# NEXUSMINERALS

# DIGGERS AND DEALERS CONFERENCE PRESENTATION

7 AUGUST 2023

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 "Australian 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 "Australian 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 'Australian 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. 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. 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, 16/10/18, 29/1/2018, 24/1/2019, 24/2/2019, 27/2/209, 15/3/2019, 2/4/2019, 9/4/2019, 9/4/2019, 16/4/2019, 18/4/2019, 29/5/2019, 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, 18/4/2020, 29/1/2020, 0/11/2020, 0/11/2020, 0/12/2020, 15/12/2020, 15/12/2020, 15/12/2020, 15/12/2020, 12/12/2020, 13/3/2020, 2/4/2021, 28/4/2021, 27/5/2021, 13/7/2021, 28/4/2021, 2/14/2021, 23/12/2021, 16/2/2022, 11/04/2022, 2/10/2022, 26/7/2022, 3/3/2022, 14/3/2022, 21/04/2022, 3/5/2022, 26/7/2022, 28/6/2022, 7/7/2022, 28/8/2022, 24/8/2022, 0/9/2023, 0/04/2023, 20/04/2023, 20/05/2023, 02/05/
- 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

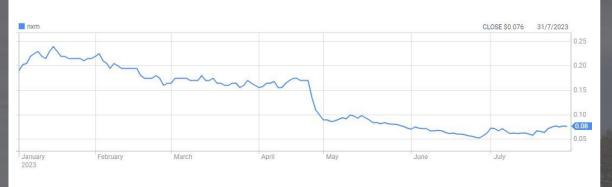


#### **CORPORATE OVERVIEW**

NEXUS MINERALS LIMITED	ASX: NXM
SHARES	325M
SHARE PRICE	A\$0.076
MARKET CAP	A\$24.7M
CASH (30/06/2023)	A\$4.424M
ENTERPRISE VALUE	A\$20.3M
TOP 20	25%

#### NXM OVERVIEW

ASX: NXM YTD



### **BOARD & MANAGEMENT**

CHAIRMAN	MR PAUL BOYATZIS	35 years equit
MANAGING DIRECTOR	MR ANDY TUDOR	37 years explo
NON-EXECUTIVE DIRECTOR	MR BRUCE MALUISH	33 years exper
COMPANY SECRETARY	MR PHIL MACLEOD	30 years comn

- 35 years equity markets and corporate governance
  37 years exploration geologist and management
  33 years experience as a mining professional
- 30 years commercial experience



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# COMPANY PROJECTS

# **TARGETING:**

Tantalum & Tin

#### WESTERN AUSTRALIA

Large scale gold deposits in WA's Eastern Goldfields

#### VICTORIA & NEW SOUTH WALES Large Porphyry Copper-Gold and Critical Minerals - Lithium, Caesium,



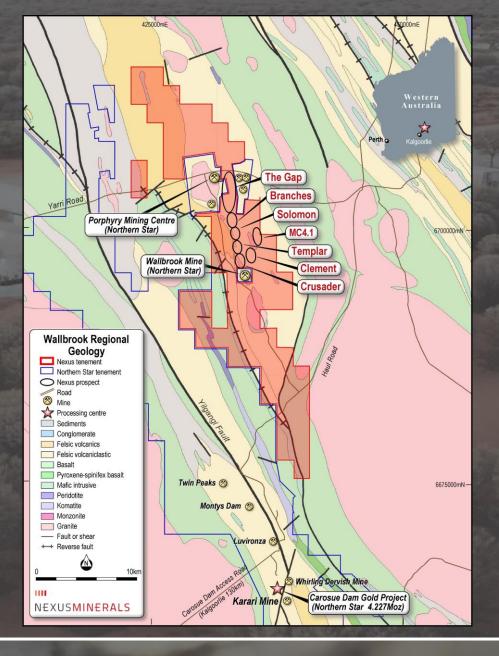
# COMPANY PROJECT WALLBROOK GOLD PROJECT

