

**ASX ANNOUNCEMENT**  
**21 March 2023**



**Brisbane Mining Investor Conference**

Please see attached a copy of the presentation being made by the Company at the Brisbane Mining Investor Conference on 23<sup>rd</sup> March 2023.

Investors may view the presentation to be given at **10am (WST) 12pm (EST) on Thursday 23<sup>rd</sup> March 2023** by copying the following link into their internet browser and registering in accordance with the instructions provided <https://www.brisbaneminingconference.com.au/>

*This announcement has been authorised for release by the Board of Hamelin Gold Limited.*

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**ABOUT HAMELIN GOLD**

Hamelin Gold Limited (**ASX:HMG**) is an ASX-listed exploration company based in Perth, Western Australia. Hamelin has a landholding of ~2,500km<sup>2</sup> in the Tanami Gold Province in Western Australian. The province is prospective for Tier 1 gold deposits and for rare earth element deposits. The Tanami hosts Newmont's +14Moz Callie Operations in the Northern Territory and the Browns Range REE deposit in WA. Hamelin's West Tanami project is a belt-scale greenfields opportunity hosting the same geology and key structures as Callie with minimal modern exploration completed across the Hamelin landholdings.

# Brisbane Mining Investor Conference

22-23 March 2023



ASX code : HMG

# Disclaimer and compliance statement

This presentation has been prepared by Hamelin Gold Limited ("Hamelin"). The information contained in this presentation is a professional opinion only and is given in good faith. Certain information in this document has been derived from third parties and though Hamelin has no reason to believe that it is not accurate, reliable or complete, it has not been independently audited or verified by Hamelin.

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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 Schmeider 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/SchmeiderAGES2018\\_paper.pdf](https://geoscience.nt.gov.au/gemis/ntgsjspui/bitstream/1/87086/4/SchmeiderAGES2018_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 and emerging REE district
- Located 100km west of the Giant Callie Gold deposit owned by Newmont
- High grade gold structure discovered at Sultan in December 2022
- Geochemical and structural learnings deliver multiple new camp scale gold targets
- Major shareholders Gold Fields Ltd and Silver Lake Resources
- Well funded with cash at 31/12/2022 of \$4.3M

# 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



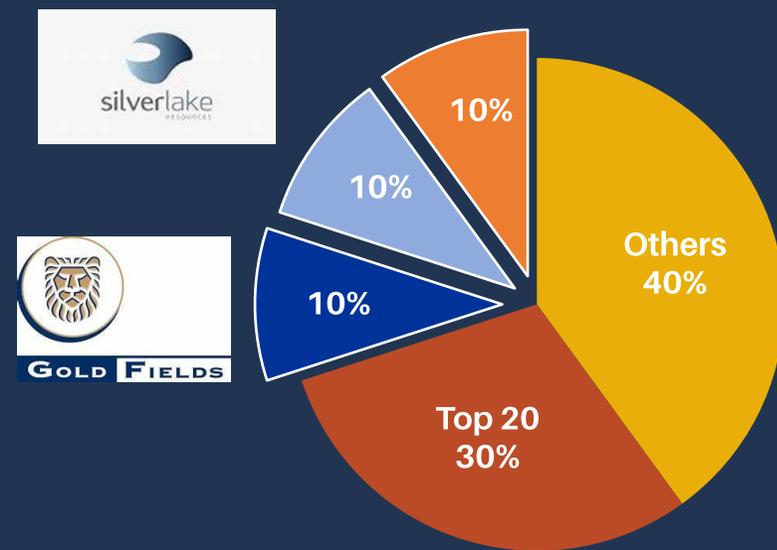
**Mr Clayton Davys**  
**Exploration Manager**  
*B.Sc (Hons)*

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

### CAPITAL STRUCTURE

Shares on Issue	110M
Director, ESOP and broker options	9.25M
Market capitalisation (@\$0.09)	\$10m
Cash (31/12/2022)	\$4.3M
Enterprise value	\$5.7M

Board / Mgmt

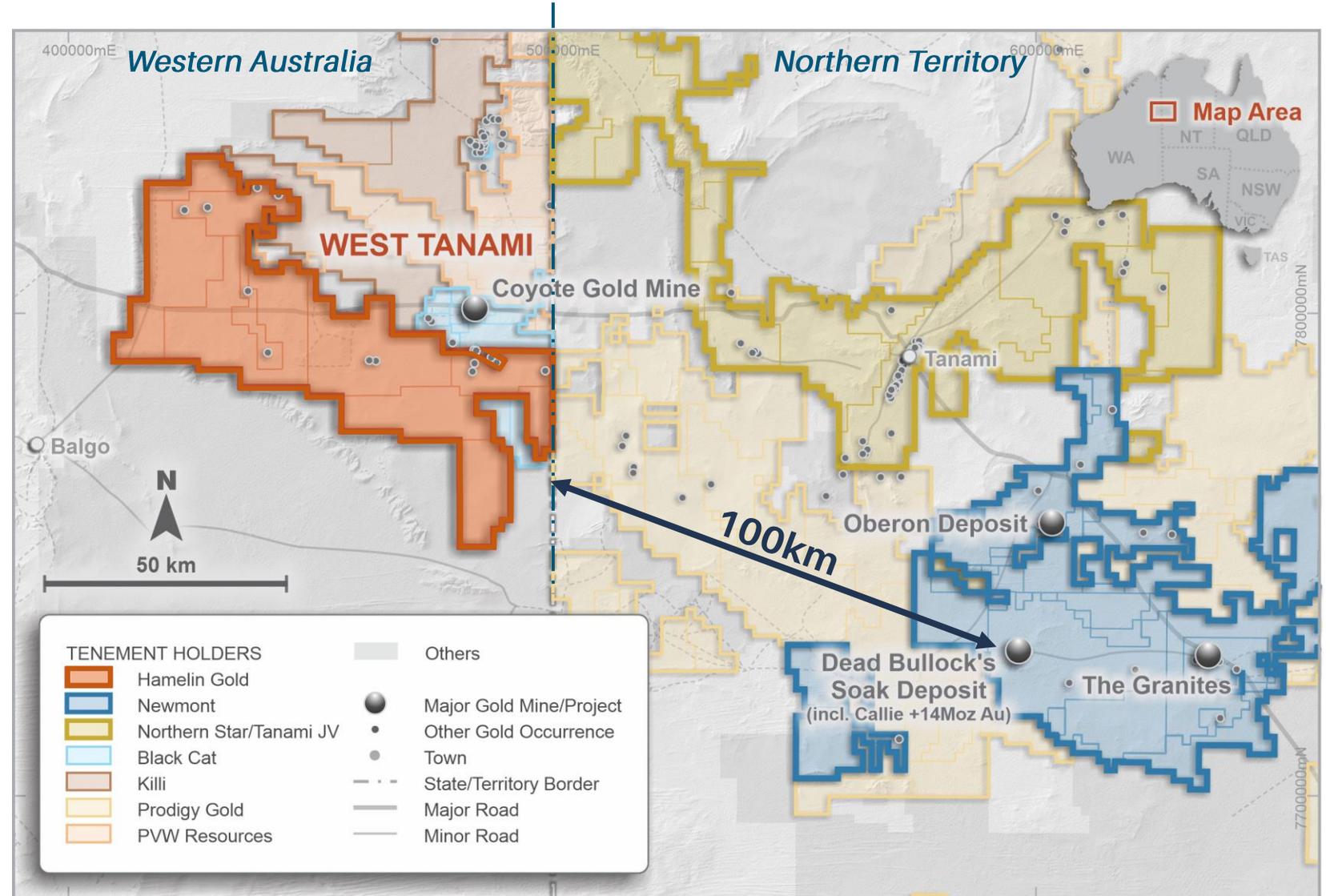


# West Tanami: A Belt Scale Project in a Tier 1 Goldfield

The Tanami in WA... same geology, same key structures, but largely underexplored

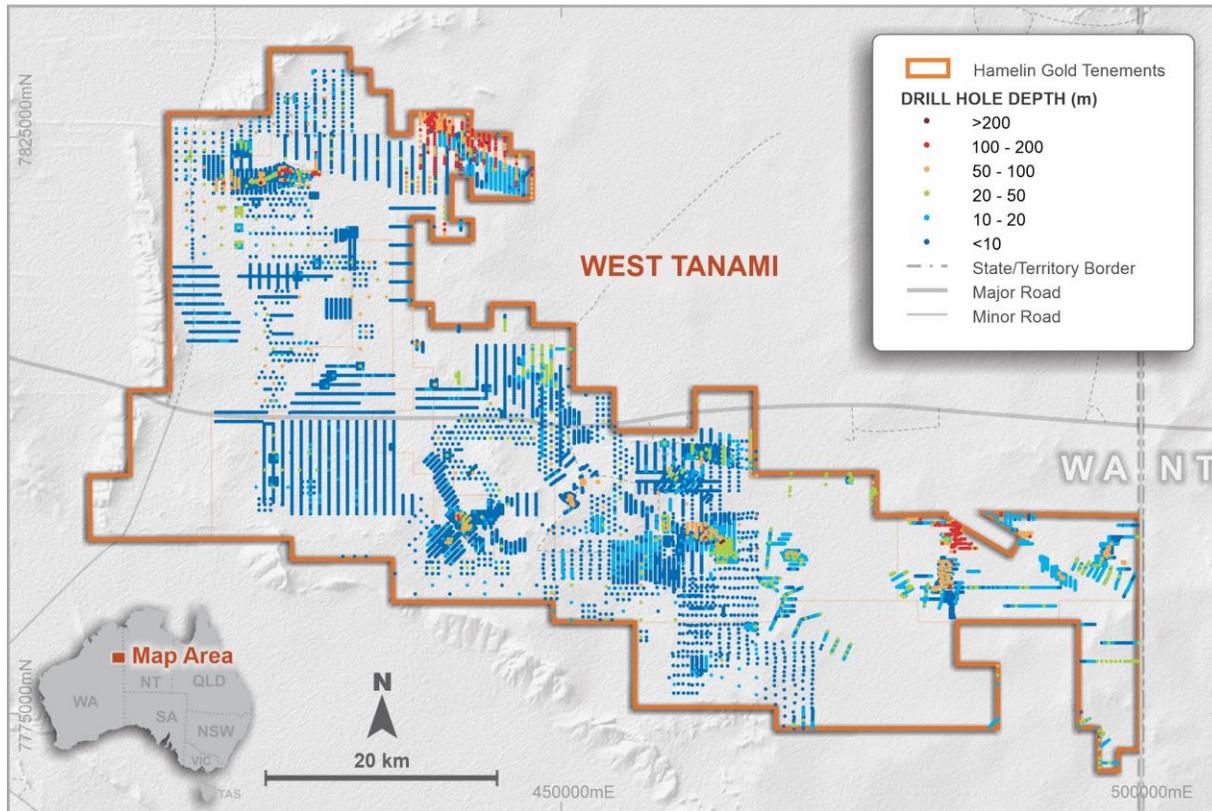
... focus in 2022, understand the regolith and understand structural controls

