



**PANTHER**  
METALS LTD

121 Mining Investment  
Conference, Singapore  
19-20 September 2023

## FOCUSED ON BATTERY AND PRECIOUS METALS IN AUSTRALIA

Panther Metals owns the regionally significant Cogleia Nickel Cobalt Project, within truckable proximity to Glencore's Murrin Murrin plant west of Laverton, bolstered by multiple value adding gold prospects stretching over 40km of strike.



### NORTHERN TERRITORY PROJECTS

**Annaburroo & Marrakai:**  
Gold

### WESTERN AUSTRALIA PROJECTS

**Cogleia:** 70.6Mt Nickel-Cobalt JORC MRE  
**Red Flag, Marlin & Windarra East:** Nickel  
**40 Mile Camp:** Gold/Nickel  
**Burtville East, Ironstone Gold, Comet Well South & Mikado:** Gold

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The information in this presentation that relates to Exploration Results is based on information compiled by Mr Paddy Reidy who is a director of Geomin Services Pty Ltd. Mr Reidy is a member of the Australasian Institute of Mining and Metallurgy. Mr Reidy has sufficient experience which is relevant to the style of mineralisation and type of deposit under consideration and to the activity which he is undertaking to qualify as a Competent Person as defined in the JORC Code. Mr Reidy has 25 years of relevant experience in the Technical Assessment of Mineral Properties. Mr Reidy consents to the inclusion in the Presentation of the matters based on his information in the form and context in which it appears.

The information in this presentation that relates to the Mineral Resource estimation for the Coglia Nickel-Cobalt Project is based on information compiled by Mr Richard Maddocks. Mr Maddocks is a director of Auranmore Consulting Pty Ltd and is a Fellow of the Australasian Institute of Mining and Metallurgy. Mr Maddocks has sufficient experience that is relevant to the style of mineralisation and type of deposit under consideration and to the activity being undertaken to qualify as Competent Persons as defined in the 2012 Edition of the "Australasian Code for Reporting of Exploration Results, Mineral Resources and Ore Reserves". Mr Maddocks consent to the inclusion in the report of the matters based on this information in the form and context in which it appears.

The information in this report related to the Coglia Nickel-Cobalt JORC Exploration Target was compiled by Ruth Bektas, a consultant geologist of Asgard Metals Pty. Ltd. Ruth Bektas is a member of Recognised Professional Organisations as defined by JORC 2012: a Chartered Geologist (CGeol, Geological Society of London) and European Geologist (EurGeol, European Federation of Geologists) and has sufficient experience which is relevant to the style of mineralisation and type of deposit under consideration and to the activity upon which she is reporting as a Competent Person as defined in the 2012 Edition of "The Australasian Code for Reporting of Exploration Results, Mineral Resources and Ore Reserves." Ms. Bektas consents to the inclusion in this report of the matters based on the information compiled by her, in the form and context in which it appears.

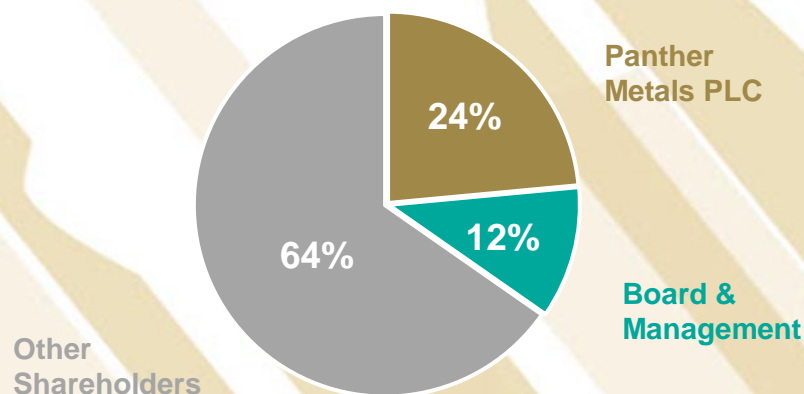
The Company confirms that it is not aware of any new information or data that materially affects the information included in the original market announcements and, in the case of estimates of Mineral Resources or Ore Reserves, that all material assumptions and technical parameters underpinning the estimates in the relevant market announcement continue to apply and have not materially changed.

# CORPORATE OVERVIEW

Panther Metals (ASX.PNT) is a battery and precious metals exploration company. Panther owns the regionally significant Cogleia Nickel-Cobalt and Red Flag Nickel Sulphide Projects within truckable proximity to Glencore’s Murrin Murrin plant west of Laverton and multiple gold prospects covering a mineralised zone stretching over 40km of strike.



## Share Register (31 August 2023)



## Capital Structure (31 August 2023)

ASX Code	PNT
Shares On Issue	85,025,001
Share Price	\$0.06
Market Capitalisation	\$5.10M
Cash	\$1.64M
Debt	Nil
Enterprise Value	\$3.46M

## Other Securities on Issue:

Unlisted Options \$0.30	3,500,000
Director Performance Rights (expiring Dec 2024 & Dec 2025)	5,000,000

Listed Options \$0.15 (Oct 2024)	33,440,000
Listed Options \$0.20 (Apr 2026) (ASX Codes: PNT0 & PNT0A)	33,440,000

# EXPERIENCED TEAM

**DR. KERIM SENER** BSc(Hons), MSc, PhD, FGSL, MIMM, MSEG  
Non-Executive Chairman

- 23 years experience in the mining and mineral exploration industry across four continents
- Discovery of c. 4Moz of gold and 42Moz silver in Eastern Europe
- Founder and Managing Director of Ariana Resources plc (AIM: AAU)
- Involved in several successful IPOs on the LSE, TSX and the ASX



**DANIEL TUFFIN** BEng, BSc, DipPM, FAusIMM(CP), MAICD  
Managing Director and CEO

- Co-Founder and Chairman of Auralia Mining Consulting
- Mining team for Barrick Kalgoorlie gold projects
- Successful private mining projects including Kalgoorlie's Rose Dam Resources
- Executive Technical Director Cavalier Resources (ASX:CVR) and Non-executive Director Mount Malcolm Mines NL (ASX:M2M)

