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**SAYONA**  
MINING LIMITED



**Resourcing the  
clean energy revolution**

MARCH 2019

ASX: **SYA**

# Disclaimer



## Forward Looking Statements

This presentation may contain certain forward looking statements. Such statements are only predictions, based on certain assumptions and involve known and unknown risks, uncertainties and other factors, many of which are beyond Sayona Limited's control. Actual events or results may differ materially from the events or results expected or implied in any forward looking statement. The inclusion of such statements should not be regarded as a representation, warranty or prediction with respect to the accuracy of the underlying assumptions or that any forward looking statements will be or are likely to be fulfilled. Sayona Limited undertakes no obligation to update any forward-looking statement to reflect events or circumstances after the date of this presentation (subject to securities exchange disclosure requirements). The information in this presentation does not take into account the objectives, financial situation or particular needs of any person. Nothing contained in this presentation constitutes investment, legal, tax or other advice.

## Reference To Previous ASX Releases

This presentation refers to the following previous ASX releases:

- Authier Downstream Concept Study Demonstrates Positive Economics, 30 August 2017
- Authier Project Expanded JORC Ore Reserve and Resources, 24 September 2018
- Positive Authier Definitive Feasibility Study, 24 September 2018

The Company confirms that it is not aware of any new information or data that materially affects the information included in the original market announcement and all material assumptions and technical parameters continue to apply and have not materially changed. The Company confirms that the form and context in which the Competent Person's findings are presented have not been materially modified from the original market announcements.

## Downstream Concept Study

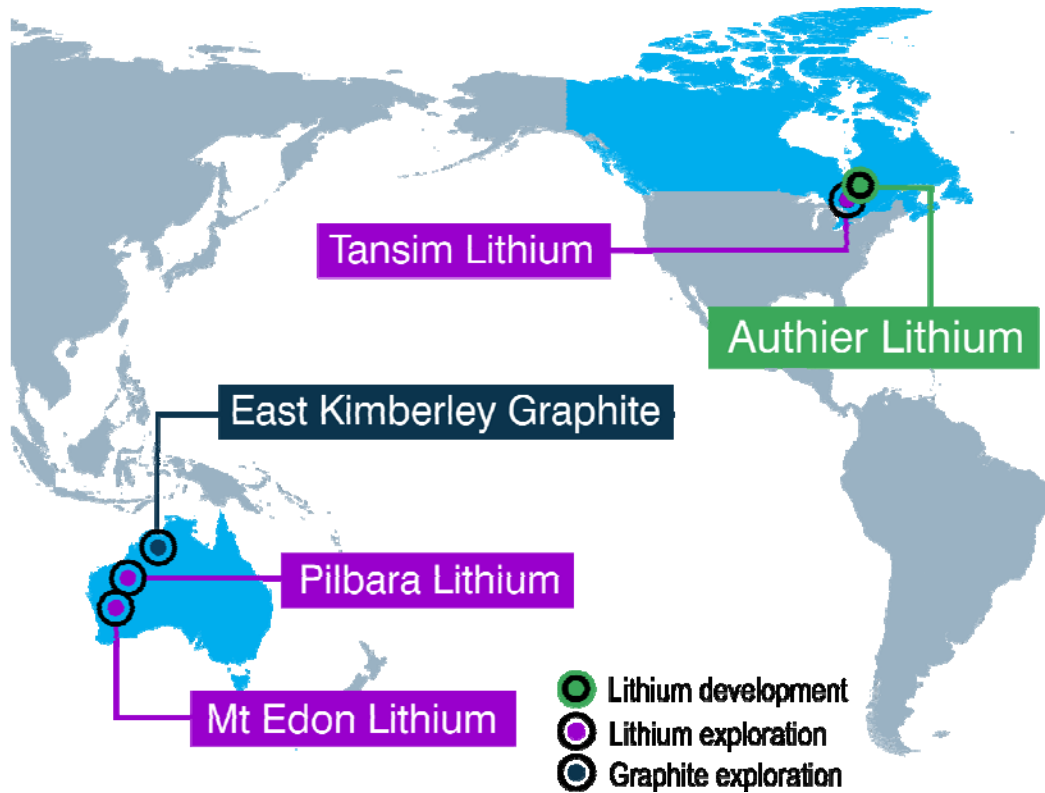
The Concept Study referred to in this announcement has been undertaken to determine the potential viability of downstream processing Authier concentrates into lithium carbonate and/or hydroxide. It is based on a low level technical and economic assessment and was based on the AACE International Recommended Practice No. 18R-97, as a Class 4 estimate. The study has not been used as the basis for the estimation of Ore Reserves. Further technical and economic assessment including, metallurgical testing, Feasibility Study and permitting will be required to provide any assurance or certainty of an economic development case.

