

Building the pre-eminent vertically integrated lithium business in Ontario

April 2022

ASX:GT1



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**No New Information**: The information in this release that relates to Mineral Resource Estimates for the Ontario Lithium Projects was released in the Company's Prospectus dated 16 September 2021(see ASX GT1 release dated 8 November 2021). 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 these estimates continue to apply and have not materially changed.



# **BUILDING** A vertically integrated lithium business

High-grade projects and a large-scale strategic footprint<sup>1</sup>

# SEYMOUR

Aggressive three-phase drilling program; resource update Q2 CY22

Mineral Resource: 4.8 Mt @ 1.25% Li<sub>2</sub>0<sup>2</sup>

Exploration Target: 22 - 26 Mt @ 0.8-1.5% Li<sub>2</sub>0

### **ROOT**

Dense pegmatite swarm on a granted mining lease

Exploration Target: 20 - 24 Mt @ 0.8-1.5% Li<sub>2</sub>0

### WISA

Large, under-explored tenement base covering 18.9km<sup>2</sup>

Exploration Target: 8 - 10 Mt @ 0.8-1.5% Li<sub>2</sub>0

#### **ALLISON**

Highly prospective Archean Greenstone tenure

Total GT1 land package expanded from 9kHa to 35kHa

The potential quantity and grade of Exploration Targets is conceptual in nature, there has been insufficient exploration to estimate a Mineral Resource in these areas and it is uncertain if further exploration will result in the estimation of a Mineral Resource in these areas. See Appendix: Exploration Targets.





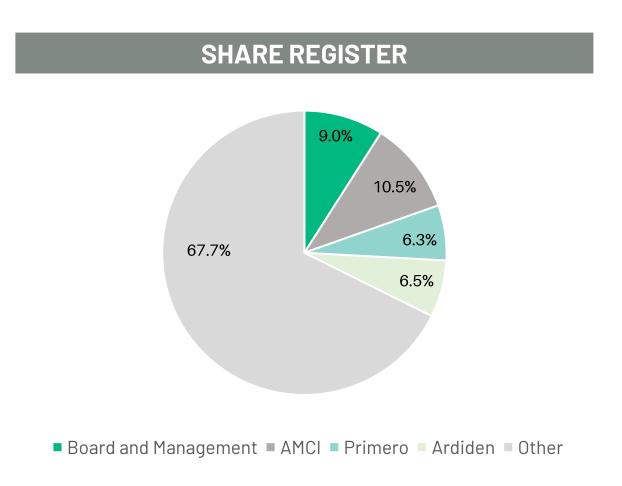
<sup>1.</sup> The Company holds a 80% interest in the Ontario Lithium Projects (Seymour, Root and Wisa) under a joint venture with Ardiden Limited (ASX: ADV)

For full details of Mineral Resources estimates, please refer to ASX release dated 8 November 2021, "Prospectus". Green Technology Metals confirms that it is not aware of any new information or data that materially affects the information included in the Prospectus. All material assumptions and technical parameters underpinning the estimates in those releases continue to apply and have not materially changed.

# **BUILDING** A vertically integrated lithium business

### Corporate snapshot

CAPITAL STRUCTURE   ASX:GT1			
Share price (at 7 April 2022)	A\$0.995		
Shares on issue	201.5M		
Market capitalisation	A\$200.5M		
Cash (at 31 December 2021)	A\$19.2M		
Debt (at 31 December 2021)	A\$0M		
EV	A\$181.3M		
Options	5.8M		
Performance rights	13.5M		





# **BUILDING** A vertically integrated lithium business

Significant progress since listing in November 2021



Early exploration agreement signed with Whitesand First Nation ESG and First Nation Manager appointed and mobilised to site



Baseline environmental and permitting study work commenced Set to deliver potential for accelerated lithium project development



Phase 1 step-out drilling at North Aubry complete Extensional diamond drilling cores submitted for assay



Strong mineralised intervals intersected in first three holes assayed
Results to be incorporated into a scheduled update of current Mineral Resource estimate



Phase 2 Central Aubry drilling commenced Planned 31 holes for 5,100 meters



Phase 3 Pye prospect exploration drilling program accelerated Planned 26 holes for 2,000 meters



