

16 April 2024

PRESENTATION – PAYDIRT’S BATTERY MINERALS CONFERENCE

St George Mining Limited (ASX: **SGQ**) is participating in Paydirt’s Battery Minerals Conference being held in Perth on 16 and 17 April 2024.

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

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

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***Battery Minerals Conference,
Perth***

16 April 2024

ST GEORGE
MINING LIMITED



ST GEORGE MINING LIMITED

ACN 139 308 973 | ASX: SGQ

Why St George Mining ?

Our clear business strategy to create value

Exposure to multiple future facing metals:

- Rare earths and lithium are our priority focus – discoveries already made
- Copper and nickel sulphide exploration projects as well

Tier 1 mining jurisdiction:

- All projects in Western Australia
- World's no. 1 address for hard-rock lithium
- Emerging world-class niobium and other rare earths projects

Corporate:

- Investment from global battery players that share St George's long-term vision and development strategy:
 - Shanghai Jayson New Energy Materials – world leader in cathode precursor materials
 - Amperex Technology Limited – world leader in lithium-ion batteries
 - Sunwoda Electronic – globally significant lithium-ion battery maker

Right time in the cycle

Positioned for high multiplier returns

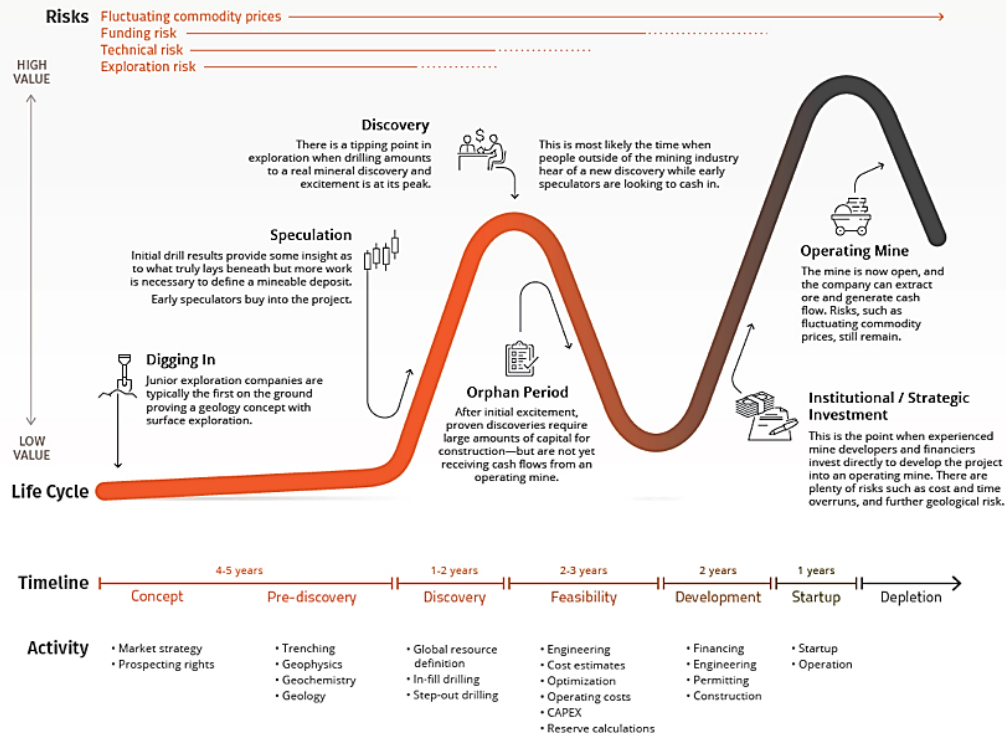
Discovery focus:

- Exploration for the discovery of major mineral deposits
- Portfolio of highly prospective, underexplored projects along strike from existing mines and deposits
- St George is positioned in the high value Discovery stage of the Lassoende Curve “Lifecycle of a Mineral Discovery”

“St George named as one of three junior explorers to watch in an improving lithium market” by award-winning resource sector journalist Barry FitzGerald in The Australian, 18 March 2024

Right: Lassoende Curve (Source: Visual Capitalist)

