



MIRAMAR
RESOURCES LTD.

Gold and Critical Minerals Exploration

AMEC Investor Briefing
4 June 2024



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.

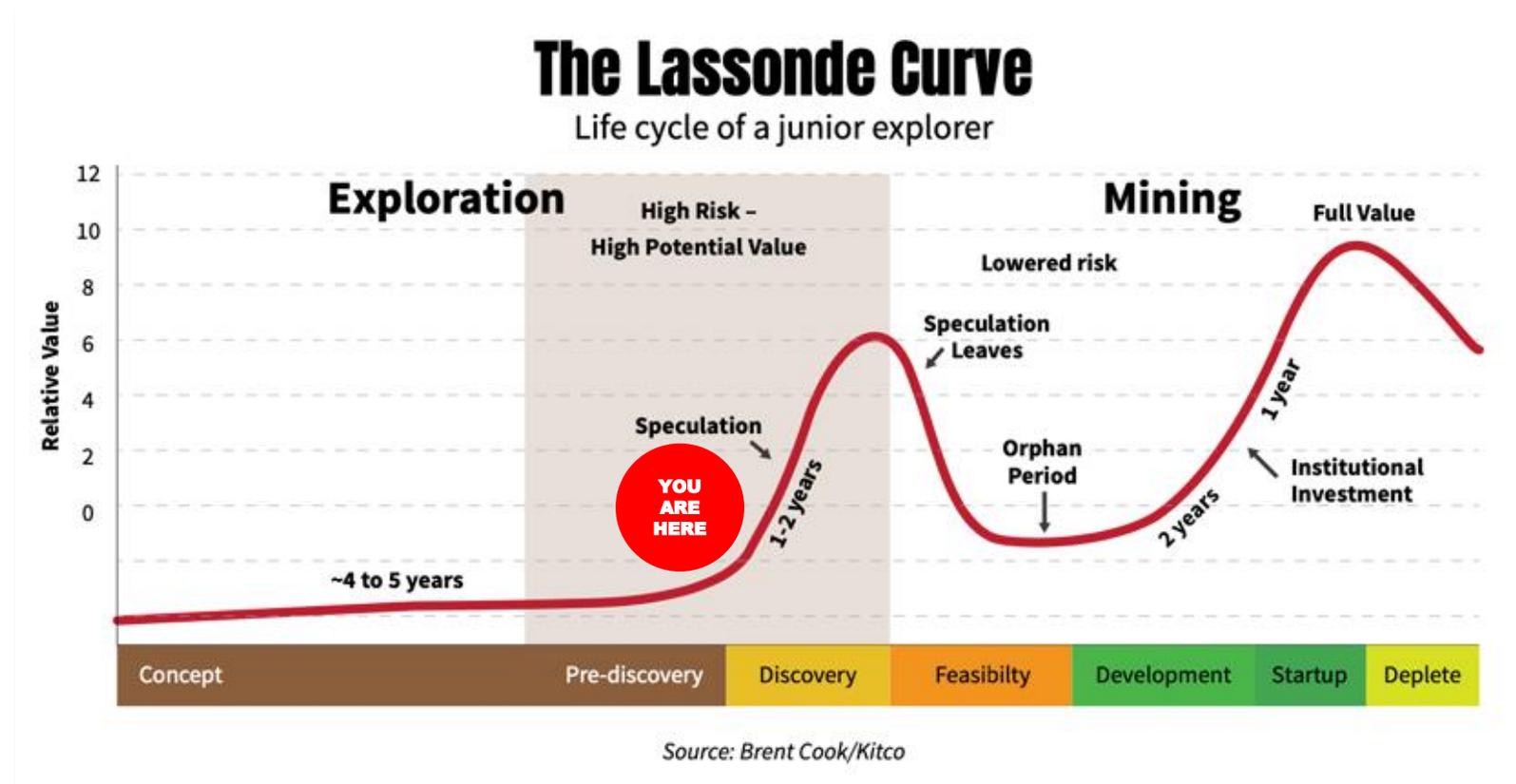
Information on historical results for all projects within this presentation, including JORC Table 1 and 2 Information, is included in the Miramar Resources Limited Prospectus dated 4 September 2020.

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

Aiming to create shareholder value through discovery

Strategy

- Explore for in-demand commodities
 - **Gold**
 - **Critical minerals**
- Acquire **underexplored projects** in world-class mineral provinces
- **Systematic exploration** using best practise
- Leverage off **existing mining /processing infrastructure**



Key Projects

Project	Gidji JV (80%)	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 Starra



Strategic landholding in WA's Eastern Goldfields



636km² land position in world-class gold province

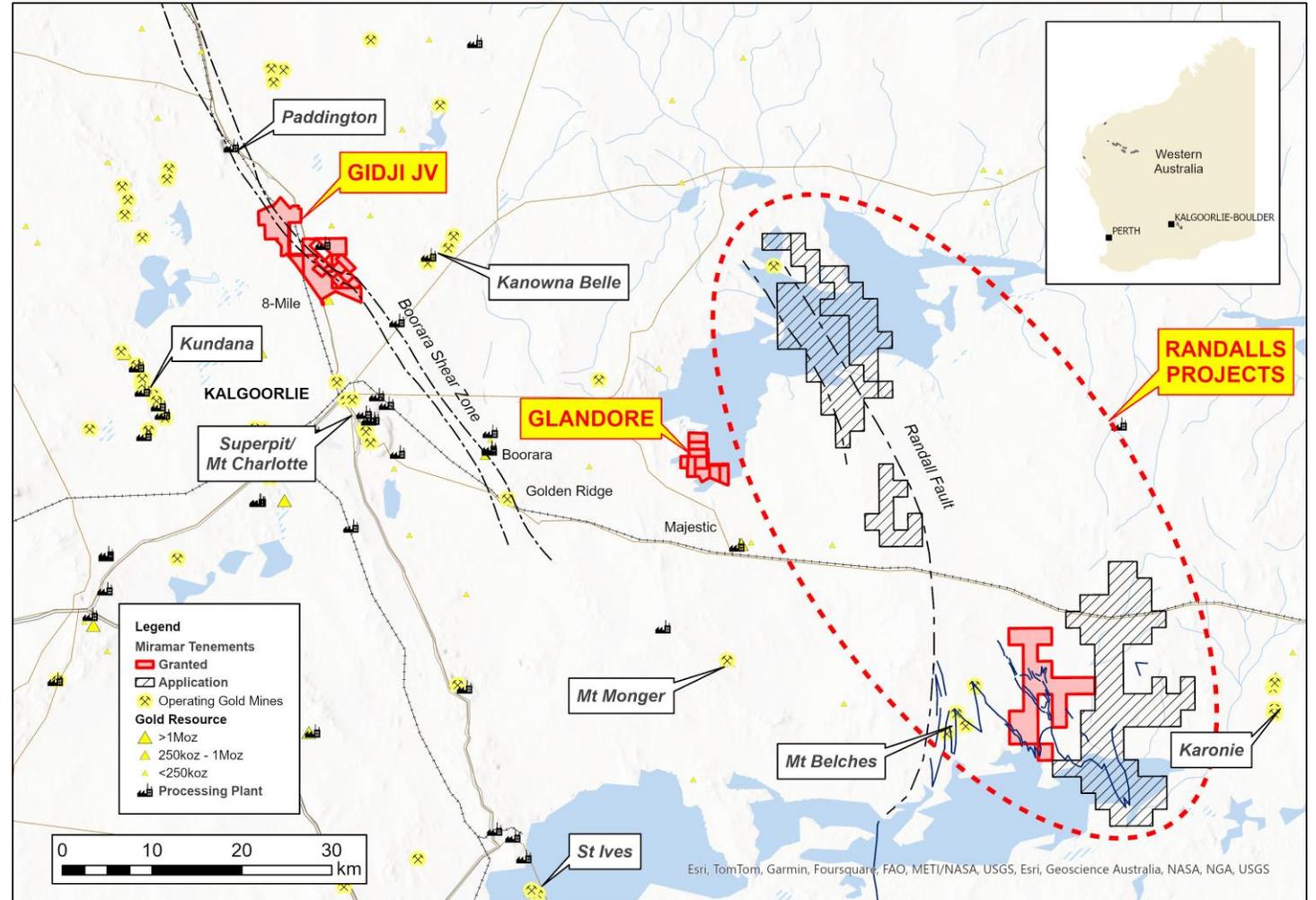


Underexplored camp-scale gold projects

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



Proximity to multiple gold mining and processing operations





MIRAMAR
RESOURCES LTD.

Gidji JV

Potential new gold camp

Au



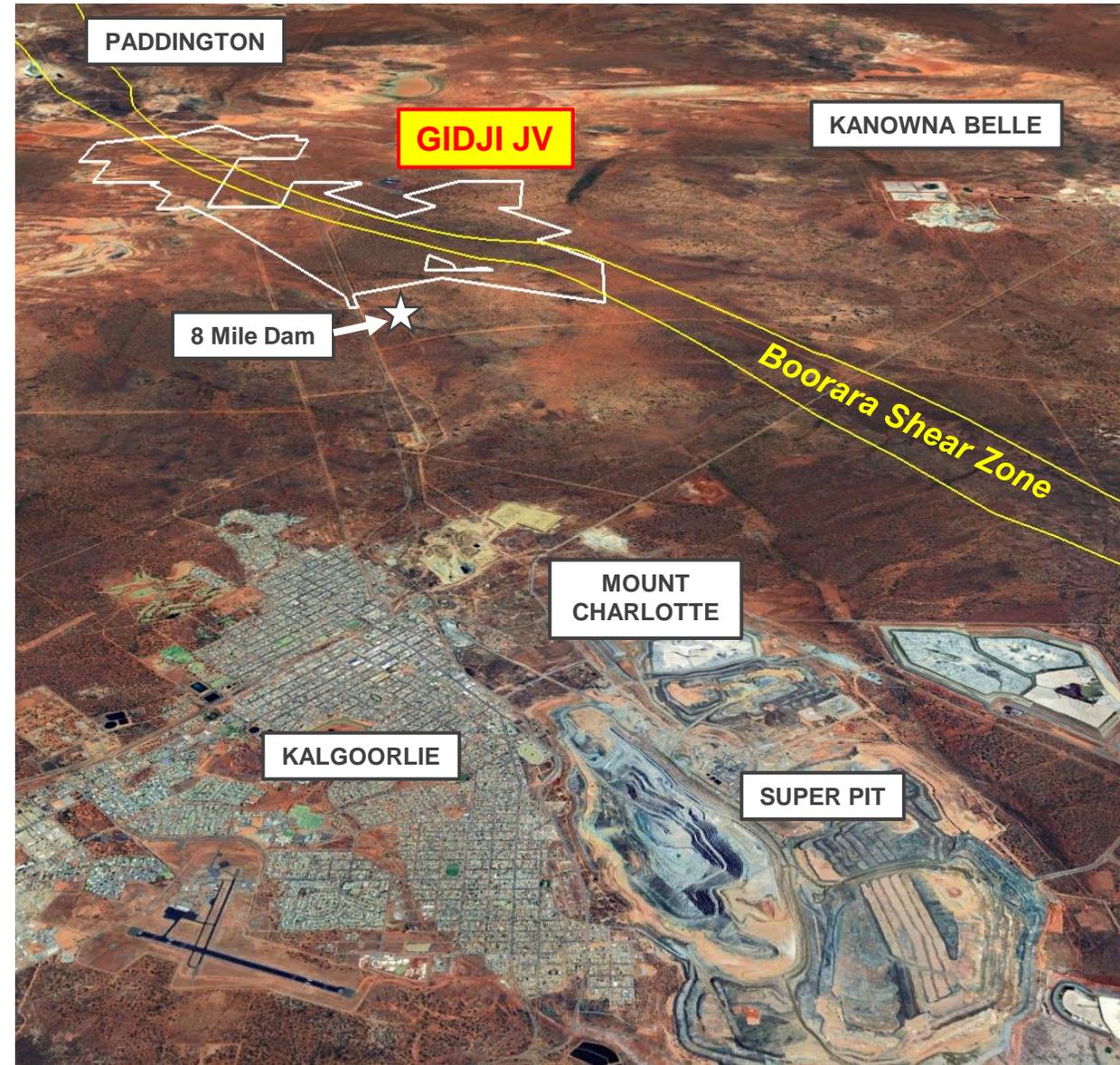
Gidji JV

“The cheapest house in the best street”

