

9 May 2023

**PRESENTATION – RIU RESOURCES CONFERENCE, SYDNEY**

St George Mining Limited (ASX: **SGQ**) is participating in the RIU Resources Conference being held in Sydney on 9, 10 and 11 May 2023.

A copy of the Investor Presentation for the Conference is attached.

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

**For further information, please contact:**

**John Prineas**  
Executive Chairman  
St George Mining Limited  
+61 411 421 253  
[john.prineas@stgm.com.au](mailto:john.prineas@stgm.com.au)

**Peter Klinger**  
Media and Investor Relations  
Cannings Purple  
+61 411 251 540  
[pklinger@canningspurple.com.au](mailto:pklinger@canningspurple.com.au)

**ST GEORGE**  
MINING LIMITED

## ***Fuelling the Future***

***RIU Resources Conference,  
Sydney  
9 May 2023***

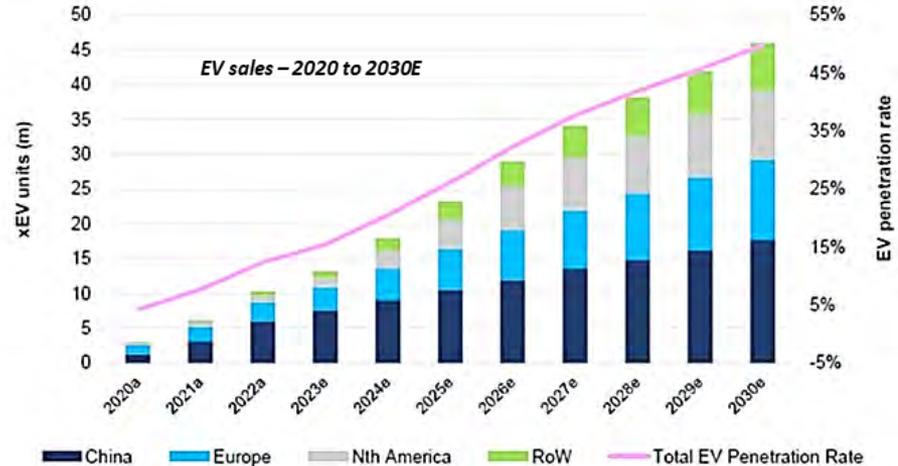


**ST GEORGE MINING LIMITED**  
ACN 139 308 973 | ASX: SGQ

# Battery Minerals

## Supply and demand dynamics

- Benchmark Mineral Intelligence predicts by 2035 we need:
  - More than 70 new lithium mines/plants
  - More than 60 new nickel mines/plants
- Lithium giant **Albemarle** predicts 500% lithium demand growth from 2022 to 2030 (*Albemarle investor update, 23 Jan 2023*)
- **BHP** sees nickel demand rising 400% by 2050 on EV boom (*Bloomberg, 2 Nov 2022*)



Source: Rho Motion, Canaccord Genuity estimates

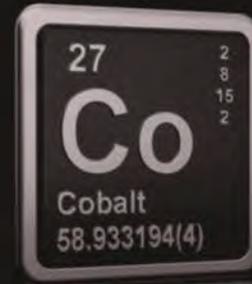
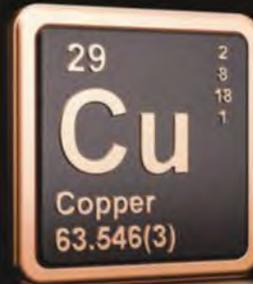
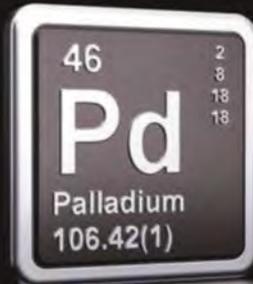
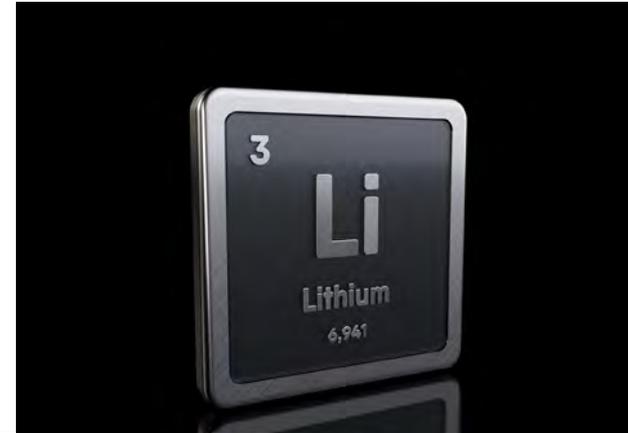
## Supply response

