

Investor Update

December 2023



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 value through discovery

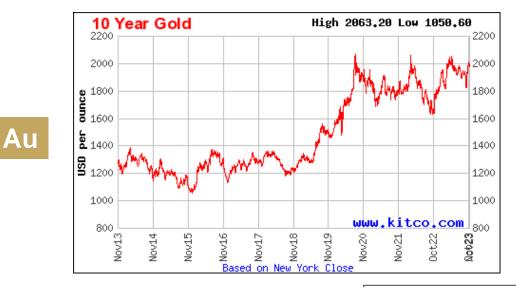
Systematically advancing three large discovery opportunities across WA

- Multiple large Ni-Cu-PGE targets within Bangemall project tenements
- Whaleshark unique landholding with multicommodity potential
- Potential for a new gold camp at Gidji JV
- Board track record of successful discovery, development and production
- Substantial share price leverage to exploration success

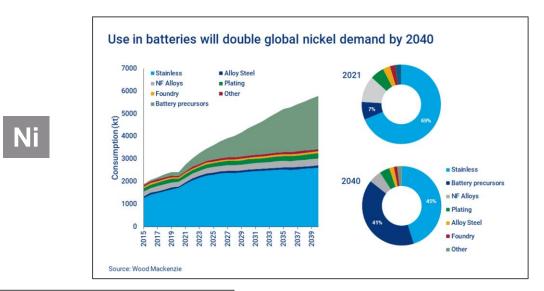


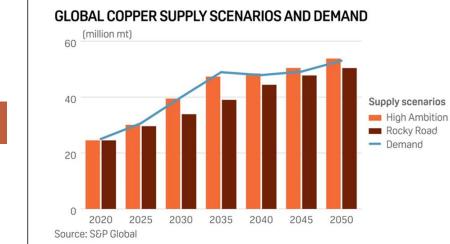


Exploring for in-demand commodities



Cu







Experienced Board with proven track record



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

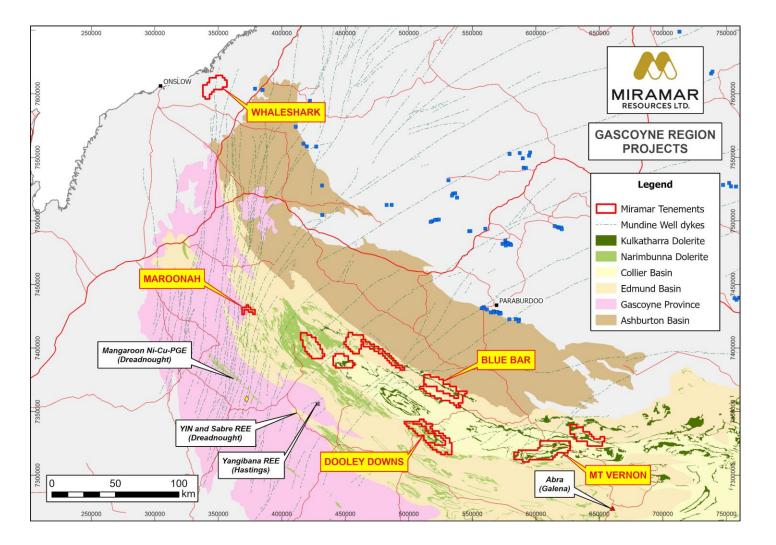
ASX Code	M2R
Shares on Issue	148.9M
Listed Options (@ 25c)	59.7M
Market Cap (@ 2.8c)	\$4.2M
Cash (Sept '23)	\$1.0M
Enterprise Value	\$3.2M
JMEI Credits	\$0.7M

Major shareholders	%
XGS Pty Ltd (Allan Kelly)	9.4
Faraday Investments	6.5
Valorem Capital	5.0
<u>Top 20</u>	<u>47.7</u>
Combined Board	10.2



Gascoyne Region Projects

- Proterozoic Orogens host major mineral deposits
- The Capricorn Orogen is relatively underexplored despite potential for multiple commodities and deposit types
 - Ni-Cu-PGE's
 - IOCG
 - Gold (e.g. Mt Olympus)
 - Lithium (e.g. Yinnetharra)
 - REE's (e.g. Yangibana, YIN)
 - Cu-Pb-Zn (e.g. Abra)





