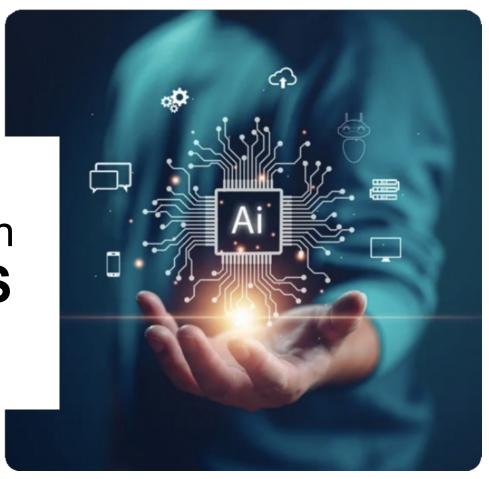


# Securing North American CRITICAL MINERALS

RARE EARTH ELEMENTS & GALLIUM DEPOSIT in Ontario, Canada



CSE: VLTA | FRA: DOW voltametals.ca October 2025

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Certain statements contained in this presentation constitute forward-looking statements within the meaning of Canadian securities legislation. All statements included herein, other than statements of historical fact, are forward-looking statements which may include, without limitation, statements about the Company's plans for its investments and properties; the Company's business strategy, plans and outlook; the merit of the Company's investments and properties; timelines; the future financial performance of the Company; expenditures; approvals and other matters. Often, but not always, these forward looking statements can be identified by the use of words such as "estimate", "estimates", "estimated", "potential", "open", "future", "assumed", "projected", "used", "detailed", "has been", "gainn", "upgraded", "offset", "limited", "contained", "reflecting", "containing", "remaining", "to be", "periodically", or statements that events, "could" or "should" occur or be achieved and similar expressions, including negative variations.

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Under the terms of NI 43-101, Andrew Tims, P.Geo., is Volta's Qualified Person. Mr. Tims has 30 years experience working in all aspects of mine discoveries and, mine development, and he has reviewed and approved the technical information contained in this presentation.

### USE OF RARE EARTH ELEMENTS

### **V**LTA

#### PERMANENT MAGNETS

#### **Essential for Current and Future Technologies** in modern society and Defense



Robotics & Al



Electric Vehicles / Wind / Solar



National Security / Defense / Military



Communications





















## DOMESTIC SUPPLY OF RARE EARTH ELEMENTS IS AN INCREASED SECURITY ISSUE





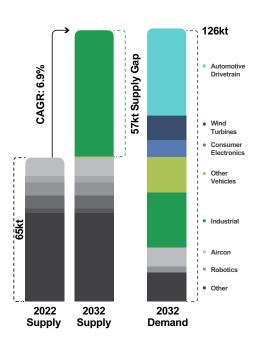
China controls **90%** of the downstream market and **60%** of mining of Rare Earth Elements

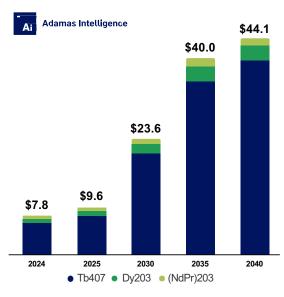


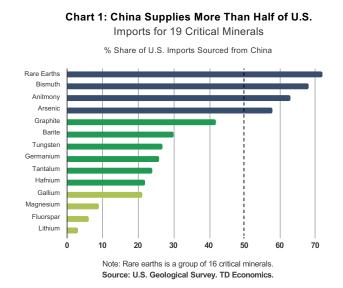
Global magnet rare earth oxide consumption will quadruple from US \$9.6B in 2025 to US \$44.1B by 2040



China is the leading producer of **30 out** of **50 US critical minerals**, with Rare Earth Minerals at the top







#### Source

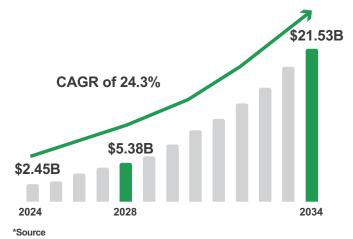
Arafura internal Supply Demand forecast referencing Wood Mackenzie Rare Earths Market Study, July 2022; | General Administration of Customs of China via Balinfo January 2023, Roskill 2021
Supply is primary supply, including monazile and excludes secondary source of NdPr supply from waster mapnet production | Growth to 2032 calculated off a base of 10.5 million EVs sold in 2022 and forecast production based on implied EVs produced giver NdFe9 alloy demand from automotive driverains and assuming 25x OT NdFe98 alloy to such page falloy is used per EV sold | EVs NdFe9 alloy 64x, Phytofiel Electric Vehicles (RFEV) and Plug-in Hybrid Electric Vehicles (RFEV).