... focus in 2023, deliver ounces

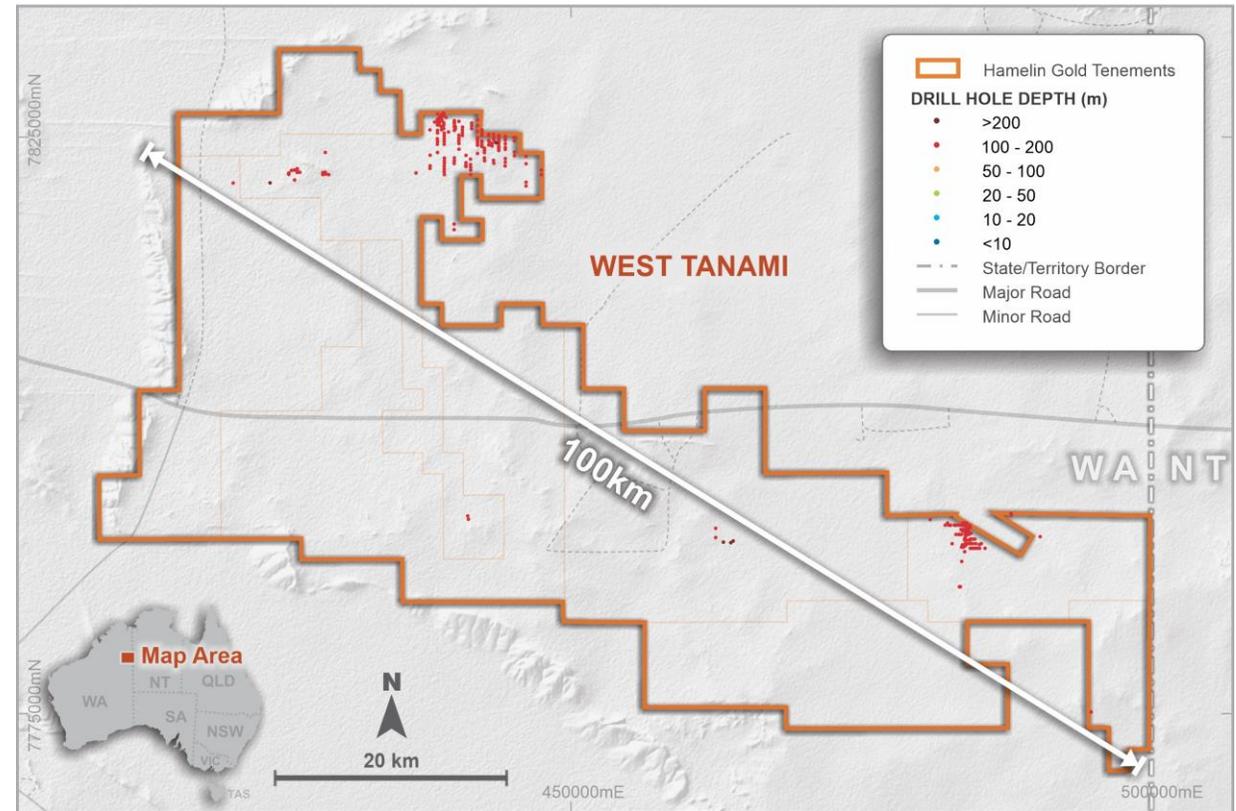


# West Tanami: a 2D exploration history

## Major gold systems identified but only scratched the surface



West Tanami Project – All drill collars (coloured by depth)



West Tanami Project – Drill collars +100m depth



*70% of all holes < 10m deep*

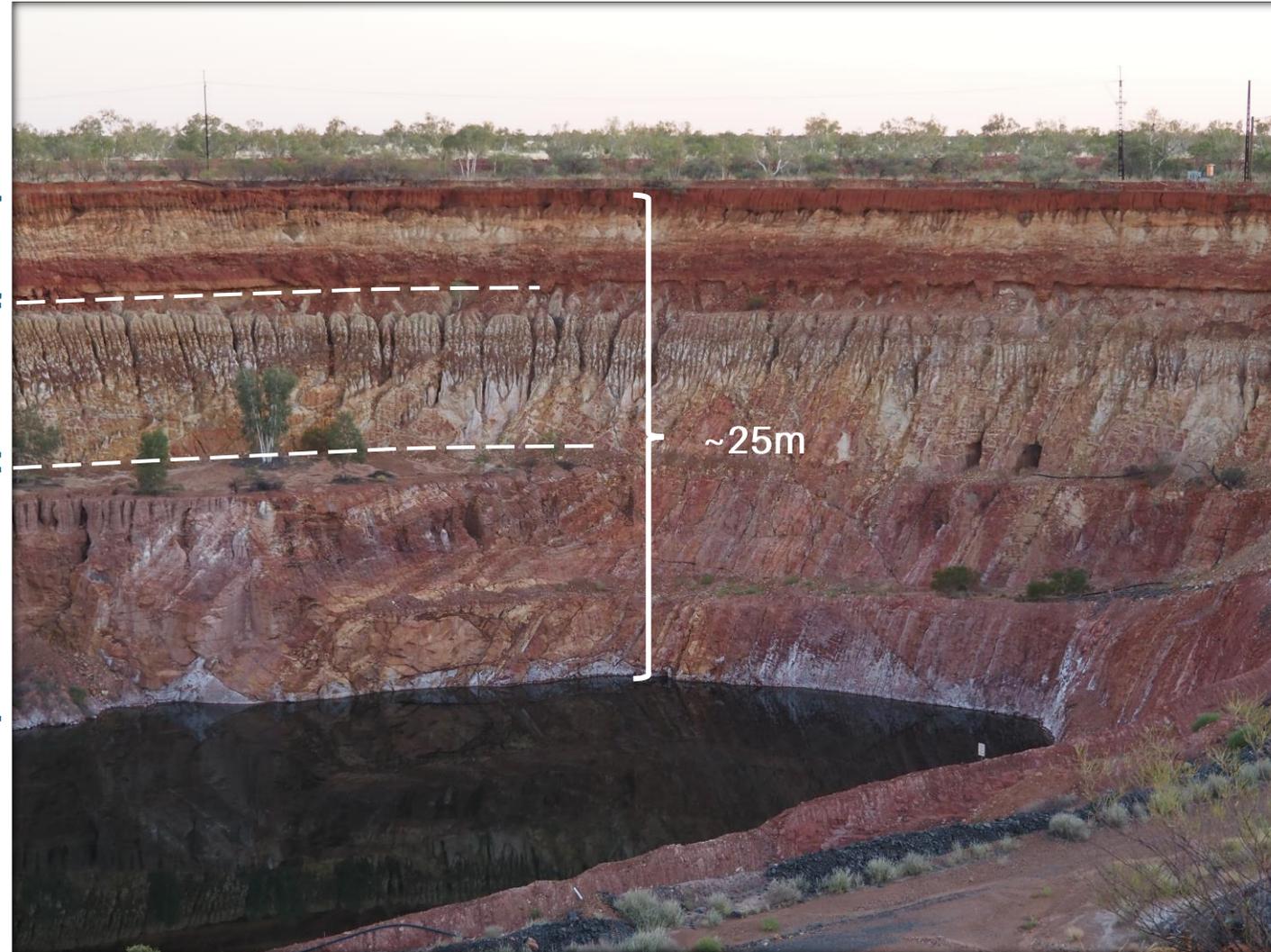
# Ineffective Historical Drilling

## Understanding Gold the Regolith

Cover  
(very weak gold anomalism)

Leached Zone  
(low level supergene gold  
and very narrow primary gold)

