



**MIRAMAR**  
RESOURCES LTD.

# Annual General Meeting Presentation

14 November 2024



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



# 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.

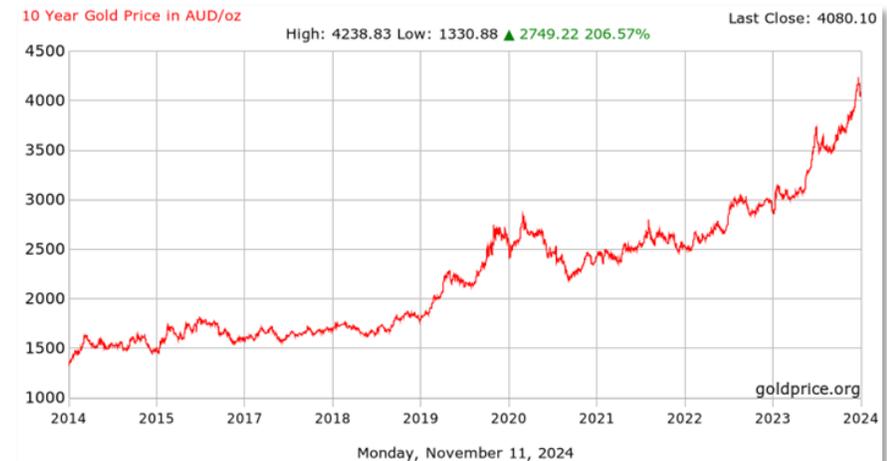
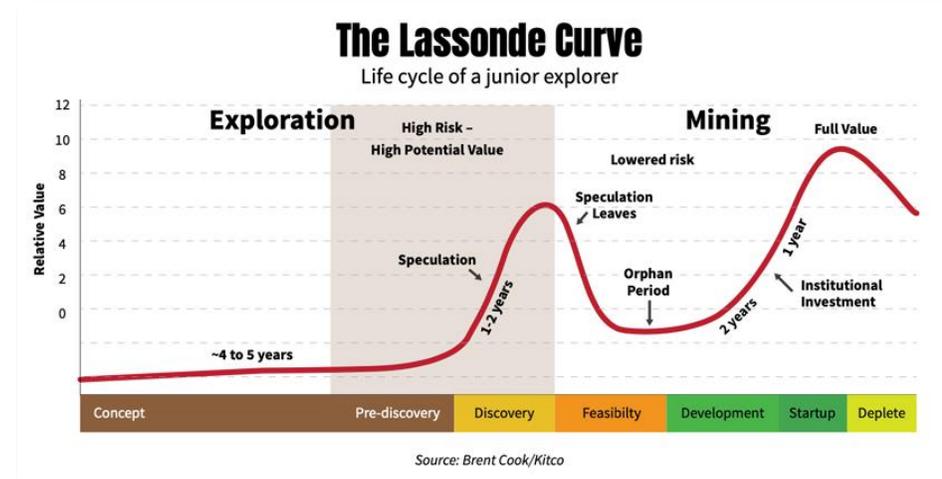
# Miramar – Aim and Strategy

## Aim:

*“To create shareholder value through discovery”*

## Exploration Strategy

- Acquire underexplored projects in (potential) world-class mineral provinces
- Recognise similarities with known deposits
- Systematic exploration using best practise
- Maximise exploration spend (>70% of cash spent on exploration since listing)
- Rapidly assess/turnover projects



# Miramar - Key Projects

## Gidji JV

- Strategic gold project with potential for a new gold camp in a record gold price environment

## Bangemall

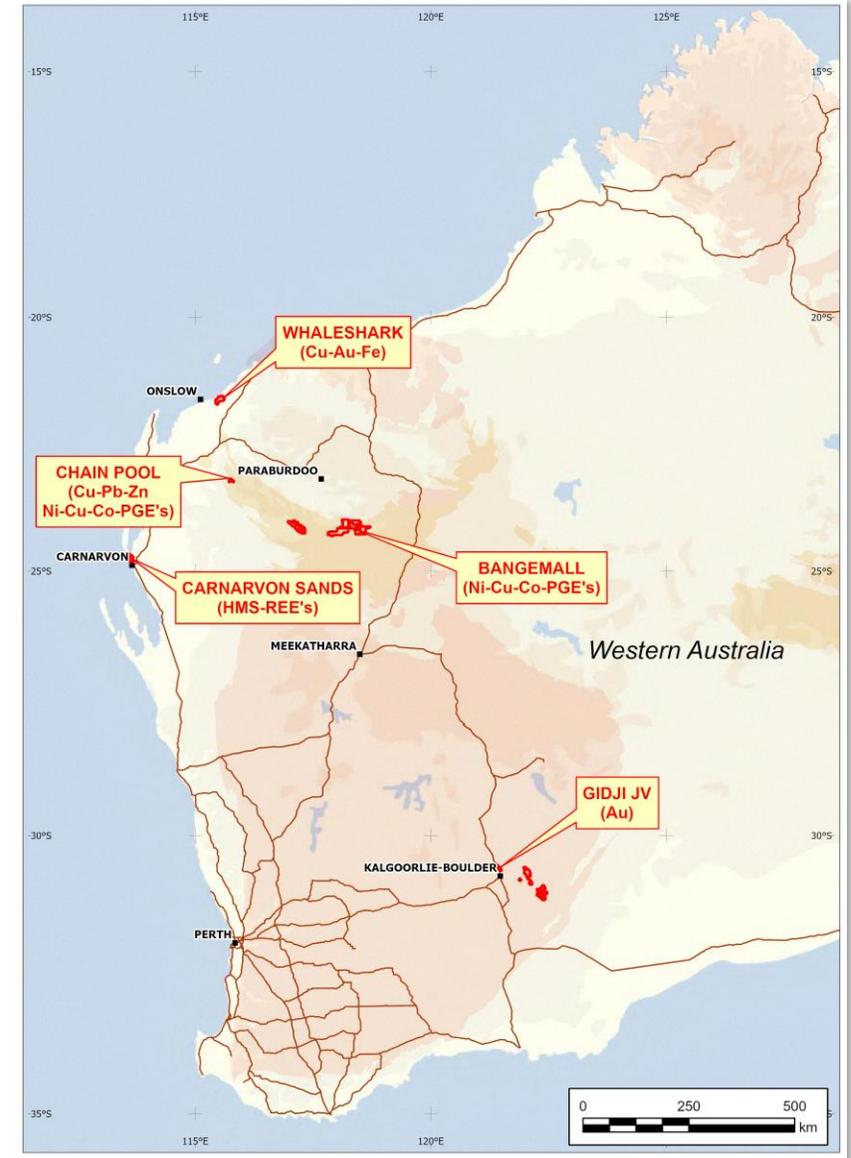
- Exploring for giant Ni-Cu-Co-PGE deposits in a new mineral province

## Whaleshark

- Large copper-gold and magnetite project

## Chain Pool

- High-grade Cu-Pb-Zn-Ag mineralisation
- Ni-Cu-Co-PGE potential in dolerite dykes



# 2023/24 Highlights

## Whaleshark (Cu-Au-Fe)

- Aircore EOH results highlight **IOCG** potential
- EIS co-funded diamond drilling intersects **copper sulphides**
- Passive seismic survey confirms **shallow basement** across most of the project

## Bangemall (Ni-Cu-Co-PGE's)

- Ground EM surveys outline conductors at Mount Vernon and Trouble Bore
- EIS co-funded RC drill campaign upgrades Bangemall targets

## Chain Pool

- New high-grade **Cu-Pb-Ag-Zn** project pegged





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**Gidji JV (80%)**  
Strategic land position in a  
world-class gold province