The Concept Study is based on the mine and concentrator assumptions (includes Ore Reserves) outlined in the February 2017 Authier Pre-Feasibility Study, Authier Updated JORC Resource report (14 June 2017), a report prepared by Wave International on the downstream capital and operating costs, Appendix – Project Design Criteria, and other material assumptions outlined elsewhere in this document. Whilst the Company considers all the material assumptions to be based on reasonable grounds, there is no certainty that they will prove to be correct or that the outcomes indicated in the Concept Study will be achieved.

To achieve the potential downstream process plant development outcomes indicated in this Concept Study, additional funding will be required. Funding will be required to complete metallurgical testing (\$100,000), feasibility studies and permitting (approximately \$1,000,000) and development (approximately \$223 to \$240 million depending on whether it is a lithium carbonate or lithium hydroxide plant). Investors should note that there is no certainty that the Company will be able to raise the funding when needed. It is also possible that such funding may only be available at terms that may be too dilutive to or otherwise affect the value of Sayona shares. It is also possible that Sayona could pursue other value realisation strategies such as sale, partial sale or joint venture of the project. If it does, this could materially reduce Sayona's proportionate ownership of the project. Given the uncertainties involved, investors should not make any investment decisions based solely on the results of the Concept Study.

The Company has concluded it has reasonable basis for providing forward looking statements included in this announcement and believes that it has a reasonable basis to expect it will be able to continue funding the feasibility activities for the project.

# Sayona - At a Glance



- ASX listed, lithium exploration and development company
- Flagship project Authier Lithium Project in Quebec, Canada
- Significant portfolio of lithium exploration properties in Australia and Canada

# Corporate Summary



Share Structure	
Trading Exchange	<b>ASX: SYA/SYAOB</b>
Shares	1,721,259,993
Options	120,242,789 7.8¢ exercise, expiry 30 April 2020
Shareholders	17% Directors 44% Top 20

Capitalisation	
Price As at 25 March 2019	<b>1.5¢</b>
Market cap	<b>AUD\$25.8m</b>
Cash As at 31 December 2018	<b>AUD\$4.5m</b>
Debt	<b>Nil</b>
Enterprise value	<b>\$30.3m</b>



