

# Investor Update

August 2023



ASX code : HMG

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The information in this report that relates to Exploration Results is based on information compiled by Mr. Peter Bewick who is a Member of the Australasian Institute of Mining and Metallurgy. Mr. Bewick hold shares and options in Hamelin. He is a full time employee of Hamelin, and has sufficient experience which is relevant to the style of mineralisation under consideration to qualify as a Competent Person as defined in the 2012 Edition of the 'Australian Code for Reporting of Exploration Results, Mineral Resources and Ore Reserves'. Mr Bewick consents to the inclusion in the report of the matters based on the information compiled by him, in the form and context in which it appears.

Hamelin confirms that it is not aware of any new information or data that materially affects the information in the relevant ASX releases and the form and context of the announcement has not materially changed. Hamelin 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.

The 'Newmont Tanami Operations AGES Paper 20 March 2018' referred to in this presentation is Schneider S., Perazzo S., Griesel L., Robinson C. 2018 Tanami Operations, Callie mine: Multiple new discoveries supporting transformational growth in a mature mining camp. NTGS AGES conference paper 2018, and can be found at:

[https://geoscience.nt.gov.au/gemis/ntgsjspui/bitstream/1/87086/4/SchneiderAGES2018\\_paper.pdf](https://geoscience.nt.gov.au/gemis/ntgsjspui/bitstream/1/87086/4/SchneiderAGES2018_paper.pdf)

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



# Introduction

- ~2,500km<sup>2</sup> belt scale project in the Tanami Province, Western Australia
- Under-explored belt in a Tier 1 gold province also prospective for REE and Ni-Cu-PGE deposits
- Located 100km west of the Giant Callie Gold deposit owned by Newmont
- Geological, geochemical and structural learnings deliver multiple new camp scale targets
- Major shareholders Gold Fields Ltd and Silver Lake Resources
- EIS co-funded drilling grants of up to \$540K for programs at Sultan, Hutch's Find and REE targets



# Hamelin Gold

## Directors, Key Management and capital structure



**Mr Will Robinson**  
**Non Executive Chairman**  
*B.Comm, MAusIMM*

- Managing Director of Encounter Resources for the past 15 years
- Non-Executive Director of Hampton Hill Mining
- Former President of the Association of Mining and Exploration Companies



**Mr Peter Bewick**  
**Managing Director**  
*B.Eng (Hons), MAusIMM*

- Geologist with over 30 years industry experience
- Former Exploration Director of Encounter Resources (2005-2021)
- Non-Executive Director of Encounter Resources and Mincor Resources



**Mr Justin Osborne**  
**Non Executive Director**  
*B.Sc (Hons), FAusIMM, MAICD*

- Former Exploration Manager (2013-14) and Executive Director (2015-21) of Gold Road Resources
- Previous 10 years at Gold Fields in senior exploration and development strategy roles
- Non-Executive Chairman of Matador Mining and Non-Executive Director of IGO Group and Astral Resources



**Mr Philip Crutchfield**  
**Non Executive Director**  
*B.Comm., LL.B (Hons), LL.M LSE*

- Current Non-Executive Director of Encounter Resources, Dreadnought Resources and Black Cat Syndicate
- Former Chairman of Zip Co (2015-21)
- Board member of the Victorian Bar Foundation and Melbourne Law School Foundation

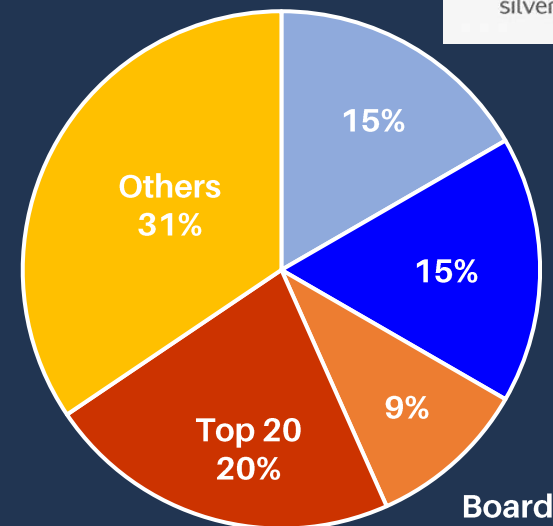


**Mr Clayton Davys**  
**Exploration Manager**  
*B.Sc (Hons)*

- Geologist with over 25 years industry experience
- Former Exploration Manager of Gold Road Resources and Pioneer Resources

### CAPITAL STRUCTURE

Shares on Issue	157.5M
Director, ESOP and broker options	11.4M
Market capitalisation (@9.0c)	\$14.2m
Cash (30/06/2023)	\$7.7M
Enterprise value	\$6.5M

