

Gold and Critical Minerals Exploration

Company Update February 2025









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 – Highlights

Eastern Goldfields Projects

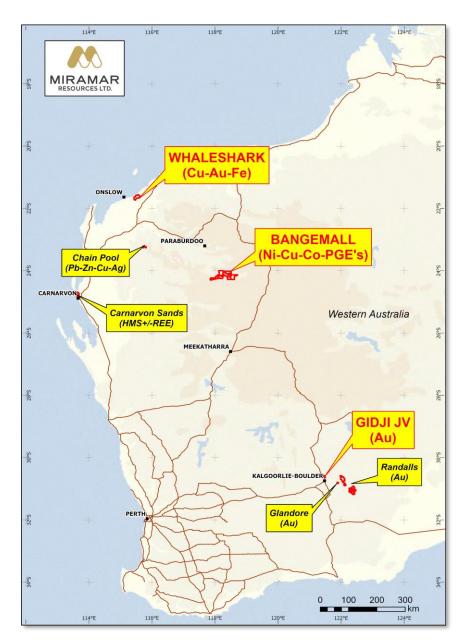
- Gidji JV emerging gold camp 15km north of Kalgoorlie
- Record gold price environment

Potential "Company Makers"

- Bangemall targeting large Ni-Cu-Co-PGE deposits in a new mineral province
- Whaleshark Cu-Au and magnetite

Substantial Upside

- Experienced Board with track record
- Funded for discovery in 2025



Aim and Strategy

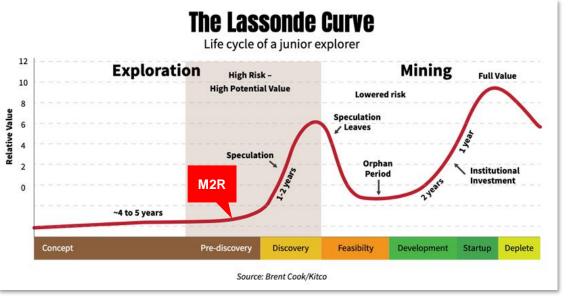
Aim:

"To create shareholder value through discovery"

Strategy

- Acquire underexplored projects in (potential) world-class mineral provinces - with nearby infrastructure if possible
- Recognise similarities with known deposits
- Systematic exploration using best practise
- Maximise in-ground exploration spend
 - ~70% of cash spent directly on exploration since listing in Oct 2020
- Rapidly assess/turnover targets

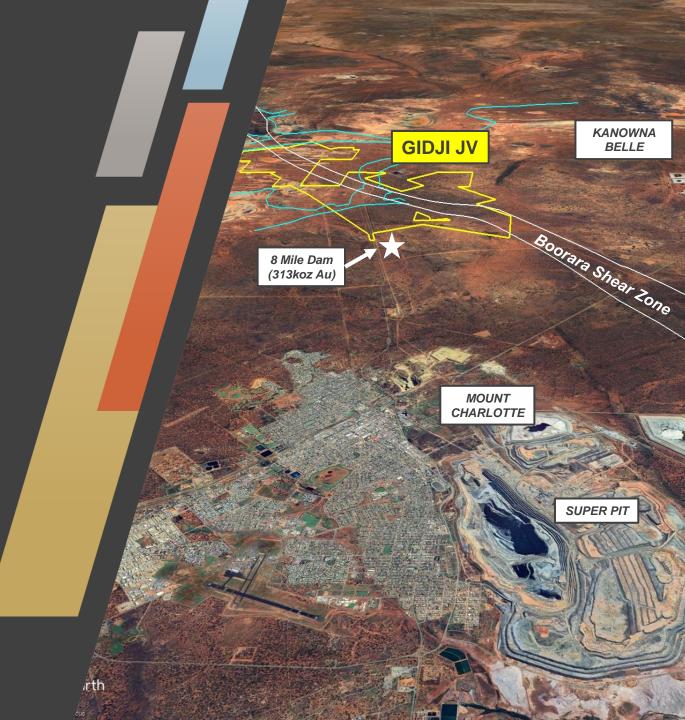






Gidji JV (80%)

Emerging gold camp in a prime location

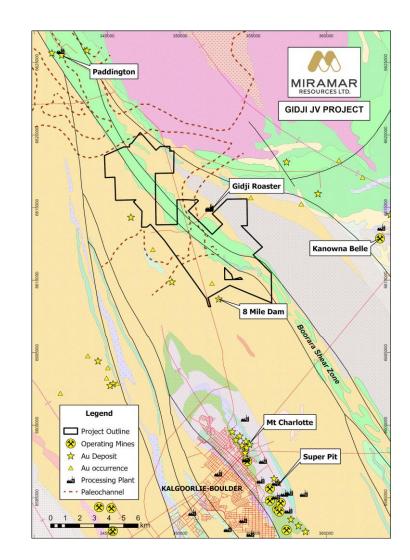


Gidji JV – "the cheapest house in the best street"

