

15 September 2023

## Resources Rising Stars Investor Series - Presentation

Lithium exploration and project development company Critical Resources Limited **ASX:CRR** ("Critical Resources" or "the Company") advises of its participation at the Resources Rising Stars Investor Series being held in Brisbane, Sydney and Melbourne during 18 to 20 September 2023.

Managing Director, Mr Alex Cheeseman, has been invited to attend the investor series to discuss and present the Company's projects, the series of events features a group of high-growth resource companies that are highly leveraged to the impending global energy transition. Attached is the presentation that Mr Cheeseman will be speaking to at the investor series.

Attendance is free of charge for all genuine investors, registration is essential.

Dates           Brisbane. Monday, 18 September 2023

Sydney. Tuesday, 19 September 2023

Melbourne. Wednesday, 20 September 2023

Time:           Brisbane. 11.30am to 2.30pm (local time)

Sydney and Melbourne. 3.00pm to 6.00pm (local time)

To register:   <https://resourcesrisingstars.com.au/event1/events> (twilight series)

**This announcement has been approved for release by the Board of Directors.**

-ends-

### For further information please contact

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Managing Director

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### ABOUT CRITICAL RESOURCES LIMITED

Critical Resources is advancing and developing critical metals projects for a decarbonised future. The Company holds a suite of lithium prospects across Ontario, Canada, including Mavis Lake, Graphic Lake, Plaid and Whiteloon Lake. The Company's other projects include a copper project in Oman, and a base metals project in Halls Peak NSW, Australia. The Company's primary focus is the rapid development of its flagship Mavis Lake Lithium Project. Mavis Lake is an advanced exploration project with near-term development potential. The Company completed over 19,500m of drilling in 2022 and has commenced another significant drilling program in 2023. In early 2023, Critical Resources released its maiden JORC Code 2012 Compliant Inferred Mineral Resource Estimate (MRE) for Mavis Lake with 8.0Mt at 1.107% Li<sub>2</sub>O – making Critical Resources just one of two ASX-listed companies with a JORC Code 2012 compliant mineral resource in Ontario. In parallel, the Company has also commenced initial studies that will underpin the transition from explorer to developer.



## **COMPLIANCE STATEMENT**

This announcement contains information regarding the Mavis Lake Mineral Resource Estimate extracted from ASX market announcement dated 5 May 2023 and reported in accordance with the 2012 JORC Code and available for viewing at [criticalresources.com.au](http://criticalresources.com.au). The Company confirms that it is not aware of any new information or data that materially affects the information included in any original announcement and that all material assumptions and technical parameters underpinning the estimates in the original market announcement continue to apply and have not materially changed. This document contains information on the Mavis Lake Lithium Project extracted from ASX market announcements reported in accordance with the 2012 JORC Code and available for viewing at [www.criticalresources.com.au](http://www.criticalresources.com.au). The Company confirms that it is not aware of any new information or data that materially affects the information included in any original ASX market announcement. ASX announcements pertaining to key assays are as follows: Multiple thick lithium intercepts continue at Mavis Lake dated 11 September 2023, High Grade Intercepts Extend Mavis Lake Swell Zone dated 21 August 2023 and Assay Results confirm 74.4m at 1.18% Li<sub>2</sub>O at Mavis Lake dated 24 July 2023.

## **FORWARD LOOKING STATEMENTS**

This announcement may contain certain forward-looking statements and projections. Such forward looking statements/projections are estimates for discussion purposes only and should not be relied upon. Forward looking statements/projections are inherently uncertain and may therefore differ materially from results ultimately achieved. Critical Resources Limited does not make any representations and provides no warranties concerning the accuracy of the projections and disclaims any obligation to update or revise any forward-looking statements/projects based on new information, future events or otherwise except to the extent required by applicable laws. While the information contained in this report has been prepared in good faith, neither Critical Resources Limited or any of its directors, officers, agents, employees or advisors give any representation or warranty, express or implied, as to the fairness, accuracy, completeness or correctness of the information, opinions and conclusions contained in this announcement.



ASX : CRR

# Lithium Supply for North America

September 2023





# Corporate Overview

Lithium-focused project development company

# Strategic Highlights

## The Right Place

### Exceptional location and high-growth market

- Project location and existing infrastructure provides significant operational and financial advantages
- Supportive Provincial and Federal Governments – plus potential access to US Government support
- Unprecedented investment into North American electric vehicle supply chains

## The Right Project

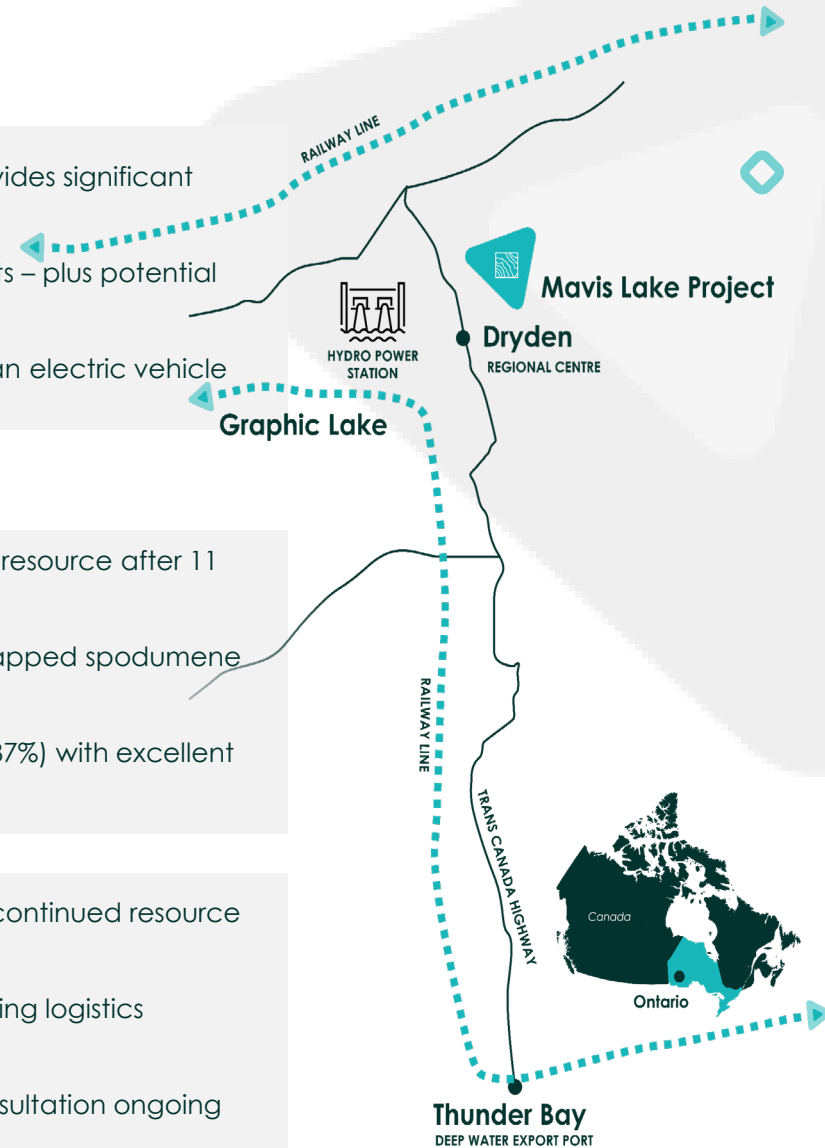
### 8Mt @ 1.07% Li<sub>2</sub>O, growth potential and excellent metallurgical properties\*

