



**MIRAMAR**  
RESOURCES LTD.

# Gold and Critical Minerals Exploration

Gold Coast Investment Showcase  
19-20 June 2024

Au

Cu

Ni

[miramarresources.com.au](https://miramarresources.com.au) | ASX: M2R



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# Disclaimer/Competent Person Statement

## Forward-Looking Statements

Statements in this presentation which are not statements of historical facts, including but not limited to those relating to the proposed transactions, are forward-looking statements. These statements instead represent management's current expectations, estimates and projections regarding future events.

Although management believes the expectations reflected in such forward-looking statements are reasonable, forward-looking statements are based on the opinions, assumptions and estimates of management at the date the statements are made and are subject to a variety of risks and uncertainties and other factors that could cause actual events or results to differ materially from those projected in the forward-looking statements. Accordingly, investors are cautioned not to place undue reliance on such statements.

## Competent Person Statement

The information in this report that relates to Exploration Targets or Exploration Results is based on information compiled by Allan Kelly, a "Competent Person" who is a Member of The Australian Institute of Geoscientists. Allan Kelly is the Executive Chairman of Miramar Resources Ltd. He is a full-time employee of Miramar Resources Ltd and holds shares and options in the company.

Allan Kelly has sufficient experience that is relevant to the style of mineralisation and type of deposits 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'. Allan Kelly consents to the inclusion in this presentation of the matters based on his information and in the form and context in which it appears.

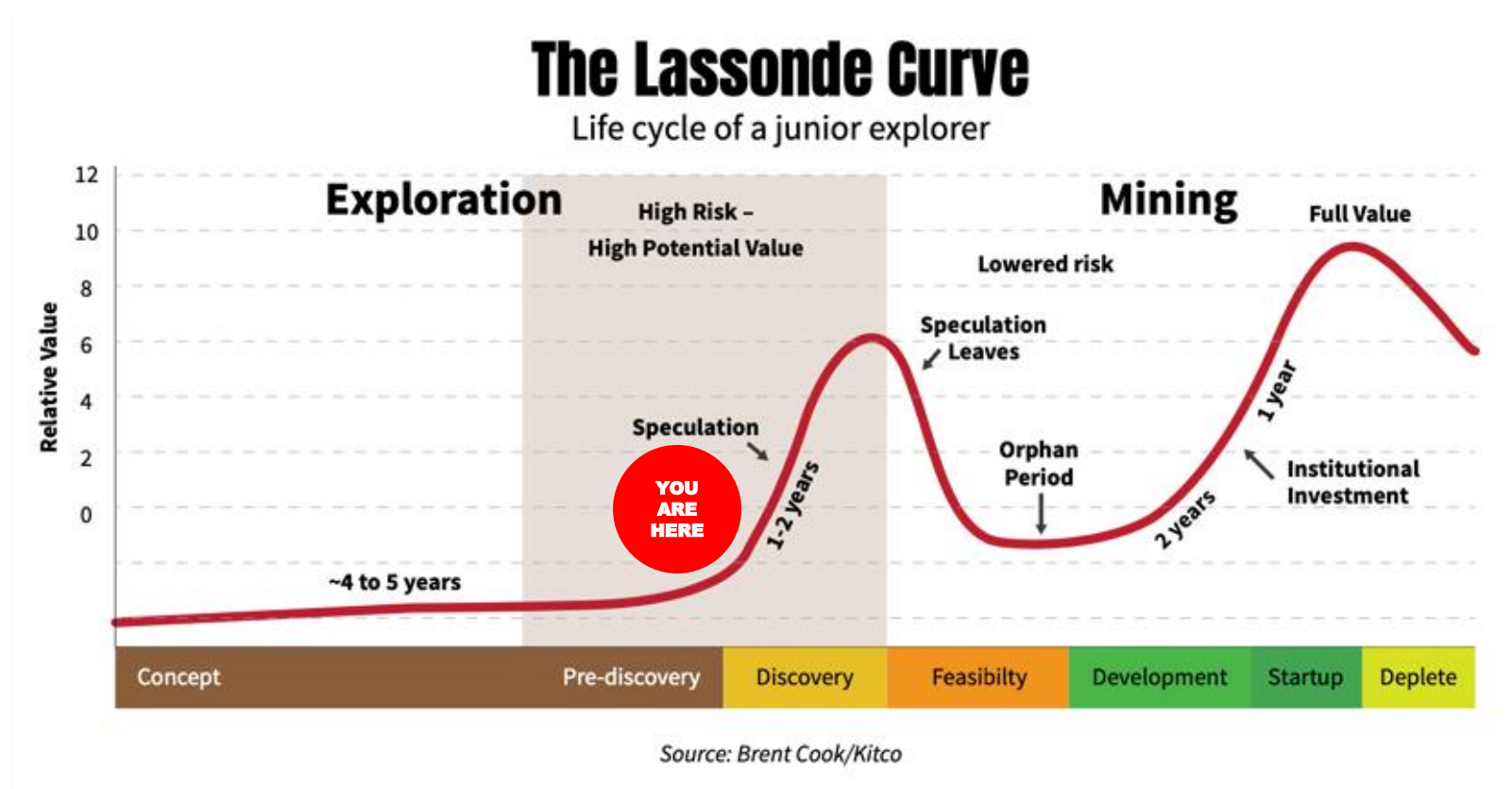
Information on historical results for all projects within this presentation, including JORC Table 1 and 2 Information, is included in the Miramar Resources Limited Prospectus dated 4 September 2020.

JORC Table 1 and 2 Information for Miramar results for all projects within this presentation are included in the relevant ASX releases.

# Aim: To create shareholder value through discovery

## Strategy

- Explore for in-demand commodities
- Acquire **underexplored projects** in world-class mineral provinces
- Systematic exploration** using best practise
- Maximise exploration spend** including through EIS grants and R/D refunds
- Leverage off **existing mining /processing infrastructure**





Au

Cu

Ni

# Our key assets

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Project	Gidji JV	Bangemall	Whaleshark
Location	15km N of Kalgoorlie	Gascoyne region	40km E of Onslow
Target Commodity	Gold	Ni-Cu-Co-PGE's	Copper Gold Magnetite
Deposit Examples	Paddington	Nova Nebo-Babel Norilsk	Ernest Henry
Existing Infrastructure	Yes	No	Yes





# Strategic landholding in WA's Eastern Goldfields



636km<sup>2</sup> land position in world-class gold province

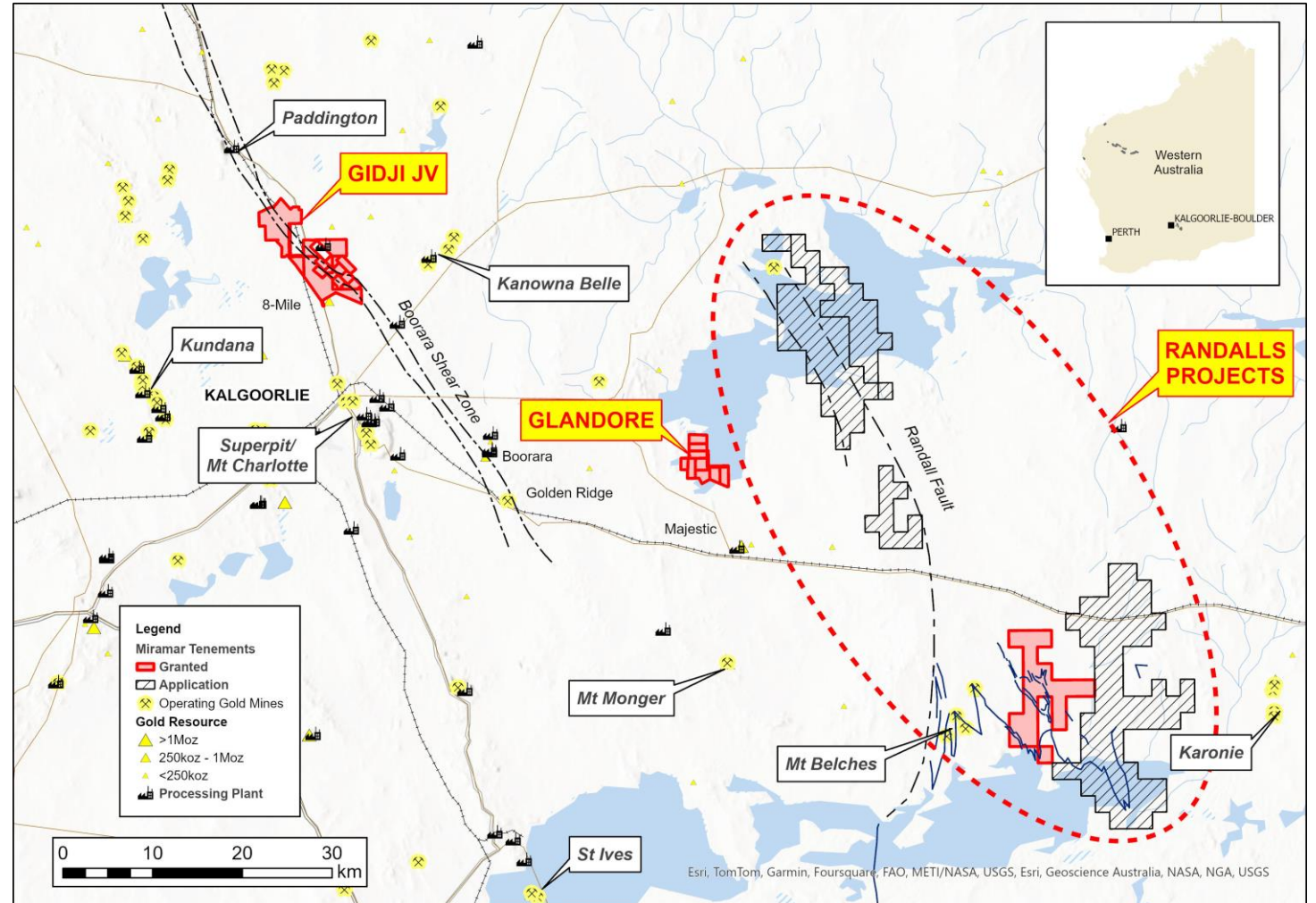


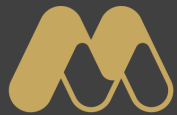
Underexplored camp-scale gold projects

- **Gidji JV (80%)**
- **Glandore**
- **Randalls**



Proximity to multiple gold mining and processing operations





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# Gidji JV

Potential for a new gold camp



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Au



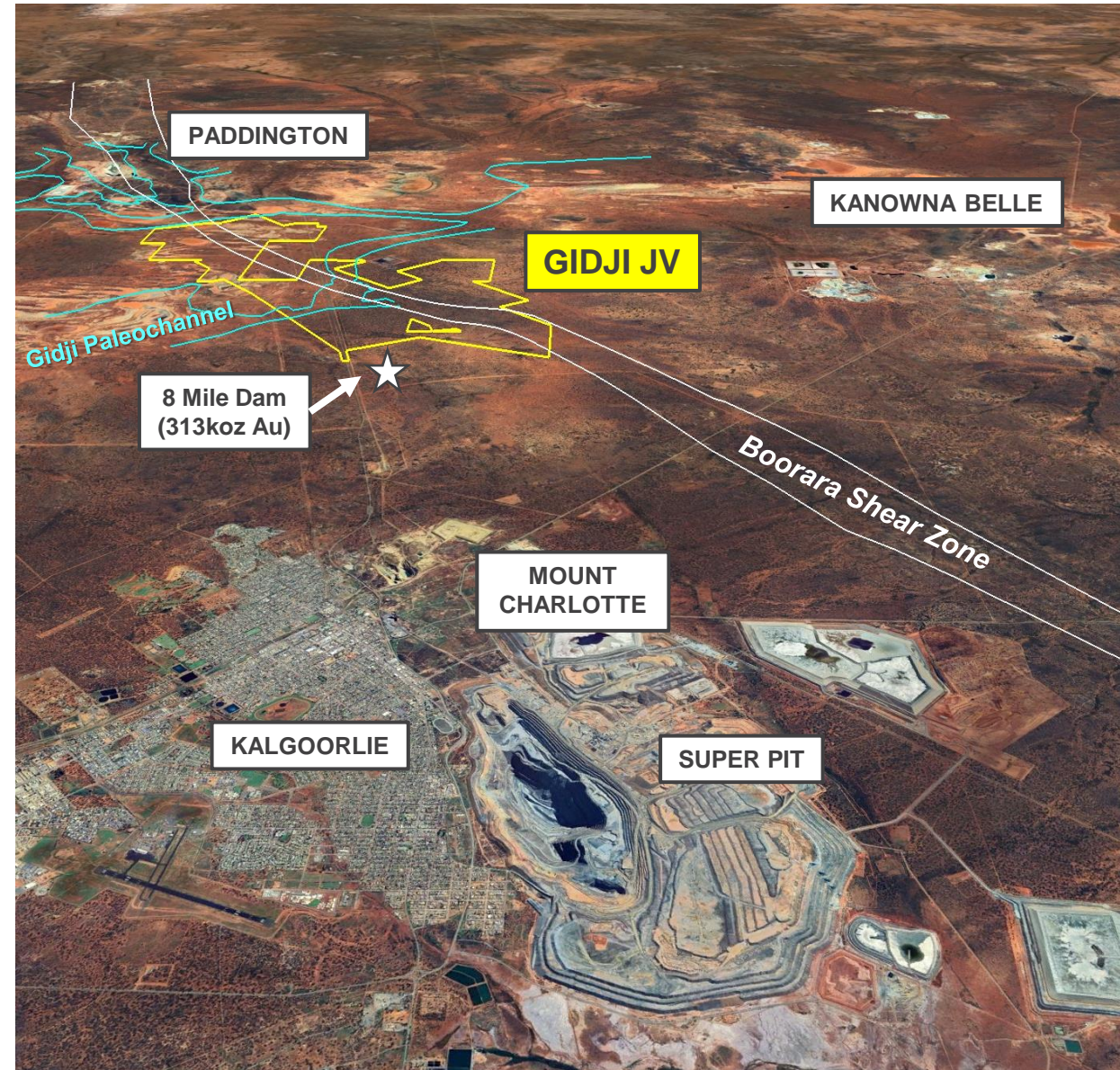
# Gidji JV

*“The cheapest house in the best street”*

- 15km N of Kalgoorlie via major highway
- Surrounded by multiple major gold deposits and gold processing plants
- Immediately adjacent to “8 Mile Dam” deposit