- 15km N of Kalgoorlie via major highway
- Surrounded by multiple major gold deposits and gold processing plants
- Immediately adjacent to Northern Star
 Resources Ltd's 313koz "8 Mile Dam" deposit

Key ingredients for a new gold camp

- ✓ Dilational jog in Boorara Shear Zone host to several large gold deposits
- ✓ Underexplored due to Gidji Paleochannel
- ✓ Large gold footprints across multiple targets
- ✓ Gold mineralisation in multiple rock types



An emerging gold camp

Significant gold results across multiple targets

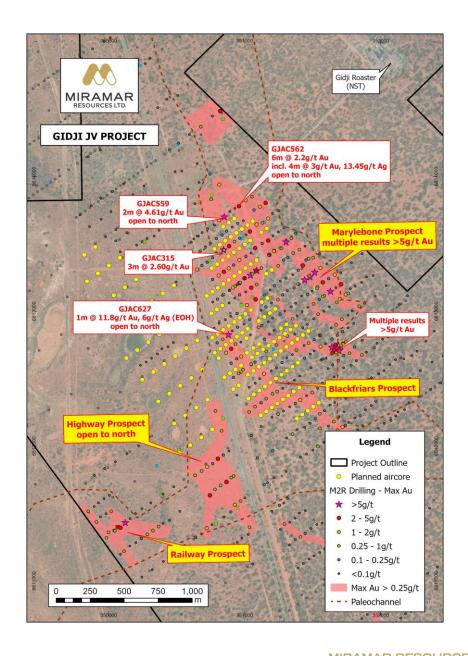
- Large supergene gold footprints outlined
- Multiple end of hole aircore results >1g/t Au

Potential for bedrock gold mineralisation

- Second order dilational faults off Boorara Shear
- Fractionated dolerite (Golden Mile equivalent?)
- Widespread alteration and pathfinder anomalism
- ✓ Potential extension to "8 Mile Dam" deposit

Further drilling planned

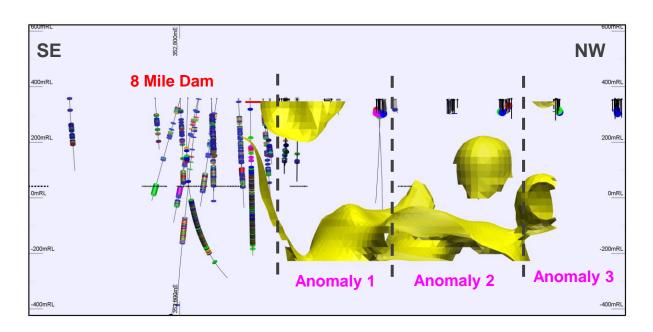
- Infill/extensional aircore across multiple targets
- Bedrock RC/diamond drilling

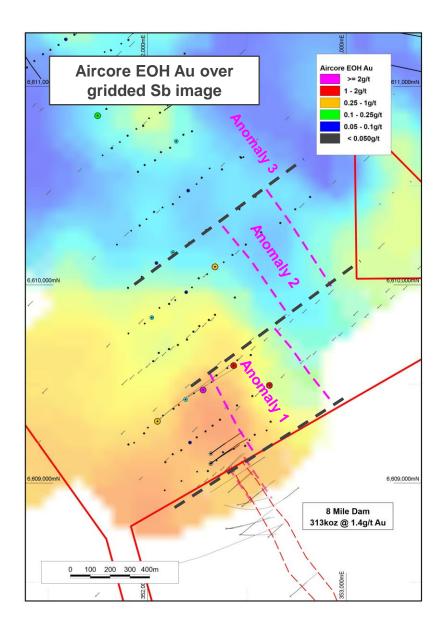


Gidji – 8 Mile Target

Potential extension to "8 Mile Dam" deposit

- Multiple aircore EOH results > 1g/t Au
- Anomalous pathfinders (Bi, Mo, Sb and W)
- IP chargeability anomaly offset by NE faulting







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





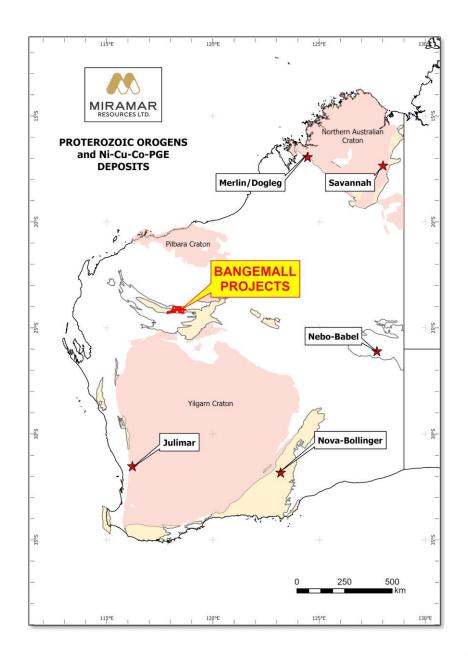


Bangemall Projects

Miramar's Bangemall Projects are located within WA's Proterozoic Capricorn Orogen

