



**encounter**  
RESOURCES LIMITED

## **RIU Explorers Conference**

Fremantle, WA

15-17 February 2022

**Exceptional leverage to Tier 1 copper exploration**

**ASX: ENR**

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This announcement has been approved for release by the Board of Encounter.

# The Encounter business model



## PROJECT GENERATOR MODEL

Progress project pipeline with a mix of alliances, joint ventures and sole funding

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## TIER 1 TARGETS

Project generation and exploration targeting copper dominant discoveries in world-class mineral belts

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## HIGH QUALITY PARTNERS

Partner with leading mid-tier and major producers which have well supported and talented exploration teams

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## FAST ADOPTION OF NEW DATA AND TECHNOLOGIES

Fast mover, early adopter of new technologies and datasets

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## DATA DRIVEN INSIGHTS

Reduce exploration risk through cost effective and innovative data-driven techniques to rapidly prioritise and assess targets

# Transformational year for Encounter – Copper Focus



**2019-2020**

First mover camp-scale copper position secured across multiple projects – **Northern Territory**



**January 2021**

IOCG style copper-gold-REE in drilling at Aileron – **West Arunta, WA**



**September 2021**

High grade copper intersected at Lamil – **Paterson Province, WA**



**October 2021**

Extensive outcropping copper at Sandover – **Northern Territory**

# BHP

**May 2021**

Earn-in agreement and JV at Elliott Copper – **Northern Territory**



**October 2021**

Demerger and \$10m IPO of belt scale gold project – **West Tanami, WA**



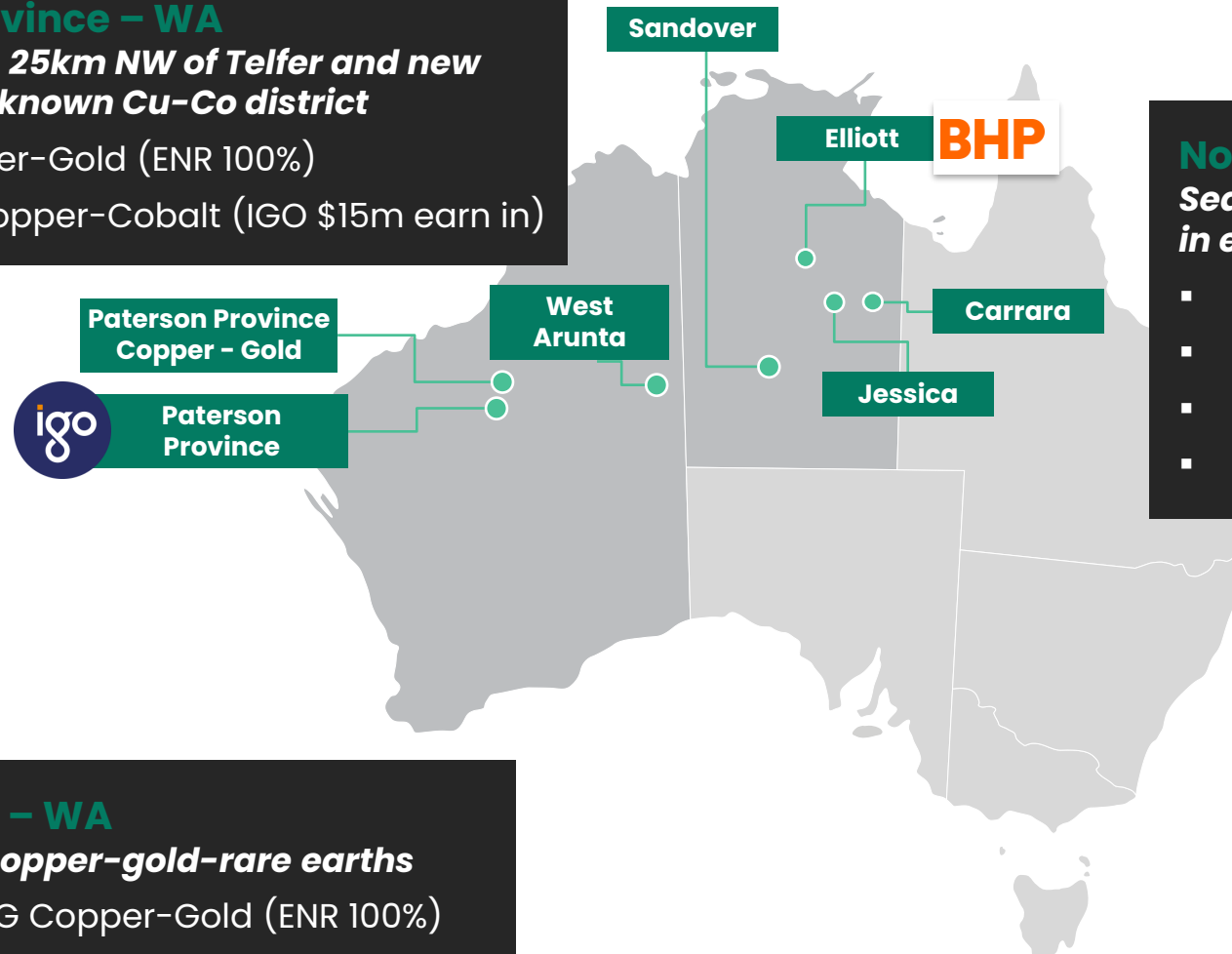
# A premier copper exploration portfolio

Early mover positions in world-class minerals belts attracting Tier 1 partners

## Paterson Province – WA

*Cu-Au System 25km NW of Telfer and new approach in a known Cu-Co district*

- Lamil Copper-Gold (ENR 100%)
- Yeneena Copper-Cobalt (IGO \$15m earn in)



## Northern Territory Copper

*Sediment-hosted copper and IOCG targets in emerging region*

- Elliott Copper (BHP \$25m earn in)
- Jessica Copper (ENR 100%)
- Carrara Copper-Zinc (ENR 100%)
- Sandover Copper (ENR 100%)

## West Arunta – WA

*IOCG targets copper-gold-rare earths*

- Aileron IOCG Copper-Gold (ENR 100%)

# Large scale copper exploration

## Attractive demand side dynamics for copper:

- Significant increase in production required to support the global megatrends of vehicle electrification and decarbonisation
- Greater focus on sustainability supports the development of new, modern mining operations in high quality jurisdictions like Australia

## Attractive supply side dynamics for copper:

- Current discovery and development pipeline will not satisfy the forecast demand increase
- Average global mined copper grades remain in decline
- Increasing portion of global supply coming from higher risk jurisdictions

## Encounter well positioned in three emerging regions in Australia with potential to host large scale copper discoveries

- Validated through joint venture partners and third party interest in 100% owned assets