- There is only one way to meet demand – through exploration and development.....which requires a high incentive price for metals in the long-term outlook
- **LG Chem CEO**: “We are preparing ourselves first of all to secure supply of raw material, which is more important than the price. Our first and foremost priority is to secure enough raw material for the future.” *Bloomberg, 13 February 2023*

# Clean Energy Mega-Trend

*St George is building a portfolio of quality exploration and development projects to capitalise on the global trend:*

- Multi-decade transition to clean energy
- Electric vehicles and clean energy storage solutions are driving unprecedented demand for clean energy metals



# St George's Partners – Global Battery Players

Australia is the world's largest producer of hard-rock lithium, creating significant opportunities for foreign investment across all points in the value chain

St George has forged strategic relationships with three world leading lithium-ion battery companies to consider and negotiate strategic collaboration on lithium business opportunities including:

- potential offtake from any mining operation at Mt Alexander
- acquisition and exploration of new lithium projects
- investment in downstream lithium assets in Western Australia



## Shanghai Jayson Co., Ltd

- world's leading cathode precursor producer materials for lithium-ion batteries



## SVOLT Energy Technology Co., Ltd

- one of the world's largest battery manufacturers supplying to over 30 automakers and other customers



## Sunwoda Electronic Co., Ltd

- global leader for lithium-ion batteries for portable devices (e.g. smartphones)

# Corporate Overview

Market Cap (5 May 2023)

\$36m

Top 20 Shareholders

33%

Directors & Management

4%

Cash (31 March 2023)

\$5.7m

Listed Shares

840,510,549

Listed Options

37,188,238

Share Price (5 May 2023)

\$0.04

Debt

Nil

SGQ - 12 month share price:



## Directors and Management – Vision and Experience for Success

**John PRINEAS, Executive Chairman** – founding shareholder with over 25 years experience in mining, and the banking and legal sectors servicing the resources industry.

**John DAWSON, 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.

**Sarah SHIPWAY, Non-Executive Director/Company Secretary** – Chartered Accountant with extensive experience in advising listed exploration companies.

### Management:

**Julian HANNA, 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, both delivering new discoveries and growth during his leadership.

**Charles WILKINSON, Technical Consultant** – over 35 years as a geologist with 16 years at WMC including as Exploration Manager - Nickel. Joined Western Areas in 2008 as General Manager Exploration. During his 9 years at WSA, it grew its resource inventory to become Australia's No. 1 independent nickel sulphide producer.

**Dave MAHON, Exploration Manager** – joined St George in 2018 and has supervised all exploration at Mt Alexander and our Paterson Project. Gained specialist nickel sulphide expertise working with Western Areas as a mine geologist and project exploration geologist.

# Project Portfolio – Tier 1 WA

## Mt Alexander

- **Ni-Cu-PGEs:** discoveries from near-surface
- **Lithium:** 15km long pegmatite corridor