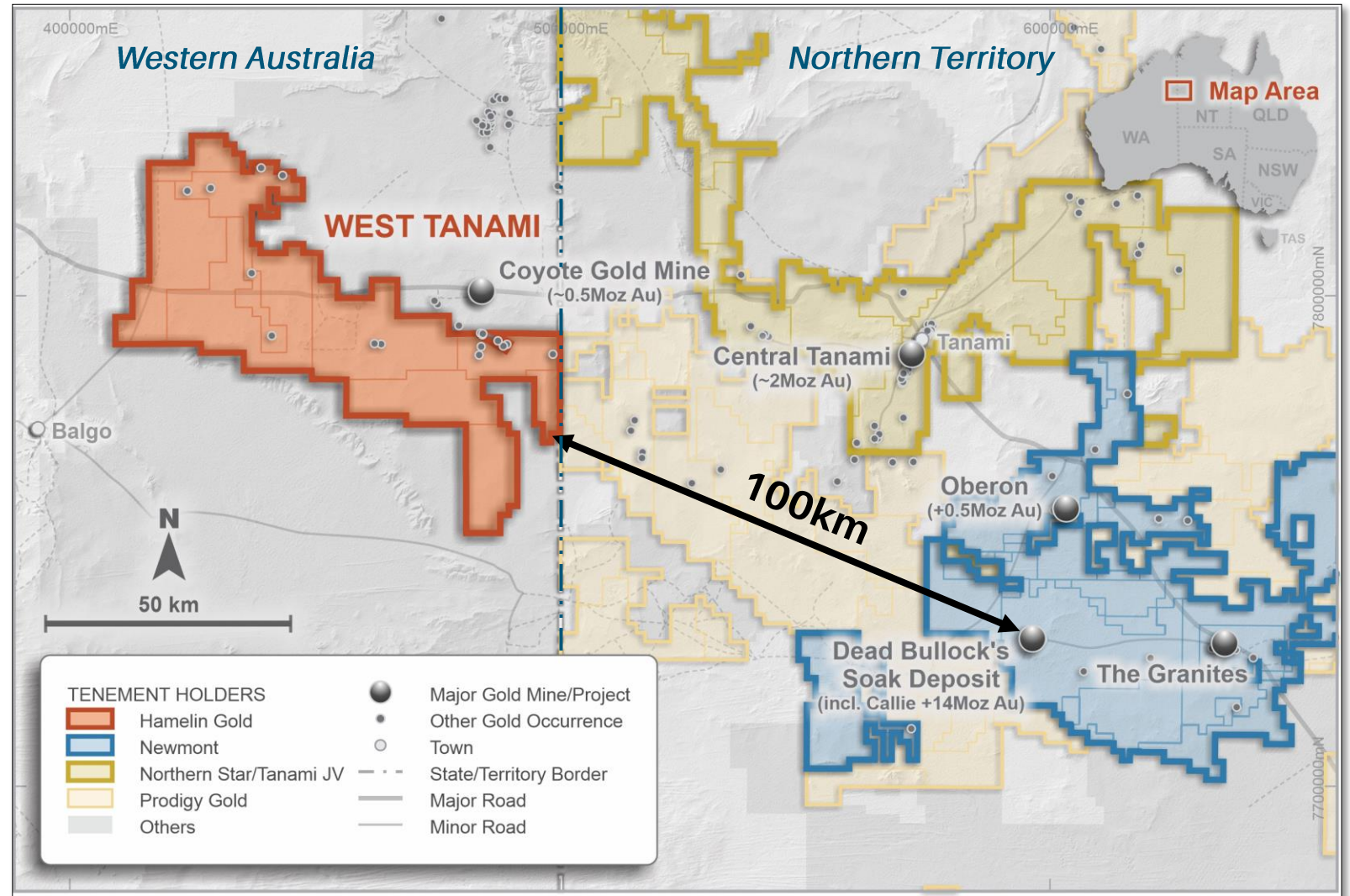


# West Tanami: A Belt Scale Project in a Tier 1 Goldfield

The Tanami ... host to Newmont's giant **Callie Gold system**

**+25Moz** discovered in the NT with <1Moz in WA

WA... same geology, same key structures, **but largely underexplored**





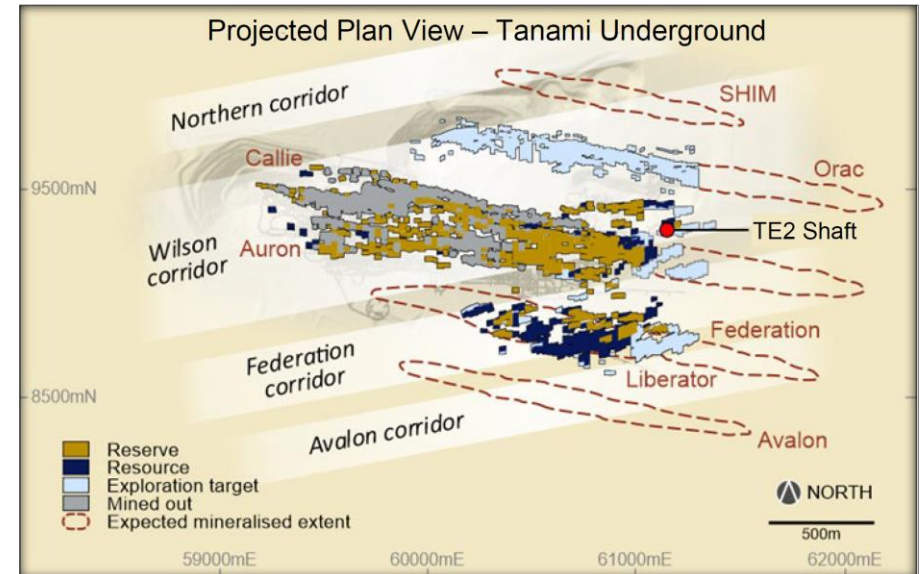
# Newmont's DBS Gold Complex (+14Moz)

## Lowest AISC gold production within Newmont's global portfolio (~\$US650/oz)

- A world class asset producing >500koz pa and projected to grow to ~700koz pa with expected mine life to 2040
- Shallow drilling outlines a 2.5km long near surface footprint at +100ppb Au
- High grade shoots develop at the intersection of refolded folds and mineralizing structures
- Hamelin applying the learnings of over 30yrs of successful exploration in the NT to the underexplored WA side of the same geological province
  - Understanding the regolith
  - Understanding structural and geological architecture



