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# INVESTOR PRESENTATION

**BENCHMARK MINERALS WORLD TOUR**

**JANUARY 2024**

Building the pre-eminent vertically  
integrated **Lithium** business in  
Ontario, Canada

**ASX | GT1**

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# INDIGENOUS PARTNERS ACKNOWLEDGEMENT

**We would like to say Gchi Miigwech to our Indigenous partners. GT1 appreciates the opportunity to work in their Traditional Territory and remains committed to the recognition and respect of those who have lived, travelled, and gathered on the lands since time immemorial. Green Technology Metals is committed to stewarding Indigenous heritage and remains committed to building, fostering, and encouraging a respectful relationship with Indigenous Peoples based upon principles of mutual trust, respect, reciprocity, and collaboration in the spirit of reconciliation.**



# CORPORATE SNAPSHOT – Oversold or Undervalued?

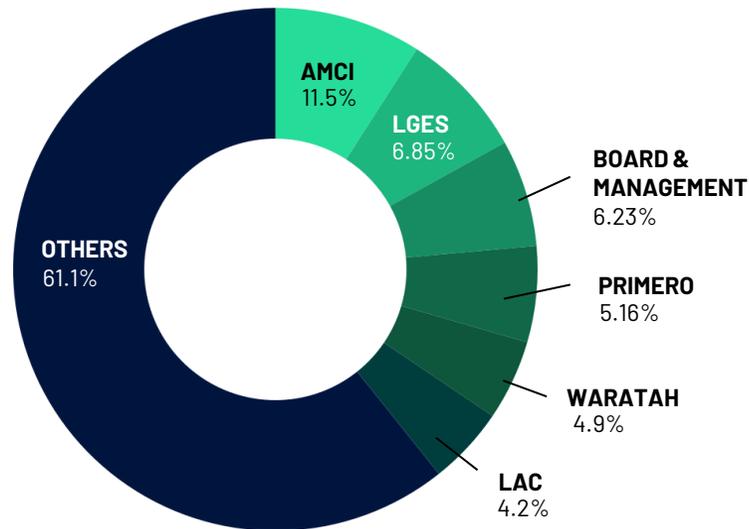


**317.2M** SHARES ON ISSUE

**5.8M** OPTIONS

**28.5M** PERFORMANCE RIGHTS

## SHARE REGISTER



## SHARE PRICE PERFORMANCE



# BOARD OF DIRECTORS

Extensive experience and proven track record of rapidly advancing and delivering lithium projects globally



**JOHN YOUNG**

Non-Executive Chairman

Highly experienced geologist

Co-founder and previous Executive Director of Pilbara Minerals Ltd a A\$11.8b lithium company



**CAMERON HENRY**

Executive Director

20 years' experience managing and operating public companies. Founding Managing Director of Primero Group, a global EPC company that specialises in the design, construction and operation of minerals processing facilities and specifically hard rock Lithium



**PATRICK MURPHY**

Non-Executive Director

Managing Director at AMCI Group, an experienced investment firm with a portfolio of exploration and development interests



**ROB LONGLEY**

Non-Executive Director

Geologist with +30 years' experience in global resources across a range of commodities

Managing Director of Asra Minerals, previously CEO/MD of Arviden and GM Geology at Sundance Resources

# WHY LITHIUM?

We are still at the beginning

Global plug in electric car sales in 2023:  
13.6M units ~ 16% market share  
= growth rate of 31% YoY (down from ~60% in 2022)

Record 1.2M EV's sold in US in 2023 – 7.6% market share

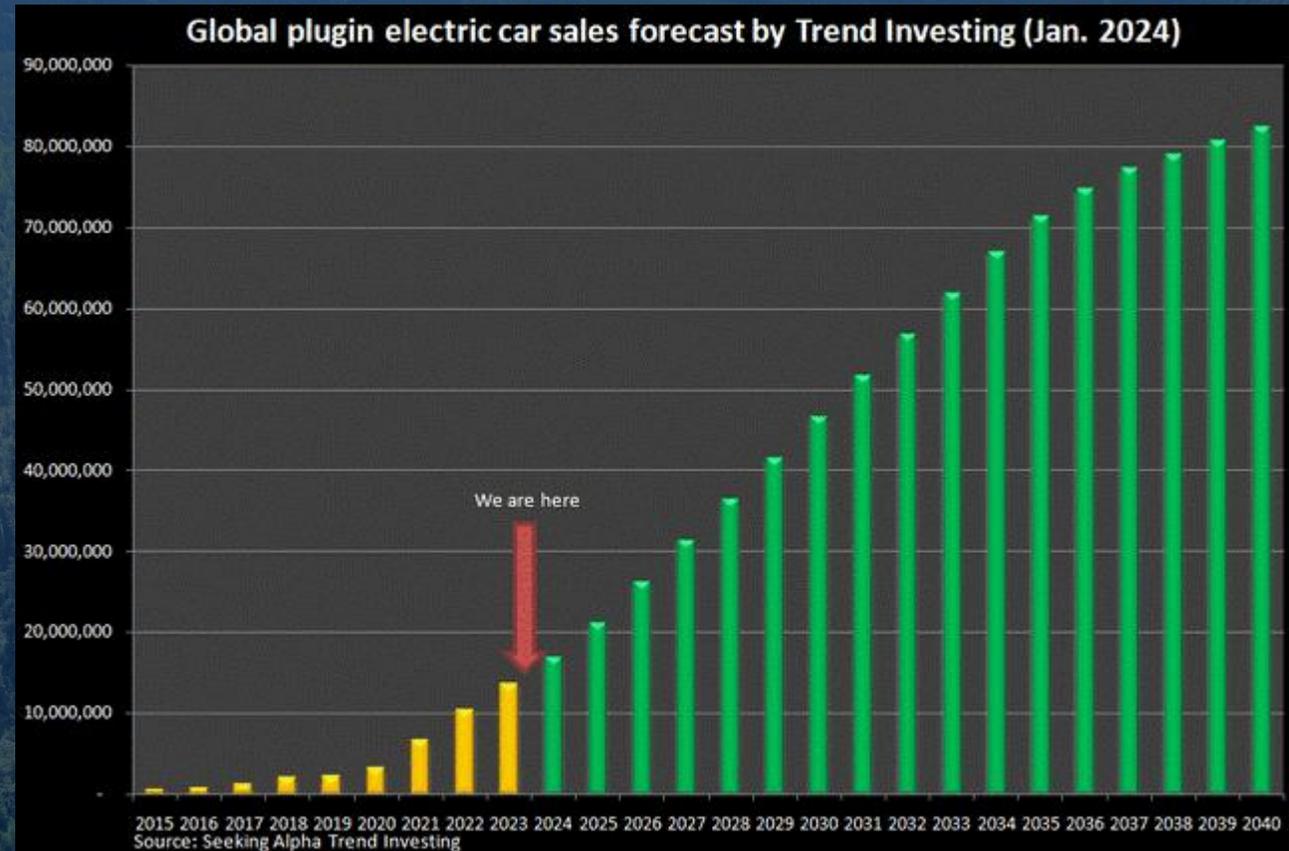
## US – Foreign Entities of Concern (FEOC)

