



# NEXUSMINERALS



**Euroz Hartleys Institutional Conference  
Presentation March 2022**

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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 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 this report that relates to the Crusader Mineral Resource Estimate is based upon information compiled by Mr Adam James, a Competent Person who is a member of The Australian Institute of Mining and Metallurgy and the Australian Institute of Geoscientists. Mr James was a full-time employee of Nexus Minerals Limited at the time of release. Mr James 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 James 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 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 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 and 4/03/2022.

• 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.

# COMPANY SNAPSHOT

## CORPORATE OVERVIEW

<b>Nexus Minerals Limited</b>	ASX: NXM
<b>Shares</b>	288 million
<b>Share Price</b>	A\$0.36
<b>Market Cap</b>	A\$104m
<b>Cash (31/12/2021)</b>	A\$22m
<b>Enterprise Value</b>	A\$82m
<b>Top 20</b>	27%

## BOARD AND MANAGEMENT

<b>Chairman</b>	Mr Paul Boyatzis
<b>Managing Director</b>	Mr Andy Tudor
<b>Non - Executive Director</b>	Dr Mark Elliott
<b>Non - Executive Director</b>	Mr Bruce Maluish
<b>Company Secretary</b>	Mr Phil MacLeod



ASX:NXM





## TARGETING

### ***LARGE SCALE GOLD DEPOSITS IN EASTERN GOLDFIELDS OF WESTERN AUSTRALIAN LARGE COPPER – GOLD PORPHYRY MINERALISED SYSTEMS IN VICTORIA***

#### Eastern Goldfields Western Australia

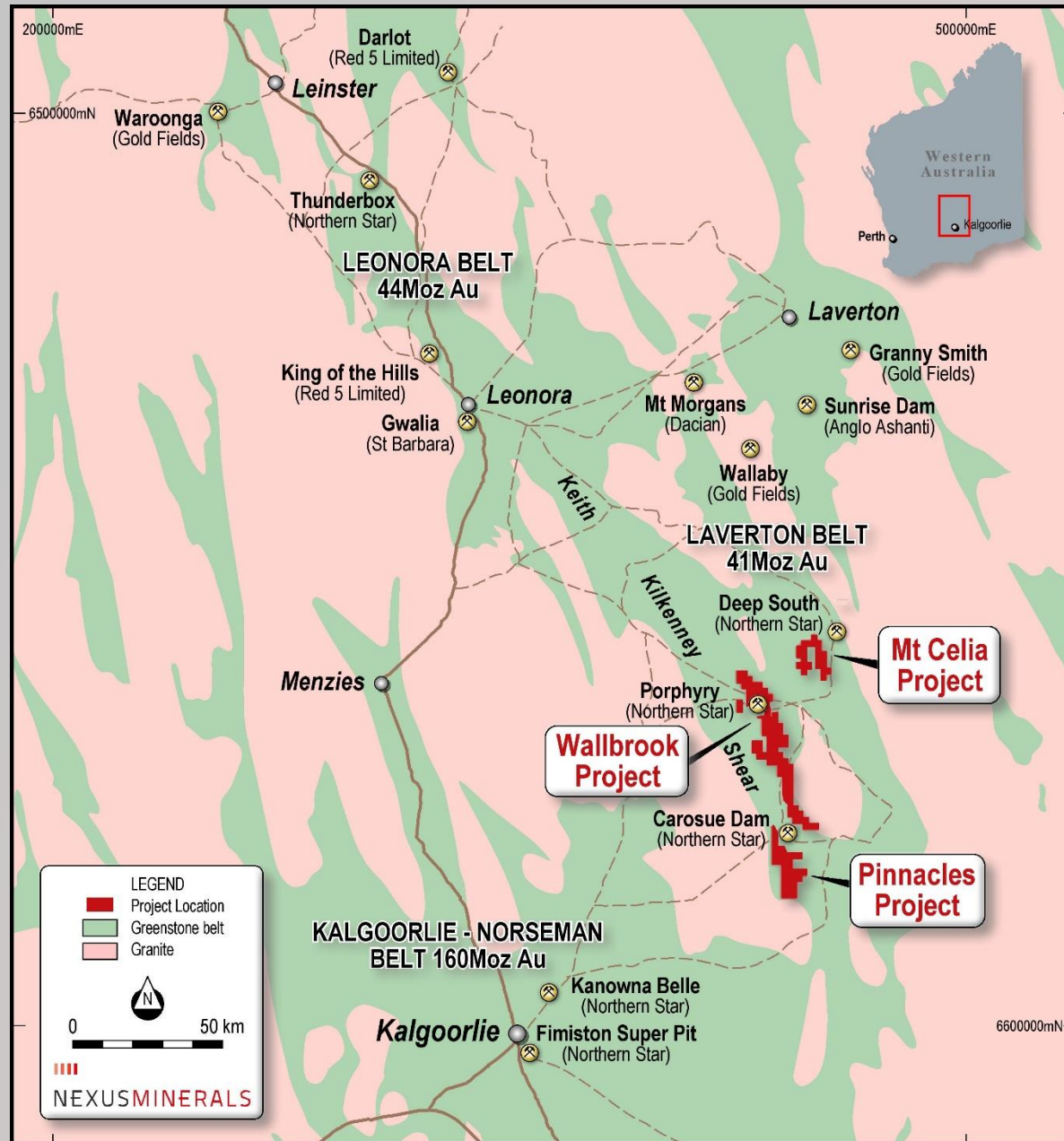
- Wallbrook Gold Project – 250km<sup>2</sup>
- Pinnacles Gold Project – 125km<sup>2</sup> JV with Northern Star (ASX:NST)
- Mt Celia Gold Project