2.5km by 1km gold anomaly (100ppb Au) in shallow drilling



Plan view of Tanami Underground Deposits

# Target Generation : Prediction and Detection

*New Geophysical Datasets : Airborne  
EM, gravity and magnetics*

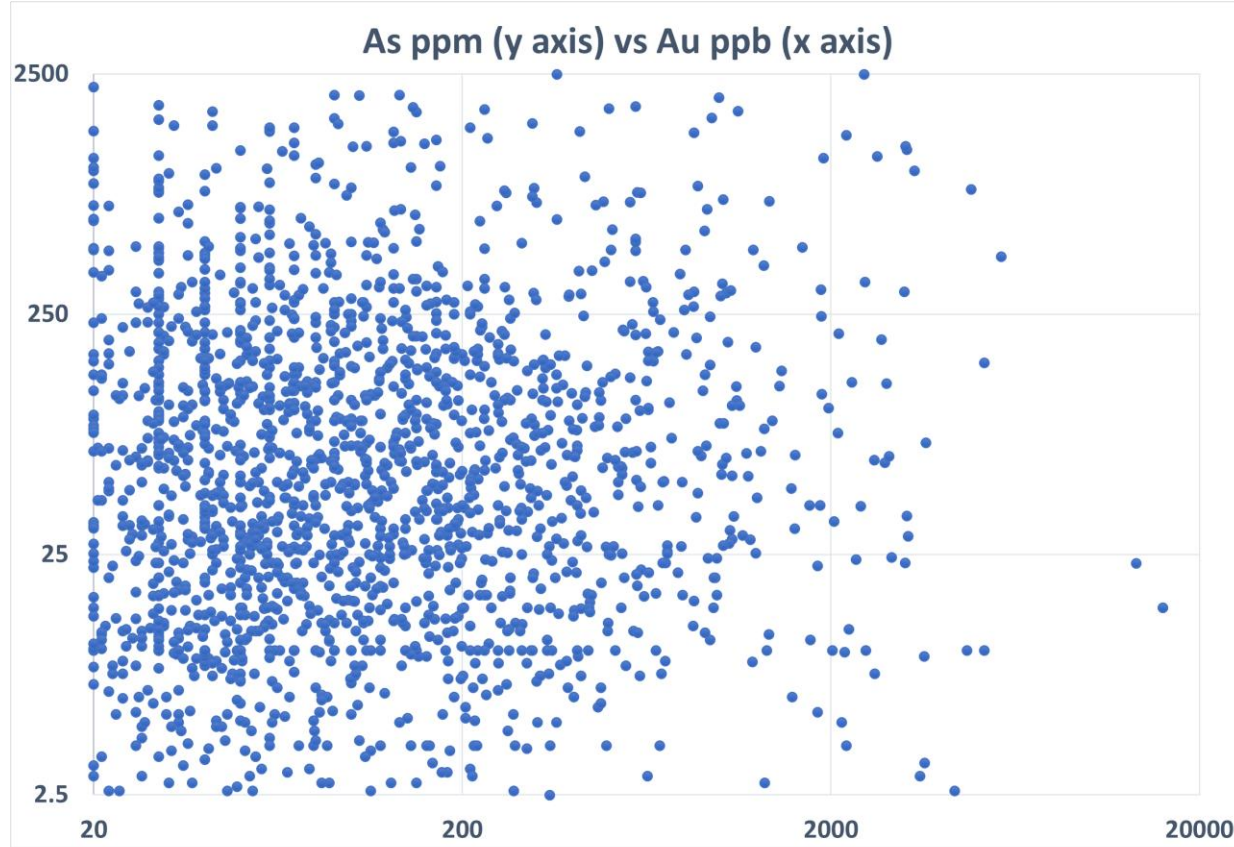


*New Geochemical Tools : CSIRO  
developed Ultrafine<sup>®</sup> soils*

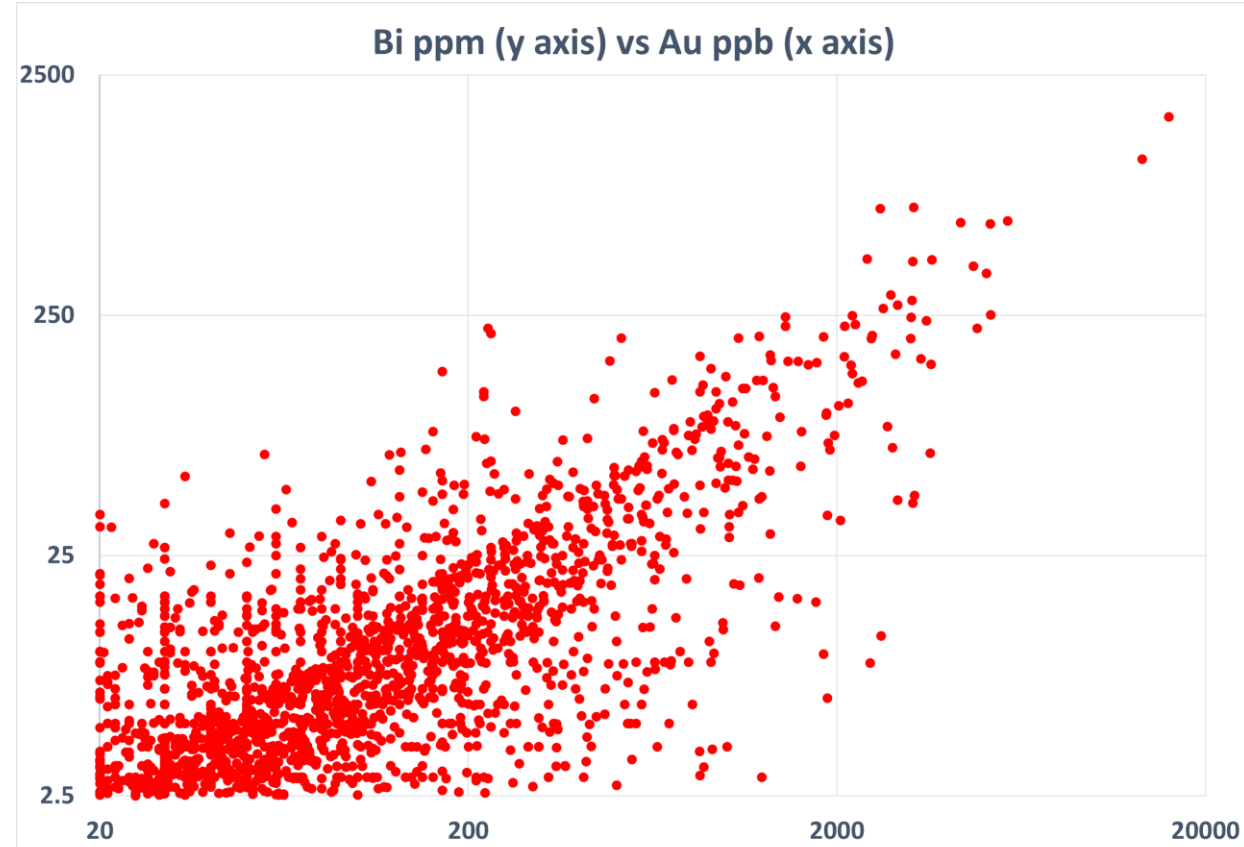




# Geochemical Pathfinder : It's Bismuth not Arsenic



*Very weak correlation between arsenic and gold*



*Very strong correlation between bismuth and gold*

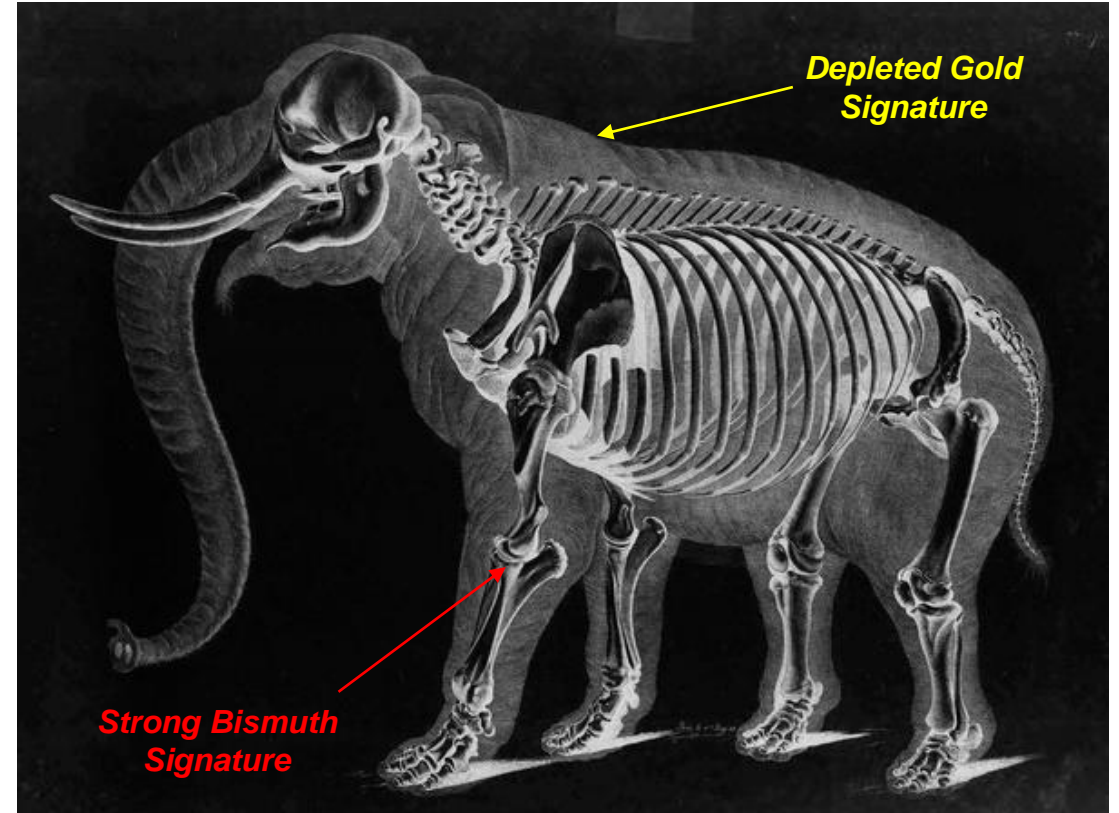
*Graphs show all drilling assay data (>2ppm Bi and >20ppb Au)*