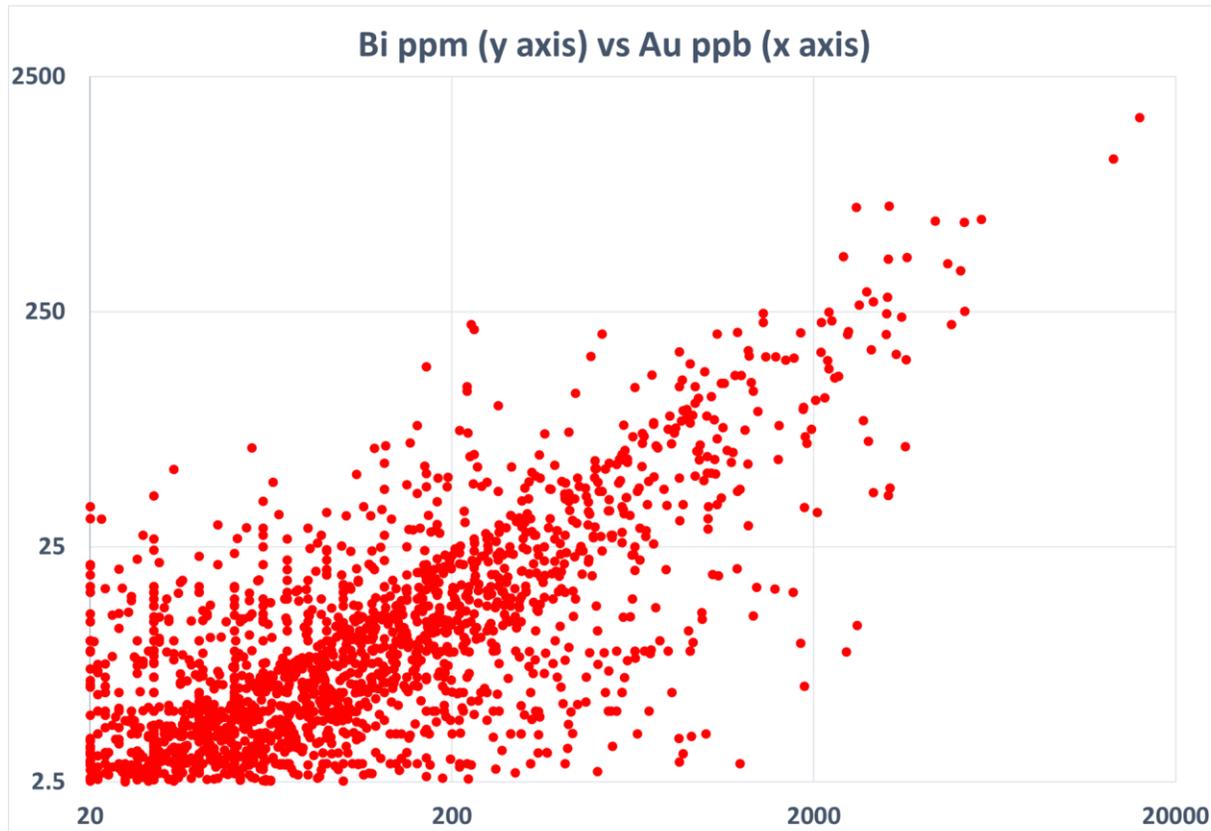
Saprolite / Saprock  
(narrow supergene gold and  
very narrow primary gold)



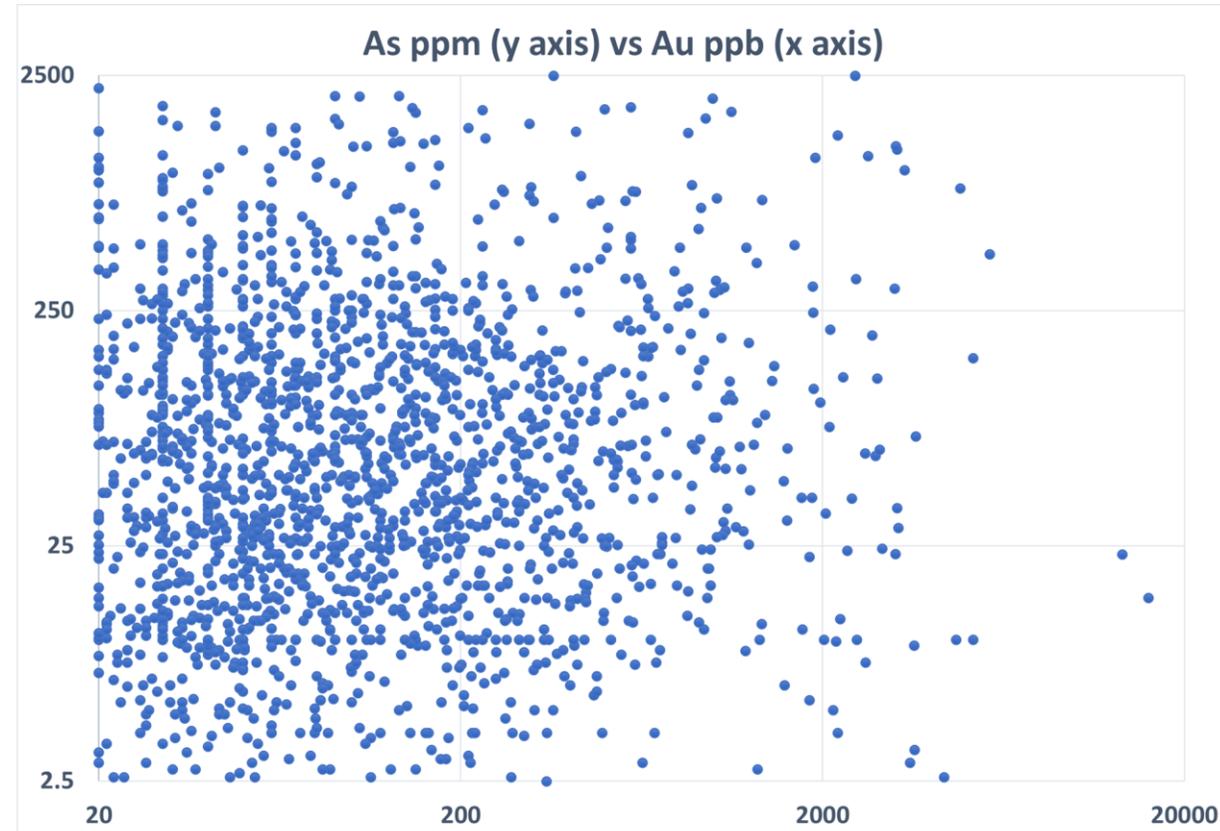
Historical Data

Surface  
Geochemistry  
&  
Shallow  
Drilling

# Geochemistry : It's Bismuth not Arsenic



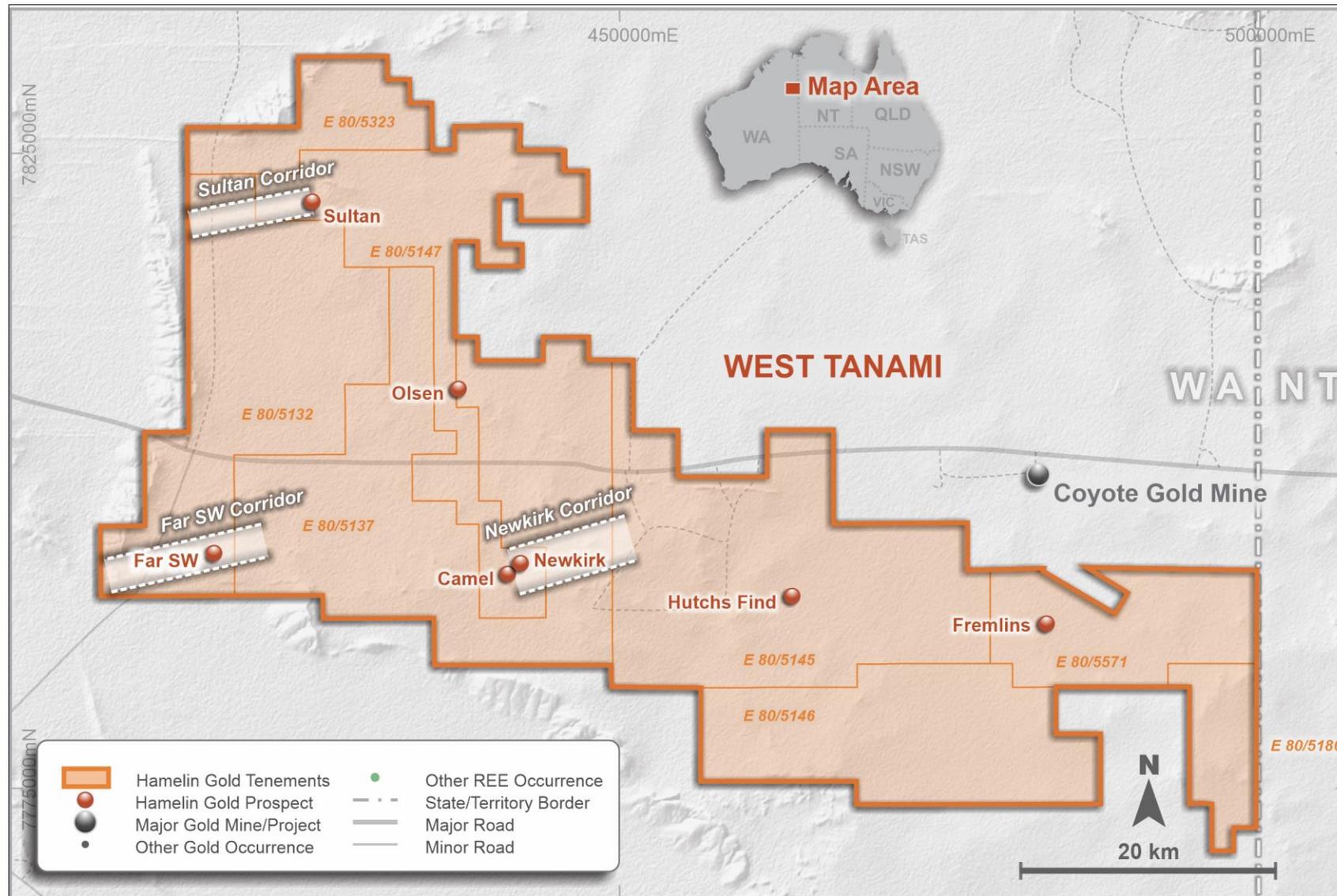
*Very high correlation between bismuth and gold*



