

*Sourcing the  
raw materials  
of the future*

ASX: SYA

**SAYONA**  
MINING LIMITED  
APRIL 2016

Investor Presentation –  
**Strategic Entry into the  
Lithium Market**

# The Green Energy Revolution



Creating Demand for **Graphite & Lithium** for Use in Batteries

# Lithium ...

# Critical in the Energy Revolution

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

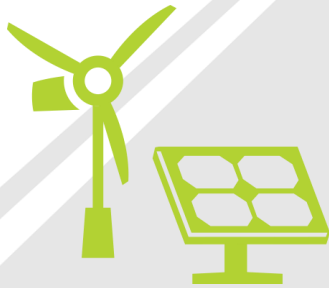
Disruptive Innovations II,  
2014

The Economist

“An Increasingly Precious Metal”

Jan 2016

The Company's strategy is to **change the world and power the future** by sourcing and developing the raw materials essential for lithium-ion battery production

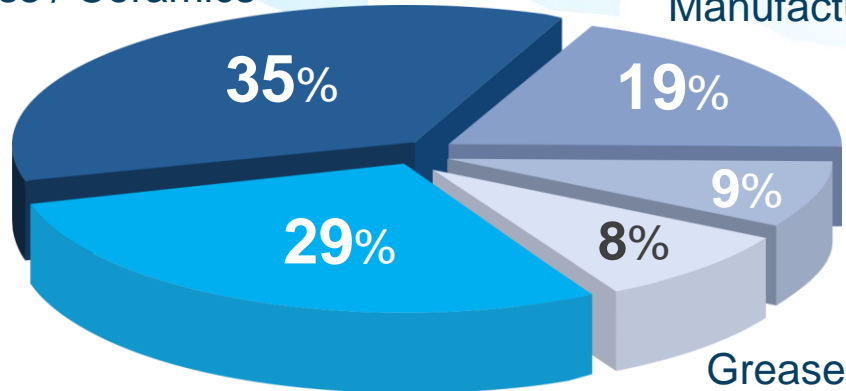




# Lithium Consumption – The Future is Electric

Glass / Ceramics

Manufacturing/ Plastics



Batteries

Other



## Lithium-ion is the battery of choice



Super energy density



Lighter, more compact and portable

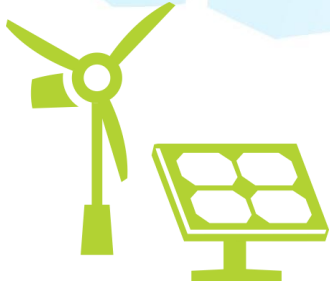


Longer life-cycle and more efficient



More environmentally friendly

# Key Demand drivers through to 2025



**Renewable** grid storage

**>30%**  
CAGR



**Transportation –**  
electric and  
hybrid vehicles

**20-30%**  
CAGR



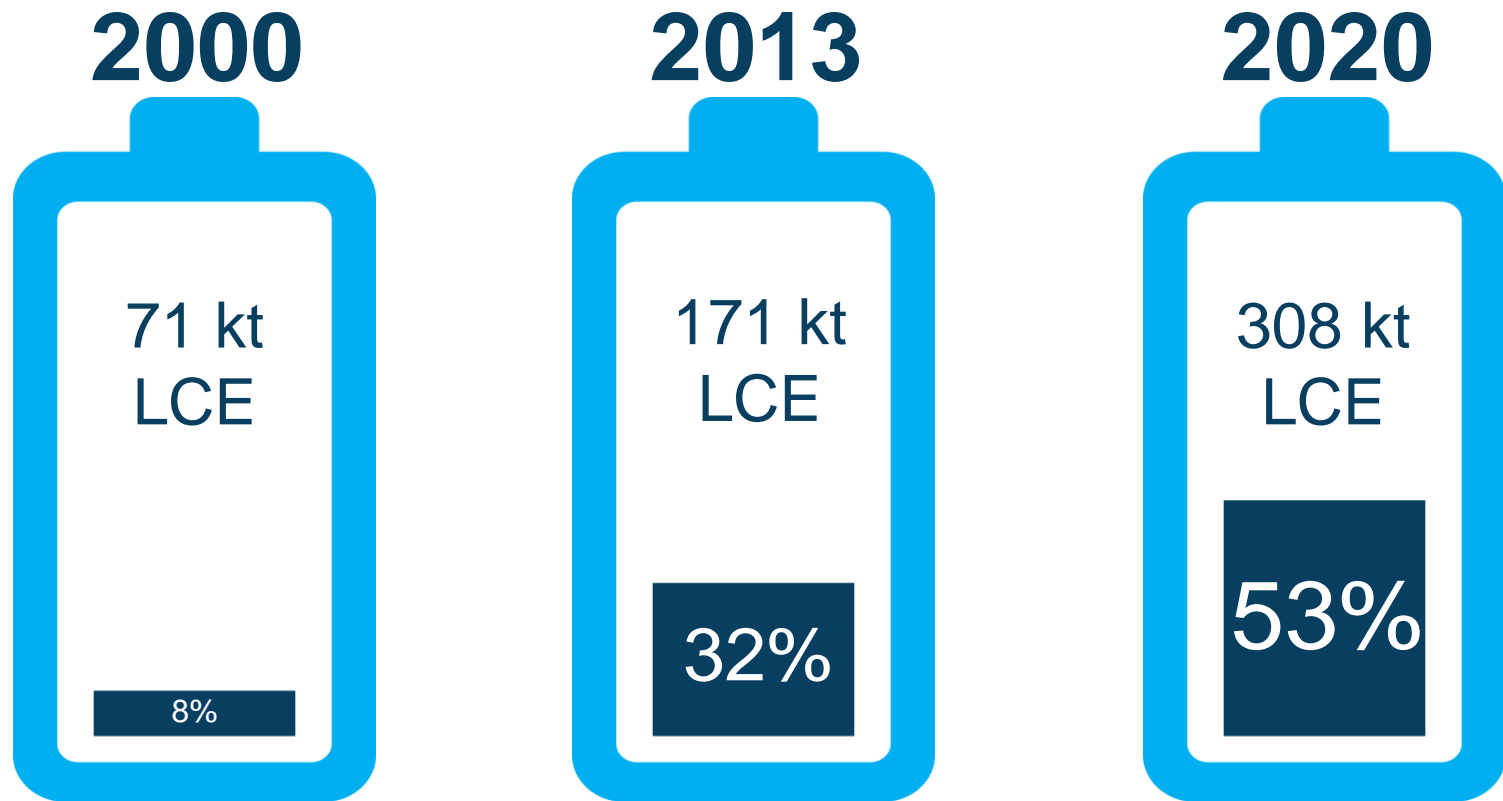
Consumer  
**electronics**

**8-10%**  
CAGR

# Batteries are the fastest growing segment

“ *The problem with existing lead-acid batteries is that they suck* ”