- US to ban Pentagon battery purchases from CATL, BYD and others from October 2027

## UK – Zero Emission Mandate (ZEM)

- ZEV mandate demands 22% of electric car sales in 2024
- Mandate thresholds rise annually to 80% share in 2030 & 100% by 2035
- Failure to meet ZEV mandate can result in £15,000 fine per model below threshold

“We are still at the very early stage of the EV boom”



Trend Investing's global plugin electric car sales forecast to 2024  
(green bars)

# Ontario, Canada

Top-tier mining jurisdiction and emerging global leader for battery metals

**C\$25-billion** Global automakers commitments to battery manufacturing and mining projects

**C\$1.5-billion** Strategic Innovation Fund dedicated to advancing projects and accelerating the approval and construction of new mines.

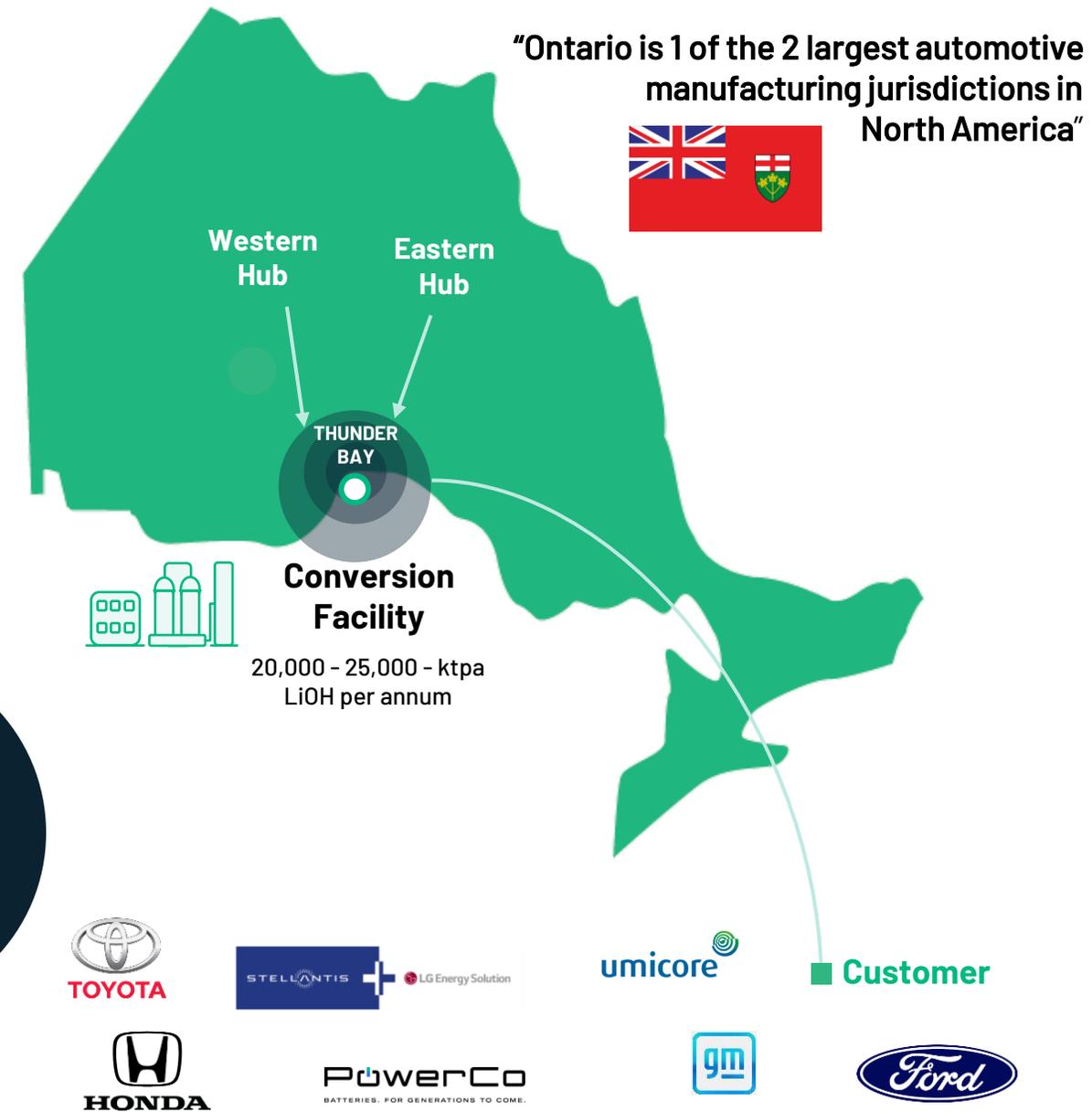
**C\$3 billion** funding available supporting critical infrastructure projects across the province through Ontario Infrastructure Bank

Only jurisdiction to have 6 major global automotive assemblers – Ford, General Motors, Honda, Stellantis, Honda and Toyota

Accessible infrastructure including power and road facilities in comparison to other Canadian jurisdictions



**135 GWh**  
capacity in Ontario  
requiring  
**>120 ktpa** of LiOH per  
annum



# 3 stage integrated strategy

to become the first Concentrates and Chemicals producer in the region

## FIRST PRODUCER IN ONTARIO

- Seymour production from 2025/6  
– minimum 6 years production with opportunity to grow mine life

