

### LITHIUM: THE KEY TO ENERGY REVOLUTION

We are an investor and cornerstone partner in the discovery, development and delivery of strategic metals



### INVESTMENT STRATEGY UNDER PINNED BY:

- Very strong global demand and increased pricing
- Exposure to investments along development curve
- Low cost projects , "Giant" resource base
- Focused on capital increases along the growth curve

The Stone Age came to an end not for the lack of stones... And the Oil Age will come to an end not for lack of oil"

-Sheikh Yamani, former Saudi Oil Minister

TOTAL OF

109%

INVESTMENT
RETURN



### **METRICS**

**Stock Ticker: KDNC** 

Market Cap : £42 million

Volumes: 37 m shares/

day

### THE TEAM

Ambitious team with key engineering, technical, corporate and financial experience and skills.

### Kiran Morzaria

CHIEF EXECUTIVE OFFICER

Over 20 years in the Exploration and Mining Industry.
Covering Exploration, Production, M&A & Finance across Africa.
South America, Australasia

Focused on fundamental appraisal of projects, growth strategies.
Qualified Engineering
Geologist / Postgraduate
Finance specialization

# Andrew Suckling

**EXECUTIVE CHAIRMAN** 

Over 20 years in the fund management, metals trading and hedge fund sector

Founding partner, research analyst and trader at Ospraie Management which at its peak had US\$ 9 billion under Management

Trader with London Metal Exchange. Established a trading presence in China

Graduate - Oxford University earning a BA (Hons) in Modern History in 1993 and an MA in Modern History in 2000.

# Donald Strang

FINANCE DIRECTOR

In excess of 20 years finance experience. For the last decade focused on the mining and exploration sector.

Qualified chartered accountant and member of the Australian Institute of Chartered Accountants

# Adrian Fairbourn

NON-EXECUTIVE DIRECTOR

Career in hedge fund and fund management sector. successfully assisted in over \$1 billion of structuring, capital and fundraising projects for several private companies

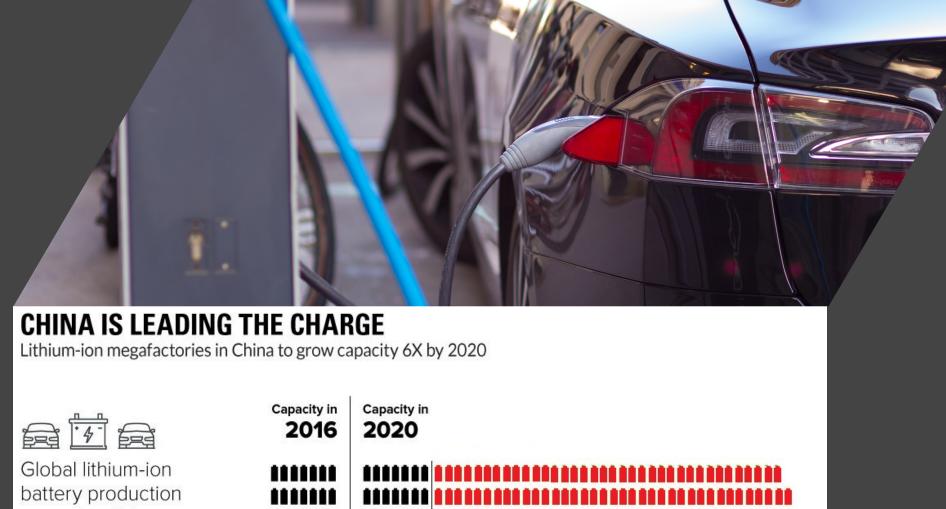


### DIVERSIFIED PORTFOLIO

Extensive Geographic Spread over Various Stages of the Development Curve



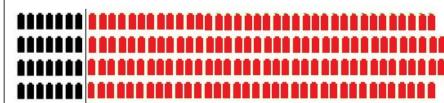
ву 2020 62% **OF MASS** PRODUCTION OF LITHIUM -ION BATTERIES WILL BE BASED IN CHINA



battery production capacity will increase by 521% between 2016 and 2020.

..... ..... .....