#### Victoria Porphyry Cu-Au

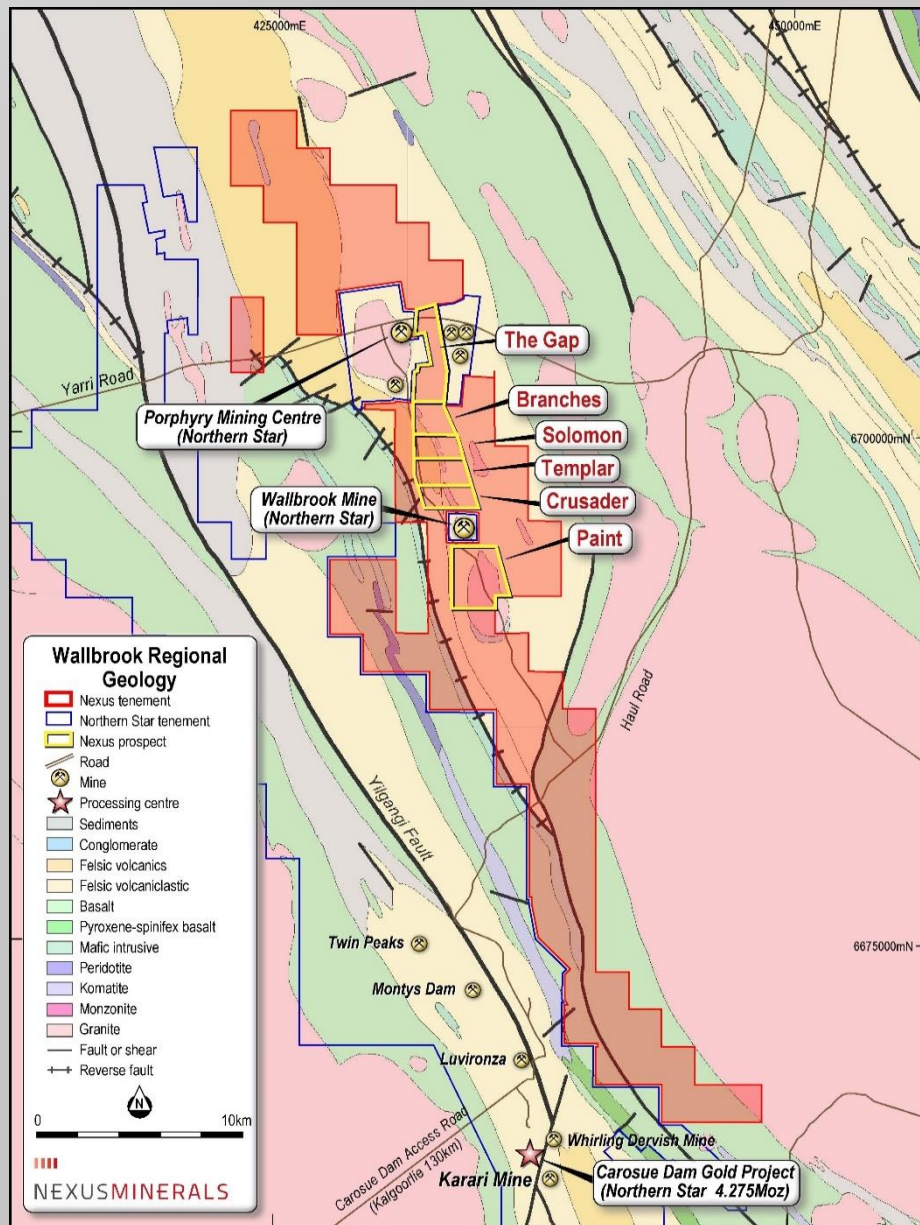
- Bethanga Porphyry Cu-Au – 194km<sup>2</sup>