## Key ingredients for a new gold camp

- ✓ Dilational jog in major mineralised structure – **Boorara Shear Zone**
- ✓ **Underexplored** due to transported cover and Gidji Paleochannel
- ✓ Limited effective historical drilling
- ✓ **Extensive gold footprint**



# Gidji JV – exploration model

*"Boorara Shear Zone"*

Paddington Dolerite  
Panglo Dolerite

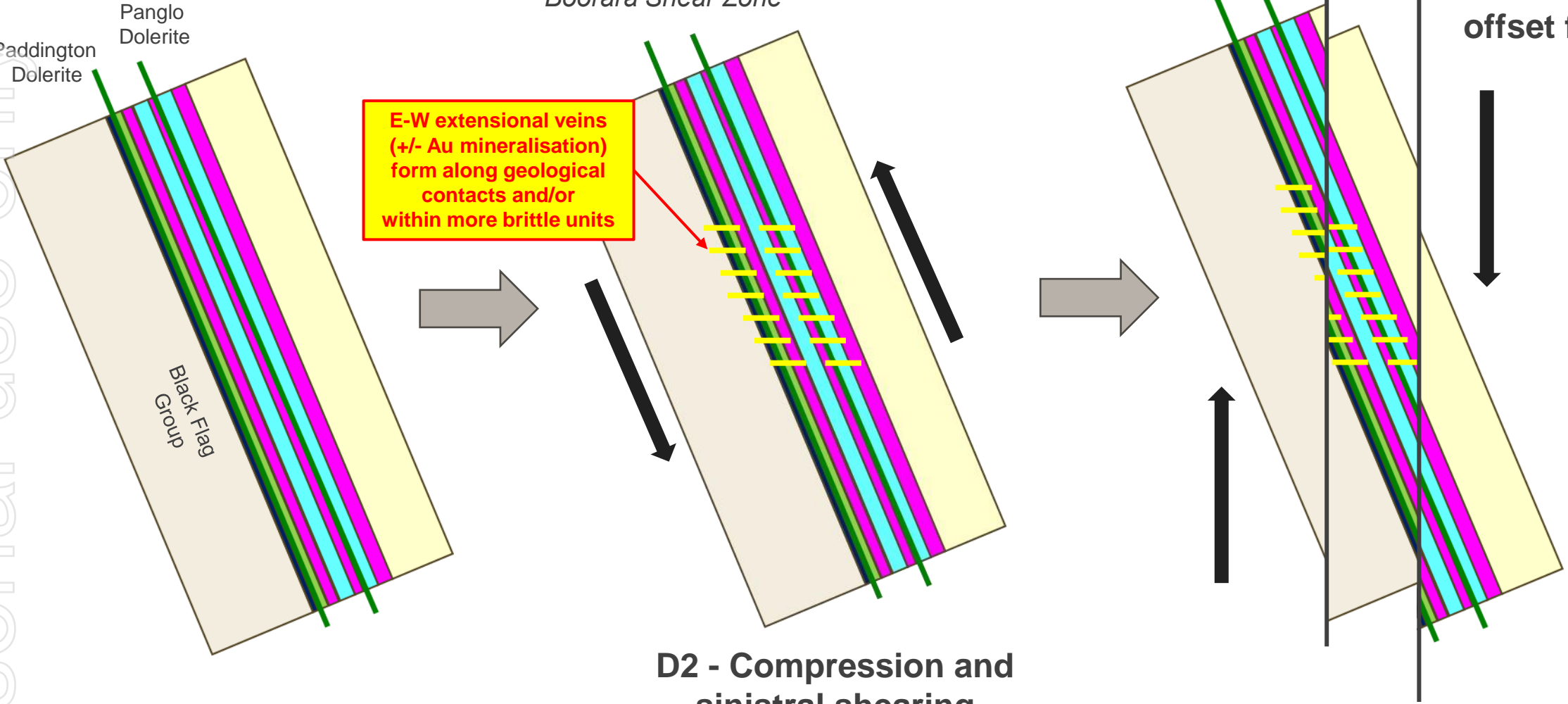
Black Flag Group

E-W extensional veins (+/- Au mineralisation) form along geological contacts and/or within more brittle units

D4 – N-S brittle offset faults

D2 - Compression and sinistral shearing

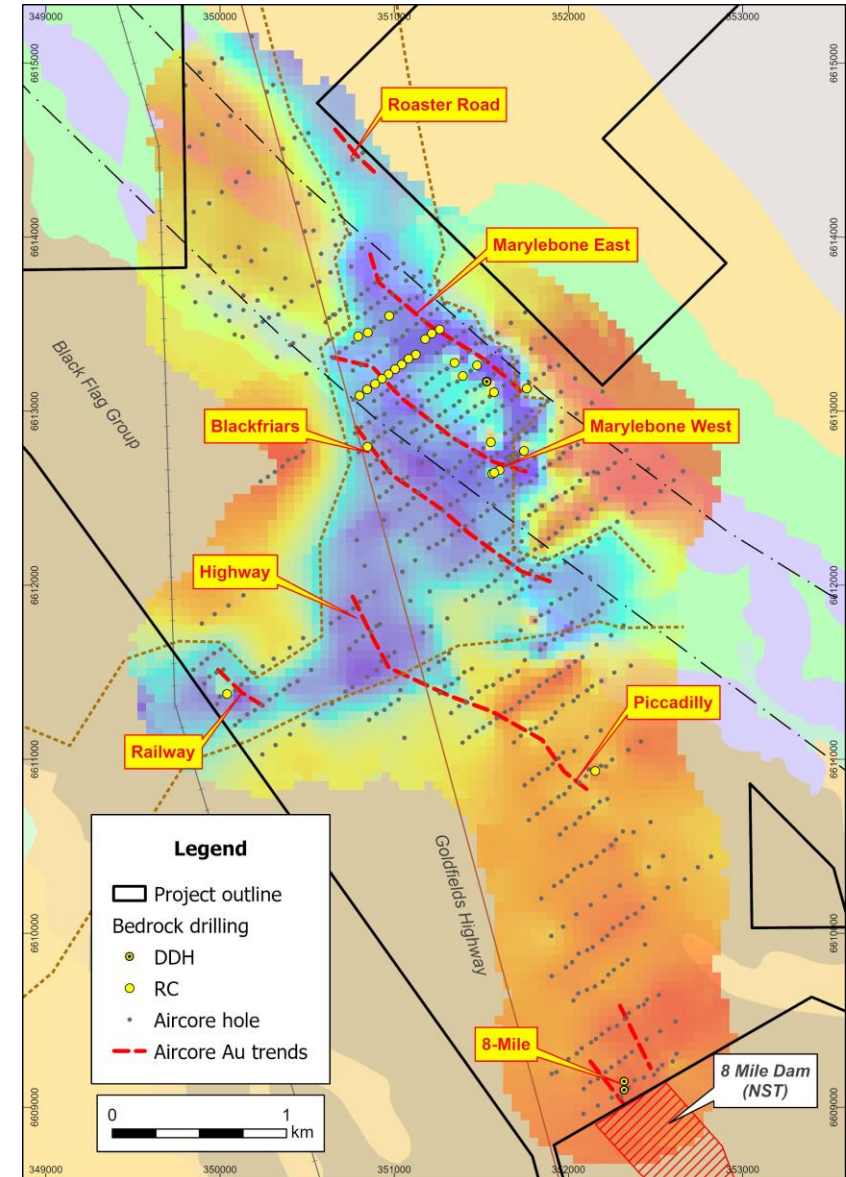
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# Gidji JV

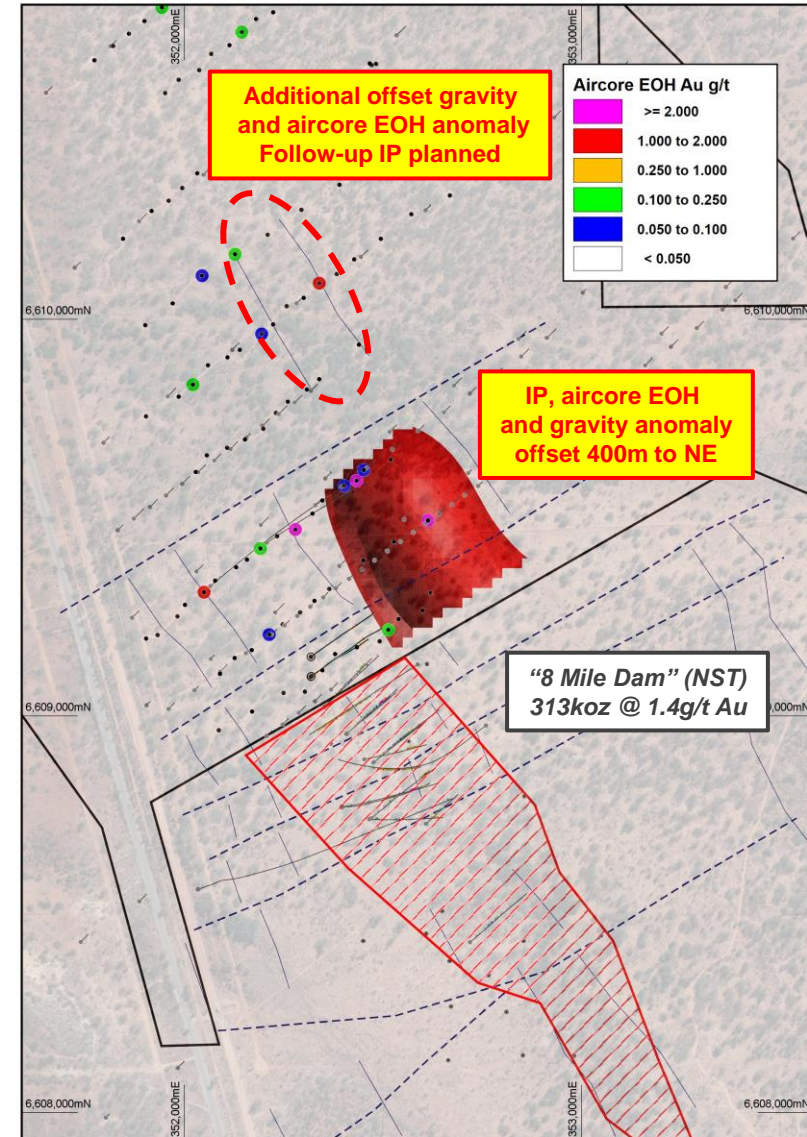
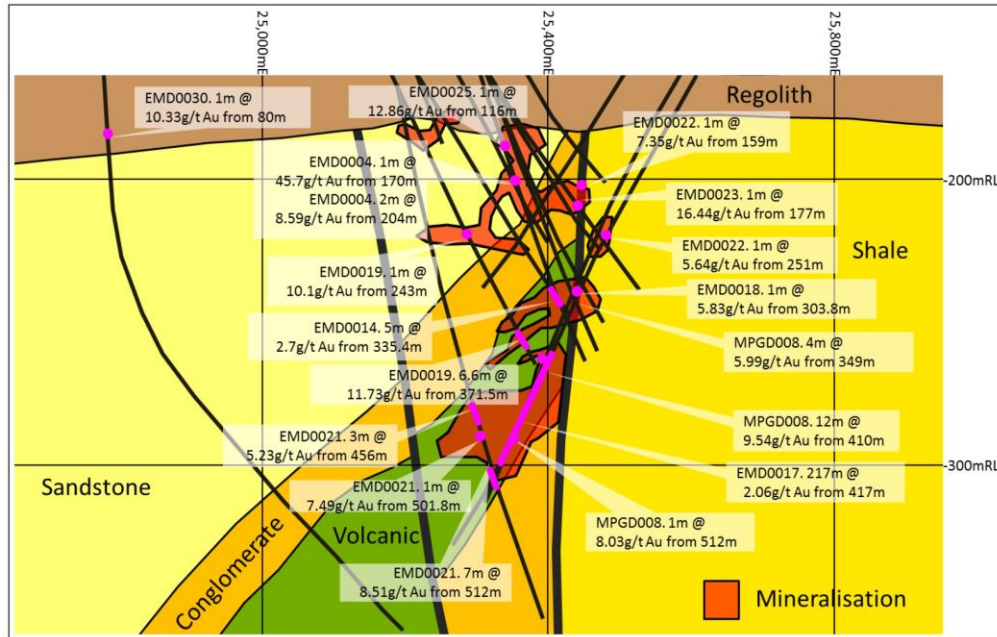
- **15km strike of Boorara Shear Zone – host to multiple significant gold deposits**
  - Paddington (>2Moz)
  - Boorara/Golden Ridge (450koz)
- **Aircore drilling has outlined multiple new +1km long gold zones under Gidji Paleochannel**
  - Marylebone
  - Blackfriars
  - Highway-Piccadilly
- **Key bedrock targets identified for follow-up**
  - 8-Mile
  - Blackfriars
  - Marylebone



