



*Sourcing the
raw materials
of the future*

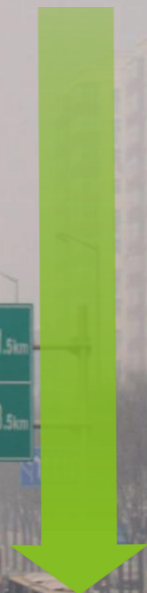
Beyond the Authier PFS -

**Expanding the Resource and
Enhancing the Project Economics**

March 2017
ASX: SYA



WE ARE LIVING IN A NEW ERA



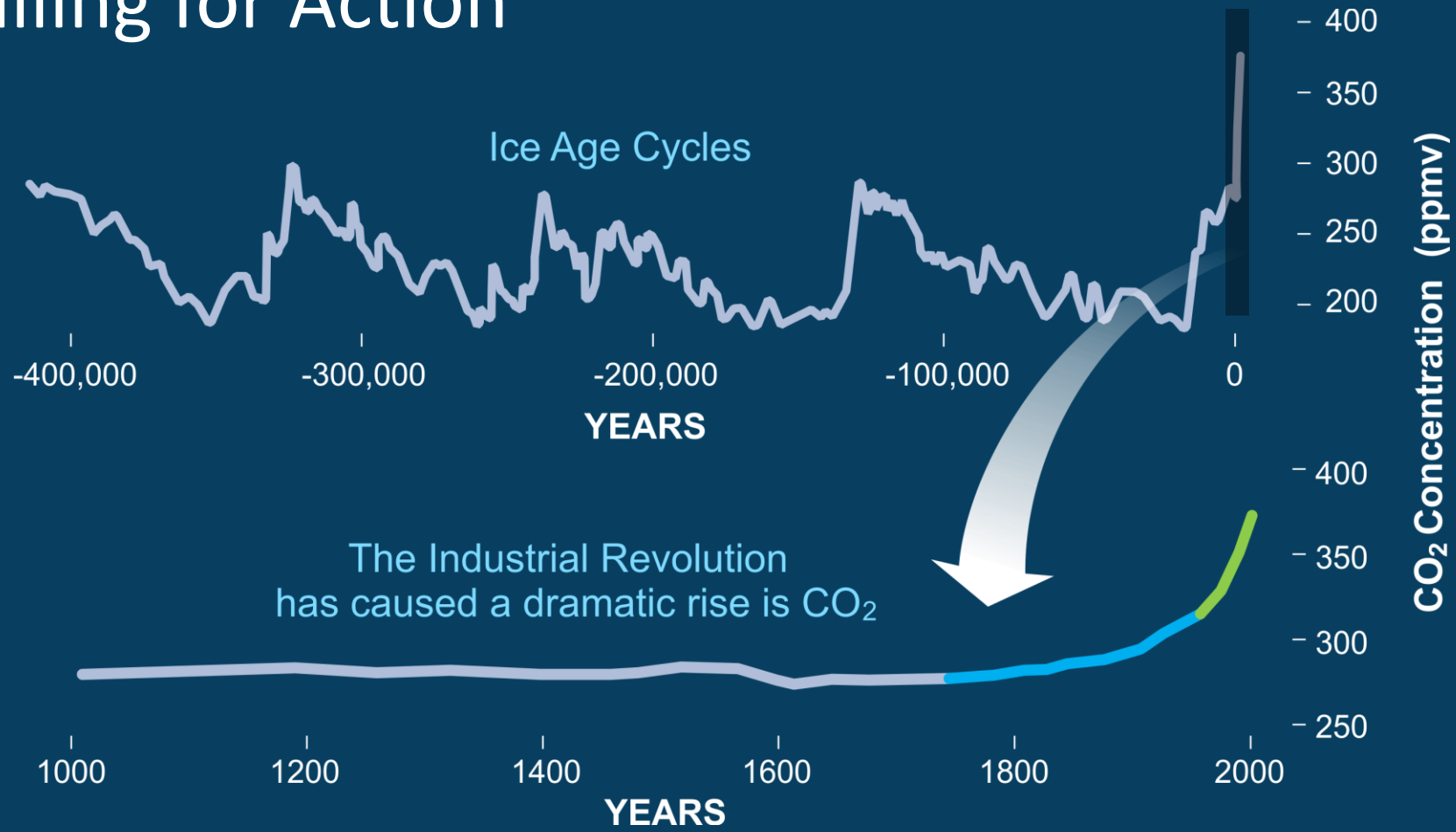
THE WORLD

IS SHIFTING

GREENER



Measureable Climate Change is Calling for Action





Rupert Murdoch

“Climate change poses clear, catastrophic threats. We may not agree on the extent, but we certainly can’t afford the risk of inaction.”



