





# Leaders in Frontier Mineral Exploration across Australia



## SCIENCE DRIVEN

- Internal project generation using the latest Government datasets
- Engage leading industry specialists to generate the best targets



## FRONTIER EXPLORATION

- Secure large land holdings of undercover extensions to mineralised terrains
- Utilise cutting-edge emerging exploration technologies and techniques to increase the chance of discovery



## SHARE RISK & REWARD

- Form Joint Ventures with well funded partners
- Actively pursue Government co-funding opportunities



### COMPETENT PERSONS STATEMENT

The technical information in this announcement complies with the 2012 Edition of the Australasian Code for Reporting of Exploration Results, Mineral Resources and Ore Reserves (JORC Code) and has been compiled and assessed under the supervision of Mr Stuart Rechner BSc (Geology) MAIG MAusIMM, a Member of Australian Institute of Geoscientists and the Australasian Institute of Mining and Metallurgy. Mr Rechner has sufficient experience relevant to the styles of mineralisation and types of deposits under consideration and to the activity being undertaken to qualify as a Competent Person under the JORC Code. Mr Rechner is a Director and shareholder of SER and consents to the inclusion in this report of the matters based on his information in the form and context in which it appears.

## Our Team



### Stuart Rechner, Executive Chairman

*BSc (Geology) LLB MAIG MAusIMM MSEG GAICD*

- Experienced company director & exploration / development geologist
- Director at Kingston Resources Ltd, developing 3.8Moz Misima Gold project
- Former Australian diplomat with postings to Beijing and Jakarta



### David DeTata, Managing Director

*BSc MSc PhD (Chemistry) MBA GAICD*

- Accomplished scientist and executive with over 20 years experience
- MinEx CRC Science Advisory Committee Member
- Experienced company director with previous roles in mineral exploration and technology companies



### Anthony McIntosh, Non-Executive Director

*BCom GAICD*

- Accomplished company director with board positions in several listed and unlisted companies, including gold and copper explorers
- Board member of Echo Resources Ltd until takeover by Northern Star Resources



### Neil Chalmers, Exploration Manager

*BSc MSc (Geology) MAIG*

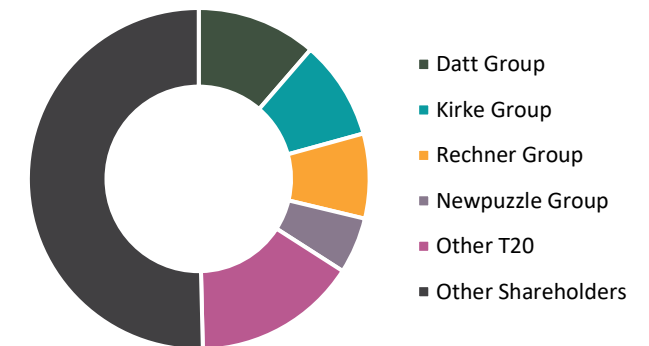
- Exploration geoscientist with over 15 years experience in multiple terrains and commodities across Australia
- Extensive experience in all mineral exploration methodologies

## Investment Highlights & Company Newsflow

- ✓ Tight capital structure with Top 20 holding 50% of Shares on Issue
- ✓ Two co-funded drill programs in 2021
- ✓ Pipeline of near drill ready greenfield projects to follow
- ✓ SER-FMG Joint Venture at Myall Creek
- ✓ Resource upgrade at Ambergate HMS project to commence

## Capital Structure

ASX Code	SER
Shares on Issue	240m
Unlisted Options	11.8m
Share Price	\$0.038
Market Cap (25/10/21)	\$9.1m
Cash (30/9/2021)	\$2.6m



## 100% Owned Copper-Gold Projects

- East Tennant Copper-Gold
- Isa Undercover Initiative
- Cobar Basin & Lachlan Fold belt

