

# RIU Sydney Resources Round-up

9-11 May 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 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
- 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)*

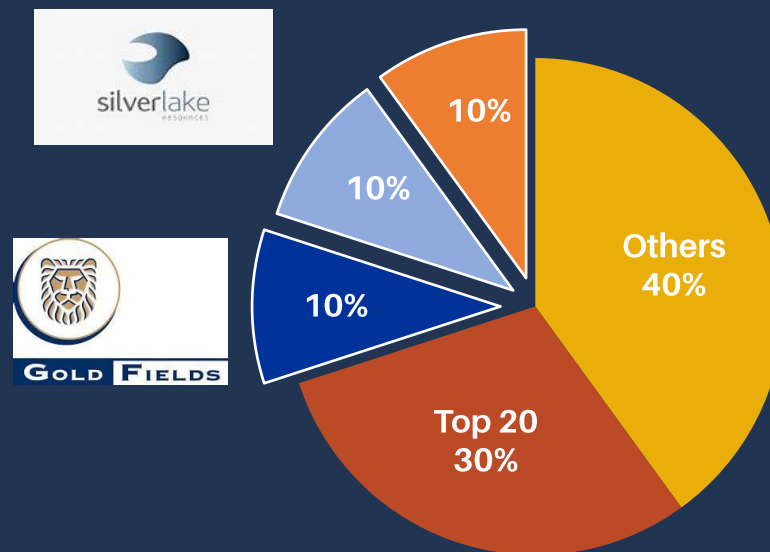
- Geologist with over 25 years industry experience
- Former Exploration Manager of Gold Road Resources and Pioneer Resources

### CAPITAL STRUCTURE\*

Shares on Issue	110M
Director, ESOP and broker options	9.35M
Market capitalisation (@\$0.096)	\$10.6m
Cash (31/03/2023)	\$4.0M
Enterprise value	\$6.6M

\* Figures exclude \$3.75M Placement and \$1M SPP (in progress)  
(see ASX announcement 5 May 2023)

### Board / Mgmt

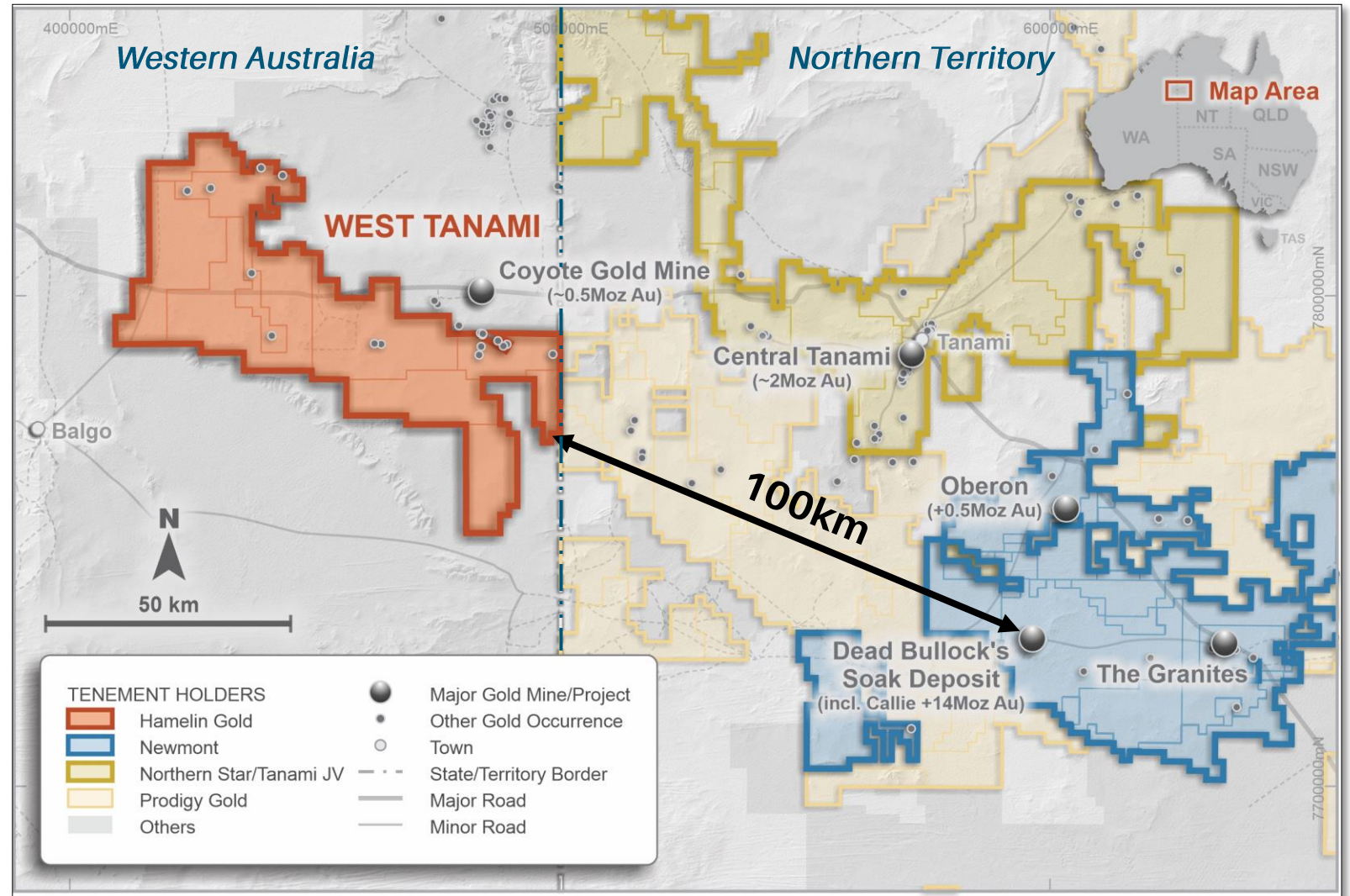


# West Tanami: A Belt Scale Project in a Tier 1 Goldfield

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**

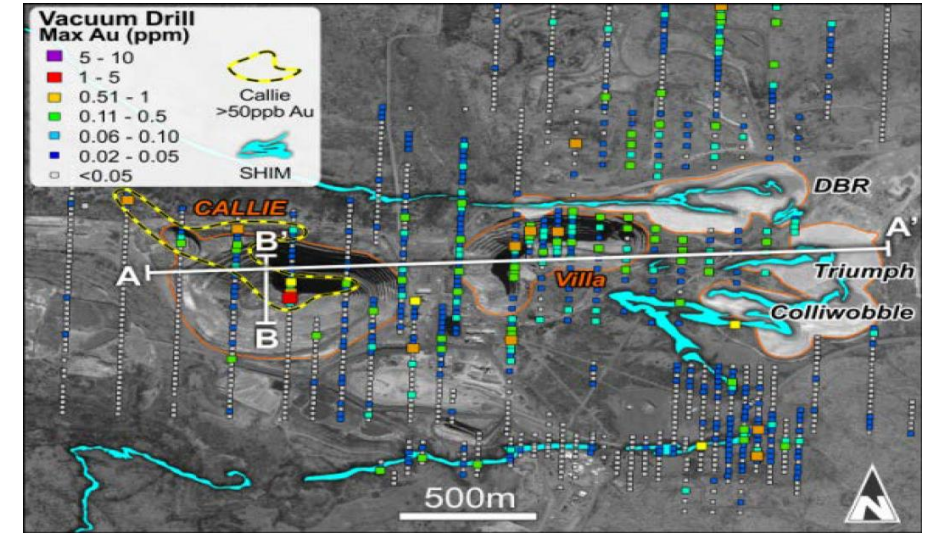




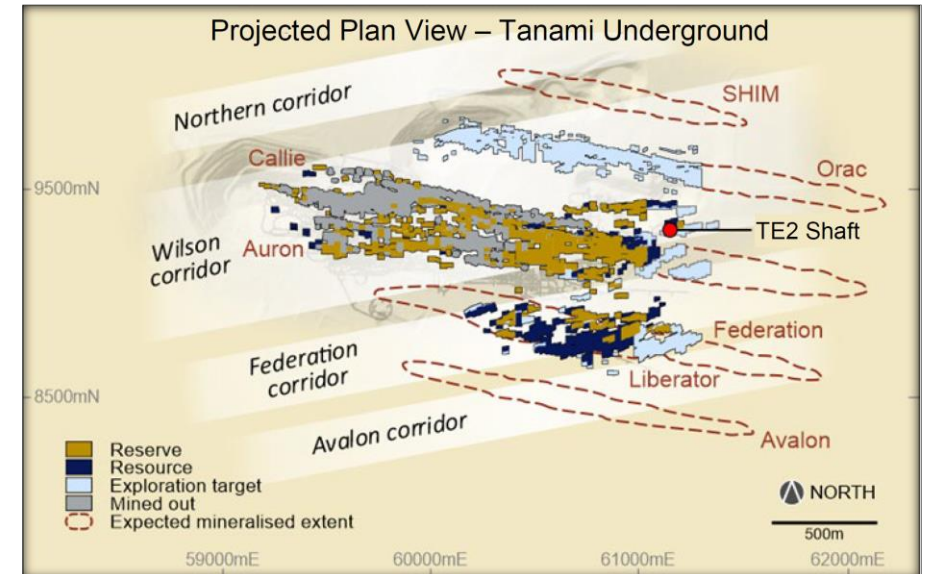
# Newmont's DBS Gold Complex (+14Moz)

## 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 mine life projected 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