*Very low correlation between arsenic and gold*

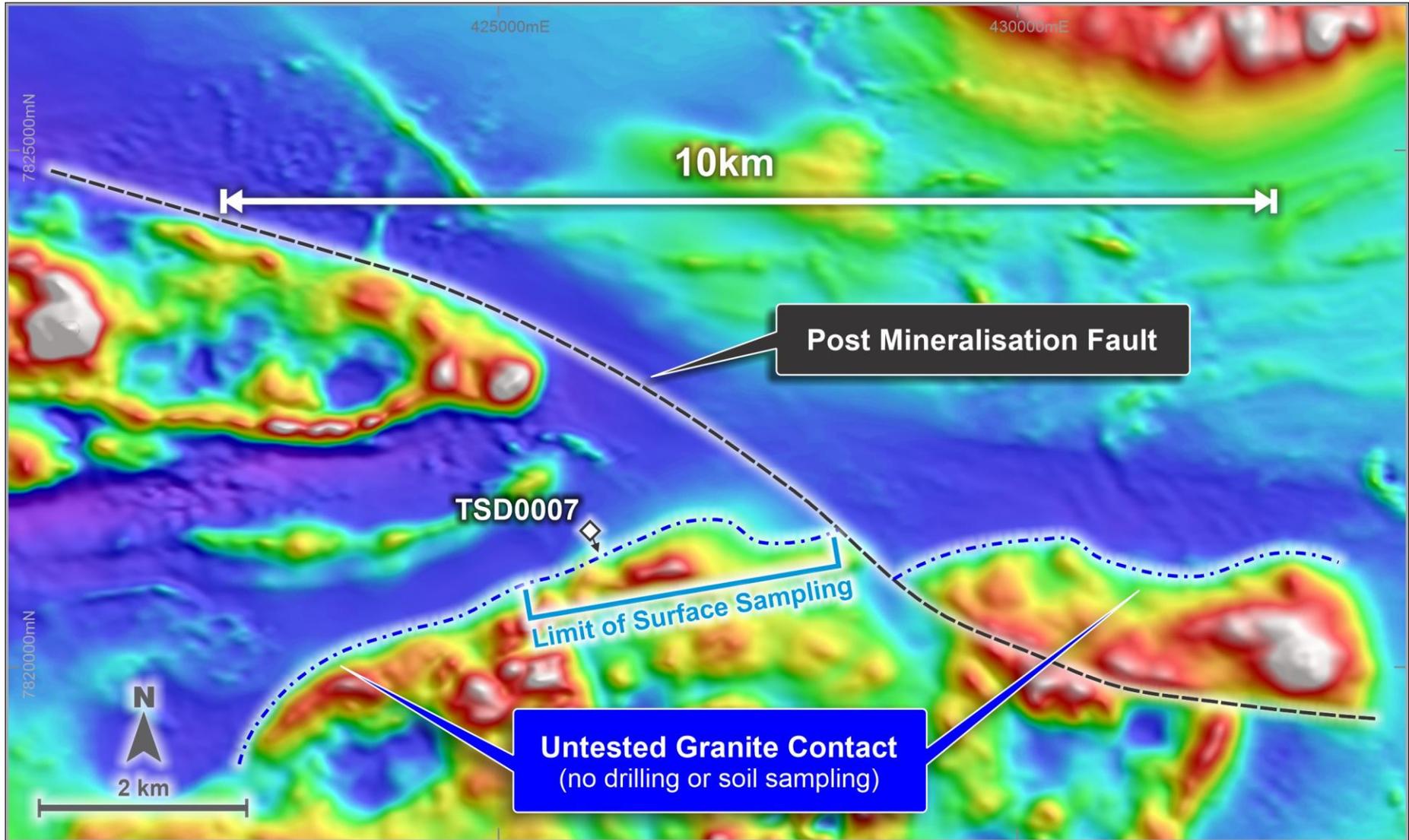
*Graphs show all drilling assay data (>2ppm Bi and >20ppb Au)*

