

# South-West Connect

18-19 October 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.

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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 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
- New high grade gold mineralisation discovered at Sultan
- Ni-Cu-PGE mineralisation identified within the Hawkeye intrusion
- ~17,500 metres of drilling completed in 2023

# Hamelin Gold

## Directors, Key Management and capital structure



**Mr Will Robinson**  
**Non Executive Chairman**

*B.Comm, MAusIMM*

- Managing Director of Encounter Resources Ltd
- Non-Executive Director of Hampton Hill Mining
- Former President of the Association of Mining and Exploration Companies (AMEC)



**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 KC**  
**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**

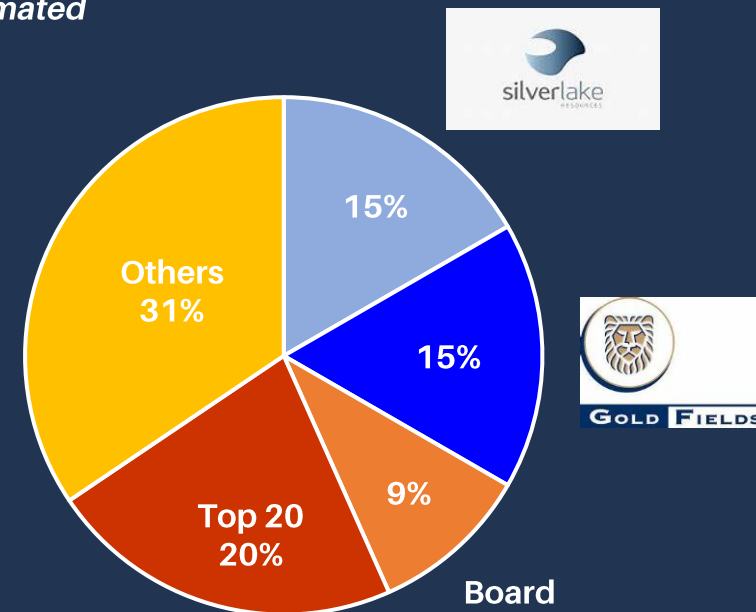
*B.Sc (Hons)*

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

### CAPITAL STRUCTURE

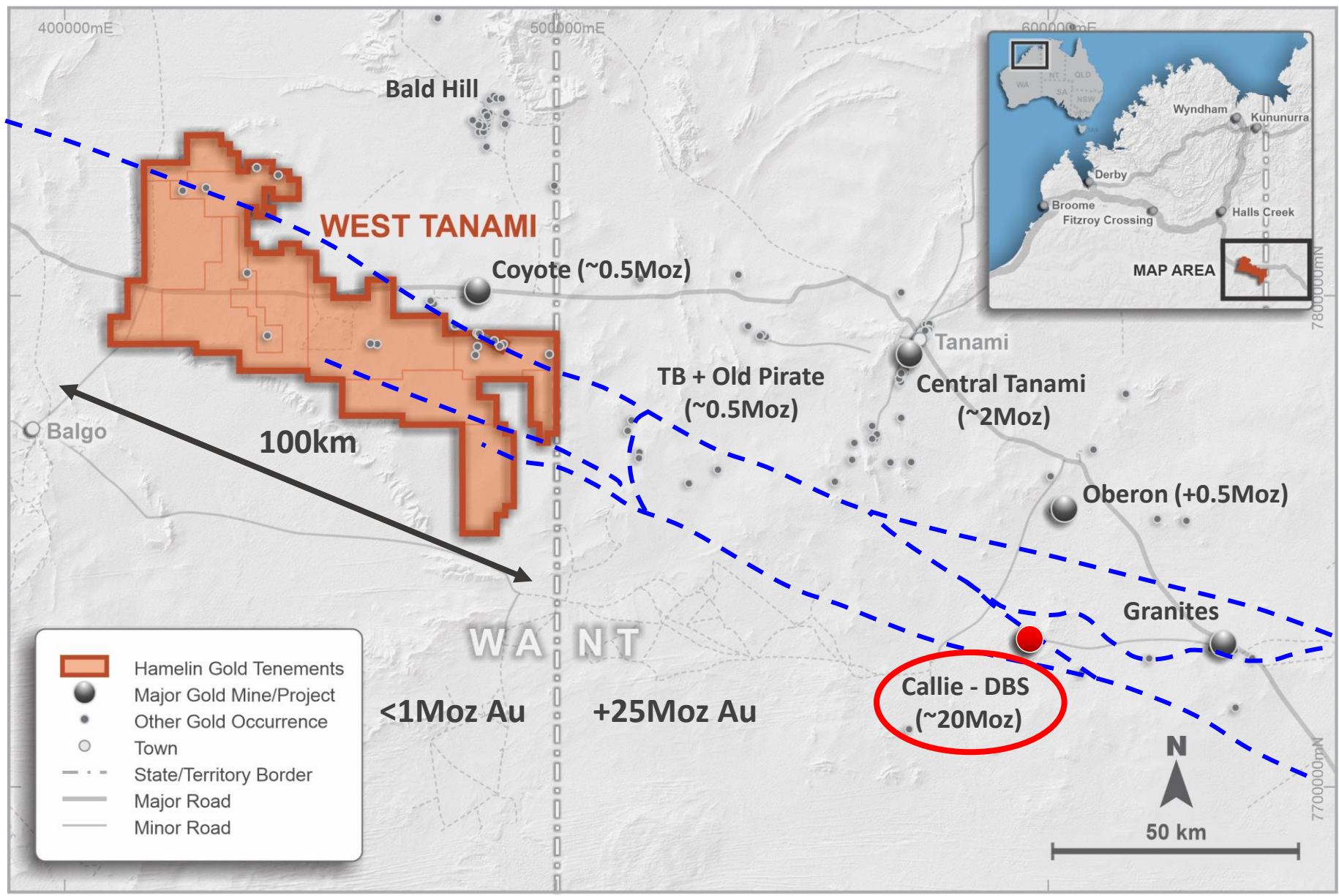
|                                   |         |
|-----------------------------------|---------|
| Shares on Issue                   | 157.5M  |
| Director, ESOP and broker options | 11.6M   |
| Market capitalisation (@8.5c)     | \$13.4m |
| Cash (30/09/2023)                 | \$6.3M* |
| Enterprise value                  | \$7.1M  |