# Searching for an Elephant in the Tanami

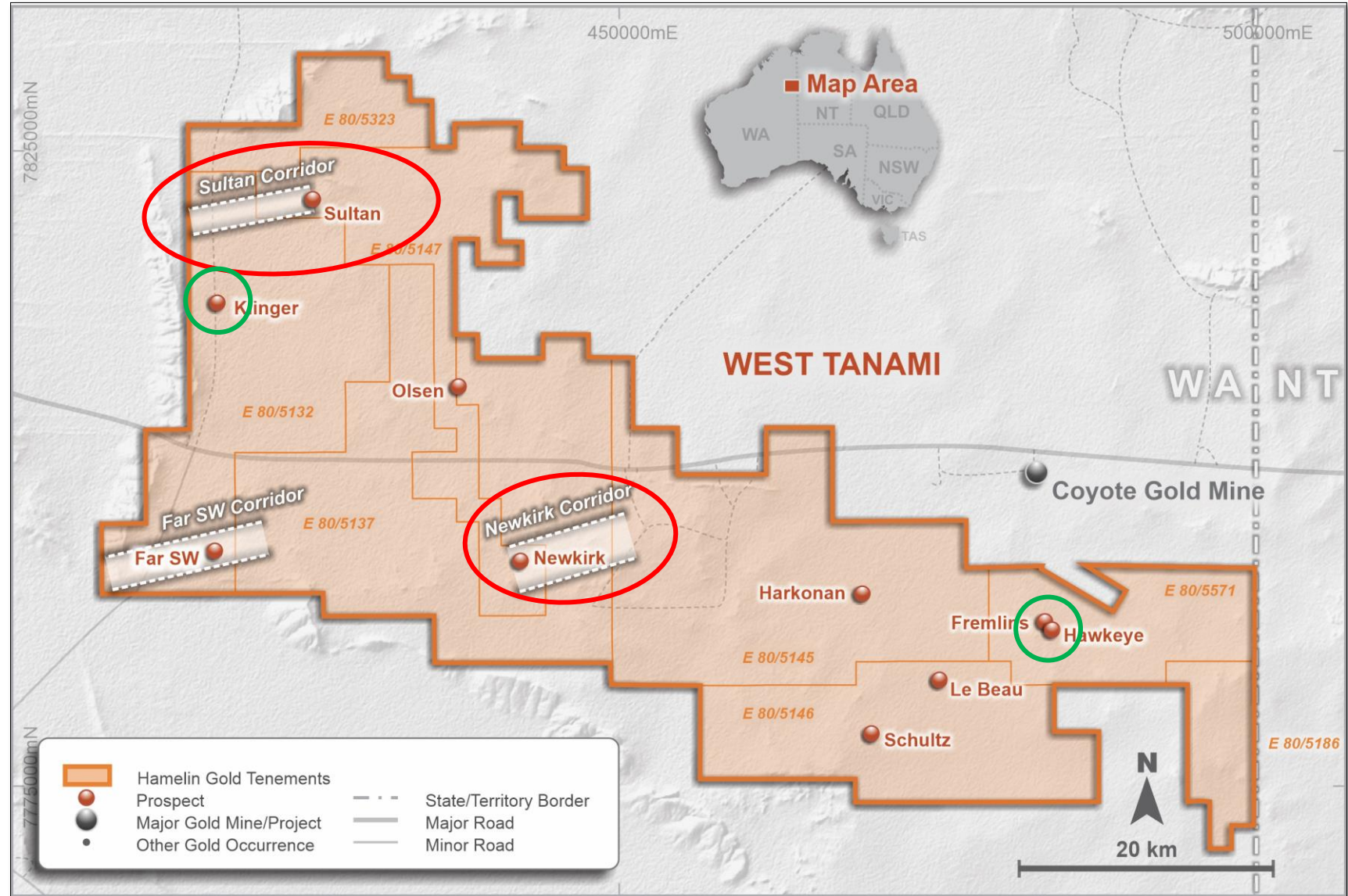


*A multi-million ounce Gold Deposit*



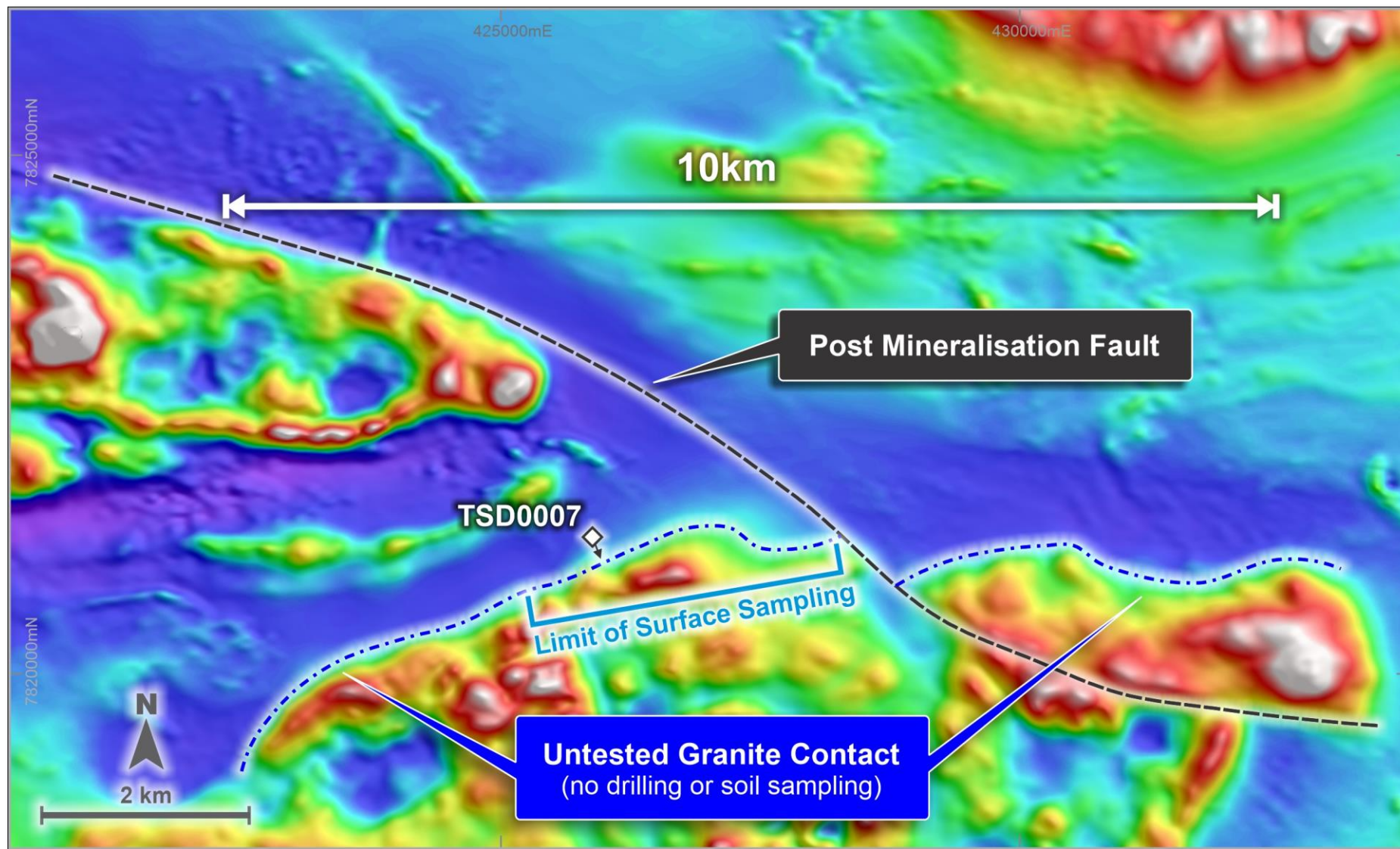
*A weathered and leached multi-million ounce Gold Deposit*