# New Camp Scale Gold Targets

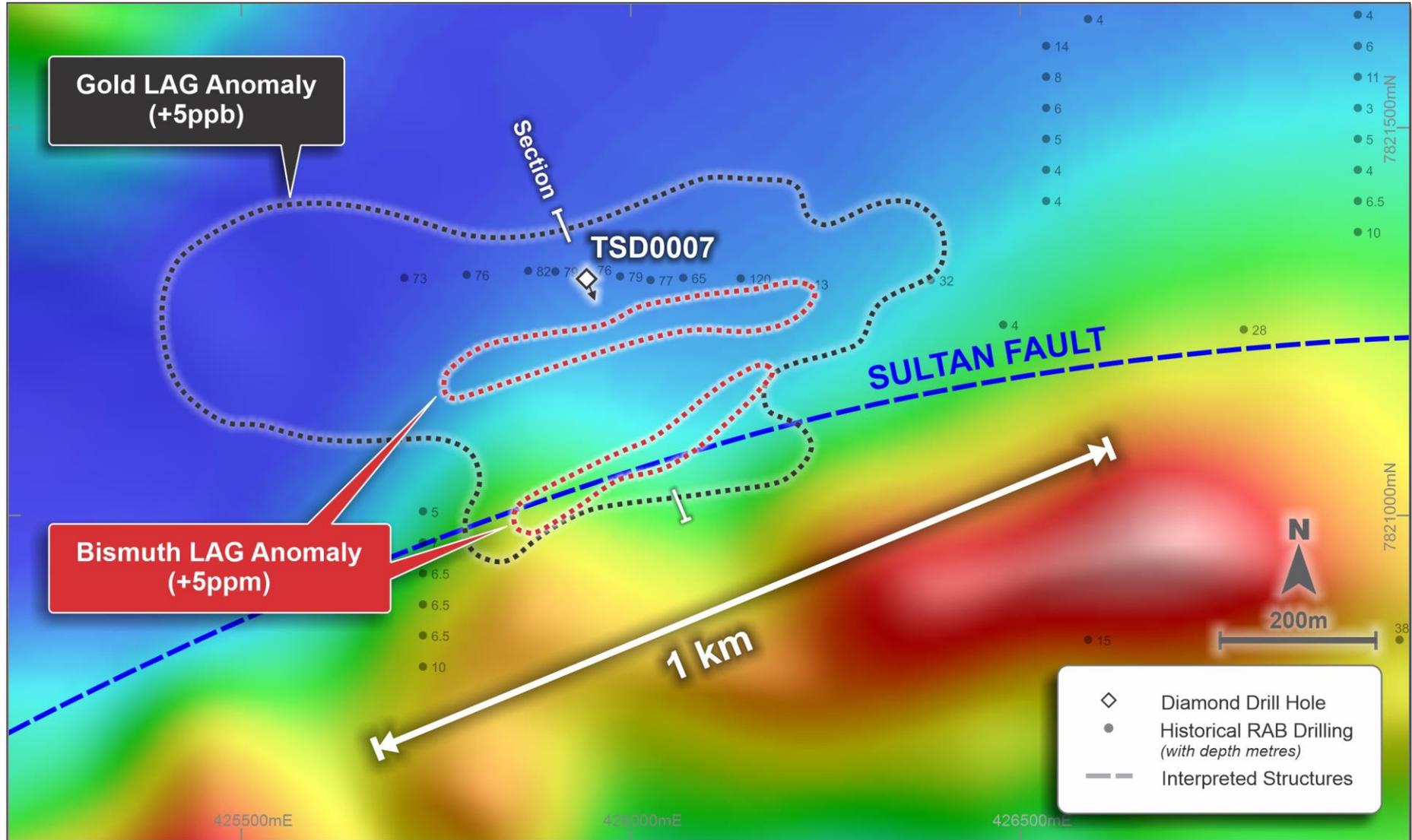


West Tanami Project – Prospect Location Map

# Sultan Gold Corridor

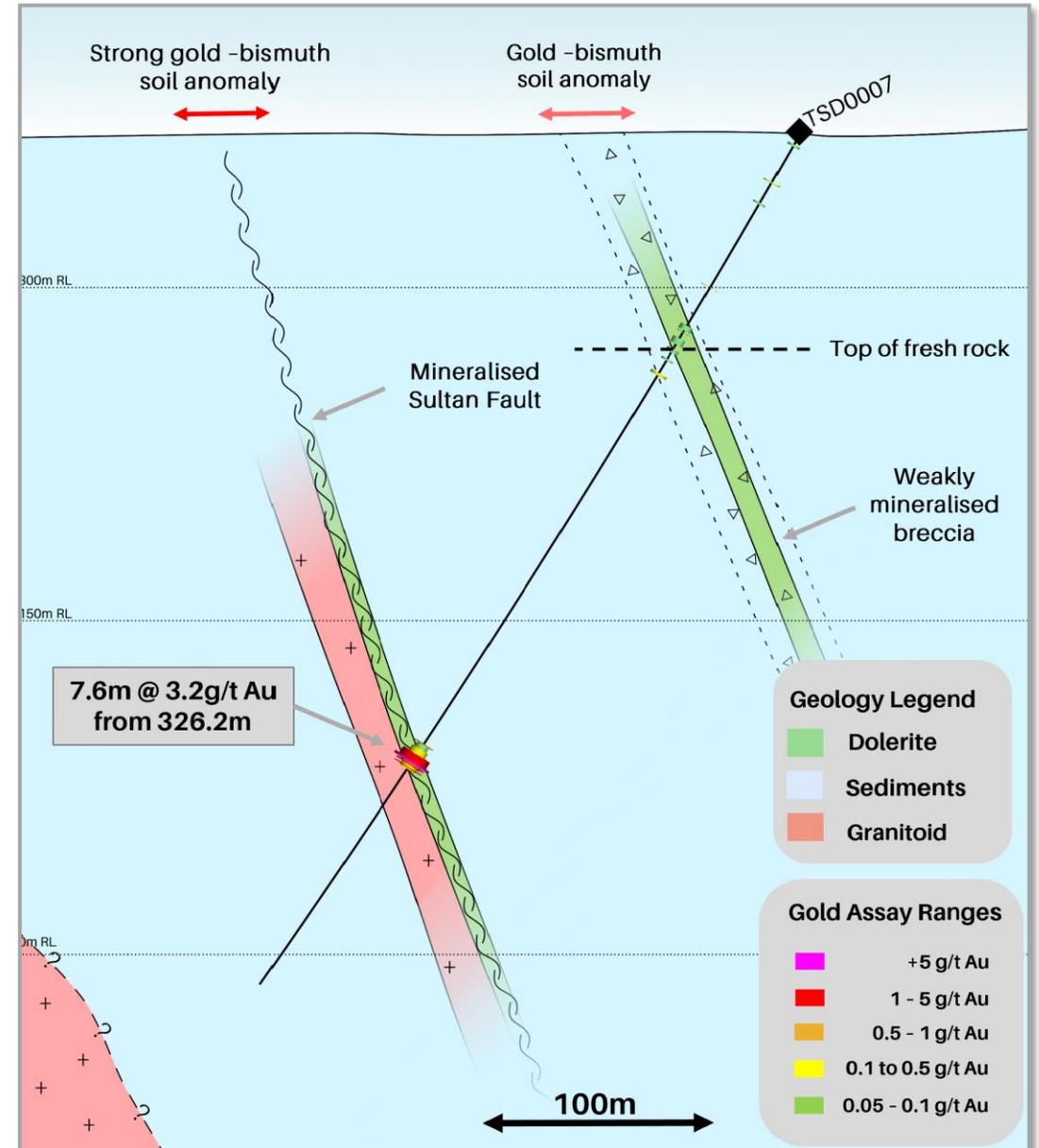


# Sultan Prospect - TSD0007



# 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
- Mineralisation open up dip to surface and along strike to the west and east
- RC drilling planned to commence in April 2023



Sultan Prospect - Interpreted Cross Section looking to 240°

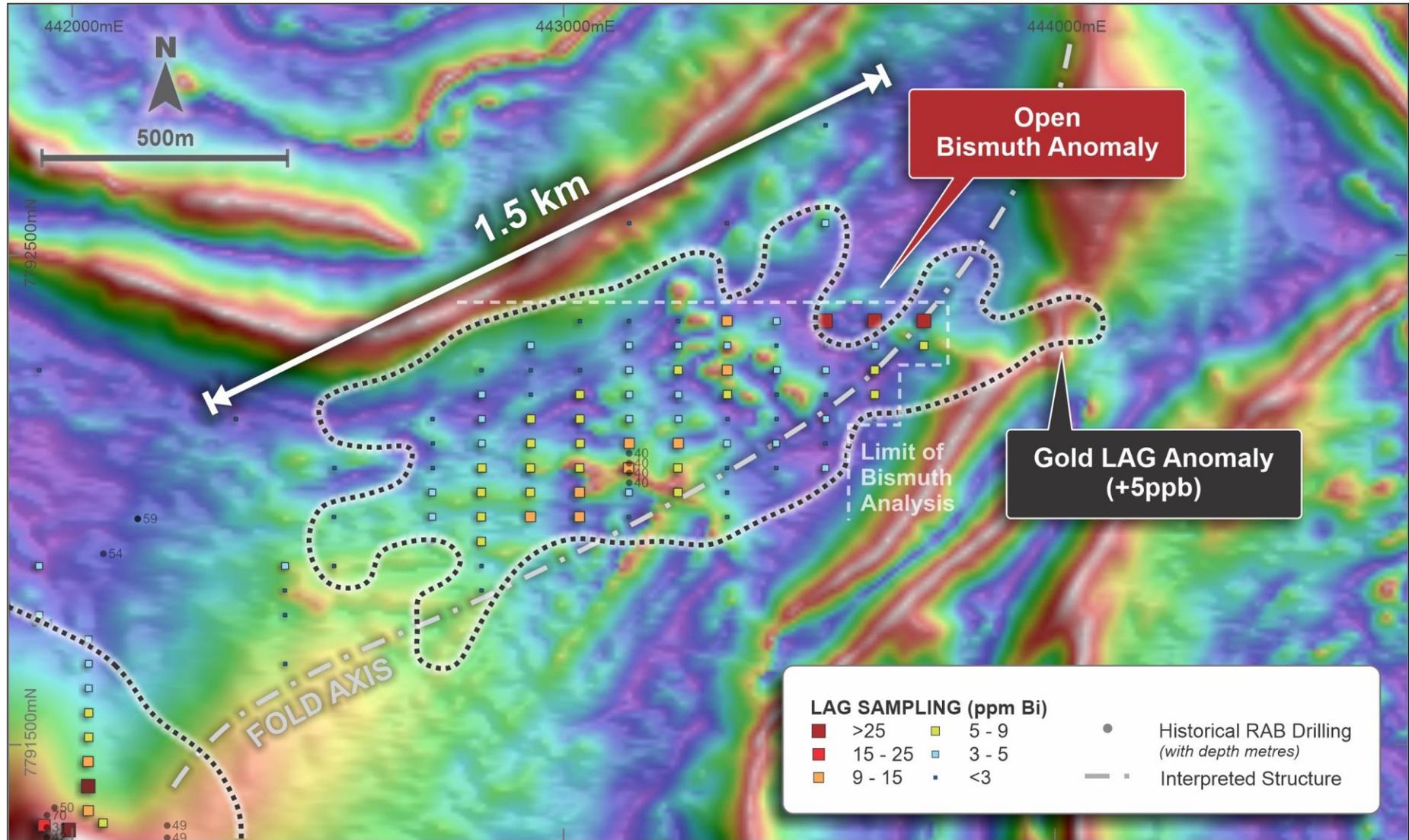
<sup>1</sup> Refer ASX Announcements dated 12 December 2022

# Sultan Prospect

- Diamond hole TSD0007 325m to 335.65m
- Mineralisation occurs within a major fault zone on the contact between sediments (top) and granite (bottom)
- Significant bedding variation above and below mineralized fault zone indicating a significant structure



