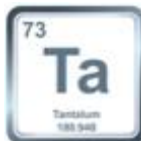
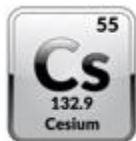




## HIGH-GRADE Canadian CRITICAL MINERALS

Hard Rock LITHIUM,  
CESIUM, TANTALUM &  
GALLIUM & Rare Earths in  
Ontario



CSE: **VLTA** FRA: **DOW**

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March 2025

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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.

# LACK OF SUPPLY: GALLIUM, REE, LITHIUM, CESIUM, TANTALUM



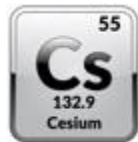
Rare Earths are vital for consumer electronics, defense, and green energy revolution. China controls processing ([https://youtu.be/gyH\\_PvLZoD0](https://youtu.be/gyH_PvLZoD0))



Gallium Nitride (GaN) is replacing silicon in semiconductors, due to its superior efficiency in power conversion. AI demand is growing



Lithium demand is expected to increase due to EV sales, and data centres driven by AI demand



Increasing demand for cesium and cesium compounds from multiple end-use sector is likely to fuel market growth



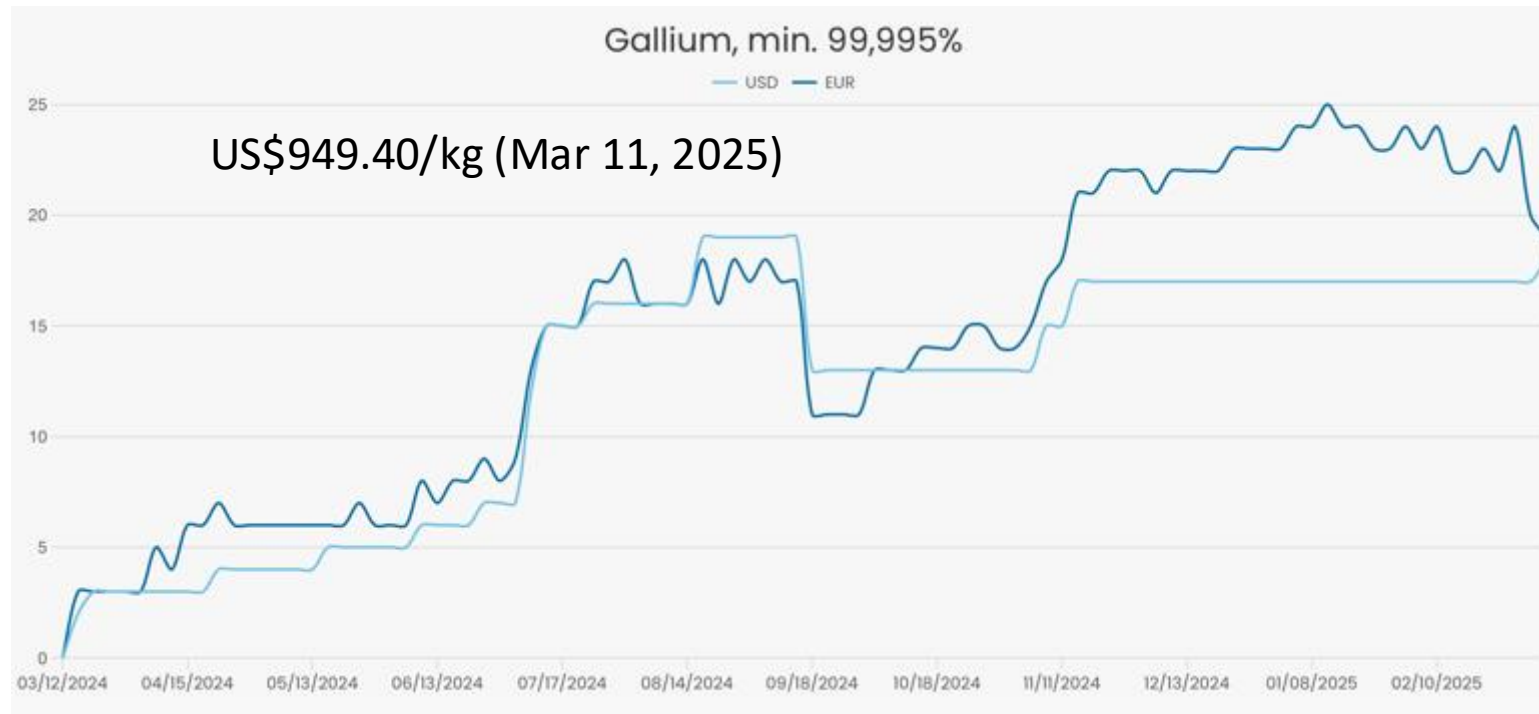
Recent strong growth in demand for tantalum has been driven by rapid growth in the electronics industry. Demand is expected to grow by 4,6% annually, reaching 3 595 tonnes of tantalum by 2029.



# Gallium Facts



- The Cordero Deposit, Nevada is the only North American gallium project with 15Mt at 47.7 ppm gallium, with a cut-off grade at 30ppm.
- Round Top, Texas REE project hosts Gallium with grades of 44ppm.
- The [price of gallium](#) has experienced several sharp increases in recent years due to supply disruptions.
- China currently accounts for 98% of worldwide gallium production.
- Gallium Nitrate is replacing silicon in semiconductors due to its faster response, making AI more efficient.
- On Dec 3, 2024, China announced an immediate ban on the export of multiple critical metals, including Gallium, exacerbating supply chain challenges.



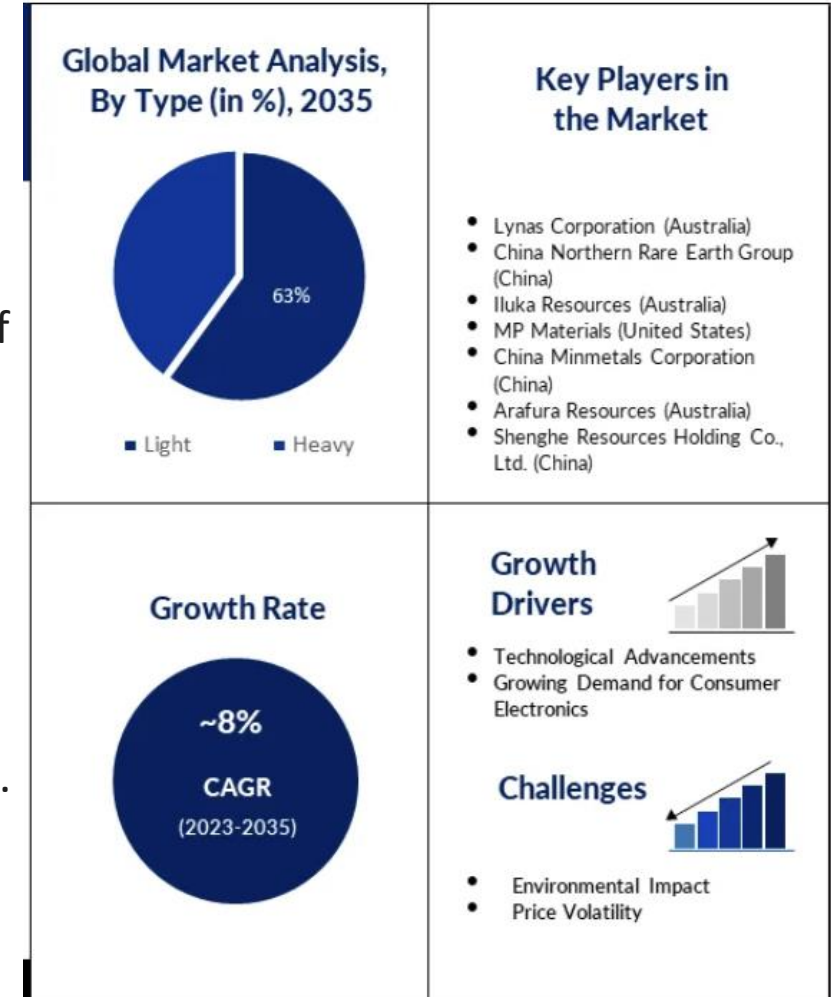
<https://strategicmetalsinvest.com/gallium-prices/>

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# 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. Rare earth elements (REE) are widely used in high technologies, medical devices, and military defense systems, and are especially indispensable in emerging clean energy.
- Global REE mineral resources, totaling 478 Mt REO, mainly are represented in carbonatite and distributed in China, Brazil, Australia, and Canada, in which 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>
- Rare Earth Metals 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)
- In the year 2025, the industry size of rare earth metals is assessed at US\$ 12.57 bil.
- 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



# VOLTA METALS - HIGHLIGHTS



High grade advanced Rare Earth & Gallium Deposit near Sudbury and Lithium, Cesium and Tantalum (LCT) discovery, with Gallium in Northwestern Ontario, Canada.



Experienced leadership team with track record of success.



Large, 135 km<sup>2</sup> permitted property position, REE on patented ground with paved road, high-grade Lithium-Cesium-Tantalum-Gallium and Rare Earths with road access from Thunder Bay and Sudbury, ON.



High grade Lithium: **1.50% Li<sub>2</sub>O** at 5.2m and **1.24% Li<sub>2</sub>O** at 15.6m.  
**Gallium (78.1ppm), Tantalum (457ppm) and Cesium (1,970ppm)** intersected.  
Multiple targets defined over 8km strike.



Road accessible, proximity to expanding North American electric vehicle supply chain.



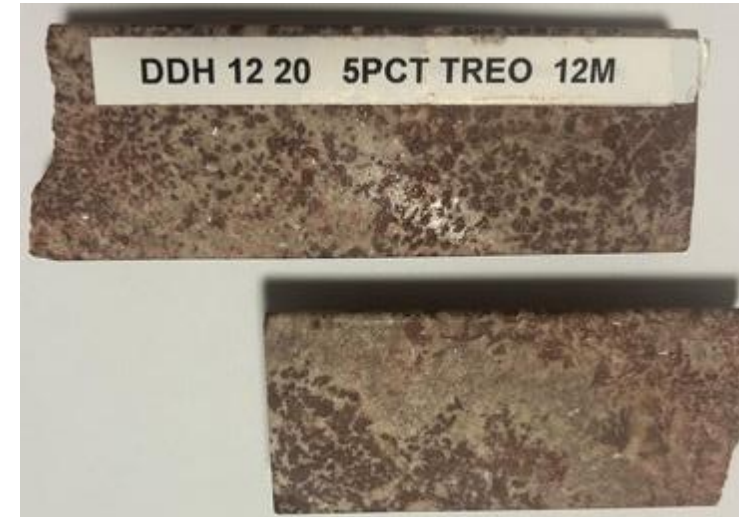


# VOLTA METALS - PROJECTS



## Lavergne-Springer REE & Gallium Advanced Project:

- MRE 17Mt @ 1.15% TREO (0.9% cut-off) 43-101
- 15.6Mt Gallium target at 67ppm
- 1 hr east of Sudbury via paved road, patented ground
- Mineralization open at depth and along strike



## AKI Critical minerals Project

- High grade Lithium, Cesium Tantalum mineralization over 8km strike – open at depth and along strike
- Permitted property with road access from Thunder Bay, ON.
- Multiple targets identified along 11km to test
- Initial drilling confirms mineralization at depth and along strike



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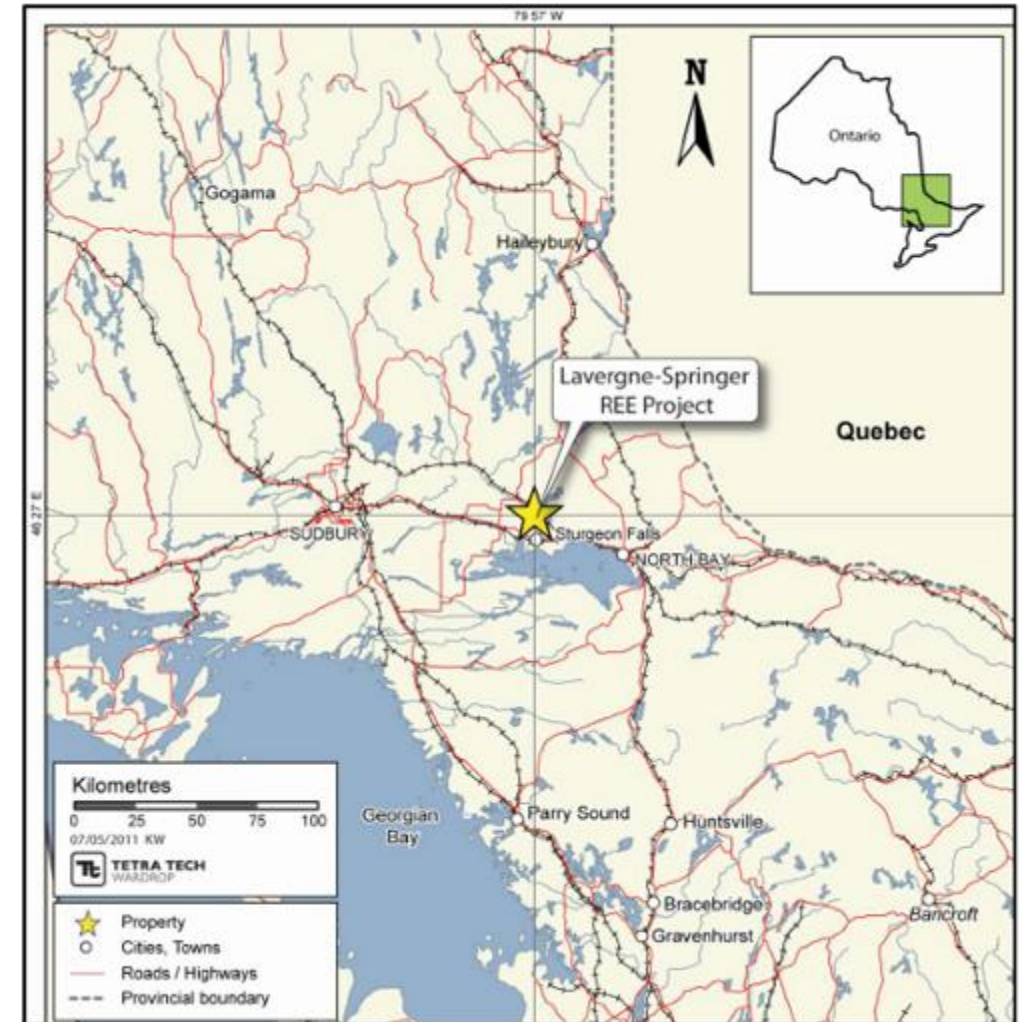
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# LAVERGNE-SPRINGER RARE EARTH AND GALLIUM ADVANCED PROJECT