#### 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

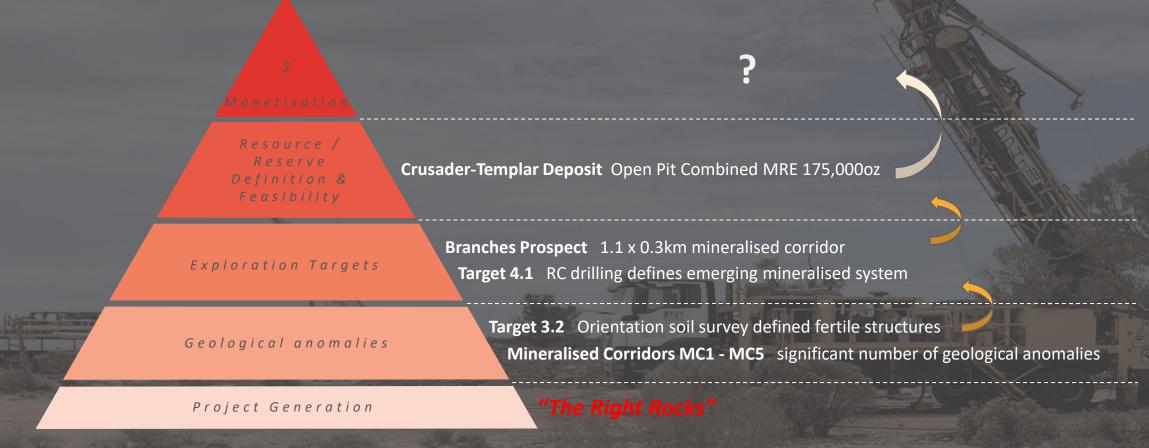
#### Multi Million Ounce Gold District – "The Right Rocks"

- Regional gold deposits are located
  - Proximal & Internal porphyry intrusions
  - Within altered intruded host rocks



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### SYSTEMATIC AND PROVEN EXPLORATION APPROACH IN AN EMERGING GOLD CAMP



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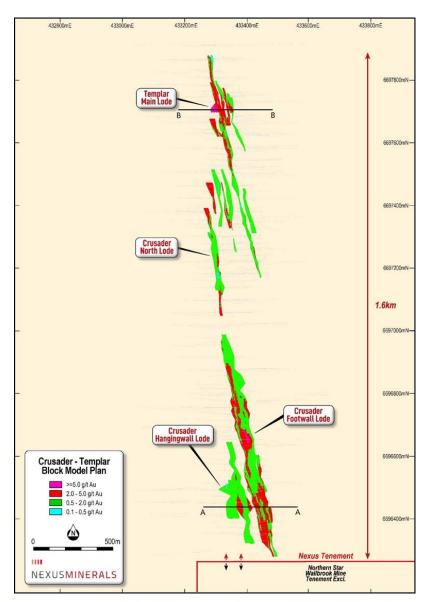
COMPANY PROJECTS WALLBROOK GOLD PROJECT WESTERN AUSTRALIA/EASTERN GOLDFIELDS

### **CRUSADER-TEMPLAR PROSPECT**

- 1.6km strike mineralised corridor / 100% Nexus' owned / Granted ML tenements
- Positive metallurgical testwork high gold recoveries Oxide material 98% / Fresh material 97.6% / Flora and Fauna survey completed – no issues raised
- Combined Mineral Resource Estimate Completed
  - 2.57 Mt @ 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)
  - MRE focussed on mine constrained open pit potential only
  - Preliminary mine studies show potential for a low risk, high margin open pit mining operation
  - MRE is within the larger 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

Note: The potential quantity 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**