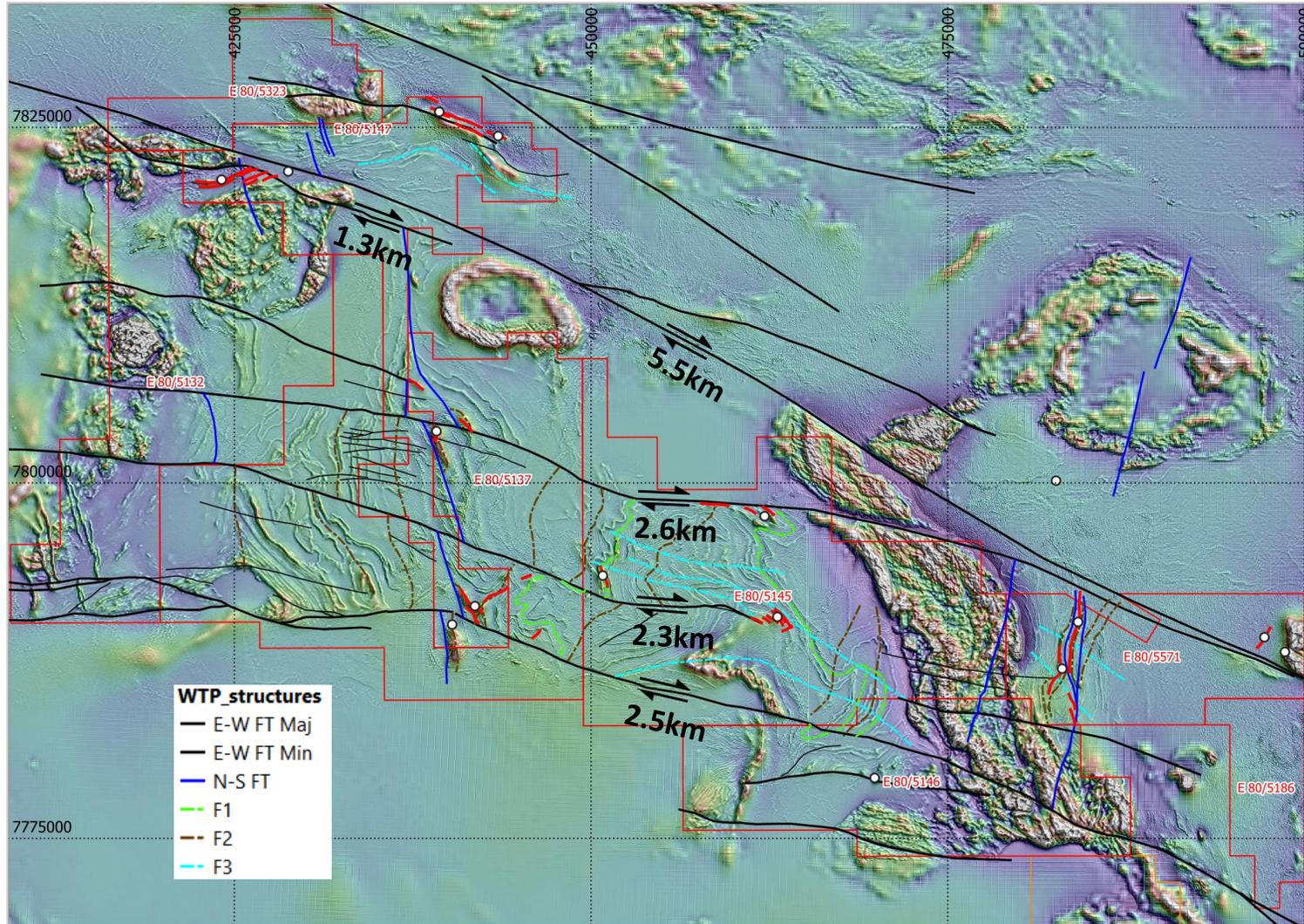
# Newkirk Camp Scale Gold Target



*Newkirk – Gold / Bismuth Geochemistry and drilling (>10m deep)*

*Refer ASX Announcements dated 16 March 2023*

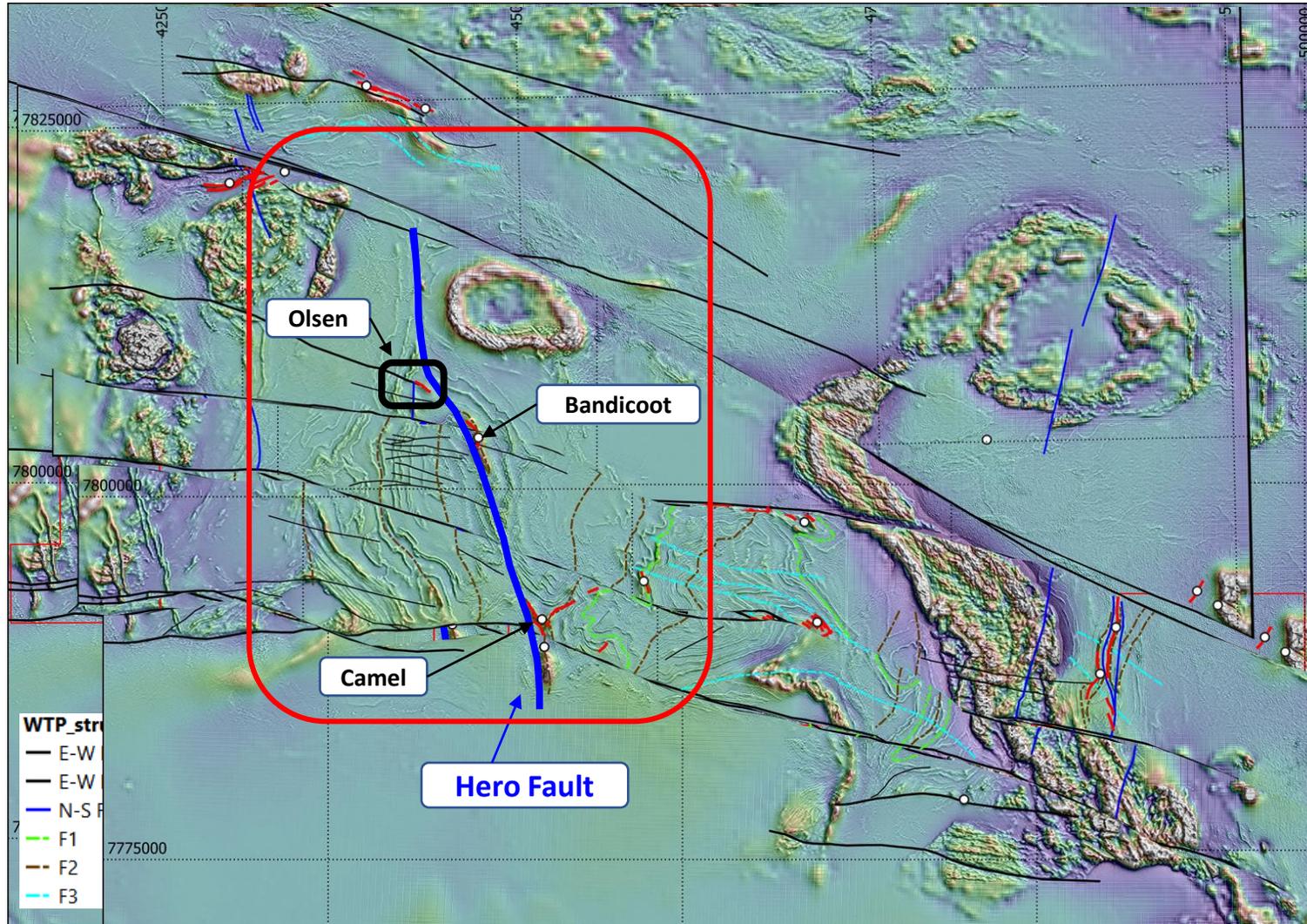
# Un-faulting Post Mineralisation Faults



## Legend

- Late Faults
- Faults
- Fold Axis
- Contact
- Gold Trends

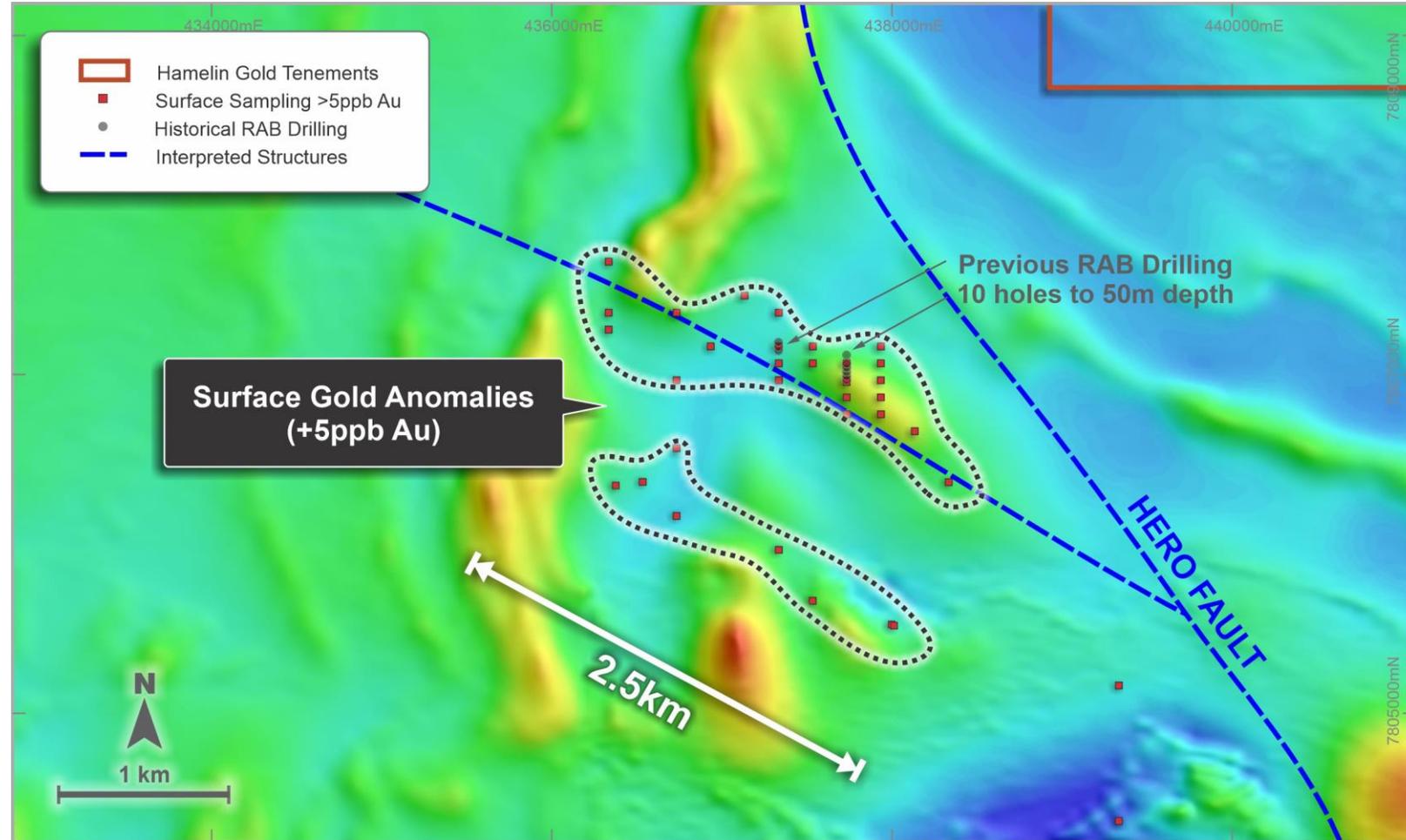
# Un-faulting Post Mineralisation Faults



