



John Forrest and Party at Mt Malcolm National Australia Bank, 1899

<https://outbackfamilyhistory.com.au>



RIU Resources
Round-up
Sydney
7-9th May, 2024

Breathing New Life

Into an

Historic Gold District

mtmalcolm.com.au

ASX:M2M

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The information in this report that relates to exploration results and exploration targets is based on and fairly represents information compiled by Mr. Vivek Sharma, a Competent Person who is a Member of the Australasian Institute of Mining and Metallurgy. Vivek has sufficient experience that is relevant to the style of mineralisation and type of deposit under consideration and to the activity being undertaken to qualify as a Competent Person as defined in the 2012 Edition of the 'Australasian Code for Reporting of Exploration Results, Mineral Resources and Ore Reserves'. Vivek consents to the inclusion in the report of the matters based on his information in the form and context in which it appears.

All parties have consented to the inclusion of their work for the purposes of this presentation. The interpretations and conclusions reached in this presentation are based on current geological theory and the best evidence available to the author at the time of writing. It is the nature of all scientific conclusions that they are founded on an assessment of probabilities and, however high these probabilities might be, they make no claim for absolute certainty. Any economic decisions which might be taken on the basis of interpretations or conclusions contained in this presentation will therefore carry an element of risk.

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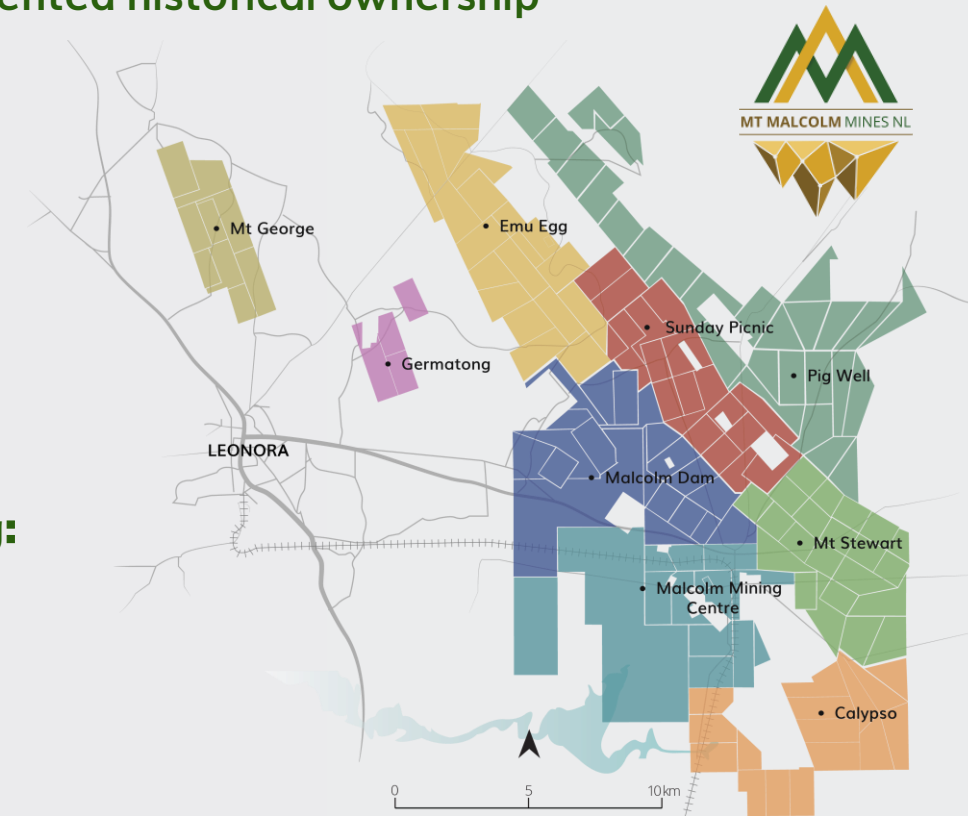


Limited modern systematic exploration over prospect areas due to fragmented historical ownership

- Majority of tenements acquired from Local Prospectors
- KKTZ is largely concealed beneath transported regolith and soil it has only seen shallow drilling presenting an opportunity for further exploration success
- "Old workings" exploited high grade (>20g/t gold) portions of veining systems but did not pursue other styles of gold mineralisation

Nine major prospect areas identified across the western margin of the KKTZ comprising 154 mineral tenements spread over ~274km² including:

- | | |
|--|--|
| • Mt George | Malcolm King |
| • Emu Egg | • Malcolm Mining Centre – including Dumbarton and Dover Castle |
| • Germatong | |
| • Pig Well | • Mt Stewart – including Paleochannel |
| • Sunday to Picnic shear zone | |
| • Malcolm Dam – including Golden Crown and | • Calypso |



Clear strategy to add shareholder value via:

- Targeting immediate resource opportunities at advanced prospects – Calypso, Golden Crown, Dover Castle, Dumbarton and Sunday Picnic Shear Zone.
- Systematic testing of regional targets.

The Right Location

easy development opportunity

Well-placed 10 km east of regional hub; Leonora

- Located in the heart of WA's Goldfields with excellent access to services and transport
- Supportive local community and readily-available workforce

Leverage off local processing facilities

- Multiple gold processing plants in close proximity of project.
 - Genesis Minerals- Gwalia (ASX: GMD)
 - Genesis Minerals- Mt Morgans (ASX: GMD)
 - Red 5's King of the Hills (ASX: RED)

Close to rail, roads and power

- Malcolm Rail Head facility is situated on tenement and currently managed and utilized by Minara Resources/Glencore
- The Leonora-Laverton Highway bisects the project providing excellent access with adjacent natural gas pipeline
- Mains electricity is accessible from the highway and from several unsealed roads extending through the project



Mergers and Acquisitions “Hot Spot”

Strategically located gold play focused on the highly prospective Keith-Killkenny Tectonic Zone

Strategic location in a well-endowed gold district

- Premium land position in the Eastern Goldfields covering a 30km strike of the Keith-Killkenny Tectonic Zone (KKTZ) – a world class, multimillion-ounce gold bearing mega structure right in the heart of Western Australia’s Tier 1 Leonora-Laverton region
- Substantial ~274km² project tenure, 10-25km east of Leonora – with multiple gold processing and infrastructure options in close proximity of project
- Central to 6 producing gold mines/mills within 100km radius

Under-explored asset base with significant discovery potential

- Nine (100% owned) highly prospective target areas - the result of a consolidation of 154 mining tenements for the very first time overlying this section of the KKTZ
- Limited modern exploration techniques applied across tenement portfolio
- Clear focus to uncover significant deposits within KKTZ structural setting

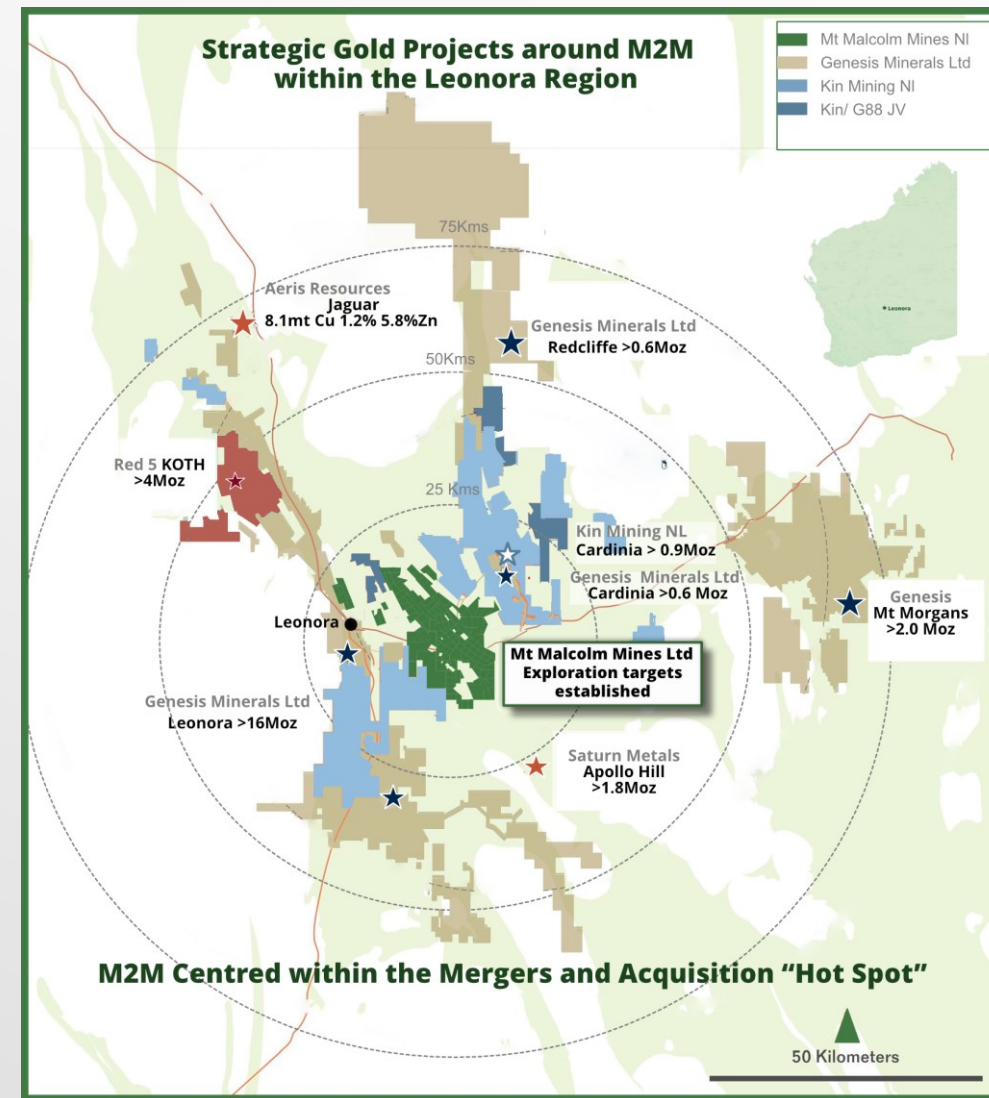
Located in the heart of WA’s world-renowned Yilgarn-Craton (Eastern Goldfields) and surrounded by several multi million ounce gold deposits

