



**NEXUS**MINERALS

# CORPORATE PRESENTATION

14 MARCH 2024

[nexus-minerals.com](https://nexus-minerals.com)



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- The information in the report to which this statement is attached that relates to the Pinnacles Mineral Resources based upon information compiled by Mr Mark Drabble, a Competent Person who is a member of The Australian Institute of Mining and Metallurgy and the Australian Institute of Geoscientists. Mr Drabble is a full-time employee of Snowden Optiro Pty Ltd, consultants to Nexus Minerals Limited. Mr Drabble 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 a Competent Person as defined in the 2012 Edition of the 'Australasian Code for Reporting of Exploration Results, Mineral Resources and Ore Reserves'. Mr Drabble consents to the inclusion in the report of matters based on his information in the form and context in which it appears.
- The information in the report to which this statement is attached that relates to Crusader-Templar Mineral Resources based upon information compiled by Mr Andrew Bewsher, a Competent Person who is a member of the Australian Institute of Geoscientists. Mr Bewsher is a full-time employee of BM Geological Services Pty Ltd, consultants to Nexus Minerals Limited. Mr Bewsher 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 a Competent Person as defined in the 2012 Edition of the 'Australasian Code for Reporting of Exploration Results, Mineral Resources and Ore Reserves'. Mr Bewsher consents to the inclusion in the report of matters based on his information in the form and context in which it appears.
- The Exploration Target estimate has been prepared by Mr Andy Tudor, who is a Member of the Australasian Institute of Mining and Metallurgy and the Australian Institute of Geoscientists. Mr Tudor is the Managing Director and full-time employee of Nexus Minerals Limited. Mr Tudor has sufficient experience which is relevant to the style of mineralisation and type of deposit under consideration and to the activity for which he is undertaking 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". Mr Tudor consents to the inclusion in the release of the matters based on his information in the form and context in which it appears.
- The information in this release that relates to Exploration Results, Mineral Resources or Ore Reserves is based on, and fairly represents, information and supporting documentation, prepared, compiled or reviewed by Mr Adam James, who is a Member of the Australasian Institute of Mining and Metallurgy and the Australian Institute of Geoscientists. Mr James is the Exploration Manager and full-time employee of Nexus Minerals Limited. Mr James has sufficient experience which is relevant to the style of mineralisation and type of deposit under consideration and to the activity for which he is undertaking 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". Mr James consents to the inclusion in the release of the matters based on his information in the form and context in which it appears.
- The information in this report that relates to Exploration Results, Mineral Resources or Ore Reserves is based on, and fairly represents, information and supporting documentation, prepared, compiled or reviewed by Mr Andy Tudor, who is a Member of the Australasian Institute of Mining and Metallurgy and the Australian Institute of Geoscientists. Mr Tudor is the Managing Director and full-time employee of Nexus Minerals Limited. Mr Tudor has sufficient experience which is relevant to the style of mineralisation and type of deposit under consideration and to the activity for which he is undertaking 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'. Mr Tudor consents to the inclusion in the report of the matters based on his information in the form and context in which it appears.
- The results are available to be viewed on the Company website [www.nexus-minerals.com](http://www.nexus-minerals.com). The Company confirms that the form and context in which the Competent Persons' findings are presented have not been materially modified from the original announcements.
- The exploration results are available to be viewed on the Company website [www.nexus-minerals.com](http://www.nexus-minerals.com). The Company confirms it is not aware of any new information that materially affects the information included in the original announcement. The Company confirms that the form and context in which the Competent Person's findings are present have not been materially modified from the original announcements of 13/10/2016, 7/2/2017, 6/9/2018, 20/9/2018, 16/10/18, 29/11/2018, 24/1/2019, 4/2/2019, 27/2/19, 15/3/2019, 2/4/2019, 9/4/2019, 16/4/2019, 18/4/2019, 29/5/2019, 8/7/2019, 28/8/2019, 8/10/2019, 21/10/2019, 27/2/2020, 13/3/2020, 21/4/2020, 29/6/2020, 15/7/2020, 16/7/2020, 24/7/2020, 13/8/2020, 28/8/2020, 1/8/2020, 5/10/2020, 19/10/2020, 2/11/2020, 17/11/2020 and 23/11/2020, 2/12/2020, 7/12/2020, 15/12/2020, 29/1/2021, 16/2/2021, 21/4/2021, 23/4/2021, 28/4/2021, 27/5/2021, 13/7/2021, 28/7/2021, 16/8/2021, 23/8/2021, 8/9/2021, 11/10/2021, 25/10/2021, 8/11/2021 9/11/2021, 15/11/2021, 21/12/2021, 24/12/2021, 18/1/2022, 25/1/2022, 3/03/2022, 14/3/2022, 31/3/2022, 11/04/2022, 19/4/2022, 21/04/2022, 3/5/2022, 9/5/2022, 16/5/2022, 24/05/2022, 25/5/2022, 28/6/2022, 7/7/2022, 26/7/2022, 8/8/2022, 16/8/2022, 24/8/2022, 9/9/2022, 20/9/2022, 24/10/2022, 17/11/2022, 23/11/2022, 24/01/2023 08/02/2023, 09/03/2023, 29/03/2023, 20/04/2023, 26/04/2023, 02/05/2023, 08/05/2023, 02/06/2023, 22/06/2023, 05/07/2023, 19/07/2023, 25/07/2023, 28/07/2023, 07/08/2023, 28/08/2023, 04/09/2023, 12/09/2023, 14/09/2023, 21/09/2023, 29/09/2023, 3/10/2023, 5/10/2023, 17/10/2023, 23/10/2023, 23/10/2023, 17/11/2023, 23/10/2023, 30/10/2023, 17/11/2023, 23/11/2023, 05/12/2023, 30/01/2024, 09/02/2024 and 13/03/2024.
- No Ore Reserves have currently been defined on the Pinnacles JV Gold Project, nor the Wallbrook Gold Project. There has been insufficient exploration and technical studies to estimate an Ore Reserve and it is uncertain if further exploration and/or technical studies will result in the estimation of an Ore Reserve. The potential for the development of a mining operation and sale of ore from the Pinnacles JV Gold Project or the Wallbrook Gold Project has yet to be established.



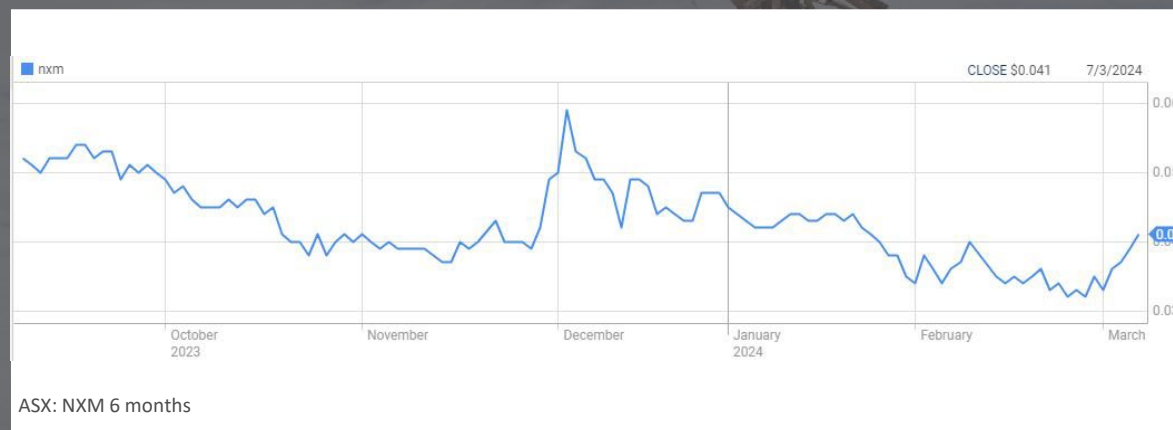
# ABOUT NEXUS MINERALS



## CORPORATE OVERVIEW

NEXUS MINERALS LIMITED	ASX: NXM
SHARES	389M
SHARE PRICE	A\$0.041
MARKET CAP	A\$15.9M
CASH (12/03/2024)*	A\$6.2M
ENTERPRISE VALUE	A\$9.7M
TOP 20	25%

