# RESOURCES LIMITED

# CEILING LITHIUM

Exploration in the heart of world-class lithium district of Eeyou Istchee James Bay, Quebec

ASX: RB6 October 2023



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The Company is not aware of any new information or data that materially affects the information in the relevant market announcements. All material assumptions and technical parameters underpinning the relevant market announcements continue to apply and have not materially changed.

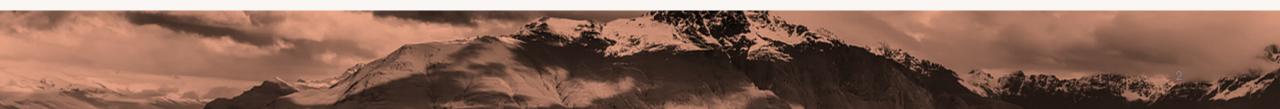
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#### Current and potential investors should not place undue reliance on forward-looking statements due to the inherent uncertainty therein. All forward-looking information is expressly qualified in its entirety by this cautionary statement.

Management cautions that past results or discoveries on nearby or adjacent properties (i.e. Mia, Corvette) are sourced from publicly available information, have not been independently verified by the Company and may not necessarily be indicative to the presence of mineralization on the Company's properties.





# Rubix Resources has a diverse portfolio of projects across critical minerals in world-class jurisdictions





#### Estimated average metal use per vehicle:



Based on an estimated 53kWh global average battery pack size. Source: CRU 'Green Scenario'



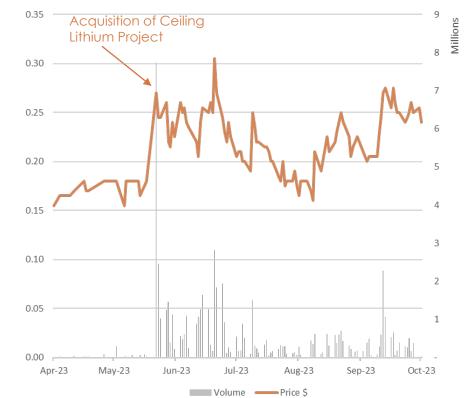


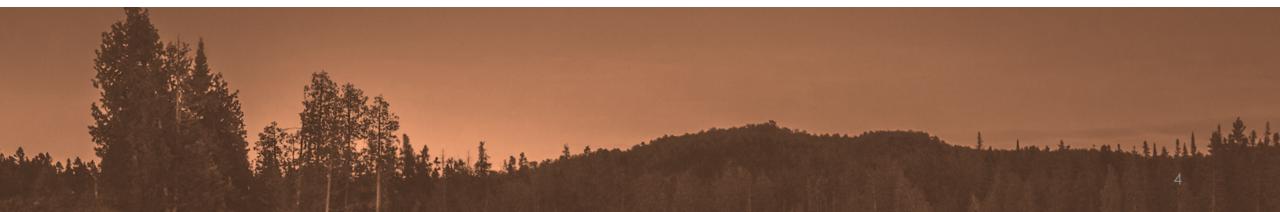
# Corporate Summary

CAPITAL STRUCTURE	
ASX Ticker	RB6
Shares on issue	61.45M
Options	35.48M
Performance rights	25.00M
Share price (3 Oct 23)	A\$0.24
MCAP	A\$14.75M
Cash	A\$3.70M
EV	A\$11.26M
SUBSTANTIAL SHAREHOLDERS	
Kitara Investments	9.86%

	7.0070
DG Resources Management	9.15%

# Share Price Performance





# **Technical Team**



#### Dr Casey Blundell PhD, MAIG Chief Executive Officer

Casey has a PhD in applied Structural Geophysics and Structural Geology, with expertise in complexly deformed geologic terranes. She brings to Rubix a broad and complementary skillset including structural interpretation of geophysical data (magnetics, gravity and EM) and structural mapping, with additional experience in whole-rock major and trace-element geochemistry and isotope systematics (U-Pb and Hf). This diverse skill set is well-suited to both project development and generation from regional to project scale.