Ramped up to 80% ownership in the Seymour, Root and Wisa Projects Via the exercise of highly in-the-money option held since listing







# BUILDING A leading vertically integrated lithium business

Investment highlights



### **BEST-IN-CLASS LITHIUM TEAM**

Board and management team with proven track record of rapidly advancing and delivering lithium projects globally



### **FLAGSHIP SEYMOUR MINE PROJECT**

Aggressive three-phase drilling program to rapidly build critical-mass resource inventory and progress to mine evaluation



### FAST-TRACKED VERTICAL LITHIUM DEVELOPMENT

Baseline environmental and mine permitting studies commenced with multiple LiOH converter sites selected in Thunder Bay



### **LOW CARBON LITHIUM**

Ontario's extensive hydro power generation supports strong capability to deliver highly demanded, low carbon lithium products



### **EXTENSIVE RESOURCE UPSIDE**

Multiple potential lithium mine projects to be advanced across a large-scale, strategic Ontario landholding

# 1. BEST-IN-CLASS Lithium Team



Proven track record of rapidly advancing and delivering lithium projects globally

### **BOARD OF DIRECTORS**

### **JOHN YOUNG**

Non-Executive Chairman

- Highly experienced geologist
- Co-founder and Executive Director of Pilbara Minerals Ltd
- Current Non-Executive Director of Bardoc Gold and Trek Metals

#### **CAMERON HENRY**

Non-Executive Director

- Founding MD of Primero Group
- Over 20 years experience in development and delivery of global minerals processing, energy and NPI projects

### **PATRICK MURPHY**

Non-Executive Director

- Managing Director at AMCI Group, an experienced investment firm with a portfolio of exploration and development interests
- 14 years experience at AMCI and investment bank, Macquarie

#### **ROB LONGLEY**

Non-Executive Director

- Geologist with +20 years experience in global resources across a range of commodities
- CEO/MD of Ardiden, previous GM Geology at Sundance Resources

#### GREEN TECHNOLOGY Metals

### KEY STRATEGIC PARTNERS



- Vertically integrated engineering group specialising in end-toend delivery of global resource projects
- History of successfully designing, building and operating spodumene processing and conversion facilities globally



- Invests in and operates natural resources, transportation, infrastructure, metals and energy businesses
- Expertise in supporting expansion, mergers and acquisitions and operational enhancements

#### SUBSTANTIAL ALIGNMENT BENEFITS INCLUDE:

- ✓ Direct access to globally leading expertise in:
  - Lithium processing and conversion facilities design and construction
  - Mine financing and development activities
- ✓ Accelerated internal study work timeframes and capability
- Access to extensive global relationship networks

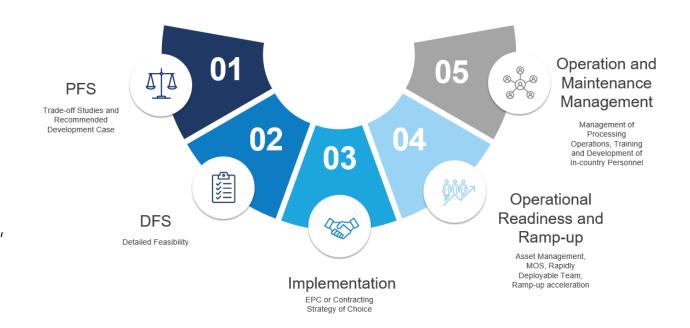
### 1. BEST-IN-CLASS Lithium Team



Primero strategic partnership delivers premium global reach and delivery capability

# PRIM=RO

- Diverse experience and customer base in hard rock lithium mineral processing globally
- Industry leading up- and down-stream capability in the lithium minerals sector
- Enviable reputation in development of hard rock lithium concentration and conversion projects
- Full asset life-cycle delivery through feasibility, design, construction and operation of spodumene concentrators, both DMS and/or flotation
- Feasibility evaluation and build of lithium conversion facilities in close partnership





