## Board Experienced in Developing Projects

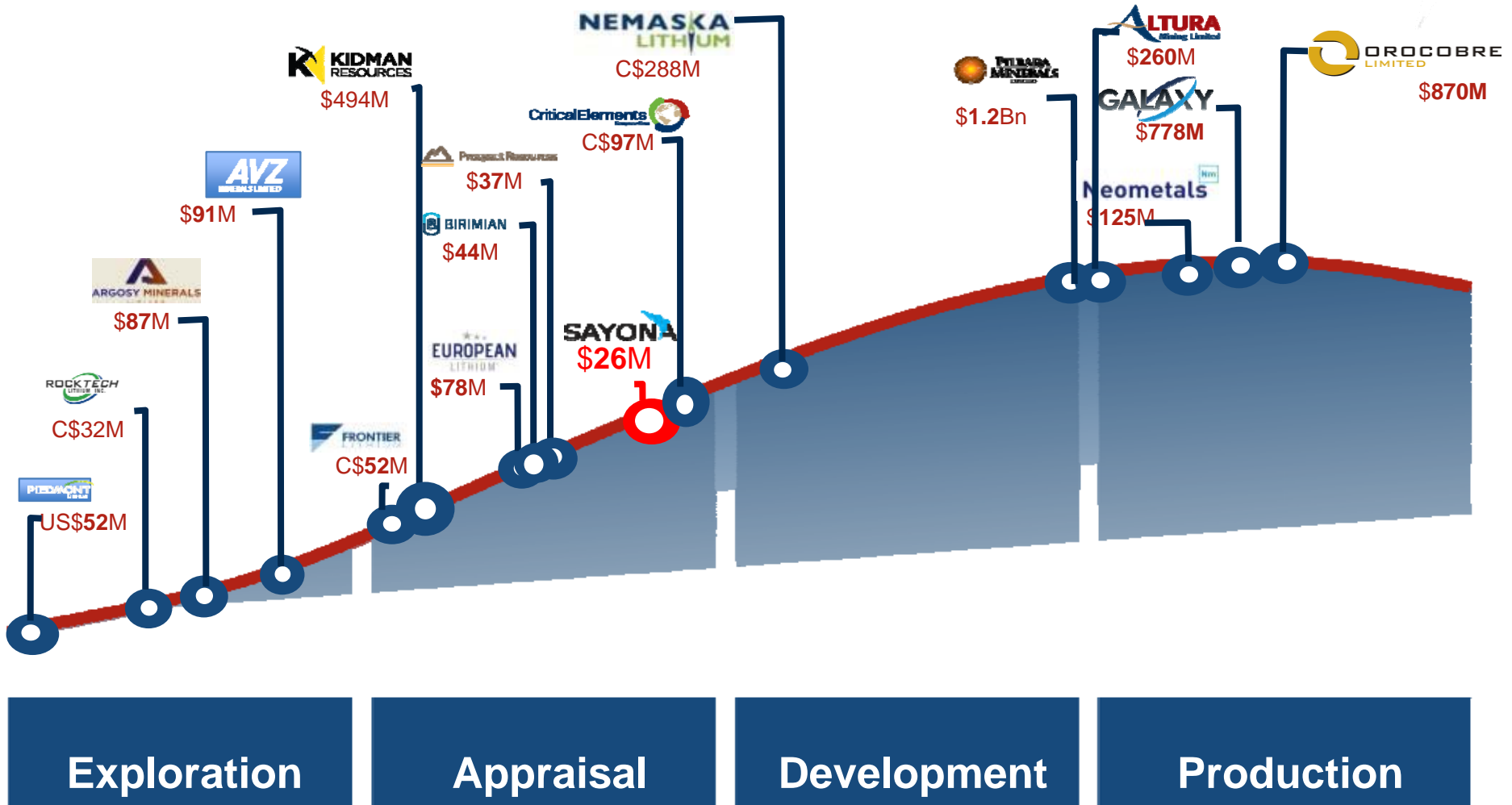


Dedicated to generating shareholder value by replicating past success

<b>James Brown</b>	<ul style="list-style-type: none"> <li>• 35 years' experience including 22 years with New Hope Corporation. Extensive mine development &amp; operational experience</li> <li>• Managing Director of Altura Mining - &gt;\$260m market cap</li> </ul>
<b>Allan Buckler</b>	<ul style="list-style-type: none"> <li>• 40 years' experience building mining operations in Australia and Indonesia. Former Director and Chief Operations Officer for New Hope Corporation</li> <li>• Director of Altura Mining</li> </ul>
<b>Dan O'Neill</b>	<ul style="list-style-type: none"> <li>• Geologist with 40 years' experience in technical and corporate roles</li> <li>• Founding director of Orocobre Ltd. Director of Altura Mining</li> </ul>
<b>Paul Crawford</b>	<ul style="list-style-type: none"> <li>• CPA with 40 years' public company experience</li> <li>• Founding director of Orocobre Ltd and previously Company Secretary for a number of listed companies</li> </ul>

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# Attractively Valued vs Peers