#### Jody Dahrouge DG Resource Management (DGRM)

Jody Dahrouge is a professional geologist with more than 25 years in the mineral exploration and mining business. He has a strong background in project generation and exploring early stage exploration. He and/or the team at Dahrouge Geological are directly responsible, individually or as part of the team, for the 'conceptualizing - project generation' of numerous grass roots ideas, which ultimately resulted in significant mineral discoveries.

DGRM specializes in the earliest stages of exploration by acquiring, compiling and reviewing historic geologic and geophysical data sets in order to generate a "project concept". DGRM's approach and perspective on mineral exploration has resulted in numerous grass roots discoveries, and provides valuable insights into what makes a mineral exploration project worthy of grass-roots or ongoing exploration. With a unique focus in Western Canada, DGRM specializes in a variety of commodities, which include: Base Metals, Coal, Gold, Industrial Metals and Minerals, PGE's, and Uranium.

# **Board of Directors**



#### Mr Eddie King, Executive Chairman

Mr King holds bachelor's degrees in Commerce and Engineering (Mining Systems) from The University of Western Australia. His experience includes investment banking with a focus on resource projects and managing capital raisings for ASX listed companies. He currently sits on the board of Ragnar Metals, Eastern Iron Limited, M3 Mining Limited, and Queensland Pacific Metals Limited.



#### Mr Colin Locke, Non-Executive Director

Mr Locke brings 30 years of experience in business management, mining, and financial services, with involvement in capital raising and mineral exploration across multiple countries. He previously served as the Executive Chairman of Aston Minerals Limited from 2011 to 2013. Currently, he is the Chairman of Krakatoa Resources Ltd and serves as Executive Chair of the Chamber of Australia Africa Mining and Investment (CHAAMI) (NFP).