### **Gallium**

#### VØLTA METALS

### Securing Critical Minerals to Supply Defense & Al

- Sallium market fundamentals remains strong given supply constraints.
- Sallium Nitrate is needed for **semiconductors**, making Al more efficient.
- Rare Earths and Gallium are essential for military applications, power, radar, telecommunications and medical uses.
- Total gallium market predicted to increase from US\$2.45 billion in 2024 to
   US\$21.53 billion by 2034 (researchmarkets.com)



researchandmarkets.com | Gallium Global Market Report 2024 - January 2024

- **US and European Defense stocks have risen** sharply amid global tensions, increasing military spending into hundreds of billions of dollars.
- Canadian gallium and rare earths could be expected to be in strong demand as Canadian, US and European military expenditures grow
- Gallium is indispensable for microelectronics and optoelectronics. The metal is combined with arsenic to produce semiconductors, which are required for the manufacture of high-performance chips as well as solar cells and light-emitting and laser diodes.
- Gallium is used in copper-indium-galliumselenide solar cells (CIGS). It alloys with iron, yttrium, lithium, magnesium and gadolinium to give materials magnetic properties.

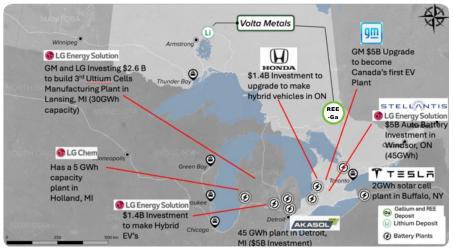


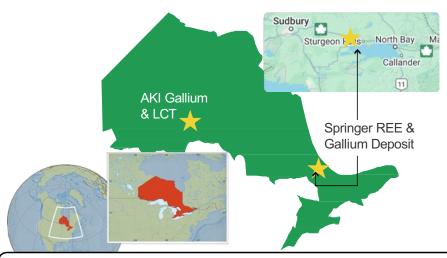


### **Volta's Projects - Location**

#### VØLTA METALS

### World Class Infrastructure, Easy Access to Market











- Ontario announced \$500M Critical Mineral Processing Fund
- Paved Road and Power lines through the property
- Crystal Falls Power Generating dam is 7km from the resource.
- Sturgeon Falls Dam and Railway station are 8.5km from the project site.
- Fostering constructive relationships with local First Nations Communities.

### **SPRINGER** RARE EARTH AND GALLIUM DEPOSIT



*Tier 1 Location -* ~5,000Ha (50km²) – Patented claims over deposit (includes surface rights)

#### **Access**

Paved road to the property – 1hr from Sudbury, 30 minutes from North Bay. Power lines through property. Low-cost Exploration & Development

#### **Advanced Project**

Mineral Resource Estimate ("MRE") **16.9Mt @ 1.15% TREO open** for expansion in all directions – 50-100mt MRE potential in the short term, additional upside from gallium not reflected in MRE.

#### **High Value**

**21%** is high payable magnet rare earth elements, made up of **Dysprosium**, **Preseodymium**, **Neodymium** and **Terbium**.

#### **Low Thorium content**

Crucial for permitting, tailings and concentrate transport

#### **High-Grade Intercepts**

**157m @ 1.43% TREO** – deepest hole finished in **12m @ 4.96% TREO** – no follow up.

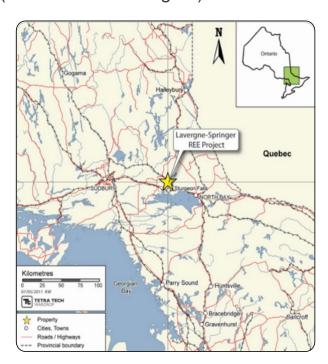
#### **Gallium intercepts**

Thick zones intersected BUT never modelled and/or followed up e.g. **87.5m returning 103g/t Ga<sub>2</sub>O<sub>3</sub>** (higher grade than N.America's largest unmined Ga deposit, Cordero cut-off grade is 30ppm, and avg. grade is 47.7ppm).