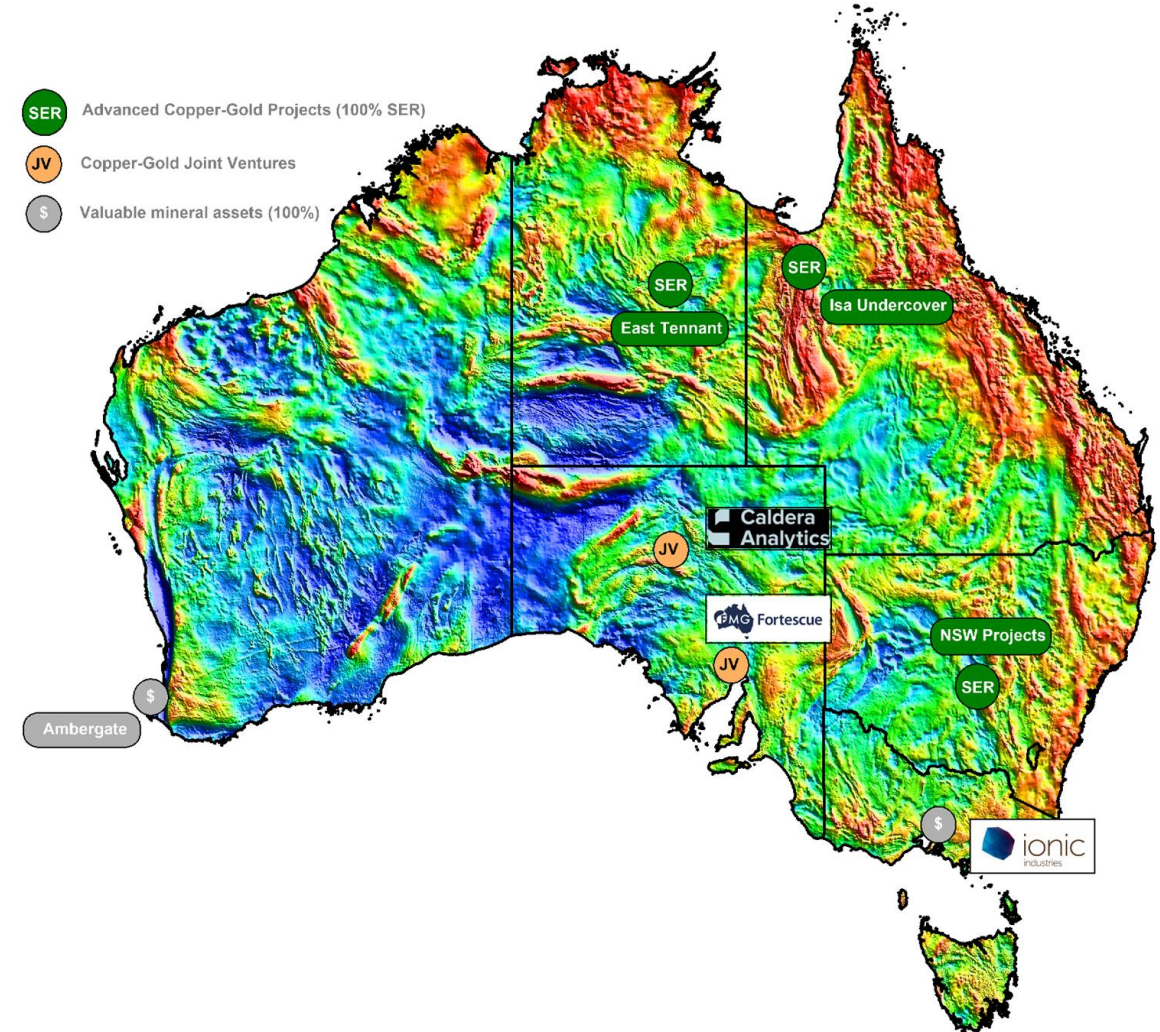
## Joint Venture Exploration

- Myall Creek Copper-Gold JV with FMG
- Mabel Creek Copper-Gold JV with Caldera Analytics