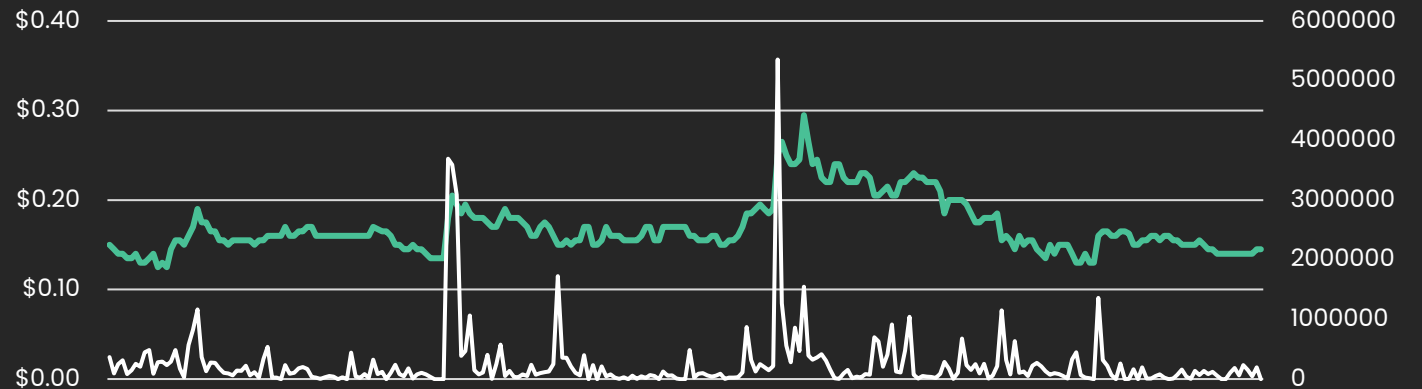
# Encounter at a glance

## Creating value through project generation and discovery

### Capital structure

ASX ticker	ENR
Share price (14/02/2022)	\$0.145
Shares on issue	317M
Options	18M
Market capitalisation	~\$46M
Cash (31/12/21)	~\$3.1M
Enterprise value (net of cash)	~\$43M

### Share price – 12 months



### Major shareholders

Board and Management	~14.2%
IGO	~8.2%
Silver Lake Resources	~5.3%

### Board of Directors



**Mr Paul Chapman**  
Non Executive  
Chairman  
*B.Comm, ACA,  
Grad. Dip. Tax,  
MAICD, MAusIMM*



**Mr Will Robinson**  
Managing  
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LL.M LSE*

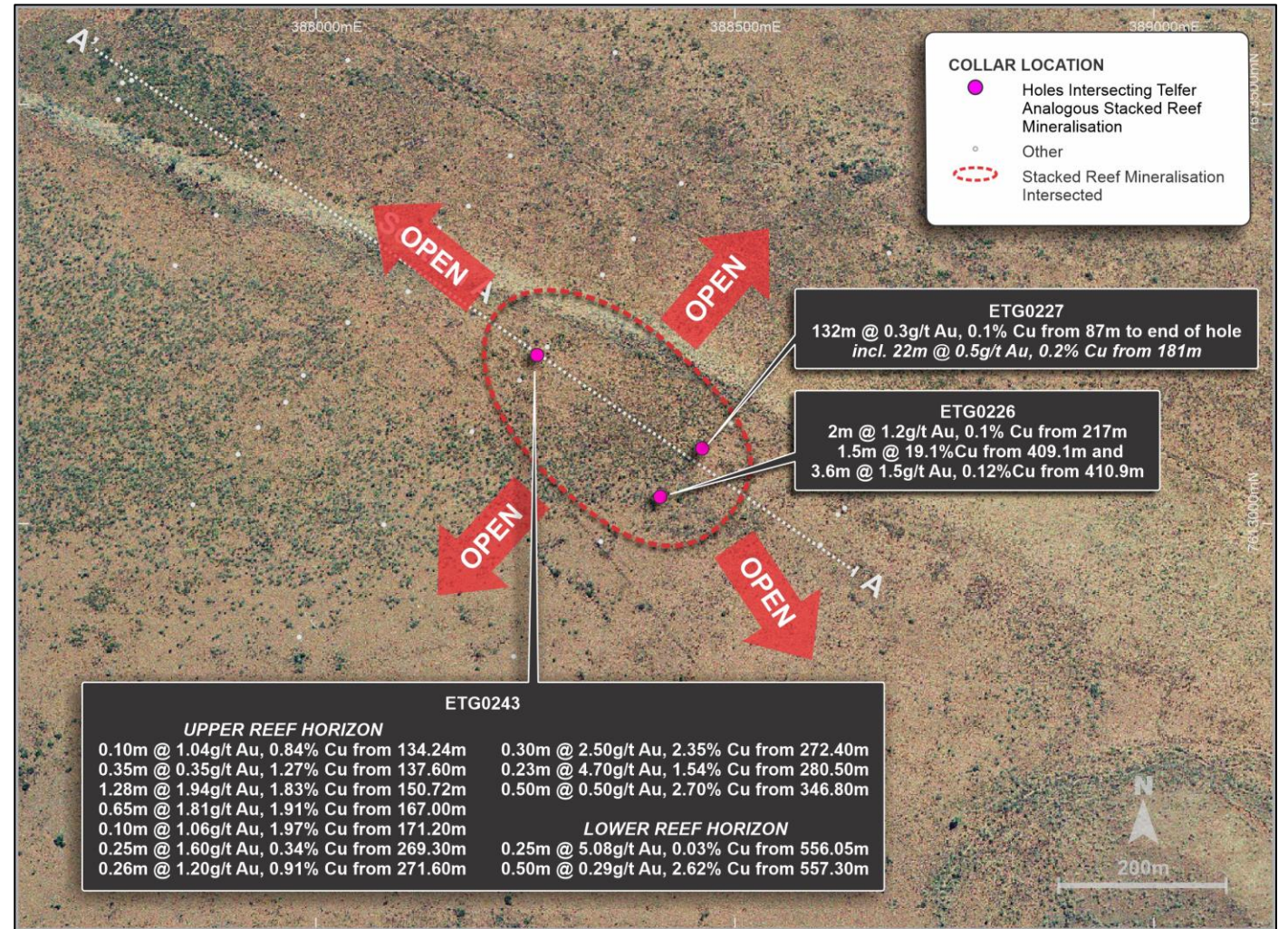
A close-up photograph of several large coils of copper wire, showing the intricate, concentric patterns of the metal strands. The lighting highlights the metallic sheen and the texture of the wire.