Potential for >10 Mt Ga Resource

#### High Profile Among all REE's in NA

One of 21 REE Projects with MRE in North America (177 total). Springer ranks 12th in terms of TREO grade profile, with the potential to rise to 8th with the gallium included, and ranks 15th in terms of tonnes, with further upside potential.



### **MANAGEMENT & ADVISORS**





**Kerem Usenmez** 

Dicensed Geological Engineer (ON & MB) with >25 years of global experience with majors and juniors

Notation of Metallum, advanced Zinc & Copper Project into Feasibility and IBA Stage in Ontario

Member of the board of the PDAC, and chairs the Securities Committee

M.Sc., P.Eng., Director, President and CEO



**Dr. Fred Breaks** 

Ph.D., Technical Advisor

- Rare Earths and lithium expert, discovered the two largest Lithium-rich rare element deposits (Li-Ta-Rb-Cs) in Ontario: Separation Rapids Pegmatite of Avalon Advanced Materials, and Pakeagama Lake Pegmatite of Frontier Lithium.
- Spent 29 years at the Ontario Geological Survey where he ran Operation Treasure Hunt and headed a regional mapping project predominantly targeting Rare Earths and LCT pegmatites.
- Has 118 publications at the Ontario Geological Survey and external publications.



**Alastair Neill** 

P.Eng., MBA, Advisor – Metallurgy

- Over 30 years of experience in REE separation, processing, and sales to global markets Sourced REE to and from China, and managed joint ventures
  - with various Asian partners Director of Critical Minerals Institute (CMI) in Canada
  - Note: Holds Materials Engineering Degree from Western University and an MBA from Schulich School of Business at York University



**Brad Boland** 

CPA, CMA, Chief Financial Officer

- >25 years of mining finance executive experience with majors and juniors, including Goldcorp, and Kinross
- Contributed securing >\$1B combined equity, debt and project finance for mining ventures



Steve Stakiw Advisor - Capital Markets

- Over 30 years in the mining sector, specializing in capital markets
- Recently the CEO of Element 29 and Senior VP at New Pacific Metals
- Formerly VP of a Zinc Producer, part of the team that grew the company from junior to a major producer with over \$1B market cap

#### **BOARD**



Dr. Mark Cruise

- Professional geologist with >30 years of international experience from exploration to production.
- 🔰 Co-founded and/or led several billion-dollar TSX-V, TSX and NYSE American listed exploration and mining companies.
- Independent director for Velocity Minerals, NiCAN Ltd, BP Silver and Bunker Hill Mining

PGeo, ICD.D, Chair and Director



Saga Williams

B.A., LLB, Director

Ms. Williams is Anishinaabe, a member of Curve Lake First

Nation, and was an elected Councillor for her community.

Has been on negotiation teams that have successfully settled over \$1 billion in agreement and Adjunct Professor at Osgoode Hall Law School

- Has worked on Indigenous community engagement and
   negotiations to support national energy and mining projects across Canada
- Sits on a number of boards including Fury Gold, NiCan Ltd. and Nations Royalty



**Fady Mansour** 

CA Director

- Managing Partner of Ethical Capital Partners, a private equity firm.
- Partner of the Ottawa based criminal law firm Friedman Mansour, LL, and a member of the Law Societies of Ontario, Alberta, and the NWT.
- Adjunct Professor in the Faculty of Common Law at the University of Ottawa since 2019.



mine Homma

P.Eng., ICD.D, Director

- Mining executive with over 35 years of experience including engineering, mine operations, corporate development, projects and construction.
- Former CEO of Crowflight Minerals, Kria Resources and Crocodile Gold.
- Chair and Director at 1911 Gold and NiCAN Ltd. as well as a director of Silver X Mining and Fury Gold.