6

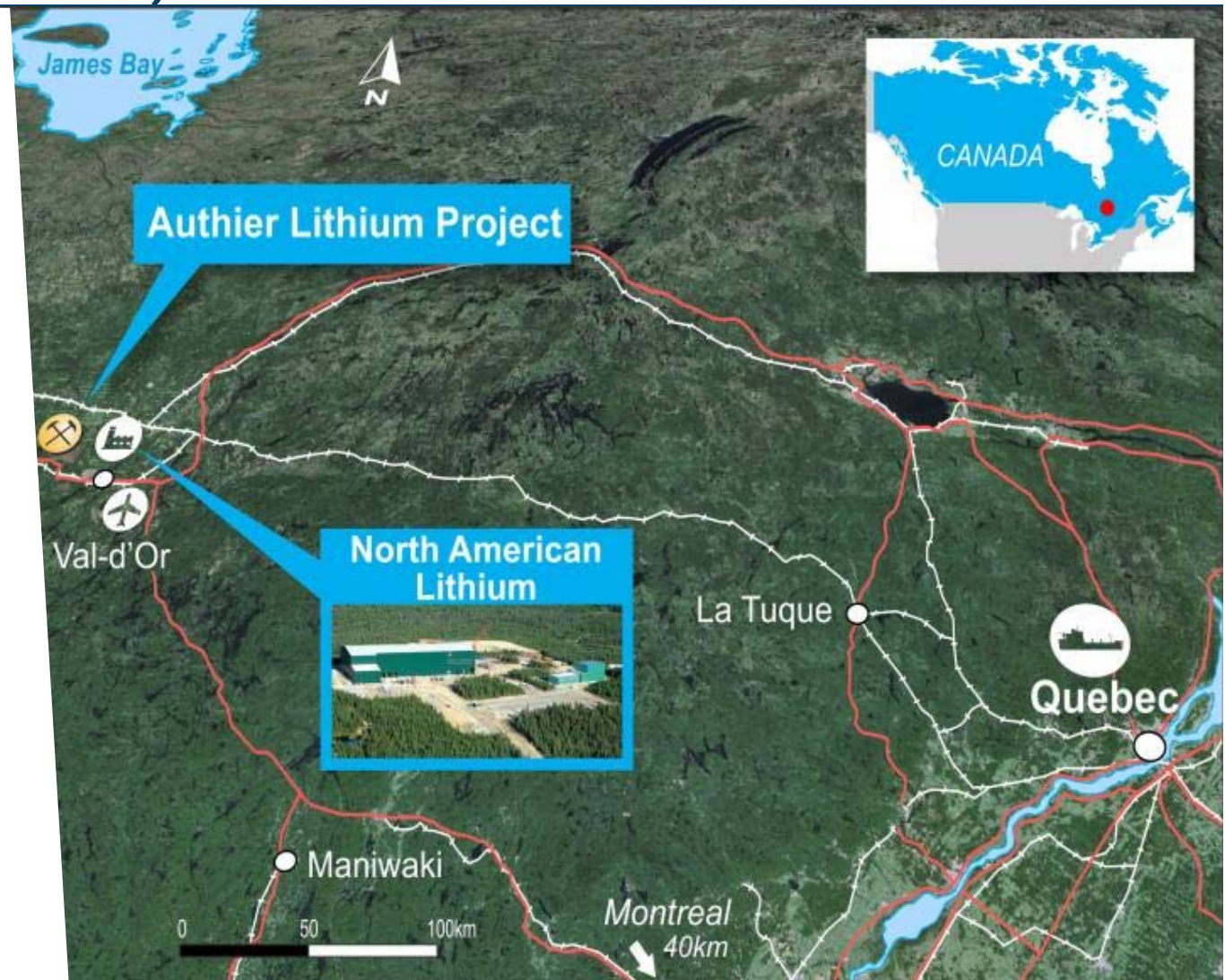
As at close of trade 25/3/19



# Authier Lithium Project



- Located 45km from Val d'Or in Quebec, Montreal (500km SE)
- Located in established mining district
- 100% owned
- Simple deposit - 26,000m of drilling
- DFS completed Sep 2018; review planned based on BAPE regulatory pathway



# Authier First-Phase Development



**Simple, low-cost, truck and shovel, open-cut mining operation**



**Conventional concentrator producing 6% Li<sub>2</sub>O concentrate**



**Definitive Feasibility Study completed** showing sustainable, profitable operation with estimated NPV of C\$184.8m\*



**Permitting** to progress through BAPE process



**Production** capacity under review with extended permitting process



**Low capital** hurdle and **competitive operating cost**



# Authier JORC Ore Reserve & Resource



**Deposit well understood** – 31,000 metres of drilling in 176 holes

Majority of **Ore Reserve hosted in one large pegmatite** – 1.1km long, 200m deep and 35m wide – outcropping from surface

