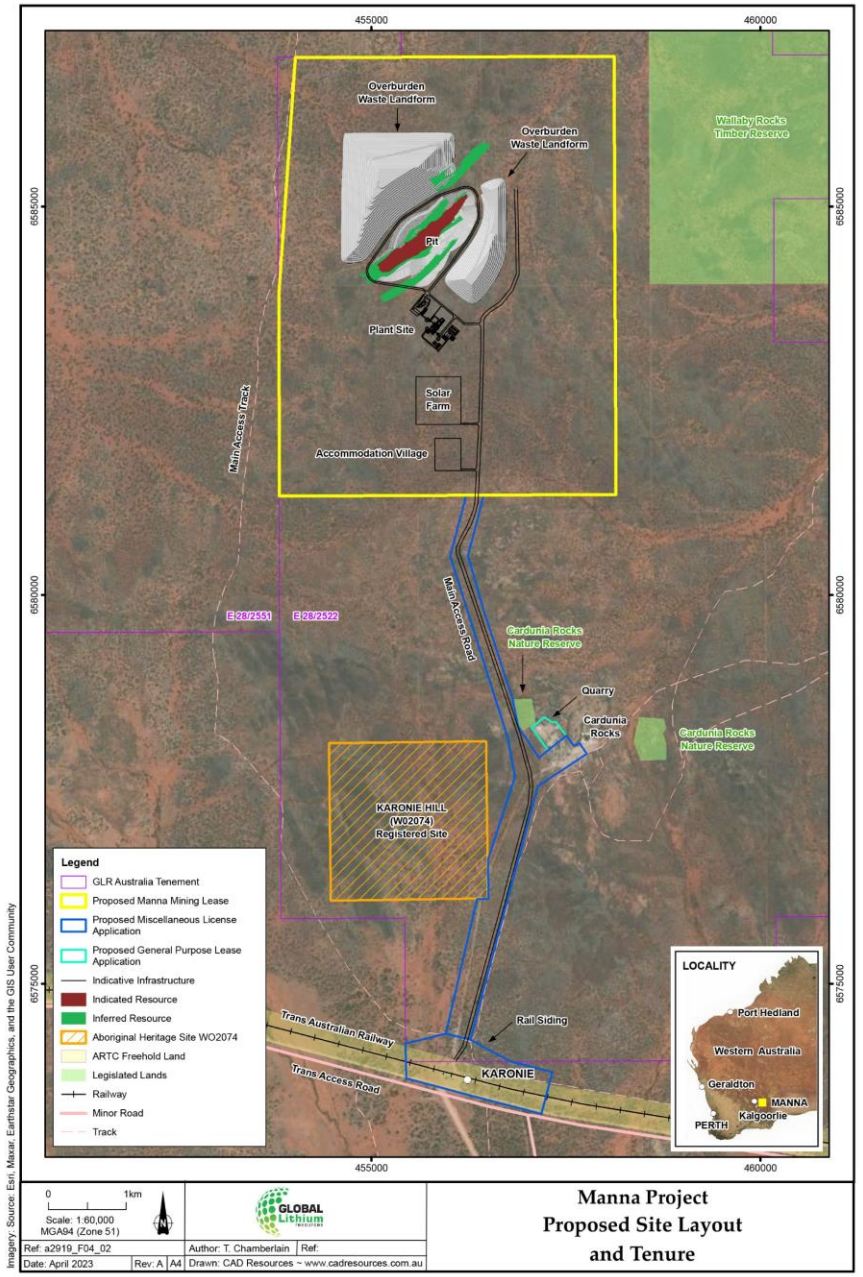
Manna Exploration Upside

- 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



Manna mining lease map[1]

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

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Heritage & Native Title

- Land Access Agreement for Exploration executed with Kakarra Part B[1]
- 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

1. Refer ASX release titled “LAND ACCESS AGREEMENT SIGNED FOR MANNA LITHIUM PROJECT”, 16 June 2023.

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Manna Lithium Project - Regional Expansion

