

21 September 2022

## PRESENTATION – NEW WORLD METALS CONFERENCE

St George Mining Limited (ASX: **SGQ**) is participating in the New World Metals Conference being held today in Melbourne.

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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# *Fuelling the Future*

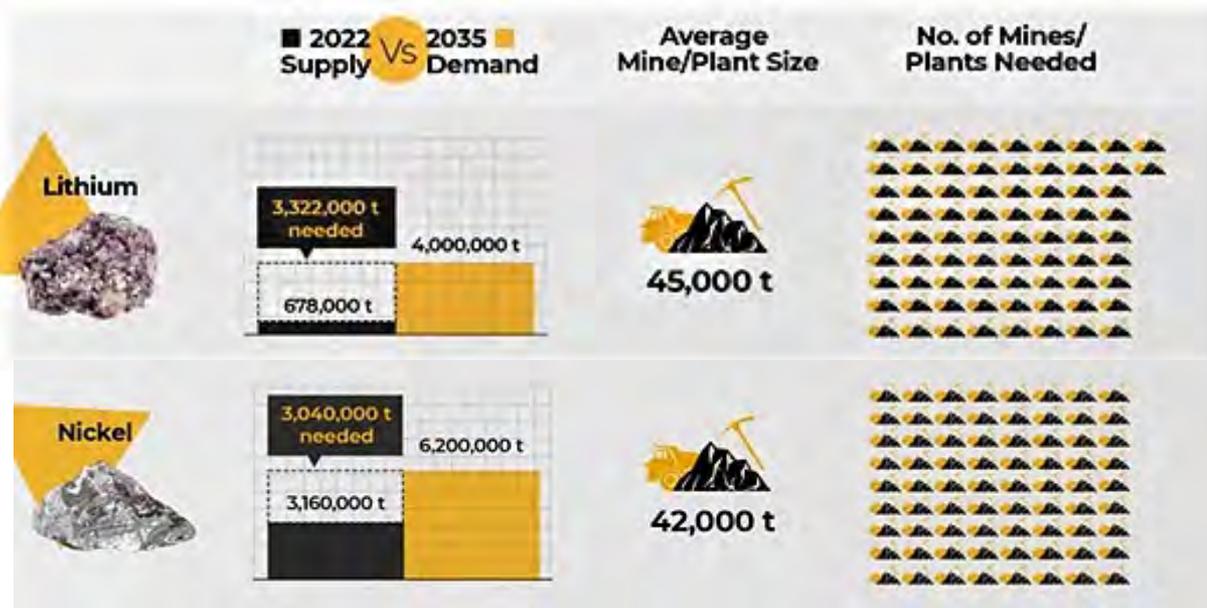
*2022 New World Metals Conference  
Melbourne, 21 September 2022*



ST GEORGE MINING LIMITED  
ACN 139 308 973 ASX: SGQ

# Clean Energy Metals

*Unprecedented demand growth*



Multi-decade transition to electrify energy is underway with unprecedented demand for clean energy metals

Source: Benchmark Mineral Intelligence, Sept 2022

## *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
- *Example:* Goldman Sachs forecasts that US\$150bn of investment is required in new copper projects if net zero targets are to be met ..... copper price needed to incentivise this investment is US\$13,000/t
- The same supply and demand thematic will apply across the suite of clean energy metals ..... with mining companies and their shareholders to be big winners

# Project Portfolio

## Tier one location

### Mt Alexander

- High-grade Ni-Cu-PGEs discovered near-surface with new, large-scale drill targets
- Prospective for lithium pegmatite mineralisation

### Paterson

- Prospective for copper-gold mineralisation
- Maiden diamond drilling completed with assays pending

### Ajana

- Large layered mafic intrusion interpreted from magnetics
- Prospective for Ni-Cu-PGEs