Lithium-ion Batteries...

A Critical Part of the Solution



Goldman
Sachs

“ What if
I Told You.....
Lithium is the
New Gasoline ”

Dec 2015

Lithium is now
considered a key,
strategic energy
metal in the clean
technology economy
that is being fuelled
by advances in
electric vehicles,
energy storage and
electronics



Energy Storage –

The economic value
of energy storage
over a 10-year
period in the US
could reach \$228
billion, 21% of the
\$1 trillion global
economic benefit

Disruptive Innovations II,
2014

The
Economist

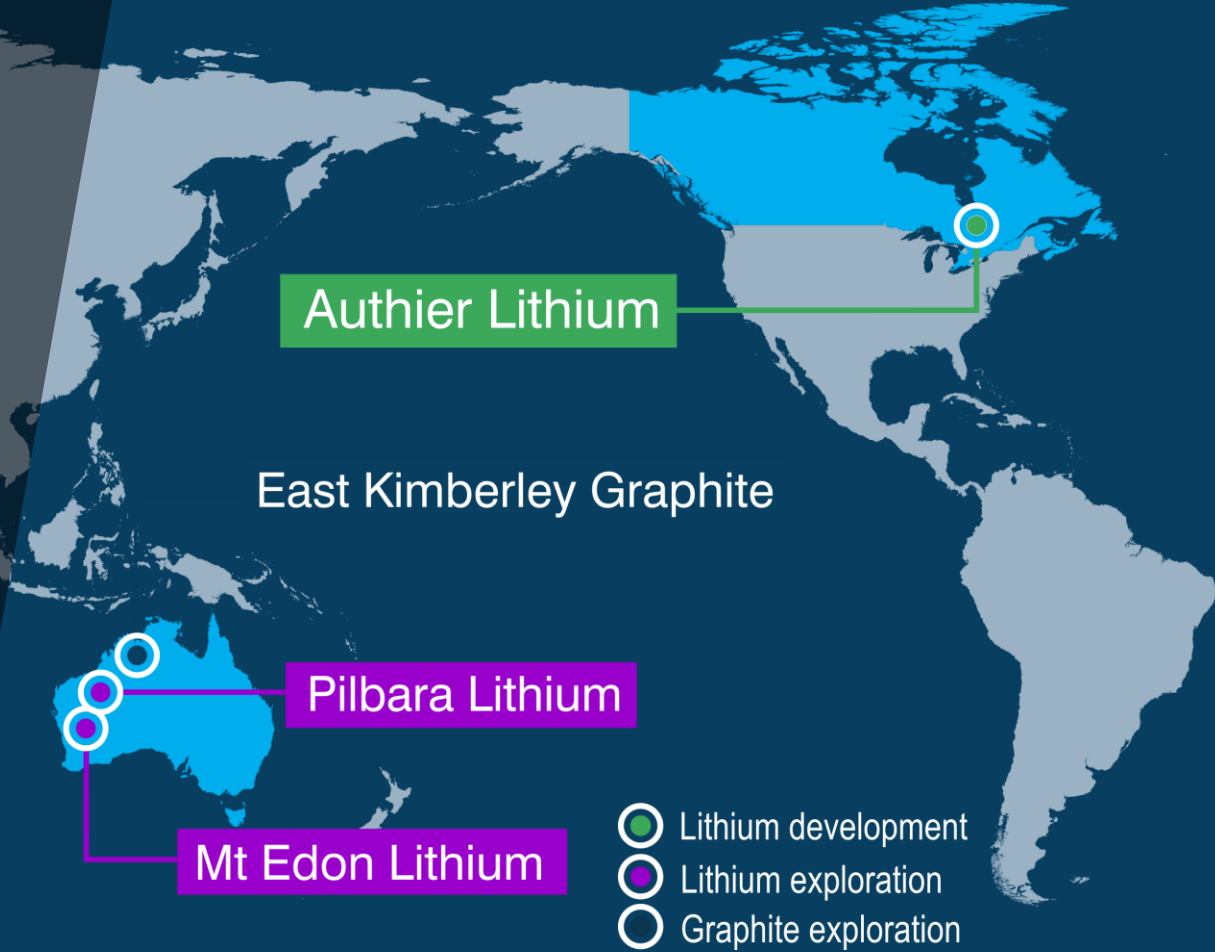
“ An
Increasingly
Precious
Metal ”