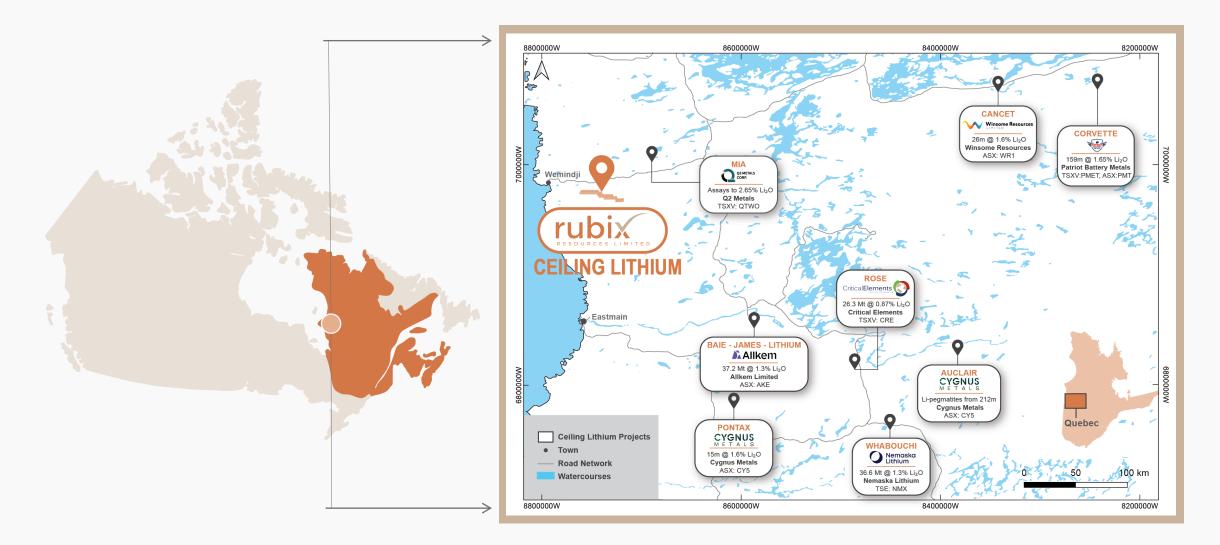


#### Mr David Palumbo, Non-Executive Director

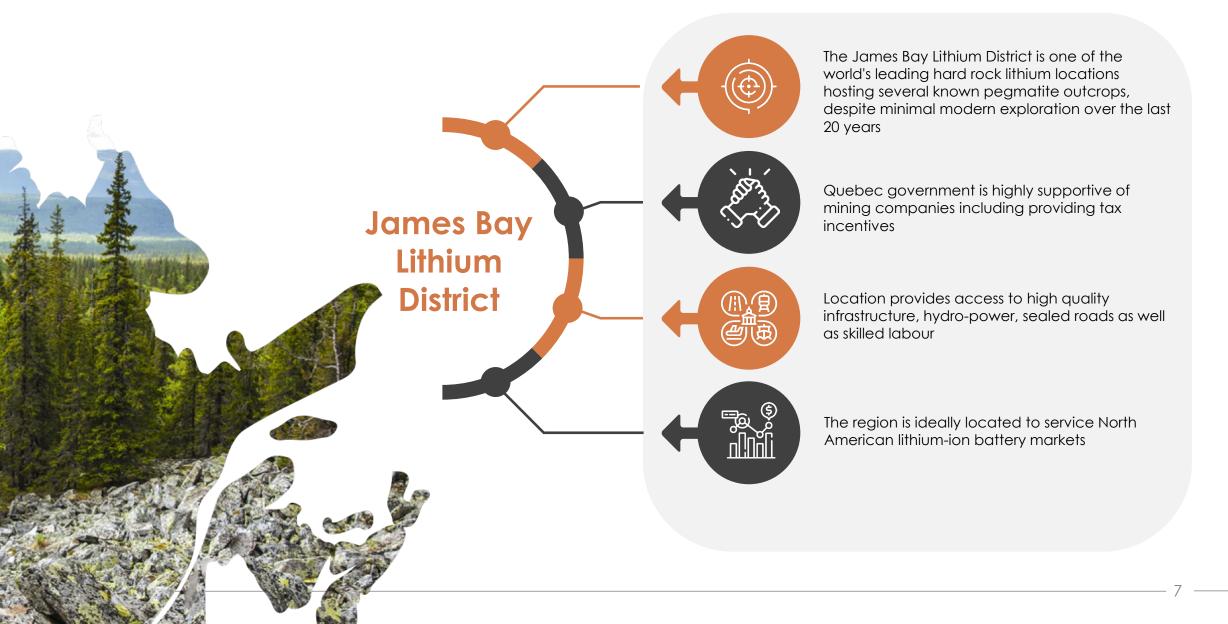
Mr Palumbo has 15 years of experience in company secretarial, corporate advisory, and financial management roles. He is the Head of Corporate Compliance at Mining Corporate Pty Ltd, involved in various corporate transactions. He currently serves as company secretary for several ASX listed companies and is a Non-Executive Director of Krakatoa Resources Limited and Albion Resources Limited.



# James Bay, Canada: Emerging World-Class Lithium District









# Significant Landholding, Prospective Region

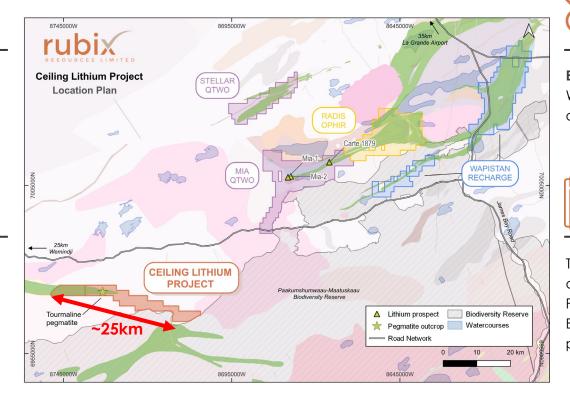


Comprises 101 active mineral claims over a contiguous property covering an area of >5,000 hectares