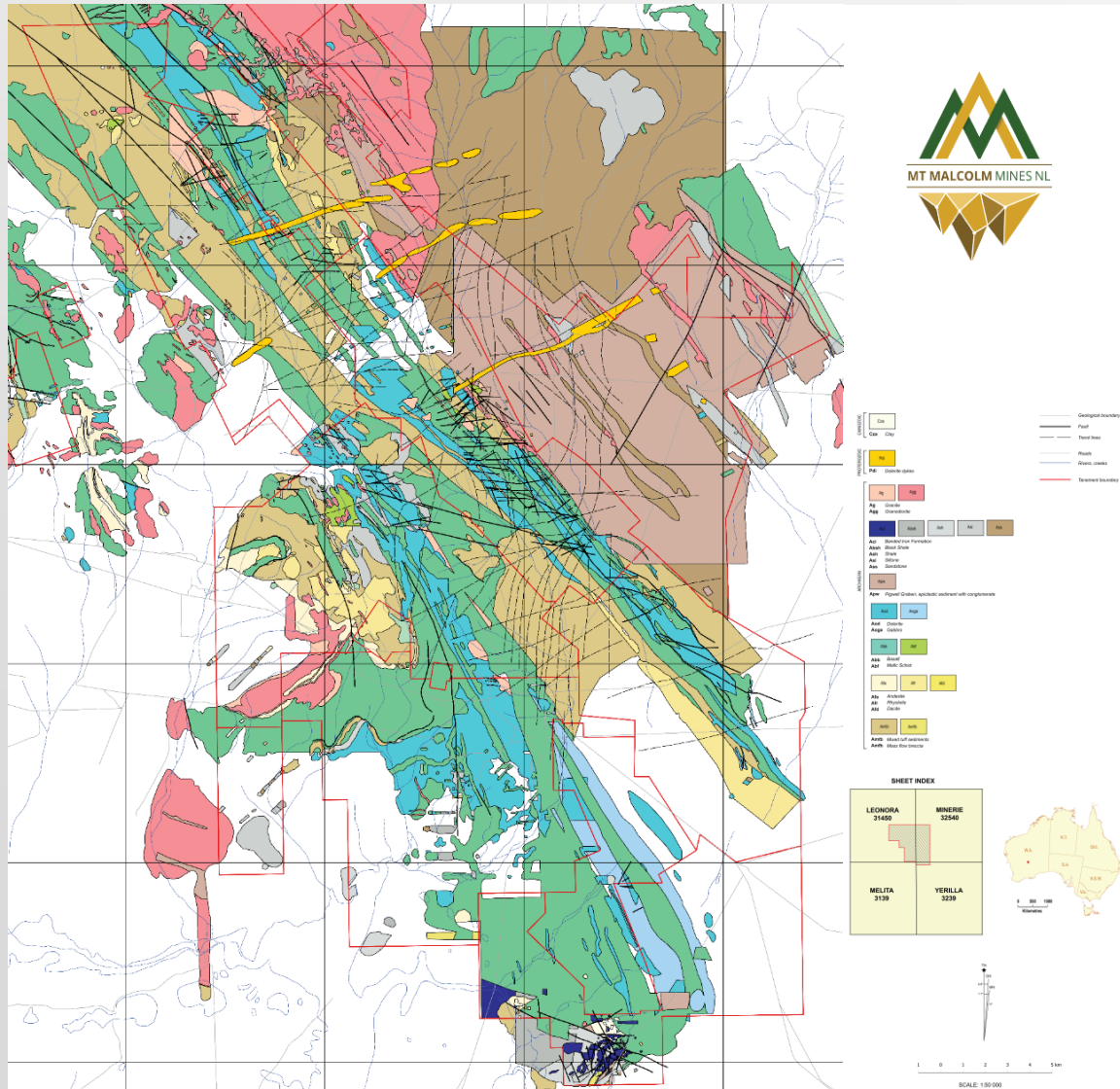


- | | | |
|---|--|--|
| • Sons of Gwalia Mine
Genesis (GMD.ASX)
+5Moz ¹ | • Thunderbox
Northern Star (NSR.ASX)
+3Moz ³ | • Sunrise Dam
Anglo Gold Ashanti (AGG.ASX)
+4Moz ⁵ |
| • Mt Morgans
Genesis (GMD.ASX)
+1.96Moz ² | • Granny Smith/Wallaby
Gold Fields (GFI.JSE)
+7Moz ⁴ | • King of the Hills
Red5 (RED.ASX)
+4Moz ⁶ |

1. <https://www.asx.com.au/asx/statistics/displayAnnouncement.do?display=pdf&id=02386383>
2. <https://www.dacangold.com.au/site/operations/resources-and-reserves>
3. <https://www.asx.com.au/asx/statistics/displayAnnouncement.do?display=pdf&id=02370818>
4. <https://www.goldfields.com/pdf/investors/integrated-annual-reports/2020/mmr-2020.pdf>

5. <https://www.anglogoldashanti.com/portfolio/australia/sunrise-dam/>
6. <https://www.red5limited.com/site/operations/resources-reserves> https://saturnmetals.com.au/wp-content/uploads/2021/01/STN-ASX-Announcement_Resource-Upgrade-Apollo-Hill_FINAL-1.pdf
7. https://www.asx.com.au/smalltomidcaps/asia/may2013/pres_sar.pdf



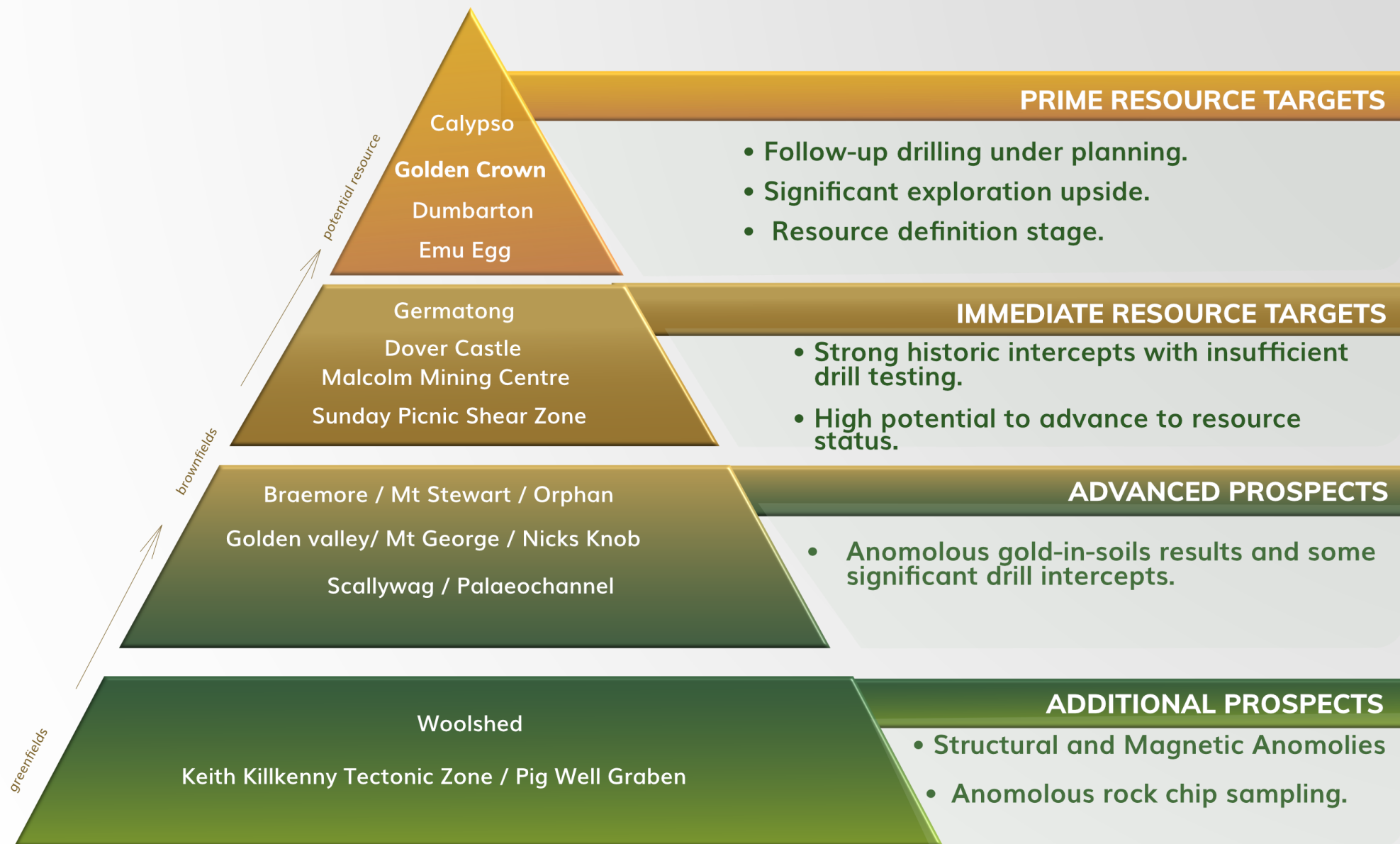


Initial exploration to focus on extensions of historic production areas and follow-up of high-grade drill intercepts

- Mt Malcolm Mining Centre – historical production yield of 47,200 oz (62,485 t @ 23.5 g/t Au) prior to 1954
- Significant exploration target at the Calypso prospect of between 149k - 276koz gold at shallow depth offering near-term JORC 2012 resource conversion potential
- Shallow, high-grade shear zones associated gold intercepts, including:
 - **10m @ 15.40 g/t Au** from 10m (Golden Crown Prospect)
 - **5.32m @ 3.77g/t Au** from 10.98m (Calypso Prospect)
 - **24m @ 2.48 g/t Au** (10-34m) incl **5m @ 7.37 g/t Au** (18-23m) (Dover Castle Prospect)
 - **4m @ 7.44 g/t Au** (32-36m) in MB01 including **1m @ 18.5 g/t Au** (36-37m) (Dumbarton Prospect)

Tenement holdings are dissected by the district's prevalent gold fertile and highly prospective Keith-Kilkenny Tectonic Zone

- Keith-Kilkenny Tectonic Zone (KKTZ) regarded as a deep-seated, mantle tapping structure providing a regional conduit for mineralized hydrothermal fluids and highly prospective for gold accumulation
- Complex structural system of North West orientated shearing, faulting and gold prospective geology
- Variety of mineralisation styles – BIF, shear zone, quartz lode and porphyry intrusives
- 30km of mostly contiguous strike overlying a highly sought after section of the KKTZ surrounded by the highly prospective Malcolm and Minerie Greenstone Belts
- Historically past exploration drilling has intersected strong gold mineralisation at/close to surface within the Mt Malcolm holdings



M2M Diversified Portfolio

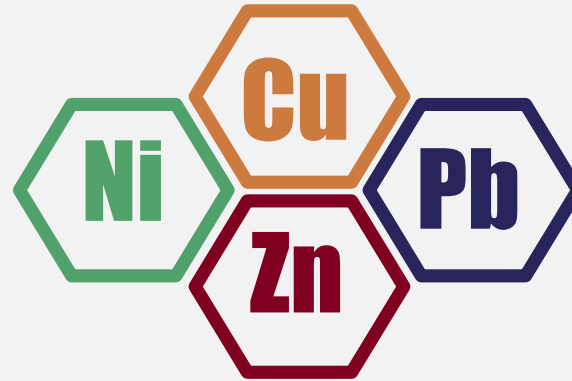
The value proposition...exposure across commodities



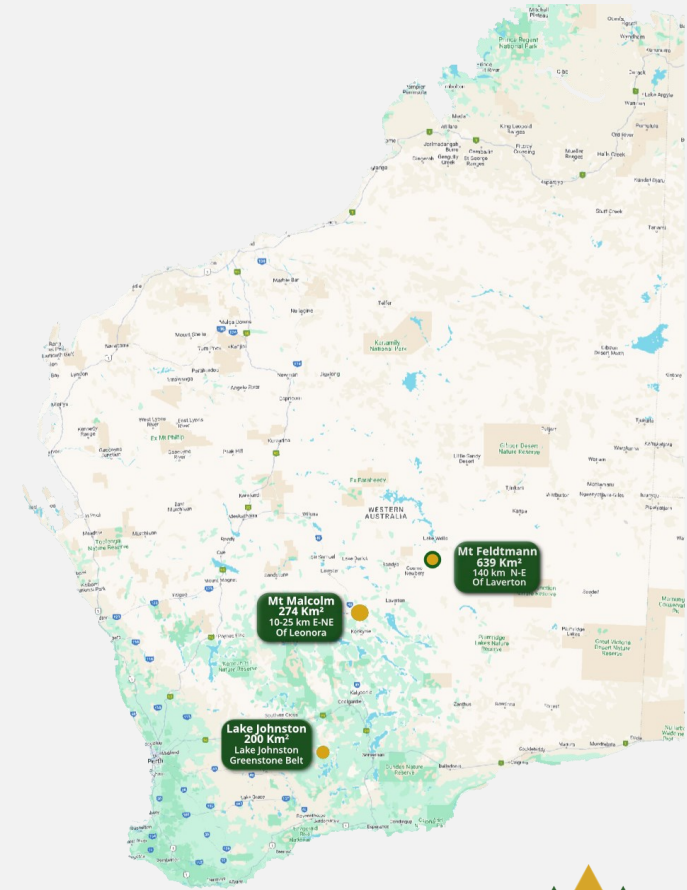
**Mt Malcolm:
Golden Crown
Calypso
Emu Egg
Dumbarton**