## NXM OVERVIEW



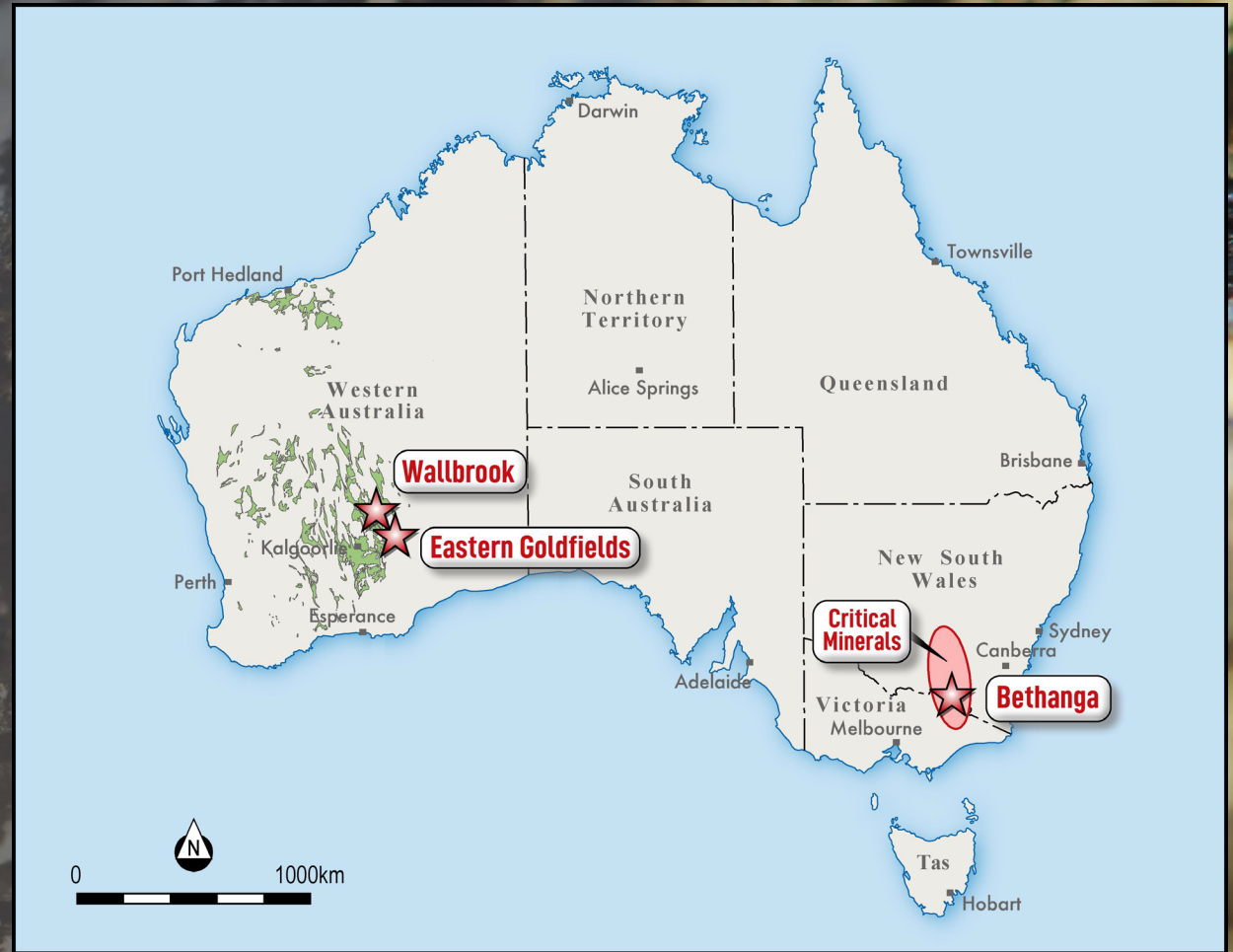
## BOARD & MANAGEMENT

<b>CHAIRMAN</b>	MR PAUL BOYATZIS	36 years equity markets and corporate governance
<b>MANAGING DIRECTOR</b>	MR ANDY TUDOR	38 years exploration geologist and management
<b>NON-EXECUTIVE DIRECTOR</b>	MR BRUCE MALUISH	34 years experience as a mining professional
<b>COMPANY SECRETARY</b>	MR PHIL MACLEOD	31 years commercial experience

\*R&D rebate of \$1.35Mill received and included in this figure

# COMPANY PROJECTS

- WESTERN AUSTRALIA**  
Wallbrook Project  
Large scale gold deposits
- VICTORIA**  
Bethanga Project  
Large Porphyry Copper-Gold
- NEW SOUTH WALES**  
Gold and Copper + Critical Minerals -  
Lithium, Caesium, Tantalum & Tin