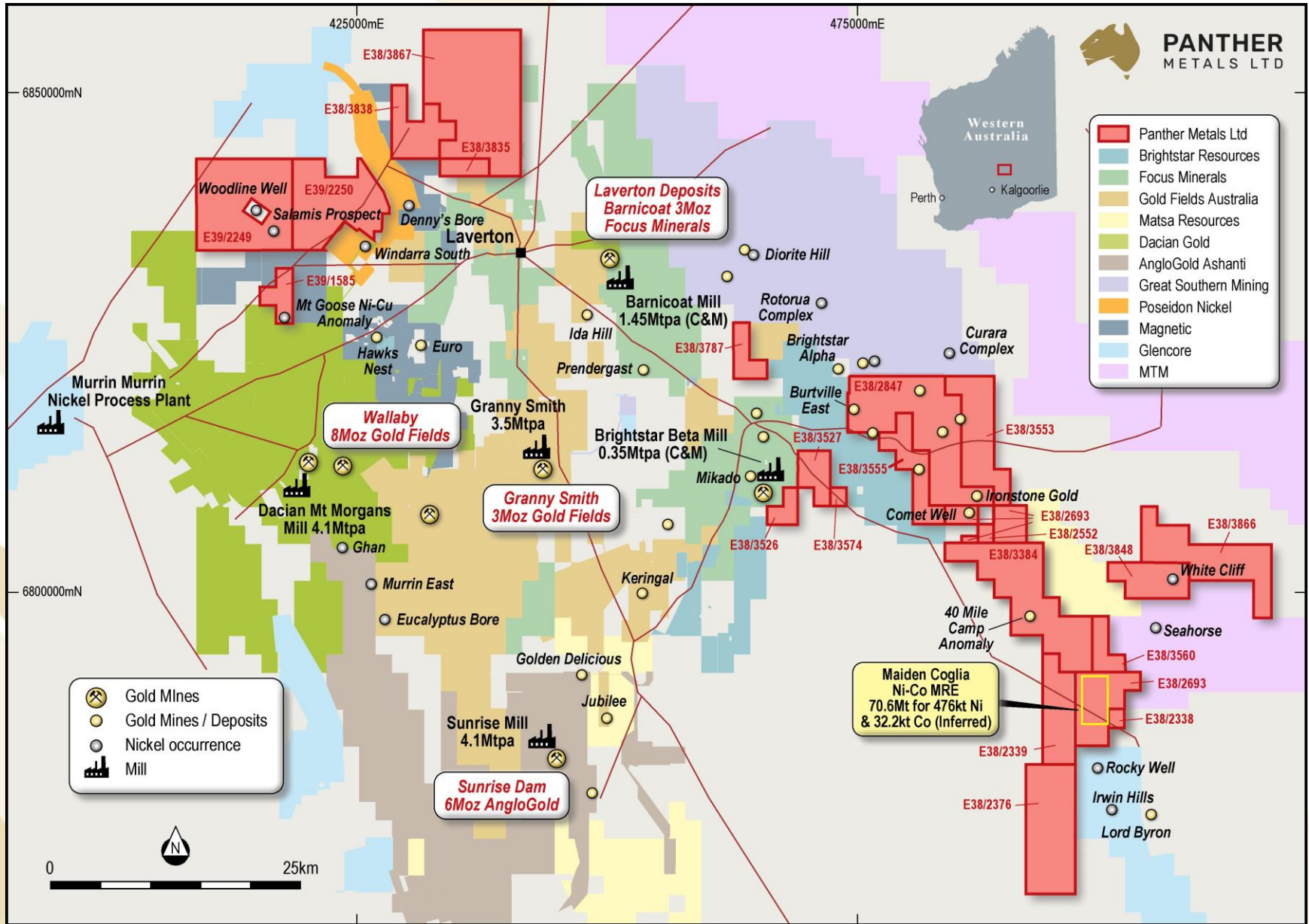


**RANKO MATIC** BBus, CA  
Executive Director

- Specialist expertise in corporate services, M&A and DD
- Involved in an advisory capacity to over 40 initial public offerings and other re-capitalisations and re-listings of ASX companies
- Executive Chairman of Cavalier Resources Limited (ASX:CVR)
- Non-executive Director of Lycaon Resources Ltd (ASX:LYN) and Locafy Limited (NASDAQ:LCFY)



# NEIGHBOUR TENEMENT HOLDINGS



Western Australian Project Locations

# INVESTMENT HIGHLIGHTS – WESTERN AUSTRALIA

Dominant multi-commodity land package in the Tier 1 mining and exploration region in the Laverton Gold Fields

<sup>1</sup> See ASX announcement “Maiden Cogleia Nickel-Cobalt Mineral Resource Estimate” (27 June 2022)

<sup>2</sup> See ASX announcement “Bonanza Gold Assay & Visible Gold in Core at Burtville East” (29 September 2022)

<sup>3</sup> A full list of these drill intercepts can be found in the Independent Geologist’s Report in the Prospectus (8 December 2021).



## Battery Metals

- ✓ Discovered **70.6Mt Ni-Co Inferred Resource** at the **Cogleia Project** for **476kt nickel** and **32.2kt cobalt**<sup>1</sup> over 7km of strike with the potential to significantly increase the resource drilling the:
  - *New 32-64Mt @ 0.40-0.65% Ni for 136Kt-400Kt Ni and 400-600ppm Co for 14Kt-37Kt Co Southern JORC Exploration Target (JET)*<sup>1</sup>
  - *New Central and Eastern drill targets*<sup>1</sup>
- ✓ HPAL testing at Cogleia confirms **>92% nickel recovery prior to any beneficiation being applied**. Cheap - free dig mining capability with only basic screening required to even further upgrade feed
- ✓ Cogleia is within trucking distance of Glencore’s Ni-Co Murrin Murrin plant & located just 13km north of Glencore’s new Irwin Hills Nickel Project
- ✓ Red Flag Nickel-Sulphide project located 25km west of Laverton next to the historic Poseidon nickel operations
- ✓ Red Flag straddles over 5km of the Woodline Well ultramafic trend, on which is located the Woodline Well project (held by ASX:POS) Historic intercepts include shallow peak nickeliferous oxide intercepts, the best being **31m @ 1.32% Ni, inc. 14m @ 2.03% Ni**

## Precious Metals

- ✓ Consolidated package of highly prospective and underexplored historic gold prospects over 40km of strike
- ✓ Discovery of bonanza grades including **1m at 478g/t from 27m, visible gold** and **multiple new gold lodes** open along strike and depth at Burtville East<sup>2</sup>
- ✓ Multiple gold mills running under capacity within a 50km radius
- ✓ Additional high-grade exploration targets from historical intercepts include<sup>3</sup>:
  - Ironstone Gold (9m at 46.5g/t Au)
  - Comet Well (Several >40oz nuggets discovered in one campaign)
- ✓ **Untested** 40 Mile Camp ~5.0km x 2.5km gold/nickel anomaly discovery to be drilled in 2023

The potential quantity and grade of an Exploration Target is conceptual in nature. There has been insufficient exploration to estimate a Mineral Resource and there is no certainty that further exploration work will result in the determination of Mineral Resources.



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**BATTERY METALS**



**2023 Drilling, Coggia Ni-Co Project**

# COGLIA NICKEL COBALT PROJECT

## Outstanding & Transformative Discovery

Successful drill campaign at Cogleia delivered a regionally significant Ni-Co Maiden Inferred MRE of **70.6Mt @ 0.7% for 476Kt Ni** (40% higher than the prior JORC Exploration Target):

0.5% Ni cut-off	Tonnes	Ni %	Co ppm	Ni tonnes	Co tonnes
Domain North	25,800,000	0.7	360	186,000	9,300
Domain South	44,800,000	0.6	510	290,000	22,900
<b>TOTAL</b>	<b>70,600,000</b>	<b>0.7</b>	<b>460</b>	<b>476,000</b>	<b>32,200</b>

(See ASX announcement on 27 June 2022).