### Broadview

- Two large interpreted intrusions
- Prospective for Ni-Cu-PGEs



# Corporate Overview

*Expertise to create value for shareholders*



**Market Capitalisation  
(20 Sept 2022)**

**\$25m**

**Top 20 Shareholders**

**21%**

**Directors &  
Management**

**5%**

**Cash (30 June 2022)**

**\$4.1m**

**Listed Shares**

**700,017,808**

**Listed Options**

**Nil**

**Share Price (20 Sept  
2022)**

**\$0.036**

**Debt**

**Nil**

## 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.

**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.

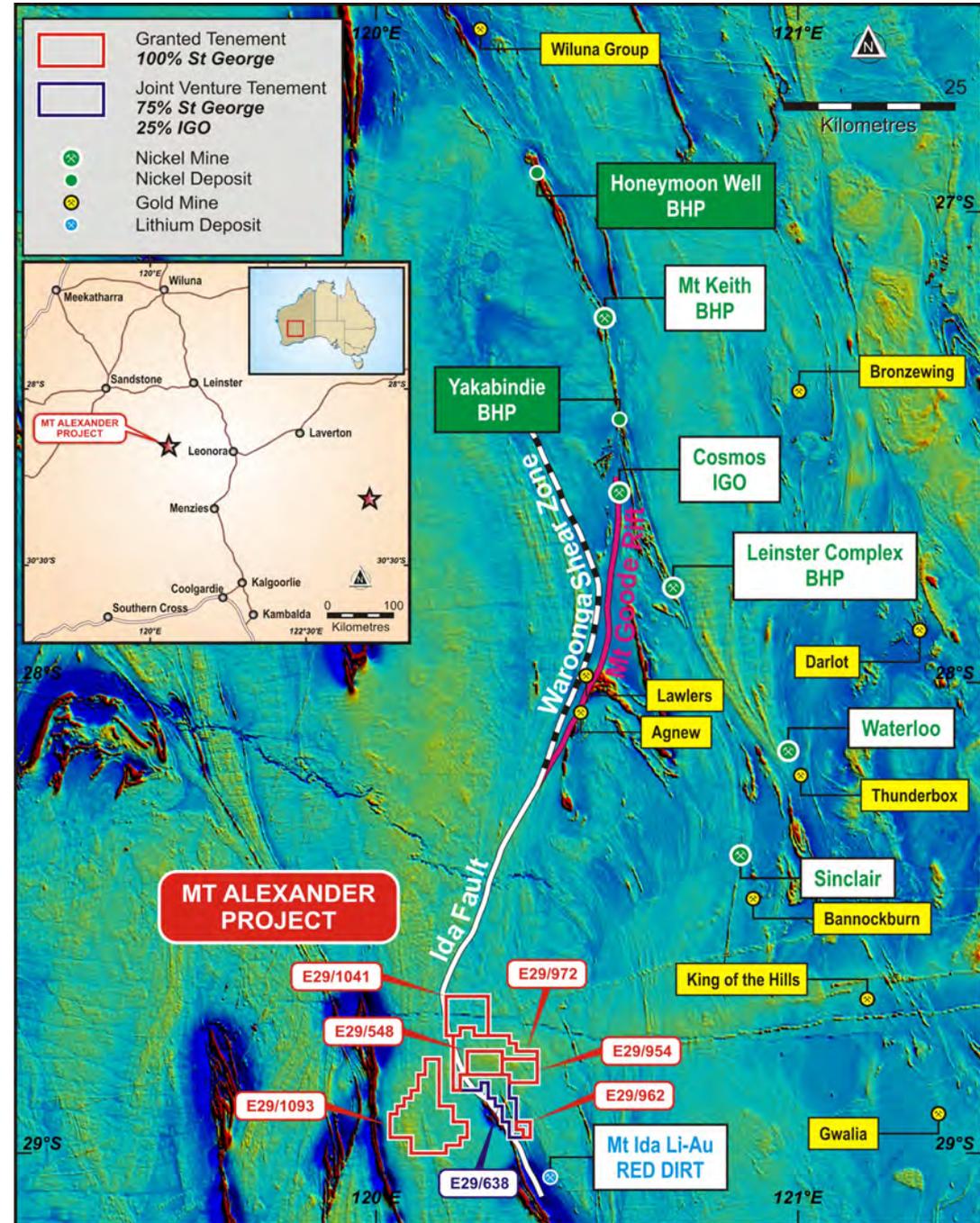
# Mt Alexander

## Ni-Cu-PGEs discoveries and lithium potential

### Excellent address:

- Tier 1 mining jurisdiction Western Australia
- **Nickel:** Neighbouring major nickel operations, including BHP's flagship nickel mines and IGO's Cosmos mine
- **Lithium:** Along strike from new lithium discoveries by Red Dirt Metals (ASX: RDT)
- Established mining region with access to existing infrastructure, roads and power
- Clear pathway to market

*About the Project:* St George Mining Limited holds 100% of all the Mt Alexander tenements with the exception of 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 St George in the Project until a decision to mine.



# Mt Alexander

## *Fresh Ni-Cu-PGE sulphides near-surface*

### *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
- Discoveries also made in the north-south trending Mt Alexander Belt which extends for more than 7km and is underexplored

### *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

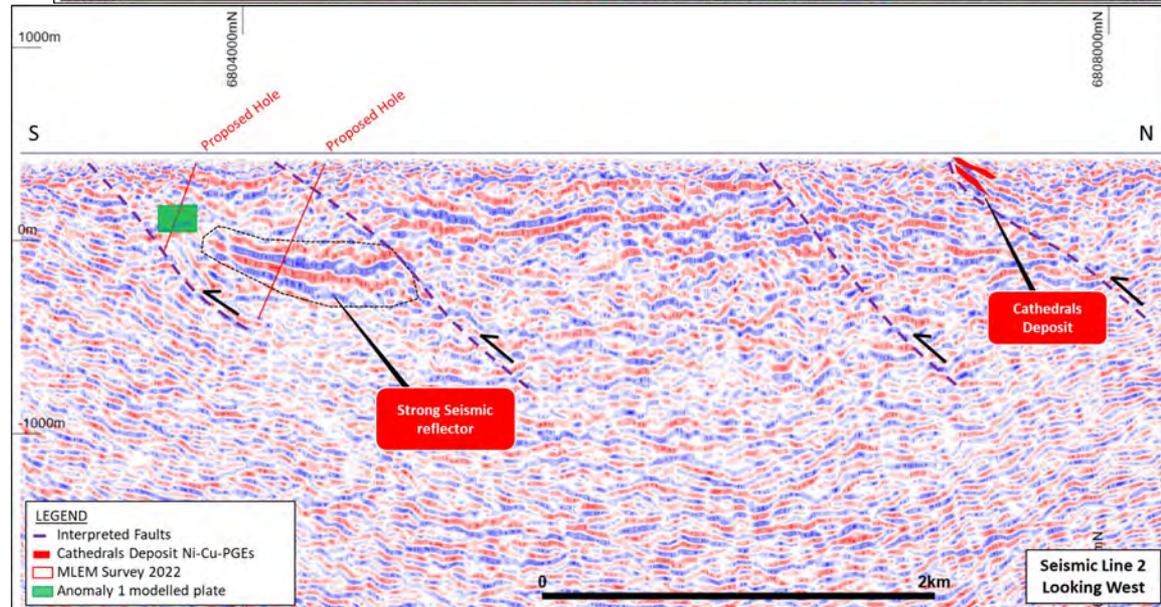
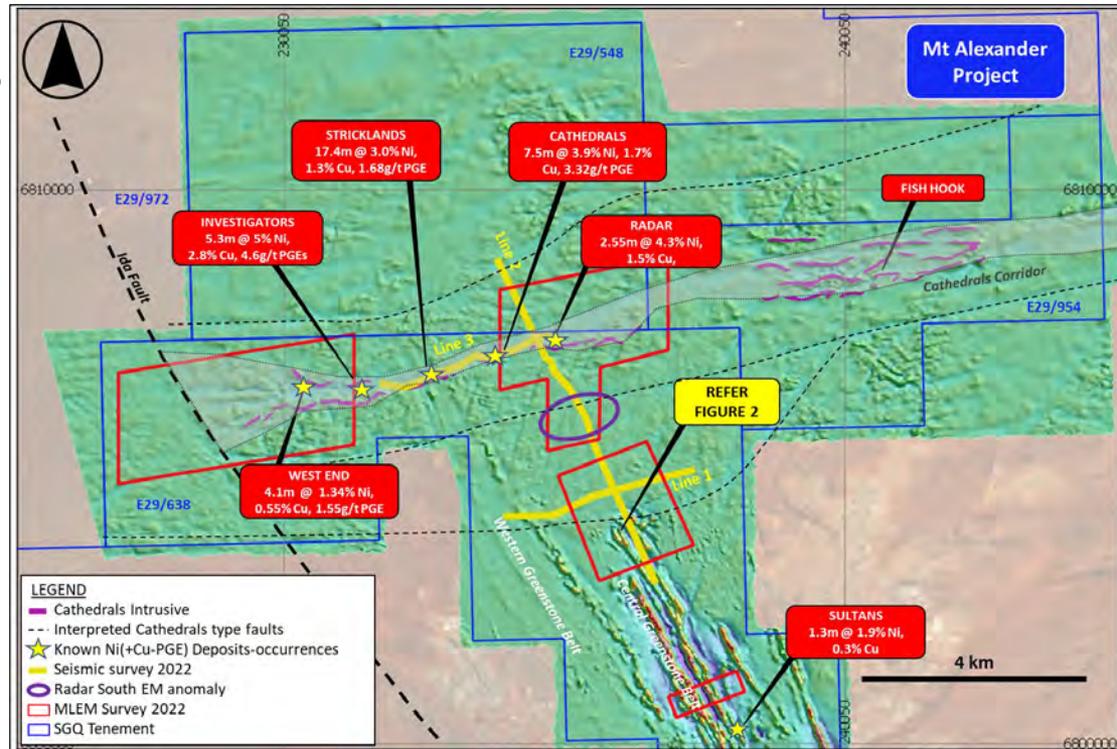
Prospect	Hole	From m	Width m	Ni %	Cu %	Co %	PGE g/t
<i>Stricklands</i>	<i>MAD71 including and</i>	37.5	17.45	3.0	1.3	0.13	1.68
		39.3	5.30	4.4	1.5	0.21	2.09
		50.6	2.02	5.1	2.0	0.21	3.31
<i>Cathedrals</i>	<i>MAD56 including</i>	57.8	7.50	3.9	1.7	0.12	3.32
		61.8	3.15	6.4	2.9	0.20	5.03
<i>Investigators</i>	MAD38	25.4	2.74	3.77	1.48	0.1	3.85
<i>Investigators</i>	<i>MAD127 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
<i>Radar</i>	MAD152	46	6.00	2.14	0.74	-	1.62



