



# May 2022 Presentation

*Leaders in Frontier Exploration*

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## Competent Person Statement

The information in this presentation that relates to Exploration Results is based on information compiled by Mr Stuart Rechner BSc (Geology) MAIG MAusIMM, a Member of the Australian Institute of Geoscientists and the Australasian Institute of Mining and Metallurgy. Mr Rechner is a Director and shareholder of Strategic Energy Resources Limited. Mr Rechner has sufficient experience which is relevant to the styles of mineralisation and types of deposits under consideration and to the activity being undertaken to qualify as a Competent Person as defined in the 2012 Edition of the 'Australasian Code for Reporting of Exploration Results, Mineral Resources and Ore Reserves'. Mr Rechner consents to the inclusion in this presentation of the matters based on his information in the form and context in which it appears.







# A Strategic Approach to Exploration



## SCIENCE DRIVEN

Project generation and exploration targeting utilising leading experts and latest sciences



## FRONTIER FOCUSED

Targeting Tier-1 discoveries undercover



## SHARE RISK

Actively seek Government co-funding and Joint Ventures to fund ambitious exploration programs



Australian Government  
Geoscience Australia



Exploring for  
the **Future**  
minerals | energy | groundwater



**MinEx** CRC



**Caldera  
Analytics**



**UltraFine+**

**CODES**

UNIVERSITY of  
**TASMANIA**



# Current Projects

## East Tennant Cu-Au Project

- 1300km<sup>2</sup> of emerging copper province between Tennant Creek and Mt Isa mineral fields
- Multiple drill programs underway nearby

## Ambergate HMS Resource

- Heavy Mineral Sands **Inferred Resource of 11.2Mt @ 5.1% HMS (569,000t HMS)** surrounded by operating mines
- Hidden value ready to be unlocked

## Isa Undercover Initiative

One of the most highly mineralised Cu-Au provinces in the world

- **Isa North** – northern extension of Mt Isa – Gunpowder mineralised domain set for drill testing this year
- **Canobie** – Defining a polymetallic mineralisation model

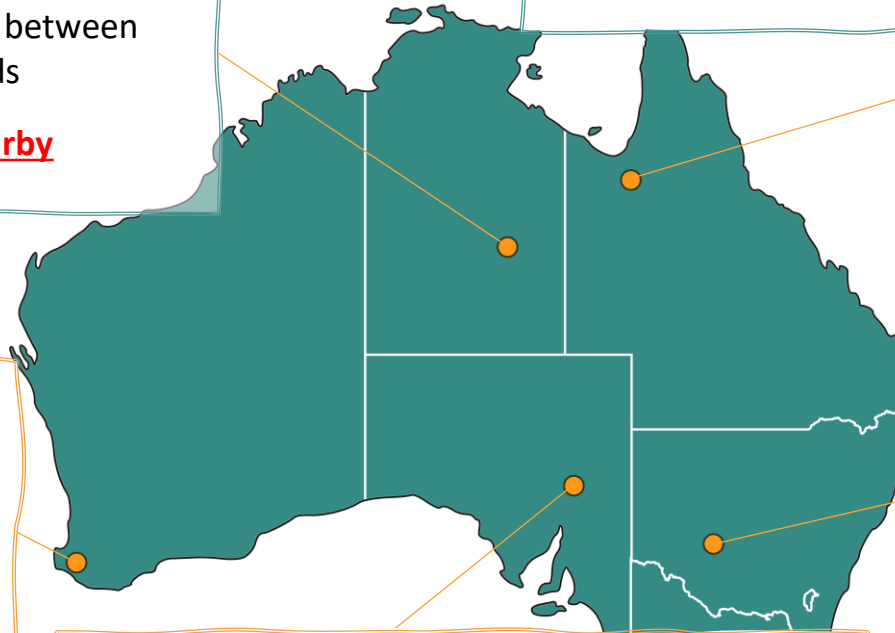
## Cobar Basin & Lachlan Fold Belt

Multiple projects secured in competitive tender process in highly prospective regions

- **South Cobar** – Polymetallic targets within the Achilles shear set for drill testing this year
- **Cowal** – Adjacent to the Cowal Gold Mine and Marsden Copper-Gold deposit
- **Garema** – Extension of Parkes Fault Zone associated with Tomingley Gold Mine
- **Mundi** – Greenfield project covering large MT anomaly identified by Geoscience Australia

## Gawler Craton Cu-Au Projects

- **Myall Creek** - JV with FMG
- **Mabel Creek Ridge** – JV with Caldera Analytics



# Corporate Snapshot

## Capital Structure

<b>Shares on Issue</b>	242M
<b>Unlisted Options</b>	18.6M
<b>Market Cap</b>	\$6.5M (at 2.7c <sup>1</sup> )
<b>Cash<sup>2</sup></b>	\$0.8M
<b>Assets</b>	ASX:RML - 16M Shares VOX Royalty (TSXV:VOX) 40M Shares Ionic Industries - 6.5% (unlisted)