Strategic Investment

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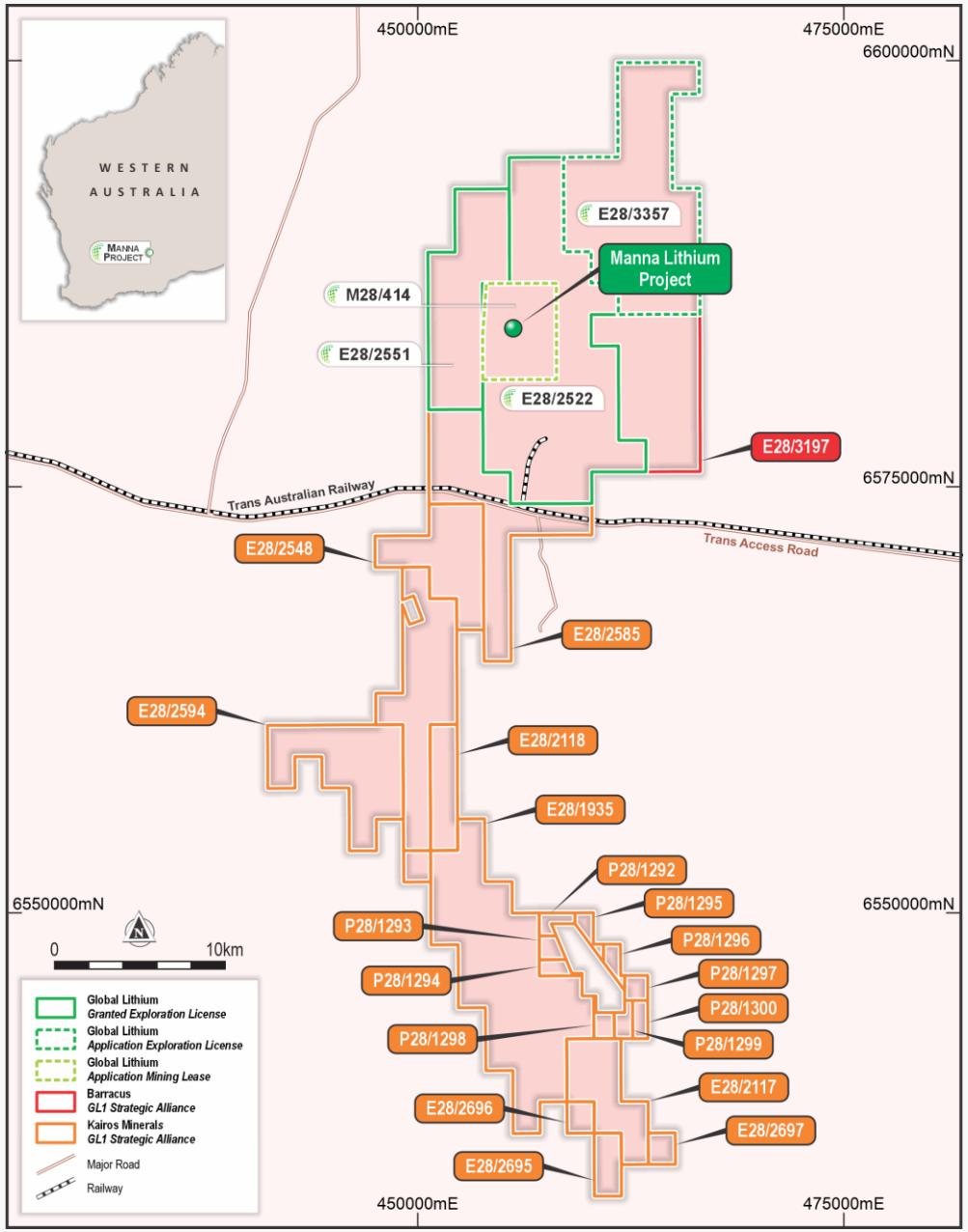
Global Lithium announces multiple acquisitions to significantly expand its regional footprint

- 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.

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

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Near Term Cash Flow Opportunity – Spod Ore Concentrate Project

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- 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

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Definitive Feasibility Study (DFS)

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- 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