- Cost effective exploration delivered a maiden resource after 11 months of drilling
- Resource growth drilling continues, multiple mapped spodumene bearing pegmatites yet to be drill tested
- Met testwork delivered high recoveries (up to 87%) with excellent concentrate grades (5.9-6.4% Li<sub>2</sub>O)\*

## The Right Pathway

### Clear pathway to advance the Project and deliver lithium products to market

- Aggressive project development activity with continued resource growth
- Immediate access to global markets from existing logistics infrastructure (road, rail and port)
- Environmental monitoring and community consultation ongoing
- Development Team leveraging lessons learnt from previous hard rock lithium projects

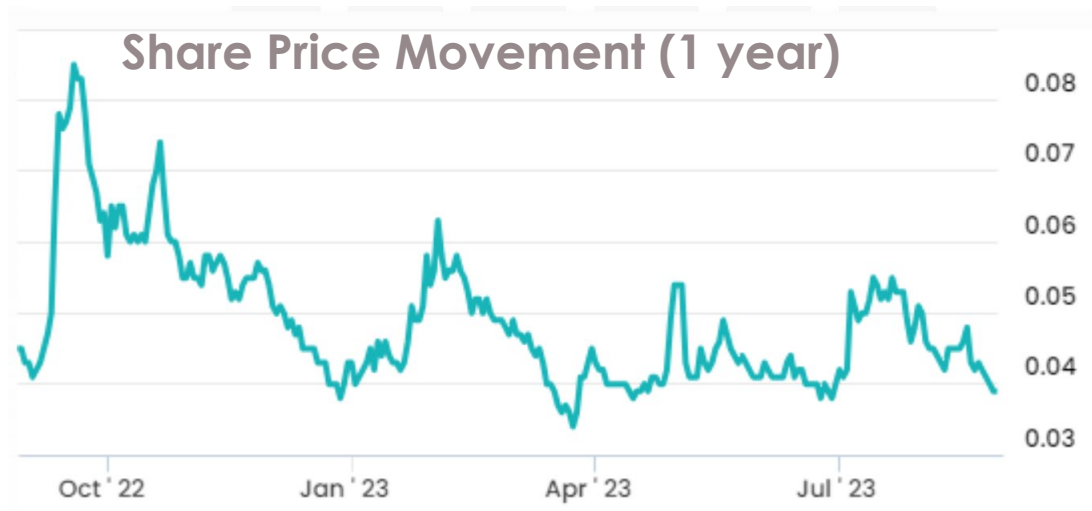




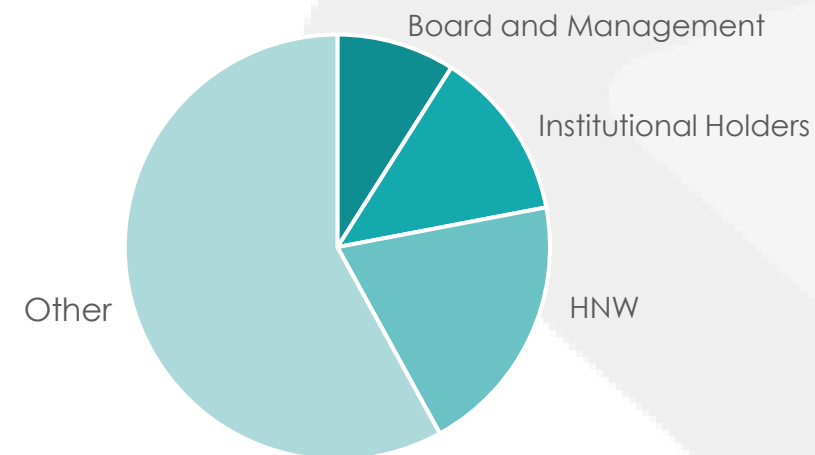
# Corporate Snapshot

## Capital Structure

Share Price (5 September 2023)	\$0.041
Shares	1.78b
<b>Market Cap. (undiluted)</b>	<b>\$72.8m</b>
Cash (30 June 2023 + gross funds raised 8 Aug 2023)	\$12.1m
Options (47m - \$0.04 strike – expiry 3 Dec 24)	\$1.88m
Performance Rights	17m



## Shareholder Makeup



## Focus Areas for Value Creation

**Resource Growth** through continued drilling and exploration of high-confidence targets  
+  
**Development** activities in parallel with Resource Growth  
+  
**Advance** the Project **into Production** diligently and at pace in order to capitalise on a significant supply/demand gap

# Board and Management



**Alex Cheeseman** Managing Director

20+ years leadership and management across projects and operations. 7 years dedicated to the lithium industry (former GM Altura Mining).

Extensive experience building and managing high-performance teams operating in multiple jurisdictions.



**Robert Martin** Non-Executive Chairman

A successful businessman and accomplished company Director with over 25 years' experience across mining and mining services.

Significant experience in capital markets and corporate strategy. Chairman of ASX:BM8, ASX:EQN and ASX:PLN, NED of ASX:PKD and TSX:VCT.



**John Markovic** Non-Executive Director

Highly successful businessman, with proven history in value creation.

Strategic expertise in marketing, financial planning and risk management.

Track record in achieving high-growth for shareholders.



**Anthony Tse** Strategic Advisor

Early pioneer and veteran of the lithium industry.

Former CEO of Galaxy/Alkem – now the 5th largest lithium producer.

Extensive strategy, management and investment experience across the battery value chain globally.



**Harry Spindler** CFO and CoSec

An accomplished corporate professional and certified CA.

Over 15 years experience in ASX listed CoSec/CFO roles.

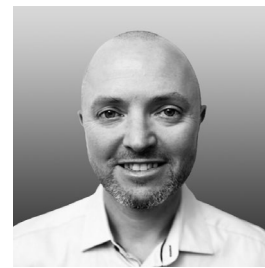
Considerable experience with M&A, capital raising and ASX compliance.



**Troy Gallik** Exploration Manager (Exploration CP)

Professional Geologist with 8 years of grass roots exploration and field work across Ontario, targeting gold and lithium.

Designed and managed the exploration program that delivered a Maiden JORC Code 2012 Compliant lithium resource (8Mt @ 1.07% Li<sub>2</sub>O), 12 months from first drill hole.



