



NOVEMBER 2016

Investor Presentation

# Charging Ahead at the Authier Lithium Project

ASX: **SYA**

*Sourcing the  
raw materials of the future*

# Buoyant Lithium Macro

## DEMAND



Renewable  
grid storage

>**30%**  
CAGR

Transportation  
electric and  
hybrid vehicles

**20-  
30%**  
CAGR

Consumer  
electronics

**8-10%**  
CAGR

## SUPPLY



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



Lithium  
Pricing has  
Remained  
Robust  
Reflecting  
Positive  
Outlook

# Sayona Value Proposition



**Developing an advanced, de-risked project** - simple open-cut mining and processing plant – crush, grind and flotation



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



Executing a plan to get into **production and generate cash flow** – manageable capital hurdle



**Low enterprise value (\$21m)** compared to industry peers



Board and management team have **track record of delivering projects**

# Catalysts for Share Price Re-rating

1

## Authier Pre-Feasibility Study

- Project economics
- Timeline to production
- Pathway to off-take and finance

2

## Authier Phase 2 Drilling

- Potential to expand JORC Resources
- Upgrading resource categories
- Reserve for DFS

3

## Authier JORC Reserve for DFS

4

## Western Australian Lithium Exploration

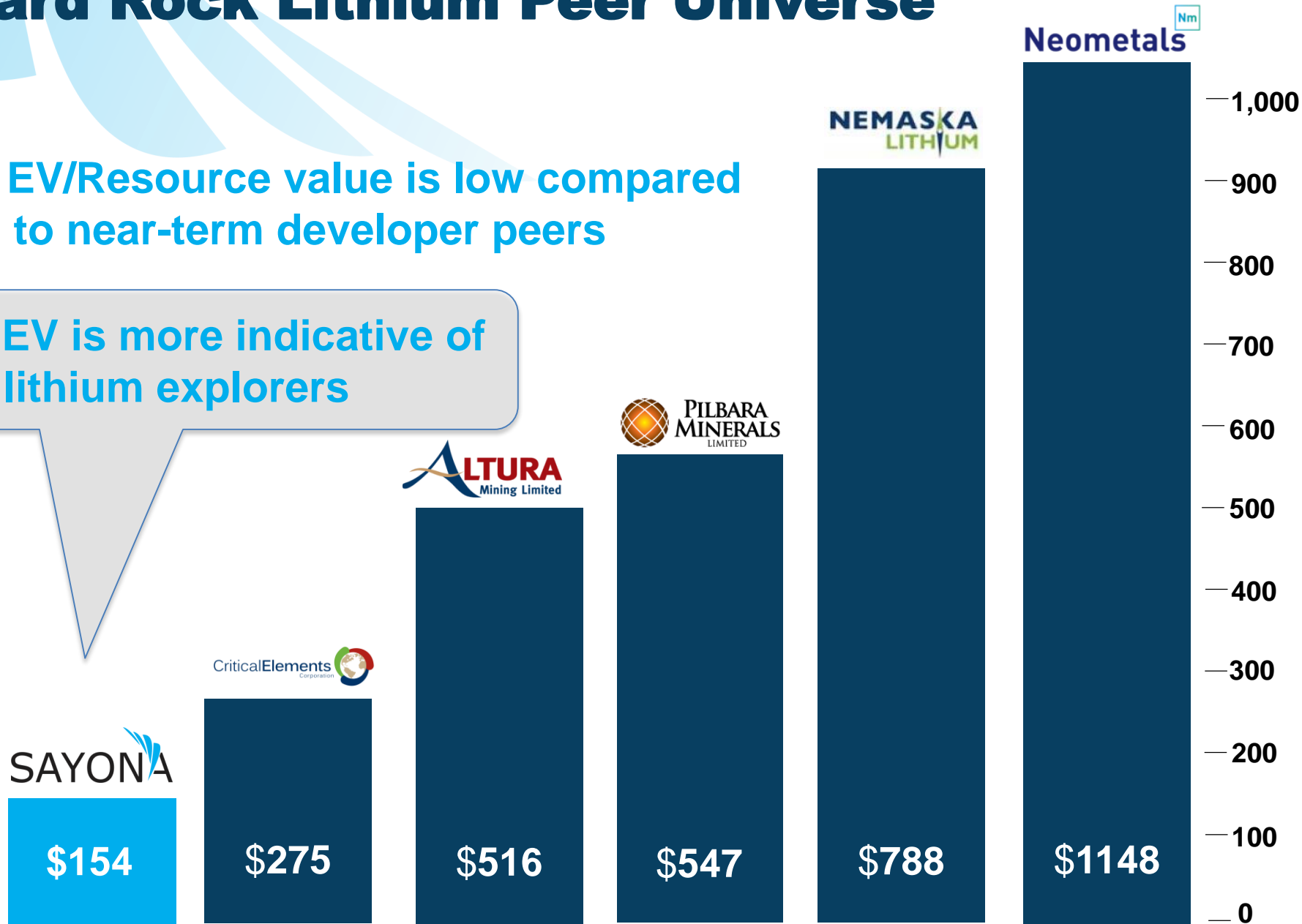
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## Portfolio Value-Adding Opportunities

