



**AXS:TMS**

RIU EXPLORERS CONFERENCE  
FREMANTLE, 14 – 16 FEBRUARY 2023

# **BLUEBIRD HIGH-GRADE COPPER-GOLD DISCOVERY**

**THE BARKLY PROJECT  
TENNANT CREEK  
NORTHERN TERRITORY, AUSTRALIA**

# Cautionary Statements and Competent Persons Declaration

## CAUTIONARY STATEMENT REGARDING FORWARD LOOKING INFORMATION

This presentation contains forward-looking statements concerning Tennant Minerals Ltd. Forward-looking statements are not statements of historical fact and actual events and results may differ materially from those described in the forward-looking statements as a result of a variety of risks, uncertainties and other factors. Forward-looking statements are inherently subject to business, economic, competitive, political and social uncertainties and contingencies. Many factors could cause the Company's actual results to differ materially from those expressed or implied in any forward-looking information provided by the Company, or on behalf of, the Company. Such factors include, among other things, risks relating to additional funding requirements, metal prices, exploration, development and operating risks, competition, production risks, regulatory restrictions, including environmental regulation and liability and potential title disputes.

Forward looking statements in this release are based on the company's beliefs, opinions and estimates of Tennant Minerals Ltd as of the dates the forward-looking statements are made, and no obligation is assumed to update forward looking statements if these beliefs, opinions and estimates should change or to reflect other future developments.

## COMPETENT PERSONS DECLARATION

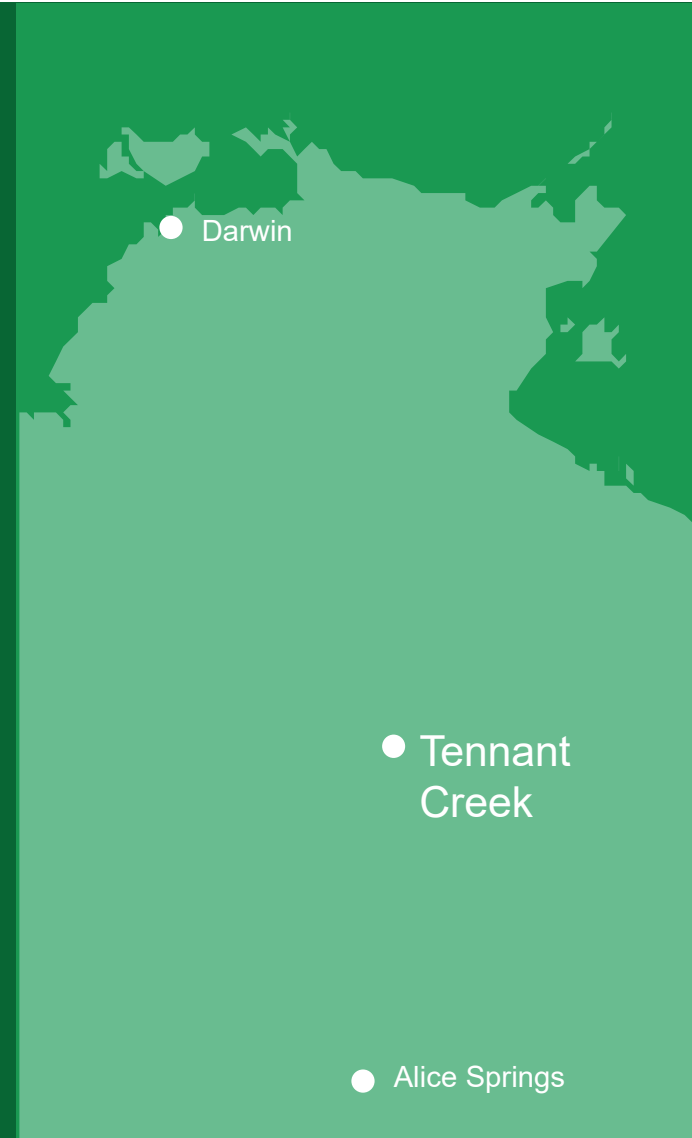
The information in this presentation that relates to exploration results is based on information compiled and/or reviewed by Mr Jonathon Dugdale. Mr Dugdale is the Technical Advisor to Tennant Minerals Ltd and a Fellow of the Australian Institute of Mining and Metallurgy ('FAusIMM'). Mr Dugdale has sufficient experience, including over 35 years' in exploration (discovery), resource evaluation, mine geology, development studies and finance, relevant to the style of mineralisation and type of deposits under consideration to qualify as a Competent Person as defined in the 2012 Edition of the Joint Ore Reserves Committee ('JORC') Australasian Code for Reporting of Exploration Results, Minerals Resources and Ore Reserves. Mr Dugdale consents to the inclusion in this presentation of the matters based on this information in the form and context in which it appears.

## ASX LISTING RULES COMPLIANCE

In preparing this presentation the Company has relied on the announcements previously made by the Company that are referenced below the first mention of the information. The Company confirms that it is not aware of any new information or data that materially affects those announcements previously made, or that would materially affect the Company from relying on those announcements for the purpose of this announcement.