**Stewart Bailey** Study Manager

Civil Engineer with over 15 years' experience in greenfield and brownfield mining project development and delivery.

6 years lithium experience (Altura Mining/Covalent Lithium).

Key experience with process plant (DMS and flotation) project delivery, start-up and de-bottlenecking.



**Brady Jenkins** Principal Process Engineer (Met. CP)

Metallurgist and Member of AusIMM, over 20 years project and operations experience, 5 years dedicated to lithium processing.

Former Processing Superintendent at Altura Mining responsible for operational readiness, process plant commissioning and early-stage optimisation.



# The North American Lithium Opportunity

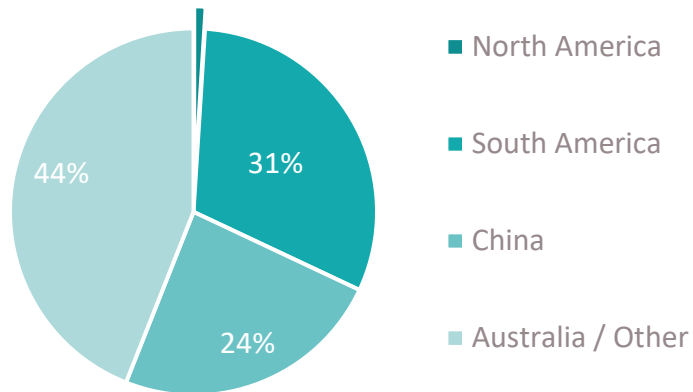
From 47 GWh of battery capacity in 2022 to 650 GWh of battery capacity in 2035 – Source *BMI*



# Massive Onshoring of the USA/Canada Battery Supply Chain

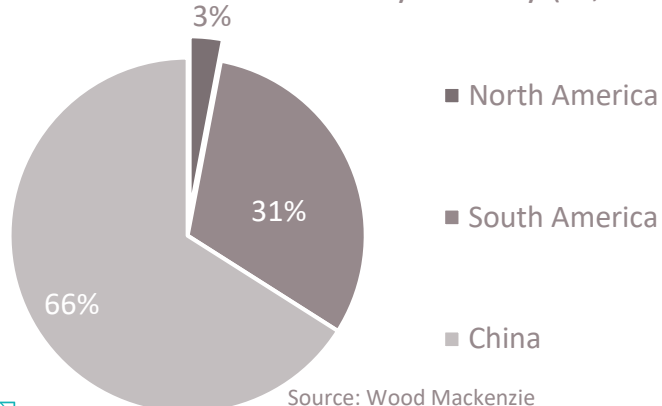
Security, Geopolitical and Environmental Concerns Drive The Need For US Domestic Production

2022 Lithium Extraction by Country (Kt, LCE)



Source: Wood Mackenzie

2022 Lithium Conversion by Country (Kt, LCE)



Source: Wood Mackenzie

IRA Program offering US\$370B in incentives for Domestic Critical Mineral Production

## DOE Clean Vehicle Tax Credit Critical Minerals (US\$3,750), Battery Components (US\$3,750)

Proportion of critical mineral content or battery cell manufacture extracted or processed:

- in the US
- with a FTA with the US
- recycled in North America

### Critical Minerals Proportion minimum requirements:

- 2024: 50%
- 2025: 60%
- 2026: 70%
- 2027 (onwards): 80%

### Battery Components minimum requirements:

- 2024: 60%
- 2025: 60%
- 2026: 70%
- 2027: 80%
- 2028: 90%
- 2029 (onwards): 100%

## Advanced Manufacturing Credit

### Eligibility of Investment Tax Credit and Production Tax Credit

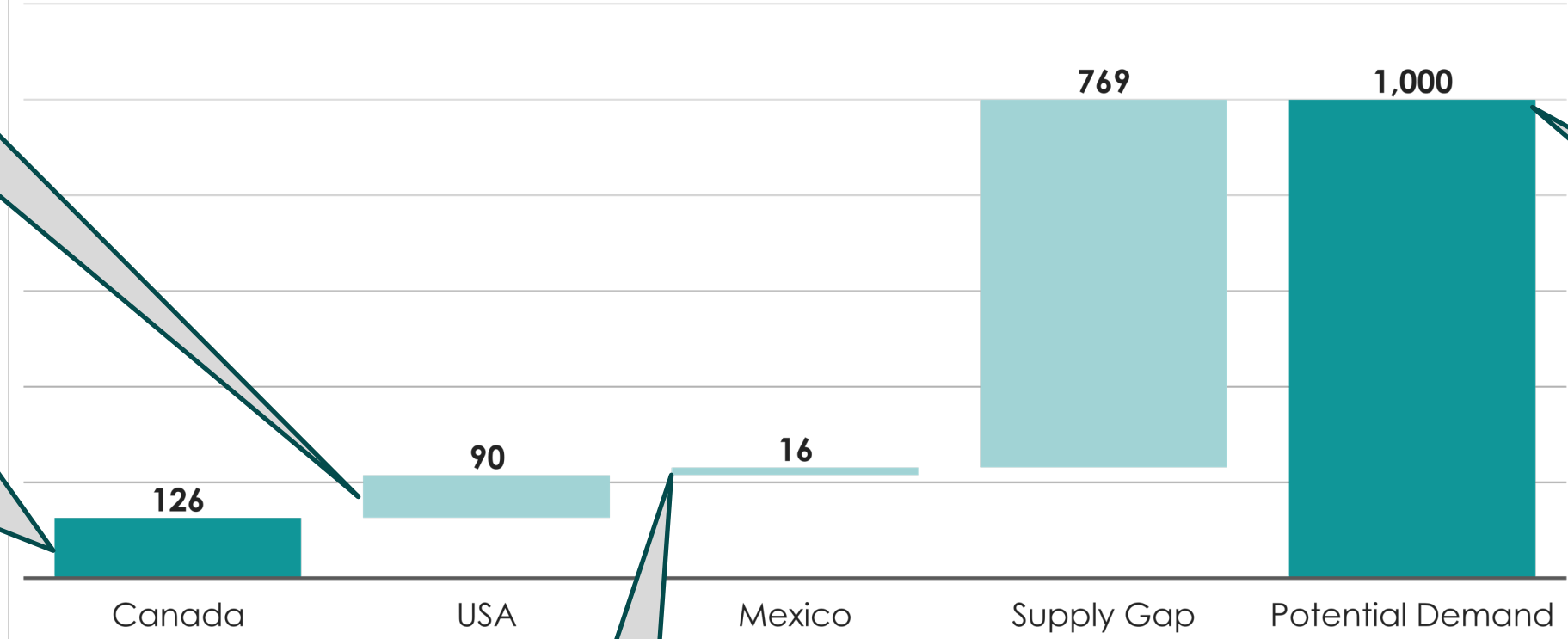
"Advanced manufacturing credit" of 10% of the costs incurred to produce the mineral for any producers of critical minerals that currently mine or process critical minerals in the US