Au



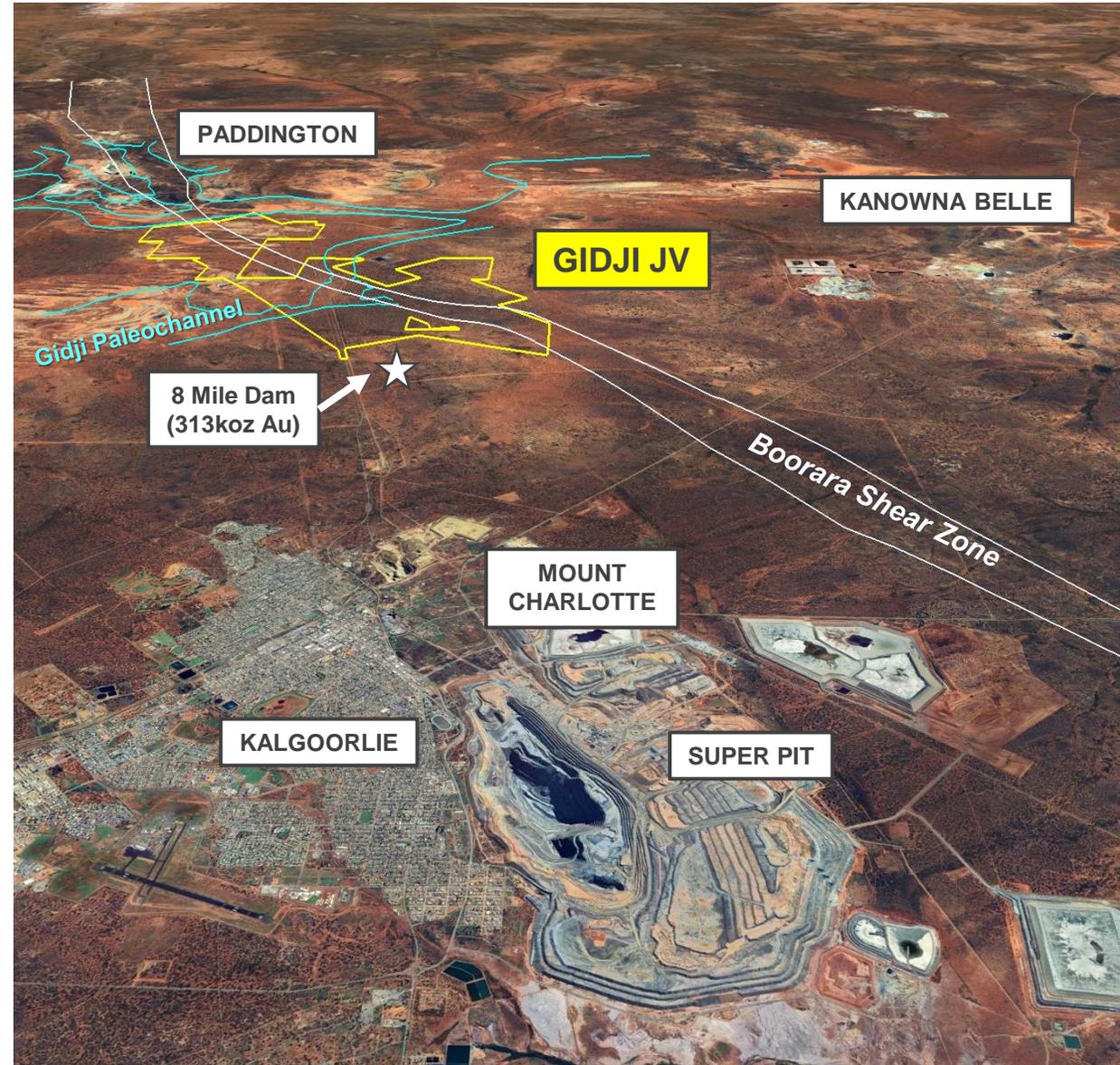
# Gidji JV

*“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

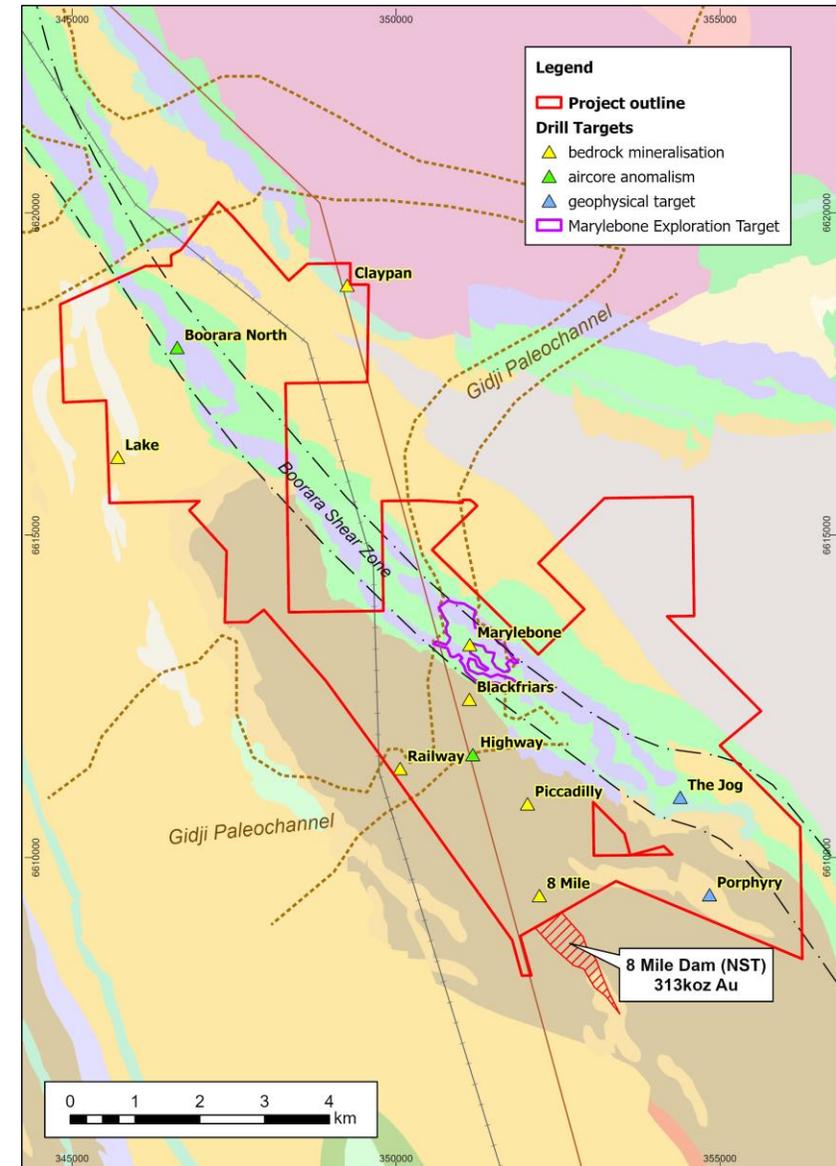
- ✓ Dilational jog in Boorara Shear Zone
- ✓ Underexplored due to transported cover and Gidji Paleochannel
- ✓ Extensive aircore gold footprint
- ✓ Gold mineralisation in multiple rock types



# Gidji JV

## *“The cheapest house in the best street”*

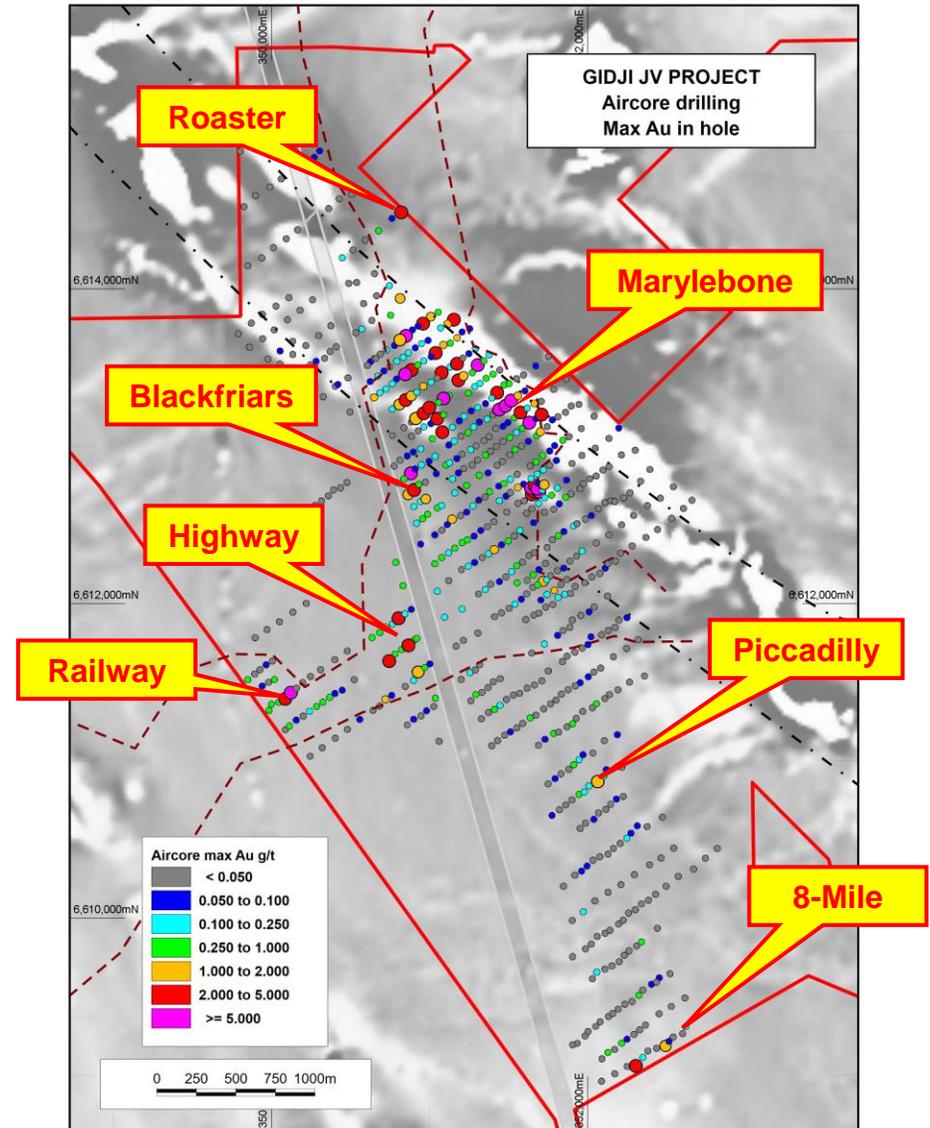
- 15km strike of the “Boorara Shear Zone” - host to multiple large gold deposits
- Multiple new discoveries under paleochannel and key bedrock targets identified
  - **8-Mile** – potential offset extension to 313koz “8 Mile Dam” gold deposit
  - **Marylebone** – ~100koz “Exploration Target”
  - **Blackfriars** – Paddington lookalike
  - **The Jog** – dilational jog with gravity high and magnetite destruction



# Gidji – new discoveries

## Significant aircore gold results under cover

- **Marylebone**
  - Two parallel 1km long zones
- **Blackfriars**
  - Black Flag/mafic contact – open to N
- **Highway-Piccadilly**
  - 1.6km long aircore anomaly – open to N
- **Roaster**
  - New target open along strike
- Widespread alteration and pathfinder anomalism beneath paleochannel
- Further aircore and bedrock drilling planned