## Valuable Minerals Project

- Ambergate Heavy Mineral Sands

## Equity Holdings & Investments

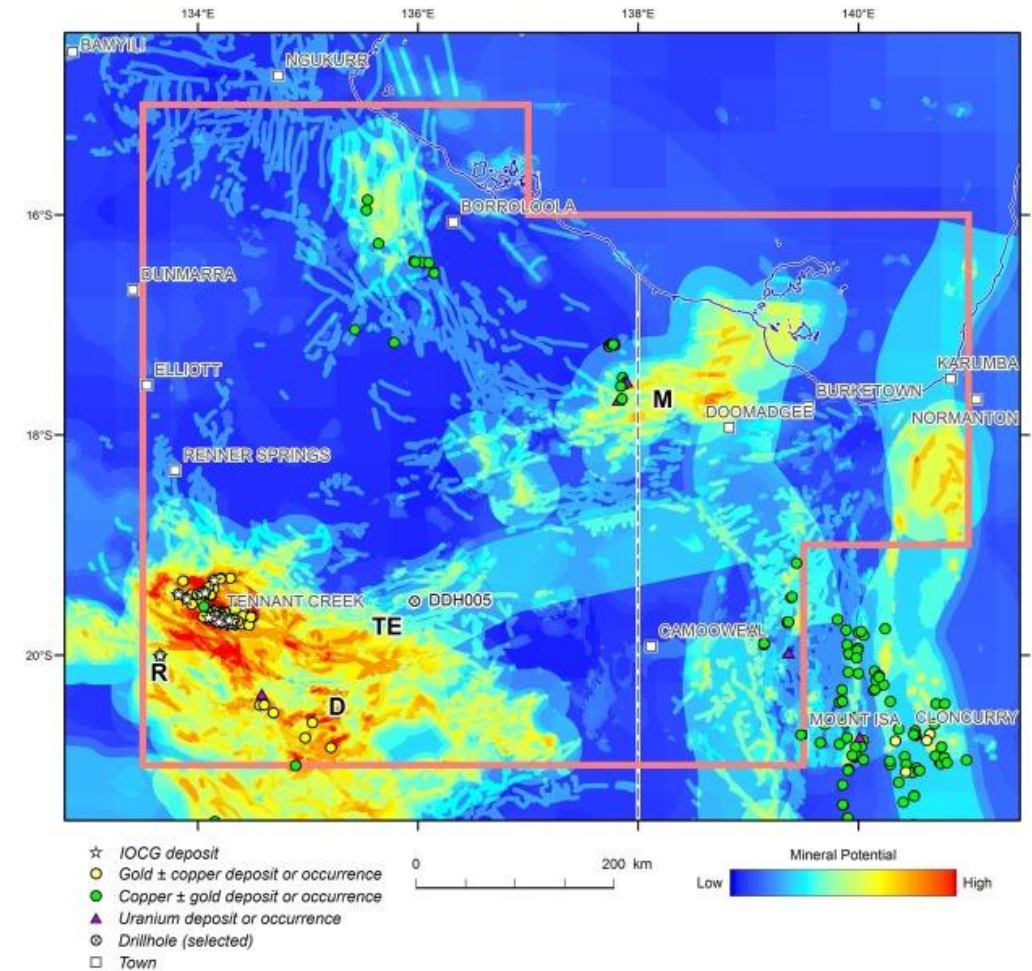




## Project Background

- Highly prospective but underexplored region located between the major copper-gold districts of Tennant Creek and Mt. Isa
- *Resourcing the Territory Initiative* and the *Exploring for the Future* in the Barkly region (NTGS co-investing and collaborating) programs provided crucial datasets which lead SER to the region
- Broader region characterised by geological features favourable to host mineral systems, including large-scale changes in lithospheric architecture and zones of high electrical conductivity in the crust and mantle