# **Paterson Province, Western Australia:** New large scale copper- gold discoveries



# Copper-gold system established at Lamil

- 100% ENR – located 25km NW of Telfer
- Diamond drill program completed in Sept 2021 contained:
  - multiple, stacked, narrow copper-gold reefs (**grading 1-2 g/t Au & 1-2% Cu**) in a mineralised prospective host package that is >200m thick from 134m depth
  - high grade, chalcocite dominant copper mineralisation (**1.5m @ 19.1% Cu from 409.1m**)
  - mineralised horizons open in all directions
    - strengthening copper grades
    - higher vein frequency providing potential vectors





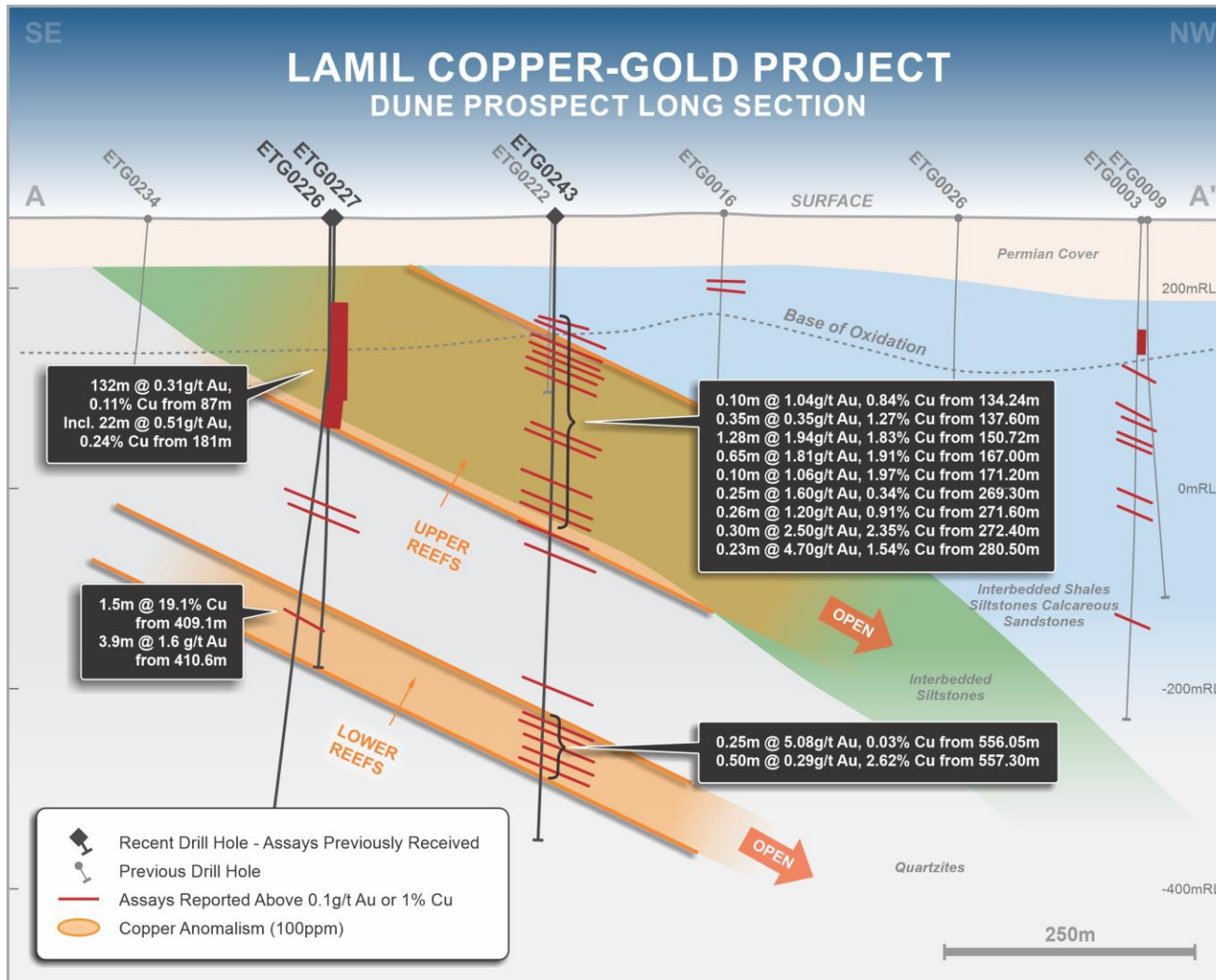
# Drilling results point to potential large copper-gold system

## High grade copper intersections rare outside of Winu & Havieron



Semi-massive pyrite – chalcocite mineralisation drilled from 409.1 to 410.6m in ETG0226.

- **1.5m @ 19.1% Cu from 409.1m**
- **3.9m @ 1.6g/t Au from 410.6m**



Altered & veined siltstone with quartz carbonate-pyrite with chalcopyrite veining ~280.5m in ETG0243