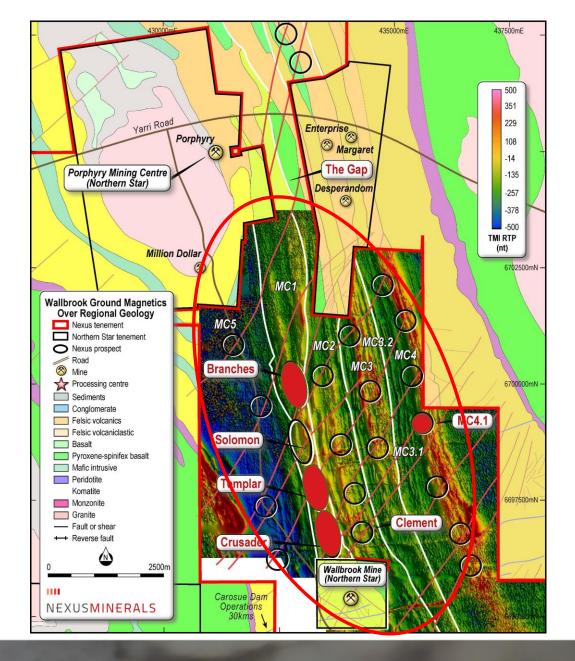
- Regional "Gold Camp" prospectivity confirmed with Branches discovery in 2022, and MC4.1 in 2023
- 5 Mineralised Corridors identified to date MC1 to MC5
- ~90% of 204km<sup>2</sup> tenement package yet to be explored

#### **Mineralisation is associated with**

Gravity low corridor + Mag low + NE structures

#### **Regional Exploration Completed**

- Ground magnetic survey
- Gravity survey
- Aircore and RC drill programs completed at Branches & MC4.1



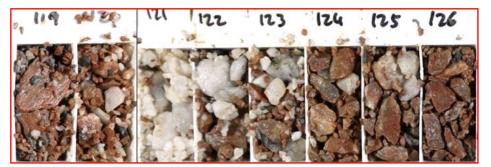
#### COMPANY PROJECTS WALLBROOK GOLD PROJECT WESTERN AUSTRALIA/EASTERN GOLDFIELDS

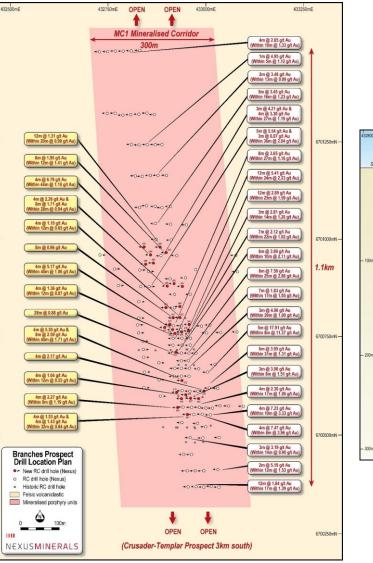
### **BRANCHES PROSPECT**

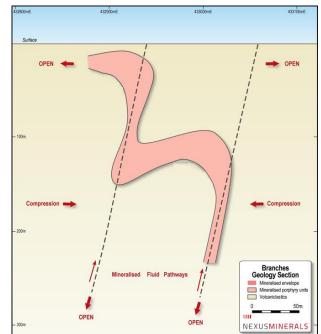
Mineralised corridor now 1.1km x 300m (remains open)

**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)







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### **REGIONAL EXPLORATION**

#### MC4.1 PROSPECT

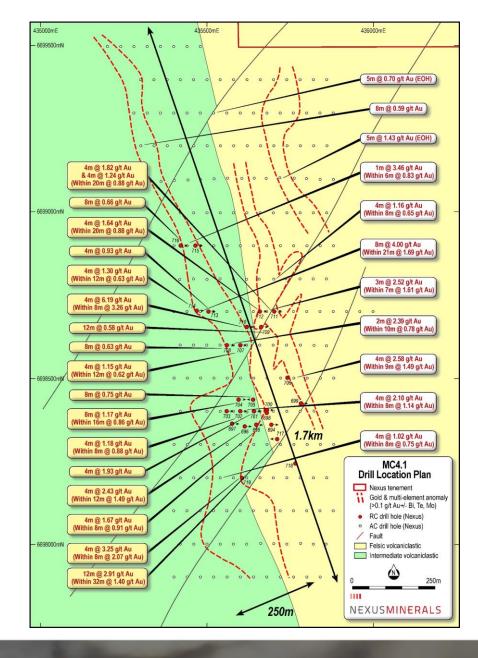
Initial RC drilling at MC4.1 has returned outstanding results, including:

- 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 hematite altered quartz porphyry

Same gold mineralisation style as Crusader-Templar and Branches prospects







### COMPANY PROJECTS BETHANGA PORPHYRY Cu-Au PROJECT

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

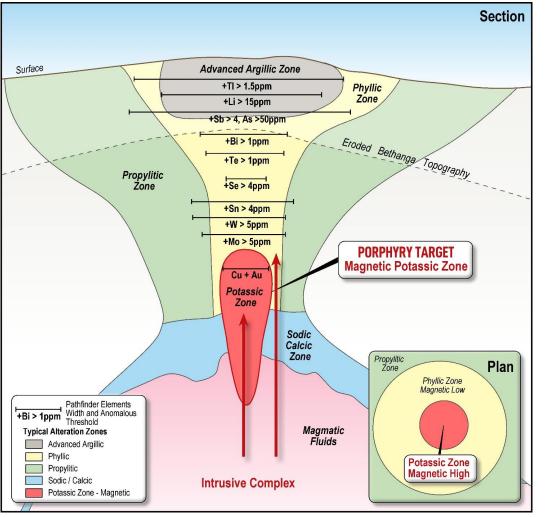
- Exploration Tenements cover 130km<sup>2</sup>
- Located in Australia's premier Porphyry Copper-Gold geological terrain
- Same geological host as the world class Cadia-Ridgeway and Northparkes Porphyry Copper-Gold projects further north in NSW
- The project area is recognised by Geological Survey of 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 118kOz Au at 39g/t ) No exploration activity since 1987

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# **PORPHYRY Cu-Au**



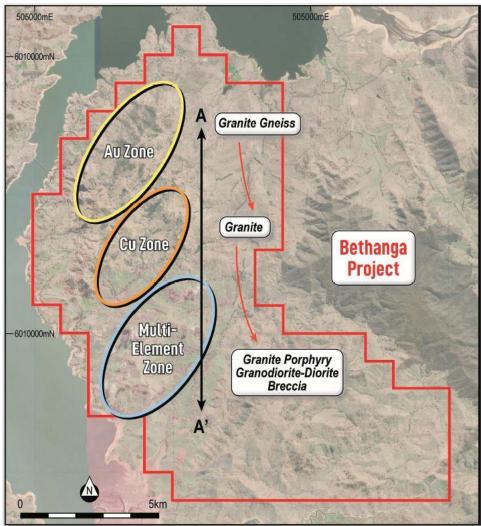
# **EXPLORATION MODEL**

- 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).

#### COMPANY PROJECTS BETHANGA PORPHYRY Cu-Au PROJECT VICTORIA

# **PORPHYRY Cu-Au**

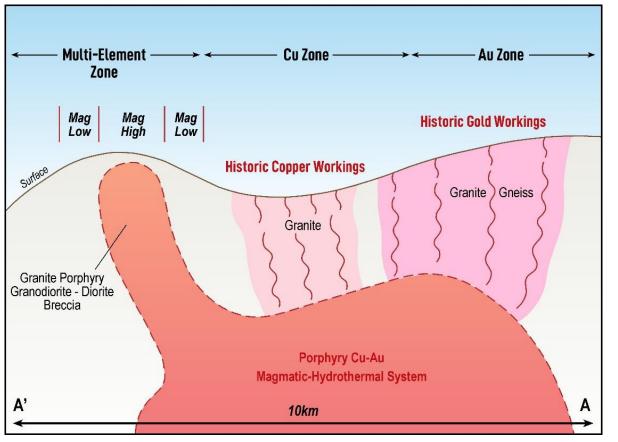
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# **FERTILITY STUDY POSITIVE RESULTS**