> 28 GWh

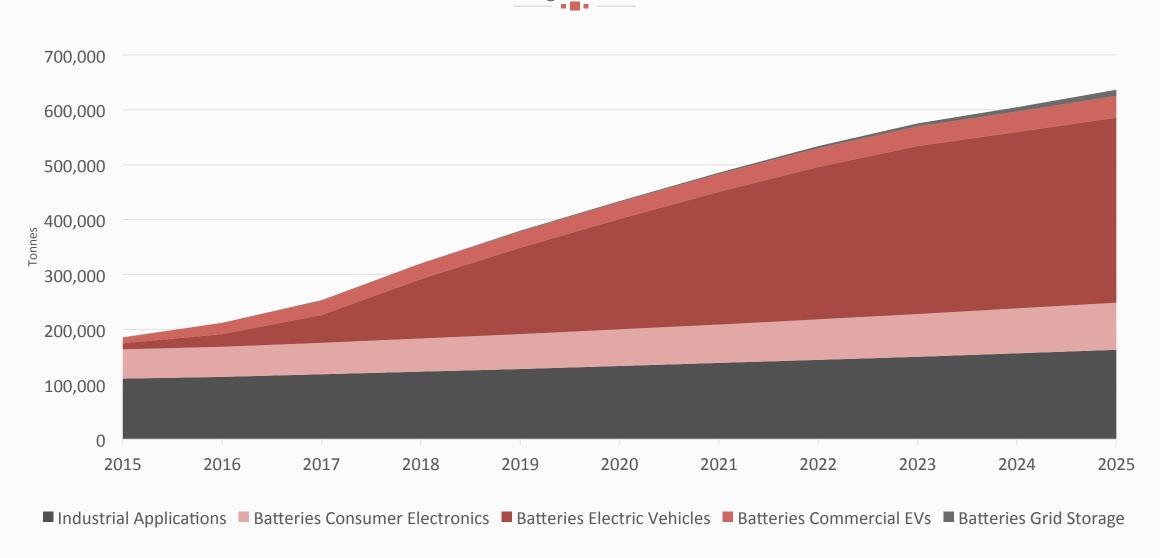


174

GWh

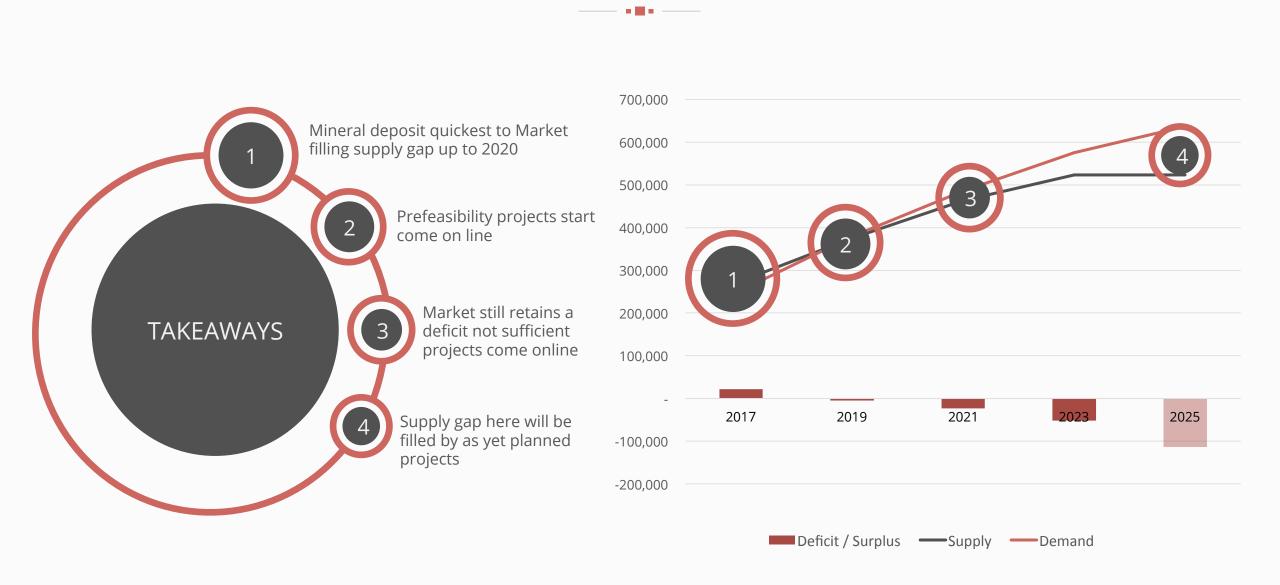
### DEMAND

EV are the key driver to increasing demand overall increases in demand 11% CGAR. Other increases in line with growth.



