

5 December 2023

**Presentation – 10<sup>th</sup> ABEC Advanced Batteries Conference, Shenzhen, China**

St George Mining Limited (ASX: **SGQ**) is participating in the 10<sup>th</sup> ABEC Advanced Batteries Conference being held in Shenzhen, China from 4 to 6 December 2023.

A copy of the Presentation to be given today to the Conference by John Prineas, Executive Chairman is attached.

Authorised for release by the Board of St George Mining Limited.

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*The 10<sup>th</sup> ABEC, Advanced Batteries  
for xEV/ESS Conference  
Shenzhen, China*

*4-6 December 2023*



**ST GEORGE**  
MINING LIMITED

***Lithium Opportunities in Western Australia***

***The World's No. 1  
Hard-Rock Lithium Address***

**ST GEORGE MINING LIMITED**  
ACN 139 308 973 | ASX: SGQ

# Lithium Supply Chain

## Western Australia dominates upstream supply chain

- 50% of global lithium production is from Western Australia
- 98% of Australian lithium is exported to China

Total production in Australia of 405,000t LCE\*

## China dominates the downstream supply chain

- 60% of lithium processing capacity
- 65% of lithium-ion battery component manufacturing
- 77% of battery manufacturing

Source: Department of Industry, Science and Resources, September 2023

\* estimated from Financial Year (ending 30<sup>th</sup> June) 2023 Annual Reports

## Australia's lithium sector



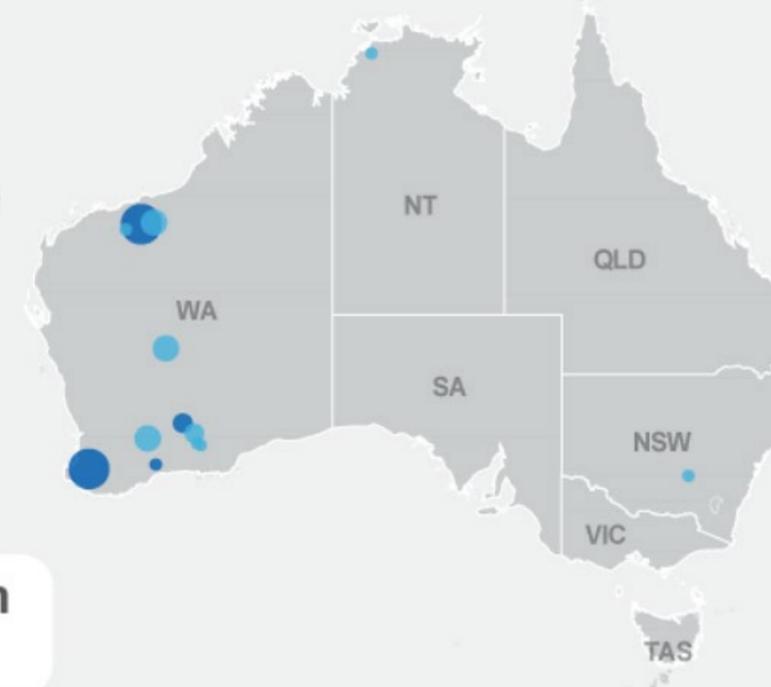
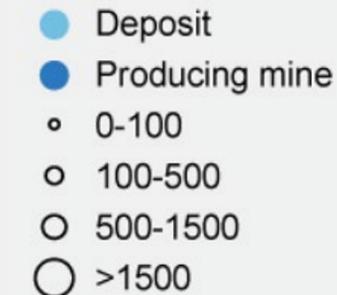
**98%**  
of spodumene  
exported to China,  
2022-23