Jan 2016

Sayona Mining's
strategy is to
power the future

by sourcing and
developing the
raw materials
essential for

**lithium-ion
battery
production**



Authier PFS Demonstrates Base Case Economics



Financial Outcomes

Pre-tax NPV C\$140m

Pre-tax IRR 39%

Capital Pay-back 2.2 years

Ave Annual EBITDA C\$31m

Key Assumptions

Start-up Capex C\$66m

Life-of-mine Capex C\$113m

Concentrate Price US\$515/t

Operating Costs C\$367/t

Ore Throughput 700,000 tpa

Concentrate Production 98,000 tpa

US\$/C\$ Exchange Rate 0.76

Life-of-mine Strip Ratio 6:1

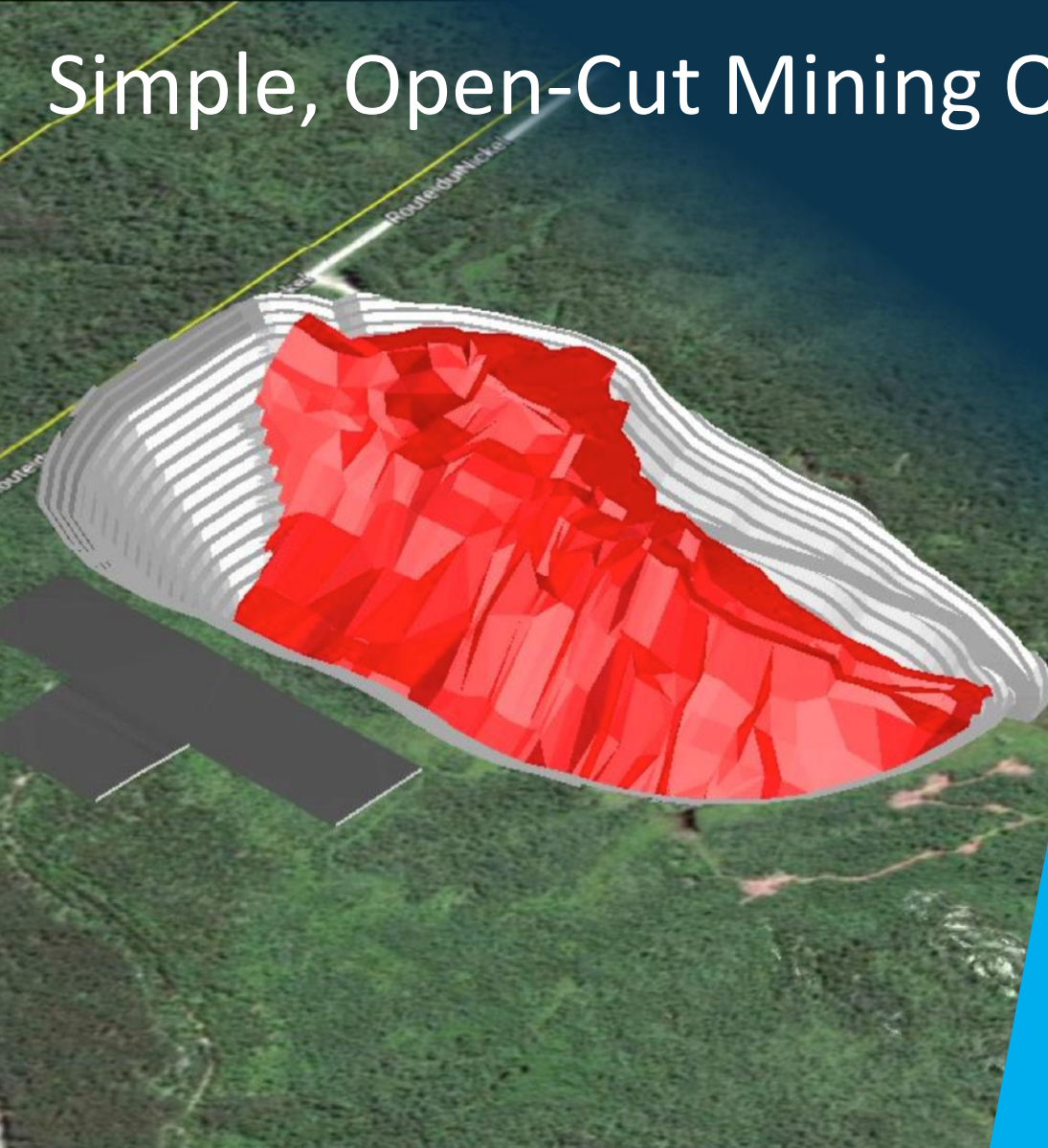
Maiden JORC Ore Reserve

	Tonnes (Mt)	Grades (Li2O)	Contained (Li2O)
	4.9	0.97%	47,821
	5.3	1.06%	55,904
TOTAL	10.2 Mt	1.02 %Li2O	102,725 Contained Li2O



The Ore Reserve 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). 0.45% Li₂O cut-off grade.