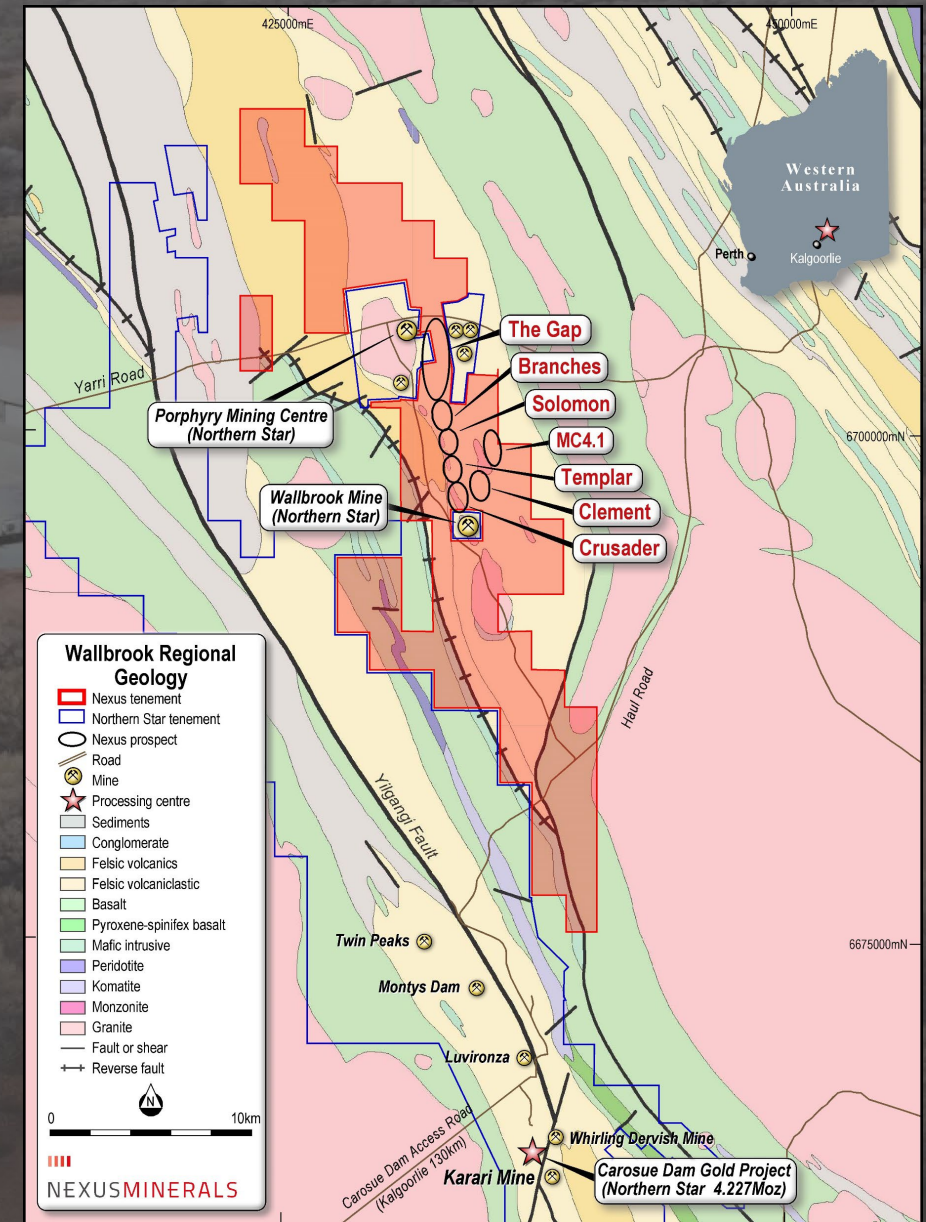
# COMPANY PROJECT

## WALLBROOK GOLD PROJECT

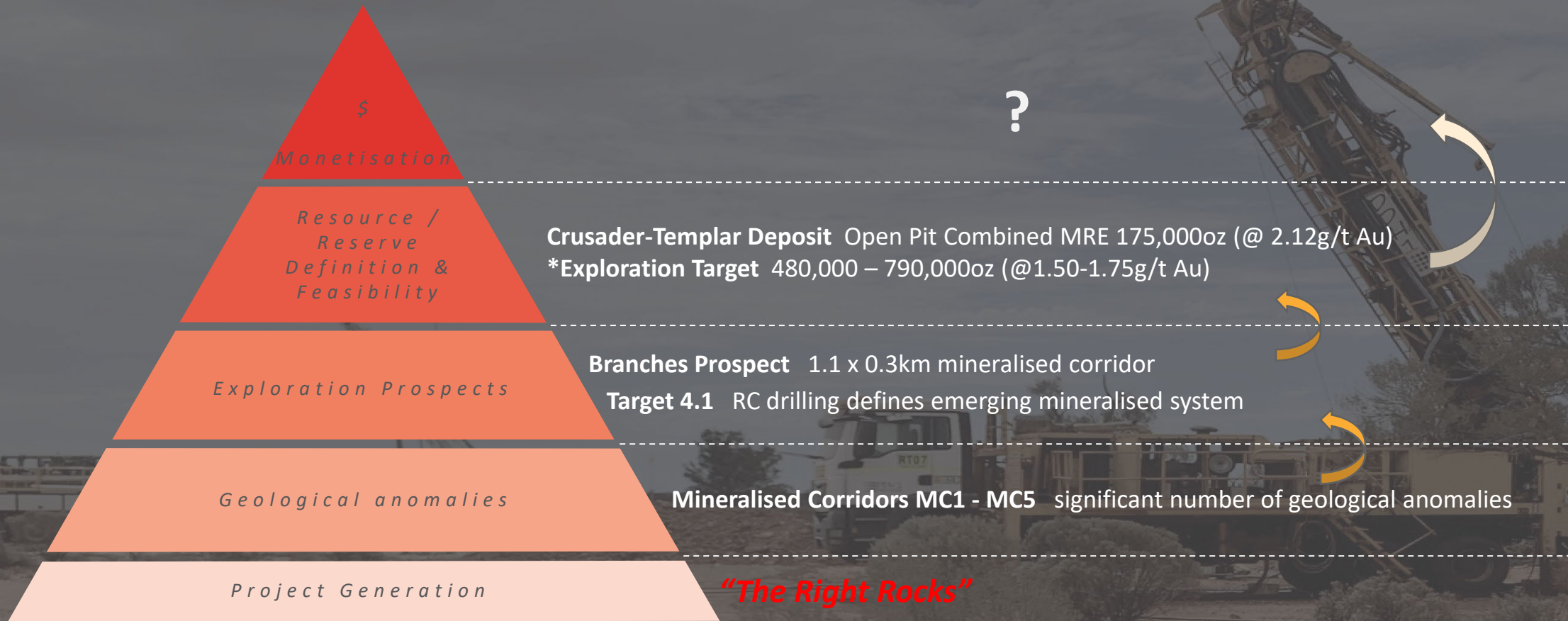
WESTERN AUSTRALIA / EASTERN GOLDFIELDS

- 140km northeast of Kalgoorlie in-between Northern Star's Carosue Dam Operations and Porphyry Mining Centre Operations
- Northern Star mining Porphyry Mining Centre sending ore to their Carosue Dam Operations 3.2Mtpa Mill – 35km to the south
- 204km<sup>2</sup> contiguous tenement package – Some 50km strike of prospective geology
- Main prospective corridors on granted ML's – including Crusader-Templar Deposit and Branches Prospect
- Geology and structural setting highly prospective for hosting gold mineralisation
- Largely unexplored landholding

Multi Million Ounce Gold District – “The Right Rocks”



# SYSTEMATIC AND PROVEN EXPLORATION APPROACH IN AN EMERGING GOLD CAMP



\* Note: The potential quality and grade of the Exploration Target is conceptual in nature and as such there has been insufficient exploration drilling conducted to estimate a mineral resource. At this stage it is uncertain if further exploration drilling will result in the estimation of a mineral resource. The Exploration Target has been prepared in accordance with the JORC Code (2012)



## EMERGING GOLD CAMP

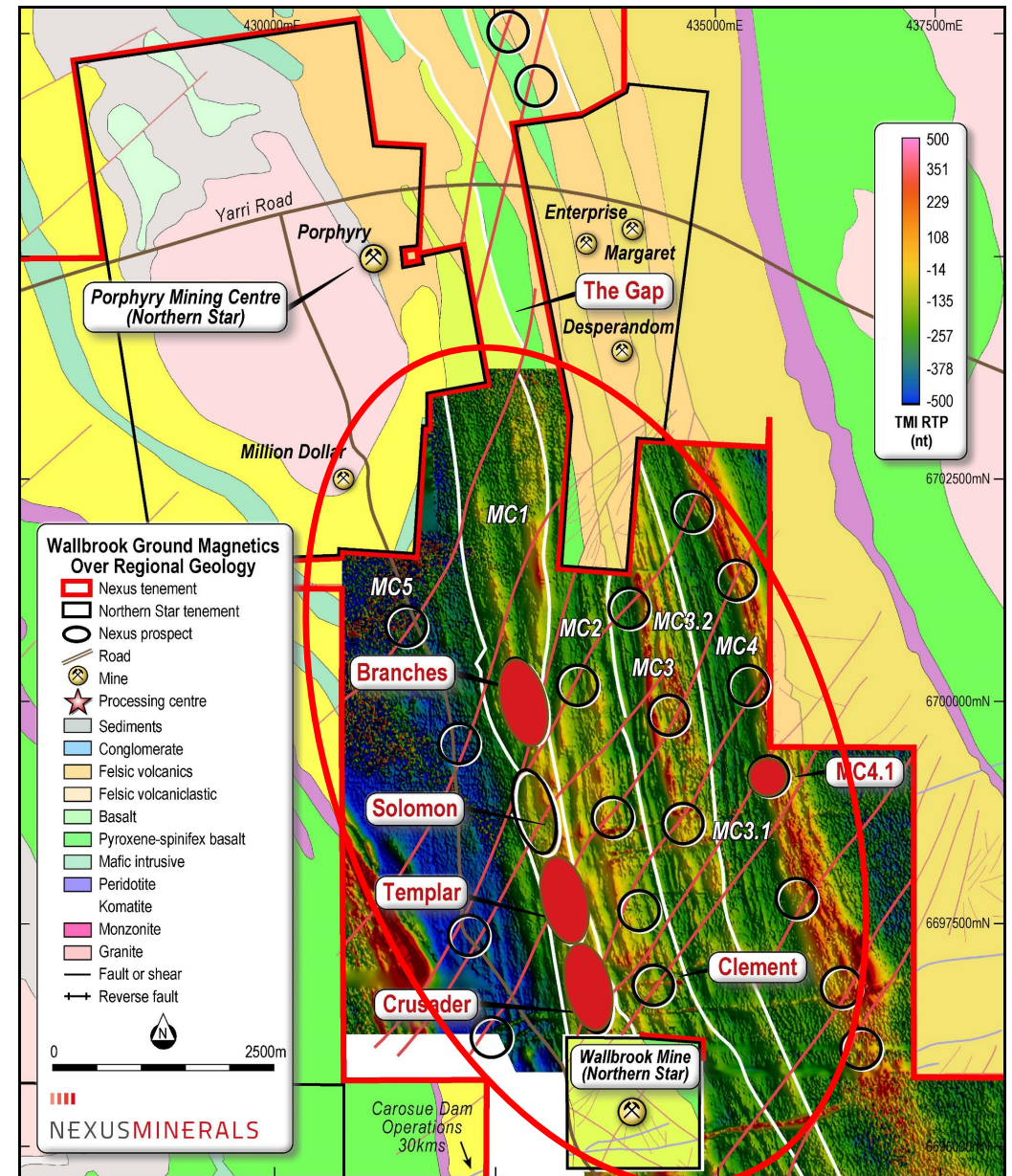
- Regional “Gold Camp” prospectivity confirmed with Branches discovery in 2022 and MC4.1 in 2023
- 5 Mineralised Corridors identified to date – MC1 to MC5
- ~90% of 204km<sup>2</sup> tenement package yet to be explored
- Gold mineralisation associated with gravity low corridor + mag low + N/E structures