**Lake Johnston
Mt Feldtmann**

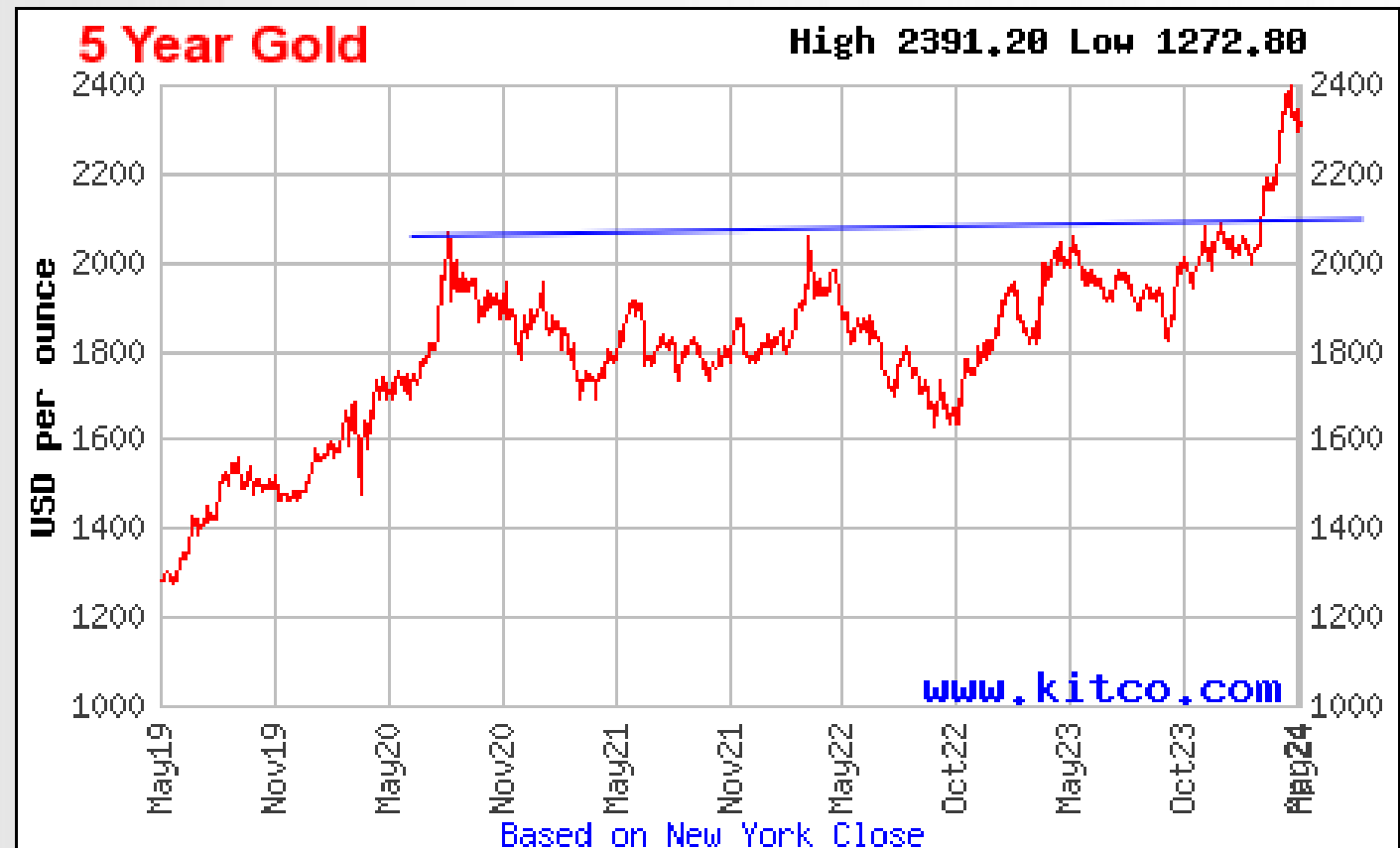


Malcolm Dam



Investment Highlights

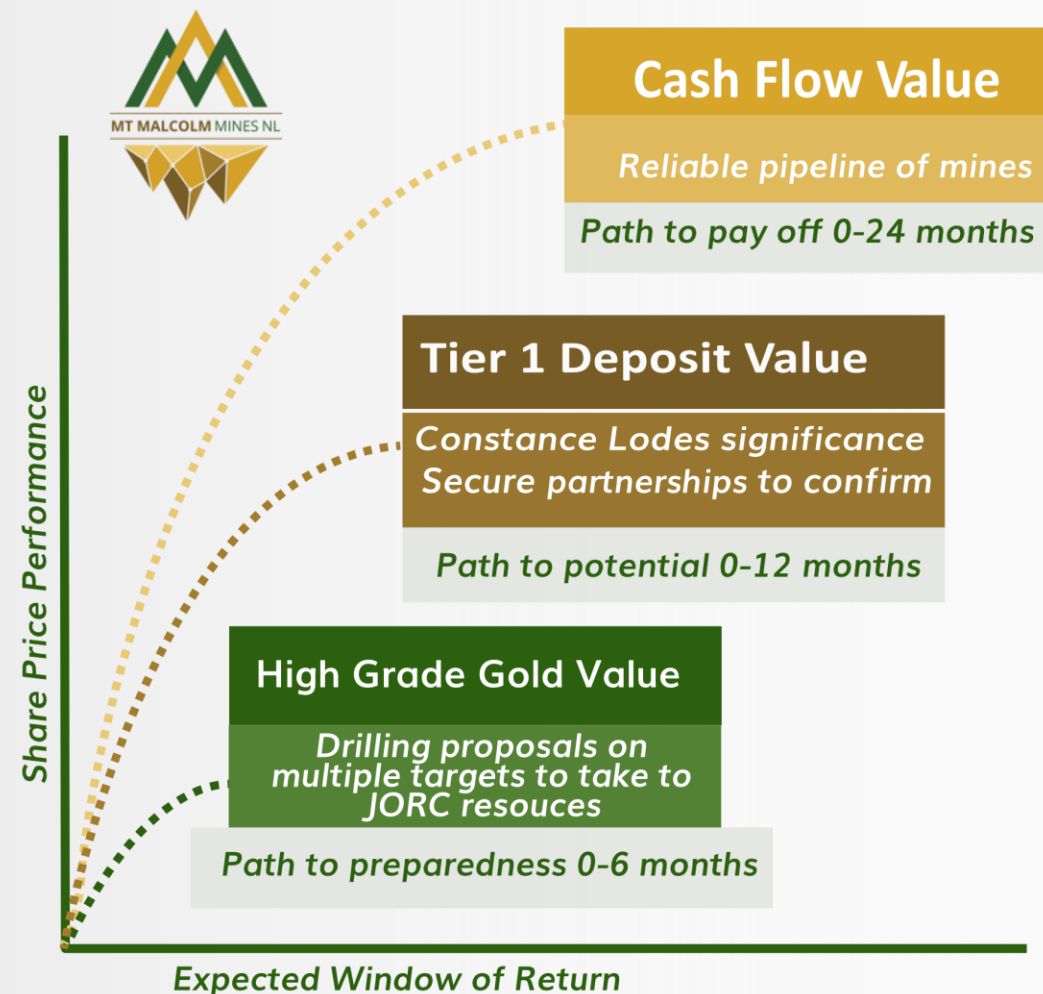
3.5yr Consolidation trend broken



5yr Gold Chart with trend resolved to upside

Creating value through rapidly advancing to Maiden Resource

Mining Cashflow and Co-Investment to develop bigger and deeper discoveries



RC drilling confirms significant high grade shallow gold mineralization supportive of small-scale mining.

2772m of RC drilling completed in Q1 2024*.

Notable intercept: **10m @ 15.40 g/t Au** (10-20m) including **1m @ 61.39** (17-18m) g/t Au in drillhole 24GCRC060

Other high-grade intercepts:

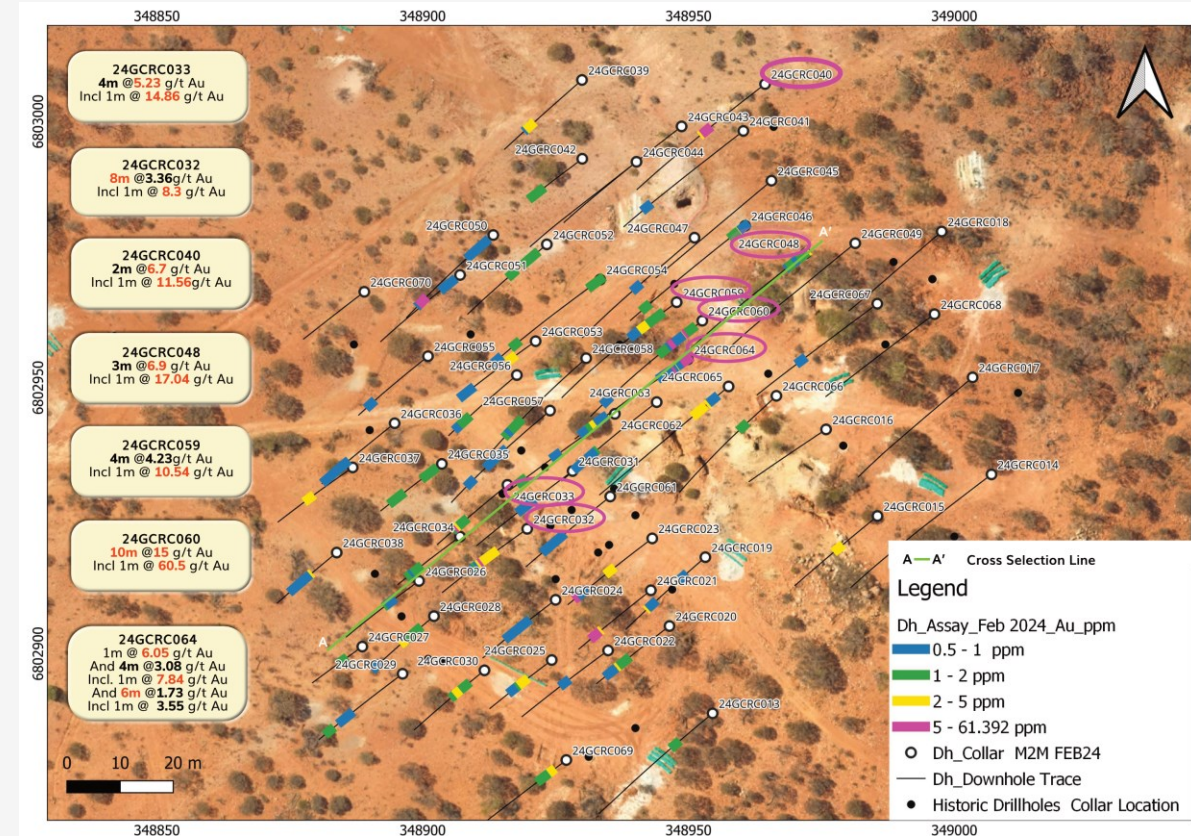
8m @ 3.36 g/t Au (16-24m) in 24GCRC032
4m @ 5.23 g/t Au (22-26m) in 24GCRC033
3m @ 6.88 g/t Au (0-3m) in 24GCRC048
4m @ 4.23 g/t Au (14-18m) in 24GCRC059

Geological features suggest a conducive environment for gold mineralization.