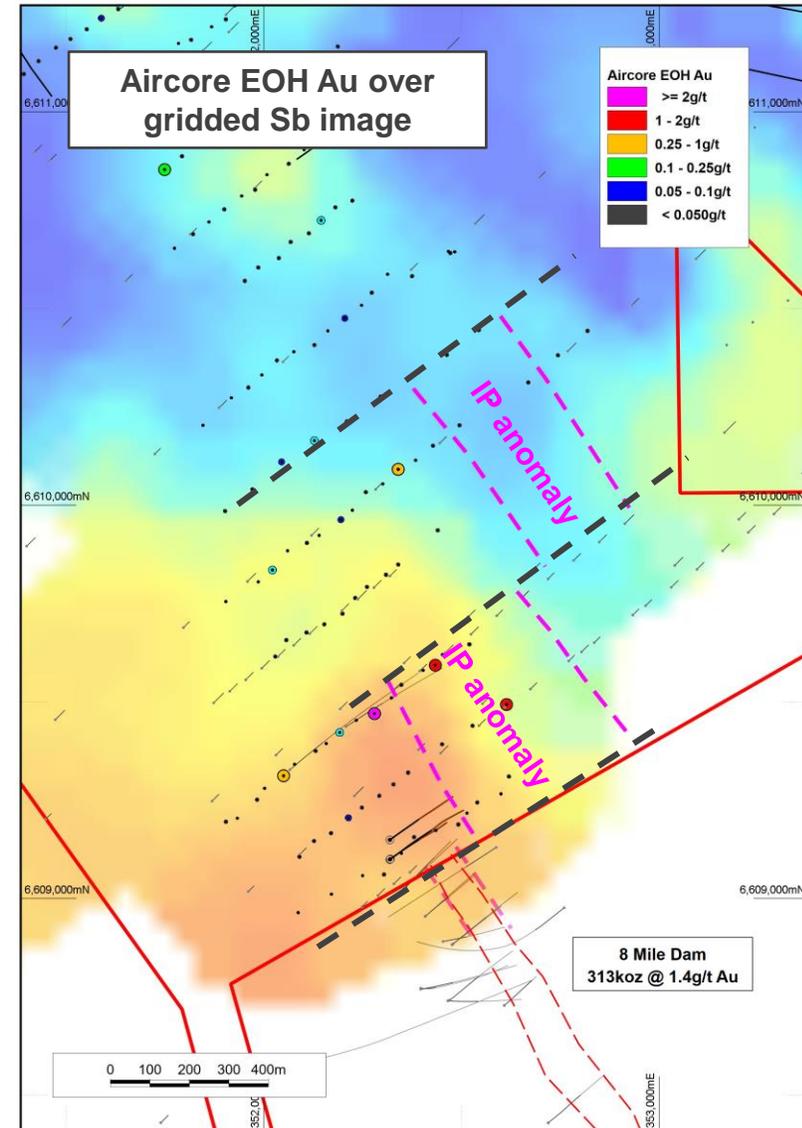


# 8 Mile Target

## Potential extension to “8 Mile Dam” deposit

- Multiple aircore EOH results  $> 1\text{g/t Au}$
- Strong alteration footprint and anomalous pathfinders (Bi, Mo, Sb and W)
- IP chargeability anomalies

## Further RC/Diamond drilling planned





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# Bangemall Projects

## Exploring for giants

Ni

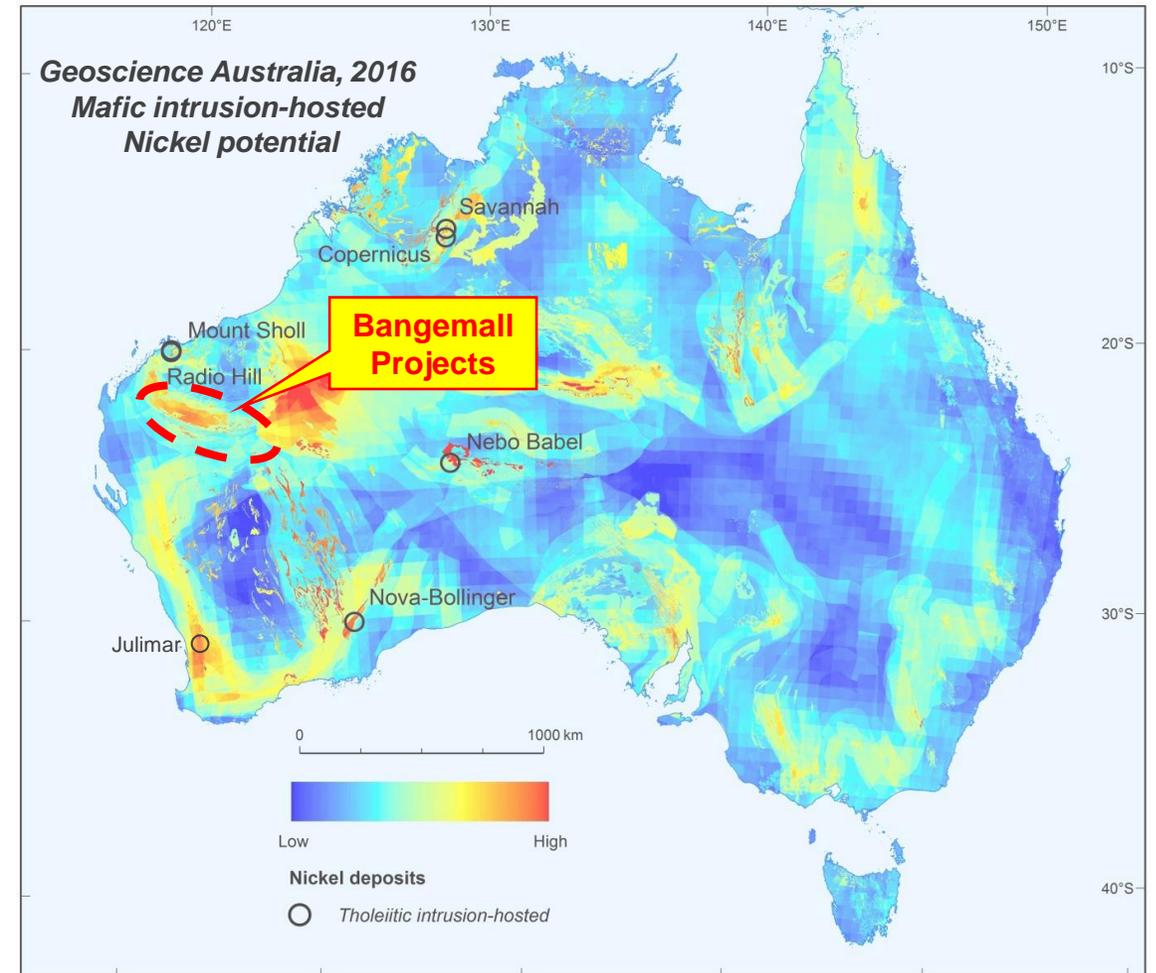
Cu



# Exploring for giant Ni-Cu-Co-PGE deposits

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

- ✓ Amongst the world's largest and most valuable mineral deposits (e.g. Norilsk)
- ✓ **Large**
  - 100's Mt to >1Bt of ore
  - 100's of kt to >1Mt of contained Nickel
- ✓ **Valuable**
  - High-grade/tenor
- ✓ **Low-cost/high-margin**
  - By-product credits (Co and PGE's)



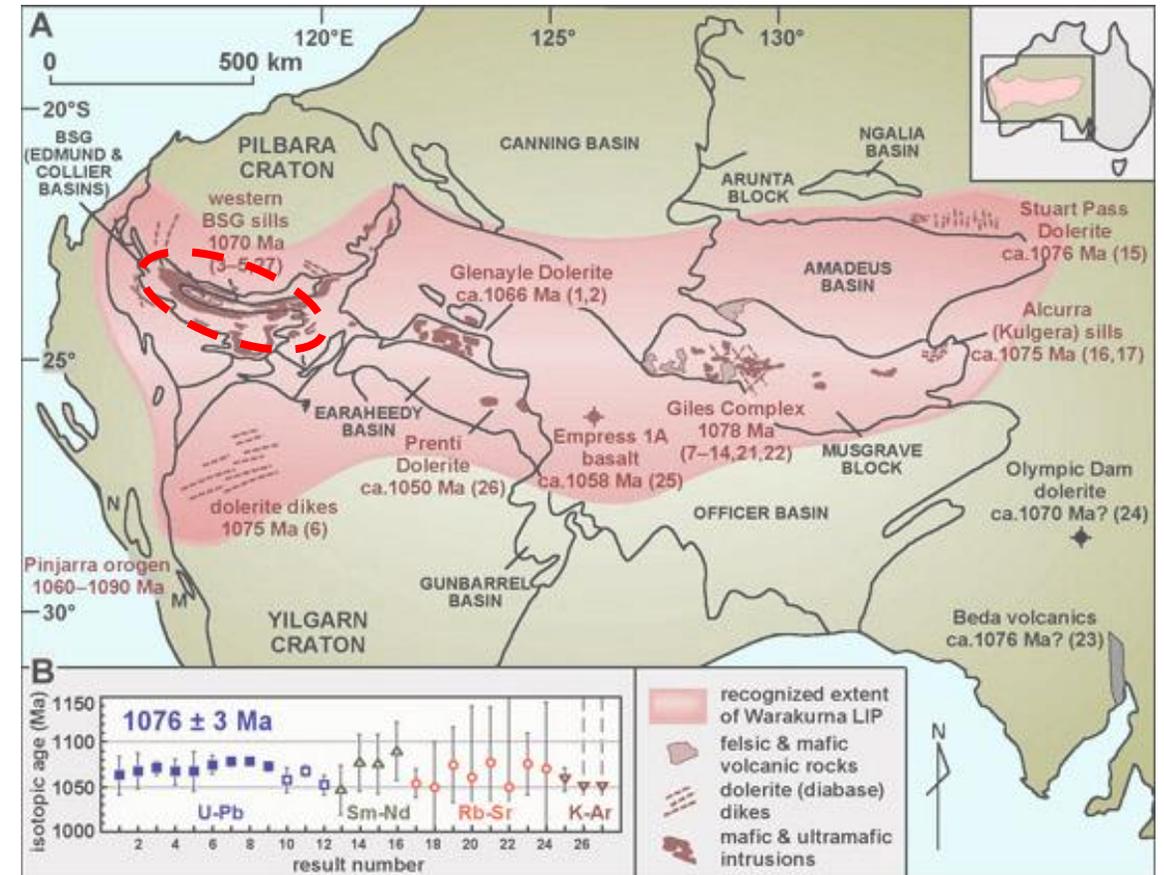
# Warakurna Large Igneous Province (LIP)