# PROJECT LOCATIONS – EASTERN GOLDFIELDS



# WALLBROOK GOLD PROJECT

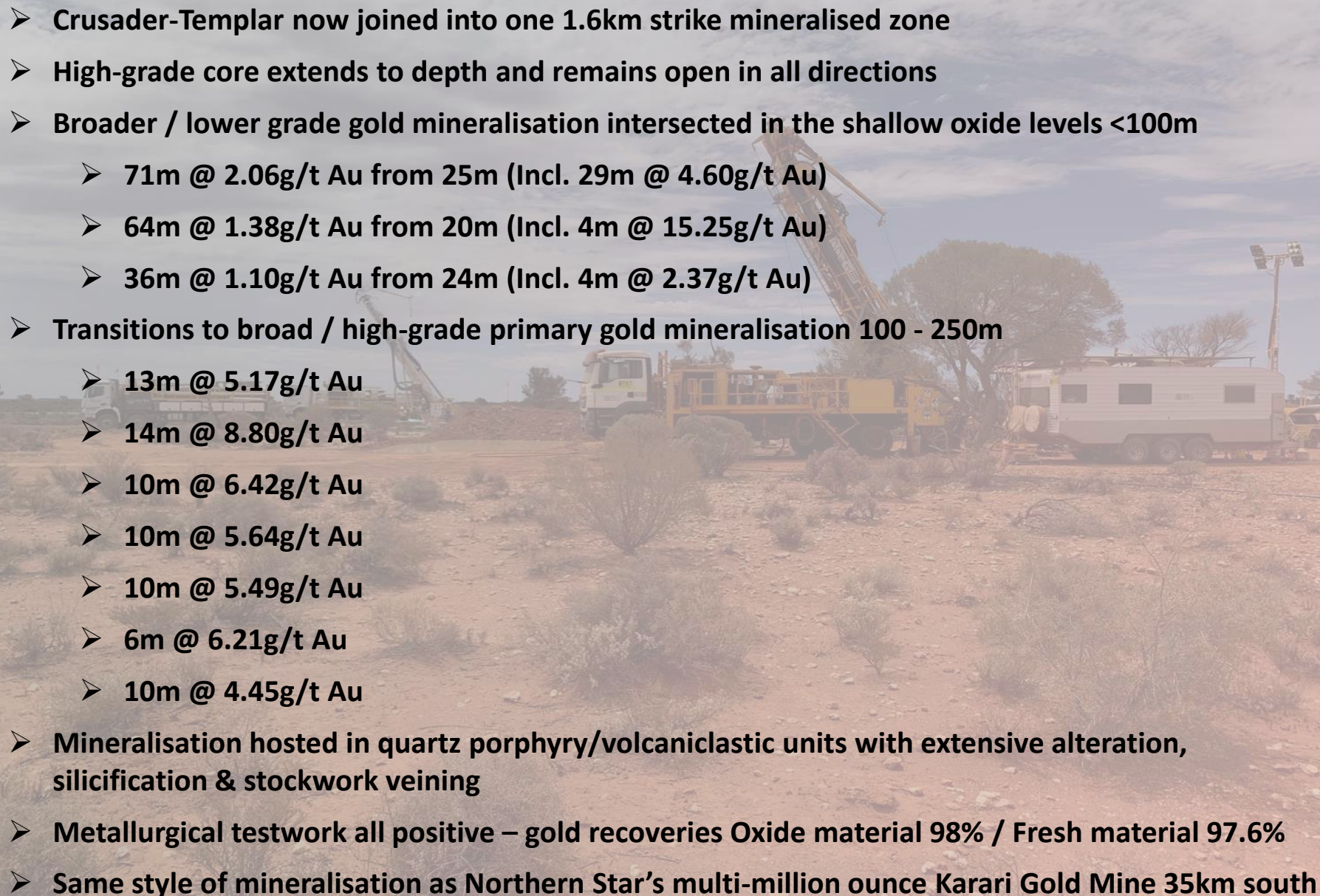


- 140km northeast of Kalgoorlie & in-between Northern Star's Carosue Dam Operations and Porphyry Mining Centre Operations
- Northern Star mining Porphyry Mining Centre sending ore to their Carosue Dam Operations 3.2Mtpa Mill – 35km to the south
- 250km<sup>2</sup> contiguous tenement package – Some 50km strike of prospective geology
- Paint Prospect to The Gap on granted ML's
- Geology & structural setting highly prospective for hosting gold mineralisation
- Largely unexplored landholding