# New Camp Scale Targets

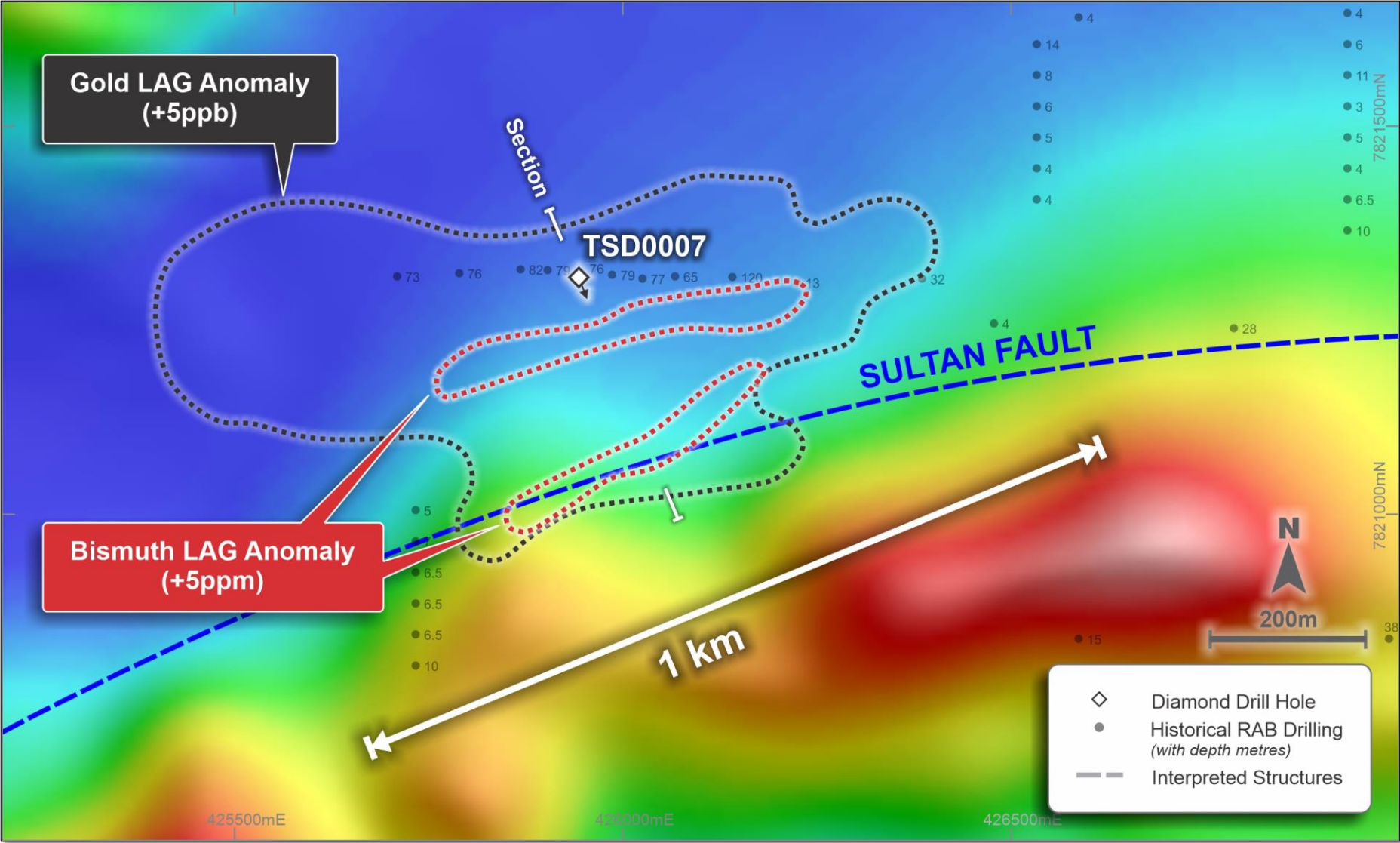




# Sultan Gold Corridor



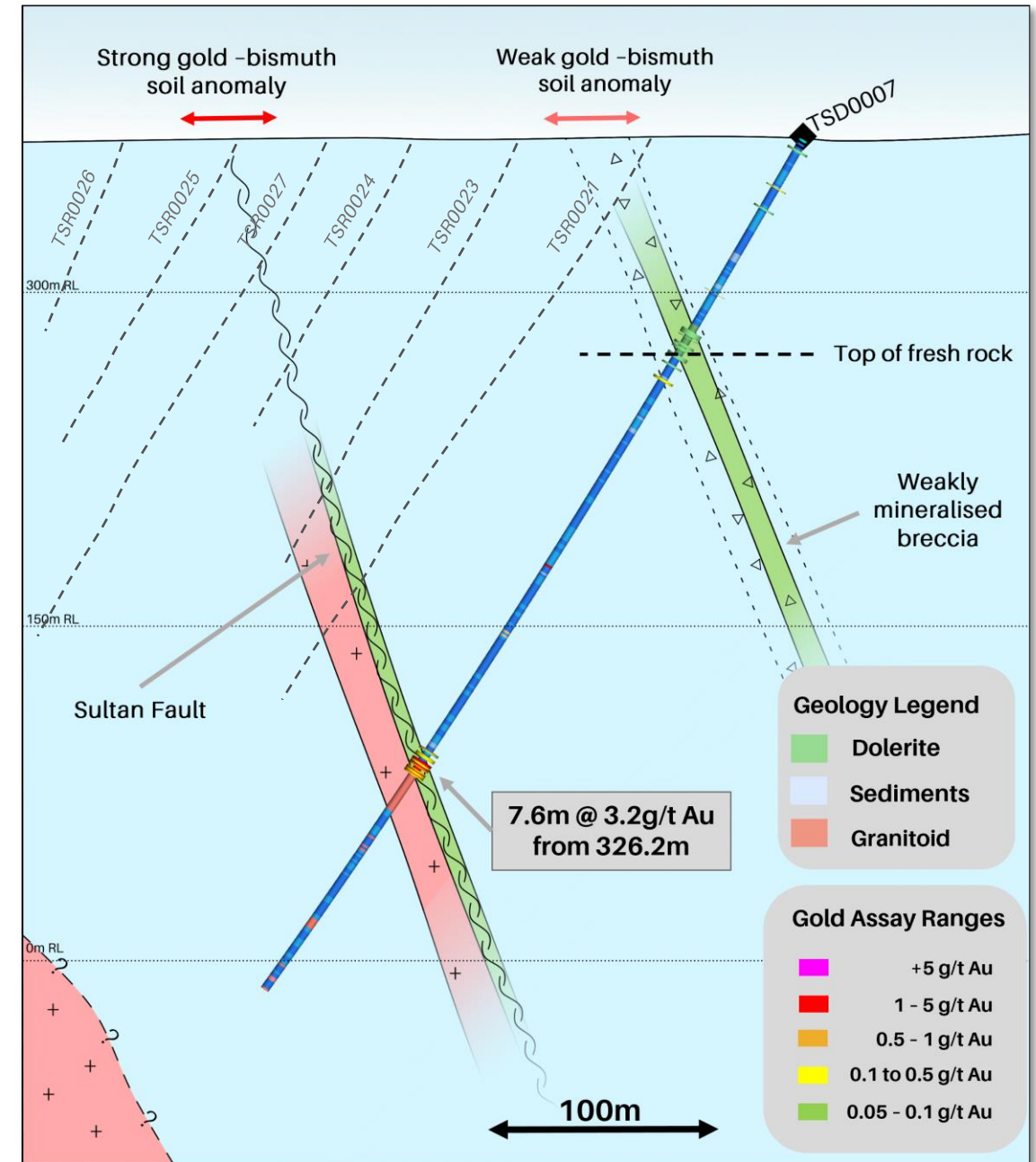
# Sultan Prospect - TSD0007





# Sultan Prospect

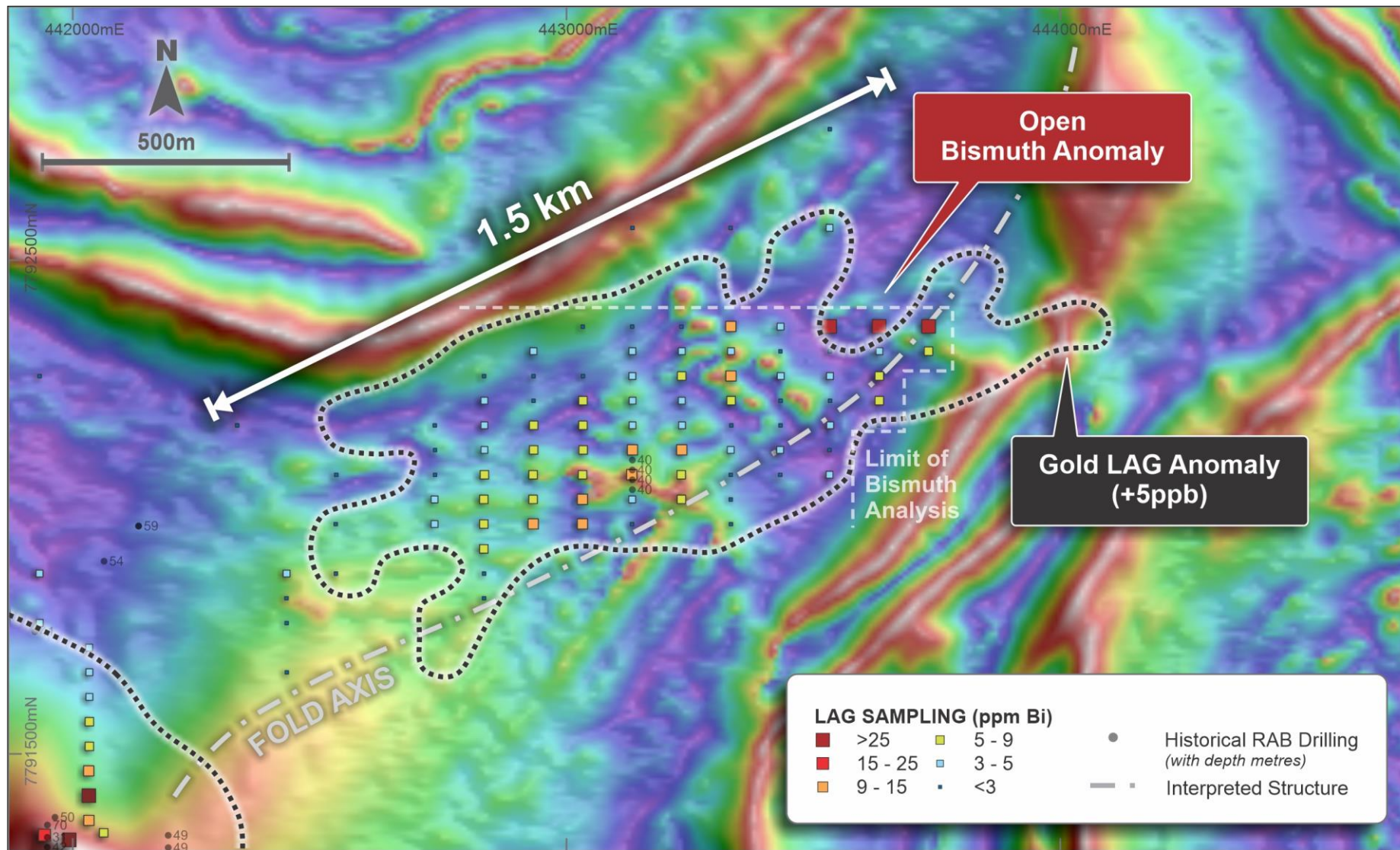
- Single diamond hole drilled below a +1km long gold - bismuth geochemical anomaly
- Untested granite contact - new target style
- TSD0007 intersected faulted and brecciated contact with quartz veining
- Assays returned 7.6m @ 3.2g/t Au from 326.2m including 1.1m @ 15.9g/t Au from 329.7m<sup>1</sup>
- Strong bismuth association ~100ppm Bi per 1 g/t Au
- Bismuth strong pathfinder element within the weathered profile
- Additional soils and drilling along Sultan corridor