# Cutting edge geophysics

## New drill targets emerging

- New promising targets identified for drilling in Q4 2022 including in the granite/greenstone contact
- Similar geological setting to the Flying Fox discovery at Forrestania
- Late-time EM conductor modelled with conductivity of 3,500 Siemens and a plate 200m x 150m
- Located approximately 320m below surface, underneath thick granites that have intruded the greenstone belt
- Conductor is proximal to a large reflective body (>800m) recorded in the seismic survey



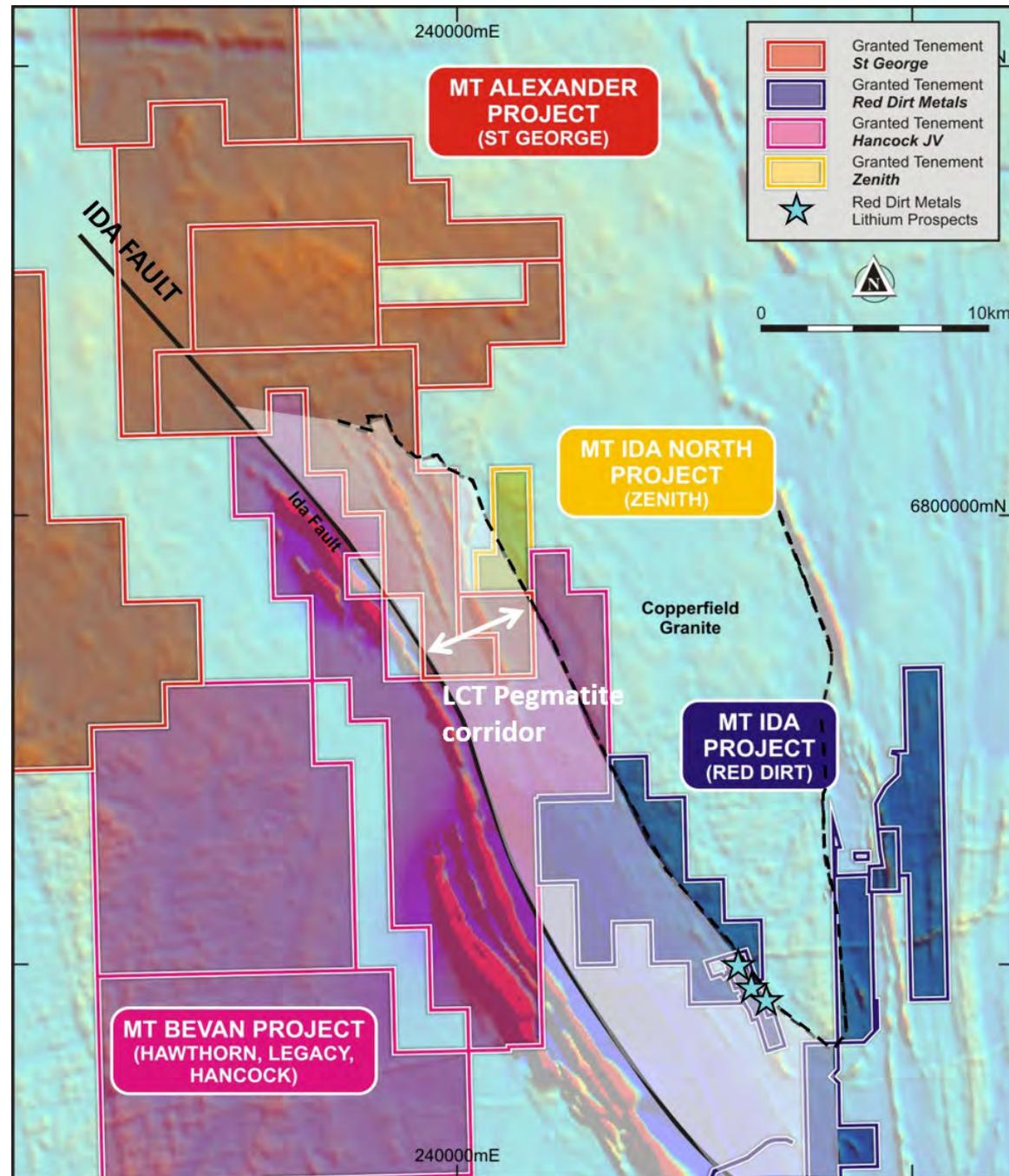
Top right: map of the Mt Alexander Project (against magnetic RTP 1VD) showing the recent seismic survey lines and MLEM survey areas.