## Multi Million Ounce Gold District

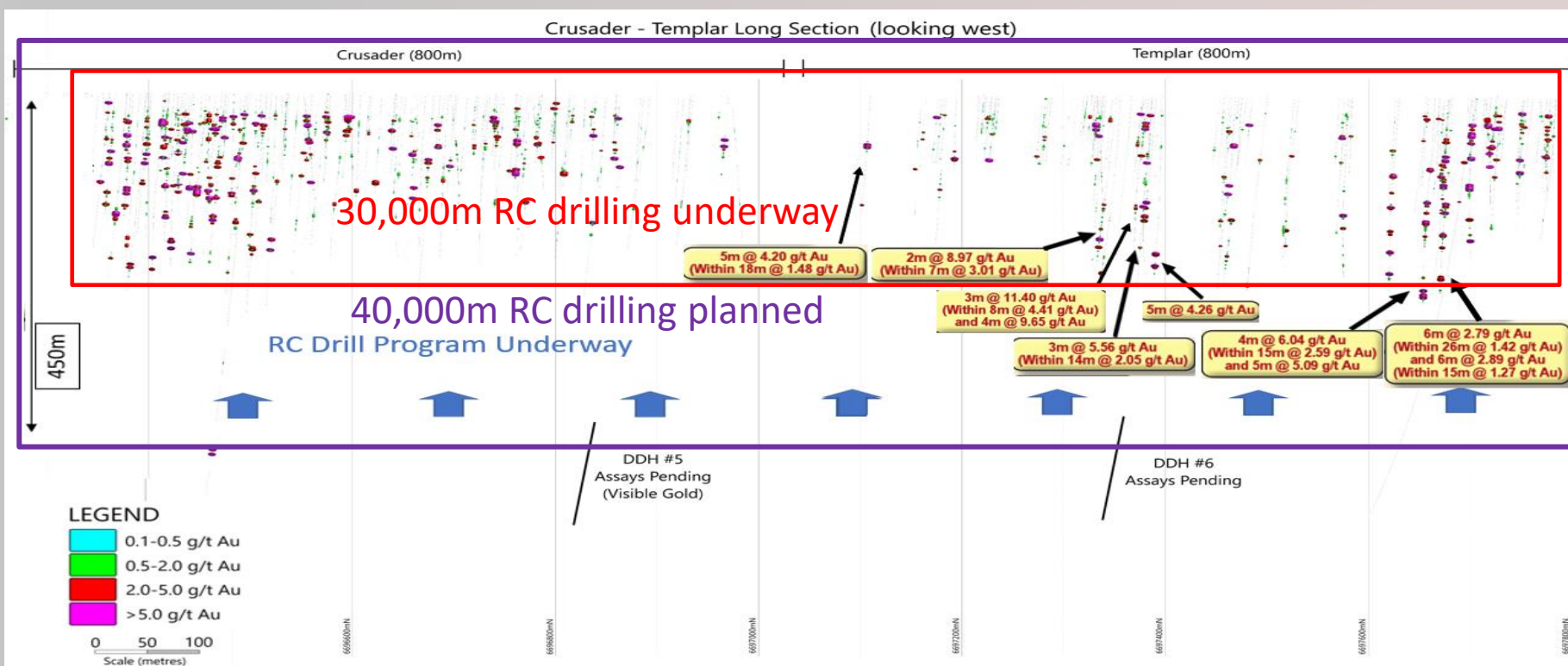
- Regional gold deposits are located
  - ✓ Proximal & Internal porphyry intrusions
  - ✓ Within altered intruded host rocks



- 
- Crusader-Templar now joined into one 1.6km strike mineralised zone
  - High-grade core extends to depth and remains open in all directions
  - Broader / lower grade gold mineralisation intersected in the shallow oxide levels <100m
    - 71m @ 2.06g/t Au from 25m (Incl. 29m @ 4.60g/t Au)
    - 64m @ 1.38g/t Au from 20m (Incl. 4m @ 15.25g/t Au)
    - 36m @ 1.10g/t Au from 24m (Incl. 4m @ 2.37g/t Au)
  - Transitions to broad / high-grade primary gold mineralisation 100 - 250m
    - 13m @ 5.17g/t Au
    - 14m @ 8.80g/t Au
    - 10m @ 6.42g/t Au
    - 10m @ 5.64g/t Au
    - 10m @ 5.49g/t Au
    - 6m @ 6.21g/t Au
    - 10m @ 4.45g/t Au
  - Mineralisation hosted in quartz porphyry/volcaniclastic units with extensive alteration, silicification & stockwork veining
  - Metallurgical testwork all positive – gold recoveries Oxide material 98% / Fresh material 97.6%
  - Same style of mineralisation as Northern Star's multi-million ounce Karari Gold Mine 35km south