**50%**  
of global lithium  
extraction, with 2nd  
most resources



**6%**  
of refining could be  
in Australia by  
2025, ranking 4th



Major lithium  
deposits, Kt

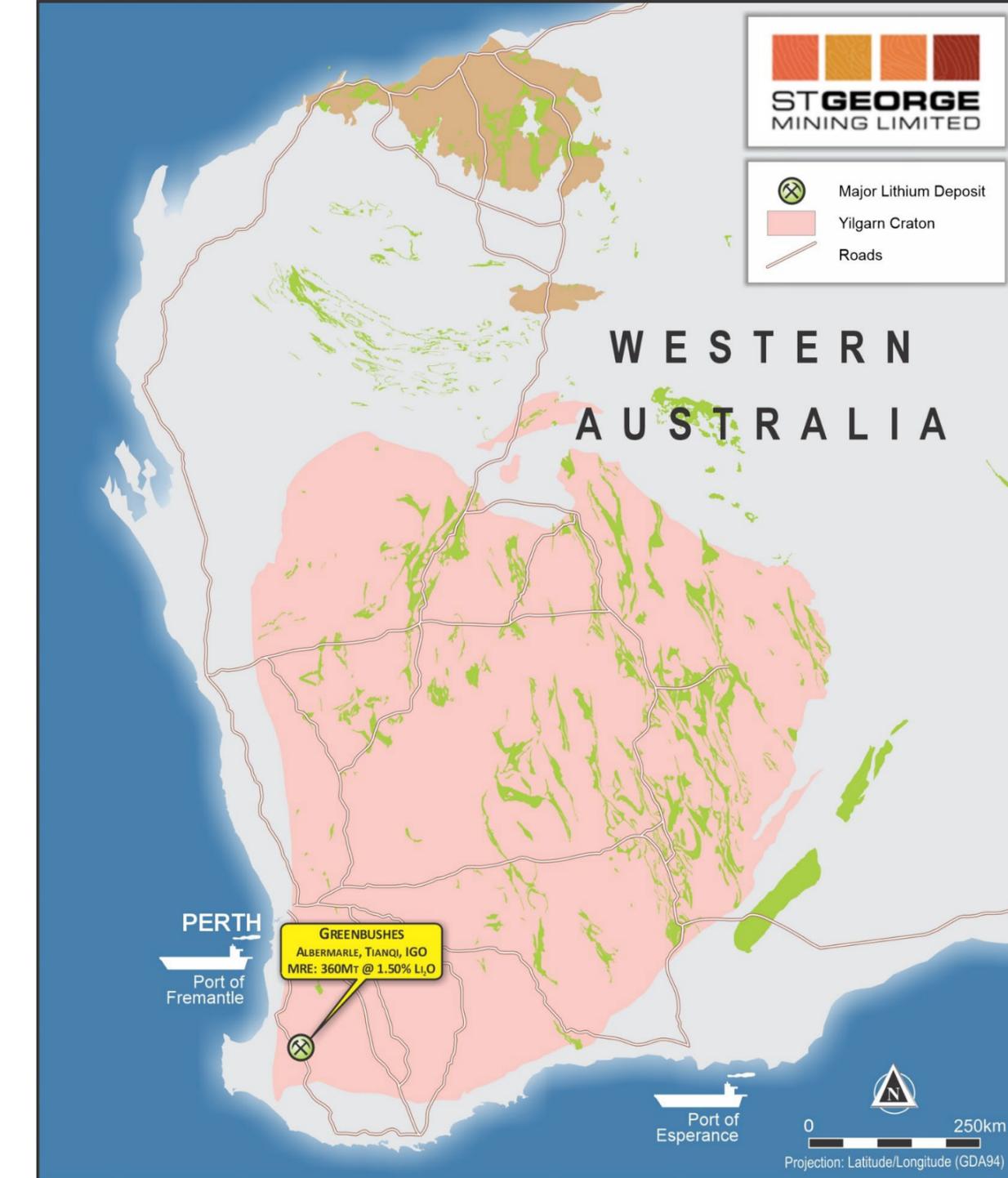
**STGEORGE**  
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# Lithium in Australia: 2010

Only one producing mine in 2010

- Greenbushes – 347 Mt @ 1.5% Li<sub>2</sub>O mineral resource (as at 31 Dec 2022)
- In 2010, Greenbushes produced 90% of global production; today Greenbushes produces 25% of global production
- Ownership: 49% Albemarle: 51% Tianqi JV (26% Tianqi, 25% IGO)