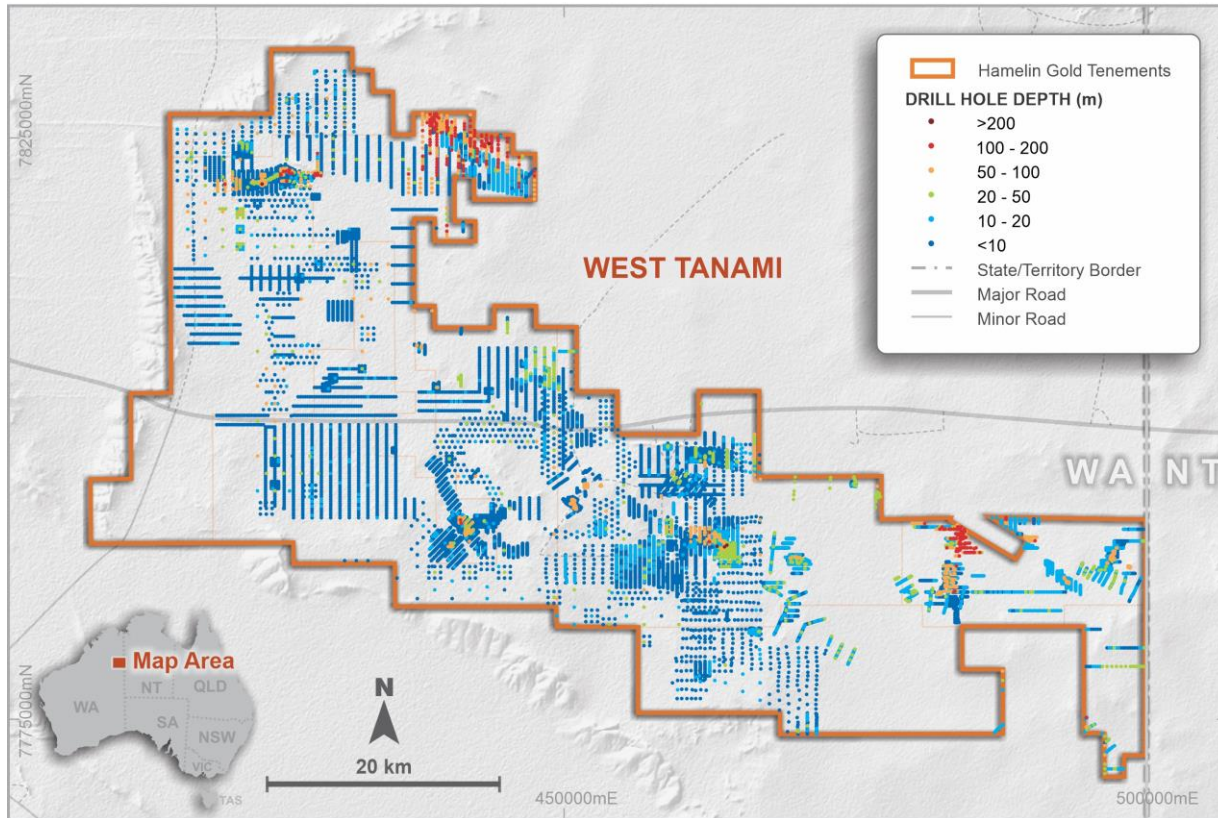
2.5km by 1km gold anomaly (100ppb Au) in shallow drilling



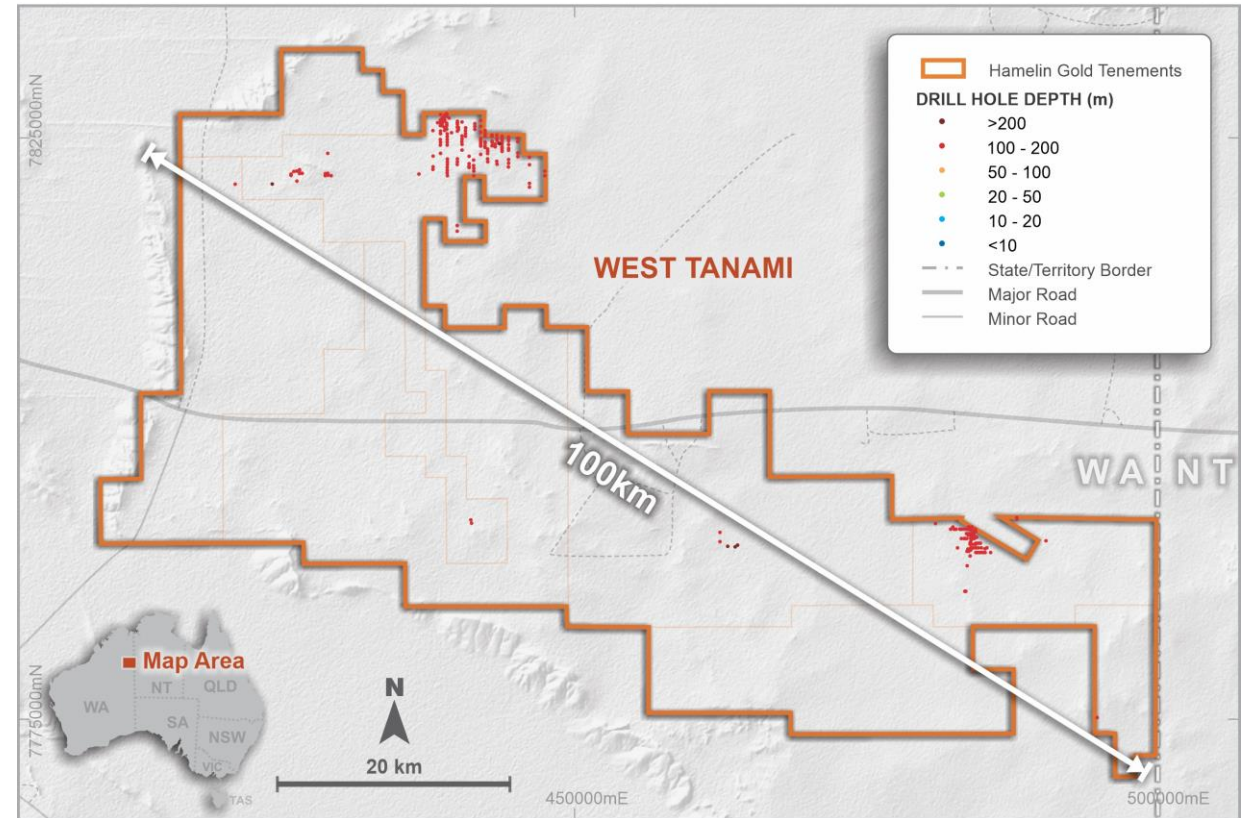
Plan view of Tanami Underground Deposits

# 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



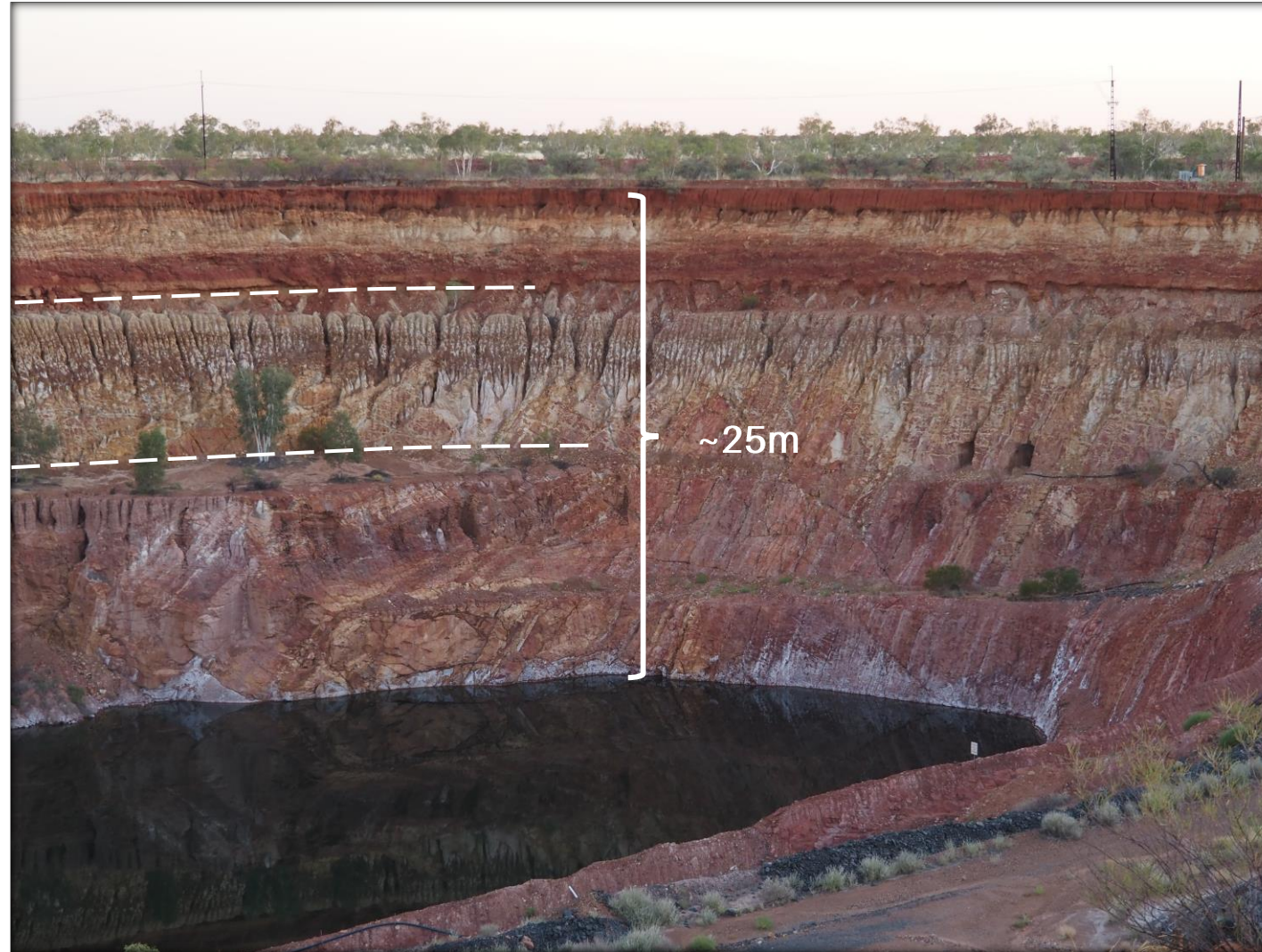
# Ineffective Historical Drilling

## Understanding Gold the Regolith

Cover  
(very weak gold anomalism)