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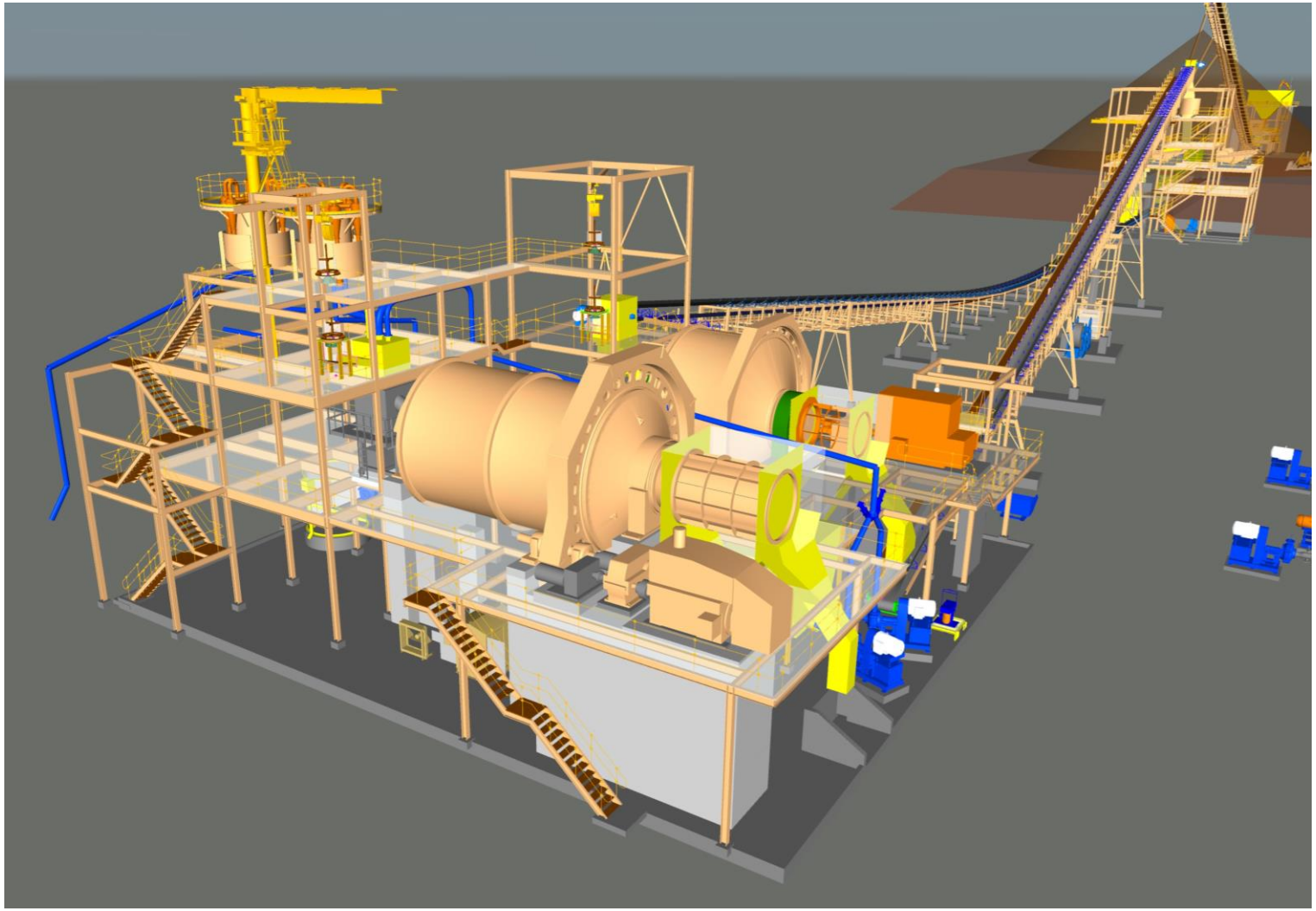

Crushing & Milling Circuit

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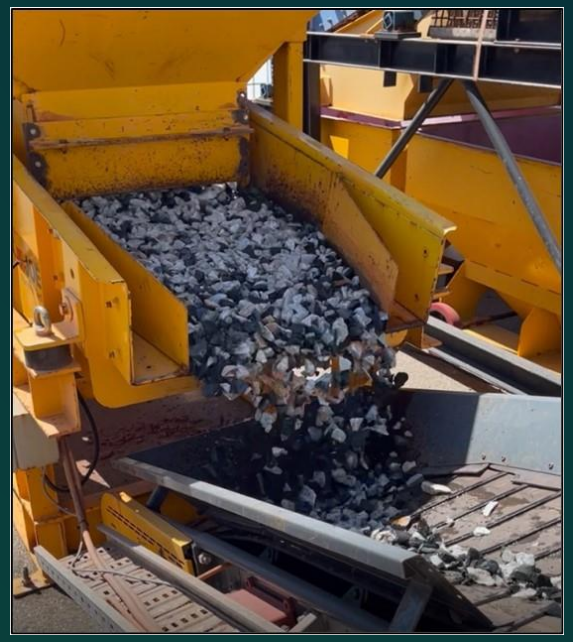
Manna Lithium Project

Initial Ore Sorting Trials Completed

Trials deliver 90% increase in lithium grade[1]

- Excellent visual control between ore (white) and waste (black)
  Test run elevated head grade from 0.88% Li_2O to 1.67% Li_2O
- 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.