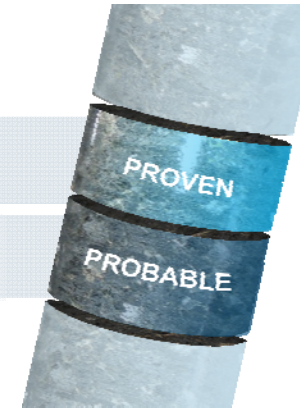
Lithium mineralisation **spodumene**

Base case mine Life – **18 years**

Deposit remains open in all **directions**

## JORC Ore Reserve\* (0.55% cut-off)

Tonnes (Mt)	Grades (Li2O)	Contained (Li2O)
6.1	0.99%	60,390
6.0	1.02%	61,200
<b>12.1</b>	<b>1.00%</b>	<b>121,590</b>



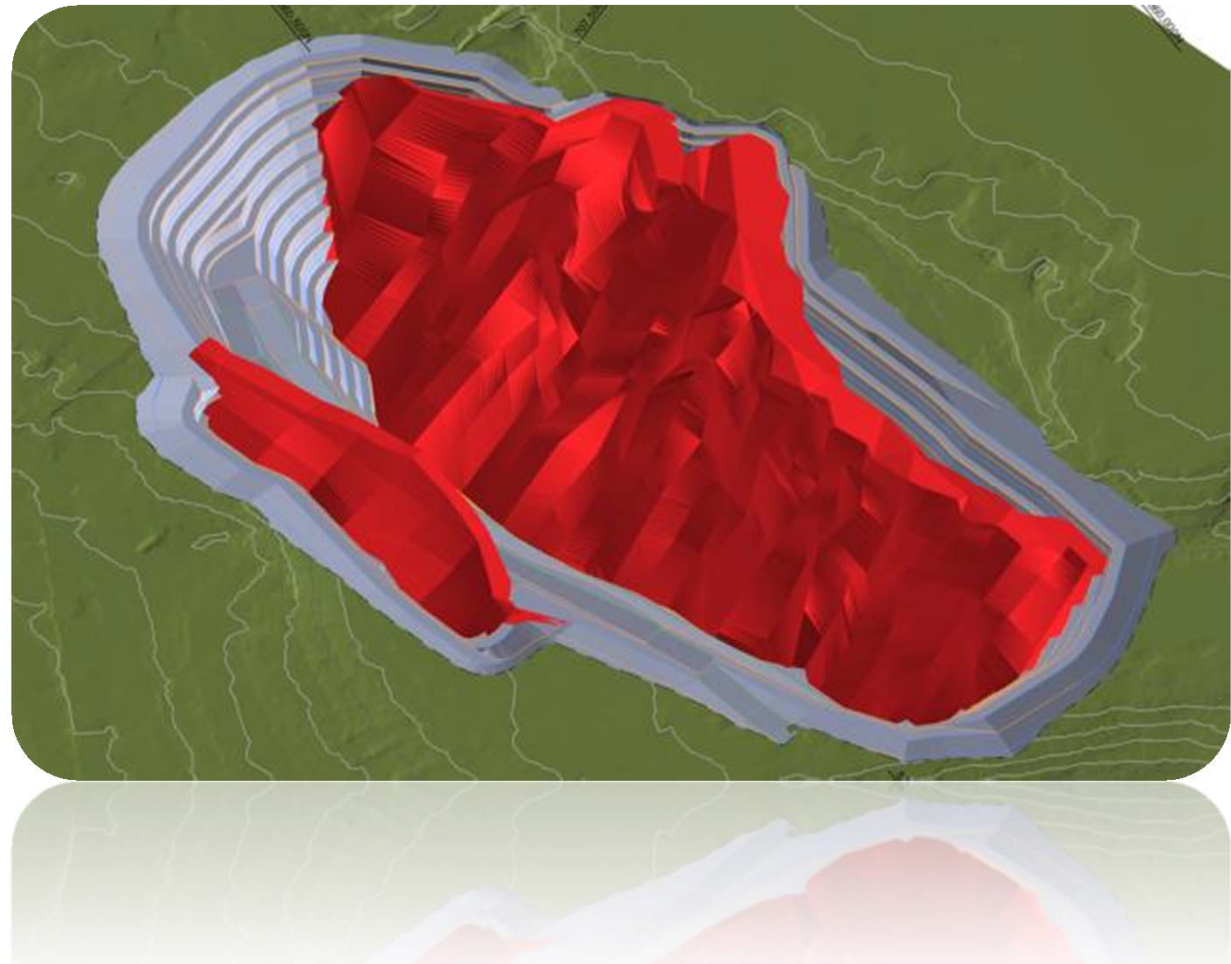
## JORC Mineral Resource (0.55% cut-off)