## Lithium Star Projects

- 7 **lithium** projects in Western Australia

## Woolgange

- **Lithium plus REE and copper:** large underexplored land package

## Paterson

- **Copper-gold:** large underexplored land package

## Ajana

- **Ni-Cu-PGEs:** greenfields exploration

## Broadview

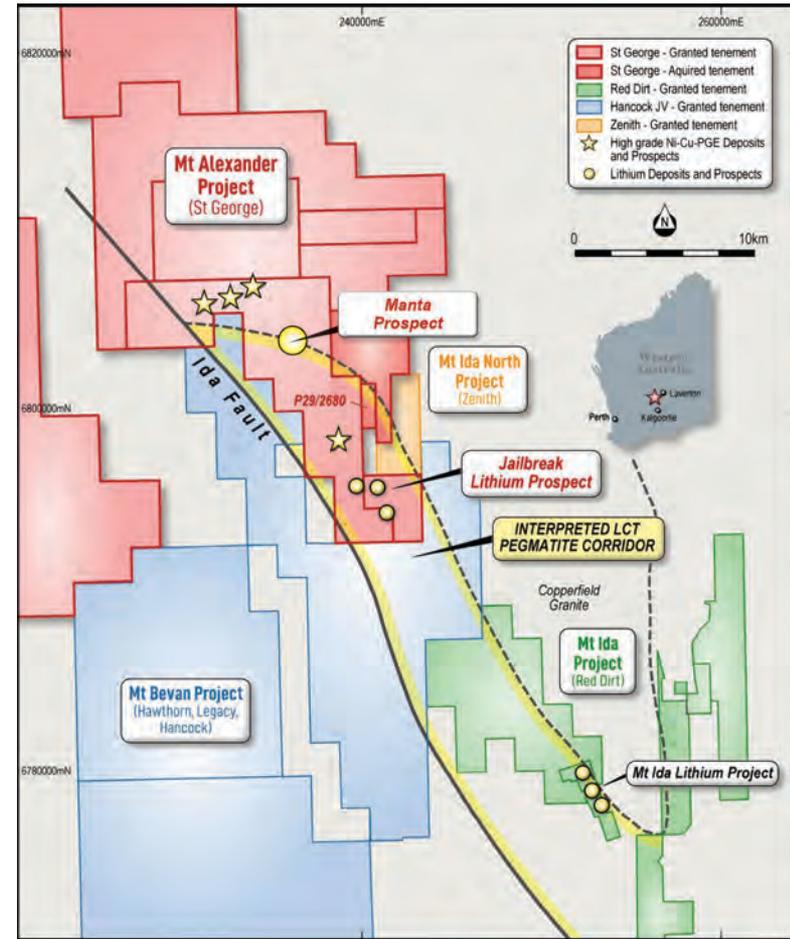
- **Ni-Cu-PGEs:** greenfields exploration



# Mt Alexander Project

# New lithium province

- St George holds a large part of the new Mt Ida Lithium Province that is being actively explored for pegmatite hosted lithium
- In October 2022, Red Dirt Metals – now Delta Lithium (ASX: DLI) announced a significant lithium resource at Mt Ida:
  - DLI Release on 19 Oct 2022: *Mt Ida Maiden Lithium Resource*
  - Initial mining by open pit, including DSO, then underground
  - **12.7Mt @ 1.2% Li<sub>2</sub>O**
- The LCT Pegmatite corridor extends from Mt Ida deposit through St George's Mt Alexander Project:
  - current focus on a 15km zone extending from Jailbreak to the new Manta pegmatite discovery
- The Pegmatite corridor is parallel to the Copperfield Granite intrusion, the interpreted source of the high-grade lithium-bearing pegmatites in the Mt Ida Lithium Province
- Drilling is in progress



# Successful early exploration

- **Rock chip sampling in 2022:**
  - confirms high-grade lithium, caesium, tantalum and rubidium from pegmatite outcrop up to 20m thick
  - assays up to **3.25% Li<sub>2</sub>O, 715ppm Cs<sub>2</sub>O, 192ppm Ta<sub>2</sub>O<sub>5</sub> and 1.37% Rb**
- **Initial drilling in late 2022:**
  - 20 drill holes completed
  - **every hole** intersected pegmatites up to 14m thick
  - pegmatites continue up to 200m below surface and remain open
  - lithium grades up to **1.8% Li<sub>2</sub>O**
- **2023 drilling in progress:**
  - 20,000m programme to test for extensions of the lithium bearing pegmatites
  - assays pending – geological logging indicates multiple pegmatites being intersected
- **121 metre thick pegmatite at 1,000m long Manta Prospect:**
  - exceptional **121m thick pegmatite interval, with total 225m of pegmatite in the drill hole**
  - laboratory assays pending



# High-grade Ni-Cu-PGEs also discovered

## Large underexplored high-grade mineral system:

- Four shallow, high-grade discoveries over a 5.5km strike of the east-west trending Cathedrals Belt – *potential for mineralisation deeper and along strike*
- Style of mineralisation at the Cathedrals Belt is very rare – combination of high-grade nickel, copper, cobalt and platinum group metals

## Metallurgical test work supports commercial potential:

- XPS (a Glencore company) completed test work (through conventional flotation)
- **27.8% Cu** concentrate, and **11.5% Ni** concentrate with potential to optimise
- Strong credits for PGEs (70% Pd, 10% Rh), Ag, Au and cobalt

