

ASX: RNU

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**Renascor Resources Ltd**

ABN 90 135 531 341

**HEAD OFFICE**

36 North Terrace  
Kent Town, SA 5067  
Australia

**CONTACT**

T: +61 8 8363 6989

F: +61 8 8363 4989

[info@renascor.com.au](mailto:info@renascor.com.au)

[www.renascor.com.au](http://www.renascor.com.au)

**ASX CODE**

RNU

## Presentation to the South Australian Resources & Energy Investment Conference

Attached please find a copy of the presentation to be delivered to the South Australian Resources and Energy Investment Conference, today.

### BACKGROUND INFORMATION

*Renascor Resources is an Australian-based company focused on the discovery and development of economically viable mineral deposits. Renascor has an extensive tenement portfolio, holding interests in projects in key mineral provinces of South Australia, the Northern Territory and Western Australia, including significant graphite projects near Arno Bay, South Australia and at Munghlinup, Western Australia.*

Developing  
Australia's largest  
graphite deposit



### FOR FURTHER INFORMATION, PLEASE CONTACT:

**David Christensen**  
Managing Director

**Angelo Gaudio**  
Company Secretary

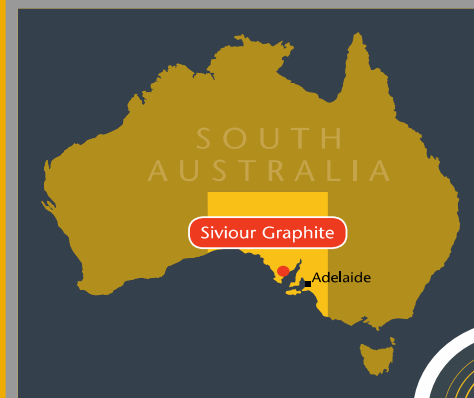
+61 8 8363 6989

[info@renascor.com.au](mailto:info@renascor.com.au)

Renascor Resources Limited  
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# Siviour: a Tier-1 Graphite Deposit in Australia?

David Christensen



**SOUTH  
AUSTRALIAN  
RESOURCES & ENERGY INVESTMENT  
CONFERENCE**  
23 - 24 May 2017  
Hilton Adelaide

Presented to the South  
Australian Resources & Energy  
Investment Conference  
*23 May 2017*

  
**RENASCOR  
RESOURCES**

# Important notices



## **Forward Looking Statements**

This Presentation may include statements that could be deemed “forward-looking” statements. Although Renascor Resources Limited (the “Company”) believes the expectations expressed in such forward-looking statements are based on reasonable assumptions, such statements are not guarantees of future performance and actual results or developments may differ materially from those expected in the forward-looking statements or may not take place at all.

This presentation contains results of a Scoping Study. The Scoping Study results are based on a preliminary technical and economic study of the potential viability of the Siviour Graphite Deposit. The Scoping Study is based on low level technical and economic assessments that are not sufficient to support the estimation of ore reserves. Further evaluation work and appropriate studies are required before Renascor will be in a position to estimate any ore reserves or to provide any assurance of an economic development. See Renascor ASX release dated 23 May 2017.

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## **Competent Persons Statement**

The results reported herein, insofar as they relate to exploration activities and exploration results, are based on information provided to and reviewed by Mr G.W. McConachy (Fellow of the Australasian Institute of Mining and Metallurgy) who is a director of the Company. Mr McConachy has sufficient experience relevant to the style of mineralisation and type of deposits being considered to qualify as a Competent Person as defined by the 2012 Edition of the Australasian Code for Reporting of Exploration Results, Mineral Resources and Ore Reserves (the JORC Code, 2012 Edition). Mr McConachy consents to the inclusion in the report of the matters based on the reviewed information in the form and context in which it appears.

The results reported herein, insofar as they relate to metallurgical test work results, are based on information provided to and reviewed by Mr Simon Hall, a Competent Person who is a Member of the Australasian Institute of Mining and Metallurgy and a consultant to the Company. Mr Hall has sufficient experience relevant to the mineralogy and type of deposit under consideration and the typical beneficiation thereof. Mr Hall consents to the inclusion in the report of the matters based on the reviewed information in the form and context in which it appears.

# Highlights



## Scoping Study demonstrates Siviour's potential to become a Tier-1 graphite mine

### Globally competitive

NPV<sub>10</sub> (after-tax): AU\$551m/US\$408m

Payback: 1.7 years

OPEX: AU\$450/US\$333 per tonne

Product price: AU\$1,420/US\$1,051 per tonne

### Location

South Australia offers graphite supply chain with stable political environment, skilled workforce and access to established infrastructure

### Large-scale, long-life

Among ten largest reported graphite deposits in the world

### High quality, low cost product

Competitive flake size distribution and high purities offer potential to service traditional and lithium-ion battery and other high growth markets





# Siviour scoping study



## Study overview



## Flake graphite production plant

Product produced and containerised on site

Road transport to Port Adelaide

## Indicated Resource

20-year mine life using only Indicated Resource

## Conventional mining

## Standard graphite flowsheet design

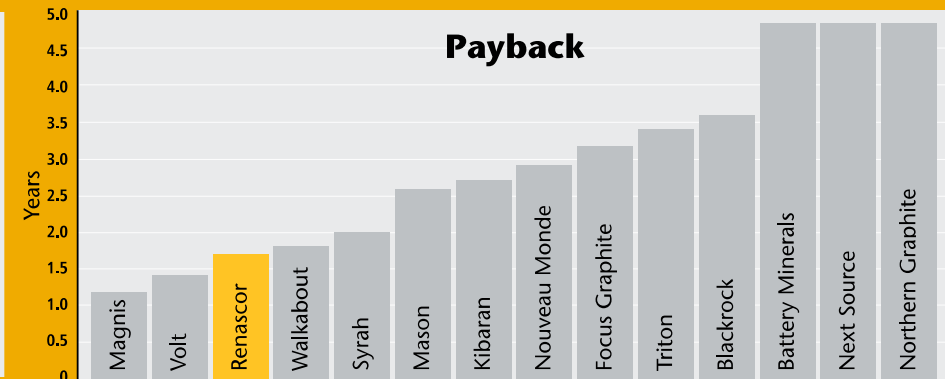
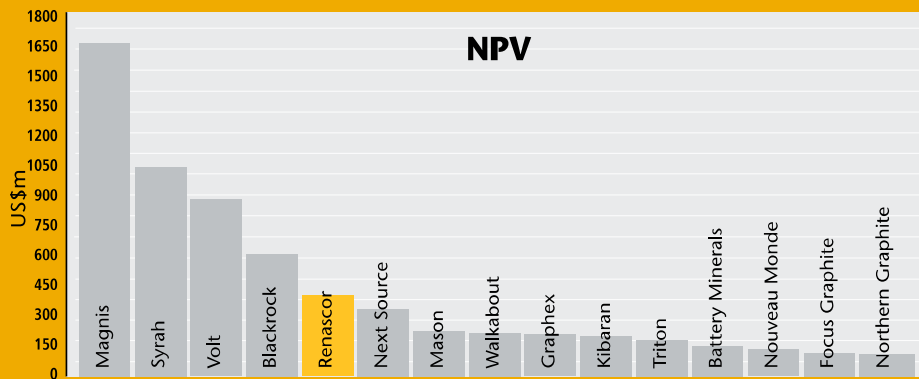
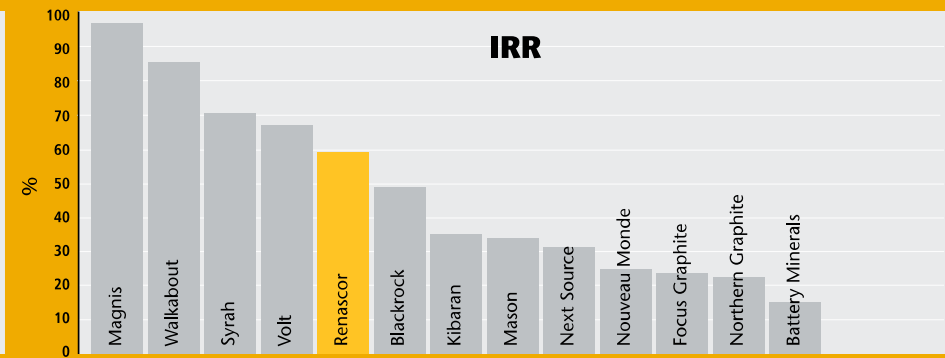
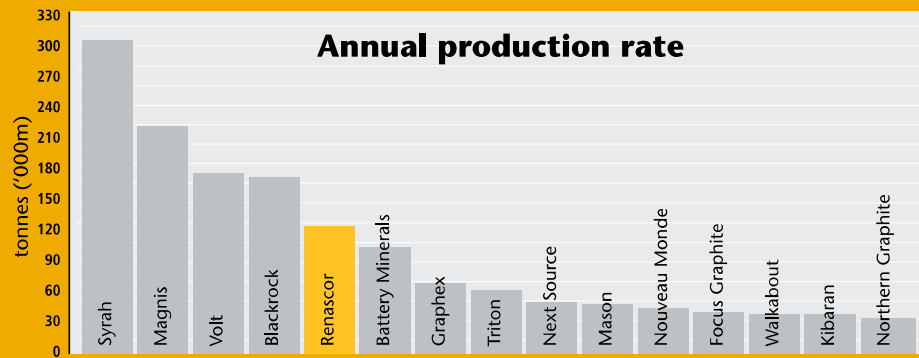
Non-chemical, non-thermal