The Lifecycle of a Mineral Discovery



Projects in Tier 1 WA

Multiple projects for future facing commodities

Rare earths:

- +70km of prospective ground with high-grade discovery already confirmed along 10km-long clay zone

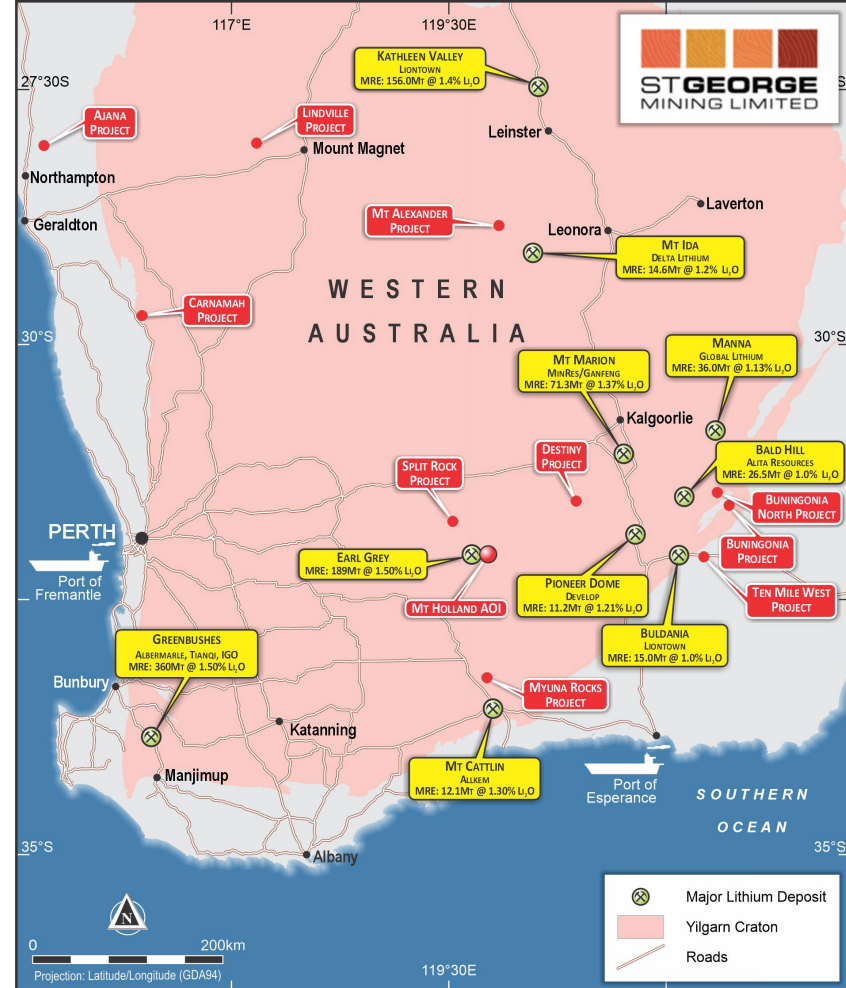
Lithium:

- Projects in the 'lithium super province' – located near spodumene producing mines and/or lithium deposits in development

Large landholding:

- Total landholding of:
 - 3,337 sq km of granted exploration licences (39 ELs)
 - 5,533 sq km of tenements in application (27 ELAs)

Right: Location of St George projects (red labels) surrounded by WA's major lithium mines/deposits (yellow label).