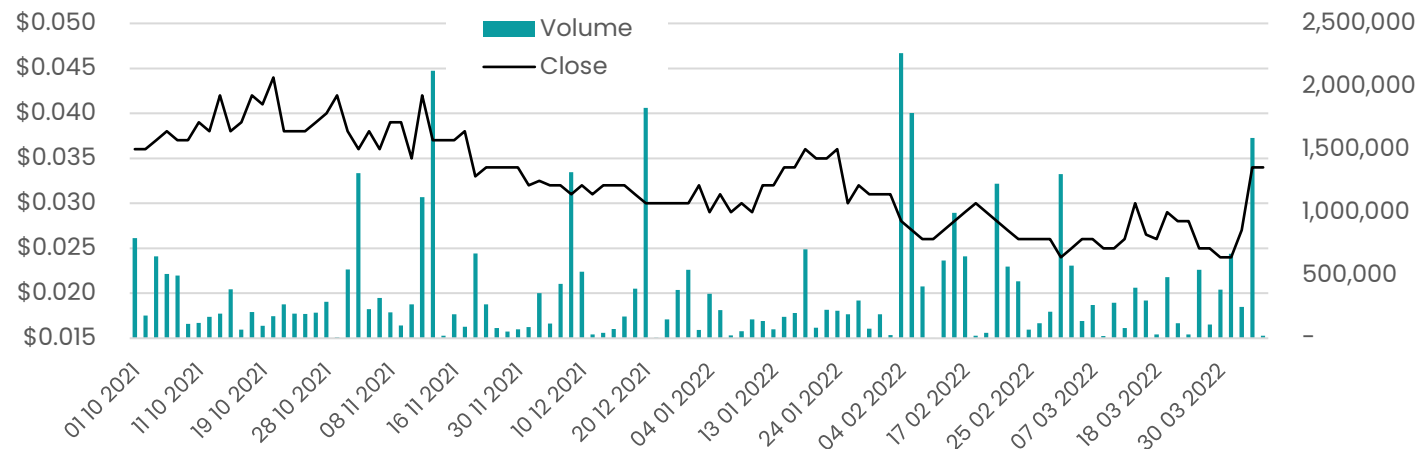
## Major Shareholders

<b>Datt Capital</b>	~11.2%
<b>Graeme Kirke</b>	~10.3%
<b>Rechner Group</b>	~8%
<b>Top 20 Shareholders</b>	~51%

<sup>1</sup>Closing price on 3 May 2022

<sup>2</sup>Cash balance at 31 March 2022

## Share Trading – 6 months



## Board and Management



**Stuart Rechner**  
Executive Chairman  
BSc (Geology) LLB MAIG  
MAusIMM MSEG GAICD



**Dr David DeTata**  
Managing Director  
BSc MSc PhD  
(Chemistry) MBA GAICD



**Anthony McIntosh**  
Non-Executive Director  
BCom GAICD



**Neil Chalmers**  
Exploration Manager  
BSc MSc (Geology)  
MAIG



**Dr Chris Yeats**  
Exploration Manager, NSW  
BSc PhD (Geology) MAIG



# Strong Near-Term News Flow

Multiple price catalysts ahead in the coming months

## Cobar Basin – Achilles 1

- ✓ Landholder access secured
- ✓ Co-funding already secured from the NSW Government
- ✓ Diamond Drill program designed and budgeted
- ✓ UltraFine+ Soil Geochemical Sampling Completed
- Assays pending and due imminently
- Site visit currently underway to refine drill locations
- **Drill program set to commence at Achilles 1 Cu-Au Prospect in Q3**

## Isa North - Nardoo

- ✓ Tenement transfer from Newcrest complete
- ✓ Prospect targeting complete
- ✓ Landholder access secured
- Native title survey to commence this month
- **Drilling program set to commence in July targeting Tier-1 Cu-Au Prospects**

## Canobie Project

- Infill Gravity Survey this quarter over interpreted ore junctions
- Gravity inversions to refine intrusion geometry and generate Ni-Cu drill targets
- Multiple JV Partners evaluating