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

- Noril'sk/Talnakh world's largest and most valuable mineral deposits
- Voisey Bay, Raglan, Eagle
- Nova-Bollinger, Nebo/Babel/Succoth,
- Savannah, Merlin
- Julimar



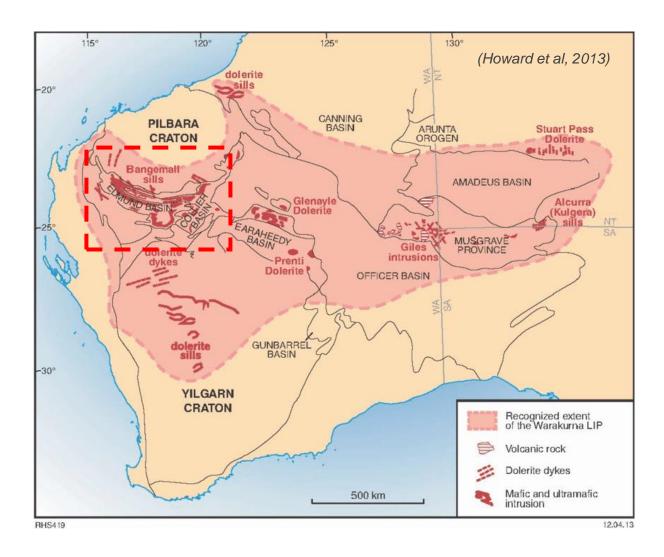


Warakurna Large Igneous Province (LIP)

- Widespread 1070Ma mafic intrusive event
- Bangemall Kulkatharra Dolerite sills
- Giles Complex (Nebo-Babel-Succoth)

Prospectivity recognised by GSWA, Geoscience Australia and CSIRO

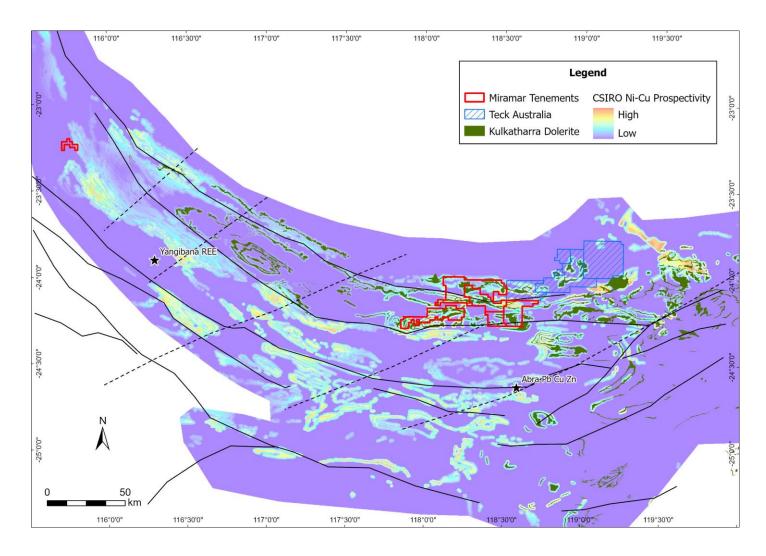
"The Bangemall Supergroup...is considered to be highly prospective for Noril'sk-type Ni-Cu-PGE deposits within the sill complexes" (GSWA, 2005)



First mover in a new nickel-copper province

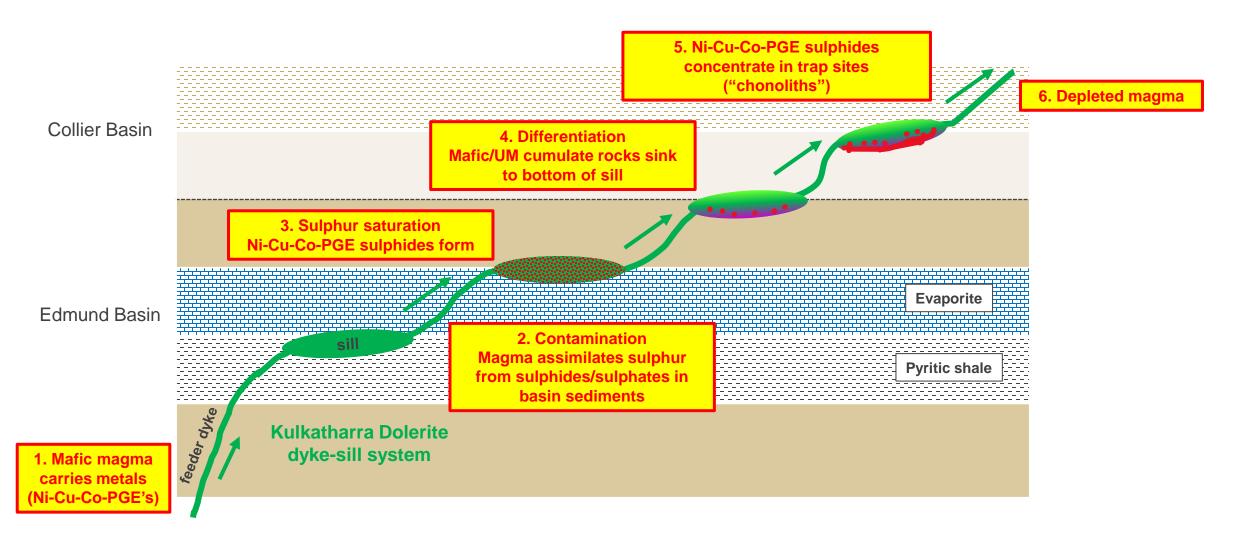
Key ingredients for Noril'skstyle mineralisation:

- Extensive volume of mafic magma with evidence of crustal contamination
- Deep crustal-scale faults and cross-cutting faults
- ✓ Sulphur-rich sediments
- Regional-scale geochem and EM anomalies
- Differentiated dolerite sills with mafic cumulate rocks
- ✓ Ni and Cu sulphides





Bangemall – "Noril'sk-style" deposit model



Mount Vernon and Trouble Bore Targets

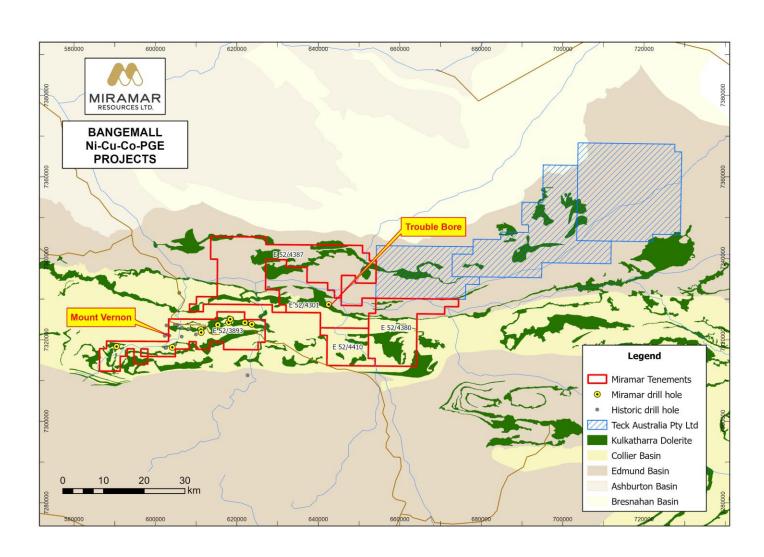
Mount Vernon EIS co-funded RC drilling (Aug 24)

- Differentiated dolerite sills with mafic cumulate rocks
- Disseminated pentlandite and chalcopyrite in multiple drill holes
- Sulphate minerals

Trouble Bore

- Strong EM anomaly
- Diamond drilling planned

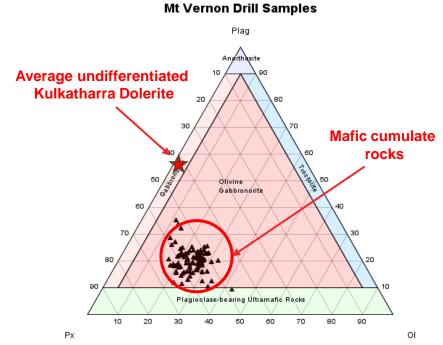
Detailed mag/EM survey planned for new tenements