## LOI Signed for Option to acquire



- **Access:** Paved road to the property – 1hr from Sudbury.
- **Claims:** ~5,000Ha (50km<sup>2</sup>) – Patented over deposit and includes surface land rights – lowers risk.
- **Advanced Project:** Mineral Resource Estimate of 16.9Mt @ 1.15% TREO remains open for expansion including high-grade core.
- **High-Grade Intercepts:** 157m @ 1.43% TREO – deepest hole finished in 12.5m @ 4.5% TREO – no follow up.
- **Gallium intercepts:** Thick zones intersected BUT never modelled and/or followed up eg **76ppm @ 87.5m** (higher grade than N. America's largest unmined Ga deposit, Cordero cut-off grade is 30ppm, and avg grade is 47.7ppm).
- **Low Thorium content:** Crucial for permitting, tailings and concentrate transport

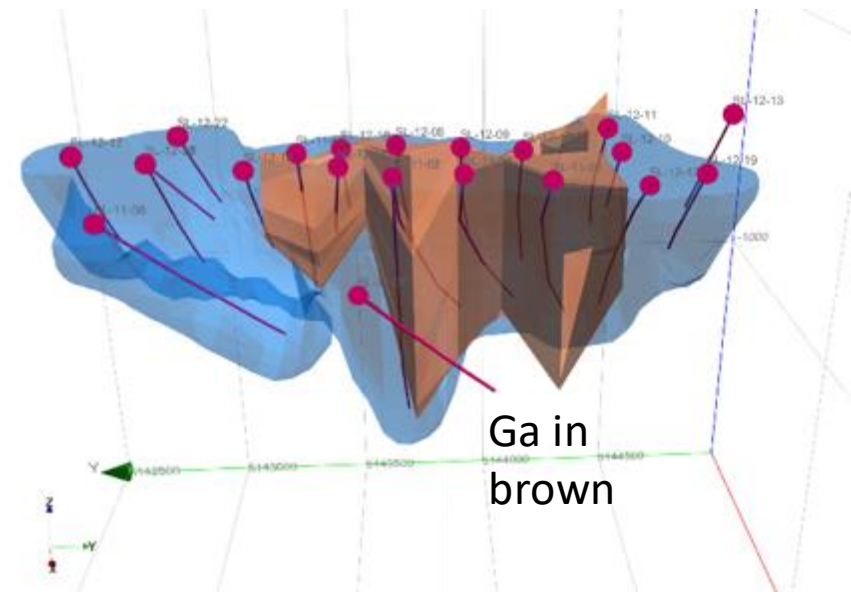
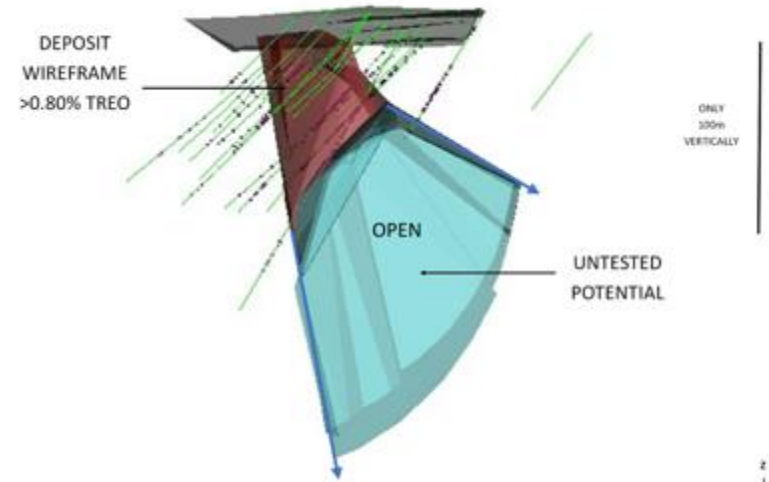




# LAVERGNE-SPRINGER RARE EARTHS AND GALLIUM ADVANCED PROJECT



- **Growth Potential:** Mineralization continuous along c. 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
  - 105m @ 1.15% TREOOne of the last holes finished in 12.5m @ 4.5% 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 76ppm over 87.5m, 72ppm over 63.5m (cf Cordero Deposit, NV largest unmined 1Y Ga deposit in N. America– only 15Mt @ 48ppm. Mineral system suggests >15Mt exploration target



# LAVERGNE-SPRINGER RARE EARTHS AND GALLIUM ADVANCED PROJECT



TREO Basket Value			
Rare Earth Oxides	REO Price (US\$/kg)	%TREO	Basket Value
Canada RE Corp (FKA, FRA) Lavergne-Springer Hard Rock Canada Exploration			
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%	-
<b>Basket price (US\$/kg)</b>			<b>19.8</b>
<b>Basket price (US\$/t)</b>			<b>19,782.1</b>
Reserves + Resources (Mt)			16.90
Contained TREO (Mt)			0.20
<b>Basis of Calculations</b>			<b>Resources</b>
Average TREO Grade			1.16%
In-ground value (US\$/t material)			230

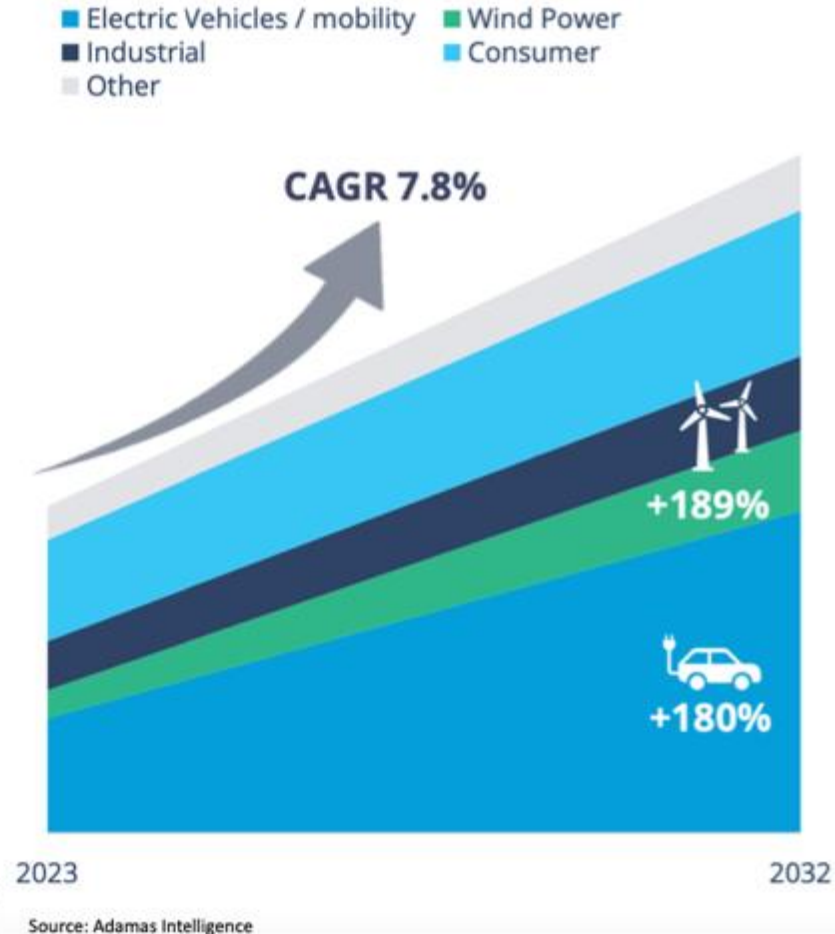
Table 7.1 List of Elements and Oxides Associated REE Mineralization

Element	Element Acronym	Common Oxides	
<b>LREO</b>			<b>TREO</b>
Lanthanum	La	La <sub>2</sub> O <sub>3</sub>	
Cerium	Ce	Ce <sub>2</sub> O <sub>3</sub>	
Praseodymium	Pr	Pr <sub>2</sub> O <sub>3</sub>	
Neodymium	Nd	Nd <sub>2</sub> O <sub>3</sub>	
Samarium	Sm	Sm <sub>2</sub> O <sub>3</sub>	
<b>HREO</b>			
Europium	Eu	Eu <sub>2</sub> O <sub>3</sub>	
Gadolinium	Gd	Gd <sub>2</sub> O <sub>3</sub>	
Terbium	Tb	Tb <sub>2</sub> O <sub>3</sub>	
Dysprosium	Dy	Dy <sub>2</sub> O <sub>3</sub>	
Holmium	Ho	Ho <sub>2</sub> O <sub>3</sub>	
Erbium	Er	Er <sub>2</sub> O <sub>3</sub>	
Thulium	Tm	Tm <sub>2</sub> O <sub>3</sub>	
Ytterbium	Yb	Yb <sub>2</sub> O <sub>3</sub>	
Lutetium	Lu	Lu <sub>2</sub> O <sub>3</sub>	
Yttrium	Y	Y <sub>2</sub> O <sub>3</sub>	

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

## Rare Earths are key ingredient for EV revolution and renewables

- Rare earths are divided into light rare earths (LREOs) and heavy rare earths and include 17 elements with multiple applications (high powered magnets, defence, electronic screens)
- Neodymium and Praseodymium are LREOs that are the essential ingredients for the high-powered permanent magnets used in electric vehicle motors and renewables such as wind turbines.
  - **Each electric vehicle uses 1kg of NdPr oxide**
  - **3MW wind turbine uses 600kg of NdPr oxide**
- Magnet demand is forecast by Adamus to grow at 8% pa compounded from 2023 - 2032
  - Market size is forecast to grow from US\$10.4bn to US\$56.7bn by 2040
  - Pricing also forecast to increase from current levels of circa \$70/ kg for NdPr oxide to \$200/kg.
- Market currently dominated by China
  - Geopolitical push to expand sourcing and processing ex-China
  - New capacity has been developed in Malaysia (Lynas) and also being expanded in the US (Mountain Pass, California and Lynas, Texas), Europe (Solvay in France, Neo in Estonia), Canada and other jurisdictions
  - Significant government funding being committed to critical minerals (rare earths are a "priority" critical mineral in the US and Canada)



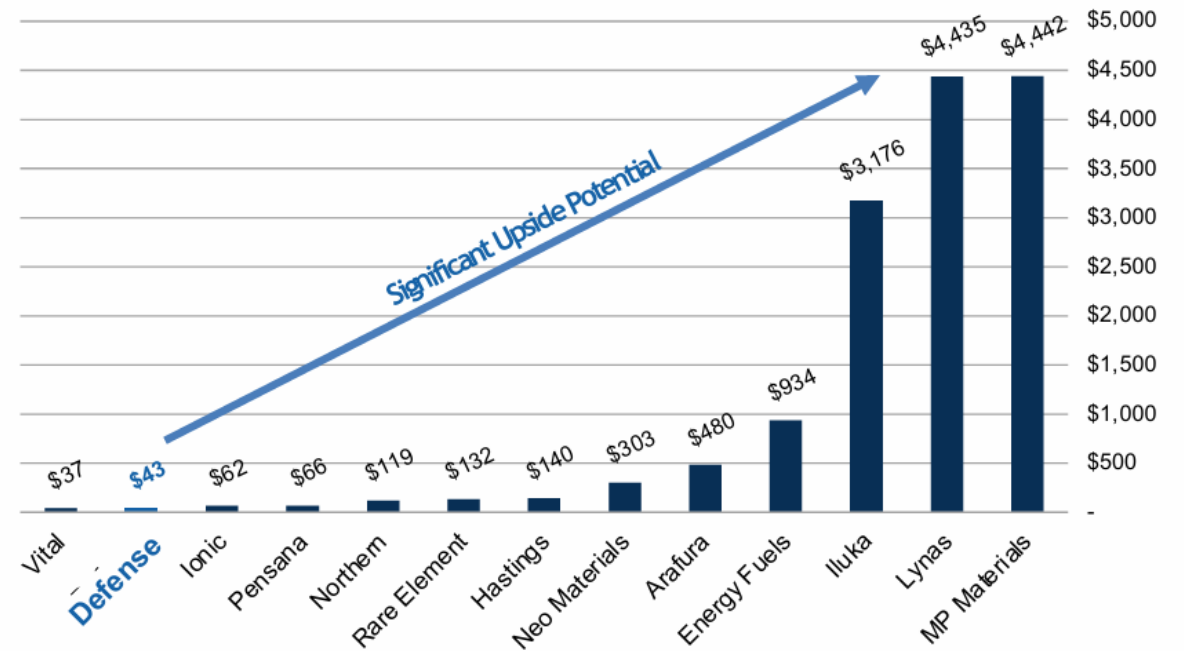


# NEXT STEPS



- Due Diligence is underway
- Further met work – underway, final report expected late March 2025
- Drill testing high grade primary carbonatite zone discovered at the end of last program (5% TREO over 12m), and extension zones to the North
- Further in-fill to rapidly increase inferred to indicated, and add gallium
- Target significant North American incentives to support critical minerals and desire for local mining to support Rare Earth and critical mineral development.