**Brad Humphrey** 

Director

- >25 years of international mining experience, varying from underground contract miner to CEO.
- Worked for Morgan Stanley, Raymond James, CIBC World Markets and Merrill Lynch as the North American Precious Metals Analyst and Managing Director for Research.
- Currently President and CEO of NiCAN Ltd., sits on the board of Black Swan Graphene, and was the CEO of QMX Gold, which was acquired by Eldorado Gold.

### **OWNERSHIP & CAPITAL STRUCTURE**



Dedicated Management – Insiders participated in every financing round, increasing ownership.



Local Management team resulting significantly lower overhead & burn rate compared to peers.

### PEER COMPARATIVES RARE EARTH COMPANIES



	VOLTA METALS	TO DEFENSE METALS	GEOMEGA Rave Earths - Rathring - Bacycling	Critical Metals Corp	TMR TEXAS MINERAL RESOURCES CORP
Exchange	CSE	TSXV	TSXV	NASDAQ	OTCQB
Market Cap	\$20M	\$100M	\$55M	\$1.6B	\$122M
52 week Share Price⁴	\$0.02 - \$0.28	\$0.08 - \$0.43	\$0.07-\$0.47	\$1.23 - \$32.15	\$0.21 - \$3.02
Shares on Issue	102M	336M	149M	107M	79M
Project Name	Springer-Lavergne	Wicheeda	Montviel	Tanbreez	Round Top
Project Location	ON (1hr from Sudbury via paved road)	BC (80km from Prince George via logging roads)	QC (100km from Lebel Sur via logging roads)	Greenland (20km north of Qaqortoq no road)	Texas, USA (136km southeast of El Paso)
Project Size (Ha)	5,000	11,800	9,910	1,800	3,781
Stage	Historic MRE (2012)	DFS	Historic MRE (2011)	PEA (2025)	PEA (2011)
Gallium (Ga)	Yes (>10Mt target at 65g/t Ga - Non 43-101)	No	No	Yes, not defined	Yes, 36,500 t contained Ga (USGS)
Indicated MRE	3Mt @ 1.21% TREO (Cutoff 1.0%)	27.8Mt @ 2.86% TREO (Cutoff 0.5%)	82.4Mt @ 1.5% TREO	25Mt @ 0.37%TREO	171Mt TREO
Inferred MRE	9.4Mt @ 1.25% TREO (Cutoff 1.0%)	11.1Mt@ 1.02% TREO (Cutoff 0.5%)	Unknown	19.5Mt @ 0.39% TREO	215Mt TREO
Deposit Open	Yes	No	No	No	No

According to S&P Global, only 21 of all 177 REE projects in North America host a reserve or resource base with defined grades (TREO). Springer would:

1) rank 12<sup>th</sup> in terms of TREO grade profile, with the potential to rise to 8<sup>th</sup> with the gallium included; 2) rank 15<sup>th</sup> in terms of tonnes, with further upside potential.





#### For further information contact:

Kerem Usenmez, M.Sc., P.Eng. President & CEO



kusenmez@voltametals.ca



(416) 919-9060



VOLTA Metals Ltd. 130 King Street W, Suite 3680 Toronto, Ontario Canada M5X 1B1

#### RARE EARTH AND GALLIUM DEPOSIT



#### **Growth Potential**

Mineralization continuous along approx. 800m strike. Geologically appears to be part of a significantly larger system.

#### High grade

Thick continuous zones of mineralization from surface:

157m @ 1.43% TREO 87.5m @ 102.7 g/t Ga<sub>2</sub>O<sub>3</sub>

One of the last holes finished in 12m @ 4.96% TREO in carbonatite – no follow up.

#### **LREO Dominant**

Consists of of mainly lanthanum, cerium and neodymium

#### **Next Steps**

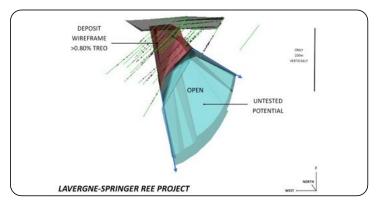
Excellent potential to increase grade / tonnes with additional drilling.