Prospect	Hole	From m	Width m	Ni %	Cu %	Co %	PGE g/t
<b>Stricklands</b>	MAD71 <i>including</i>	37.5	17.45	3.0	1.3	0.13	1.68
		39.3	5.30	4.4	1.5	0.21	2.09
<b>Cathedrals</b>	MAD56 <i>including</i>	57.8	7.50	3.9	1.7	0.12	3.32
		61.8	3.15	6.4	2.9	0.20	5.03
<b>Investigators</b>	MAD127 <i>including</i>	183.9	8.49	5.8	2.6	0.18	3.61
		184.4	6.39	6.5	2.8	0.21	3.68



**Lithium Star**  
**- 7 lithium projects in WA -**

# Lithium Star – Tier 1 lithium address

## The Projects

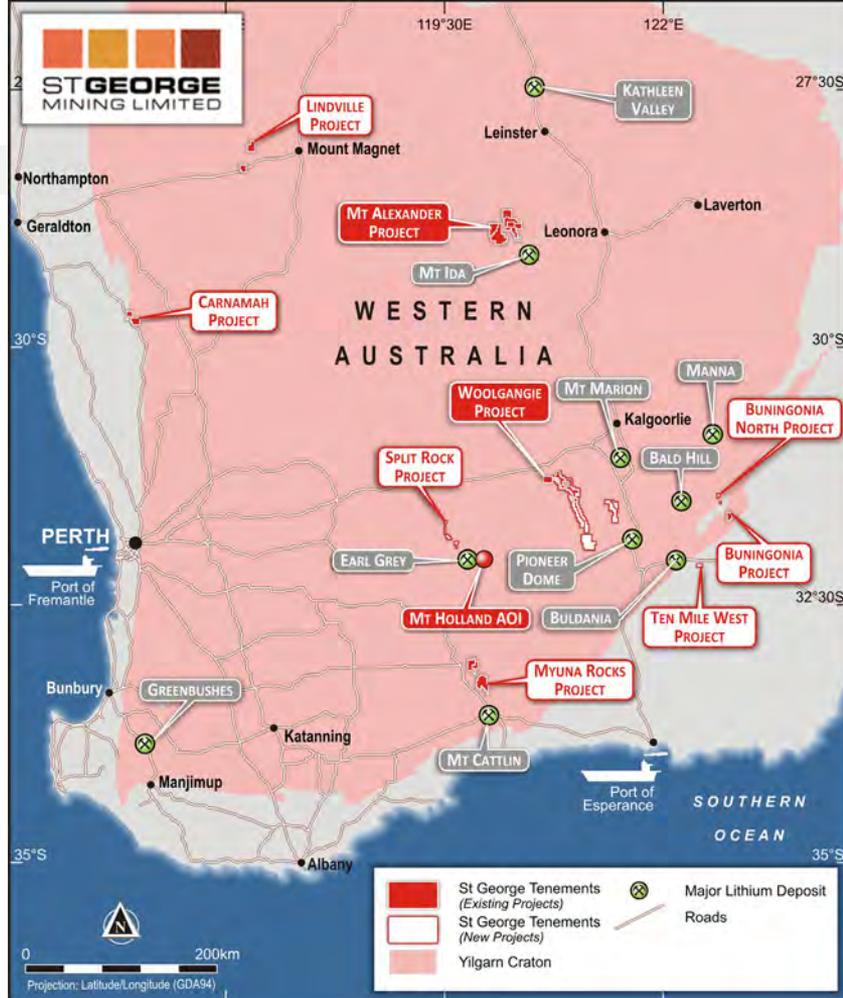
- 7 separate projects prospective for lithium
- Near high-grade spodumene producing mines or lithium deposits
- 14 Exploration Licences covering 653 sq km
- All projects are owned 100% by Lithium Star Pty Ltd, a wholly owned subsidiary of St George

### Operating lithium mines:

- Mt Marion Mine: **71.3Mt @ 1.37% Li<sub>2</sub>O** – Mineral Resources/Ganfeng
- Early Grey Deposit: **189Mt @ 1.5% Li<sub>2</sub>O** – Wesfarmers/SQM
- Bald Hill Mine: **26Mt @ 1% Li<sub>2</sub>O** – Alita
- Mt Cattlin Mine: **13.3Mt at 1.2% Li<sub>2</sub>O** - Allkem