- 15km N of Kalgoorlie via major highway
- Surrounded by multiple major gold deposits and/or processing plants
- Potential extension to NST’s “8 Mile Dam” gold deposit (313koz)

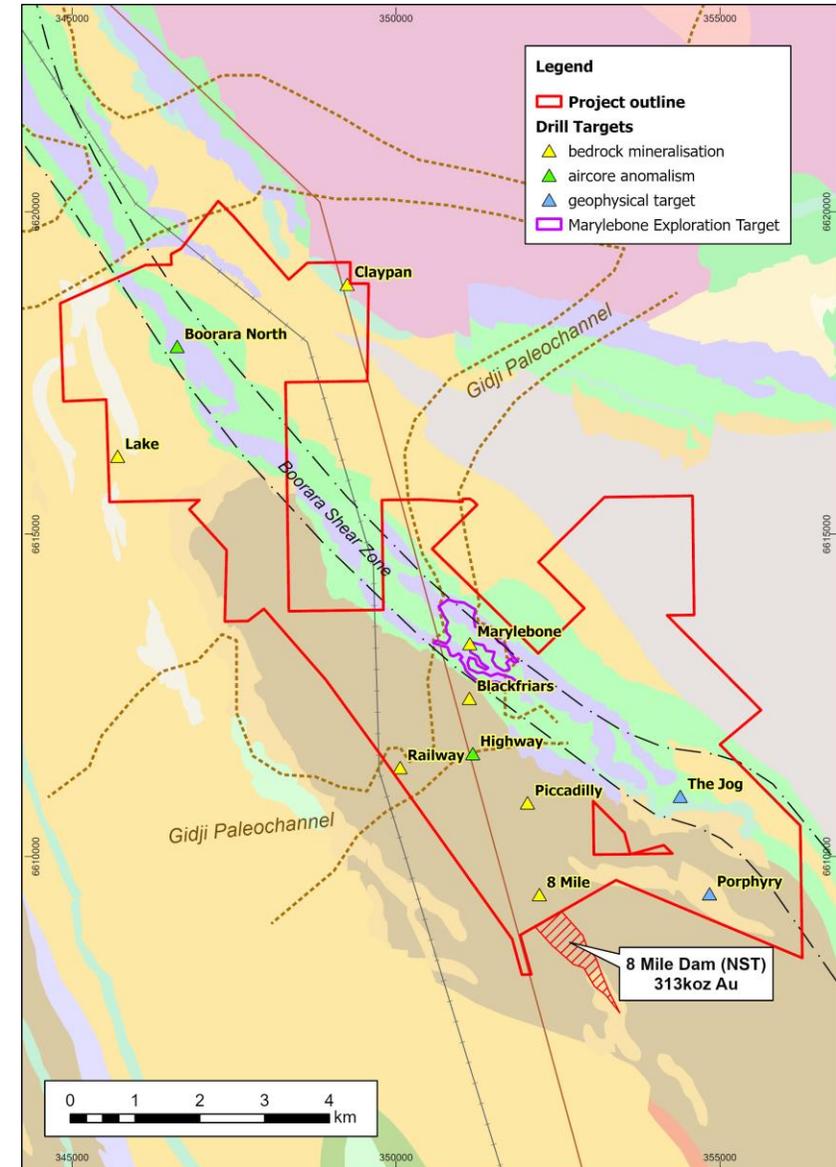
Key ingredients for discovery of a new gold camp with potential for multiple deposits

- ✓ Dilational jog in major mineralised structure – **Boorara Shear Zone**
- ✓ **Underexplored** - transported cover and paleochannel hampered previous exploration



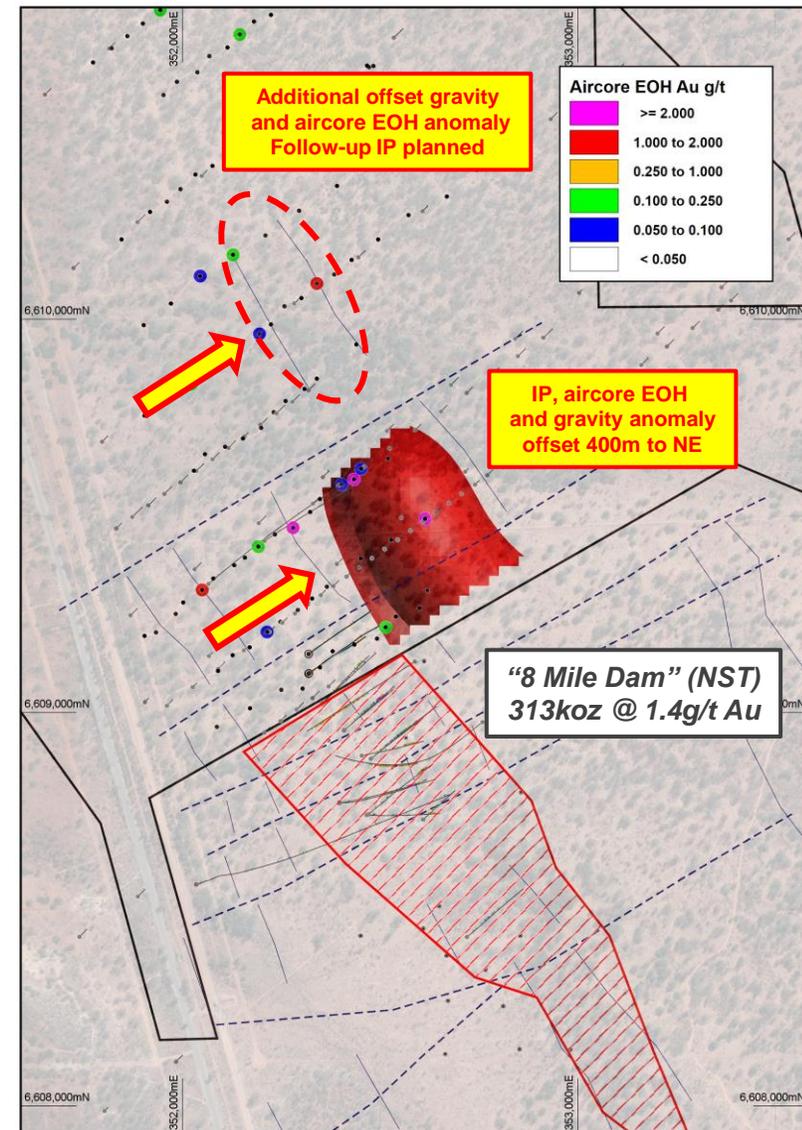
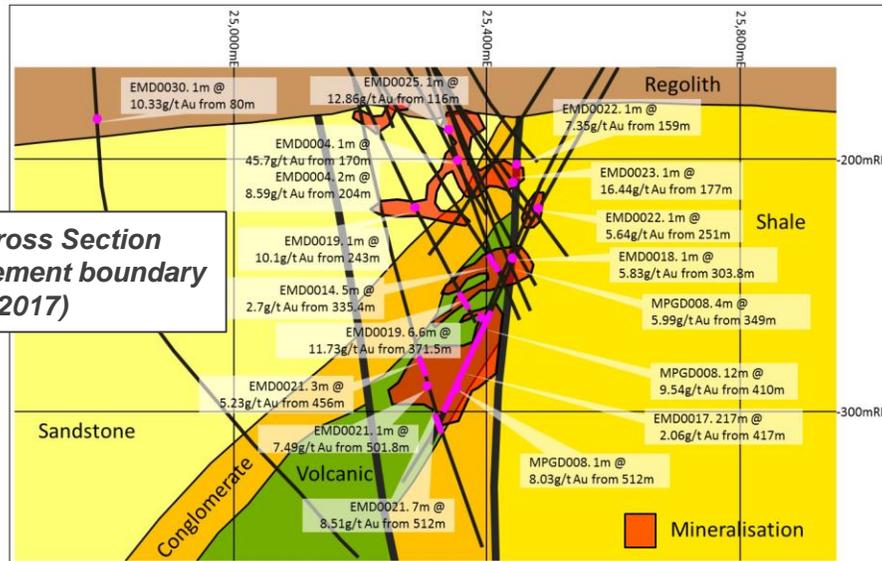
Gidji JV

- 15km strike of Boorara Shear Zone – host to multiple significant gold deposits
 - Paddington (>2Moz)
 - Boorara (450koz)
- Miramar has made multiple gold discoveries with systematic aircore drilling
 - Marylebone
 - Blackfriars
 - Highway-Piccadilly
 - Railway
- Multiple bedrock targets identified for RC/diamond drill testing



8-Mile Target

- Potential extension to “8 Mile Dam” deposit
 - **313koz @ 1.4g/t Au**
- Aircore EOH results, gravity and IP data highlight bedrock target offset by NE faults
- Follow-up IP and bedrock drilling planned



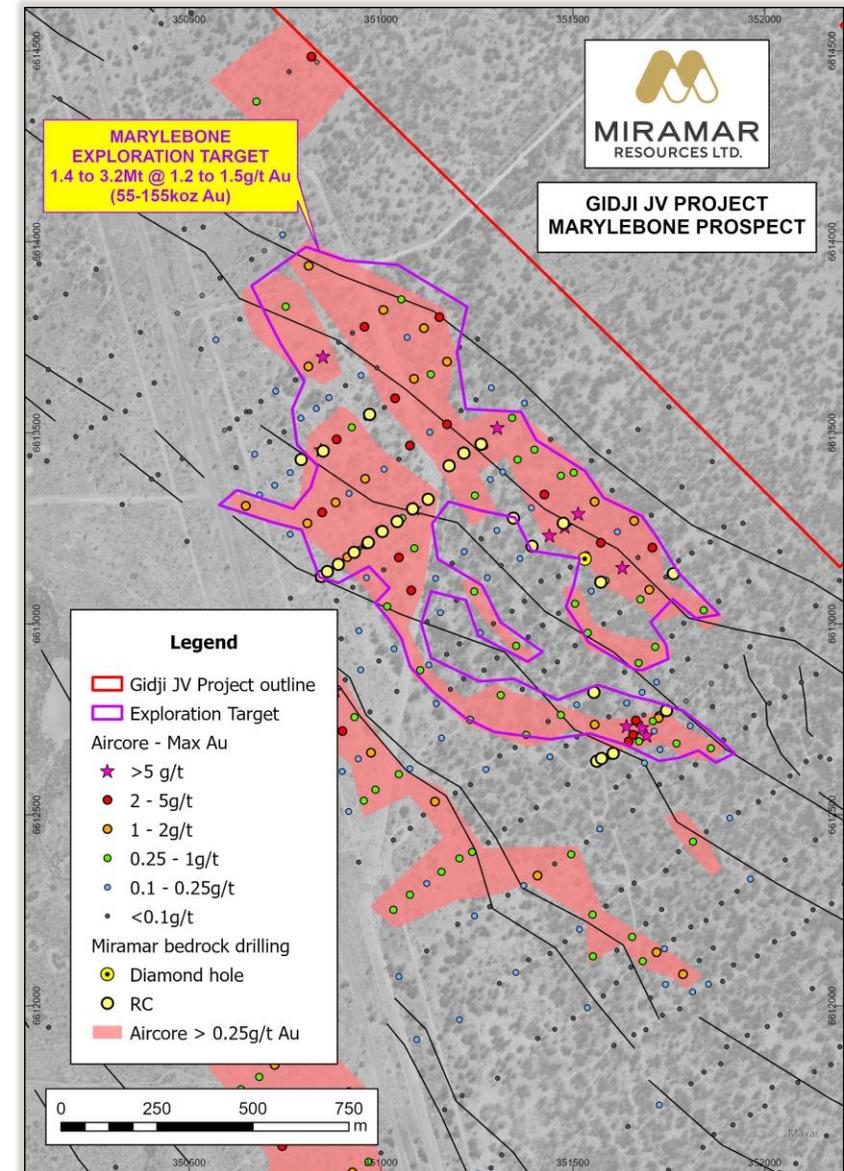
Marylebone

Large gold footprint beneath paleochannel

- Mafic-U/M-sediment package within 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**
- Limited bedrock drilling to date