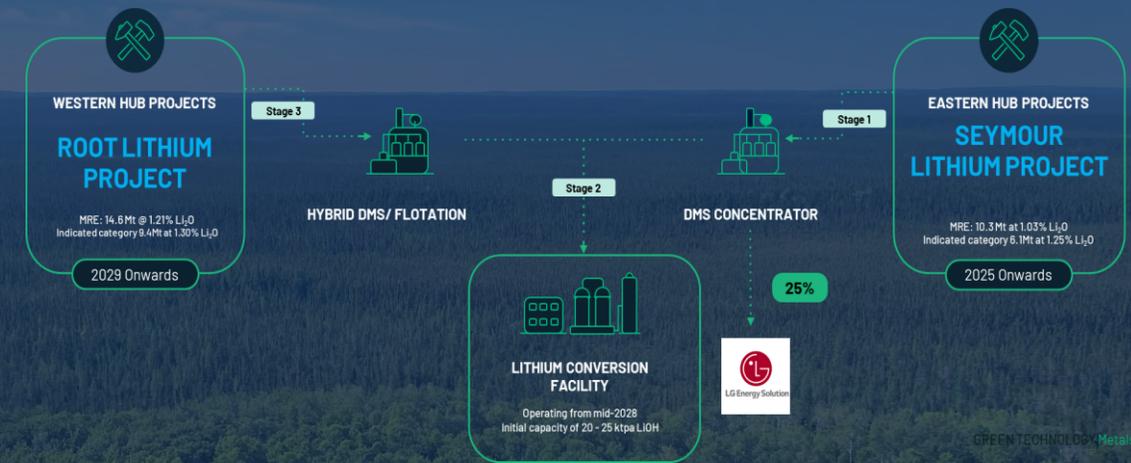
## ESTABLISH CHEMICAL CONVERSION SUPPLY CHAIN

- Partner and develop conversion facility to receive concentrates and supply into the Ontario/Nth American market
- Partnering and funding complete with operators, OEM's and government funding

## GROW AND CONSOLIDATE ADDITIONAL FEED SOURCES

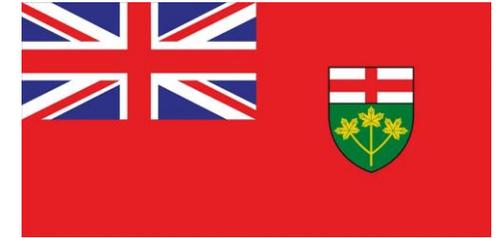
- Bring Root project into production from 2028 – minimum 10 years mine life currently – resource to grow substantially
- Opportunity to combine and consolidate additional feed sources

## Development of a regional supply chain with multiple mine and process hubs feeding a central lithium conversion facility, made in Ontario

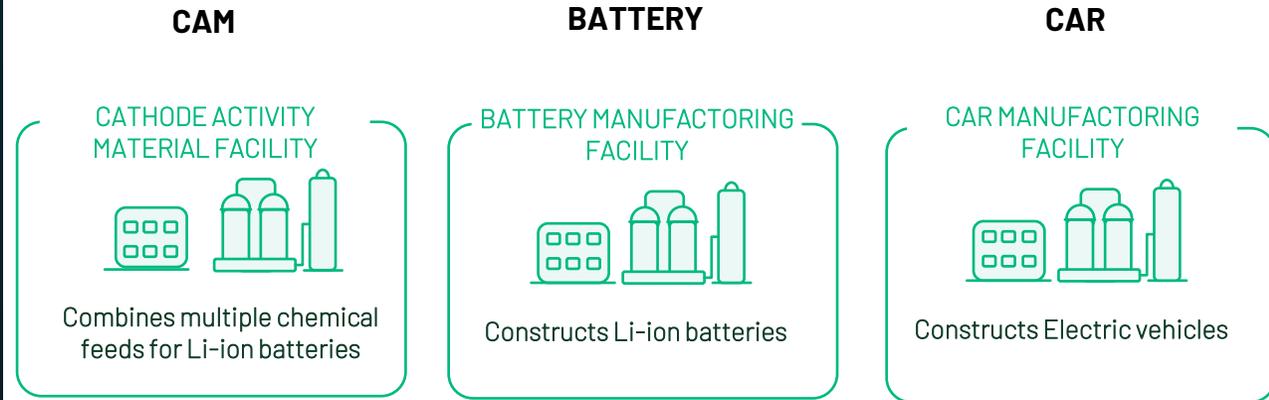


1. For full details of the Seymour Mineral Resource estimate, see GT1 ASX release dated 21 November 2023, Seymour Resource Confidence Increased - Amended. For full details of the Root Mineral Resource estimate, see GT1 ASX release 18 October 2023,
2. The preliminary economic analysis has been prepared on the assumption the SC5.5% concentrate is sold and does not rely on the assumption of the development of the Lithium Conversion Facility
3. Significant resource and confidence level increase at Root, Global Resource Inventory now at 24.5Mt.
4. Potential lithium chemical conversion facility capacities presented are to be evaluated by the Company as part of its downstream and integrated feasibility study work, which is targeted for completion in H1 CY24. The numbers are not projections of future production and investors are cautioned not to rely on the potential plant capacities as being indicative of forecast production volumes.
5. All proposed production dates quoted are indicative

# SUPPLY CHAIN ROCK TO EV-BATTERY



**MADE IN ONTARIO**

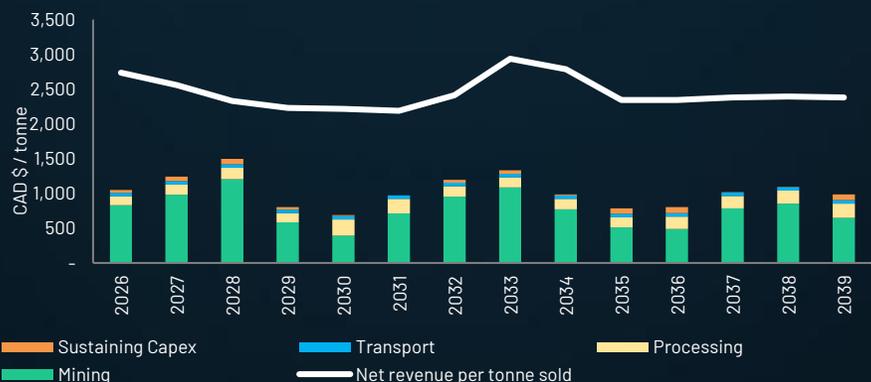


# PEA HIGHLIGHTS

## Stage 1 & 3 Mine and Concentrators

### Highlights

- Combined mine and concentrator development delivers **NPV \$1,189M CAD (USD\$894M)**
- Low initial start-up capex – well defined
- Staged development for second larger operation at Root
- Robust economics confirm the potential to become the first lithium concentrate and chemical producer in Ontario
- Optimisation/trade off studies currently underway to further reduce unknowns and firm costings for DFS