**RESOURCING  
THE TERRITORY**



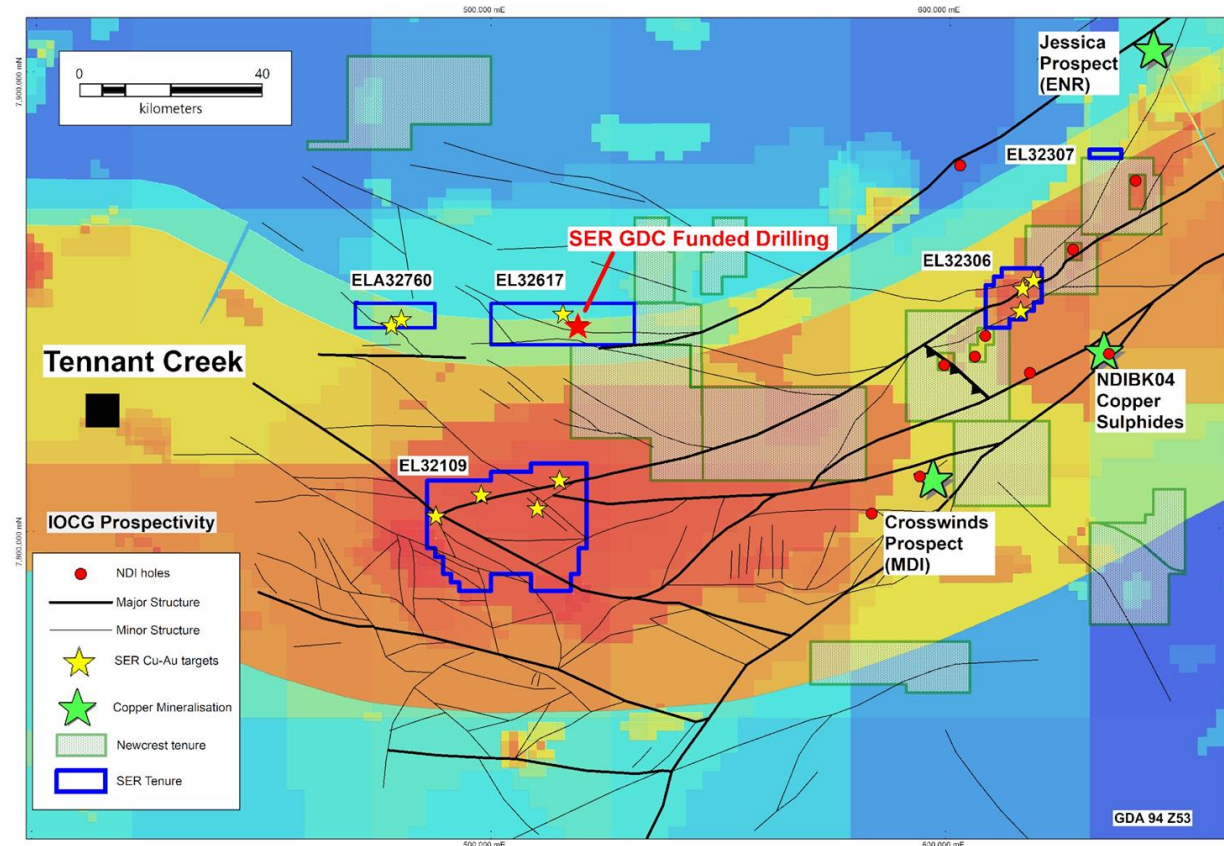
Potential for pre-1800 Ma IOCG deposits in the Tennant Creek – Mt Isa study area (pink outline).

Source: Skirrow R.G., Murr J. et al, 2019 Mapping iron oxide Cu-Au (IOCG) mineral potential in Australia using a knowledge-driven mineral systems-based approach. *Ore Geology Reviews*, 119, 103011

<sup>1</sup>Skirrow R.G., Murr J. et al 2019

## Project Background

- SER secured EL32109 while the East Tennant Ridge was under the “No Applications Allowed” (NAA) status
- Applied for 100 blocks (EL32306) and 60 blocks (ELA32307) after the NAA was lifted on 07 October 2019
- Awarded 39 blocks (EL32307) and 4 blocks (EL32306) in a highly competitive process – we are in the right region!<sup>1</sup>
- Secured additional exploration licences based on the unprecedented level of new geoscience data released at outcrop to lithospheric scale (EL32617 & EL32760)
- Five exploration licenses (ELs) – 100% owned by SER – covering 1300sqkm – limited shallow drilling



SER's East Tennant Copper-Gold Project over Geoscience Australia IOCG Prospectivity map with SER targets (yellow stars) and copper mineralisation (green stars)