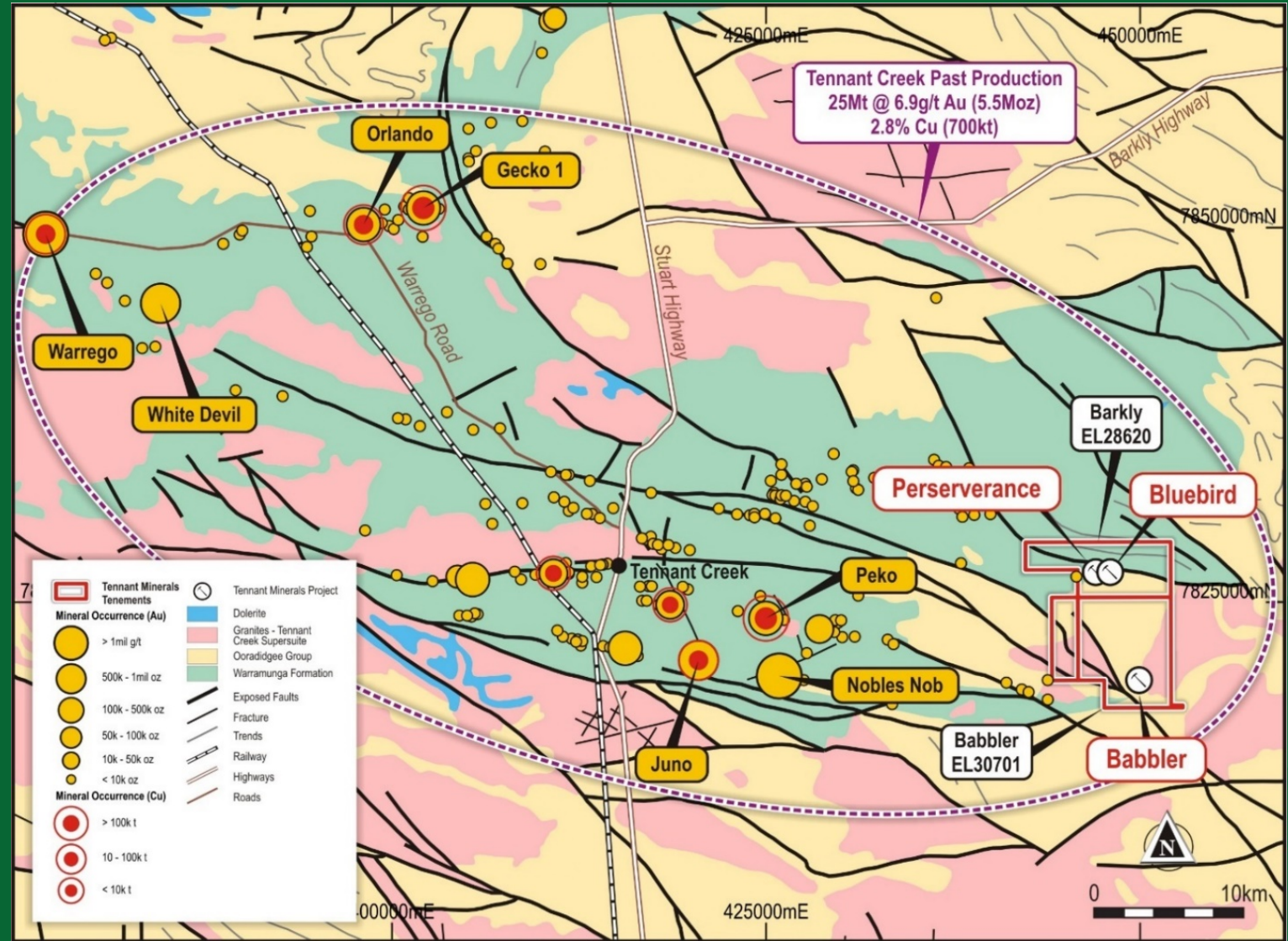
# Highlights

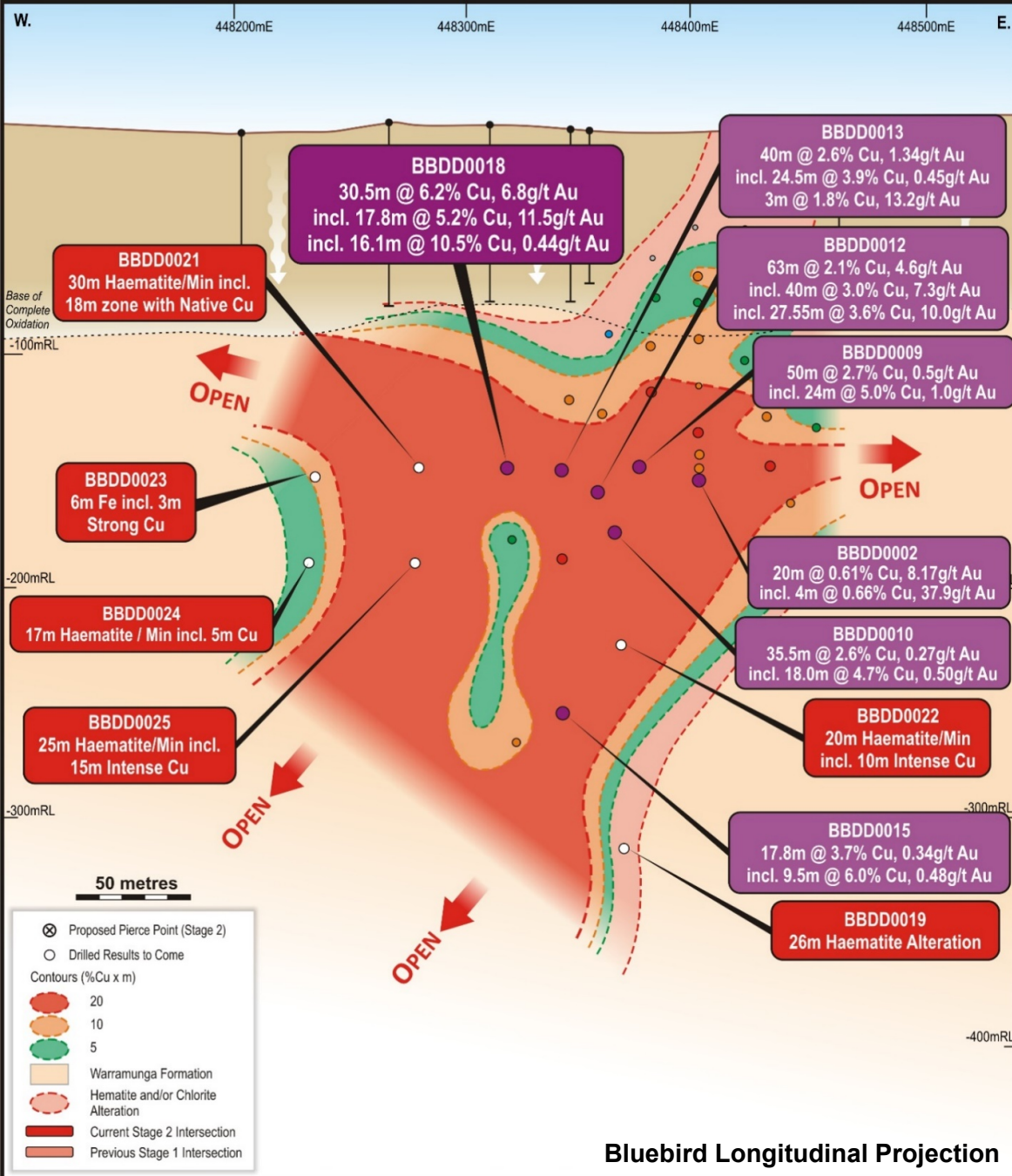
- High-grade, greenfields, **copper-gold discovery at Bluebird**, east of Tennant Creek:
  - 30.5m @ 6.2% Cu, 6.8 g/t Au inc. 17.8m @ 5.2% Cu, 11.5 g/t Au & 16.1m @ 10.5% Cu<sup>1</sup>
  - 63m @ 2.1% Cu, 4.6 g/t Au incl. 27.55m @ 3.6% Cu, 10 g/t Au<sup>2</sup>
- Bluebird is open to the east, west and at depth - where further drilling is planned.
- Potential for Bluebird to be several million tonnes and similar to other, high-grade deposits in the region e.g. Peko, 20km to the west: 3.7Mt @ 4% Cu, 3.5 g/t Au<sup>3</sup>
- Bluebird is one of 6 key gravity, magnetic targets within the 2.5km Bluebird-Perseverance Target zone with very little effective testing to bedrock.
- Induced polarisation (IP) geophysics successfully detected the low-resistivity copper-gold sulphide zone at Bluebird and over other key targets, where selected drilling has intersected mineralised structures in 3 areas, with results to come.
- Potential for cluster of high-grade copper-gold deposits within the Bluebird-Perseverance Target zone. Further drilling to determine potential for major copper-gold camp before resource definition and development studies.



# Barkly Project and the Bluebird Cu-Au Discovery: World-Class Location

- The Barkly Project and the Bluebird discovery is located east of the Tennant Creek (copper-gold) Mineral Field (TCMF), which produced >5.5Moz of gold and >700kt of copper from 1934 to 2005<sup>3</sup>. No new production since.
- The Barkly Project lies within 20km east of the historical Peko (3.7Mt 4% Cu, 3.5 g/t Au)<sup>3</sup> and Nobles Nob (2Mt @ 17.3 g/t Au)<sup>3</sup> deposits. Barkly Project has potential for similar deposits.
- Bluebird is a greenfields copper-gold discovery in an area of deep weathering / shallow cover with limited previous effective exploration.
- The Company is targeting major, high-grade, copper-gold deposits using gravity, magnetics and IP geophysics, followed by drilling to effectively test modelled target positions.