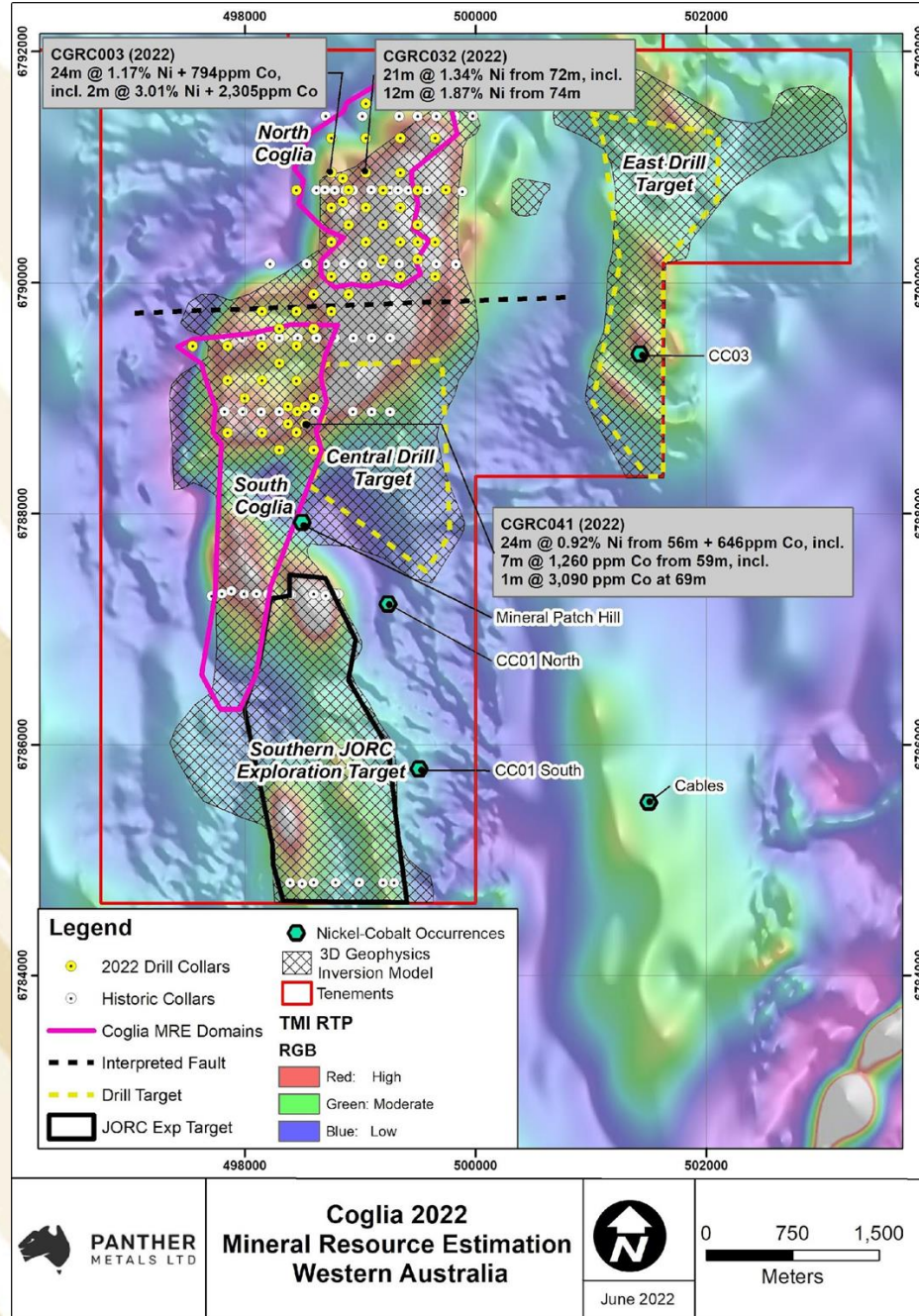
The 5.5km long Cogleia resource is now in WA's top 10 largest JORC-2012 compliant nickel deposits not owned by a Major<sup>2</sup> with significant further exploration upside.

High grade zones of consistent thickness have been intercepted inside the MRE zone including<sup>1</sup>:

- 21m at 1.34% Ni, inc. 12m at 1.87% Ni from 74m with a peak intercept of 1m at 3.77% Ni from 74m, and 8m at 833ppm Co from 78m with a peak of 1m at 1,200ppm Co from 81m.
- 21m at 1.23% Ni, inc. 2m at 3.01% Ni and 8m at 1,531ppm Co, inc. 2m at 2,305ppm Co

<sup>1</sup> See ASX announcements "Exceptional High-Grade Nickel-Cobalt Zones Intercepted" (28 February 2022), and "Assays Return Highest Nickel and Cobalt Grades to Date" (23 March 2022)

<sup>2</sup> Ni-Co Investment Opportunities, Geological Survey of WA



Plan View of Cogleia Ni-Co Mineralised Domains



# COGLIA NICKEL COBALT PROJECT

## Exploration Upside Abounds

New Southern JORC Exploration Target (JET) established:

**34-62Mt @ 0.40-0.65% Ni for 136Kt-400Kt Ni and 400-600ppm Co for 14Kt-37Kt Co<sup>1</sup>**

*The potential quantity and grade of an Exploration Target is conceptual in nature. There has been insufficient exploration to estimate a Mineral Resource and there is no certainty that further exploration work will result in the determination of Mineral Resources.*

The Southern JET is a potential extension of the open Coggia South Deposit over a 2.8km strike length in addition to the current 5.5km long Coggia MRE.

Two further drill targets, 'East' and 'Central' have also been identified covering a combined area of ~3.7km<sup>2</sup>.

Initial HPAL testing returned amazing **pre-beneficiation recoveries of 92.6% Ni and 73.9% Co** with high grades in ultra-fine fractions<sup>2</sup>

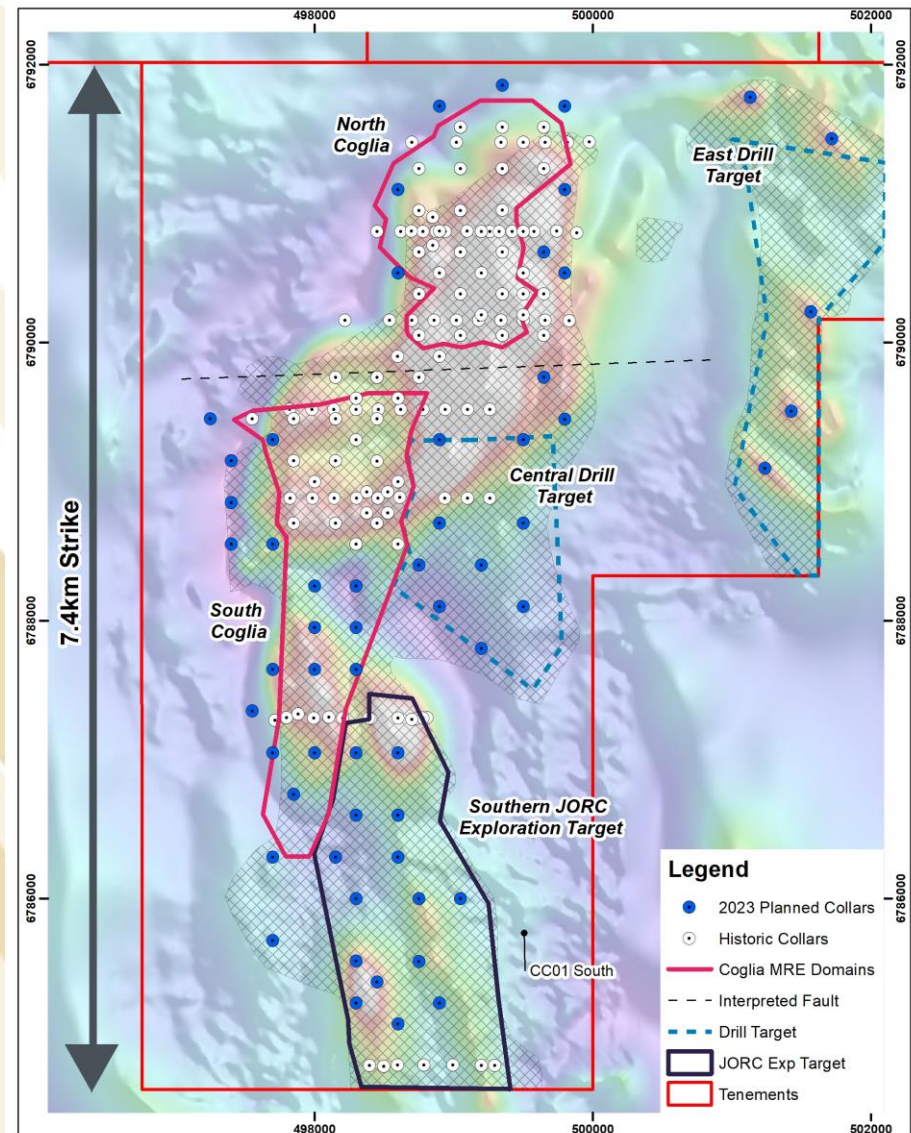
Recent expansional drilling of 5,300m of RC drilling was carried out to<sup>3</sup>:

1. Grow and increase confidence in the existing MRE by infill and extensional drilling on the South Coggia Domain and the Southern JET
2. Explore the potential of new mineralized zones within the Central and Eastern drill targets
3. Test if heap leach extraction is applicable
4. Progress towards early high-level mining studies

(\*Assays pending as of conference)

<sup>1,2</sup> See ASX announcements "Exceptional High-Grade Nickel-Cobalt Zones Intercepted" (28 February 2022), and "Assays Return Highest Nickel and Cobalt Grades to Date" (23 March 2022)

<sup>3</sup> See ASX announcement "Drill Programs Now Complete at Coggia" (1 August 2023)



**Coggia Drill Plan 2023**  
Western Australia



0 0.5 1  
Kilometers

Full Plan View of Coggia Ni-Co Mineralised Domains, Southern JET and drill targets

# RED FLAG NICKEL SULPHIDE PROSPECT

Targeting Known, Untested Ultramafic Sulphide Trends

Situated in prolific nickel-cobalt belt 25km west of Laverton.

Lies between the historic Windarra South mine 3.17Mt @ 1.35% Ni (42,646t Ni) and Murrin Ni-Co plant.

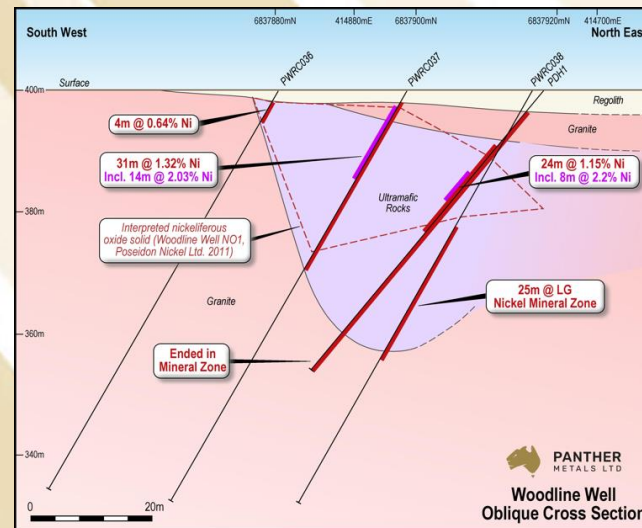
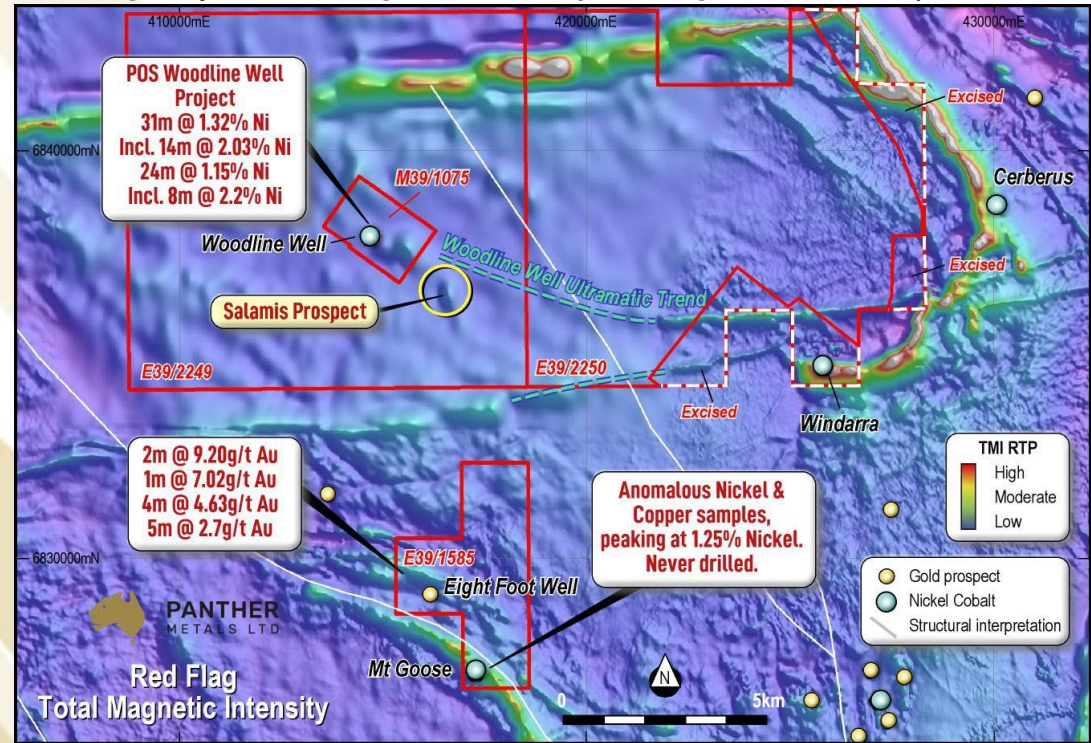
Northern lease covers the Windarra South mine to Woodline Well project trend.

Woodline Well contains 0.34Mt @ 1.25% Ni and held by Poseidon Nickel (ASX:POS).

POS identified an as yet untested target to the SE of Woodline Well, the Salamis Target.

Panther will undertake EM work prior to drilling to define new, and refine existing, targets once access agreements are finalized in 2023.