Progressing towards maiden resource estimates.

Visible gold in drill cuttings indicates favourable gold recovery.

Plans include extension drilling and preliminary scoping studies.



*M2M's ASX release 13th March, 2024.

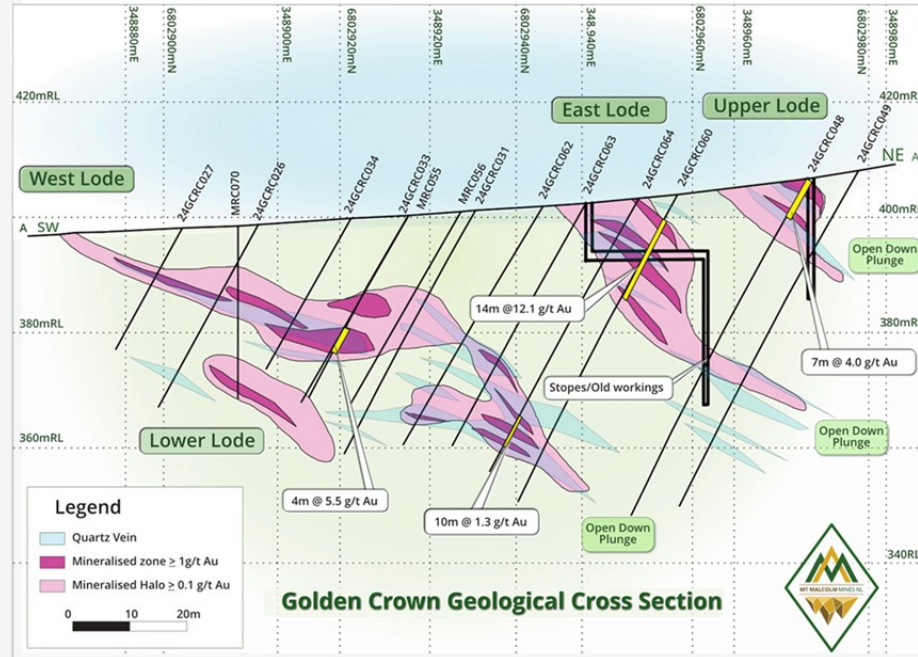
Golden Crown Prospect

High grade, near surface, historic production site

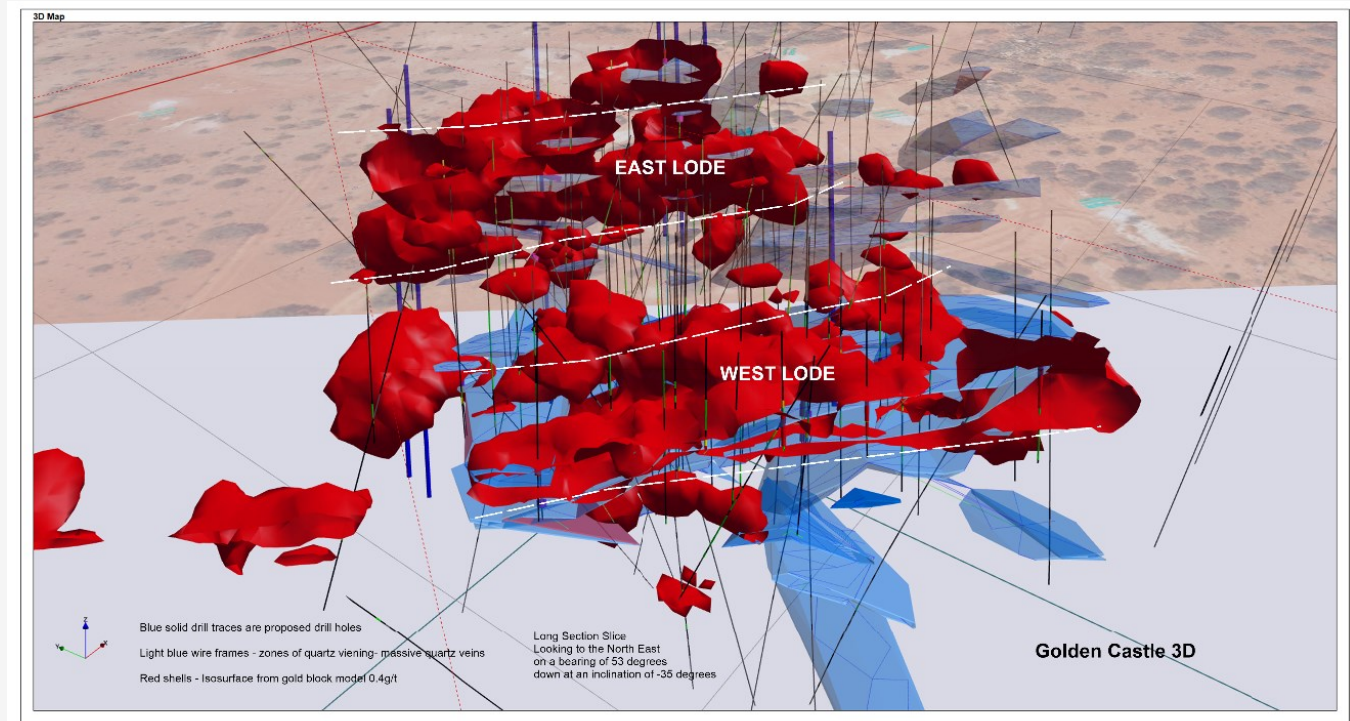
*Golden Crown produced >1,720oz Gold at the turn of the last century with an average grade > 29g/t Au



- There are **17 Intercepts >5g/t Au**, including **7 >10g/t Au**, incl **5>15g/t Au**, and including **3>30g/t Au**
- High grade near surface deposit suitable for low impact small scale mining



- Three continuous shallow lodes open along the down plunge
- Unexplored deeper mineralization
- The average depth of drillholes in the prospect is 57m, with only three holes deeper than 150m



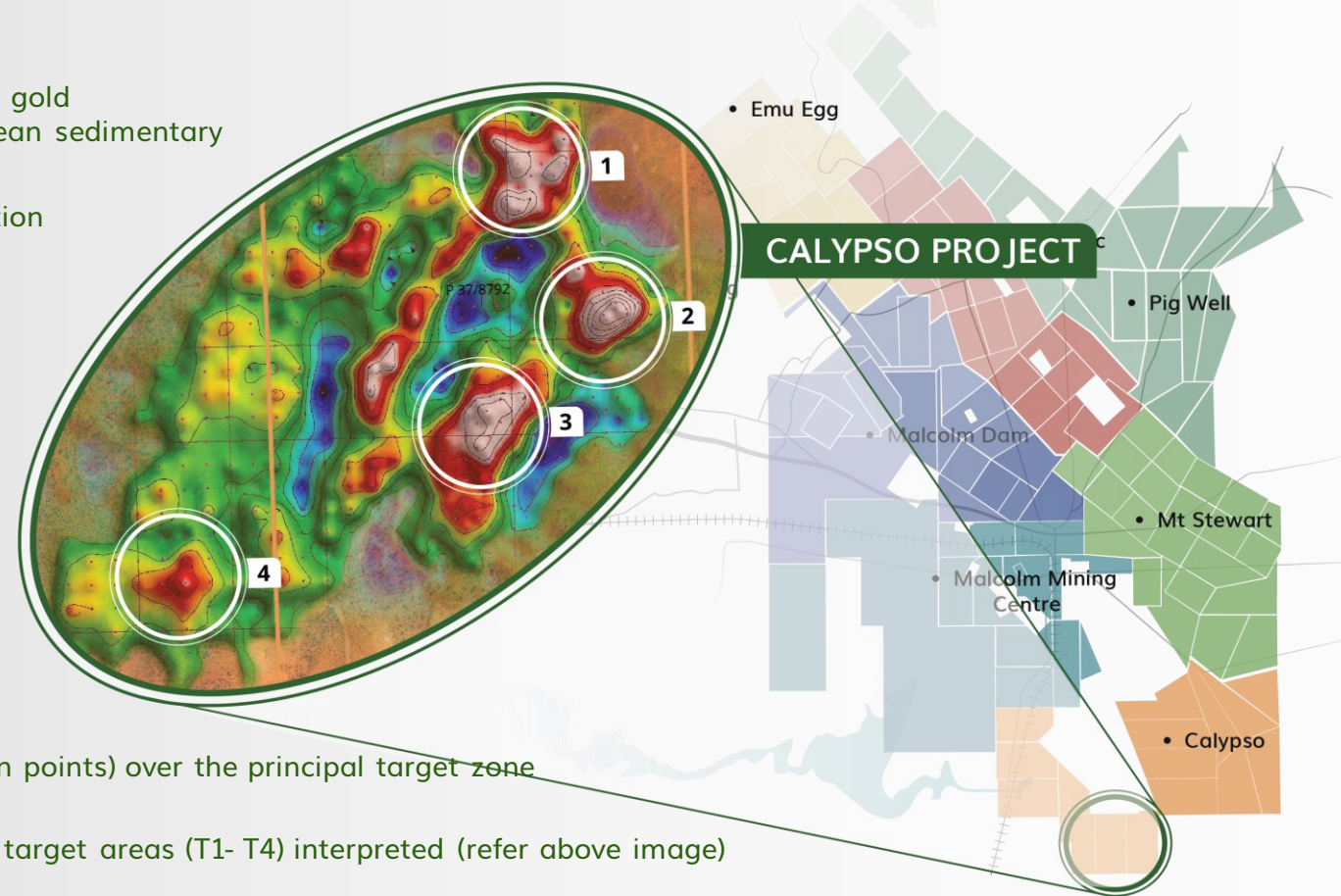
* West Australian Department of Mines – List of Cancelled Gold Mining Leases which have produced Gold. Kelly 1954.

Calypso Prospect

Near-term potential to advance resource status

Calypso

- Discovered by BHP in the 1980s Calypso presents as a shallow, dipping gold mineralisation associated with a variety of NNW trending faulted Archean sedimentary rock types and porphyry intrusives
- Large, high-order magnetic signature with established gold mineralisation
- Exploration target* at the Calypso prospect of between 2.9 Mt to 3.9 Mt at grades ranging from 1.6 g/t to 2.2 g/t Au¹ (150koz-275koz)
- Multiple owners followed with inconsistent exploration strategies for this ore type.
- Mineralisation occurs along a sheared BIF/magnetic sediment contacts associated with porphyry intrusions



Activities completed by Mt Malcolm Mines NL since listing on the ASX:

- Detailed geophysical gravity survey (2.5km x 1.75km - 2,255 observation points) over the principal target zone
- High density anomalies correspond to interpreted geological plan. Four target areas (T1- T4) interpreted (refer above image)
- Ten RC holes totalling 1,280 metres targeting results of historical exploration
- Deep diamond drilling (10 holes for 3,636 metres) focused on the T3 anomaly
- Extensions of gold mineralisation intersected down plunge from the T2 target

* Note: The potential quantity and grade of the Exploration Target is conceptual in nature and as such there has been insufficient exploration drilling conducted to estimate a mineral resource. At this stage it is uncertain if further exploration drilling will result in the estimation of a mineral resource. The Exploration Target has been prepared in accordance with the JORC Code (2012).

¹ M2M's ASX release 8th Sept, 2021 "Prospectus".