West Tanami Project Un-faulting post mineralisation faults

# Olsen Structural Target

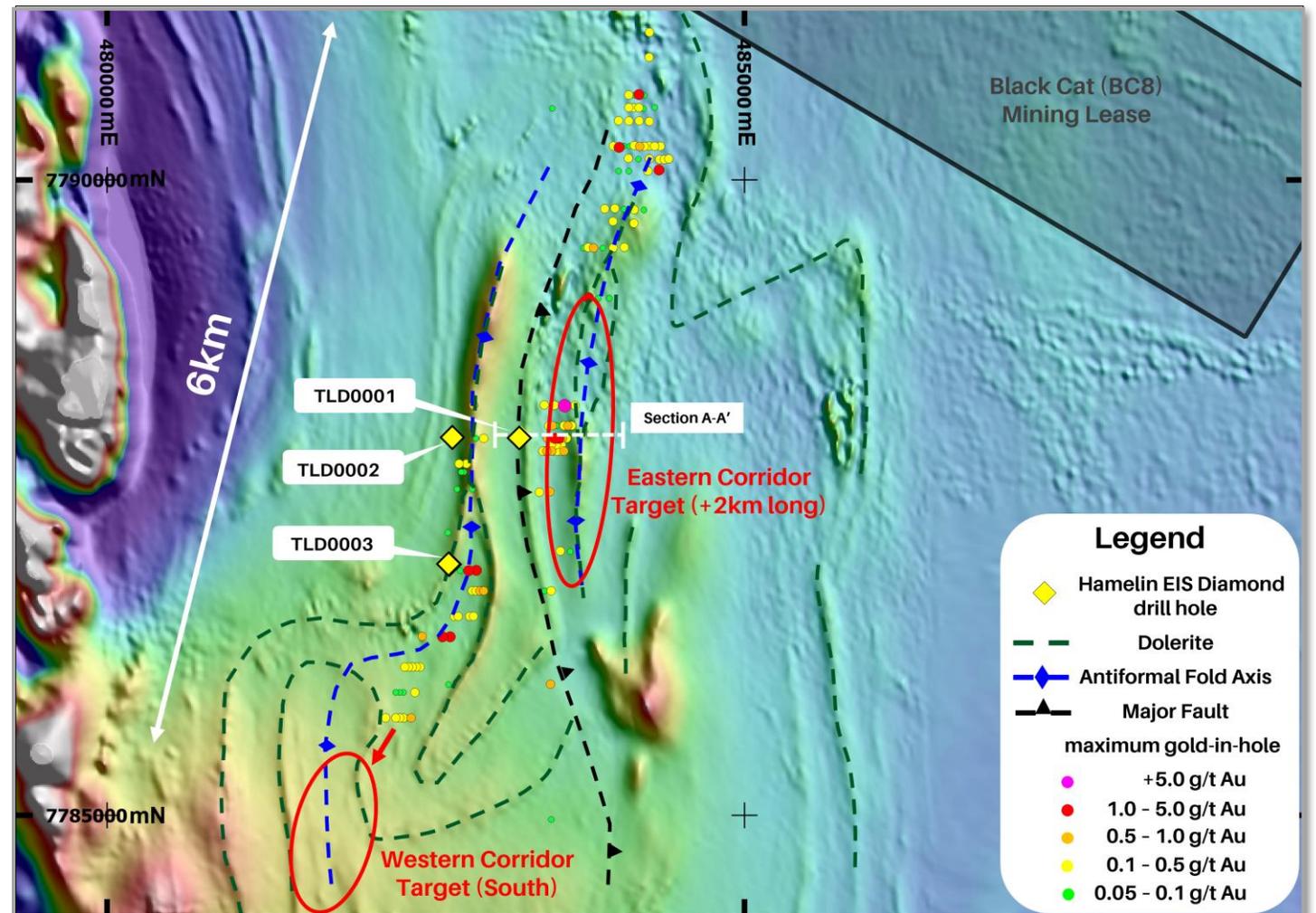
- Major flexure in regional scale structure with clear splay fault
- +2.5km long surface gold anomaly in an area of patchy cover – not analysed for bismuth
- Very limited follow up drilling with only <10m deep vacuum and ~50m deep RAB holes that included:
  - 4m @ 0.15g/t Au from 45m to EOH in BNB006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



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

# Fremlins Prospect

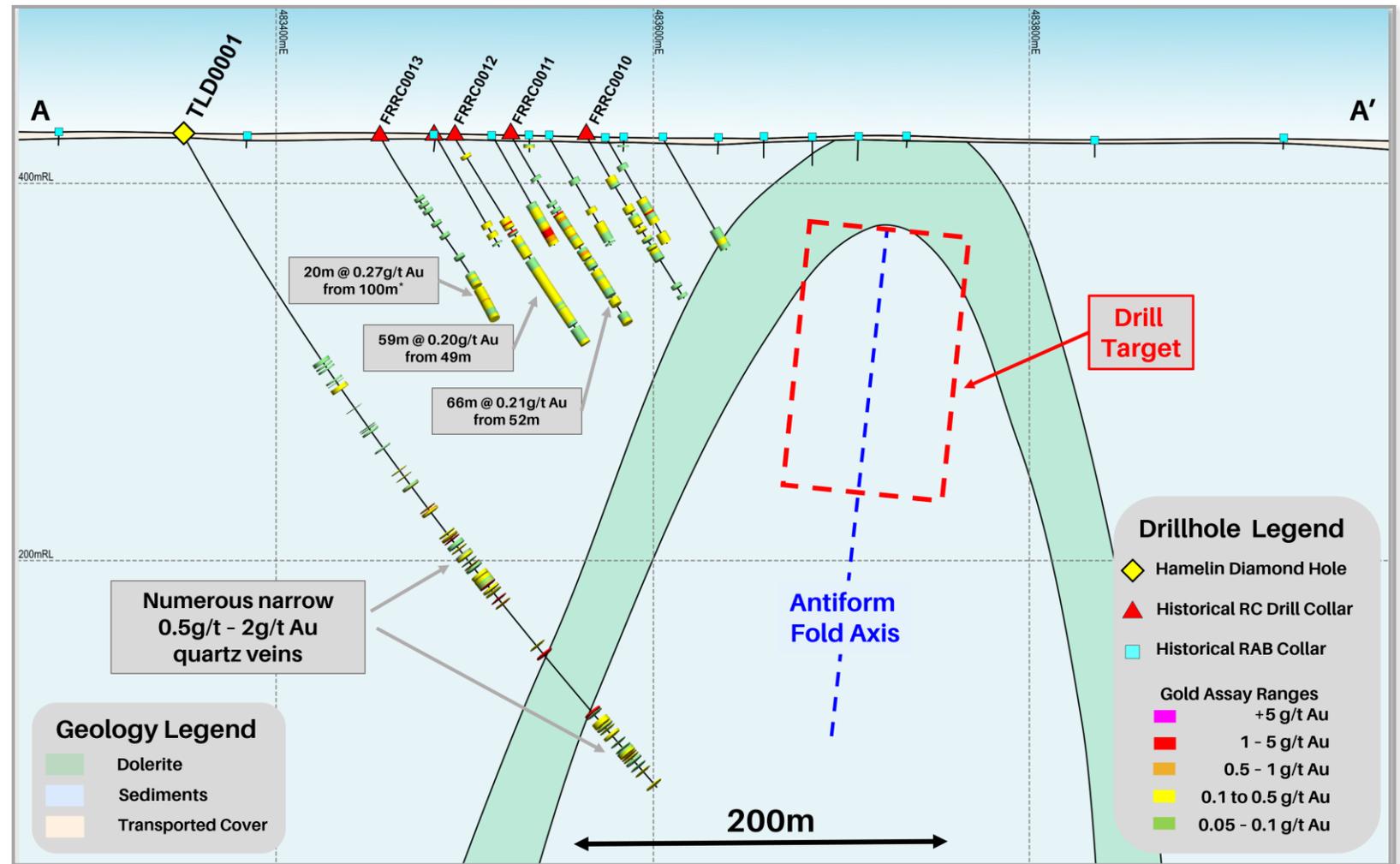
- Tightly folded mafic – sediment sequence on the margin of a gravity high – Callie deposit analogue
- Two defined regolith anomalies extend over 6km of strike (+0.1g/t Au)
- End of hole gold anomalism open along strike and at depth<sup>1</sup>
  - 22m @ 0.6g/t Au from 45m to EOH incl. 6m@ 1.71g/t Au 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



Fremlins Max Au-in-hole, geological interpretation and drillhole locations over detailed magnetics

# Fremlins Prospect - Eastern Corridor

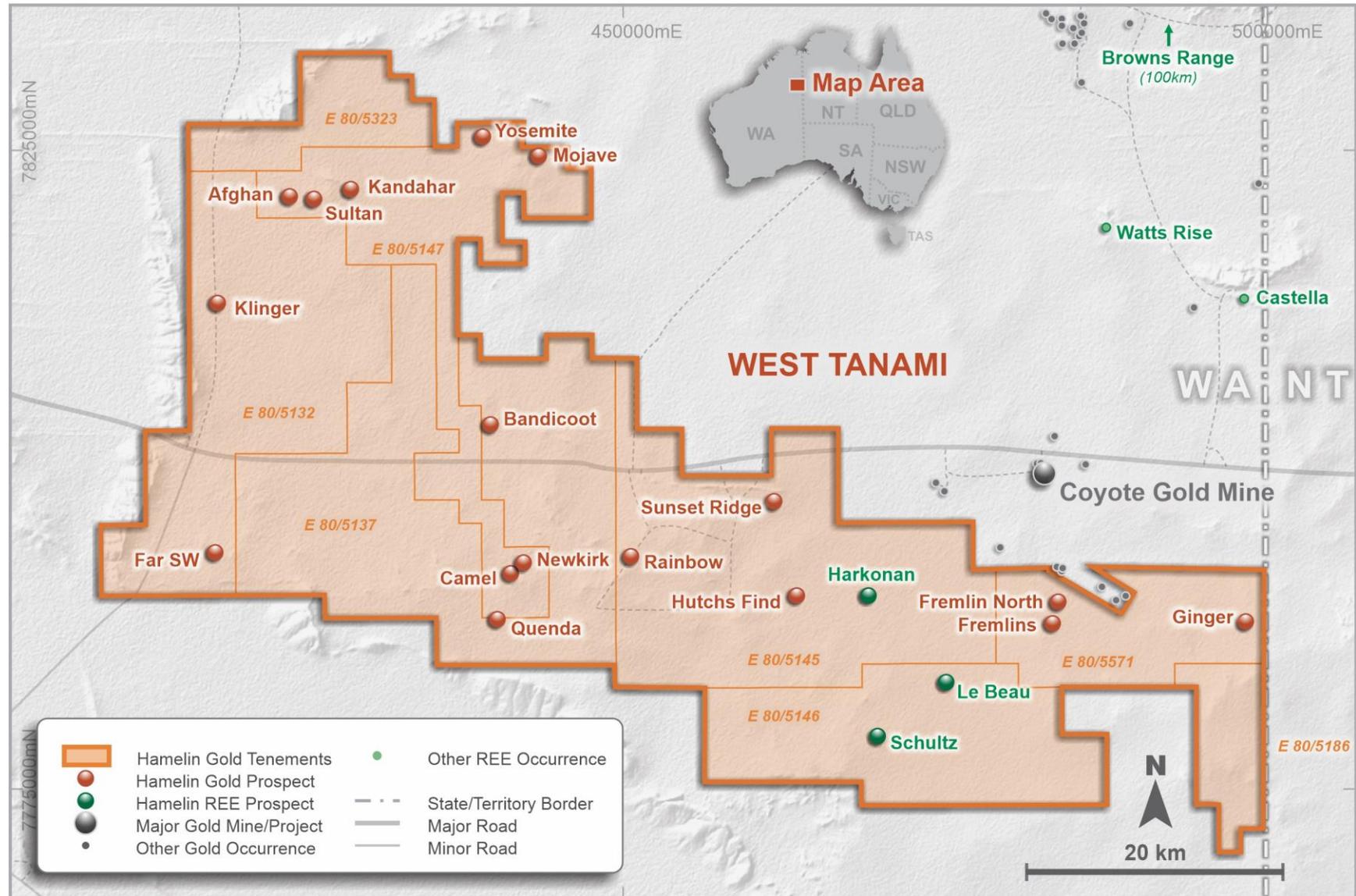
- Confirmation of gold mineralisation sitting on the western limb of a major antiform
- Main target along antiform fold axis untested
- Thick dolerite unit provides both physical and chemical trap for ore forming fluids
- Targets position untested along strike to the north and south
- RC drill testing planned for May 2023