### Regional Exploration Completed

- Ground magnetic and gravity surveys
- Aircore and RC drill programs completed at Branches & MC4.1
- Heritage ground survey recently completed - report pending

### Regional Exploration Planned

- Multiple prospects identified for Aircore reconnaissance drilling

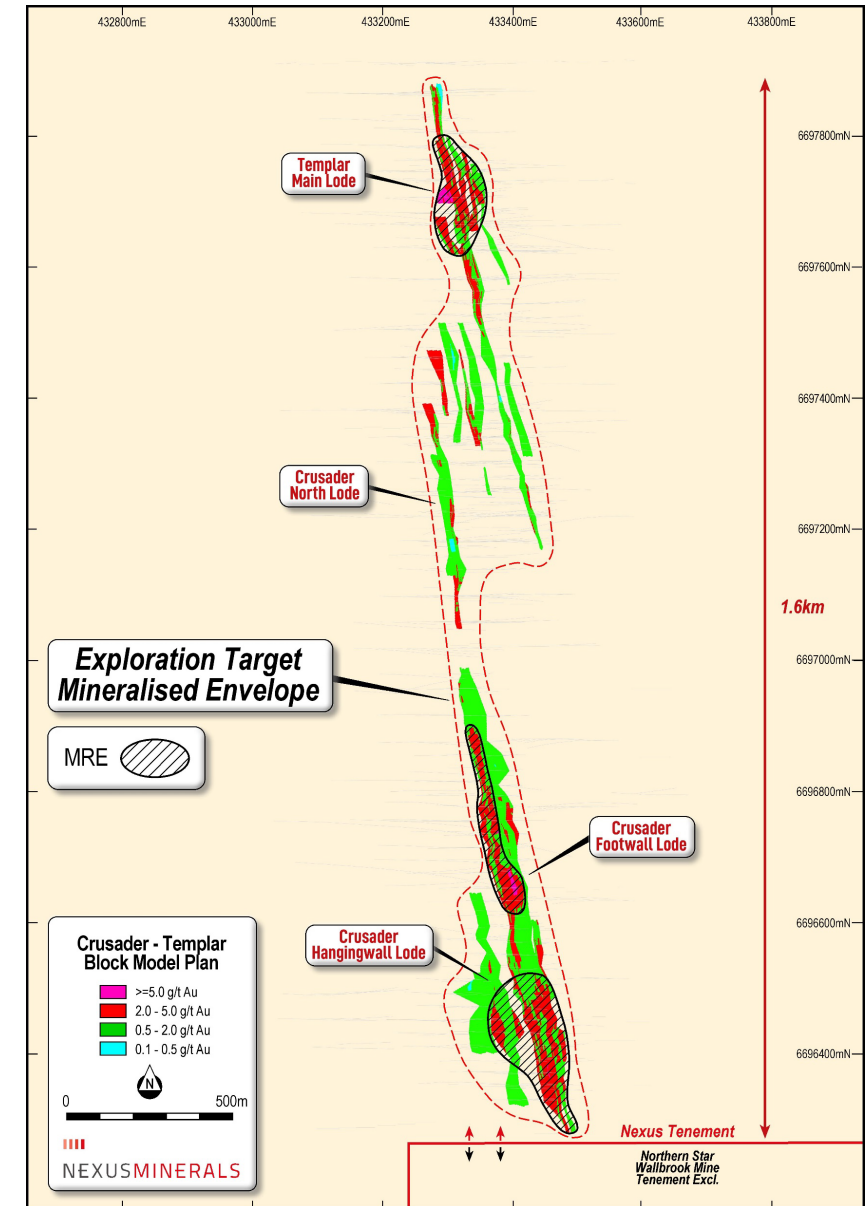


# CRUSADER-TEMPLAR PROSPECT

- 1.6km strike mineralised corridor / 100% Nexus' owned / Granted ML tenements
- Metallurgical testwork returned high gold recoveries Oxide 98% / Fresh 97.6%
- Flora & Fauna and Heritage surveys completed – no issues raised
- Exploration Target = Mineralised envelope

Tonnes Low	Tonnes High	Grade (g/t Au) Low	Grade (g/t Au) High	Contained Gold Ounces Low	Contained Gold Ounces High
10,000,000	14,000,000	1.50	1.75	480,000	790,000

- Combined Mineral Resource Estimate
  - 2.57Mt @ 2.12g/t Au for 175,000 ounces (1g/t Au cut-off) including:
    - Indicated: 1.02 Mt @ 2.5g/t Au for 81,000 ounces (25m x 25m drill density)
    - Inferred: 1.55 Mt @ 1.9g/t Au for 94,000 ounces (40m x 40m drill density)
- Mine studies well advanced – Completion expected end March  
Opportunity exists for a low risk, high margin open pit mining operation
- Technical service groups, mine and haulage contractors, 3<sup>rd</sup> party toll treatment processing options - all providing inputs to the study process
- Next Steps – Update MRE and undertake Scoping Study



