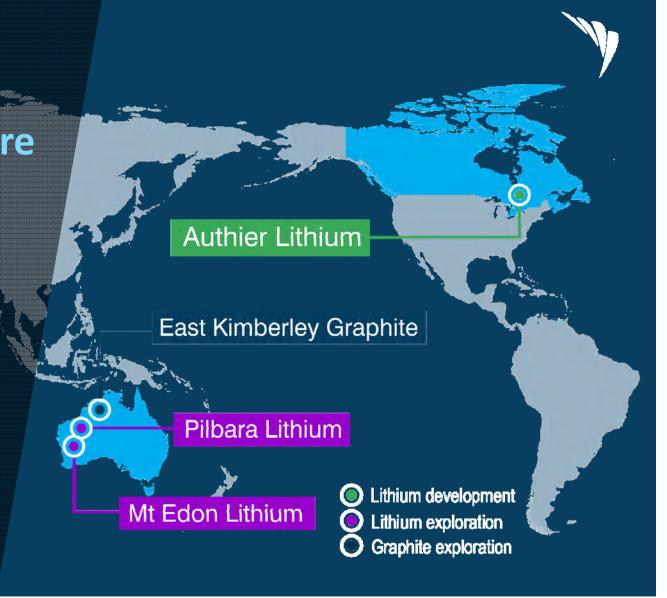


Sayona Mining's strategy is to

# power the future

by sourcing and developing the raw materials essential for

lithium-ion battery production



## 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 compared to industry peers



Board and management team have track record of delivering projects

## **Corporate Summary**

#### TRADING EXCHANGE

ASX: **SYA** 

#### **SHARES**

963 million shares

#### **SHAREHOLDERS**

30% Directors

**62%** Top 20

#### CAPITALISATION

Price As at 25 MAY 2017

1.7¢

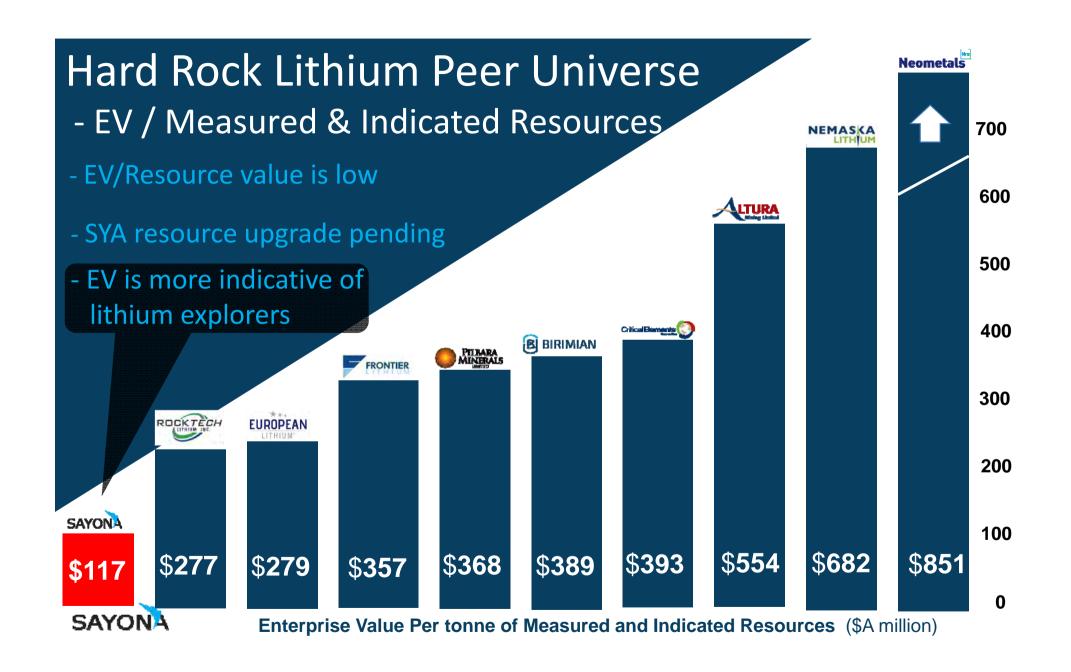
Market cap

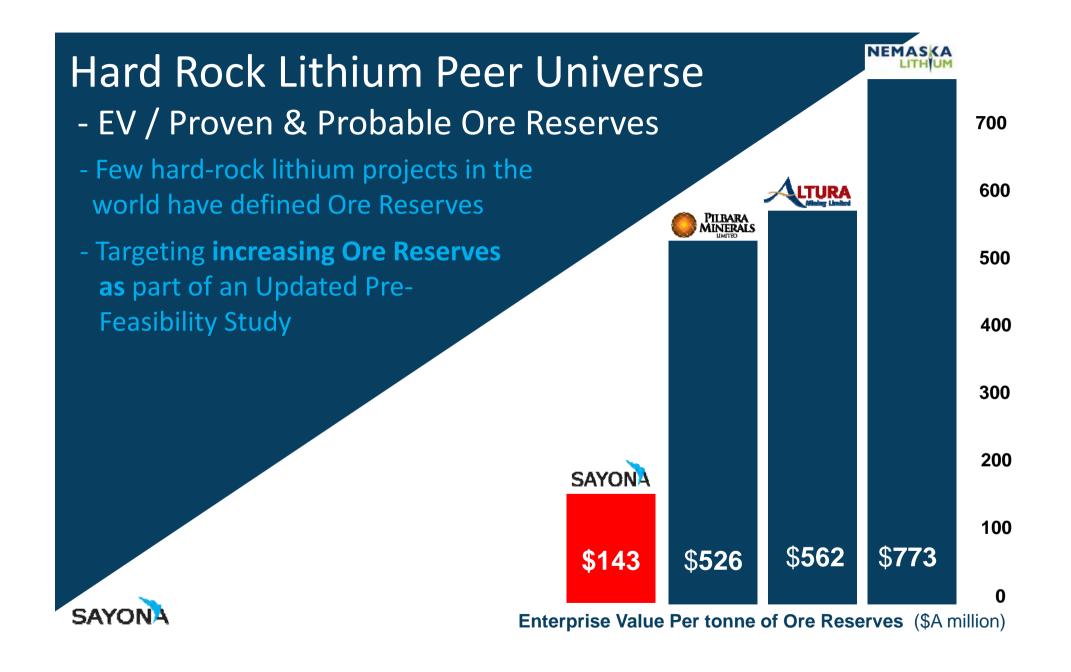
\$**16**M