## Market Cap Comparison (US\$M)



# Lithium-Cesium-Tantalum Market



## 2024

- EV Market grew 24% yoy, led by China (CATL Prospectus, Feb 2025)
- Energy storage growth of 26% surging 20% of lithium use
- Battery costs declined 20% to \$115/kwh, close to being par with ICE (BNEF)

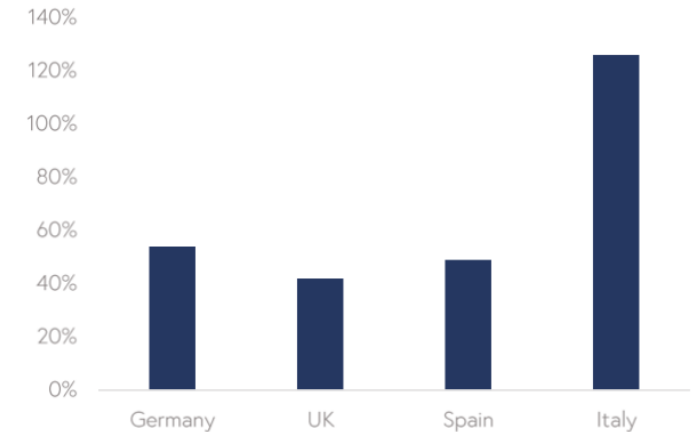
## 2025

- Global EV sales hit 1.2 million in February, 50% rise from last year. First two months in 2025, reached 2.4 million units (RhoMotion):
  - **China:** 1.4 million units sold (+35% YTD)
  - **Europe (EU, EFTA, UK):** 0.5 million units sold (+20% YTD)
  - **North America (USA & Canada):** 0.3 million units sold (+20% YTD)
  - **Rest of the World:** 0.2 million units sold (+35% YTD)

## 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.

January 2025 BEV Sales y/y growth<sup>4</sup>



CATL Prospectus Battery Forecasts & Implied Lithium Demand

2030 CATL Forecast	GWh	LCE (kt)
EV	3,758	3,006
ESS	1,400	1,120
Machinery	100	80
Vessels	160	128
Aircraft	30	24
Others	100	80
<b>Total</b>	<b>5,548</b>	<b>4,438</b>
Consensus Demand		2,800
Difference		1,638
%		59%



# Lithium Sector Update

## Majors Committing to Lithium

- Rio Tinto acquiring Arcadium Lithium (Oct 2024), premium of 90% to Arcadium's closing price.
- 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)

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- 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% Li<sub>2</sub>O JORC Resource**).

Armstrong, ON:

Via Rail Station

Functional Airstrip

Thunder Bay (Major Hub):

Airport, Rail station, Port

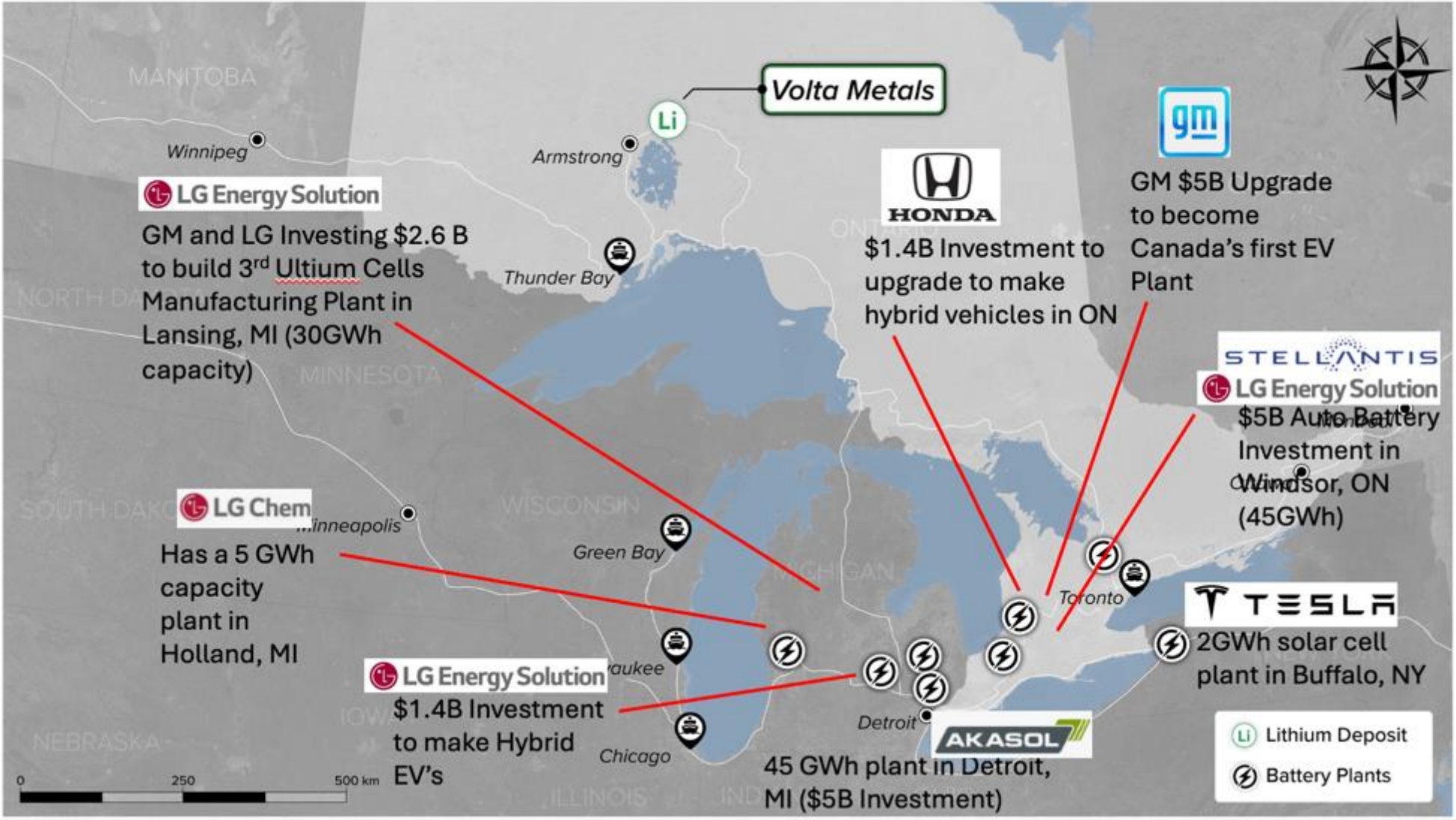
- New discovery of Spodumene Pegmatite swarm Fall 2023.
- Inagural drilling returned up to **1.24% Li<sub>2</sub>O over 15.6m**.
- Recent channel sampling returned up to **1.59% Li<sub>2</sub>O over 8.6m with 78.1 ppm Gallium, 1,970ppm Cesium, and 457ppm Tantalum**.
- Permits and First Nations Agreements in place.
- Road accessible from Thunder Bay.

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# Compelling Location with direct access to Battery and EV Manufacturers



- Excellent Infrastructure:
- Air Strip and Via Rail station in Armstrong. (60km from Li pegmatites)
- Road access from Thunder Bay, ON.
- Thunder Bay - gateway to Battery manufacturing and EV factories.

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

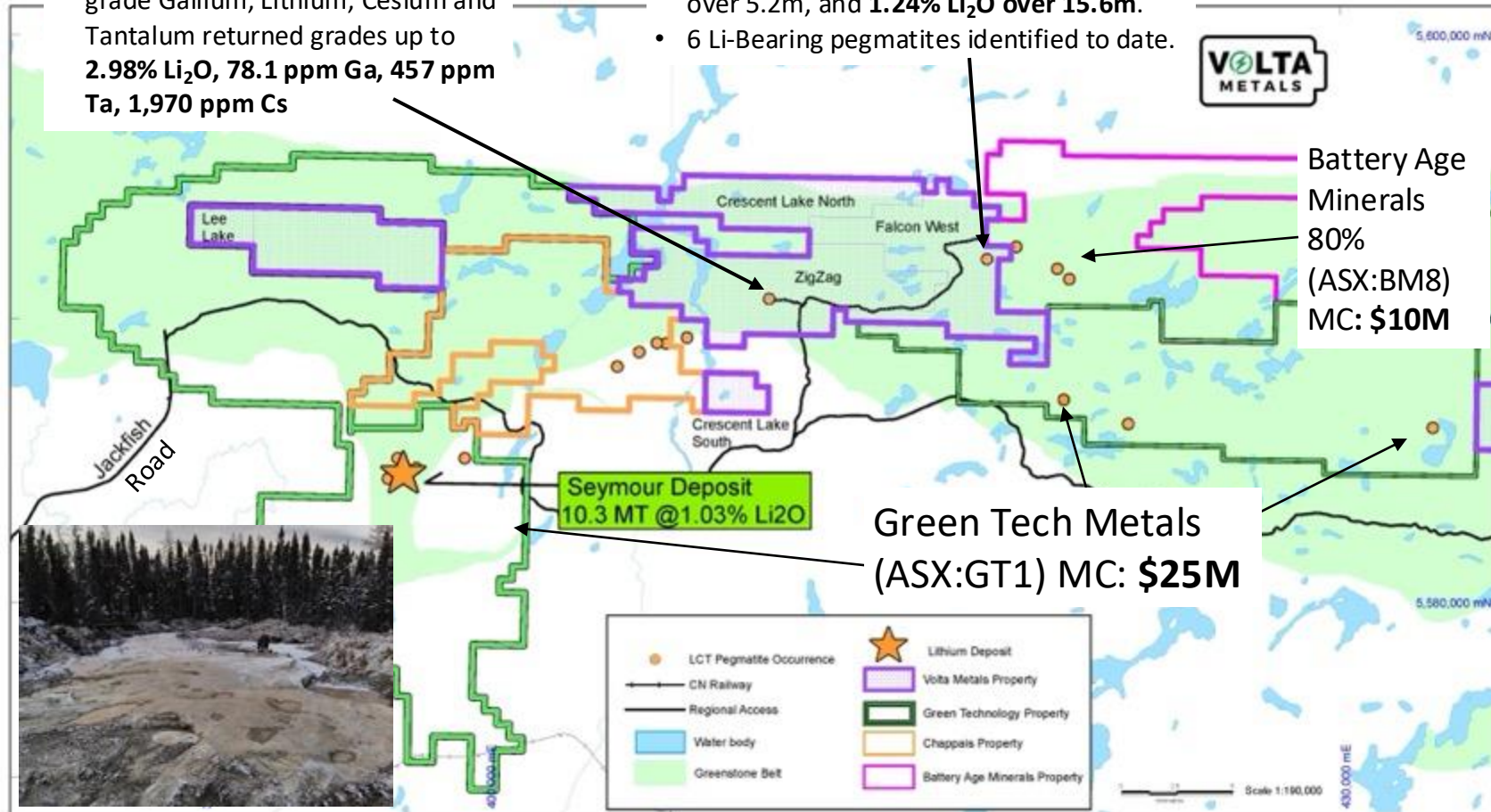


## Dempster East Pegmatite

- Channel samples returned high grade Gallium, Lithium, Cesium and Tantalum returned grades up to **2.98% Li<sub>2</sub>O, 78.1 ppm Ga, 457 ppm Ta, 1,970 ppm Cs**

## Falcon Far West Pegmatite Cluster

- Drilling returned grades up to **1.50% Li<sub>2</sub>O** over 5.2m, and **1.24% Li<sub>2</sub>O** over 15.6m.
- 6 Li-Bearing pegmatites identified to date.



- 130 km<sup>2</sup> land package within the emerging Seymour - Falcon Pegmatite fields.
- 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.