# New Raw Material Supply is Essential to Domestic EV Production

Significant amount of funding available to support to build mid-stream materials, downstream cell production and EV manufacturing capacity with a risk of significant under-utilization if insufficient local supply of raw materials

## Significant supply gap if potential 1Mt LCE demand in 2030 to be met by North American supply

Source: Wood Mackenzie (December 2022)



Tesla internal forecast requires 1Mt LCE for 2030 production targets

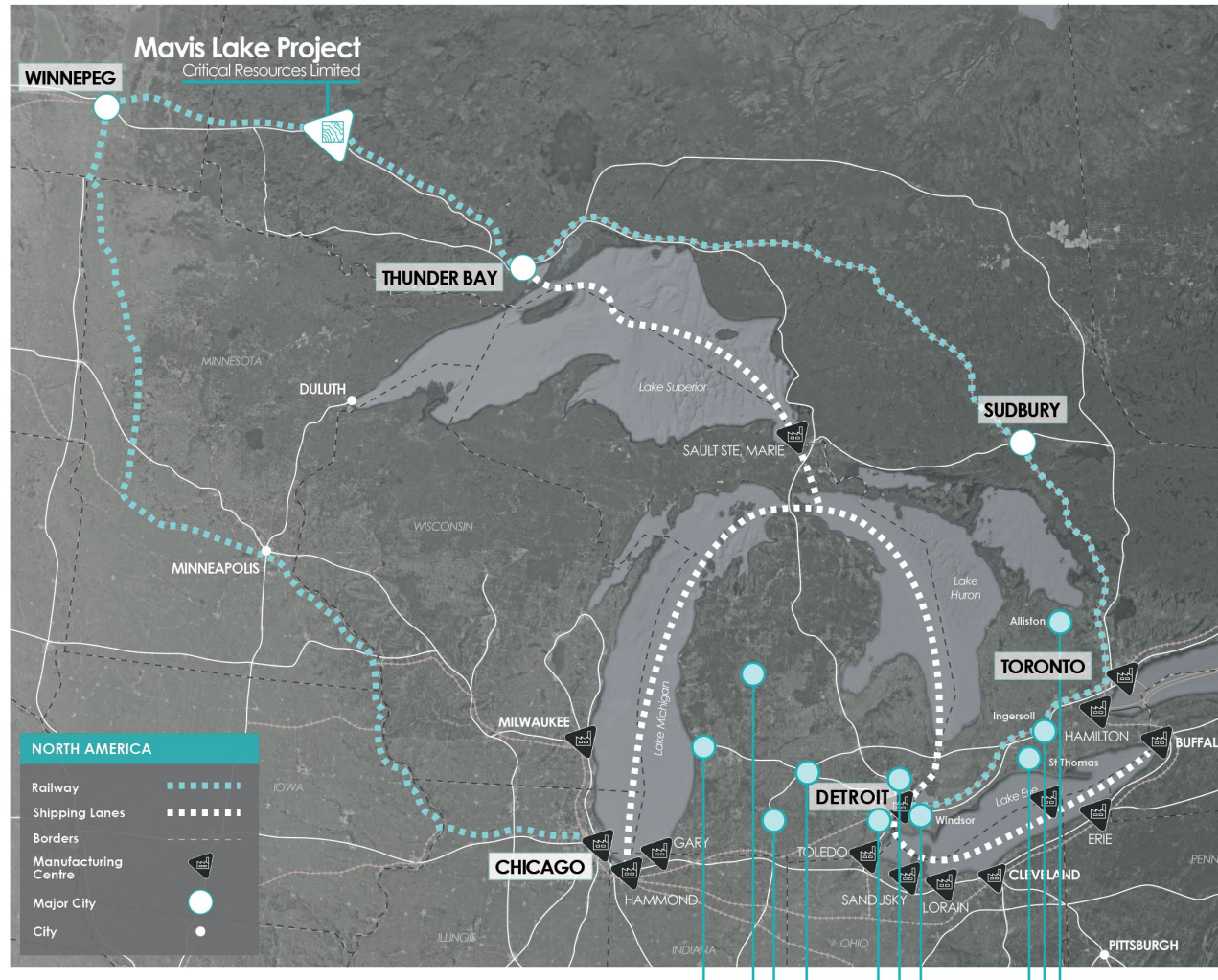
Source: Tesla 2023 Investor Day (1 March 2023)



?

STELLANTIS

# From Mavis Lake to Michigan



## Stellantis/LG

\$5B (plus billion dollar State and National tax incentives) to build battery facility at Windsor, Ontario