## Local workforce

# Scoping study results



... that compare favourably to other graphite developments globally



Source: Company reports on economic studies of flake graphite projects

# Scoping study results



## Competitive project economics . . .

Annual graphite concentrate production (tonnes per annum)	123,000	
Process plant throughput (tonnes per annum)	1,650,000	
LOM average feed grade (TGC)	8.1%	
NPV <sub>10</sub> (after tax)	AU\$551m	US\$408m
IRR (after tax)	59%	
Cash cost of production (per tonne of concentrate)	AU\$450	US\$333
Capital cost (pre-production)	AU\$144m	US\$107m
Sustaining capital	AU\$28m	US\$21m
Basket sales price	AU\$1,420	US\$1,051
Payback (after-tax) from first production	1.7 years	

High NPV



Low cost of production



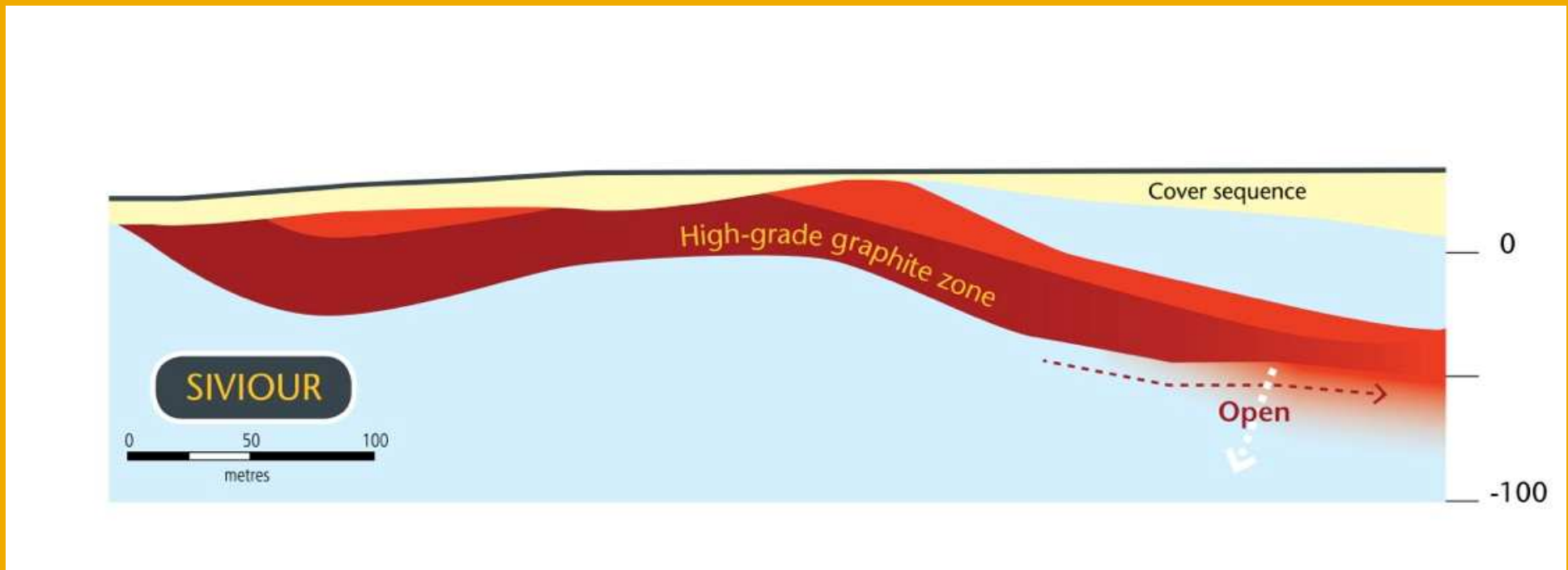
Fast payback



# Scoping study results -- OPEX



Siviour's flat laying orientation underpins a low cost of production . . .





# Scoping study results -- OPEX



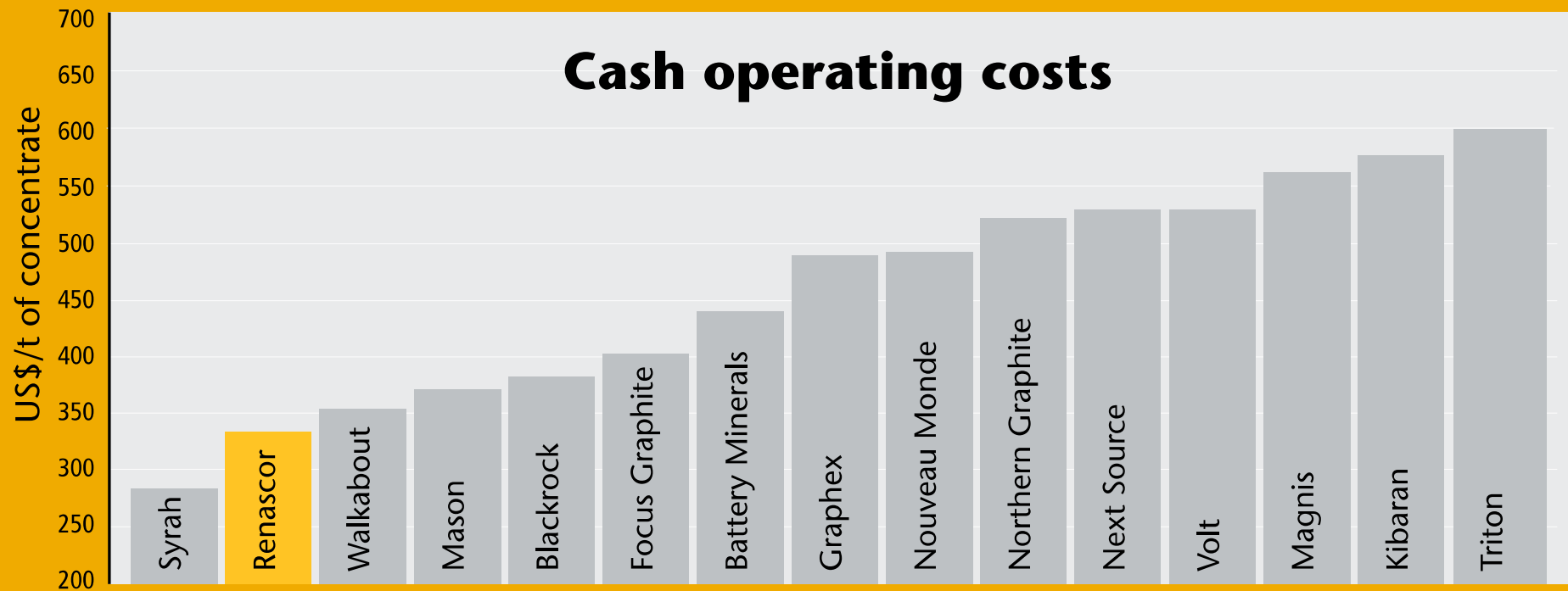
Siviour's flat laying orientation underpins a low cost of production . . .