Source: Australian Institute of International Affairs



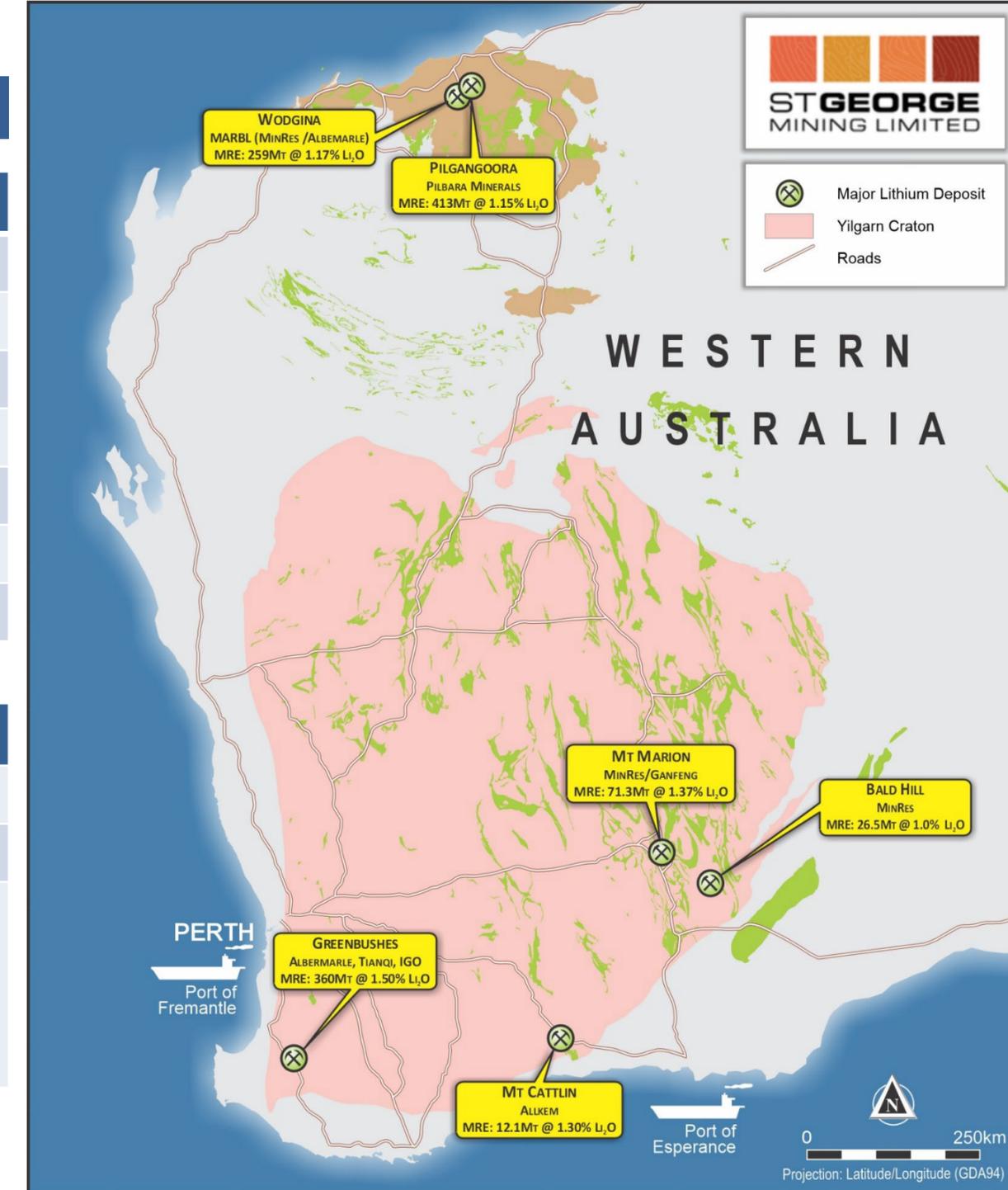
# Lithium in Australia: 2023

## Six producing mines in Western Australia

Mine	Product	Ownership	FY 2022 (LCE)	FY 2023 (LCE)
Greenbushes	SC 5.5% average assumed	ALB 49%, Tianqi/IGO JV 51%	154,000 t	203,000 t
Wodgina	SC 6.0% equivalent shipped	MIN 50%, ALB 50%	6,300 t	53,000 t
Mount Marion	SC 6.0% equivalent shipped	MIN 50%, Ganfeng 50%	45,000 t	44,000 t
Mount Cattlin	SC 5.6% in FY22, 5.3% in FY23	AKE 100%	27,000 t	17,000 t
Bald Hill	5.5% SC	Acquisition by MIN in progress	private	
Pilgangoora	SC 5.5% average assumed	PLS 100%	49,000 t	84,000 t
Finniss, Northern Territory	DSO + SC 5.4%	CXO 100%	n/a	3,000 t

Refinery	Product	Ownership	FY 2022 (LCE)	FY 2023 (LCE)
Kwinana	Lithium Hydroxide	Tianqi 51%, IGO 49%	77 t	1,700 t
Kemerton	Lithium Hydroxide	ALB 100%	n/a	10,100 t

Source: annual reports; FY = financial year ending 30<sup>th</sup> June; LCE = Lithium Carbonate Equivalent; n/a = commercial production not reached; SC = Spodumene Concentrate; DSO = Direct Shipping Ore. ASX: AKE = Allkem Limited; NYSE: ALB = Albermarle Corporation; ASX: CXO = Core Lithium Ltd; Ganfeng = Ganfeng Lithium Group Co. Ltd (SZSE: 2460); ASX: IGO = IGO Limited; ASX: MIN = Mineral Resources Ltd; ASX: PLS = Pilbara Minerals Ltd; Tianqi = Tianqi Lithium Corporation (SZSE: 2466)



# Lithium Growth Projects in Western Australia

## Two projects currently in construction

- Expected to be in production by 2024/2025:
  - Kathleen Valley (Liontown Resources – ASX: LTR) – 74,000 tpa LCE in Spodumene Concentrate
  - Mt Holland + Kwinana Refinery (SQM 50%/WES 50%) – 50,000 tpa LiOH (or 44,000 tpa LCE)