STELLANTIS



## VW/Canadian Government

\$20B battery gigafactory, St Thomas, Ontario



## GM

\$5B Investment upgrading CAMI plant for EV production, Ingersoll, Ontario



## Honda

\$1.4B to upgrade EV and hybrid manufacturing capacity, Alliston, Ontario



## GM

\$4b major assembly plant EV conversion, Orion Township



## Ford

\$3.5b battery manufacturing Facility, Marshall



## LG ES / GM

\$2.6b Ultium JV battery manufacturing plant, Lansing



## Gotion High-Tech

\$2.56 EV components battery plant, Big Rapids



## LG ES

\$1.7b battery plant capacity expansion, Holland



## One

\$1.6b battery manufacturing campus, Van Buren Township



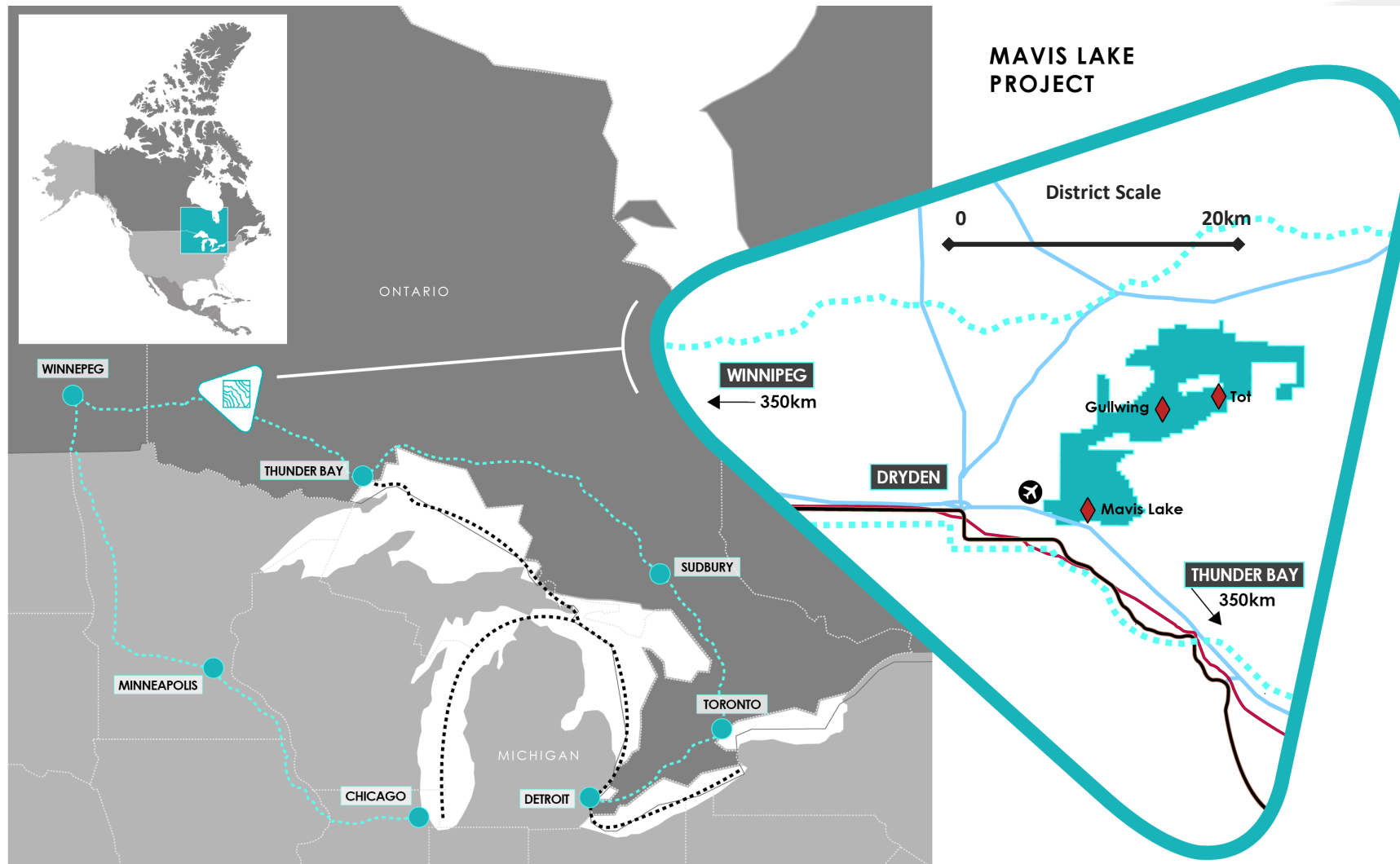


# Mavis Lake Project

One of only two ASX-listed companies to hold a JORC Code 2012 Compliant Lithium Mineral Resource Estimate in Ontario Canada



# Project Location



## LEGEND

- |                    |                    |                   |                               |                      |
|--------------------|--------------------|-------------------|-------------------------------|----------------------|
| — Country Border   | — Trans-Canada Hwy | — Shipping Lanes  | — Natural Gas Pipeline        | ◆ Pegamatite Cluster |
| - - - State Border | - - - Railway      | - - - Hydro Lines | - - - Mavis Lake Project Area | ✈ Airport            |



# Project Highlights

## JORC Compliant Resource

- Maiden MRE - **8.0Mt at 1.07% Li<sub>2</sub>O\*** defined after only 11 months of drilling
- Consistent **high-grade intercepts**
- Targeting first **Resource upgrade in H1 2024**

## Significant Upside Potential

- Multiple spodumene-bearing outcrops **yet to be drill tested**
- **Expanded project area** introduced the Gullwing, Tot, Little Wing and Drope LCT pegmatite system
- Significant mineralisation **swell identified in July 2023\***

## Development Focussed

- Excellent metallurgical properties, **simple flowsheet** = low technical risk
- **High grade, low-impurity** concentrate produced\*
- Development **studies** and environmental monitoring **underway**

## Exceptional Location

- Residential operating concept = **significant cost savings**
- Pathway to access **hydro-electric power and natural gas**
- Direct access to **road, rail and port** infrastructure
- **Established logistics routes** to major automotive/battery facilities
- **Over US\$47Bn** of battery/EV specific investment within the region



# Systematic and Robust Exploration

## Year on Year Growth potential

**Resource Backed Project** - 8Mt @ 1.07% Li<sub>2</sub>O Inferred Resource with multiple mapped, spodumene bearing pegmatites yet to be drill tested

**Main Zone Remains Open** - current Resource remains open laterally and at depth with a significant swell with multiple intercepts ranging from 40-74m\*

**Cost Effective Resource Definition** - AUD\$1.02 spent in exploration per tonne of Mineral Resource defined\*\*

**Focussed on continued Growth** - drilling continues with additional field works ongoing to develop and refine additional high-confidence drilling targets across the entire Project area

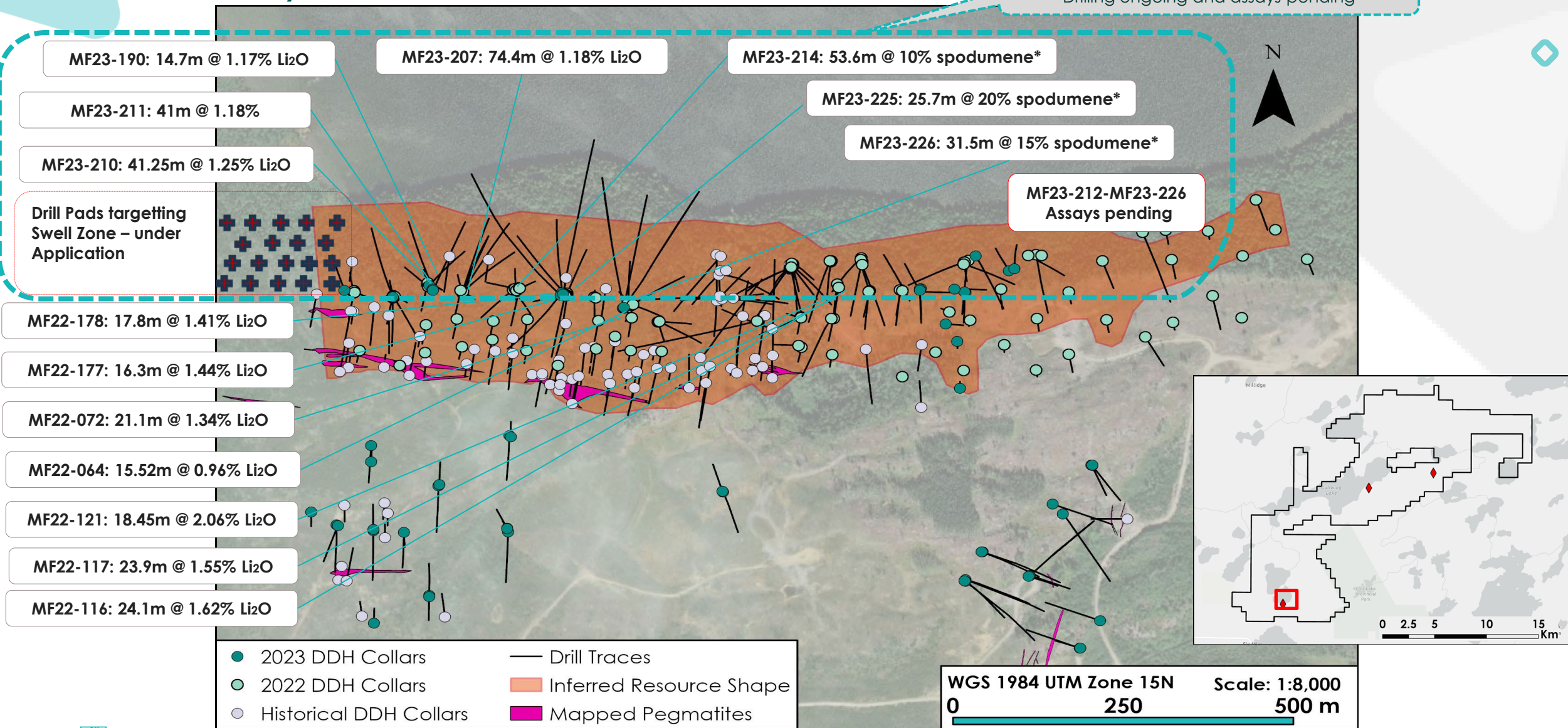
**Results Pending** - further assay results pending, every new drill hit adds to a future Resource upgrade