- **0.23m @ 4.70g/t Au & 1.54% Cu**



Semi-massive pyrite/chalcopyrite in quartzite unit ~ 347m in ETG0243

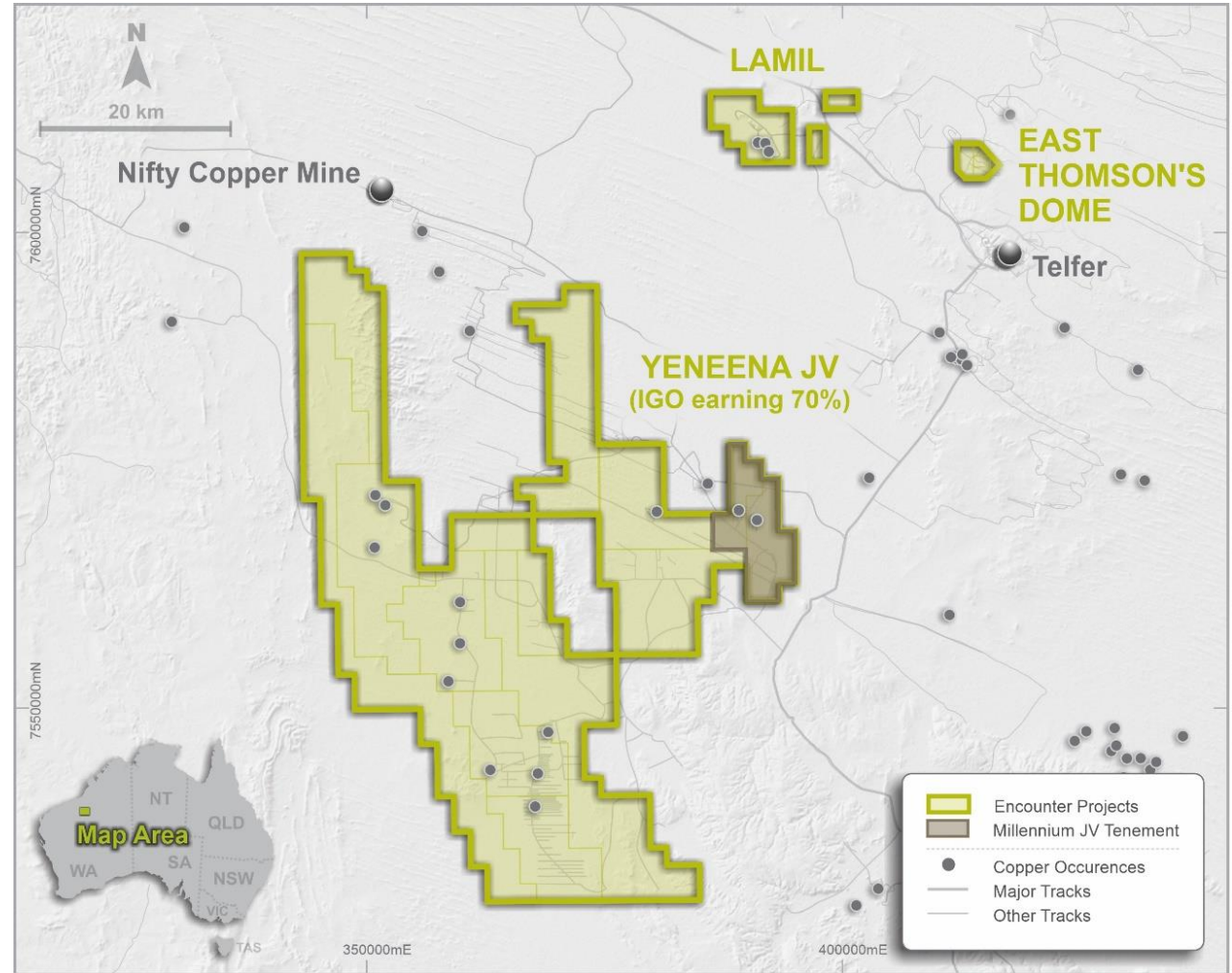
- **0.50m @ 0.50g/t Au & 2.70% Cu**

Refer to ASX releases 6 September and 16 November 2021

# Yeneena Copper-Cobalt



- Paterson Province is a proven mineral region with a consistent history of discoveries
- ~1,450km<sup>2</sup> of the Paterson Province
- IGO can sole fund \$15 million in exploration expenditure over a maximum seven years to earn a 70% interest
- IGO collecting belt-scale high-quality primary datasets
- Interpretation of integrated results will allow for the drill testing of the highest quality targets in 2022
- Preparations commenced for planned airborne/ground-based EM and gravity surveys







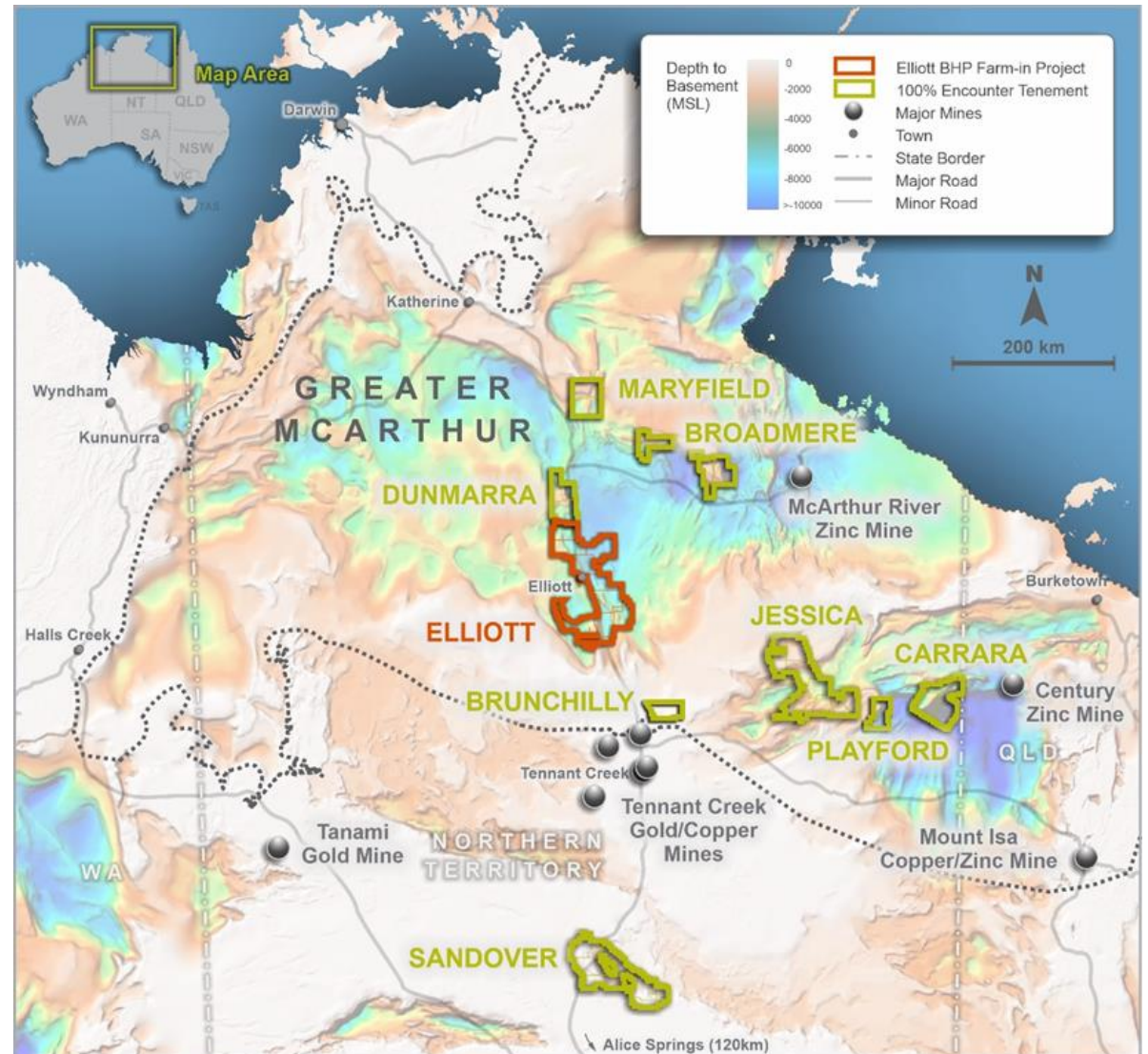
# Northern Territory:

## The next hot spot for copper in Australia



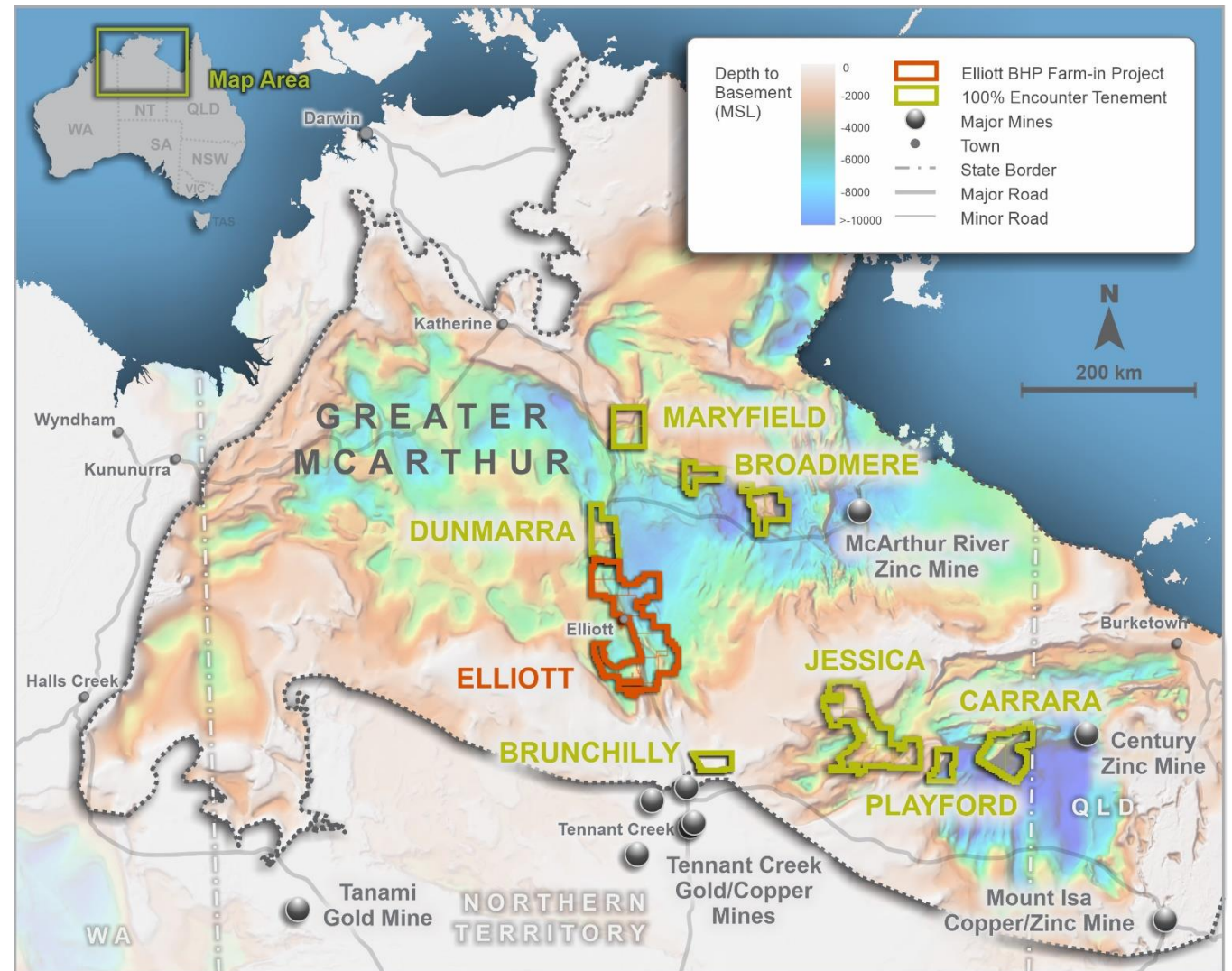
# Northern Territory: the next hot spot for copper in Australia

- Highly prospective, vastly underexplored region under shallow cover
- Located between the major copper-gold producing districts of Mt Isa and Tennant Creek
- Transformational investment in pre-competitive data by Geoscience Australia (GA) and the Northern Territory Geological Survey (NTGS)
- These new datasets are providing crucial early insights into areas prospective for sedimentary hosted deposits
- Encounter has used these datasets to build a commanding position of first mover copper opportunities
- Majors acquiring new projects in the NT include: BHP, Rio, Oz Minerals & Teck



# Elliott Copper Project **BHP**

- BHP (ASX:BHP) earn-in and joint venture agreement covering the 7,200km<sup>2</sup> Elliott Copper Project
- BHP may earn up to a 75% interest in Elliott by spending up to \$25 million over 10 years
- Compelling exploration opportunity in the vastly underexplored Greater McArthur Superbasin
- Key ingredients for the formation of large sedimentary copper deposits
- An extensive exploration program, including seismic surveys and drilling, to define prospective deposition sites for sedimentary copper mineralisation



Refer to ENR ASX release 21 May 2021

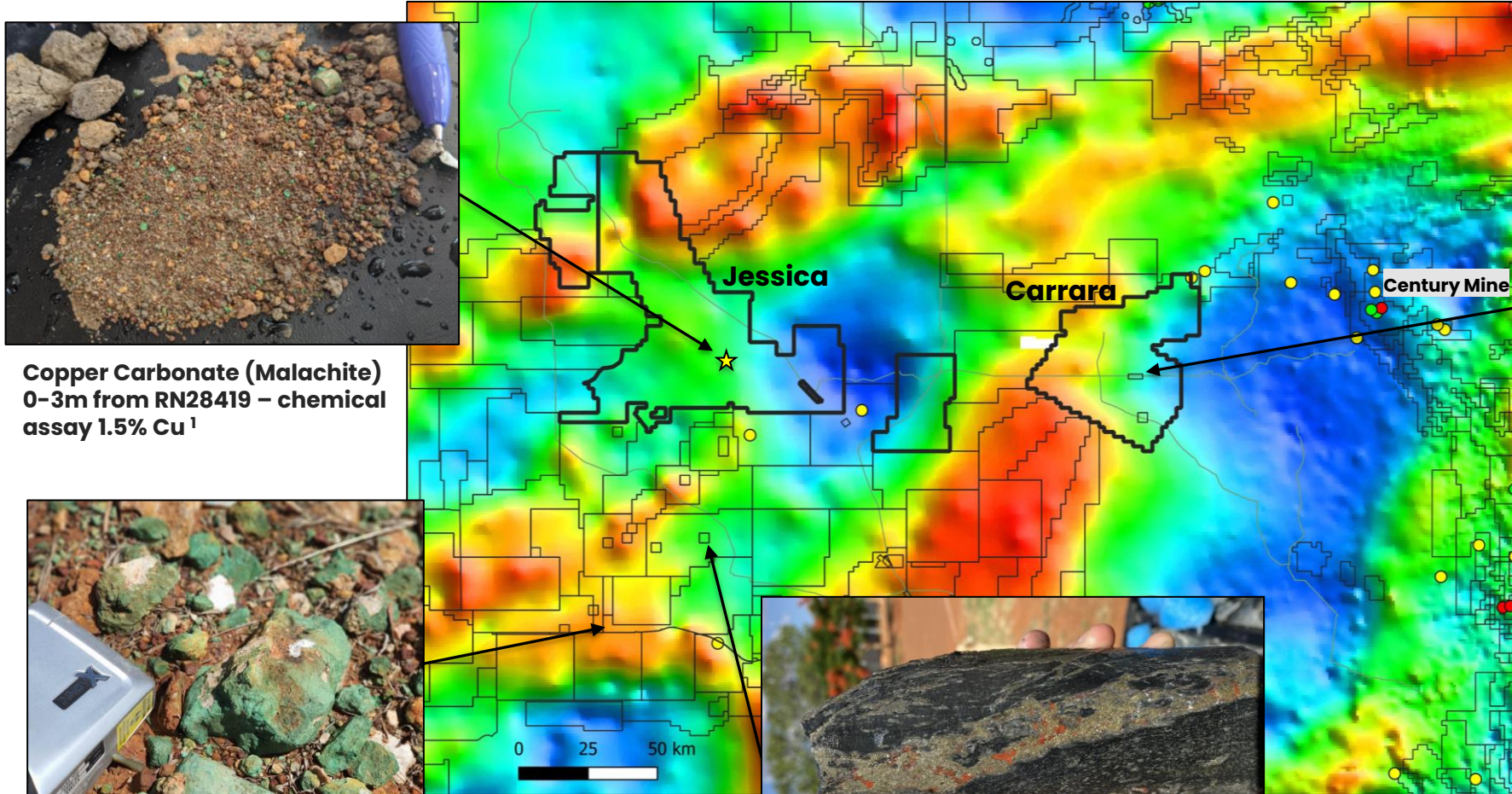
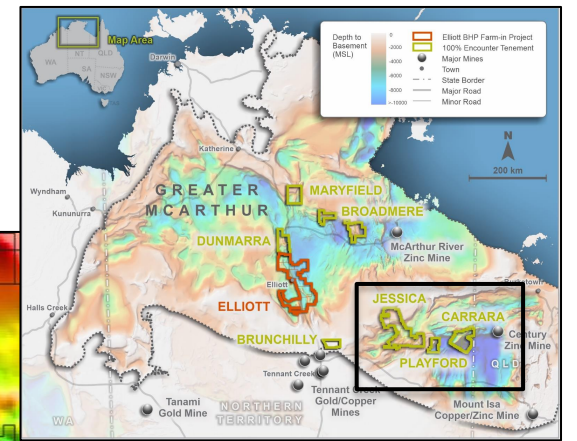