Red Flag Project total magnetic intensity and regional nickel deposits



Cross section of the Woodline Well nickel oxide deposit (Poseidon Nickel 2011)

## Marlin Nickel Project with historical drilling and magnetic targets over magnetic image

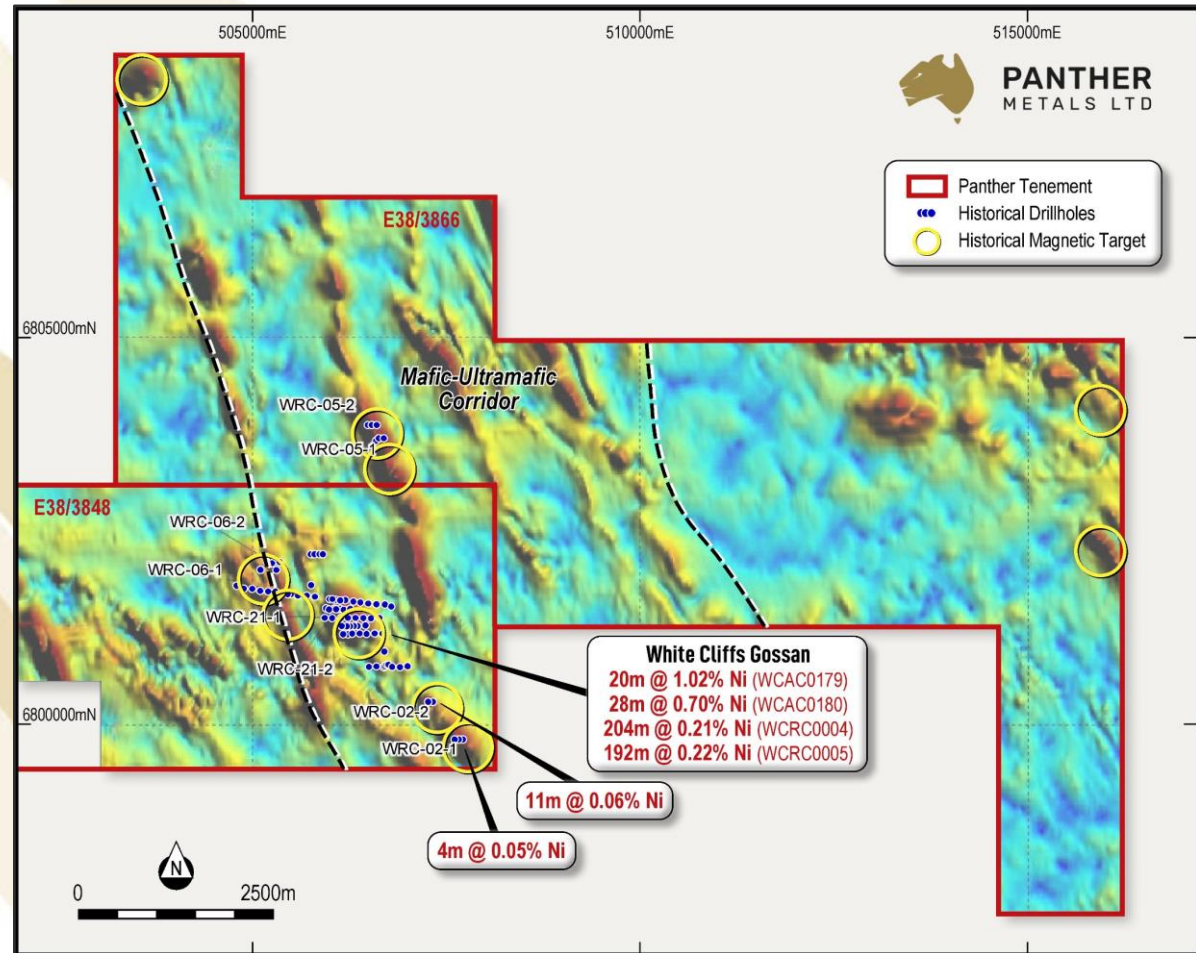
# MARLIN NICKEL SULPHIDE PROJECT

Recent opportunistic pegging secures nickel sulphide package just 10km northeast of Flagship Cogleia Nickel-Cobalt Project

- Drill ready upon grant and prospective for nickel sulphide mineralization, covering two exploration licenses over 84km<sup>2</sup>
- Previous drilling intersected both shallow high-grade nickel in saprolite and anomalous nickel in fresh ultramafic rocks. Best results include:
  - 20m at 1.02% Ni from 12m (WCAC0179)
  - 28m at 0.70% Ni from 8m (WCAC0180)
- Historical logging identified lithologies prospective for nickel sulphide mineralization, with olivine cumulates logged in RC chips
- Basal ultramafic contact remains untested by drilling with little testing of prospective mafic-ultramafic corridor within the project area

*"The potential for the Marlin Nickel Project to host nickel sulphide mineralization is well documented and diversifies the Company... We look forward to getting on the ground once tenure is granted" – CEO and MD Daniel Tuffin*

See ASX announcement "Panther Adds Prospective Nickel Sulphide Ground" (5 September 2023)



Chairman Dr Kerim Sener inspecting nickel gossans at White Cliffs



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**PRECIOUS METALS**



**Diamond Drilling, Ironstone Gold**

# BURTVILLE EAST GOLD PROJECT

## New Shallow High-Grade Discovery<sup>1</sup>

Burtville East is located within a 50km radius of four gold mills.

2022 drilling campaigns discovered **new gold lodes** open at depth and along strike.

Stunning intercepts included a new shallow gold zone of 15m at 53.94g/t from 27m (BVE006), including bonanza assays:

- o 1m at 79.9g/t gold from 27m,
- o 1m at 478g/t gold from 28m,
- o 1m at 125.5g/t gold from 34m, and
- o 1m at 43.8g/t gold from 35m

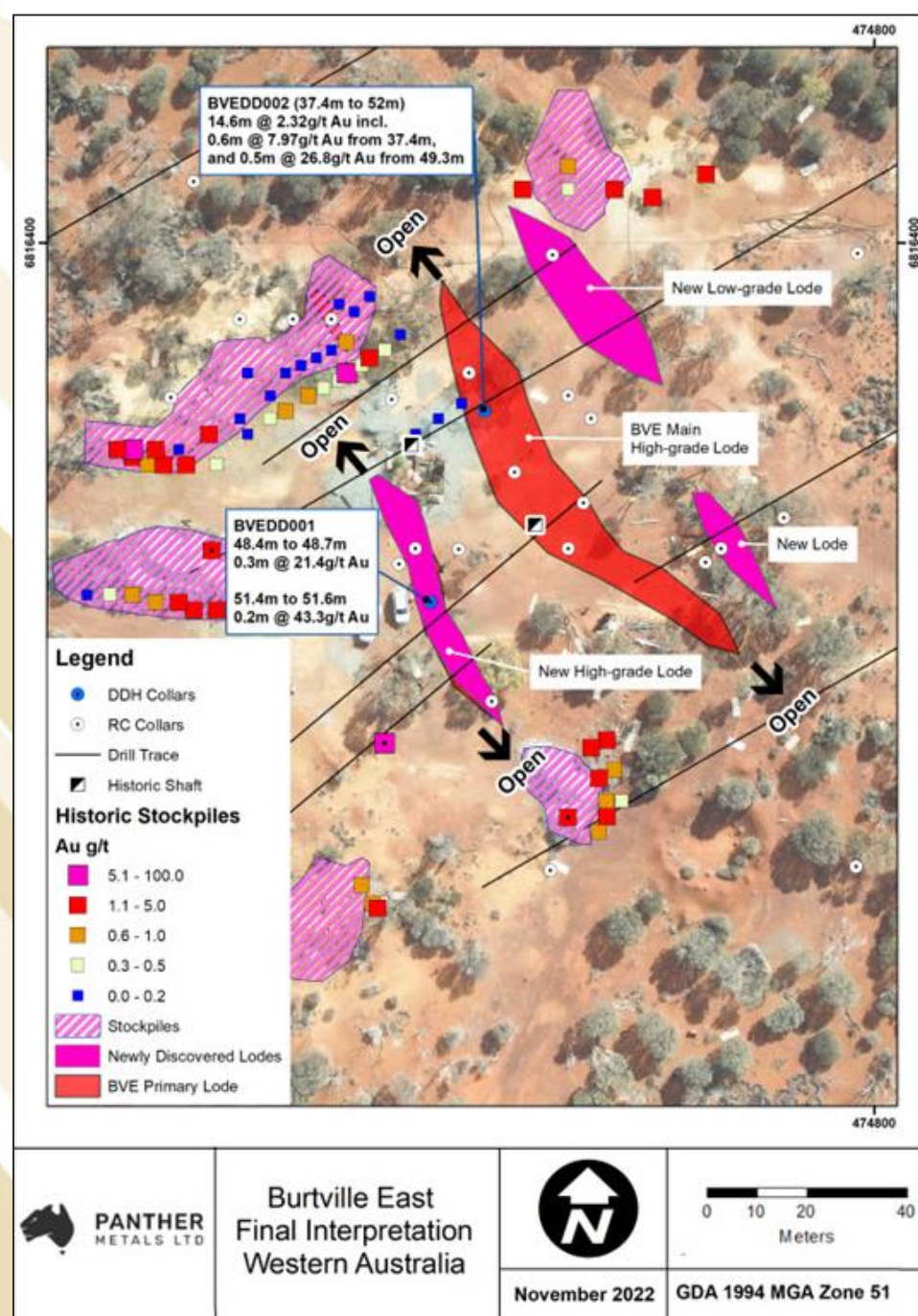
Other peak intercepts included:

- o BVE002: 1m at 73.3g/t gold from 93m
- o BVE009: 10m at 7.15g/t gold from 84m, including 1m at 62.80g/t gold from 91m

Visible gold was observed in diamond core and panned from hole several drill hole cuttings.

The expanded exploration area now runs over 1km of strike. A follow-up RC drilling program has been planned for 2023.

<sup>1</sup> ASX announcements "Bonanza Peak Gold Assay and Visible Gold at Burtville East" (17 July 2022) and "New Gold Lodes and Expanded Drill Target Area at Burtville East" (8 December 2022)



Burtville East Gold Project Plan View

<p><b>PANTHER METALS LTD</b></p>	<p>Burtville East Final Interpretation Western Australia</p>		<p>0 10 20 40 Meters</p>
			<p>November 2022</p>

# 40 MILE CAMP PROSPECT

## Potential New Gold/Nickel District Situated in the Laverton Gold Fields

A new ~5.0x2.5km anomalous gold area was discovered by Panther pre-listing via a combination of auger drilling and detailed airborne magnetic survey.

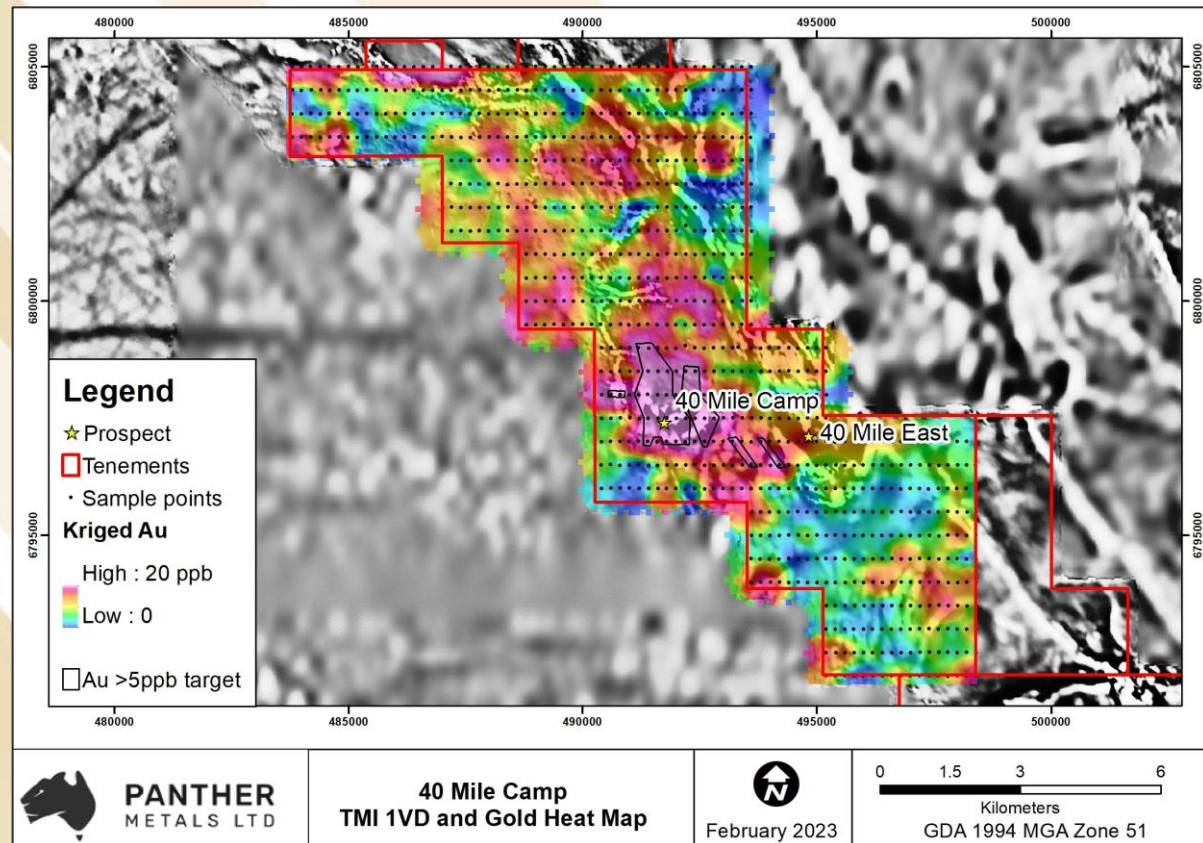
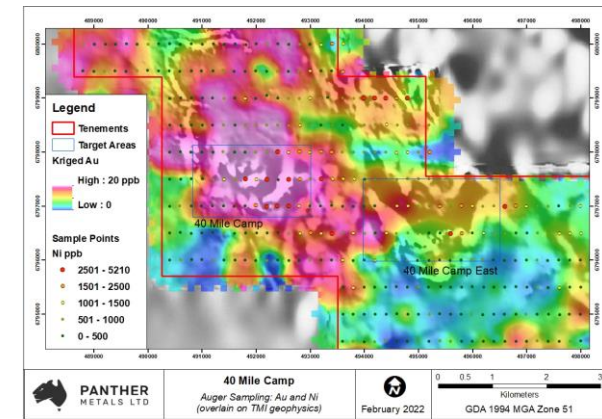
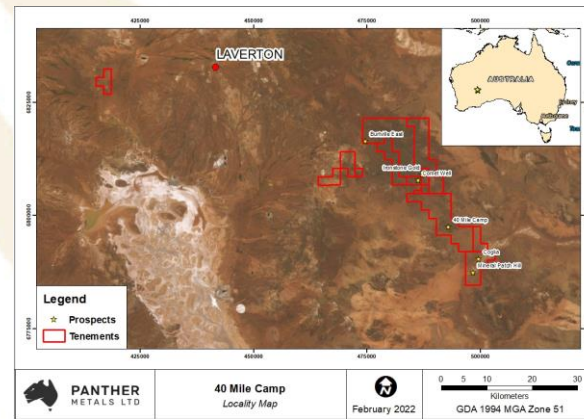
The magnetic survey completed over the area located several potential structural traps associated with tremolite schist and metabasalt units.