Unit Revenue & Operating Cost (incl. Sustaining CAPEX) per tonne SC 5.5 (CAD)

**24.9MT**

Total JORC Mineral Resource Estimate

**1.13%**

Average Li<sub>2</sub>O GRADE Grade

**C\$309M**

Average Annual EBITDA (USD\$232M)

**54%**

After-tax IRR

**207,000**

Tonnes per year SC5.5 Spodumene Production

**1.3 Years**

Payback Period

**C\$1.19 Billion**

After-tax NPV (USD\$894M)

**C\$985**

Average Per Tonne SC5.5 C1 Cost (USD\$741)

1. For full details refer to announcement "PEA delivers strong economics and mining lease granted", dated 7 December 2023.

2. For full details of the Seymour Mineral Resource estimate, see GT1 ASX release dated 21 November 2023, Seymour Resource Confidence Increased - Amended. For full details of the Root Mineral Resource estimate, see GT1 ASX release 18 October 2023.

3. The preliminary economic analysis has been prepared on the assumption the SC5.5% concentrate is sold and does not rely on the assumption of the development of the Lithium Conversion Facility

# Eastern Hub

## Seymour Lithium Project Strategy



<b>OWNERSHIP</b>	100% Owned
<b>AREA</b>	32,720 Hectares
<b>RESOURCE (Current)</b>	10.3Mt @ 1.03% Li <sub>2</sub> O (with 6.1Mt @ 1.25% Indicated)
<b>EXPLORATION TARGET</b>	22 to 26 Mt @ 0.8 to 1.5% Li <sub>2</sub> O
<b>DRILLING</b>	74,667m
<b>STAGE</b>	Pre-Development
<b>EXPECTED FIRST PRODUCTION</b>	2025

- ✓ **Mining Lease Granted for proposed construction area**
- ✓ **PEA completed**
- ✓ **Simple, DMS only design**
  - **Minimised footprint - only~500ha**
  - **2 open pits – staged North and South Aubry**
  - **Dry stacked tailings**
- ✓ **Offtake executed with LG Energy Solutions for first 5 years of feed**

### 2024

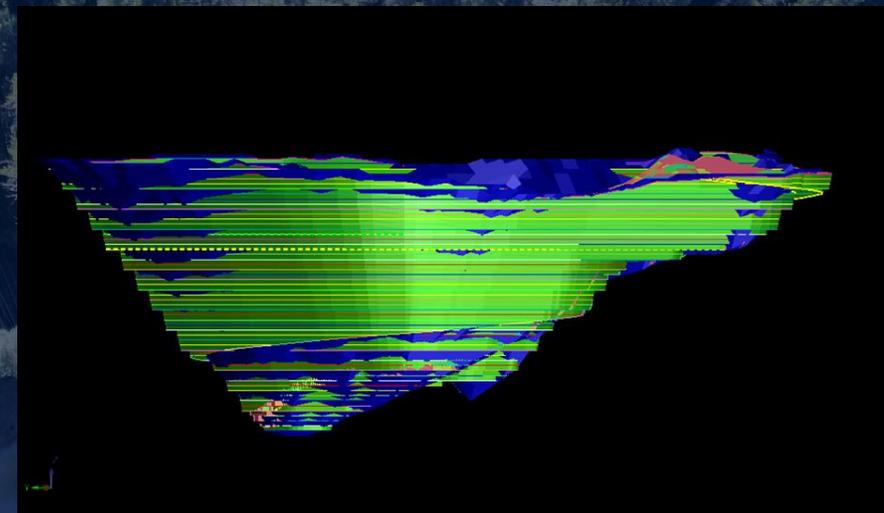
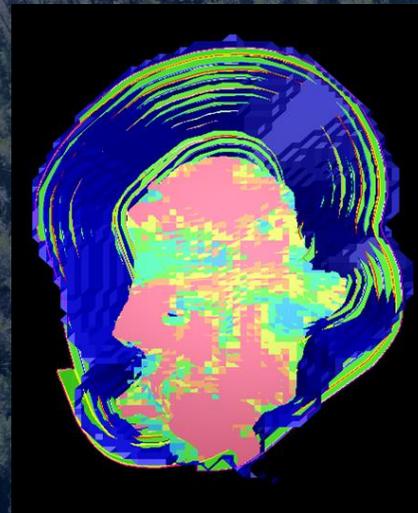
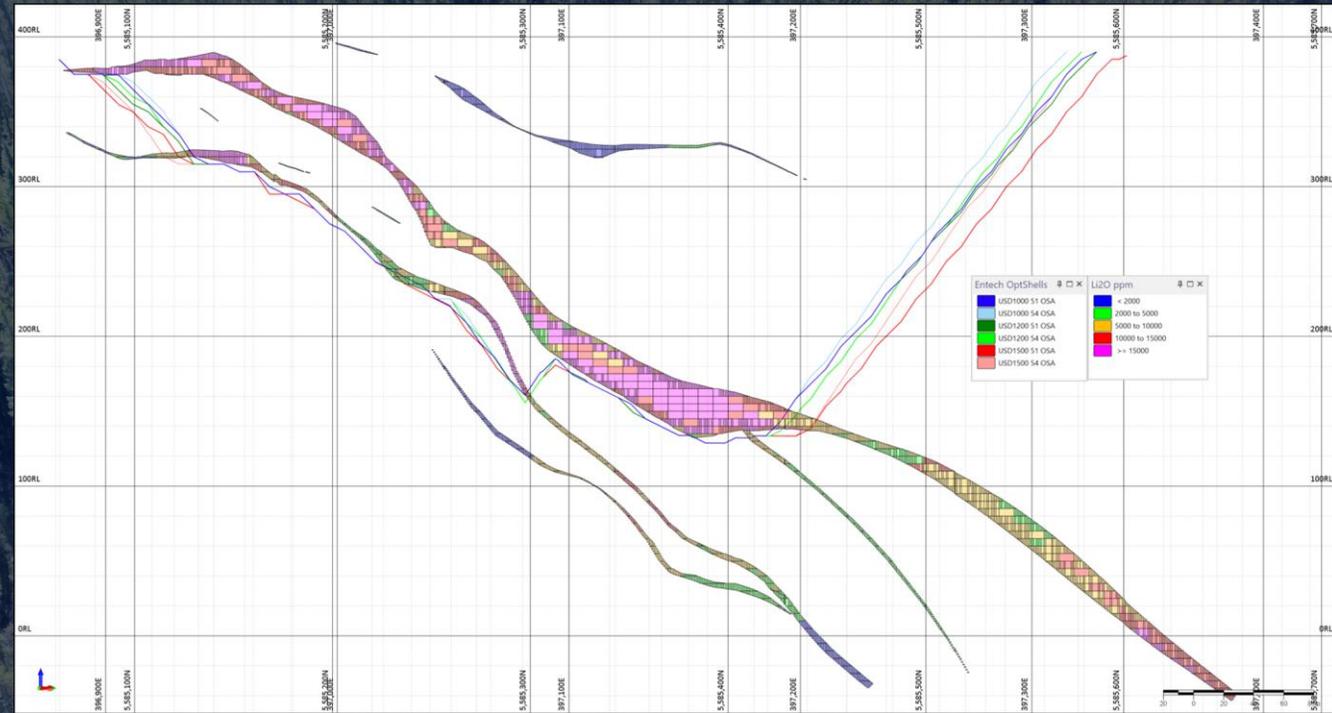
- **Progress permitting and consultation**
- **PEA Optimisation and Definitive Feasibility Study**
- **Resource growth with drilling at Junior Lithium Project**
- **Further offtake/project level investment & financing**
- **Final Investment Decision**
- **Commence clearing and construction activities**