*Elon Musk*



■ Battery consumption as a % of total consumption

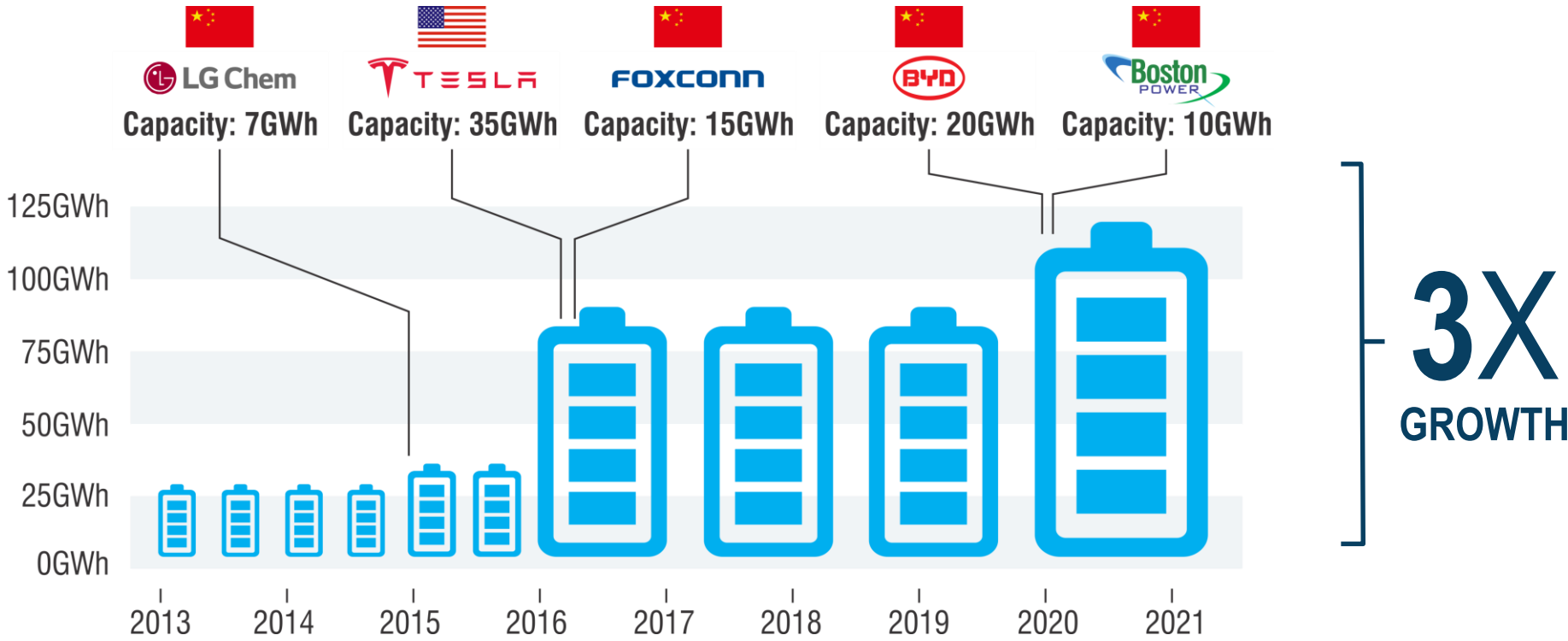
# The Megafactories are Coming

“ Solar power [with] batteries will be the primary means of sustainable energy production ”

Elon Musk



Tesla's Nevada site





# Dawn of a New Auto Era

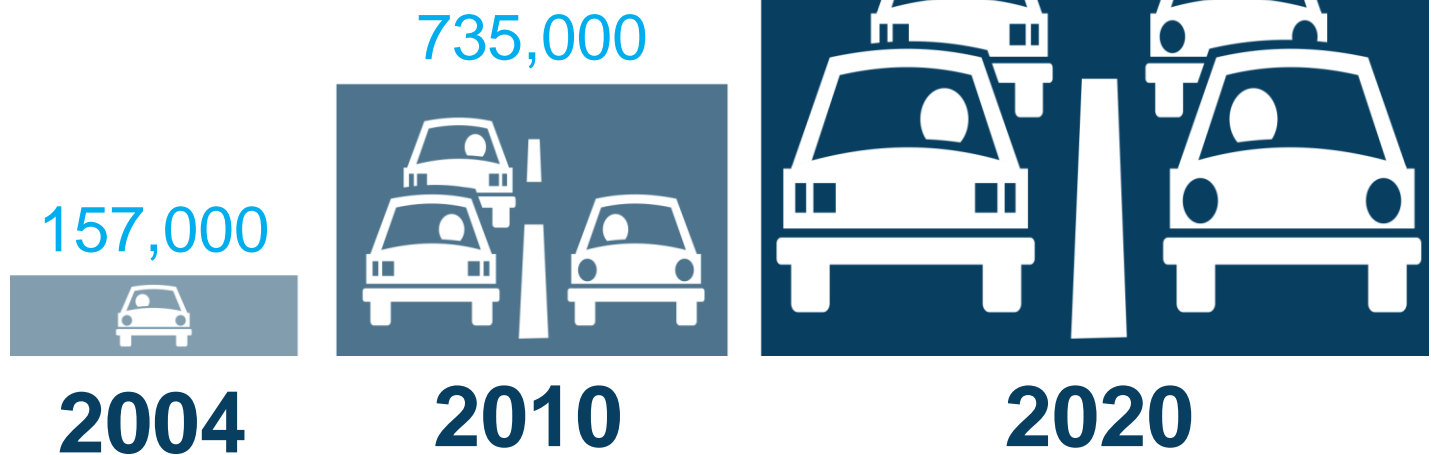
“ Car design will **change more in the next 15 years** than it has in the past 100 — **electrification** will kick start the **biggest change in automotive design in history** ”

*Ian Callum, head of design for Jaguar, April 2016*



# Electric & Hybrid Vehicles

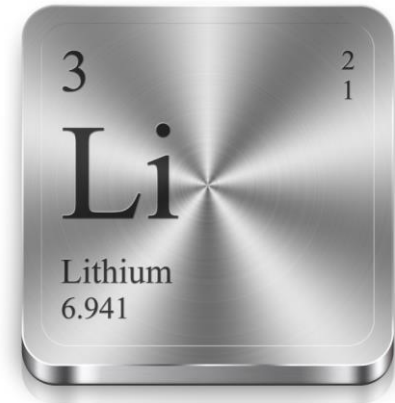
**20** MILLION EV & HYBRID CARS BY 2020



# Lithium Sources

**LITHIUM IS A SOFT SILVER-GREY METAL:**

- ✓ Low density and atomic mass
- ✓ High electrochemical potential
- ✓ High specific heat capacity



## 2 MAJOR SOURCES OF LITHIUM

Salt Lake (brine)