# 1. BEST-IN-CLASS Lithium Team

With a well established operations hub in Ontario, Canada

#### MANAGEMENT TEAM

### **LUKE COX**

Chief Executive Officer

- Geologist and mine manager with 25 years industry experience including Li, Ni and Co projects and operations
- Led global exploration, mining and financing initiatives

#### **MATT HERBERT**

General Manager, North America

- Exploration Manager and OPF Processing Manager with +20 years experience
- 14 years with Rio Tinto and FMG in management roles

### ANDREA JOHNSTONE

ESG Manager, North America

- Environment and governance managerial experience across large scale mining operations in Australia and Canada
- +10 years with FMG in management roles

#### **NATHAN SIMS**

Exploration Manager

- Exploration Manager specialising in the Ontario Green Stone belt with prior experience in GT1 projects
- +15 years managing exploration projects in Thunder Bay, Ontario

# JOHN WINTERBOTTOM

General Manager, Technical Services

- Geologist with +25 years experience in mining and exploration over a wide range of hard rock minerals
- Managed exploration and project teams transitioning assets from greenfield concept targets right through to operations



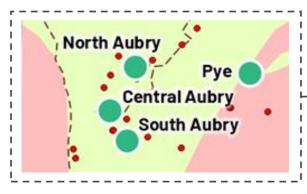


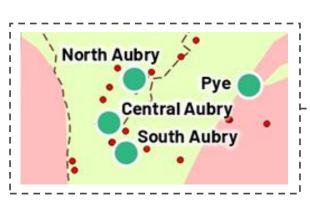
Rapidly building critical-mass resource inventory

- Existing Mineral Resource of **4.8 Mt @ 1.25%** Li<sub>2</sub>0 and 186ppm Ta<sub>2</sub>0<sub>5</sub><sup>1</sup>
- Exploration target of **22 26 Mt @ 0.8–1.5%** Li<sub>2</sub>0 within 7km of strike

The potential Exploration Target quantity and grade is conceptual in nature, there has been insufficient exploration to estimate a Mineral Resource in these areas and it is uncertain if further exploration will result in the estimation of a Mineral Resource. See Appendix: Exploration Target.

- Trans-continental rail adjacent to southern end of the tenement
- ocated within 8km of proposed Jackfish hydro electric project
- Environmental and mining baseline studies underway to fast-track development
- Metallurgical bulk samples produced high-quality coarse spodumene
- Aggressive three-phase drill program advancing
- Phase 1 update to current Mineral Resource on track for Q2 2022