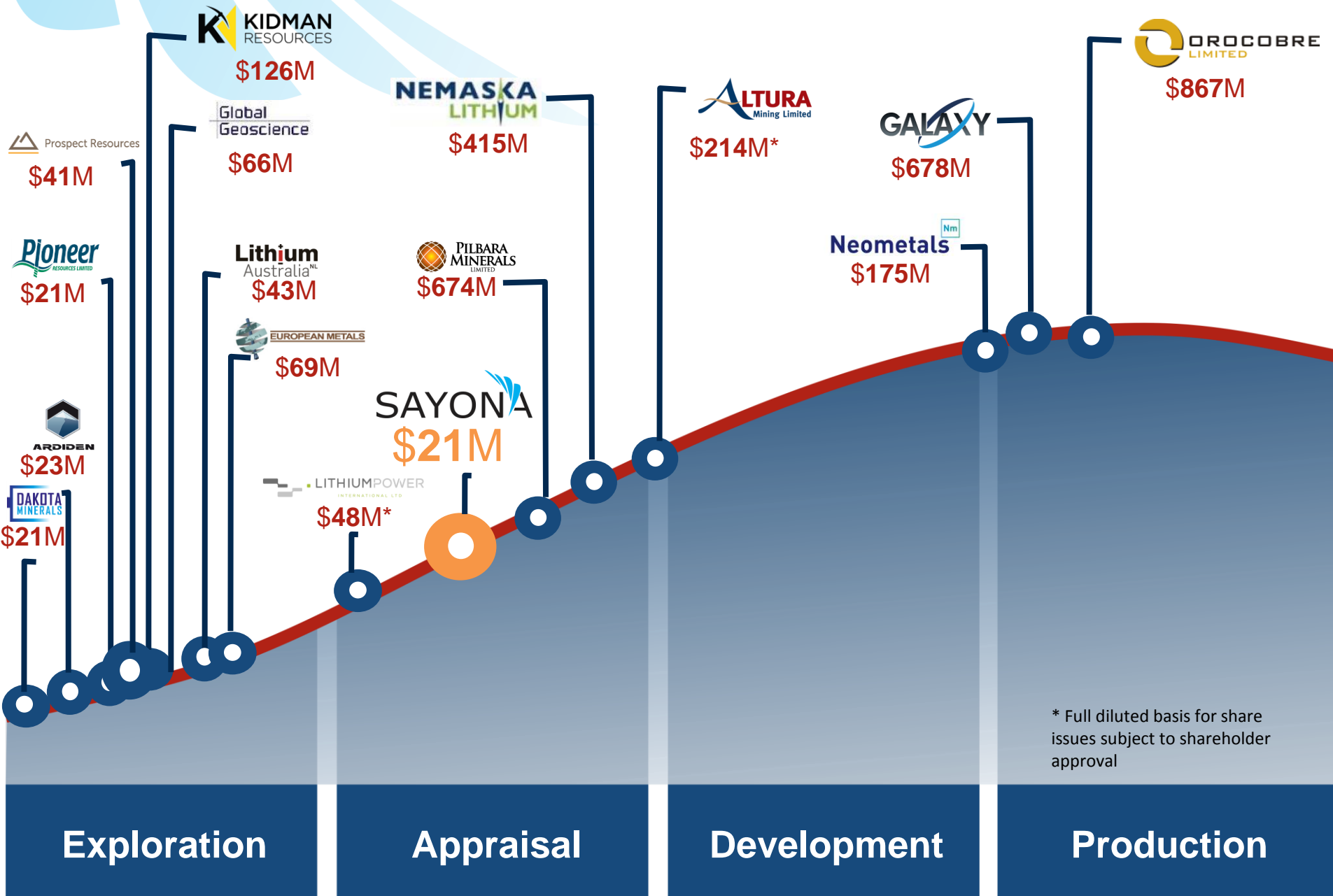
# Hard Rock Lithium Peer Universe

- EV/Resource value is low compared to near-term developer peers

- EV is more indicative of lithium explorers



# Authier Significantly Undervalued



\* Full diluted basis for share issues subject to shareholder approval

Exploration

Appraisal

Development

Production



# PROJET AUTHIER LITHIUM

[WWW.GLENEAGLERESOURCES.COM](http://WWW.GLENEAGLERESOURCES.COM)

**Nous ne sommes pas responsables des accidents.**

PROJET GÉRÉ PAR:



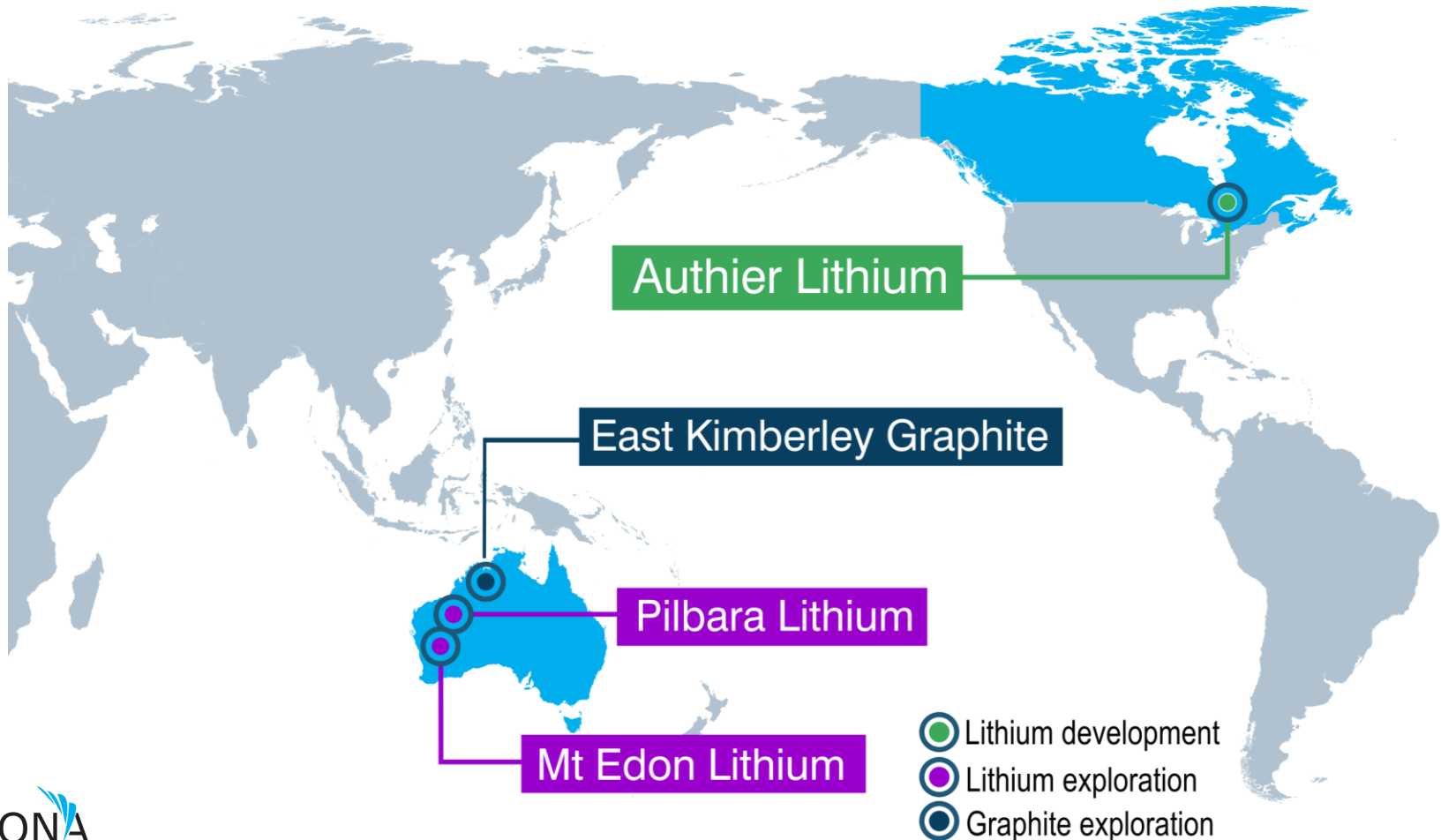
[WWW.SERVICESGFE.CA](http://WWW.SERVICESGFE.CA)

1 877 727 4080

# Corporate Strategy

**Sayona Mining's (ASX: SYA)** strategy is to **change the world and power the future** by sourcing and developing the raw materials essential for lithium-ion battery production

The Company's primary focus is the development of the advanced Authier lithium project in Quebec, Canada







# **Authier Lithium Project Overview**

# Quebec, Canada – A Major Mining Centre



*Malartic gold project, Quebec's largest open-cut mine, 25 km from Authier*

## Strong Government Support – Investment Partners in Mining



Canada's **largest** iron and zinc producer, and 2<sup>nd</sup> largest gold producer