<sup>1</sup> ASX: SER Announcement 14 February 2020

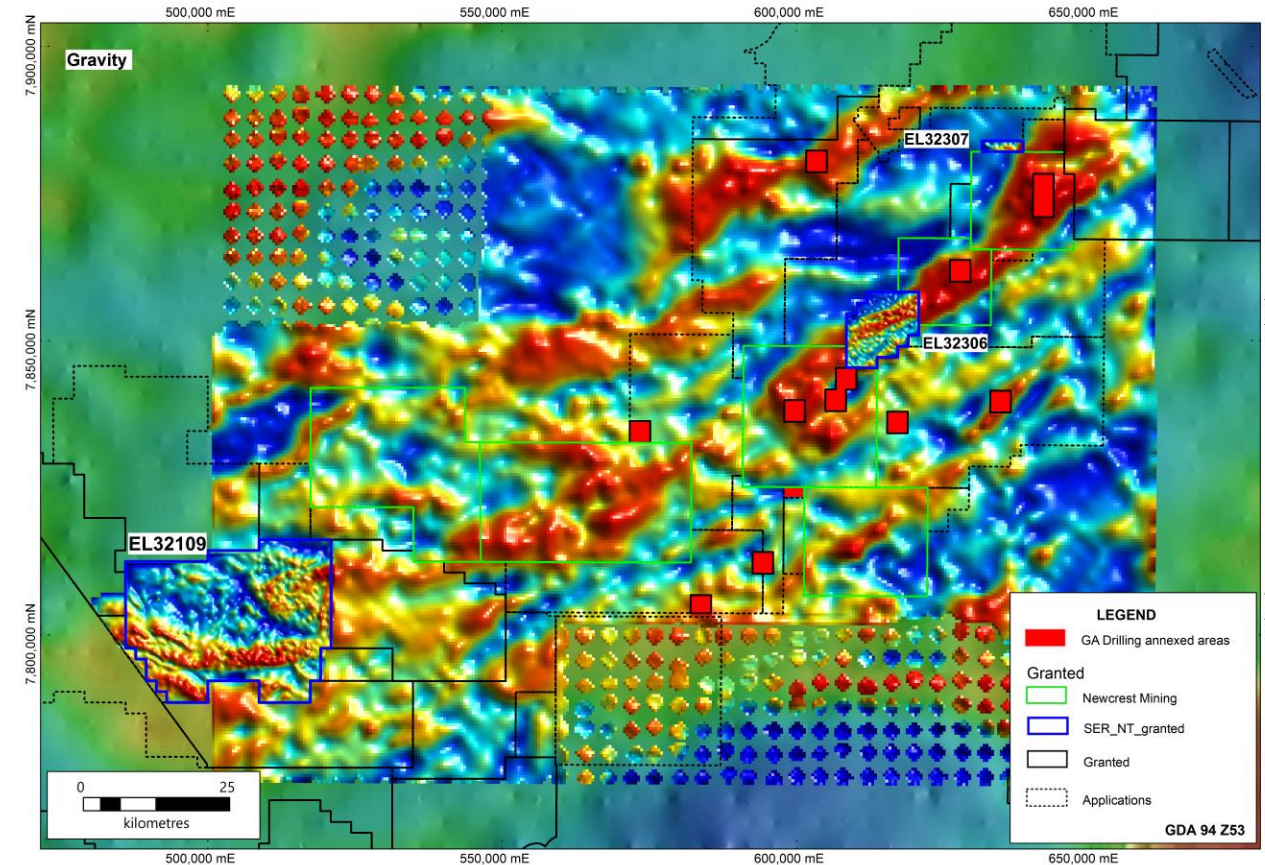


## Exploration program to date

- Gravity survey completed December 2020 over EL32109, EL32306 & EL32307 co-funded by Northern Territory Government (GDC Round 13) – now open file data
- Collected 3094 new stations over the three tenements
- Gravity modelling identified nine compelling IOCG targets, four within SER's EL32109, three within SER's EL32306 and two that were in open ground – now pegged by SER (EL32617 & EL32760)<sup>1</sup>
- None of the targets identified have ever been drill tested



**RESOURCING  
THE TERRITORY**



SER's East Tennant Copper-Gold Projects showing regional gravity image with new data