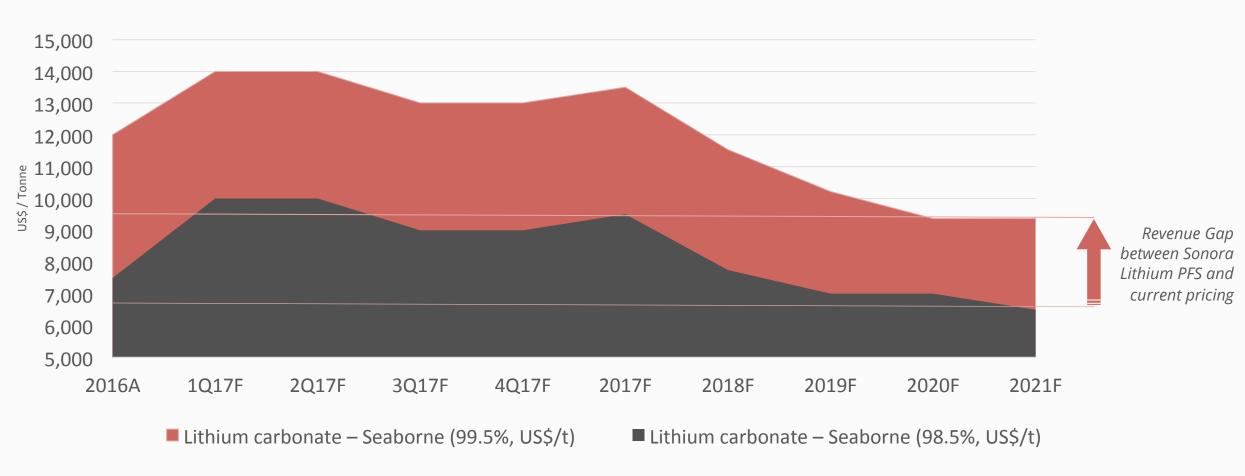
### STRONG SUPPLY AND DEMAND CURVE

Massive Expansion Projects Will Still Fall Short of Long-Run Demand Growth



### PRICING TO REMAIN STRONG

Prices to remain elevated compared to historic pricing US\$6,500 / tonne (99.5%)



\* Courtesy of Deutsche Bank

# - SONORA LITHIUM

A World Class Lithium Deposit in Northern Mexico



#### LARGE RESOURCE

Indicated Resource - 3.6 Mt LCE @ 3,200 ppm

Inferred Resource – 2.7 Mt @ 3,200 ppm Probable Reserve – 1.8 Mt @ 3,015 ppm



# SCALABLE DEVLOPMENT

Development of a scalable production strategy of 35,000 tonnes per annum lithium carbonate mine & chemical plant



### **LOW COST**

PRE-FEASIBILITY (MARCH 2016)

Operating Costs 3,200 / tonne Li<sub>2</sub>CO<sub>3</sub>

Capital Costs - US\$ 470 m Pay back - 5 years

NPV<sup>8</sup> Pre Tax - US\$776 m



### OPERATING PILOT PLANT

Providing battery grade lithium carbonate samples for delivery to off-takers in Asia and Europe in 2017

# Q1 2017 Q2 2017 Q3 2017 Q4 2017 H1 2018 Feasibility Study Ongoing Finanlise Opex and Capex Continue Shipment Samples Detailed Design Commence Site Acces & Infrastucture Detailed Design Commence Site Acces & Infrastucture