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

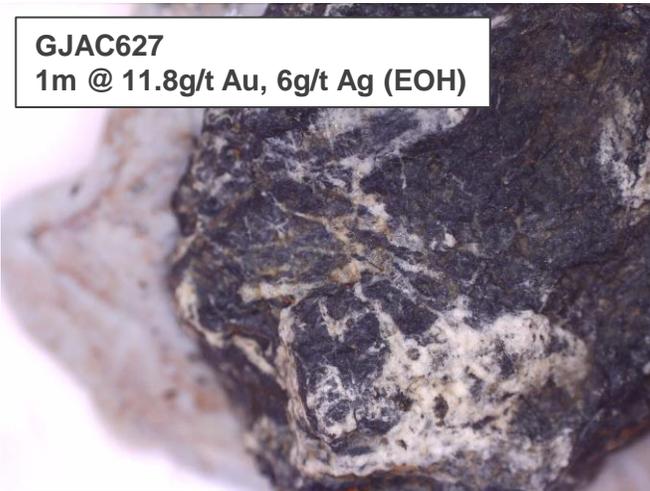


Blackfriars

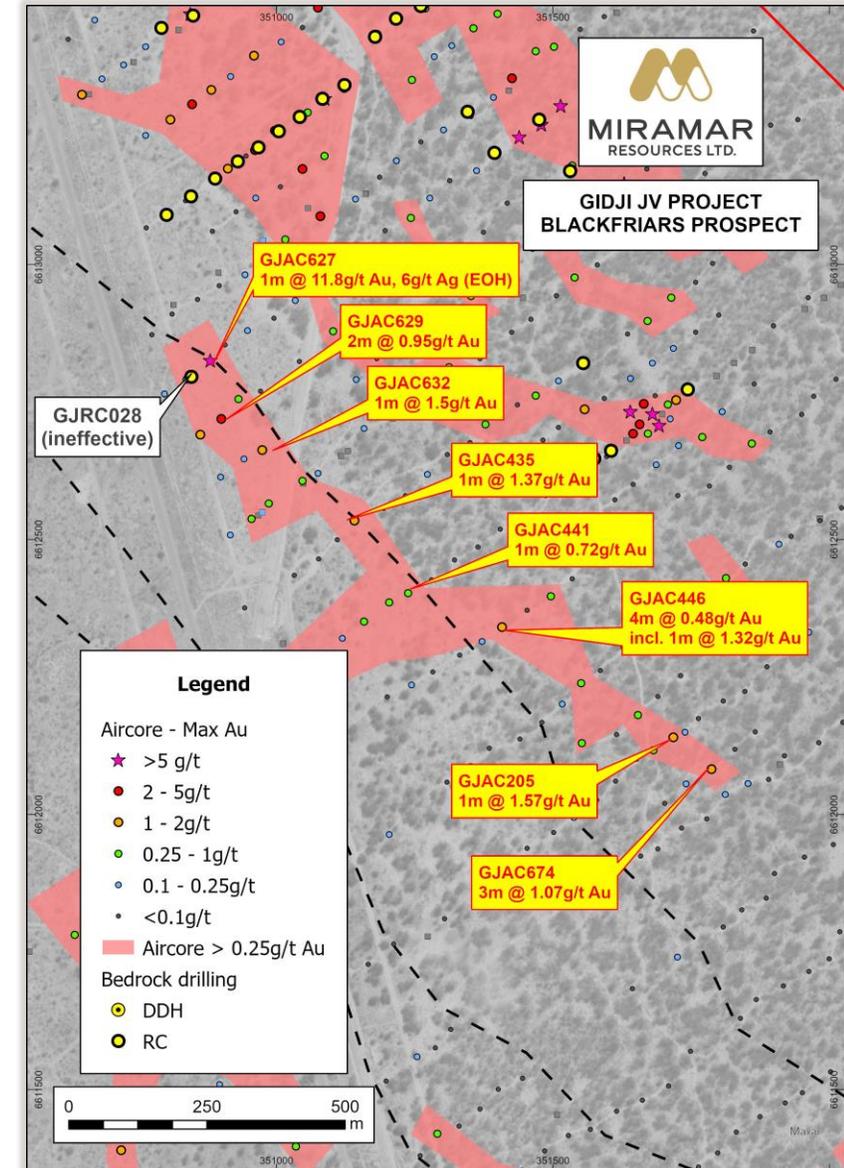
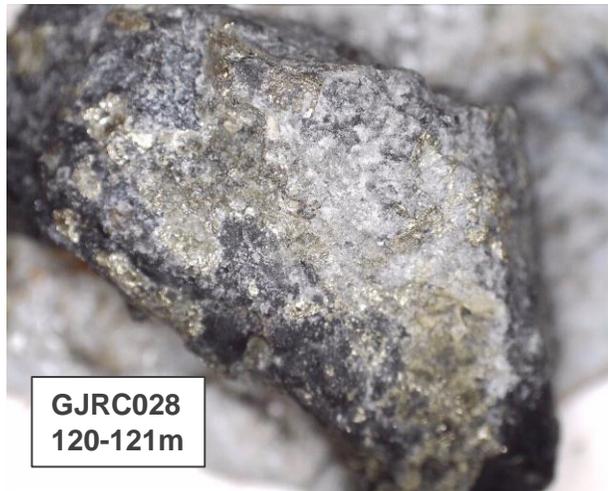
“Paddington lookalike” target

- Quartz dolerite with sulphides at Black Flag/Boorara Shear Zone contact
- 1km long aircore anomaly >1g/t Au
 - **GJAC627– 1m @ 11.8g/t Au, 6g/t Ag (EOH)**
 - **GJAC674 – 3m @ 1.07g/t Au**

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

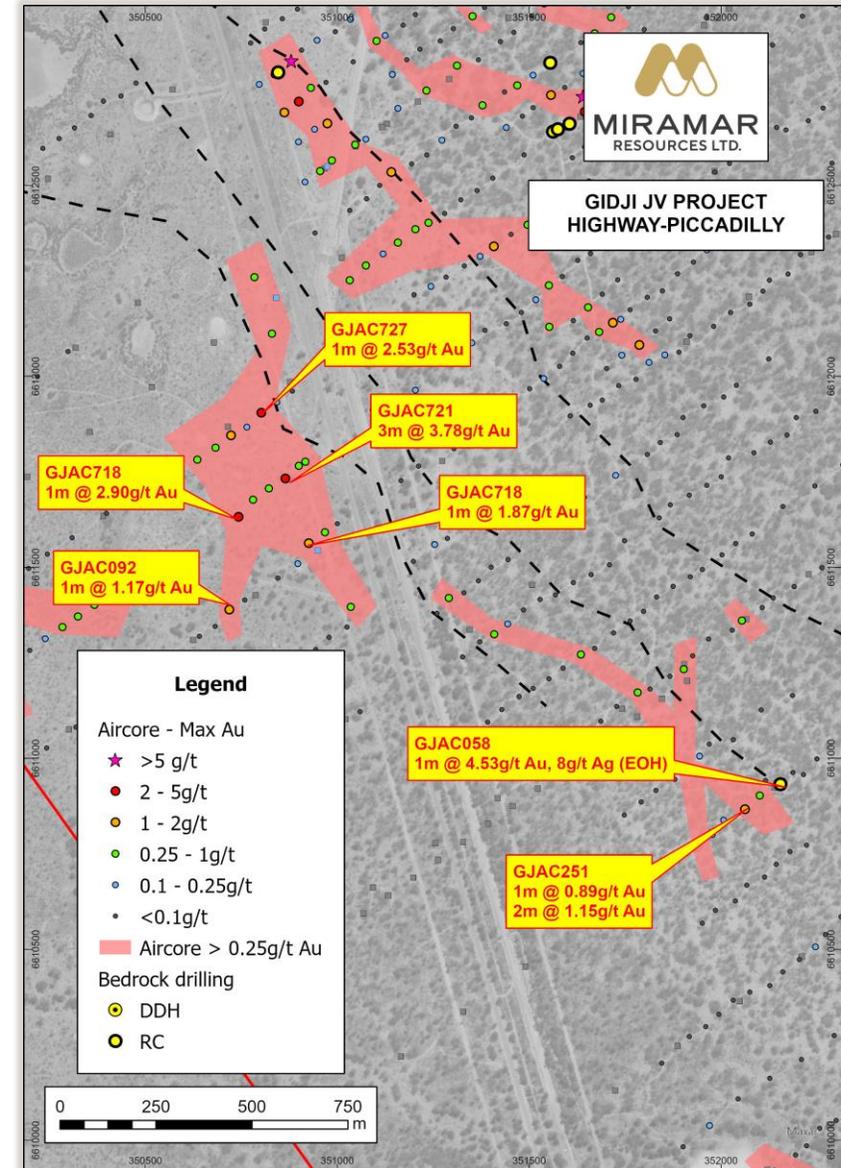


GJRC028
120-121m



Highway-Piccadilly

- 1.8km long aircore gold anomaly
- **Highway** - potential intrusion within Black Flag Group sediments
 - **GJAC721 - 3m @ 3.78g/t Au**
- **Piccadilly** - dolerite intruding in shale/siltstone
 - **GJAC058 - 1m @ 4.53g/t Au, 8g/t Ag**





MIRAMAR
RESOURCES LTD.