- ✓ Milestone complete
- Future milestone

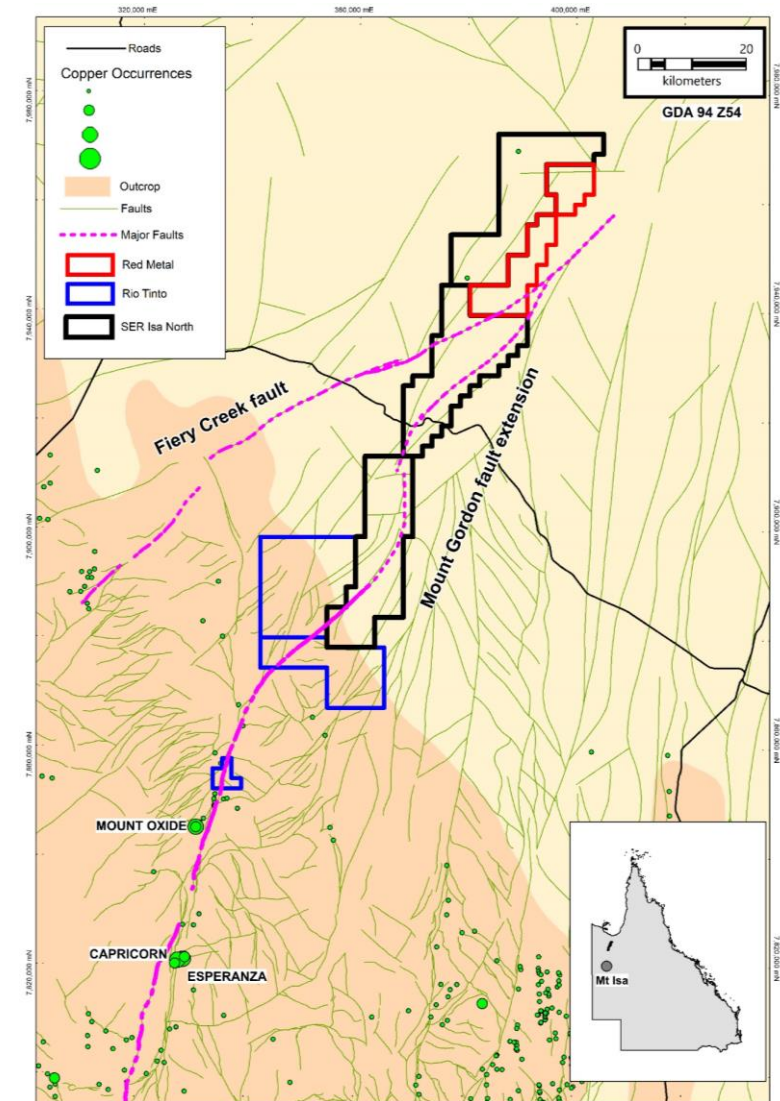




# Isa North, QLD

## A Province Scale Copper-Gold Opportunity

- Located 200km NNE of Mt Isa in the NW Mineral Province, highly prospective for Iron Oxide Copper-Gold (IOCG) mineralisation
- Acquired from Newcrest (ASX:NCM) in May 2021 – aligns with SER’s frontier strategy of targeting extensions of productive Tier-1 metalliferous districts undercover with limited historical exploration
- Captures the northern undercover extension of the mineralised Mt Gordon Fault Zone which hosts Gunpowder and Capricorn deposits
- Over 80km of strike along the structural corridor that contains numerous fault bends and intersections favourable for hydrothermal fluid flow
- Newcrest retains First Right of Refusal: can match an offer to purchase the project by a third party<sup>1</sup>