**25** mines in production

**\$8.7**bn of mineral exports

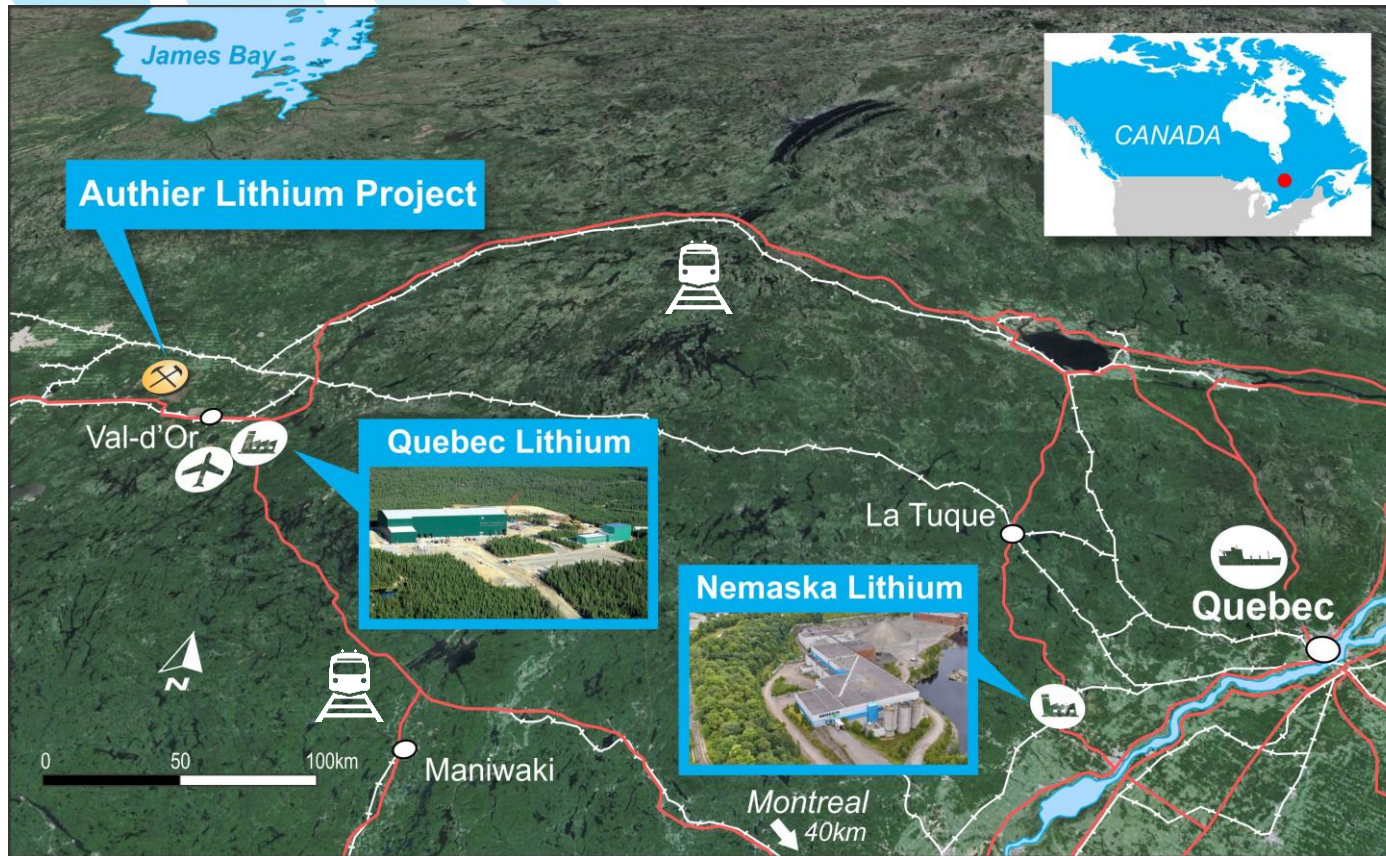
TOP rated mining jurisdiction  
by Fraser Institute  
– **No.6** in world