Bottom right, Figure 2: seismic data (looking west) highlighting the strong reflector and adjacent plate. Planned drill holes are also shown.

# Lithium potential

## Unexplored for lithium

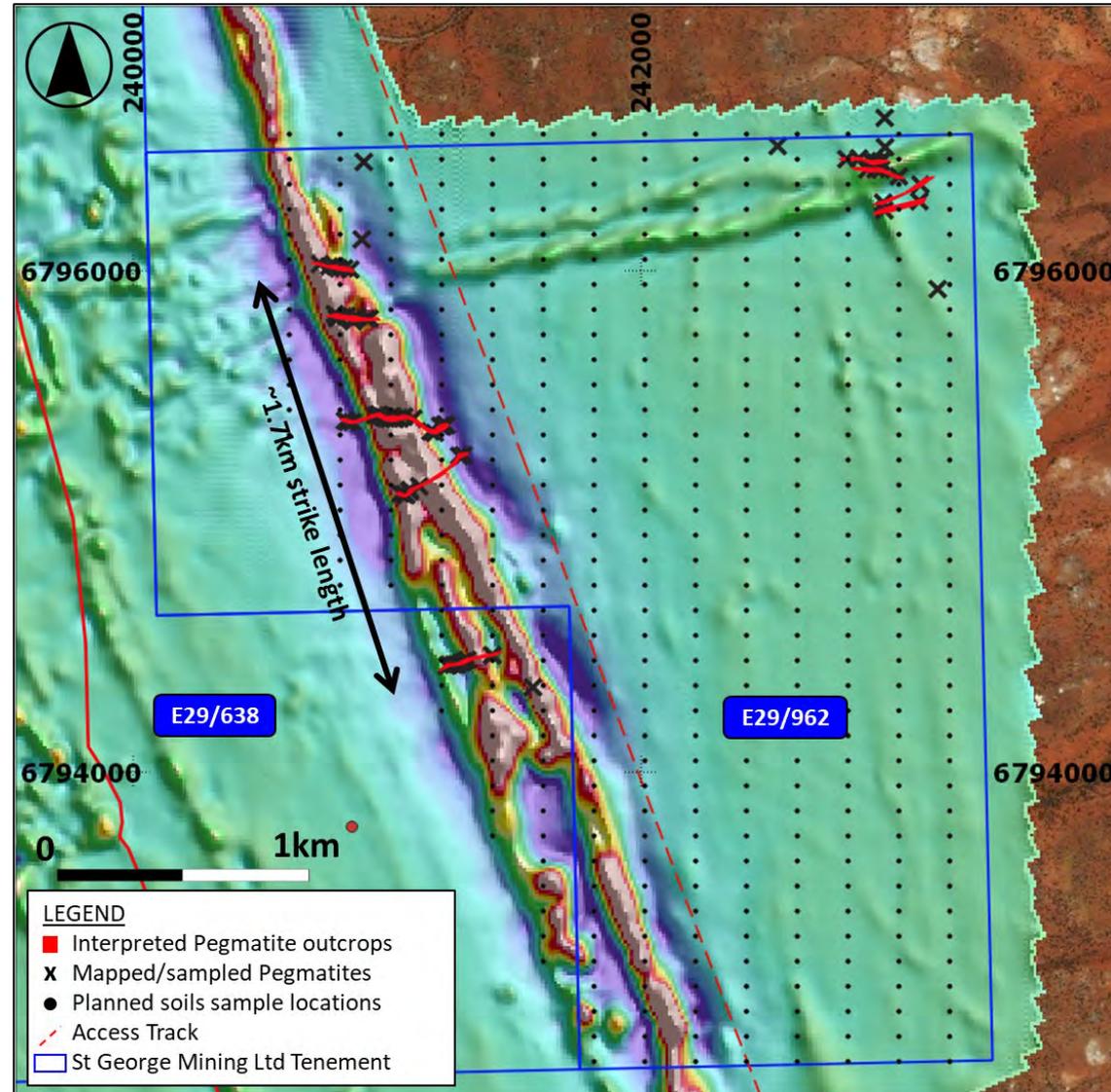
- Numerous east-west striking pegmatite dykes at Mt Alexander outcropping across an area extending over 15km
- St George's pegmatites are within the north-south LCT pegmatite corridor that extends southwards to lithium discoveries of Red Dirt Metals (ASX: RDT)
- In addition to St George and Red Dirt, significant exploration is underway in the province including:
- Zenith Minerals (ASX: ZNC) in joint venture with EV Metals plc – see ASX Release by Zenith dated 23 May 2022 *New Lithium Exploration Project Secured*
- Hawthorn Resources (ASX: HAW) in joint venture with Hancock Prospecting – see ASX Release by Hawthorn Resources dated 29 August 2022 *Hancock executes agreement for nickel, lithium and copper at Mt Bevan Project*



# Major field programme underway

## Early success

- Lithium bearing minerals **spodumene** and **lepidolite** have been interpreted from visual observations at five pegmatite dykes in a previously unexplored area at Mt Alexander
- The pegmatite outcrops occur along a 1.7km zone which remains open along strike south, north and to the east (*see map on right*)
- 119 rock chip samples have been taken from pegmatites within tenements: E29/962 (SGQ 100%) and within E29/638 (SGQ 75%, IGO 25%)
- Soil sampling is also underway at E29/962 to test for possible extensions of the pegmatites under cover