Bangemall Ni-Cu-PGE Projects

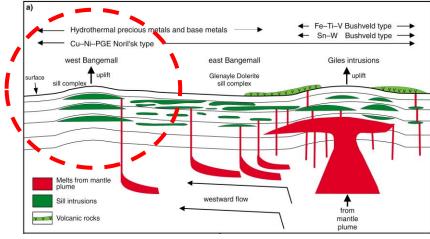




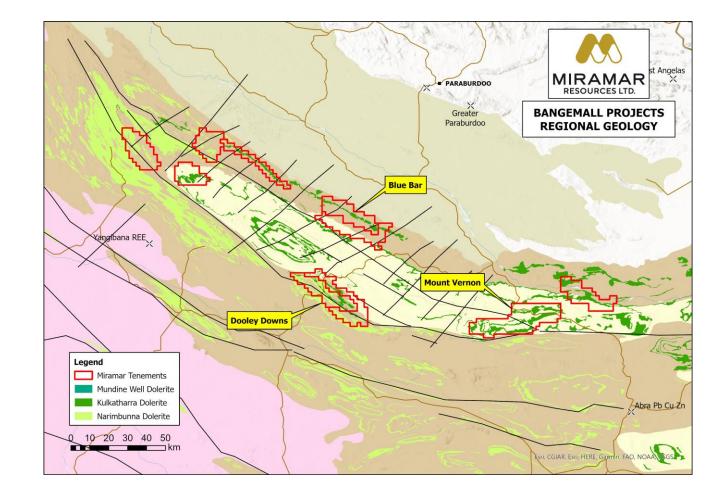


Bangemall Ni-Cu-PGE Projects

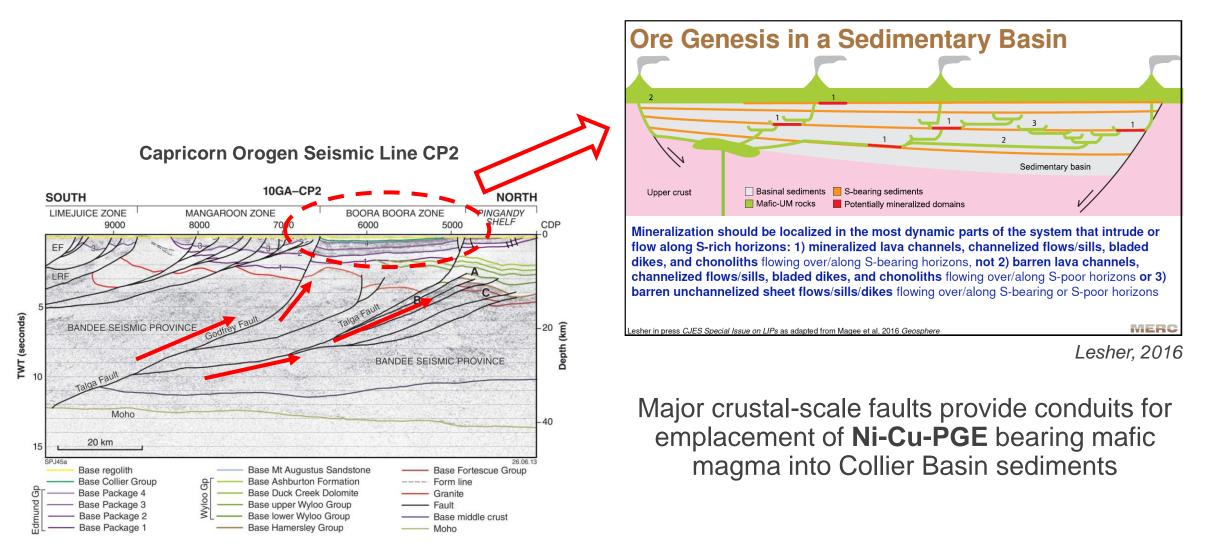
- Western end of Warakurna Large Igneous Province
- Major crustal-scale faults/conduits
- Kulkatharra Dolerite sills same age as the West Musgraves Giles Complex
- Regional geochem and EM anomalies
- No previous Ni-Cu-PGE exploration