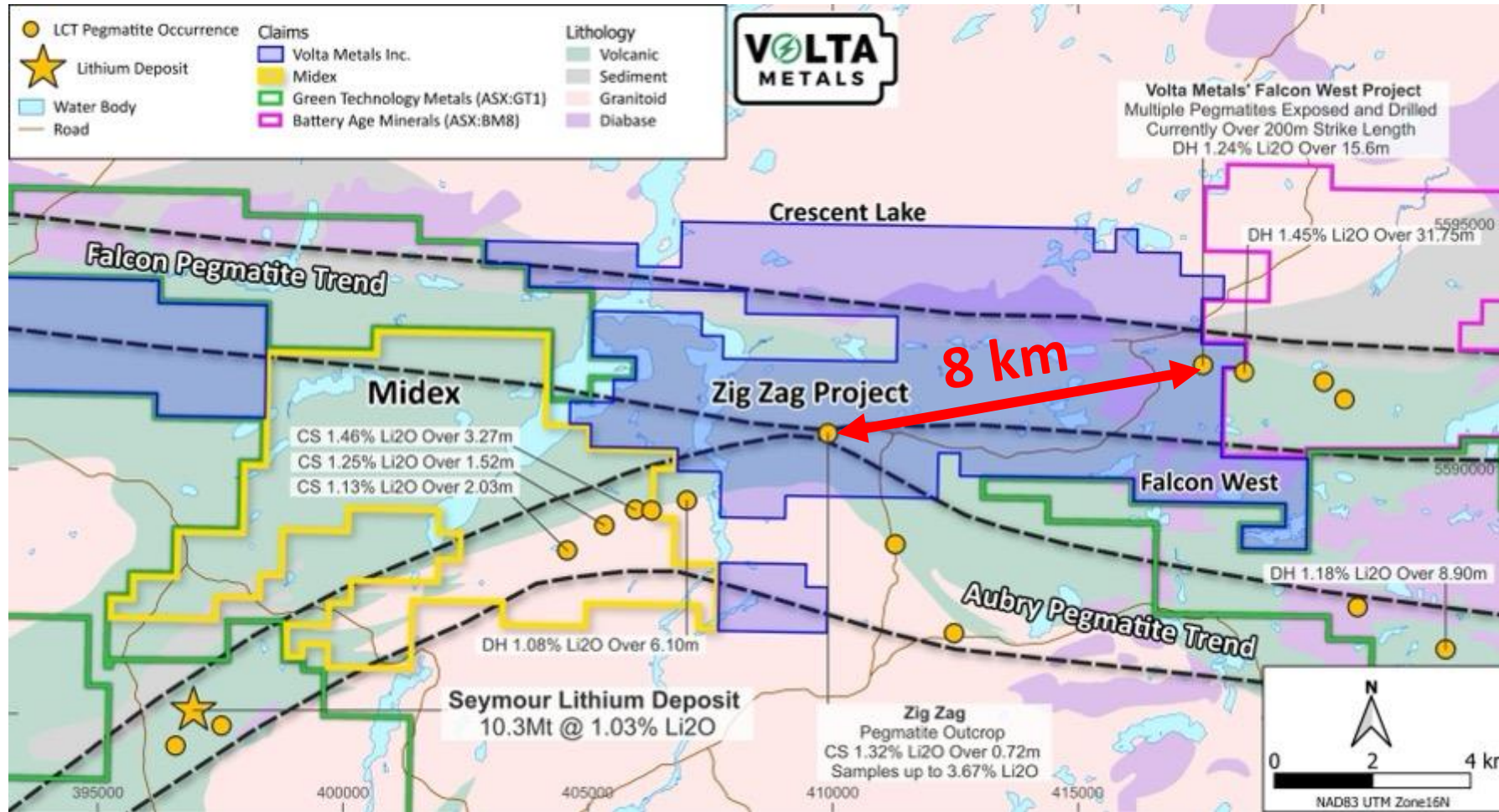
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# DISTRICT SCALE UNDEREXPLORED SPODUMENE PEGMATITE TREND – Substantial Strike Length owned by Volta (12 x 12 km)



- **Falcon Pegmatite Trend:** Influence of Pashkokan Fault opened up extensional voids to allow ingress of LCT pegmatites.
- **Aubry Pegmatite Trend:** Located along the southern greenstone contact zone.



Dr. Breaks (2003): “Individual analyses of manganotantalite from Tebishogeshik lens 3 and Dempster lens 40 exceed 80 weight% Ta<sub>2</sub>O, and are amongst the highest documented in lithium-rich pegmatites of Ontario. Thus, the pegmatites of this group have a high potential for economic tantalum deposits.”

# Dempster East Pegmatite – Aki Project



Recent Channel sampling results (NR Jan 14, 2025)

Channel Sample #	Li <sub>2</sub> O (%)	Gallium (ppm)	Tantalum (ppm)	Cesium (ppm)
C476307	<b>2.33</b>	<b>66.1</b>	<b>186</b>	<b>573</b>
C476308	<b>2.08</b>	<b>54.1</b>	<b>345</b>	<b>468</b>
C476311	<b>1.21</b>	<b>54.7</b>	107	<b>404</b>
C476315	0.63	<b>78.1</b>	<b>457</b>	<b>802</b>
C476316	0.97	<b>64.0</b>	<b>395</b>	<b>844</b>
C476317	<b>1.19</b>	<b>57.6</b>	<b>421</b>	<b>1,240</b>
C476318	<b>2.98</b>	<b>73.8</b>	<b>196</b>	<b>1,130</b>
C476319	<b>1.99</b>	<b>59.5</b>	<b>159</b>	<b>746</b>
C476322	0.25	<b>32.5</b>	<b>153</b>	<b>1,970</b>



- Cordero Gallium deposit in Nevada has cut off grade at 30ppm.
- Greenbushes Mine, Western Australia average Tantalum grade is 127 ppm.

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# FALCON WEST PEGMATITE SWARM – SOIL SAMPLING

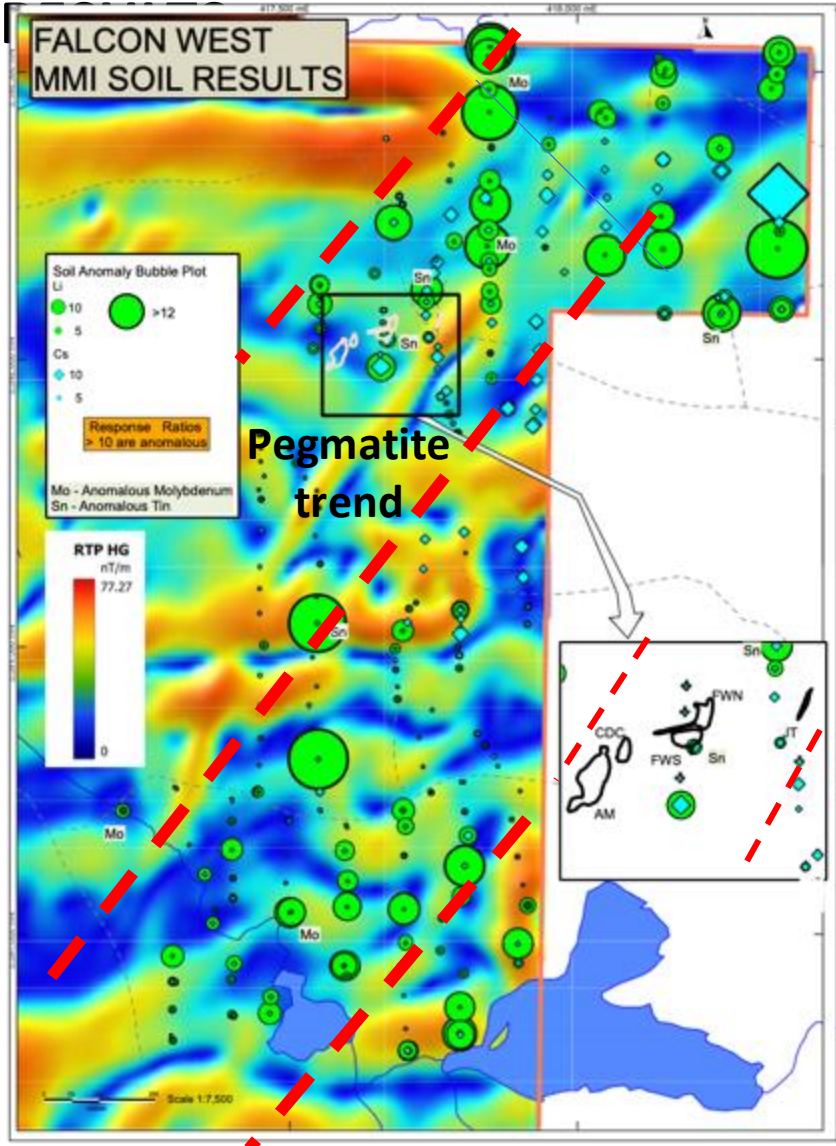


Table 1. Outcrop dimensions after mechanized stripping

Pegmatite Outcrop	Length (m)	Width (m)	Channel sample mean* Li <sub>2</sub> O%
AM	40m	10m (Up to 20m)	1.28%
CDC	14m	8m (Up to 10m)	1.20%
Falcon West North	15m	5m (Tabular)	1.47%
Falcon West South	18m	10m (Up to 16m)	1.59%
JT	24m	5m (Tabular)	1.21%

\*: See news releases dated October 3, 2023 and October 23, 2023

- Coincident pathfinder soil geochemical anomalies define multiple targets for follow-up.



Homogeneous large and medium spodumene crystals – potential for two different sources.



# FALCON WEST PEGMATITE SWARM – INAUGURAL DRILL RESULTS



Hole ID	From (m)	To (m)	Length (m)	Li <sub>2</sub> O %	Cs (ppm)	Ta (ppm)	Pegmatite
FW23-01	12.4	19	<b>6.6</b>	<b>1.03</b>	<b>297.2</b>	77.2	AM
FW23-02	24.9	29.8	4.9	0.04	<b>169.8</b>	<b>91.6</b>	AM
FW23-03	8.0	11.9	<b>3.9</b>	<b>1.41</b>	52.2	43.2	CDC
FW23-04	11.6	21.7	<b>10.1</b>	<b>1.11</b>	64.0	46.1	CDC
FW23-05	13.7	29.3	<b>15.6</b>	<b>1.24</b>	<b>155.5</b>	55.4	Far West South
FW23-06	30.65	32.45	1.8	0.74	85.6	32.8	Far West South
FW23-07	15.65	20.8	<b>5.15</b>	<b>1.50</b>	79.8	39.1	Far West North
FW23-08	28.4	37.2	<b>8.8</b>	<b>1.2</b>	72.3	33.1	Far West North
FW23-09	7.5	11.65	<b>4.15</b>	<b>1.20</b>	98.6	43.3	JT
FW23-10	14.6	21.4	<b>6.8</b>	<b>1.18</b>	64.1	30.3	JT
FW23-11	12.3	13	0.7	0.77	29.7	62.0	AM



- Inaugural drilling confirmed extension of high-grade channel sample results at depth.
- Borehole FW23-07 intersected blind pegmatite confirming potential to discover additional mineralization.



# MANAGEMENT & BOARD



## **Kerem Usenmez, M.Sc., P.Eng., Director, President and CEO**

Kerem is a Geological Engineer with over 25 years of global experience with Inco (MB), and Amec Engineering. Most recently President and CEO of Metallum Resources, founded Atom Bits diamond drilling bit manufacturer. He is a member of the Board of Directors of the PDAC, where he Chairs the Securities and Public Affairs Committees, and also a director of Silver Bullet Mines (TSXV: SBMI). Kerem is a licensed Geological Engineer in Manitoba and Ontario.

## **Brad Boland, CPA, CMA, Chief Financial Officer**

Mr. Boland is an experienced mining finance executive with over 25 years of experience, holding positions such as VP Finance for Goldcorp, VP Controller for Kinross, CFO for Consolidated Thompson Iron Mines. He has contributed to securing more than \$1 billion of combined equity, debt, and project financing for mining ventures.

## **Dr. Fred Breaks, Ph.D., Technical Advisor**

Dr. Breaks, a 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. He spent 29 years at the Ontario Geological Survey where he ran Operation Treasure Hunt and headed a regional mapping project predominantly targeting LCT pegmatites. He has 118 publications at the Ontario Geological Survey and numerous external publications.



### **Dr. Mark Cruise, PGeo, ICD.D, Chair and Director**

Mark is a professional geologist with over 29 years of international experience from exploration to production. He has co-founded and/or led several billion dollar TSX-V, TSX and NYSE American listed exploration and mining companies. Mark is an independent director for Velocity Minerals, NiCAN Ltd, Interra Copper and Bunker Hill Mining.

### **Saga Williams, B.A., LLB, Director**

Ms. Williams is Anishinaabe, a member of Curve Lake First Nation. Ms. Williams has been on negotiation teams that have successfully settled over \$1 billion in agreements and has worked on Indigenous community engagement and negotiations to support national energy and mining projects. Ms. Williams teaches at Osgoode Hall Law School as an Adjunct Professor.