Hard rock pegmatite



**SIMPLE  
PROCESSING**



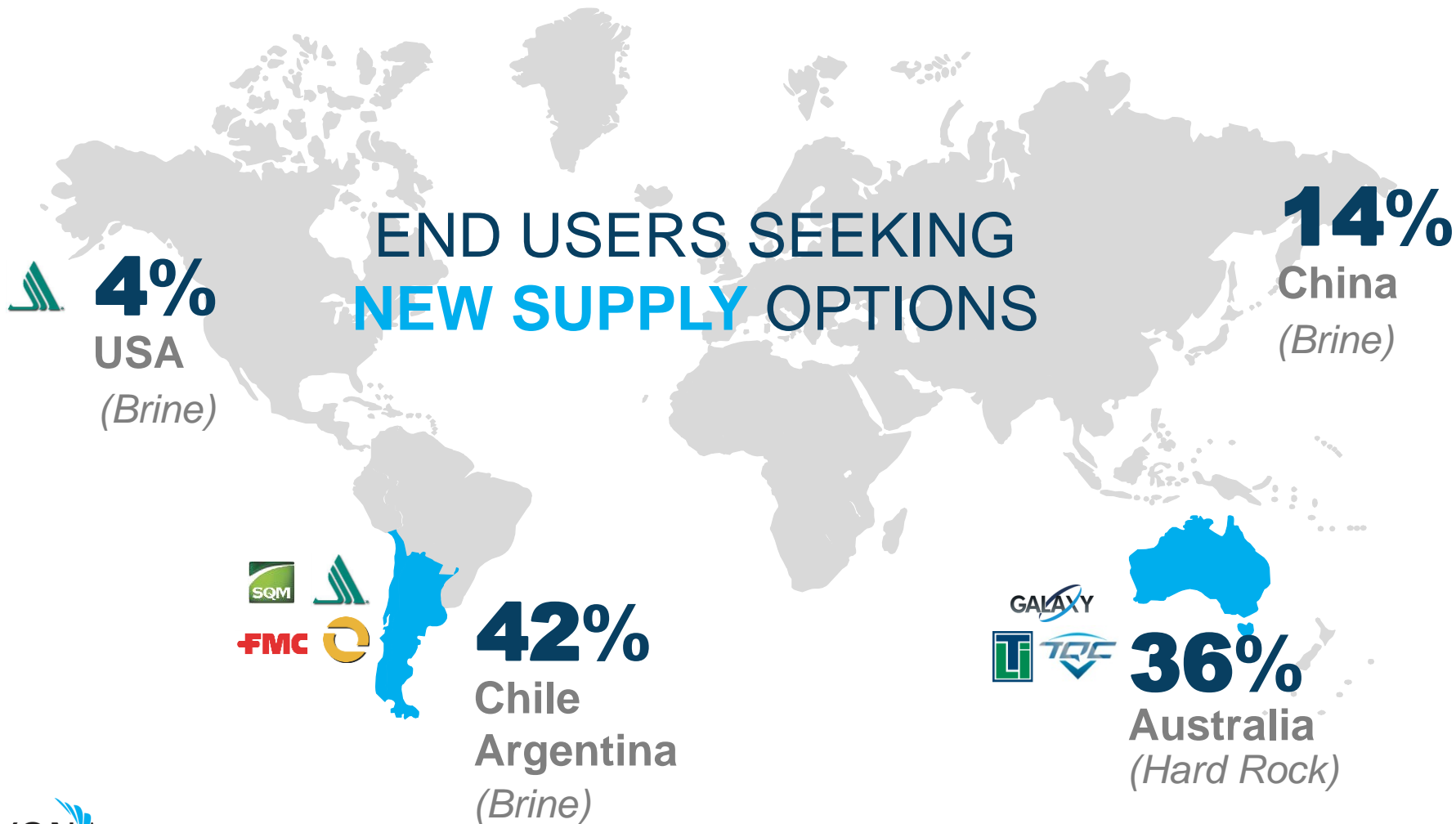
**CONVERTS TO  
LITHIUM-HYDROXIDE  
FOR USE IN  
LITHIUM-ION  
BATTERIES**



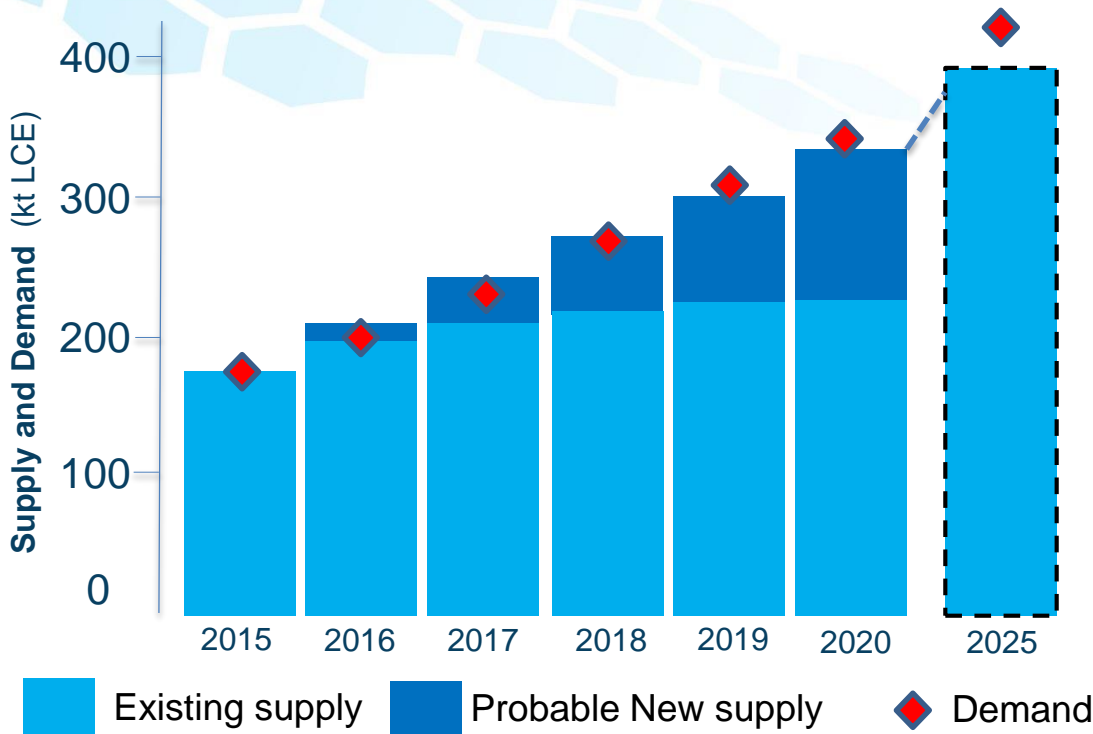
Spodumene extracted  
from pegmatites:

# Few New Lithium SUPPLY Options Available

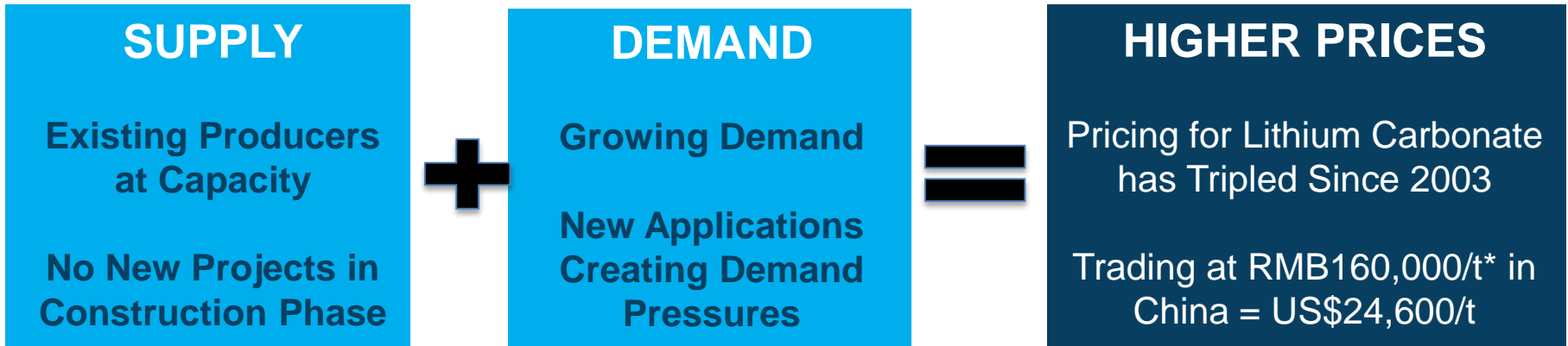
5 COMPANIES PRODUCE **90%** OF WORLD SUPPLY