# Fertile pegmatites

## *Numerous samples collected*

- Assays for initial samples confirmed a geochemistry supportive of lithium mineralisation with anomalous values of lithium, caesium and tantalum (LCT) and high rubidium
- Visual observation of latest rock chip samples has identified lithium minerals in the form of spodumene and lepidolite (*photos of samples are bottom and right*)
- First laboratory assays and analysis by portable XRD spectrometer due next week

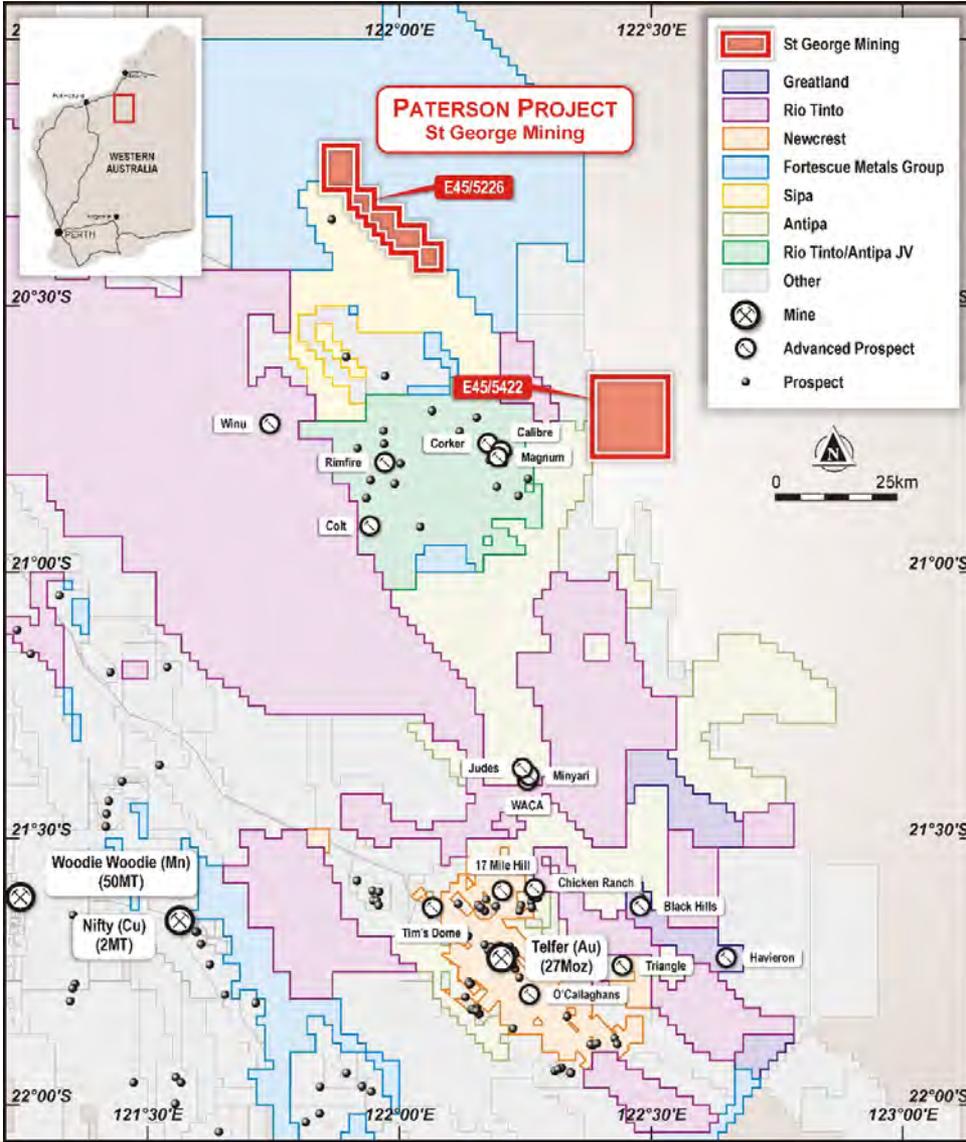


# Paterson Project

*Within world-class copper-gold district*



- St George holds 100% of two prospective tenements
- St George ground has not been explored by modern geophysics and drilling techniques, offering an attractive opportunity for a new discovery in an exploration hotspot
- Geological setting at St George's ground is interpreted to show strong similarities to Rio's major Winu Cu-Au discovery
- Neighbouring companies Antipa (ASX: AZY) and Sipa (ASX: SRI) have joint ventures with Rio Tinto
- Style of intrusion related breccia mineralisation seen in St George's drilling is demonstrated at Antipa Minerals' (ASX: AZY) Minyari Deposit (1.8Moz Au and 162kt Cu) and Greatland Gold's (LSE: GGP) Havieron Deposit (5.5Moz Au and 218kt Cu) in the southern Paterson Province



