

Sourcing the raw materials of the future

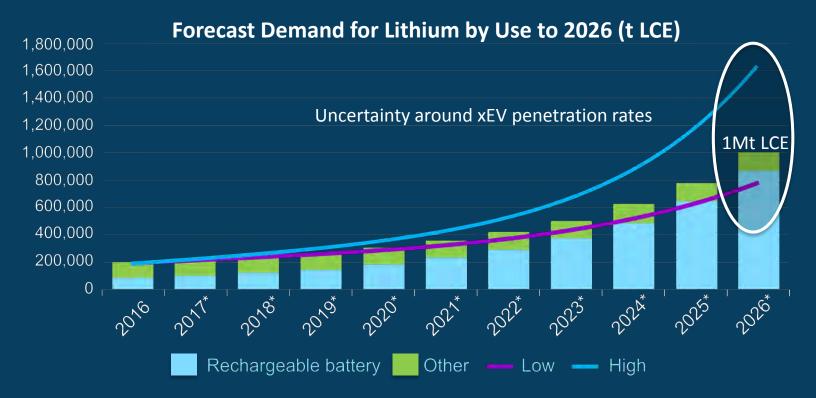
Investor Presentation

Developing a low-cost, advanced lithium project in Quebec, Canada

JULY 2017 ASX: SYA

Major New Investment Required in Lithium





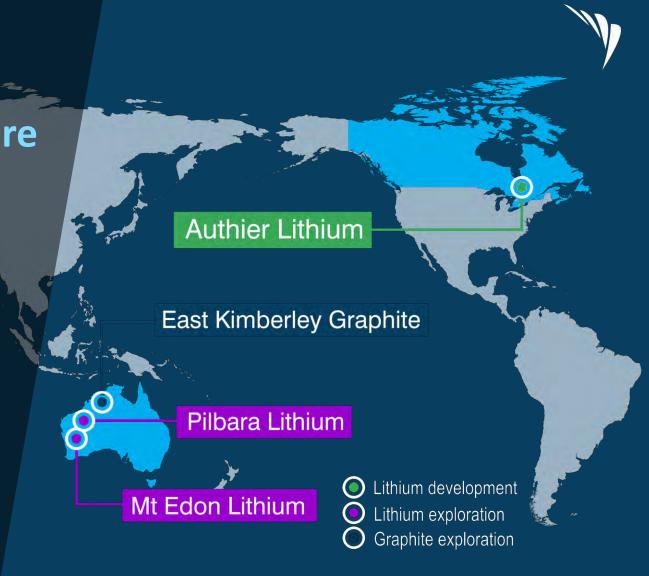
"The impact of automotive electrification on lithium: 1TWh and 1Mt LCE in 10 years"