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Another Critical Mineral Discovery
Cardunia Rocks REE Project

REE Discovery

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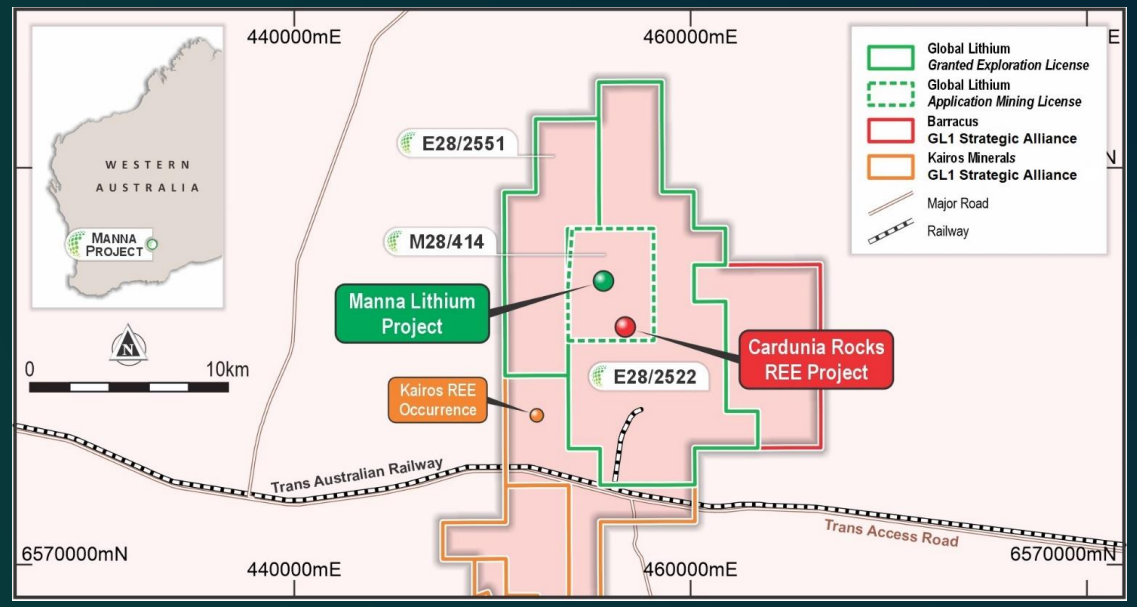
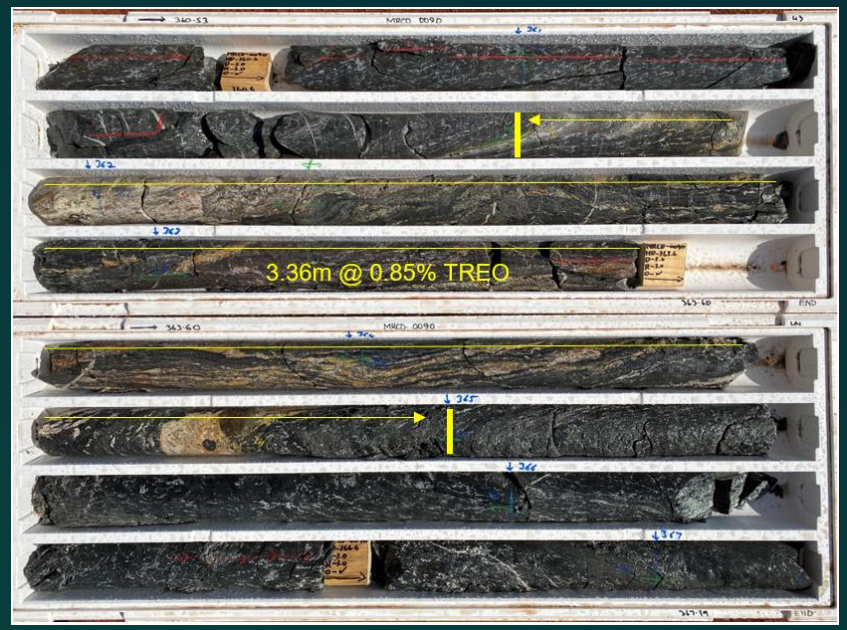
Discovery to be named Cardunia Rocks REE Project[1]

- 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.