Interpretation of these key units provided more detailed understanding of the structural controls on mineralisation.

Significantly, low-level gold anomalism is located exactly where there is a pronounced change in orientation of the principle shear zone from NNW- to roughly N-trending. This magnitude of change in shear zone orientation is noted to be a key deposit scale control on gold mineralisation at several gold camps across the Eastern Goldfields.

Proposed drilling for 2023 will target these previously untested geochemical and geophysical anomalies at 40 Mile Camp and 40 Mile Camp East to confirm the presence of greenstone belt units and gold mineralisation.

Please refer to the independent geologist's report in the Prospectus dated 8 December 2021.



40 Mile Camp Regional Location (Top Left), Augur Drilling with Gold and Nickel Overlaid on TMI Map (Top Right), Geochemistry and Gravity Image Gold Heat Map (Bottom Centre)

# NORTHERN TERRITORY

100% owned by Panther Metals Ltd

**Annaburroo:** 149.8km<sup>2</sup>

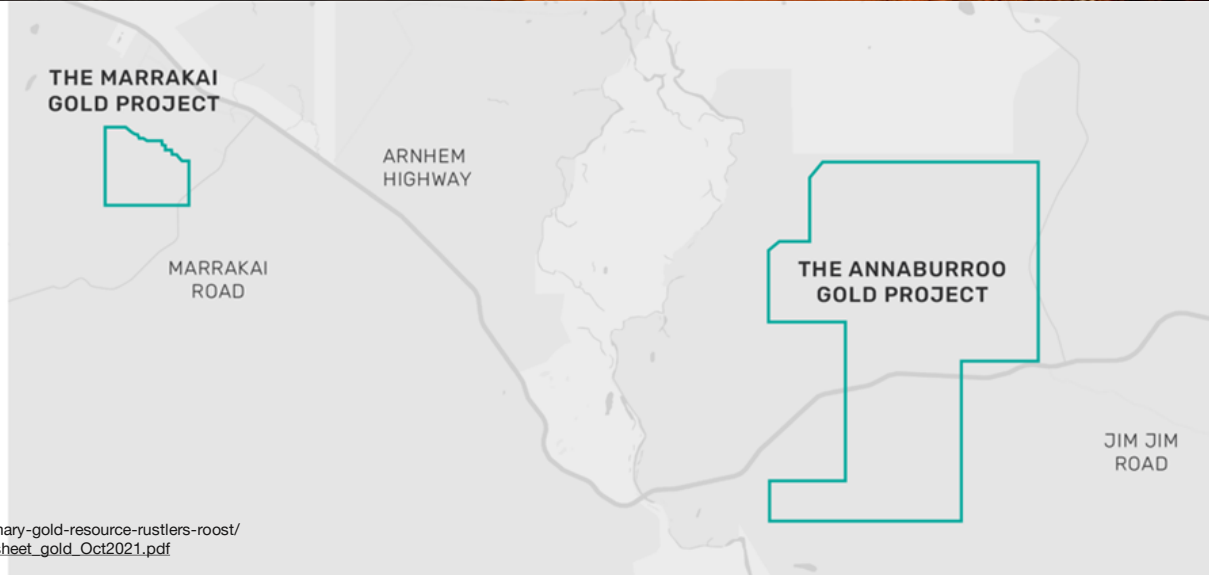
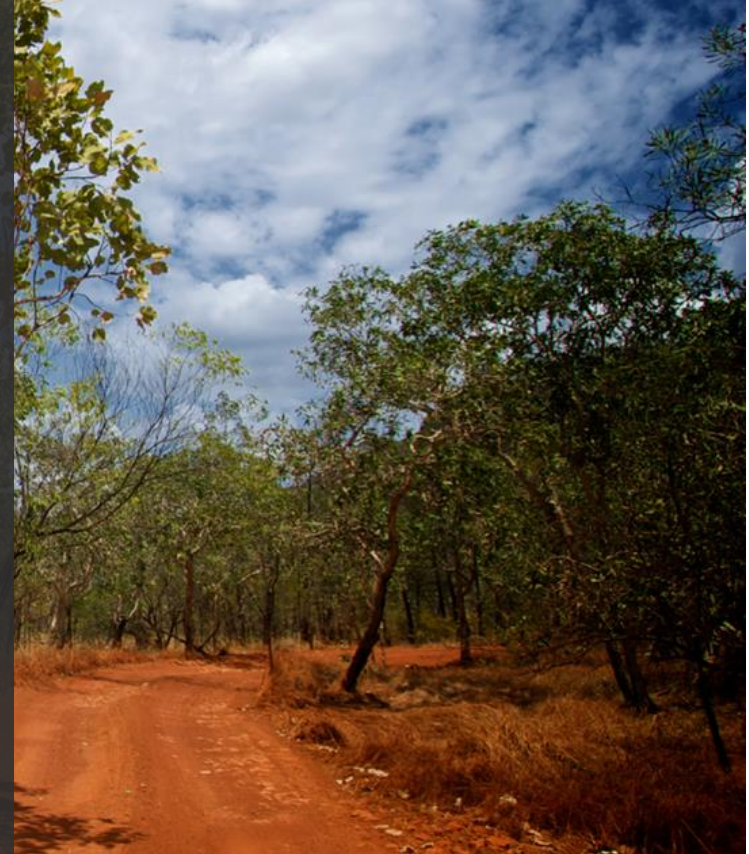
**Marrakai:** 10.1km<sup>2</sup>

Projects located within 100 km southeast of Darwin and are easily accessible via the Arnhem Highway.

Projects straddle the Tom's Gully and Rustlers Roost gold mines. Tom's Gully has a global resource of 54Mt @1.03 g/t Au (1.8Moz Au)<sup>1</sup> and produced over 75,000 oz Au<sup>1</sup>. Rustlers Roost Gold Mine has historical production figures of 356,651t at 9.23g/t Au to produce approximately 75,000oz of gold<sup>2</sup>.

Both projects are significantly underexplored.

Chairman completed his PhD in the Pine Creek Orogen.

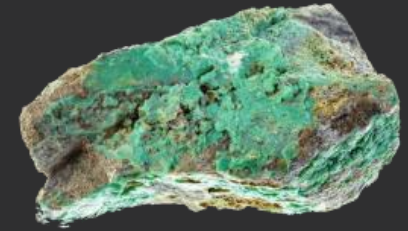


<sup>1</sup>"Primary Gold records 72% rise in gold resource at Rustlers Roost" <https://smallcaps.com.au/primary-gold-resource-rustlers-roost/>  
<sup>2</sup>[https://resourcingtheterritory.nt.gov.au/\\_data/assets/pdf\\_file/0011/756551/RTT\\_commodity-factsheet\\_gold\\_Oct2021.pdf](https://resourcingtheterritory.nt.gov.au/_data/assets/pdf_file/0011/756551/RTT_commodity-factsheet_gold_Oct2021.pdf)

# WHY INVEST IN NICKEL?

BHP Chief Commercial Officer, Vandita Pant “Demand for nickel in batteries is estimated to grow by over 500 per cent over the next decade, in large part to support the world’s rising demand for electric vehicles”<sup>1</sup>

Tesla CEO, Elon Musk “Nickel (supply) is our biggest concern for scaling lithium-ion cell production”<sup>2</sup>