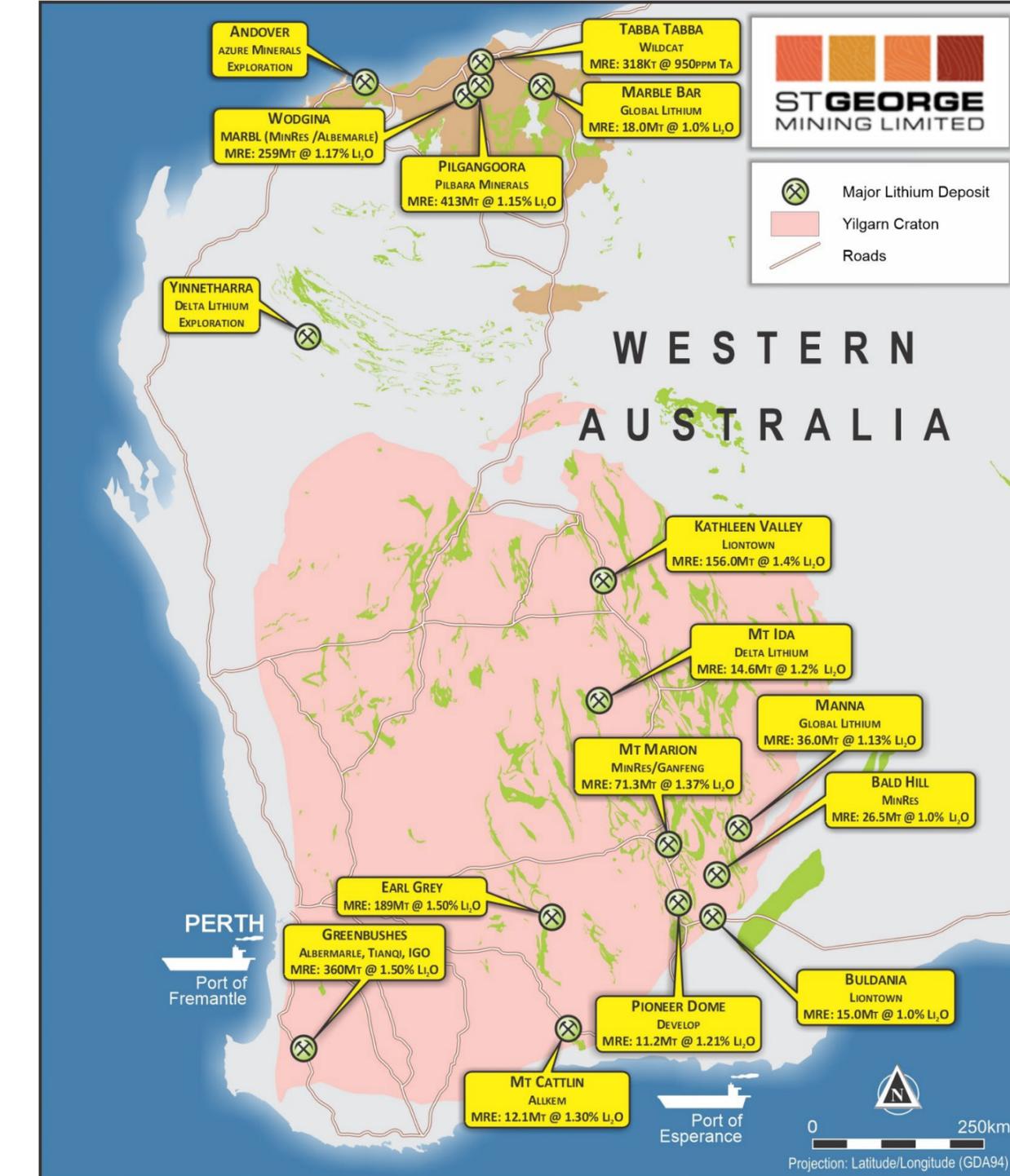
## Other projects in mineral resource development and evaluation

- Additional 7 projects with a JORC compliant mineral resource
- Further 3 projects with discoveries that are likely to deliver substantial JORC compliant mineral resources, but more than 5 years to first production:
  - Andover (Azure Minerals Ltd – ASX: AZS)
  - Tabba Tabba (Wildcat Resources – ASX: WC8)
  - Yinnetharra (Delta Lithium – ASX: DLI)

*tpa = tonnes per annum*

*NYSE: SQM = Sociedad Química y Minera de Chile S.A.*

*ASX: WES = Wesfarmers Limited*



# Strong Lithium Discovery Potential Today

## Azure Minerals Ltd (ASX: AZS)

<b>Date of discovery</b>	<b>13 February 2023</b>
<b>Share price at discovery</b>	<b>A\$0.33</b>
<b>Market capitalisation at discovery</b>	<b>A\$100 million</b>
<b>Share price today</b>	<b>A\$4.00</b>
<b>Market capitalisation today</b>	<b>A\$1.9 billion</b>
<b>Target size of mineral resource</b>	<b>200 million tonnes</b>

## Wildcat Resources Ltd (ASX: WC8)

<b>Date of project acquisition</b>	<b>17 May 2023</b>
<b>Share price at acquisition</b>	<b>A\$0.035</b>
<b>Market capitalisation at acquisition</b>	<b>A\$23 million</b>
<i><b>Discovery on 18 September 2023</b></i>	
<b>Share price today</b>	<b>\$0.80</b>
<b>Market capitalisation today</b>	<b>A\$820 million</b>
<b>Target size of mineral resource</b>	<b>+100 million tonnes</b>