Bangemall

Exploring for Ni-Cu-Co-PGE's

Ni

Cu

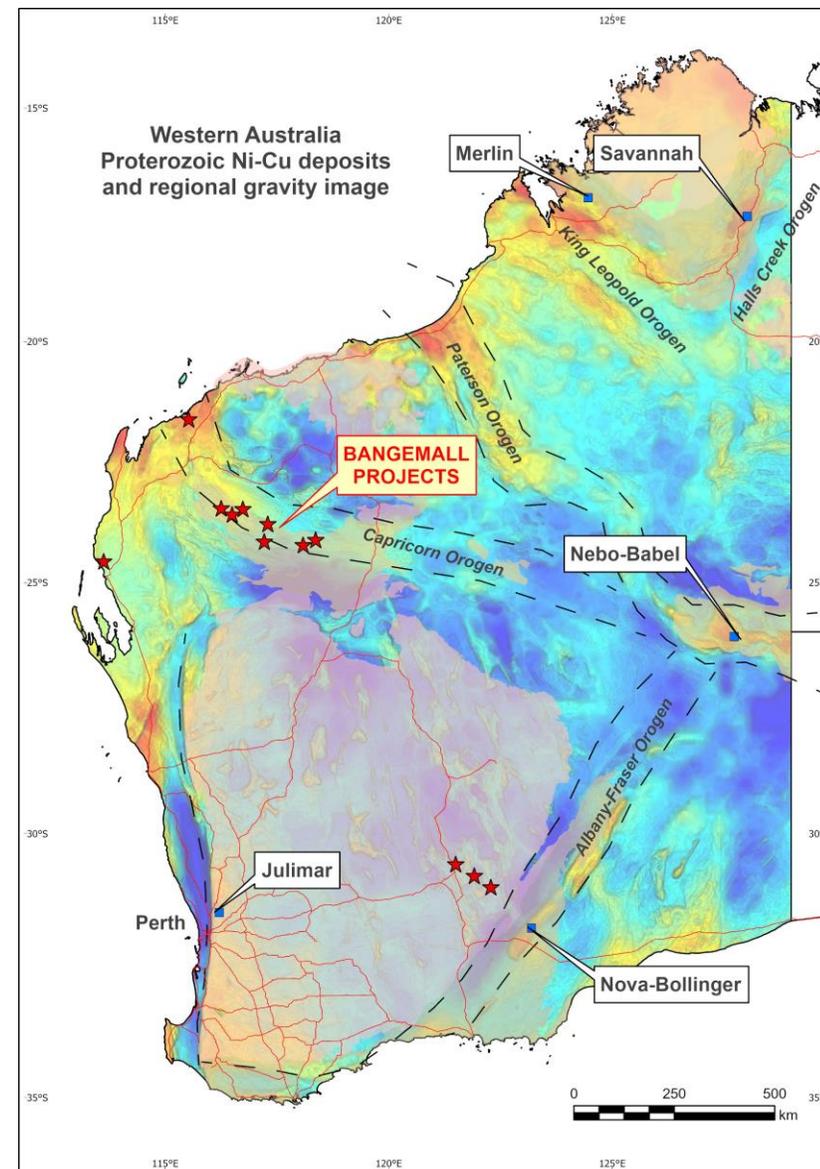


Bangemall Projects

Exploring for Norilsk-style Ni-Cu-Co-PGE mineralisation in the underexplored Capricorn Orogen

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

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



Q: Why explore for nickel in the current market?

A: Not all nickel deposits are created equal!

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

✓ Large

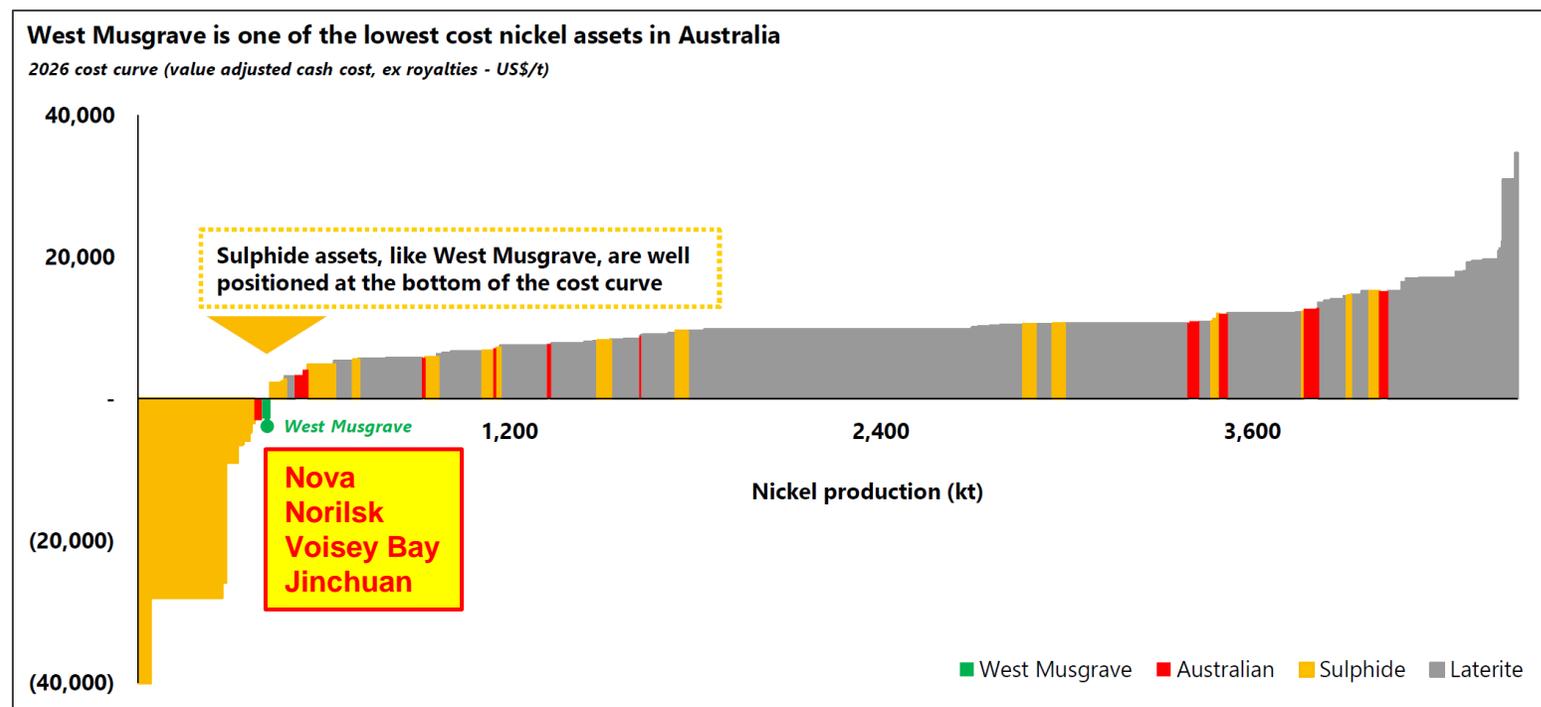
- 100's Mt to >1Bt of ore
- 0.1Mt to >1Mt of Nickel

✓ Valuable

- High-grade/tenor

✓ Low-cost/high-margin

- High tonnes/vertical metre
- By-product credits



Source: OZ Minerals Sept 2022

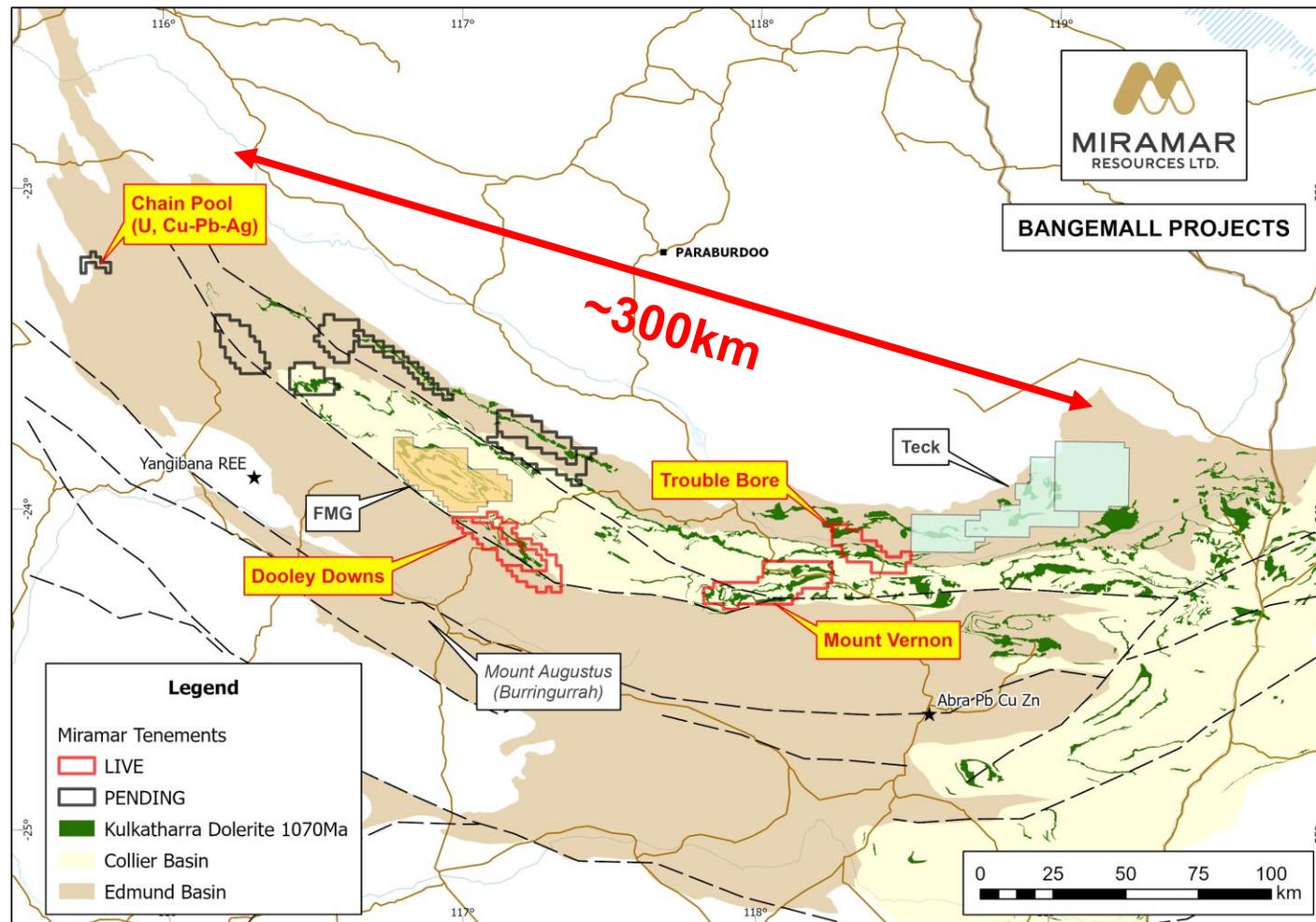
Bangemall – potential new Ni-Cu-Co-PGE Province

Strategic 2,100km² district-scale landholding

- 100%-owned
- First mover status
- Interest from majors

Key ingredients for Norilsk-style Ni-Cu-Co-PGE's

- ✓ Kulkatharra Dolerite sills
- ✓ Major crustal-scale faults
- ✓ Sulphide/sulphate-rich sediments
- ✓ Regional geochem/EM



Bangemall Ni-Cu potential recognised

GSWA Report 99 (2005):