- ✓ Fertility study returned positive results
- ✓ 2,000m Diamond Drill program planned to commence in October
- ✓ 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 multiphase magnetic intrusive complex – indicative of the core of a porphyry Cu-Au system
- ✓ Rockchip and soil geochemistry confirms the elemental association of magmatic-hydrothermal fluids originating from a fertile porphyry Cu-Au system
- ✓ Dr Dennis Arne (Telemark Geosciences) geochemist with 40 years' experience leads the technical team

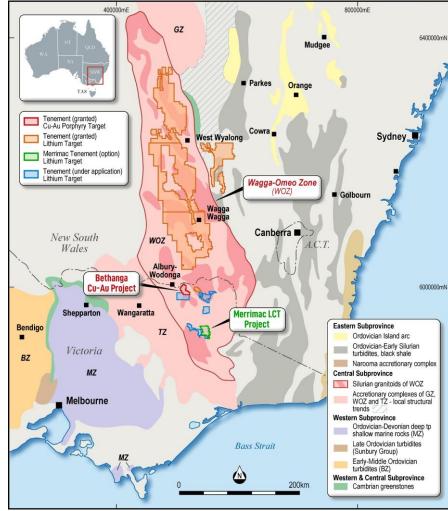
# **PORPHYRY Cu-Au – Bethanga Exploration Model – The Science\***



(\*From V J Morand 1990)

- Bethanga Gneiss considered to be pre-Ordovician (older than 480Ma)
- The Bethanga Gneiss may belong to a distinct metamorphic series not the regional Omeo Metamorphic Complex (OMC)
- The Bethanga Gneiss has distinct mineral assemblage of cordierite-garnet of sillimanite-K-feldspar grade
- Rocks of the OMC were formed at a pressure of about 3.5kbar corresponding to a depth of 10-12km. However, the Bethanga Gneiss mineralogy would suggest a pressure of 7kbar and a depth of ~20km?
- To have such high temperature minerals at such shallow crustal levels and to achieve the high geothermal gradient - large amounts of mantle-derived magmas would have to have intruded from the mantle to shallow levels of the crust?
- Therefore, such I-type plutons (and associated Cu-Au mineralisation) emplaced during the Silurian period (~420Ma) are potentially located below the presently exposed rocks?

# **CRITICAL MINERAL SEARCH – First Mover Advantage – "Mega Peg"**

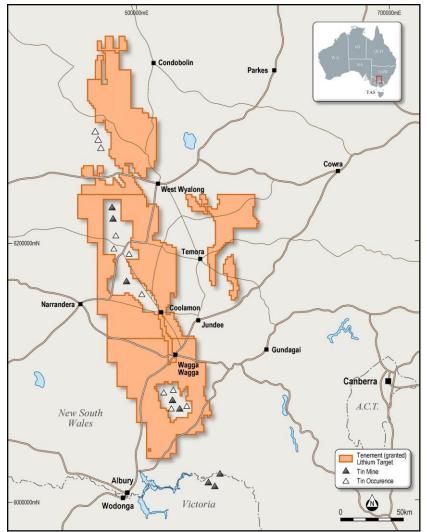


- Nexus Minerals has been granted over 15,000km<sup>2</sup> of prospective tenure in north-east Victoria and NSW
- First mover advantage allows for regional scale exploration targeting with one of the largest pegging exercises in NSW history
- Nexus will be exploring for the following critical minerals: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

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 The WOZ extends ~700km in a north-south direction and averages ~80km east-west

### **CRITICAL MINERAL SEARCH - NSW**



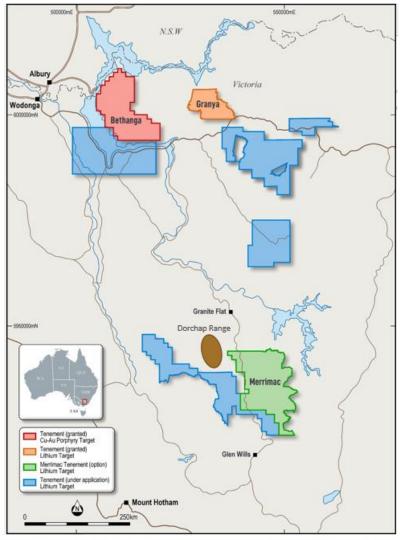
Over 15,000km<sup>2</sup> of prospective WOZ ground tenements granted