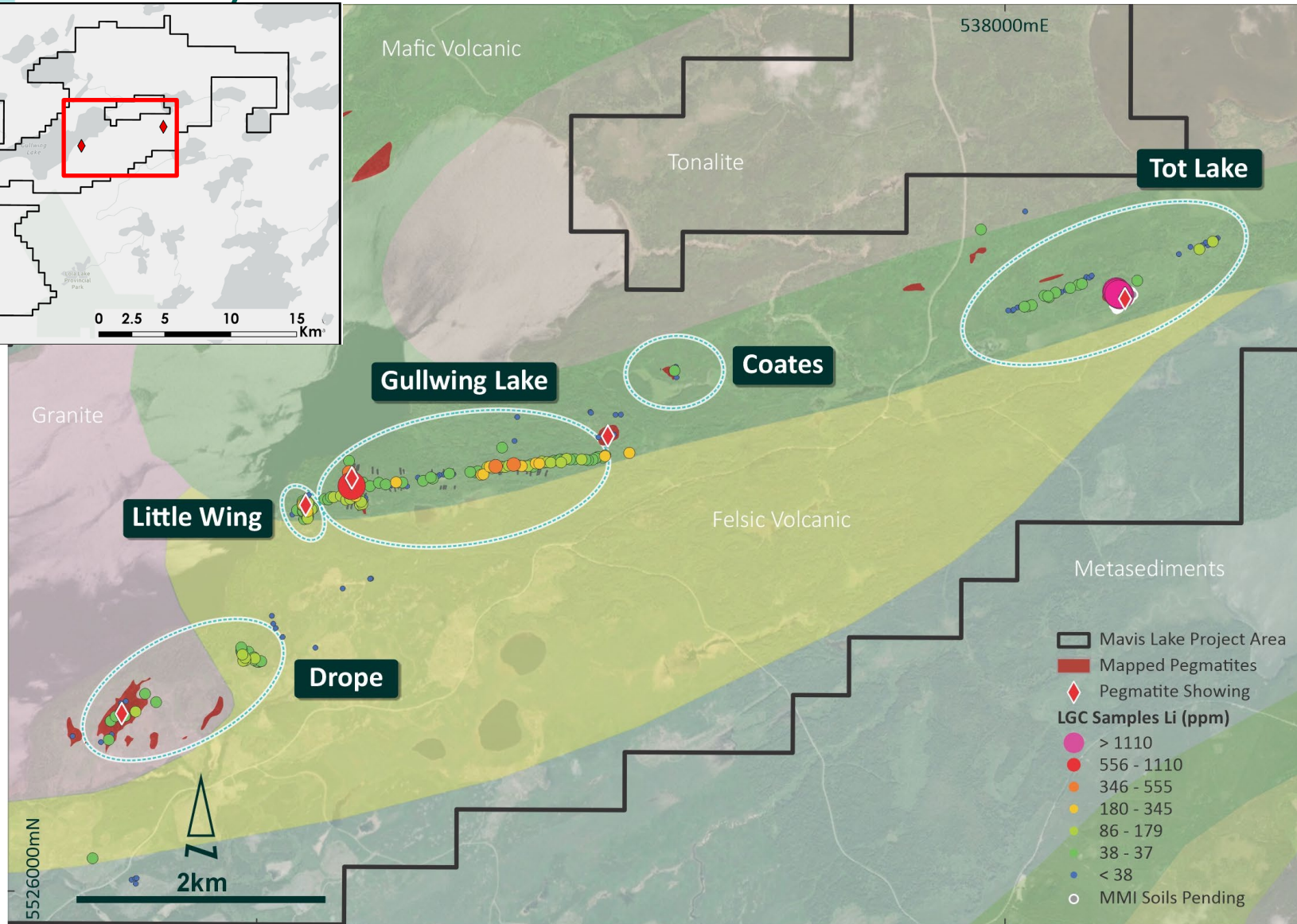
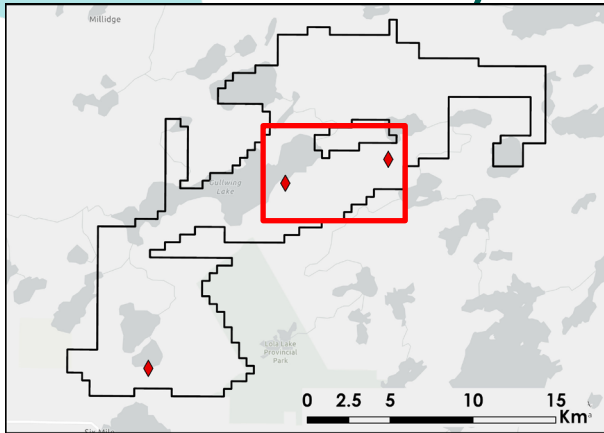
# Pathway to Resource Growth

Results **not included** in Maiden MRE  
Drilling ongoing and assays pending





# Pathway to Resource Growth



**Continued Drilling at Mavis Lake Main Zone** – Extension drilling to immediate increase tonnage over the current Resource, every drill hit adds tonnage

**Targeting the Swell Zone** – new drill pads to target Swell Zone to the West under application

**Step-out Drilling adjacent to Main Zone** – Multiple mapped spodumene bearing pegmatites yet to be drill tested,

**Target Development at Northern prospects** – Geophysics and soils program from Little Wing to Tot

**Permits under application** – Initial drill pad permits for northern prospects under application

**Continued Prospecting** – Field crews continue prospecting and target generation across the Project Area

**Resource Upgrade Scheduled** – Drilling data/results from April 2023 onwards to support future Resource upgrade, every drill hit adds tonnage