*\*Estimated*





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





# West Tanami: An Undercover Exploration Opportunity





# Target Generation : Prediction and Detection

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

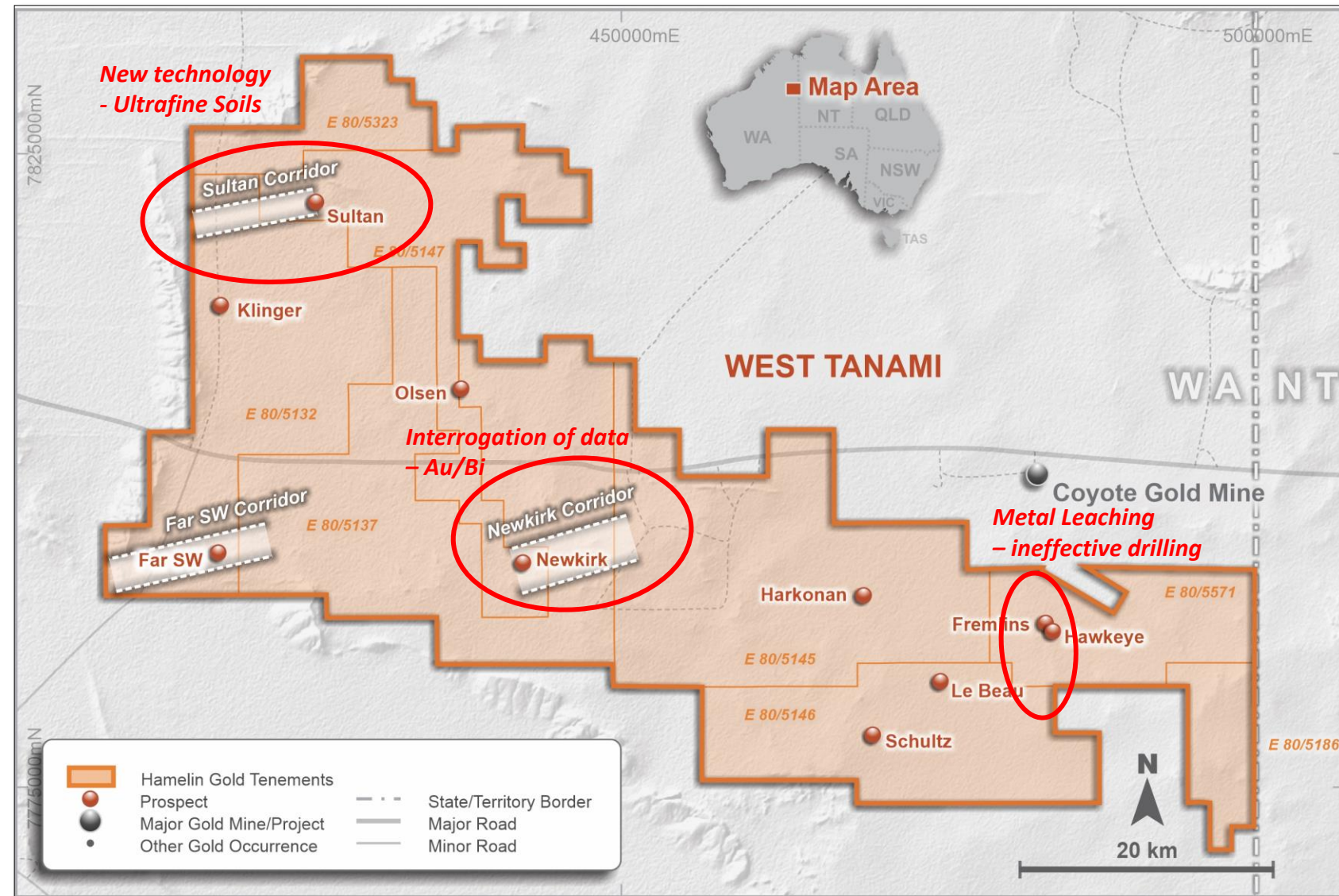


*New Geochemical Tools : CSIRO  
developed Ultrafine<sup>®</sup> soils*



# Key Learnings

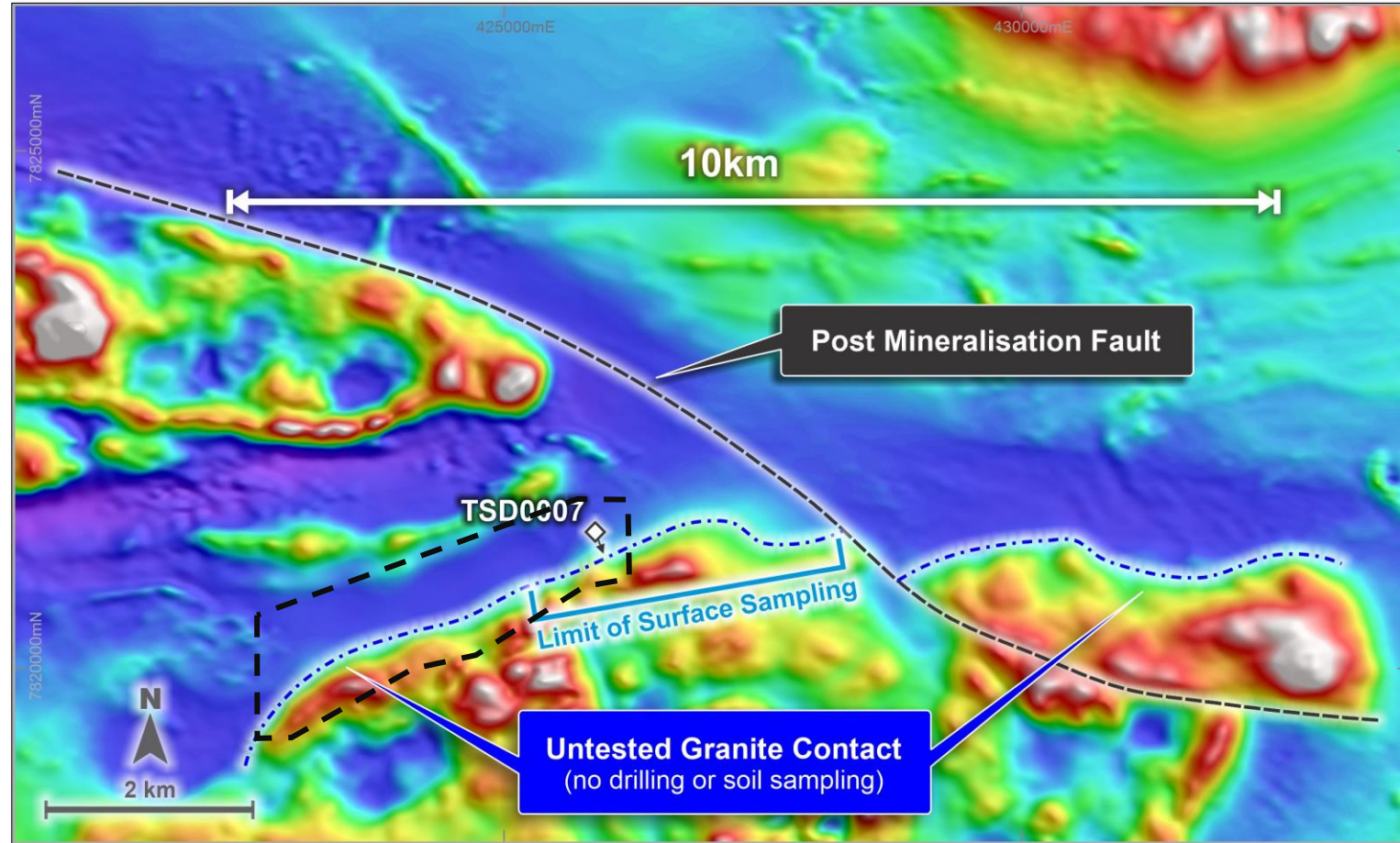
- Sultan – application of new exploration technology in sand covered terrain – Ultrafine fraction soils
- Newkirk – identification of strong gold / bismuth association and re-evaluation of historical anomalies
- Fremlins – leaching of metals and the ineffectiveness of shallow drilling





# Sultan Gold Corridor

- 10km long previously unknown gold corridor
- ~2km portion soil sampled identifying Au-Bi anomaly
- Single drill line completed intersecting:
  - 7.6m @ 3.2g/t Au from 326.2m incl. 1.1m @ 15.9g/t Au from 329.7m<sup>1</sup> in TSD0007
- First application of CSIRO developed Ultrafine technology identifies two large soil anomalies
- Initial aircore drilling program completed