Stable taxes and  
**no royalties**

Well established permitting  
regime

Modern, efficient  
**infrastructure**

# Quebec - World-Class, Low-Cost Infrastructure



**5km**  
Low cost **hydro power and gas**

**5km**  
Sealed **road access**

**20km**  
**Rail access to port**  
Experienced **local mining workforce**

Major new hub of lithium carbonate production

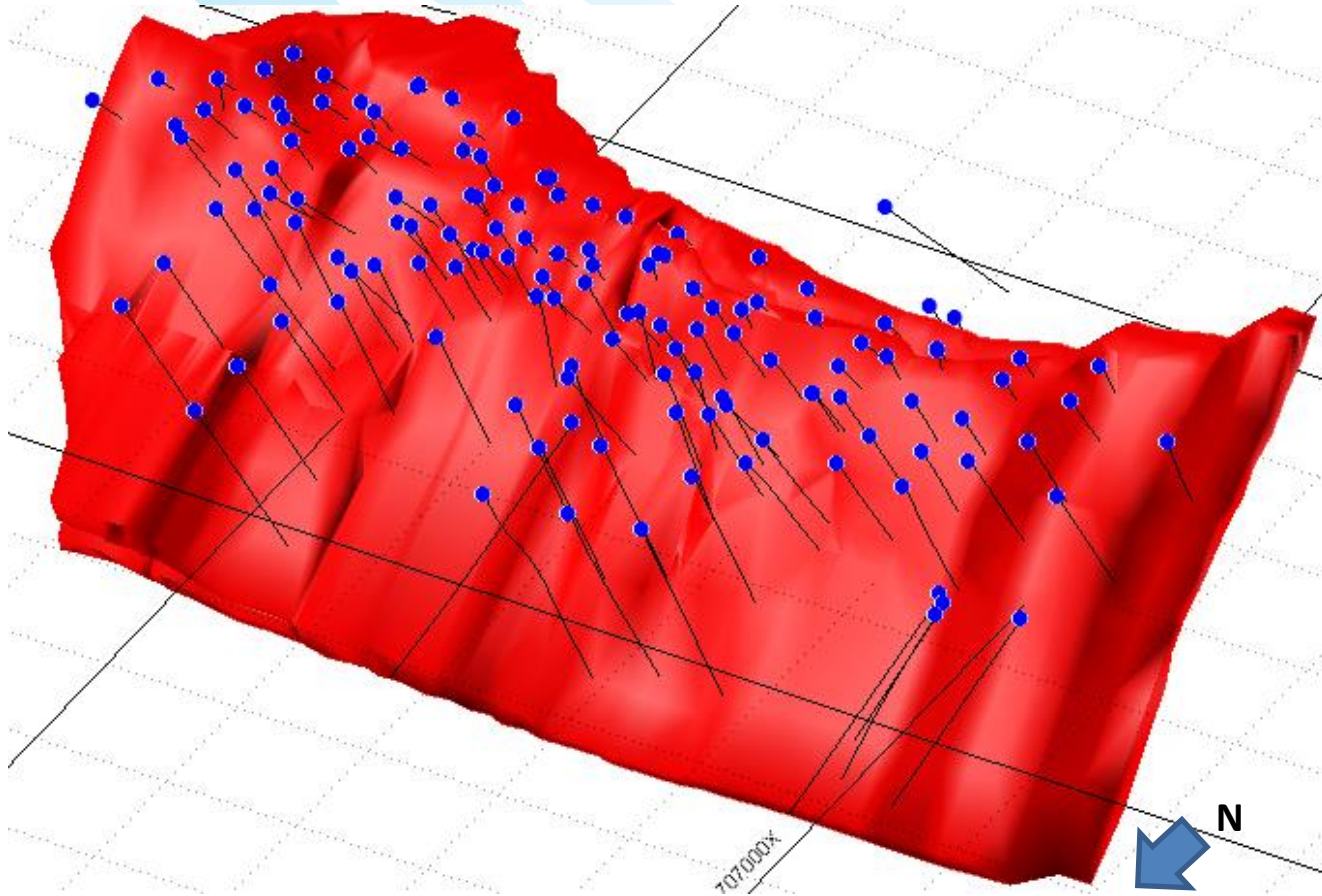
Electricity **5¢ kWh**

Gas < **\$3 /GJ**



# Authier Lithium Deposit

Simple, well-defined spodumene bearing pegmatite



**Authier  
Deposit**

**825m long  
25m average width**

**200m deep and  
still open**

**Well studied**

**NI43-101  
completed in 2013**

**Commercial and  
technical viability  
confirmed**

**18,800m** drilled

**141** holes

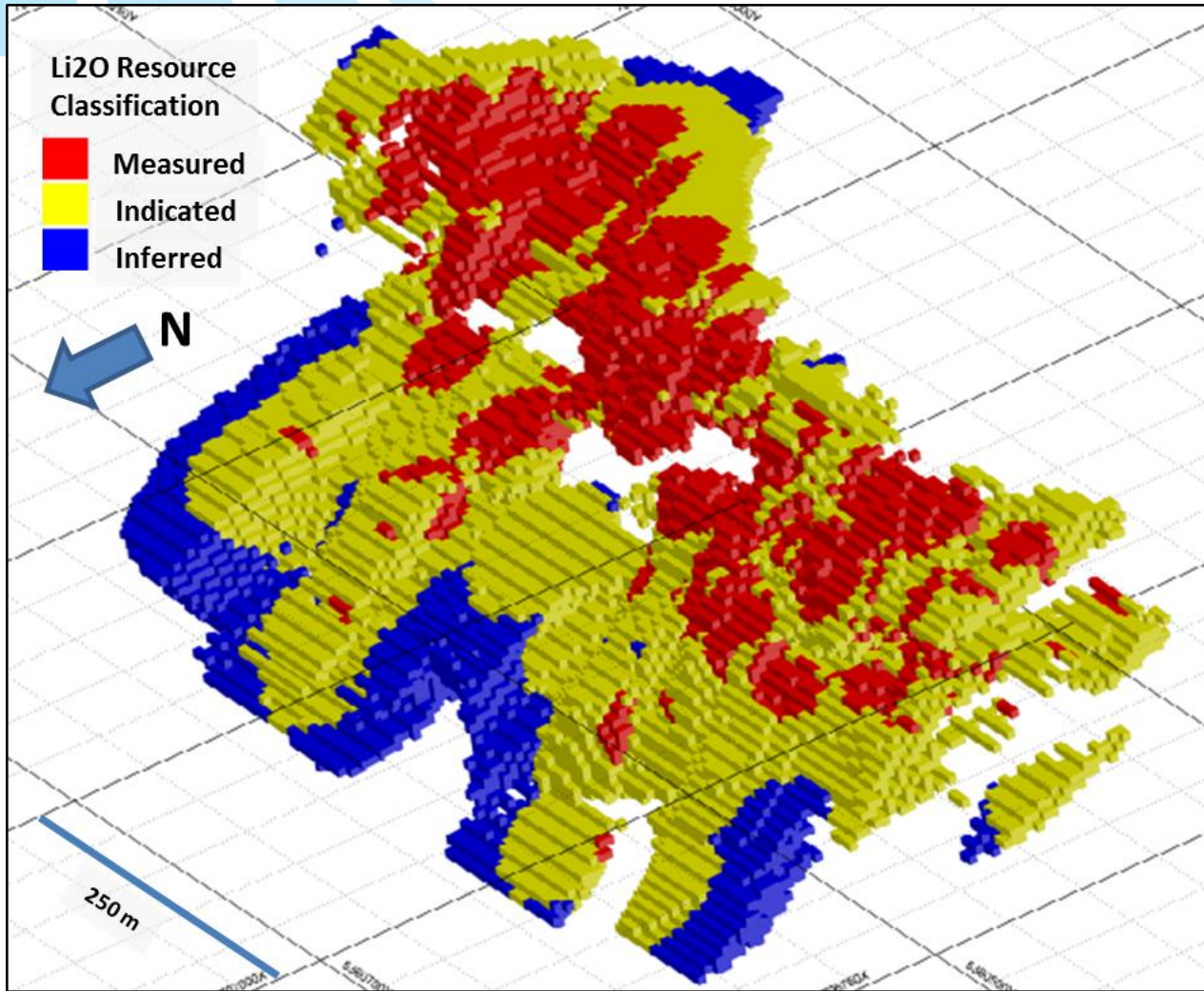
# Authier JORC Mineral Resource

	Tonnes (Mt)	Grades (Li <sub>2</sub> O)	Contained (Li <sub>2</sub> O)	
	4.72	1.03%	48,519	MEASURED
	7.13	1.10%	78,280	INDICATED
	1.90	1.05%	19,901	INFERRED

**TOTAL**      **13.74**      **1.07**      **146,700**  
                          Mt                           %Li<sub>2</sub>O                           Contained Li<sub>2</sub>O

Cautionary Note - Mineral Resources are not Ore Reserves and do not have demonstrated economic viability. There is no certainty that all or any part of the Mineral Resources estimated will be converted into Ore Reserves estimate. The resource has been estimated and reported in accordance with the guidelines of the Australasian Code for the Reporting of Exploration Results, Mineral Resources and Ore Reserves (JORC Code 2012). 0.5% Li<sub>2</sub>O cut-off grade