# 8-Mile

## Potential extension to “8 Mile Dam” deposit

- Aircore EOH results, gravity and IP data highlight bedrock targets offset by NE faults
- Follow-up IP and bedrock drilling planned





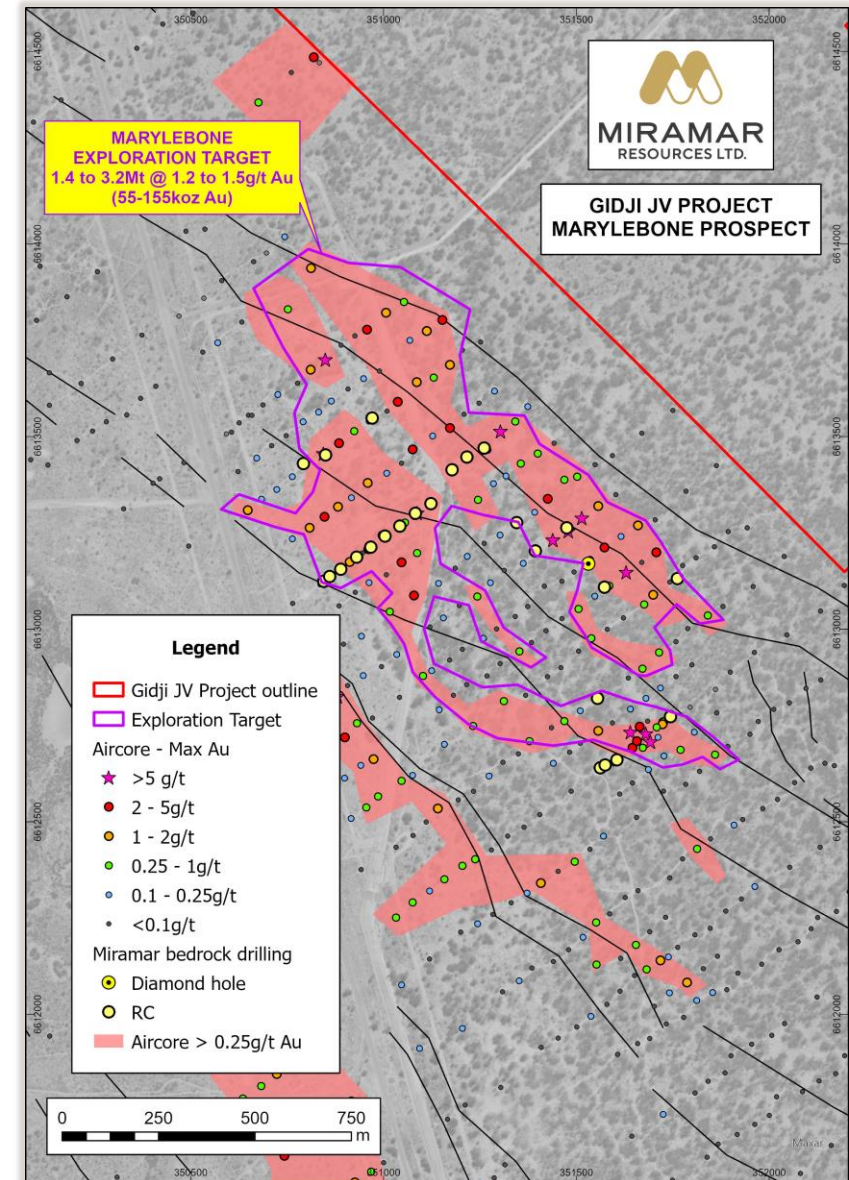
# Marylebone

## Large gold footprint beneath paleochannel

- Mafic-U/M-sediments in Boorara Shear Zone
- Multiple high-grade aircore gold results
- JORC “Exploration Target” outlined from shallow aircore drilling
  - 1.4 – 3.2Mt @ 1.2 – 1.5g/t Au
  - **(55 – 155koz contained Au)**
- Further bedrock drilling planned

### Cautionary Statement:

The Exploration Target has been prepared and reported in accordance with the 2012 edition of the JORC Code. The potential quantity and grade are conceptual in nature and there has been insufficient exploration to estimate a Mineral Resource. It is uncertain if further exploration will result in the estimation of a JORC- compliant Mineral Resource



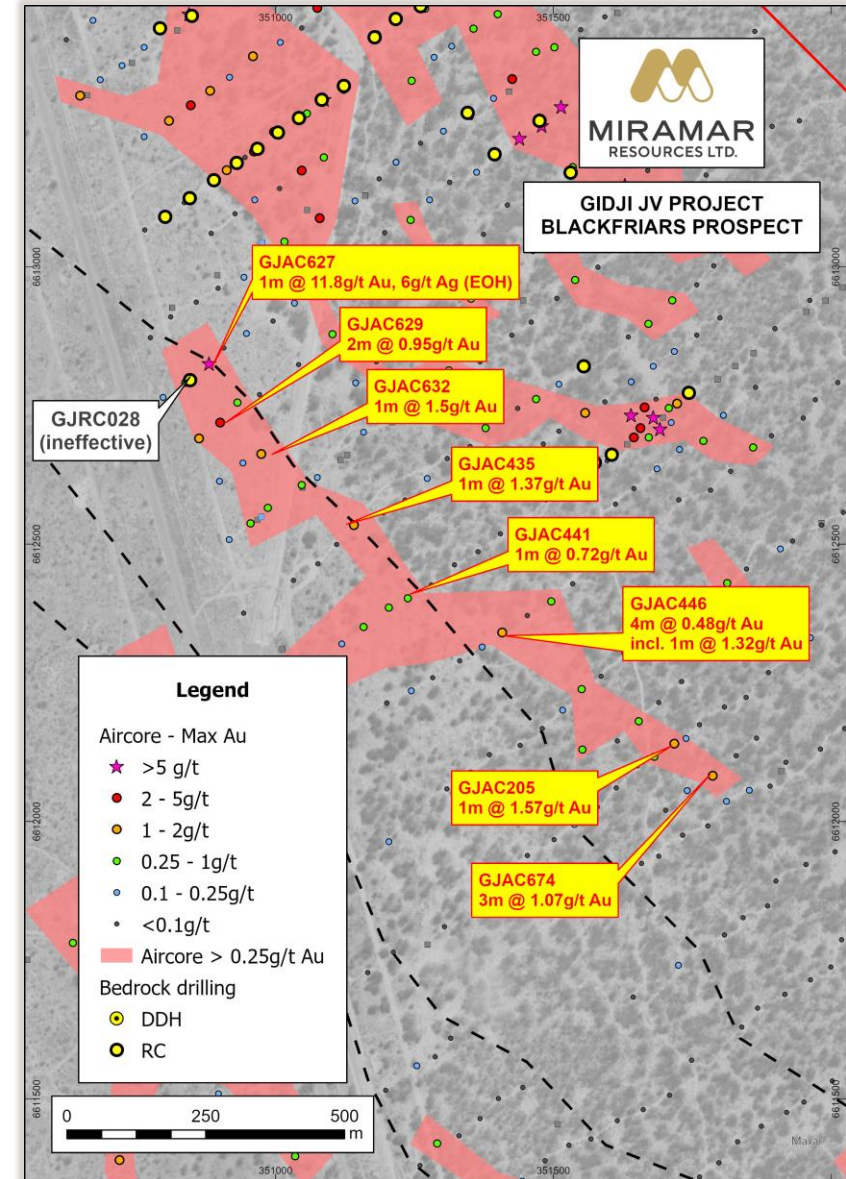
# Blackfriars

## “Paddington lookalike” target

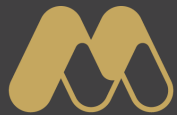
- Dolerite at Black Flag/mafic contact
- 1km long aircore anomaly >1g/t Au
  - **GJAC627– 1m @ 11.8g/t Au, 6g/t Ag (EOH)**
  - **GJAC674 – 3m @ 1.07g/t Au**
- Further drilling planned

**GJAC627**  
1m @ 11.8g/t Au, 6g/t Ag (EOH)

**GJRC028**  
120-121m







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# Bangemall

A potential new Ni-Cu Province

Ni

Cu



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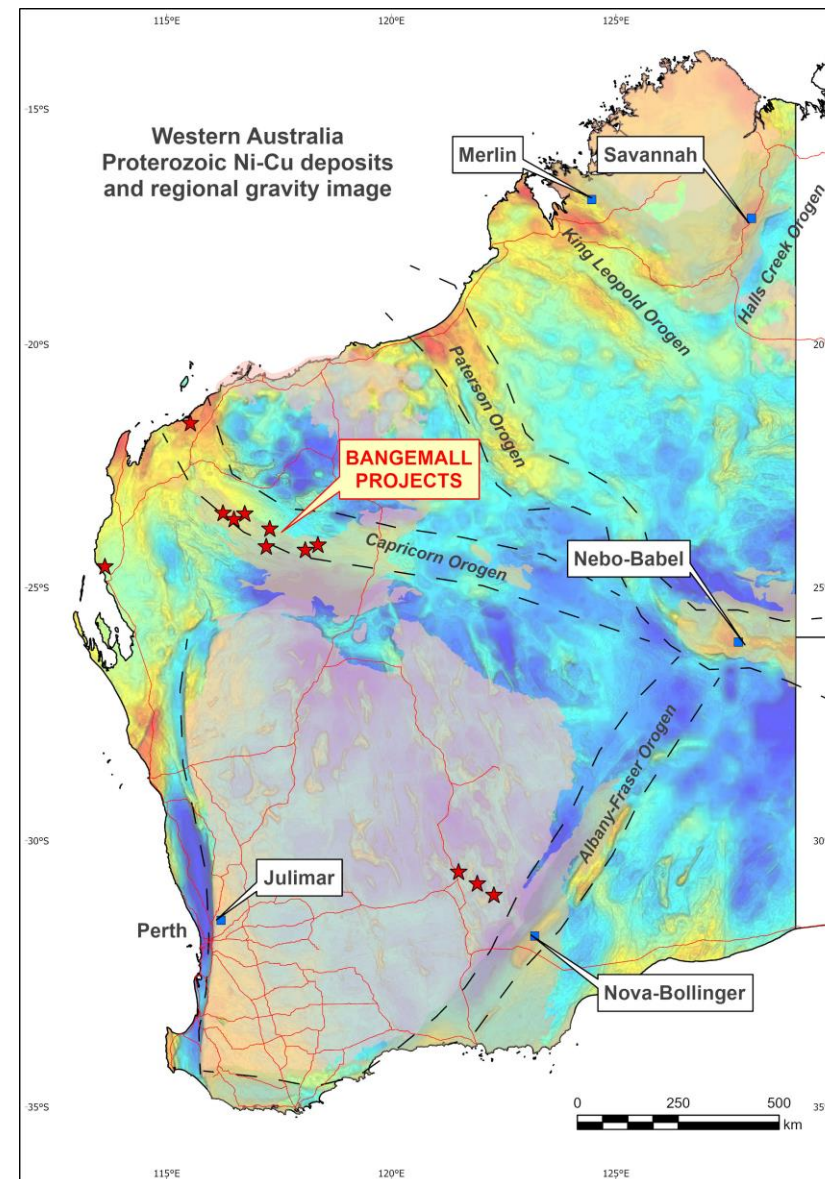


# Bangemall Projects

Miramar is exploring for Norilsk-style Ni-Cu-Co-PGE mineralisation in the underexplored Proterozoic Capricorn Orogen

Proterozoic orogens host large mafic intrusion-related Ni-Cu-Co-PGE deposits

- Nova-Bollinger
- Nebo-Babel
- Savannah/Merlin
- Raglan
- Thompson
- Voisey Bay
- Jinchuan