Morris and Pirajno, 2005

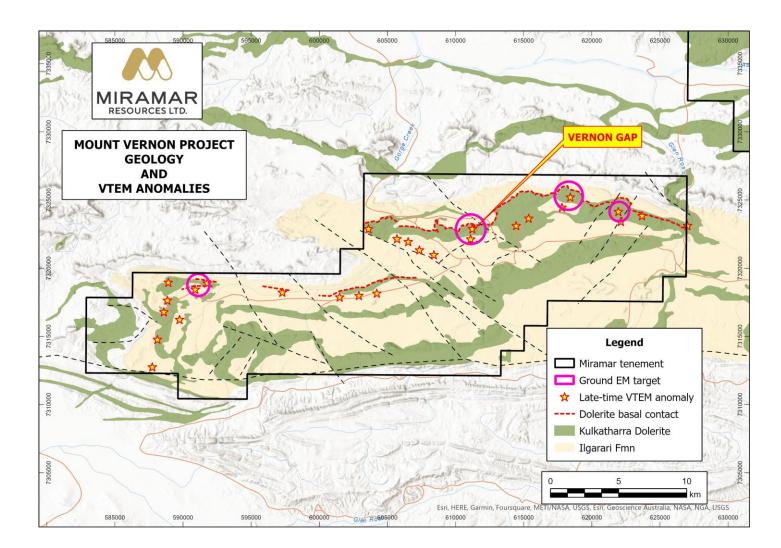


Bangemall Ni-Cu-PGE Model



Bangemall - Mount Vernon

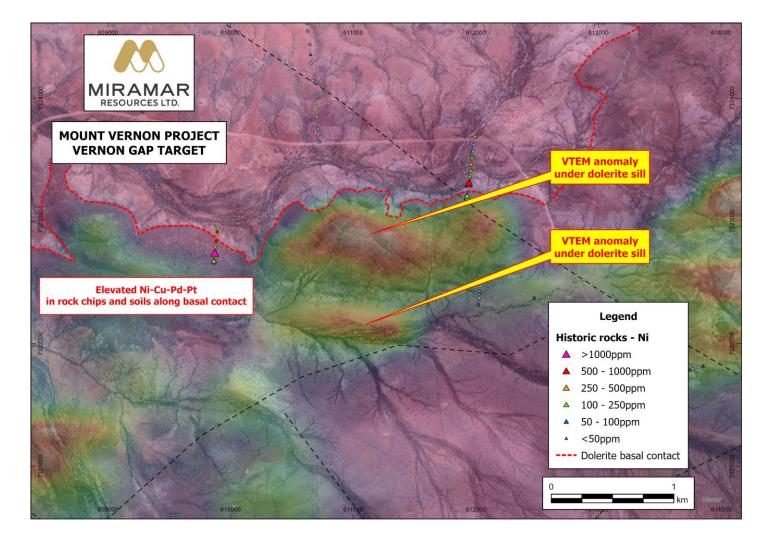
- Kulkatharra Dolerite sills intruding into pyritic siltstones (Suphur-source)
- Anomalous PGE's in GSWA regional stream sediments
- Elevated Ni-Cu-Pd-Pt in historic rock chip and soil samples
- Multiple late-time VTEM anomalies along basal contact of dolerite sill
- Ground EM planned



"Vernon Gap" - high priority drill target

- 600m long late-time VTEM anomaly beneath dolerite
- Elevated Ni-Cu-Pd-Pt in historic rock chips and soils
- Outcropping sulphides
- Ground EM/drilling planned