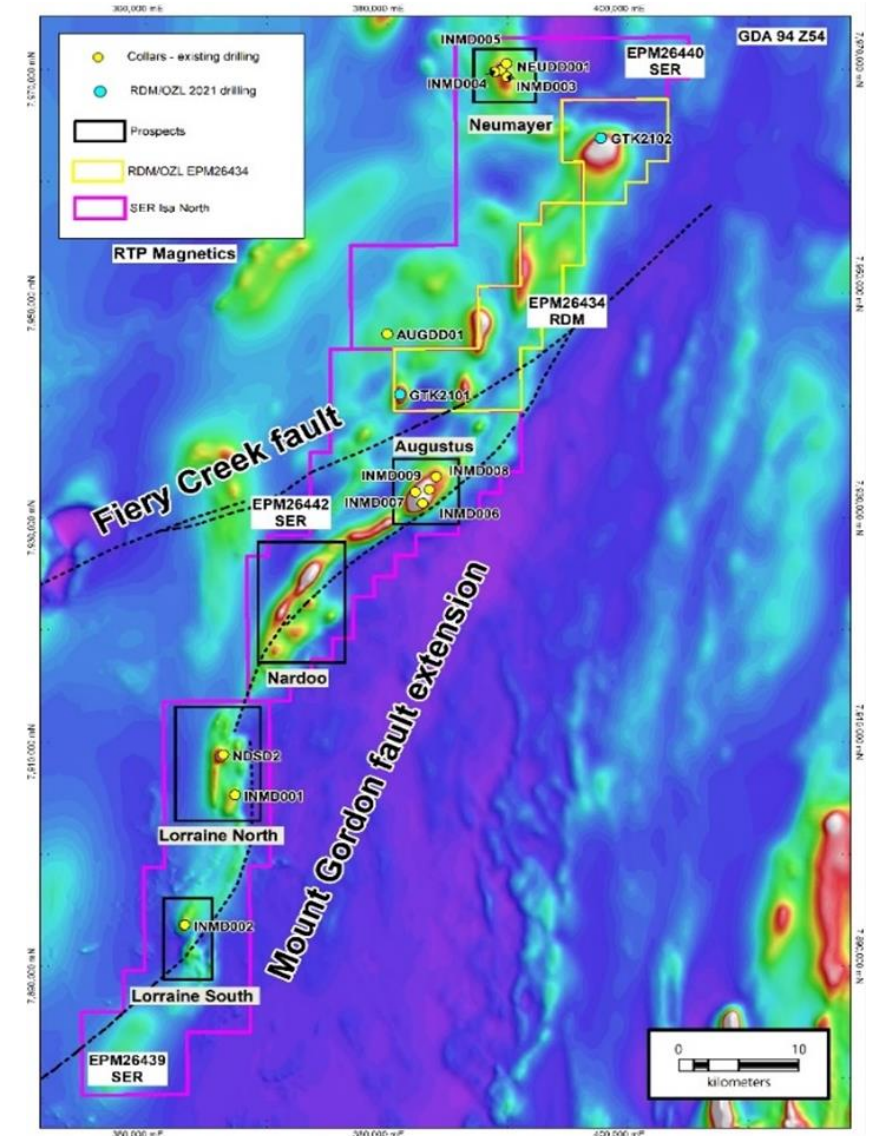
Isa North Project over interpreted faults

<sup>1</sup> ASX: SER Announcement: May 2021

# Isa North, QLD

## Standing on the shoulders of giants

- Drilling the targets previous explorers couldn't reach
- At Lorraine North (INMDD001) intersected weak chalcopyrite in hydrothermal breccia and carbonate veins<sup>1</sup>
  - ✓ Cu enrichment zone (>100ppm) from 344-354m
  - ✓ **Interpreted Tier-1 halo intercept** within a >5km hydrothermal system – requires follow up
- Landholder agreement recently secured providing access to a key part of the project area previously inaccessible
- Red Metal Limited (ASX:RDM) intersected 44.4m of hydrothermal ironstone and breccia at GTK2101, returning copper assay numbers up to 0.34% providing proof of concept<sup>2</sup>
- **SER targets finalised and drilling set for July**



RTP Magnetics and previous drill hole location at Isa North

<sup>1</sup> ASX: SER Announcement April 2022

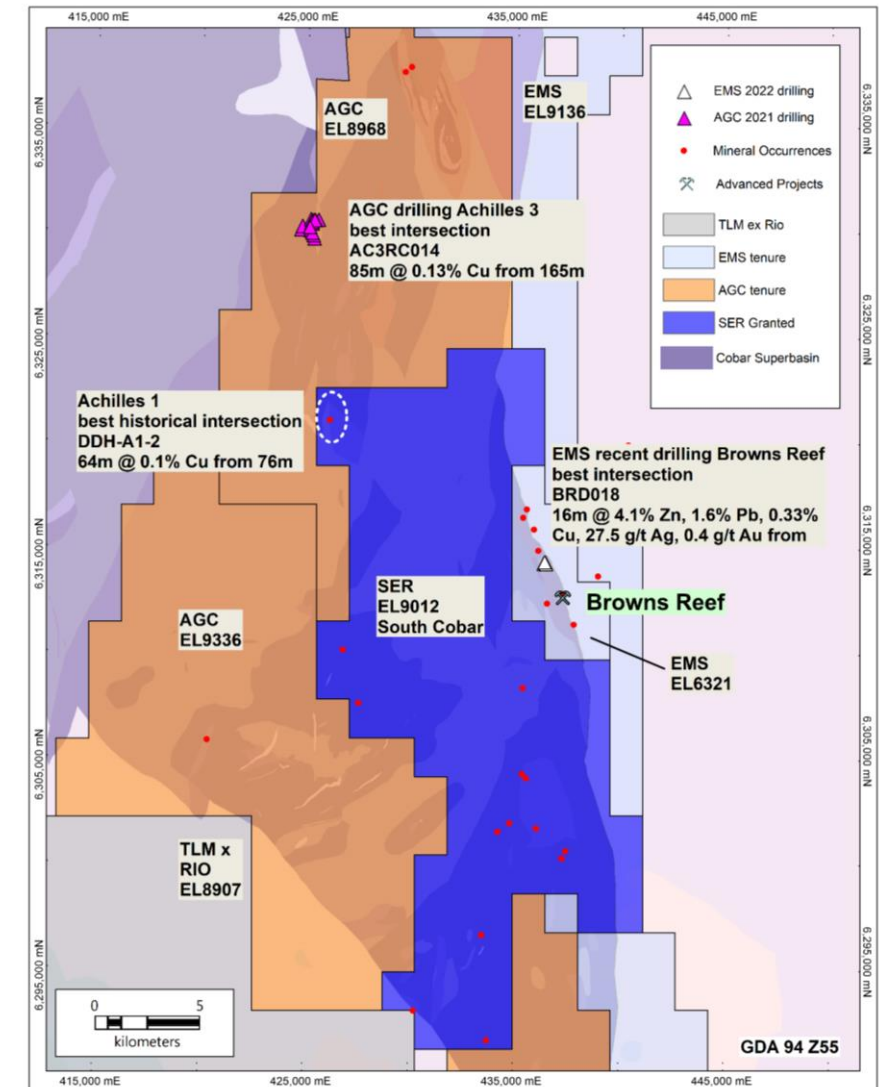
<sup>2</sup> ASX: RDM Announcement January 2022