# Supply & Demand – A Perfect Storm



BEYOND 2020  
GAP BETWEEN  
SUPPLY & DEMAND  
EMERGES





# Sayona Project Portfolio

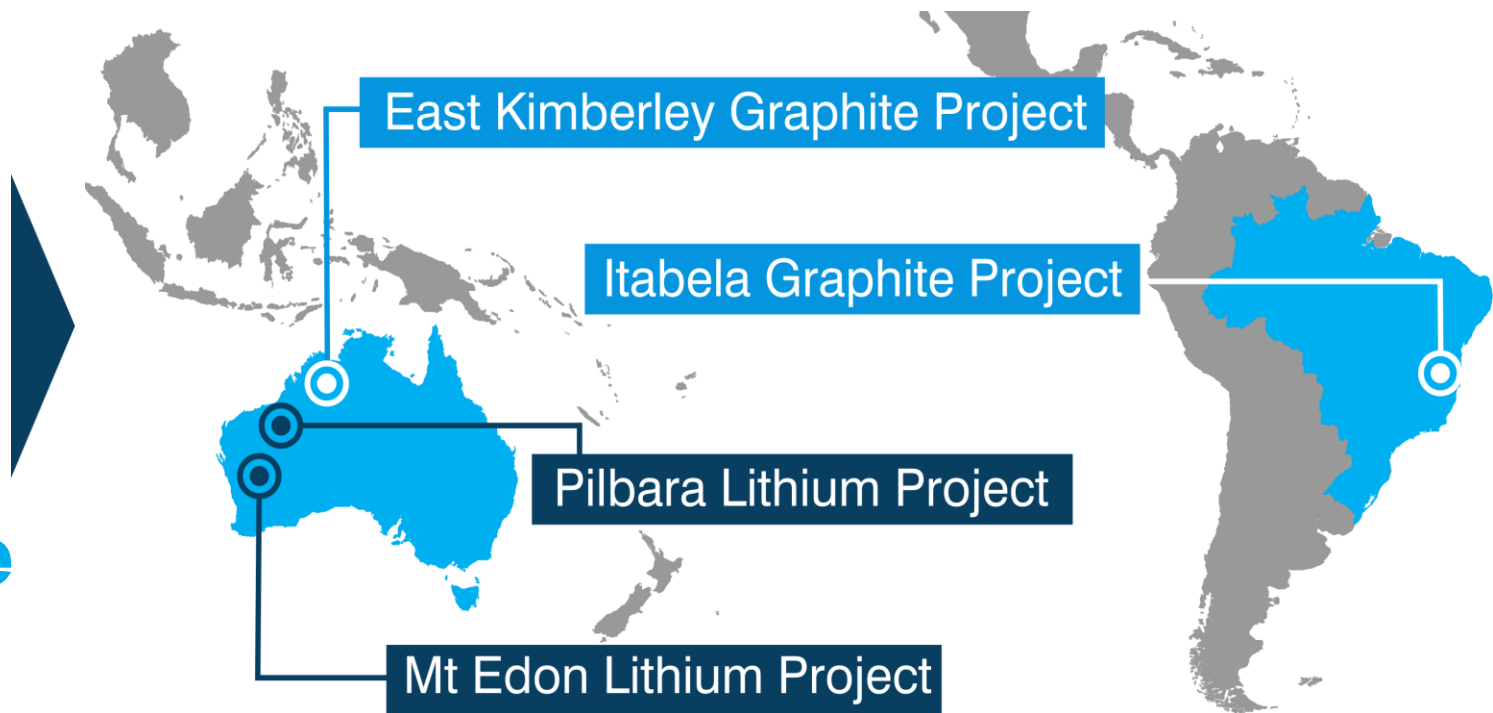
“ Recent lithium **tenement acquisitions** in Western Australia, a state growing in dominance as major lithium supplier, **compliment** the Company’s **graphite projects** and **strategy of securing the raw materials required to produce lithium-ion batteries** ”