**Q: Why explore for nickel in the current market?**

**A: Because not all nickel deposits are created equal!**

**Mafic intrusion-hosted Ni-Cu-Co-PGE deposits are:**

✓ **Large**

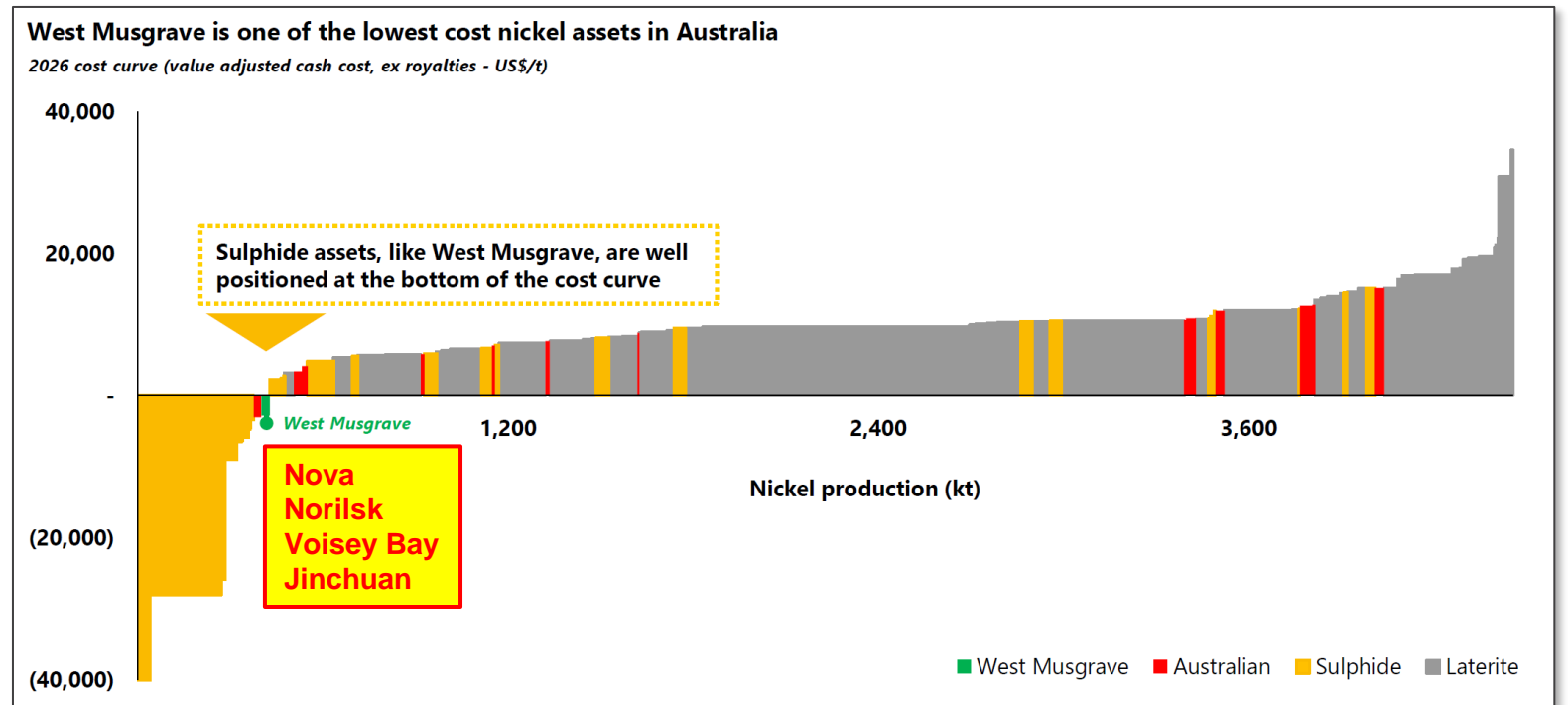
- 100's Mt to >1Bt of ore
- 0.1Mt to >1Mt of Nickel

✓ **Valuable**

- High-grade/tenor

✓ **Low-cost/high-margin**

- High tonnes/vertical metre
- By-product credits



Source: OZ Minerals Sept 2022

# Bangemall - potential for a new Ni-Cu Province

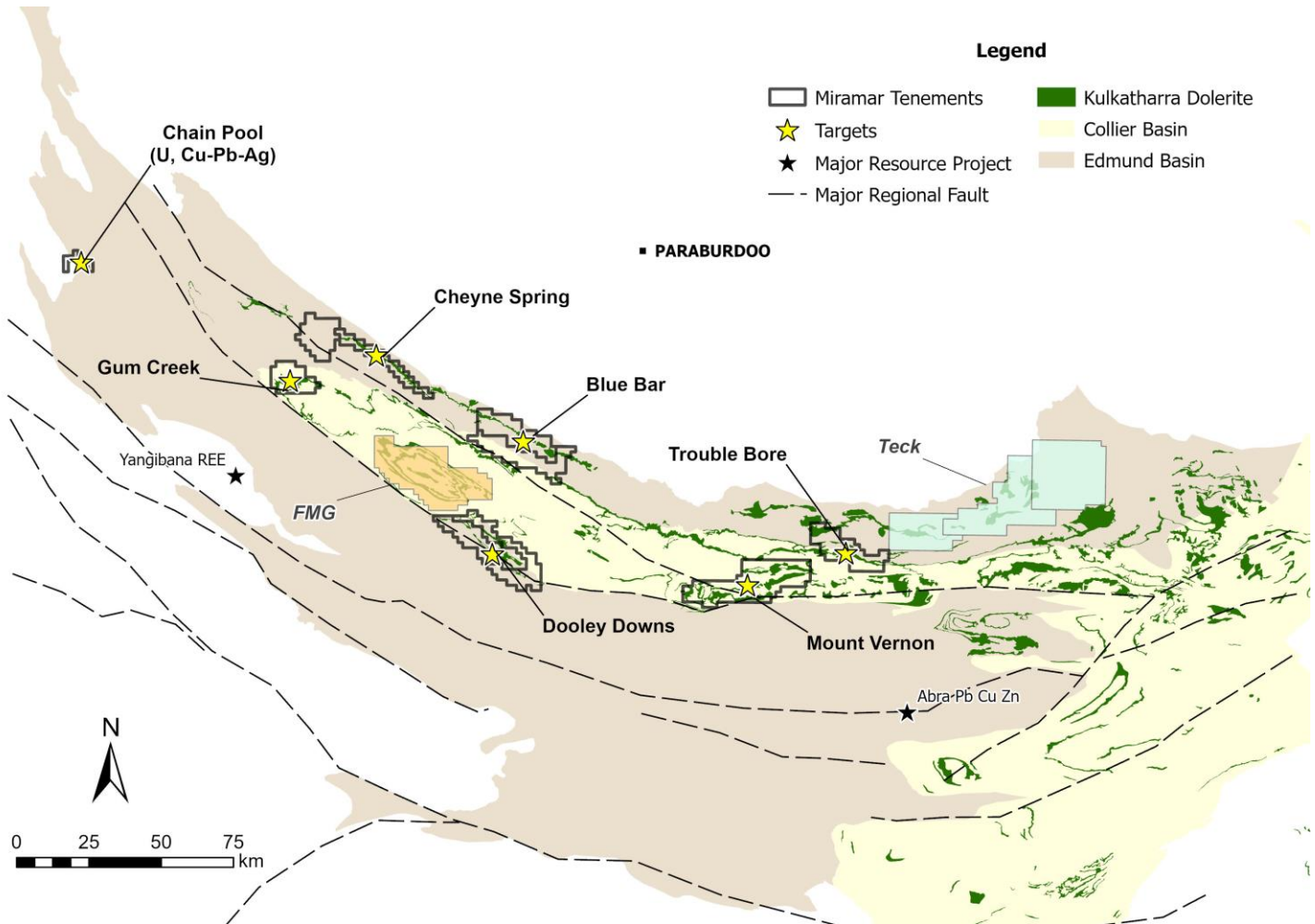
Prospectivity recognised by  
GSWA, CSIRO and Geoscience  
Australia

Key ingredients for Norilsk-style  
Ni-Cu-Co-PGE deposits

- ✓ Kulkatharra Dolerite sills – same age as **Nebo-Babel**
- ✓ Major crustal-scale faults - potential plumbing systems
- ✓ Sulphide/sulphate-rich sediments – sulphur source
- ✓ Regional geochem/EM anomalies