Cash

\$1.5M







## Sayona Significantly Undervalued



**Exploration** 

**Appraisal** 

**Development** 

**Production** 

## 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



## Authier Project Highlights





Simple geology, extensively drilled - 22,000 metres



Low-cost, truck and shovel mining operation



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



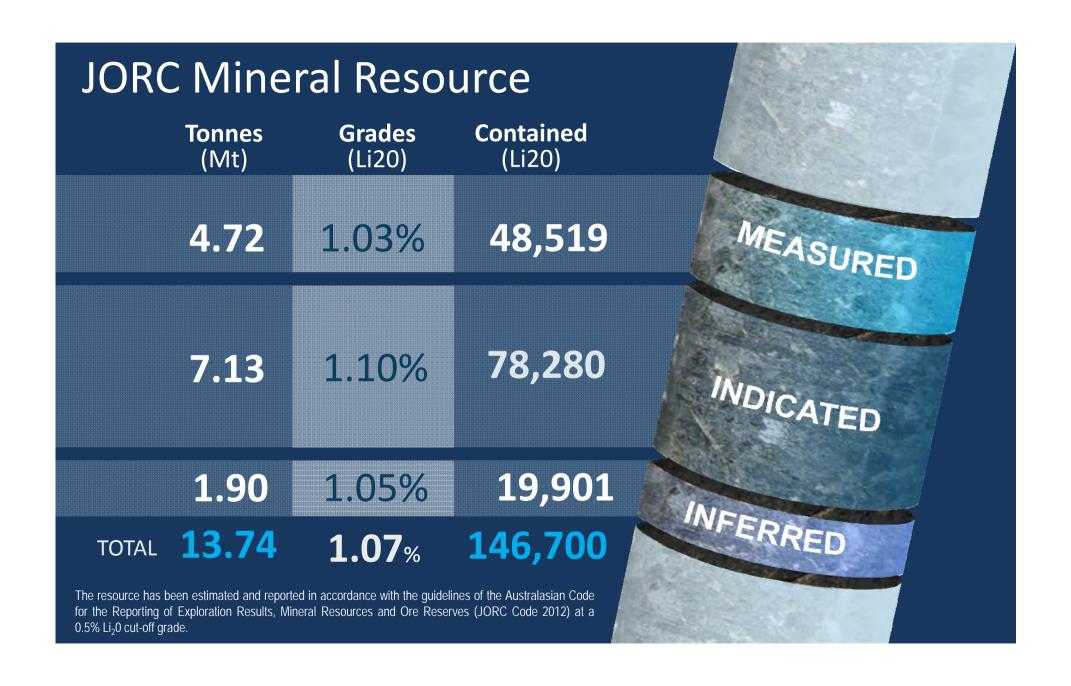
World-class development infrastructure



High valuation based on a lithium price - US\$515/t - well below current traded market price for concentrates



Low capital hurdle and competitive operating costs