# CRUSADER-TEMPLAR PROSPECT – NEW DISCOVERY

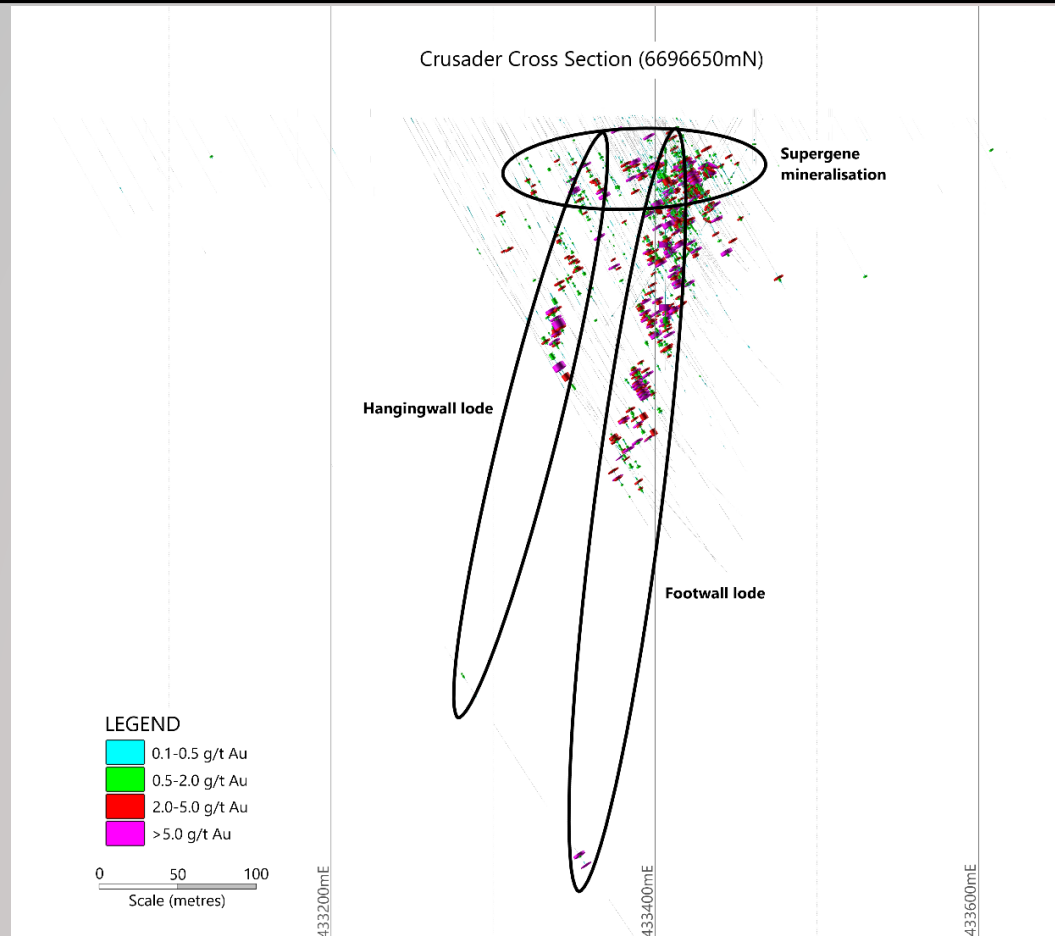
- Major Drill Programs Underway – 3 RC Drill rigs and 2 Diamond drill rigs on site
  - 30,000m RC program nearing completion
  - 40,000m RC program to immediately follow on
  - 6,000m diamond drill program underway
- Assay results received for 22 RC holes / 5,378m to date
- Assay results for a further 83 RC holes / 18,998m RC and 2 diamond drill holes expected in March
- Assay laboratory changed in January 2022 – 4 week turn around time now advised