Destiny Project

High-grade rare earths discovery

Clay-hosted REE discovery

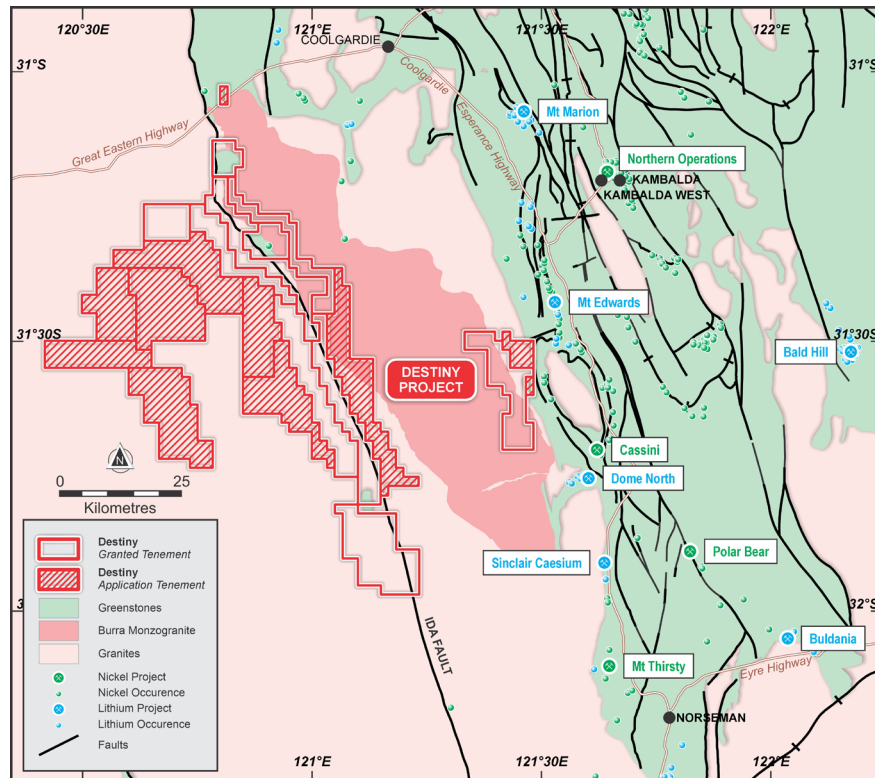
District scale potential

Clay-hosted mineralisation starts from surface:

- Grades up to 5,125ppm TREO (Total Rare Earth Oxide)
- Drilling has confirmed REE mineralisation along a 10km strike, with +70km of prospective stratigraphy untested along major Ida Fault
- Mineralised intercepts of more than 100m thick
- High-grade REE in bottom of holes, indicating potential for further depth extent
- High proportion of MREO (Magnetic Rare Earths) – high value/ very strong demand for clean energy uses

Next Steps:

- Resource definition and exploration drilling
- Metallurgical testwork



Drill Hole	Intercept
WGAC0026	30m @ 1,885ppm TREO, 399ppm MREO from 20m <i>including</i> 2m @ 5,125ppm TREO, 1,199ppm MREO from 32m
WGAC0030	42m @ 1,832ppm TREO, 351ppm MREO from 12m <i>including</i> 14m @ 2,622ppm TREO, 515ppm from 38m
WGAC0057	34m @ 1,363ppm TREO, 245ppm MREO from 12m, <i>including</i> 3m @ 2,910ppm TREO, 550ppm MREO from 51m
WGAC0062	30m @ 1,581ppm TREO, 310ppm MREO from 19m <i>including</i> 3m @ 2,629ppm TREO, 474ppm MREO from 28m <i>and</i> 3m @ 2,168ppm TREO, 491ppm MREO from 34m
WGAC0063	29m @ 1,394ppm TREO, 266 ppm MREO from 6m <i>including</i> 3m @ 2,065ppm TREO, 408ppm MREO from 13m <i>and</i> 3m @ 2,443ppm TREO, 487ppm MREO from 19m
WGAC0069	29m @ 1,524ppm TREO, 332ppm MREO from 15m <i>including</i> 9m @ 2,491ppm TREO, 536ppm MREO from 15m
WGAC0074	21m @ 1,611ppm TREO, 330ppm MREO from 6m <i>including</i> 9m @ 2,348ppm TREO, 495ppm MREO from 18m

- *Widespread high-grade REE mineralisation over 15 sq km*
- *Consistent grade and thickness*
- *Indicative of extensive mineralised footprint with potential favourable geometry*
- *Mineralisation remains open in all directions*