<sup>1</sup> ASX: SER Announcement 12 January 2021

## Program to date

- MinEx CRC National Drilling Initiative (NDI) stratigraphic drilling completed in December 2020 confirmed the prospectivity of the region – changed everything
- Neighbouring explorers reported significant copper oxide mineralisation at surface<sup>1</sup> at the Crosswinds Prospect (ASX:MDI) and copper anomalism in water bore samples<sup>2</sup> in as part of the Jessica Copper Project (ASX: ENR) confirming the regions prospectivity
- Gravity survey over EL32617 revealed a compelling gravity and magnetic anomaly in March 2021<sup>3</sup>



## Explorers, boffins all agog about new-found resident at Tennant Creek 11 March 2021



BARRY FITZGERALD

Independent Journalist



*Nimble Juniors lining up to test the new frontier in copper/gold hit at Stawell has tongues wagging and Tolga excited nervous about running horses.*

A bunch of junior explorers are as excited as junior explorers about the copper/gold potential of the Northern Territory's Barkly region confirmed in a government-sponsored drilling program.

The East Tennant region, as the boffins are calling it, is now a hot spot yet.

## **\*\*PRESS RELEASE\*\* DRILLING DATA UNLOCKS MINERAL POTENTIAL IN THE NORTHERN TERRITORY**

March 5, 2021

## 'Stunning' results from government-led drilling in East Tennant

AUSTRALIA'S National Drilling Initiative, a bold new approach to government to encourage greenfields mineral exploration delivered spectacular initial results.



Exploration / Development > Discovery

03 August 2021

The MinEx Cooperative Research Centre (a joint venture between the private sector and academia) and Geoscience Australia have released data and core tray photos from 10 stratigraphic drill holes extending across the newly defined East Tennant region.

## Exploration efforts booming in the Barkly

Tenements in Tennant Creek are providing promising prospects for companies that are exploring the region. Several projects are underway across the Barkly. Emmerson Resources is searching a 1,700km<sup>2</sup> gold and copper tenement near Tennant Creek. Verdant's Ammaroo phosphate exploration is south of the town. Newcrest Mining, Rio Tinto and Castle Resources are among the many other companies hoping their exploration will yield exciting results. East of Tennant Creek, Strategic Energy Resources (SER) is also seeking gold and copper. Their work is being helped by the Territory Government's \$26 million Resourcing the Territory initiative, including grants and high quality data provided by the Northern Territory Geological Survey (NTGS) team and staff from Geoscience Australia. The Managing Director of SER, Dr David DeTata, says the initiative played a key role in helping the company execute its strategy which is centered around true greenfields exploration. "This collaborative approach to exploration will aid explorers to address large-scale issues associated with regional exploration programs. This, in turn, will encourage future greenfields exploration in new undiscovered terranes throughout the Northern Territory," he said. Making the NTGS data available led to 60,000 km<sup>2</sup> of the Barkly being covered by over 100 new exploration licence applications since 2019. They were from multiple companies, many of them first-time investors in the Territory. This is expected to lead to tens of millions of dollars in new private sector exploration investment in the coming years. Emmerson Chief Executive, Rob Bliss, says the NT Geological Survey data has transformed Tennant Creek into one of Australia's "new and exciting exploration hotspots". "Exploration and the discovery of new gold and copper deposits is the key to revitalising Tennant Creek as an exploration and mining hub," he said. The company has spent more than a decade working in the region and recently partnered with Traditional Owners as part of a landmark joint venture over the Jasper Hills project, which includes jobs and training opportunities. "Hopefully many of us will share exciting mining news from Tennant Creek. As part of the government's Resourcing the Territory initiative, we are covering a significant portion of the region. To find support to resourcing the region."

is set to become one of Australia's most significant releases of data from the MinEx CRC



MinEx CRC: 16 March 2021



Image supplied. Strategic Energy Resources. SER have carried out gravity surveys in the East Tennant region.