## Pre-Feasibility Study Outcomes\*



#### **Financial Outcomes**

Pre-tax	MID)A	C\$14	0
PIE-Lax		UD14	-UIII

Pre-tax IRR 39%

Capital Pay-back 2.2 years

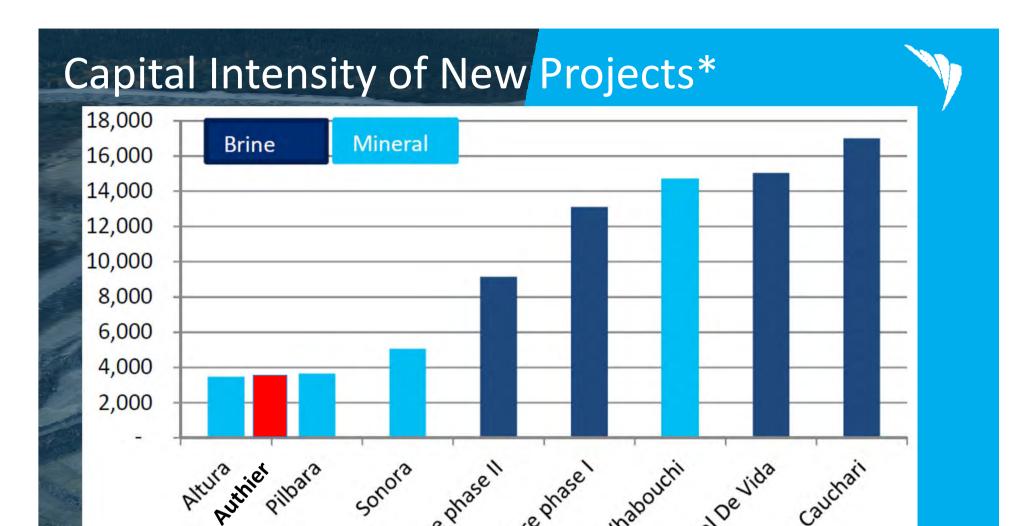
Ave Annual EBITDA C\$31m

\*Subsequent to the completion of the PFS, SYA drilled an additional 4,000 metres and commenced a number of optimisation programs aimed at enhancing the project value

#### **Key Assumptions**

Start-up <b>Capex</b>	C\$66m
Life-of-mine Capex	C\$113m
Concentrate <b>Price</b>	US\$515/t
Operating <b>Costs</b>	US\$280/t
Ore <b>Throughput</b>	700,000 tpa
Ore <b>Throughput</b> Concentrate <b>Production</b>	700,000 tpa 98,000 tpa





\*Source: Citibank.