**Sultan Prospect - Interpreted Cross Section looking to 240°**

<sup>1</sup> Refer ASX Announcements dated 12 December 2022

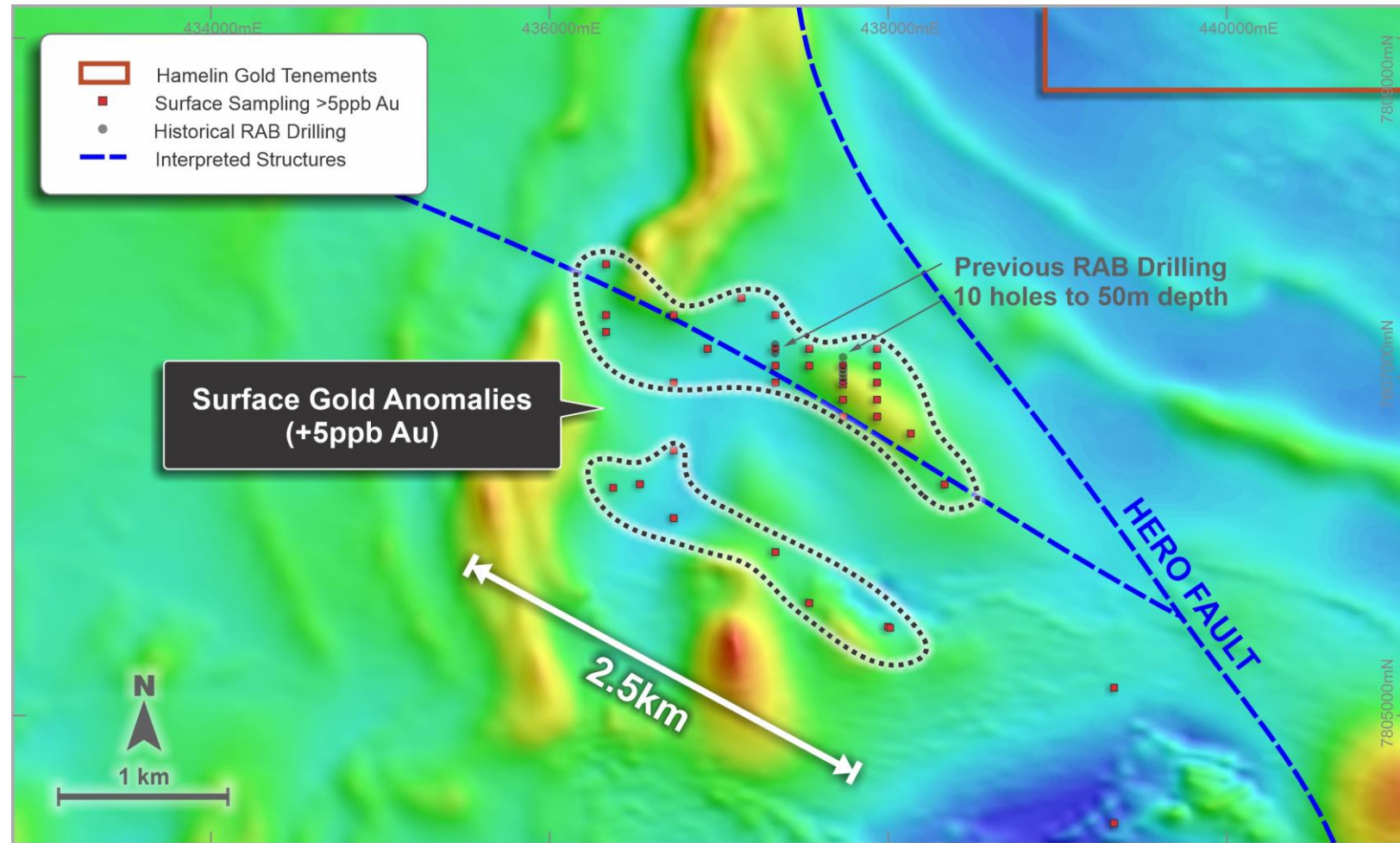
# Newkirk Camp Scale Gold Target





# Olsen Structural Target

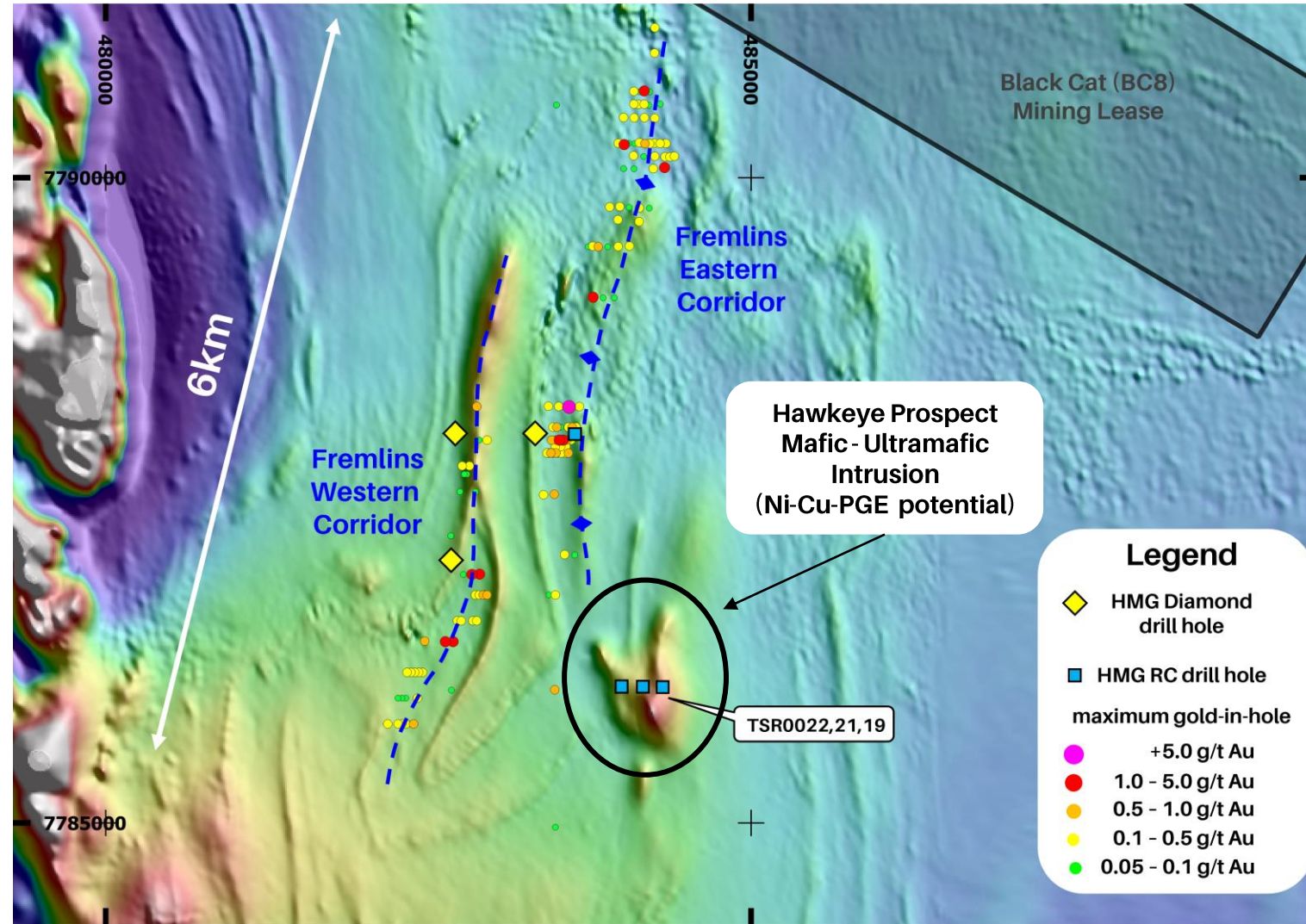
- Major flexure in regional scale structure with clear splay fault
- +2.5km long surface gold anomaly in an area of patchy cover – not analysed for bismuth
- Very limited follow up drilling with only <10m deep vacuum and ~50m deep RAB holes that included:
  - 4m @ 0.15g/t Au from 45m to EOH in BNB006<sup>1</sup>
  - 1m @ 0.61g/t Au from 8m in BNB004<sup>1</sup>
- Aircore drilling planned August 2023



*Olsen Prospect – Geochemical gold anomaly, structural interp and previous drilling (> 10m deep) on magnetics*

# Fremlins Prospect

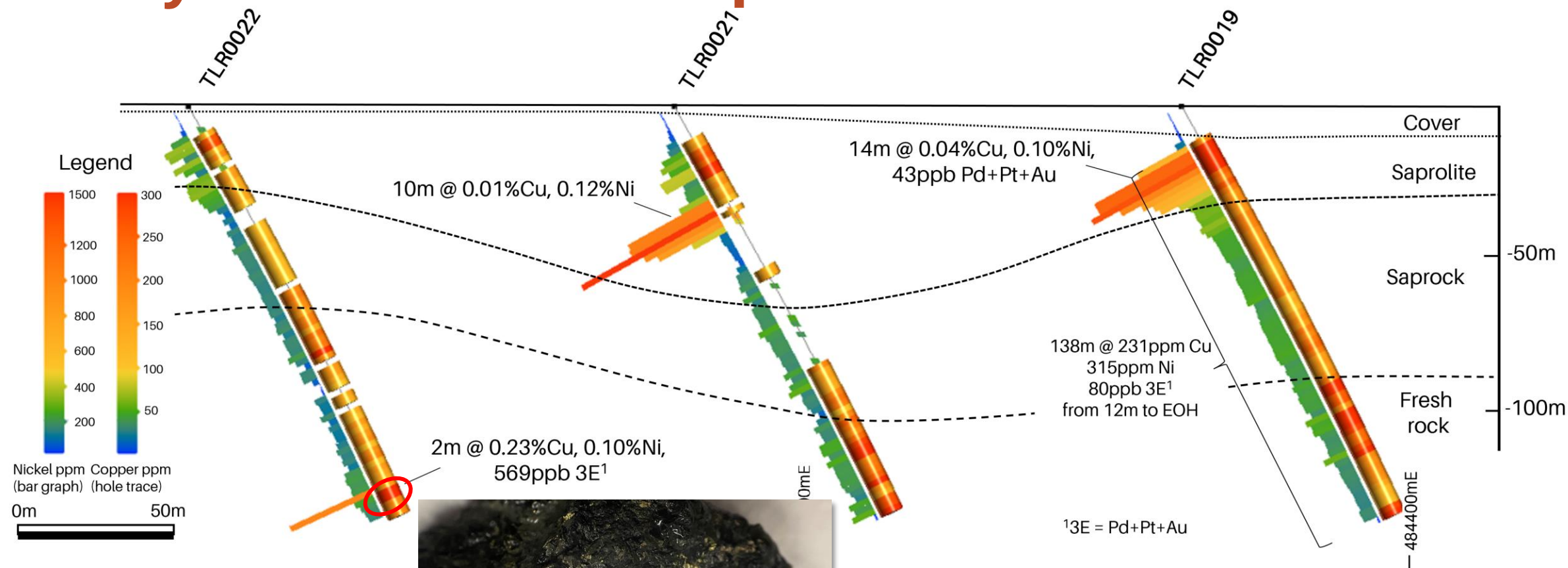
- Tightly folded mafic – sediment sequence on the margin of a gravity high – Callie deposit analogue
- Two defined regolith anomalies extend over 6km of strike (+0.1g/t Au)
- End of hole gold anomalism open along strike and at depth<sup>1</sup>
  - 22m @ 0.6g/t Au from 45m to EOH incl. 6m@ 1.71g/t Au from 57m
  - 30m @ 0.3g/t Au from 9m incl. 1m @ 5.72g/t Au from 12m
  - 80m @ 0.2g/t Au from 52m to EOH
- Surface gold occurrences
- Aircore drilling program in progress