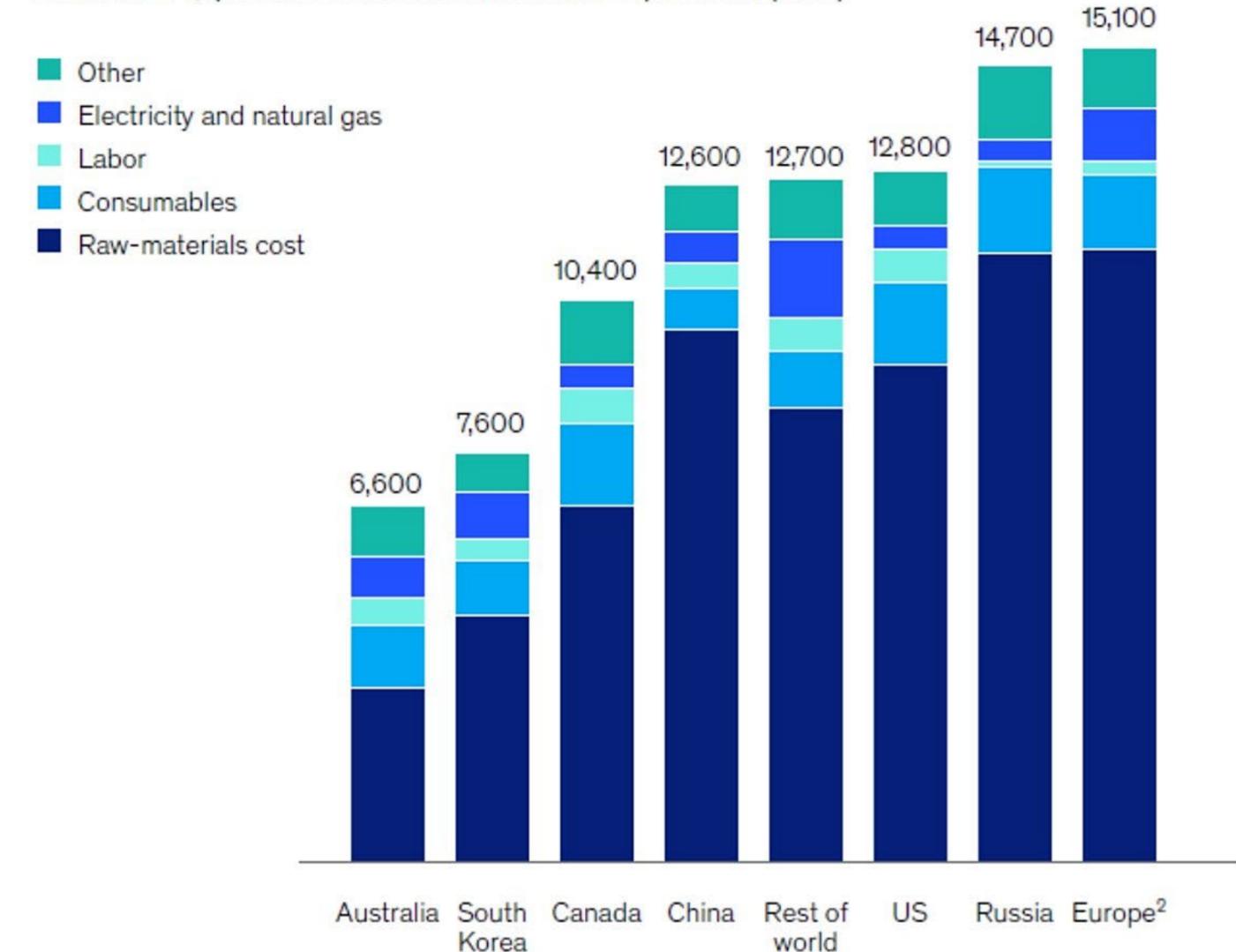
# Downstream Processing Opportunity in WA

## Only two conversion facilities in operation

- **Lithium hydroxide plant in Kwinana (south of Perth):**
  - Owned by Tianqi 51% and IGO 49%
  - 96,000 tpa LiOH planned capacity, but still progressing with ramp-up of Train 1 (24,000 tpa LiOH capacity)
- **Lithium hydroxide plant in Kemerton (near Bunbury):**
  - Owned by Albemarle 100%
  - 11,500t LiOH produced in FY2023
- **Australia has potential to be the lowest cost producer of lithium hydroxide by:**
  - establishing integrated operations – creating substantial savings in transport and raw material costs
  - using readily available low-cost renewable energy

Integrated Australian participants can produce lithium hydroxide at about 52 percent of the cost for the rest of the world.

Weighted average cost breakdown for lithium hydroxide (LiOH) refining facilities, 2030,<sup>1</sup>  
Real 2023 \$ per ton of lithium carbonate equivalent (LCE)



Source: McKinsey

# St George Mining – Lithium Strategy

## Discovery focus:

- **Exploration for the discovery of major hard-rock lithium deposits with more than 30 million tonnes in mineral resources**

## Target areas:

- **LCT (lithium-caesium-tantalum) corridors along strike from lithium mines and deposits**

## Corporate:

- **Attract investment from global battery players with a long-term vision, and ongoing support for exploration and development**