Encompasses ~25km strike-length of the Wemindji Greenstone Belt

# **The Ceiling Lithium Project**

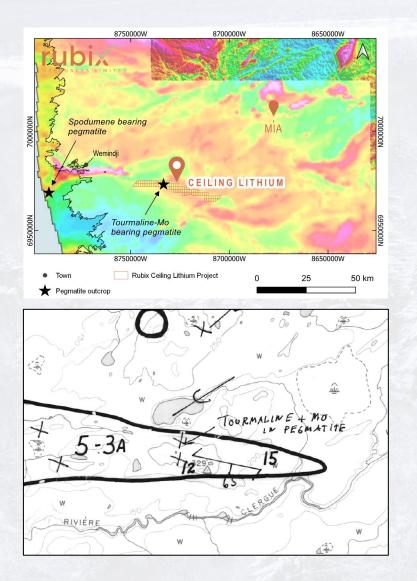


**Benefits from** nearby road access to the Wemindji community (~4.5km away) and access to hydro power



To the south, **pegmatite outcrops** are documented within the Paakumshumwaau-Maatuskaau Biodiversity Reserve\* (\*protected in perpetuity as of 2020)





Greenfields Exploration Wemindji Greenstone Belt (WGB) forms a relative magnetic low flanked by magnetic highs

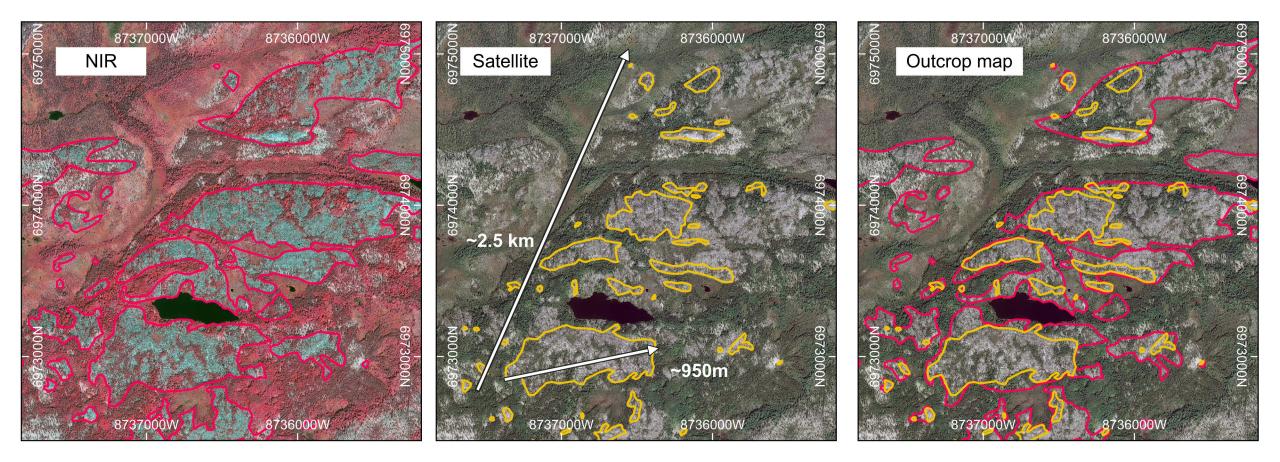
Unlike most of Quebec, there is only limited high-resolution geophysical data over this area \*New data due to be collected in 2023 by MERN

Project area is otherwise comparatively under-explored - mapping at a regional scale only, with very few outcrops or geochemical analyses mapped by MERN

Top: Regional magnetic data and location of the Ceiling Lithium Project, with approximate pegmatite outcrop location indicated.



Orthoimagery (at 0.5m resolution) shows several promising areas of granitic (grey) and possibly pegmatitic outcrop (bright white-grey) from which to commence initial exploration<sup>1</sup>