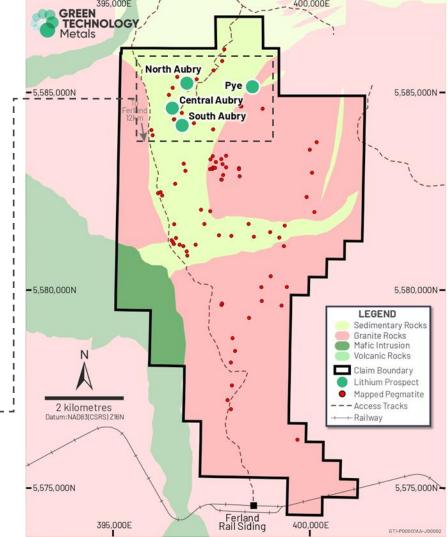






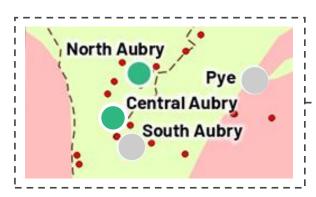




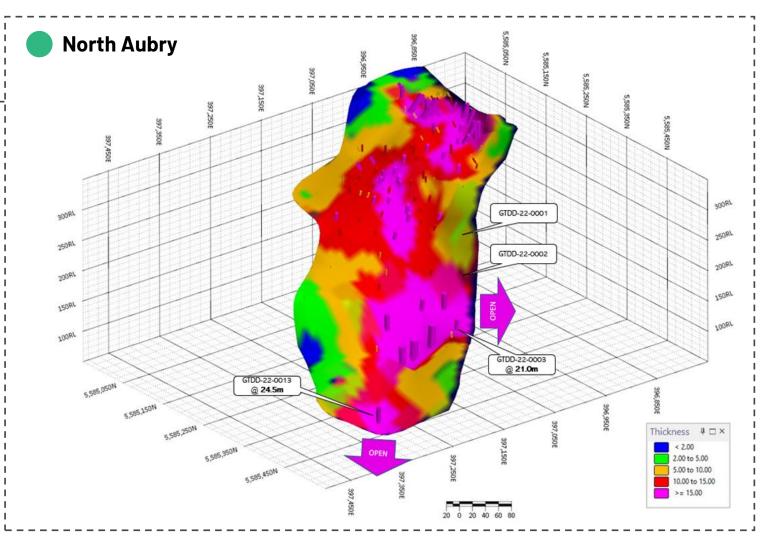


Phase 1 and 2 drilling programs at broader Aubry system





- North Aubry resource: 4.8 Mt @ 1.5% Li<sub>2</sub>0<sup>1</sup>
- Expanded 16-hole, 5,895km step-out drill program (Phase 1) completed at North Aubry
- Evaluating open and untested along-strike and up to 150m down-dip extensions
- Maiden intercept of 40m @ 1.54% Li<sub>2</sub>0 (from 244m downhole) confirms continuity beyond existing Mineral Resource estimate<sup>2</sup>
- Phase 2, 31-hole, 5,100km program at Central Aubry zone recently commenced
- No existing Mineral Resource estimate for Central Aubry zone



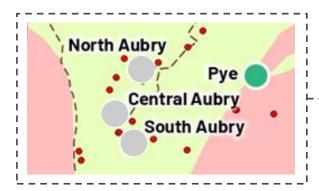




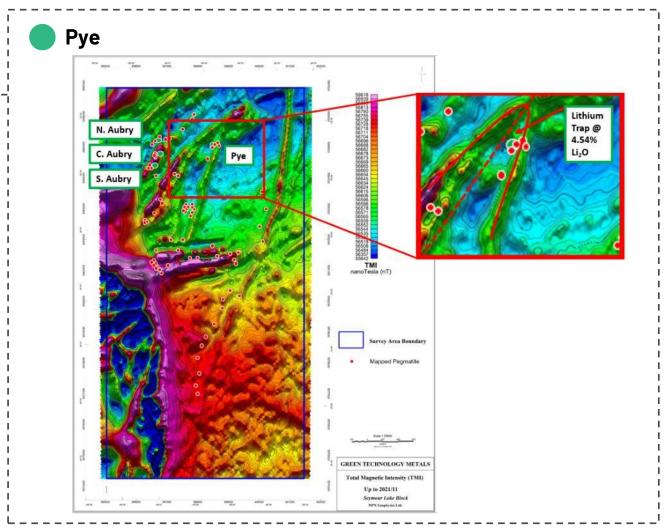


Li

### Phase 3 Pye prospect exploration drill out



- Pye prospect located approx. 1km east of the Aubry system
- Completely untested prospect, no existing Mineral Resource estimate
- Recently commenced Phase 3, 26-hole, 2,000m drill program at Pye
- Initial target for drilling is the LCT pegmatite which is exposed at surface with dimensions approx. 18m wide, 84m long, striking in a NE-SW direction and mapped as sub-vertical<sup>1</sup>
- Drilling expected to be completed during April



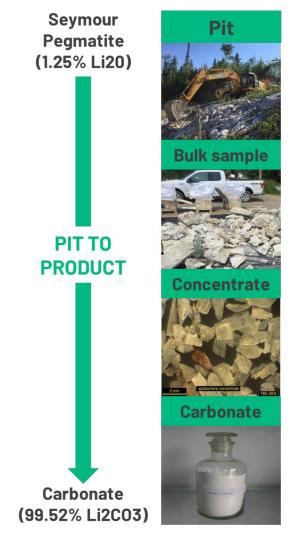






Attractive metallurgy with demonstrated ability to produce coarse grained SC6

- Seymour bulk samples concentrated >7% Li20 confirming a clean SC6 product with strong recoveries and low deleterious elements.
- Seymour SC6 concentrate was converted to battery grade Lithium Carbonate at 99.52% Li2CO3
- Coarse product produced preferable for downstream processing
- Primero desktop study highlighted:
  - Simple flow sheet design DMS only
  - Low capital and operating expenditure
  - High recoveries and high concentrate grades