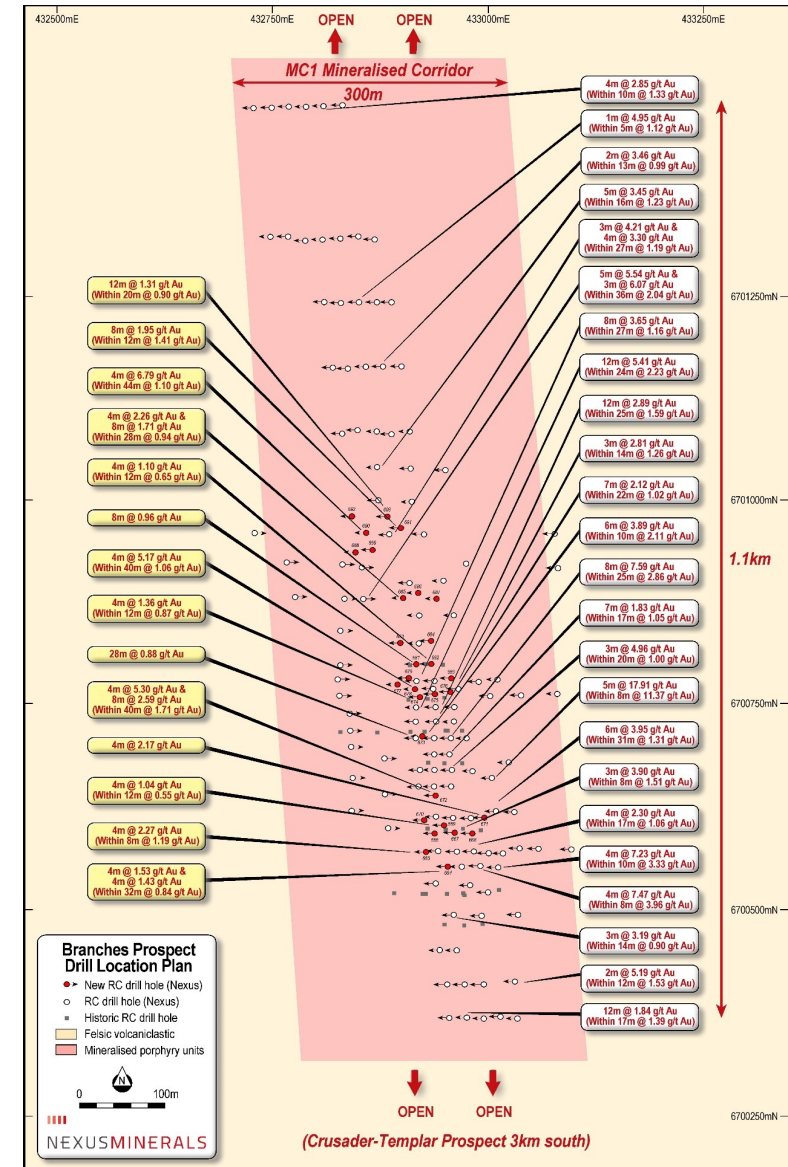
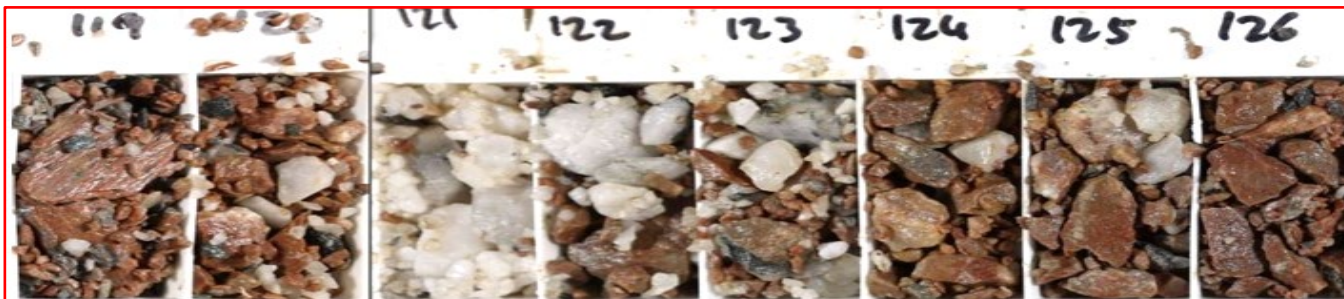


# BRANCHES PROSPECT

➤ Mineralised corridor now 1.1km x 300m (remains open)

➤ RC drill results have included:

- 5m @ 17.91g/t Au (within 8m @ 11.37g/t Au from 118m)
- 5m @ 5.45g/t Au (within 36m @ 2.04g/t Au from 43m)
- 12m @ 5.21g/t Au (within 24m @ 2.23g/t Au from 25m)
- 8m @ 7.59g/t Au (within 25m @ 2.86g/t Au from 43m)
- 4m @ 7.23g/t Au (within 10m @ 3.33g/t Au from 115m)
- 4m @ 7.47g/t Au (within 8m @ 3.96g/t Au from 73m)
- 4m @ 6.79g/t Au (within 12m @ 3.21g/t Au from 24m)
- 4m @ 5.30g/t Au (within 40m @ 1.71g/t Au from 16m)