## Widespread Mesoproterozoic intrusive event

- **Bangemall - Kulkatharra Dolerite sills**
- Glenayle Dolerite
- Giles Complex - layered mafic-ultramafic intrusions (**Nebo-Babel-Succhoth**)

## Ni-Cu-Co-PGE prospectivity recognised by GSWA, Geoscience Australia and CSIRO

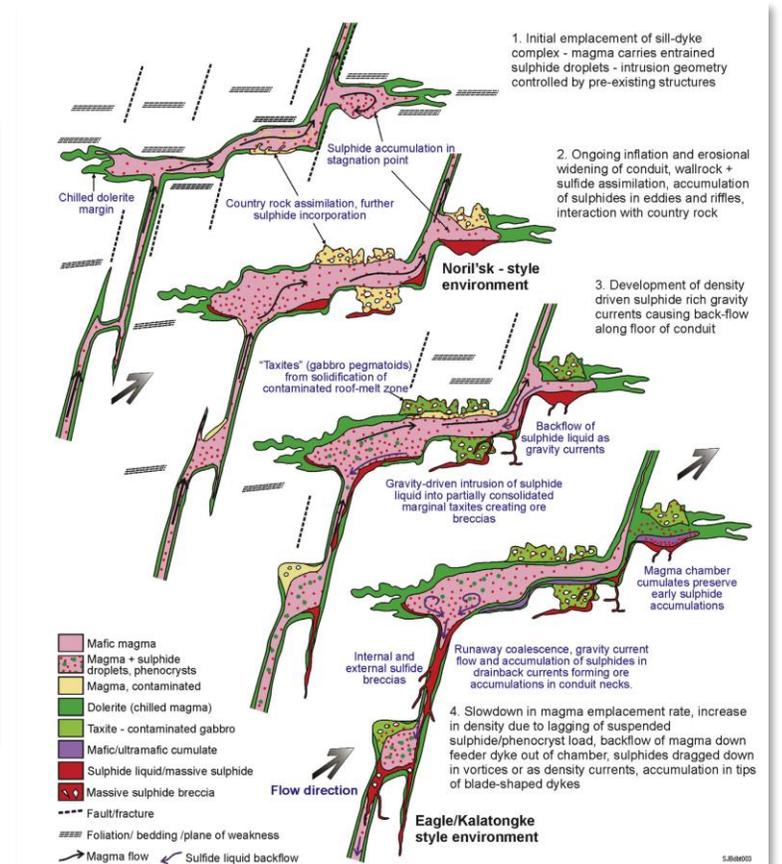
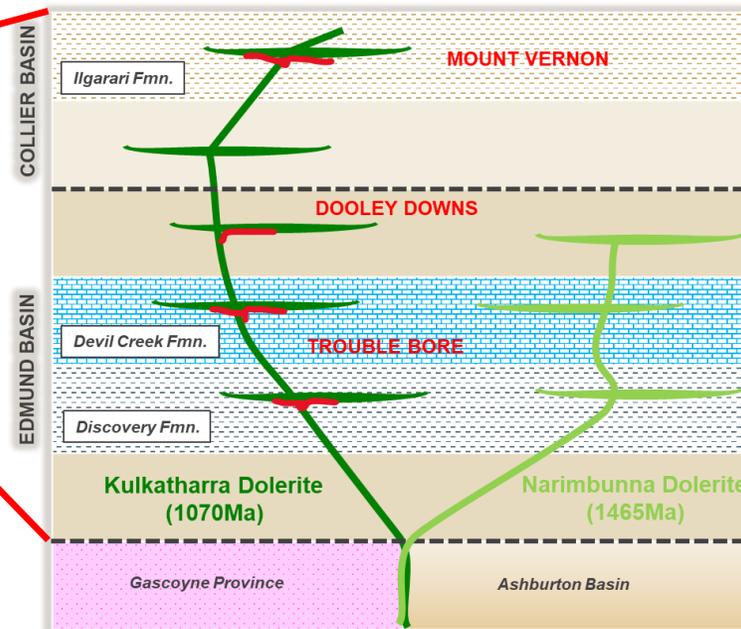
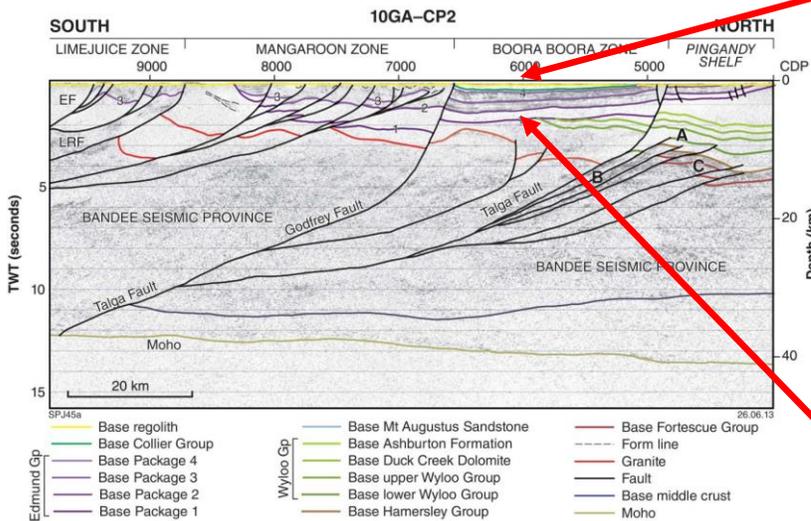
- *“The Bangemall Supergroup...is considered to be highly prospective for Noril’sk-type Ni-Cu-PGE deposits within the sill complexes” (GSWA, 2005)*
- *“...the Kulkatharra Dolerite sills are fertile in terms of Ni, Cu and PGE’s...similar composition and mantle source to the Alcurra dykes in the West Musgraves” (Godel, 2011)*



Wingate, 2004

# Bangemall Ni-Cu-Co-PGE deposit model

## Capricorn Orogen Seismic Line CP2



Barnes et al, 2015

# Bangemall Ni-Cu-Co-PGE Projects

## Key ingredients:

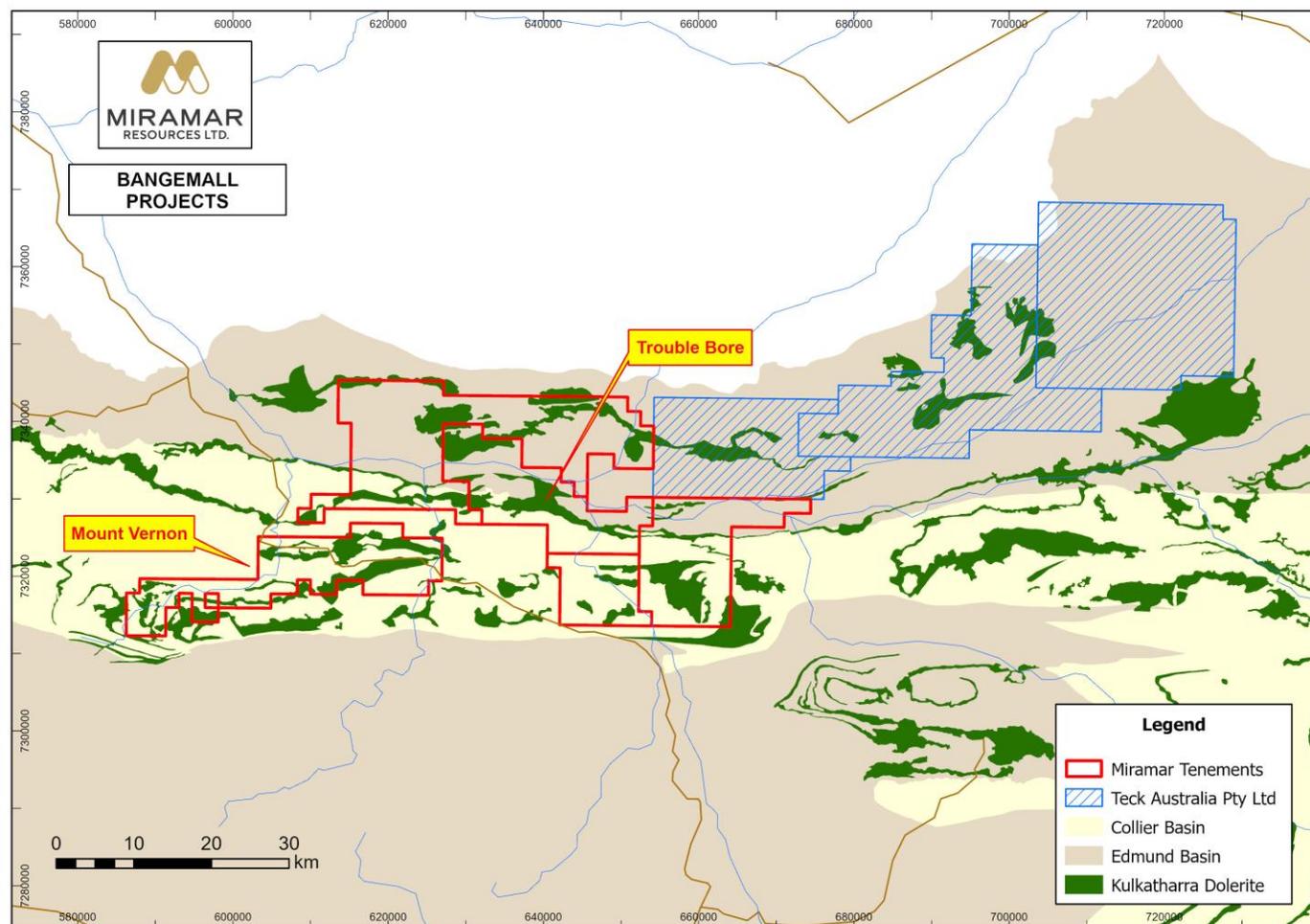
- ✓ 1070Ma-aged dolerite sills
- ✓ Deep crustal-scale faults
- ✓ Sulphur-rich sediments