# Paterson Project

## *Encouraging early drill results*

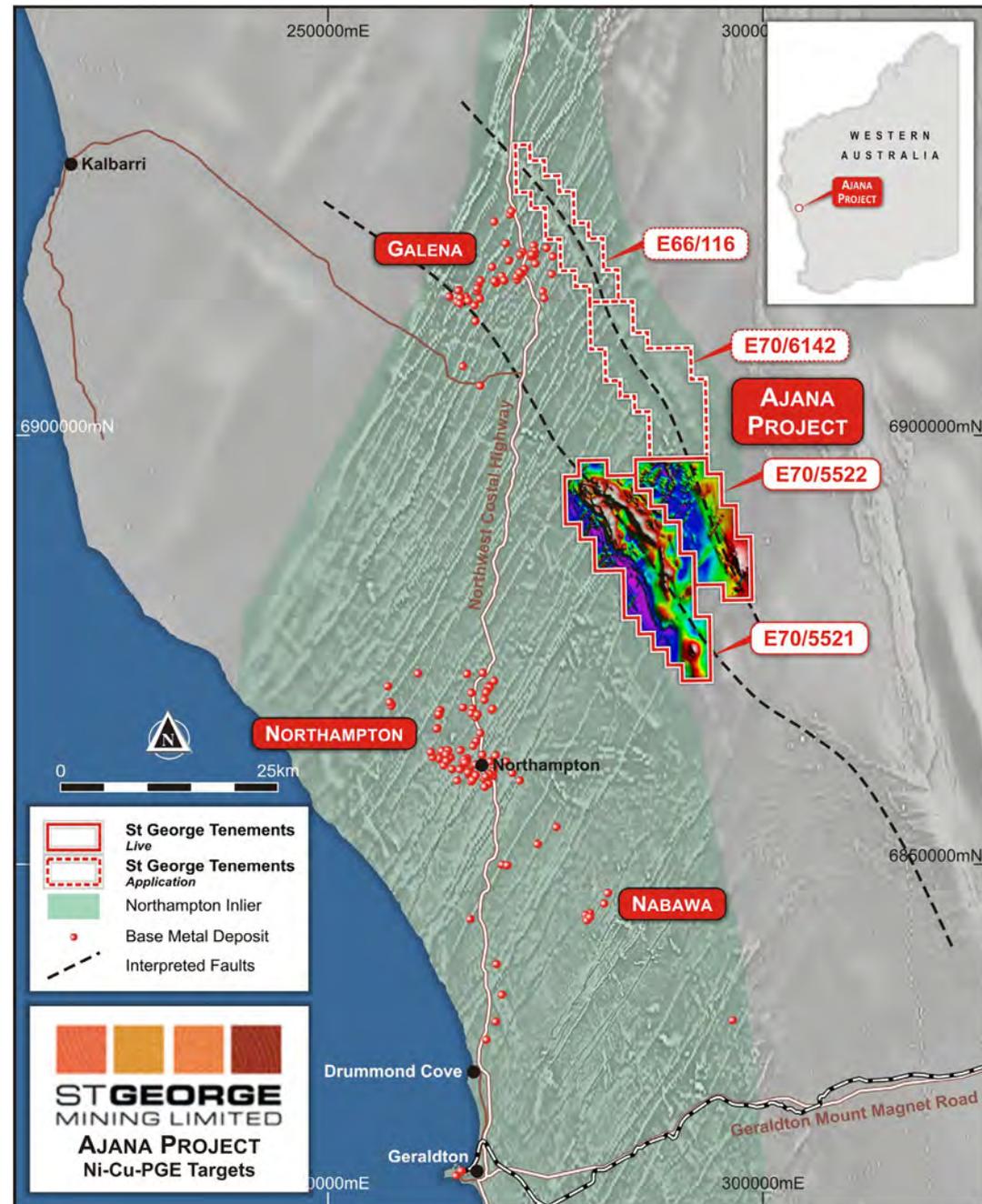
- Maiden diamond drilling programme completed with assays pending
- Drilling has confirmed prospective host lithologies and evidence of hydrothermal/mineralising process
- Visual copper sulphide and local quartz veining logged in several drill holes
- Lithologies intersected include meta-sediments that are considered part of the Yeneena Group sequence, known to host major copper-gold deposits elsewhere within the Paterson Province
- Photos on right show sulphidic intersections from PDD002 at 235m (top left) and 267m (top right); structural complexity and alteration of vein sets shown in core tray for PDD001 (bottom)



# Ajana Project

## *Underexplored ground in fertile mineral district*

- Located in the Northampton mineral field where extensive mining of near surface base metals deposits occurred during 1850 to 1973
- Near the western margin of the Yilgarn, an area of strong exploration activity following the discovery of Challice Mining's Julimar deposit in the western Yilgarn
- St George has two granted exploration licences and two licences in application covering a total of 580 sq km (100% St George)
- Modern exploration techniques and concepts, including the latest geophysical surveys, have the potential to identify blind deposits