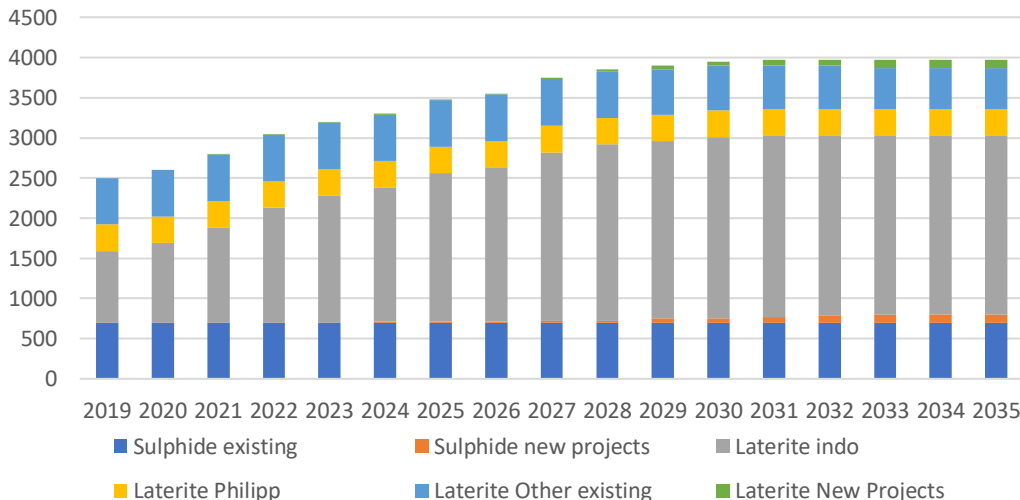


## Study by Joint Research Centre, European Commission<sup>3</sup> shows:

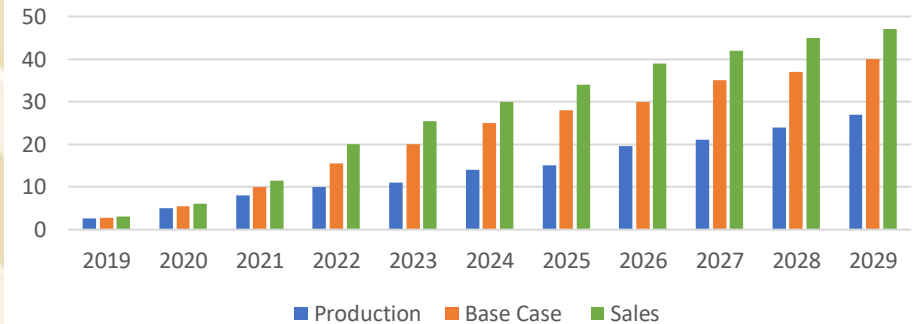
- Supply increasing 56% in 8 years
- Demand increasing (base case) **400%** in 8 years

The Australian Government has recently announced a one of a kind \$2b loan facility to ensure future **critical minerals** supply including **nickel**, rare earths, lithium and magnesium.

Outlook for expected mine production by type 2020-2035 (kt Ni)<sub>3</sub>



Global electrified (BEV, PHEV, HEV, 48V, FCEV) passenger car scenarios (example), (M units sold), 2019-2029<sup>3</sup>



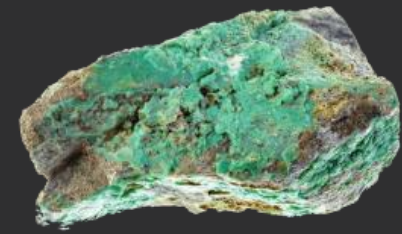
<sup>1</sup><https://www.bhp.com/news/media-centre/releases/2021/07/bhp-enters-into-nickel-supply-agreement-with-tesla-inc>

<sup>2</sup><https://www.bloomberg.com/news/articles/2021-02-25/musk-says-nickel-is-biggest-concern-for-electric-car-batteries>

<sup>3</sup><https://www.actu-environnement.com/media/pdf/dit-aujourd'hui/962-etude-jrc-metaux-batteries-voitures-electriques.pdf>

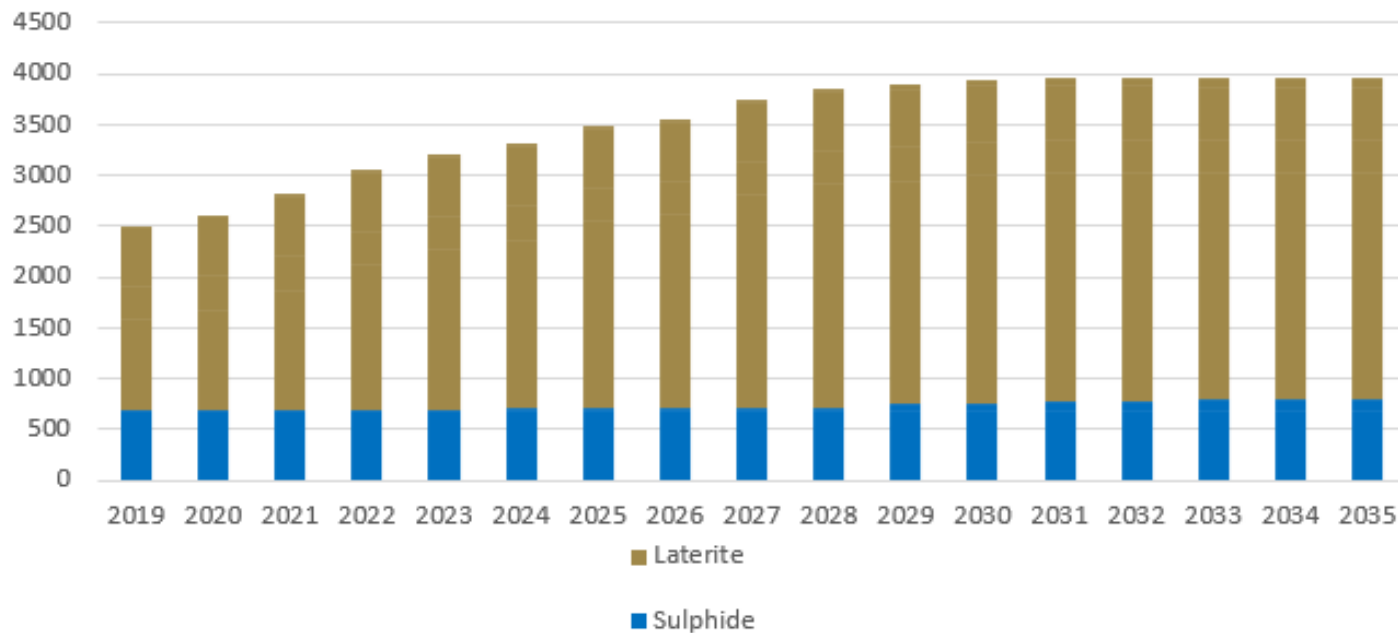


# NICKEL LATERITE DEPOSITS



- The world is increasingly reliant on larger nickel laterite deposits for electrification and decarbonisation
- Several comparable laterite projects have been flagged in the Australian Critical Minerals Prospectus, receiving financial support from Export Finance Australia and from the A\$2bn finance facility for critical minerals project
- HPAL technology for nickel laterite processing has seen significant technological advancements in recent years
- Alternative laterite processing technologies have been developed to potentially materially reduce capital expenditure, operating costs and to create a greener nickel product with fewer emissions

**Outlook for Expected Nickel Production by Ore Source (kt Ni)<sub>3</sub>**



# CONTACTS

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