Area	AU\$/year	AU\$/ tonne of concentrate	US\$/year	US\$/ tonne of concentrate
Mining and technical services	14.4m	117	10.7m	87
Processing and power	27.9m	224	20.6m	166
General and administration	2.4m	19	1.8m	14
Product logistics FOB	11.1m	90	8.2m	67
<b>Total</b>	<b>AU\$55.8</b>	<b>AU\$450</b>	<b>US\$41.2m</b>	<b>US\$333</b>

# Scoping study results -- OPEX



... that is among the lowest of global graphite developments



Note: Cash cost of production (FOB) per tonne of product  
Source: Company reports on economic studies of flake graphite projects

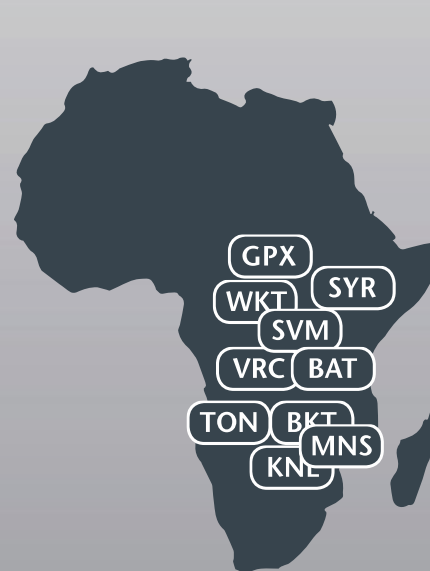
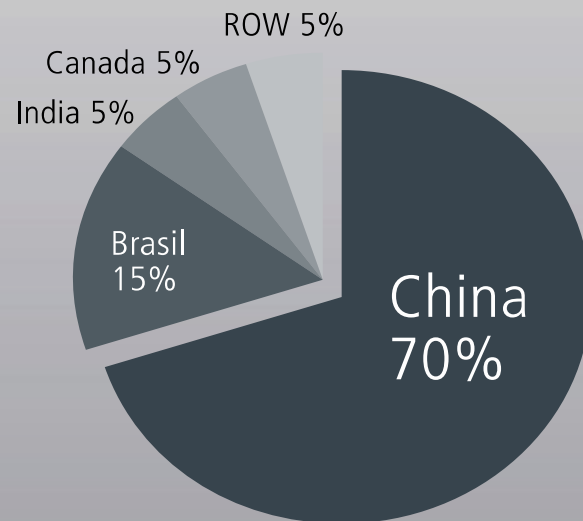
# Why graphite in Australia?