Sayona CEO Corey Nolan

**Lithium**

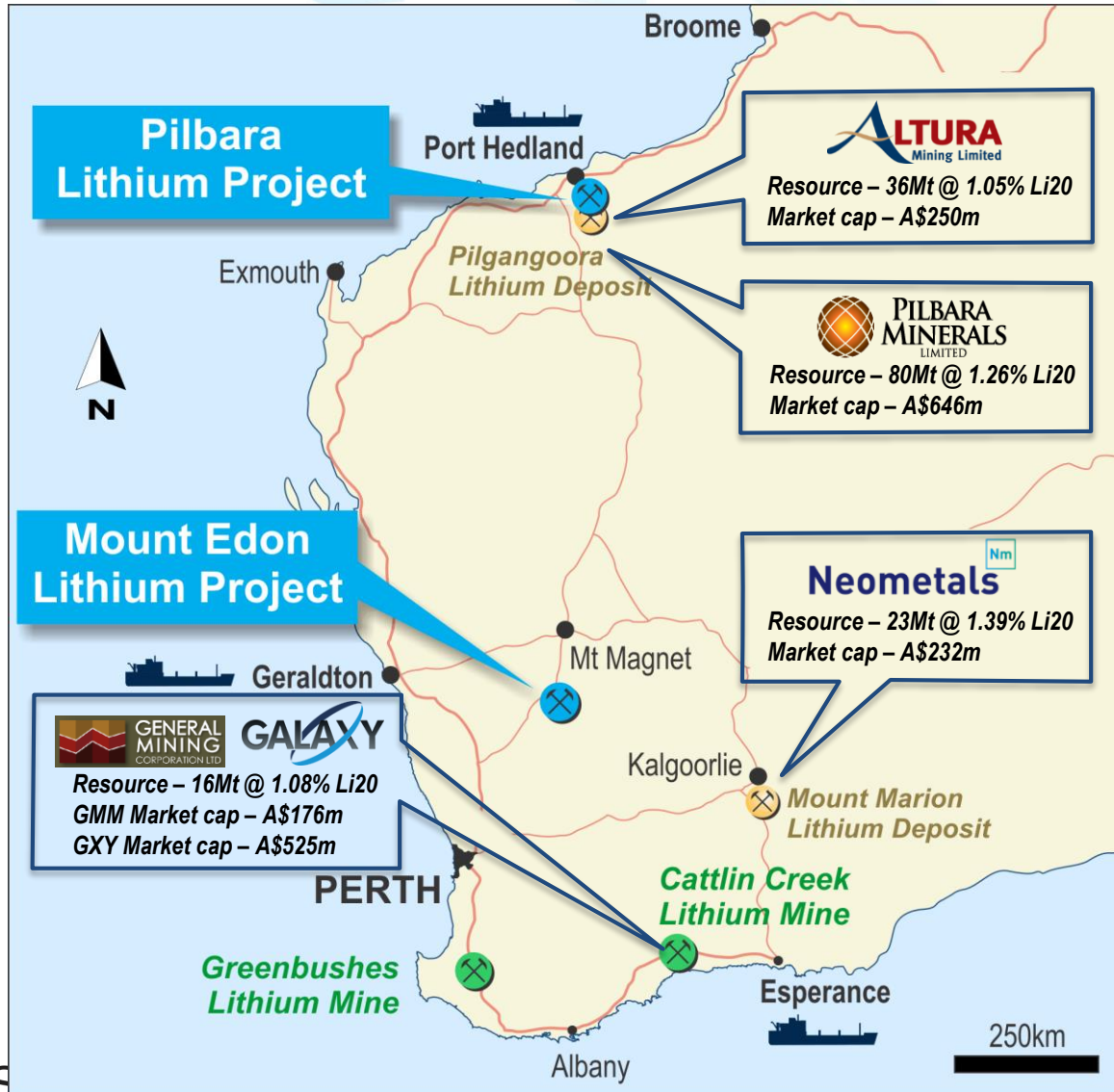


**Graphite**



# Western Australia

## A Globally Significant Region for Production of Lithium



Low-cost entry with

**843** km<sup>2</sup>

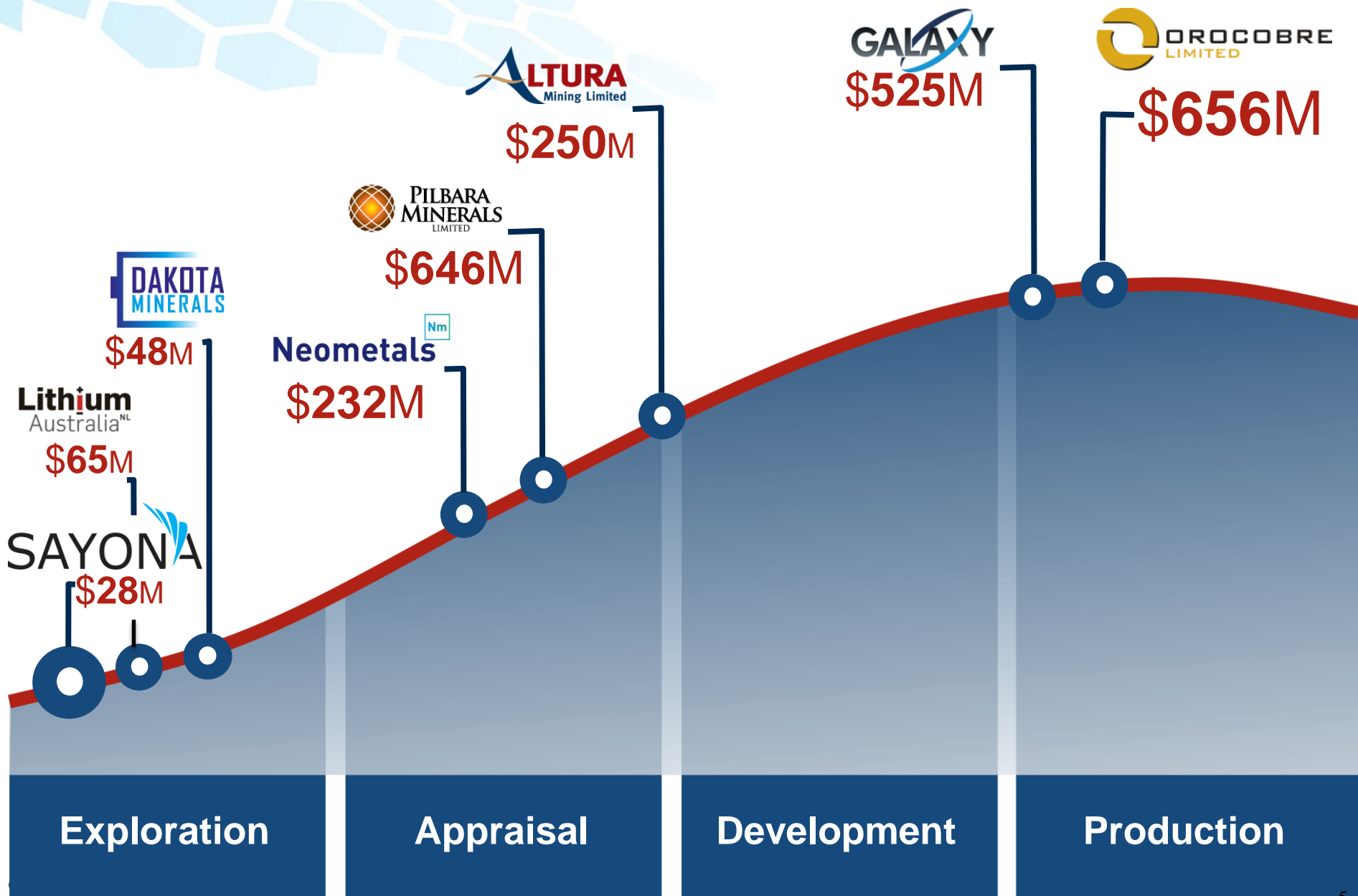
tenement holding,  
including granted tenure