To deliver a fully integrated lithium extraction, processing and conversion chain



### **RESOURCE ADVANCEMENT**

Definition, expansion and evaluation



### **SEYMOUR**

### Targeting a baseload, high-grade Mineral Resource

Exploration and resource development upside to provide ongoing feed capacity

ROOT

WISA

**ALLISON** 

PENNOCK LAKE GATHERING LAKE

ROOT BAY SUPERB LAKE 2

### SPODUMENE CONCENTRATE

Mines and spodumene processing capacity





Flagship Seymour mine and processing plant









Additional GT1 mining operation(s) feeding expanded processing capacity



Potential third party spodumene concentrate

3

### LITHIUM HYDROXIDE

Thunder Bay/Ontario lithium converter<sup>1</sup>



Train 1: Initial 30 ktpa LiOH chemical plant



Train 2: Upgrade **30 - 60 ktpa LiOH** chemical plant



Train 3: Scale to **>60 ktpa LiOH** chemical plant

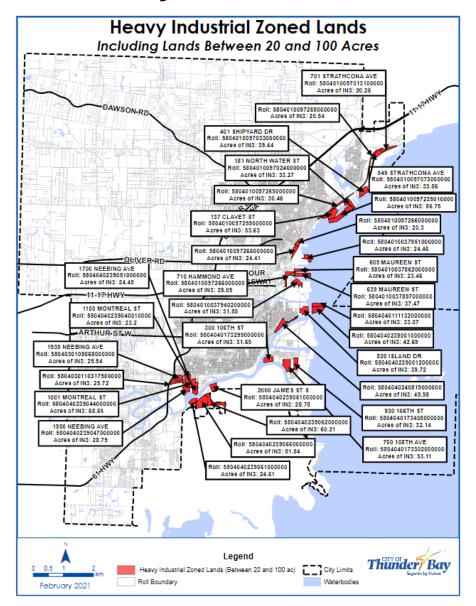


Potential lithium chemical conversion facility capacities presented are to be evaluated by the Company as part of its downstream and integrated feasibility study work, which is targeted for completion in H2 CY23



Three potential converter sites in Thunder Bay selected and under negotiation

- Desktop studies commenced on:
  - Spodumene concentration plant at Seymour Mine
  - Downstream LiOH conversion facility in Thunder Bay
- Over 50 potential heavy industry locations for lithium conversion facility in Thunder Bay identified and considered
- Numerous available regional port facilities
- Three key sites selected and under negotiation







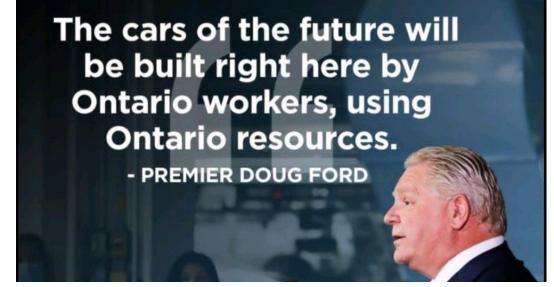
Critical Minerals Strategy to unleash Ontario's mineral potential

- In March, the Ontario government announced plans to invest C\$29M though the province's first ever Critical Minerals Strategy
- Designed to **unlock the North's critical minerals**, drive economic prosperity across the province and create jobs
- The strategy will support a made-in-Ontario electric vehicle supply chain
- Providing a simpler pathway to permitting and streamlined approval processes

"The Critical Minerals Strategy is our government's blueprint to connect industries, resources and workers in our province's north to the future of manufacturing in the south as we build up home-grown supply chains. Doing so has never been more important as we secure game-changing investments in our auto sector to build the electric vehicles and batteries of the future using Ontario minerals."