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# Bluebird Cu-Au Discovery



- Thick and high-grade copper - gold intersections in doubly plunging zone, open in all directions:

**BBDD0018:**  
30.5m @ 6.2% Cu, 6.8 g/t Au incl. 16m @ 10.5% Cu, 0.44 g/t Au<sup>1</sup>

**BBDD0012:**  
63m @ 2.1% Cu, 4.6 g/t Au incl. 27.55m @ 3.6% Cu, 10 g/t Au<sup>2</sup>

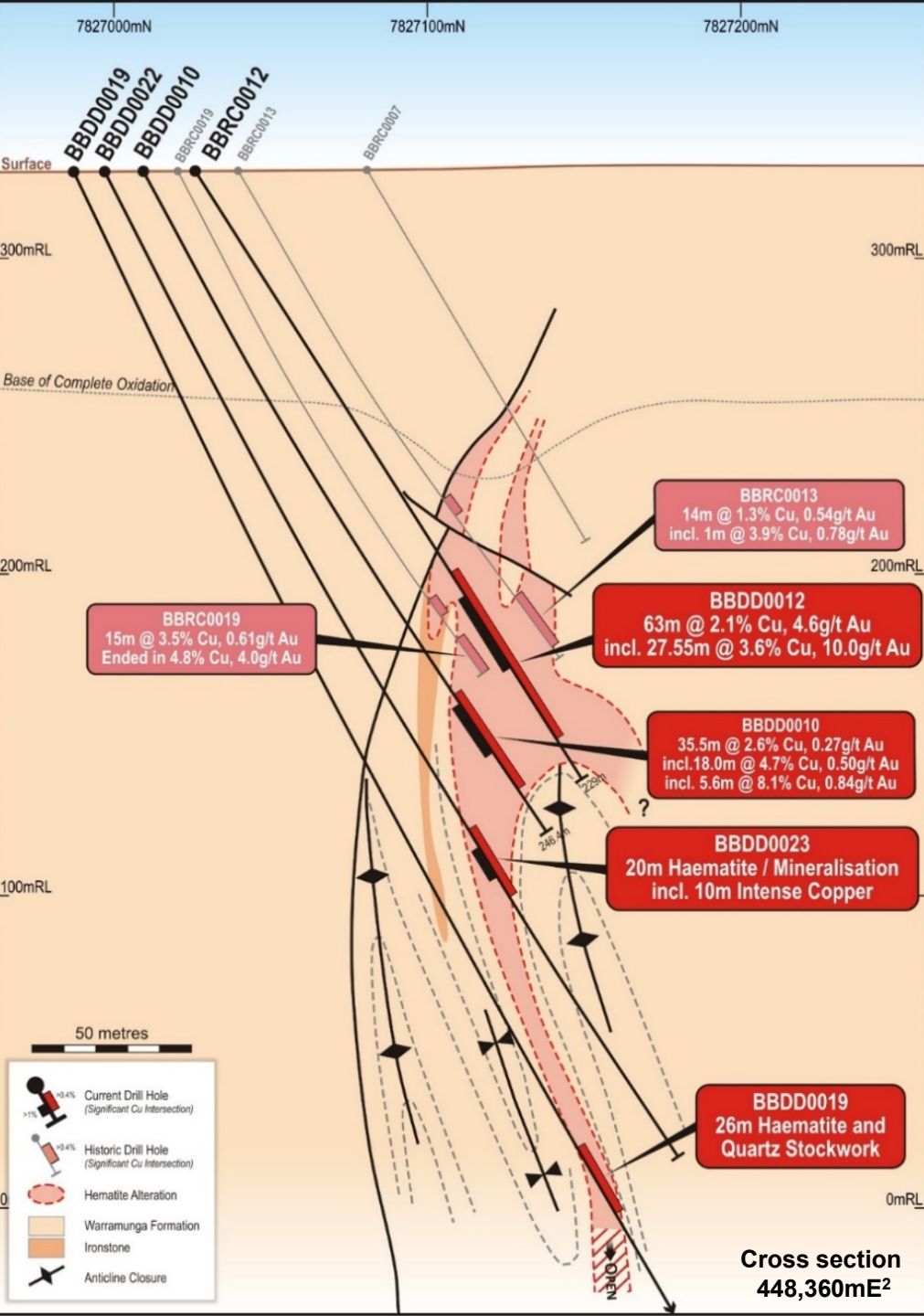
**BBDD0013:**  
40m @ 2.6% Cu, 1.3 g/t Au incl. 24.5m @ 3.7% Cu, 0.45 g/t Au<sup>4</sup>

**BBDD0009:**  
50m @ 2.7% Cu, 0.50 g/t Au incl. 24.5m @ 5.0% Cu, 1.0 g/t Au<sup>5</sup>

- Recently completed, Stage 2, diamond drilling extended to 240m strike-length and over 300m depth and open.
- New drilling planned to build multi-million tonne resource potential at Bluebird.

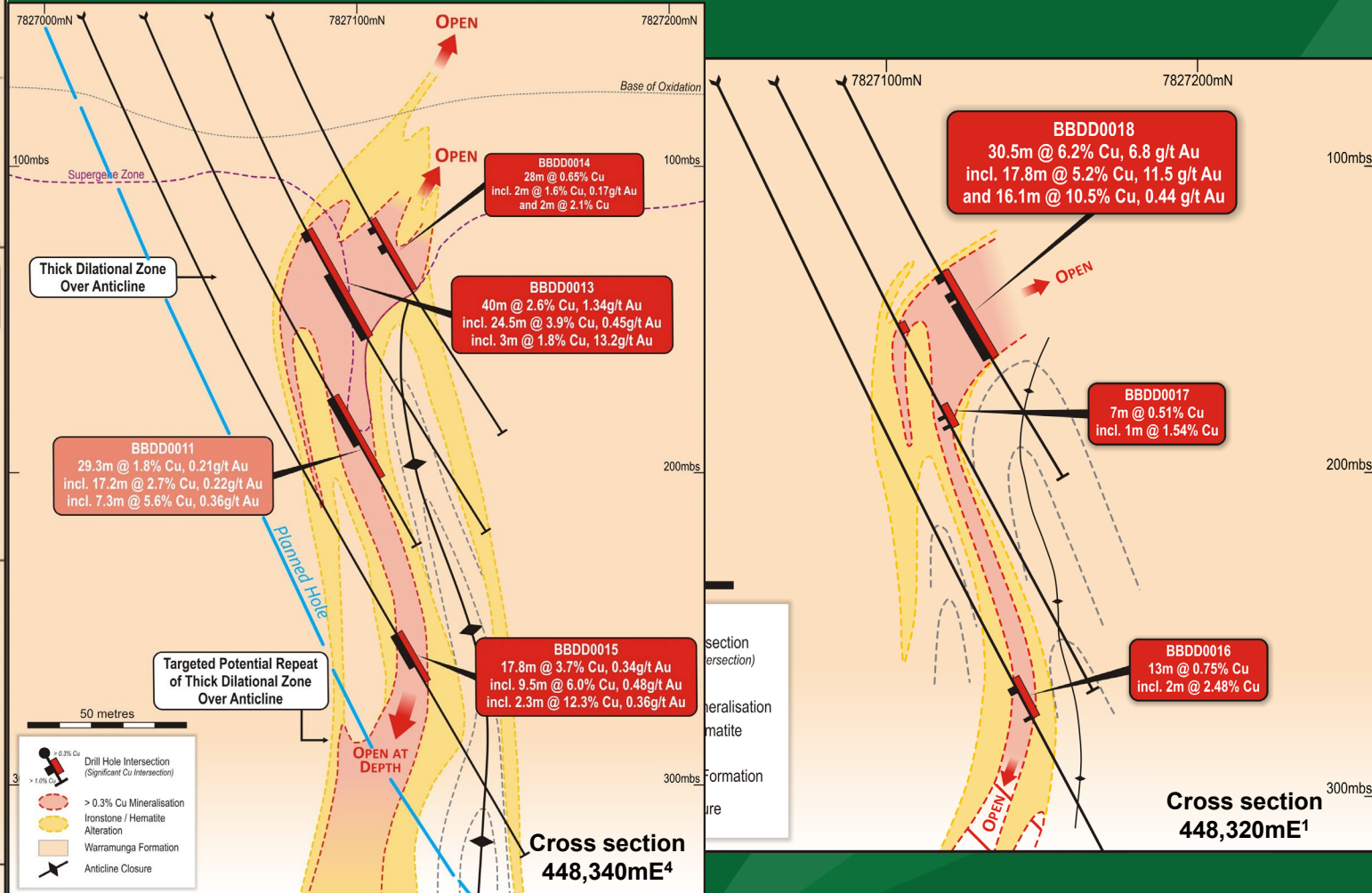
<sup>4</sup> 07/09/2022. Tennant Minerals (ASX. TMS): "Up to 54.5% Cu in Massive Sulphides at Bluebird".