## Graphite market needs secure supply

China dominates current supply

Significant emerging production from Africa

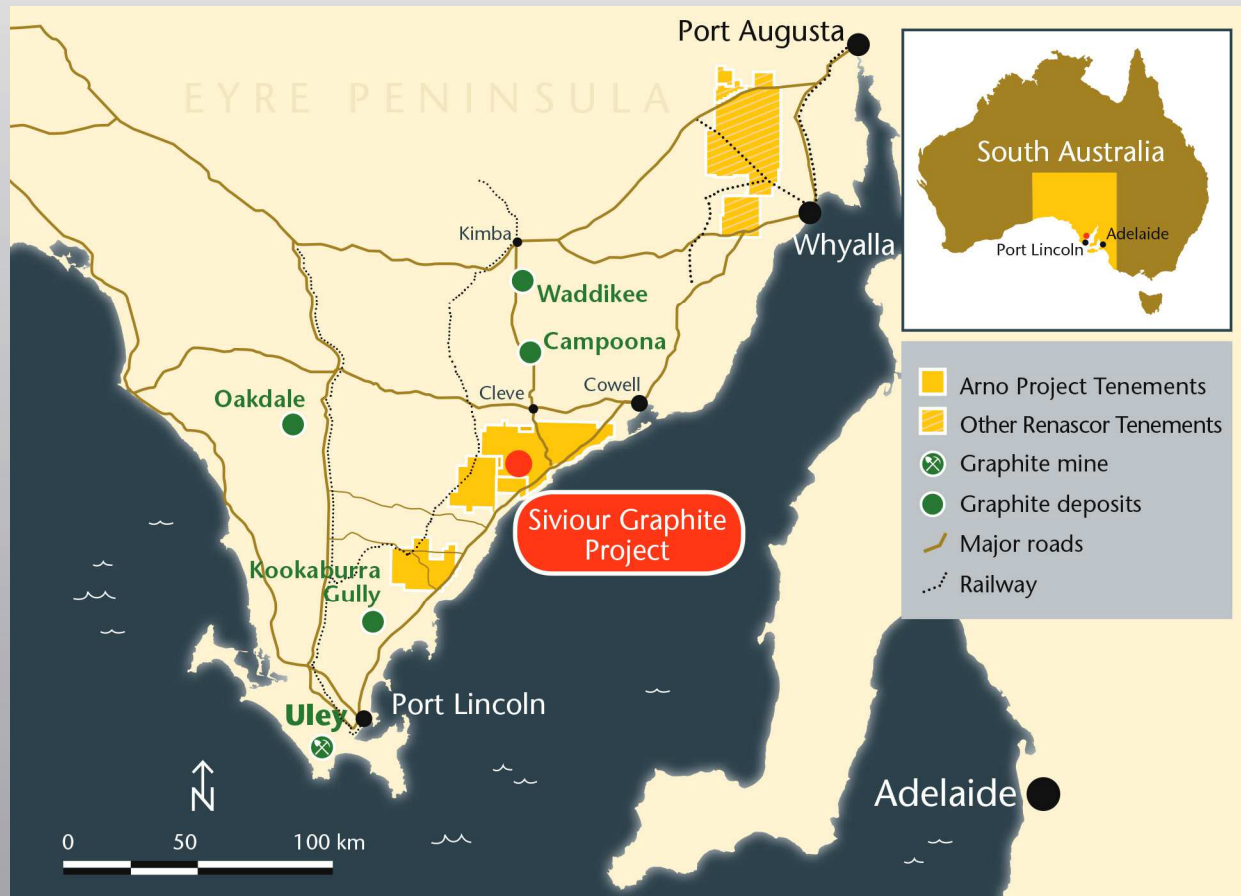


Source: Company data, Macquarie Research, November 2015

# Siviour – South Australia



Located centrally in an historical graphite corridor



Siviour graphite deposit, showing location and nearby graphite deposits

# Siviour – South Australia



## Optimal location for development and production

### Favourable jurisdiction

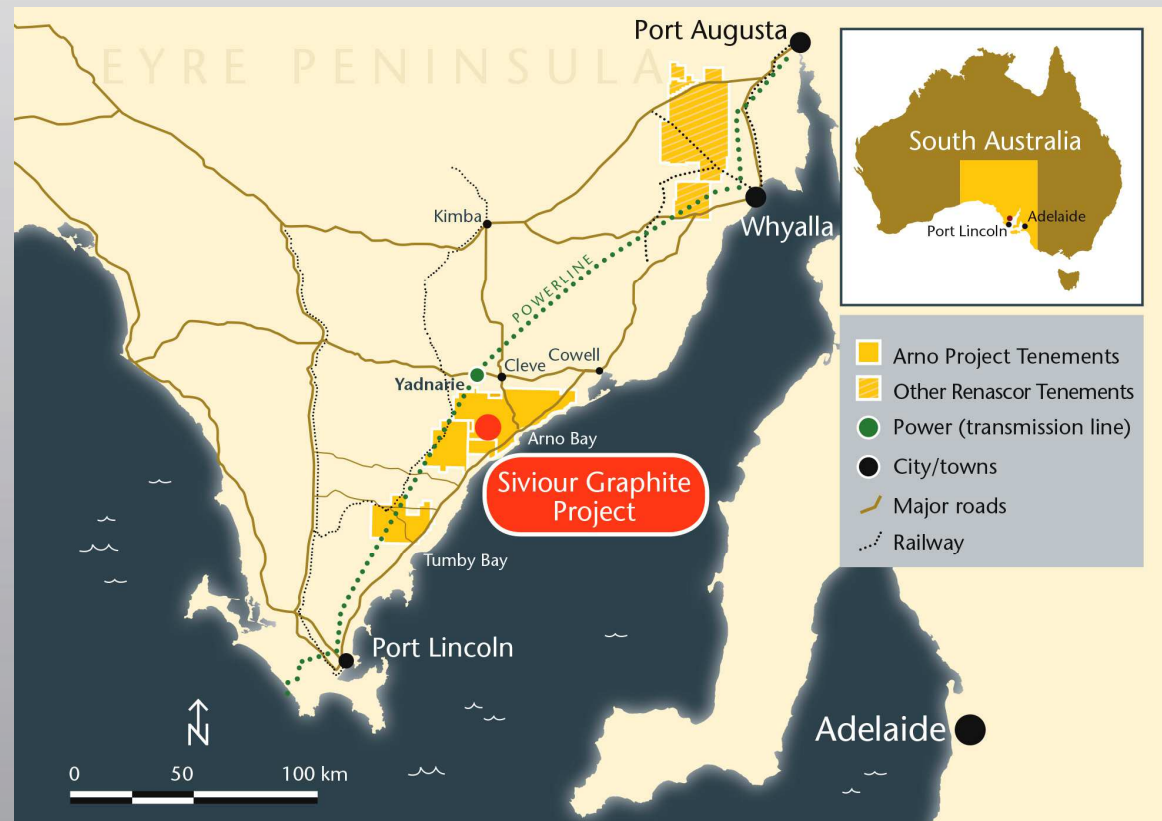
South Australia  
Supportive government  
Freehold land

### Infrastructure

Established ports  
Highway -- 10km  
Power – 14k from main grid

### Established workforce

Whyalla (23,000), Port Lincoln (15,000),  
Port Augusta (13,000)  
Arno Bay, Cleve, Cowell, Tumby Bay

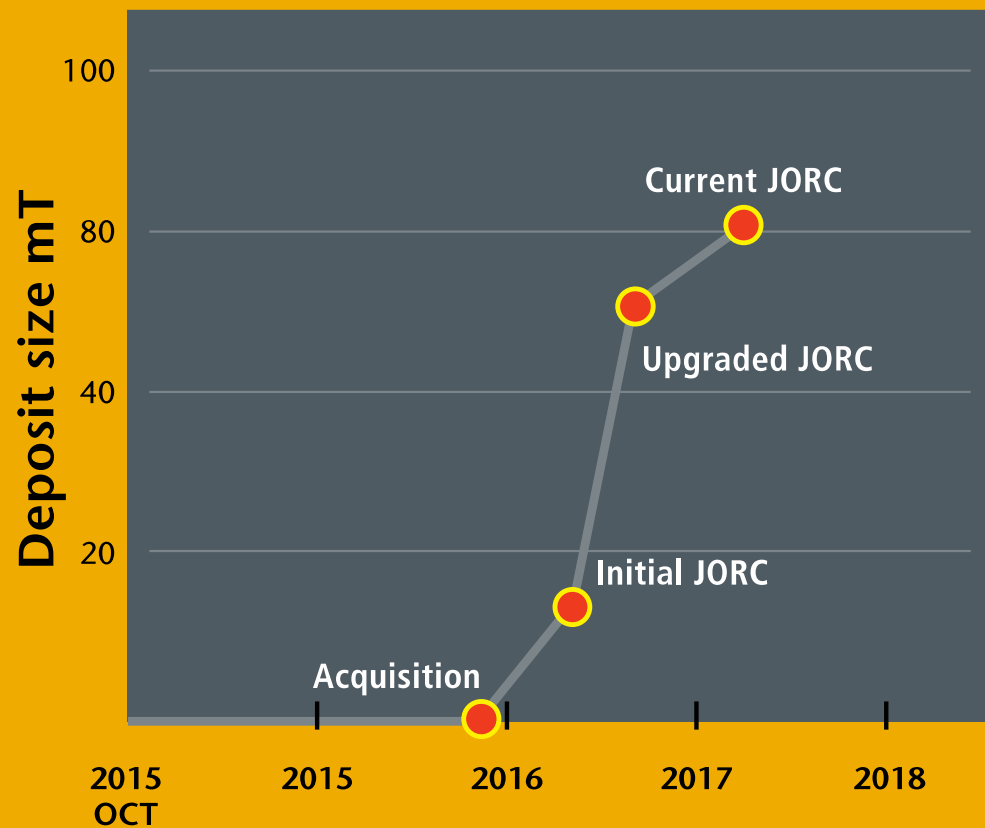


Eyre Peninsula: established infrastructure

# The Siviour graphite deposit



Siviour has rapidly transitioned from discovery to development



## Acquisition:

Renascor has an option to acquire 100% of company holding Siviour at definitive feasibility stage by issuing 22% of shares in listed vehicle

## Current upgraded JORC

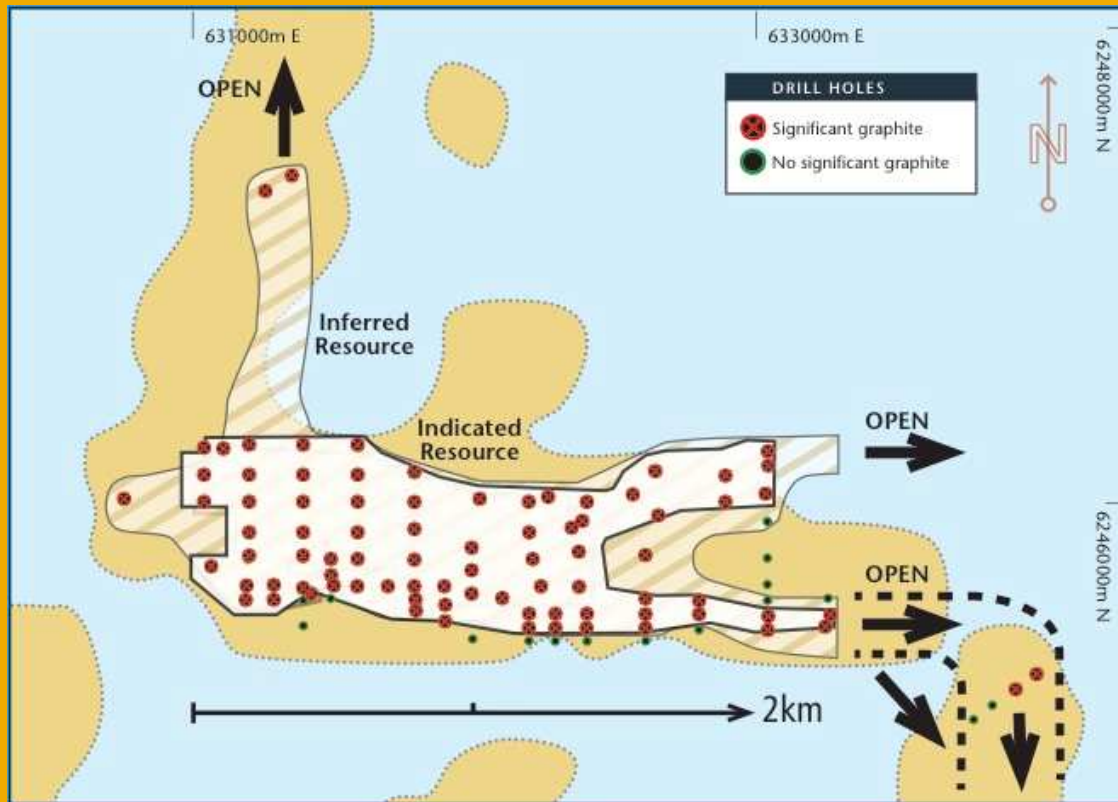
**Resource** (March 2017):  
80.6mT @ 7.9% TGC for 6.4mT of contained graphite.