- Ontario Premier, Doug Ford

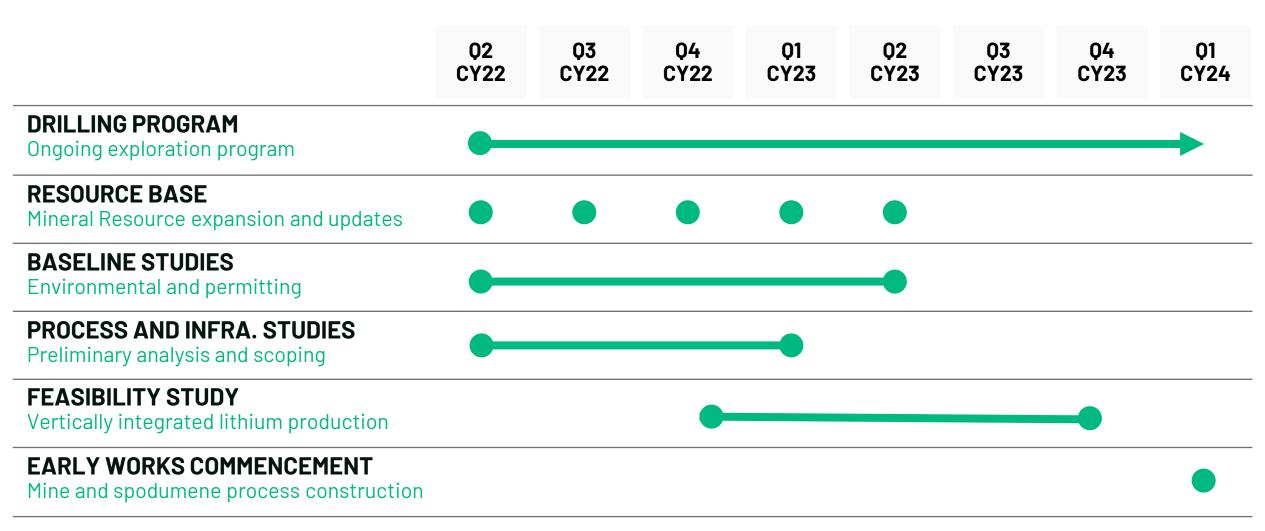








Targeted Feasibility Study completion in H2 CY23 and early works commencing early CY24



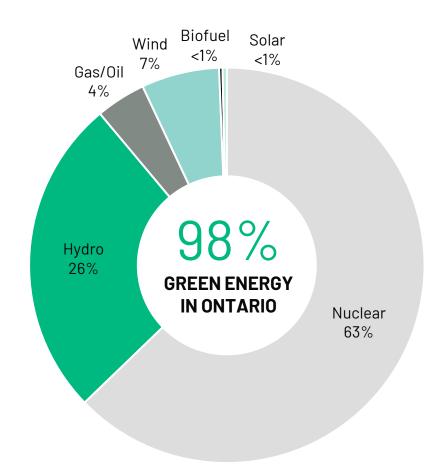


# 4. LOW CARBON Lithium



Low carbon process footprint enabled by Ontario's green power network

- Targeting the supply of highly competitive lithium products across all key dynamics: quality, cost, environmental, emissions, community
- Proximate to Hydro One hydro power interconnector providing access to environmentally responsible power
  - SC6 Concentrator
  - Thunder Bay Converter
- Evaluating combination of process water recycling technologies and dry tailing stacking to minimise fresh water consumption
- Ontario hosts a thriving agricultural industry that supports other industries such as mining with biofuels and seasonal staff
- Recent roll-out of the 2022 EU taxonomy for renewable power and sustainable finance will enable major private investment across the Lithium/EV space