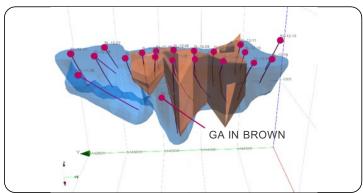
Excellent potential to define a ~50 to 100Mt+ deposit at ~1-2% TREO.

#### **Gallium Model**

Thick zones of Gallium (Ga) also intersected BUT never modelled –eg 102.7 g/t over 87.5m, 83g/t over 88m.

Mineral system analysis suggests >10Mt Ga exploration target

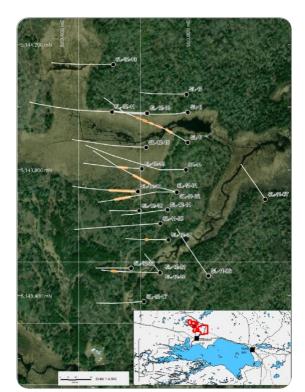




#### VØLTA METALS

### **GALLIUM INTERCEPTS**

Borehole	From	То	Interval (m)	Ga <sub>2</sub> O <sub>3</sub> g/t	
SL-11-01	132.4	219.9	87.5	102.7	Fe Oxide + Carbonate
SL-11-02	213.8	277.0	63.2	96.2	Altered Syenite
SL-11-03	86.6	94.1	7.6	80.1	Altered Syenite
SL-11-03	101.4	113.4	12.0	102.2	Hematized Syenite
SL-11-03	135.9	153.2	17.3	97.2	Hematized Syenite
SL-11-03	178.6	189.1	9.0	77.7	Hematized Syenite
SL-11-03	209.9	223.9	14.0	95.8	Hematized Syenite
SL-11-03	247.9	252.9	5.0	97.3	Hematized Syenite
SL-12-08	19.0	37.0	18.0	101.3	Strongly Altered Granitoid
SL-12-08	37.0	125.0	88.0	83.3	Int Hm and Cb Brex, together 64 ppm Ga over 106 m
SL-12-09	66.0	102.0	36.0	77.0	Int Hm and Cb Brex Granotoid
SL-12-18	94.7	101.7	7.0	86.4	Weak to Moderately Altered Granite
SL-12-20	200.6	214.6	14.0	94.1	Strongly Altered Brex Granite -near massive Cb Veins



- ▶ Historic Drilling (22 holes for 6,000m 20 holes hit mineralization).
- Structure dips to east, open at depth and along strike.
- Carbonatite intrusion, only upper breccia has been drilled.
- REE mineralization outcrops and extends from surface to over 250m below surface and is open.

### RARE EARTH AND GALLIUM DEPOSIT



### Metallurgy

- Recent met work confirms clean mineralogy and potential for cost-effective downstream processing (up to 40% TREO concentrate), due to coarse grained mineralization (synchesite).
- Radionuclide levels are negligible − i.e. non-radioactive = simpler to transport/waste processing etc.
- 75-80% of synchesite liberated in lab-scale testing suggesting easier process to obtain concentrate (lower cost).
- There is ~US\$310 (NdPr ~\$260) of Rare Earth Elements in each tonne of the ore, near or equivalent value of 3g/t Au at current NdPr price of 445,000 CNY/mt at current gold price.
- Onfirmed 80% recovery to a Rare Earth chloride Product.





### RARE EARTH AND GALLIUM DEPOSIT

	TREO Basket V	alue		
		SPRINGER		
Rare Earth Oxides	REO Price (US\$/kg)	%TREO	Basket Value	
Terbium	1,105.6	0.09%	0.950	
Lutetium	767.7	0.00%		
Dysprosium	366.4	0.47%	1.730	
Holmium	74.9	0.09%	0.064	
Praseodymium	70.3	4.73%	3.323	
Neodymium	70 7	15.90%	11.246	
Gadolinium	39.3	1.07%	0.422	
Erbium	41.9	0.17%	0.072	
Europium	248.8	0.45%	1.122	
Ytterbium	13.8	0.11%	0.015	
Yttrium	6.3	2.25%	0.143	
Samarium	2.0	1.89%	0.038	
Lanthanum	0.8	26.70%	0.219	
Cerium	0.9	46.08%	0.437	
Thulium	-	0.00%	-	
"Other"		0.00%	-	
Basket price (US\$/kg)			19.8	
Basket price (US\$/t)			19,782.1	
Reserves + Resources (Mt)			16,90	
Contained TREO (Mt)			0,20	
Basis of Calculations			Resources	
Average TREO Grade			1.16%	
In-ground value (US\$/t material)			230	