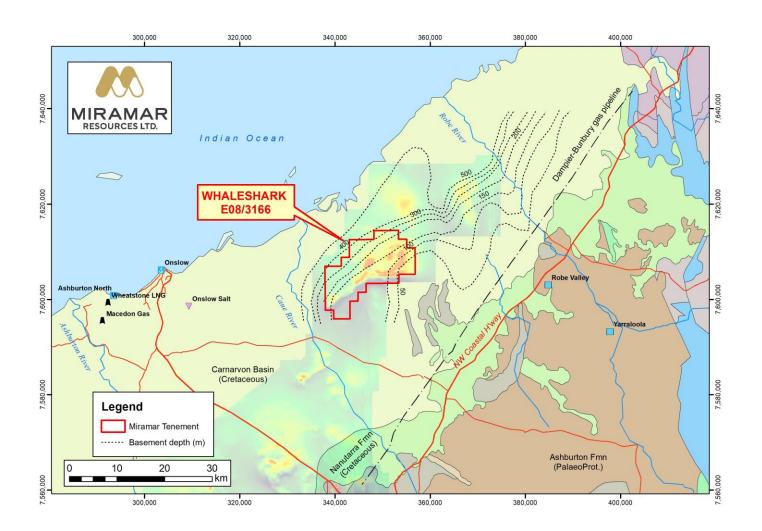
Whaleshark Project





Whaleshark Project

- Granodiorite and iron formation under Carnarvon Basin
- Multi-commodity potential
 - Iron oxide copper gold
 - BIF hosted gold
 - Intrusion related gold
 - Magnetite iron ore
- Significant infrastructure:
 - NW Coastal Highway
 - Dampier-Bunbury natural gas pipeline
 - Onslow port facilities



Systematic exploration since tenement grant

2020

Tenement application

2021

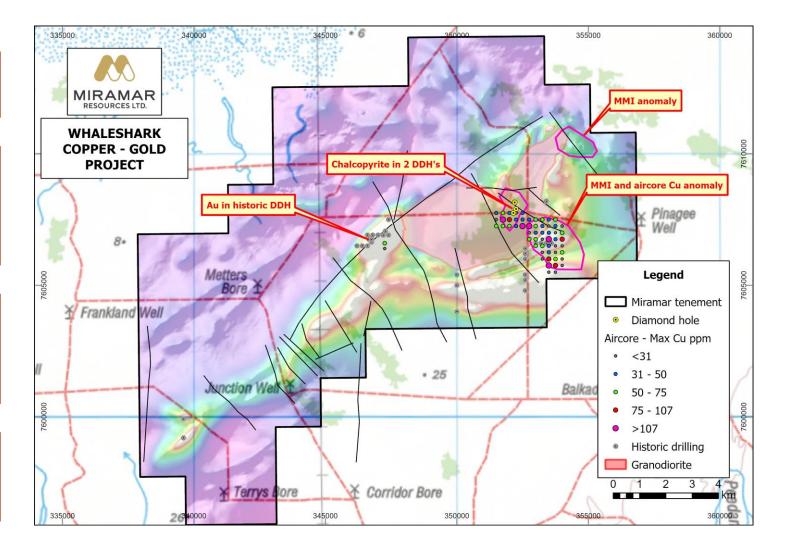
- Tenement granted
- First-pass MMI soil sampling
- Infill MMI soil sampling

2022

 "Interface" aircore drilling intersects Cu-Au-Ag-Co anomalism

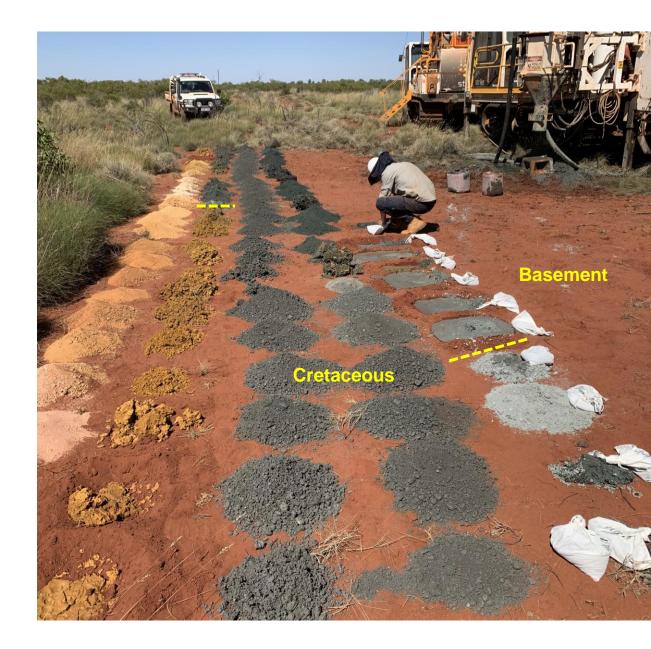
2023

 EIS diamond drilling intersects copper sulphides



2022 Aircore Drilling

- Aircore drilling beneath MMI anomalies successfully intersected basement beneath Cretaceous sediments
- Basement intersected at 20 –126m
- Strongly anomalous Cu-Au-Co-Mo-U-W at basement unconformity
 - 435ppm Cu, 889ppm Co and 7.7g/t Ag
 - 0.16g/t Au
- REE signature comparable to Prominent Hill and Carrapateena IOCG deposits