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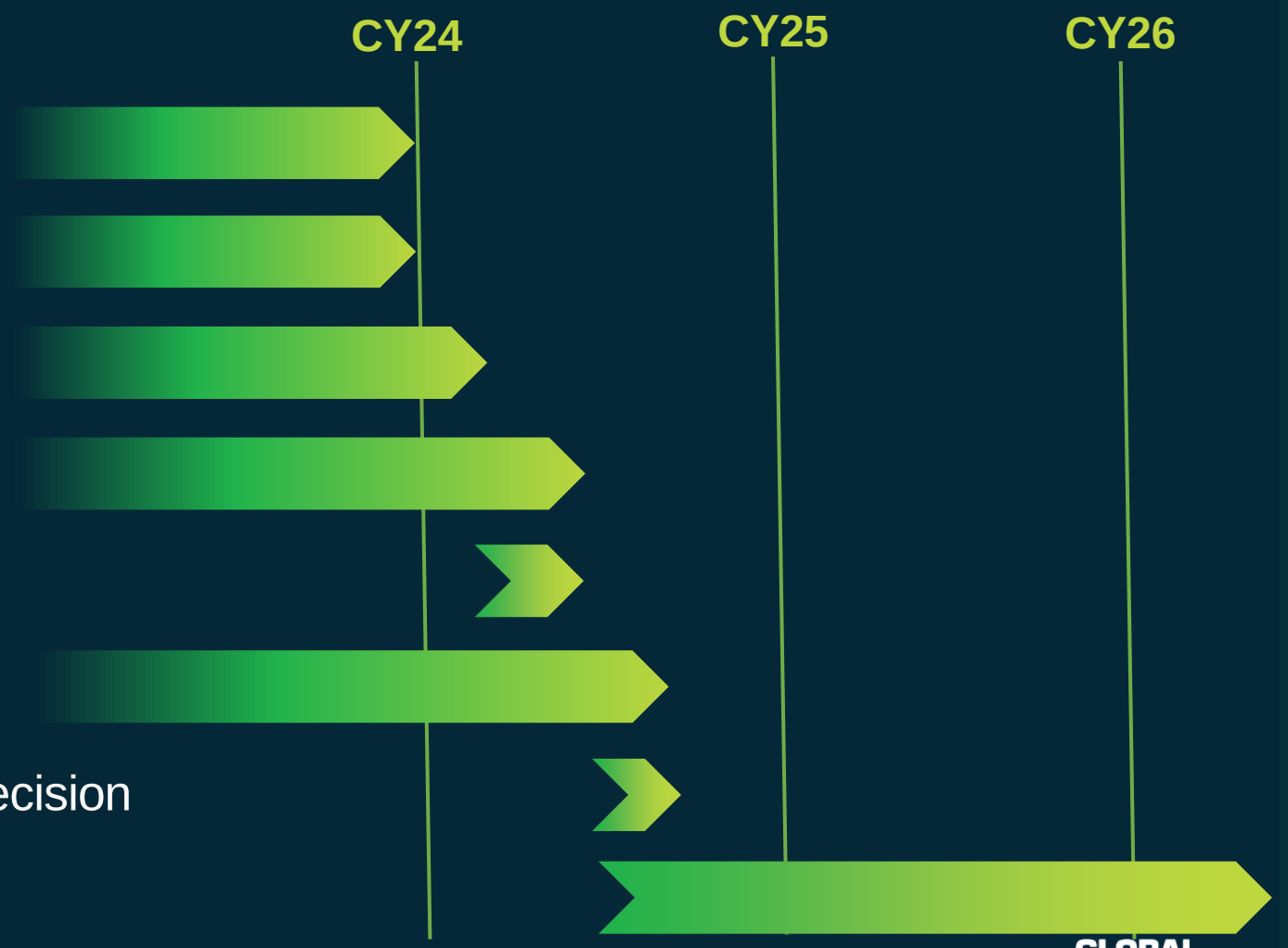
Major Manna Milestones

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.