## Regional-scale indicators

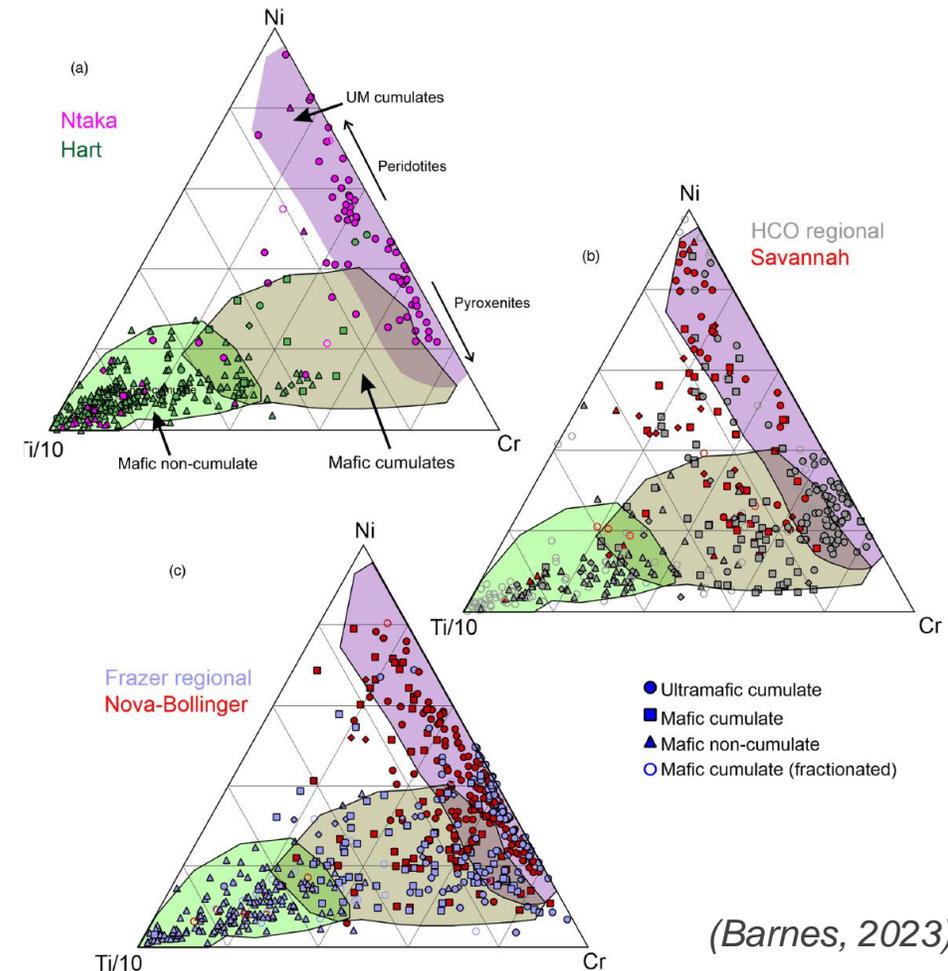
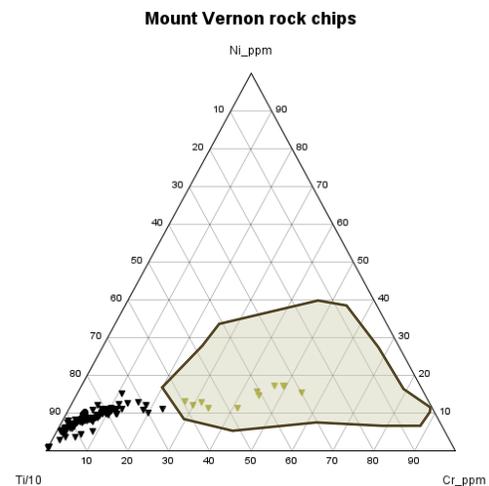
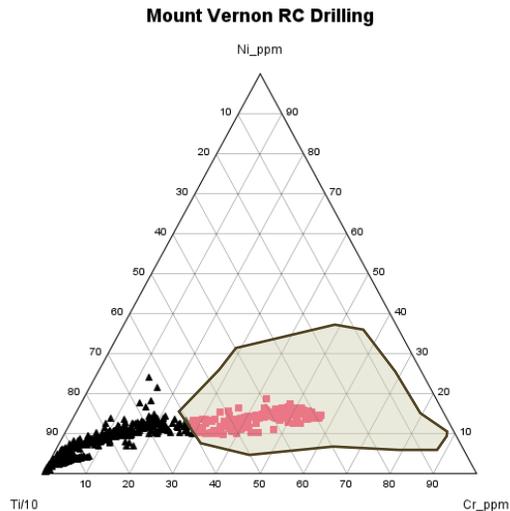
- ✓ GSWA geochem
- ✓ Capricorn EM anomalies

## Positive indicators from drilling and rock chip data

- ✓ Differentiated sills
- ✓ Mafic cumulate rocks



# Drilling/rock chip data identifies mafic cumulates



(Barnes, 2023)



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# Whaleshark

Copper-gold and magnetite

Cu

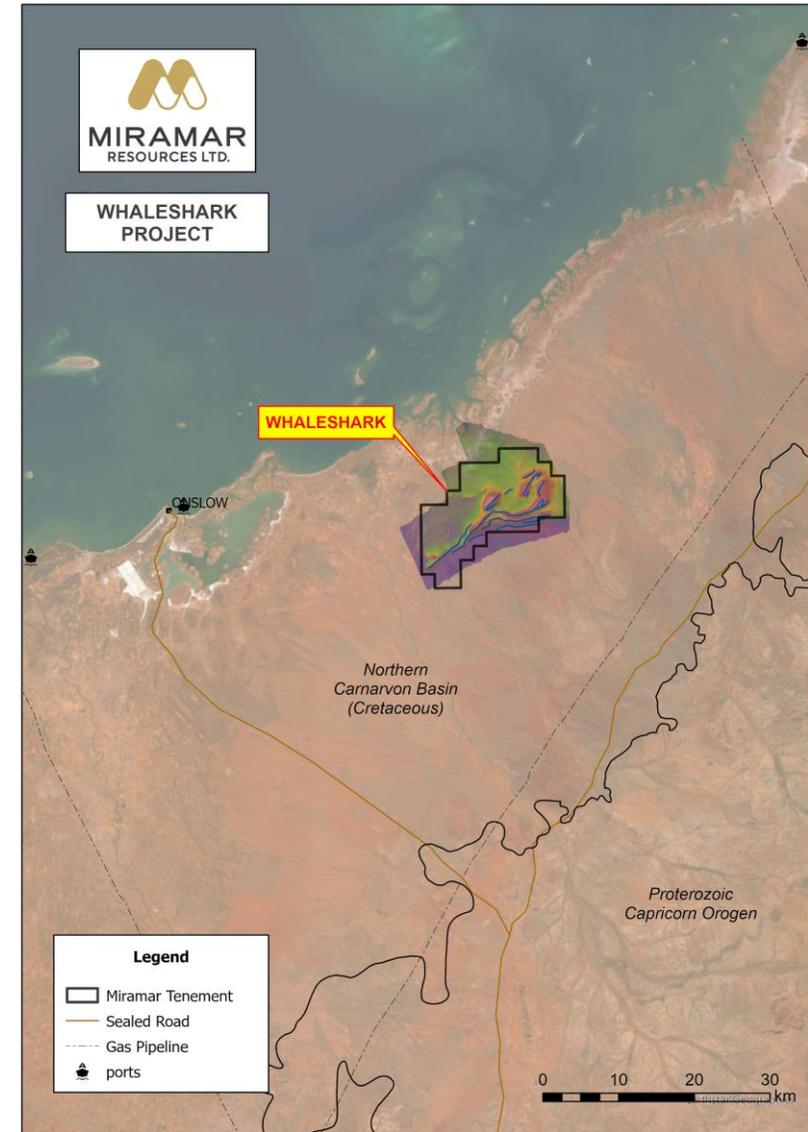
Au

Fe



# Whaleshark

- Proterozoic BIF, metasediments and granitoid beneath <100m of Carnarvon Basin sediments
- Multiple mineralisation styles present
  - **Iron Oxide copper-gold (IOCG)**
  - **BIF-hosted gold**
  - **Magnetite iron**
- Substantial mining, processing, energy and transport infrastructure nearby