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

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

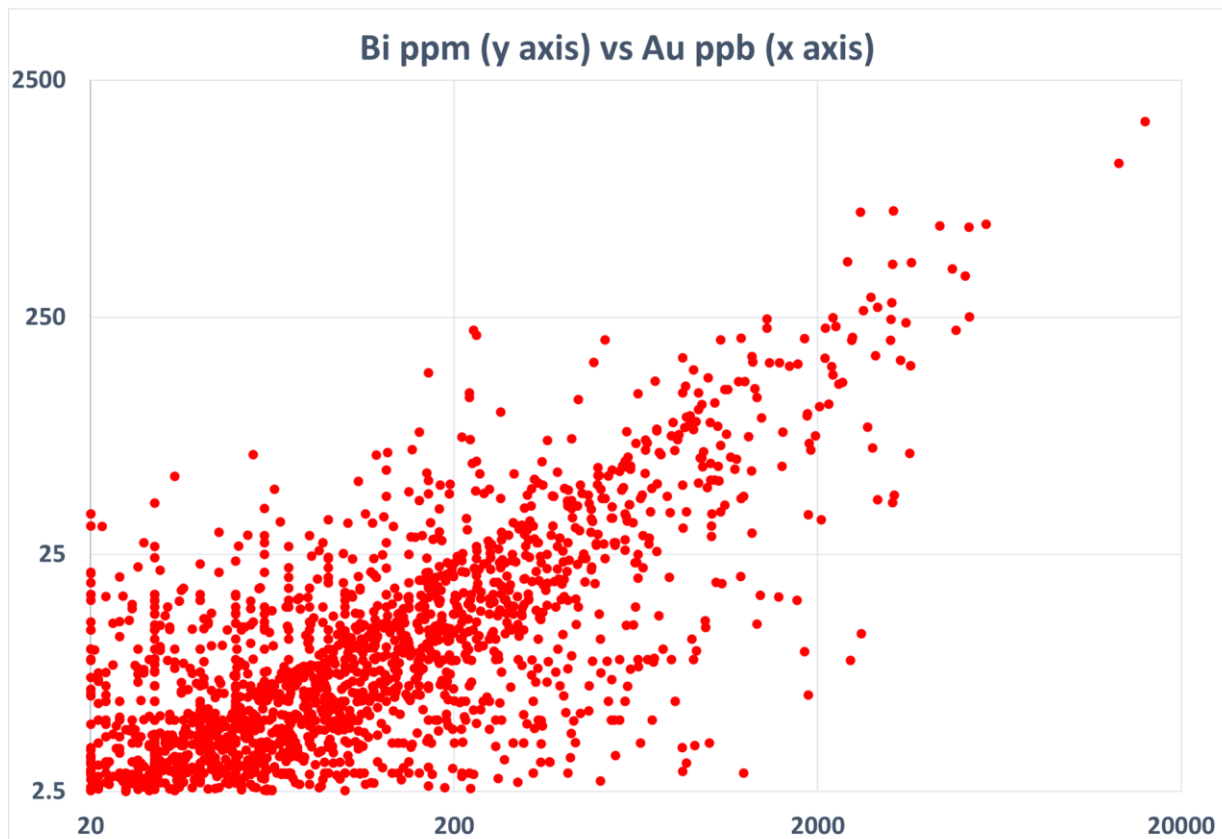


Historical Data

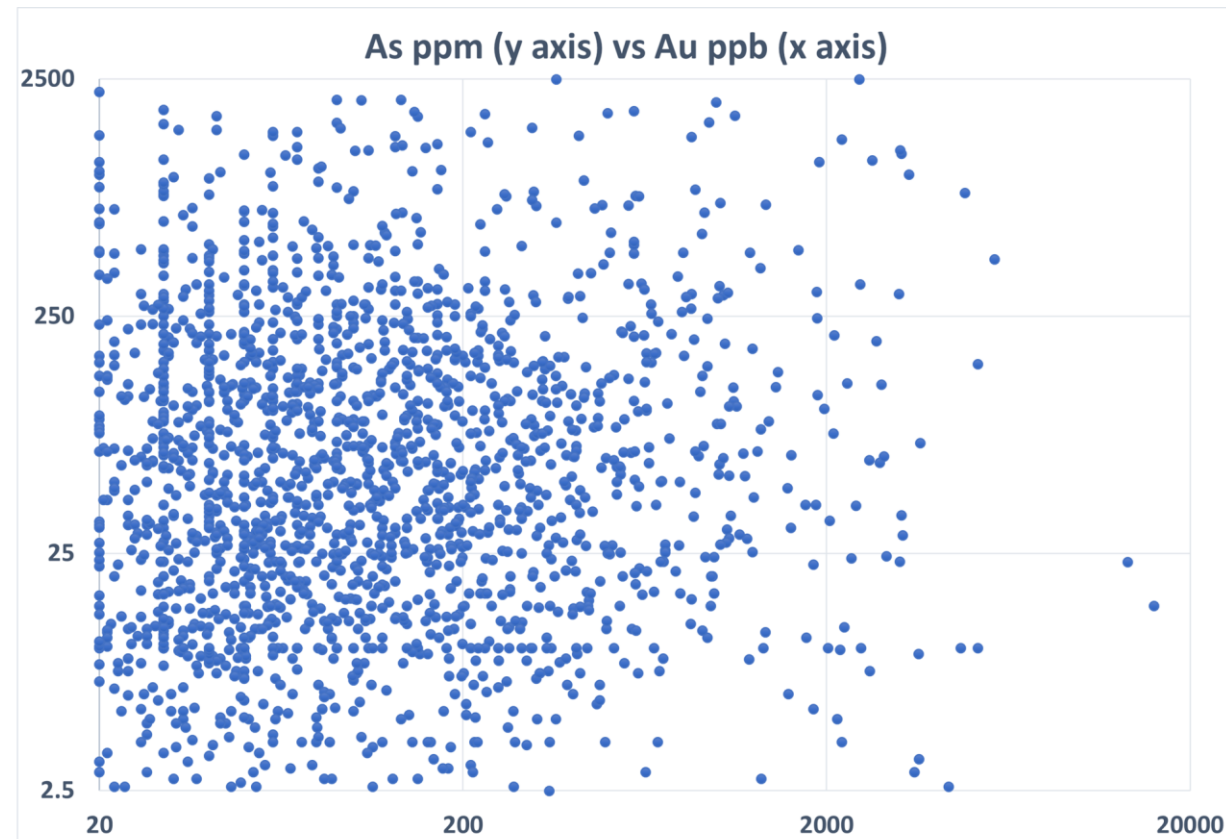
Surface  
Geochemistry  
&  
Shallow  
Drilling



# Geochemistry : It's Bismuth not Arsenic



*Very high correlation between bismuth and gold*



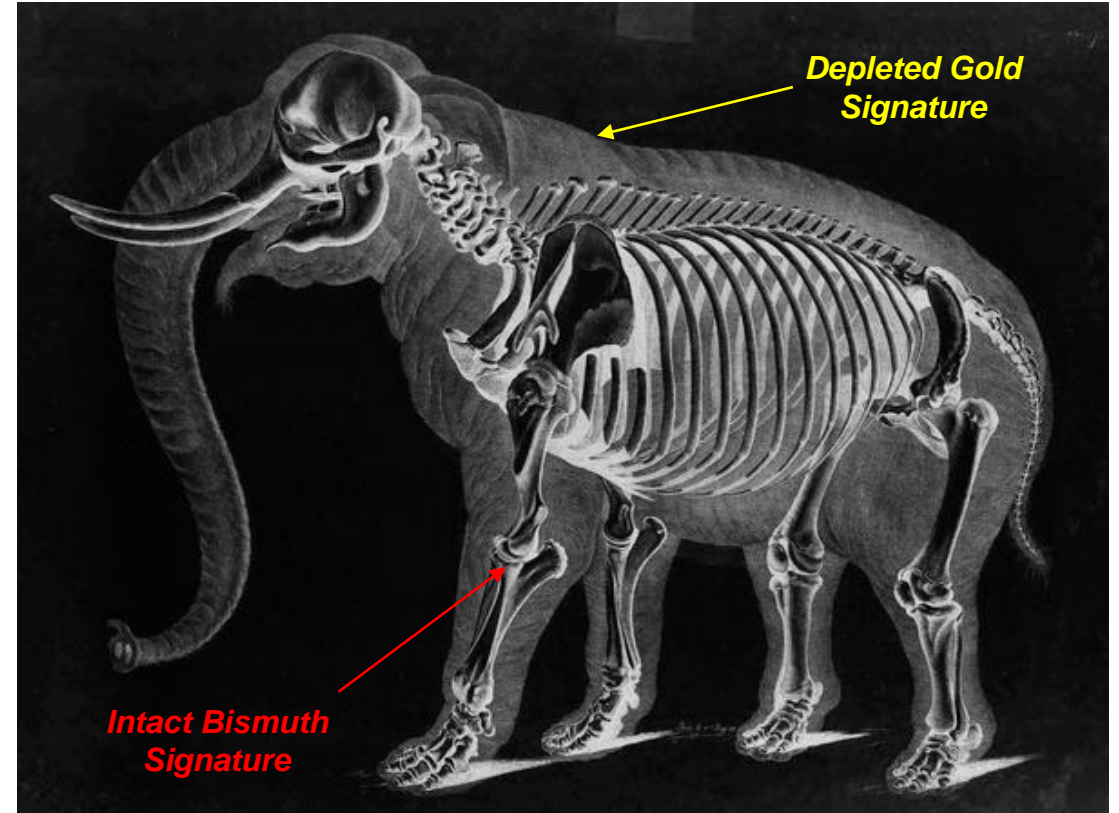
*Very low correlation between arsenic and gold*