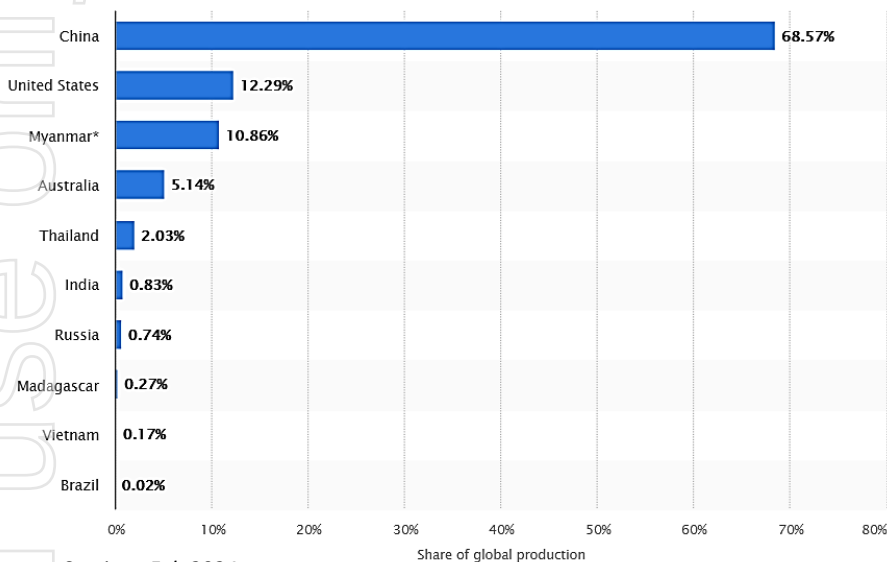
Favourable market dynamics for REE

Diversifying supply is critical

Use of REE in renewable energy and electronics is surging – *strong demand outlook with NdPr demand doubling by 2035*

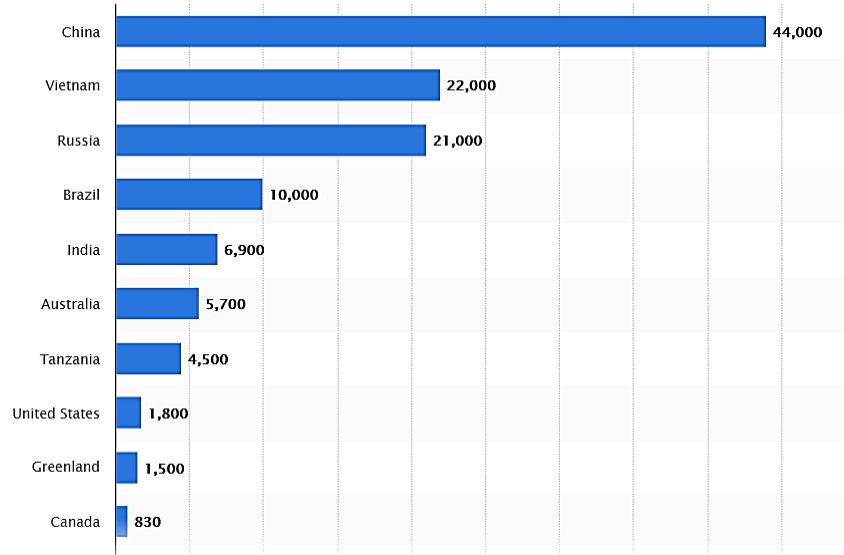
Incentive price increasing to encourage new mines – *Government support to diversify global supply chain*

Chart 1: Global production of rare earths in 2023



Source: Statista, Feb 2024

Chart 2: Reserves of rare earths worldwide (in 1,000 metric t)