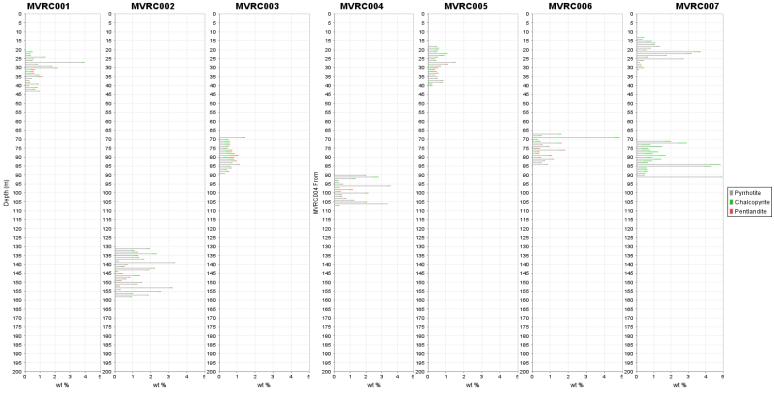


Mt Vernon - mafic cumulates and Ni-Cu sulphides

Mafic/UM cumulate rocks = evidence for differentiation

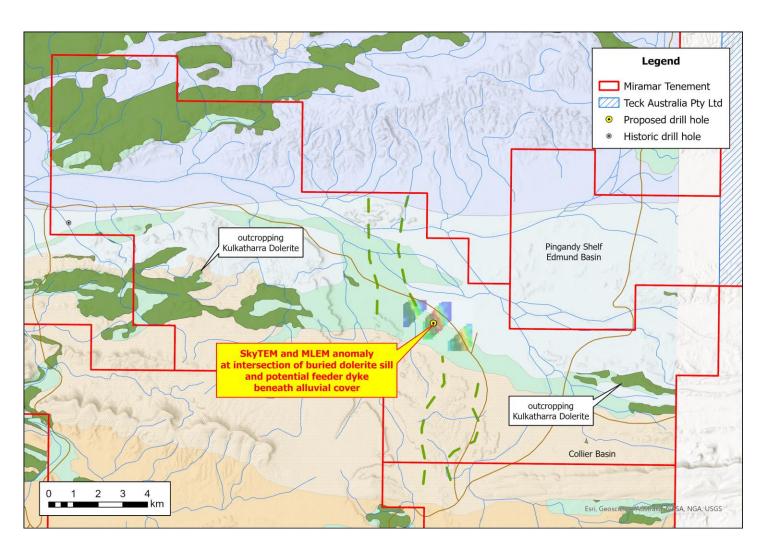
Micro-XRF analysis confirms presence of disseminated pyrrhotite, pentlandite and chalcopyrite in multiple drill holes





Trouble Bore Target

- Dolerite sills and feeder dykes intruding through sulphide and sulphate-rich sediments
- Historic SkyTEM anomaly confirmed by 2024 ground EM survey
- Historic drill hole targeted channel iron deposits and did not intersect dolerite or EM anomaly
- EIS co-funded diamond drilling planned Q2 2025





Whaleshark Copper-gold and magnetite iron project







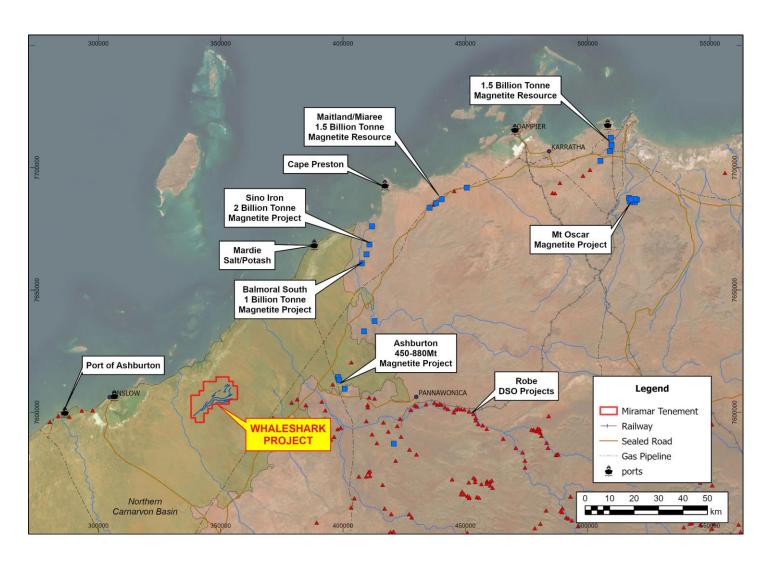




Fe

Whaleshark – copper-gold and magnetite project

- Northwestern extension of Capricorn Orogen
- Proterozoic metasediments, magnetite-BIF, and granitoid beneath Cretaceous sediments
- Basement depth ~100m
- Surrounded by significant infrastructure:
 - Major highway
 - Gas pipeline
 - Public/private port facilities
 - Magnetite and DSO mines/processing plants
 - Haul road







Whaleshark - copper and/or gold targets

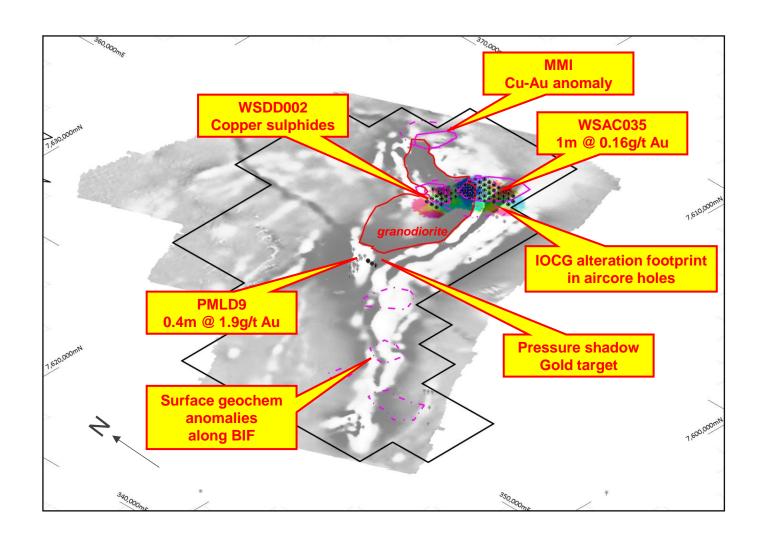
Copper-gold (IOCG)