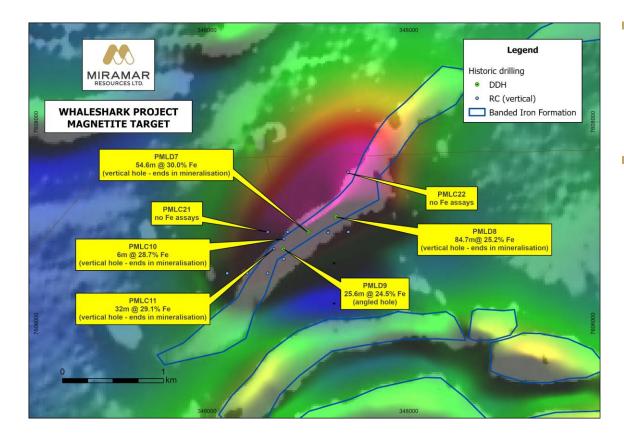


2023 Diamond Drilling

- 3 x EIS co-funded DDH's tested coincident gravity/MMI/aircore anomaly
- Drilling intersected biotite granodiorite with multiple biotite-rich mafic xenoliths
- Chalcopyrite intersected in 2 holes confirmed by XRF and assays
- Anomalous Cu, Au, Ag, Mo, W and REE's
 - **WSDD001** 1m @ 0.10g/t Au and 1m @ 31.4ppm Mo and 1022ppm W
 - WSDD002 0.4m @ 0.2% Cu, 1.1ppm Ag
 - **WSDD003** 1m @ 0.11g/t Au



Magnetite Iron Targets



- Historic drilling intersected magnetite-rich BIF
 - 84.7m @ 25.2% Fe
 - 54.6m @ 30.0% Fe
- Similarities to other magnetite iron deposits



Next Steps

Exploration to date provides evidence of:

- Prospective geology under shallow cover
- Effectiveness of aircore drilling
- Bedrock copper and gold mineralisation
- Thick intervals of magnetite iron >25% Fe

2024 work programme

- Passive seismic survey to map basement topography across project
- Heritage survey
- Interface aircore drilling to map basement geology +/- mineralisation
- Examine magnetite iron ore potential







Gidji JV (M2R 80%)

Ni

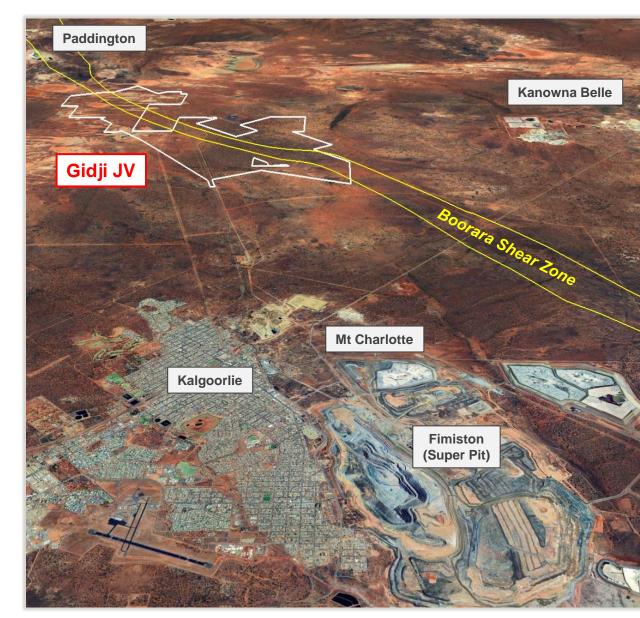
Au



Gidji JV

Underexplored gold project in prime location

- 15km N of Kalgoorlie surrounded by multiple major deposits and processing plants
- Dilational jog in major mineralised structure Boorara Shear Zone
- Previous exploration hampered by transported cover = minimal effective historic drilling
- Multiple large new aircore gold footprints discovered with same geology/structure/scale as >1 million ounce Paddington deposit