<sup>1</sup> ASX: MDI Announcement 23 December 2020

<sup>2</sup> ASX: ENR Announcement 19 August 2020

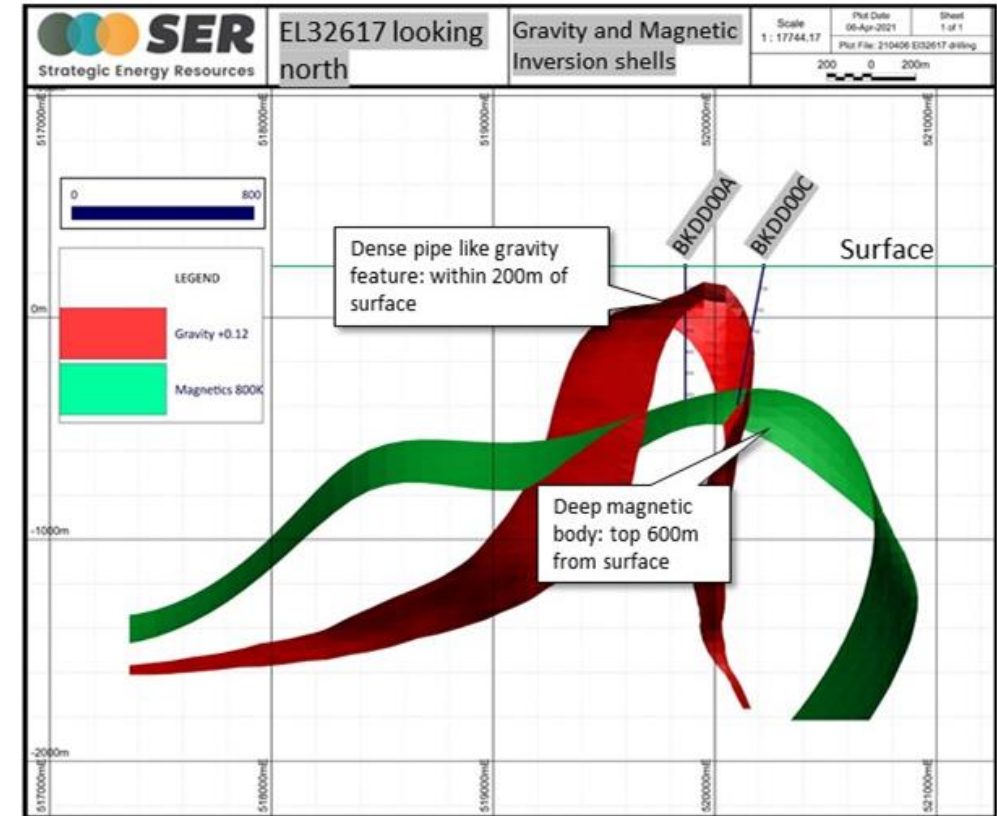
<sup>3</sup> ASX: SER Announcement 5 March 2021



# Maiden Drill Program

## 'Cottage' Prospect

- Processing and modelling of new gravity and magnetic data over EL32617 identified an 8km x 5km body with an amplitude of +5mGal on the ground and 150nT in the air<sup>1</sup>
- Central pipe-like response and an associated significant magnetic root system – 200m from surface
- Two deep diamond drill holes were planned to test the gravity and magnetic feature of the Iron Oxide Copper-Gold (IOCG) target
- Awarded Northern Territory Government co-funding in June 2021 to drill the target (\$135k)



Above: EL32617 Cross section of gravity and magnetic inversions (looking north), with SER planned drillholes

<sup>1</sup> ASX: SER Announcement: 7 July 2021

## Drill Program

- Single deep diamond drill hole (75°) to 690.4m depth to test the gravity and magnetic feature
- Core was orientated, geologically logged and structurally logged on-site, petrophysical measurements taken and petrology samples selected to assist in alteration and lithology identification
- On-site core logging suggests the drill hole did not directly intersect a major mineralising system
- Full suite of geochemistry on all basement pending which will be used to determine if observed alteration has IOCG indicative geochemical signatures – data released in 6 months (GDC)