Corporate Presentation 2023 |

# Infrastructure Rich

## Regional base enables low-cost operations

**Mining-centric Workforce** - five operating mines within the immediate area, with Provincial and Federal support for Critical Minerals

**Residential Operation** - Lower cost operations with the opportunity to offer family friendly employment opportunities to attract and retain future workforce

**Export Logistics** - national highway and rail network provide direct access to deepwater ports and US automotive manufacturing hubs

**Energy supply** - Hydro-power transmission lines, and gas pipeline surround the property

**Existing Support Base** - logistics, schools, hospital, regional airport, supplies and support all drawn from Dryden, provides significant cost advantages





# Permitting and Approvals

## Monitoring and documenting the Environment

**Baseline Environmental Assessment Completed** - field based (Oct 22) and desktop (Dec 22-Mar 23) environmental assessment completed, confirming the forward work plan for future studies, monitoring and permitting

**Environmental Monitoring Underway** - springtime monitoring of surface water run-off field works completed, fisheries and further hydrology monitoring underway. Extensive monitoring program commitments for 2023 and 2024

**1<sup>st</sup> Nations Agreement in Principle** - signed with Wabigoon Lake Ojibway Nation (WLON) in June 2023, setting the foundation for a future IBA and informed consent for the development of the Mavis Lake Lithium Project

**Dedicated Effort to Engage and Inform Communities** - recruitment of a senior Community Relationship Coordinator with over 20+ years First Nations engagement and relationship development





# Development Studies Delivering Results

## Staying a step ahead on the pathway to production

**Excellent Metallurgy** - simple Heavy Liquid Separation (HLS) delivered spodumene concentrate up to 6.4% Li<sub>2</sub>O with very low Fe<sub>2</sub>O<sub>3</sub>. Optimisation work (HLS and flotation) delivered recoveries up to 87%.\*

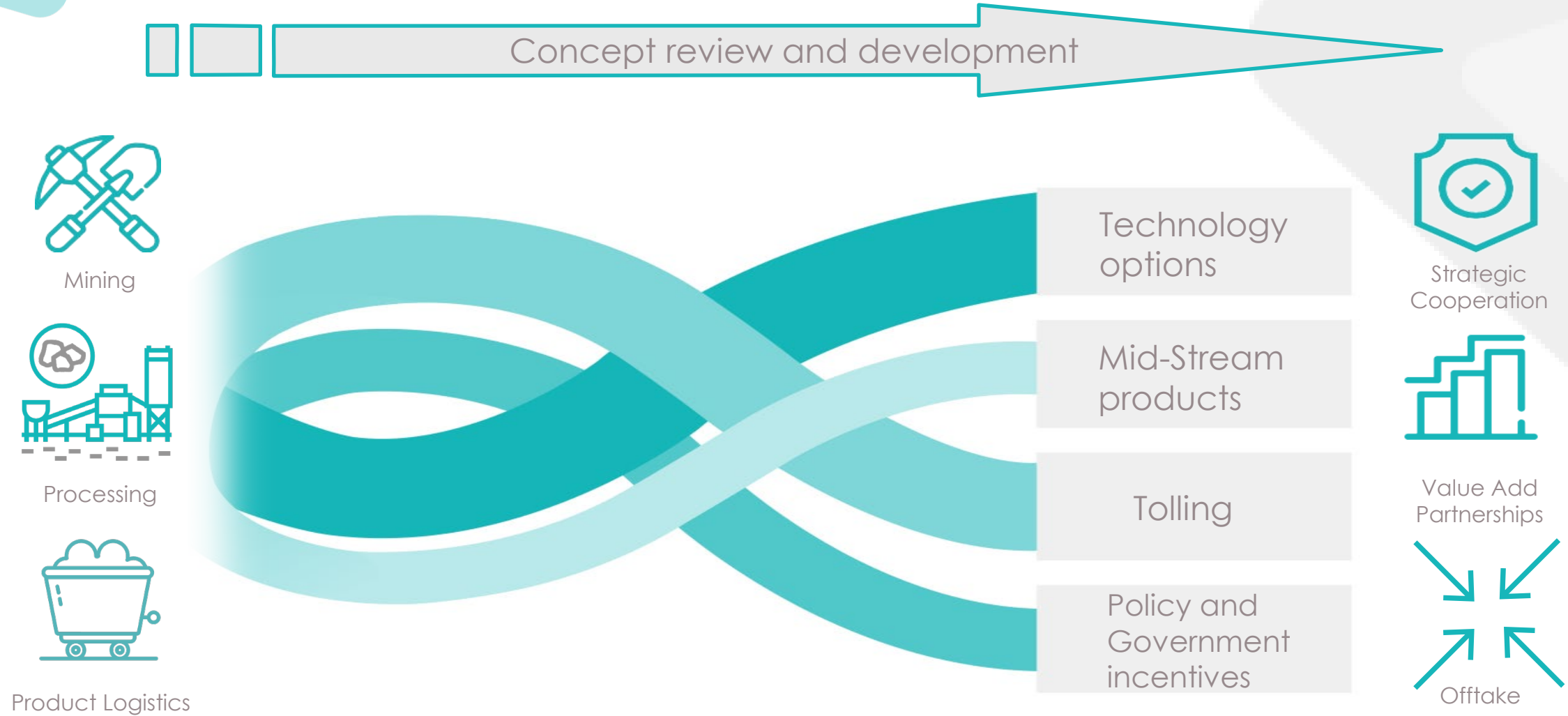
**Development Studies Underway** - studies and assessments of project economics, logistics options assessment, and flow sheet development have commenced.

**Extensive Met Test work Planning** - test work program to allow detailed design and engineering being planned, underpinned by the known Resource, raw material collection in 2023 for commencement in Q1 2024

**Battery Grade Chemical Test work** - planning under way to test end to end yield and purity of lithium chemicals produced from Mavis Lake raw material.



# Pathway to Lithium Chemical Supply



# Building Momentum – Significant Growth

## Catalysts for Value Creation

### Resource Growth

- Main Zone extension and infill
- Geophysics and target development (Northern Prospects)
- Initial drill testing Northern Prospects
- Prospecting and target generation
- Resource Estimation and upgrade

### Project Development

- Environmental monitoring
- Feasibility-level metallurgical test-work
- Studies (technical and economic)
- Community engagement

### Corporate Efforts

- Partnering and collaboration assessments
- Downstream chemical production concept development
- Government engagement

H2 2023

H1 2024

H2 2024





**Critical  
Resources**  
Limited

**Alex Cheeseman**

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# Disclaimer

**Summary Information** This document contains a summary of information about Critical Resources Limited ("Critical Resources" or "the Company") and its activities that is current as at the date of this document unless otherwise stated. The information in this document is general in nature and does not contain all the information which a prospective investor may require in evaluating a possible investment in Critical Resources or that would be required in a prospectus or a product disclosure statement prepared in accordance with the Corporations Act 2001 or the securities laws of any other jurisdiction. The information in this document should be read in conjunction with the Company's other periodic and continuous disclosure announcements lodged with the ASX.