Simple, Open-Cut Mining Operation



Competitive Mining Costs -
\$2.90/tonne average LOM

Low Capex –
Mining Fleet **Leased**

Simple Mining Method –
Truck and shovel operation

Conservative geotechnical
assumptions –
45° pit slope on the hanging wall

Life-of-Mine –
13 years

Large, thick tabular body –
LOM waste to ore ratio **6:1**

Conventional Process Flow-Sheet



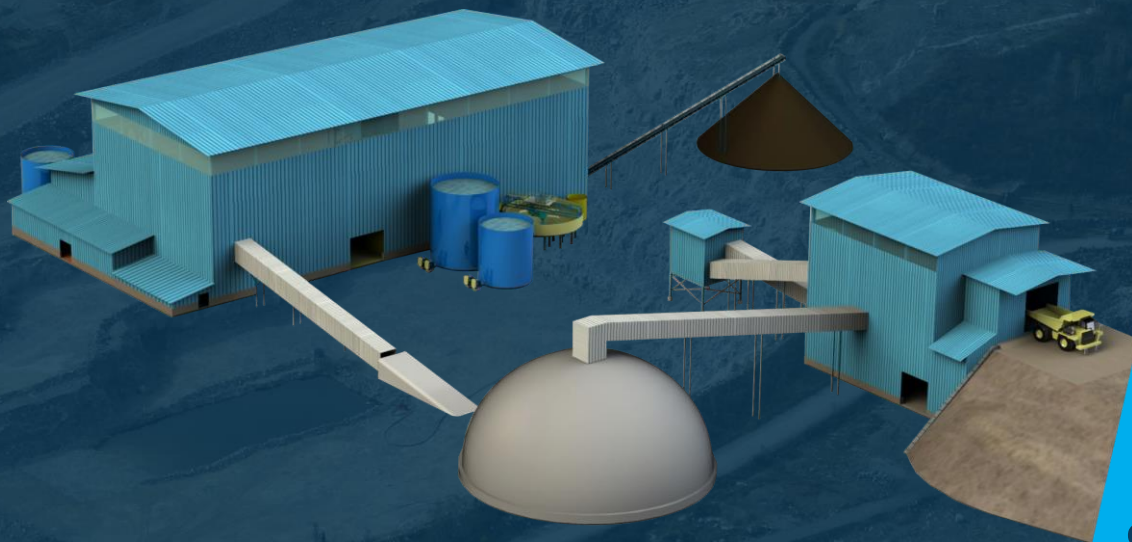
Conventional process
flow-sheet – crush, grind
and flotation

Ave Cash Operating Costs –
\$20 / tonne life-of-mine

80% recovery to a
5.75% Li₂O concentrate

700,000 tpa processing capacity
to produce
98 Kt/yr Li₂O concentrate

Mica flotation incorporated into the
process circuit



World-class Infrastructure



5km

Low cost **hydro power**
and **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**

Gas < **\$3 /GJ**

PFS Pricing Assumptions Conservative

DEMAND



Renewable **>30%**
grid storage **CAGR**

Transportation **20-30%**
electric and **CAGR**
hybrid vehicles

Consumer **8-10%**
electronics **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

Authier Project Highlights



Extensively drilled and well **understood** geology



Pre-Feasibility Study **price assumptions well below** current traded market price for concentrates



Simple, truck and shovel mining operation



Proven process for recovery of spodumene into a saleable concentrate – **no technology risk**