Drilling completed by others:

- 178 Aircore holes - average depth 66.5m
- 38 RC holes - average depth 88.7m
- 64 Diamond holes - average depth 136m

Drilling completed by M2M since ASX listing

- 10 RC holes (M2M) - average depth 128m
- 10 Diamond holes (M2M) - average depth 352m

North Ltd's diamond drill Intercepts include:

CD 2 11m @ 1.75 g/t Au (230-241m), 10m @ 1.26 g/t Au (266-276m)
 CD 3 5m @ 3.53 g/t Au (126-131m), 3m @ 4.375 g/t Au (138-141m)
 CD 4 6m @ 2.72 g/t Au (95-101m)
 CD 6 4m @ 4.05 g/t Au (50-54m), 4m @ 1.63 (100-104m)

North Ltd's RC drill Intercepts include:

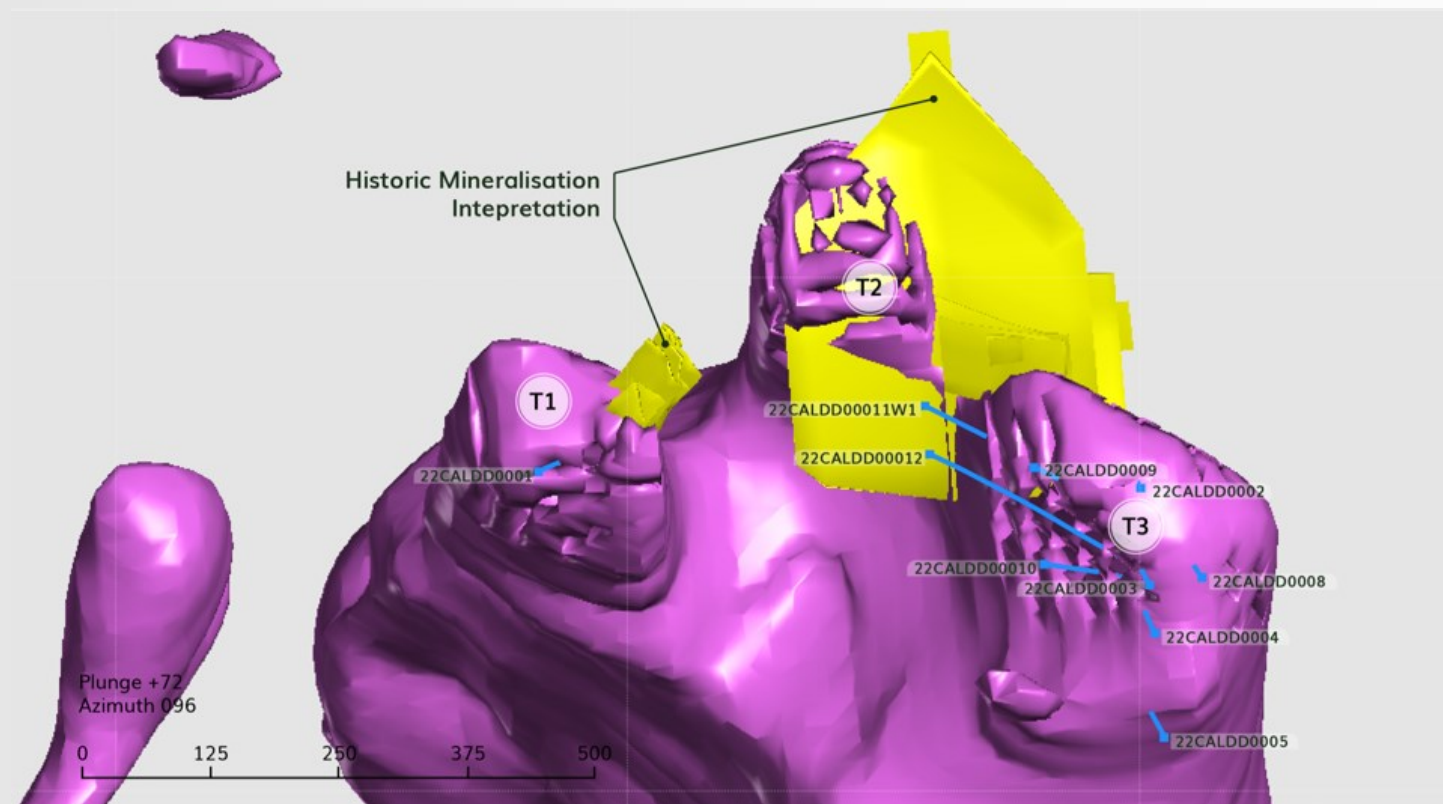
CPRC0009 1m @ 2.08 g/t Au (65-66m, 2m @ 2.46 g/t Au (105-107m)
 CPRC0010 5m @ 4.56 g/t Au (102-107m)

North Ltd's aircore drill Intercepts include:

CAC0061 8m @ 1.625 g/t Au (36-44m)

BHP's Calypso Discovery Zone diamond intercepts include:

MD-3 0.9m @ 9.39 g/t Au (123.5-124.4m), 0.5m @ 9.17 g/t Au (145.8-146.3m), 14.9m @ 1.55 g/t Au (190.5-205.4m)
 MD-9 5.32m @ 3.77 g/t Au (10.98-16.30m)
 MD-15 37m @ 1.02 g/t Au (5-42m), incl. 3.61m @ 1.40 g/t Au (8-11.61m), 0.5m @ 2.3 g/t Au (32-32.5m), 8m @ 1.9 g/t Au (34-42m)
 MD-17 4.75m @ 2.27 g/t Au (11-15.75m), 3m @ 2.99 g/t Au (34-37m)
 MD-20 4m @ 1.03 g/t Au (31-35m, 2m @ 3.13g/t Au (51-53m)



Isometric view of Target areas (T1-T3) with drill traces and historic interpreted mineralisation panels

Calypso Prospect

All the hallmarks of system widening at depth

Target Corridor Defined

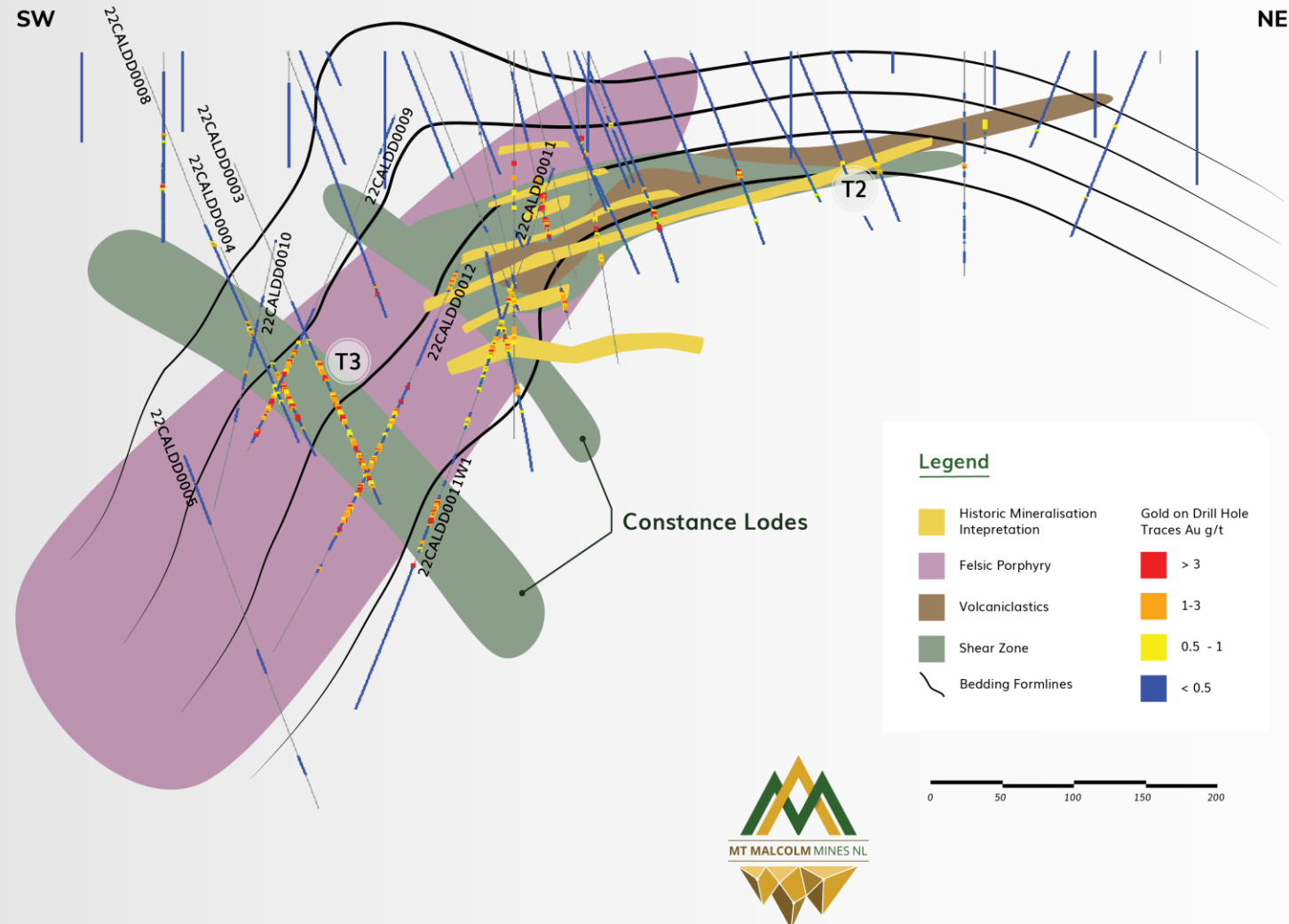
Constance discovery best M2M DDH results*

- 22CALDD011
16.21m @ 4.01 g/t Au (343.25-359.46m)
including **0.57m @ 25.81 g/t Au** (352.05- 352.62m)
- 22CALDD003
25.01m @ 2.17 g/t Au (272.84-297.85m)
- 22CALDD004
23.94m @ 2.08 g/t Au (263.61-287.55m)
- 22CALDD009
2m @ 7.39 g/t Au (229-231m)
- 22CALDD012
9.7m @ 2.30 g/t Au (339.3-349m)

Resource development plan

- Optimise targeting within T2-T3 corridor using a new geologically-constrained gravity-magnetics inversion from an improved stratigraphy and alteration model
- Build upon the historic estimate 2.9-3.9 Mt at 1.6-2.2 g/t Au aiming for >300 Koz maiden resource
- Fully-scoped drill program and budget by end Q2 2024

* M2M's ASX releases 29th July, 9th August 2022 and 7th Feb,2023.