# Authier Deposit Resource Distribution



MEASURED

33%

INDICATED

53%

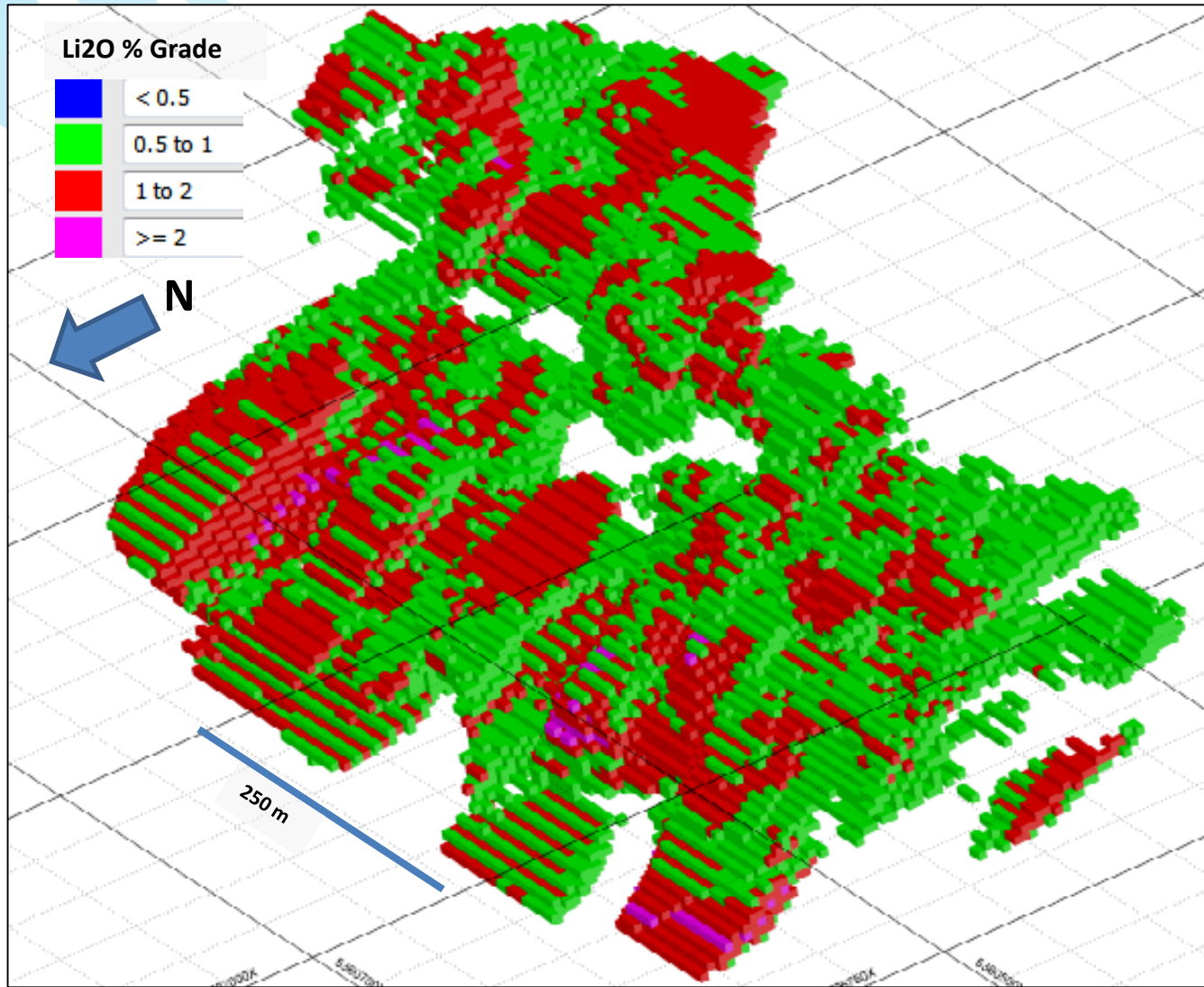
INFERRED

14%

High Proportion of Measured  
& Indicated Resources

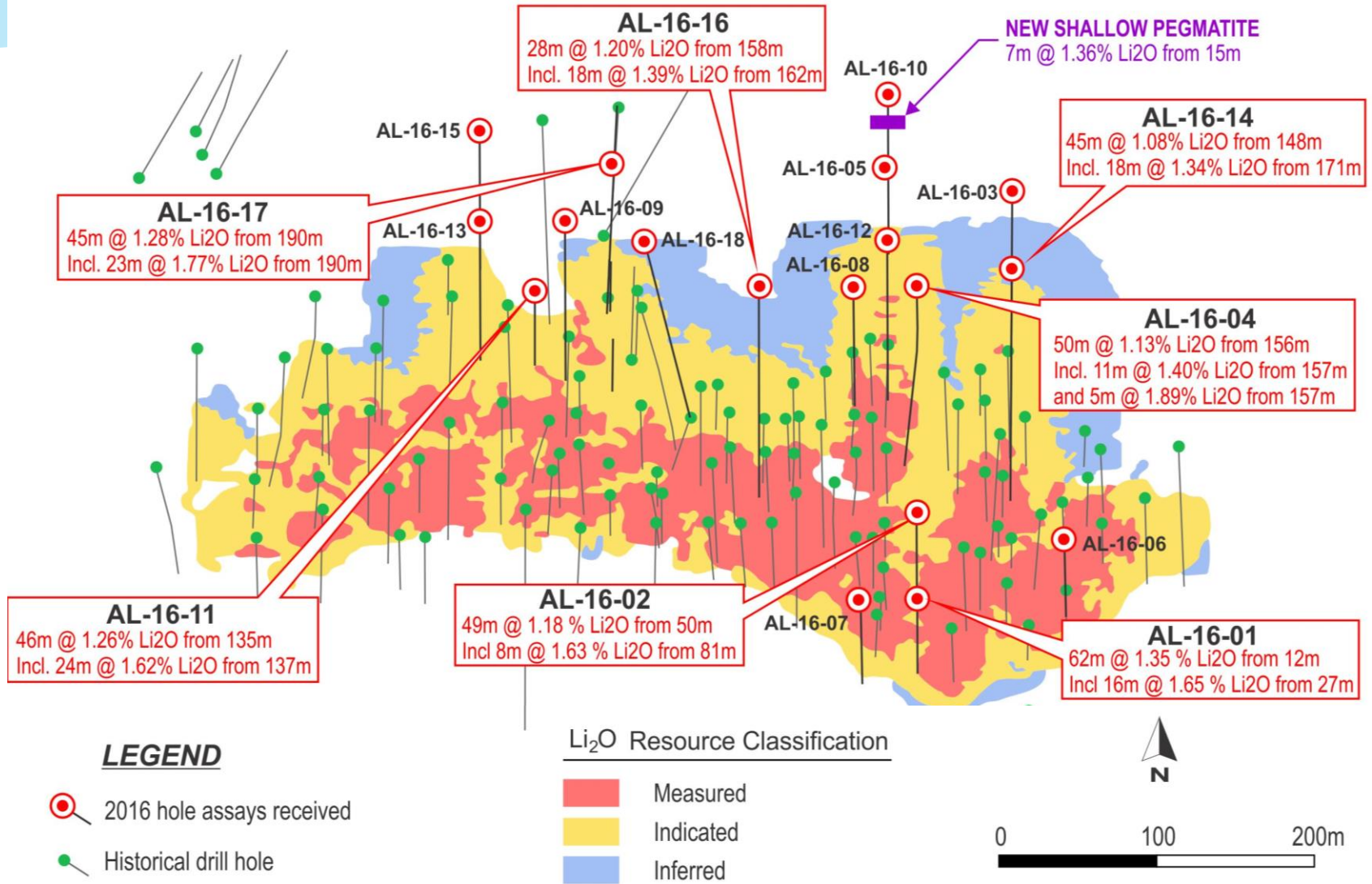
Expect High Conversion of  
Resource to Reserve