World-class infrastructure and Quebec Government support



Low capital hurdle and **attractive operating costs**

Beyond the PFS – Improving the Returns



Work Program

Objective

Phase II drilling - 4,000m

Resource and Ore Reserve expansion

Geotechnical Study

Steeper pit walls – lower waste movement

Dilution Study

Increase the Ore Reserve grade

Metallurgical Testing

Improving recoveries and costs

Hydrometallurgical Testing

Potential to produce high-value Li_2O products

Off-take Agreements

Optimise project returns

Authier Phase 2 Drilling Program

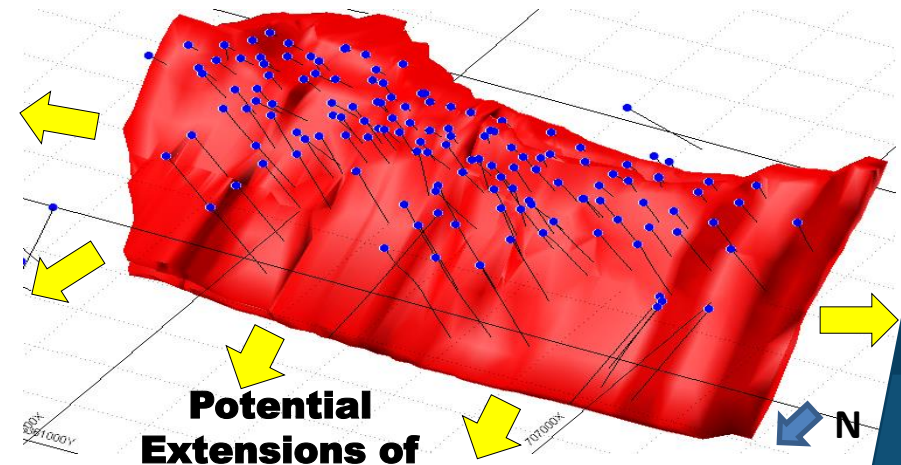


DIAMOND DRILLING PROGRAM

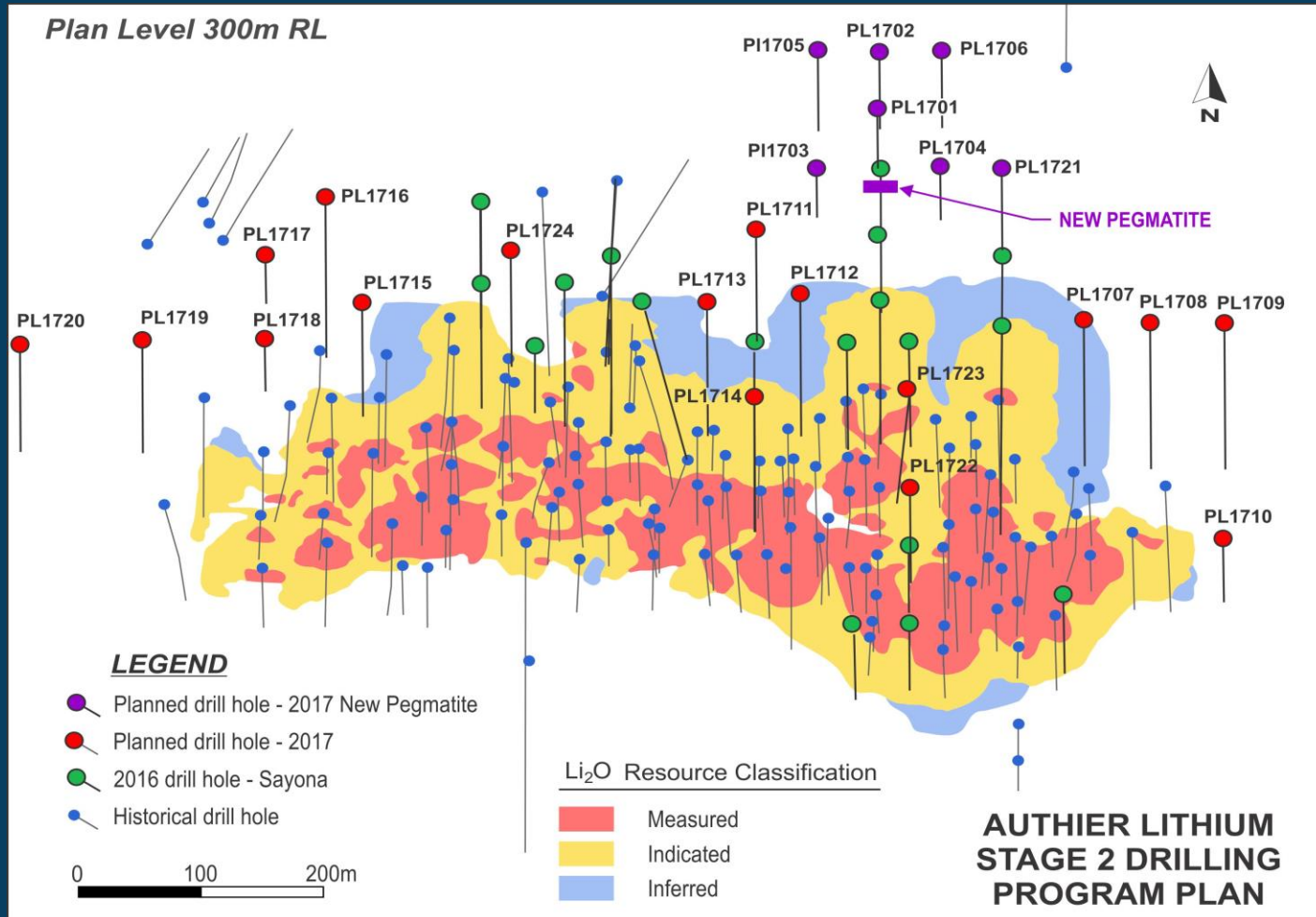
4,000 metres

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



Authier Phase 2 Drilling Program Program



Assessing Value Adding Opportunities



Lower-value Concentrates



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

Concentrate sell at **>US\$750/t**

Benefits from value-adding concentrates

Reduces transport costs

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

Low processing technology risk

Significant price premium paid for value-added 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 advantages