Calypso Exploration Model

Comparison to a Multi-Million Ounce System

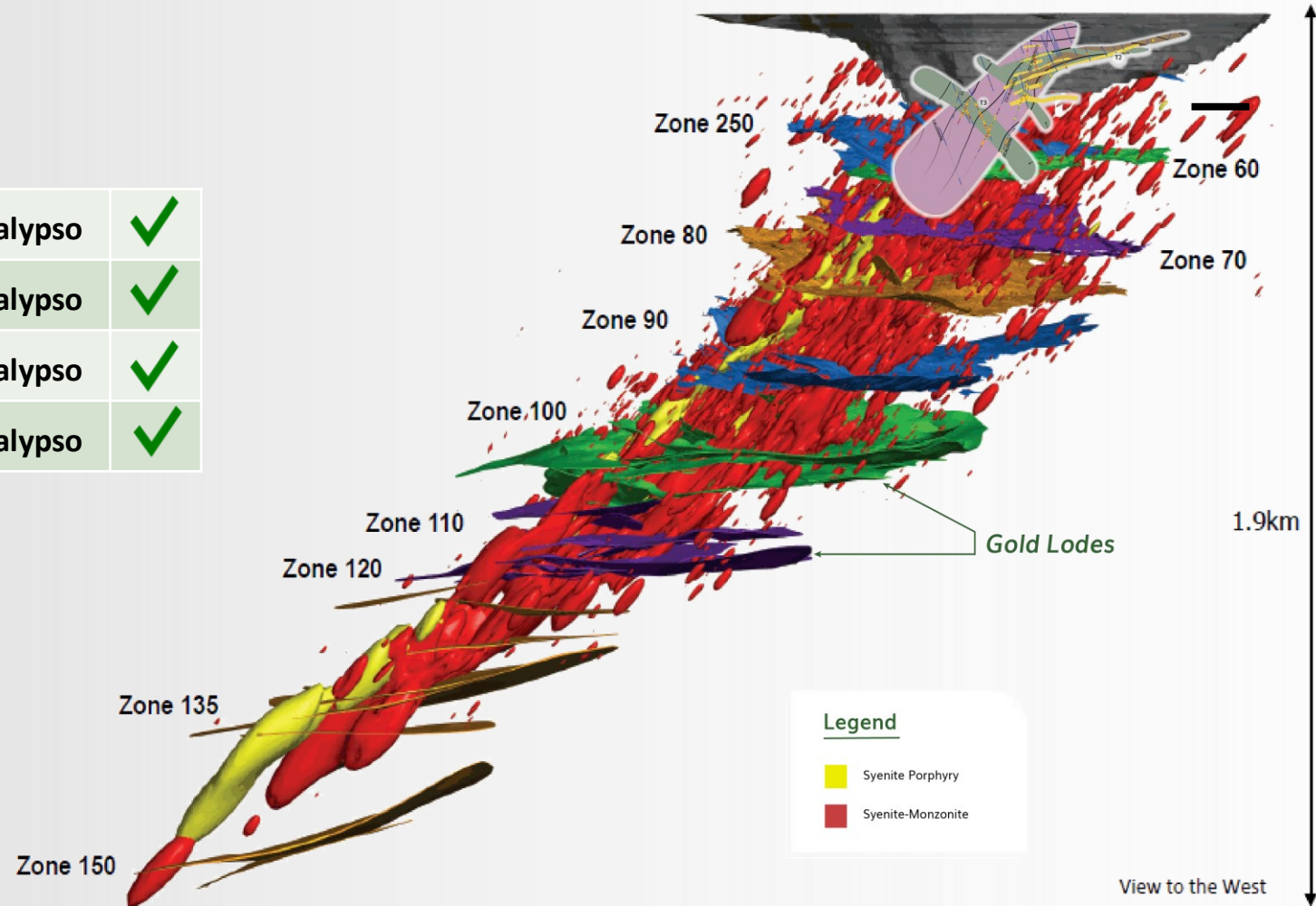
Granny Smith/Wallaby (R&R ~8 Moz*)

Gold Fields Ltd NYSE: GFI

Porphyry dyke fundamental control	Calypso	✓
Volcaniclastic conglomerate host rock	Calypso	✓
Magmatic-hydrothermal alteration	Calypso	✓
Shallow-dipping, lode-forming shear zones	Calypso	✓

Calypso targeting implications

- Repetition of controlling shear zones makes for predictable targeting/infill
- Greatest mineralisation upside within untested volcaniclastics
- Better understanding of mineralisation key to targeting larger prize at depth



*<https://www.goldfields.com/reports/annual-report-2021/mineral-resources-and-mineral-reserves-summary.php>

Image Source: Gold Fields Mineral Resource and Mineral Reserve Supplement to the Integrated Annual Report 2016: Key developments and material issues

Target zone >700m with multiple lodes within a shear zone.

- Follow up extensional drilling in planning phase
- Drilling permits granted

The notable intercepts* :

- 6m @ 2.86g/t Au (36-42m) 22DBRC004
- 20m @ 1.34g/t Au (77-97m) 22DBRC005
- 4m @ 2.52g/t Au (25-29m) incl. 1m @ 9.11 g/t Au (26-27m) 22BRC008
- 8m @ 2.1 g/t Au (28-36m) incl. 1m @ 10.6 g/t Au (31-32m) 22BRC019
- 4m @ 4.74 g/t Au (5-9m) incl. 2m @ 8.67 g/t Au (5-7m) and 1m @ 1.1g/t Au (13-14m) DRC014



RC Drill Rig at Dumbarton Project

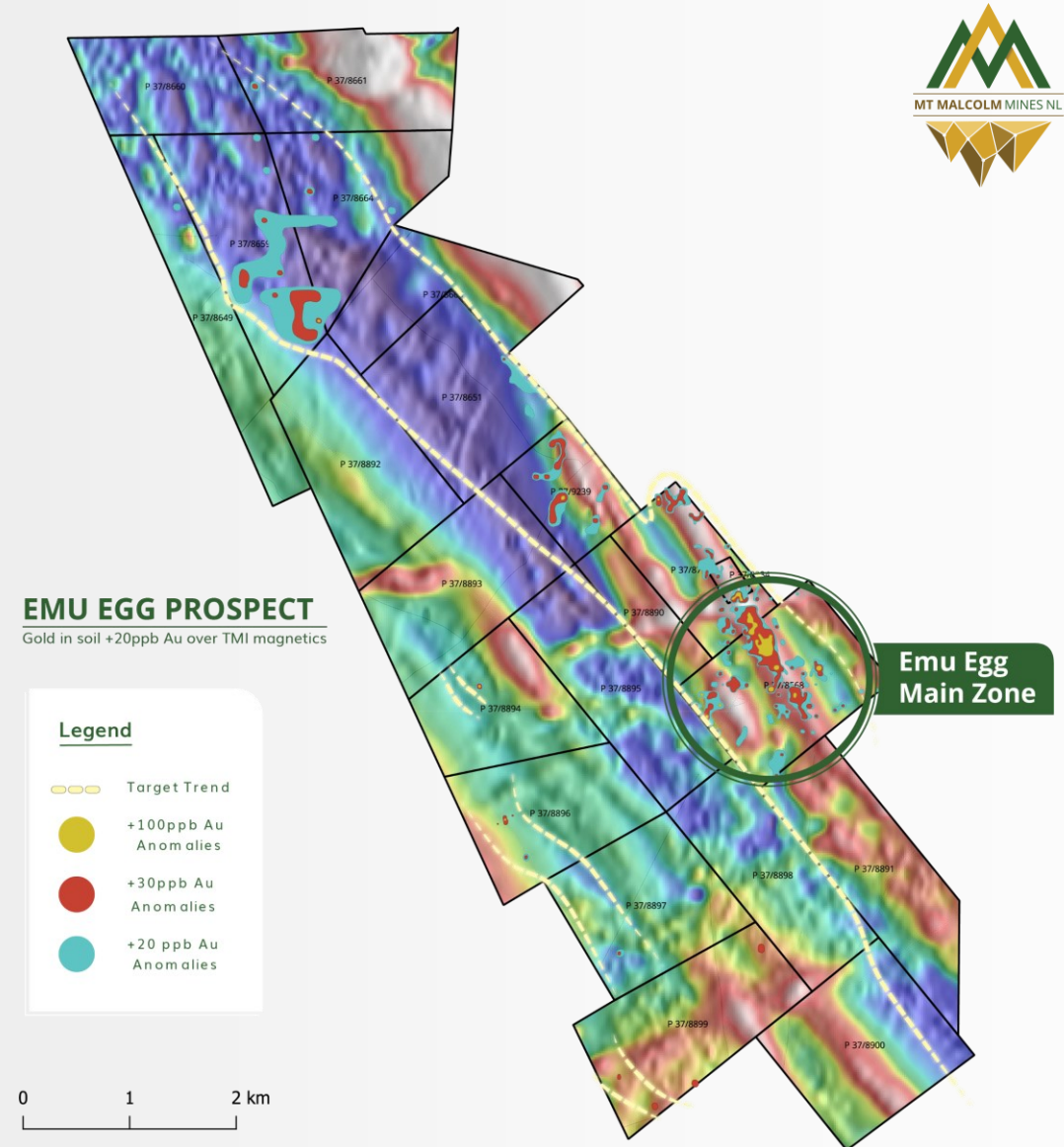
Two Zones drilled and defined within a prospective corridor.

- Magnetic highs intersected by Proterozoic dyke correlate with gold-in-soil anomalies (auger) peaking at 534 ppb Au
- Historic drilling shows gold mineralization open NW and SE

Historic RC and RAB drilling peaked at:

- EEG RC7 2m @ 14.7 g/t Au (16-18m)
- BRRB101 4m @ 7.01 g/t Au (47-51m)
- EEG RC29 2m @ 6.45 g/t Au (52-54)
- EEG RC29 2m @ 5.61 g/t Au (34-36)
- EEG RC29 2m @ 4.99 g/t Au (30-32m)
- EGRC009 8m @ 3.1 g/t Au (8-16m)

- Complimented by numerous +2.0 g/t down hole intercepts.
- Historical exploration viewed as piece meal and poorly followed up
- Base metal and gold potential regarded as first-rate



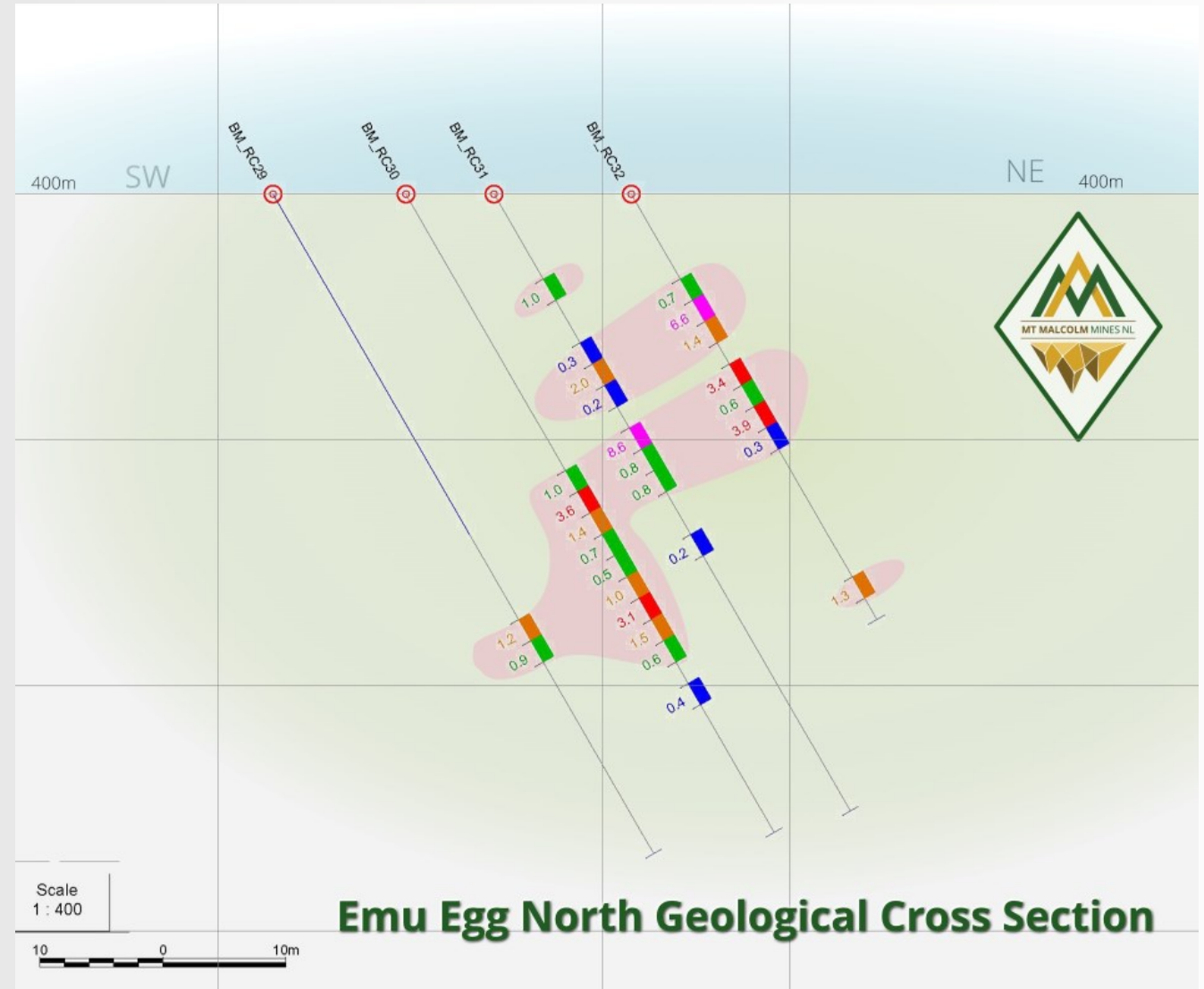
Emu Egg

Drill planning underway

1.77Kg Au recently returned from surface mining



- The Program of Work (POW) for upcoming RC drilling is approved by DMIRS
- The program is aimed at confirmation of pre JORC intersections and testing depth extensions to at least 120m