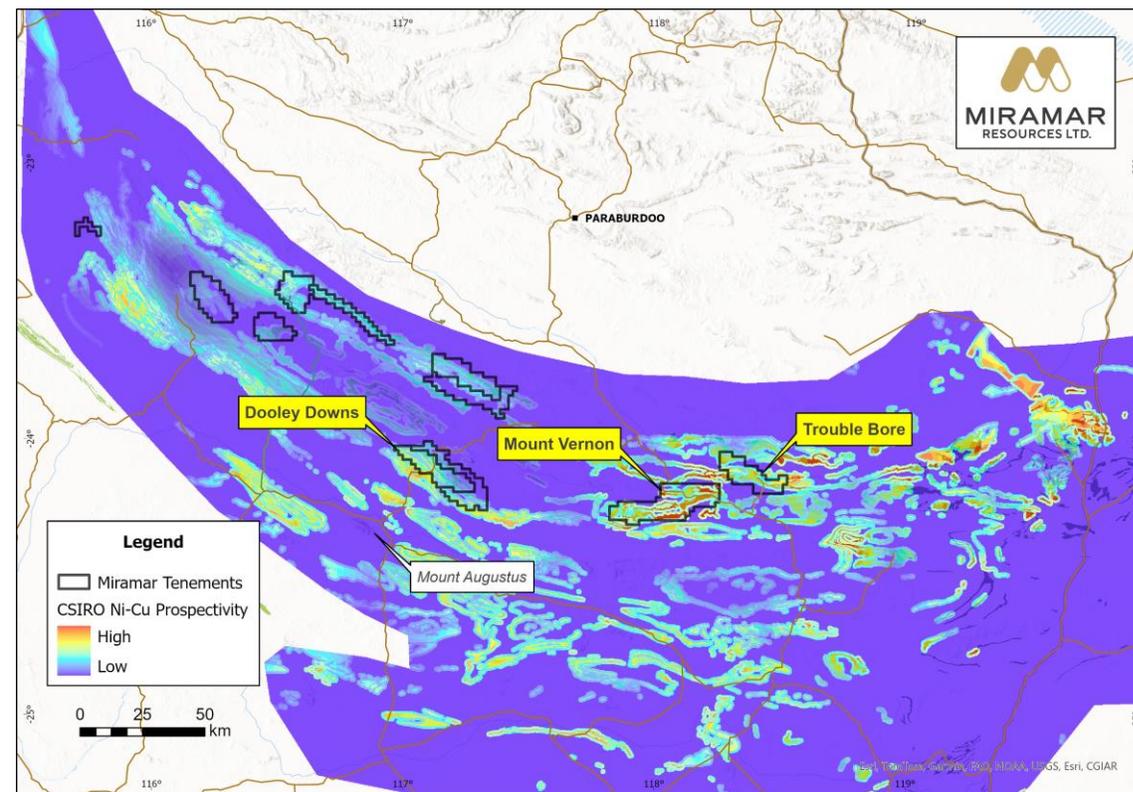
- “*The Western Bangemall Supergroup with its thick mafic sill complex would be a prime target for Ni-Cu-PGE sulphides*”
- “*The Bangemall Supergroup is considered to be highly prospective for Norilsk-style Ni-PGE deposits in the sill complexes*”

Geoscience Australia (2016):

The geological units of moderate to high potential in the Ashburton region include:

- “*Kulkatharra Dolerite (1070 ± 6 Ma) within the Warakurna LIP present as sills within the Edmund and Collier Basins*”
- “*Units with high potential in this area largely reflect the presence of Warakurna LIP magmatism in the region and the presence of identified crustal breaks*”
- “*... the co-magmatic intrusive complexes rather than the volcanics that should be targeted for tholeiitic intrusion-hosted Ni-Cu-PGE sulfide mineralisation*”

CSIRO Ni-Cu Prospectivity Mapping (2017)

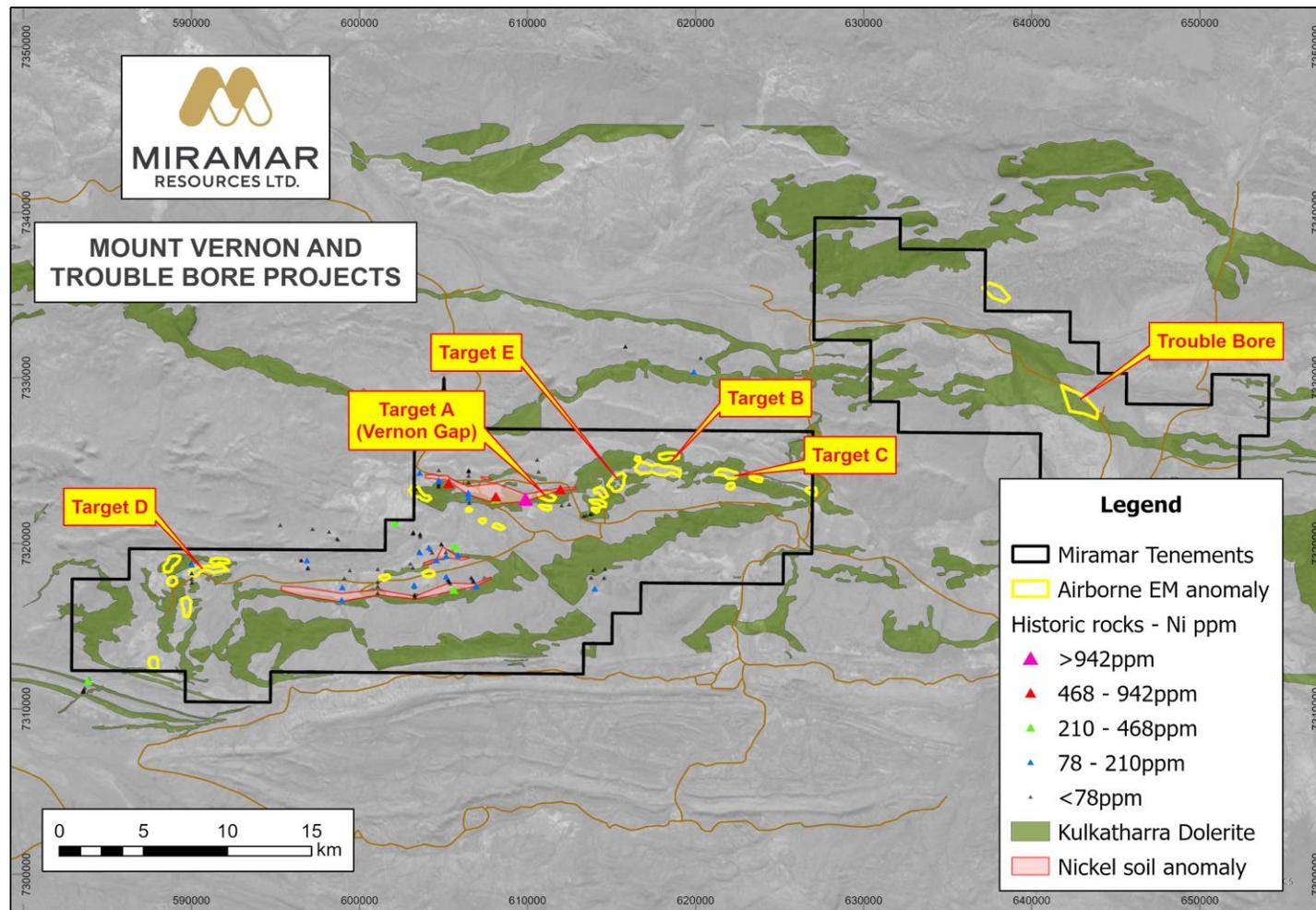


Multiple targets outlined for maiden drill campaign

- **Kulkatharra Dolerite** sills intruding into **sulphidic** and/or **evaporite sediments**
- Geochemical indicators
- **Sulphides** in outcrop
- Multiple late-time airborne and ground **EM conductors**

Maiden drill campaign

- ✓ \$180K EIS funding
- ✓ POW approval





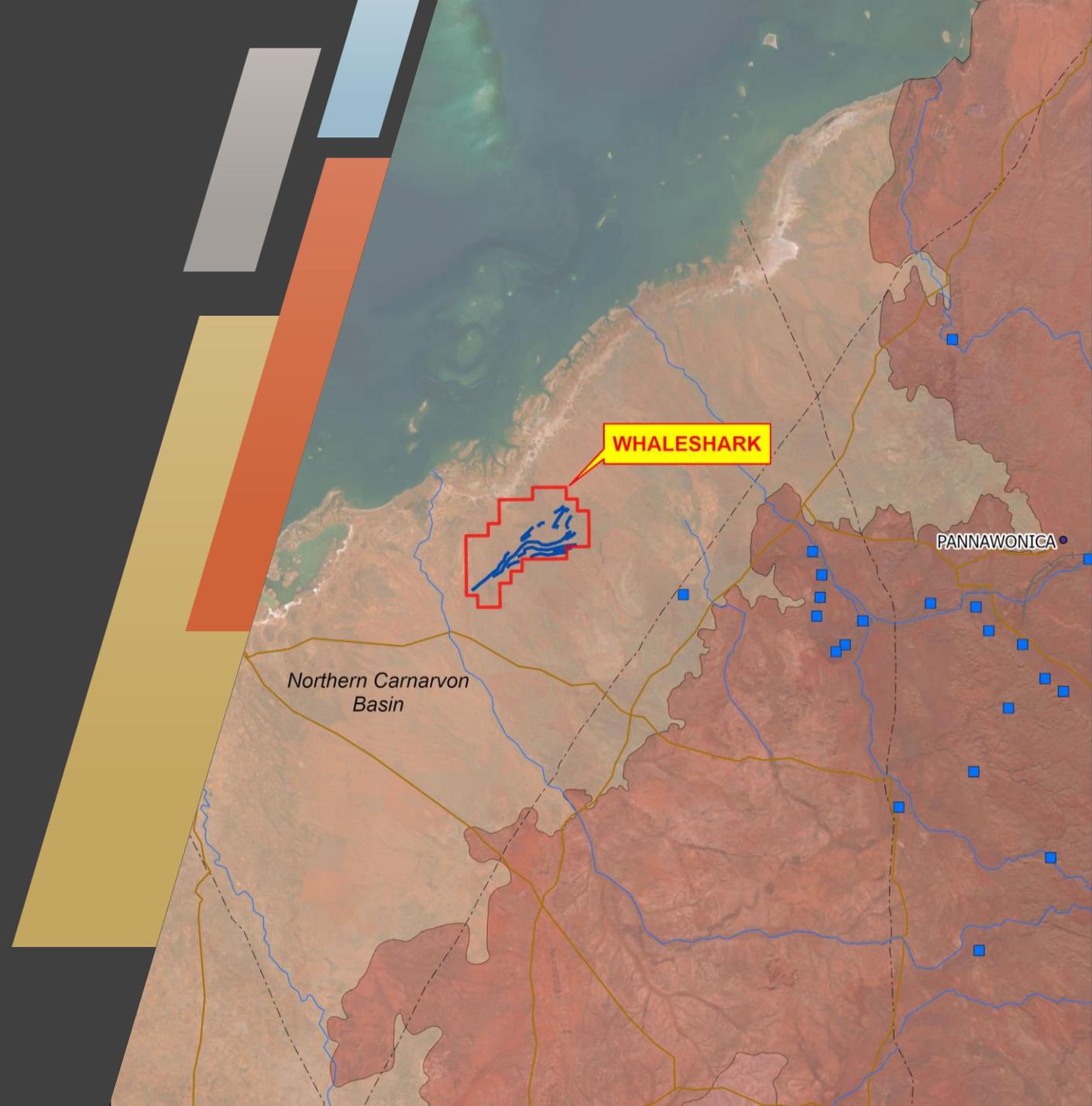
MIRAMAR
RESOURCES LTD.