#### **OWNERSHIP**

19% Direct Equity 30% Joint Venture

#### **OPERATOR – BACANORA MINERALS**



### **KEY METRICS**

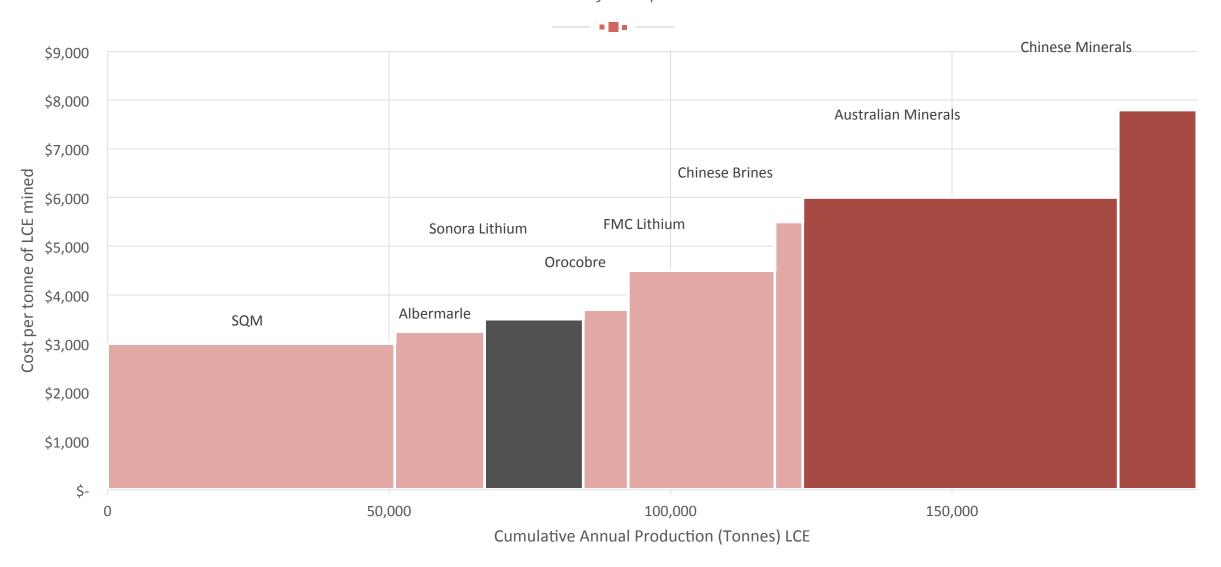
Equity Value (23/03/2017)	£17.4 million
Total Return (23/03/2017)	26%
Total Resources	5.9 Mt LCE*
Resources Attributable**	1.4 Mt LCE
Total Reserves	2.1 MT LCE
Reserves Attributable**	0.5 Mt LCE

<sup>\*</sup> LCE – Lithium Carbonate Equivalent

<sup>\*\*</sup> Based on Economic Interest at public equity level and joint venture

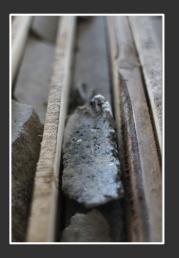
### PEER ANALYSIS

Sonora Pre-Feasibility Study show operating costs which compare favorably to its peers



# - CINOVEC LITHIUM

A large low cost previously mined lithium deposit in the heart of Europe



#### LARGE RESOURCE

LCE RESOURCE

Indicated Resource - 3.9 Mt LCE @ 2,100 ppm Inferred Resource - 2.9 Mt @ 1,800 ppm

TIN RESOURCE

Indicated Resource - 139Kt @ 400 ppm Inferred Resource - 123Kt @ 400ppm



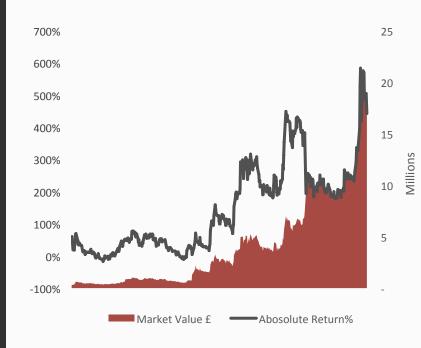
#### POTENTIAL LOWER HALF COST CURVE

Battery Grade Lithium Carbonate produced from testing Delivery of Pre-Feasibility Study March / April 2017 Heart of Europe with ready access to end user car makers Excellent infrastructure main road and rail access within 10km.