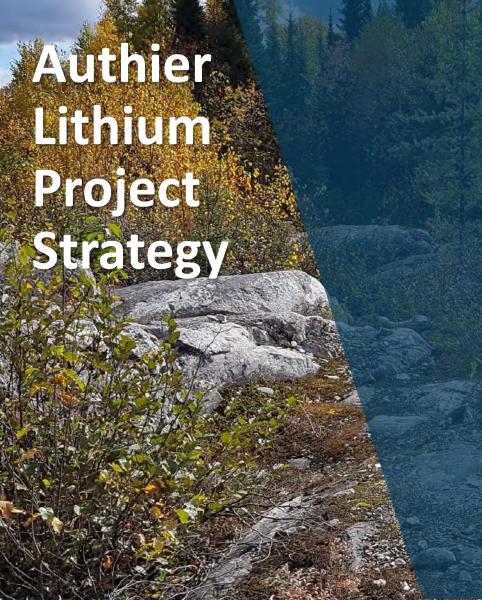
Sayona Mining's strategy is to

power the future

by sourcing and developing the raw materials essential for

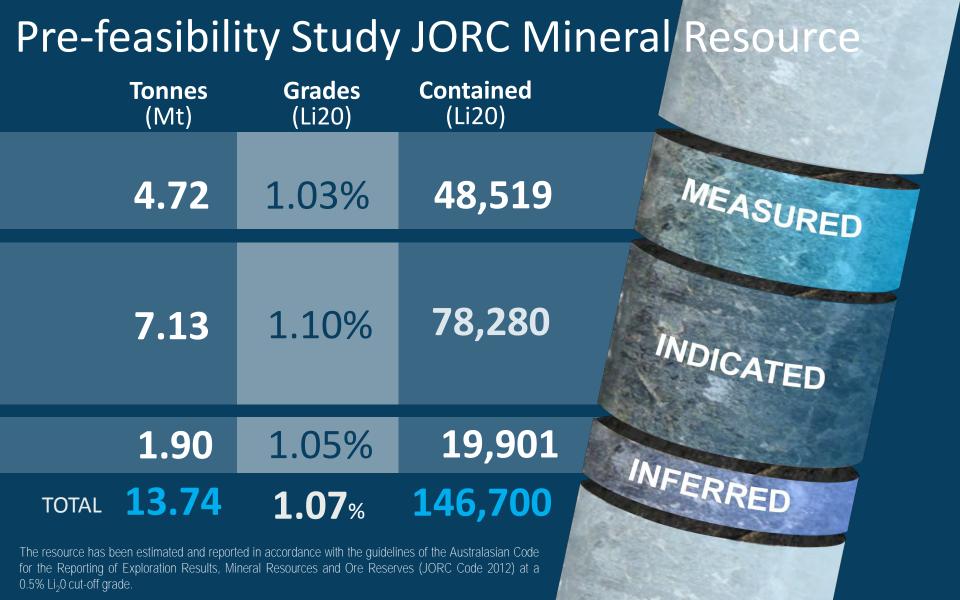
lithium-ion battery production





"With their Authier project, Sayona has a quality, low cost and near term development opportunity in a world-class mining destination, and is in an ideal position to take advantage of the growing demand for lithium due largely to the burgeoning battery sector"

Mark Gordon, Senior Analyst, IIR, July 2017



Pre-Feasibility Study Outcomes



Start-up capex of C\$66 million and opex of US\$280/t*

Pre-Tax NPV8	C\$140m
Pre-Tax IRR	39%
Capital Payback	2.2 years
Ave Annual EBITDA	C\$31m
Ave Operating margin	*US\$235/t
Price forecast*	US\$515/t

^{*} US\$/t per tonne of concentrate

Maiden JORC Ore Reserve

Tonnes (Mt) Grades (Li20) Contained (Li20)

4.9

0.97%

47,821

PROVEN

PROBABLE

5.3

1.06%

55,904

TOTAL

10.2

1.02%

102,725

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% Li₂0 cut-off grade.

PFS Pricing Conservative – US\$515/t conc.