Leverages low-cost energy

Skilled low-cost, workforce

Close to the US battery markets

Favourable taxation regime

Acid for processing readily available

Authier Development Timetable



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

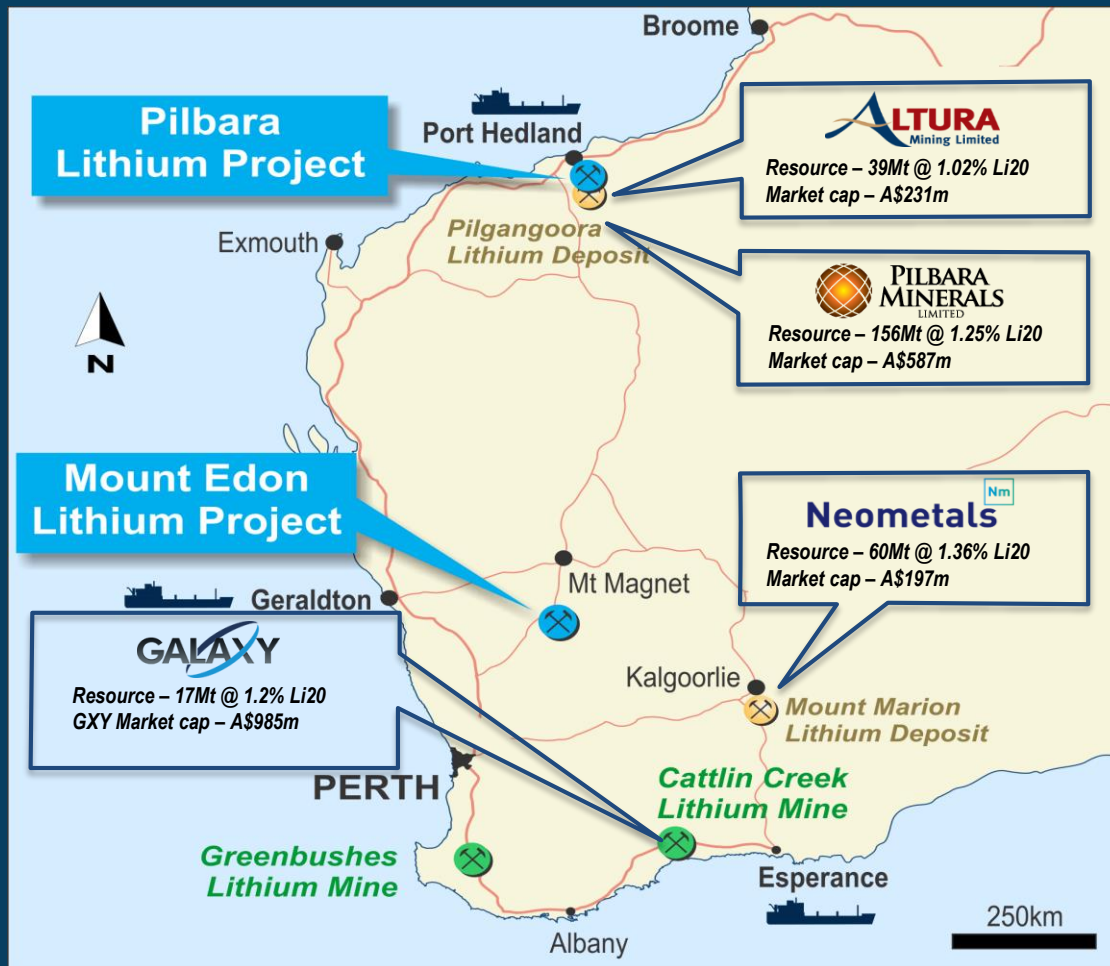
A man wearing a hat and a backpack stands in a desert landscape with red hills in the background. A bird is flying in the sky.