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

# Searching for an Elephant in the Tanami



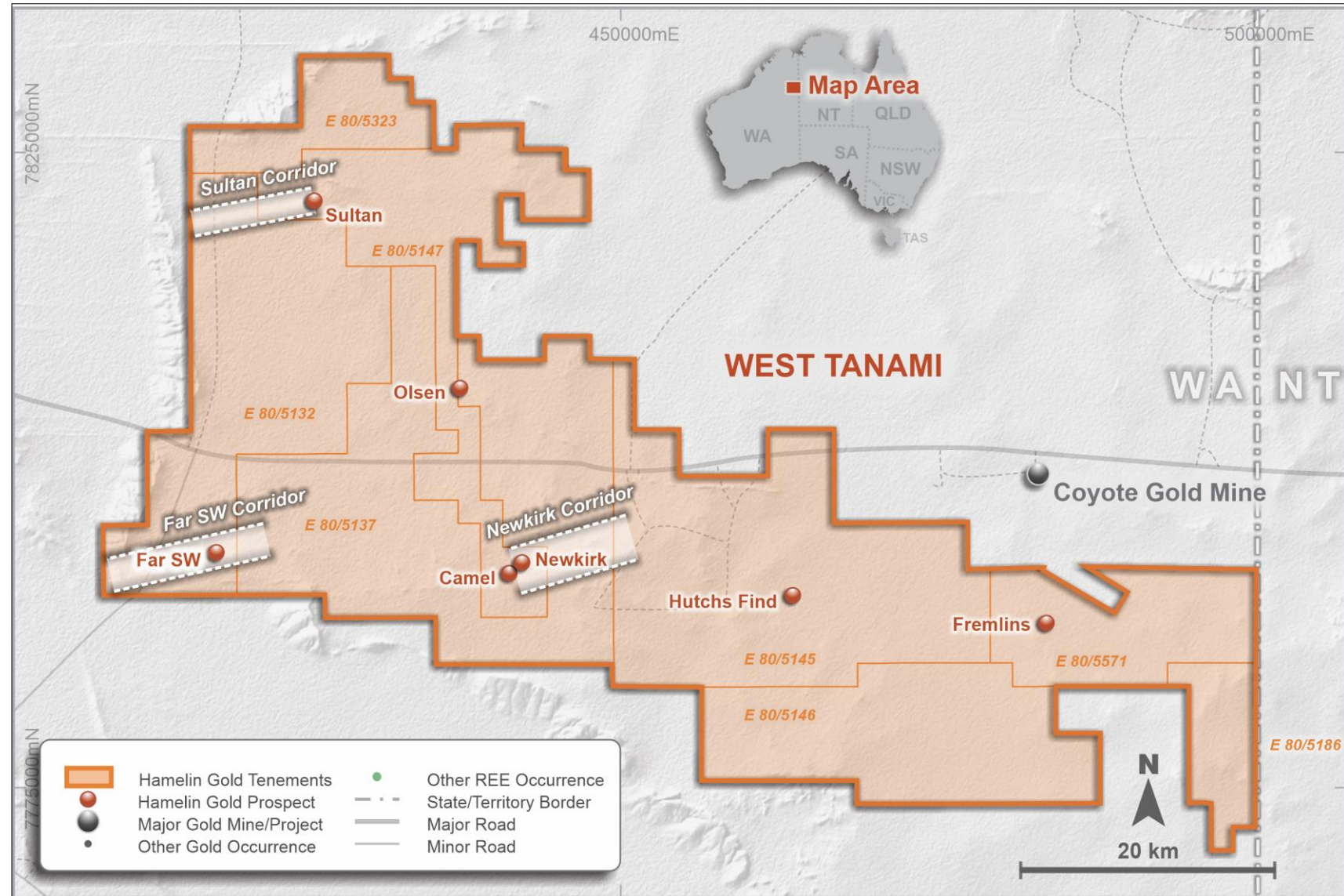
*A multi-million ounce Gold Deposit*



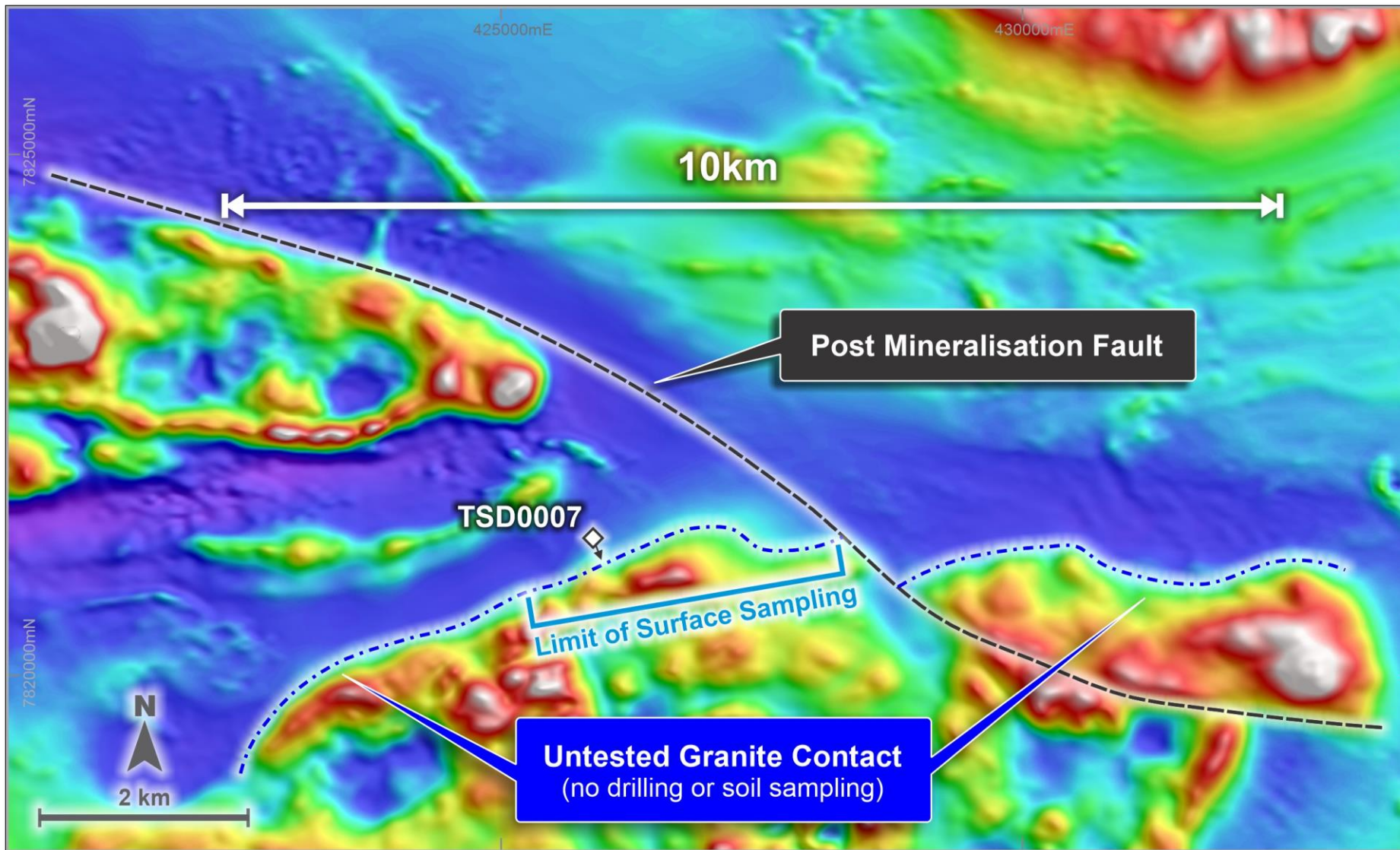
*A weathered and leached multi-million ounce Gold Deposit*