# Definitive Feasibility Study

New modifying factors optimisation to enable DFS parameters to be set

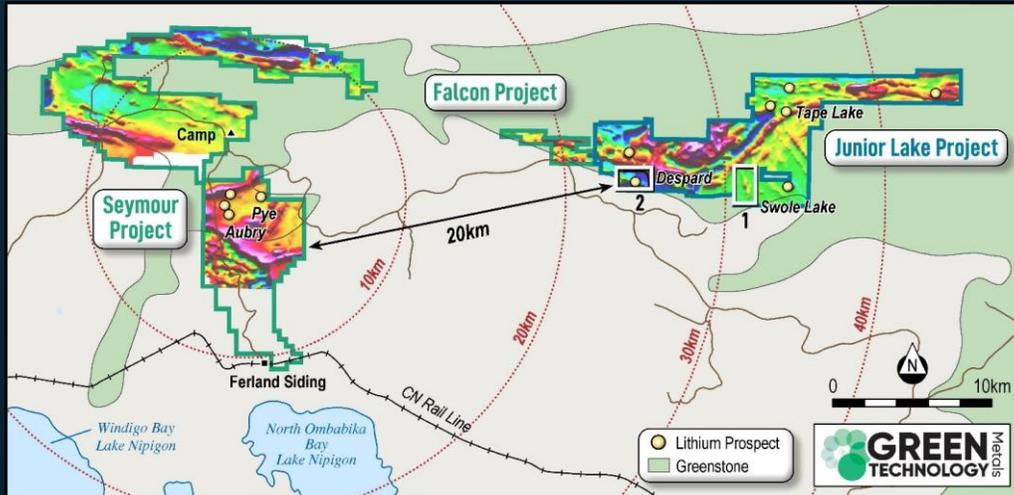
## Deliverables

- Mineral Inventory Expansion
- Geotechnical Study
- Whittle Shell Selection
- Mining Cost Model Optimization
- Staged Cutback Pit Design
- Open Pit and Underground Cross-Over Study
- Infill Drilling and Resource Conversion
- DFS Concentrator Testwork
- Logistical Studies
- Water Storage and Run-Off Facility Optimization



# Resource Growth

Drilling planned at Junior Lithium Project



Sample	Name	E	N	Type	Li <sub>2</sub> O %
F713162	Despard	422507	5586337	Float	<b>3.23</b>
F713124	Despard	422504	5586341	Outcrop	<b>2.56</b>
F712692	Tape Ridge Peg	433191	5591393	Outcrop	<b>2.97</b>
F712769	Tape Ridge Peg	433193	5591392	Float	<b>2.67</b>
F712693	Tape Ridge Peg	433192	5591389	Outcrop	<b>2.11</b>

## LCT spodumene-bearing pegmatites

measuring up to 40 meters in length and approximately 6 meters in width surface exposure

## Significant lithia grade up to 3.23% Li<sub>2</sub>O

returned from rock chip samples

## Proven grade and multiple occurrences

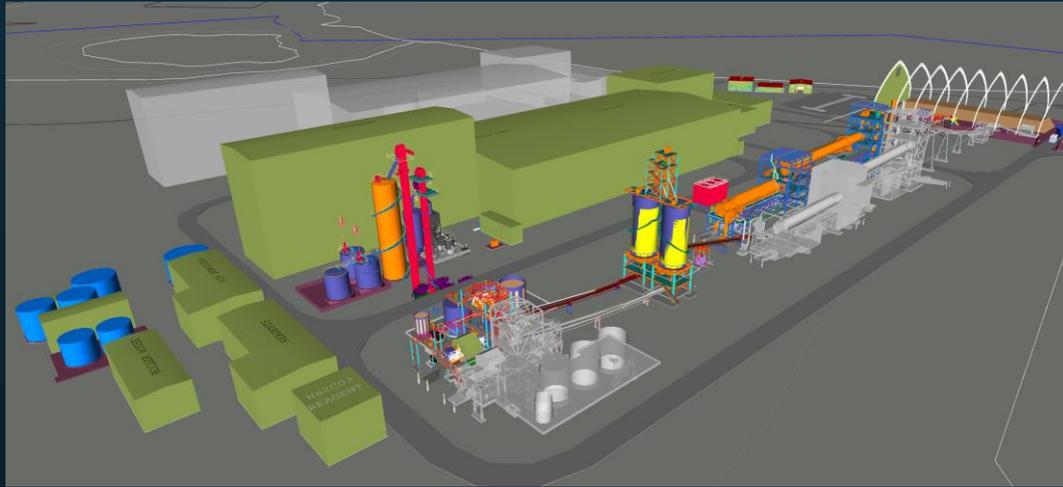
with the potential to significantly add to GT1's eastern-hub resource base