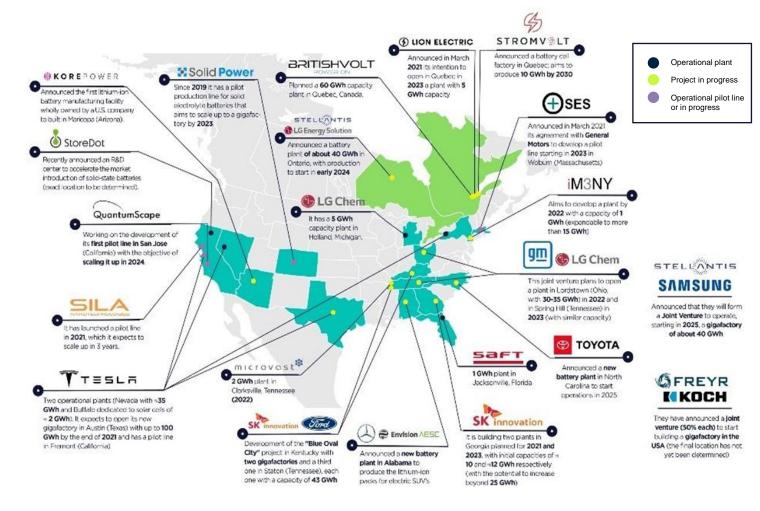


# 4. LOW CARBON Lithium



### Low carbon transport footprint enabled by proximity to future potential customers

- The future is electric North America is accelerating commitment to the Gigafactory industry
- Rapid growth by OEM's and battery companies to establish and scale up onshore production to gigawatt levels in support of the electric vehicle revolution
- GT1 strategic location in the heart of the North American battery ecosystem delivers low carbon transport footprint for essential lithium products







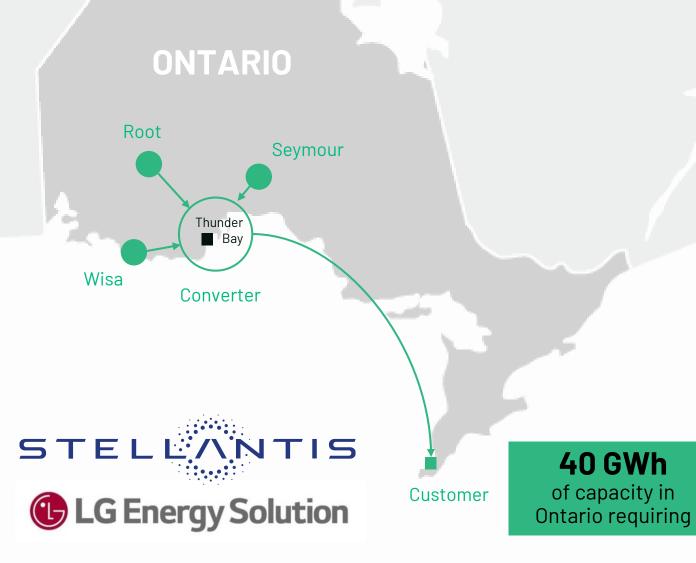
# 4. LOW CARBON Lithium



On the doorstep of the recently announced US\$4.1B lithium-ion battery production plant



Ideally positioned within the Ontario battery ecosystem to become the local lithium supplier of choice







Root boasts significant along-strike and down-dip potential

Exploration target 20 to 24 Mt @ 0.8 to 1.5% Li<sub>2</sub>0

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. See Appendix Exploration target

- Down dip grade continuity test confirmed 67m @ 1.7% Li<sub>2</sub>0 <sup>1</sup>
- Patented Claims (landowner) over McCombe have simplified development process
- Implicit modelling has highlighted a pegmatite swarm with significant widths and grade at McCombe
- Planned drilling program in H2 CY22



1. Refer to ASX release dated 8 November 2021, "Prospectus". Green Technology Metals confirms that it is not aware of any new information or data that materially affects the information included in the Prospectus. All material assumptions and technical parameters underpinning the estimates in those releases continue to apply and have not materially changed.