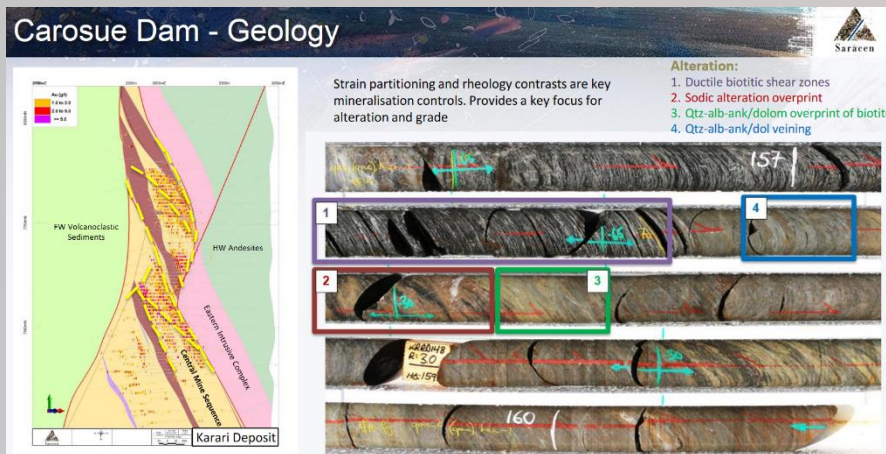


# CRUSADER-TEMPLAR PROSPECT – NEW DISCOVERY

- Cross-section of all Crusader Prospect drilling shows good continuity of mineralisation
- Three distinct zones of mineralisation:
  - Supergene zone (horizontal oxide)
  - Hangingwall lode zone (steeply dipping primary)
  - Footwall lode zone (steeply dipping primary)



# CRUSADER-TEMPLAR PROSPECT – NEW DISCOVERY



Hole DDH#1 3m @ 11.54g/t Au from 159m  
(Within 9m @ 4.49g/t Au)

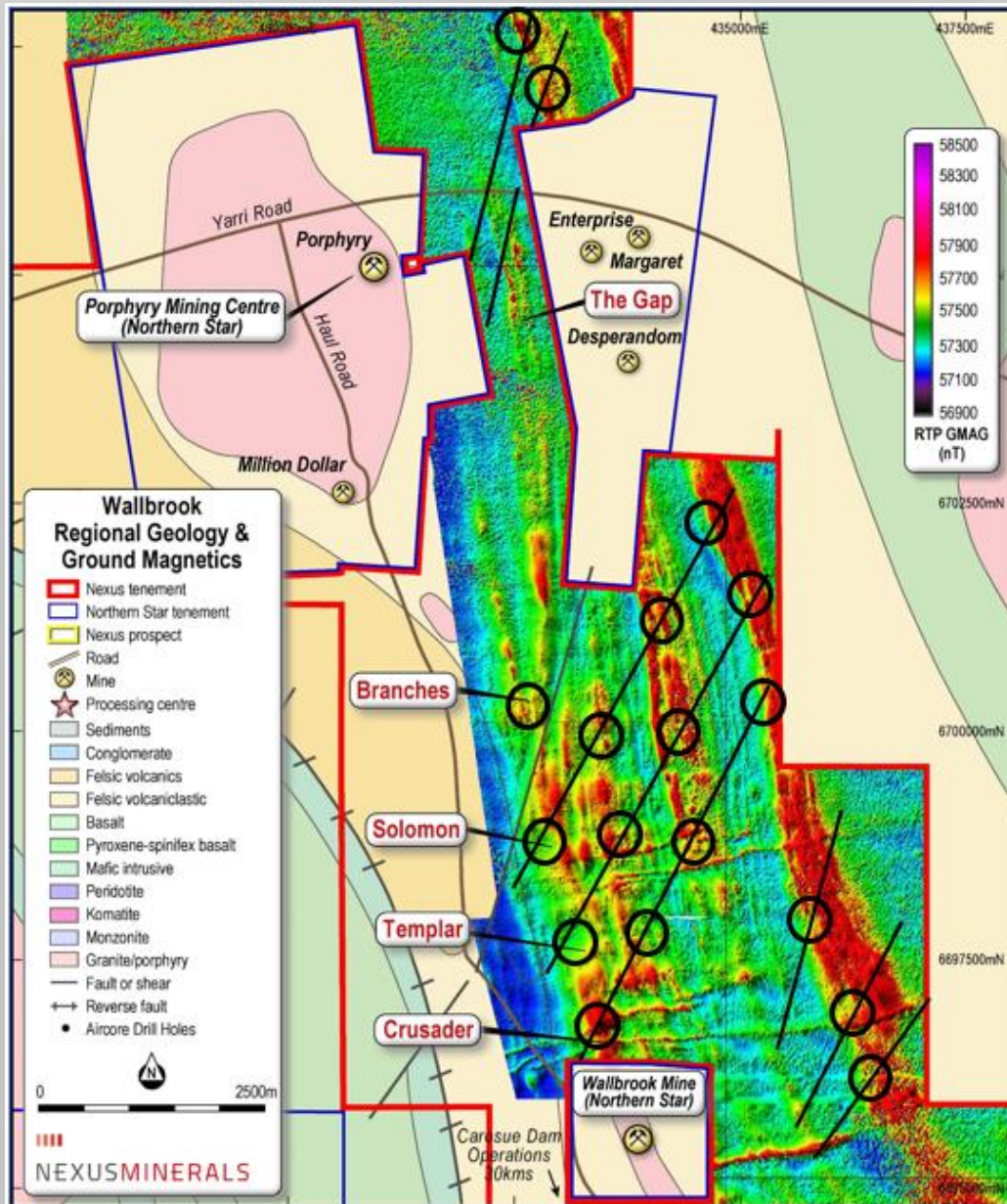


Hole DDH#3 4.61m @ 5.78g/t Au from 123m  
(Within 18.38m @ 2.40g/t Au)