Table 7.1	List of Elements and Oxides Associated with REE Mineralization			
Element	Element Acronym	Common Oxides		
LREO				
Lanthanum	La	$La_2O_3$		
Cerium	Ce	Ce <sub>2</sub> O <sub>3</sub>		
Praseodymium	Pr	$Pr_2O_3$		
Neodymium	Nd	$Nd_2O_3$		
Samarium	Sm	Sm <sub>2</sub> O <sub>3</sub>		
HREO				
Europium	En	En <sub>2</sub> O <sub>3</sub>		
Gadolinium	Gd	$Gd_2O_3$	TREO	
Terbium	Tb	$Tb_2O_3$		
Dysprosium	Dy	$Dy_2O_3$		
Holmium	Но	Ho <sub>2</sub> O <sub>3</sub>		
Erbium	Er	Er <sub>2</sub> O <sub>3</sub>		
Thulium	Tm	$Tm_2O_3$		
Ytterbium	Yb	$Yb_2O_3$		
Lutetium	Lu	Lu₂O₃		
Yttrium	Υ	$Y_2O_3$		

Basket Price of In-ground material = U\$\$230/tonne (equivalent of ~2moz @ 4g/t Au), excluding Gallium

### **NEXT STEPS**



- Confirm presence of the high-grade primary carbonatite zone discovered at the end of last program (4.96% TREO over 12m), and extension zones to the North
- Further in-fill drilling to confirm REE grade continuity, presence of Ga, geotechnical data for mining studies and complete an updated resource estimate.
- Target significant North American incentives to support critical minerals and desire for local mining to support Rare Earth and critical mineral development.





### **Rare Earth Metals Market**



- Rare earth elements (REE) are key enablers for the ongoing energy and environmental transition as they are critical raw materials in many low-carbon technologies. REEs are widely used in high-tech technologies, medical devices, and military defense systems, and are especially indispensable in emerging clean energy.
- Slobal REE mineral resources mainly mainly occur in carbonatite and distributed in China, Brazil, Australia, and Canada, 42% of REE deposits are from medium-sized mines (resources <0.1 Mt REO) – Zhou, 2017 https://www.mdpi.com/2075-163X/7/11/203
- REE Market size was valued at US\$ 11.78 Billion in 2024, and is set to reach US\$ 33.5 billion by the end of 2037, expanding around 8.3% CAGR during the forecast period (2025-2037) (researchnester.com)
- The Light segment is estimated to gain largest market share of 63% in the year 2037. Light rare earth metals are commonly used in electronics and semiconductors due to their unique magnetic and electrical properties

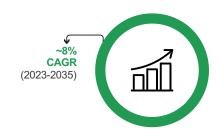
### Global Market Analysis, by Type (in %), 2035



### Key Players in the Market

- · Lynas Corporation (Australia)
- · China Northern Rare Earth Group (China)
- Iluka Resources (Australia)
- · MP Materials (United States)
- China Minmetals Corporation (China)
- Arafura Resources (Australia)
- · Shenghe Resources Holding Co., Ltd. (China)

#### **Growth Rate**



#### **Growth Drivers**

- Technological Advancements
- Growing Demand for Consumer Electronics



#### **Challenges**

- · Environmental Impact
- Price Volatility





### **Lithium Sector Update**





#### **Majors Committing to Lithium**

- Rio Tinto acquiring Arcadium Lithium (Oct 2024), premium of 90% to Arcadium's closing price.
- S GM acquires 38% asset-level stake in Thacker Pass for US\$625 million
- Pilbara Minerals announces agreement to acquire Latin Resources at an implied 67% premium



#### **Supply Being Curtailed**

- Sinomine partially suspends petalite mining at its Zimbabwe Bikita Lithium Project (Oct, 2024)
- Pilbara places its 150,000 tpa Ngungaju spodumene plant into care&maintenance (Oct, 2024)
- Mineral Resources defers underground development of Mt Marion, places Bald Hill into care &maintenance (Oct, 2024)
- Albemarle estimates 800kt LCE supply deficit by 2030, implying 20% of demand (Jan, 2023)



### **CATL Prospectus Bullish on Long Term Demand**

- CATL, world's largest battery maker filed prospectus in Feb 2025 for its Hong Kong IPO
- Battery demand forecast 50% higher demand, >4Mt of LCE in 2030, increase of additional 65 commercial scale lithium projects required.