# New Camp Scale Gold Targets

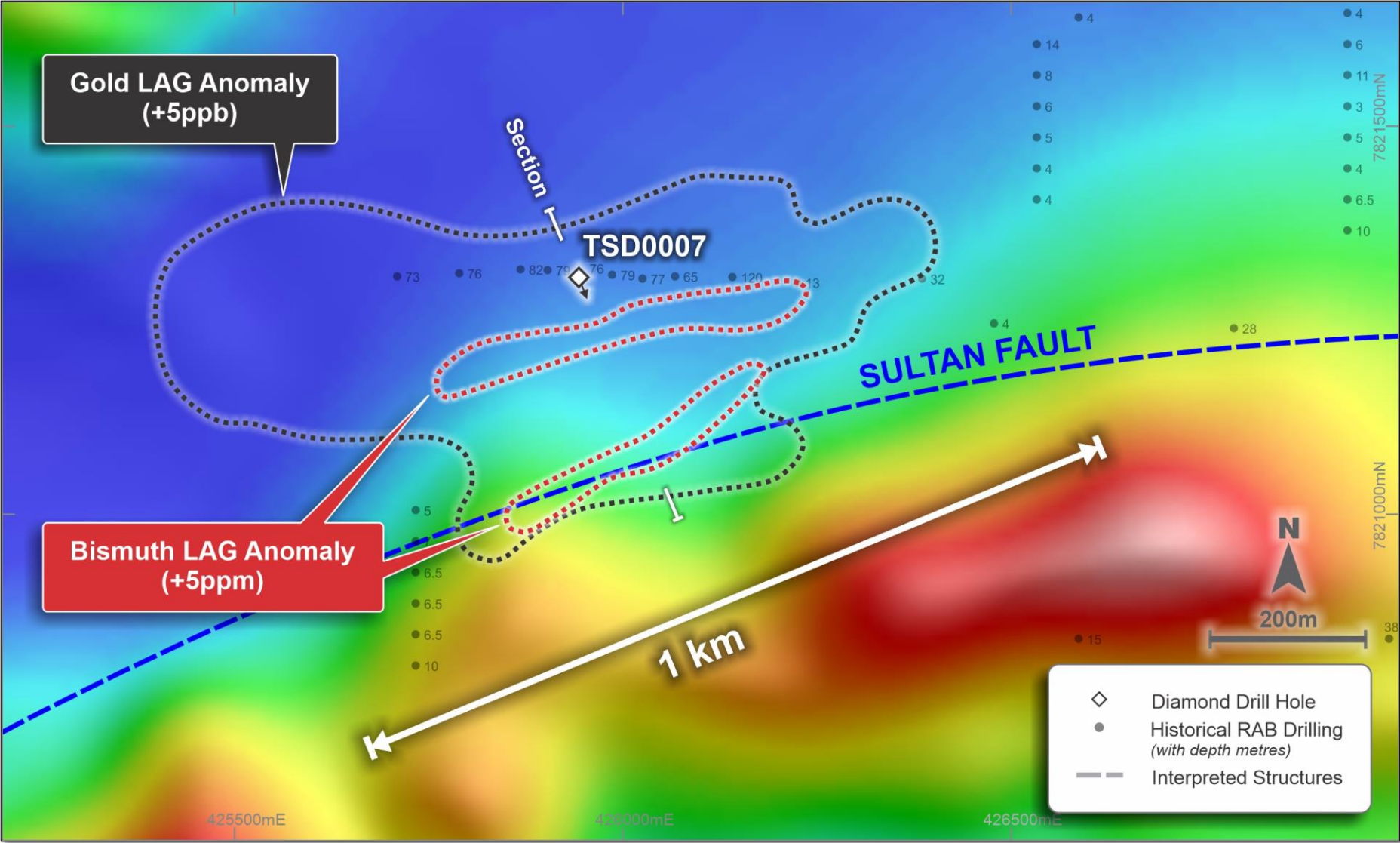


# Sultan Gold Corridor



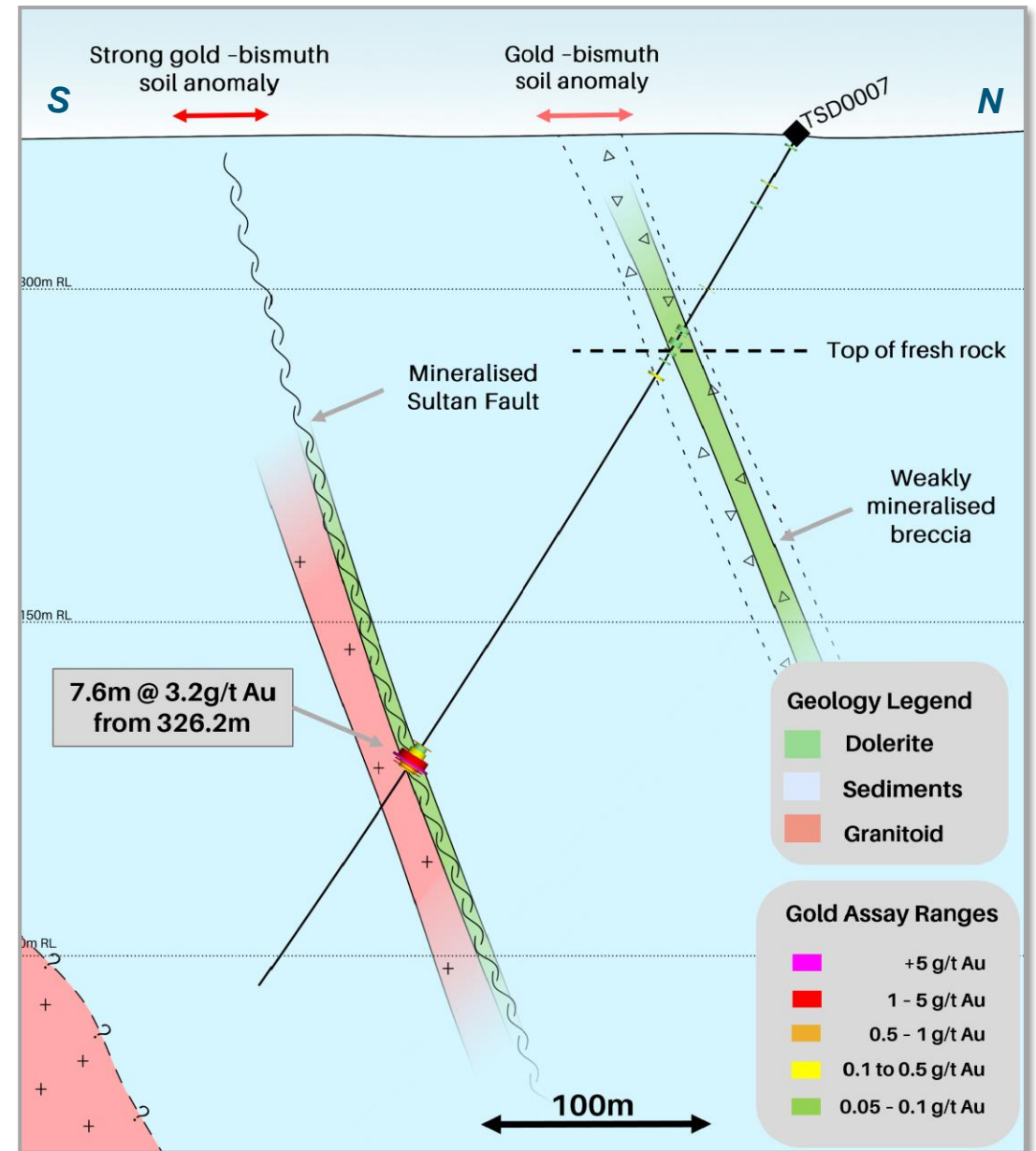


# Sultan Prospect - TSD0007



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

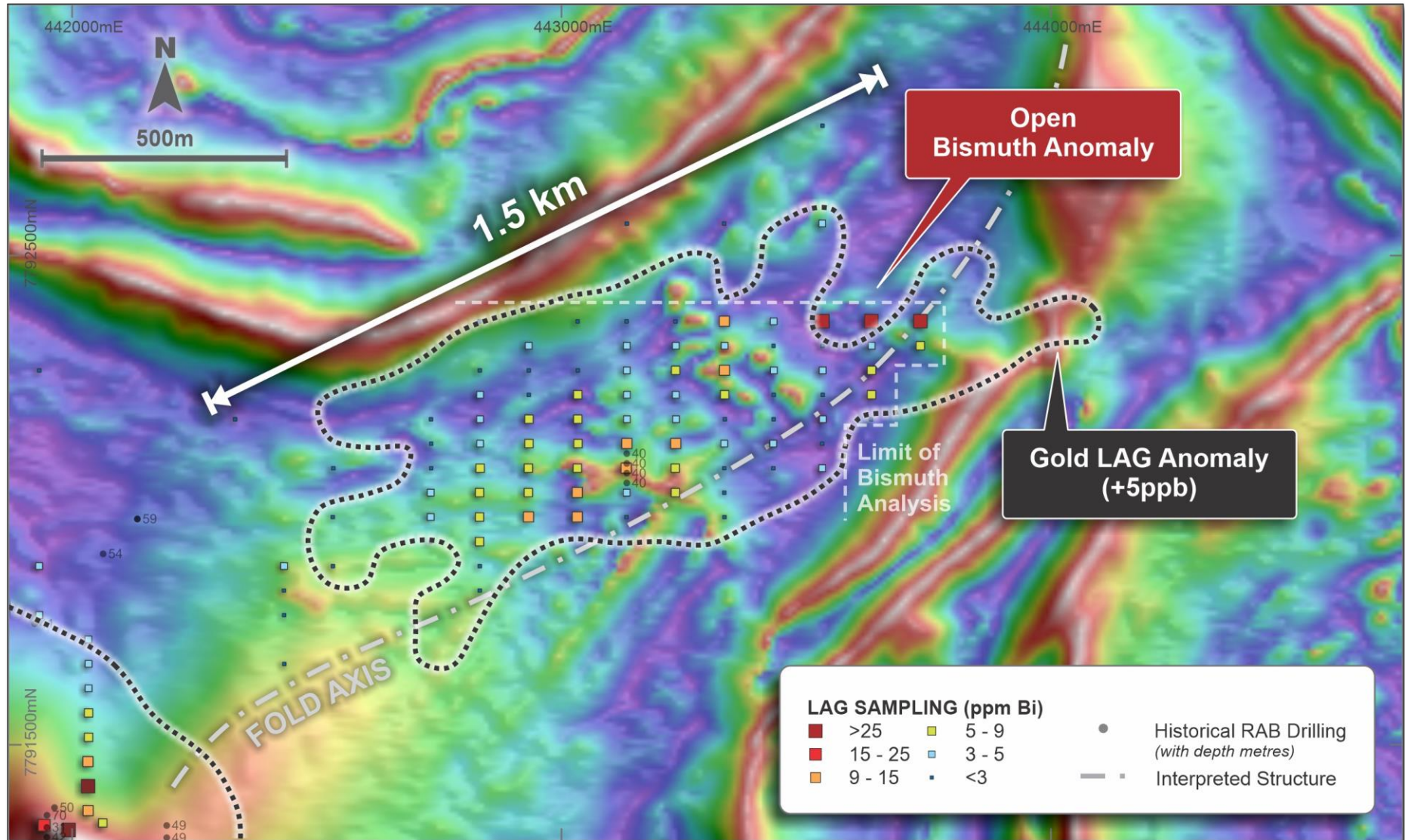