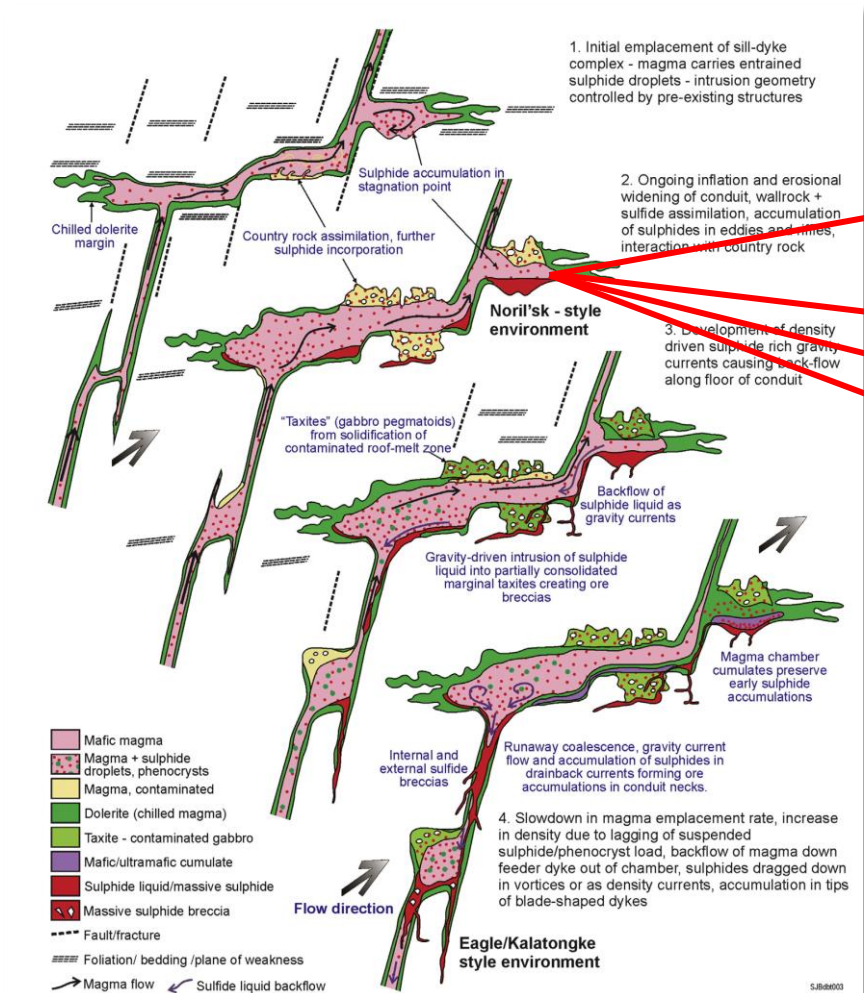
**District-scale landholding**

- First mover status
- 2,000km<sup>2</sup> land position

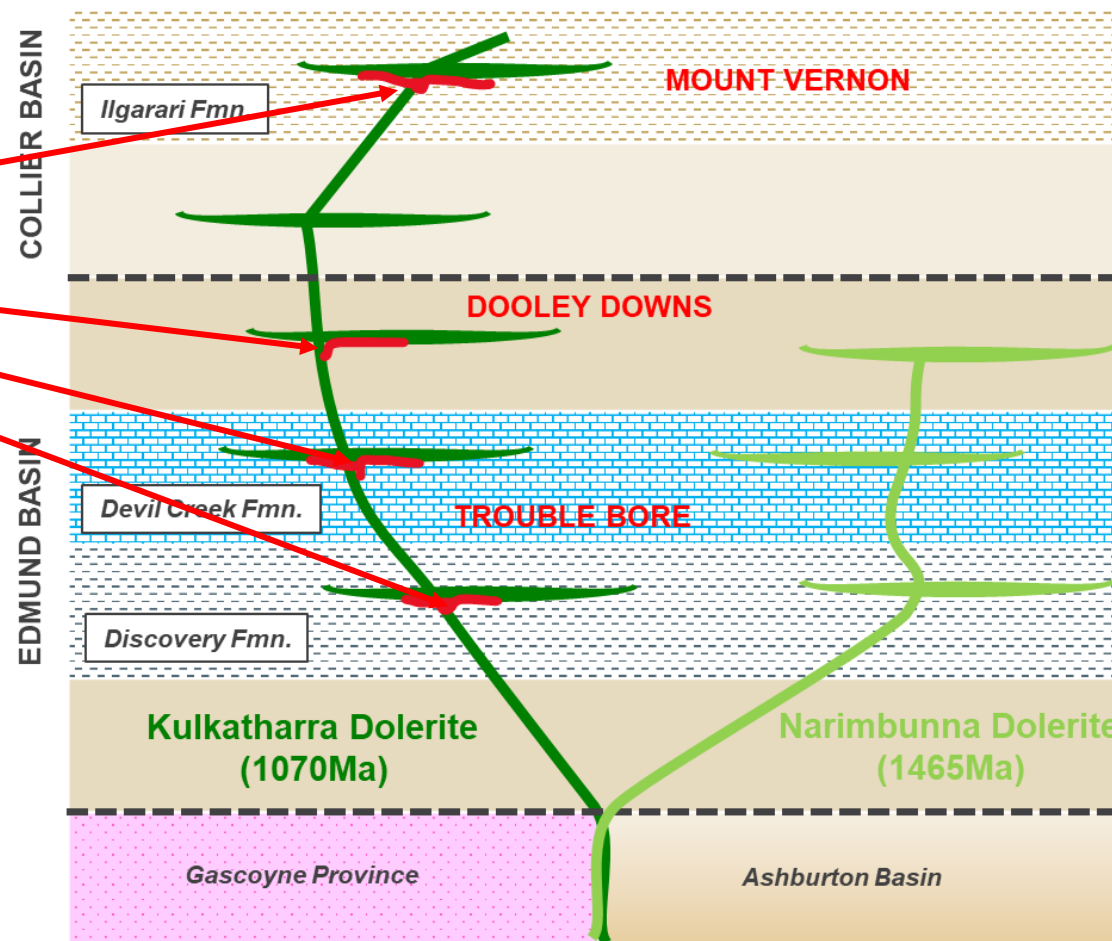




# Norilsk-style Ni-Cu-Co-PGE deposit model



Barnes et al, 2015



# Bangemall – exploration progress

2020

- Initial tenement applications

2021

- Mount Vernon granted
- Dooley Downs granted
- Rock chip sampling

2022

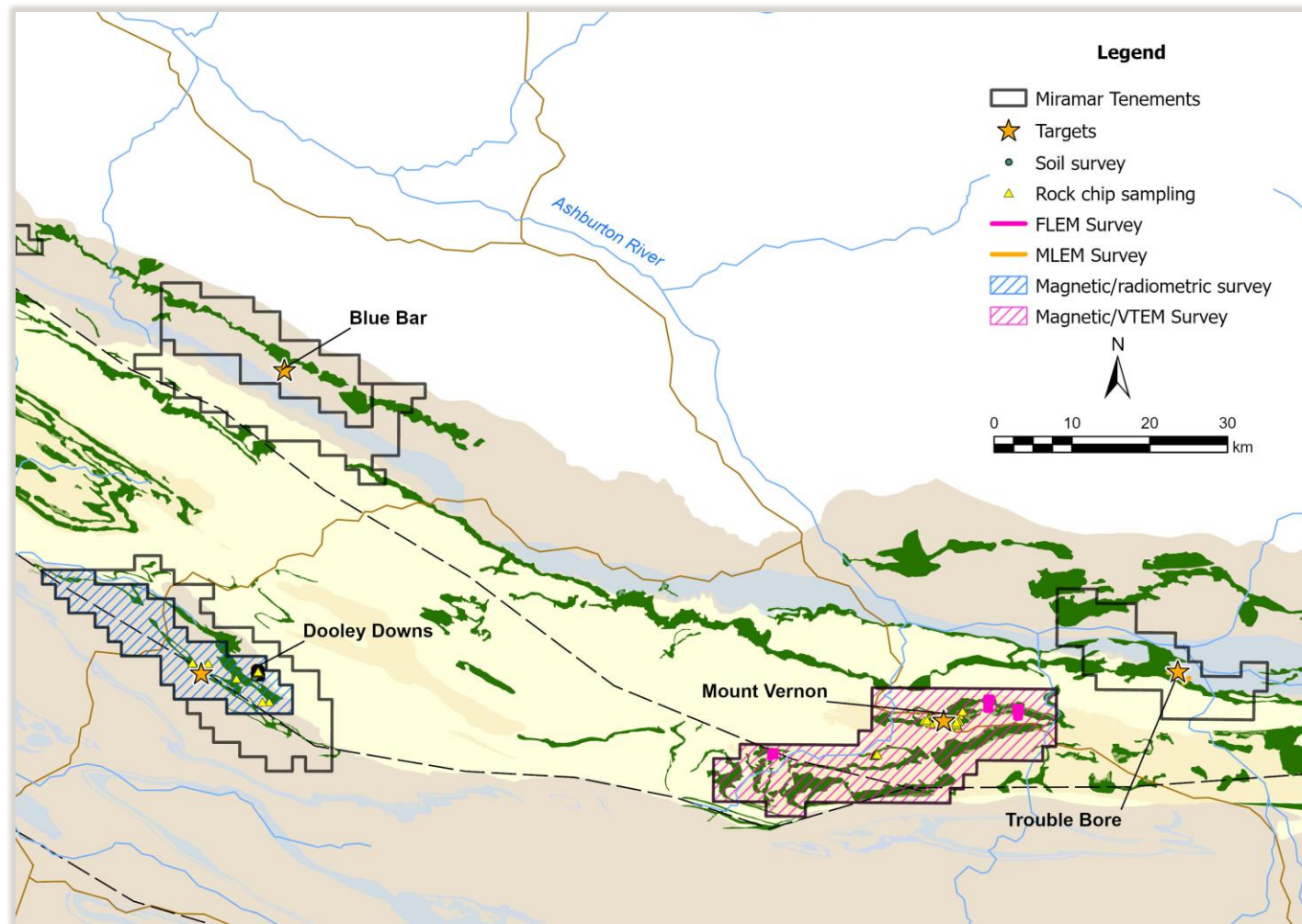
- Mt Vernon Magnetic/VTEM survey
- Dooley Downs Mags/radiometrics
- Rock chip/soil sampling

2023

- Trouble Bore granted
- Mount Vernon POW Approval
- Rock chip sampling

2024

- Mt Vernon/Trouble Bore ground EM
- \$180K EIS Grant
- Trouble Bore POW Approval
- **RC DRILLING PROGRAMME – SEPT QTR**





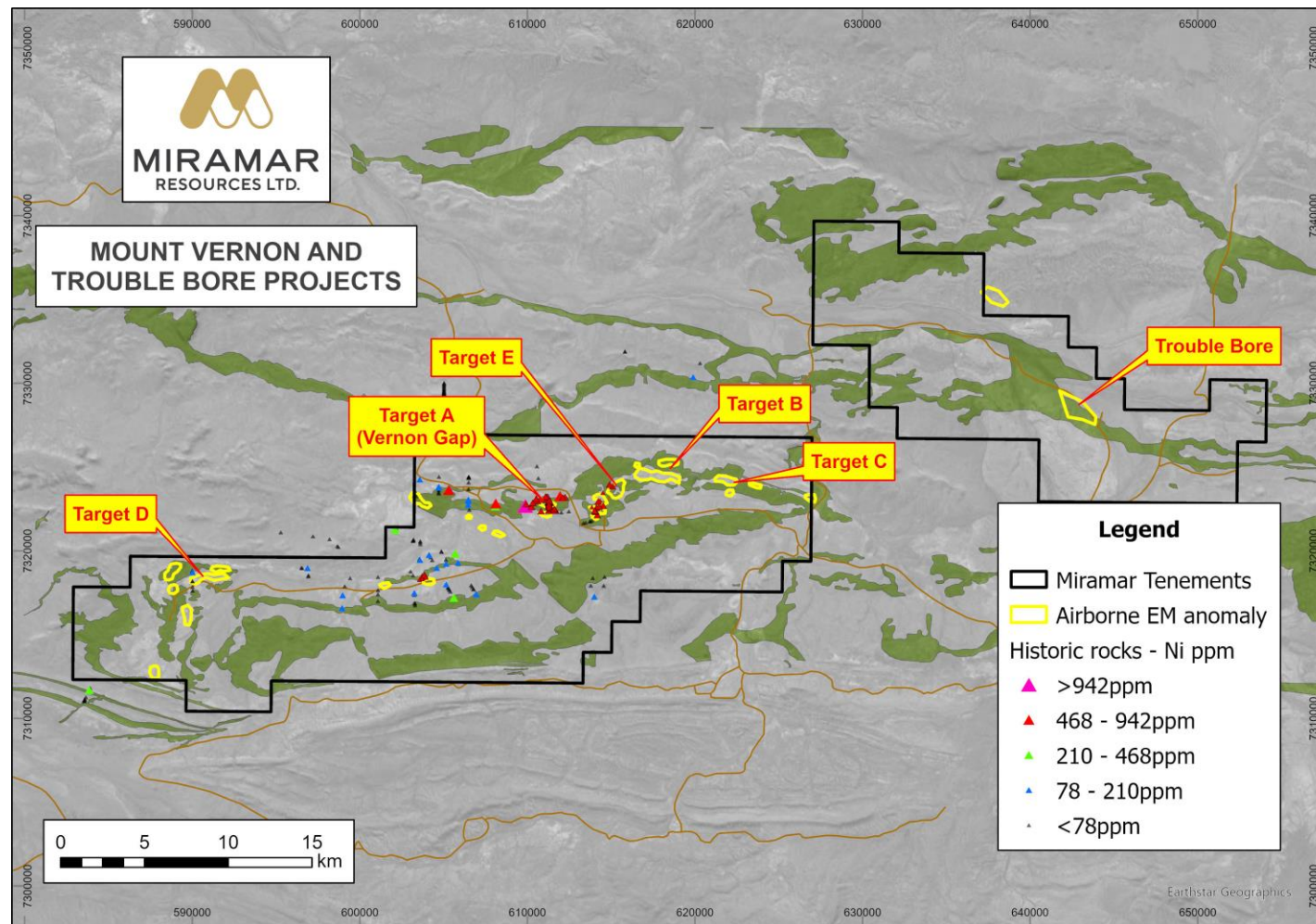
# Mount Vernon and Trouble Bore Targets

- Outcropping sulphides
- Airborne and ground EM conductors
- \$180K EIS funding
- POW approvals
- RC Drilling scheduled for Sept Quarter 2024

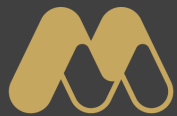


Dolerite

Siltstone







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# Whaleshark

Multi-commodity project in an  
infrastructure-rich area

Cu

Au

Fe

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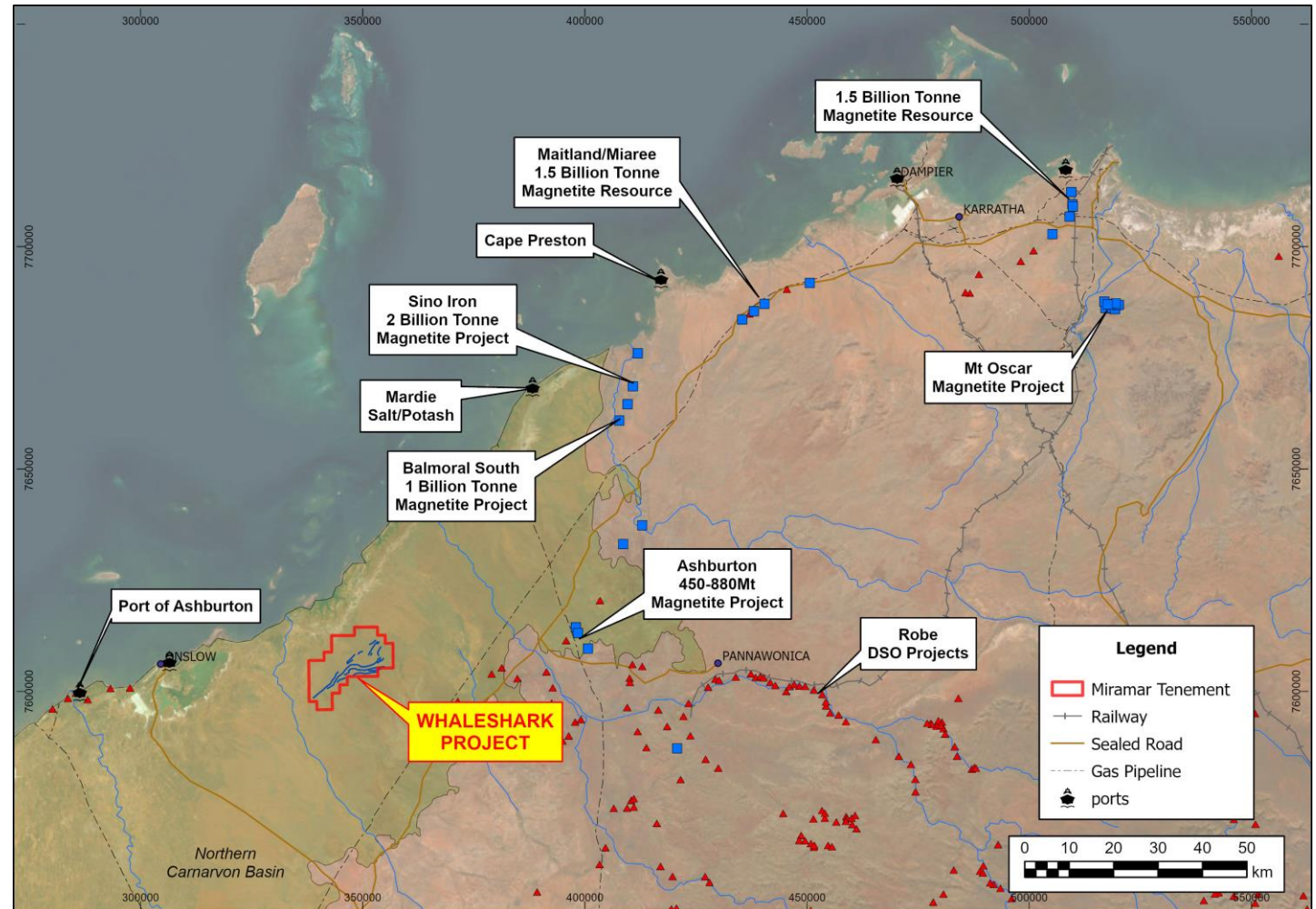
# Whaleshark

## Multi-commodity potential

- Gold
- Copper-Gold
- Magnetite iron

## Infrastructure-rich area

- Major highway
- Dampier-Bunbury Natural Gas Pipeline
- Port facilities
- Multiple DSO hematite and magnetite mines/processors