Tonnes (Mt)	Grades (Li2O)	Contained (Li2O)
6.58	1.02%	67,100
10.6	1.01%	107,100
3.76	0.98%	36,800
<b>20.94</b>	<b>1.01%</b>	<b>211,000</b>



# Simple, Open-Cut Mining Operation

- Simple Mining Method  
**Truck and shovel** operation
- Competitive Mining Costs
- Low Capex; Mining  
Fleet **Leased**
- Conservative geotechnical  
assumptions – **55°** pit slope
- Large, thick tabular body  
LOM waste to ore ratio **6.9:1**



# World-Class Infrastructure



5km  
Low cost hydro power & gas

5km  
Sealed road access

20km  
Rail access to export port

Experienced local mining workforce

Major new hub of lithium carbonate production

Electricity 5¢ kWh and Gas \$3 /GJ

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# Downstream Value-Adding Potential



Capitalises on the **premium price paid for value-added products**



**Standard sulphate process route** to produce 13kt/yr LCE –  $\text{LiCO}_3/\text{LiOH}$



**Concept study completed; Pre-Feasibility Study pending**



Close to **US battery markets**



Leverages **low-cost energy** and **world-class infrastructure** in Quebec



**Significantly enhances project NPV:** pre-tax NPV \$795m for LiOH

# Integrated Refinery Model



Authier Downstream Processing Financial Highlights\*  
(Approximate Values Derived from the Scoping Study)

Description	Unit	Lithium Carbonate	Lithium Hydroxide
Annual Production Capacity	Tonnes	13,000	14,000
Ave Cash operating Costs*	C\$ per tonne	6,331	6,032
Ave Cash Operating Costs*	US\$ per tonne	4,812	4,585
Price forecast	US\$ per tonne	10,200	12,000
Initial Capital#	C\$ million	223	240
Total Capital#	C\$ million	284	301
Pre-tax NPV @ 9%DR	C\$ million	426	794
Pre-Tax IRR	%	31	44
Exchange rate	CAD\$:US\$	0.76	0.76

\* Cash Operating Costs includes mining, processing, administration, royalties, transport, and downstream processing

# Capital expenditure includes all mine, concentrator and downstream process plant

\* Please see Scoping Study disclaimer on page 2 and ASX release, "Downstream Study Demonstrates Positive Economics," 30 August 2017



# Sayona Investment Proposition



**Authier is an advanced, de-risked project on track for development**



Located in a **first world country** with **access to world-class, low-cost infrastructure**



**Base case pre-tax NPV of C\$184 million** and **low enterprise value per tonne of resources** compared to industry peers



Opportunity to **value-add Authier concentrates** and create **significant shareholder value**; plus upside from project pipeline in Canada, WA



Board and management team have **track record of delivering projects around the world**