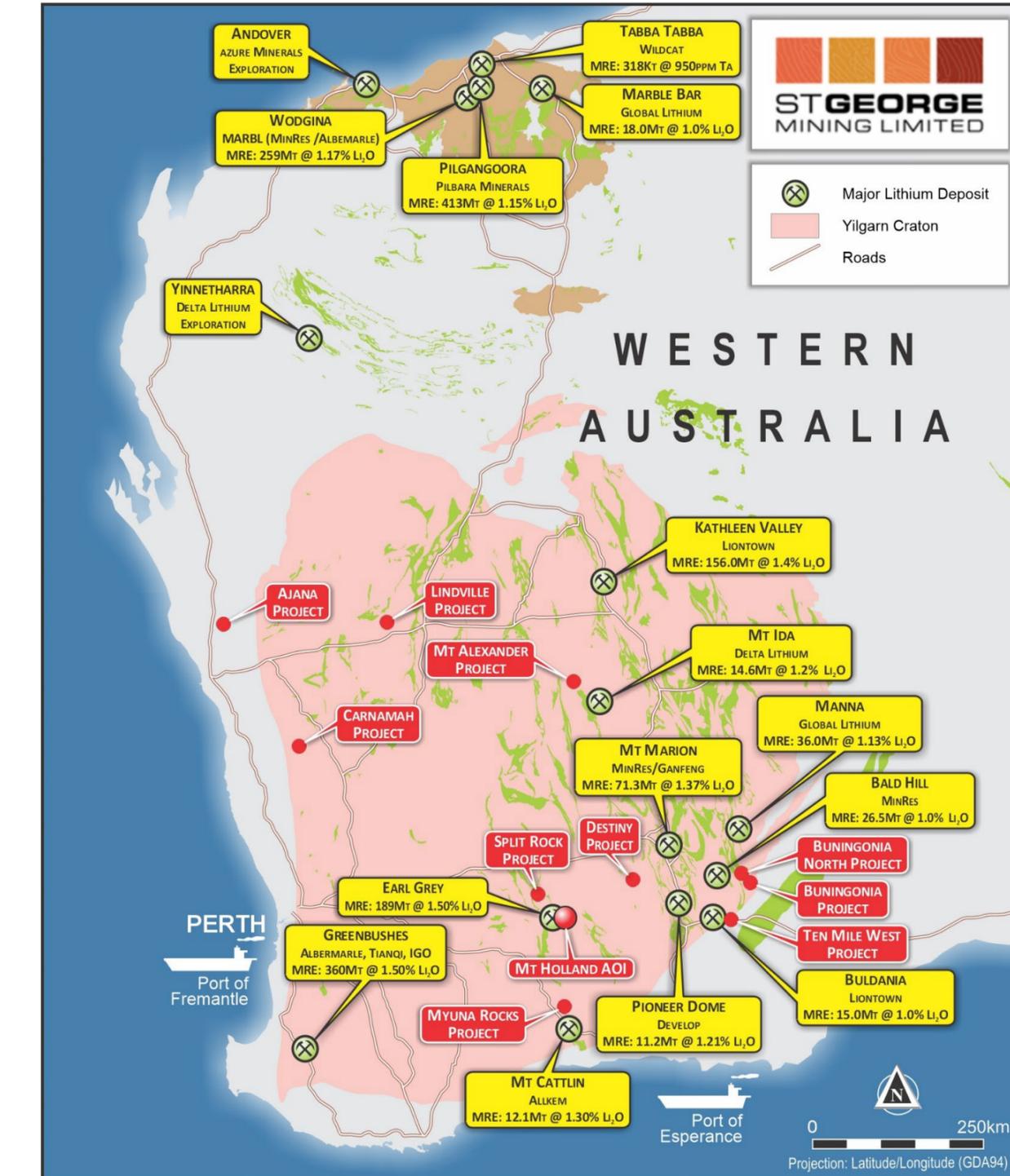
# St George Mining – Lithium Projects in WA

Multiple lithium projects located in Western Australia – the world’s best hard-rock lithium address

- **Total landholding of:**
  - 3,137 km<sup>2</sup> of granted exploration licences (37 EL)
  - 5,733 km<sup>2</sup> of exploration licences in application (29 ELA)
- **New projects added in 2023:**
  - Lithium Star portfolio of 7 projects (in joint venture with Amperex Technology Limited, which holds 10%)
  - Destiny Project covering +90km strike of the Ida Fault
- **Most St George projects are in the ‘lithium super province’ – located near spodumene producing mines and/or lithium deposits in development**