Renewable grid storage

>30%

CAGR

20-30%

Transportation

CAGR

electric and hybrid vehicles

Consumer

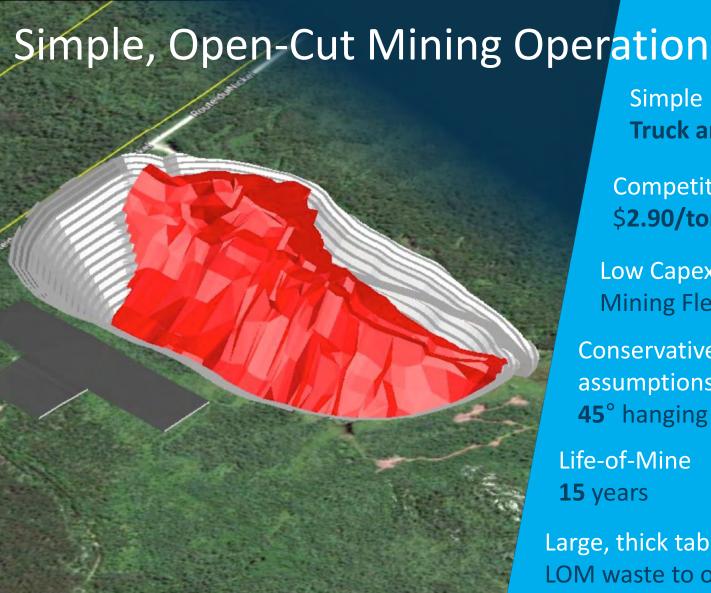
electronics

8-10%

CAGR

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

Current pricing
between US\$750US\$905/t in 2017
and US\$880/t for
2018



Simple Mining Method Truck and shovel operation

Competitive Mining Costs \$2.90/tonne average LOM

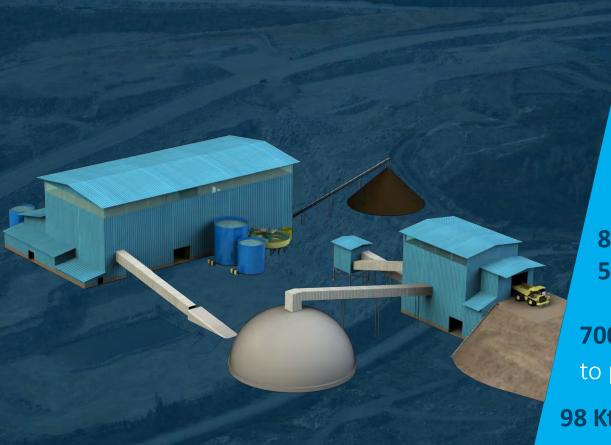
Low Capex Mining Fleet Leased

Conservative geotechnical assumptions – 45° hanging wall pit slope

Life-of-Mine **15** years

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

Conventional Process Flow-Sheet



Conventional process flow-sheet Crush, grind and flotation

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

Dry Tailings simplifies approvals

World-Class Infrastructure



5km st hydro powe

Low cost hydro power and gas

5km Sealed **road access**

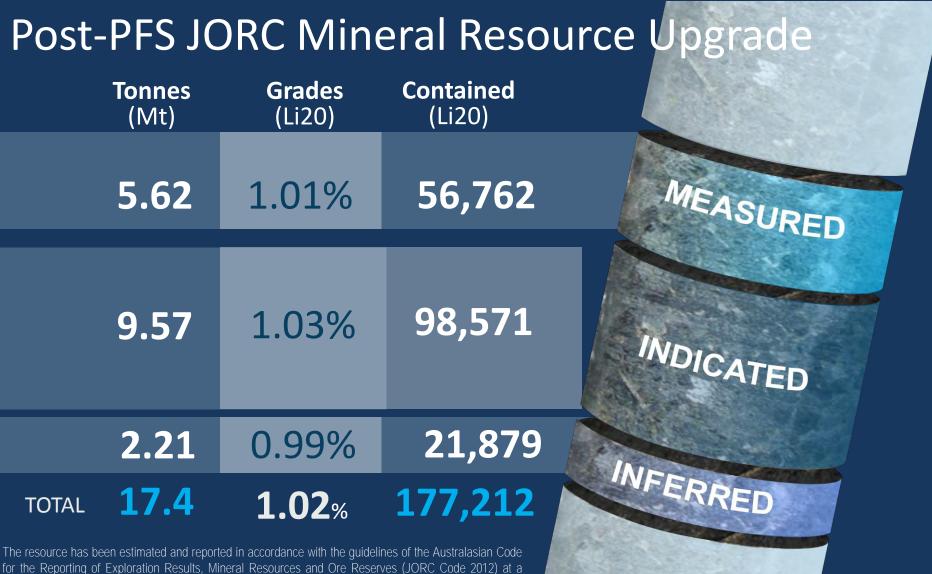
20km **Rail** access to export port

Experienced local mining workforce

Major new hub of lithium carbonate production

Electricity 5¢ kWh

Gas < \$3 /GJ



0.45% Li₂0 cut-off grade.

Post PFS Value Enhancement Programs



Increased Ore Reserve following Mineral Resource upgrade

Metallurgical optimisation

Improved geotechnical outcomes



Downstream Concept Study Underway

Current Strategy







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

Concentrate sell at >US\$750/t

Why go downstream?

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 Strategy







Sell value-added lithium products to battery manufacturers across the world Lithium hydroxide sells for >US\$20,000/t

Quebec location advantages

Low-cost energy

Skilled low-cost, workforce

Close to the US battery markets

Favourable taxation regime

Acid for processing readily available

Development Timetable



and the	2017		2018			2019				2020		
Milestones	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2
Phase 2 Metallurgy												
PFS Update												
Environmental												
Mining lease												
Pilot Metallurgy												
Definitive Feasibility Study												
Engineering & Design												
Off-take												
Finance												
Construction												
Operation												
Downstream Concept												
Downstream Testing												
Downstream PFS												