# Whaleshark – multi-commodity potential

## Gold

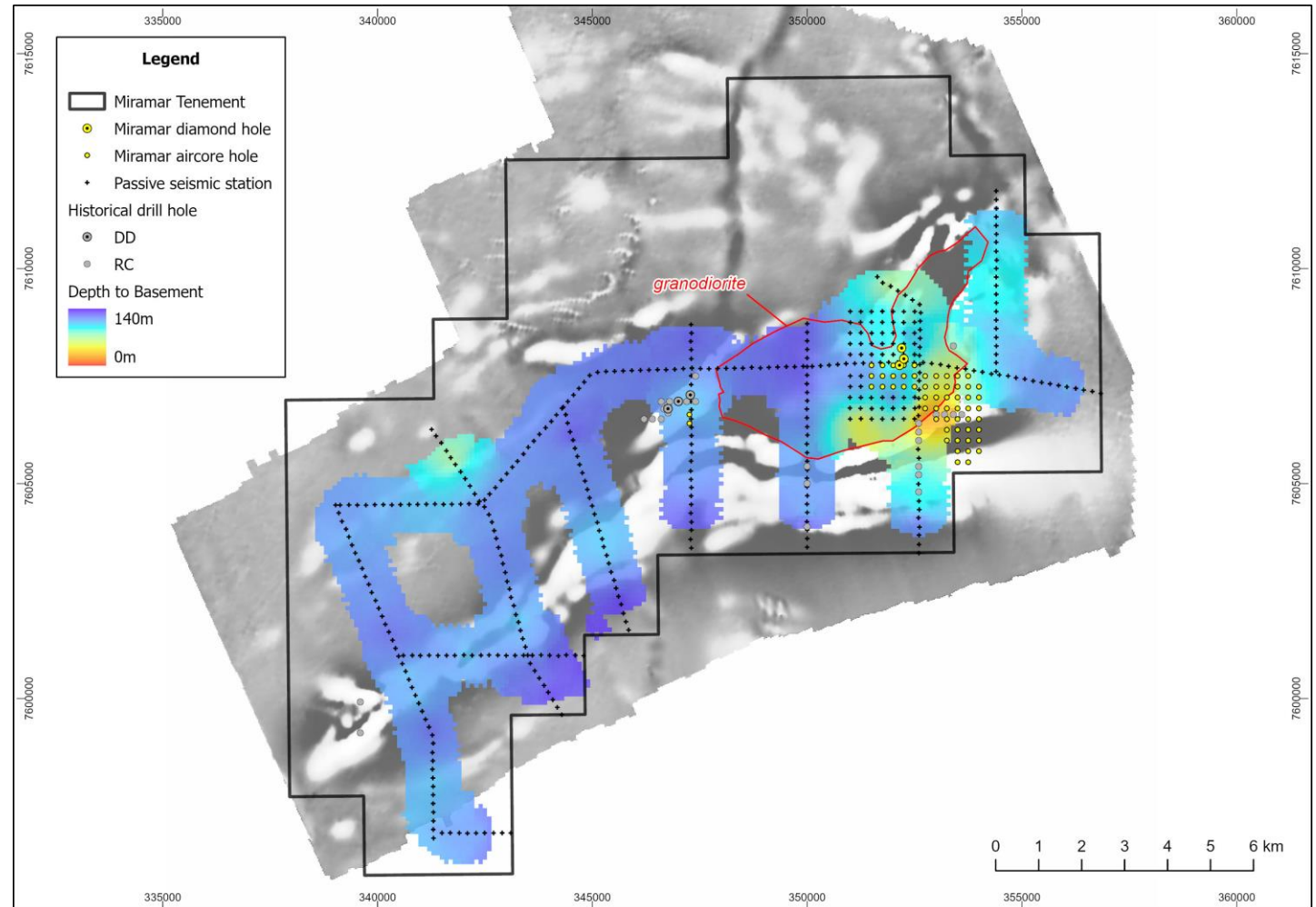
- Historic diamond drilling intersected gold in BIF
- Multiple structural and/or geochemical targets

## Copper-Gold

- IOCG** pathfinders in MMI soils and shallow aircore drilling
- Copper sulphides** intersected in 2023 diamond drilling

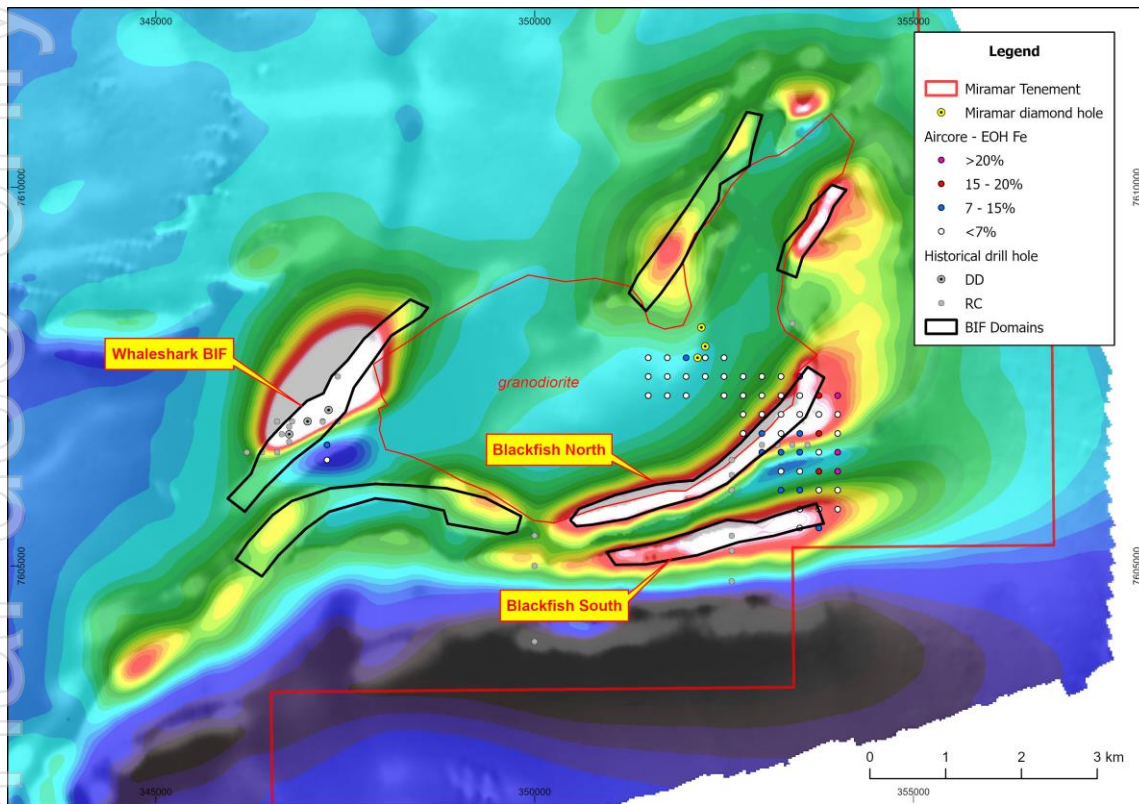
## Magnetite

- Large shallow magnetite BIF's





# Significant magnetite Exploration Target\*

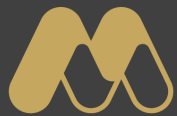


Domain	Tonnage Range (Mt)		Grade Range (Fe %)	
	Lower	Upper	Lower	Upper
Whaleshark	128	384		
Blackfish North	158	1,050		
Blackfish South	126	919		
<b>TOTAL (Mt)</b>	<b>411</b>	<b>2,353</b>	<b>25</b>	<b>30</b>

## Cautionary Statement:

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\*See ASX Release dated 19 June 2024



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# Summary



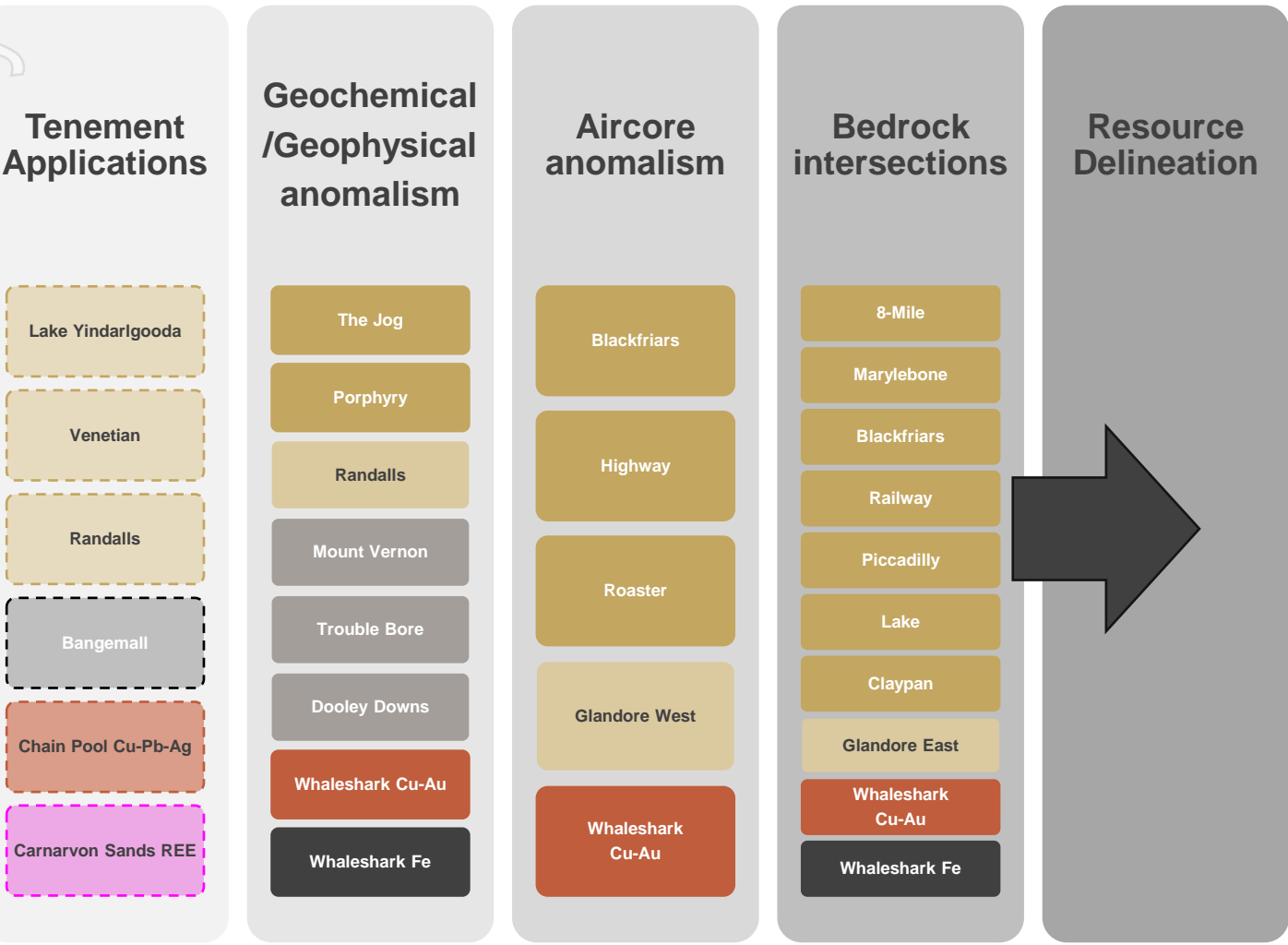
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Au



# Extensive Target Pipeline

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# Experienced Board



**Allan Kelly**  
*Executive Chairman*

- 30 years' exploration-development-production experience
- **Founding MD, Doray Minerals Ltd (2009-2016)**
- **AMEC "Prospector" Award – 2014**



**Marion Bush**  
*Technical Director*

- 25 years' experience in exploration, management, directorship and marketing
- Former CEO, Cassidy Gold (TSX-V)



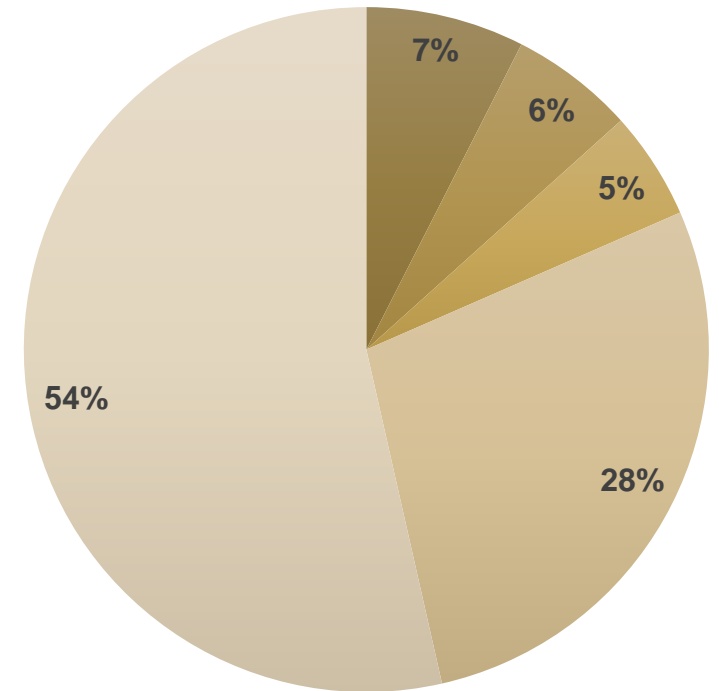
**Terry Gadenne**  
*Non-executive Director*

- 30 years' experience in military/civil aviation, agriculture and mining services
- Former MD - Mining Logic Pty Ltd



**Mindy Ku**  
*Company Secretary*

- 15 years' experience with public and private companies



■ Kelly  
■ Hanlon SF  
■ remaining register

■ Faraday/Le Samourai  
■ remaining top 20



# Rights Issue for eligible Shareholders

## Placement completed 4 April 2024

- \$0.6M raised (before costs)
- 1.2c issue price
- Directors intending to subscribe for \$100K\*