## Similar magnetic signatures to Root Bay

indicating the likelihood of stacked pegmatites or a potentially fertile intrusive system

# Conversion Facility

Top-tier mining jurisdiction and emerging global leader for battery metals



**Step 1** – proposed circa 20-25 kt capacity

**Step 2** – plant/site layout confirmed for additional train

- ✓ **Strategic Innovation Funding (SIF) applications lodged for assessment and supported by LGES**
- ✓ **Alkali-leach flowsheet:** (Metso-Outotec process) – Piedmont, Keliber
- ✓ **Calcination test work:** >97% conversion
- ✓ **PEA Basis:** 92% overall recovery

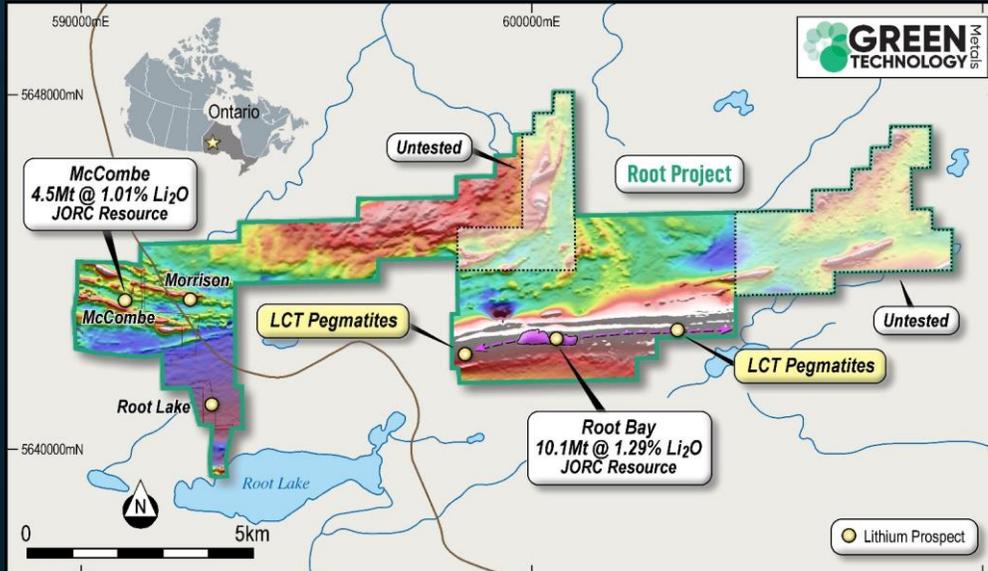
Area	Capital (CAD)
LiOH Plant	607M
Site Infrastructure	27M
Tailings Disposal	0.4M
Lithium Hydroxide Indirects	168M
Owners Cost	38M
<b>Sub-total</b>	<b>840M</b>
Contingency (25%)	210M
<b>Total inc Contingency</b>	<b>1,050M</b>
Plant Pre-Production	13M
<b>Total inc Pre-Production</b>	<b>1,064M</b>

## 2024

- Complete partnering process
- Progress Preliminary Feasibility Study
- Progress Government Funding applications
- Confirm production and delivery strategy for future stages

# Western Hub

## Root Lithium Project Strategy



<b>OWNERSHIP</b>	100% Owned
<b>AREA</b>	23,095 Hectares
<b>RESOURCE (Current)</b>	14.6Mt @ 1.21% Li <sub>2</sub> O
<b>EXPLORATION TARGET</b>	20-24Mt @ 0.8 to 1.5% Li <sub>2</sub> O
<b>DRILLING</b>	42,000m
<b>STAGE</b>	Preliminary Economic Assessment
<b>EXPECTED FIRST PRODUCTION</b>	2028/9

### Root Bay East

- ✓ Initial assays results received from the first 8 of a 46 drillhole exploration program at Root Bay confirms significant lithium mineralisation 1.3kms east of the Root Bay Deposit
- ✓ The thickest drill intercept to-date has been returned from Root Bay East: **23.3m @ 1.16% Li<sub>2</sub>O from 197.0m** (hole RBE-23-007)
- ✓ Targeting along strike repetitions of the Root Bay resource which hosts 10.1 Mt @ 1.29% Li<sub>2</sub>O (comprised of 9.4Mt @ 1.30% Li<sub>2</sub>O indicated mineral resource and 0.7Mt at 1.14% Li<sub>2</sub>O inferred mineral resource).