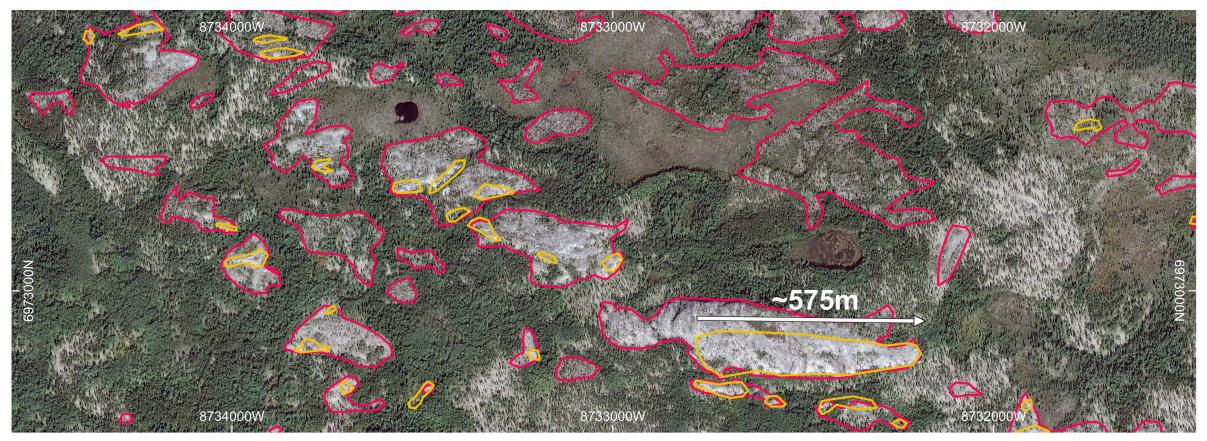
Pegmatites (interpreted) - white-rocks
 Outcrop (interpreted) - NIR targeting

0 0.25 0.5 km

-10

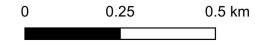


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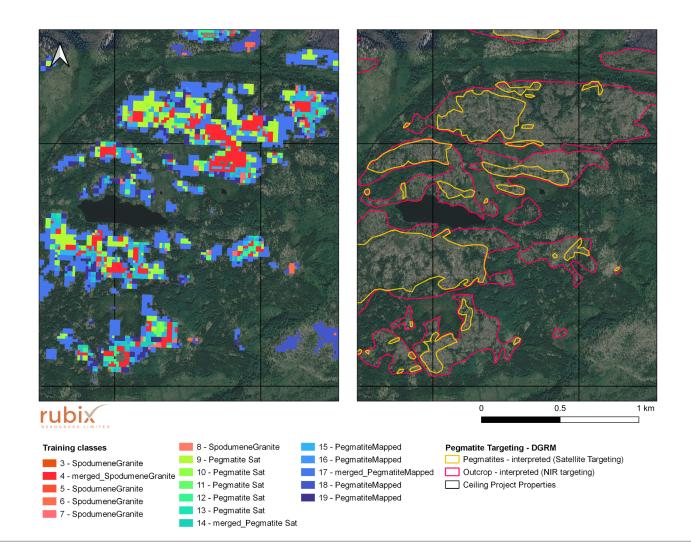


Pegmatites (interpreted) -white-rocks
 Outcrop (interpreted) -NIR targeting



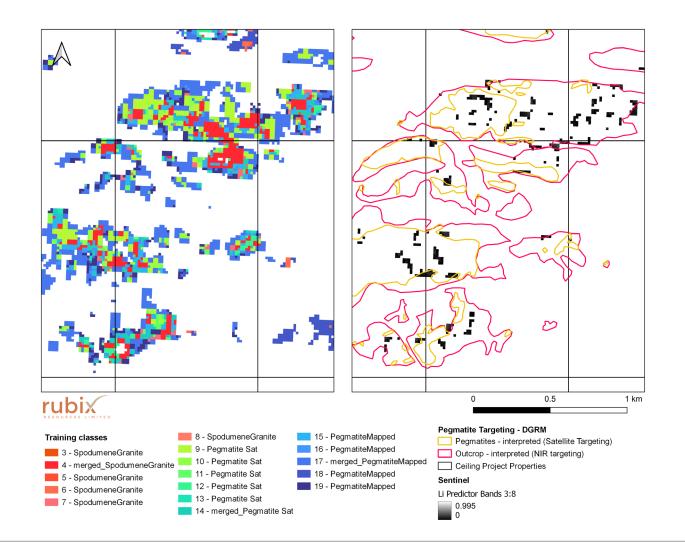


Hyperspectral mapping and Li prediction shows good correspondence with previous satellite interpretation and suggest that the Ceiling Project has numerous areas which may be prospective for lithium.<sup>2</sup>