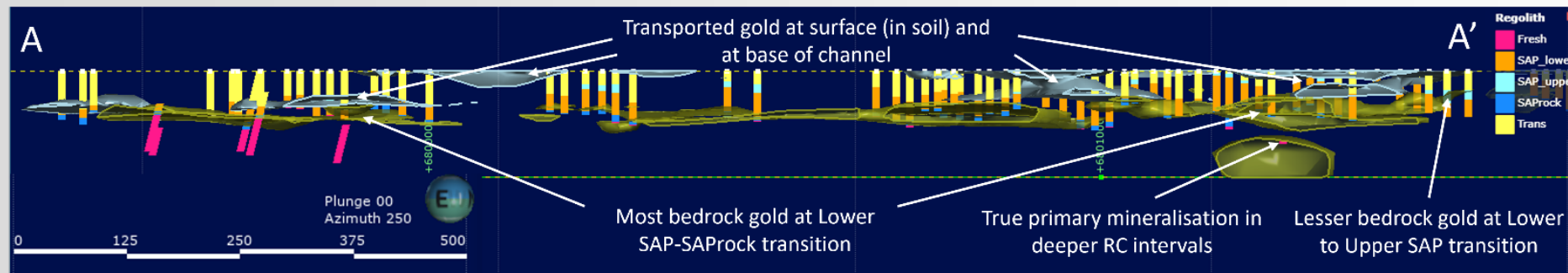
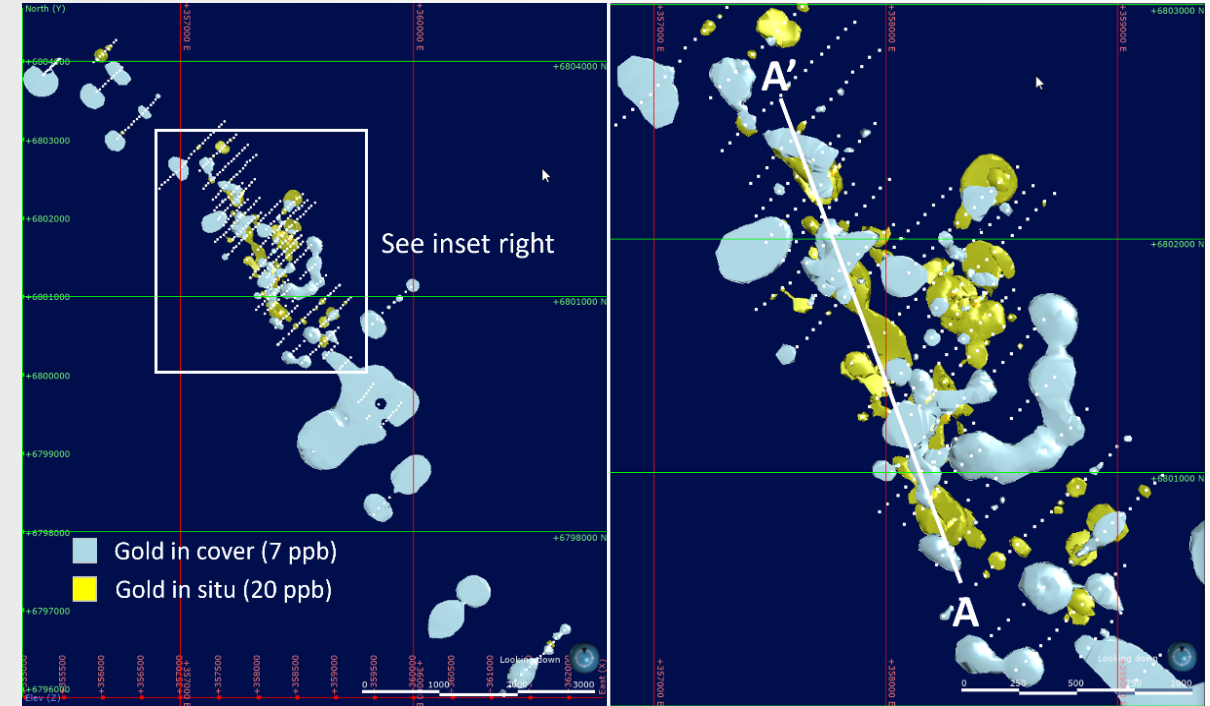


Advanced Prospects

Strong anomalism with further drilling required to define target limits

Mt Stewart "Paleochannel Prospect"

- Regolith Model reveals strong link between local geology and gold mineralisation
- Au value from historical drilling peaked at **78.97g/t** at MSRCH021 from 108m
- Important intercepts warrant extensional drilling
- Hannan's conducted exploration from 2003-08, including 561 A/C holes (27,522m) and 17 RC holes (2,226m)
- Triton (2009) 10 RC holes (1,021m) and 3 diamond holes (598.9m), showing continuation of alteration zone.
- Construction and validation of database is ongoing



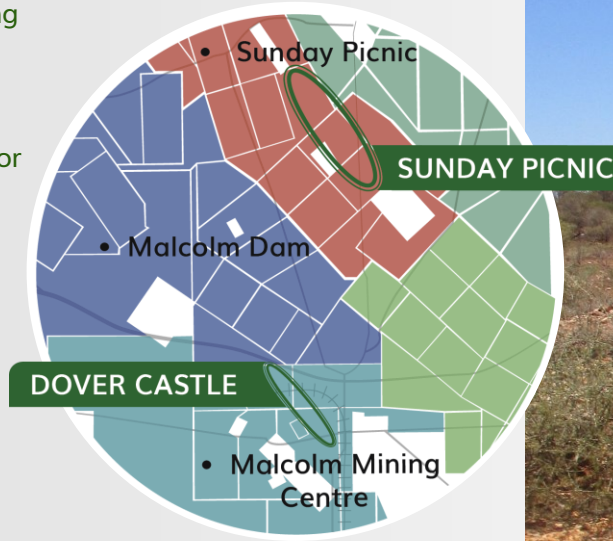


Hole ID	East GDA94	North GDA94	AZI	DIP	EOH (metre)	From (metre)	To (metre)	Interval (metre)	Au (g/t)
MSAC035	358158	6801005	000°	-90°	70	51	56	5	3.53
including						51	53	2	8.14
MSAC299	355037	6793558	000°	-90°	73	65	69	4	7.59
Including						65	66	1	26.33
MSAC339	357294	6802368	000°	-90°	61	42	49	7	4.84
Including						42	43	1	13.15
Including						45	46	1	16.3
MSRCH003	358268	6801873	120	-60°	120	68	71	3	7.32
Including						68	69	17.59	20.8
MSRCH021	357986	6802028	255°	-70°	124	108	109	1	78.97

Mt Stewart Paleochannel- Hannan's– Significant Drilling Intersections

Sunday Picnic Shear Zone Target

- Located on the Picnic Shear in the centre of the Project area covering regional scale shearing associated with the KKTZ. The NNW shear zones are traceable over 5km and display numerous anomalous drill intercepts and anomalous soil geochemistry along the structure
- Gold mineralisation is associated with sheared lithological contacts or close to sheared lithological contacts
- Historic channel sampling at Sunday returned:
 - **2m @ 108 g/t Au, 1.75m @ 73.1 g/t Au and 3m @ 17.18 g/t Au.**
- RC drill results (Pacrim Energy 2007) include:
 - PNRC002 **2m @ 35.35 g/t Au** (89-91m) Quartz vein incl. **1m @ 49.5 g/t Au**
 - PNRC005 **3m @ 1.09 g/t Au** (52-55m) Felsic schist, with trace to 20% quartz
- Multiple shear zone structures with high grade drill intercepts requiring follow-up
- Strategy – initial 5,000m AC drilling programme. Planning commenced to systematically test shear systems along the strike within the prospect



Dover Castle

- Gold mineralisation within steeply dipping quartz veined shears
- Strike extensions to Dover Castle are mineralised for +2km
- Locally shears and fault zones persist for hundreds of metres along strike
- Drill intersections Jubilee (1995) and Torian (2017) include:
 - MSR185 **16m @ 2.34 g/t Au** (4-20m)
 - DCRC005 **24m @ 2.48 g/t Au** (10-34m) incl **5m @ 7.37 g/t Au** (18-23m)



Historic Workings at Dover Castle

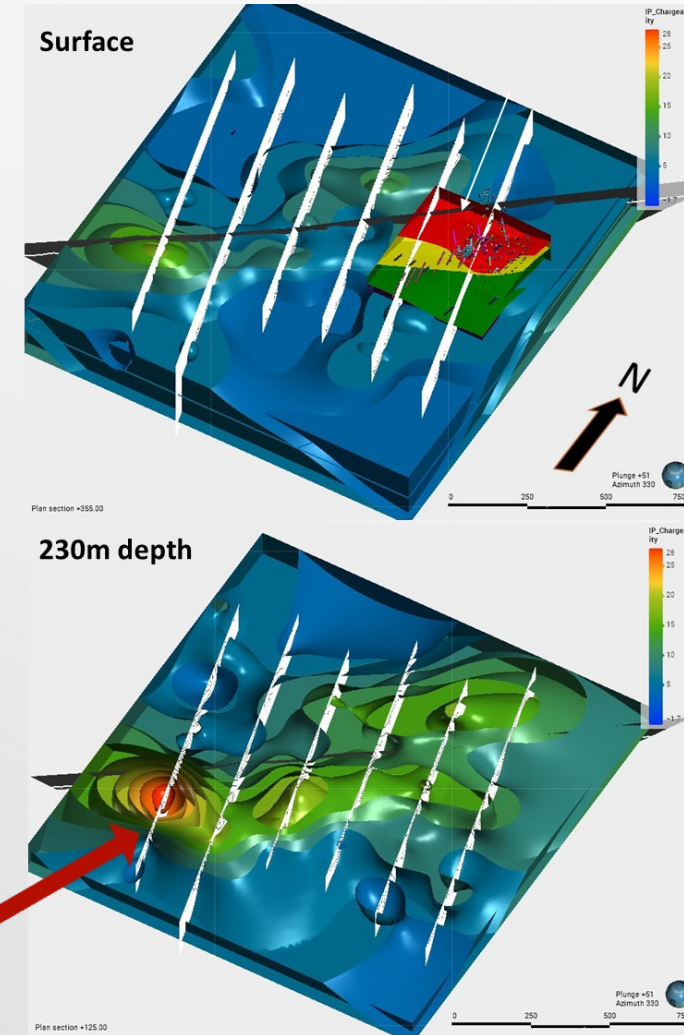
Attractive VHMS upside

- Following-up 40-year-old Chevron exploration
- Favourable for profitable style of Cu-Zn mineralisation