First mover advantage allows for regional scale exploration targeting with one of the largest pegging exercises in NSW history

Tenure considered prospective for: Lithium, Caesium, Tantalum and Tin

- 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
- A systematic, regional geological scale exploration targeting approach has commenced focused on discovery of large ore bodies
- Best available government and open-file company geophysics surveys compiled and re-processed, encompassing detailed magnetic, radiometric, and gravity data
- Data will now be used to accurately map granites according to their geophysical signatures to identify S-type granites, zoning and boundaries
- Typically LCT pegmatites are found approximately 3 to 6 km from the contact of a fertile granite intrusion ground truthing to commence in this zone

# **CRITICAL MINERAL SEARCH - Victoria**



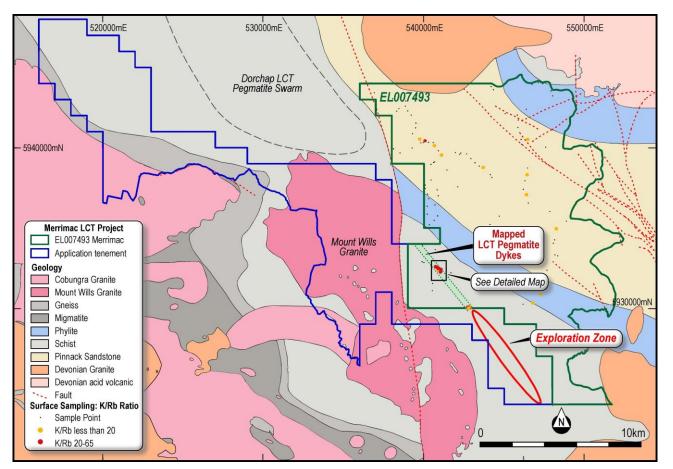
#### **LCT** Pegmatite Exploration

- The discovery of spodumene-bearing LCT pegmatite dykes in the Dorchap Range of north-eastern Victoria has spurred exploration interest for critical minerals in this region and further north into NSW
- The LCT pegmatites of the Dorchap Range are associated with the historical primary tin fields at Mitta Mitta and Mount Wills
- The Mount Wills granite, dated at 420+/-4 Ma (Silurian) may also be genetically related to the LCT pegmatites of the Dorchap Range
- Typically LCT pegmatites are found approximately 3 to 6 km from the contact of a fertile granite intrusion

#### **Granya LCT Project**

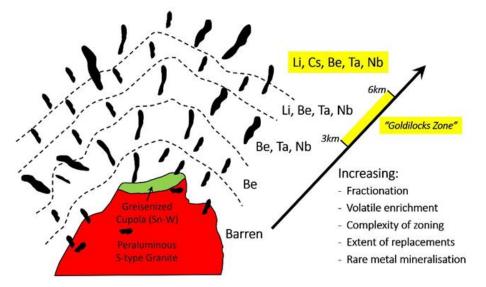
- Hosts the Thologolong Silurian granite intrusion
- Initial ground truthing has identified extensive pegmatite swarms 3 to 6km from contact
- Mapping and sampling program completed
- Pxrf orientation survey completed results pending

### **CRITICAL MINERAL SEARCH - Victoria**

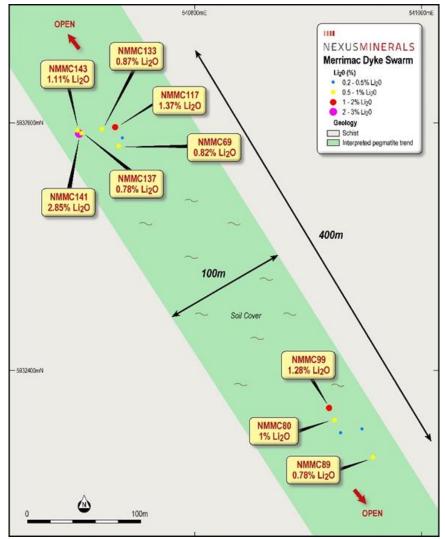


#### **Merrimac LCT Project- Overview**

- The Merrimac LCT Project provides over 10km strike of prospective LCT pegmatite ground
- The Mount Wills granite, dated at 420+/-4 Ma (Silurian) provides the fertile granitic intrusion
- Exploration target area situated in a 3-6km zone from the fertile Mount Wills Granite the *'Goldilocks Zone'*.