### Lithium deposits:

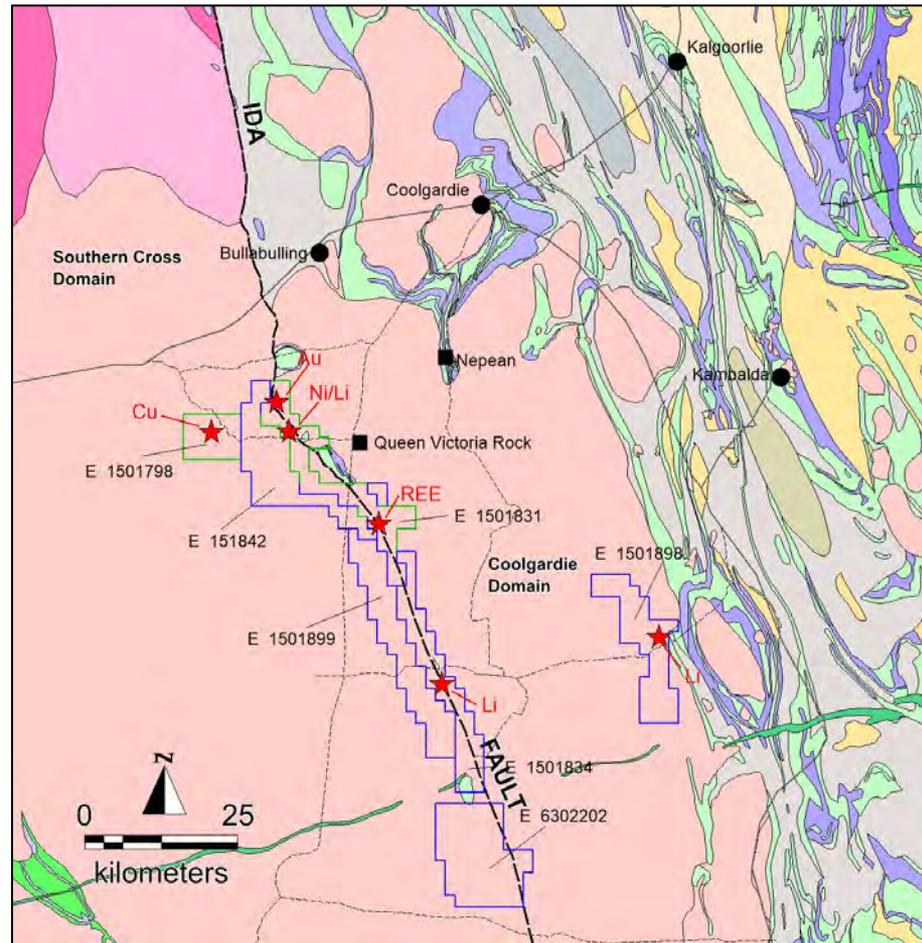
- Manna Deposit: **32.7Mt @ 1.0% Li<sub>2</sub>O** – Global Lithium
- Dome North: **11.2Mt @ 1.16% Li<sub>2</sub>O** – Essential (takeover by IGO/Tianqi)
- Buldania: **15Mt @ 1.0% Li<sub>2</sub>O** – Liontown