**Western  
Australia**

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

# Lithium Value Up-lift Potential

Market Capitalisation of ASX listed Companies



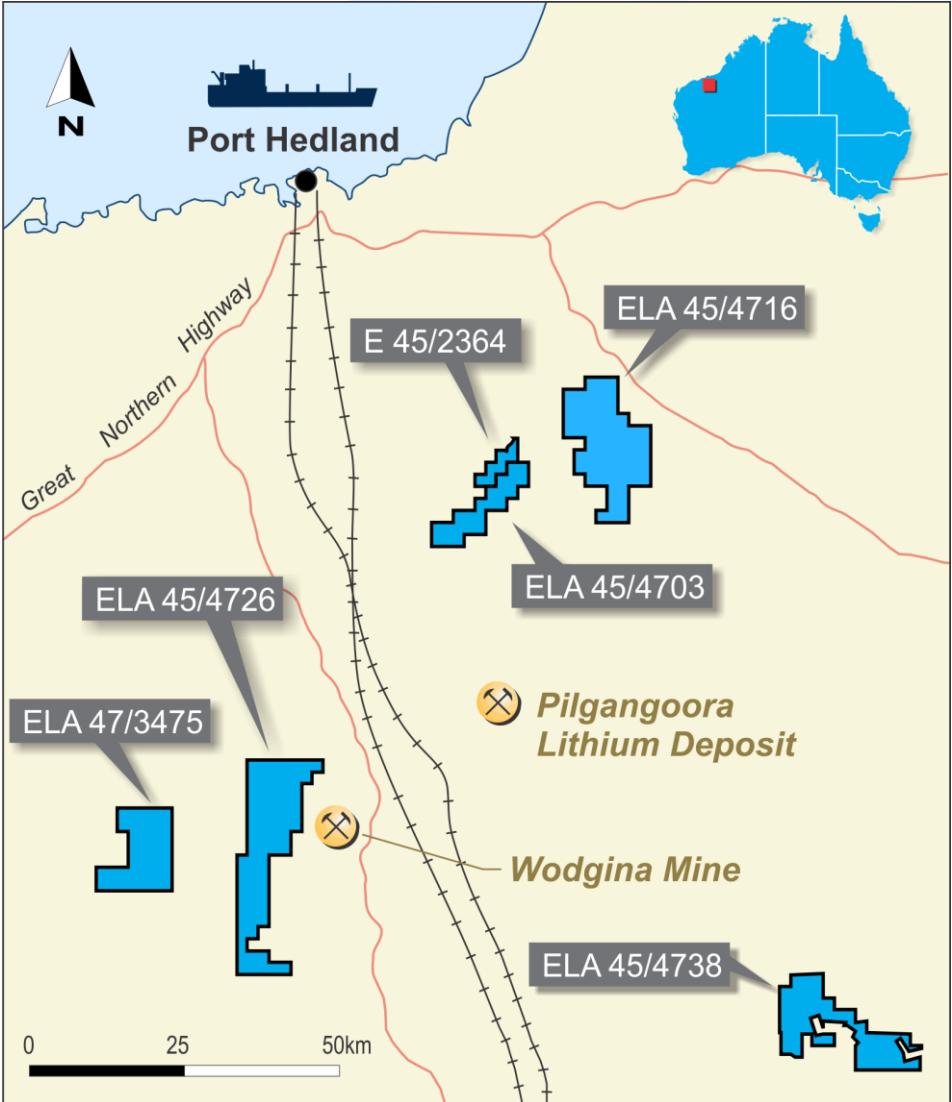


Simon Attwell – Exploration Manager  
with 29-years experience including  
exploring for lithium and tantalum



# Pilbara Lithium Projects

## Tenement package secured in proven lithium district



Located in close proximity to large, high-grade lithium deposits at Pilgangoora

**764km<sup>2</sup>**  
tenement package  
unexplored for lithium

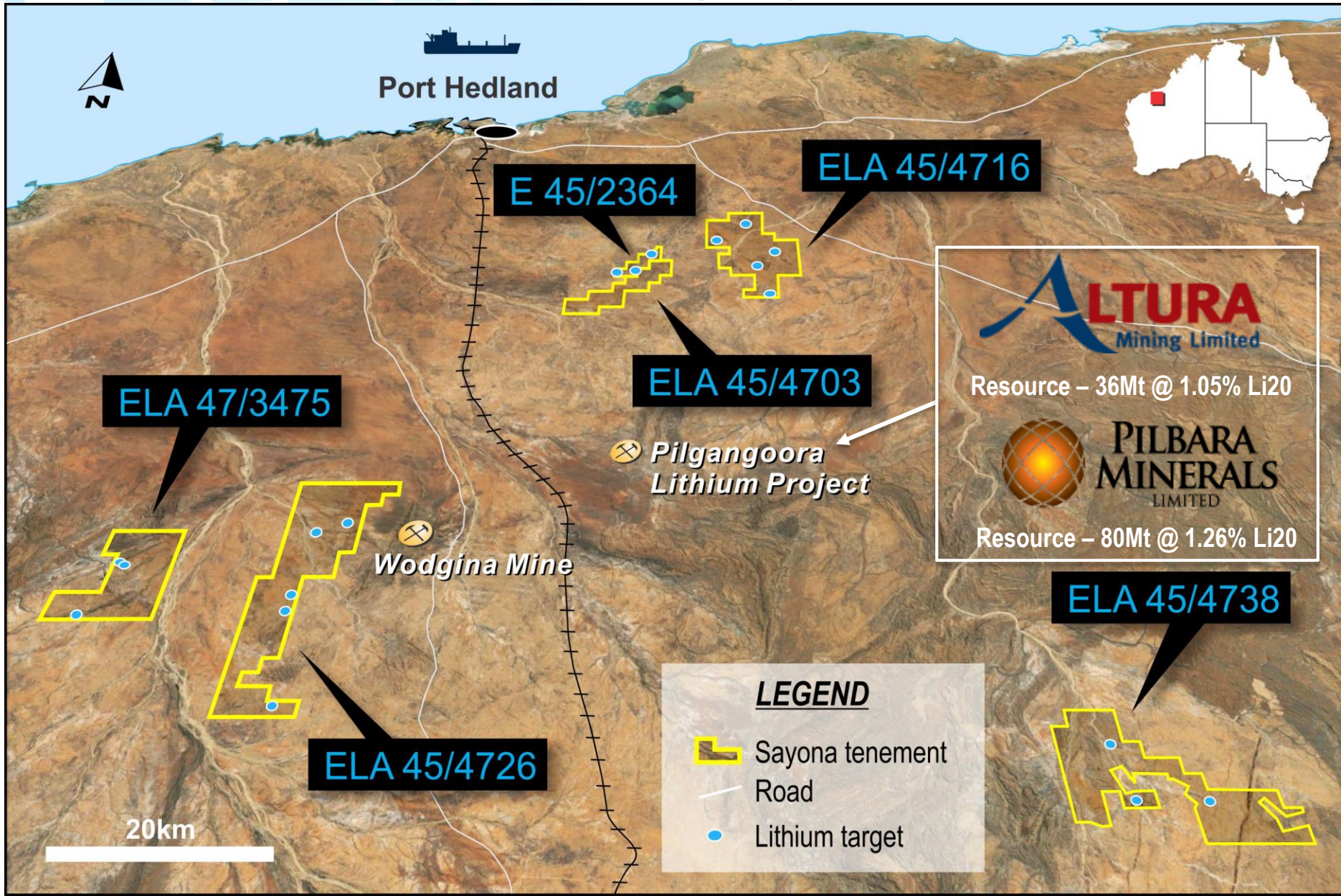
Well tested geological model  
Albite Spodumene targets