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**Financial data** All amounts are in Australian Dollars (AUD) unless otherwise indicated. A number of figures, amounts, percentages, estimates, calculations of values and fractions in this presentation are subject to the effect of rounding. Accordingly, the actual calculation of these figures may differ from the figures set out in this presentation. Readers should note that this presentation includes unaudited financial information in relation to dollar spent in exploration per tonne of Mineral Resources. Readers should note that this information has not been audited and is based on management estimates and not on financial statements prepared in accordance with applicable statutory requirements. Accordingly, readers should treat this information with appropriate caution. This information is for illustrative purposes only. Readers should also be aware that spend per mineral resources financial data included in this presentation are "non-IFRS financial information" under ASX Regulatory Guide 230 (Disclosing non-IFRS financial information), nor does it purport to be. This non-IFRS financial information financial measures do not have a standardised meaning prescribed by Australian International Financial Reporting Standards (AIFRS) or the Australian Accounting Standards (AAS) and, therefore, may not be comparable to similarly titled measures presented by other companies, nor should they be construed as an alternative to other financial measures determined in accordance with AIFRS. Moreover, the disclosure of such non-IFRS financial measures in the manner included in this Presentation and the announcement to which it is attached may not be permissible in a registration statement under other securities acts. Although the Company believes that these non-IFRS / non-GAAP financial measures assist in providing additional meaningful information to readers in measuring the financial performance and condition of the Company's business and underlying drivers, readers are cautioned not to place undue reliance on any non-IFRS / non-GAAP financial measures included in this Presentation and the announcement to which it is attached.

**Cautionary Note – VISUAL ESTIMATES** The Company stresses that the reported visual estimated percentages in Table 1 relate specifically to the abundance of spodumene logged in the drill core and is not estimated lithium grade for the interval. In relation to the disclosure of visual mineralisation, the Company cautions that visual estimates of mineral abundance should never be considered a proxy or substitute for laboratory analysis where concentrations or grades are the factor of principal economic interest. Visual estimates also potentially provide no information regarding impurities or deleterious physical properties relevant to valuations. Laboratory assay results are required to determine the widths and grade of the visible mineralisation reported in preliminary geological logging. The Company will update the market when laboratory analytical results become available. The reported intersections are down hole measurements and are not necessarily true width. Descriptions of the mineral amounts seen and logged in the core are qualitative, visual estimates (they are listed in order of abundance of estimated combined percentages). Quantitative assays will be completed by Activation Lab.

**JORC Code** It is a requirement of the ASX Listing Rules that the reporting of exploration results, ore reserves and mineral resources in Australia comply with the Joint Ore Reserves Committee's Australasian Code for Reporting of Mineral Resources and Ore Reserves ("JORC Code"). Investors outside Australia should note that while reporting in this document complies with the JORC Code, they may not comply with the relevant guidelines in other countries. Information contained in this document describing mineral deposits may not be comparable to similar information made public by companies subject to the reporting and disclosure requirements of Canadian or US securities laws.

**Acceptance** By attending a presentation or briefing, or accepting, accessing or reviewing this document you acknowledge, accept and agree to the matters set out above.

**Authorisation** this document has been authorised for release by the Company's Board of Directors.

# Exploration Disclosure

## COMPLIANCE STATEMENT

This document contains information relating to Exploration Results in respect of the Mavis Lake project extracted from ASX market announcements reported previously and published on the ASX platform on those dates noted below.

The Company confirms that it is not aware of any new information or data that materially affects the information included in the original market announcement and that all material assumptions and technical parameters underpinning the estimates in the original market announcement continue to apply and have not materially changed.

- Drill Hole MF22-177 refer to ASX announcement dated 27 March 2023
- Drill Hole MF22-178 refer to ASX announcement dated 27 March 2023
- High grade low impurity Spodumene concentrate produced 9 February 2023
- First Concentrate Produced from Mavis Lake dated 23 January 2023
- Excellent Results from Metallurgical Test Work dated 3 April 2023
- Drill Hole MF22-121 refer to ASX announcement dated 24 October 2022
- Drill Hole MF22-116 refer to ASX announcement dated 13 September 2022
- Drill Hole MF22-117 refer to ASX announcement dated 13 September 2022
- Drill Hole MF22-64 refer to ASX announcement dated 16 June 2022
- Drill Hole MF22-72 refer to ASX announcement dated 21 July 2022
- Drill Hole MF23-207 refer to ASX announcement dated 24 July 2023
- Drill Hole MF23-190 refer to ASX announcement dated 27 March 2023
- Drill Hole MF23-210 refer to ASX announcement dated 21 August 2023
- Drill Hole MF23-211 refer to ASX announcement dated 21 August 2023
- Drill Hole MF23-214 refer to ASX announcement dated 11 September 2023
- Drill Hole MF23-225 refer to ASX announcement dated 11 September 2023
- Drill Hole MF23-226 refer to ASX announcement dated 11 September 2023

This document contains information relating to Exploration Results in respect of the Gullwing-tot Lakes project extracted from ASX market announcements reported previously and published on the ASX platform on 20 December 2022, 29 December 2022 and 17 July 2023. The Company confirms that it is not aware of any new information or data that materially affects the information included in the original market announcement and that all material assumptions and technical parameters underpinning the estimates in the original market announcement continue to apply and have not materially changed.

All announcements are available for viewing at the Company's website [www.criticalresources.com.au](http://www.criticalresources.com.au).

# Mineral Resource Estimate

## COMPLIANCE STATEMENT

This document contains information relating to the Mineral Resource estimate for the Mavis Lake Lithium Project is extracted from the Company's ASX announcement dated 5 May 2023. The Company confirms that it is not aware of any new information or data that materially affects the information included in the original announcement and that all material assumptions and technical parameters underpinning the Mineral Resource estimate continue to apply.

The Mavis Lake MRE includes all applicable drilling results up to and including 29 March 2023.

MRE has been reported at a cut-off grade of 0.3% Li<sub>2</sub>O and open-pit mining scenario. Bulk Density of 2.8 has been used for mineralised pegmatite. Estimation has been completed using inverse distance weighting. Resource classification is according to the JORC Code Mineral Resource categories

All announcements are available for viewing at the Company's website [www.criticalresources.com.au](http://www.criticalresources.com.au).

JORC Classification	Li <sub>2</sub> O Cut-Off grade (%)	Tonnage (Mt)	Li <sub>2</sub> O (%)
Inferred	0.3	8.0	1.07