<sup>5</sup> 08 March 2022. Tennant Minerals (ASX. TMS): "Spectacular 50m @ 2.70% copper intersection at Bluebird"



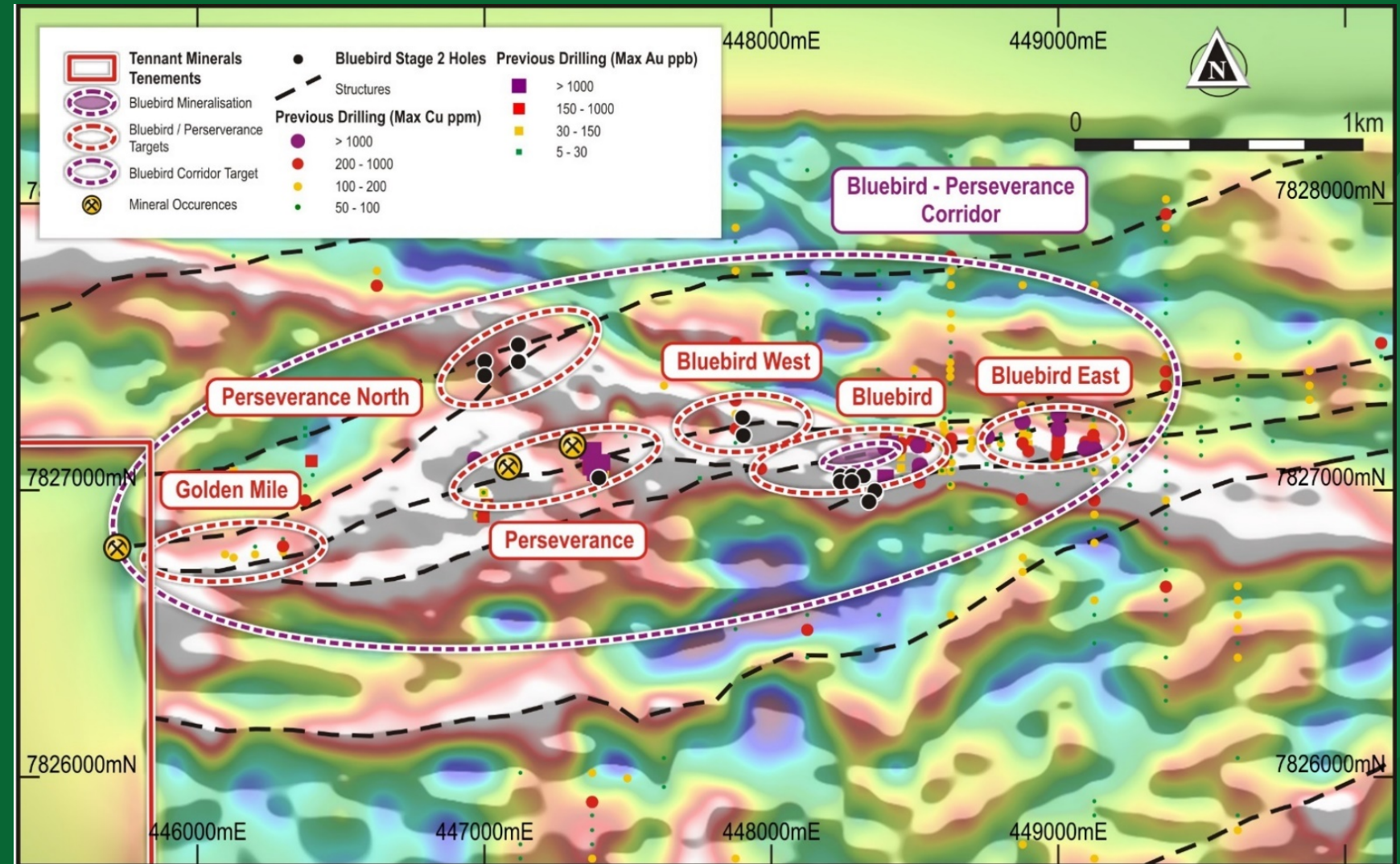
# Bluebird Cross Sections – Thick Cu-Au

Thick, high-grade, copper - gold intersections associated with structures intersecting anticline, producing dilational zone, predicted to repeat at depth.