Infrastructure for access to world markets



# Pilbara Lithium Portfolio

## In close proximity to the Pilgangoora deposits



# Mount Edon Project

## A region never explored for its lithium potential



**79**km<sup>2</sup>

**tenement  
package**

historical tantalum  
mining area

over  
**70**

**pegmatites**

identified to date  
from radiometrics

Potential for  
**tantalum**

as a valuable  
**by-product  
credit**

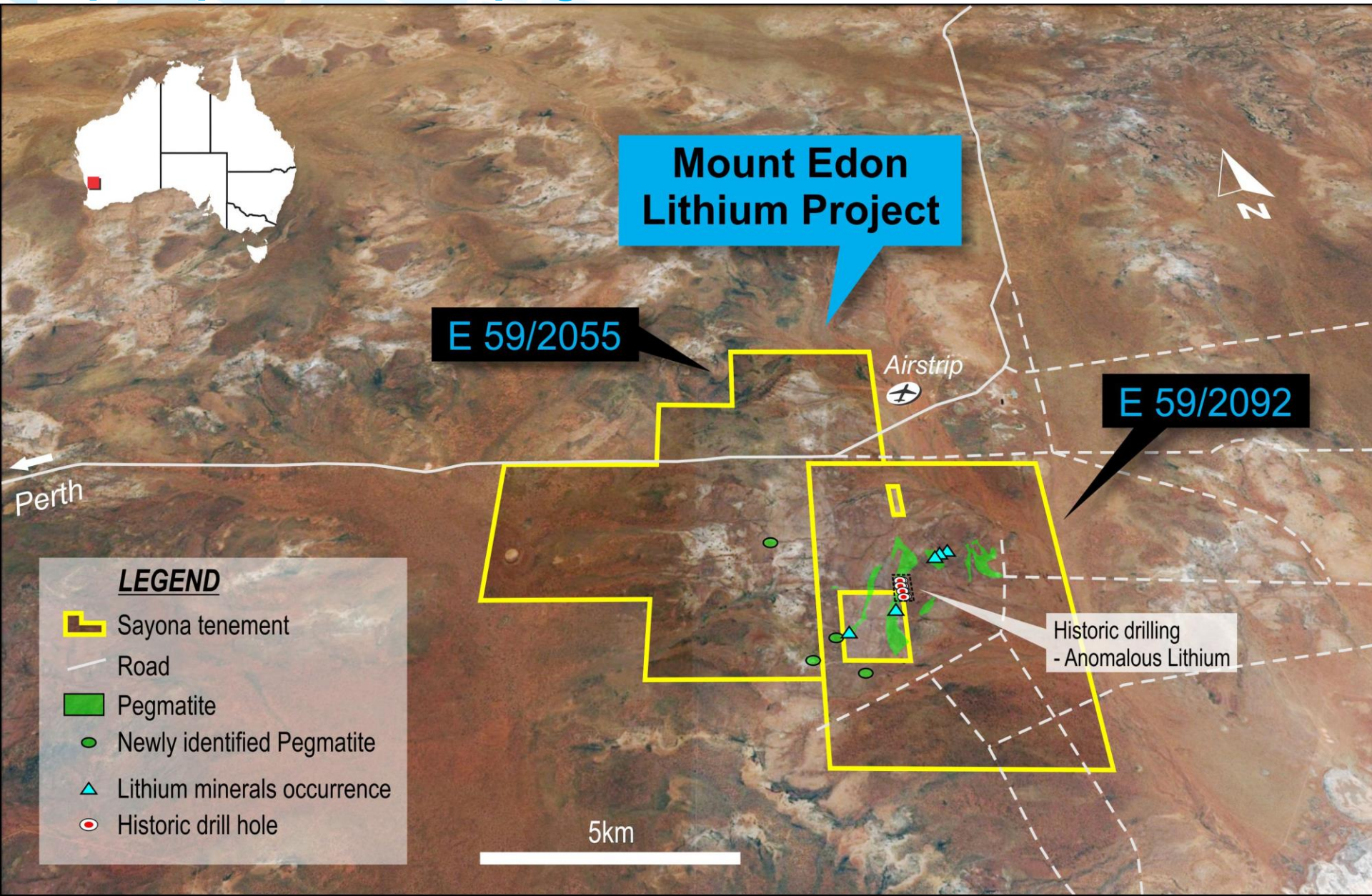
**Excellent**

**Infrastructure**



# Mount Edon Project

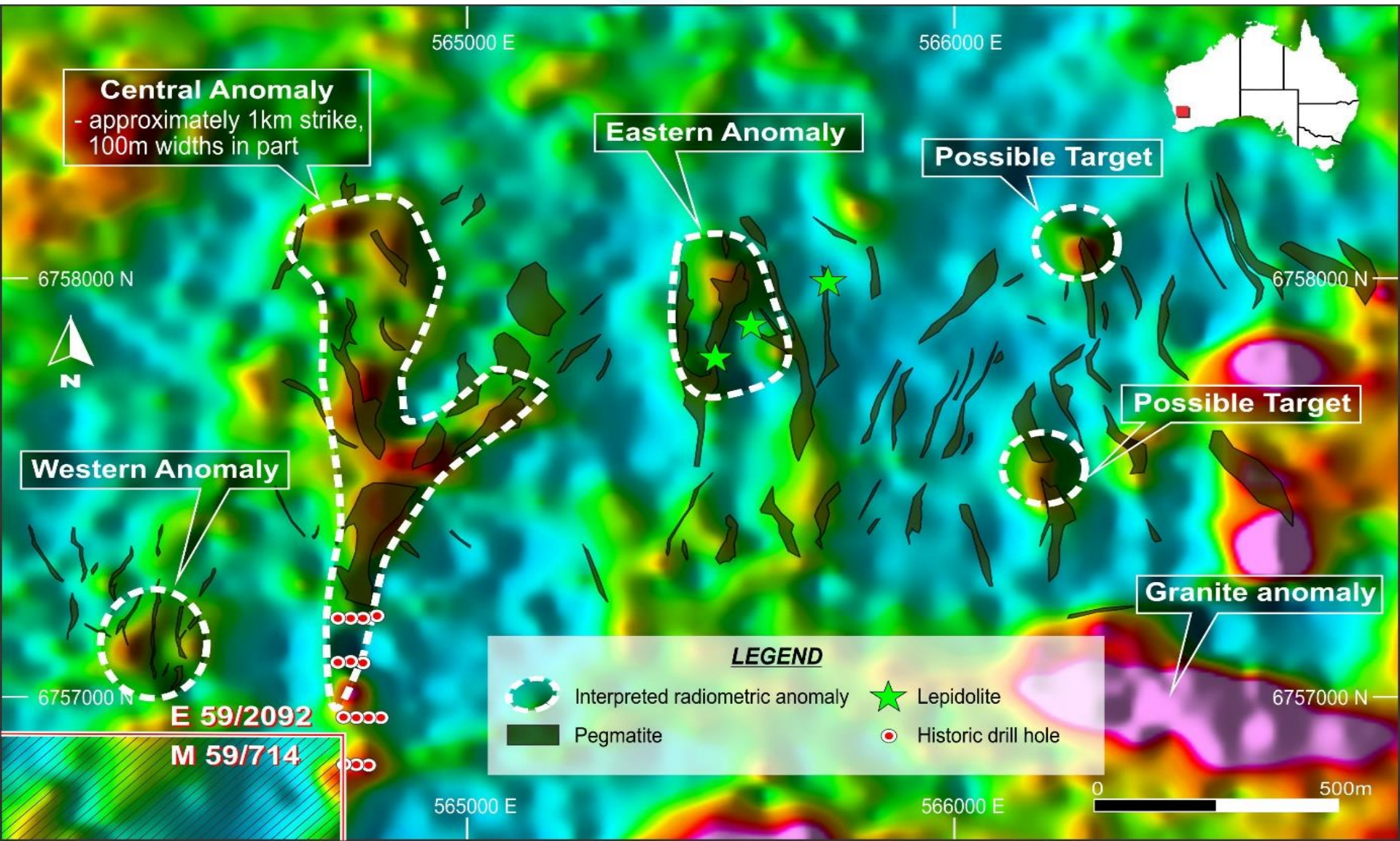
## A prospective new pegmatite field



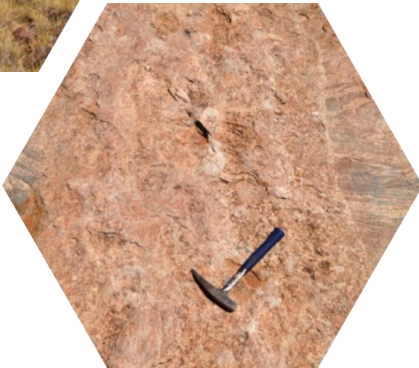


# Mount Edon Pegmatite Targets Defined

## Next phase includes mapping and sampling



# Western Australian Lithium - Next Steps



**Strategic land position secured**



**Exploration commenced -  
reconnaissance and sampling  
underway**



**Use technology to evaluate large  
ground position and identify new  
opportunities**



Ranking to advance best targets for  
drilling



Drill testing

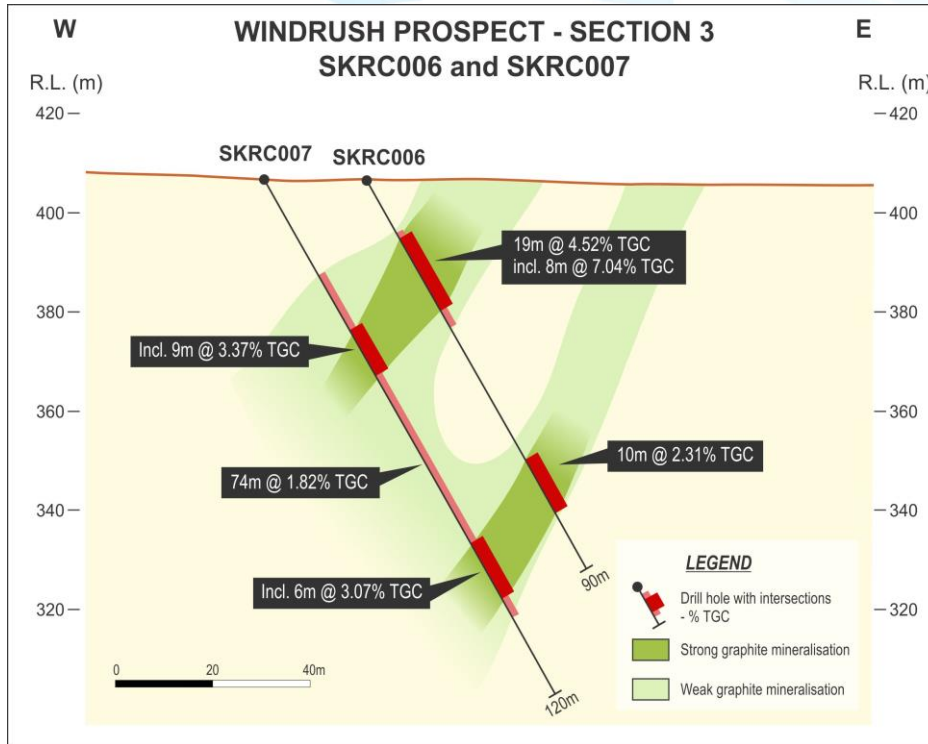


JORC Resources



# East Kimberley Graphite Project

## Metallurgical test work program underway



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

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

Best assay  
**12% TGC**

**278 km<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

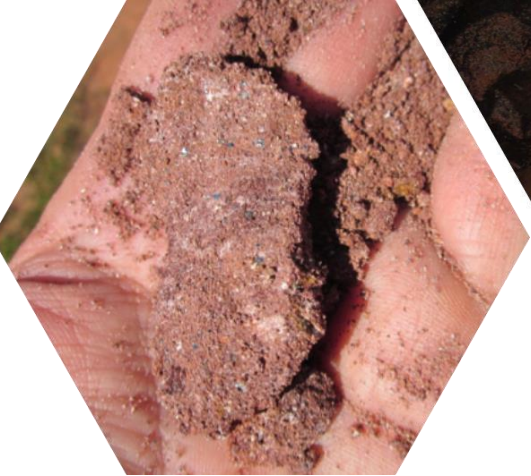
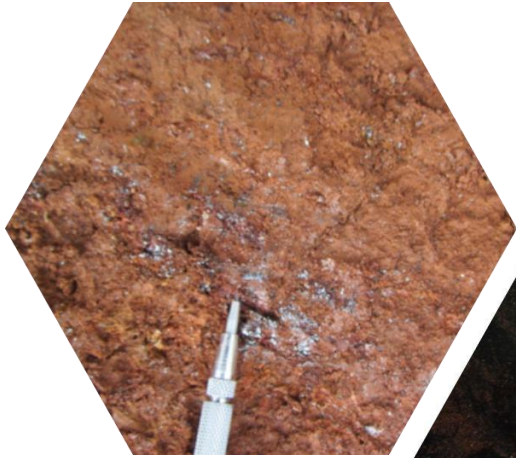
World-class  
Infrastructure

for access to  
**world  
markets**



# Itabela Graphite Project

## Assay results pending from drilling program



**2,440 m**

drilling completed in  
April 2015

**49** holes drilled

Results pending

**133**km<sup>2</sup>

**tenement  
package**

World's **second  
largest** graphite  
producing region

**Saprolite  
Advantage**

**NO** drill or blast

**NO** crushing

**LOW** grinding

High proportion of  
**large flake**

Infrastructure

for access to  
**world  
markets**

# Corporate Snapshot

## TRADING EXCHANGE

**ASX: SYA/SYAO**

## SHARES/OPTIONS

**517** Million shares

**110** Million options

## SHAREHOLDERS

DIRECTORS **44%**

## CAPITALISATION

Price **5.5¢**

\*as at close 15 April 2016

Market cap **\$28M**

Cash **\$1.46M**

As at Dec 2015

TOP 20 **74%**

# Strong Team With Track Record of Success

## Corey Nolan

Chief Executive Officer

23 years' of resources industry experience

Corporate and capital markets experience

Previously Managing Director of South American focused explorer, Elementos