# Whaleshark – multi-commodity project

## Copper-Gold

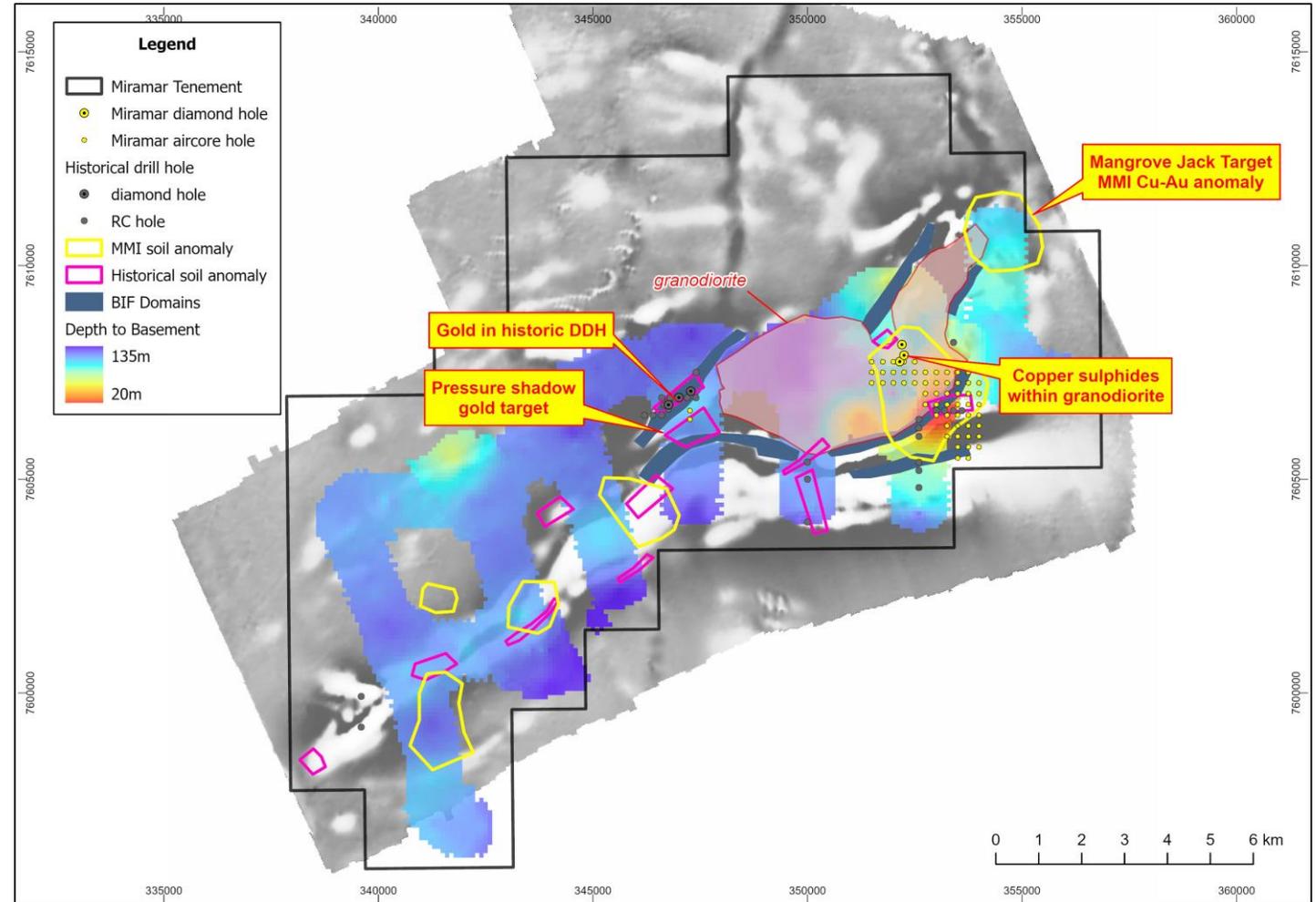
- Aircore results indicate **IOCG** alteration/REE signatures
- **Copper sulphides** intersected in 2023 diamond drilling

## Gold

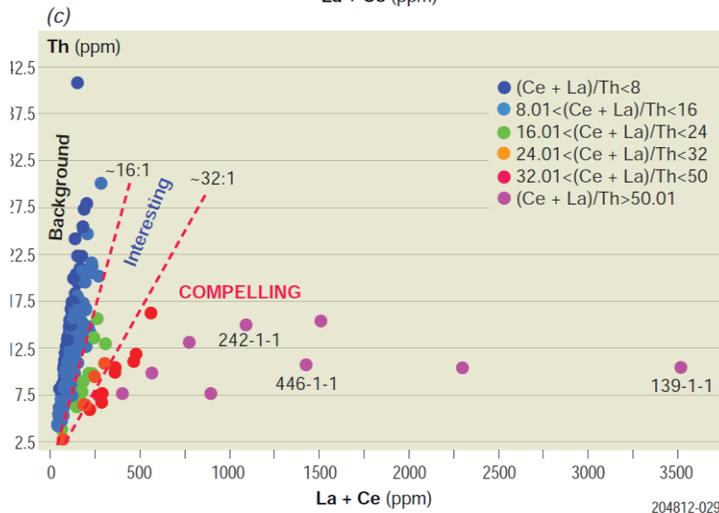
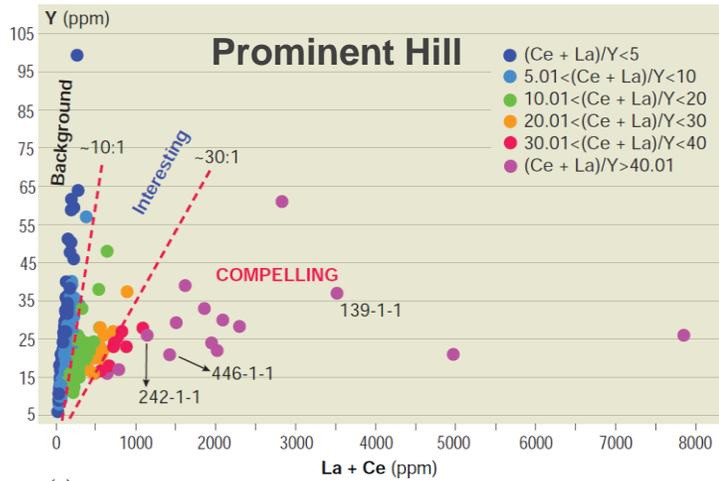
- **Gold** intersected in historic DDH and recent aircore drilling

## Magnetite

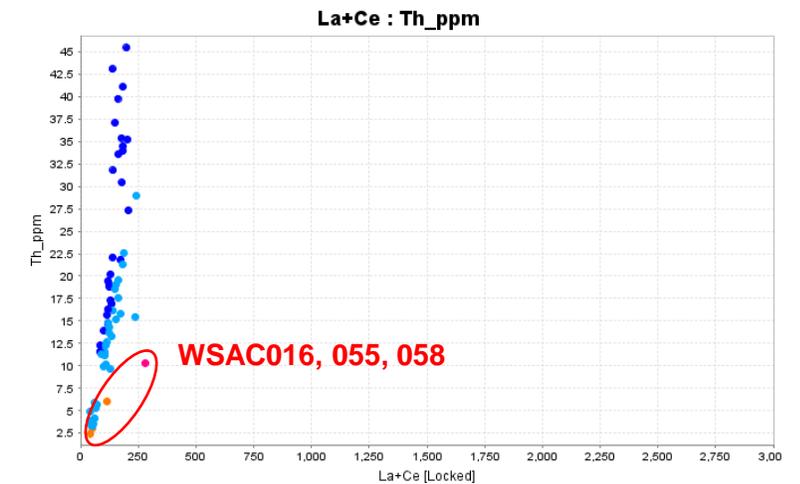
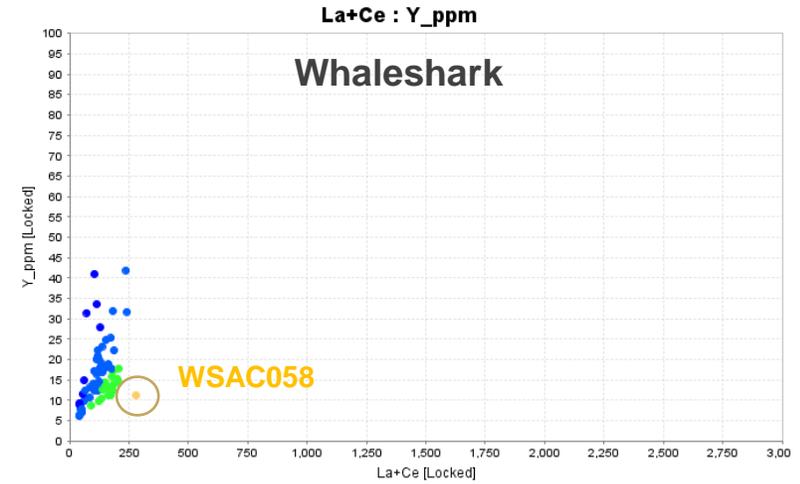
- Large magnetite “Exploration Target” outlined