# The Siviour graphite deposit



The Siviour Mineral Resource is already large and remains open along-strike at shallow depths



Category	Mineralisation (Mt)	TGC	Contained graphite (Mt)
Indicated*	51.8	8.1%	4.2
Inferred*	21.8	7.6%	2.2
Total*	80.6	7.9%	6.4

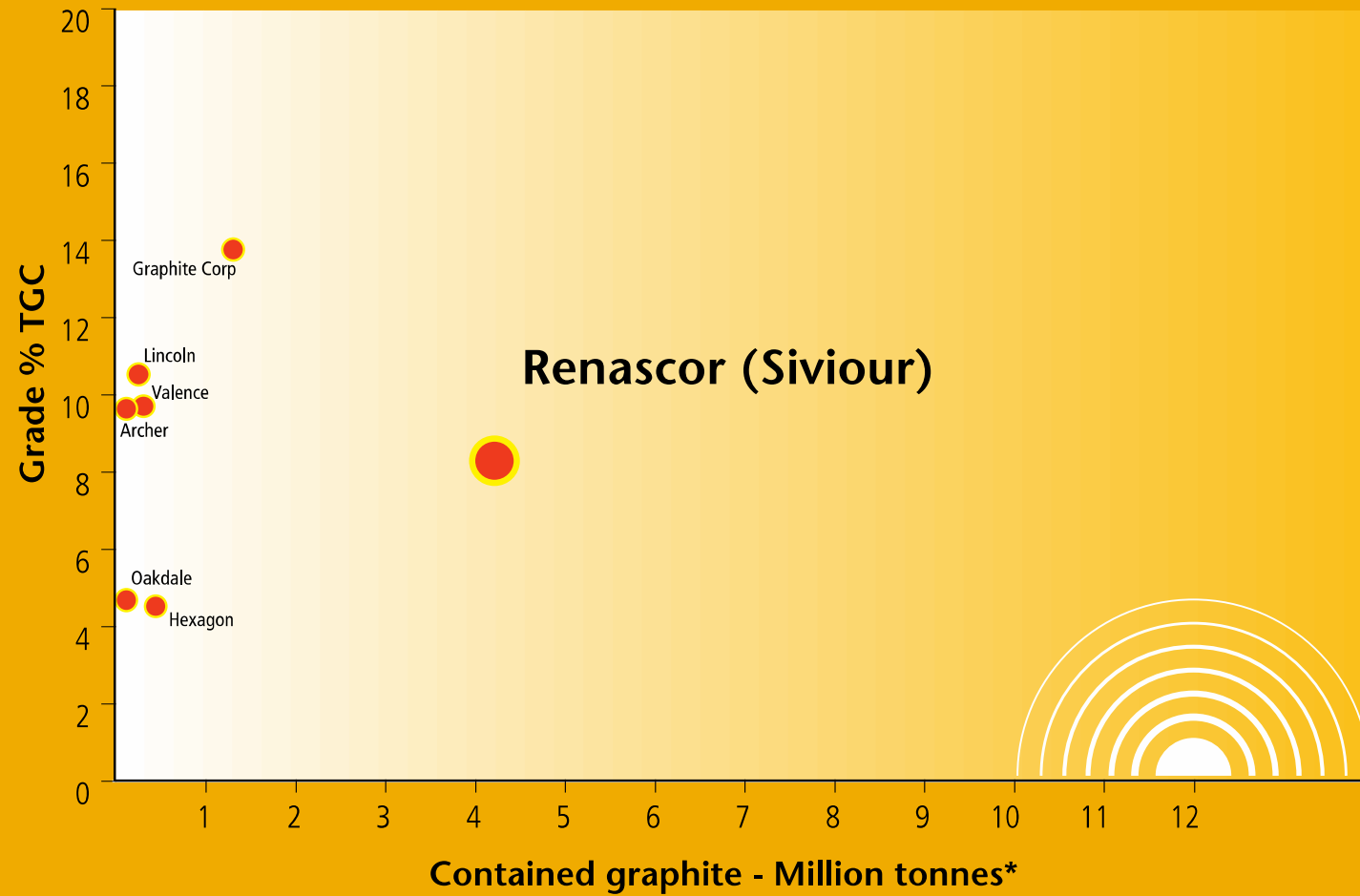
Siviour Indicated Resource over AEM conductive zones



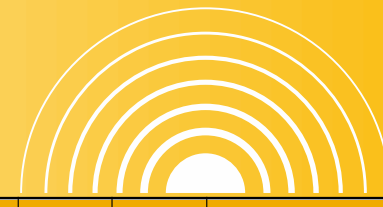
# Siviour – global scale



Siviour is the largest graphite deposit in Australia . . .



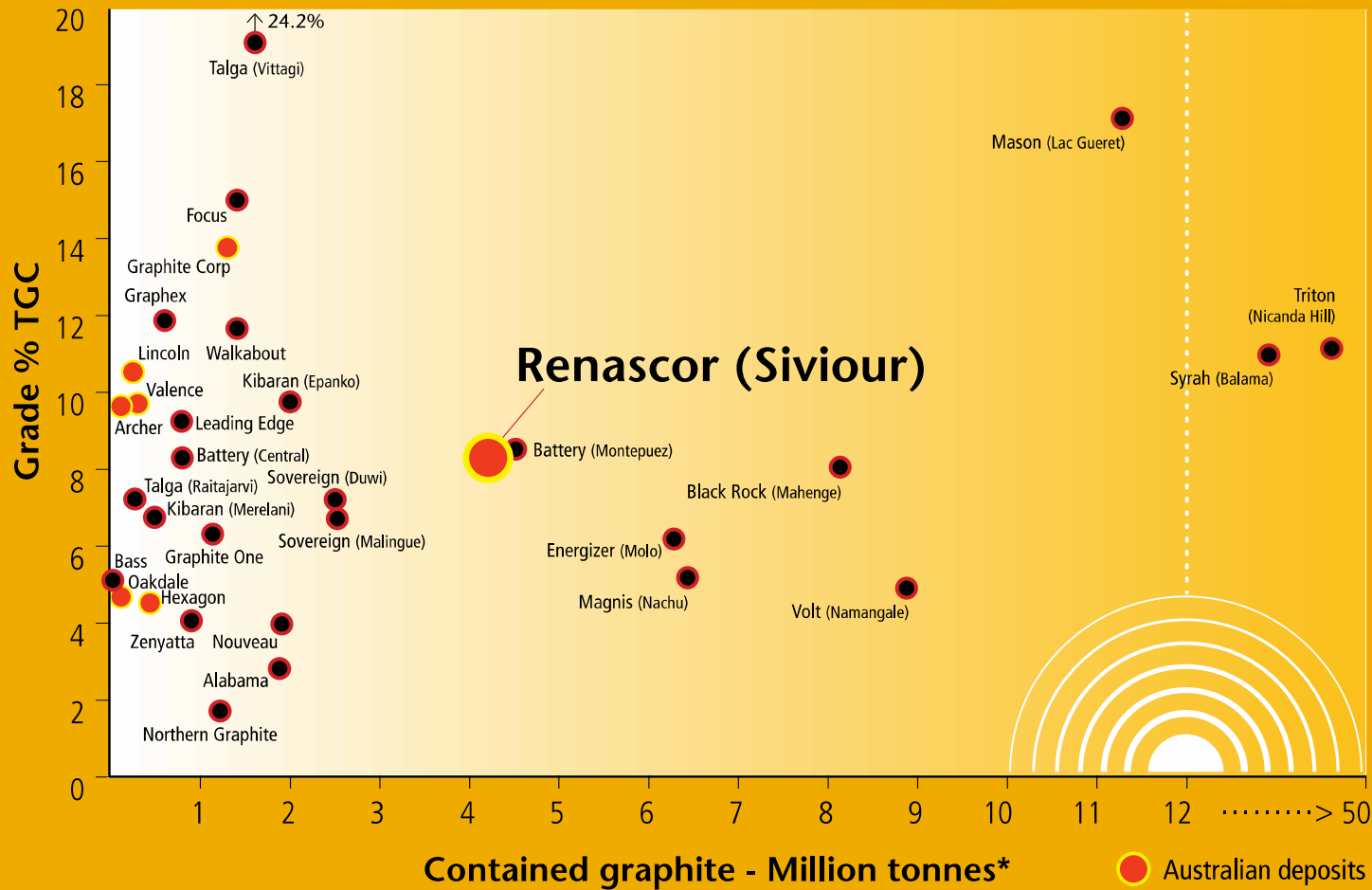
\* Sum of Indicated and Measured Resources