Mt Alexander Project

High-grade lithium discovery

New lithium province

St George's strategic landholding

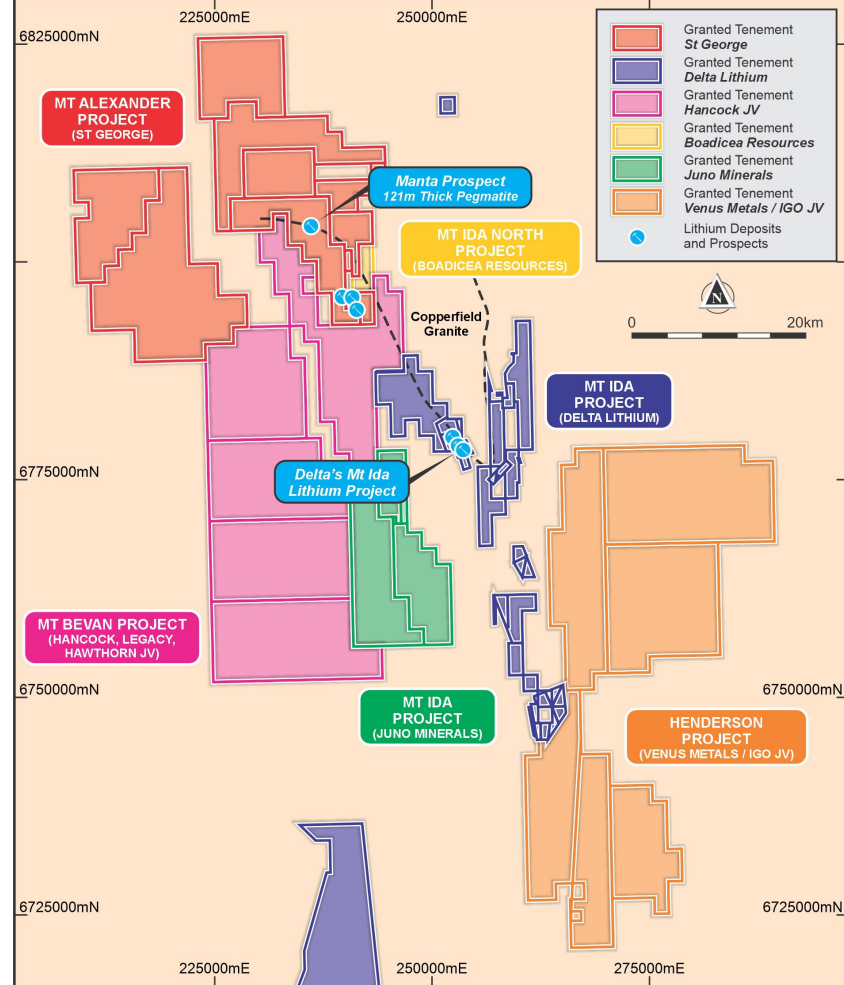
Dominant player in new lithium province:

- 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)
- High-priority exploration ground

Surrounded by major mining companies:

- Hancock Prospecting at the Mt Bevan Joint Venture (in JV with Indian Govt controlled Legacy Iron, ASX: LCY)
- Mineral Resources (ASX: MIN) as 18% shareholder of Delta Lithium: MRE of 14.6Mt @ 1.2% Li2O
- IGO (ASX: IGO) in joint venture with Venus Metals at the Henderson Project

Note: St George owns 100% of all tenements comprising the Mt Alexander Project other than E29/638 which is held in joint venture by St George (75%) and IGO Limited (25%). St George is the Manager of the Project, with IGO retaining a 25% non-contributing interest (in E29/638 only) until there is a decision to mine.



High-grade lithium discovery

Widespread pegmatites

Widespread pegmatites:

- More than 500 pegmatite outcrops being explored
- Favourable K:Rb (potassium: rubidium) ratio in pegmatites supports prospectivity for lithium mineralisation

Drilling confirms lithium-bearing pegmatite system:

- High-grade lithium – up to 1.8% Li₂O – intersected from surface to vertical depths of 300m
- Flat-lying continuous pegmatites up to 121m thick intersected at Manta

Follow-up drilling planned for 2024:

- Targeted drill programme to expand high-grade mineralisation

Right: RC drilling at Mt Alexander



Lithium Star

A new arm of St George with 7 exciting lithium projects in WA

Lithium Star

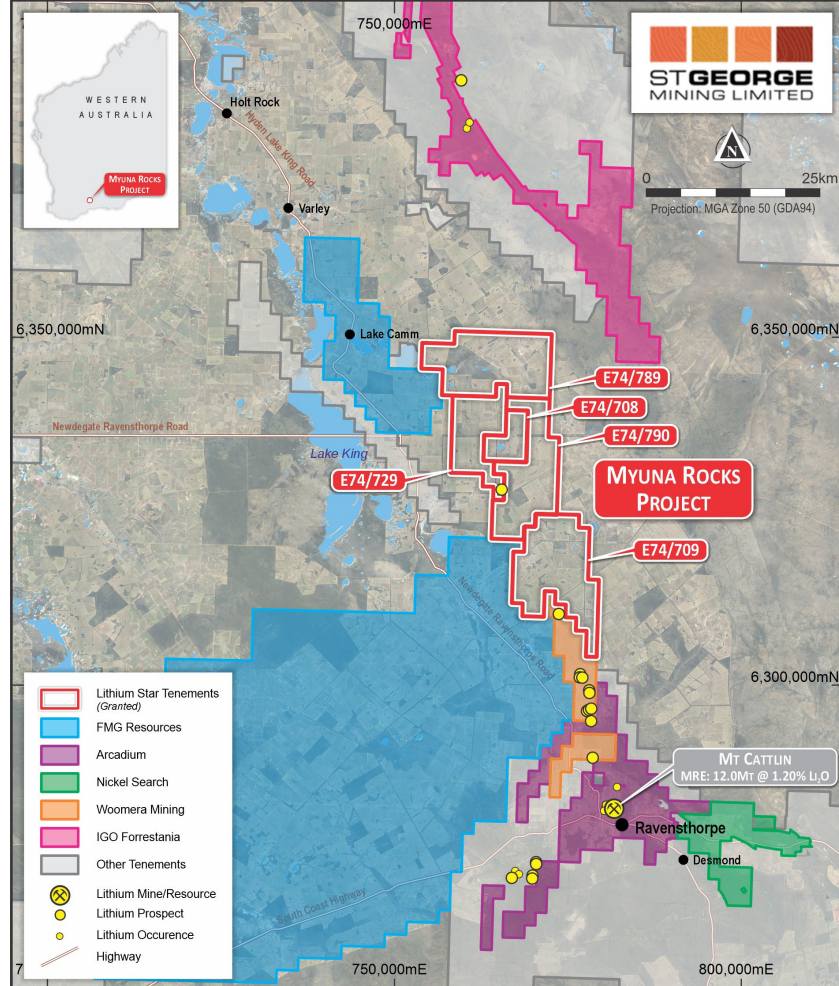
New projects in 'lithium super province'

Seven new lithium projects:

- Myuna Rocks (see map on right), Split Rock, Buningonia, Buningonia North, Ten Mile West, Carnamah, Lindville
- Extensive exploration and drilling programmes scheduled for 2024 to target a new discovery

JV with ATL:

- Amperex Technology Limited ("ATL") – world's leading lithium-ion battery maker, group company of TDK Corp of Japan – is St George's JV partner in Lithium Star
- ATL has invested \$3 million in Lithium Star for a 10% direct equity stake with St George holding the remaining 90%
- ATL can increase its stake in Lithium Star with further investment on terms to be agreed; ATL entitled to 20% of lithium product from Lithium Star