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

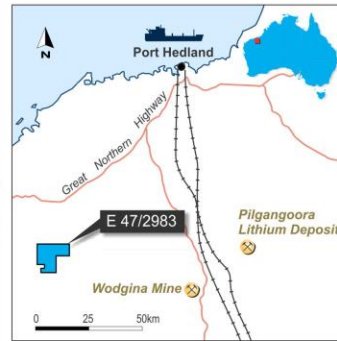
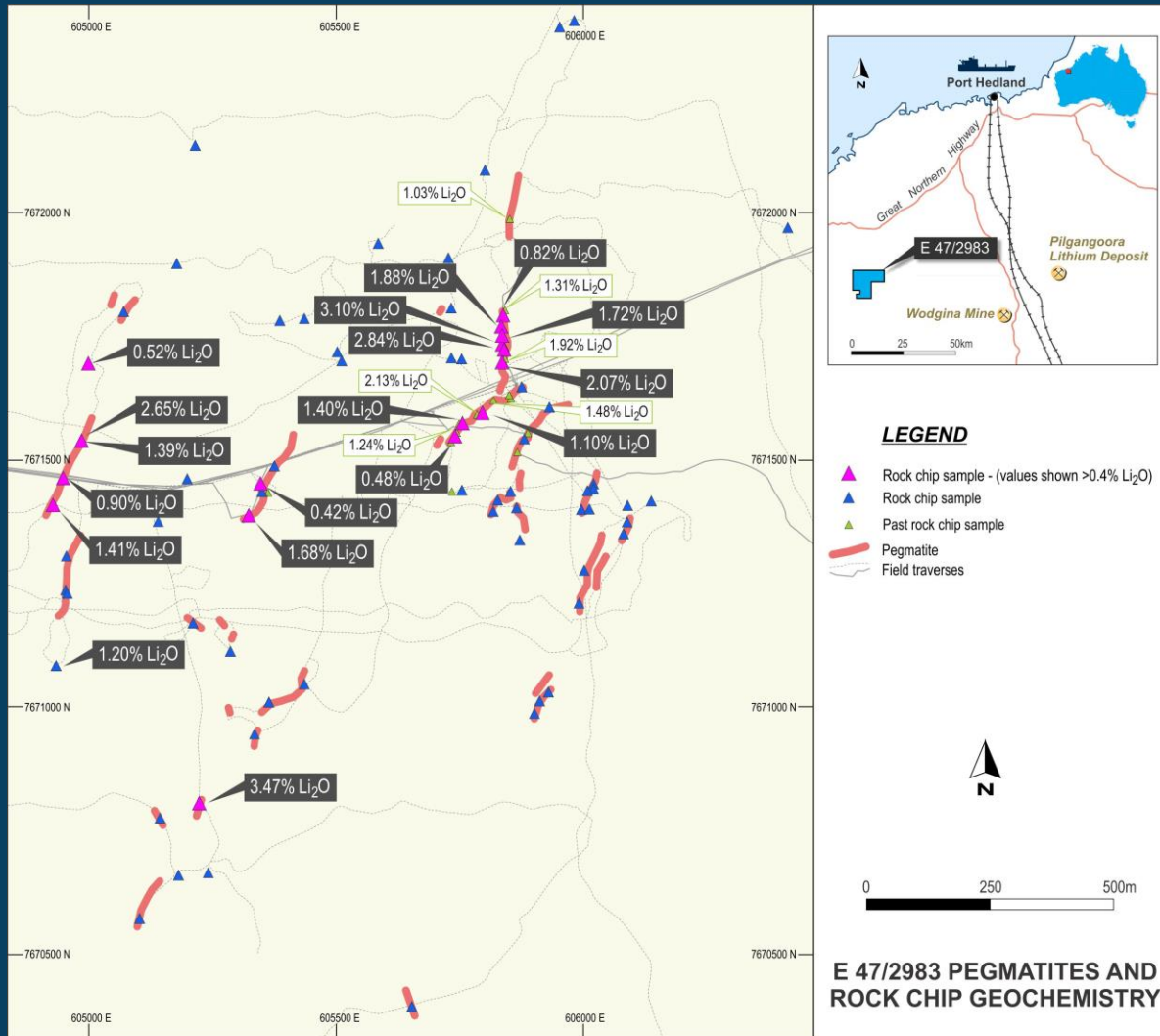
1,997 km²

tenement holding,
including granted tenure

**Western
Australia**

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

Great Sandy Joint Venture – Mallina Project



140 km²
tenement holding

High-grade rock chips up to

3.47% Li₂O



Sayona Value Proposition



Developing an advanced, de-risked project. Pre-Feasibility Study completed. Optimisation program in progress



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** – low capital hurdle



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



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

Hard Rock Lithium Peer Universe

- EV/Resource value is low compared to near-term developer peers
- EV is more indicative of lithium explorers