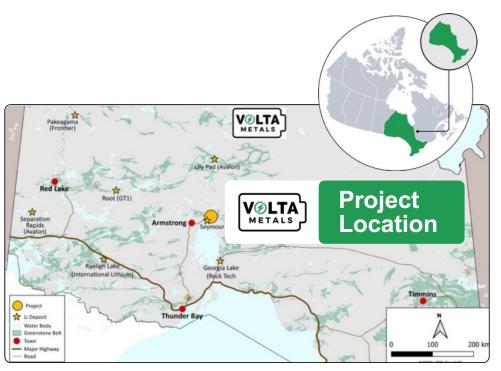
### **Legacy Car Manufacturers**

- Hyundai Invests \$16.7 billion in 2025 into EV development, its largest investment ever in South Korea, \$90B globally by the end of decade
- Toyota is spending \$13.9 billion on plant in North Carolina, one of the largest investments outside Japan.

### **AKI Critical Element Project**

### Strategic Position in NW ONTARIO





Located in the emerging Seymour-Falcon pegmatite field - host to Green Technology Metals (ASX:GT1) Seymour deposit (10.3Mt @1.03% Li2O JORC Resource).





#### Thunder Bay (Major Hub):

Airport, Rail station, Port

#### Armstrong, ON:

- Rail Station
- Airport
- New discovery of Spodumene Pegmatite swarm Fall 2023.
- Inaugural drilling returned up to 1.24% Li₂O over 15.6m.
- Recent channel sampling returned up to 1.59% Li₂O over 8.6m with 78.1 ppm Gallium, 1,970ppm Cesium, and 457ppm Tantalum.
- Permits and First Nations Agreements in place.
- Road accessible from Thunder Bay.

### **LOCATION**



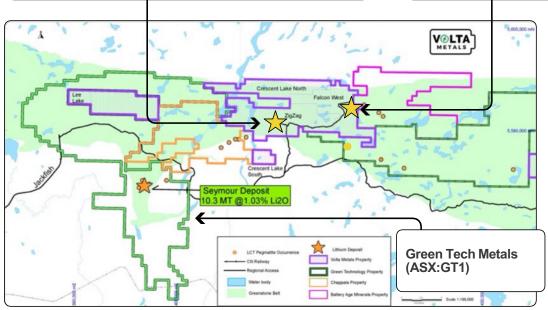
### Confirmed 8km mineralization, with 30km potential

#### **Dempster East Pegmatite**

 Channel samples returned high grade Gallium, Lithium, Cesium and Tantalum. Grades up to 2.98% Li₂O,
 78.1 ppm Ga, 457 ppm Ta, 1,970 ppm Cs

#### **Falcon Far West Pegmatite Cluster**

- Drilling returned grades up to 1.50% Li2O over 5.2m, and 1.24% Li₂O over 15.6m.
- 6 Li-Bearing pegmatites identified to date.



- Newly discovered Li pegmatites define a 300m x 500m mineralized fairway remains open for expansion.
- ▶ Pegmatites are the albite-spodumene-subtype (typically associated with large deposits e.g. Foote Mine, Kings Mountain, NC) and evolving to the west with the highest reported tantalum values in Ontario returning values up to 306 ppm Ta<sub>2</sub>O<sub>5</sub>.
- Multiple targets to follow up.

Readers are cautioned that VOLTA has no interest in or right to acquire any interest in the Green Tech Metals Seymour Project, and that mineral deposits, and the results of any mining thereof (including any revenues derived from such mining), on adjacent or similar properties are not indicative of mineral deposits on VOLTA's properties or any potential exploitation thereof.