Holes DDH#5 and DDH#6 Multiple Zones of  
Alteration / Silicification / Stockwork Veining  
Assay Results Pending





## Regional Exploration

- Regional Gravity Survey has identified a Gravity Low Corridor
- Regional Ground Magnetic Survey coverage is successfully identifying
  - Magnetic Highs
  - Magnetic Lows (within Magnetic highs)
  - Northeast structures

### Mineralisation is associated with:

- ✓ Gravity Low Corridor
- ✓ Magnetic Low (within Magnetic High)
- ✓ Northeast Structures

### Exploration Underway

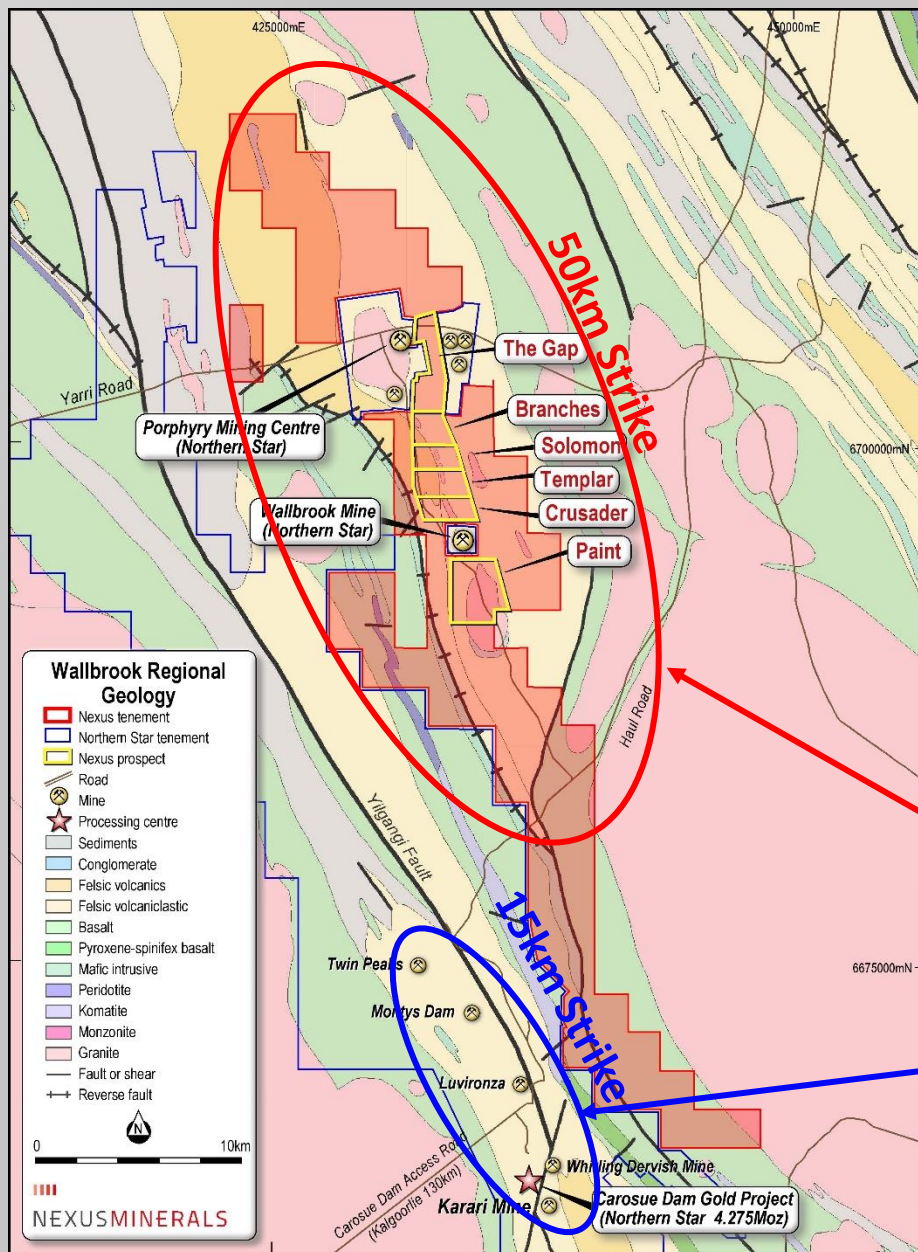
Gravity Survey – over eastern mag corridors