- MMI Cu-Au-U-REE anomalism
- Anomalous Cu in aircore holes
- Alteration and REE signatures suggest **IOCG** potential
- Copper sulphides intersected in 2023 EIS diamond drilling

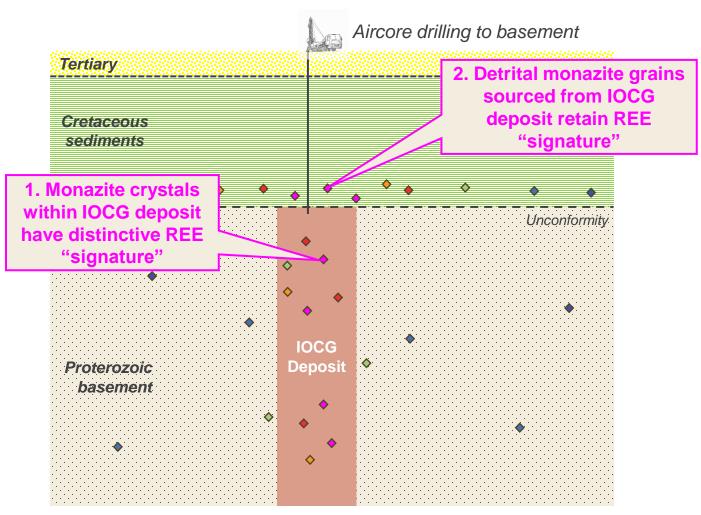
Orogenic/Intrusion-related Au

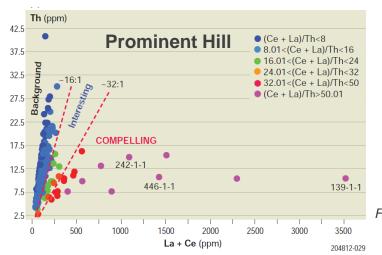
- Historic DDH intersected 0.4m@ 1.9g/t Au in BIF
- Aircore results up to 0.16g/t Au
- Multiple structural/geochemical targets over 20km of strike