Whaleshark

Multi-commodity project in
infrastructure-rich area

Cu

Au



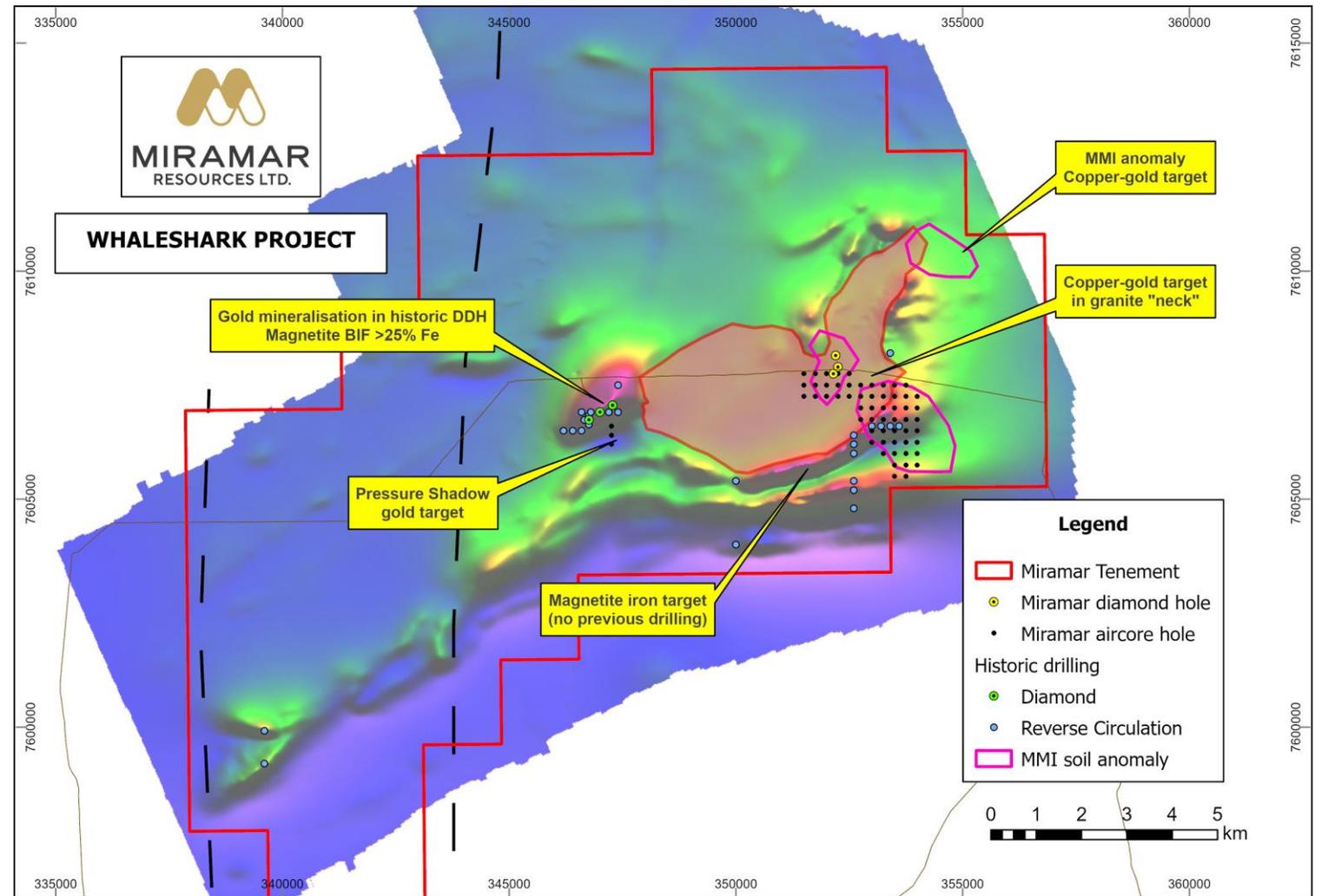
Whaleshark

Multi-commodity potential

- **Gold** mineralisation in BIF
- **Copper** sulphides in granodiorite
- Large **magnetite iron** targets

Infrastructure-rich area

- Major highway
- Gas pipeline
- Port facilities
- Magnetite mine/concentrator





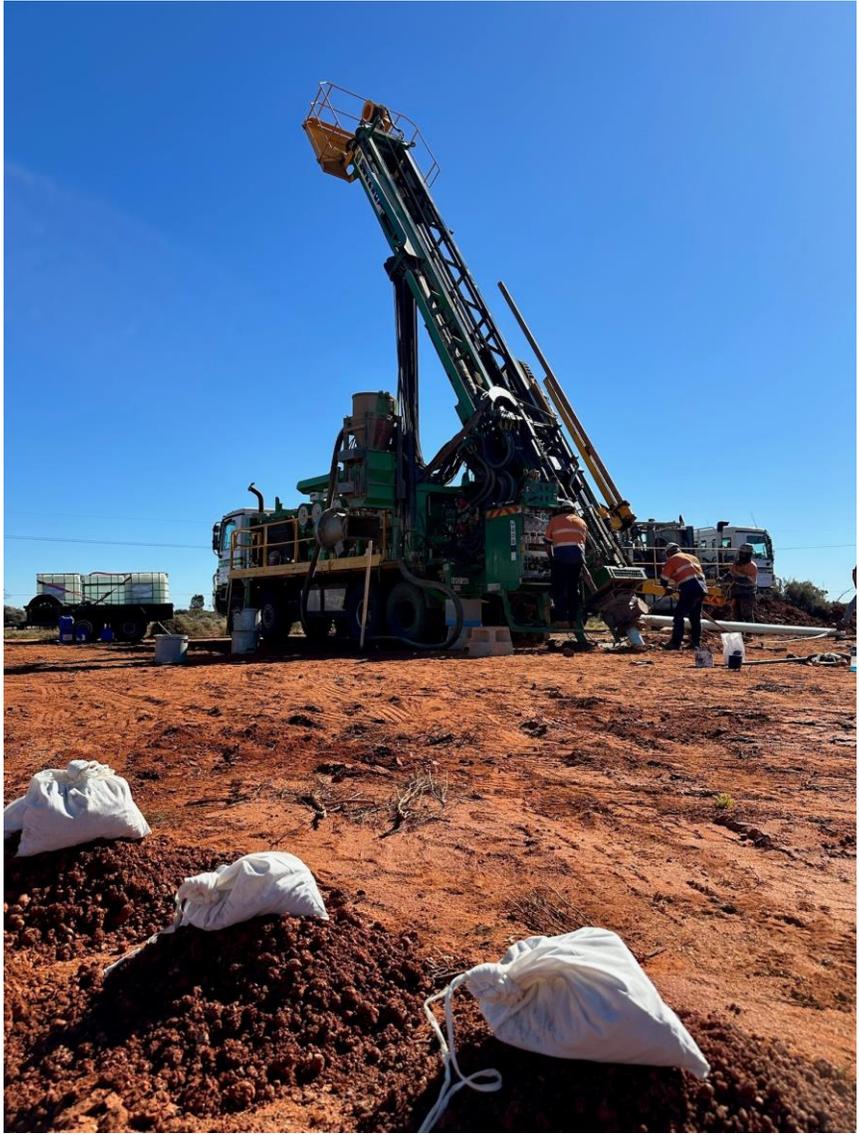
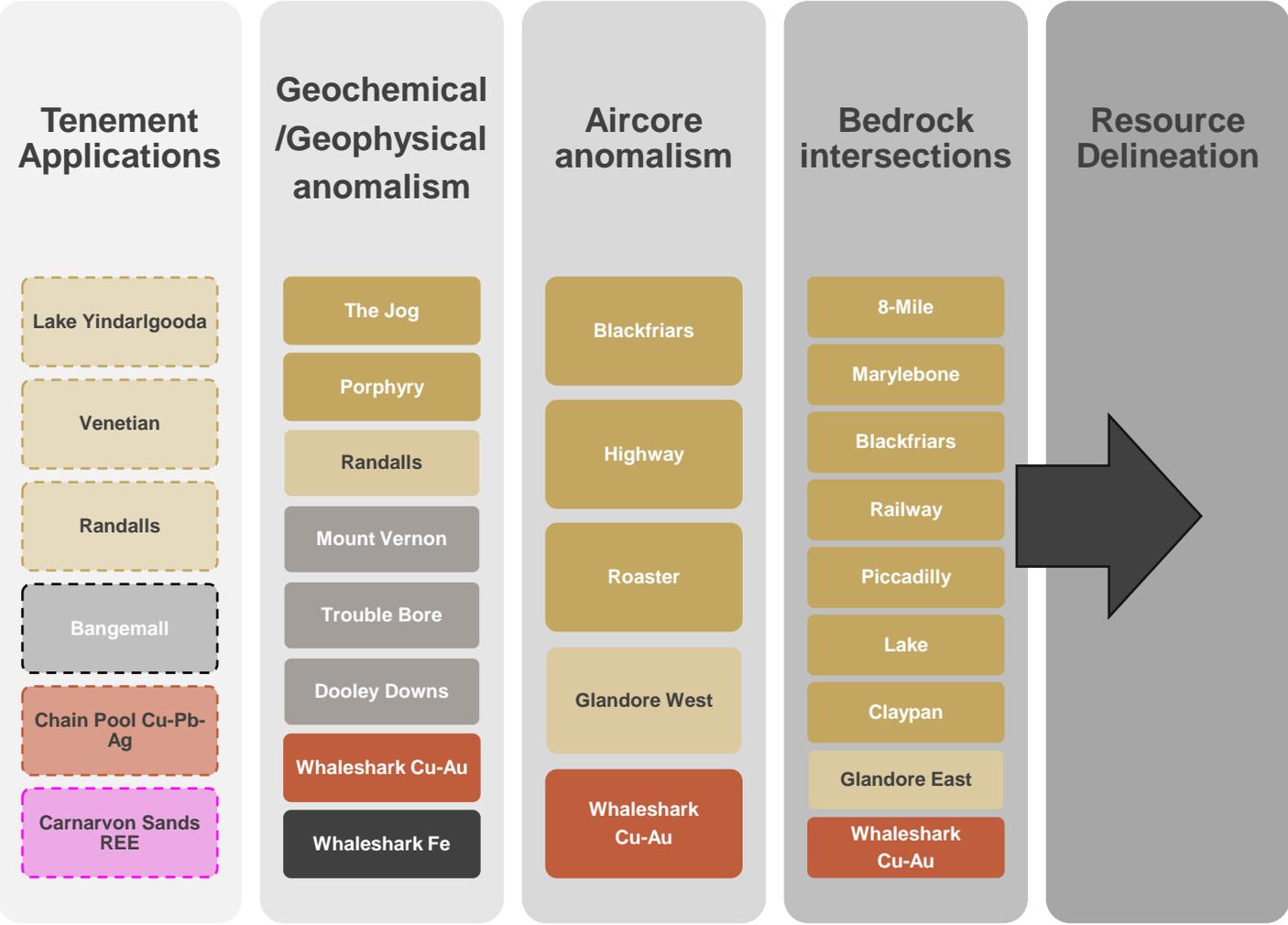
MIRAMAR
RESOURCES LTD.

Summary

Au



Exciting Target Pipeline



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

ASX Code	M2R
Shares on Issue	186.1M
Listed Options (@ 25c)	59.7M
Market Cap	\$1.9M
Cash (Mar 24)	\$0.2M
Enterprise Value	\$1.7M

Major shareholders	%
XGS/Allorah (Kelly)	7.5
Claudio Della Franca	5.4
Faraday Investments	5.2
Buprestid Pty Ltd	5.1
<u>Top 20</u>	<u>46.8</u>

2024 Work Programme

June Quarter

- Map depth to basement at **Whaleshark** with passive seismic survey - **completed**
- Follow-up IP survey over **8-Mile** extension target