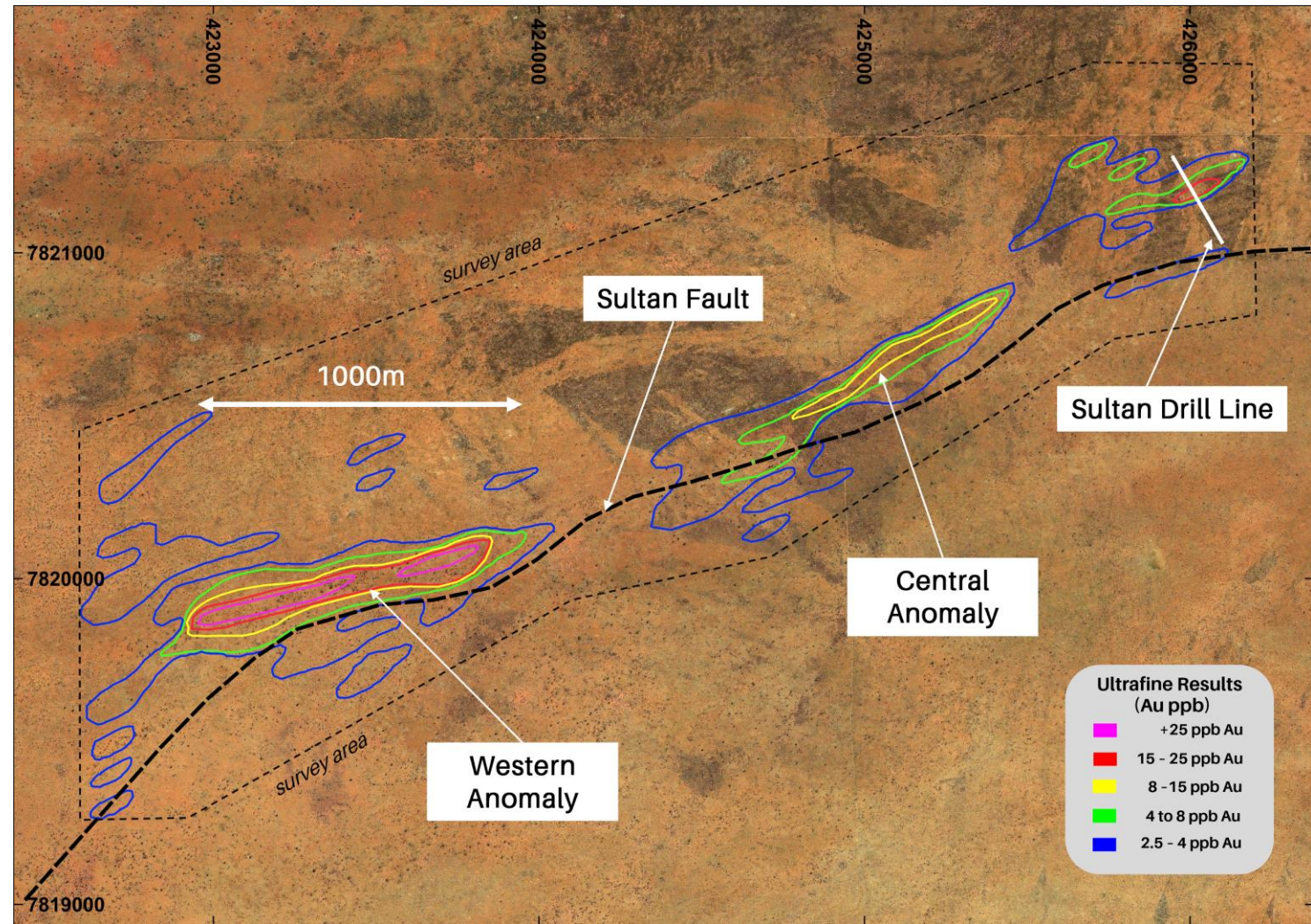


*Sultan Corridor – TSD0007 location on magnetics*



# Sultan Gold Anomalies

- Coherent, high tenor gold anomalies under thin (~3m) sand cover
- No previous exploration along the corridor
- Western Anomaly is coincident with an interpreted flexure in the Sultan Fault
- 67 aircore holes completed (~1,500m) to test the Western and Central Anomalies
- Results expected in December 2023