Aircore drilling to be expanded

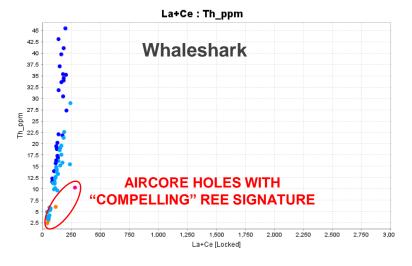


Aircore REE results indicate IOCG potential

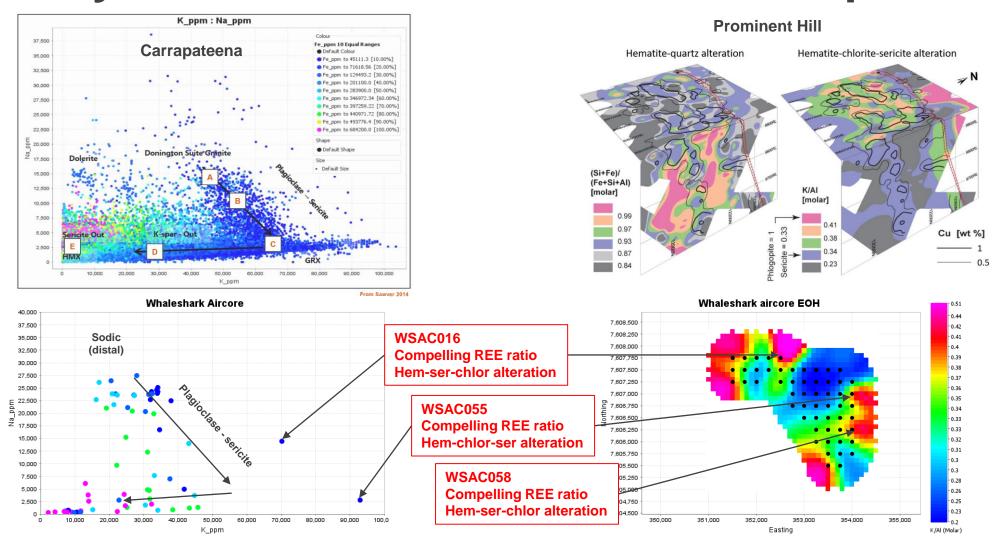




Forbes et al, 2016



IOCG-style alteration in aircore EOH samples





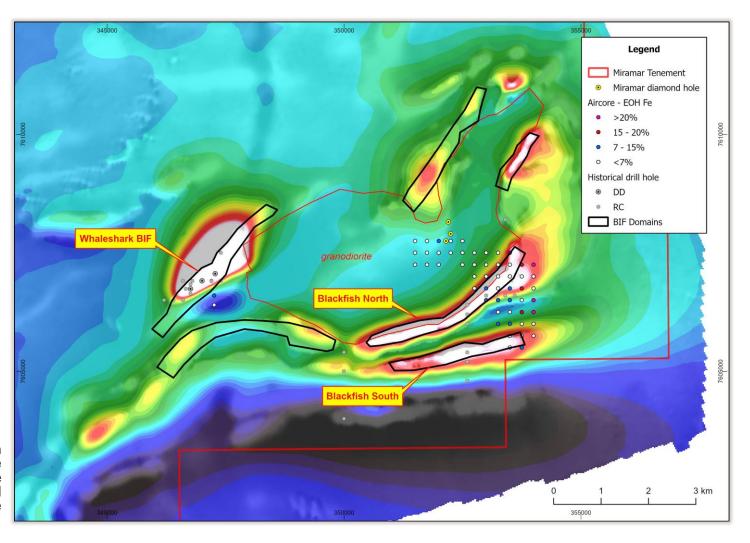


Magnetite Exploration Target*

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

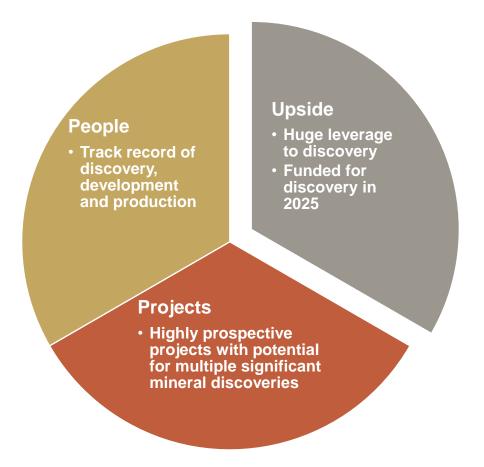
Cautionary Statement:

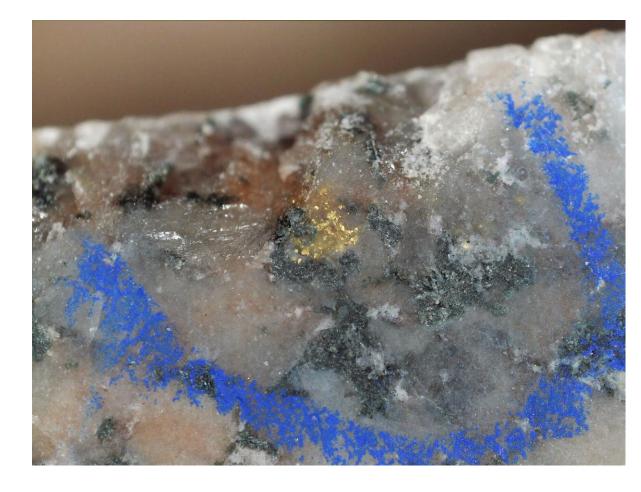
The Exploration Target has been prepared and reported in accordance with the 2012 edition of the JORC Code. The potential quantity and grade are conceptual in nature and there has been insufficient exploration to estimate a Mineral Resource. It is uncertain if further exploration will result in the estimation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



^{*}See ASX Release dated 19 June 2024

Summary - Why Invest in Miramar?









Miramar – (Proforma) 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
Current shares on issue	396.8M
T1 Placement (15%)	59.5M
T2 Placement (pending approval)	538.5M
Pro-forma Post Capital Raising	996.8M
Market Capitalisation (@ 0.4c)	\$4.0M
Cash and investments (pro-forma)	\$2.1M
Receivables (EIS)	\$0.2M
Enterprise Value (i.e. projects)	\$1.7M
JEMI Credits Available	\$0.45M





Proposed 2025 Work Programmes

Gidji JV

- Aircore drilling
 - Marylebone/Blackfriars/Highway
- Bedrock RC/diamond drilling
 - Blackfriars/8-Mile (+/- The Jog)

Bangemall

- Diamond drilling at Trouble Bore (EIS-funded)
- Airborne Mag/EM survey over new tenements
- Further mapping and rock chip sampling