September Quarter

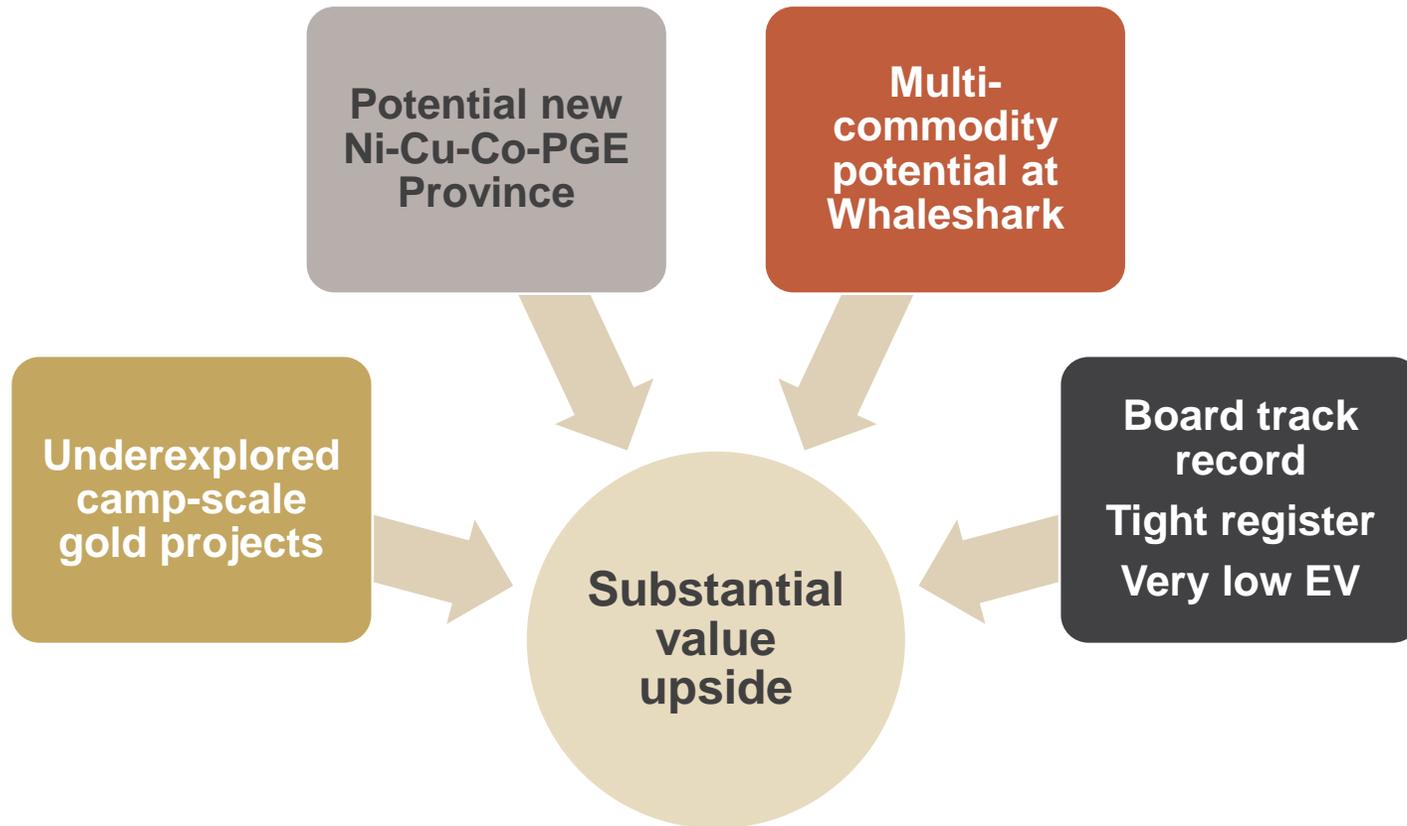
- Complete Entitlement Offer
- Drill test selected bedrock targets at **Gidji JV**
- Heritage survey, rock chip sampling and EIS co-funded RC drilling at **Mt Vernon** and **Trouble Bore**

December Quarter

- Close off aircore anomalies at **Gidji JV**
- Progress **Randalls** tenements to grant



Why Invest in Miramar?





MIRAMAR
RESOURCES LTD.

T:+ 61 8 6166 6302 | E: info@miramarresources.com.au

miramarresources.com.au | ASX: **M2R**





MIRAMAR
RESOURCES LTD.

Additional Projects

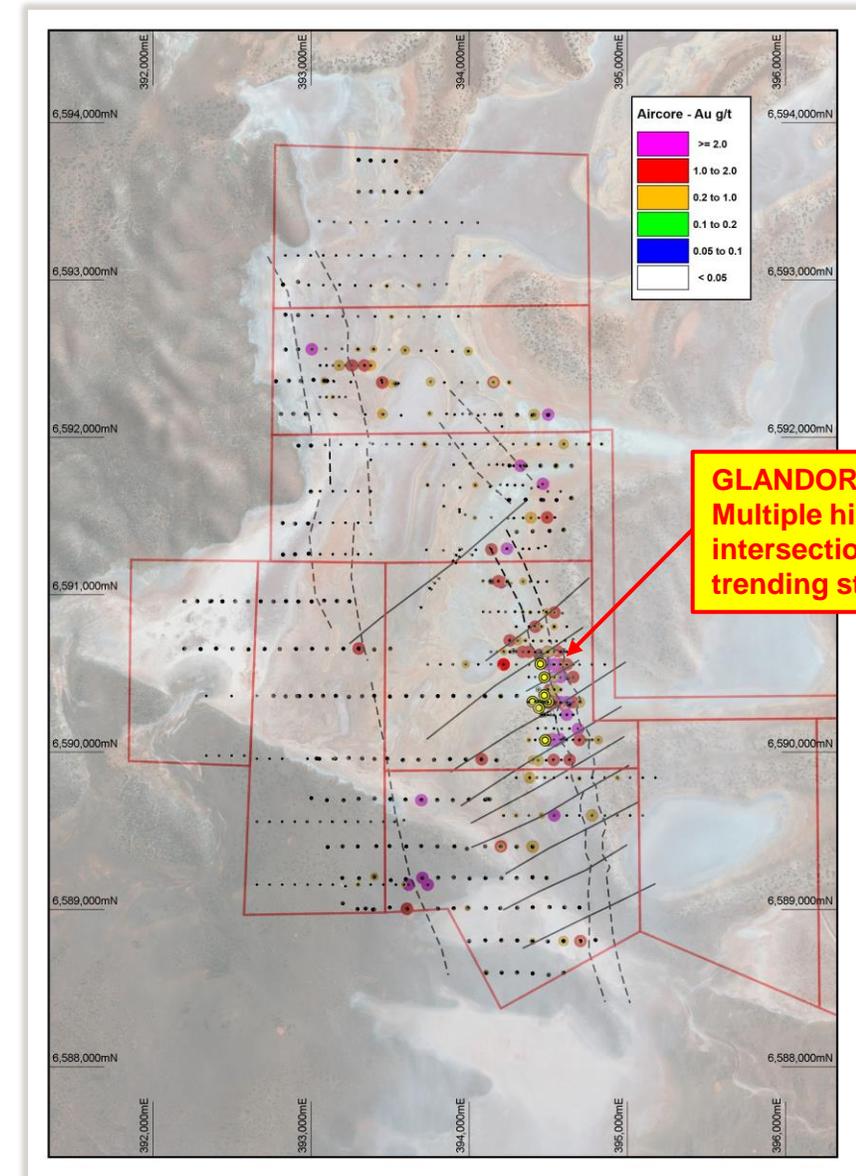
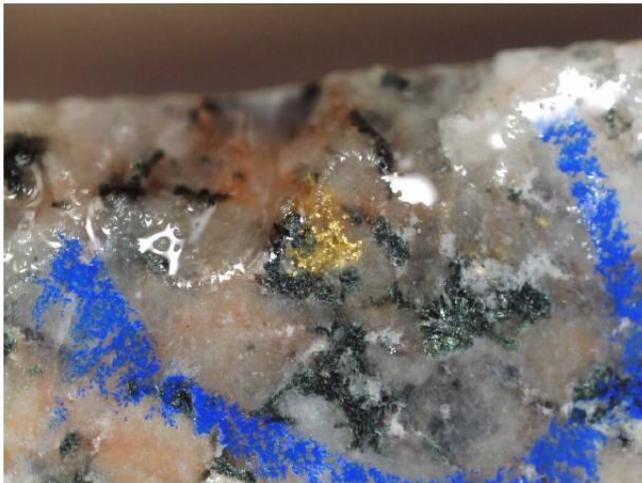


miramarresources.com.au | ASX: M2R



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

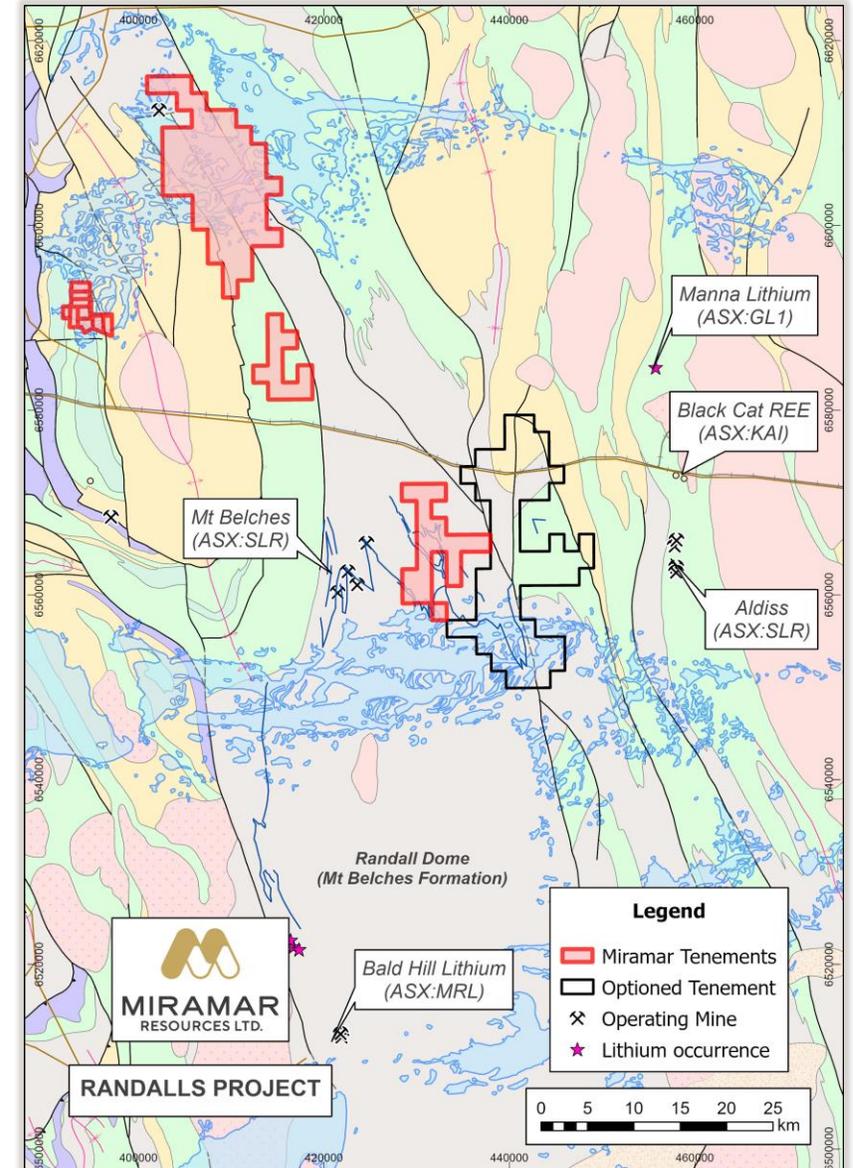
- 11km strike of aircore gold anomalism
- Similar geology/structure to 2Moz Invincible gold deposit (St Ives)