## Non-Renounceable Rights Issue to raise \$1.6M

- 1 Right for each 1 Share held
- 0.8c purchase price
- Record Date - **26 June 2024**
- Offer Opens – **1 July 2024**
- Offer Closes – **5pm Fri, 12 July 2024**

## Use of Funds

- Bangemall and Gidji drilling programmes
- Other exploration activities
- Working capital

\* Subject to Shareholder Approval – 25 June 2024

	Shares	Options
Shares on Issue (Mar 24)	148,869,544	96,542,589
Placement Shares (Apr 24)	37,217,386	74,434,772
Director Shares (Jun 24)*	8,333,333	16,666,666
Broker Options	-	42,119,415
Rights Issue Shares (max.)	194,620,263	194,620,263
<b>New Shares on Issue</b>	<b>389,240,526</b>	<b>424,783,705</b>
Listed Options exp. Jul 24		- 59,746,076
<b>Pro-forma Capital Structure</b>	<b>389,240,526</b>	<b>365,037,629</b>
<b>Market Capitalisation</b>	Undiluted <b>\$3.9M</b>	Fully Diluted <b>\$7.5M</b>
<b>Cash</b>	<b>\$2.0M</b>	<b>\$2.0M</b>
<b>EV</b>	<b>\$1.9M</b>	<b>\$5.5M</b>

# 2024 Objectives

## Gidji JV

- IP survey over **8-Mile** target
- Drill test **8-Mile** and **Blackfriars** targets

## Bangemall

- Rock chip sampling
- EIS co-funded RC drilling (**Mt Vernon** and **Trouble Bore**)

## Whaleshark

- Passive seismic survey – completed
- Examine **magnetite** potential

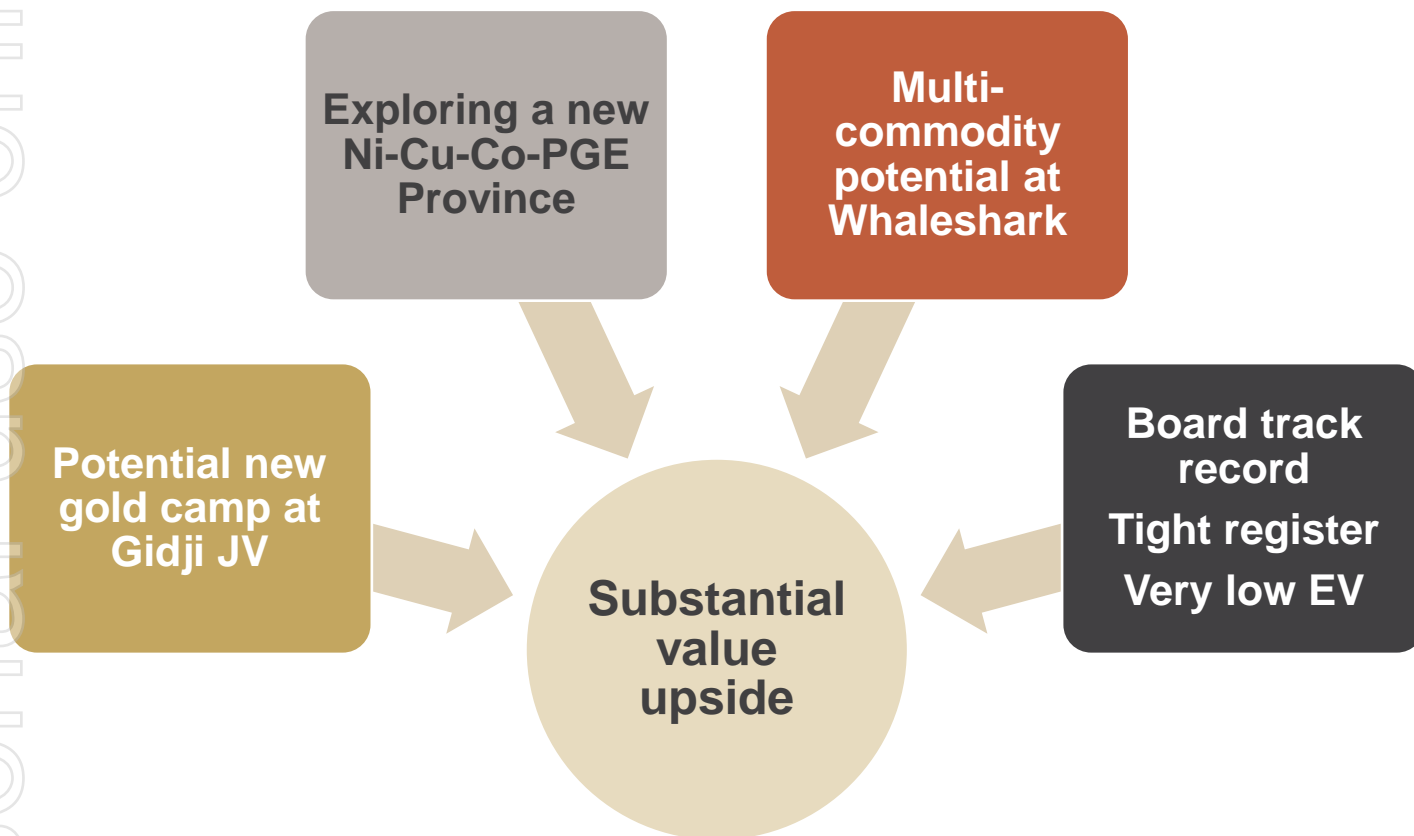
## Other Projects

- Passive seismic survey at **Glandore**
- Progress other tenements to grant

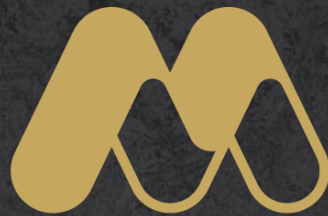




# Why Invest in Miramar?



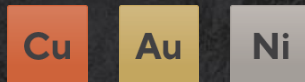
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# Additional Projects



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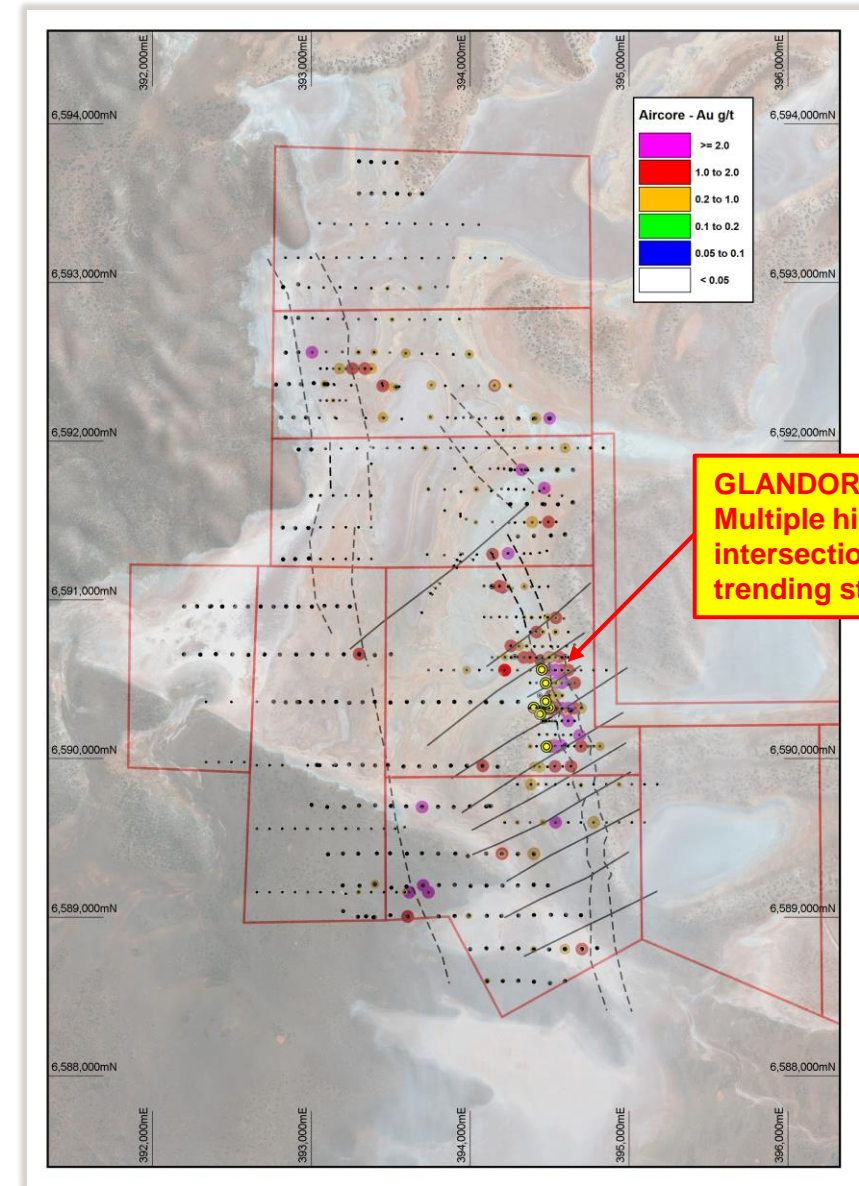
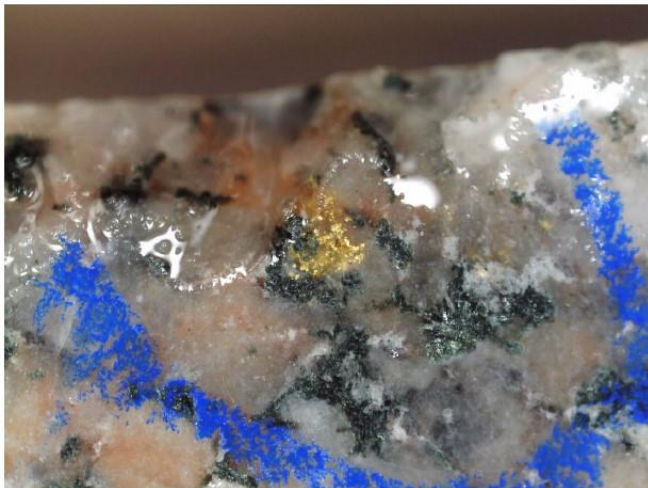


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# Glandore

- **40km E of Kalgoorlie** - close to existing/ proposed gold processing plants
- Layered mafic sill intruded by granodiorite – similar geology/structure to Majestic (500koz)
- Large aircore footprint >1g/t Au under salt lake
- **High-grade intersections at Glandore East**





# Randalls Projects

## Underexplored projects on major structures

### Lake Yindarlgooda

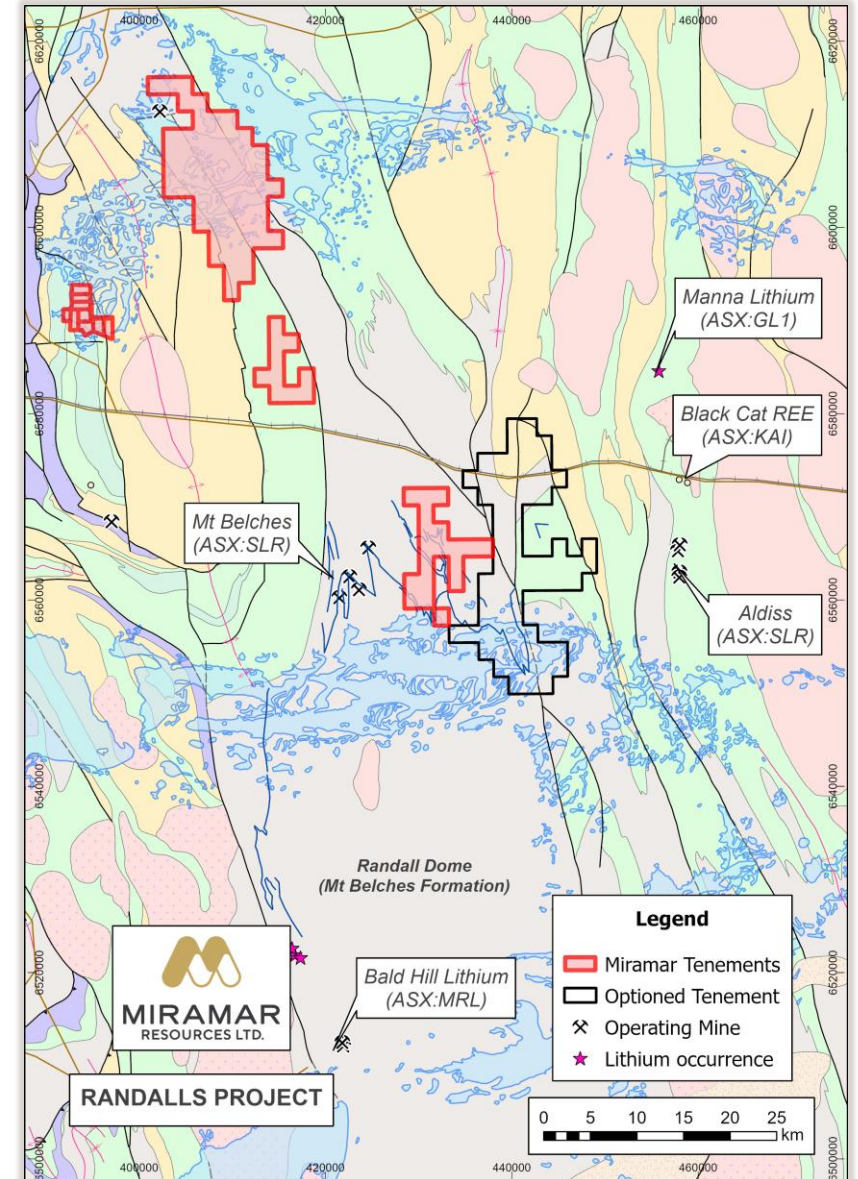
- 11km strike of aircore gold anomalism
- Similar geology/structure to 2Moz Invincible gold deposit (St Ives)