## Dan O'Neill

Managing Director

Geologist with 35 years' of resources industry experience

Founding director of Orocobre

Director of Altura Mining

## Simon Attwell

Exploration Manager

29 years' mineral exploration experience - success in generation, exploration and discovery of mineral deposits

Director of Australian Tantalum, which owned Pilgangoora leases and was subsequently acquired by Altura Mining

## James Brown

Non-Executive Director

35 years' experience in the resources sector

22 years with New Hope Corporation

Managing Director of ASX lithium company, Altura Mining - \$200m market cap.

## Allan Buckler

Non-Executive Director

40 years' experience in the resources sector

Built mining operations in Australia and Indonesia as former director and chief operations officer for New Hope Corporation

Director of Altura Mining

## Paul Crawford

Executive Director

35 years' of resources industry experience

CPA and previously Company Secretary of companies including, Orocobre Ltd (founding director), Elementos and ActivEx

# Share Price Drivers

- ✓ Lithium exploration in Western Australia
- ✓ Lithium M&A
- ✓ Itabela drilling results
- ✓ East Kimberley flake size analysis
- ✓ Active stock promotion



# Disclaimer

## **COMPETENT PERSON STATEMENT**

The information in this report that relates to Exploration Results is based on information compiled by Mr Simon Attwell, a Competent Person, and who is a Member of The Australasian Institute of Mining and Metallurgy. Mr Attwell is an employee of Attagold Pty Ltd (“Attagold”) which provides geological services to Sayona. Attagold is a financial beneficiary if Sayona exercises its option to purchase agreement over the East Kimberley Graphite project.

Mr Attwell has sufficient experience that is relevant to the style of mineralisation and type of deposit under consideration and to the activity being undertaken to qualify as a Competent Person as defined in the 2012 Edition of the ‘Australasian Code for Reporting of Exploration Results, Mineral Resources and Ore Reserves’. Mr Attwell consents to the inclusion in the report of the matters based on his information in the form and context in which it appears.

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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 letter "A" 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, all-caps, sans-serif font. The entire logo is set against a dark teal background with a white hexagonal grid pattern.

**SAYONA**  
MINING LIMITED