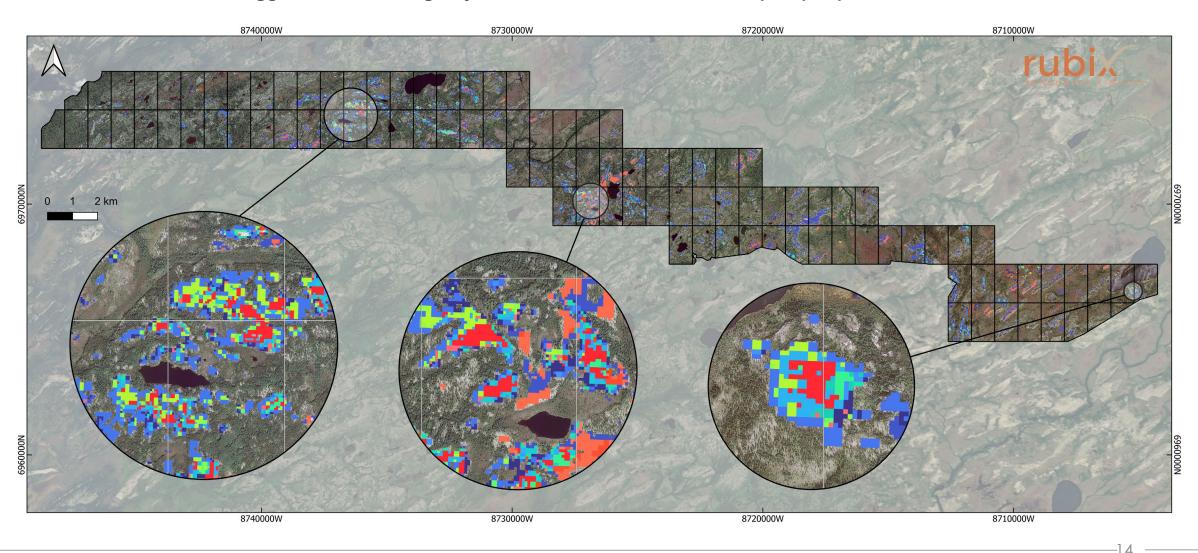




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# **Regional Geology**

Prospective regional geology known to host Li-pegmatite mineralisation

- Yasinski Greenstone Belt (Groupe de Yasinski)
- Granite du Vieux-Comptoir (Avcr)
  - Pink granites and pegmatite with mica, tourmaline and garnet, sometimes beryl
  - Same mapped lithology as Q2 (Mia) and PMET (Corvette)
- The Vieux-Comptoir granitic suite is associated with lithium-pegmatite mineralisation

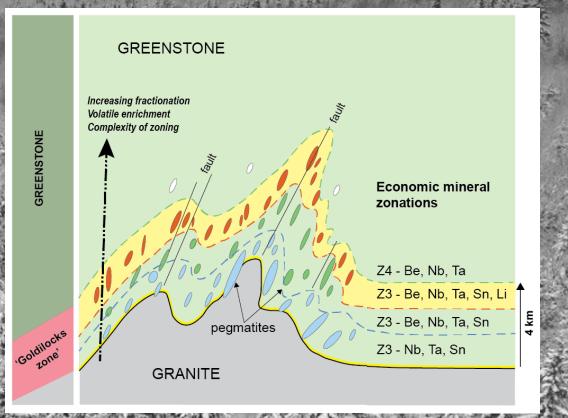


Figure modified from: Černý, P. (1991). Rare-element Granitic Pegmatites. Part I: Anatomy and Internal Evolution of Pegmatitic Deposits. Geoscience Canada, 18(2)

17.7.2 P. (101-14 orb) 70



# In Good Company at James Bay



#### Corvette – Patriot Battery Metals

- Market cap:~\$1.5B CAD
- CV5 mineral resource of 109.2 Mt @ 1.42% Li<sub>2</sub>O and 160ppm Ta<sub>2</sub>O<sub>5</sub> (Inferred) reported with a cut-off grade of 0.4% Ll<sub>2</sub>O\*<sup>3</sup>
- CV Lithium Trend spans more than 25km with 70+ pegmatite outcrops identified.
- Located near Canadian infrastructure allowing potential low-carbon emission Li production.
- Notable lithium findings include 108.0m @ 2.44% Li2O (Nova Zone)<sup>4</sup> and 156.9m @ 2.12% Li<sub>2</sub>O (CV5)<sup>5</sup>.