# Beyond the PFS – Enhancing the Value



**Work Program** 

Phase 2 drilling

**Geotechnical** Study

**Dilution** Study

**Metallurgical** Testing

**Hydrometallurgical** Testing

**Off-take Agreements** 

**Objective** 

Resource and Ore Reserve expansion

Steeper pit walls – lower waste movement

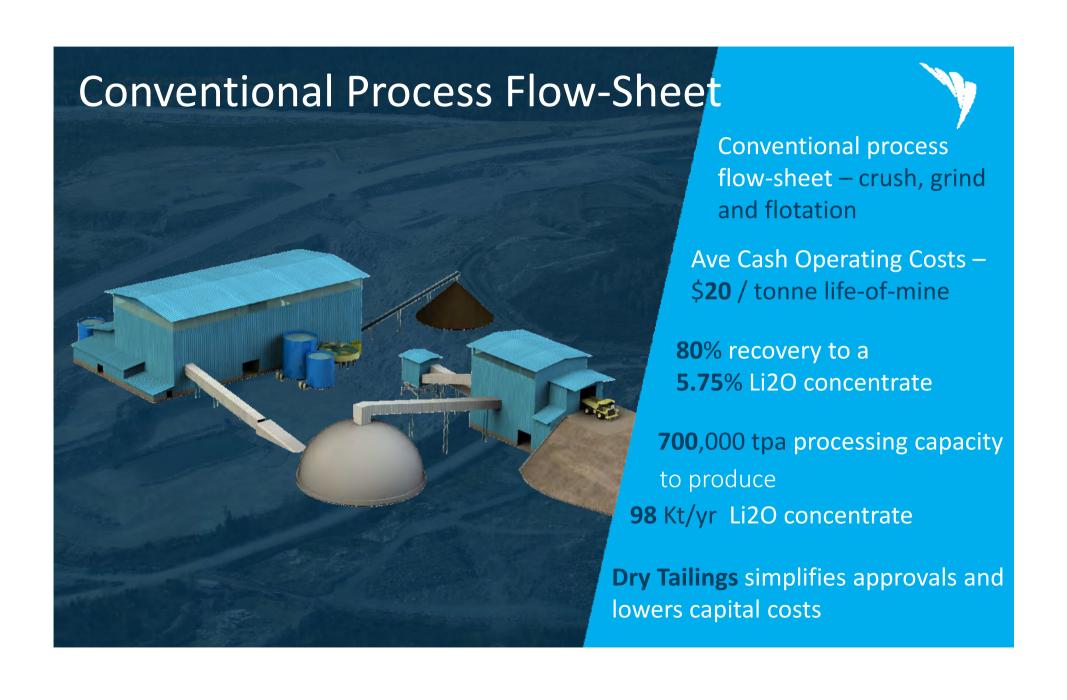
Increase the Ore Reserve grade

Improving recoveries and costs

Potential to produce high-value Li2O products

Underwrite the project development capital





## Targeting Further PFS Cost Reductions



- Authier operating costs US\$4,450/t LCE\*
- Optimisation program underway to improve costs
- Targeting improvements, including:
- **HIGHER** concentrate grades
- **HIGHER** ore reserve grades
- **HIGHER** processing recoveries
- **LOWER** processing costs
- LOWER stripping ratio

#### New Project Cost Curve



Source: Citibank. \*Assumes US\$2500/t for conversion of concentrate to LCF

#### World-class Infrastructure 5<sub>km</sub> Low cost hydro power -78° W -74° W -76° W and gas -72° W **Authier Lithium Project** 5<sub>km</sub> Grande Anse Rouyn-Noranda Sealed road access (X) 48° N-Val-d'Or **20**km Quebec Lithium Rail access to export port La Tuque Experienced local mining Quebec workforce Nemaska Lithium Tros-Rivieres Maniwaki • Becancour Major new hub of lithium 46° N carbonate production 100km Montreal Electricity 5¢ kWh 76° W Ottawa -78° W Gas < \$3 /GJ