**Sultan Prospect - Interpreted Cross Section looking to 240°**

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

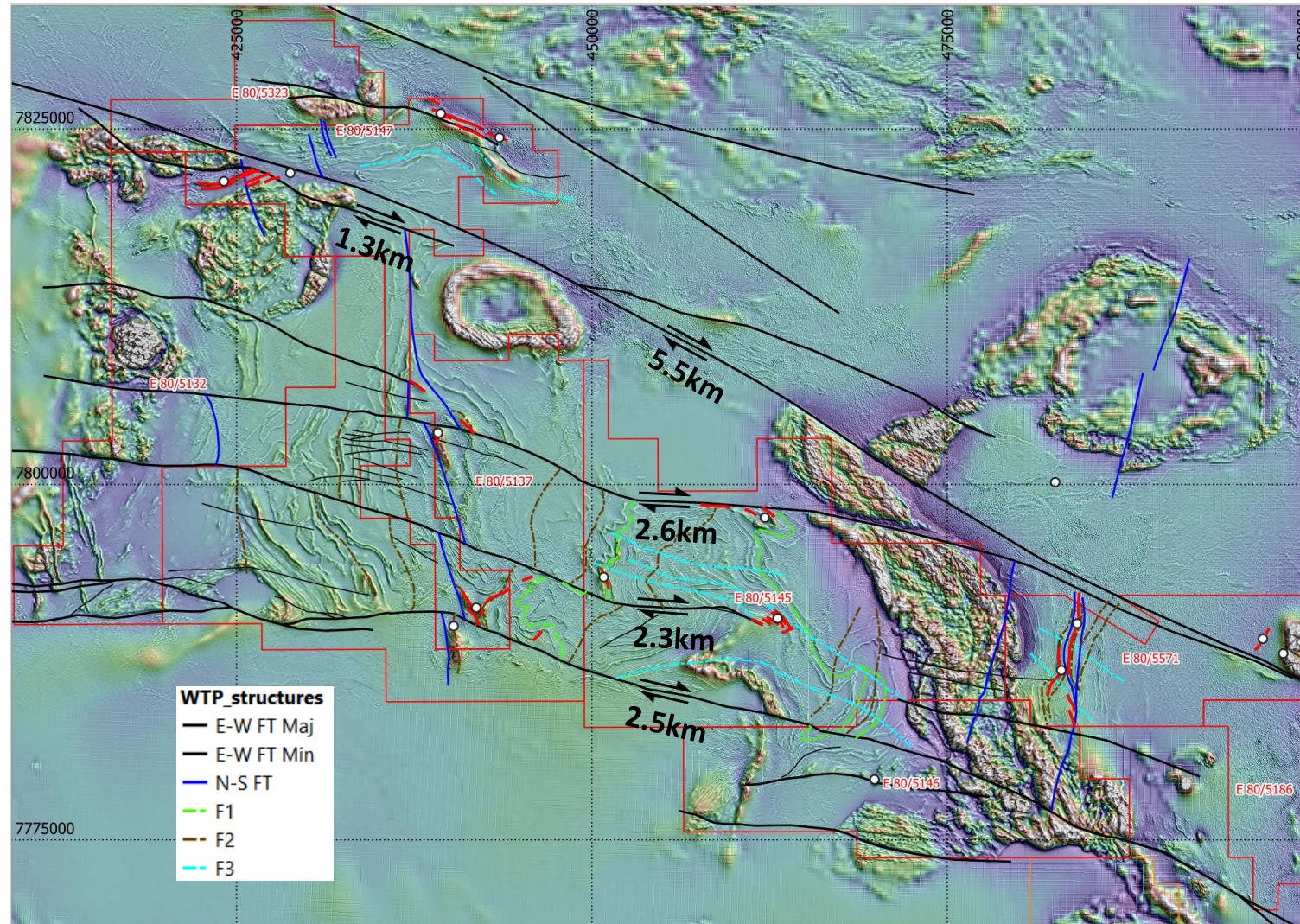


# Newkirk Camp Scale Gold Target





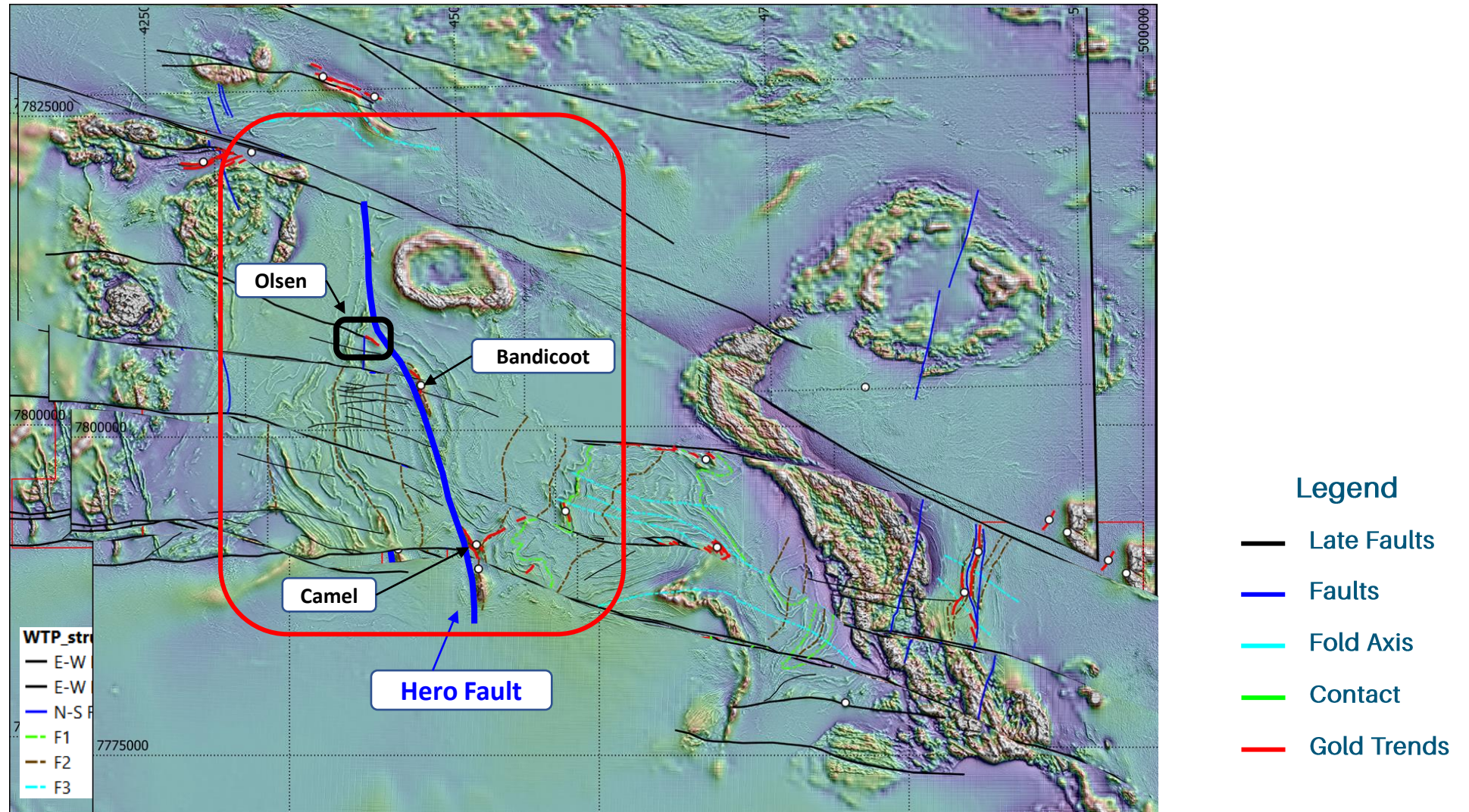
# Un-faulting Post Mineralisation Faults