## **CRITICAL MINERAL SEARCH - Victoria**



#### **Merrimac LCT Project - results**

- Initial field mapping and sampling campaign at the Merrimac LCT Project has successfully identified LCT pegmatites
- A total of 13 rock chip samples returned anomalous and high-grade lithium assay results greater than 0.20% Li<sub>2</sub>O
- Five samples returned high grade Li<sub>2</sub>O including:
  - 2.85%, 1.37%, 1.28%, 1.11% and 1.00%
- Elevated geochemical suite Li, Ce, Ta, Be and Nb confirms presence of highly fractionated LCT pegmatite dykes
- Multi-element rockchip samples returned key fractionation indicator ratios K/RB, K/CS, Nb/Ta and Mg/Li
- Confirms project location in 'Goldilocks Zone' optimal distance from fertile source being 3-6km
- Mapping and sampling confirm high priority exploration zone on Nexus application tenement
- Granted tenement under option till November 2023





# **PLANNED EXPLORATION ACTIVITIES 2023**

		Jul-23	Aug-23	Sept-23	Oct-23	Nov-23	Dec-23		
	Crusader- Templar	Mir	ne Optimisation Stud	dies	Geotechnical / RC Drilling				
Wallbrook	Branches	Modelling and	interpretation						
	Target 4.1	Modelling and	interpretation						
	Regional			Heritage Survey		AC Drilling			
Bethanga Porphyry Cu-Au			Diamond Drill P	rogram Logistics	2,000m Diamor				
NSW LCT Pegmatites		Geo	ophysical Interpretat	tion	Field	d Mapping and Sam	pling		
Granya LCT Pegmatites		Interpretation	Interpretation and Planning						
Merrimac LCT Pegmatites		Interpretation	Interpretation and Planning						
VIC LCT Pegmatites		Tenure Under Application							



# **SUMMARY**

### WESTERN AUSTRALIA GOLD

- Highly prospective and strategic landholding
- Crusader-Templar Prospect discovery in 2021
- Branches Prospect discovery in 2022
- Well funded & active gold explorer in multi million-ounce Au region

### VICTORIA AND NSW CRITICAL MINERALS

- Bethanga Porphyry Cu-Au project positive fertility assessment drill ready
- NSW LCT Pegmatite project ~15,000km<sup>2</sup> recently granted / regional processing of geophysical datasets underway
- Merrimac LCT Pegmatite project high grade Li<sub>2</sub>O rock chip samples
- Victoria LCT Pegmatite projects 5 prospective areas under application

- Quality Projects
- 'The Right Rocks'
- Professional and Experienced Management Team
- Well Funded \$4.424 Million Cash on Hand

#### NEXUSMINERALS

# **THANK YOU**

For further information please contact:

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#### NEXUS MINERALS LIMITED ASX: NXM ABN: 96 122 074 006

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		d Indicated		Inferred			Total Resources				
	Tonnes	Grade	Ounces	Tonnes	Grade	Ounces	Tonnes	Grade	Ounces	Tonnes	Grade	Ounces
NST ATTRIBUTABLE INCLUSIVE OF RESERVE	(000's)	(gpt)	(000's)	(000's)	(gpt)	(000's)	(000's)	(gpt)	(000's)	(000's)	(gpt)	(000°s)
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	-		14		-	-					-	13
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

	P	roved		Probable			Total Reserve		
NST ATTRIBUTABLE 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)
CAROSUE DAM PROJECT									
Surface	588	1.2	23	15,996	1.5	768	16,584	1.5	79
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