# Siviour – global scale



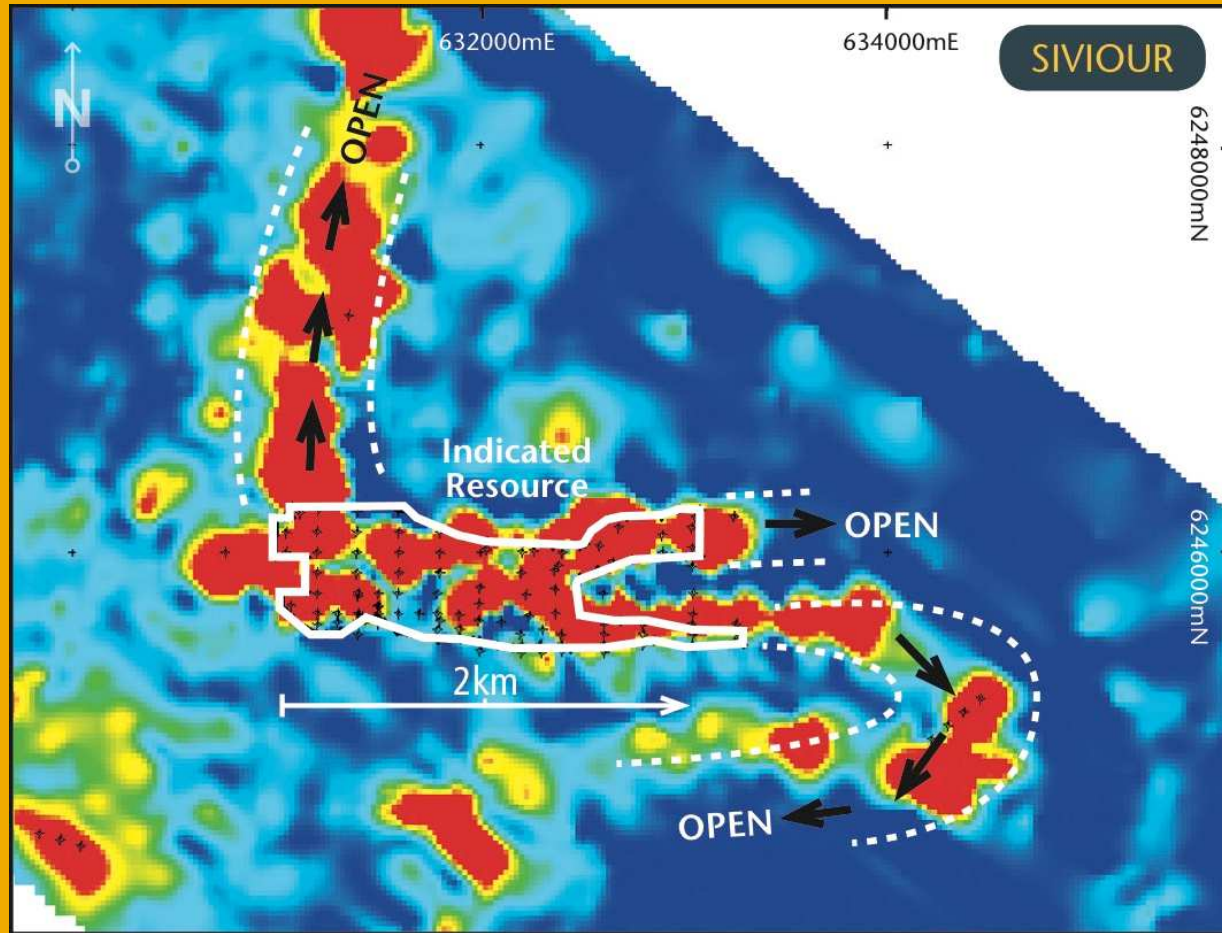
... and is among the largest reported graphite projects in the world ...



# Siviour – global scale



... and offers ample scope to expand

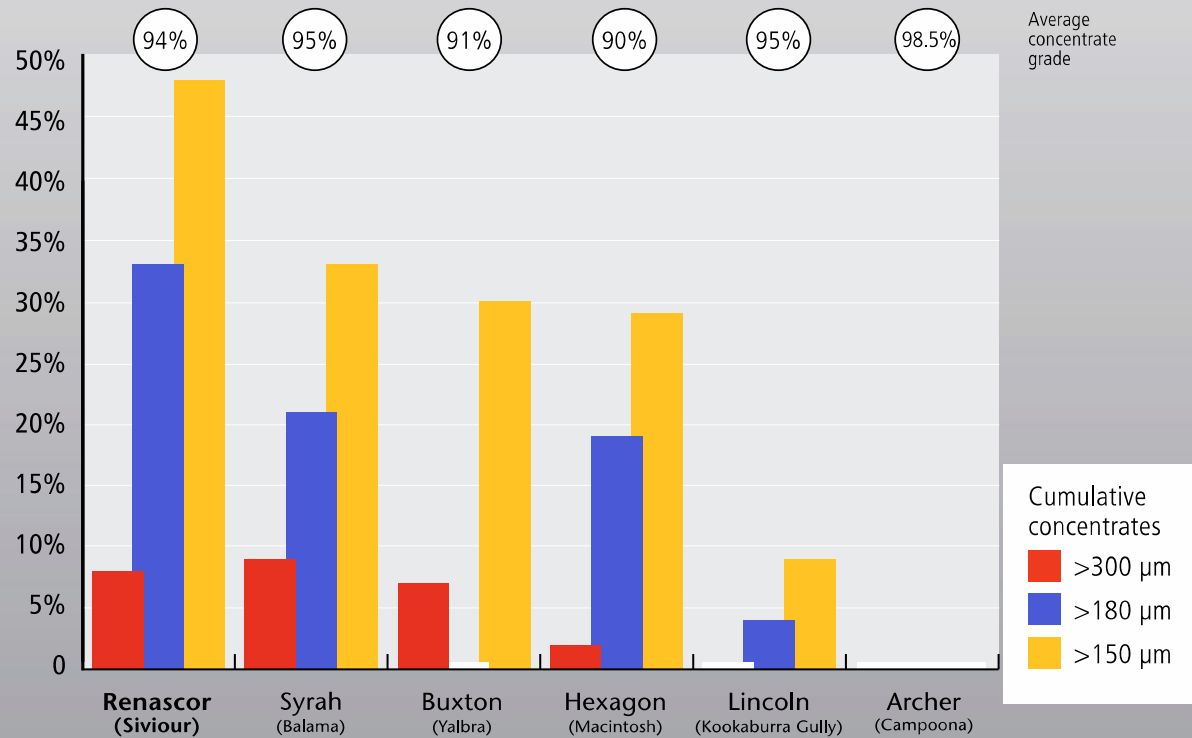


Siviour Indicated Resource over AEM conductive zones

# Siviour – metallurgy



Scoping Study level metallurgical testing has established Siviour as unique in the region . . .