# Allkem

#### James Bay Project – Allkem

- Market cap: ~\$9B
- Mineral resource estimate of 110.2 Mt @ 1.30% Li\_2O, including 54.3 Mt at 1.30% Li\_2O (Indicated) and 55.9 Mt at 1.29% Li\_2O (Inferred)<sup>6^</sup>
- Located ~175km to the south-southeast of the Ceiling Project
- Pegmatites are hosted within a "deformation corridor" over a strike length of 5km, of which 2.8km has been drill tested.



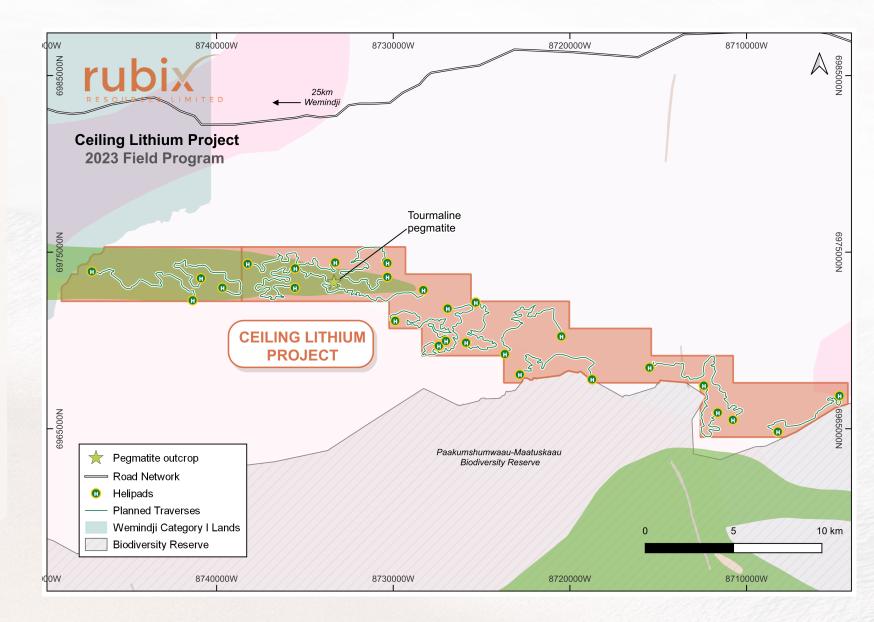
#### The Mia Project – Q2 Metals

- Market cap: ~\$75m
- The project is located in the Yasinski Greenstone Belt, just 50km to the northeast.
- Spodumene confirmed at Mia Li-1 with 18 samples having an average grades of 2.65% Li<sub>2</sub>O<sup>7</sup>.
- Spodumene confirmed at Carte Zone, with grab samples of 2.01%, 1.57% and 1.04% Li<sub>2</sub>O<sup>7</sup>.
- An unsampled pegmatite trend of 7km identified between Mia Li-1 and Mia-Li-2 and Carte 1879.

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# Ceiling Timeline: Next Steps

- Helicopter-supported site visit and field campaign commencing October 19<sup>th</sup> 2023 with Dahrouge Geological Consulting
- Geological mapping and sampling, focus on Priority areas (90-100 samples)
- Results from LiDAR & highresolution orthoimagery collection
- Assay results from fieldwork
  expected Q4 2023
- Q1 2024 follow-up fieldwork and/or drill testing





# Rubix Australian Projects

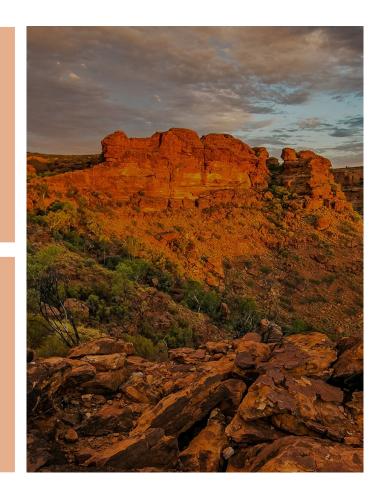
#### PAPERBARK

100% owned with Pb-Zn defined Exploration Target (the JB Zone) and copper potential. Upcoming exploration activities will seek to better understand the scale of the JB Zone target and investigate the potential of the Tasman Prospect to the east, in the hanging wall of the Tasman Fault.