EL = Exploration Licence; ELA = Exploration Licence Application

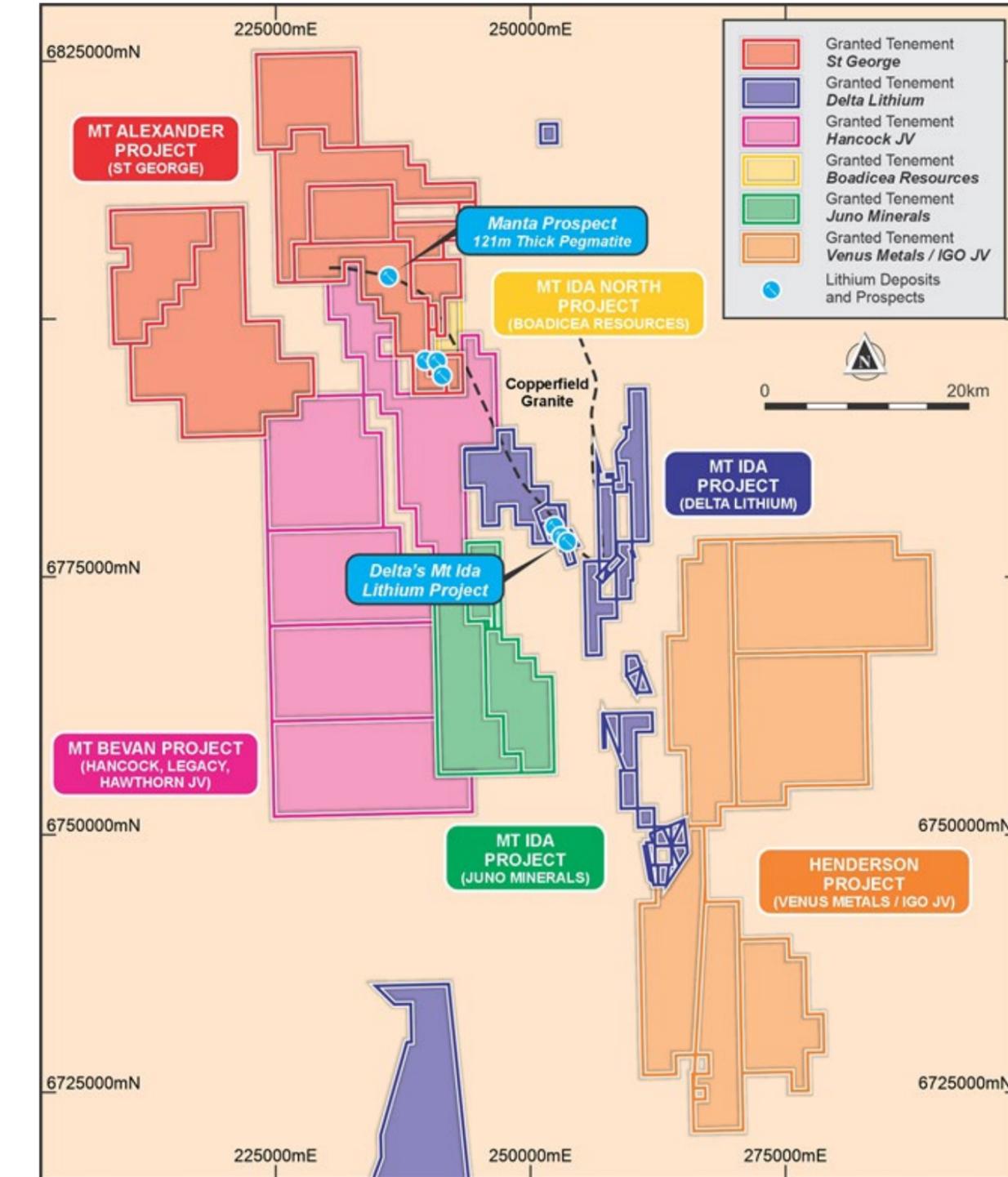
Right: St George projects shown by red labels



# Mt Alexander Project

## Strategic landholding in underexplored lithium province

- St George holds a large part of the new Mt Ida Lithium Province including +16km contact with the Copperfield Granite (source of lithium bearing pegmatites)
- Results in 2023 confirm a lithium bearing pegmatite system with:
  - high-grade lithium up to 1.8%  $\text{Li}_2\text{O}$  from surface to vertical depths of 300m
  - flat-lying pegmatites up to 121m thick intersected at the Manta Prospect
- Exploration continuing to discover the potential extensions of the pegmatite system
- Active exploration by major mining companies on adjacent ground:
  - Hancock Prospecting at the Mt Bevan Joint Venture (in JV with Indian Government controlled Legacy Iron, ASX: LCY)
  - Mineral Resources (ASX: MIN) is a 19.1% shareholder of Delta Lithium (ASX: DLI) which has a mineral resource of 14.6Mt @ 1.2%  $\text{Li}_2\text{O}$  at the Mt Ida lithium project
  - IGO (ASX: IGO) is in joint venture with Venus Metals (ASX: VMC) at the Henderson project



# Corporate Overview

<b>Market Cap (4 Dec 2023)</b>	<b>Listed Shares</b>
<b>A\$36m</b>	<b>984,086,562</b>
<b>Top 20 shareholders</b>	<b>Listed Options</b>
<b>40%</b>	<b>39,188,238</b>
<b>Directors &amp; Management</b>	<b>Share Price (4 Dec 2023)</b>
<b>3.5%</b>	<b>A\$0.036</b>
<b>Cash (30 Sep 2023 plus new equity)</b>	<b>Debt</b>
<b>A\$8.3m</b>	<b>Nil</b>

## Key shareholders

**Shanghai Jayson New Energy Materials Co., Ltd (11.73%)**  
**Amperex Technology Limited (10% of Lithium Star Pty Ltd)**  
**Sunwoda Electronic Co., Ltd**