### **Mike Hoffman, P.Eng., ICD.D, Director**

Mike is a mining executive with over 35 years of experience including engineering, mine operations, corporate development, projects and construction. He is the former CEO of Crowflight Minerals, Kria Resources and Crocodile Gold. Mr. Hoffman is currently Chair and Director at 1911 Gold and NiCAN Ltd. as well as a director of Silver X Mining and Fury Gold.

### **Fady Mansour, CA Director**

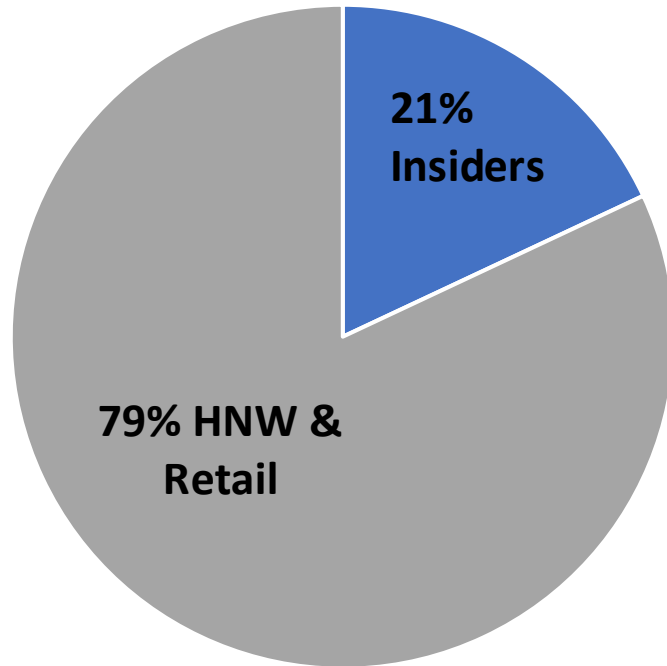
Mr. Mansour, J.D., is a Managing Partner of Ethical Capital Partners, a private equity firm managed by a multi-disciplinary advisory team seeking investment and advisory opportunities in industries requiring principled ethical leaderships and is a Partner of the Ottawa based criminal law firm Friedman Mansour, LLP. He has also been an Adjunct Professor in the Faculty of Common Law at the University of Ottawa since 2019. Mr. Mansour is a member of the Law Societies of Ontario, Alberta, and the Northwest Territories.

### **Brad Humphrey, Director**

Mr. Humphrey has over 25 years of international mining experience. He has worked for Morgan Stanley, Raymond James, CIBC World Markets and Merrill Lynch as the North American Precious Metals Analyst and Managing Director for Research. Mr. Humphrey has held a variety of mining industry roles from underground contract miner to CEO. Mr. Humphrey is 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 & CAP STRUCTURE



VOLTA Shares outstanding: 59,383,112  
Total warrants: 7,090,000 (@\$0.10)  
Total Options: 2,882,328 (@\$0.36 avg)

Market Cap: \$2.5 - \$3.5M Range

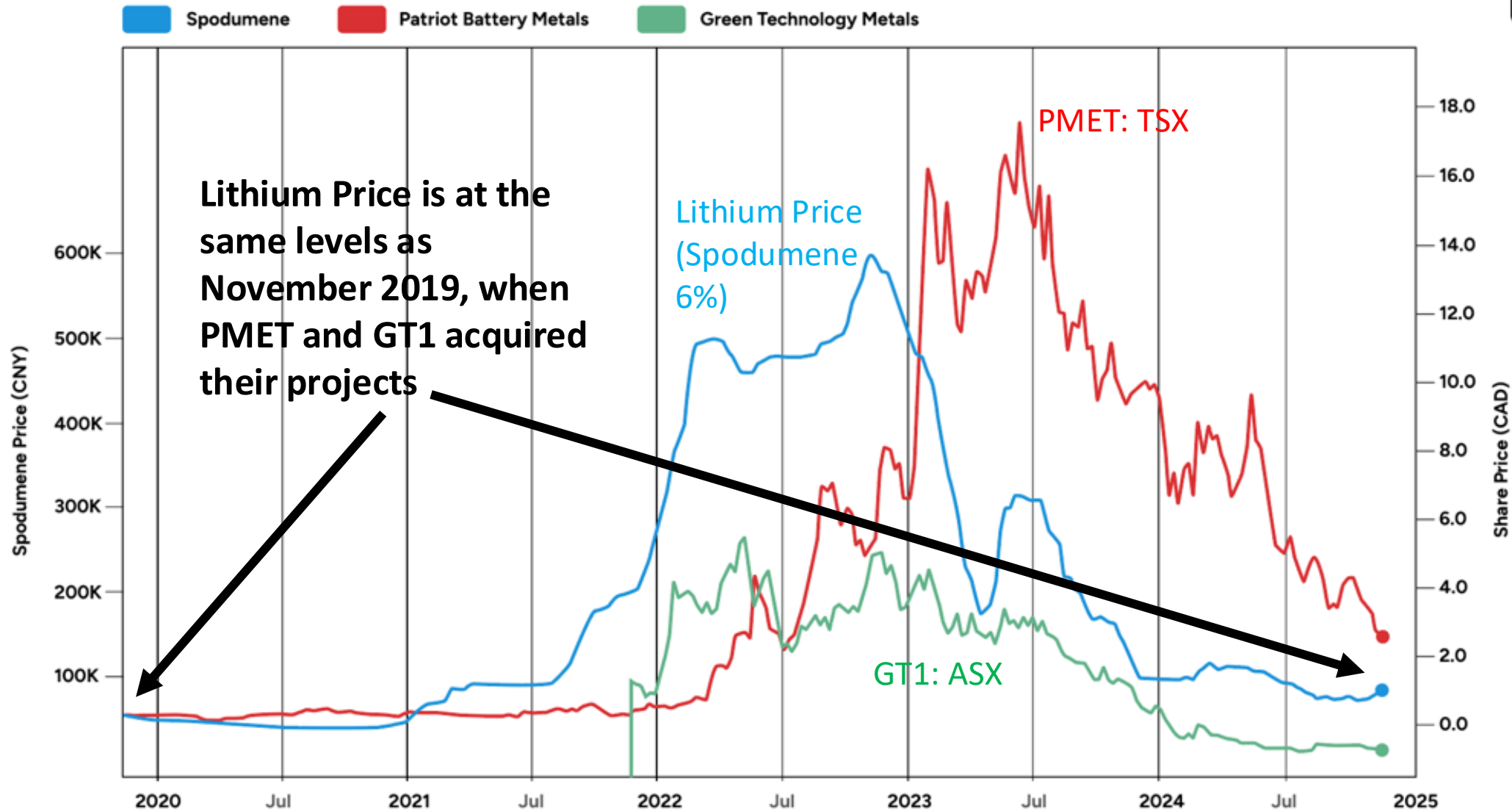
Local Management team resulting significantly **lower overhead & burn rate** compared to peers.

CSE: **VLTA** FRA: **DOW**

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# Last Bull Run



# PEER COMPARATIVES – RARE EARTHS



Exchange	CSE	TSXV	TSXV	TSXV	TSXV
Market Cap	\$2.4M	\$44M	\$13M	\$3.6M	\$18M
52 week Share Price <sup>4</sup>	\$0.02 - \$0.08	\$0.07 - \$0.24	\$0.06 – \$0.17	\$0.02 - \$0.07	\$0.02 - \$0.10
Shares on Issue	69M*	261M	143M	103M	608M
Project Name	Springer-Lavergne	Wicheeda	Montviel	Zeus	Nechalacho
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)	ON (90km NE of North Bay)	NWT (100km east of Yellowknife – Remote)
Project Size (Ha)	5,000	11,800	9,910	3,200	4,249
Stage	Historic MRE (2012)	DFS	Historic MRE (2011)	Feasibility (2013)	DFS (2013)
Gallium (Ga)	Yes (16Mt at 67ppm Ga – Non 43-101)	No	No	No	No
Indicated MRE	3Mt @ 1.21% TREO (Cutoff 1.0%)	27.8Mt @ 2.86% TREO (Cutoff 0.5%)	82.4Mt @ 1.5% TREO	19.8Mt @ 0.41% TREO	110Mt @ 1.49% TREO
Inferred MRE	9.4Mt @ 1.25% TREO (Cutoff 1.0%)	11.1Mt @ 1.02% TREO (Cutoff 0.5%)	Unknown	Unknown	183Mt @ 1.27% TREO
Deposit Open	Yes	No	No	No	No

\*: Post acquisition of Springer-Lavergne

CSE: **VLTA**

FRA: **DOW**

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# PEER COMPARATIVES – LITHIUM-CESIUM-TANTALUM



Exchange	CSE	TSXV	TSXV	ASX	ASX
Market Cap	\$2.4M	\$141M	\$110M	\$23M	\$7.5M
52 week Share Price <sup>4</sup>	\$0.02 - \$0.08	\$0.39 - \$0.99	\$0.78 – \$2.00	\$0.05 - \$0.19	\$0.06 - \$0.19
Lithium Grade <sup>3</sup>	1.5% <sup>1</sup>	2%	1.01%	1.03%	1.48%
Tonnage	N/A	41.9 Mt	6.6 Mt	24.9Mt	N/A
Contained <sup>2</sup> Li <sub>2</sub> O		0.65 Mt	0.07 Mt	0.25Mt	N/A
Gallium (Ga)	Yes	No	No	No	No
Claim Area	13,013 Ha	27,000 Ha	1,042 Ha	40,000 Ha	5,600 Ha
Location	NW ON	NW ON Dr. Breaks' Discovery	NW ON	NW ON Neighbouring claims	NW ON Neighbouring claims



<sup>1</sup>: 2024 Drill core high grade over 15.6m

<sup>2</sup>: Estimated

<sup>3</sup>:Peer grades were taken from their press releases with respect to drill results from their main assets

<sup>4</sup>: January 20, 2025

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CSE: **VLTA**



For further information contact:

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*President & CEO*

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**(416) 919-9060**

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Toronto, Ontario

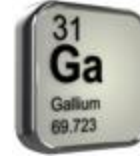
Canada M5X 1B1



# Main Uses of High-grade Elements found in Volta's Projects



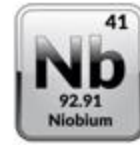
Main Uses: Batteries (EV's, portable electronics), Medicine, lubricant, energy storage (AI)



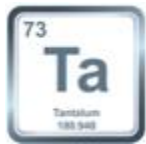
Main Uses: Semiconductors (Essential element for Chipmaking), LED's (Mars Rover, electronics etc)



Main Uses: Aerospace, Cancer treatment, atomic clocks, Electric power and electronics.



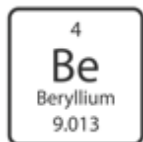
Main Uses: Superconductors (MRI), Alloy strengthening (Vehicles, pipelines)



Main Uses: Electronic components, computer processors, digital cameras, thermal protection and transportation



Main Uses: Defense and Military(night vision, etc), Aerospace, fiber optic comm, electronic devices



Main Uses: Aerospace, automotive (anti-lock brake systems), Ceramic manufacturing (semiconductor chips, rocket covers)

# ONTARIO, CANADA – TIER 1 JURISDICTION



## Canada's Critical Mineral Strategy

- \$1.5B in funding to support critical mineral projects
- 30% Critical Mineral Exploration Credit
- \$40M to support northern regulatory processes in reviewing and permitting critical mineral projects
- \$6M government investment 2023-2025 in the Ontario Junior Exploration Program (OJEP) to companies exploring for critical minerals in Ontario



# LITHIUM FACTS



- Lithium is the lightest and least dense solid element in the periodic table.
- In its metallic form, lithium is a soft silvery-grey metal with good heat and electric conductivity enabling it to store and transmit energy.
- Lithium has high electrode potential. Due to its low atomic mass, it has a high charge and power-to-weight ratio, making it well suited for rechargeable batteries.
- The soft drink 7-Up started life as Bib-Label Lithiated Lemon - Lime Soda when it was launched in 1929. The drink's creator Charles Leiper Grigg claimed the soda, which contained lithium citrate, had the power to improve the mood of the imbiber. The United States Food and Drug Administration banned the use of lithium citrate in beverages in 1948