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



DEMAND



SUPPLY



3 Li

Renewable grid storage

>30%

**CAGR** 

**Transportation** 

20-30%

electric and hybrid vehicles

**CAGR** 

Consumer **electronics** 

8-10%

**CAGR** 

- Slow ramp-up of new hardrock 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 –

current pricing

between US\$750-

US\$905/t in 2017

and US\$880/t for

2018

## Assessing Value Adding Opportunities

Lower-value Concentrates







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

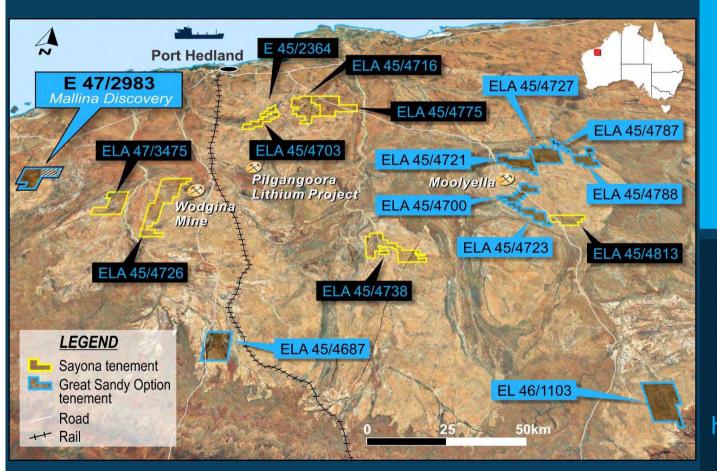




## Western Australia Lithium Portfolio



A globally significant region for production of Lithium



Low-cost entry with

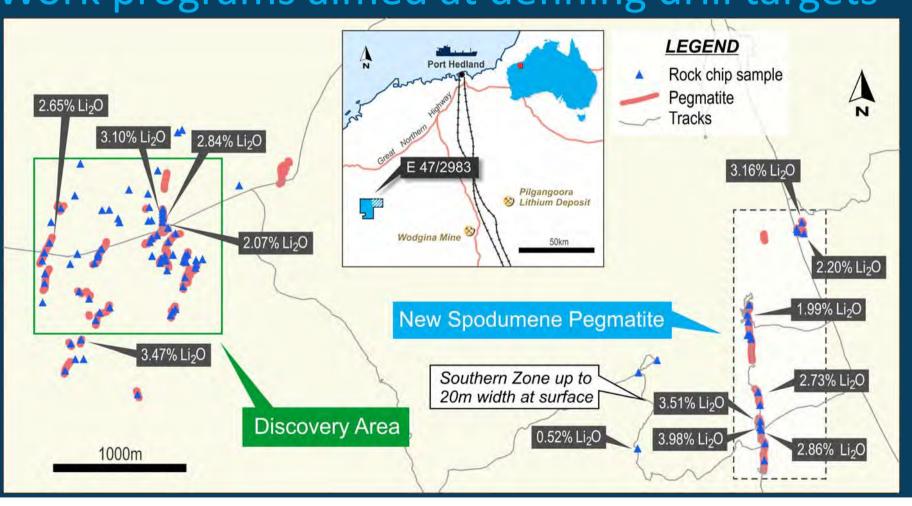
1,997 km<sup>2</sup>

tenement holding, including granted tenure

### Western Australia

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

# Mallina Project Demonstrating Potential Work programs aimed at defining drill targets



## Disclaimer



#### FORWARD LOOKING STATEMENTS

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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
- High Grade Lithium Mineralisation at Mallina, 8 February 2017

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