## Pre-Mineral Resource Lithium Companies

Code	Company	Market Cap.	Key Lithium Project
AZS	Azure Minerals Ltd	A\$1,858m	Andover
WC8	Wildcat Resources Ltd	A\$968m	Tabba Tabba
LPM	Lithium Plus Minerals	A\$54m	Bynoe, Northern Territory
SGQ	St George Mining Ltd	A\$37m	Mt Alexander
TOR	Torque Metals Ltd	A\$22m	New Dawn
VMC	Venus Metals Corp. Ltd	A\$20m	Youanmi and Henderson JV
FTL	Firetail Resources Ltd	A\$15m	Yalgoo-Dalgaranga
L1M	Lightning Minerals Ltd	A\$7m	Dundas

# St George Mining – Leadership Team

Directors	Management
<p><b>John PRINEAS</b>, Executive Chairman – founder and major shareholder of St George. Prior to starting St George, John had senior roles in the banking and legal sectors, including the role of Country Head, Australia for a global investment bank (Dresdner Bank AG, now Commerzbank AG) with a focus on project and acquisition finance for resources and infrastructure projects.</p>	<p><b>Julian HANNA</b>, General Manager – Growth and Development – over 35 years experience in exploration, development, mining and corporate growth. Former Managing Director of nickel miner Western Areas and copper explorer MOD Resources Ltd, both delivering new discoveries and growth during his leadership.</p>
<p><b>John DAWSON</b>, Non-Executive Director – over 30 years in the finance and mining sectors where he occupied very senior roles with global investment banks Goldman Sachs and Dresdner Kleinwort Wasserstein.</p>	<p><b>Charles WILKINSON</b>, Technical Consultant – over 35 years as a geologist with 16 years at WMC including as Exploration Manager – Nickel and 9 years with Western Areas Ltd as General Manager Exploration.</p>
<p><b>Sarah SHIPWAY</b>, Non-Executive Director/Company Secretary – Chartered Accountant with extensive experience in advising listed exploration companies.</p>	<p><b>Dave MAHON</b>, Exploration Manager – joined St George in 2018 and has managed all exploration programs. Previously managed exploration at Northern Star Resources Ltd and Western Areas Ltd.</p>

# Discovery and growth opportunities across multiple projects



# Forward looking statements and disclosures

The information in this report that relates to Exploration Targets, Exploration Results, Mineral Resources or Ore Reserves is based on information compiled by Mr Dave Mahon, a Competent Person who is a Member of The Australian Institute of Geoscientists. Mr Mahon is a full-time employee of St George Mining Limited to provide technical advice on mineral projects and holds performance rights in the Company.

This ASX announcement contains information extracted from the following reports which are available on the Company's website at [www.stgm.com.au](http://www.stgm.com.au):

- 7 September 2022 Significant Lithium Potential at Mt Alexander
- 20 September 2022 Significant Expansion of Lithium Potential
- 12 October 2022 High-Grade Lithium Confirmed at Mt Alexander
- 4 November 2022 Drilling Intersects Pegmatites with Visible Lithium
- 21 December 2022 More Positive Lithium Results at Mt Alexander
- 6 February 2023 Lithium Exploration Commences at Mt Alexander
- 21 February 2023 Lithium Drilling Underway at Mt Alexander
- 29 March 2023 121 Metre Pegmatite Intersected at Mt Alexander
- 29 May 2023 Mt Alexander Lithium Exploration Update
- 5 July 2023 Lithium Results for Mt Alexander
- 8 August 2023 Acquisition of Strategic Lithium Projects
- 5 September 2023 Base Metals Discovered at Ajana
- 11 September 2023 Exploration Commences at Woolgangie
- 17 October 2023 Investment by World Leader in Lithium-ion Batteries
- 18 October 2023 Lithium Exploration Underway at Mt Alexander
- 9 November 2023 Strategic Investment from Global battery Investor

The Company confirms that it is not aware of any new information or data that materially affects the exploration results included in any original market announcements referred to in this report and that no material change in the results has occurred. The Company confirms that the form and context in which the Competent Person's findings are presented have not been materially modified from the original market announcements.

## **Disclaimer**

Certain statements contained in this presentation, including information as to the future financial or operating performance of St George Mining Limited (ASX:SGQ) and its projects, are forward looking statements:

- may include, among other things, statements regarding targets, estimates and assumptions in respect of mineral reserves and mineral resources and anticipated grades and recovery rates, production and prices, recovery costs and results, capital expenditures, and are or may be based on assumptions and estimates related to future technical, economic, market, political, social and other conditions;
  - are necessarily based upon a number of estimates and assumptions that, while considered reasonable by St George Mining, are inherently subject to significant technical, business, economic, competitive, political and social uncertainties and contingencies; and
  - involve known and unknown risks and uncertainties that could cause actual events or results to differ materially from estimated or anticipated events or results reflected in such forward-looking statements.
- St George Mining disclaims any intent or obligation to update publicly any forward-looking statements, whether as a result of new information, future events or results or otherwise. The words “believe”, “expect”, “anticipate”, “indicate”, “contemplate”, “target”, “plan”, “intends”, “continue”, “budget”, “estimate”, “may”, “will”, “schedule” and similar expressions identify forward looking statements.

All forward looking statements made in this presentation are qualified by the foregoing cautionary statements. Investors are cautioned that forward looking statements are not guarantees of future performance and investors are cautioned not to put undue reliance on forward looking statements due to the inherent uncertainty therein.