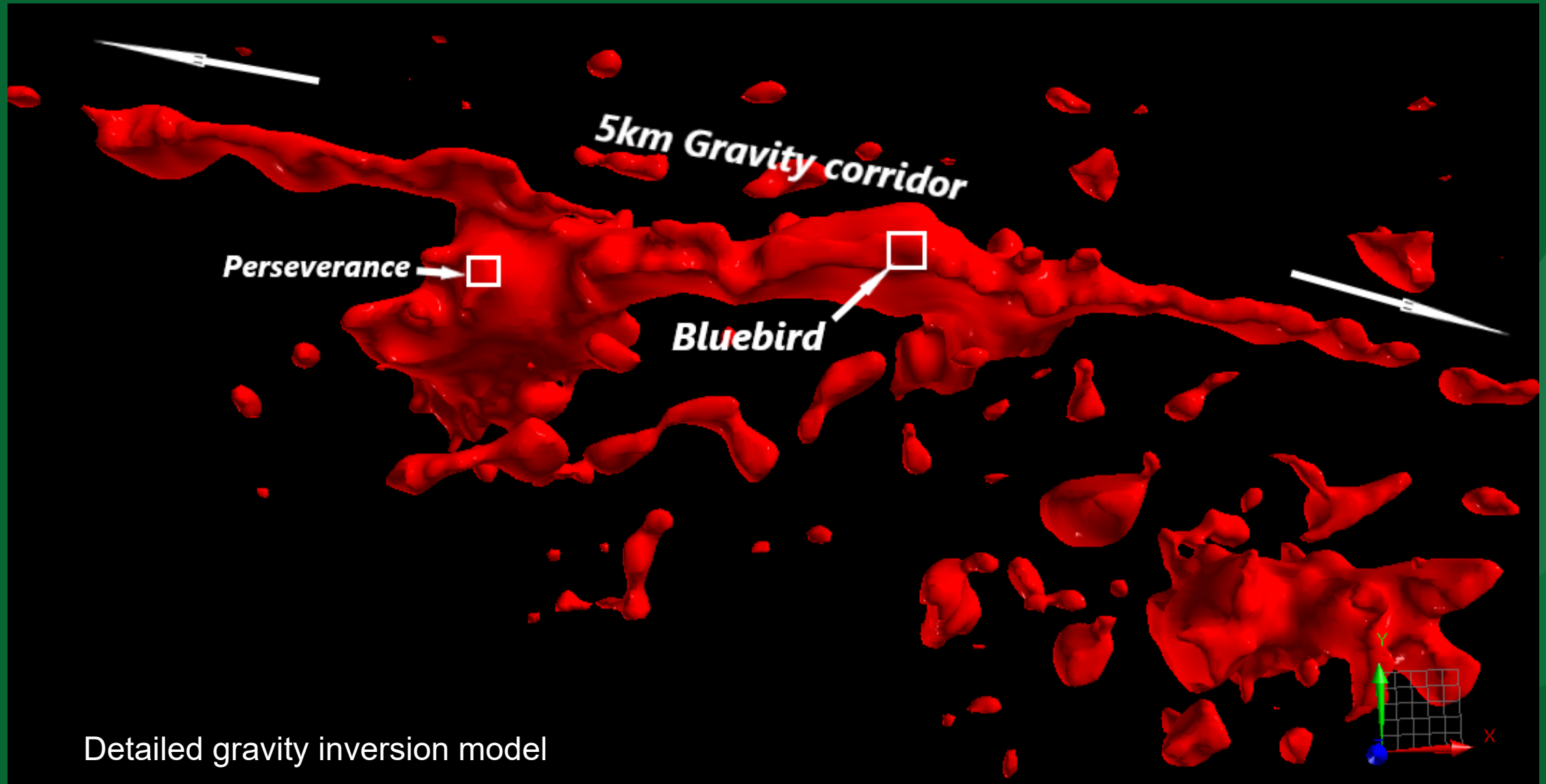
# Other Key Targets in 2.5km Bluebird-Perseverance Target Zone

- Bluebird associated with ENE-WSW trending structures intersecting gravity ridge (ironstone).
- RAB drilling at Bluebird and east produced geochemical anomaly (subcrop/outcrop), leading to initial discovery.
- RAB drilling west of Bluebird to Perseverance not sufficient depth in areas of cover.
- New Targets on extensions of WSW-ESE structures<sup>6</sup> intersecting deeper ironstone to be tested - further drilling<sup>7</sup>.



# Bluebird – Perseverance Gravity Model

## – Continuity of Ironstones & Structures to >500m Depth

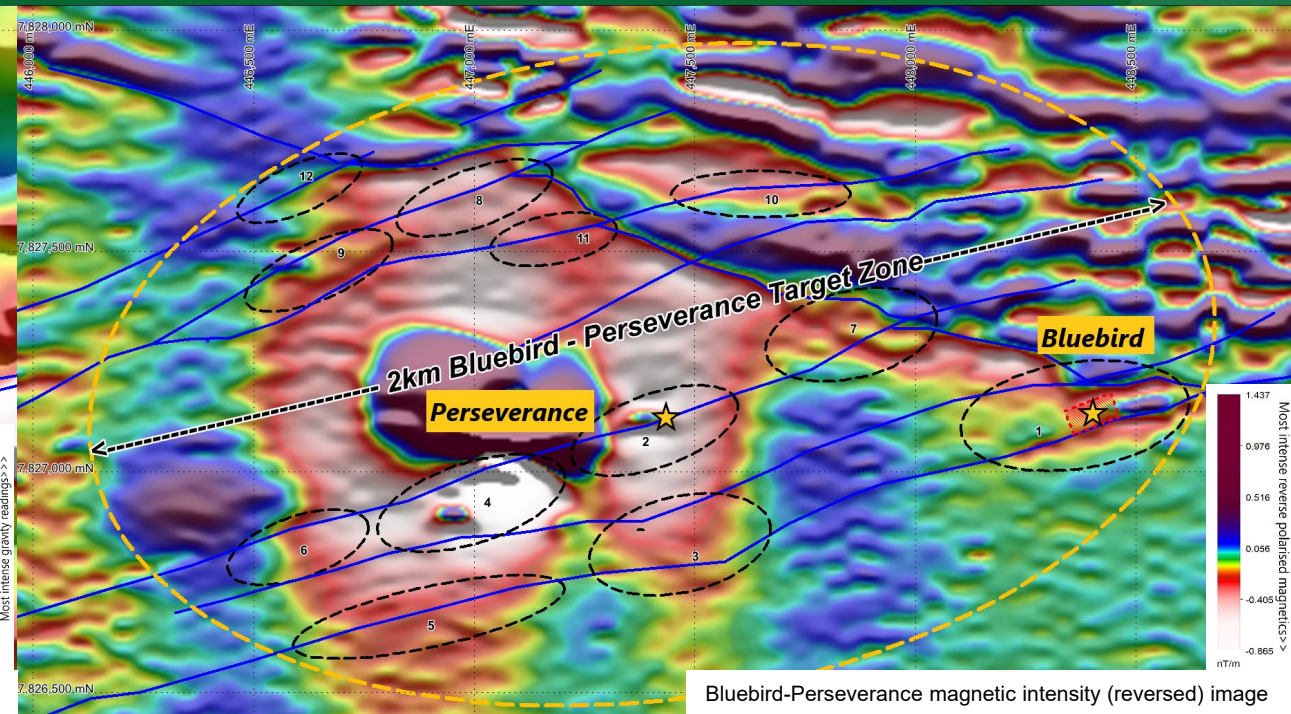
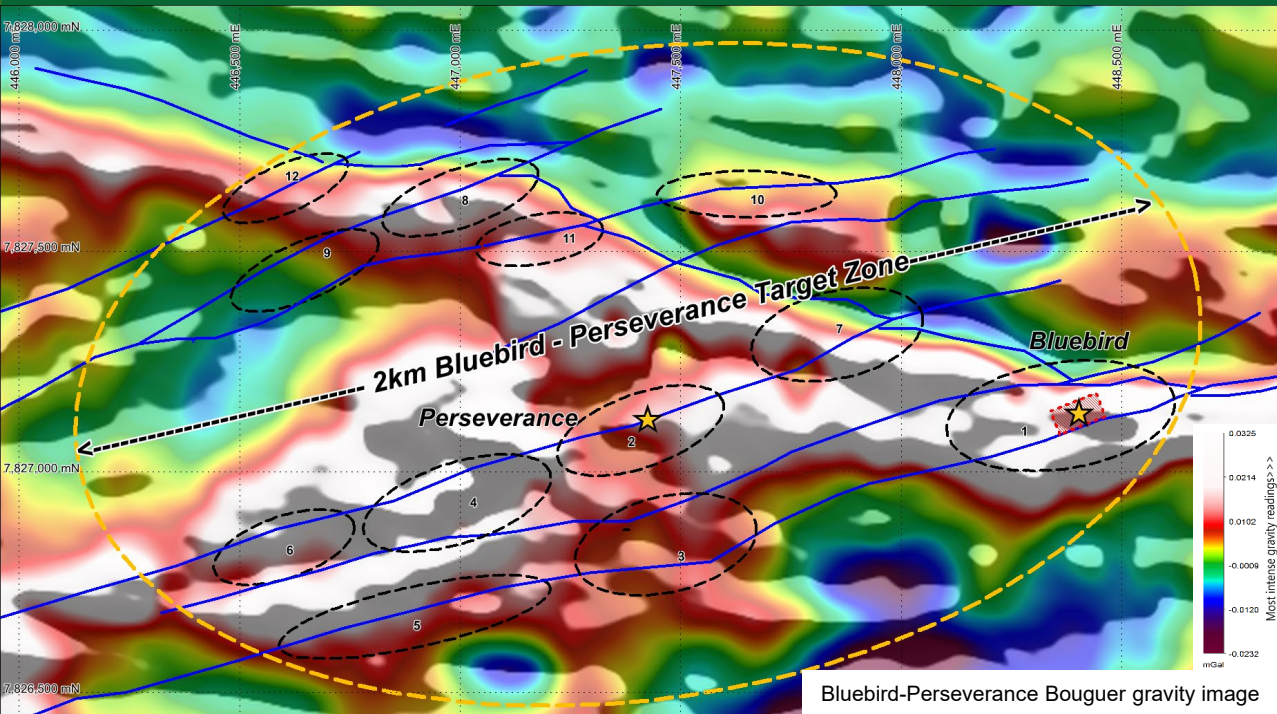