# Aircore results suggest IOCG potential

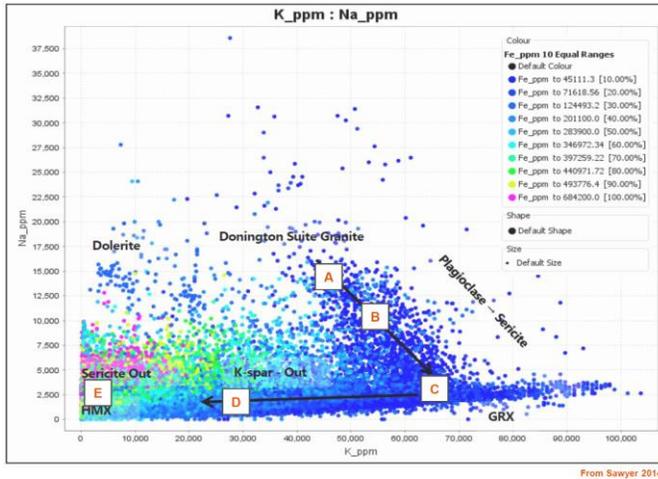


Forbes et al, 2016

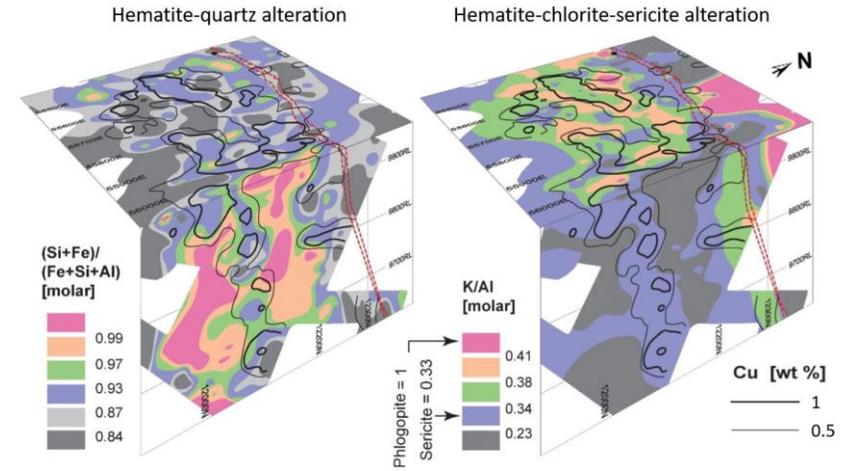


# IOCG-style alteration signatures

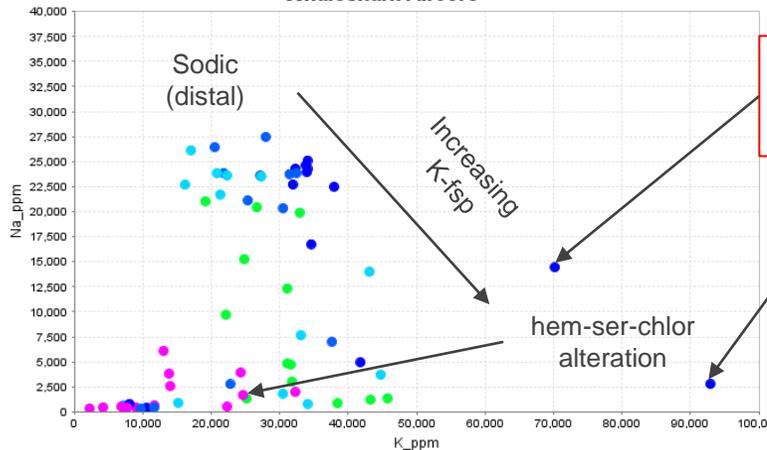
Carrapateena



Prominent Hill



Whaleshark Aircore

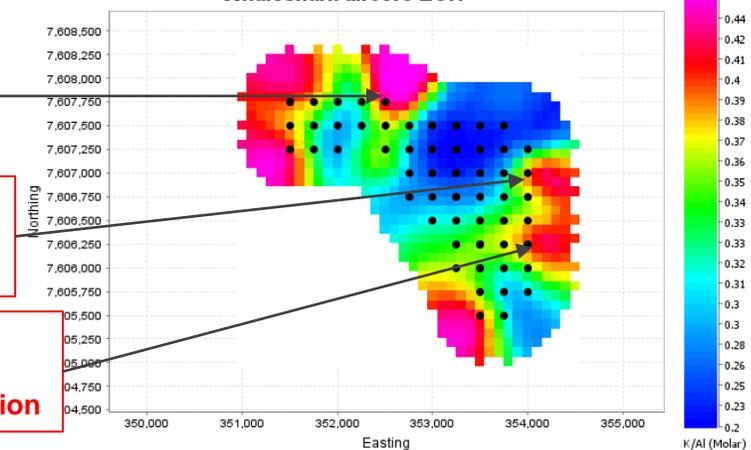


**WSAC016**  
High REE ratio  
Hem-ser-chlor alteration

**WSAC055**  
High REE ratio  
Hem-chlor-ser alteration

**WSAC058**  
High REE ratio  
Hem-ser-chlor alteration

Whaleshark aircore EOH





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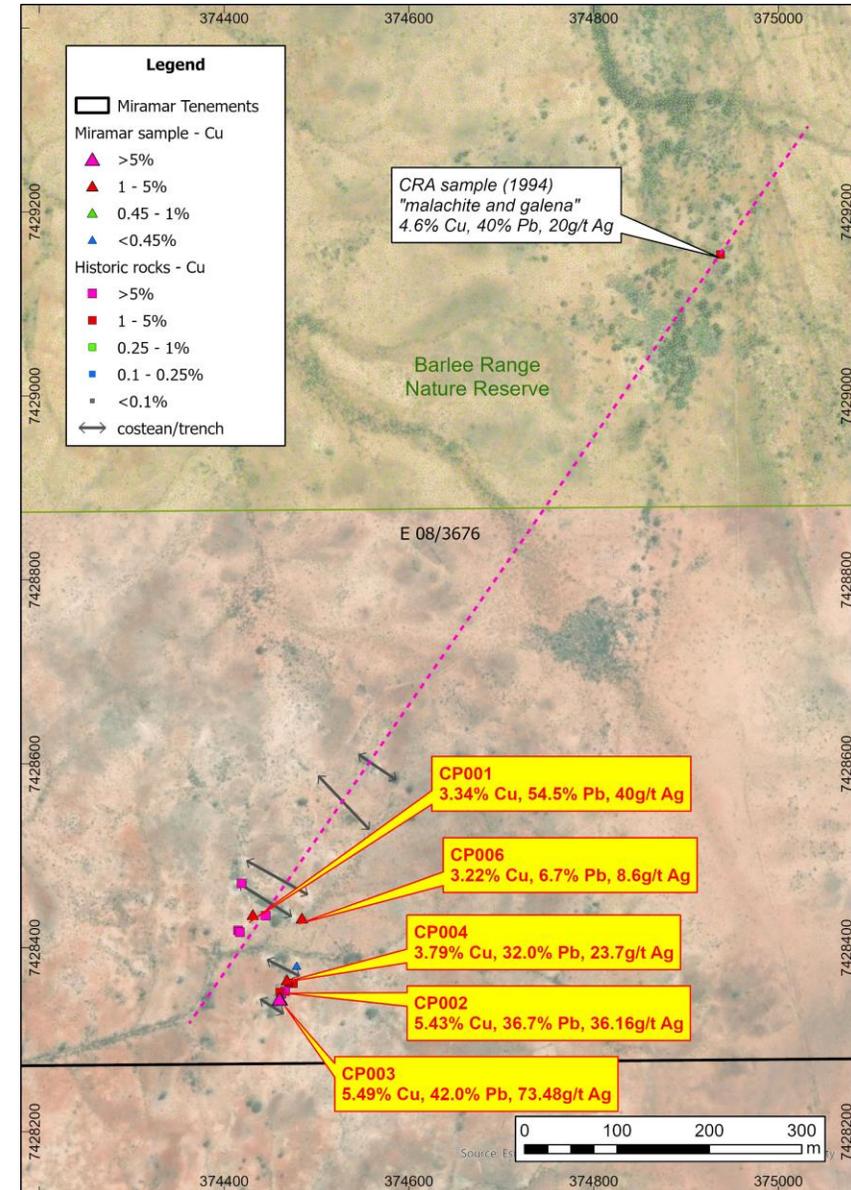
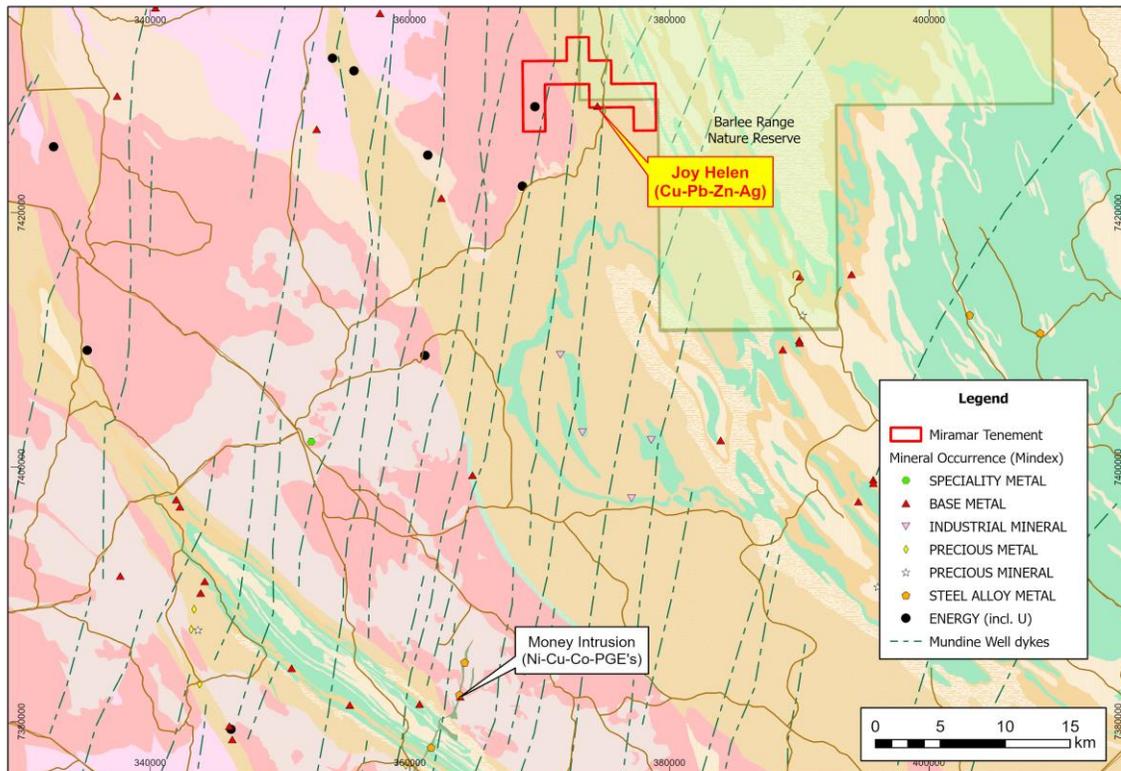
# Chain Pool