# South Cobar, NSW

## The Next Exploration 'hot-spot'

- Located in the Cobar Basin – a proven mineral region hosting recent discoveries including the Federation Deposit (ASX:AMI) and major acquisitions (Metals Acquisition Corp US\$1.1 billion for CSA copper mine)
- Previous exploration:
  - In 2005, Western Plains Gold drilled two diamond drillholes at Achilles 1
  - Hole DDH-A1-2 drilled to 300.4m returned peak values of 0.33% Cu from 90m to 92m, within a **64m zone averaging 0.10% Cu**, from 76m to 140m
- Australian Gold and Copper (ASX:AGC) intersected **85m @ 0.13% Cu from 165m in RC hole from Achilles 3** to the north along the Achilles shear<sup>1</sup>
- Eastern Metals (ASX:EMS) reported High grade Zn assay results from drilling at the Browns Reef Zn-Pb-Cu VMS deposit including **12.5m @ 8.1% Zn, 0.12% Cu**<sup>2</sup>



South Cobar Project and nearby explorers

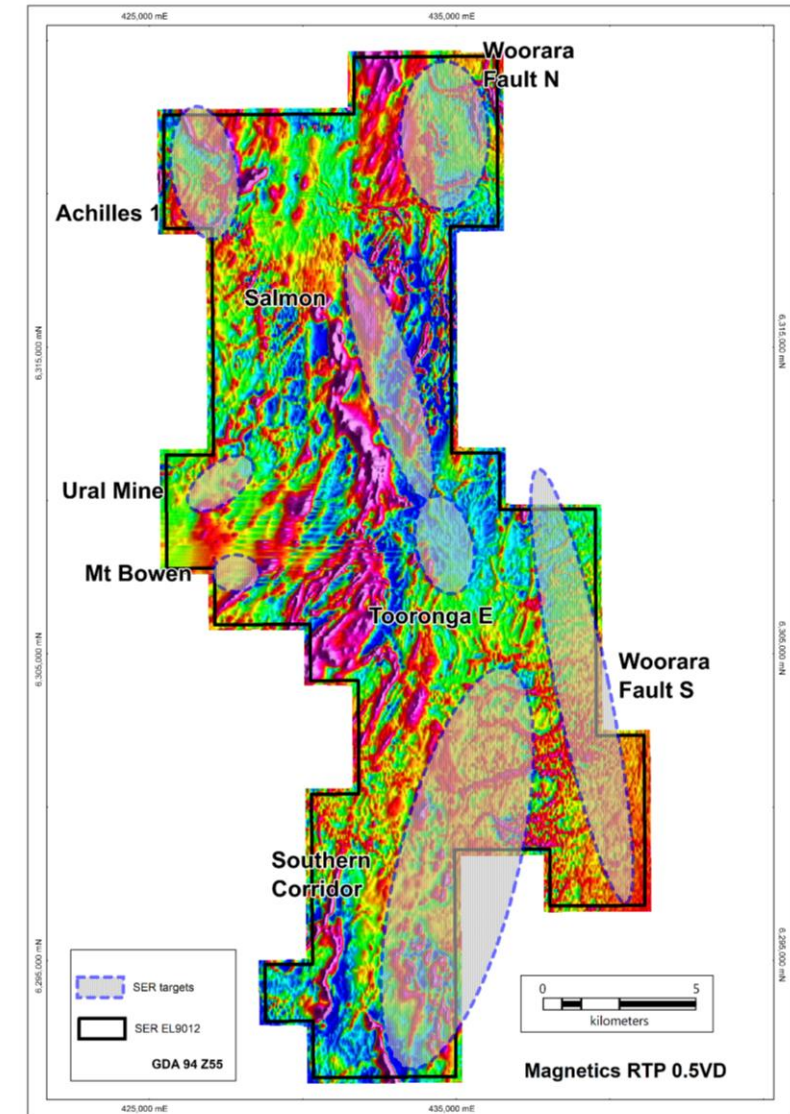
<sup>1</sup> ASX: AGC Announcement September 2021