*Above: BKDD001 fly-over during drilling*

<sup>1</sup>ASX: SER Announcement: 30 September 2021



# BKDD001 – Cottage Core

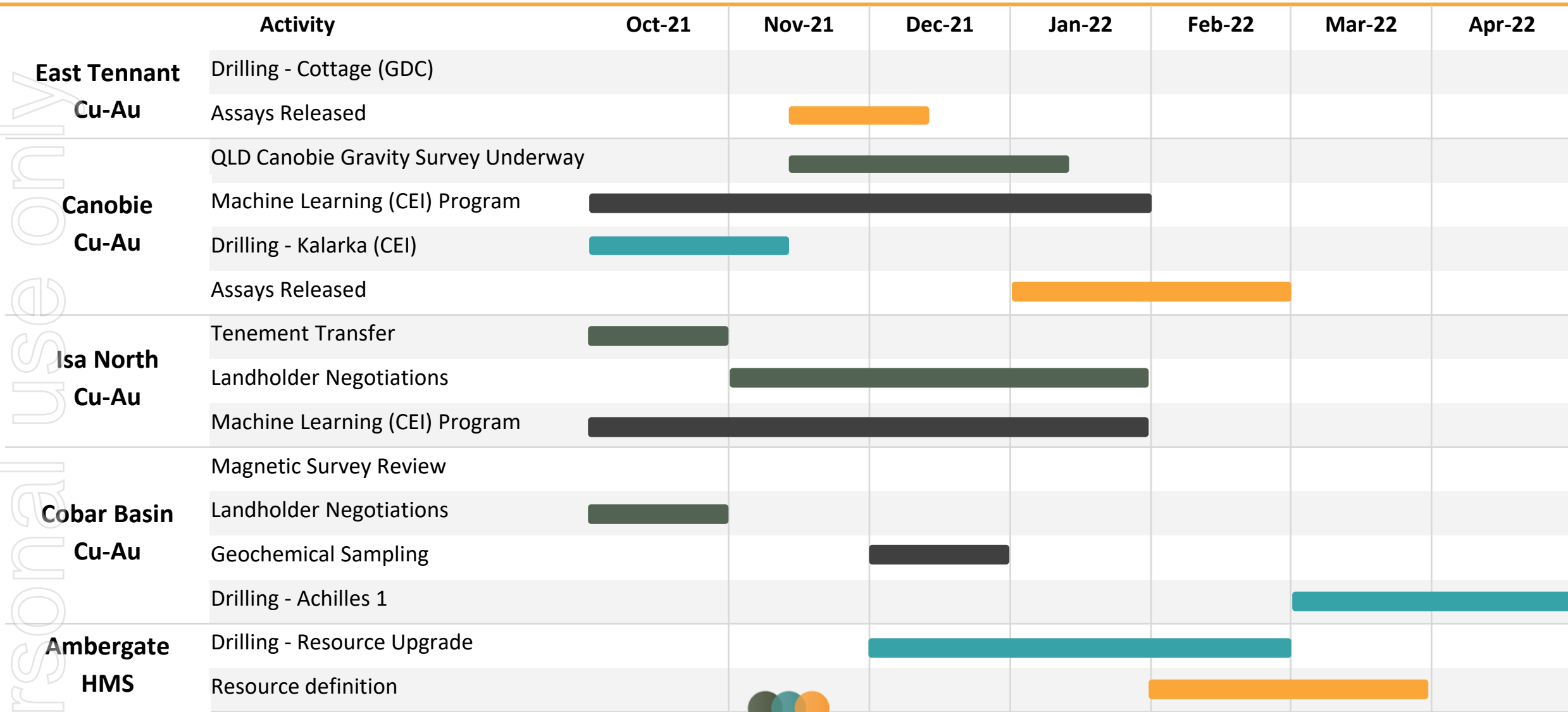
## Drill Core

- Cover – limestones and sediments of the Georgina basin intersected to 204.3m
- Basement – metasedimentary package – possible fine grained mafic sills later in hole
- IOCG type alteration present within hole including fine grained pervasive hematite alteration, localized patchy hematite – carbonate – chlorite breccias: quartz and hematite veins and veinlets common. Trace sulphides observed.
- Re-modelling of target post assays to be undertaken to enhance our understanding of the prospect, our additional EL's and the greater East Tennant area



Above: BKDD001 selected drill core: a) top of basement contact (204m): b) fine grained, hematite bearing metasediment with quartz veining (242m): c) localised (3m downhole width) hematite – quartz – chlorite pervasive alteration – breccia texture (458m): d) zones of intense hematite veinlets (519m)

# Our next phase of growth





# Investor Contact

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FIRST  
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