Cu-Pb-Zn-Ag and  
Ni-Cu-Co-PGE potential

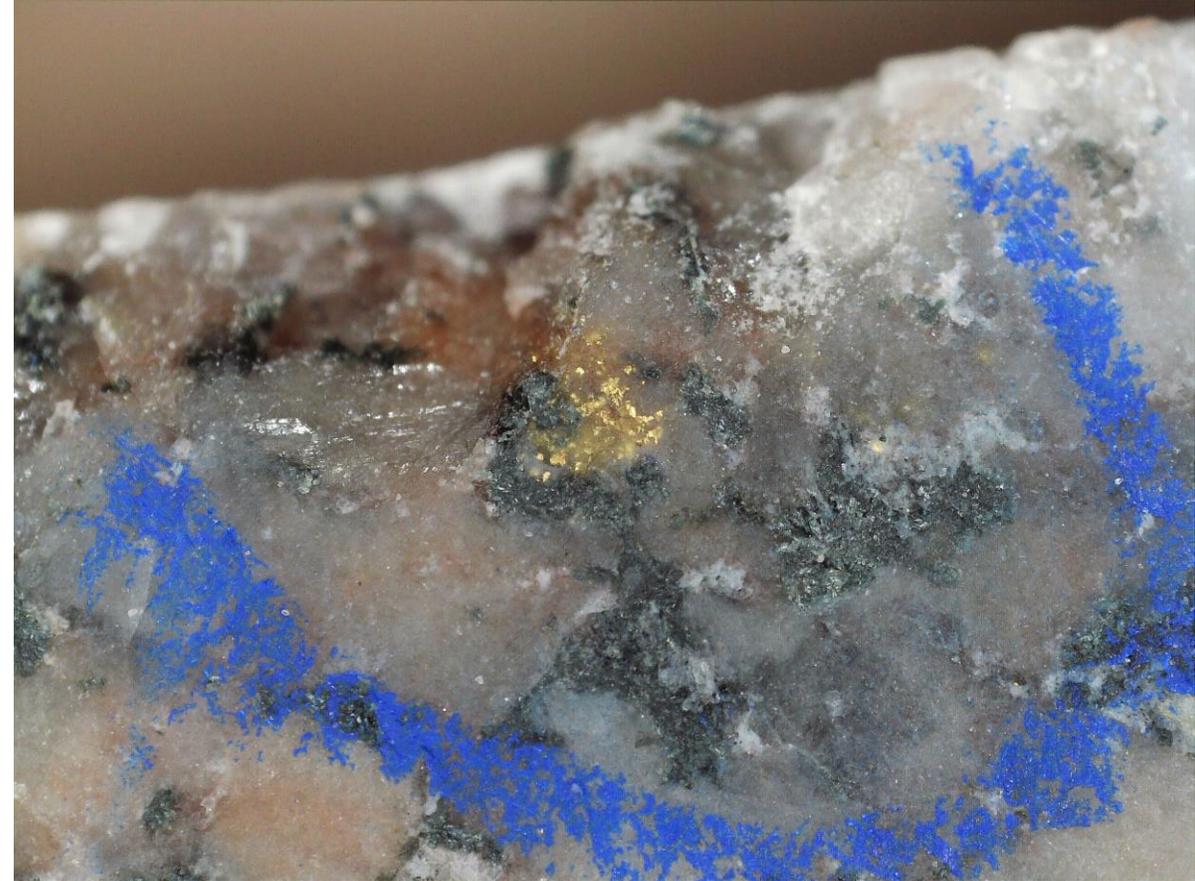
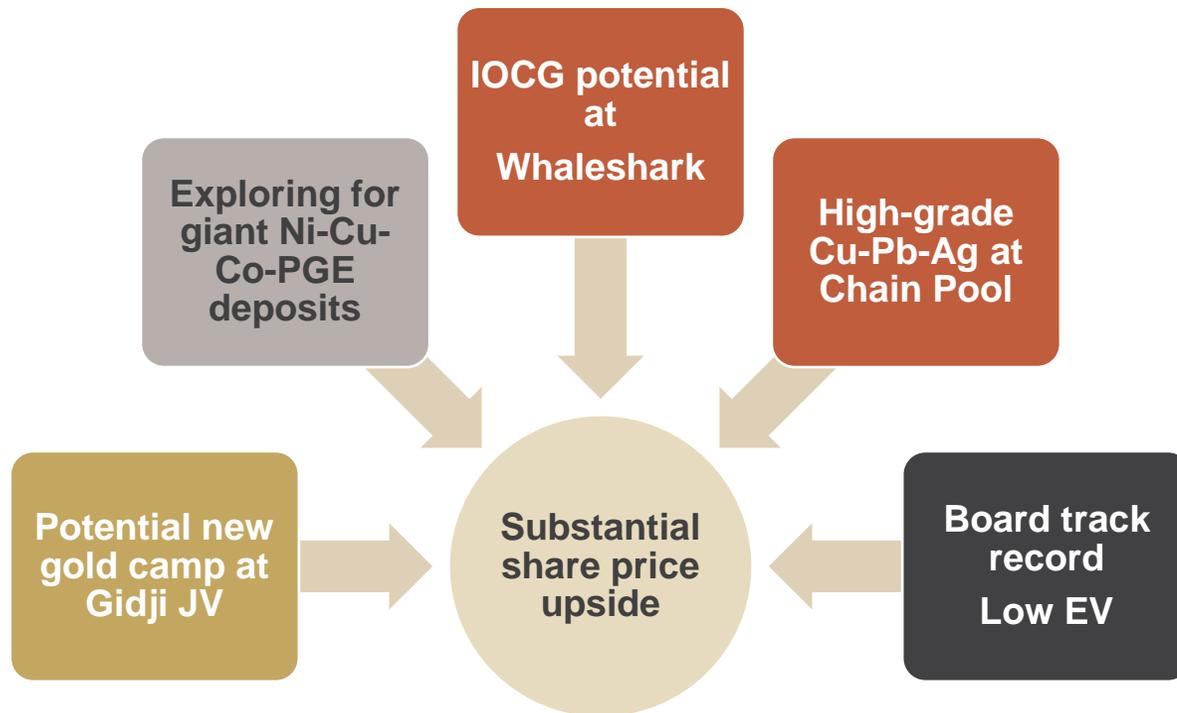


# Chain Pool

- High-grade **Cu-Pb-Zn-Ag** at “Joy Helen”
- 755Ma Mundine Well dykes (**Ni-Cu-Co-PGE's**)
- Rock chip and soil assays awaited



# Summary - Why Invest in Miramar?



# Corporate Snapshot



**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

ASX Code	M2R
Shares on issue	396.8M
<b>Market Capitalisation (@ 0.7c)</b>	<b>\$2.8M</b>
Cash	\$0.5M
EV	\$2.3M
<i>JEMI Credits Available</i>	<i>\$0.45M</i>

Largest Shareholders	%
Faraday	6.8
Allan Kelly and related entities	5.5
<b>Top 20</b>	<b>42.4</b>

# Proposed 2025 Work Programmes

## Gidji JV

- RC and extensional/infill aircore drilling

## Chain Pool

- Aircore drilling at **Joy Helen**

## Bangemall

- Regional rock chip sampling
- Drilling at Trouble Bore (EIS co-funded)
- Airborne EM survey (EIS funding?)

## Whaleshark

- Extend aircore coverage over **Copper-Gold** targets





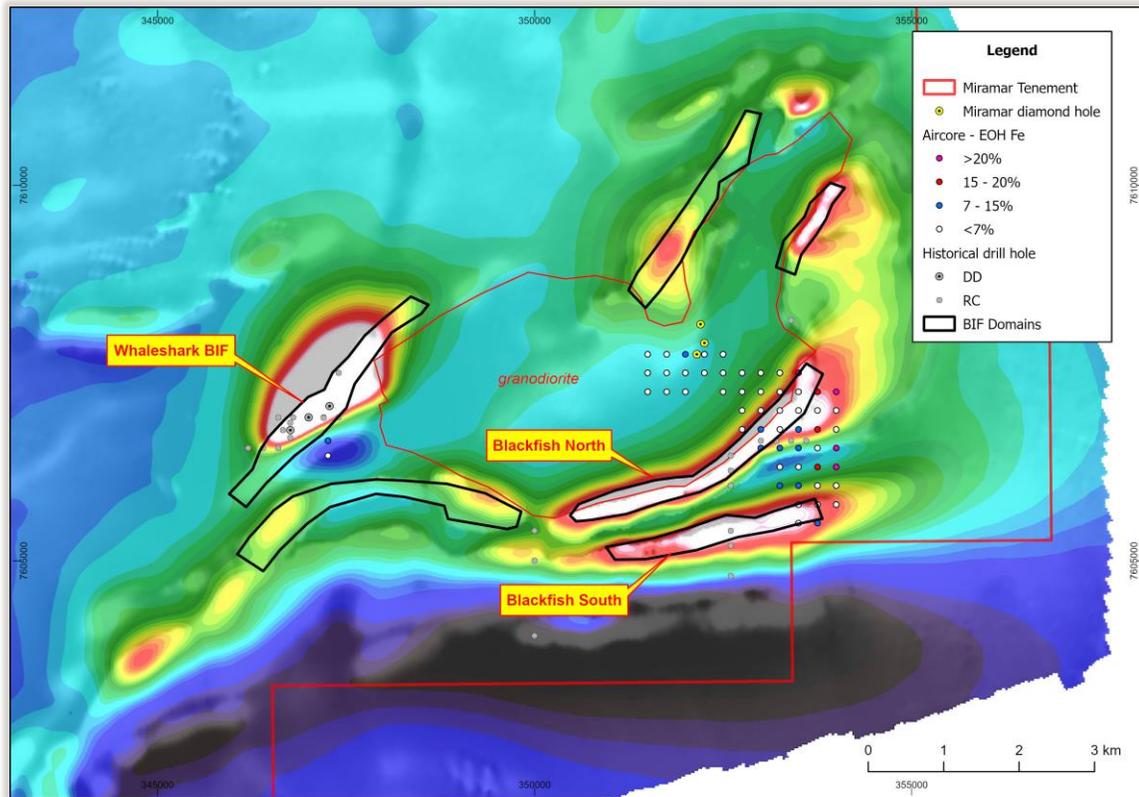
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# Whaleshark Magnetite Exploration Target\*



Domain	Tonnage Range (Mt)		Grade Range (Fe %)	
	Lower	Upper	Lower	Upper
Whaleshark	128	384	25	30
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:**

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

\*See ASX Release dated 19 June 2024