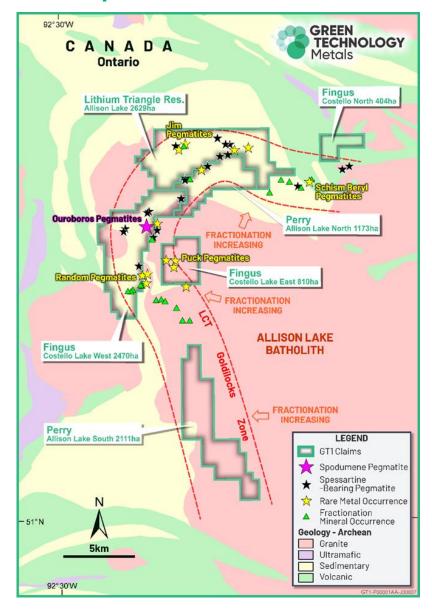


Allison Batholith highly prospective for lithium

- Highly prospective for evolved Lithium type pegmatites
- Numerous pegmatite swarms mapped along logging roads, with more to be mapped
- F.W. Breaks commented

"The Allison Lake batholith represents an important **new exploration target** for rare-element mineralization and is the **largest** such granite thus far documented in **Ontario**."

• Ouroboros Pegmatites hosting **spodumene** mineralisation were located, proving lithium rich pegmatites exist in the corridor







Wisa is strategically located 8km from the US border

- Tenement base that covers 18.9km<sup>2</sup>, historically an under-explored area
- Exploration target 8 10 Mt @ 0.8 to 1.5% Li<sub>2</sub>0

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. See Appendix Exploration target

- Multiple zones North Zone displays sheeted south dipping pegmatites open at depth and South Zone displays dipping pegmatites
- Accessible established all seasons road 40km from Trans Canadian Highway







Expanded 35kHa total land package delivers potential long term supply pipeline

- Phase 1, 2 and 3 of the ongoing drill program at Seymour is expected cover a total 73 holes and ~13,000 km and deliver significant progressive upgrades to the existing Mineral Resource estimate
- Early assay results have affirmed prospective nature of GT1's original claims
- Secured additional claims around Seymour and Root, the new Allison prospect and Solstice claims (containing the project areas Pennock Lake, Root Bay, Superb Lake and Gathering Lake)
- Accelerated, targeted exploration across the broader project portfolio provides outstanding potential to further grow resources rapidly and substantially





# INVESTMENT Highlights



### **BEST-IN-CLASS LITHIUM TEAM**

Board and management team with proven track record of rapidly advancing and delivering lithium projects globally



### **FLAGSHIP SEYMOUR MINE PROJECT**

Aggressive three-phase drilling program to rapidly build critical-mase resource inventory and progress to mine evaluation



### **FAST-TRACKED VERTICAL LITHIUM DEVELOPMENT**

Baseline environmental and mine permitting studies commenced with multiple LiOH converter sites selected in Thunder Bay



### **LOW CARBON LITHIUM**

Ontario's extensive hydro power generation supports strong capability to deliver highly demanded, low carbon lithium products



### **EXTENSIVE RESOURCE UPSIDE**

Multiple potential lithium mine projects to be advanced across a large-scale, strategic Ontario landholding





# **CONTACT** Details

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SHARE REGISTRY

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# **APPENDIX** Mineral Resource estimate

### Seymour Mine Project

Seymour <sup>1</sup>				
Area	Category	Mt	Li <sub>2</sub> 0(%)	$Ta_2O_5(ppm)$
North Aubry	Indicated	2.13	1.29	210
North Aubry	Inferred	1.70	1.50	189
South Aubry	Inferred	1.00	0.80	128
Total		4.83	1.25	186

<sup>1.</sup> For full details of Mineral Resources estimates, please refer to ASX release dated 8 November 2021, "Prospectus". Green Technology Metals confirms that it is not aware of any new information or data that materially affects the information included in the Prospectus. All material assumptions and technical parameters underpinning the estimates in those releases continue to apply and have not materially changed.



# **APPENDIX** Exploration Targets

#### **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 & 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 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**

All exploration targets will be tested by field mapping and drilling over a period of 24 months



# **APPENDIX** Competent Persons Statement

The information in this presentation that relates to Exploration Results and Mineral Resources for the projects in which the Company has tenure over was first released in the Company's prospectus lodged with ASIC on 16 September 2021 (Prospectus) in respect of its initial public offer of shares on ASX. The Company confirms that it is not aware of any new information or data that materially affects the information in the Prospectus and that the material assumptions and technical parameters underpinning the Mineral Resource continue to apply and have not materially changed.

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.

The information in this Presentation that relates to the Exploration Target at Wisa 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.