An early advertisement for the soft drink 7-Up



# LITHIUM FACTS



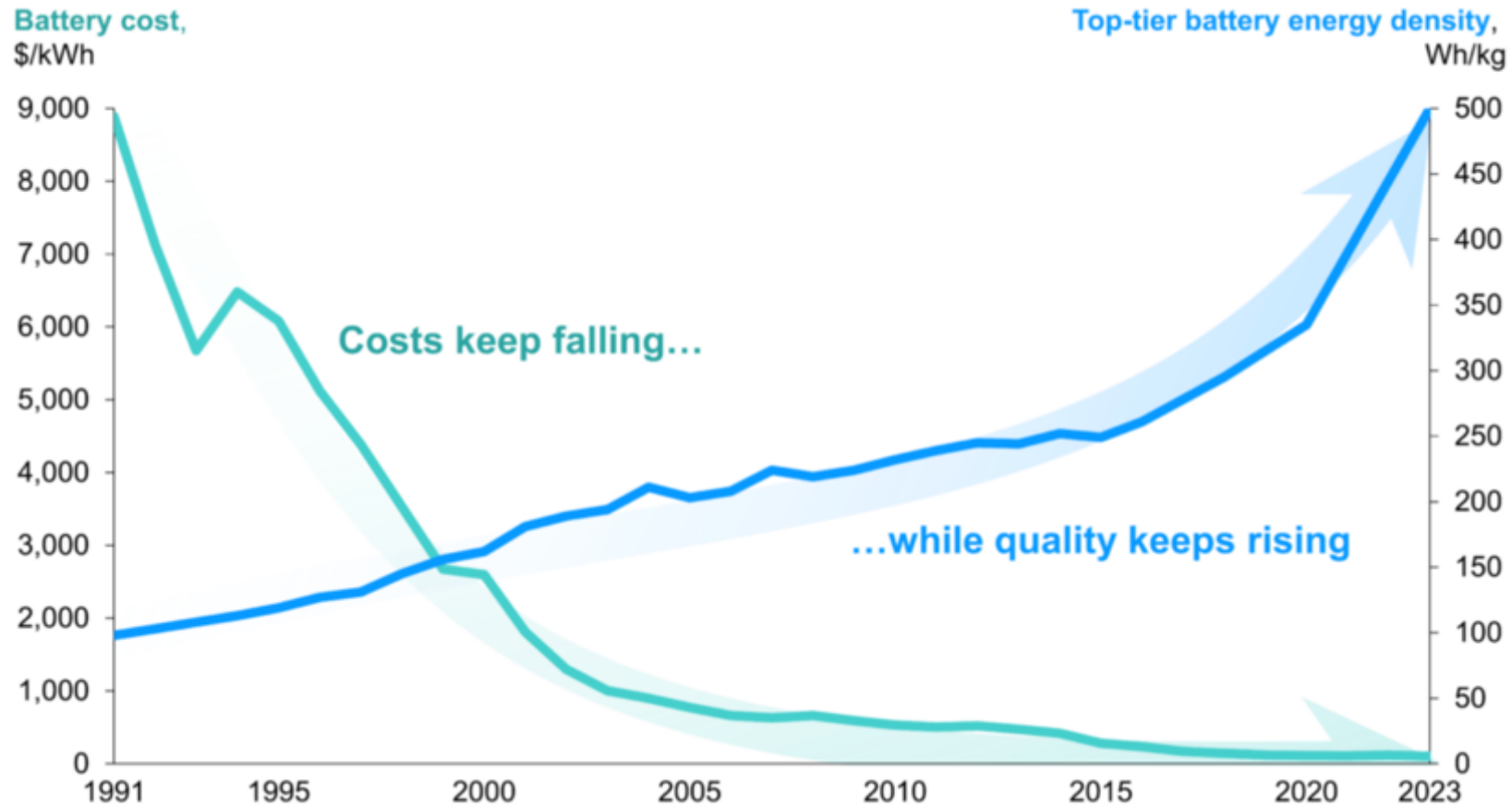
- Lithium grease was invented around 1940 and was found to be superior to existing sodium and calcium-based greases. It found widespread industrial use in aircraft engines during the 1940s and is still widely used today.
- Industrial applications include the use of lithium as an additive in aluminum smelting and in the manufacture of high-strength glass-ceramic products including the induction cook tops in many kitchens, tough glass, fiberglass, ceramic frits, and even ceramic dentures. Other uses include air conditioning and polymer catalysts.
- Lithium first entered the modern era when, during the 1970s oil crisis, the English chemist Stanley Whittingham developed a rechargeable battery using lithium and titanium.
- Key breakthrough in lithium battery technology came in 1985 when Akira Yoshino, a Japanese chemist, developed carbon-based anodes and a non-aqueous electrolyte, leading to a stable, reliable and high-powered lithium-ion battery (LIB), which Sony then commercialized.
- A LIB is a rechargeable battery in which lithium ions move from the negative electrode (anode) to the positive electrode (cathode) during discharge, and back when charging. LIBs have good energy-to-weight ratios, high open circuit voltage, low self-discharge rate, no memory effect and a slow loss of charge when not in use. In addition to consumer electronics, LIBs are used in military and electric vehicles and aerospace applications due to their high energy density.
- As the world moves toward net zero around 85% of lithium extracted today is used in LIBs, including to power electric vehicles and for renewable energy grid storage solutions.



Image: Shutterstock

Lithium greases are widely used today

# CHEAPER TO REPLACE AND EV BATTERY THAN A COMBUSTION ENGINE



- Battery replacements are rare, and they are about to get rarer. [The EV battery of today](#) is expected to last for 200,000 miles, possibly more. [Most electric cars won't need their batteries replaced at all.](#)
- The cost of EVs will continue to drop, led by a decline in battery costs.

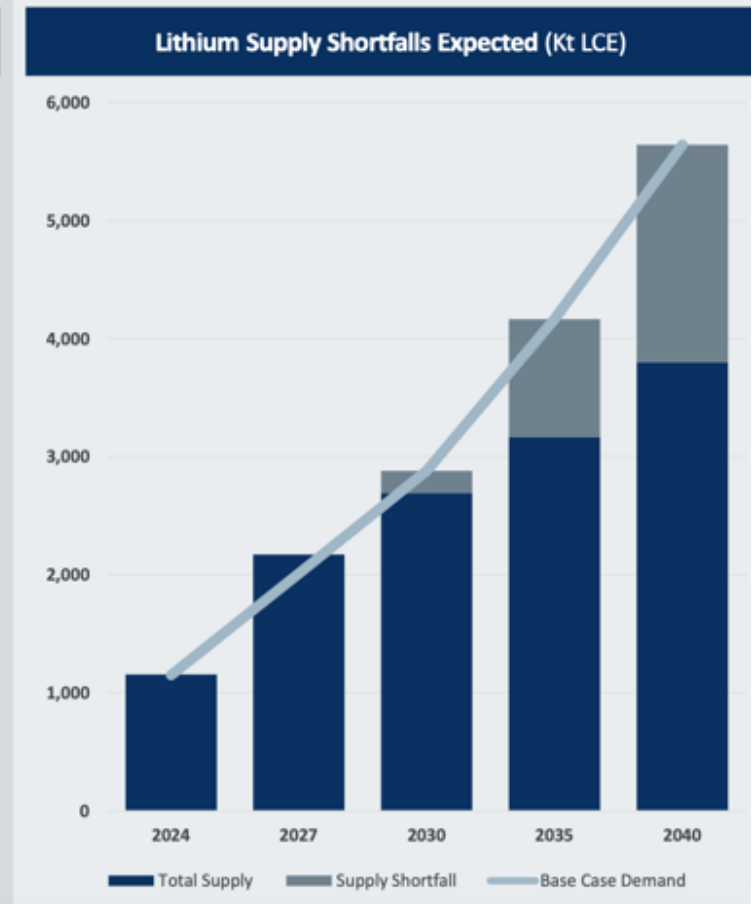
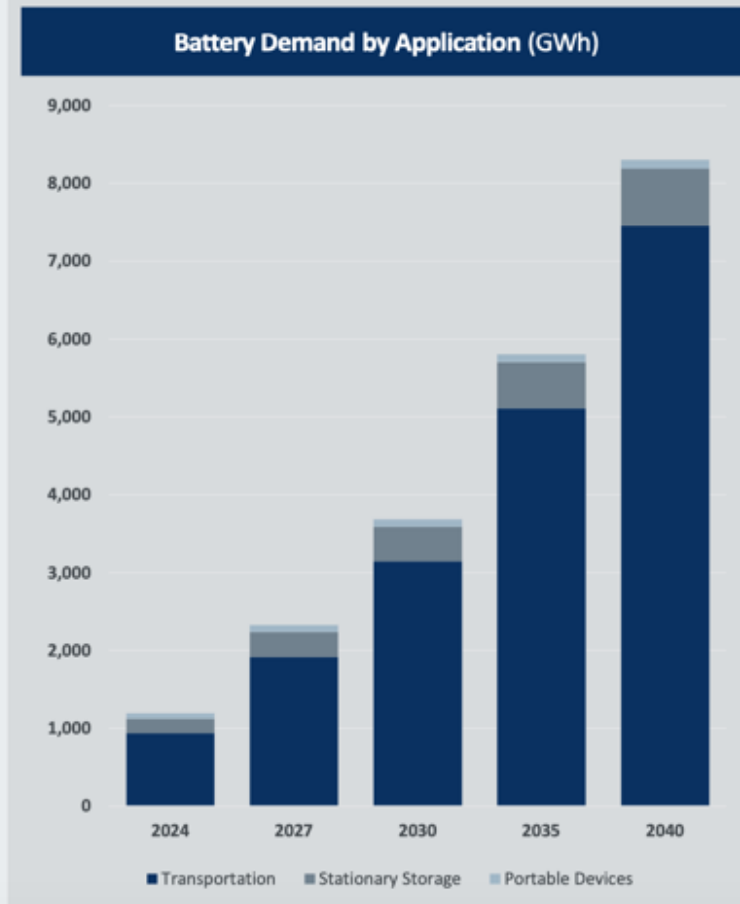
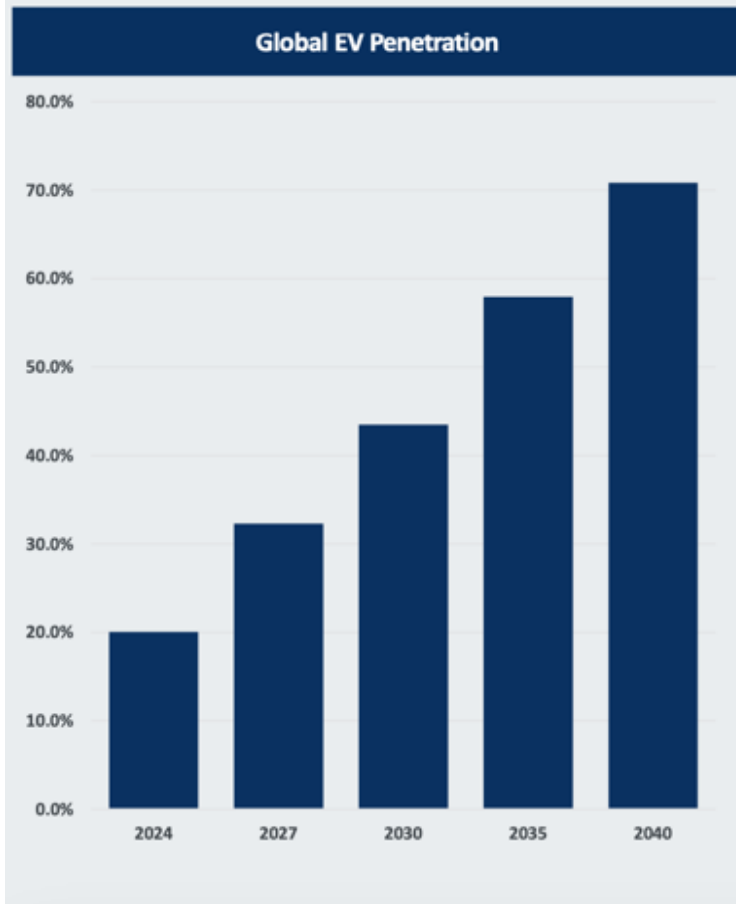
# GLOBAL LITHIUM TREND – EV DEMAND REMAINS STRONG



“Sales of internal combustion engine vehicles have slumped from 78% to 63%, with the market showing no sign of this trend slowing,” (AutoMotive), referring to a 2½ year period from 2022 to 2024.

That’s a 20% shrink in a fairly short timespan.

“Meanwhile, in the same period, [electric vehicles \(EVs\) have almost doubled](#) their market share from 10% to 17.4%,” AutoMotive adds.