#### **OWNERSHIP**

21% Direct Equity

#### **OPERATOR - EUROPEAN METALS HOLDINGS**



### **KEY METRICS**

Equity Value (23/03/2017)	£13.9 million
Total Return (23/03/2017)	474%
Total Resources LCE	7 Mt LCE*
Resources Attributable LCE**	1.4 Mt LCE
Total Resource Sn	262 Kt LCE
Resource Attributable Sn**	52 Kt LCE

<sup>\*</sup> LCE – Lithium Carbonate Equivalent

<sup>\*\*</sup> Based on Economic Interest at public equity level and joint venture

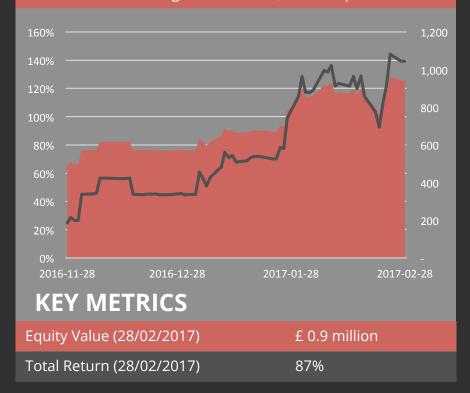
### LITHIUM PROJECT PIPELINE

### KARIBIB LITHIUM

7% Direct Equity

#### **OPERATOR - AUROCH**

- Early Stage Exploration
- Grab samples in excess 2% LiO<sub>2</sub> (8,000 ppm Li)
- Within Karibib Pegmatite Zones, historic producer

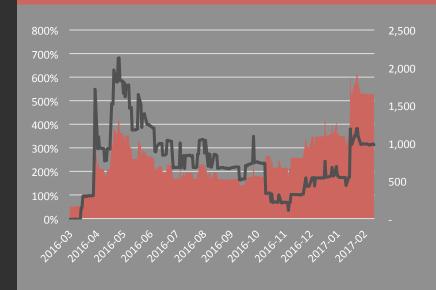


### **NEVADA / PILBARA LITHIUM**

16.6% Direct Equity

#### **OPERATOR - MACARTHUR MINERALS**

- Early Stage Exploration
- Pilbara Region 1,472km2 prospect applications
- Well established region for lithium prospectivity



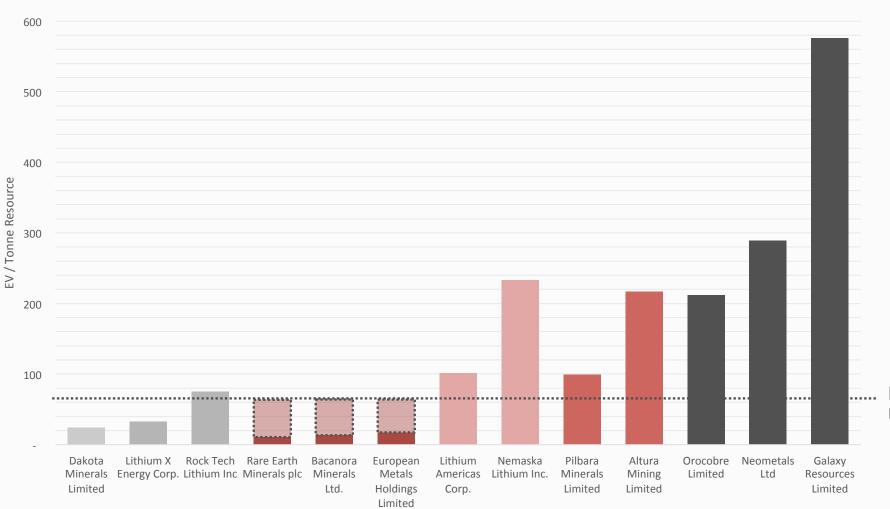
### **KEY METRICS**

Equity Value (28/02/2017)	£1.62 million
Total Return (28/02/2017)	295%



### PEER ANALYSIS

Enterprise Value / Tonne of Resource, both Sonora and Cinovec compare very favorably