<sup>2</sup> ASX: EMS Announcement April 2022

# South Cobar, NSW

## Achilles -1 set to drill this year

- Target rich region with eight targets identified for followup<sup>1</sup>
- Airborne magnetic/radiometric survey undertaken over entire exploration licence in August 2021 at 100m E-W spacing
- *Ultrafine<sup>TM</sup>* next gen soil geochemistry sampling program now complete over Achilles 1 Cu-Au Prospect to aid in drill targeting
- Soil survey collected 250-samples covering a 400m x 250m grid over a 4km x 4km area surrounding the Achilles prospect – **results imminent**
- GSNSW New Frontiers Drilling grant (\$120K) awarded<sup>2</sup> with site recon visit now underway prior to a **drill program scheduled for Q3**
- Five-hole, 1700m diamond drilling program designed to test for Cobar-style Cu-Au mineralisation associated with the Achilles shear



South Cobar targets over 0.5VD RTP Magnetics RTP

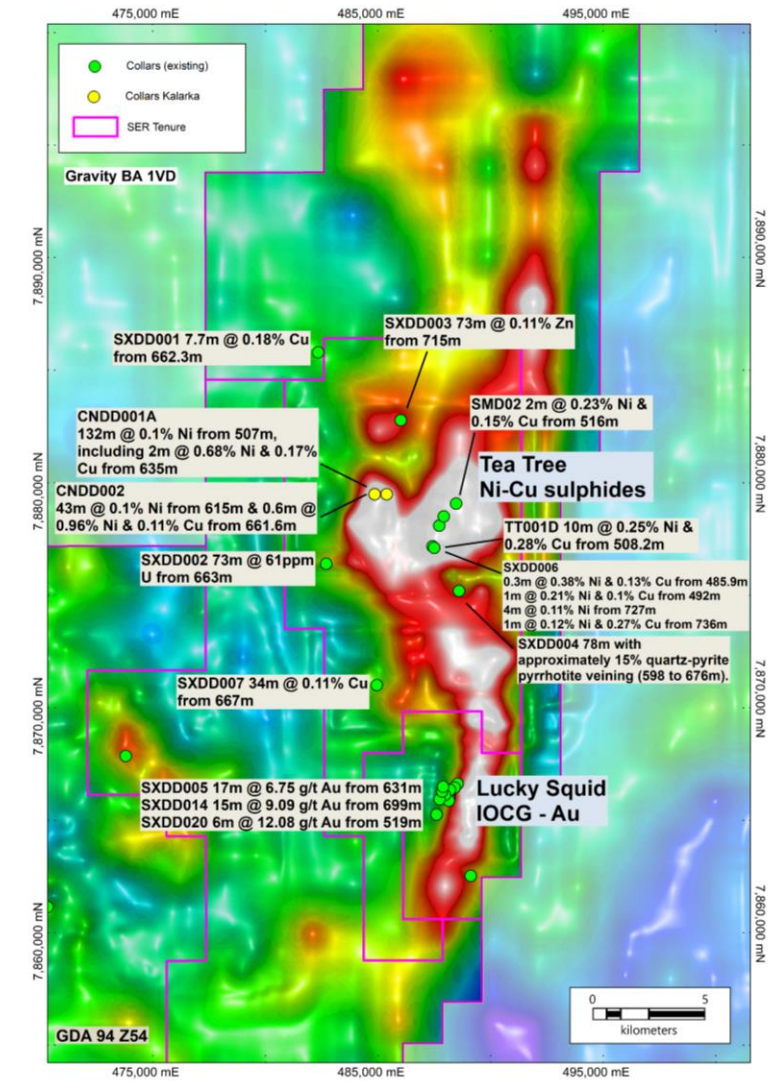
<sup>1</sup> ASX: SER Announcement June 2021

<sup>2</sup> ASX: SER Announcement January 2022

# Canobie Domain, QLD

## A Polymetallic Prize

- Located 150km NE of Cloncurry in a district with an exceptionally high strike ratio of mineralisation in drilling
- Captures ~2,000km<sup>2</sup> of the of the Mt Isa Eastern Succession, including a 100km N/S swath of the Quamby fault
- Mt Isa Eastern Succession is a proven mineral region, which includes the giant Ernest Henry mine located 140km south along the same geological fault
- Large gravity feature at Tea Tree explored since 1990's for IOCG's and Ni sulphides – focus on Tea Tree Ni-S and Lucky Squid high grade gold
- Revised geological modelling places the limited basement drillholes into context – highlighting the untested prospectivity of the system
- SER has already hit high-grade gold and Ni-Cu Sulphides in previously drilling at Canobie, now searching for the source<sup>1</sup>



Historical drill holes surrounding the Kalarka Prospect over a Bouguer Gravity Image.. Note the elongate density highs (interpreted chonoliths) extending north and south from the ore junction.