Targeting: direct evidence

- Chevron IP anomaly at depth: chargeability indicates sulfide body
- Prospect – Golden Crown – historically mined and drilled for gold
 - 3D geological model indicates strata anomalous in metals and sulfide
 - modelling will aid targeting to detect favourable VHMS horizon
- Geophysics to extend existing anomaly and find additional targets

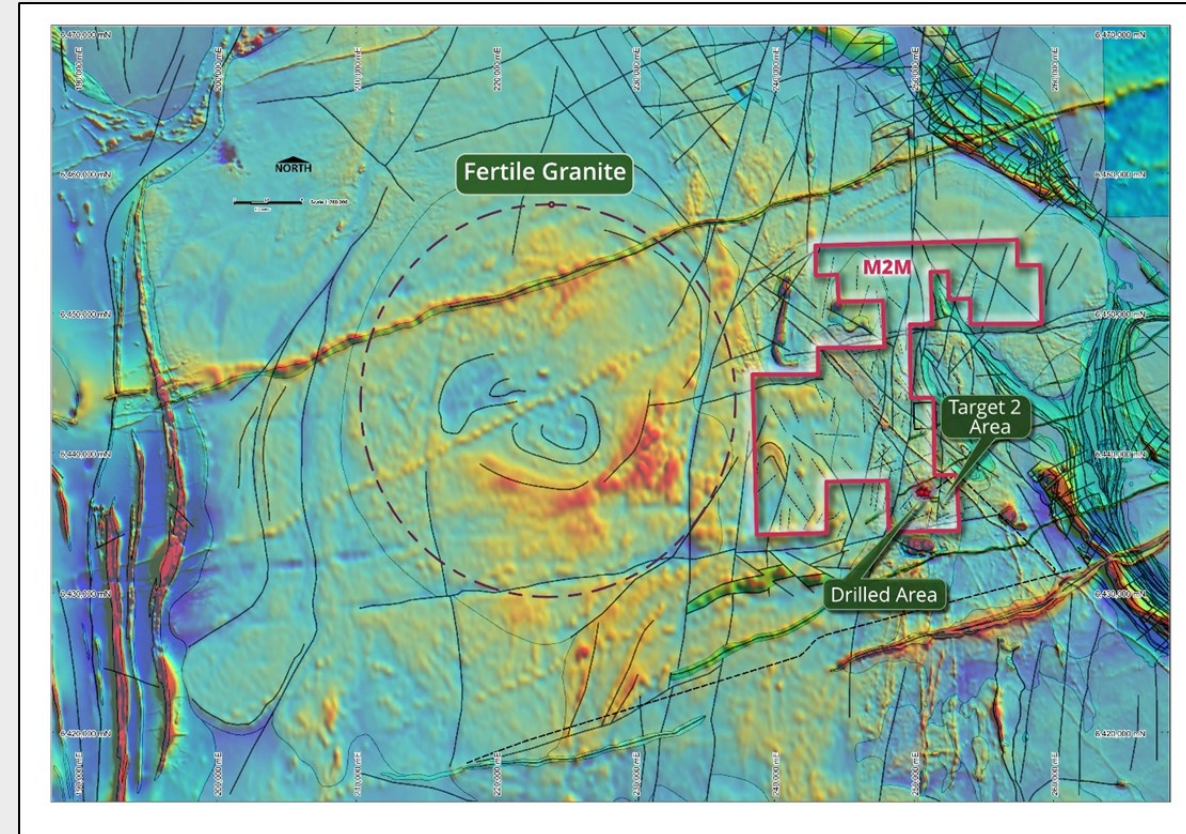
IP anomaly
open





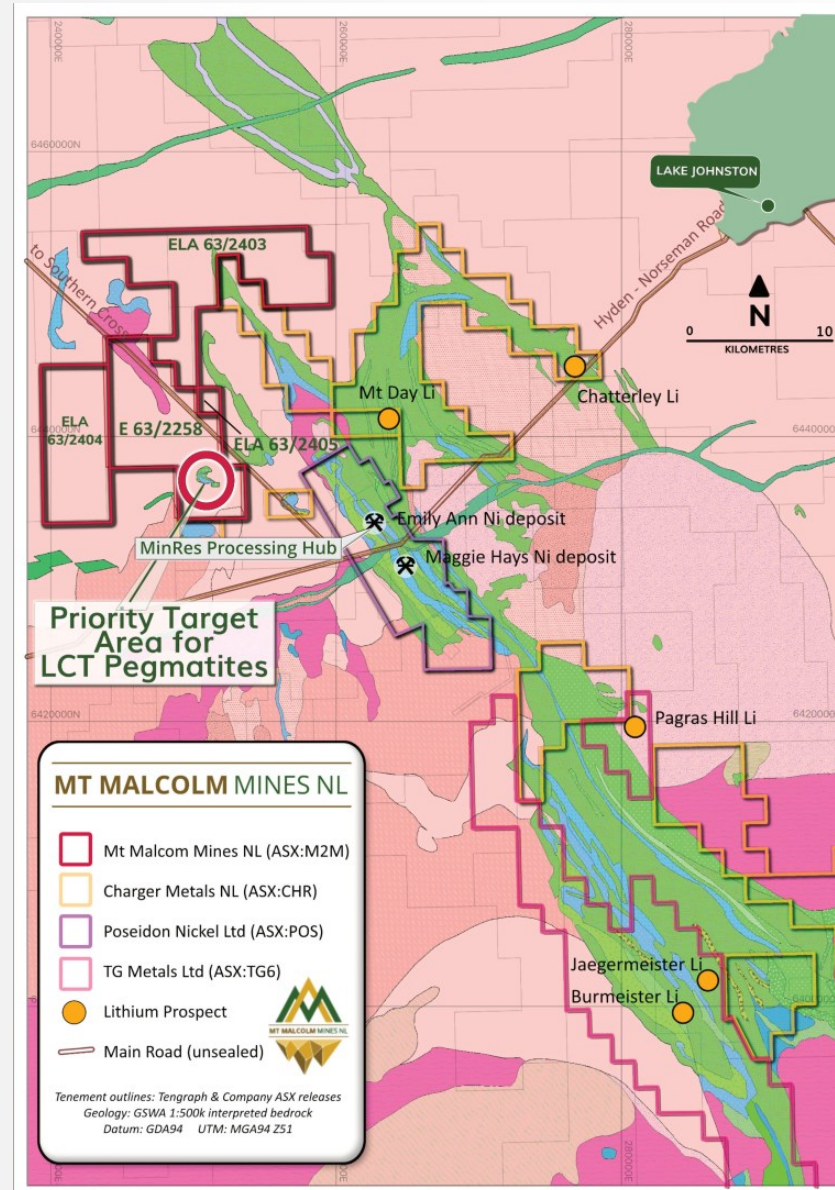
200km² of prospective land in the Lake Johnston area

- Located (Dundas Mineral Field, 450km east of Perth) in the Emerging lithium "hot spot" with recent successes in the area
- Fitting to the 'Goldylocks' Geological model- Proximity to fertile granitic domes and greenstone contacts
- Historical drill logs confirming pegmatite occurrences
- Re-logging of collected spoil samples indicates extensive pegmatite occurrences.
- Limited historical exploration



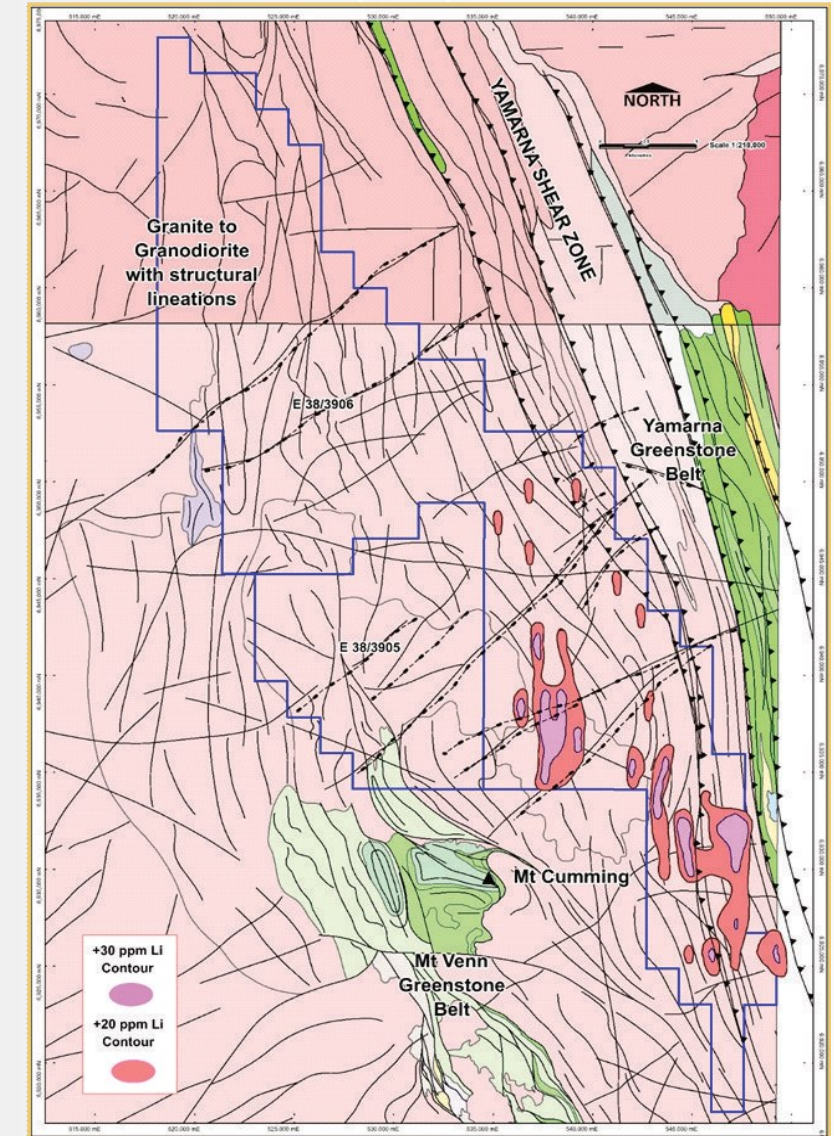
Lithium "Hot Spot", Strong Nearology

- 60km east of the well-known Earl Grey (Mt Holland), with a total Mineral Reserve of 186 Mt @ 1.53 % Li₂O, one of the largest undeveloped hard rock lithium bearing pegmatite projects in Australia
- TG6 discovery of high-grade lithium mineralisation at their nearby Burmeister Li prospect
- Charger Metals Ltd (ASX:CHR) and Rio Tinto Exploration Pty Ltd ("RTX"), agreement for the Lake Johnston Lithium Project
- MINRES upcoming Lithium Processing Hub in the area (Poseidon Nickel concentrator plant acquisition)



Promising Geology and Existing Target

- Two large lithium anomalies defined in historic multi element soils data
- The presence of Neo-Archaeon granites in contact with greenstone belts and complex and large structures are proven sign of an optimal geological environment for lithium deposition
- The GSWA Throssel 1:250,000 mapping notes describes abundant pegmatites around the area. Initial on ground reconnaissance confirms the presence of significant pegmatite swarms
- Building on the geological context, our next strategic plan includes systematic geological mapping and soil sampling





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