# NTGS Core Library, Darwin





# Jessica and Carrara: Copper near surface and at depth



Copper Carbonate (Malachite)  
0-3m from RN28419 – chemical  
assay 1.5% Cu<sup>1</sup>



Crosswinds Copper Prospect –  
Malachite (copper carbonate)  
mineralisation exposed in table  
drain<sup>2</sup>



Drill hole NDIBK04 pyrite-  
chalcopyrite vein<sup>3</sup>



Chalcopyrite contained in a  
calcareous shale unit within NDI  
Carrara<sup>4</sup> ~1,617m<sup>4</sup>

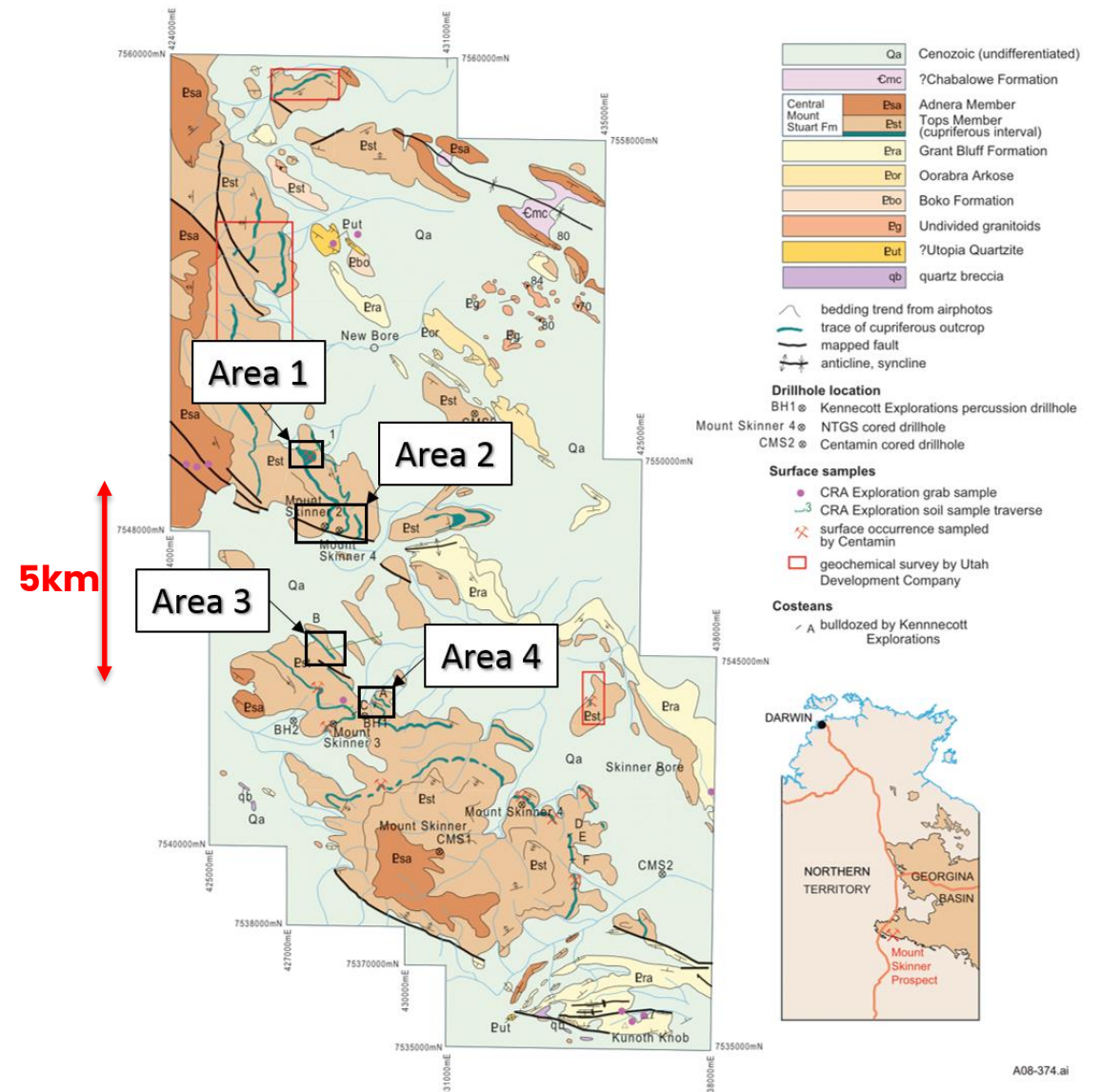
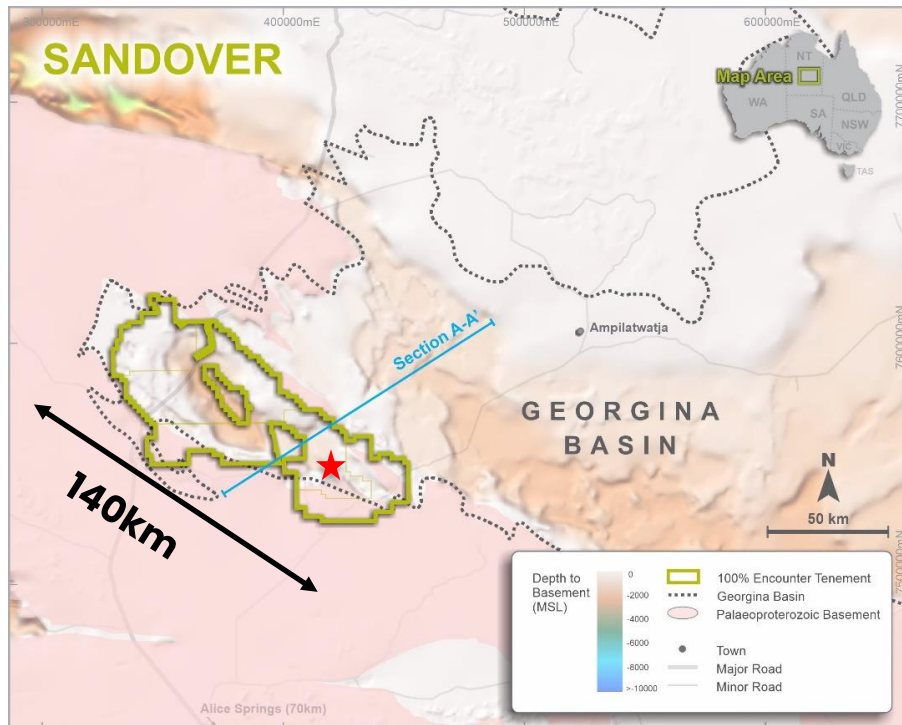
<sup>1</sup> Refer ENR ASX release 19 Aug 2020  
<sup>2</sup> Refer to ASX:MDI release 23 Dec 2020  
<sup>3</sup> Refer to ASX:ICG release 28 Mar 2021  
<sup>4</sup> Refer to ENR ASX release 28 Apr 2021