# Woolgangie Project

# Untested lithium potential

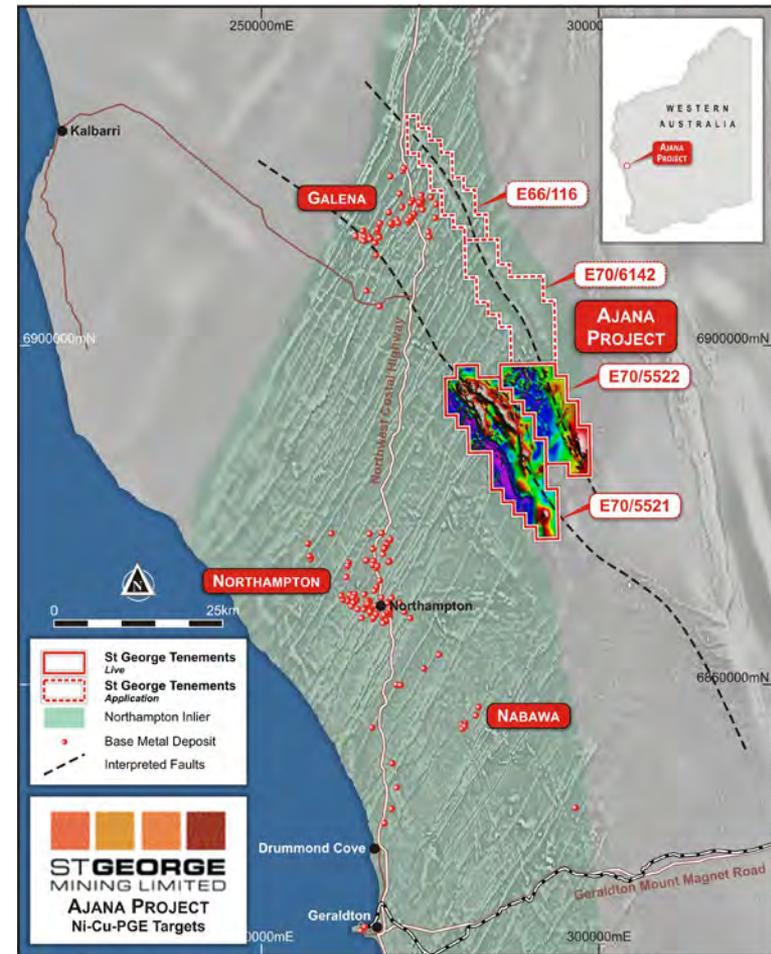
- Early-stage project with numerous opportunities for discovery of economic mineral deposits including **Li**, **Ni**, **REEs** and **Cu**
- 100km of continuous granted and application licences, held 100% by Destiny Lithium Pty Ltd – a wholly owned subsidiary of St George Mining
- Total area: more than 1,000 km<sup>2</sup>
- Licences cover a large section of the Ida Fault:
  - a major crustal boundary separating two large geological domains – considered highly prospective for lithium and nickel and REE
- Major lithium deposits associated with Ida Fault:
  - Kathleen Valley: 156Mt @ 1.4% Li<sub>2</sub>O and 130ppm Ta<sub>2</sub>O<sub>5</sub>
  - Mt Ida: 12.7Mt @ 1.2% Li<sub>2</sub>O



# Ajana Project

# Ni-Cu-PGE potential

- Located in a mineral province with extensive mining of near surface base metals deposits between 1850 to 1973
- Near the western margin of the Yilgarn Craton, an area of strong exploration activity following the discovery of Chalice Mining's 500Mt Julimar Ni-Cu-PGE deposit
- St George has granted exploration licences as well as licences under application covering a total area of more than 580 sq km (100% St George)
- Modern exploration techniques (magnetics and EM) have identified potential for Ni-Cu-PGE massive sulphide deposits under sand cover
- Historic pegmatite mines (for mica and tourmaline) demonstrate untested potential for Li



# 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):

- 10.March 2022 Strong Metallurgical Results for Mt Alexander
- 29 March 2022 Exploration Update - Mt Alexander
- 31 March 2022 Expansion Drill Programme – Mt Alexander
- 12 April 2022 Expansion Drill Programme – Mt Alexander
- 3 May 2022 Step Up in Exploration for St George
- 25 May 2022 St George Commences Drilling at the Paterson
- 1 September 2022 New Nickel Targets at Mt Alexander
- 7 September 2022 Significant Lithium Potential at Mt Alexander
- 20 September 2022 Significant Expansion of Lithium Potential
- 2021 Assays Confirm High-Grade Discovery at Mt Alexander
- 12 October 2022 High-Grade Lithium Confirmed at Mt Alexander
- 25 October 2022 Lithium Drilling Underway at Mt Alexander
- 4 November 2022 Drilling Intersects Pegmatites with Visible Lithium
- 7 November 2022 St George Increases Lithium Landholding
- 30 November 2022 St George Signs MoU with Global battery Investor
- 8 December 2022 St George Signs MoU with Global Battery Giant - SVOLT
- 21 December 2022 More Positive Lithium Results at Mt Alexander
- 21 December 2022 Strategic Investment in St George
- 6 February 2023 Lithium Exploration Commences at Mt Alexander
- 21 February 2023 Lithium Drilling Underway at Mt Alexander
- 29 March 2023 121 Pegmatite Intersection at Mt Alexander

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.