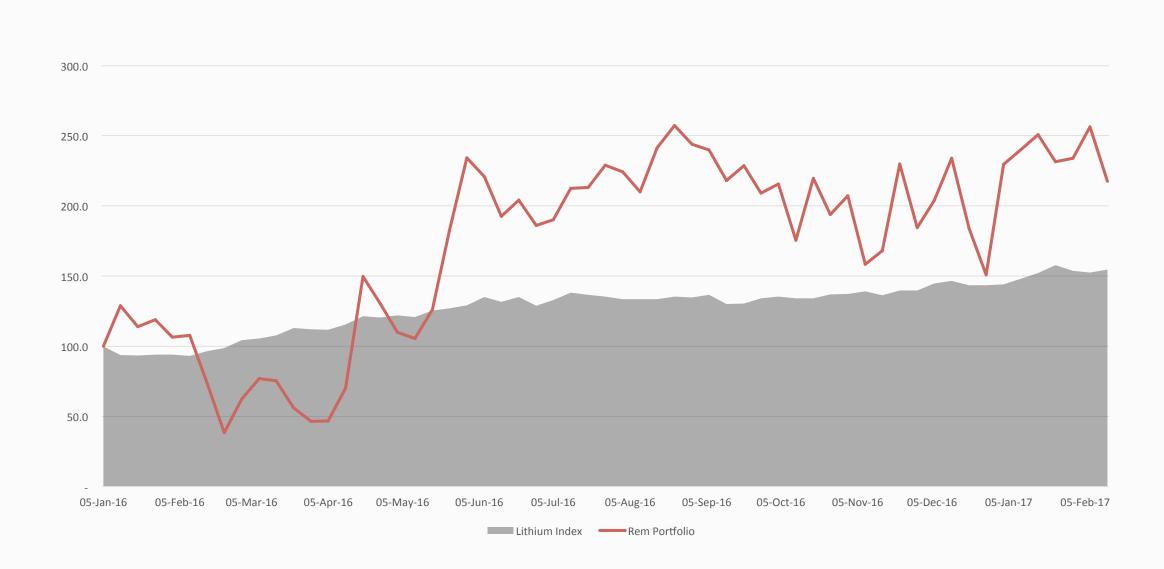
SONORA (BCN) and CINOVEC (EMH) current enterprise values US\$ 94 m and US\$ 121 m

SONORA and CINOVEC currently valued at US\$ 11 – US\$17 some **3x to 5x** below mean

Mean (Resource – Feasibility) US\$64 / Tonne

### RELATIVE PREFORMANCE

Lithium Equities have performed well over the last year however our investment strategy exceeded lithium index



### SUMMARY

### **FASTEST GROWING AREA OF MINING SECTOR**

- Forecasted 10% 16% Compound Annual Growth Rates
- Driven by electric vehicle revolution forecasted penetration of around 10% by 2025

### STRONG INVESTMENT THESIS

- Supply deficit from 2019
- Utilize key technical, strategic skills and understanding of financial markets to identify key assets that will feed supply chain

### **MANAGEMENT TRACK RECORD**

- Wealth of experience and skill mix
- Proven to identify investments that outperform market
- Sort the "wheat from the chaff"

### LARGE SCALE, LIQUIDITY AND NEWS FLOW FROM MULTIPLE ASSETS

- Combined Total Resource over investments some 14Mt of LCE.
- Strong news flow & catalysts (PFS Cinovec, FS Sonora, exploration activities Auroch)



### **APPENDIX**



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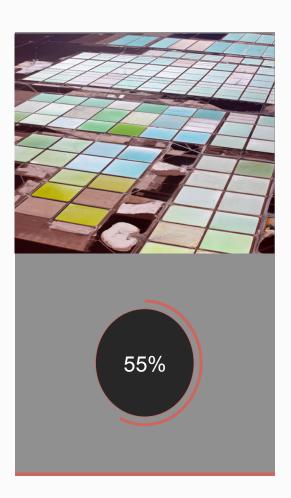
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# LITHIUM RESERVES AROUND THE WORLD



# TWO MAJOR SOURCES OF LITHIUM

Lithium is contained primarily in Spodumene (Mineral), and in saline groundwater enriched with lithium (Brines).



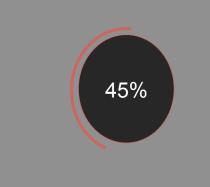
#### **BRINES**

Found in desert environments (Atacama) typically carrying 200-1,400 milligrams of lithium per liter. Pumped to the surface and concentrated via evaporation

#### CHARACTERISTICS

- This deposits are often remote therefore infrastructure can be an issue.
- Can produce end-product
- Higher capex
- Lower opex
- Long lead times as residence times are typically 9-12 months
- Weather dependent