Fremlins Prospect - Eastern Corridor Section 7787950mN (A-A')<sup>1</sup>

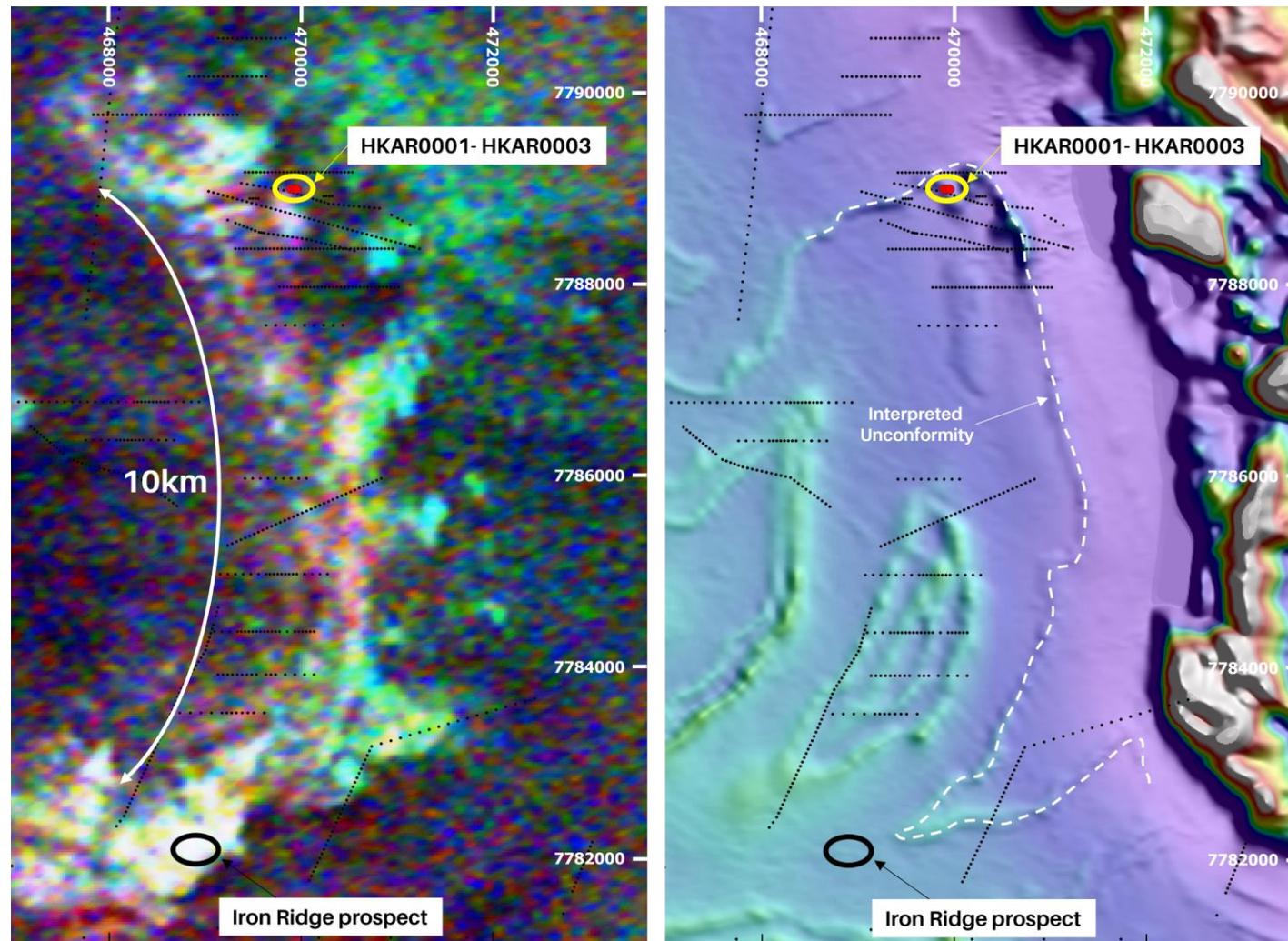


# Investigating the REE Potential



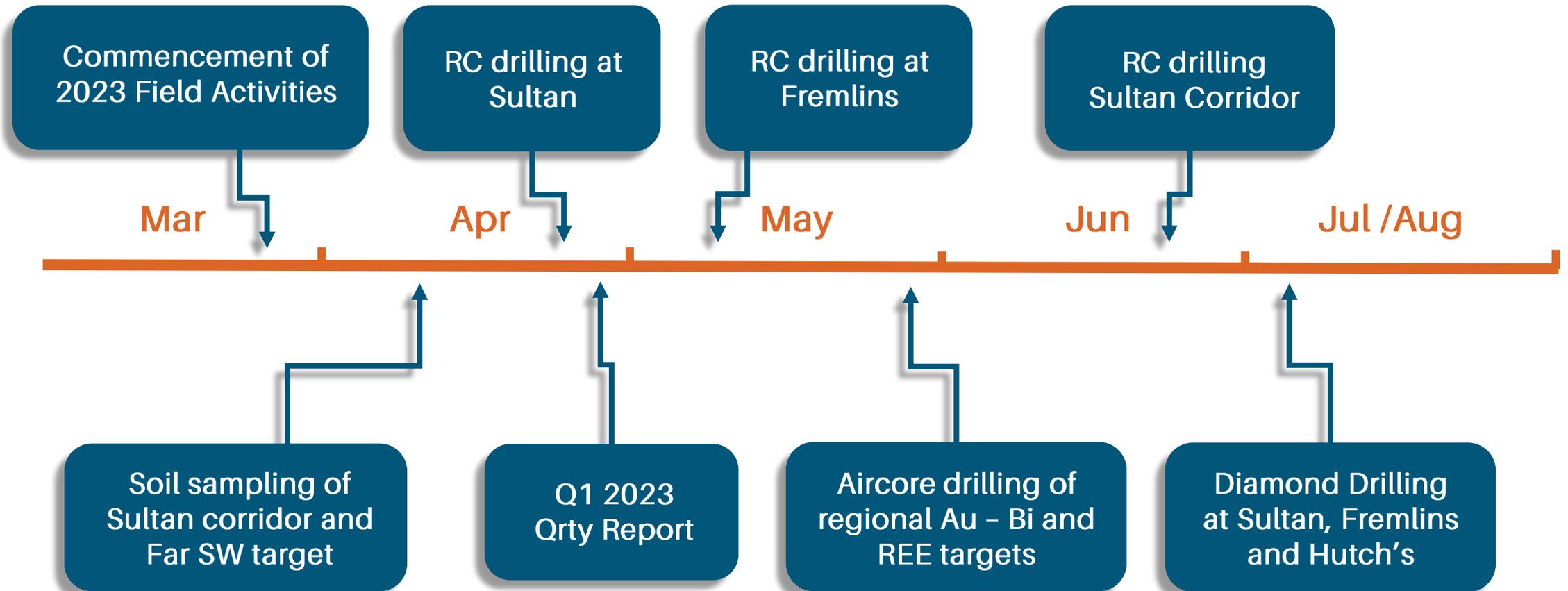
# Harkonan Prospect

- Distinct, 10km long radiometric anomaly along interpreted unconformity
- Only three holes across entire target area has any REE analysis but highlight strong cerium, lanthanum and yttrium anomalism
- Rock chip sampling at Iron Ridge identified anomalism of 0.1 - 0.5% TREO
- Surface sampling and aircore program proposed for first half of 2023



*Harkonan prospect drillhole location, radiometrics and detailed magnetics*

# Strong Newsflow - Next 6 Months



# Priorities for 2023

- Test for extensions of high grade mineralisation discovered at **Sultan**
  - ✓ Potential resource definition drilling program in 2023
- Drill test new priority gold targets at **Fremlins**
- Aircore drilling of **camp scale Au-Bi anomalies**
- Expand use of novel **surface geochemical** program to assess high priority targets
  - ✓ Aggressive prospect evaluation program
- Assess REE potential of the Harkonan prospect
  - ✓ Surface geochemistry and aircore drilling planned for first half 2023



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