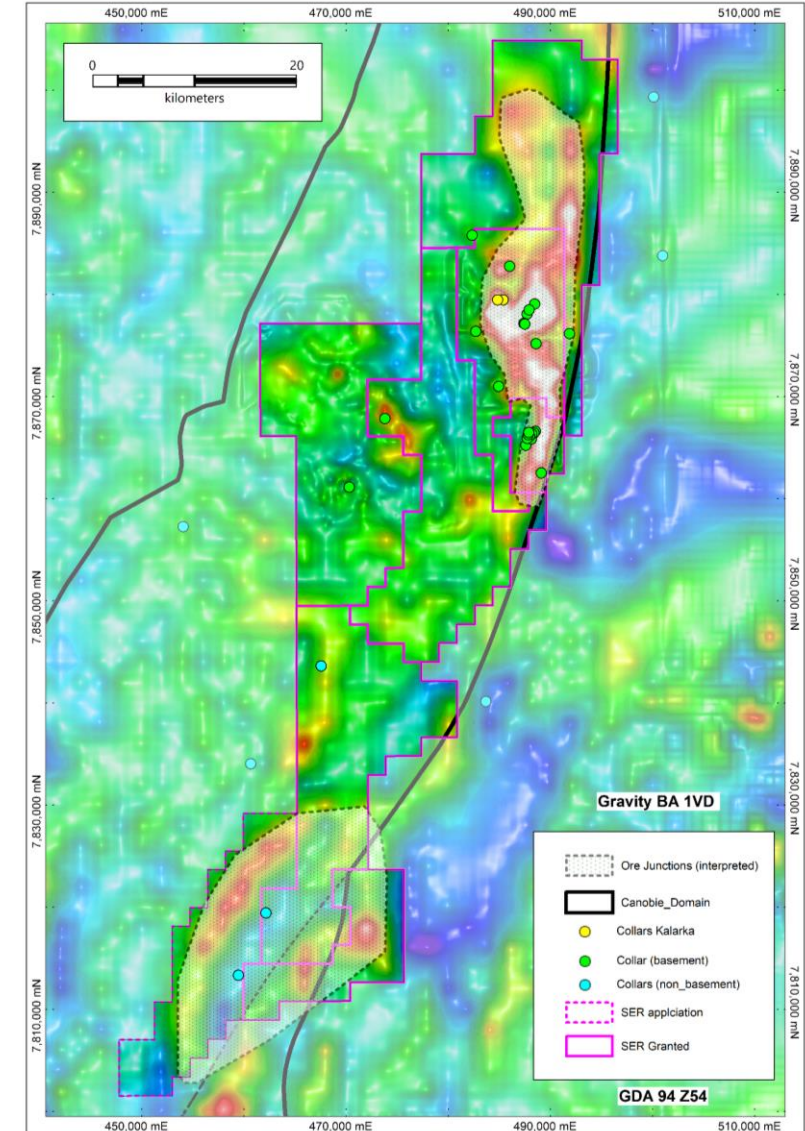
<sup>1</sup>ASX SER Announcement December 2021



# Canobie Domain, QLD

## The next Nickel Province

- Ore junctions (**fold controlled cluster of intrusions**) with inferred pipe like intrusions (**chonoliths**) host mineralisation systems such as Nebo-Babel Ni-Cu-PGE (Musgraves, WA) and Nova-Bollinger (Fraser Range, WA)
- Identification of two interpreted **ore junctions within the Canobie project**, one with semi massive sulphides and the other untested adjacent to the crustal scale Gidyea Suture Zone based on the interpretation of the VRMI magnetics and gravity inversion
- Detailed gravity infill survey commissioned to further refine mafic intrusive bodies and aid in drill targeting
- Extensive project review underway including re-logging available drill core, selected geochemical analysis, and petrology and petrophysical data collection<sup>1</sup>