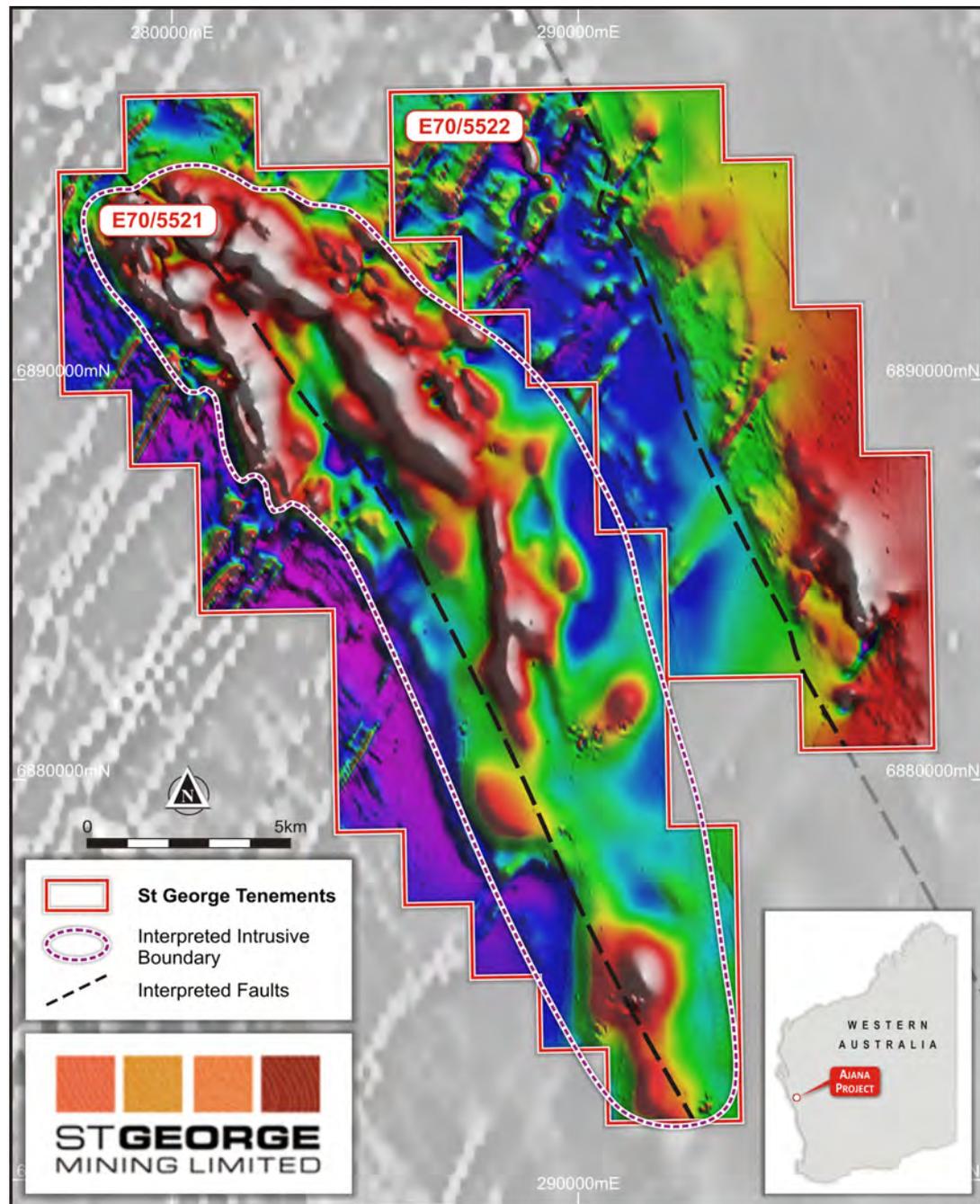


# Ajana Project

## Ni-Cu-PGE targets emerging

- Detailed airmag by St George confirms a 20km-long north-northwest trending elliptical magnetically anomalous body
- Large magnetic anomaly includes several concentric features and is cut by the same dykes that host the historic lead, zinc and copper sulphide deposits in the Northampton block
- Inversion modelling of the magnetic data is indicative of a late-stage, potentially layered mafic intrusion – prospective to host significant Ni-Cu-PGEs
- Drill targets emerging for Q4 2022

*Map of the Ajana granted exploration licences with newly acquired airborne magnetics data set against regional magnetics.*

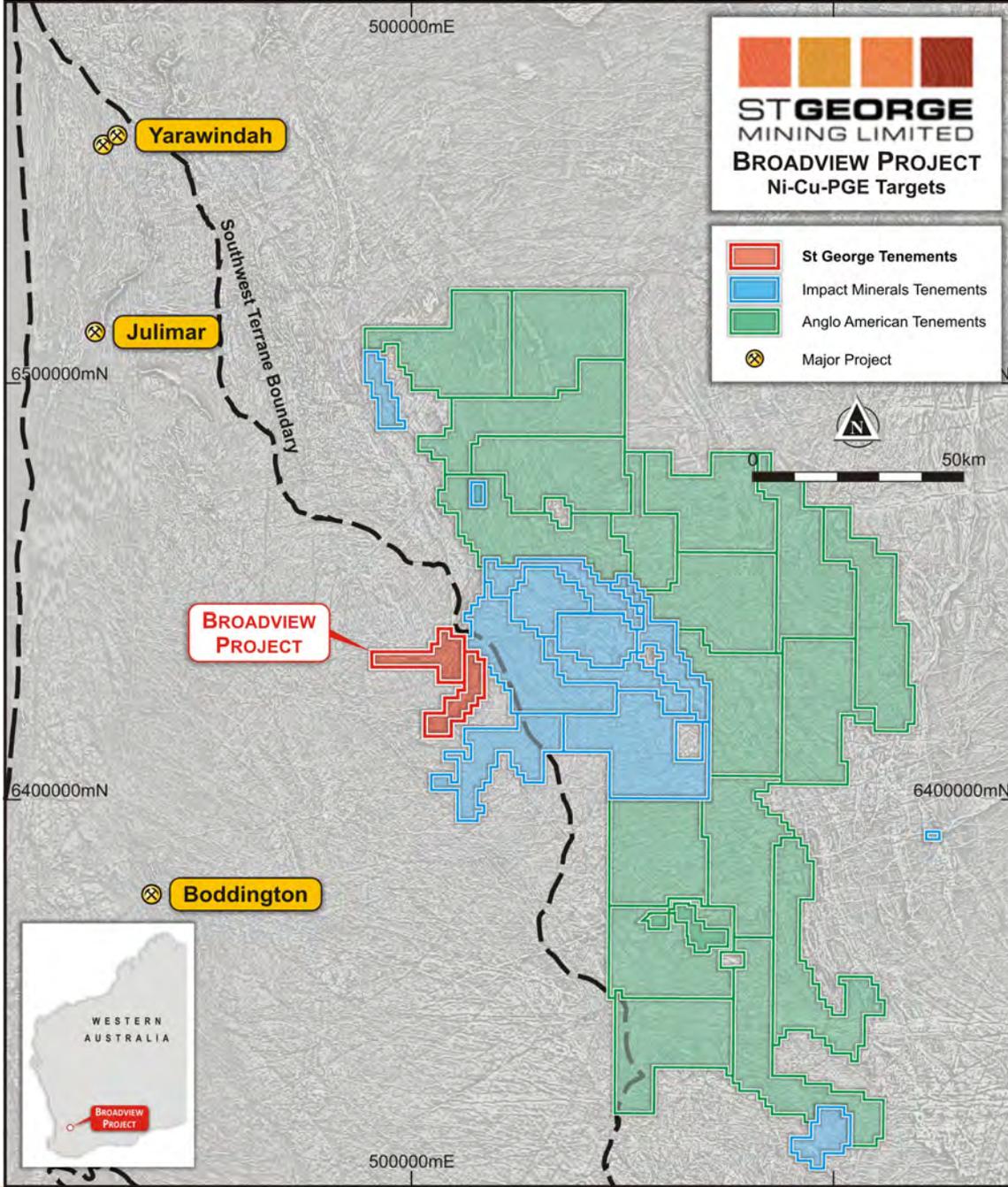


# Broadview Project

## Emerging mineral province

- Located in Western Australia's Wheatbelt, approximately 150km east of Perth
- Two exploration licences (100% St George) covering two large interpreted mafic intrusives – each +25km long – adjacent to the boundary of the South West Terrane
- The boundary of the South West Terrane hosts Chalice's Julimar discovery, located to the north-west of Broadview
- Anglo American and Impact Minerals have major projects underway to the east of Broadview

Map of the Broadview Project tenements overlaying magnetic data and highlighting interpreted mafic intrusives. Inset shows regional location adjacent to Impact Mineral's and Anglo's extensive tenement holdings.