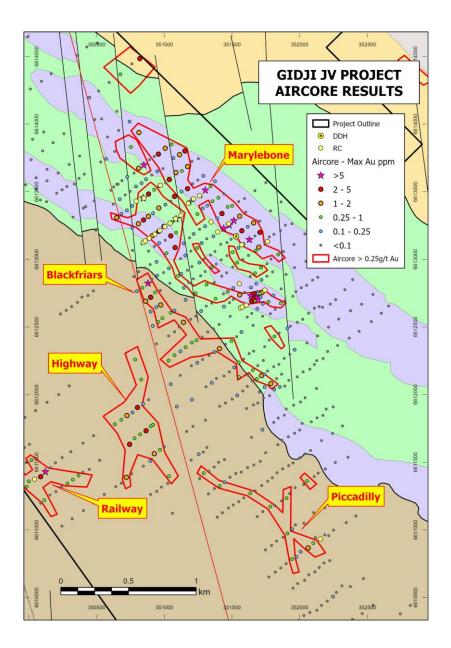




Gidji JV

Aircore drilling outlines multiple new gold occurrences

- Marylebone
 - 3m @ 7.12g/t Au
 - 2m @ 7.69g/t Au
 - 6m @ 2.21g/t Au
 - 1m @ 12.60g/t Au
 - 4m @ 3.00g/t Au
 - 1m @ 9.55g/t Au
- Blackfriars
 - 1m @ 11.8g/t Au and 6g/t Ag (EOH)
- Highway
 - 3m @ 3.78g/t Au
- Further aircore and bedrock drilling planned





2024 Work Plan

Bangemall (Mt Vernon)

- Ground EM
- **RC drilling** (EIS funding?)
- Grant of other tenements
 Whaleshark
- Passive seismic survey
- Heritage Survey
- Aircore drilling
- Gidji JV
- Work up RC/DD drill targets

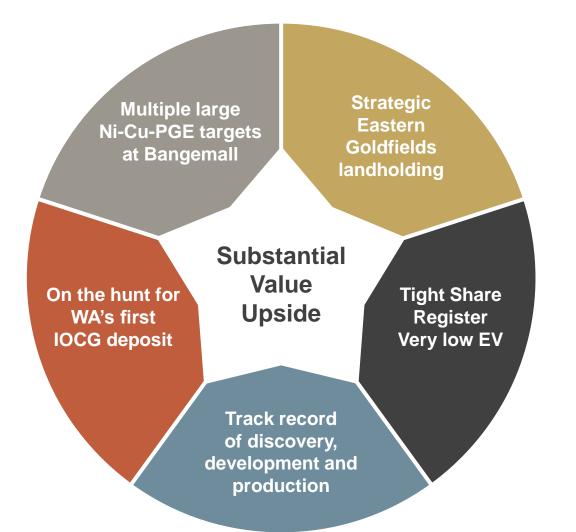
Other

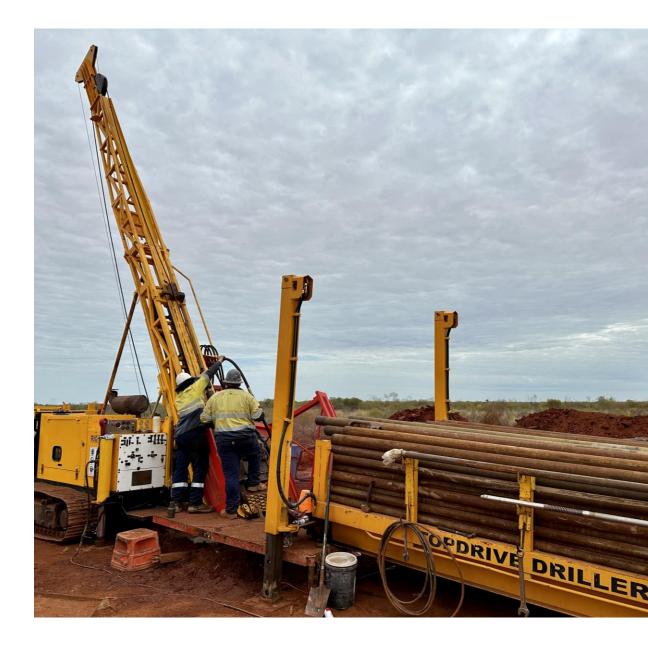
Project rationalization





Why Miramar Resources?







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