West Tanami Project Un-faulting post mineralisation faults



# Un-faulting Post Mineralisation Faults

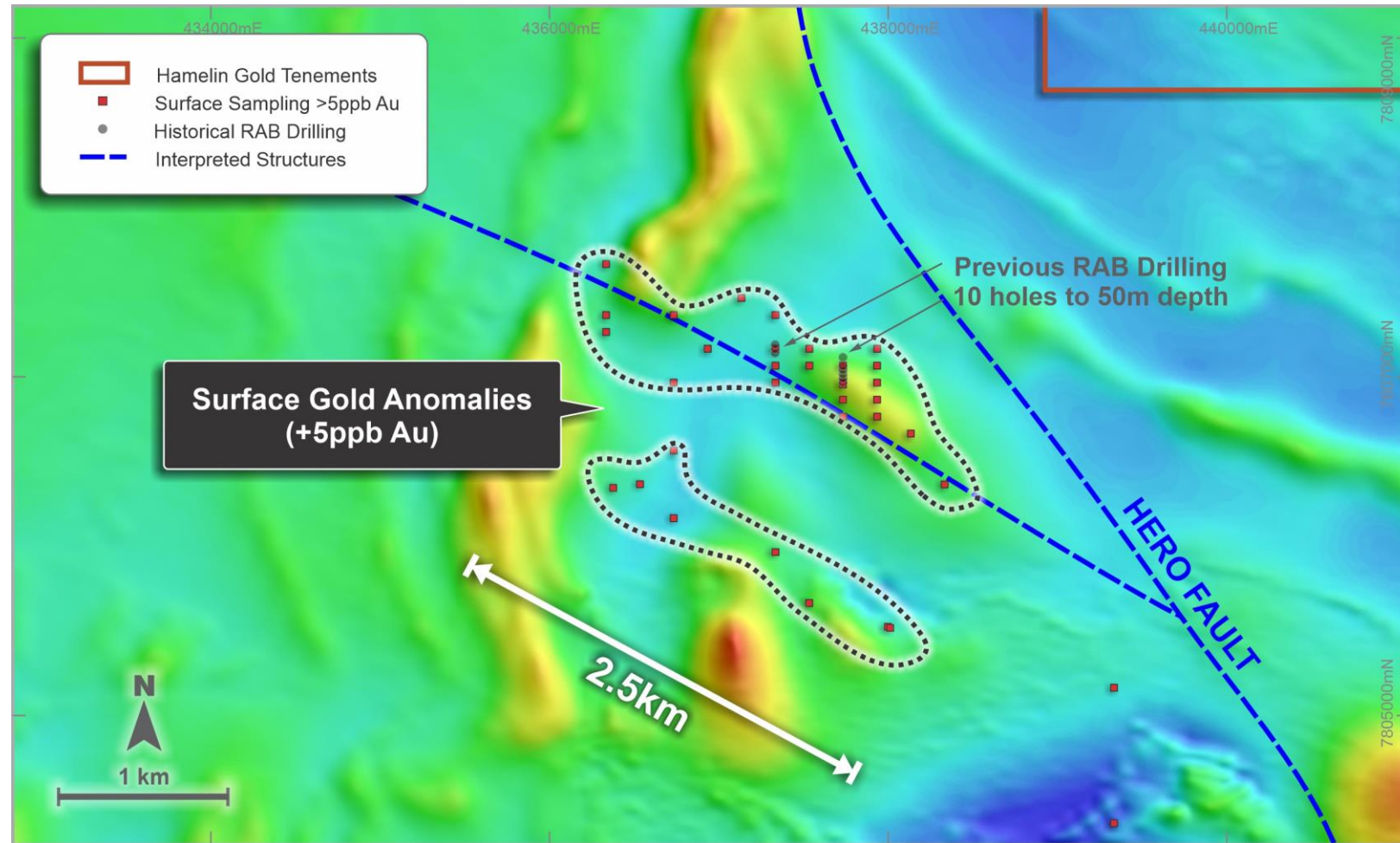


West Tanami Project Un-faulting post mineralisation faults



# 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

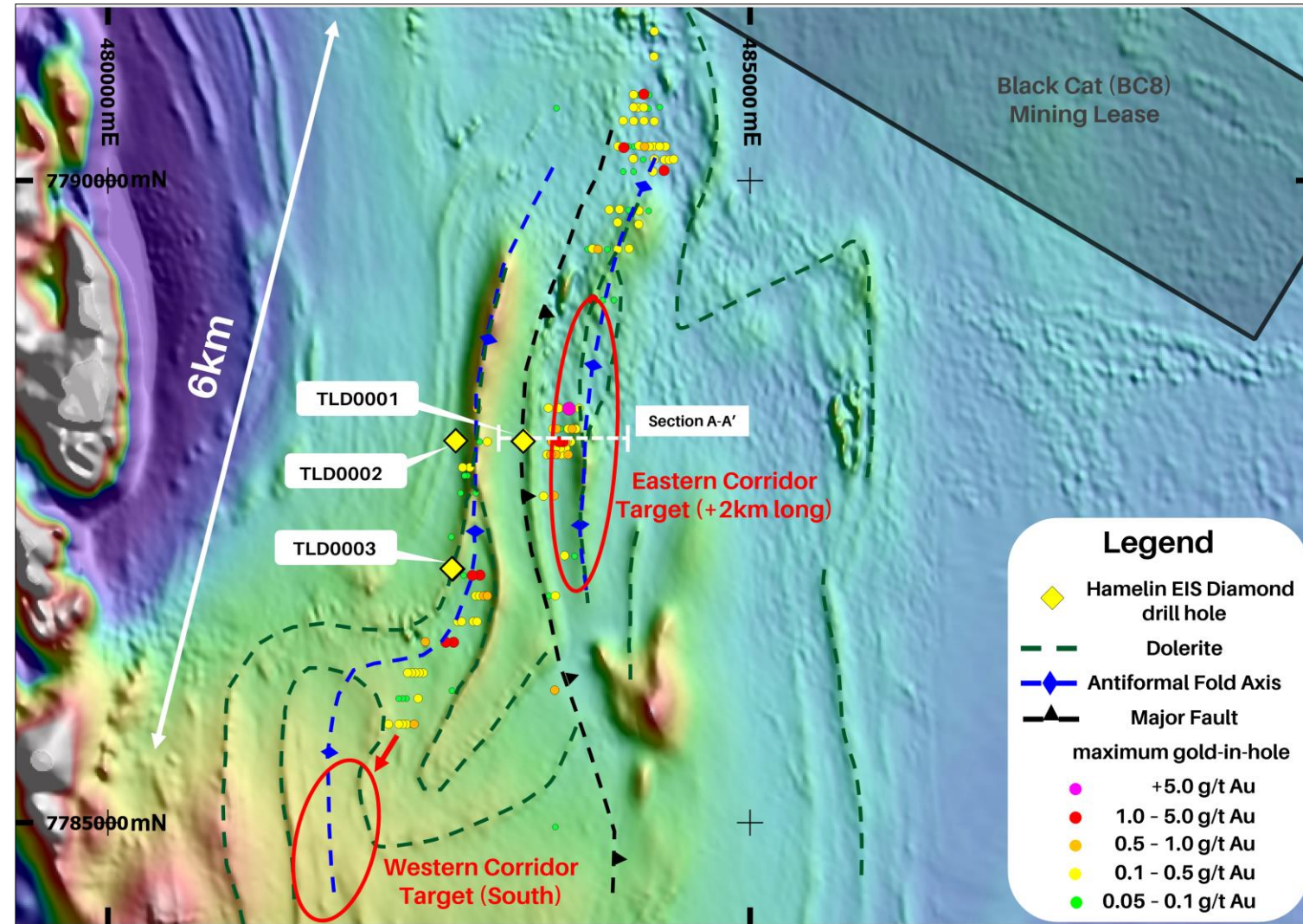


*Olsen Prospect – Geochemical gold anomaly, structural interp and previous drilling (> 10m deep) on magnetics*



# Fremlins prospect

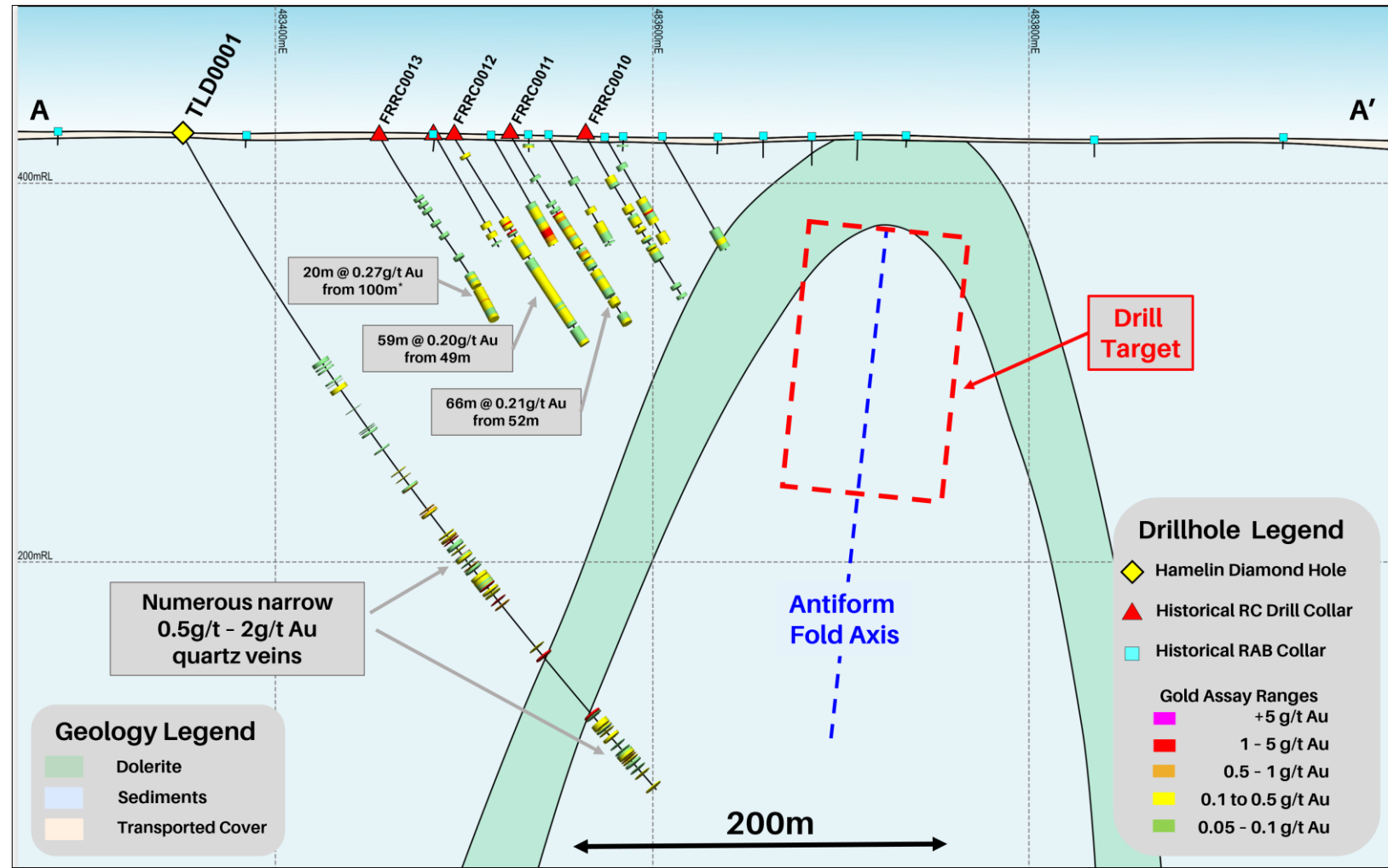
- Tightly folded mafic – sediment sequence on the margin of a gravity high – Callie deposit analogue
- Two defined regolith anomalies extend over 6km of strike (+0.1g/t Au)
- End of hole gold anomalism open along strike and at depth<sup>1</sup>
  - 22m @ 0.6g/t Au from 45m to EOH incl. 6m @ 1.71g/t Au 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
- 1,200m EIS co-funded diamond drilling program generates priority drill targets