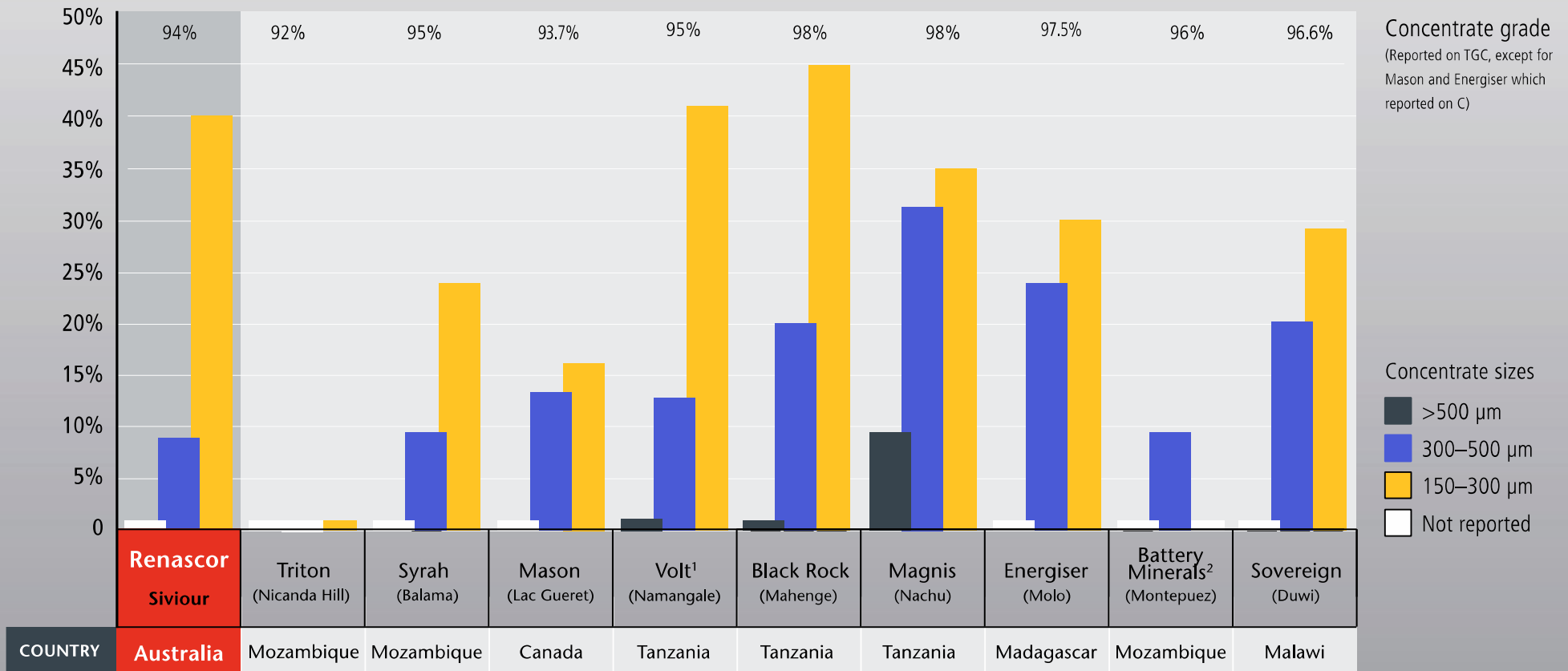


Flake category	Particle size		Forecast price (FOB US\$)	Distribution
	Microns	Mesh		
Jumbo	>300	+48	2,100/t	8%
Large	180 to 300	-48 to +80	1,450/t	25%
Medium	150 to 180	-80 to +100	1,150/t	15%
Small	75 to 150	-100 to +200	750/t	39%
Fine	<75	-200	425/t	13%

# Siviour – metallurgy



... offering potential to produce concentrates competitive with largest graphite resources in the world ...



<sup>1</sup> Results reported for Namangale 1 (North)

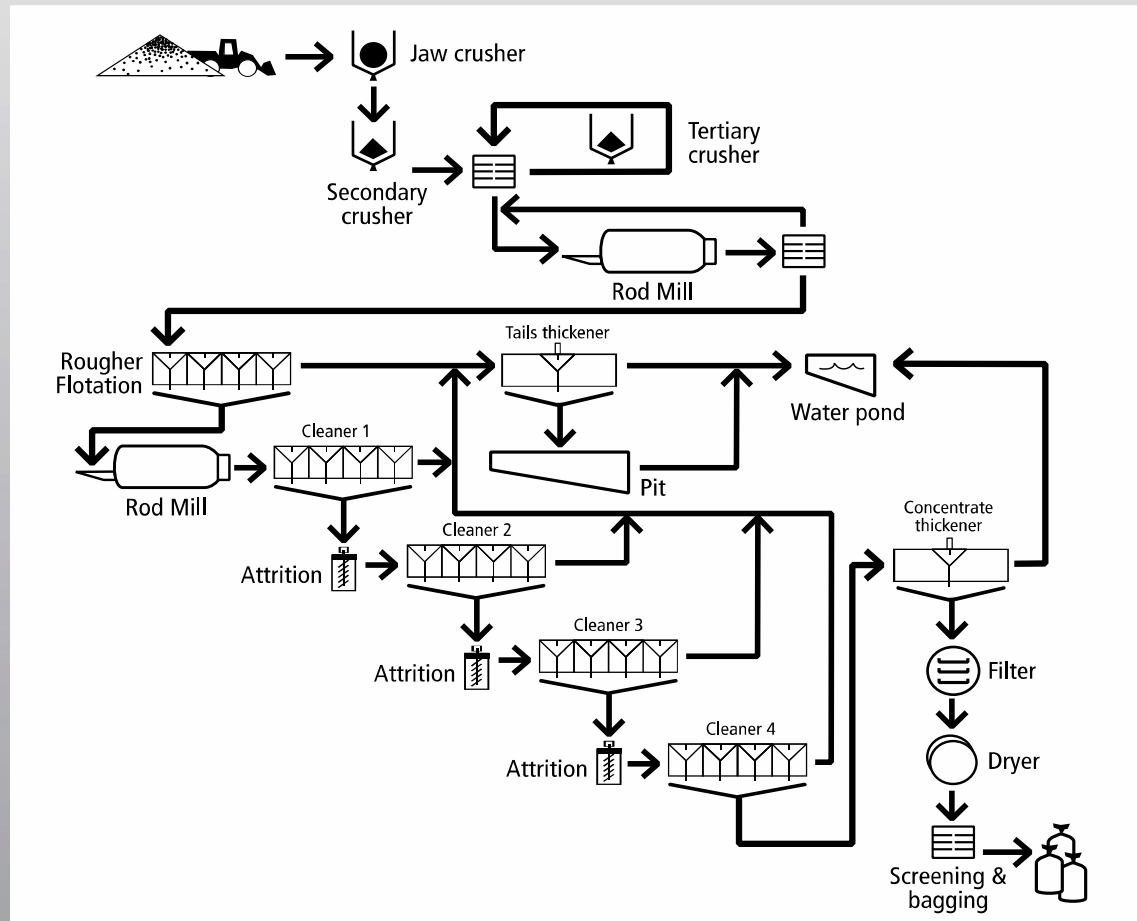
<sup>2</sup> Battery Minerals reports 32% between 106 and 180 microns