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100% Owned Project 2

Marble Bar Lithium Project

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Marble Bar Lithium Project

Highly Prospective Geological Setting

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Geology

- Spodumene bearing pegmatite hosted in greenstone and granite contact
- Demonstrates similar geological settings to the nearby Pilgangoora[1] and Wodgina[2] deposits

Resource

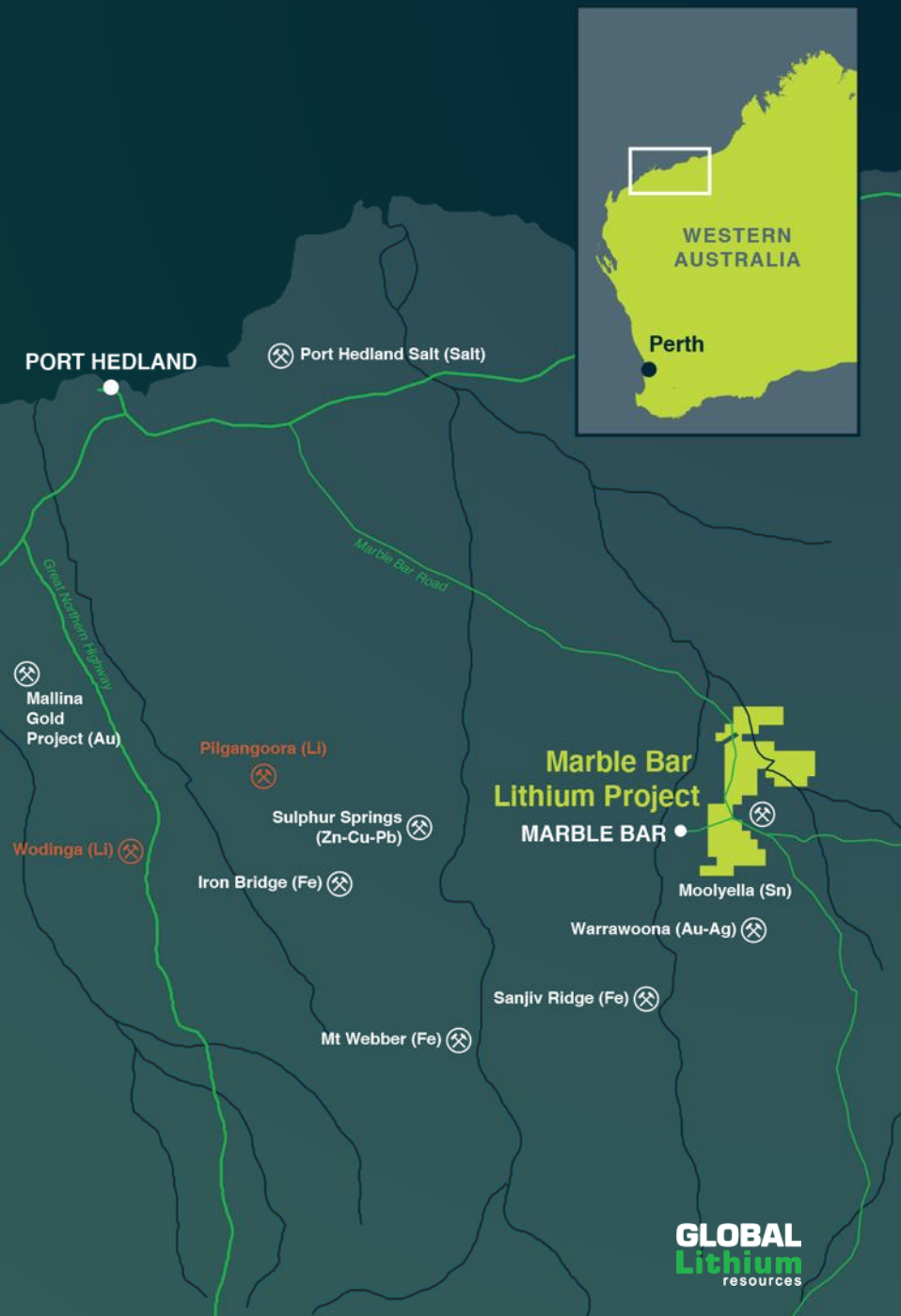
- Inferred Mineral Resource of **18.0Mt @ 1.0% Li_2O**[3]
- Lithium mineralisation in drilling identified over 15km

Significant Upside

- **Highest grade lithium assays delivered to date**[4]
- 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

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Global Lithium – Mineral Resources

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Project Name	Category	Million Tonnes (Mt)	Li_2O%	Ta_2O_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.

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

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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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