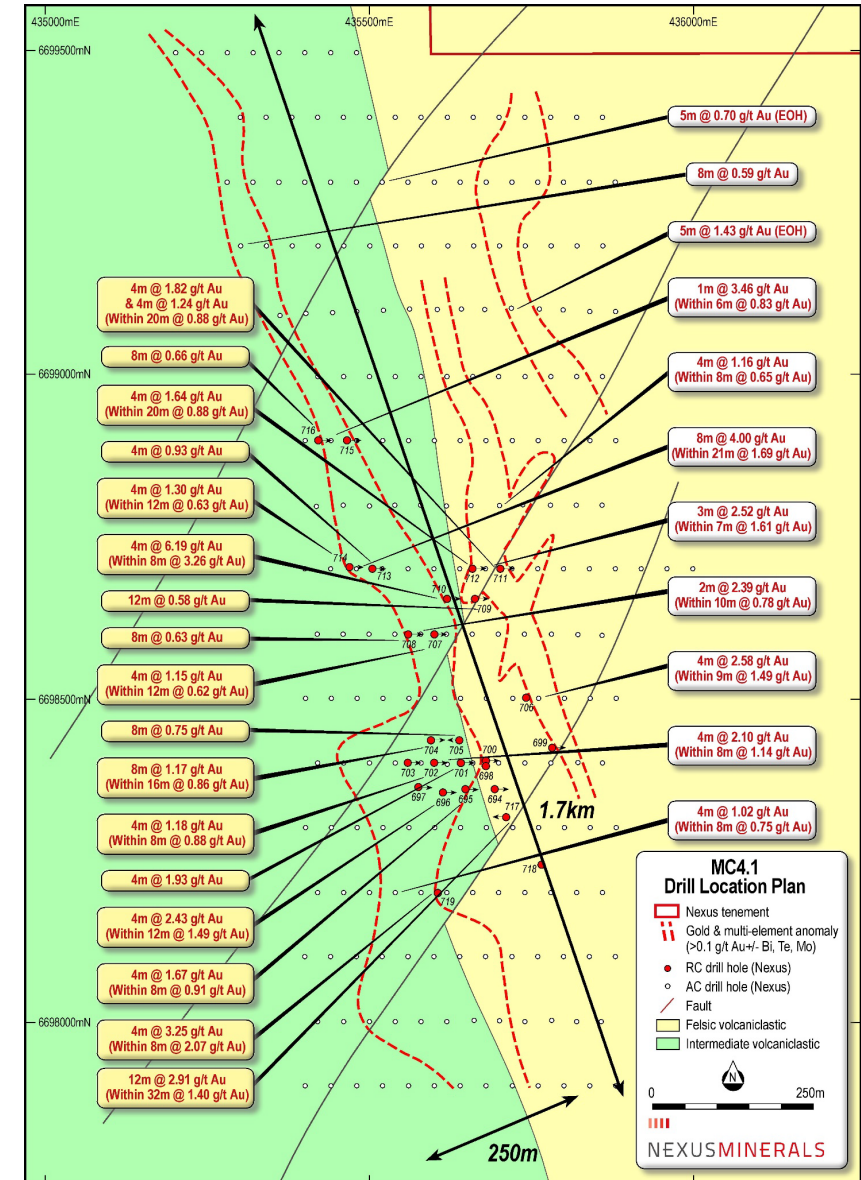
# REGIONAL EXPLORATION

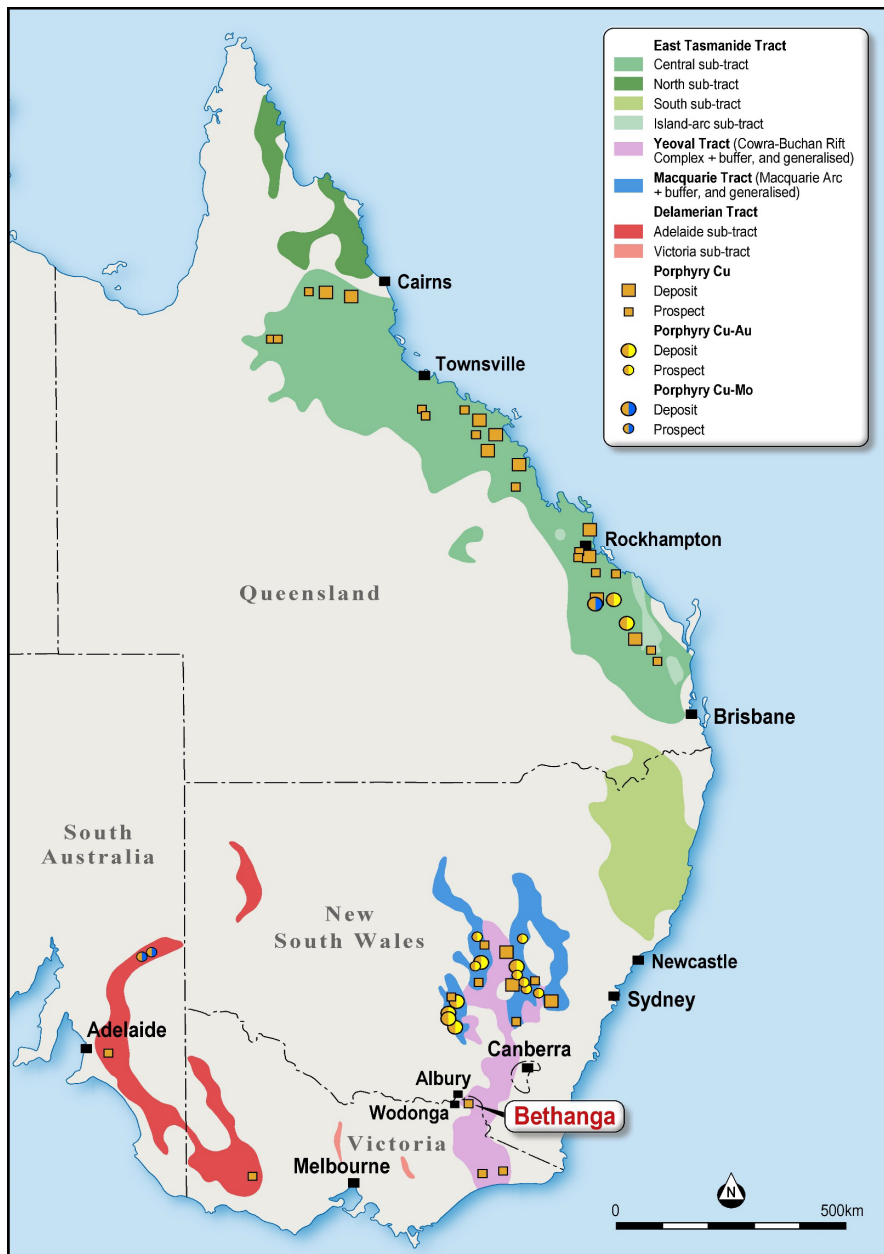
## MC4.1 PROSPECT

➤ Initial RC drilling at MC4.1 has returned outstanding results, including:

- 12m @ 2.91 g/t Au (within 32m @ 1.40 g/t Au from 8m)
- 4m @ 6.19 g/t Au (within 8m @ 3.26 g/t Au from 96m)
- 4m @ 3.25 g/t Au (within 8m @ 2.07 g/t Au from 60m)
- 4m @ 2.43 g/t Au (within 12m @ 1.49 g/t Au from 76m)
- 4m @ 1.82 g/t Au & 4m @ 1.24 g/t Au (within 28m @ 0.66 g/t Au from 12m)
- 4m @ 1.64 g/t Au (within 20m @ 0.88 g/t Au from 72m)

➤ Mineralisation hosted in quartz-goethite and silicified shear zones associated with lithological contact





## COMPANY PROJECTS

# BETHANGA PORPHYRY Cu-Au PROJECT

### TARGETING = LARGE SCALE PORPHYRY Cu-Au SYSTEM

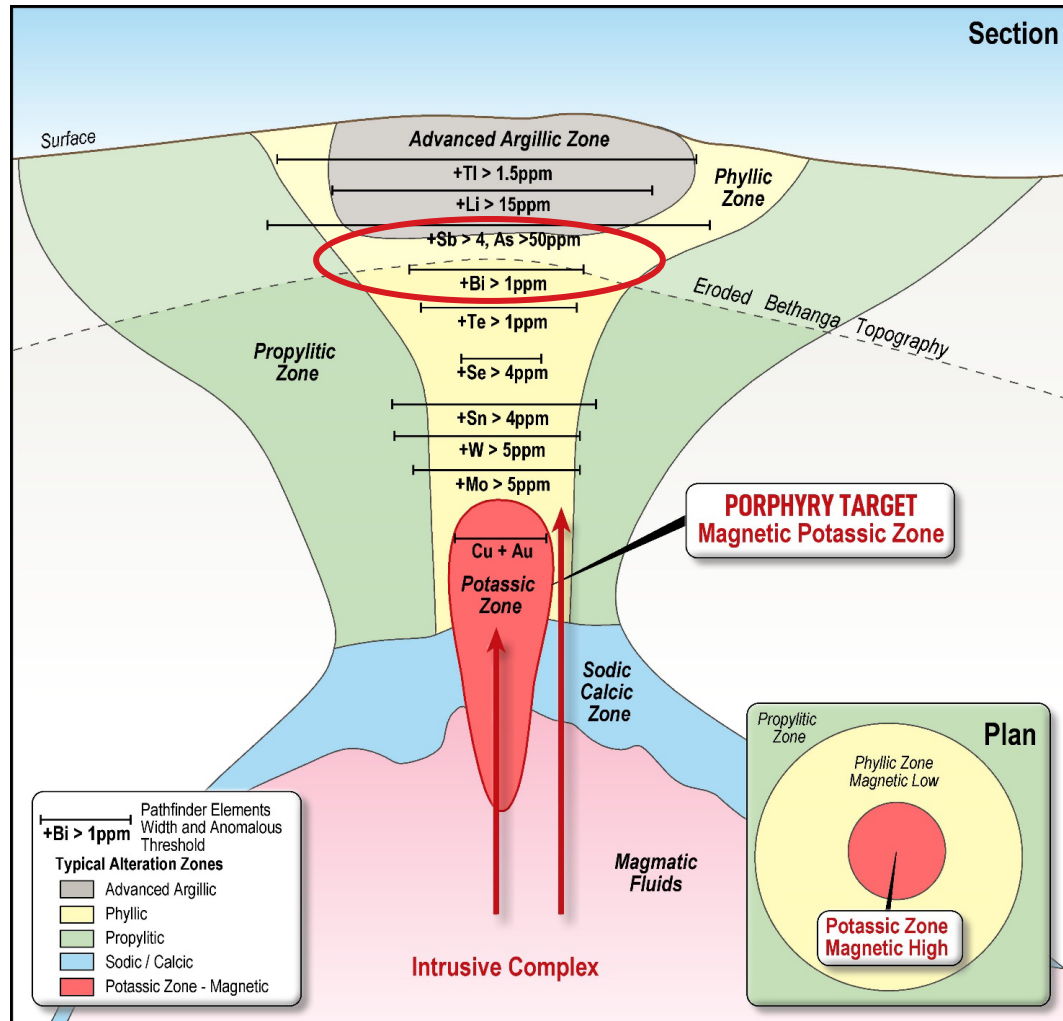
- Exploration Tenements cover 130km<sup>2</sup>
- Located in Australia's premier Porphyry Copper-Gold geological terrain
- Same Paleozoic rock package as the world class Cadia-Ridgeway and Northparkes Porphyry Copper-Gold projects further north in NSW
- The project area is recognised by Geological Survey of Victoria as a region prospective for Porphyry Copper-Gold and VHMS mineralisation

### 'THE RIGHT ROCKS'

- Historically mined for copper and gold at turn of the century (618t Cu and 94kOz Au at 39g/t)
- No exploration activity since 1987