Venetian

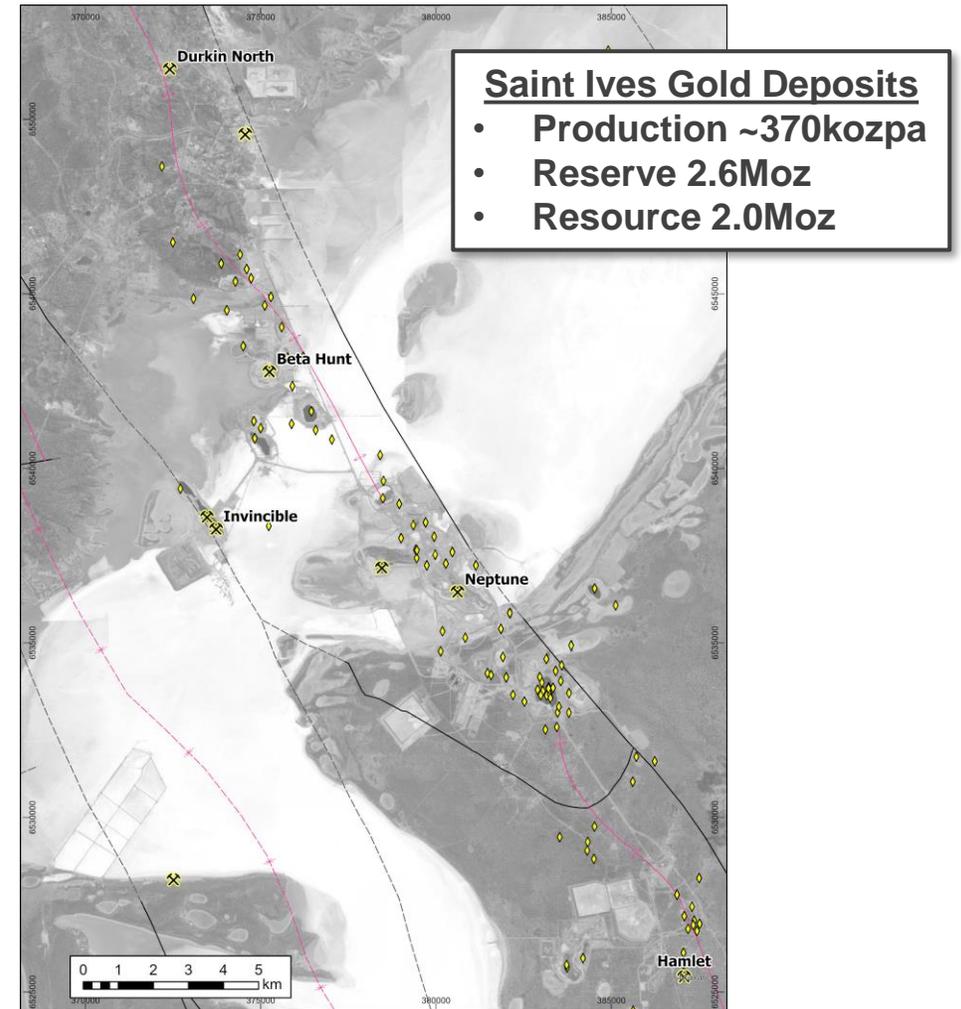
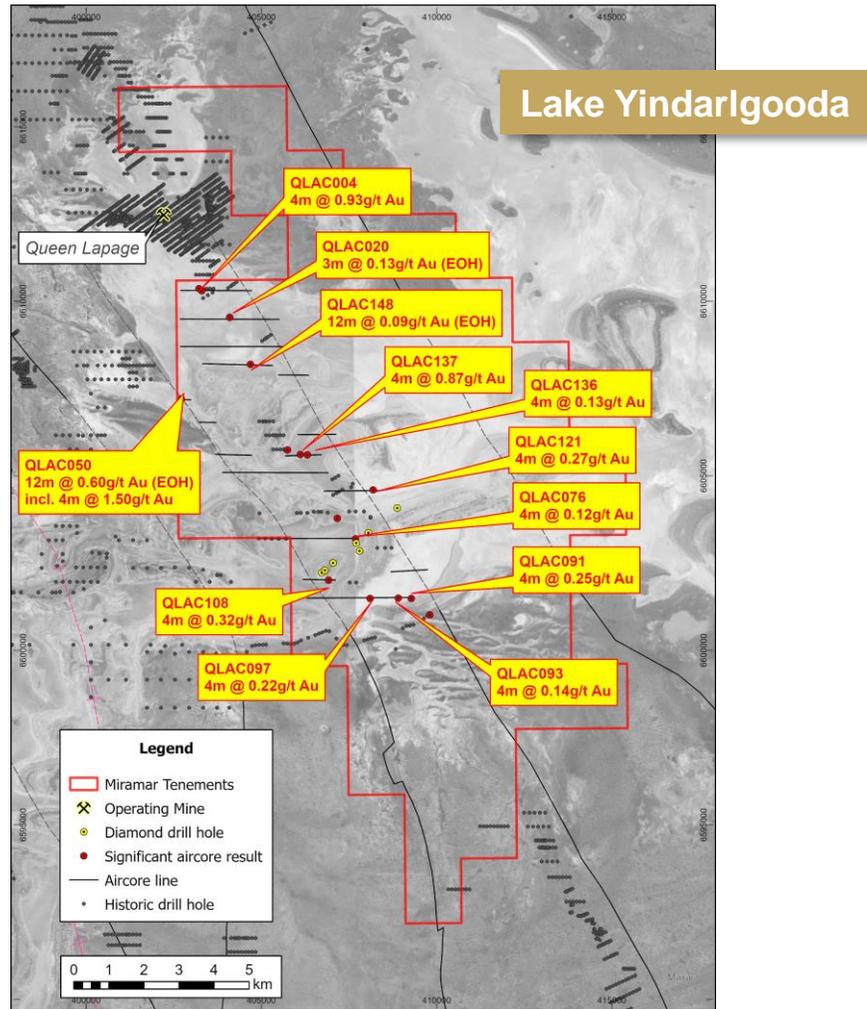
- Sporadic historic RAB drilling

Randalls

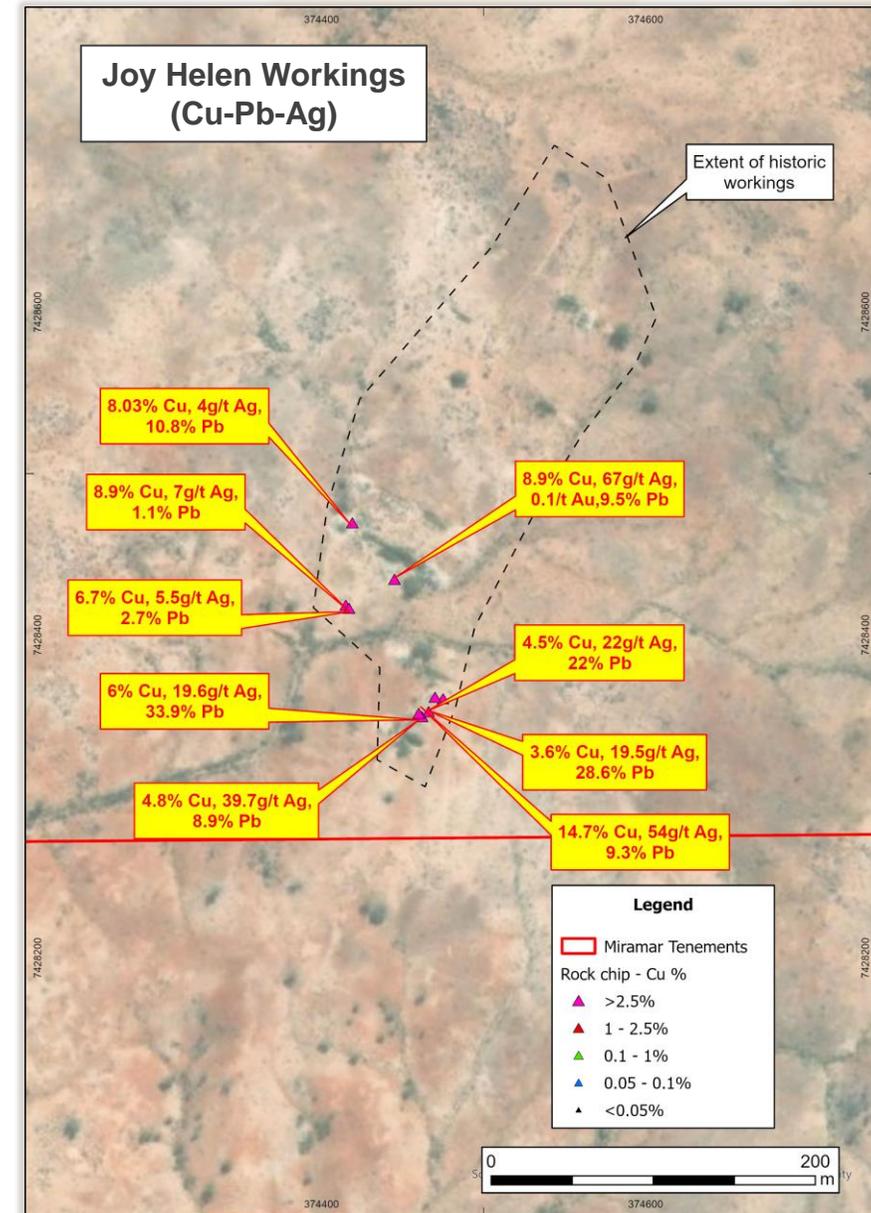
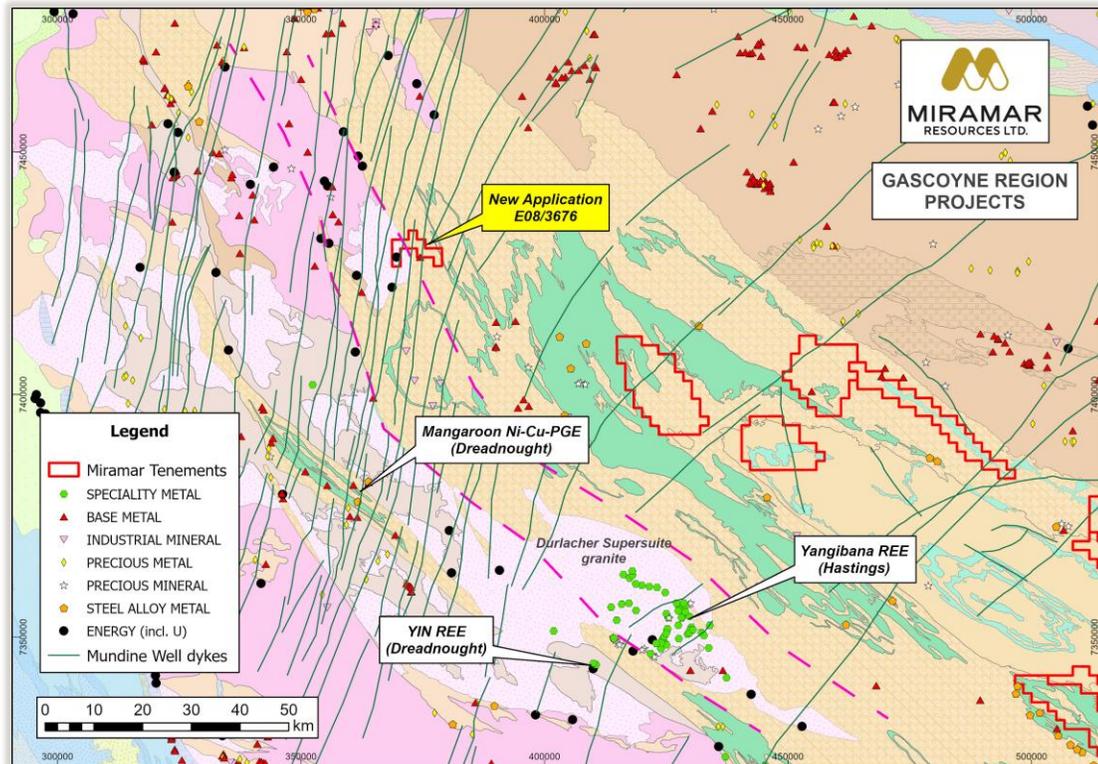
- Folded BIF adjacent to high-grade gold mines
- Confluence of major regional structures
- Gold-Lithium-REE potential (e.g. Manna, Bald Hill, Black Cat REE)



Lake Yindarlgooda – significant gold potential



Chain Pool



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