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

# Fremlins prospect - Western 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

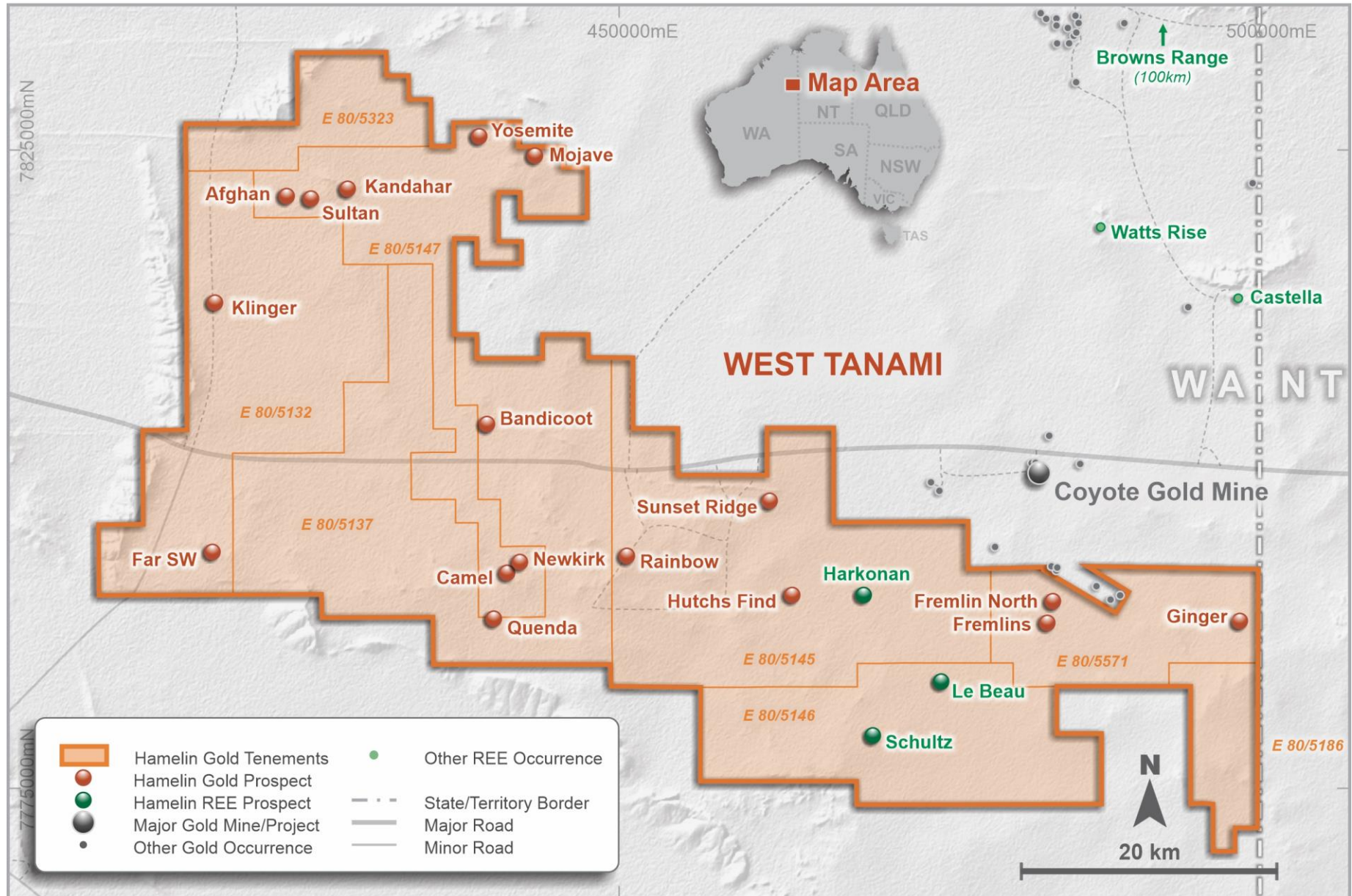


Fremlins Prospect - Eastern Corridor Section 7787950mN (A-A')<sup>1</sup>

<sup>1</sup> Refer results tabled in Hamelin Gold IPO Prospectus dated 17 September 2021



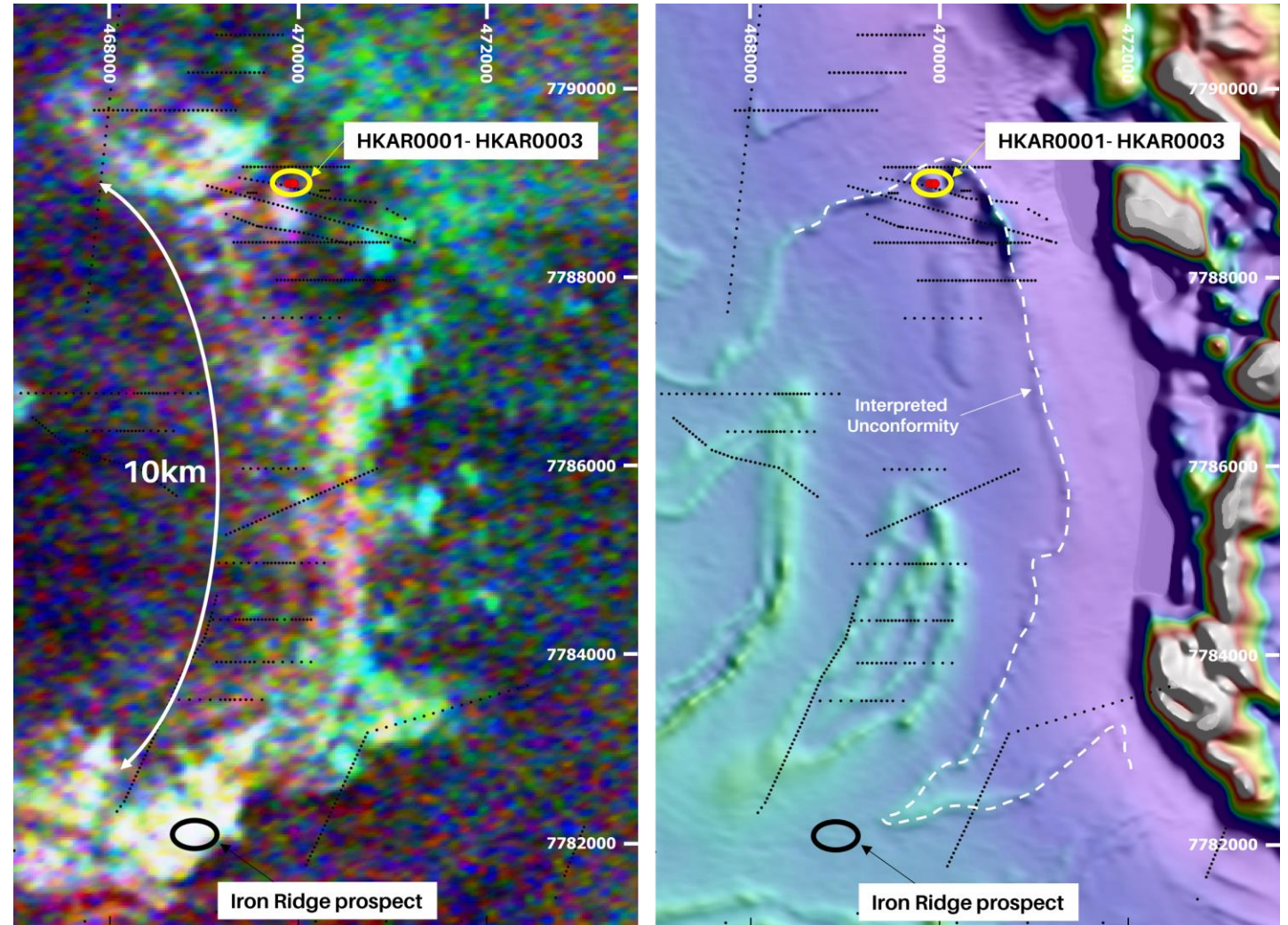
# Investigating the REE Potential





# Harkonan prospect

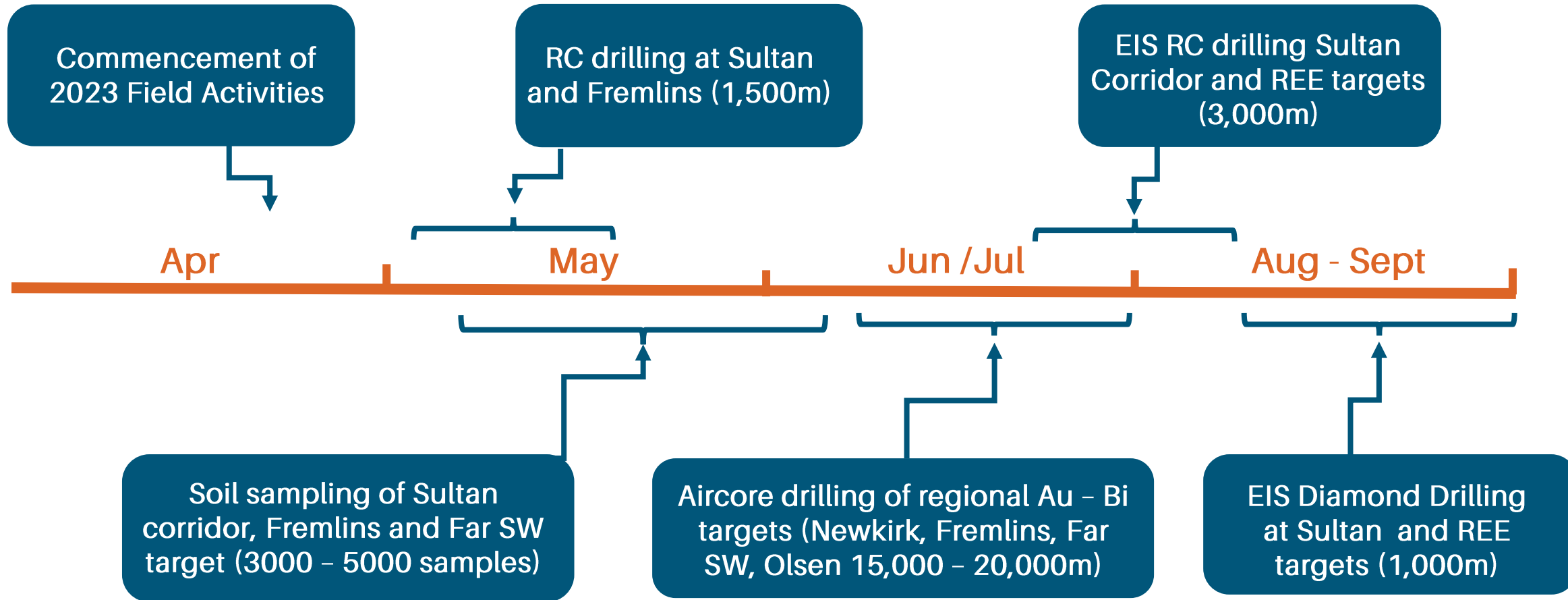
- Distinct, 10km long radiometric anomaly along interpreted unconformity
- Only three holes across entire target area has any REE analysis but highlight strong cerium, lanthanum and yttrium anomalism
- Rock chip sampling at Iron Ridge identified anomalism of 0.1 – 0.5% TREO
- Surface sampling and initial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



***Harkonan prospect drillhole location, radiometrics and detailed magnetics***



# Strong Newsflow – Next 6 Months





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