Detailed gravity inversion model

# Focus on 6 Key Targets in 2.5km Bluebird – Perseverance Corridor

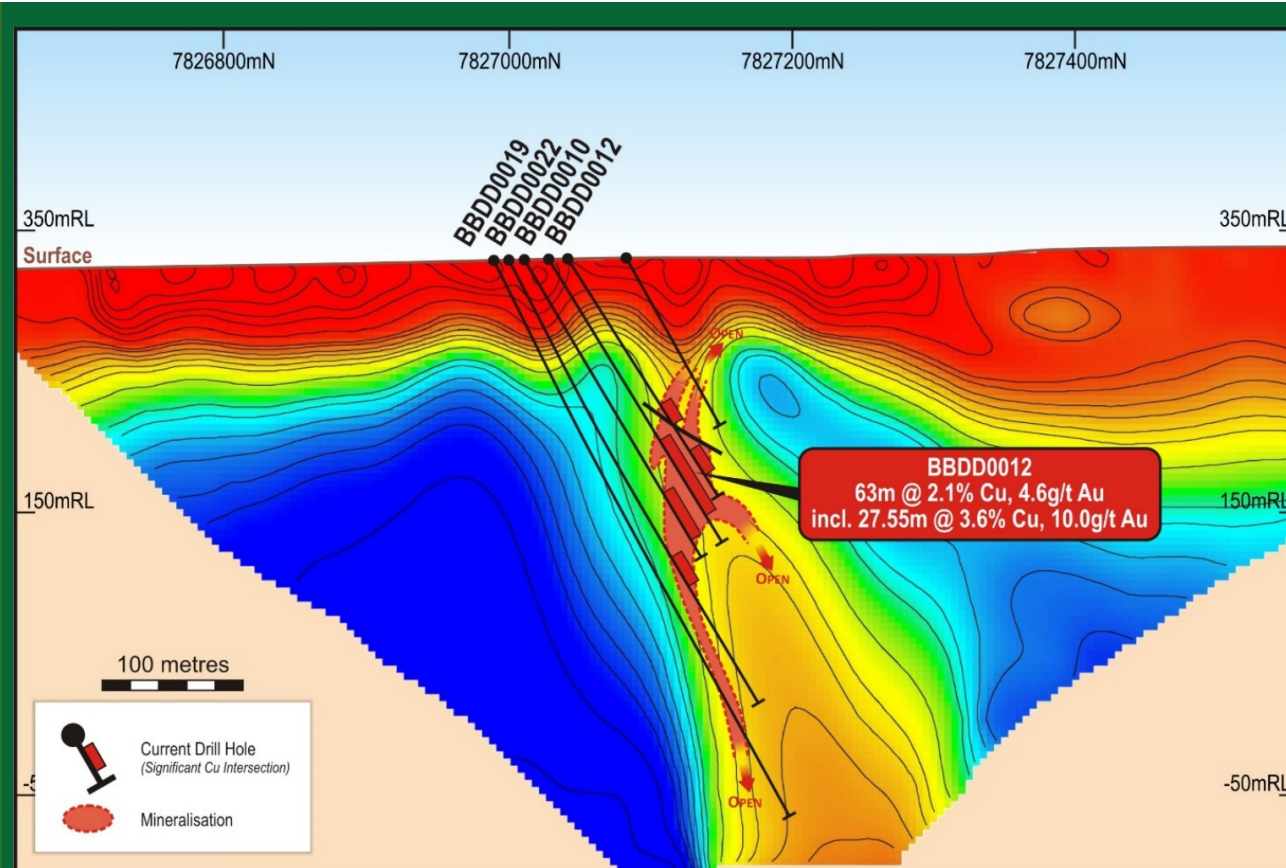
- Detailed gravity highlights WNW – ESE trending gravity high (ironstone) and intersecting WSW – ENE deep seated Bluebird - Perseverance structural/gravity corridor<sup>6</sup>.

- High-resolution drone-magnetics identified WSW trending reverse-polarized magnetic anomaly associated with the Bluebird copper-gold deposit<sup>6</sup>.