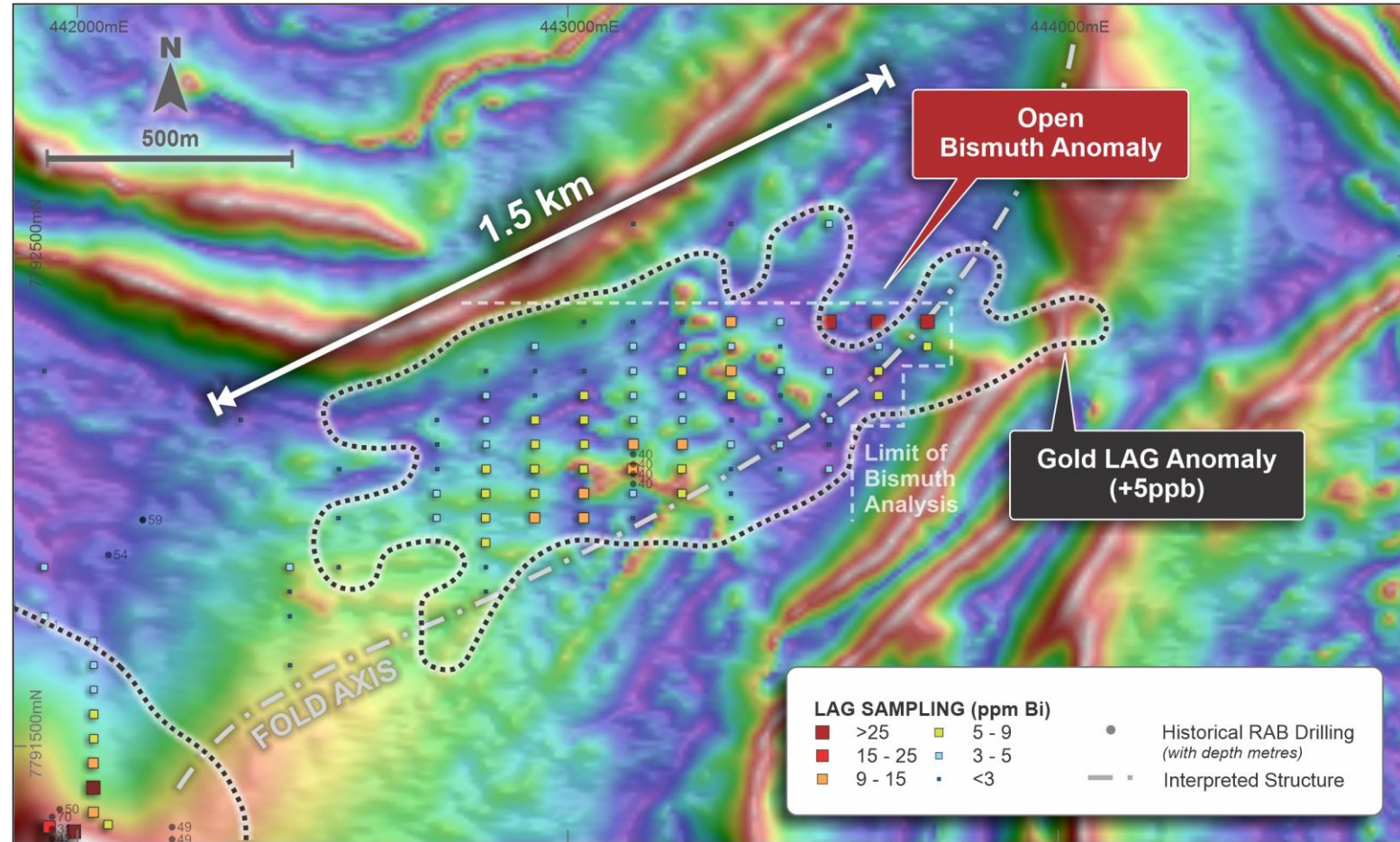


*Sultan Corridor – Ultrafine Soil Results on Bing background*



# Newkirk Camp Scale Gold Target

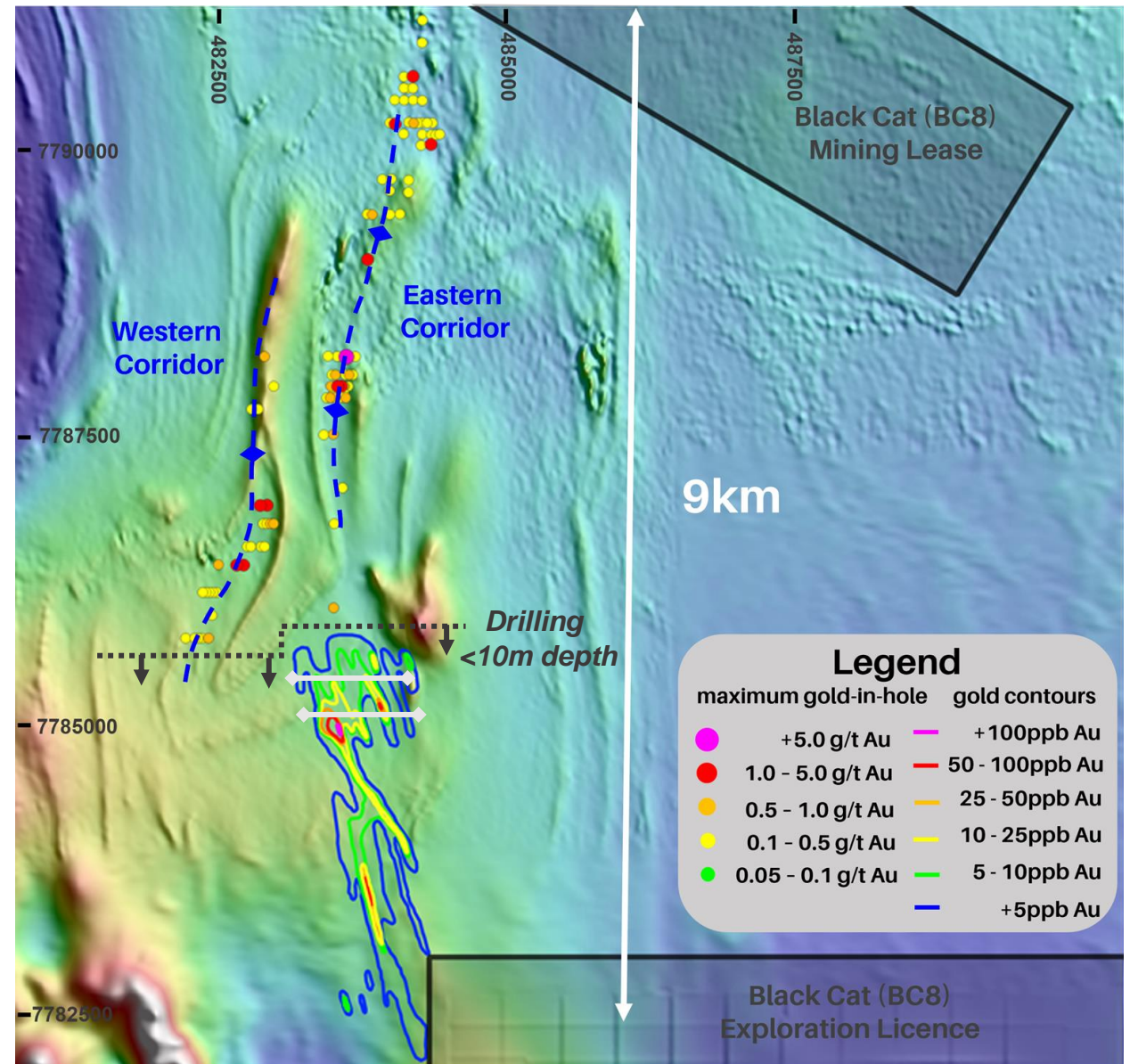
- 1.5km long gold and bismuth LAG anomaly
- Coincident with structural flexure in antiformal fold axis
- Drilling (> 10m deep) limited to four, 40m deep holes on one line
  - 5m @ 0.6g/t Au from 1m
  - 2m @ 0.1g/t Au from 38m to EOH
- 52 aircore holes drilled across five sections
- Results expected in November 2023