# Authier Deposit Grade Distribution



Strong geological and grade continuity throughout the deposit

# Highlights from the 2016 Drilling Program

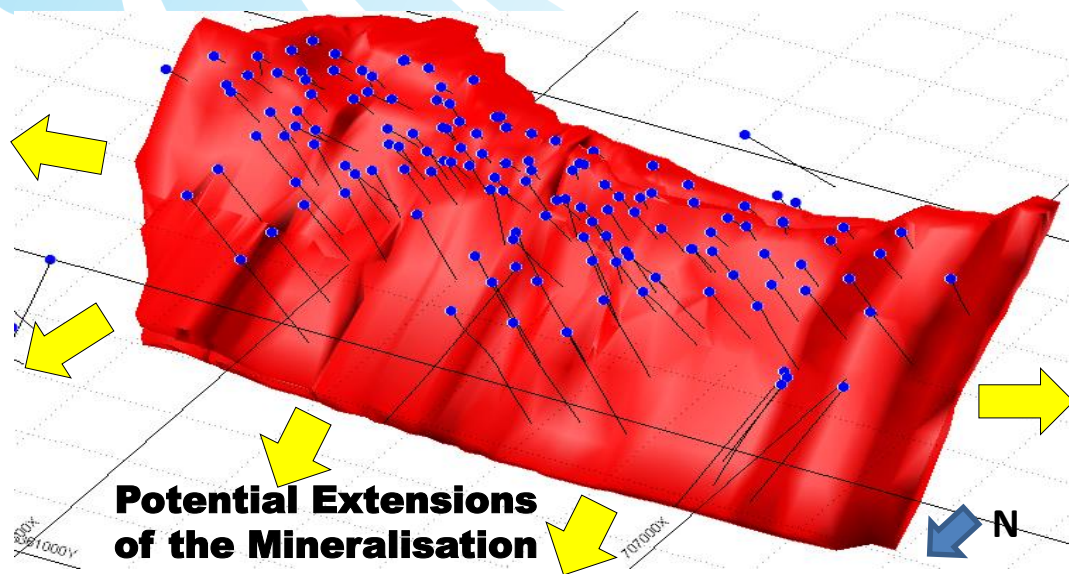


Deposit remains open at depth and along strike

New pegmatite discovery  
7m @ 1.36%Li<sub>2</sub>O from 15 metres



# Authier Phase 2 Drilling Program



## DIAMOND DRILLING PROGRAM

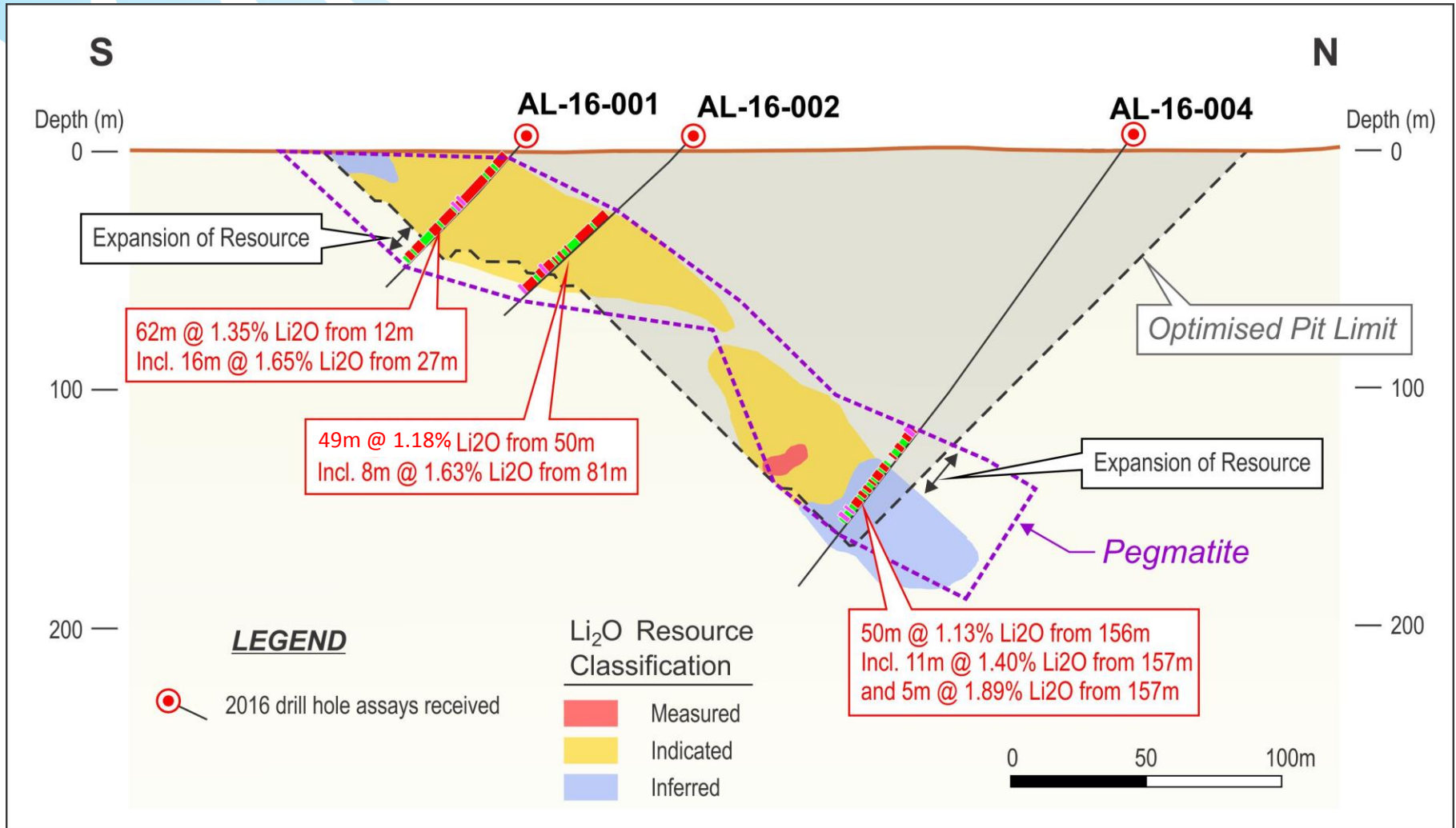
**3,500** metres in early 2017

### Drilling Program Objectives

- ✓ Upgrading the Mineral Resources categories
- ✓ Drilling the new pegmatite
- ✓ Convert mineral resources to reserves
- ✓ Exploring for extensions to the mineralisation
- ✓ Collecting geotechnical data for Feasibility Studies
- ✓ Metallurgical testing