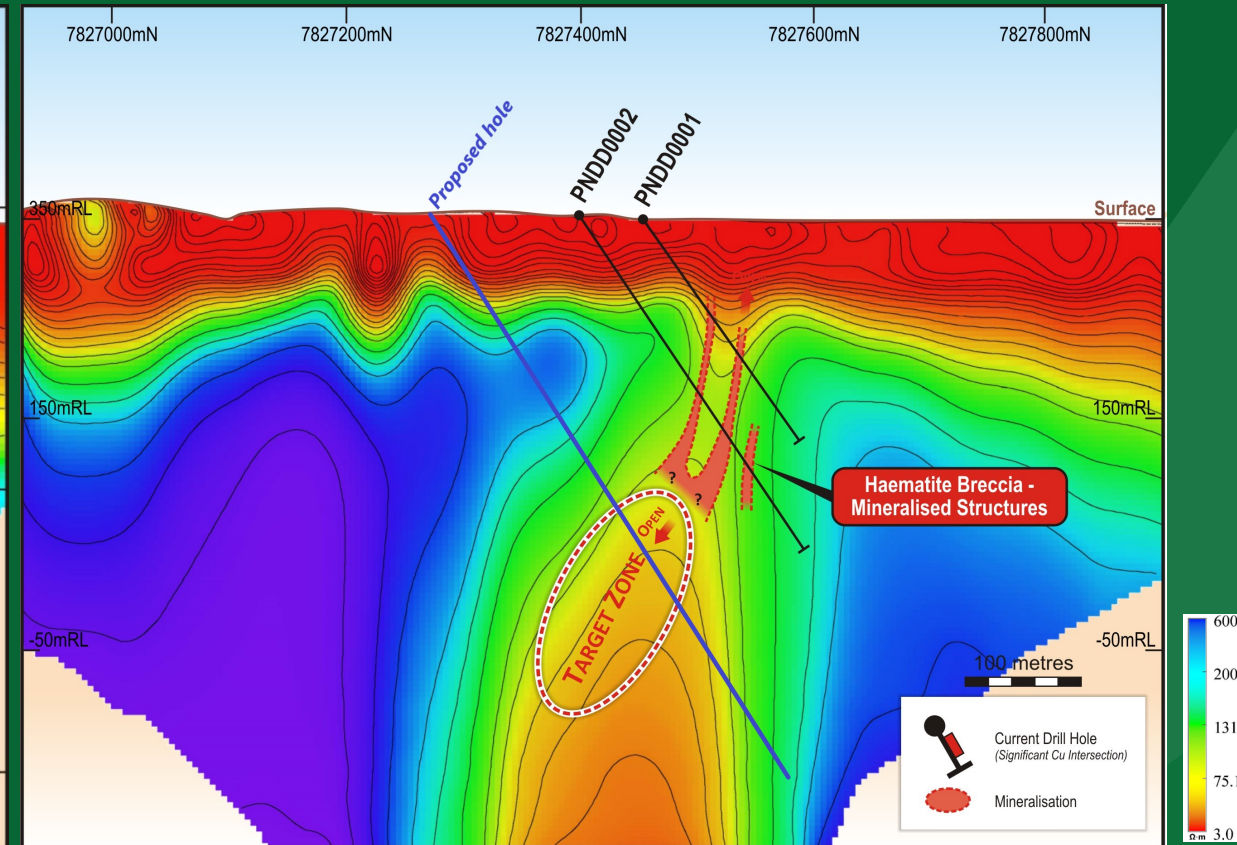


- Bluebird 1 of 6 key gravity – magnetic targets within Bluebird-Perseverance Target Zone, fine tuned with IP & drilling<sup>7</sup>.

# Bluebird associated with Induced Polarisation (IP) Resistivity low – other targets (e.g. Perseverance North) identical target scenario



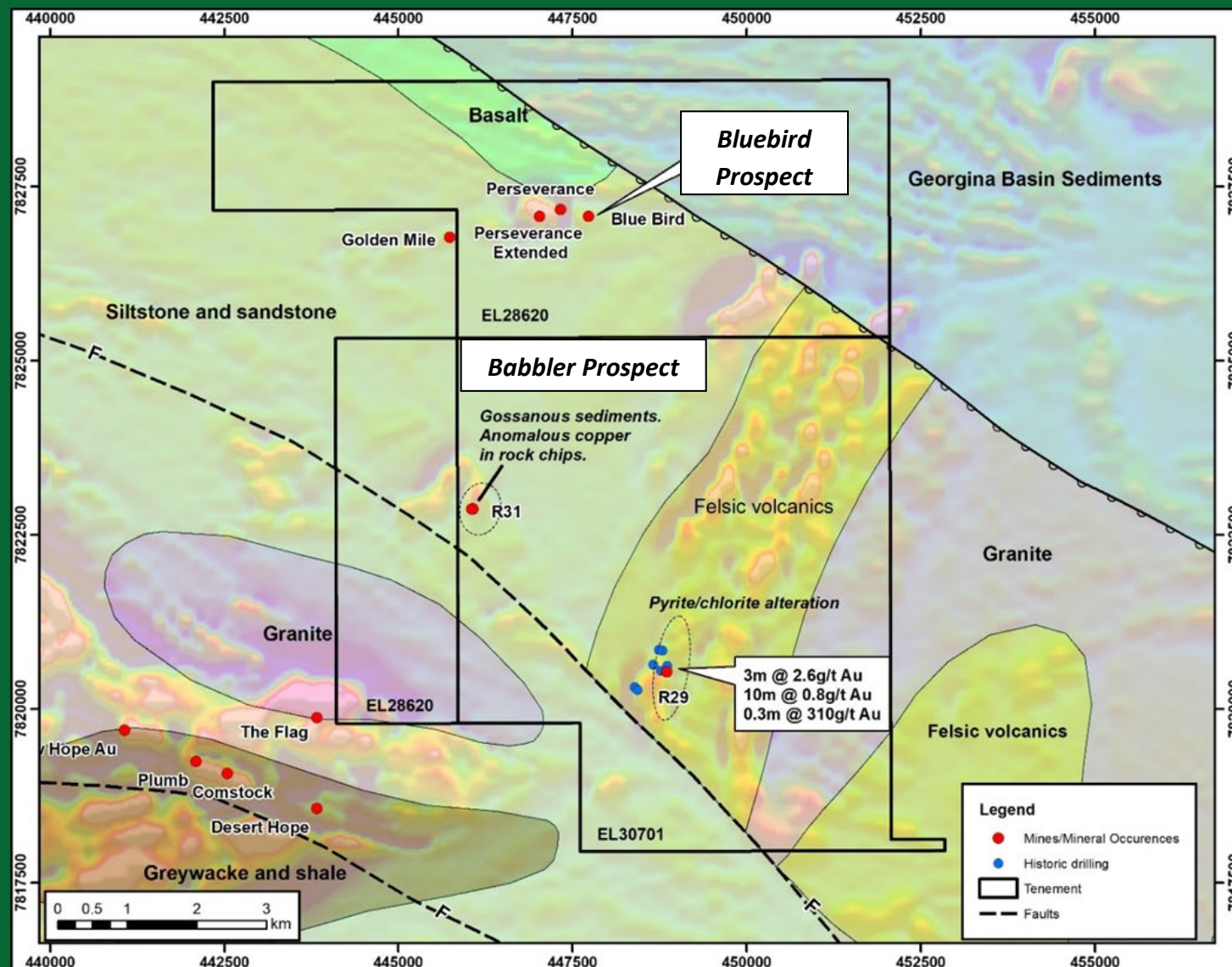
Bluebird Cross section 448,360mE<sup>7</sup>



Perseverance North Cross section 447,700mE<sup>7</sup>

# Babbler Project: Magnetic-Gravity Cu-Au Targets under-cover

- Babbler tenement, immediately south of Bluebird.
- Warramunga Formation, the host of Bluebird and other Tennant Creek Cu-Au deposits, under sedimentary/volcanic cover (Ooradidge Fm).
- Previous drilling includes **3m @ 2.6 g/t Au, 10m @ 0.8 g/t Au** and **0.3m @ 310 g/t Au** in structures overlying basement targets?
- Magnetic anomalies identified that may be in underlying Warramunga or overlying sedimentary/volcanic sequence.
- Detailed gravity completed. Modelling to define gravity (ironstone) anomalies in Warramunga Formation, representing targets for new copper-gold deposits.
- Northern Territory Government co-funding (\$66k) to drill-test key targets. Drilling planned during next program<sup>8</sup>.



# Third Stage of Drilling planned = Strong News Flow

- **Bluebird Copper-Gold Discovery:**

Drilling to extend and define the Bluebird high-grade copper-gold discovery to the east and west, as well as testing the depth extent to greater than 400m, targeting a multi-million tonne, high-grade copper-gold resource.

- **Priority Targets for repeat of Bluebird in 2.5km Bluebird-Perseverance Corridor and Babbler:**

Testing of additional targets generated by the extension and infill IP program and deeper drilling on key sections drilled during the Stage 2 program, targeting further high-grade copper-gold discoveries.