*Fremlins – Drill collar location, max Au-in-hole on detailed TMI magnetics*

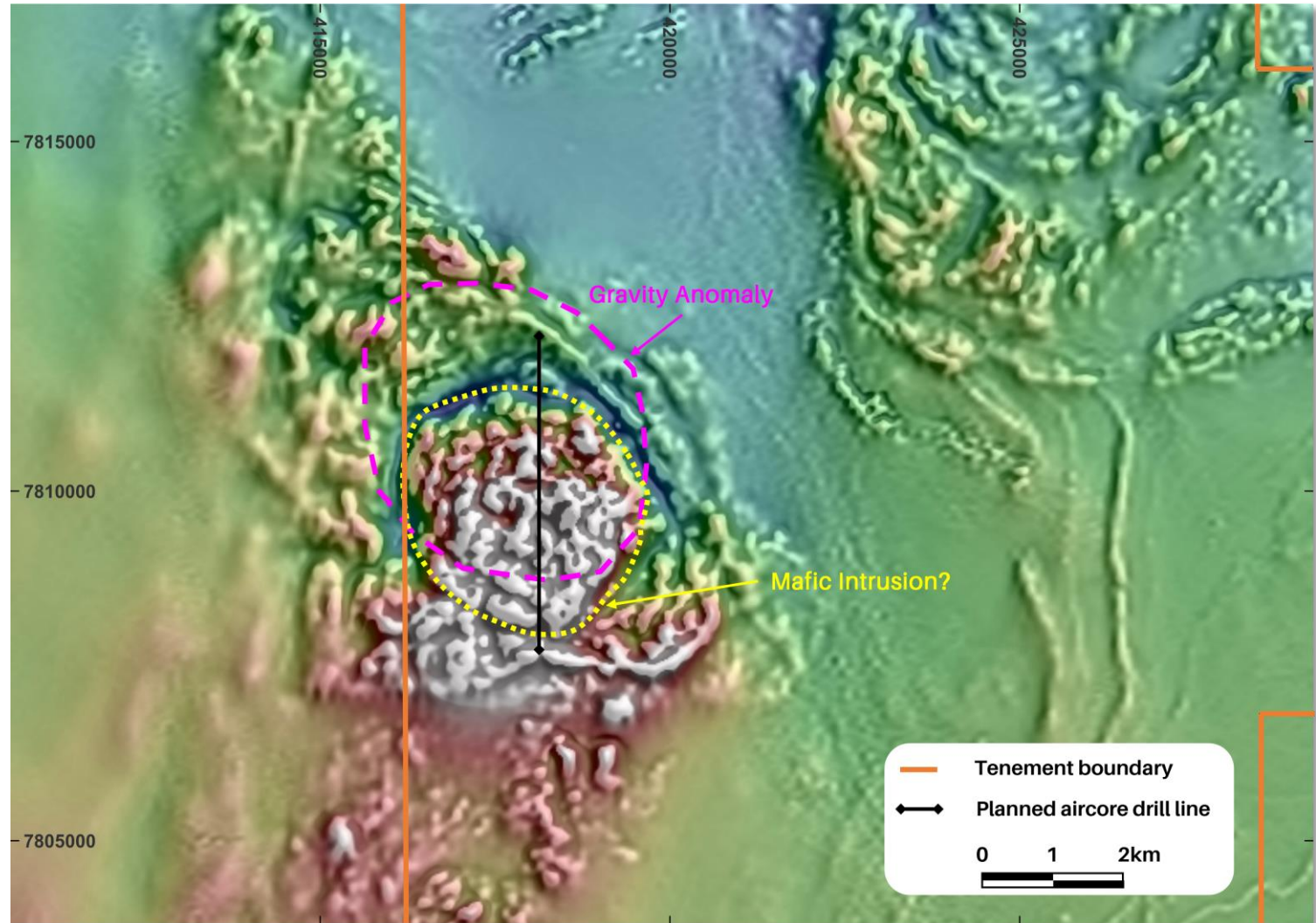


# Hawkeye Ni-Cu-PGE Prospect



# Klinger Ni-Cu-PGE Prospect

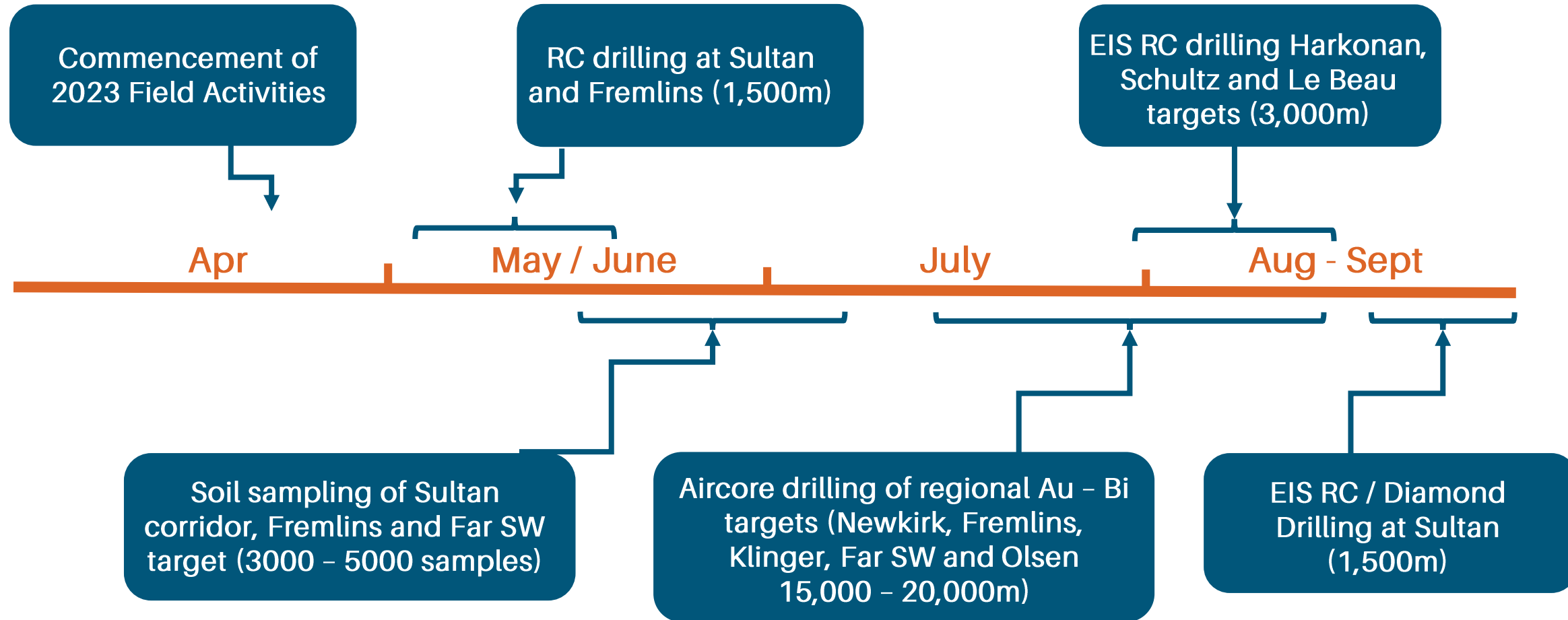
- Discrete coincident magnetic and gravity anomaly
- Previous shallow drilling (<10m) intersected mafic lithologies
- No Ni, Cu or PGE assays
- Additional ground pegged to the west
- Aircore drilling program to be completed in Aug/Sept 2023



*Klinger – Interpreted geology and planned drilling on TMI magnetics*



# Activity Summary (Apr – Sept 2023)





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