# Sandover Copper Project

## Outcropping malachite outlines potential major mineral system

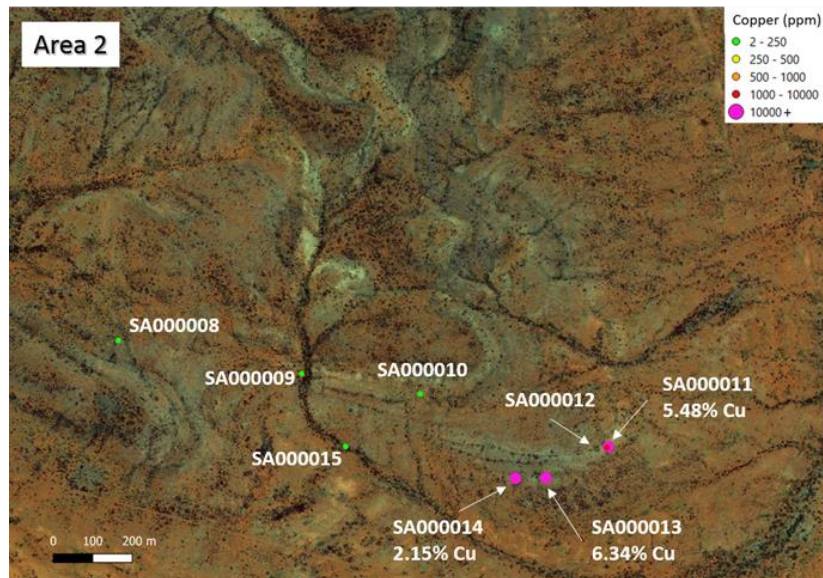
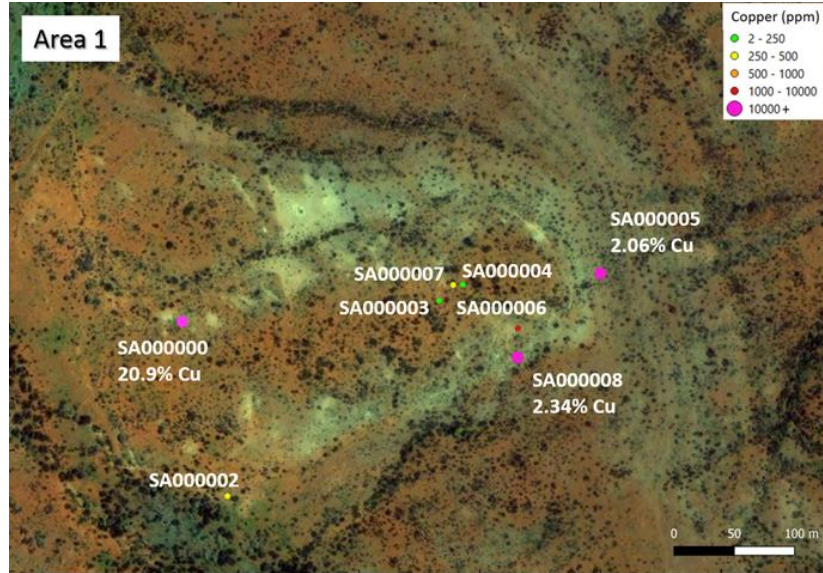
- 170km north-east of Alice Springs
- High grade copper (up to 20.9% Cu) at four separate areas over 6km of strike
- Zambian copper belt analogous – rare to find in an Australian setting





# Sandover Copper Project

## High grade copper assays over 6km in Zambian copper belt setting



SA0000011 selected sample of surface scree Sandover 5.5% Cu (Area 2)





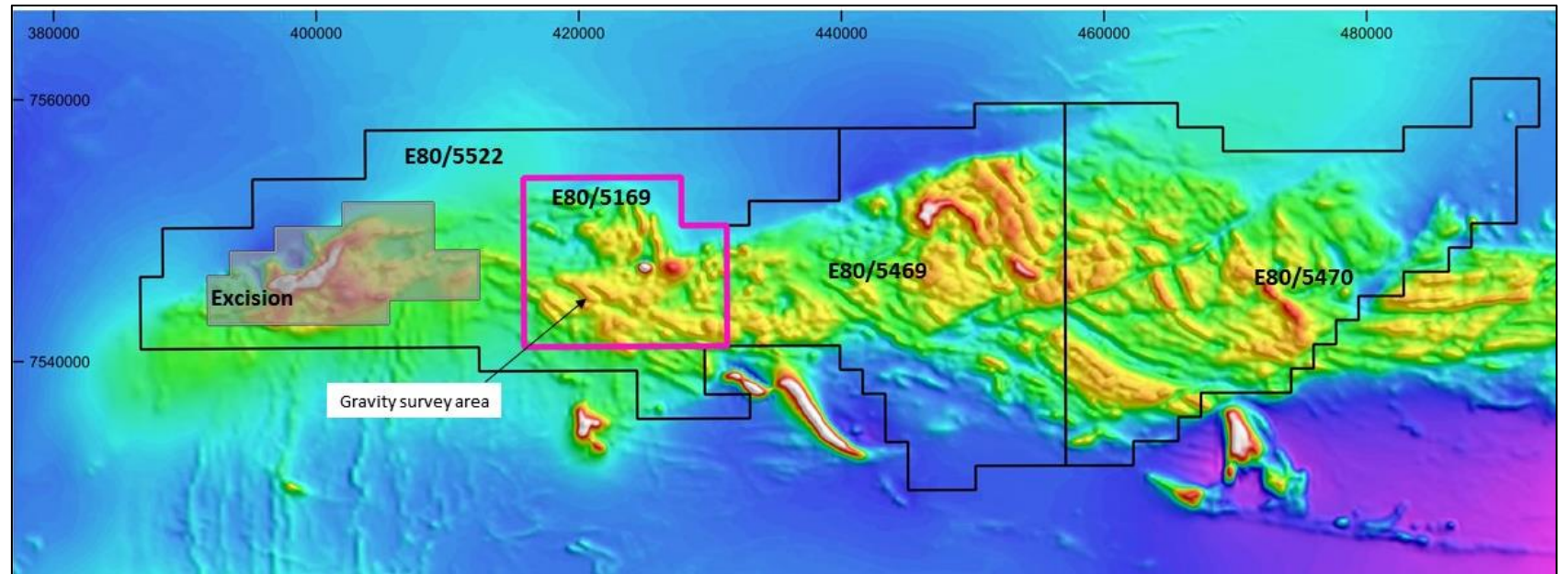
# West Arunta, Western Australia:

The next major copper exploration  
focus in WA

Rare earths potential

# West Arunta: IOCG & REE targets in an unexplored region

- 1,300km<sup>2</sup> West Arunta province of WA
- First diamond drill hole to a depth of 158m (EAL001) intersected a distinctive IOCG geochemical signature
- IOCG mineralisation often has a strong density contrast (Olympic Dam, Prominent Hill) meaning gravity surveys could provide drill targets and a clear pathway to discovery
- Gravity survey and limited surface sampling completed November 2021



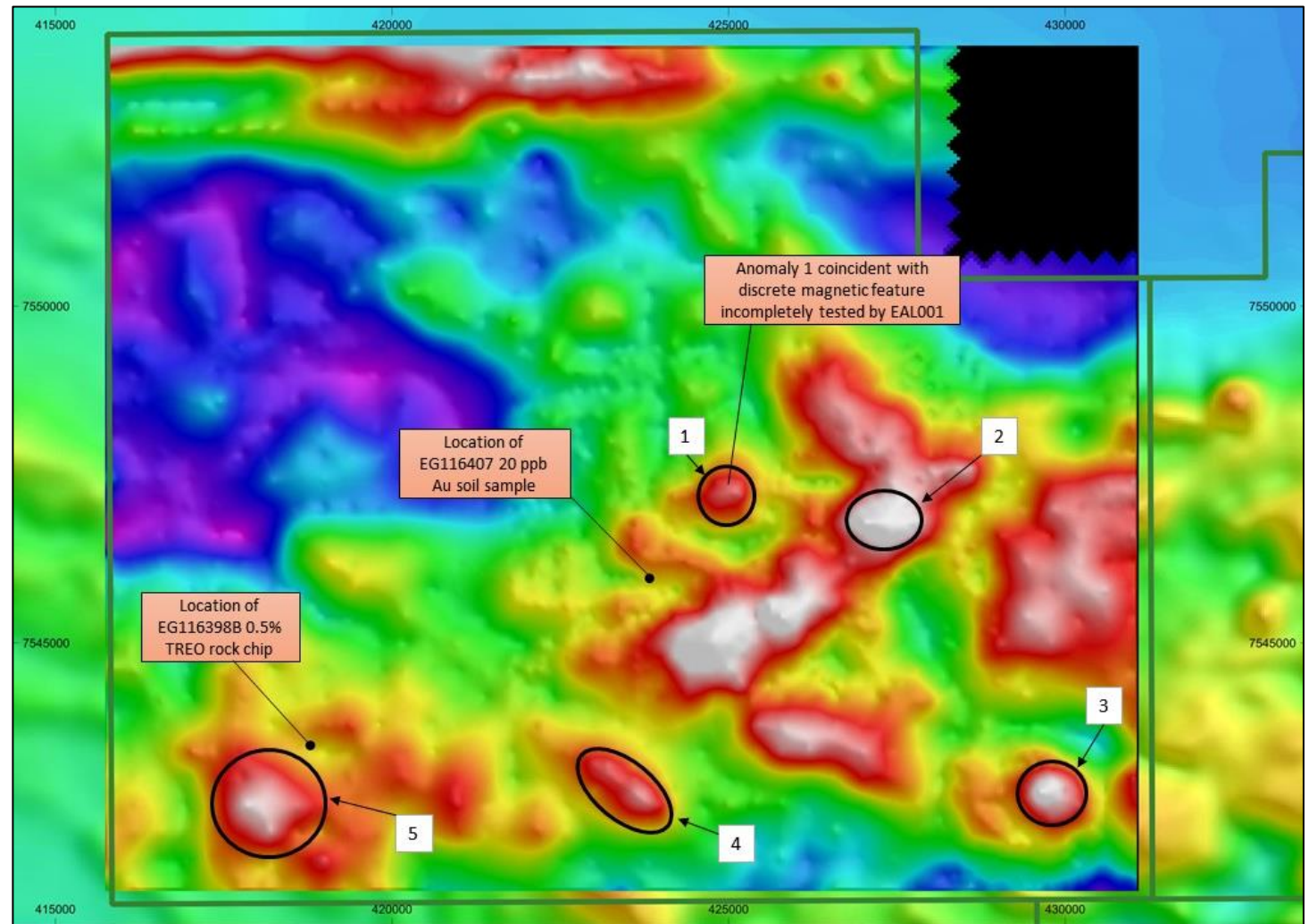
Aileron IOCG-REE project – August–November 2021 gravity survey location plan on TMI background



# West Arunta: Aileron IOCG – REE Project

One of the most prospective regions for IOCG deposits in Australia

- Gravity surveying and surface geochemical sampling in Nov 2021:
  - upgraded the Aileron IOCG targets
  - established rare earth element (“REE”) potential
- Highly elevated total rare earth oxides up to **0.5% TREO (including 0.1% neodymium-praseodymium,  $\text{Nd}_2\text{O}_3+\text{Pr}_6\text{O}_{11}$ )**
- Rare Earth Elements are:
  - important potential pathfinders to IOCG deposits and;
  - could also be significant in their own right
- Discrete, coincident gravity-magnetic anomalies
- Future work likely to include ground IP, surface sampling and diamond drilling



Aileron IOCG /REE project – residual gravity image with location of REE and IOCG anomalies visited during geological reconnaissance in November 2021

Refer to ASX announcement 14 February 2022

# Upcoming activity

- **Lamil Copper-Gold Project (100% ENR)**  
Gravity survey followed by diamond drilling
- **Aileron IOCG-REE Project - West Arunta (100% ENR)**  
Future work likely to include surface sampling, ground IP and diamond drilling
- **Sandover Copper Project - NT (100% ENR)**  
Sampling of the copper mineralised shale units
- **Jessica & Carrara Copper Projects - NT (100% ENR)**  
Gravity surveys in conjunction with NTGS
- **Elliott Copper Project - NT (BHP farm-in)**  
Preparations for the exploration program, including seismic surveys and diamond drilling
- **Yeneena Copper-Cobalt Project WA (IGO farm-in)**  
Interpretation of integrated results will allow for the drill testing of the highest quality targets in 2022
- **New Project Partnerships**  
Discussions with potential partners to accelerate exploration activities



# Foundations established for major copper exploration drive

Major new copper discoveries required to meet burgeoning demand - constrained supply

Sediment-hosted copper systems are a high grade and large deposit style

Central Australia has the right geology for sediment-hosted and IOCG copper deposits....but underexplored

Partnering with majors to maximise exploration investment and activity

**BHP**



Encounter shareholders have exceptional leverage to the decarbonisation and electrification global thematic