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

# Fremlins Prospect

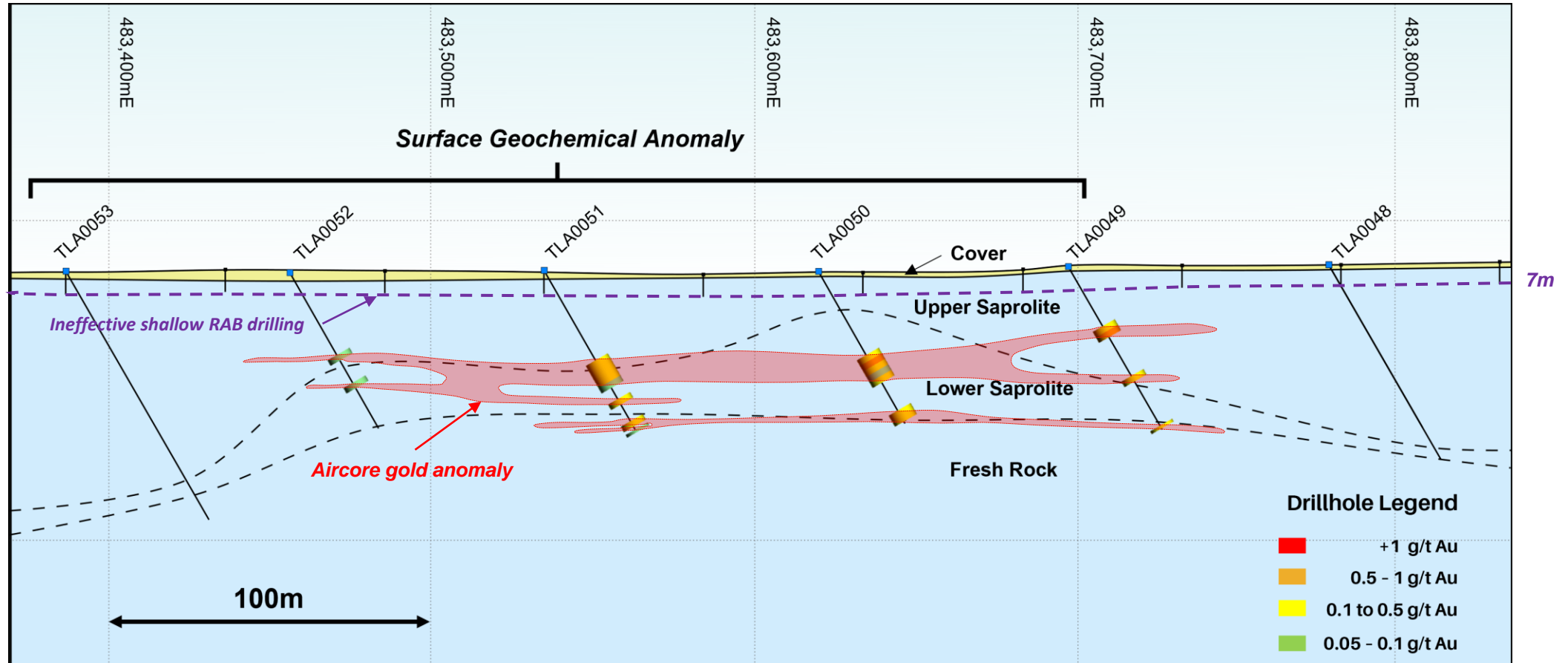
- Two defined regolith anomalies extend over 6km of strike (+100ppb Au)
- End of hole gold anomalism open along strike and at depth<sup>1</sup>
  - 22m @ 0.6g/t Au from 45m to EOH incl. 6m @ 1.71g/t Au from 57m
  - 30m @ 0.3g/t Au from 9m incl. 1m @ 5.72g/t Au from 12m
  - 80m @ 0.2g/t Au from 52m to EOH
- Drilling over southern gold anomaly limited to 7m depth - ineffective
- Aircore drilling identifies anomalism below shallow holes and opens up southern 3km of the system



Fremlins – Geochemistry, max Au-in-hole on detailed TMI magnetics



# Fremlins Prospect



Fremlins – Southern Anomaly PHRAB vs Aircore

# Activity Summary (Jul – Dec 2023)

| Program  | Timing    | Results (est.)    |
|--|-----------|-------------------|
| Fremlins / Hawkeye aircore drilling (4,400m)         | Completed | Received          |
| Sultan, Newkirk, Far SW geochemistry (1,500 samples) | Completed | Oct / Nov '23     |
| Harkonnen, Schultz and Le Beau RC drilling (2,600m)  | Completed | Oct / Nov '23     |
| Klinger, Newkirk, Olsen aircore drilling (~8,000m)   | Completed | Nov / Dec '23     |
| Sultan Geochem aircore drilling (~1,500m)            | Completed | Dec '23 / Jan '24 |
| Fremlins Phase 2 Aircore drilling (~1,000m)          | Completed | Dec '23 / Jan '24 |





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