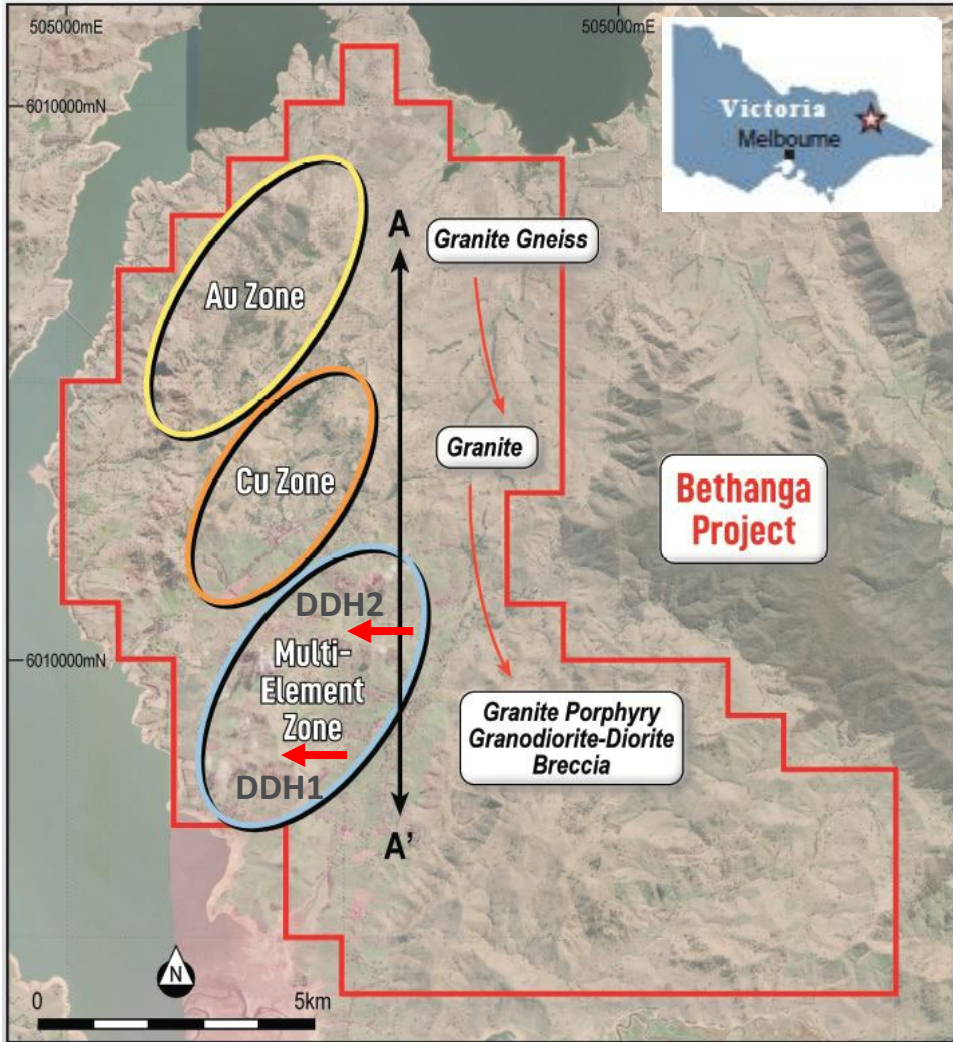
# PORPHYRY Cu-Au



# EXPLORATION MODEL

- Typical Cu-Au porphyries display a magnetic “potassic zone” at the core of the system containing alteration minerals magnetite, biotite and k-feldspar
- This potassic zone is surrounded by the non-magnetic “phyllic zone” containing quartz, sericite/white mica (illite / muscovite) and pyrite
- This zone extends outwards to the “propylitic zone” containing chlorite, epidote and carbonate
- This zonation can result in a magnetic response comprising a magnetic high (potassic zone) surrounded by a magnetic low (phyllic zone)
- Surface rock chip data shows highly anomalous Sb & As +/- Bi defining the approximate vertical position

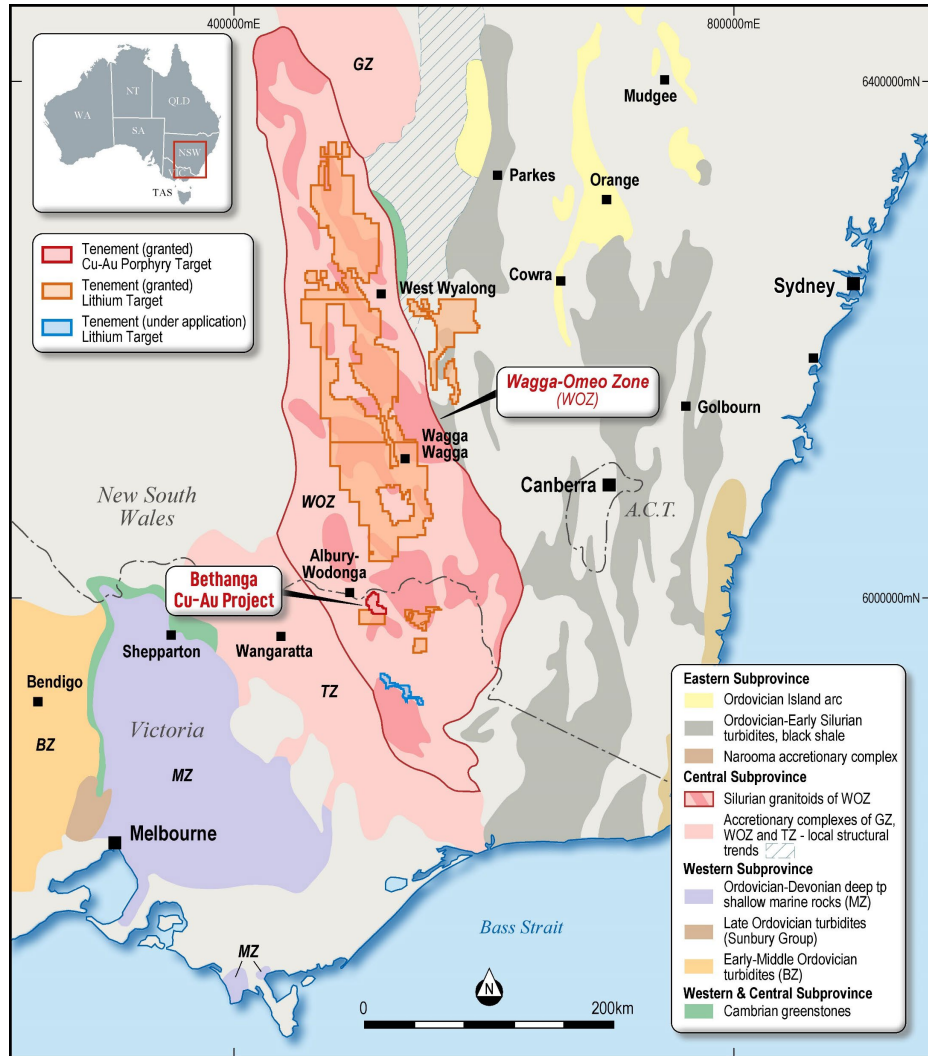
## PORPHYRY Cu-Au



## FERTILITY STUDY POSITIVE RESULTS

- ✓ Fertility study returned positive results
- ✓ Diamond drill program commenced February 2024 ~2,000m program
- ✓ DDH1 completed at 498m – logging & sampling underway
- ✓ DDH2 commenced - currently at 160m depth / planned depth 500m
- ✓ The porphyry target zone covers ~8km x 3km, with a high priority target zone of ~3km x 1.5km
- ✓ Aeromagnetic and ground magnetic surveys confirm existence of multi-phase magnetic intrusive complex – indicative of the core of a porphyry Cu-Au system
- ✓ Rock chip and soil geochemistry confirms the elemental association of magmatic-hydrothermal fluids originating from a fertile porphyry Cu-Au system