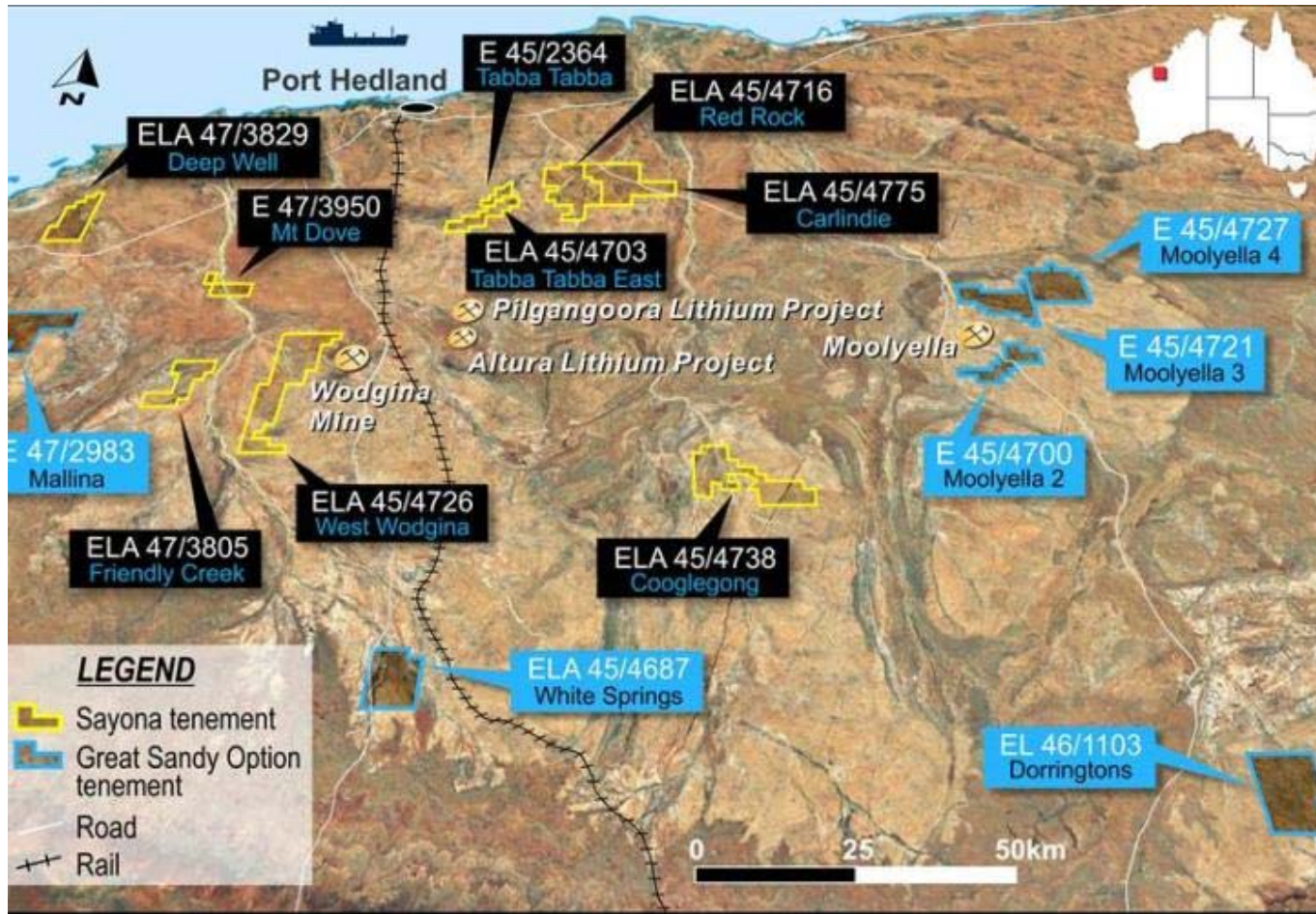
# Tansim, Quebec Shows Early Potential



- 9 kilometre pegmatite system mapped
- High-grade lithium returned in selective sampling, including up to 4.5% Li<sub>2</sub>O
- 15 • Further drilling planned



# Western Australian Lithium Portfolio



1,898km<sup>2</sup> Tenement Package in a World-Class Lithium Province

# Lithium – Metal of the 21<sup>st</sup> Century



The lithium-ion battery is changing the way we generate, use, distribute and store energy



**Renewable**  
grid storage

>30%\*



**Transportation**  
electric and hybrid vehicles

25-30%\*



Consumer  
**electronics**

8-10%\*

**Battery and energy storage**  
for high technology industries



**driving unprecedented demand**

\* Projected compound annual growth rate until 2025

# Slow Supply Side Response to Keep Prices High



- **Slow ramp-up** of new projects
- **Funding constraints** – capex typically higher than market cap **for most new entrants**
- **Environmental & permitting constraints**
- New technology – **longer-lead times and higher capex** than PFS studies forecast. **High-risk, difficult to fund**



Supply of Lithium is under pressure to keep up with robust demand





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The logo for SAYONA MINING LIMITED features the word "SAYONA" in a large, white, sans-serif font. Above the letter "A" is a stylized blue graphic of a bird or a wing. Below "SAYONA" is the text "MINING LIMITED" in a smaller, white, sans-serif font. The background of the logo area is a dark, semi-transparent rectangle.

# SAYONA

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The background of the entire image is a composite of three elements: a close-up of a solar panel in the bottom left, a blurred view of a rocky landscape in the top right, and a close-up of an electric vehicle charging station with a blue cable plugged into a white car in the center. The text is overlaid on a dark semi-transparent rectangle in the upper left portion of the image.

[www.sayonamining.com.au](http://www.sayonamining.com.au)