SAYONA

\$169

FRONTIER
LITHIUM

\$378

PILBARA
MINERALS
LIMITED

\$421

CriticalElements
Corporation

\$452

LTURA
Mining Limited

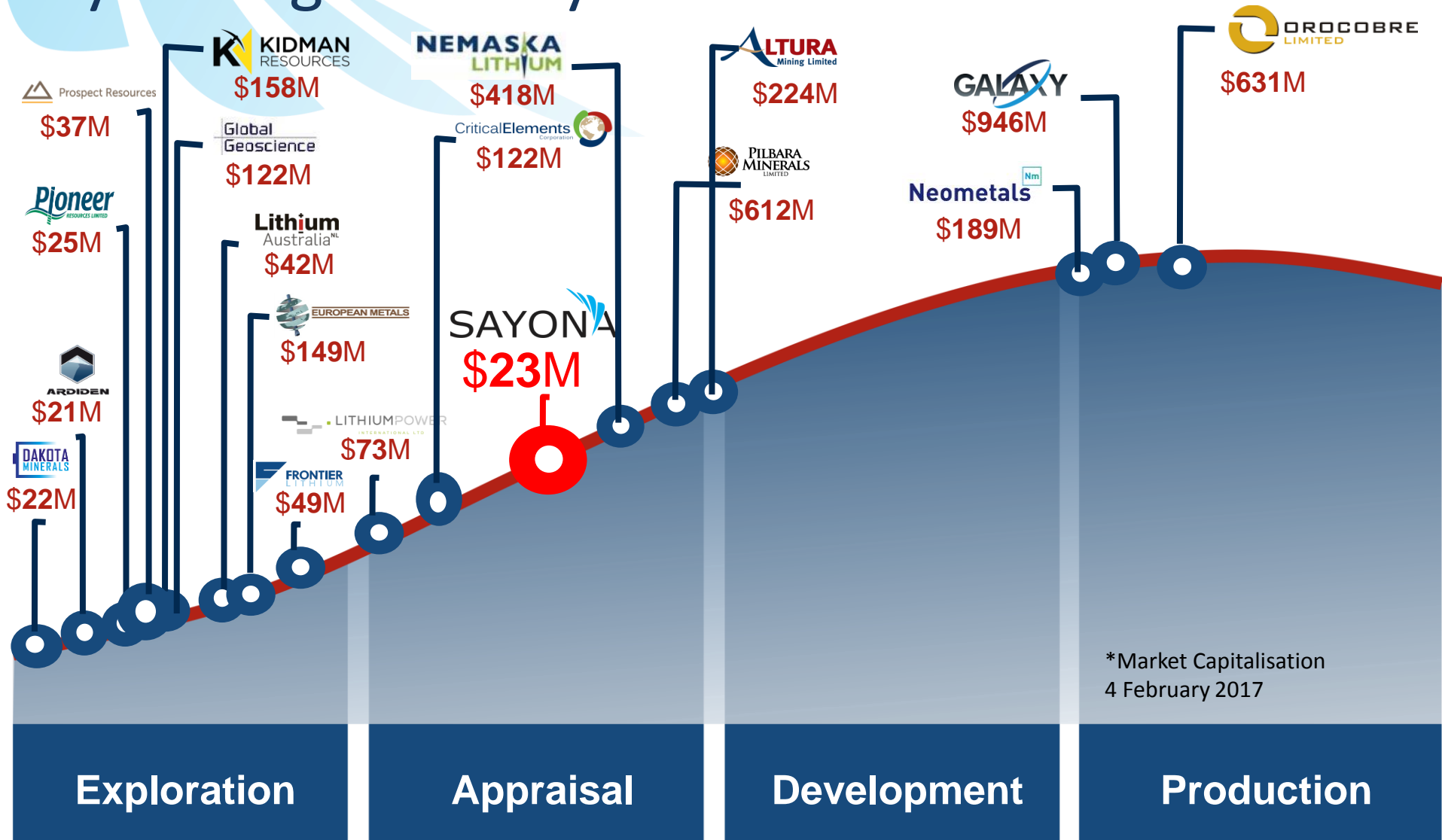
\$605

NEMASKA
LITHIUM

\$803

Enterprise Value Per tonne of Measured and Indicated Resources (\$A million)

Sayona Significantly Undervalued*



Corporate Summary



TRADING EXCHANGE

ASX: **SYA**

SHARES

875 Million shares

SHAREHOLDERS

30% DIRECTORS

62% TOP 20

CAPITALISATION

Price

As at 3 MAR 2017

2.6¢

Market cap

\$23M

Cash

As at FEB 2017

\$1.3M



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

SGS



Appendix



JORC Mineral Resource

	Tonnes (Mt)	Grades (Li ₂ O)	Contained (Li ₂ O)
	4.72	1.03%	48,519
	7.13	1.10%	78,280
	1.90	1.05%	19,901
TOTAL	13.74 Mt	1.06 %Li ₂ O	146,700 Contained Li ₂ O

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) at a 0.5% Li₂O cut-off grade.



Quebec, Canada – A Major Mining Centre



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

Canada's **largest** iron and zinc producer, and 2nd largest gold producer

25 mines in production

\$8.7bn 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

Strong Government Support –
Investment Partners in Mining



Disclaimer



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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
- Authier Maiden JORC Ore Reserve, 17 February 2017
- Authier PFS, 17 February 2017

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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