- **These programs designed to identify multiple, multi-million tonne, high-grade copper-gold deposits within the Barkly Project, providing opportunity for stand-alone copper-gold production.**



# Why invest in Tennant Minerals?



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- ✓ High-grade copper-gold discovery in greenfields area east of well endowed mineral field.
- ✓ Bluebird Cu-Au discovery open all directions, further drilling to define resource potential.
- ✓ Identified, excellent, potential for multiple discoveries to be made in Barkly Project.
- ✓ Other key targets to be tested, to identify potential for stand-alone Cu-Au project.
- ✓ Active news flow from results, new drilling, resource estimates & development studies in 2023

# TMS - Corporate Overview

## TMS

ASX Code

## \$2M

Cash (as at 31 December 2022)

## \$24M

Market Cap (at \$0.039 close 10/2/23)

## 616.6m

Shares on Issue

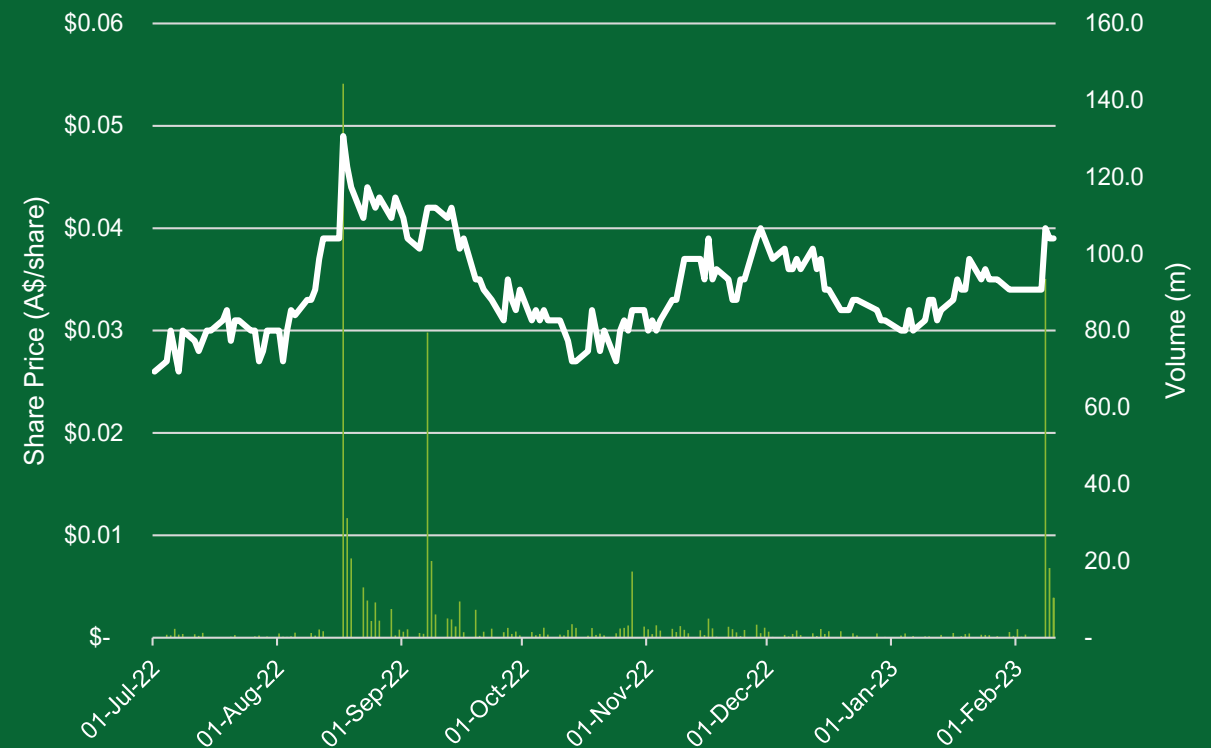
## Options:

- TMSO (L). 383.7m, \$0.03, Ex. 23/4/24
- TMS (UL). 26.0m, \$0.08, Ex. 8/4/25

## \$22m

Enterprise Value

### TMS Share Price Chart



# Board and Management



## Mr Matthew Driscoll

### Chairman (Non-Executive)

Mr Driscoll has significant experience across several industries, including online technologies, financial services, fintech, property and resources. He has more than 30 years' experience in capital markets and the financial services industry and is an accomplished company director in roles across listed and private companies

Mr Driscoll currently is Chairman of Carbonxt (CG1), Non-Executive Director of Energy Technologies (EGY), Non-Executive Director of BuyMyPlace.com.au (BMP), Non-Executive Director of Unlisted public Co. Smoke Alarms Holdings. Mr Driscoll is also former Chairman of Powerwrap Limited (PWL) and Chairman of Killara Resources Limited (KRA).

## Mr Michael Scivolo

### Director (Non Executive)

Mr Scivolo has extensive experience in the fields of accounting and taxation in both corporate and non-corporate entities, having been a partner/director in a CPA firm until 2011. Mr Scivolo has since then been consulting in the accounting/taxation fields.

Mr Scivolo has also been on the boards of a number of ASX listed mining companies. Mr Scivolo is currently a Director of Sabre Resources Limited (ASX:SBR), Golden Deeps Limited (ASX:GED) and Metals Australia Ltd (ASX:MLS).

## Mr Neville Bassett

### Director (Non Executive)

Mr Bassett is a Chartered Accountant specialising in corporate, financial and management advisory services. Mr Bassett has spent more than 35 years working in accounting, finance and stockbroking. During that time, he's had considerable involvement in Australian financial markets including numerous public company listings and capital raisings, as well as mergers and acquisitions. Mr Bassett is the principal director of Westar Capital Limited, the holder of an Australian Financial Services License. He was previously State Chairman and a former National Director of the Royal Flying Doctor Service.

Mr Bassett currently is Non-Executive Chairman of Auris Minerals Ltd (ASX:AUR), Non-Executive Director of Pharmaust Ltd (ASX:PAA), Pointerra Ltd (ASX:3DP).

## Dr Allison Dugdale

### Director (Non Executive)

Dr Allison Dugdale holds a PhD from the University of Western Australia in economic geology and a first-class honours degree in geology from the University of Melbourne.

Dr Dugdale has over 30 years' minerals industry and academic experience, including 15 years in senior exploration roles with several major companies, including Western Mining Corporation and Newmont. She has also spent 16 years in research and tertiary teaching, reaching the position of Senior Lecturer in Ore Deposit Geology at Curtin University until 2020. Since then, she has been the principal geologist of a geological consultancy which provides exploration targeting services to mineral exploration companies in Australia and North America.

## Management:

### Jon Dugdale

#### Technical Advisor, CP

Jon Dugdale is a geologist with 35 years experience in Australia and Asia and an established track record of discovery, including involvement with gold, nickel and copper-gold discoveries with WMC, MPI Mines and recently with Tennant Minerals.

Jon also has a broad range of corporate experience as Managing director/CEO of several junior resource companies focused in Australia and Asia on nickel-cobalt, graphite and copper-gold projects as well as funds management experience with Lion Selection Group.

### Stuart McCallum

#### Senior Geologist

Experienced exploration geologist specializing in project management and advanced project exploration with over 30 years' experience in minerals exploration

### Stuart Usher

#### Company Secretary



## Contact Details

**Jon Dugdale**

Technical Advisor, CP (FAusIMM)

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