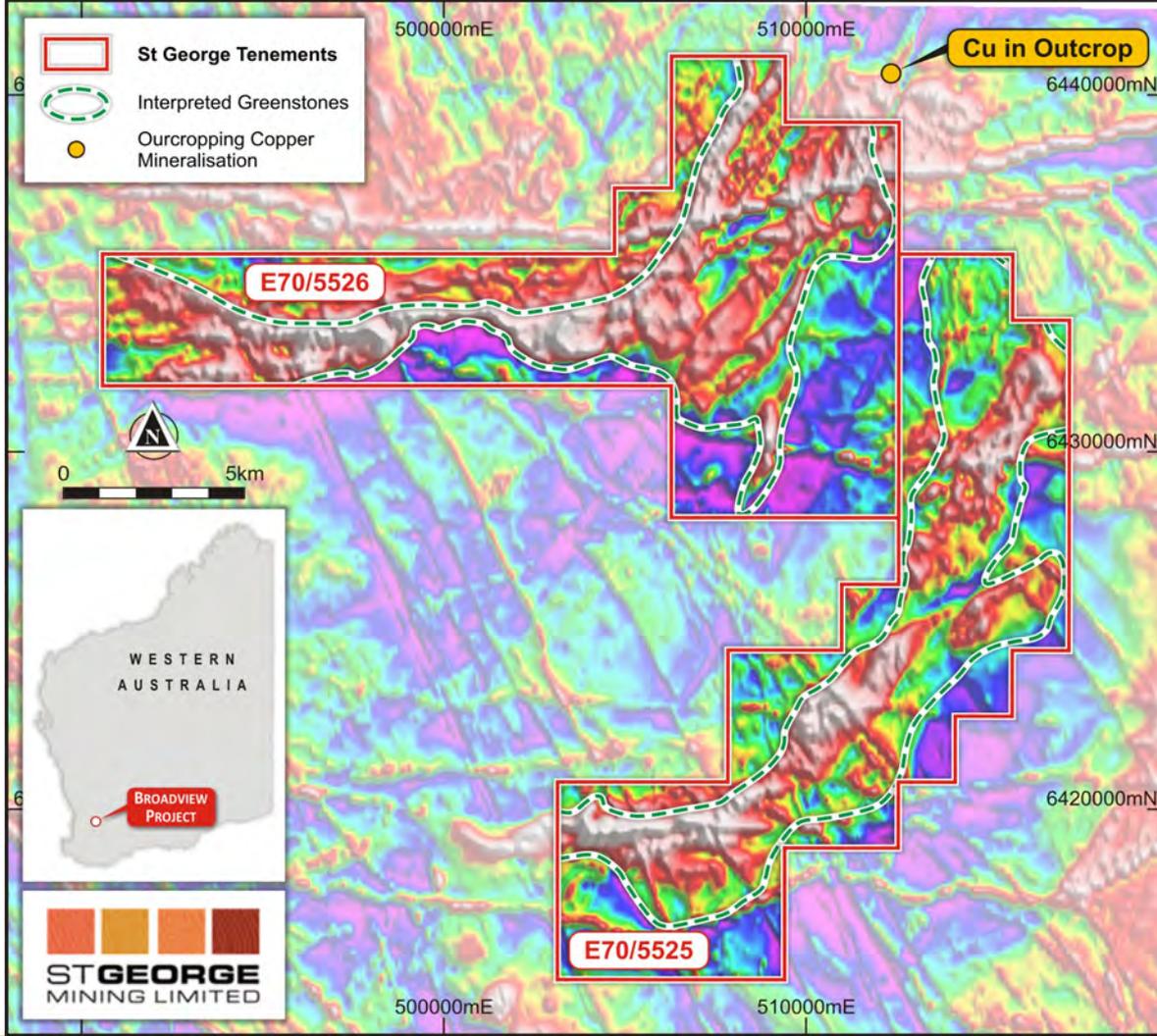


# Broadview Project

## *Favourable geological setting*



- Licences cover two approx. 25km long north-east trending strongly magnetic features interpreted to potentially represent two large mafic/ultramafic intrusions
- Unusual magnetic features cross-cut the regional north-west trending geology and appear linked to the craton-scale domain boundary interpreted at the eastern end of the licences
- Widely spaced auger soil sampling by St George along existing roads identified locally elevated Ni and Cu results



*Map of Broadview Project showing the large arcuate magnetic anomalies identified from airborne magnetic imagery and a reported copper occurrence along strike from the northern anomaly.*

# Major Drill Programmes

## *Extensive drilling scheduled throughout 2022*

- Diamond and reverse circulation (RC) drilling to be deployed in 2022
- Drilling at Mt Alexander will focus on:
  - testing new, conceptual targets for Ni-Cu-PGE discoveries
  - testing new targets for lithium discoveries
- Drilling at Paterson completed with assays pending
- Drilling at Ajana and Broadview planned for Q4 2022 subject to finalisation of access agreements
- Potential to deliver substantial value for shareholders



***Photo: Drill core from metallurgical hole STD014 at Stricklands showing massive nickel-copper sulphides***

*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):

- 22 June 2021 Assays Confirm High-Grade Discovery at Mt Alexander
- 6 July 2021 New EM Conductors at Mt Alexander
- 8 July 2021 Drilling Intersects Prospective Lithology at Paterson
- 13 August 2021 Highly Successful Drilling at Paterson Project
- 16 August 2021 Drilling Underway at Mt Alexander
- 18 August 2021 Field of EM Conductors at Mt Alexander
- 13 September 2021 Drilling of New Targets at Mt Alexander
- 14 October 2021 Diamond Drilling Underway at Mt Alexander
- 1 December 2021 Seismic Results Unlock Stand-Out Targets
- 9 December 2021 Seismic Delivers Another Standout Target at Mt Alexander
- 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
- 23 June 2022 Exploration Update for St George Mining
- 13 July 2022 Drilling Update for Paterson Project
- 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

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.