Source: Benchmark Minerals Intelligence – Lithium Forecast, Q1 2024

Source: Benchmark Minerals Intelligence – Lithium Forecast, Q1 2024

Source: Benchmark Minerals Intelligence – Lithium Forecast, Q1 2024

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# ELECTRIC VEHICLE SALES – MAIN DRIVER FOR LITHIUM DEMAND

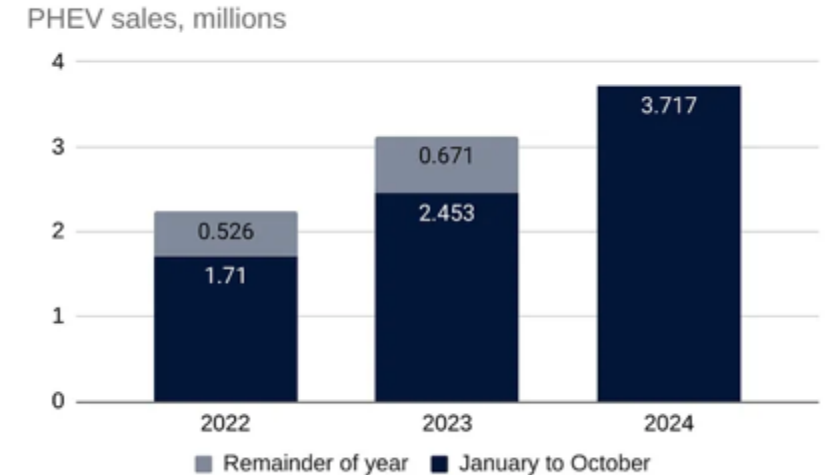
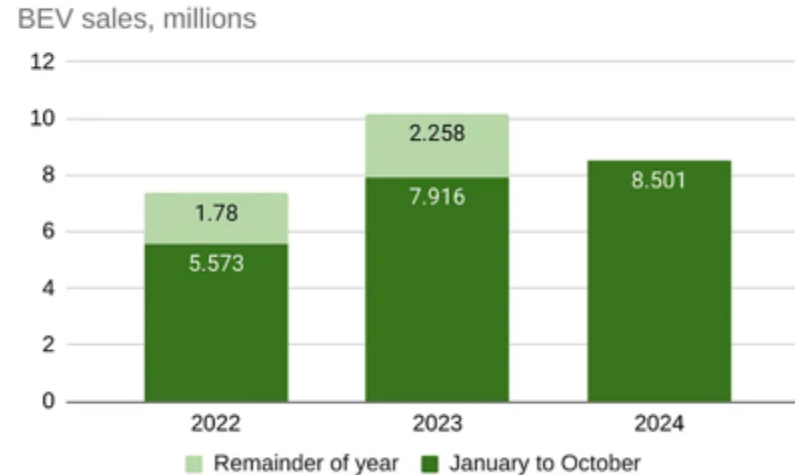


Recent report from Benchmark Minerals Intelligence:

*“Lithium has to scale 20X by 2050 as Automakers face generational Challenge”*

- Estimated Global EV Sales:
  - 2.5 million in 2020
  - 11.2 million in 2025
  - 31.1 million by 2030

Sales of BEVs and PHEVs in Jan-Oct, and for Nov-Dec, for 2022 to 2024



## ACTUAL SALES

- In Oct 2024 1.04 million battery-electric cars were sold, an increase of 108,000, or 12% on October 2023.

12 months to Oct 2024, 10.8m battery-electric cars were sold, an increase of 1.1m or more than 11% on the 12 months to October 2023. The increases were primarily driven by China, which saw new battery electric sales rise 870,000, and the US, which achieved 150,000 additional sales.

Source: [https://newautomotive.substack.com/p/408235bd-2c4d-45bb-8e9e-87802c21cc5a?postPreview=paid&updated=2024-11-21T17%3A22%3A57.871Z&audience=everyone&free\\_preview=false&freemail=true](https://newautomotive.substack.com/p/408235bd-2c4d-45bb-8e9e-87802c21cc5a?postPreview=paid&updated=2024-11-21T17%3A22%3A57.871Z&audience=everyone&free_preview=false&freemail=true)

# ELECTRIC VEHICLE SALES – MAIN DRIVER FOR LITHIUM DEMAND



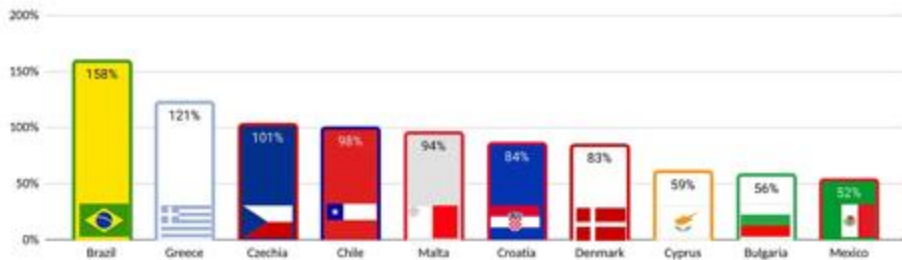
Market share of petrol and diesel March 2022 to October 2024, 3 month rolling average



The market share of vehicles without a battery is in steep decline, falling from 78% to 63% - a decline of a fifth - in two-and-a-half years, and showing no sign of abating. In the same period battery electric has almost doubled its market share from 10% to 17.4%, with the remainder made up of plugins and other hybrids.

The emerging markets of Brazil and Chile continued their rapid growth, whilst Mexico has faded.

Best performers by % rise in battery electric sales between Oct 23 and Oct 24



Country	October 2024	October 2024 Ranking	12 months to October 2024	12 month Ranking
China	732,687	(1)	7,129,245	(1)
US	112,419	(2)	1,237,334	(2)
Germany	35,482	(3)	411,296	(3)
UK	27,957	(4)	333,947	(4)
France	21,216	(5)	311,794	(5)
Belgium	12,738	(6)	124,978	(6)
Netherlands	10,937	(7)	122,163	(7)
Norway	10,862	(8)	108,803	(8)
Denmark	8,826	(9)	86,732	(11)
Sweden	8,780	(10)	96,174	(9)

Source: [https://newautomotive.substack.com/p/408235bd-2c4d-45bb-8e9e-87802c21cc5a?postPreview=paid&updated=2024-11-21T17%3A22%3A57.871Z&audience=everyone&free\\_preview=false&freemail=true](https://newautomotive.substack.com/p/408235bd-2c4d-45bb-8e9e-87802c21cc5a?postPreview=paid&updated=2024-11-21T17%3A22%3A57.871Z&audience=everyone&free_preview=false&freemail=true)

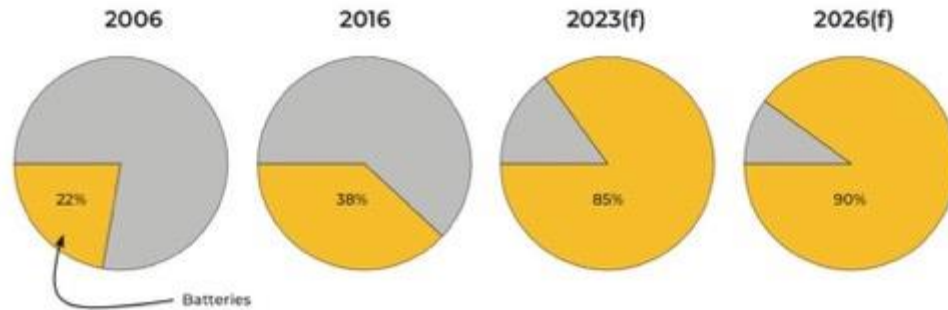
# STRONG LITHIUM DEMAND



- Inflation Reduction Act has turbo charged battery supply chain initiatives and EV plans in North America.
- Climate change represents one of the greatest challenges and investment opportunities of our time. IEA World Energy outlook highlights Lithium, Copper and Nickel as key energy metals facing high demand growth under Net Zero ambitions.

## Battery Powered: 20 years of lithium demand

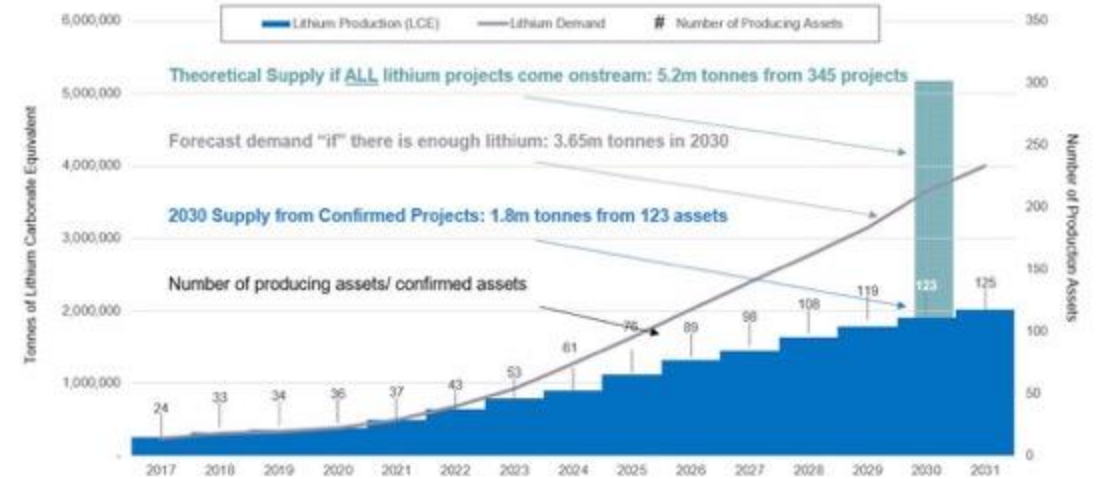
Lithium (LCE) demand from 2006 to 2026(f): how lithium ion batteries for EVs have grown to dictate the lithium industry



SOURCE: BENCHMARK MINERAL INTELLIGENCE



## Lithium needs to double the number of Final Investment Decisions or suffer demand destruction



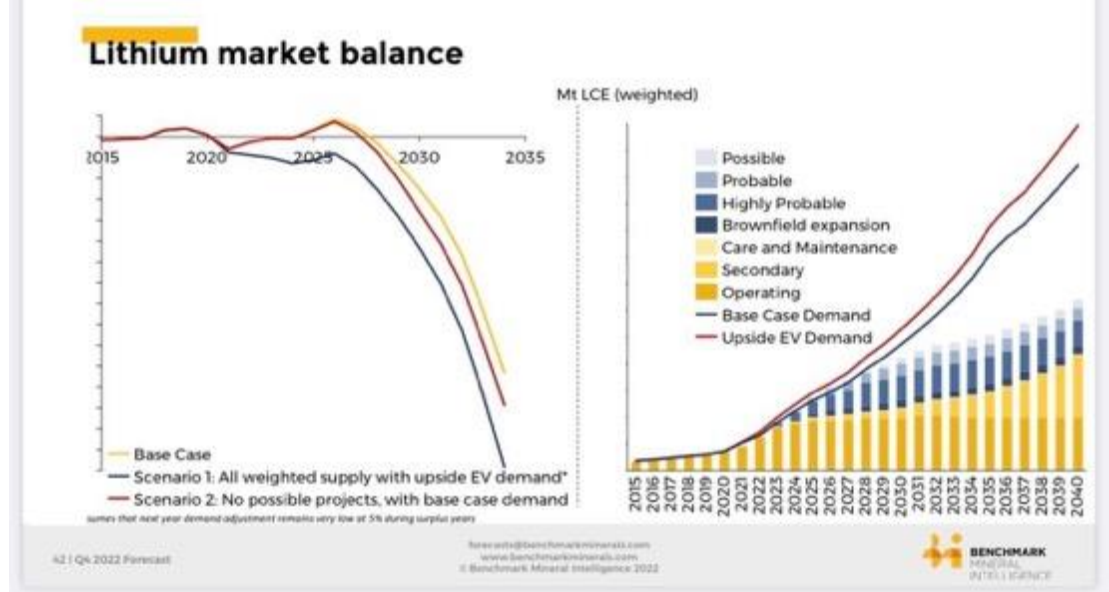
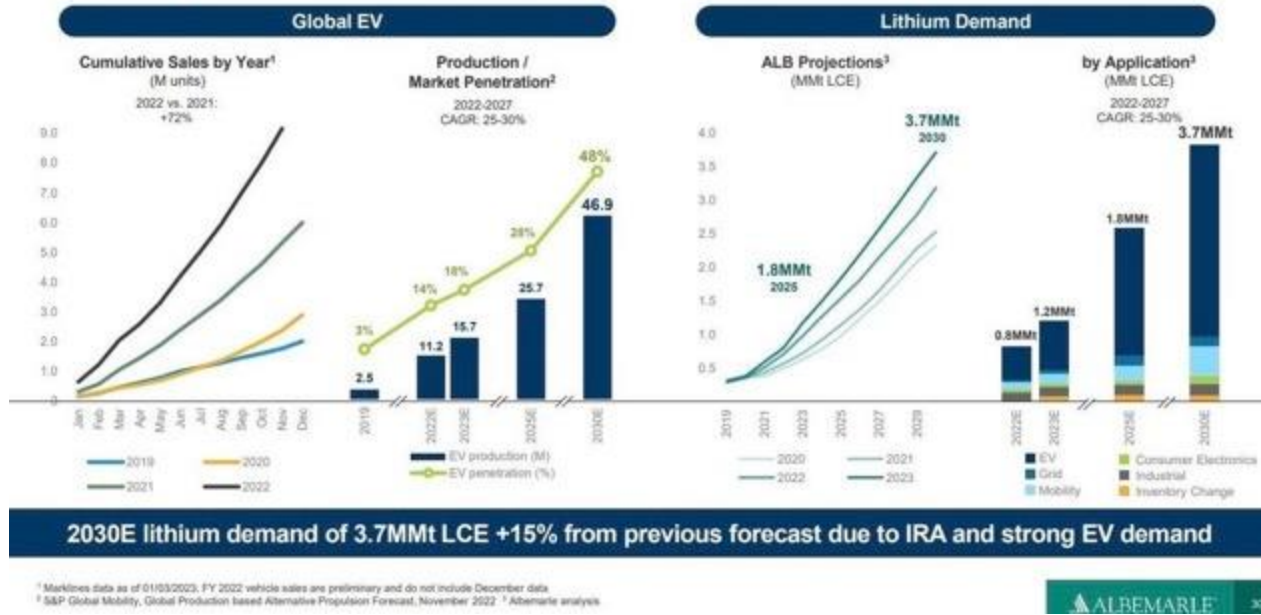
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sales@sc-insights.com



# STRONG LITHIUM DEMAND



## Increasing Our Lithium Market Demand Outlook: 5x Growth by 2030



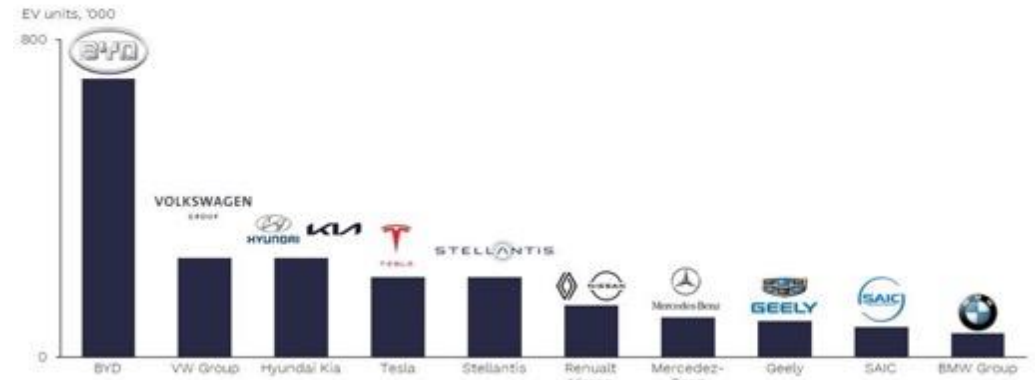
Benchmark has a base lithium supply forecast of 2.1 tonnes, 12% lower than their base demand.