#### **MINERALS**

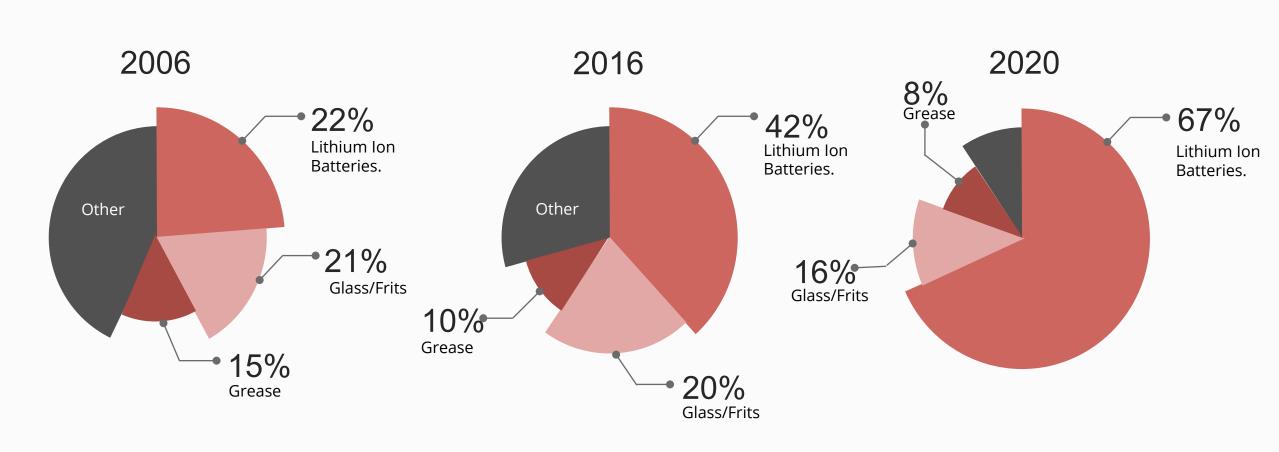
Found in granitic pegmatites, containing spodumene and petalite. Spodumene has a theoretical contentt of 8% lithium oxide

#### CHARACTERISTICS

- Currently produce a spodumene concentrate circa 6% lithium oxide
- Typically shipped to China to produce end products such as lithium carbonate and lithium hydroxide.
- Typically lower capex however if the conversion plant is included roughly same capital intensity
- Quicker to market
- Higher Opex

# SIESMIC SHIFT IN DEMAND DRIVERS

"EV Adoption Drives Once-in-a-Century Demand Surge" – MorningStar Nov 2016



<sup>\*</sup> Courtesy of Benchmark Minerals

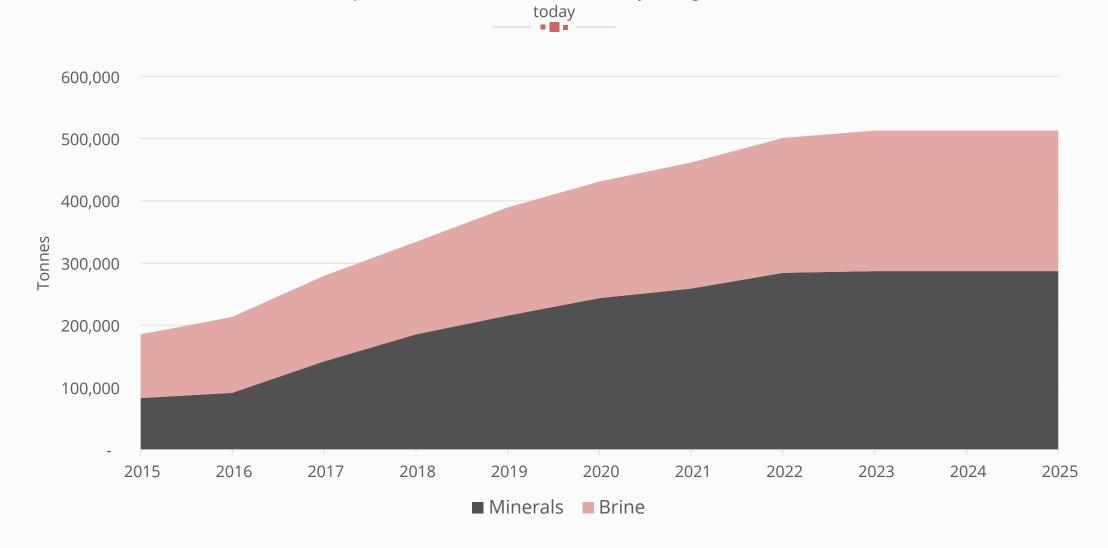
### SUPPLY SIDE

Increasing in pricing in lithium compounds has driven new development and exploration, from a handful less than 10 years ago to hundreds



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