Corporate Summary

TRADING EXCHANGE

ASX: **SYA**

SHARES

963 million shares

SHAREHOLDERS

26% Directors

56% Top 20

RESEARCH COVERAGE







CAPITALISATION

Price

1.7¢

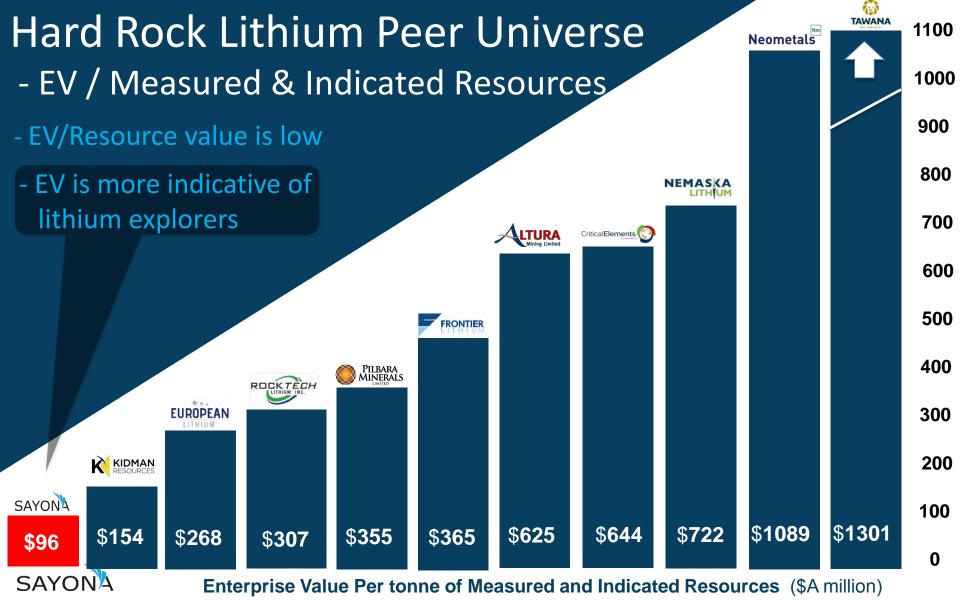
Market cap

\$**16**M

Cash
As at 25 MAY 2017

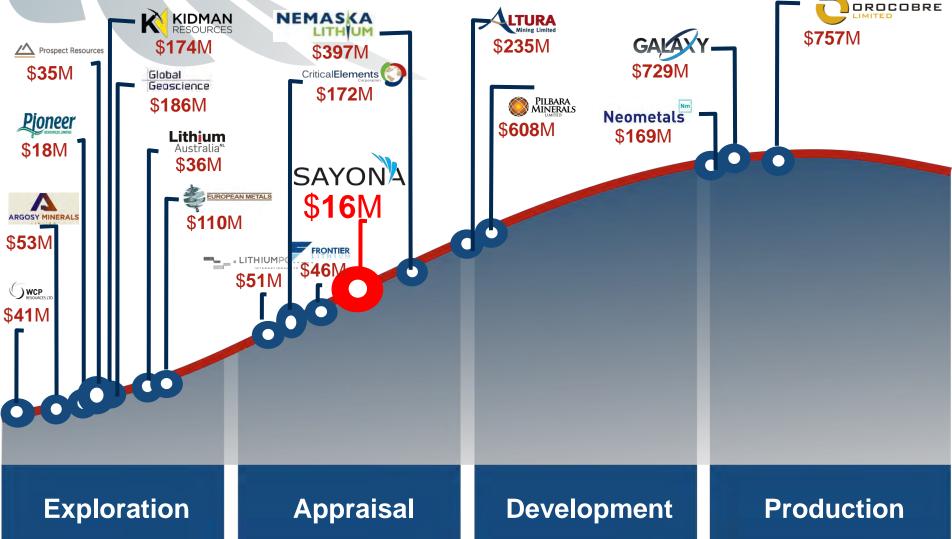
\$1.5M







Sayona Significantly Undervalued NEMASKA STAM STATE S



Directors with Strong Track Record of Success



Dan O'Neill

- Geologist with 35 years experience in technical and corporate roles
- Founding director of Orocobre Ltd. Director of Altura Mining

Allan Buckler

- 40 years experience building mining operations in Australia and Indonesia. Former Director and Chief Operations Officer for New Hope Corporation
- Director of Altura Mining

Paul Crawford

- CPA with 35 years public company experience
- Previously Company Secretary of companies including, Orocobre Ltd (founding director), Elementos and ActivEx

James Brown

- 35 years experience including, 22 years with New Hope Corporation. Extensive mine development & operational experience
 - Managing Director of Altura Mining \$220m market cap.

Experienced Executive Team





Corey Nolan
Chief Executive Officer

- 23 years experience in exploration, development, operations and corporate finance
- Started and managed a number of resource companies with projects in a range of commodities and countries



Jonathan Gagne
Canadian Country Manager

- Mining Engineer with MBA and more than 10 years experience in operations and mine planning
- Joined from Glencore Zinc's open-cut mine planning division



Simon Atwell
WA Exploration Manager

- Geologist with 29 years mineral exploration experience
- Director of Australian Tantalum, which owned the Pilgangoora leases and was subsequently acquired by Altura Mining

Sayona Value Proposition





Authier is an advanced, de-risked project. Pre-Feasibility Study and Ore Reserve completed



Executing a plan to get into production and generate cash flow – low capital hurdle & competitive operating costs



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



Base case pre-tax NPV of A\$140 million and low enterprise value per tonne of resources compared to industry peers



Board and management team have track record of delivering projects

The Final Word



"For investors who are just catching on to the lithium battery revolution, the best way to play the game is to look past the traditional lithium producers. In this boom scenario, investors will be looking at companies with the lowest market caps, solid management and highly prospective deposits".

USA Today – Buffet, Musk to spark lithium boom

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 and JORC Resource Update, 14 June 2017
- Authier PFS, 17 February 2017

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