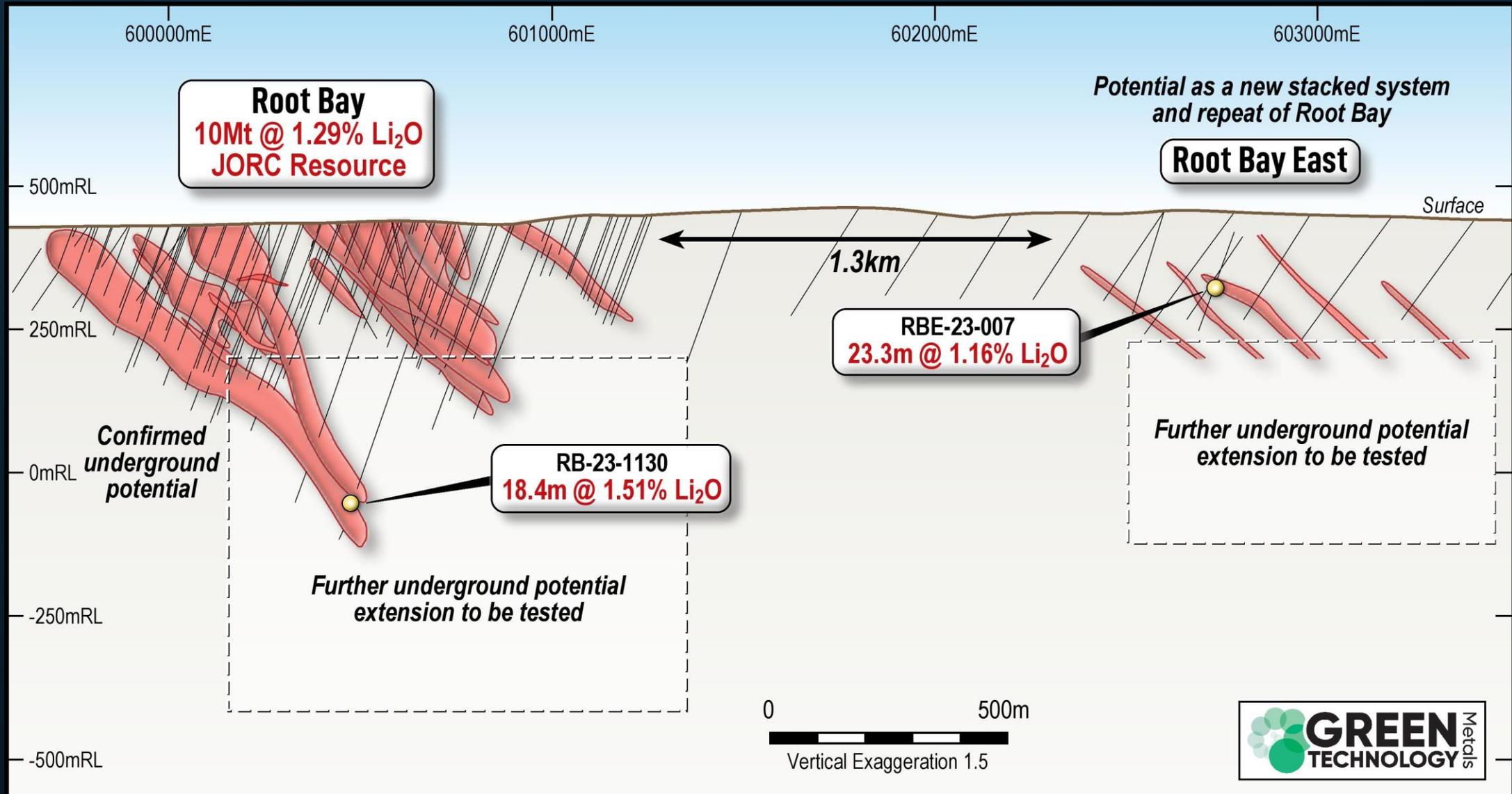
### Root Bay Deep Potential

- ✓ The first two down dip extension holes targeting open pit and underground resource growth at the Root Bay deposit have successfully demonstrated that thick, high-grade pegmatites exist to at least 950m downdip from current drill depth extents

## 2024

- Continue drill testing Root Bay East
- Further field exploration across the Root tenement area

# Root Lithium Project - Significant upside to be tested



See ASX Announcement: "New Discovery 1.3km East of Root Bay Deposit" on 22 November 2023

# INDICATIVE TIMELINE TO PRODUCTION

## Stage 1: Eastern Hub

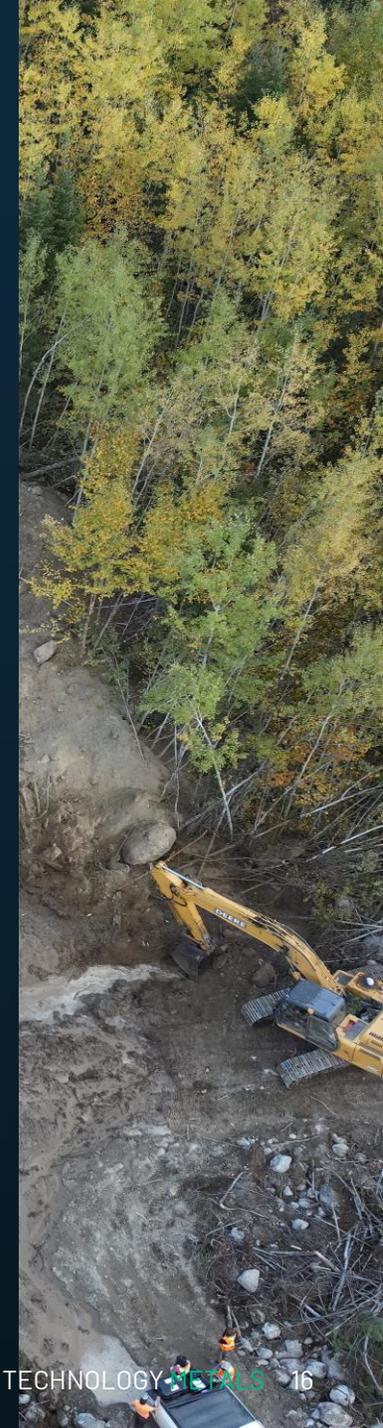
- Integrated PEA Release
- Permitting and Approvals
- Feasibility Study - Seymour
- FID and Financing
- Construction
- Spodumene Concentrate Production

## Stage 2: Lithium Hydroxide Production

- Due Diligence and Permitting
- Feasibility Studies - LiOH
- Partnering and Finance
- Construction
- Commissioning & Production

## Stage 3: Western Hub

- Resource Drilling
- Feasibility Studies - Root
- Permitting & Approvals
- Construction
- Production



# WHAT IS NEXT?

Capital light work streams invoked – given current market conditions

## Seymour (Eastern Hub)

- Optimise PEA modifying factors – focus on cost rather than NPV
- Continue permitting activities
- Definitive Feasibility Study – delivery in 2<sup>nd</sup> half 2024 & FID
- Continue financing structuring with potential strategic partners
- Junior maiden drilling program 2<sup>nd</sup> half 2024

## Conversion

- Finalise partnering process for conversion facility
- Commence PFS

## Root (Western Hub)

- Submit project definition for Root
- Recommence drilling at Root – further definition drilling & resource expansion – 2<sup>nd</sup> half 2024