- Unconstrained Demand (Dream) 3-4m tonnes lithium by 2030.
- Base Demand (Reality) 2-3m tonnes lithium by 2030.
- Supply or where supply and demand intersect – 1.8-2.8m tonnes lithium by 2030.

## Electric vehicle backlog



Estimated BEV & PHEV backlog of orders, January 2023



CSE: **VLTA** FRA: **DOW**

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# LITHIUM DEPOSITS

There are two primary sources for Lithium - brine and hard rock:

- Brine deposits are accumulations of saline groundwater that are enriched in dissolved lithium. Although abundant in nature, only select regions in the world contain economic brines, mainly in arid regions where lithium salts can be extracted and processed into lithium carbonate.
- Lithium 'hard rock' deposits are hosted in pegmatites as the mineral spodumene. Spodumene can be processed into lithium carbonate or lithium hydroxide, the latter of which is becoming more desirable by battery producers.

## Advantages of Hard Rock vs Brine:

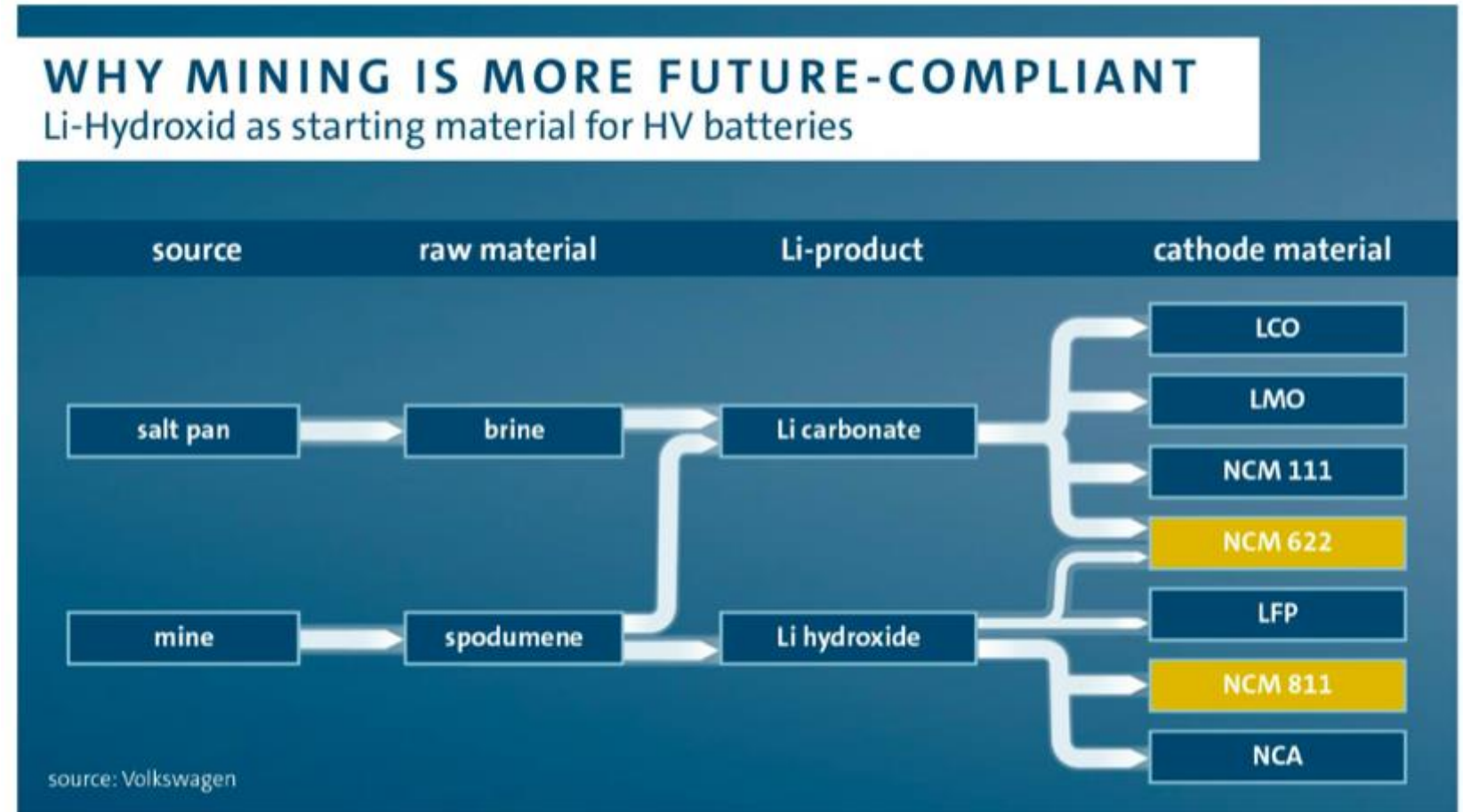
- Environmental impact: Hard-rock lithium has less environmental impact, using significantly less water and energy in production.
- More flexibility: The lithium hosted in spodumene can be processed into either lithium hydroxide or lithium carbonate. Brines initially can only be processed into carbonate, and then can be further processed into hydroxide however at an additional cost.
- Faster processing: Brines can take a lot longer to process due to the evaporation required making for an inconsistent process compared to spodumene.
- Higher quality: Spodumene contains a higher lithium content in comparison to brines.



# LITHIUM PRODUCTION TYPES



- Lithium hosted in spodumene (Pegmatite) can be sustainably processed into either Lithium Hydroxide or Lithium Carbonate.
- Lithium Hydroxide is better for the production of EV batteries with NCM 811 cathodes compared to Lithium Carbonate produced from brines. However Lithium Carbonate is the feed for new generation LFP batteries
- Spodumene also contains a higher lithium content in comparison to brines and is produced in a more sustainable manner.





# LITHIUM PRODUCTION TYPES



## China's outsized involvement in lithium mining

Almost 60% of lithium mined in 2023 was associated with a Chinese company, despite only 20% of lithium being mined in China

<https://benchmarkminerals.us9.list-manage.com/track/click?u=4bff972445c3d36015be2ef8e&id=b13b1fbda&e=8dac0b18a0>



- Lithium production will exceed 1 million tonnes LCE for the first time in 2024 and will more than double to 2.7 million by 2030.
- Today the majority of extraction occurs in South America and Australia, though China dominates the processing scene.
- China also dominates lithium chemical supply but accounted for only 20% of mined lithium in 2023.
- Despite this, Chinese companies control 59% of global lithium mining, across Australia, Argentina, and Africa.
- Canada is to become one of the major Lithium miners, with all discoveries being made

SOURCE: BENCHMARK LITHIUM FORECAST Q1 2024



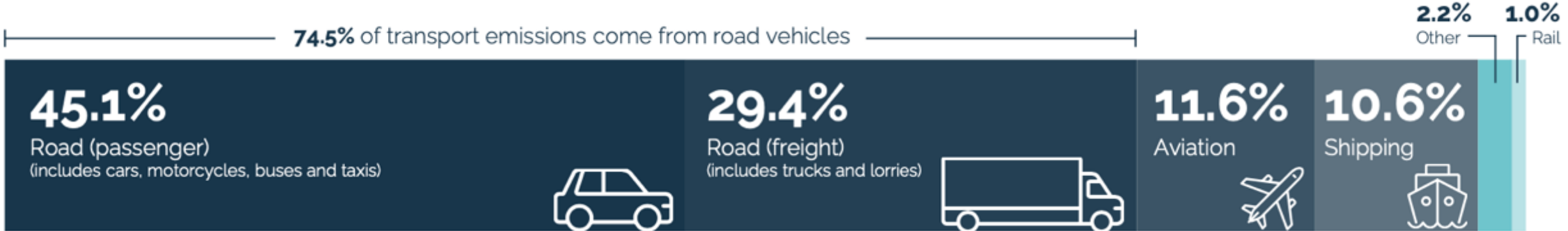
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# TRANSPORTATION - A MAJOR CONTRIBUTOR TO CLIMATE CHANGE



## Global CO<sub>2</sub> Emissions from Transportation



- Transportation accounts for around 20% of global CO<sub>2</sub> emissions.
- Unlike sectors such as marine transportation and aviation, light passenger vehicles have a clear technological path to net-zero emissions by 2050: electrification.
- Many countries have announced 100% zero-emission vehicle targets, or the phase-out of internal combustion engine vehicles by 2050 or earlier.
- It is expected that the other transportation sectors (freight, aviation, etc.) will follow vehicle electrification.

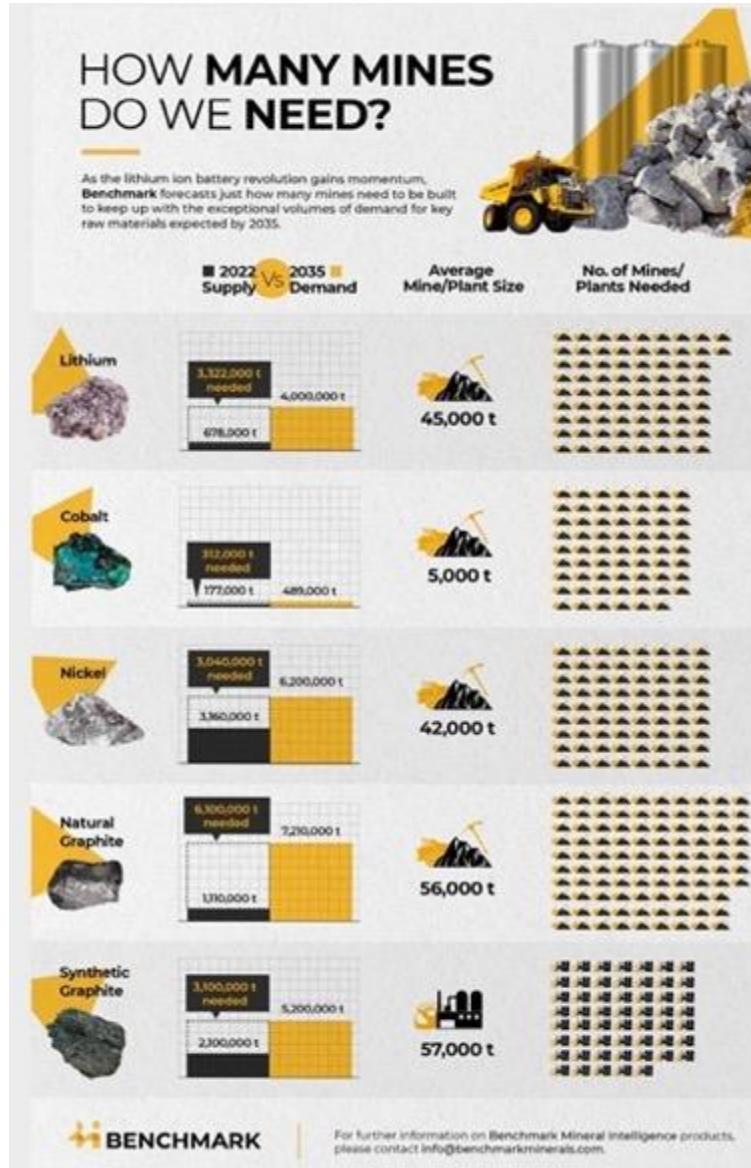
# LITHIUM MARKET CONDITIONS



The critical minerals needed to meet global battery demand by 2035



Source: Benchmark Mineral Intelligence © FT



1.5B cars in the World

290M cars in the US  
35M cars in Canada.

8kg Li in each EV

5% of these cars to be EV each year, means ~1.5M tons of Lithium.

In 2022 100k tons of Li was produced (as of Nov).

CSE: **VLTA** FRA: **DOW**

[voltametals.ca](http://voltametals.ca)