# Simple Open Cut Mining Operation

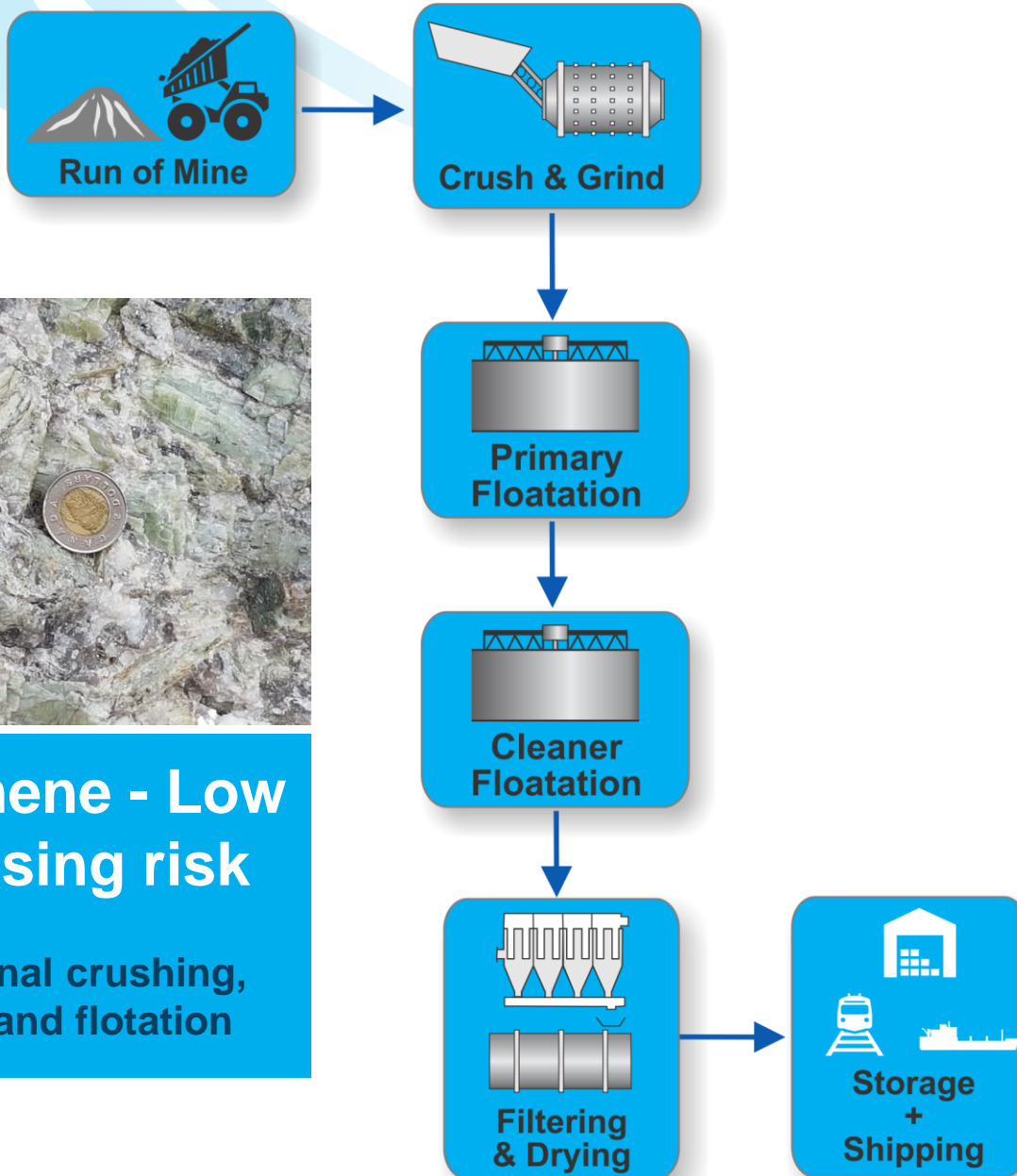


**Low Mining Dilution**

**Truck and Shovel Operation**

**Low Waste to Ore Ratio**

# Authier Metallurgy – Conventional Processing



**Spodumene - Low processing risk**

conventional crushing, grinding and flotation

**Flowsheet Design**

**80% recovery**

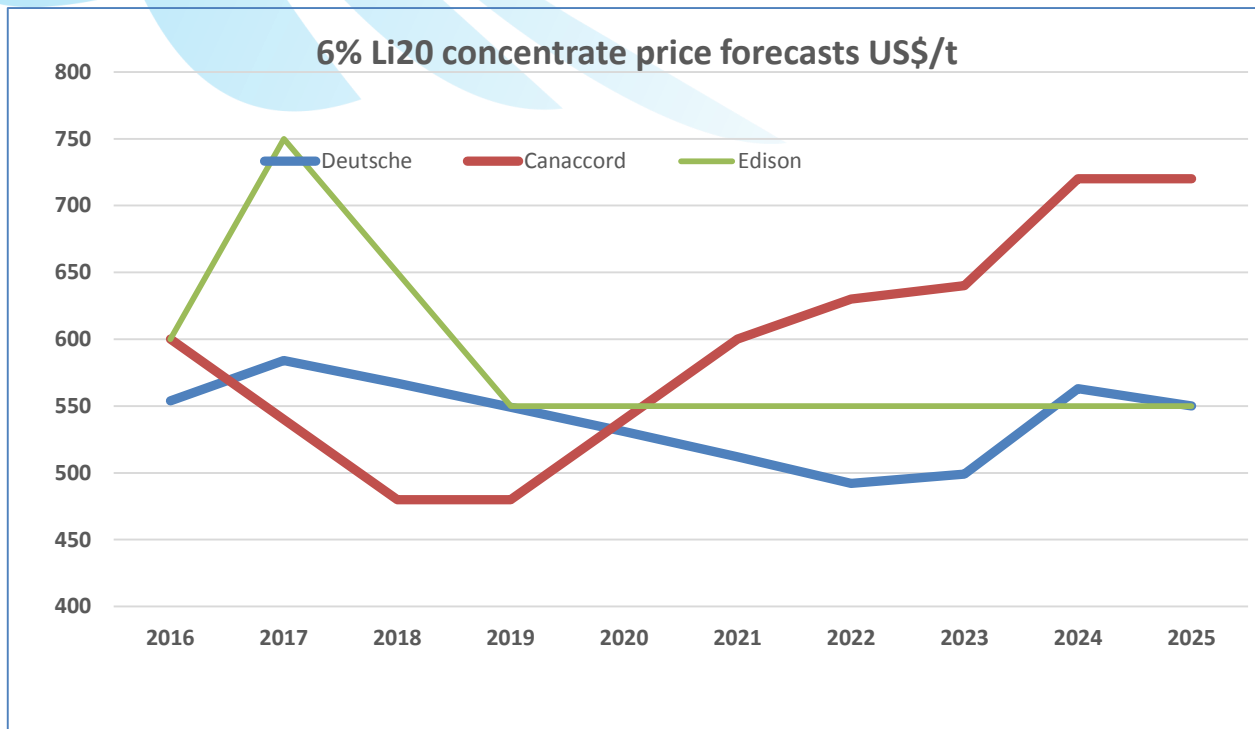
5-6% Li<sub>2</sub>O concentrate

**Optimisation Options**

Mica flotation

Downstream processing into intermediate products

# Authier Pre-Feasibility Study in Progress



**US\$600/t**

Current price for spodumene concentrate

**C\$500/t** Price used in 2013 PEA

**0.76**

Spot C\$/US\$ FX rate

**C\$790/t**

Current implied price for spodumene concentrate

## Authier Deposit Advantages



Extensively Drilled



Well Studied



Open Pit



Simple Process



Good Infrastructure

=



**Low Cost**

# Studying Value Adding Opportunities

## Lower-value Concentrates



Sell **lower-value concentrates** to battery converters in Canada or China

Concentrates currently selling at **US\$600/t**

## Benefits from value-add concentrates

7t of concentrates needed for 1t of lithium hydroxide

Optimises transport costs

Hydroxide key feed-stock to new revolution lithium-ion batteries

Low technology risk

Significant price premium paid for hydroxide products

## Value-Added Lithium



Sell **value-added lithium** products to battery manufacturers across the world

Lithium hydroxide sells for **>US\$20,000/t**

## Quebec location has considerable advantages

Leverages low-cost energy, workforce, and transport infrastructure

Plant could be positioned close to Authier

Close to the US Markets

# Authier Development Timetable



- ✓ Phase 1 definition drilling
- ✓ Resource upgrade
- ✓ Metallurgy program
- ✓ Pre-Feasibility Study
- ✓ Phase 2 drilling (early 2017)
- ✓ Definitive Feasibility Study (2017)
- ✓ Off-take and financing
- ✓ Permitting
- ✓ Construction and operation