Whaleshark

Extend aircore drilling over copper-gold targets

Chain Pool

Infill and extensional soil/rock chip sampling





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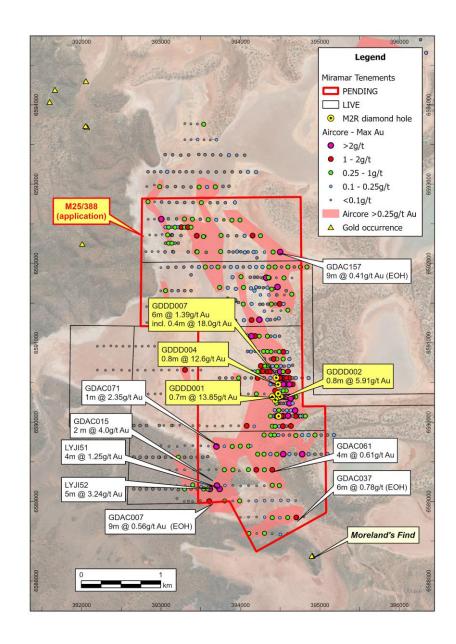




Glandore

- 40km east of Kalgoorlie surrounded by existing/proposed processing infrastructure
- Multiple high-grade gold results at contact between granite and layered mafic sill
- Large aircore gold footprint under lake
- Mining Lease application pegged Oct '24

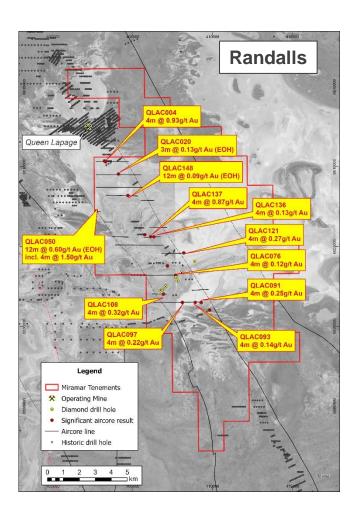


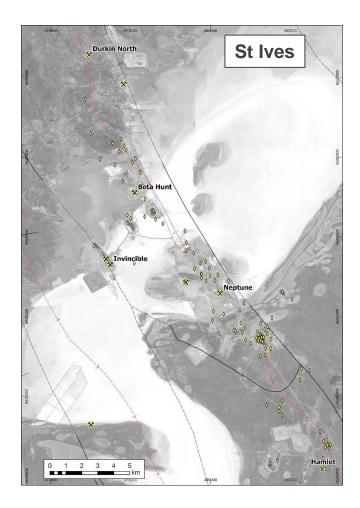


Randalls – strategic position on major structure

Lake Yindarlgooda Target

- 11km long supergene gold anomaly on salt lake
- Similar geology-structurescale to **Invincible** deposit
 - ✓ Mafic sediment contact
 - ✓ Major NW-trending fault
 - ✓ Crosscutting NE faults
- Additional 5km south of lake not yet tested
- Infill drilling and geophysics planned following tenement grant





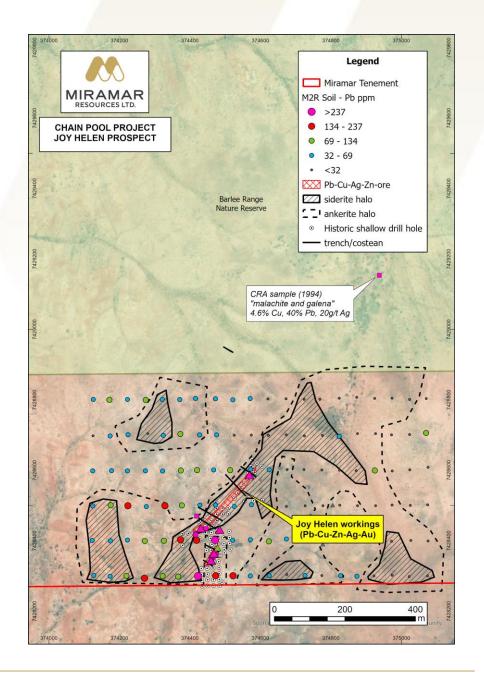
Chain Pool

SEDEX mineralisation

- "Joy Helen" historic Pb-Zn-Ag-Cu mine
- New high-grade rock chips over 400m strike
 - 5.49% Cu, 42.0% Pb and 73.5 g/t Ag
 - 5.43% Cu, 36.7% Pb and 36.0g/t Ag
 - 7.23% Cu, 26.7% Pb, 59.5g/t Ag, 0.8g/t Au
- Geochemistry/alteration consistent with known
 SEDEX deposits (e.g. Lady Loretta)
- Soil anomaly/alteration halo extends northeast of historic workings for up to 700m

Ni-Cu-Co-PGE potential

Mundine Well dolerite dykes (e.g. Money Intrusion)



Carnarvon Sands

- Coastal embayment with heavy mineral strandlines north of the mouth of the Gascoyne River
- The 79,000km² Gascoyne River catchment contains multiple hard-rock REE deposits (Yangibana, YIN)
- Along with traditional Heavy Mineral Sands, limited previous exploration confirmed the presence of detrital REE minerals including:
 - Xenotime Yttrium phosphate
 - Monazite La, Ce, Nd, Sm, Pr phosphates
- Proximity to proposed green energy projects