# Siviour – flowsheet



... with conventional (non-chemical, non-thermal) flowsheet



# Siviour – downstream processing potential



**Siviour is well-positioned to produce premium-priced, valued-added graphite products**

## Ultra high purity

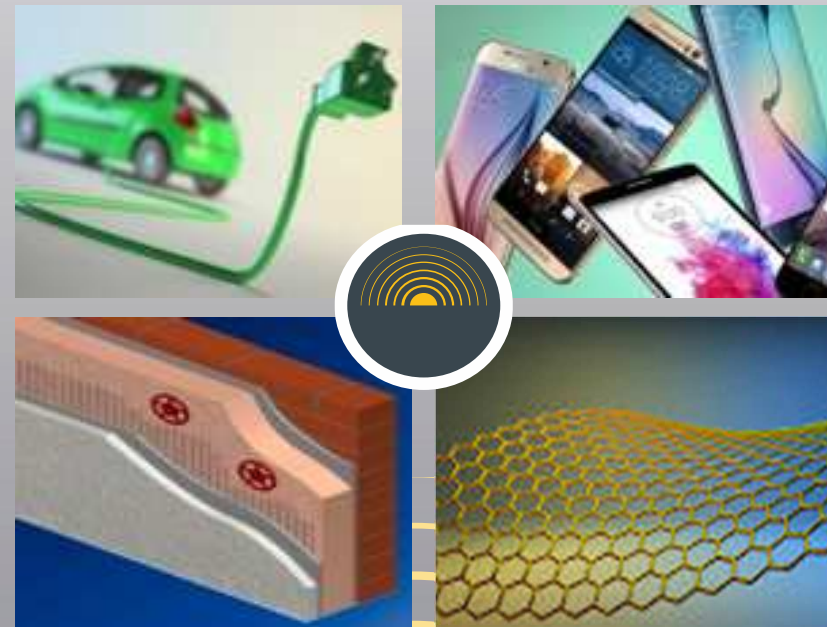
Purity levels in excess of 99% TGC have been achieved through one additional re-grind and flotation circuit

## Located proximate to modern industrial zones

Siviour's South Australian location offers easy access to established industrial centres for advanced processing

## Downstream testing underway

Valued-added test work to include spherical graphite testwork for lithium-ion battery anode suitability and development of expandable graphite products



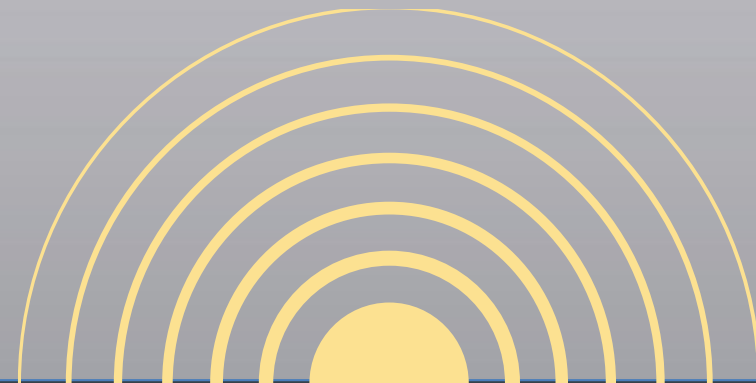
# Renascor market information



<b>ASX code</b>	RNU
<b>Shares currently on issue</b>	483m
<b>Options</b> (\$0.05, expiring Dec 2019)	15m
<b>Cash</b> (31 Mar 17)	\$1.7m
<b>Share price</b> (19 May 17)	\$0.019
<b>12 month range</b>	\$0.016-\$0.060
<b>Market cap</b>	\$9m
<b>Top 20</b> (19 May 17)	46%
<b>Board shareholding</b> (19 May 17)	26%



Board of Directors
Richard (Dick) Keevers (Chairman)
David Christensen (MD)
Stephen Bizzell
Geoff McConachy
Chris Anderson
Andrew Martin

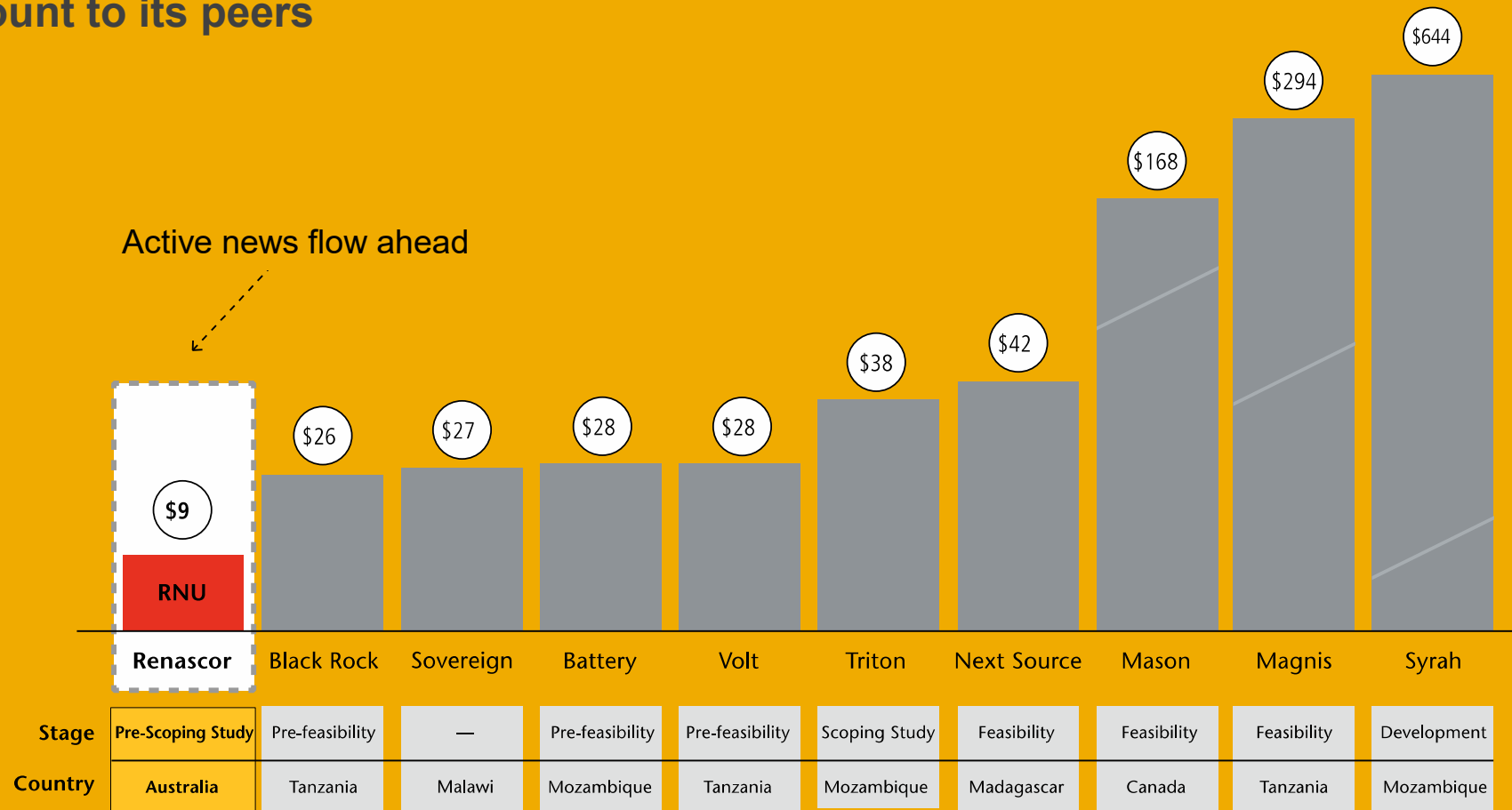


# Re-rating potential



Renascor currently trades at a discount to its peers

Market capitalisation (A\$M)



Source: ASX and TSX data as of 19 May 2017

# Forward plan and news flow



# Conclusions



**Siviour has potential to become a Tier 1 graphite mine**

Globally competitive project economics

Diversity of supply from Australia

Large-scale, long-life

High quality graphite concentrates at low cost





Thank you