A man wearing a wide-brimmed hat, a light-colored long-sleeved shirt, and dark trousers stands in a field of tall grass. He has a green backpack and is holding a small object in his right hand. The background shows a vast landscape with rolling hills and a clear blue sky. A bird is visible in the sky on the right side.

Simon Attwell – Exploration Manager  
with 29-years experience including  
exploring for lithium and tantalum

**Sayona's Other Projects**

# Western Australia Lithium Portfolio

## A globally significant region for production of Lithium



Low-cost entry with

# 1,116 km<sup>2</sup>

tenement holding,  
including granted tenure

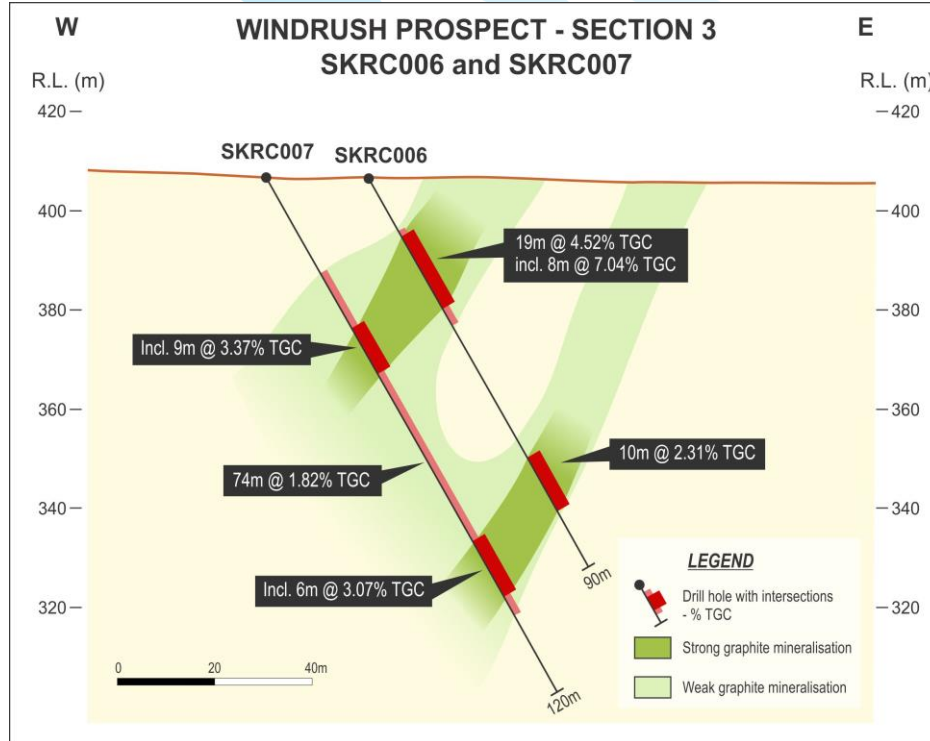
## Western Australia

a dominant global  
producer of Lithium from  
high-grade, hard-rock  
**PEGMATITES**



# East Kimberley Graphite Project

## Diamond drilling planned to test grades and quality



**3,000 m**  
drilling completed in  
Dec 2015

**6 km of 20 km**  
target zone drilled

Best assay  
**12%TGC**

**278km<sup>2</sup>**  
**tenement**  
**package**

Proven graphite  
province

Best Intercepts:  
**16m @ 5%TGC**  
**22m @ 3.4%TGC**

Open at depth and  
along strike

Coarse graphite  
observed

World-class  
Infrastructure

for access to  
**world**  
**markets**





**Corporate Overview**

# Corporate Summary

## TRADING EXCHANGE

**ASX: SYA/SYAO**

## SHARES/OPTIONS

**800** Million shares\*

**235** Million options\*  
3c exercise, Dec 2016 expiry

## SHAREHOLDERS

**30%** DIRECTORS

**62%** TOP 20

## CAPITALISATION

Price **2.6¢**  
As at 23 Nov 2016

Market cap **\$21M**

Cash **\$1.2M**  
As at 24 Oct 2016



# Strong Team With Track Record of Success

- ✓ Expertise and experience in exploration, development and mining
- ✓ Strong skill set in Lithium exploration and development

## Executive Team

Corey Nolan Chief Executive Officer

Simon Atwell Exploration Manager

## Directors

Dan O'Neill

Paul Crawford

Allan Buckler

James Brown

## Consultants

The logo for SGS, consisting of the letters 'SGS' in a bold, sans-serif font, with a vertical line to the right of the 'S' and a horizontal line below the letters.

# Disclaimer

## COMPETENT PERSON STATEMENTS

Gustavo Delendatti for Authier - The information in this report that relates to Exploration Results is based on information compiled by Dr Gustavo Delendatti, a member of the Australian Institute of Geoscientists. Dr Delendatti is an independent consultant, and has sufficient experience which is relevant to the style of mineralisation and type of deposit under consideration and to the activity which it is undertaking to qualify as a Competent Person as defined in the JORC Code (2012 Edition) of the "Australasian Code for Reporting of Exploration Results, Mineral Resources and Ore Reserves." Dr Delendatti was responsible for the design and conduct of this exploration drilling campaign, supervised the preparation of the technical information in this release and has relevant experience and competence of the subject matter. Dr Delendatti, as competent person for this announcement, has consented to the inclusion of the information in the form and context in which it appears herein.

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## Reference to Previous ASX Releases

This presentation refers to the following previous ASX releases:

- Authier JORC Resource Expanded , 23 November 2016
- Corkwood Drilling – Broad Zones of Mineralisation, 17 February 2016
- High grade lithium intersected over wide widths at Authier, 24 Oct, 2016
- Drilling intersects thick zone of mineralisation in the gap zone, 25 Oct 2016

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.

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The logo for SAYONA MINING LIMITED features the word "SAYONA" in a large, white, sans-serif font. To the right of the letters "A" and "N" is a stylized blue graphic consisting of three curved, overlapping shapes that resemble a flame or a mineral vein. Below "SAYONA" is the text "MINING LIMITED" in a smaller, white, sans-serif font. The entire logo is set against a dark teal background with a white hexagonal pattern.

**SAYONA**  
MINING LIMITED