# CRITICAL MINERAL SEARCH – First Mover Advantage – “Mega Peg”

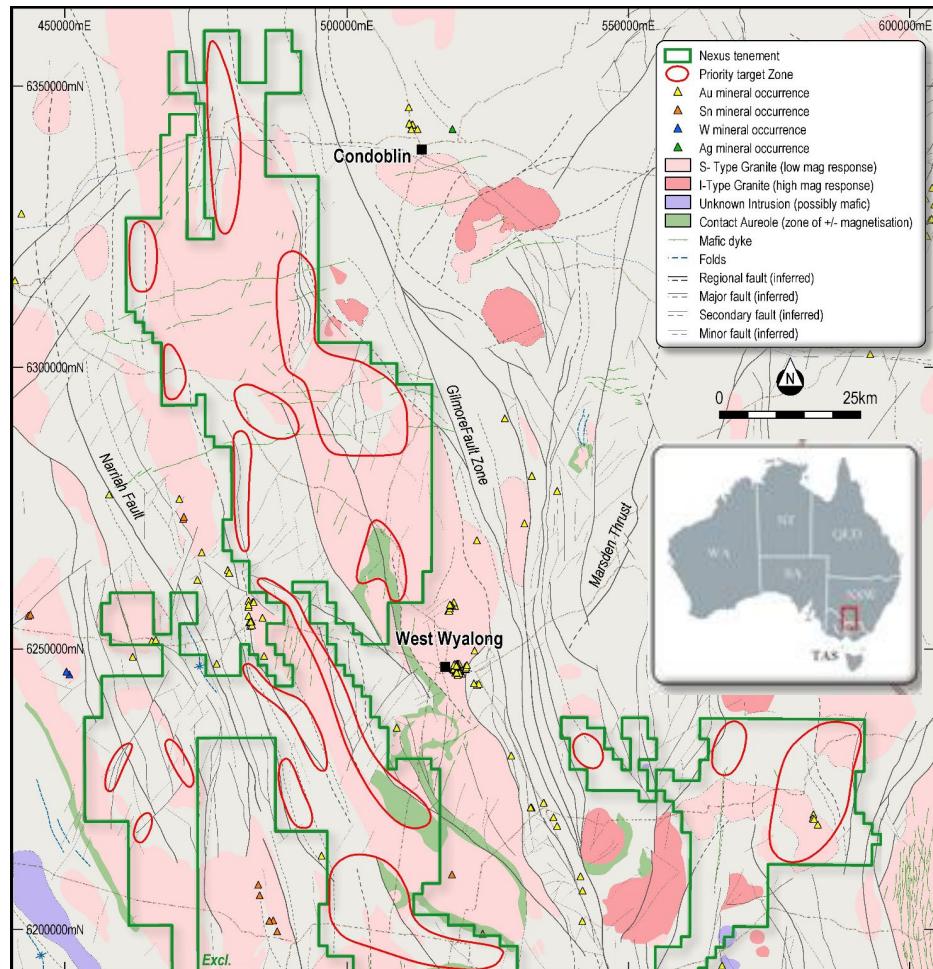


- Nexus Minerals has been granted over **15,000km<sup>2</sup>** of prospective tenure in north-east Victoria and NSW
- First mover advantage allows for regional scale exploration targeting with one of the largest pegging exercises in NSW history
- Nexus will be exploring for **Gold** and the following critical minerals:

## Lithium - Caesium - Tantalum - Tin - Copper

- Lithium-caesium-tantalum (LCT) pegmatites are associated with highly fractionated, reduced S-type Silurian granites that often also host tin mineralization
- The Wagga-Omeo Zone (WOZ) – host to extensive emplacement of Silurian granites and tin mining operations and occurrences
- Hence WOZ is determined to be highly prospective for LCT pegmatites and associated tin mineralisation
- The WOZ extends ~700km in a north-south direction and averages ~80km east-west

## CRITICAL MINERAL SEARCH - NSW



- A review of open file geology and whole-rock geochemistry confirmed that much of the exploration ground granted in southern NSW is underlain by reduced, fractionated, peraluminous S-type granites
- Southern Geoscience Consultants have completed the first tranche of the interpretation and targeting exercise covering the northern half of the project area
- Numerous high priority target zones have been identified that are considered prospective for gold, copper, LCT pegmatites and tin mineralisation.
- The targeting exercise reviewed geological and geophysical data with the aim being to identify mineralisation “signatures”
- These signatures, in conjunction with structural setting, structural complexity, dilatational settings (faults/shear zones) and proximity to known mineral occurrences identified the priority target zones
- Field crews have commenced ground truthing and orientation sampling

# PLANNED EXPLORATION ACTIVITIES

## Wallbrook

- Update Crusader-Templar MRE
- Undertake Scoping Study
- Geotechnical / Metallurgical / Diamond Drilling
- Post receipt of Heritage Survey Report – Aircore drill testing regional targets

## Bethanga

- Diamond drill program continues
- Diamond drill results

## NSW/VIC

- Field Mapping and Sampling



Image: Diamond Drilling – Bethanga 2024





# SUMMARY

## WESTERN AUSTRALIA GOLD

- Highly prospective and strategic landholding
- Crusader-Templar Prospect discovery in 2021
  - Update MRE and undertake Scoping Study
- Branches Prospect discovery in 2022
- Multiple drill ready regional aircore targets
- Well funded & active gold explorer

## NSW AND VICTORIA CRITICAL MINERALS

- Bethanga Porphyry Cu-Au project
  - ~2,000m diamond drill program commenced Feb 2024
- NSW & Victoria Critical Minerals project – ~15,000km<sup>2</sup> recently granted
  - Processing of regional geophysical datasets underway
  - Ground reconnaissance mapping and sampling commenced

- *Quality Projects*
- *'The Right Rocks'*
- *Professional and Experienced Management Team*
- *Well Funded with*  
*\$6.2M Cash on Hand at 12/3/2024*

## THANK YOU

For further information please contact:

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Managing Director

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**Email:** [info@nexus-minerals.com](mailto:info@nexus-minerals.com)

**Website:** [nexus-minerals.com](http://nexus-minerals.com)

NEXUS MINERALS LIMITED

**ASX:** NXM

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PO Box 2803,  
West Perth WA 6872

# SUMMARY APPENDIX 1 JORC TABLES

Crusader-Templar Prospect Combined JORC 2012 Mineral Resource Estimate (1g/t Au cut-off)

Deposit	Category	Tonnes	Grade (g/t Au)	Au (oz)
Crusader	Indicated	850,000	2.5	68,000
	Inferred	503,000	1.7	27,000
Templar	Indicated	170,000	2.4	13,000
	Inferred	1,048,000	2.0	67,000
TOTAL	Indicated	1,021,000	2.5	81,000
	Inferred	1,551,000	1.9	94,000
GRAND TOTAL		2,572,000	2.1	175,000

Northern Star Ltd Carosue Dam Resource Table as at 29/8/2022

	Measured			Indicated			Inferred			Total Resources		
	Tonnes (000's)	Grade (gpt)	Ounces (000's)	Tonnes (000's)	Grade (gpt)	Ounces (000's)	Tonnes (000's)	Grade (gpt)	Ounces (000's)	Tonnes (000's)	Grade (gpt)	Ounces (000's)
NST ATTRIBUTABLE INCLUSIVE OF RESERVE												
CAROSUE DAM GOLD PROJECT												
Surface	3,794	1.6	195	22,687	1.7	1,217	10,467	1.6	522	36,947	1.6	1,934
Underground	7,583	3.0	727	12,685	2.5	1,036	5,977	2.9	473	26,244	2.7	2,235
Stockpiles	2,526	1.8	58	-	-	-	-	-	-	2,526	1.8	58
Gold in Circuit	-	-	-	-	-	-	-	-	-	-	-	-
Sub-Total Carosue Dam	13,903	2.2	980	35,371	2.0	2,253	16,444	2.1	995	65,718	2.1	4,227

Northern Star Ltd Carosue Dam Reserve Table as at 29/8/2022

	Proved			Probable			Total Reserve		
	Tonnes (000's)	Grade (gpt)	Ounces (000's)	Tonnes (000's)	Grade (gpt)	Ounces (000's)	Tonnes (000's)	Grade (gpt)	Ounces (000's)
NST ATTRIBUTABLE RESERVE									
CAROSUE DAM PROJECT									
Surface	588	1.2	23	15,996	1.5	768	16,584	1.5	791
Underground	4,019	3.0	392	6,124	2.7	527	10,143	2.8	919
Stockpiles	2,526	1.8	58	-	-	-	2,526	1.8	58
Gold in Circuit	-	-	7	-	-	-	-	-	7
Sub-Total Carosue Dam	7,133	2.1	481	22,120	1.8	1,295	29,252	1.9	1,776