#### LAKE JOHNSTON

Encouraging Ultrafine+ soil geochemical results suggest potential for fragments of the Lake Johnston Greenstone Belt within the project area, including rock units analogous to those hosting nickel mineralisation at Maggie Hayes and Emily Ann.





# Ceiling Lithium Project Highlights

#### **Premier Lithium Region**

Ceiling Lithium Project is located in the worldrenowned lithium district of James Bay, Quebec, Canada.

#### **Expertise in Execution**

The project leverages the expertise of DG Resource Management (also discovered/vended in Patriot's Corvette Lithium Project) for fieldwork execution and potential drill target identification.

#### **Favourable Project Location**

Strategically positioned within the underexplored Wemindji Greenstone Belt, the project benefits from local road access and hydro power.



### Significant Project Scale

The project comprises over 5,000 hectares with 101 active mineral claims, covering a 25km strikelength of the Wemindji Greenstone Belt.

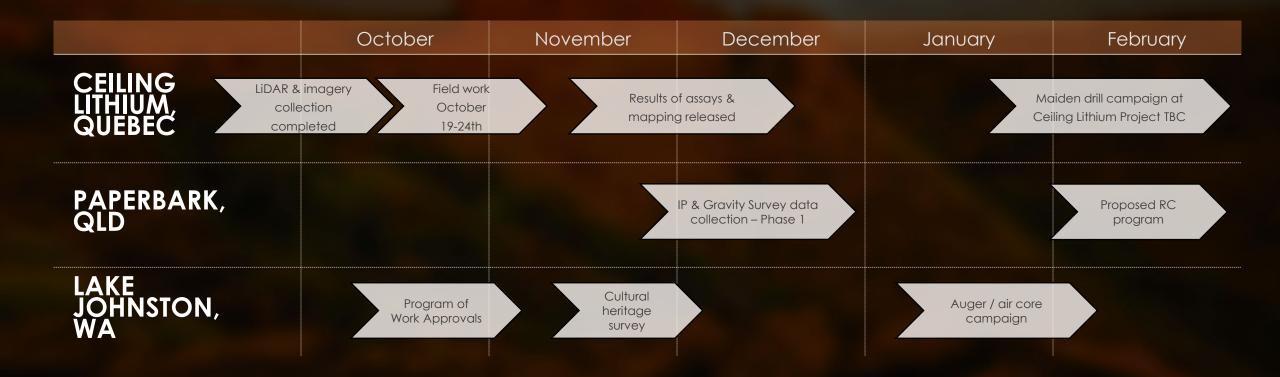
#### **Potential for Multiple Commodities**

Besides lithium, there is potential for gold deposits within the project site, offering resource diversification.

### **Drilling Funded**

Fully funded to complete a maiden drilling campaign.

# Project Timeline through CY23-24



RUBIX RESOURCES LIMITED <u>contact@rubixresources.com.au</u> <u>RubixResources.com.au</u>

ASX: RB6

#### References

- 3 August 2023 "Potential Pegmatite Outcrops Identified in Satellite Imagery"
- 2. 7 September 2023 "Encouraging Hyperspectral Mapping Results at Ceiling Lithium"
- 3. Patriot Battery Metals release dated 30 July 2023 "Patriot Announces the Largest Lithium Pegmatite Resource in the Americas at CV5, Corvette Property, Quebec, Canada"
- 4. Patriot Battery Metals announcement July 10 2023 "PATRIOT ANNOUNCES FINAL CORE ASSAY RESULTS FROM ITS 2023 WINTER DRILL PROGRAM, INCLUDING 108.0 M AT 2.44% LI2O, AT THE CV5 PEGMATITE, CORVETTE PROPERTY, QUEBEC, CANADA"
- 5. Patriot Battery Metals August 2023 Corporate Presentation
- 6. Alkem ASX release date 11 August 2023 "JAMES BAY MINERAL RESOURCE INCREASED BY 173% TO 110.2 MILLION TONNES"
- Q2 Metals September 2023 Investor Presentation