Ajana Project

Early success with base metals discovery

Underexplored mineral province

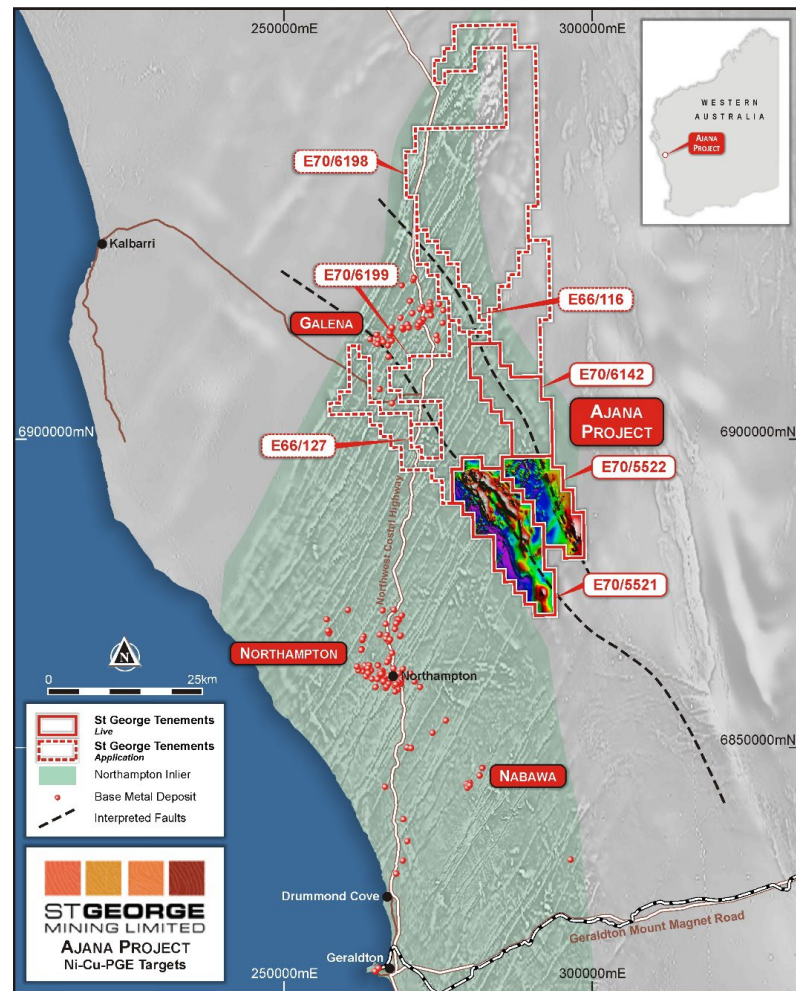
Ni-Cu-PGE and Lithium potential

Large scale mineral potential:

- Granted exploration licences and applications (100% St George) total >580 sq km
- St George targets include a >20km long interpreted intrusive complex with potential for Ni-Cu-PGE

Early exploration success supports prospectivity:

- 2023 maiden drilling intersected base metal mineralisation (high-grade Pb-Zn sulphides) in very widely spaced holes
- Wide halo (+50m) of base metal alteration intersected in drill hole testing an isolated magnetic/gravity anomaly may indicate a distal cap or halo related to sulphide mineralisation
- Follow-up drilling planned in 2024 to test the centre of the magnetic anomaly – potential for major discovery



Corporate Overview

Market Cap (15 April 2024)	Listed Shares
\$19m	988,540,432
Top 20 Shareholders	Listed Options
40%	39,188,238
Directors & Management	Share Price (15 April 2024)
3.5%	\$0.02
Cash (31 Dec 2023)	Debt
\$5.5m	Nil

Key shareholders:

Shanghai Jayson New Energy Materials Co., Ltd (11.73%) – *global leader in cathode precursor materials for batteries*

Amperex Technology Limited – *global leader in lithium-ion batteries and a group company of TDK Corp of Japan (10% equity in Lithium Star Pty Ltd)*

Sunwoda Electronic Co., Ltd – *globally significant lithium-ion battery maker*

Leadership with Vision and Experience for Success

John PRINEAS, Executive Chairman – founding shareholder with over 25 years' experience in mining, and banking 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 expertise in advising listed exploration companies.

Kecheng CAI, Non-Executive Director – Head of Investment & Strategy for Shanghai Jayson. More than 18 years in financial investment and corporate strategy, including roles in private equity and funds management.

Management:

Julian HANNA, General Manager – Growth and Development – over 35 years in exploration, development, mining and corporate growth. Former MD 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, growing 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 other projects. Broad experience as a mine geologist and project exploration geologist including with Western Areas.

Discovery and growth opportunities across multiple projects

Private use only



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:

- 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*
- 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*
- 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*
- 6 December 2023 *High-Grade REE Discovery*
- 27 December 2023 *St George – Exploration Update*
- 17 January 2024 *St George Increases Exposure to Ida Fault*
- 14 February 2024 *Large Lithium Soil Anomalies at Mt Alexander*
- 7 March 2024 *REE Drilling at Destiny*
- 13 March 2024 *Lithium Potential Grows at Myuna Rocks*
- 25 March 2024 *REE Discovery Expands at Destiny Project*

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”, “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.