# Contacts

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### Luke Cox

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## Investor Relations and Media

### Jacinta Martino

Email: [ir@greentm.com.au](mailto:ir@greentm.com.au)

## Share registry

### Automic Group

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ASX **GT1**



# APPENDIX | MINERAL RESOURCE ESTIMATE

Project	Tonnes (Mt)	Li <sub>2</sub> O (%)
<b>Root Project</b>		
<b>Root Bay</b>		
Indicated	9.4	1.30
Inferred	0.7	1.14
<b>McCombe</b>		
Inferred	4.5	1.01
<b>Total</b>	<b>14.6</b>	<b>1.21</b>
<b>Seymour Project</b>		
<b>North Aubry</b>		
Indicated	6.1	1.25
Inferred	2.1	0.8
<b>South Aubry</b>		
Inferred	2.0	0.6
<b>Total</b>	<b>10.3</b>	<b>1.03</b>
<b>Combined Total</b>	<b>24.9</b>	<b>1.13</b>

<sup>1</sup> For full details of the Seymour Mineral Resource estimate, see GT1 ASX release dated 21 November 2023, *Seymour Resource Confidence Increased - Amended*. For full details of the Root Mineral Resource estimate, see GT1 ASX release 18 October 2023, *Significant resource and confidence level increase at Root, Global Resource Inventory now at 24.5Mt*. The Company confirms that it is not aware of any new information or data that materially affects the information in that release and that the material assumptions and technical parameters underpinning this estimate continue to apply and have not materially changed.



# APPENDIX | DISCLAIMER

**Important information:** Green Technology Metals Limited (ASX GT1) ACN 648 657 649 (the "Company") is the issuer of this presentation.

**Not a disclosure document:** This presentation is not a disclosure document for the purposes of Chapter 6D of the Corporations Act 2001 (Cth) ("Corporations Act") and does not purport to include the information required of such a disclosure document. It has not been lodged with or approved by any regulatory authority, such as the Australian Securities and Investments Commission ("ASIC") or the Australian Securities Exchange ("ASX").

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**No New Information:** Except where explicitly stated, this announcement contains references to prior exploration results, all of which have been cross-referenced to previous market announcements made by the Company. The Company confirms that it is not aware of any new information or data that materially affects the information included in the relevant market announcements.

The information in this report relating to the Mineral Resource estimate for the Seymour Project is extracted from the Company's ASX announcement dated 17 and 21 November 2023. GT1 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 information in this report relating to the Mineral Resource estimate for the Root Project is extracted from the Company's ASX announcements dated 17 October 2023. GT1 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.

# APPENDIX | COMPETENT PERSONS STATEMENT

The information in this Presentation that relates to the Exploration Results is based on activities carried out by Mr Luke Cox. Mr Cox has sufficient experience which is relevant to the style of mineralisation and type of deposit under consideration and the activity they are undertaking to qualify as Competent Persons as defined in the 2012 Edition of the Australasian Code for Reporting of Exploration Results, Mineral Resources and Ore Reserves (JORC Code 2012). Mr Cox consents to the inclusion in this Presentation of the matters based on the information in the form and context in which it appears in this Presentation. Mr Cox is the Chief Executive Officer of the Company and holds securities in the Company. The Company confirms there have been no material changes to exploration results since first reported in accordance with Listing Rule 5.7.

## **Confirmation Statement –Preliminary Economic Assessment**

The production targets and forecast financial information disclosed in this Announcement is extracted from the Company's ASX announcement entitled "Preliminary Economic Assessment delivers strong economics & mining lease granted for Seymour", dated 7 December 2023. The Company confirms all material assumptions underpinning the production targets and forecast financial information derived from the production targets in the initial announcement continue to apply and have not materially changed



# APPENDIX | EXPLORATION TARGETS COMPETENT PERSONS STATEMENT

The information in this Presentation that relates to the Exploration Target at Seymour is based on activities carried out by Mr Luke Cox. Mr Cox has sufficient experience which is relevant to the style of mineralisation and type of deposit under consideration and the activity they are undertaking to qualify as Competent Persons as defined in the 2012 Edition of the Australasian Code for Reporting of Exploration Results, Mineral Resources and Ore Reserves (JORC Code 2012). Mr Cox consents to the inclusion in this Presentation of the matters based on the information in the form and context in which it appears in this Presentation. Mr Cox is the Chief Executive Officer of the Company and holds securities in the Company.

The information in this Presentation that relates to the Exploration Target at Root is based on activities carried out by Mr Luke Cox. Mr Cox has sufficient experience which is relevant to the style of mineralisation and type of deposit under consideration and the activity they are undertaking to qualify as Competent Persons as defined in the 2012 Edition of the Australasian Code for Reporting of Exploration Results, Mineral Resources and Ore Reserves (JORC Code 2012). Mr Cox consents to the inclusion in this Presentation of the matters based on the information in the form and context in which it appears in this Presentation. Mr Cox is the Chief Executive Officer of the Company and holds securities in the Company.

## **Qualifying Statement for the Exploration Targets**

The potential quantity and grade is conceptual in nature, there has been insufficient exploration to estimate a Mineral Resource and it is uncertain if further exploration will result in the estimation of a Mineral Resource

## **Geological Setting**

All the Claims (Seymour, Root Junior & Wisa) host lithium bearing pegmatites which sit within the fractioned lithium zone close to their magmatic source

## **Strike**

Drilling, surface sampling, aerial ortho-mosaics and topographic mapping (LiDAR) have been used to determine the approximate strike length of the pegmatites

## **Depth**

Drilling at Seymour and Root have confirmed the pegmatites can exceed 250m in depth, thus a depth of 500m has been applied

## **Thickness**

Implicit Modelling has been utilised to determine the thickness of the pegmatites and then extrapolated along strike and down dip using the parameters mentioned above

## **Tonnage**

Specific gravity of 2.78 has been applied to the implicit model volumes to determine the tonnage

## **Grade**

The Seymour and Root JORC Resource hosted Inferred grades ranging from 0.8 to 1.5%  $\text{Li}_2\text{O}$ , this has been used for the Exploration Targets

## **Exploration Activities**

Exploration targets are planned to be tested by field mapping and drilling over the next 36 months