### Venetian

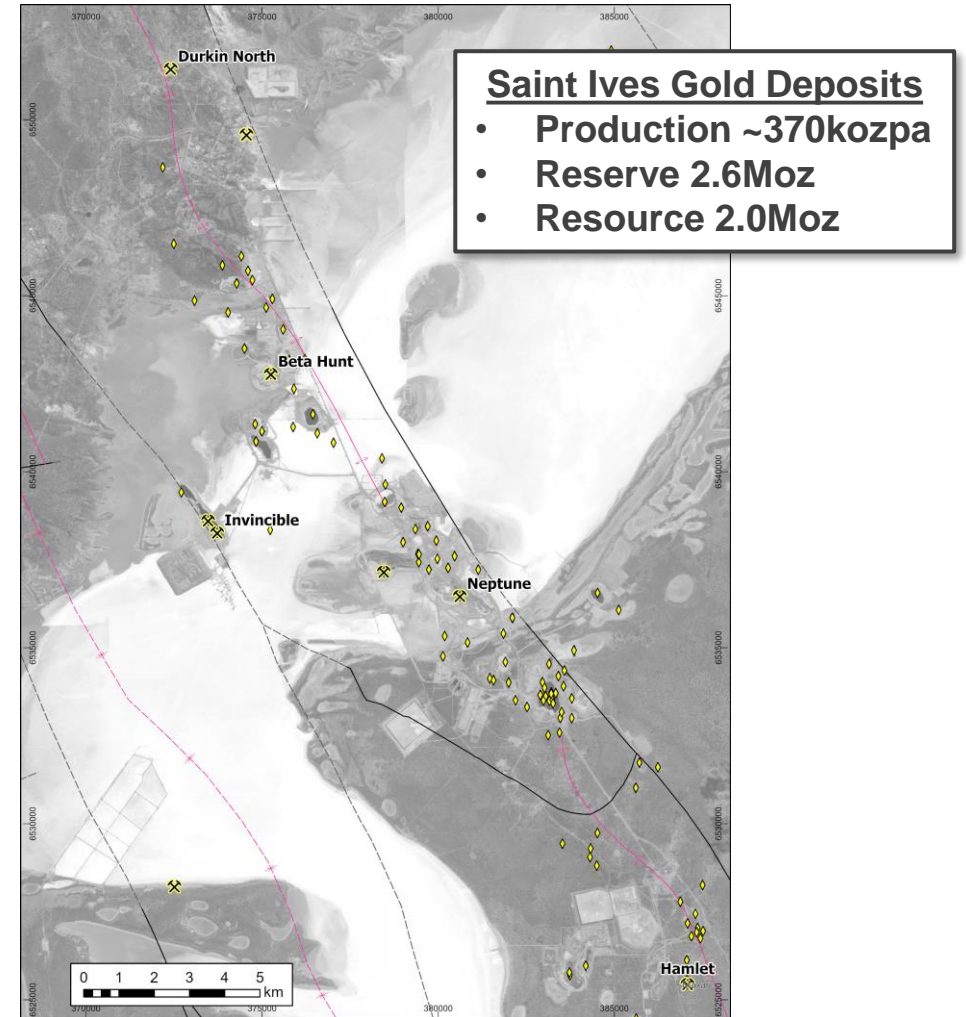
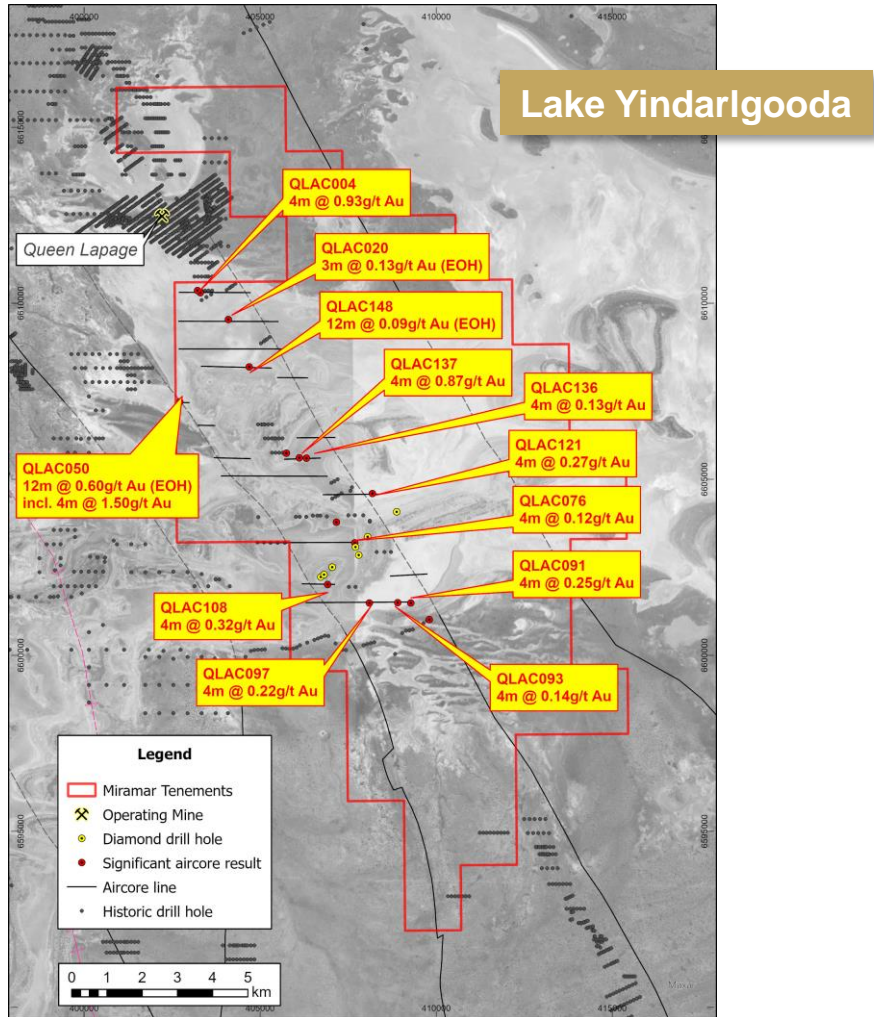
- Sporadic historic RAB drilling

### Randalls

- Folded BIF adjacent to high-grade gold mines
- Confluence of major regional structures
- Gold-Lithium-REE potential (e.g. Manna, Bald Hill, Black Cat REE)



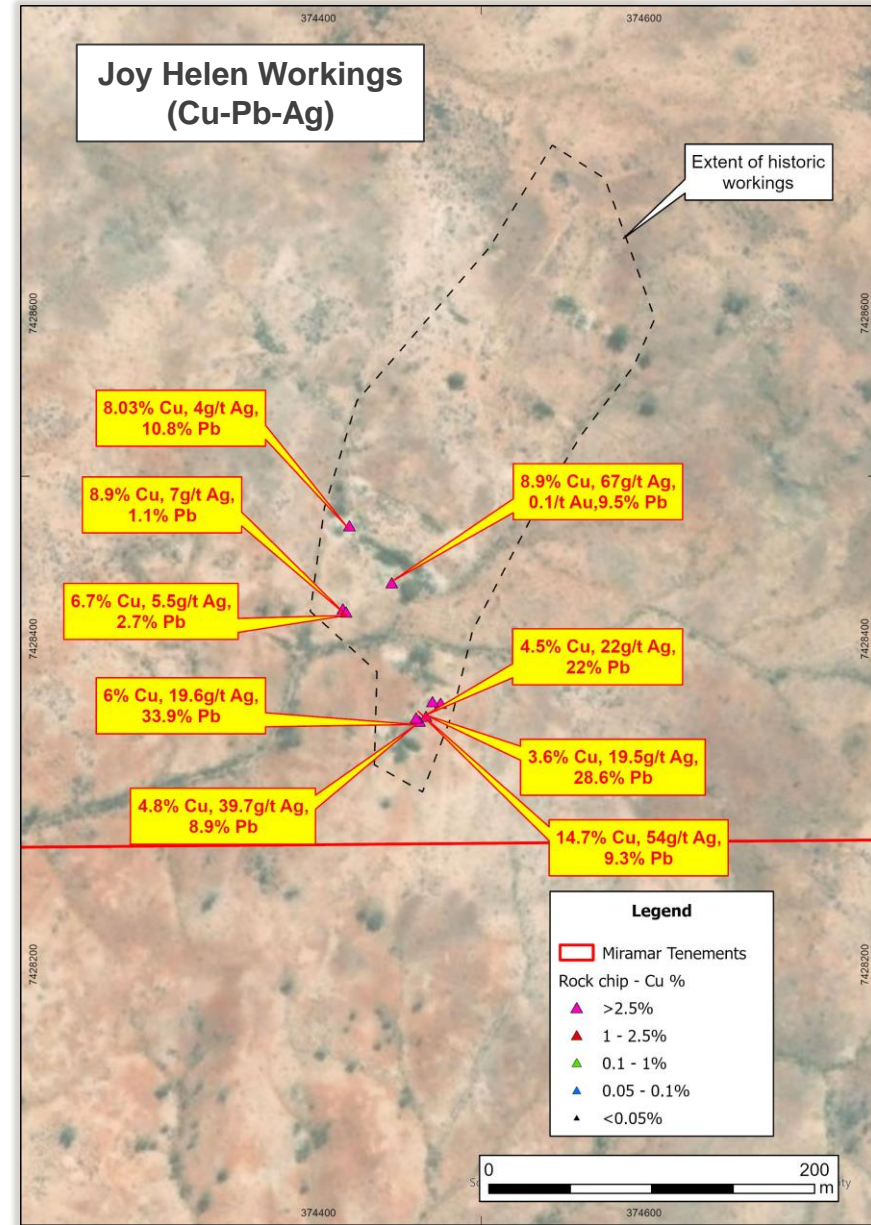
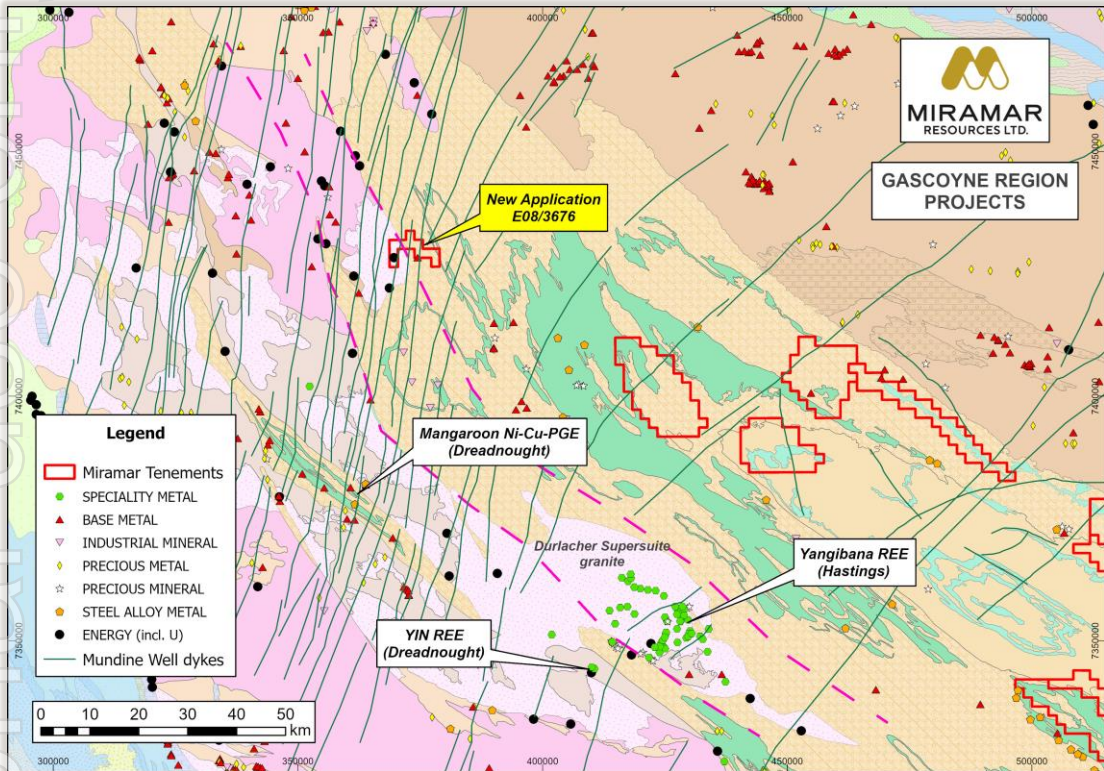
# Lake Yindarlgooda – significant gold potential



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# Chain Pool





# Carnarvon Sands (heavy mineral sands +/- REE's)