Bouguer Gravity 1 VD image with interpreted ore junctions

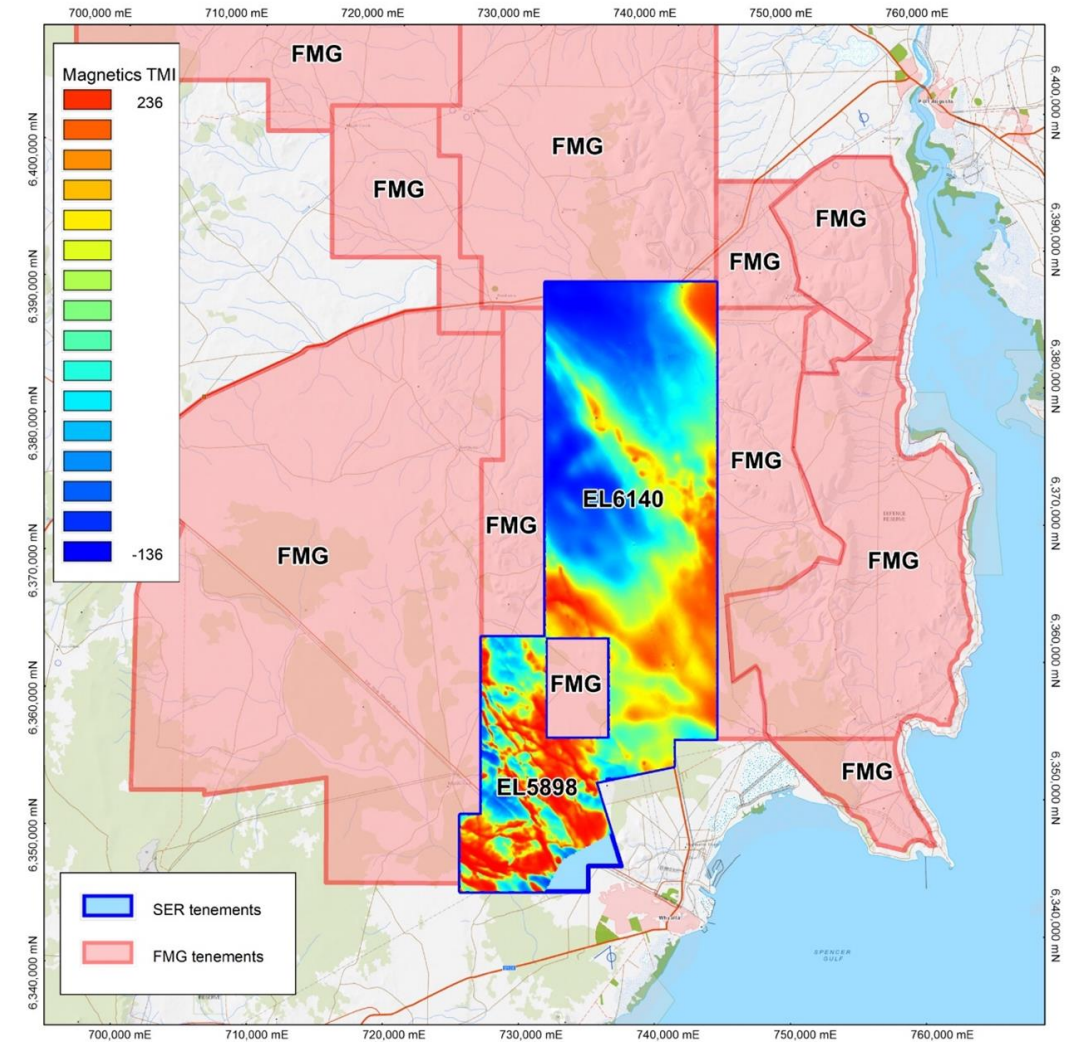
<sup>1</sup>[ASX SER Announcement December 2021](#)



# Myall Creek Cu Project

## Hidden value ready to be unlocked

- FMG (ASX:FMG) earn-in and JV agreement covering the Myall Creek Cu Project signed 2019
- FMG to earn 80% interest by sole funding \$1.5m exploration<sup>1</sup> **(minimum 1500m drilling)** over 5 years
- Compelling exploration opportunity in a prime location in Olympic Copper-Gold Province, home to giant producing mines: Olympic Dam, Prominent Hill and Carrapateena
- Historical drilling intersected occurrences of copper and other base metals; basement remains untested
- FMG completed detailed magnetic / radiometric survey in 2020, native title agreement to be finalised prior to gravity survey and drill program



Myall Creek JV project area covered by Magnetic survey image

<sup>1</sup> ASX: SER Announcement March 2020

# Investment Highlights

## **Targeting Tier-1 discoveries undercover in Greenfield regions across Australia**

The industry needs to focus on frontier regions to find the next discovery – and they won't be at surface

## **A scientific approach to project generation - increasing the probability of success**

Extensive experience in early-stage exploration and multidisciplinary scientific interpretation of datasets

## **Strong collaborative relationships with government agencies and industry leaders**

Our willingness to engage industry leaders ensures SER is at the forefront of exploration

## **Deep project pipeline spreads exploration risk and allows the leveraging of resources**

Sharing risk and reward with JV partners allows the team to continue to generate multiple new projects







## For further information:

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