Solomon – ~4,000m RC drill program commenced - No previous drilling

Branches – ~4,000m RC drill program to follow up previous shallow Nexus drilling incl:

- 8m @ 7.59g/t Au (Within 25m @ 2.86g/t Au)
- 3m @ 4.96g/t Au (Within 20m @ 1.00g/t Au)





## Planned Exploration Activities

- Historic data compilation across 250km<sup>2</sup> tenure
- Exploration strategy development
- Geological - Alteration - Structural mapping
- Modelling of geophysical datasets
- Ground geophysical surveys – Gravity & Magnetics
- Aircore / RC / Diamond drill programs

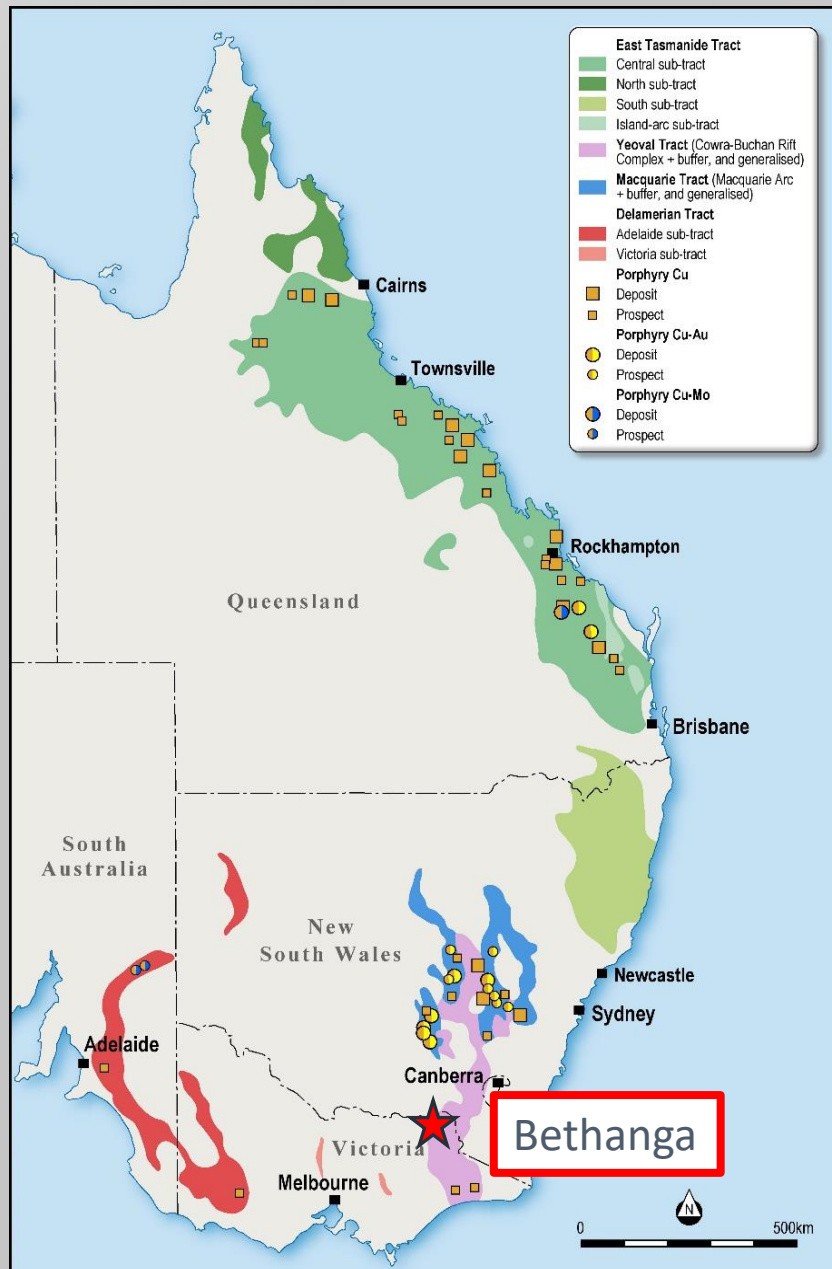
Numerous prospects identified to date for follow-up exploration and prospective drill targeting

Nexus Minerals “Corridor of Riches” ???

## “The Right Rocks”

Northern Star’s “Corridor of Riches”  
Mineral Resources >4 Moz Gold  
- and Growing

(Source: Northern Star website)



## Targeting = Large Scale Porphyry Cu-Au System

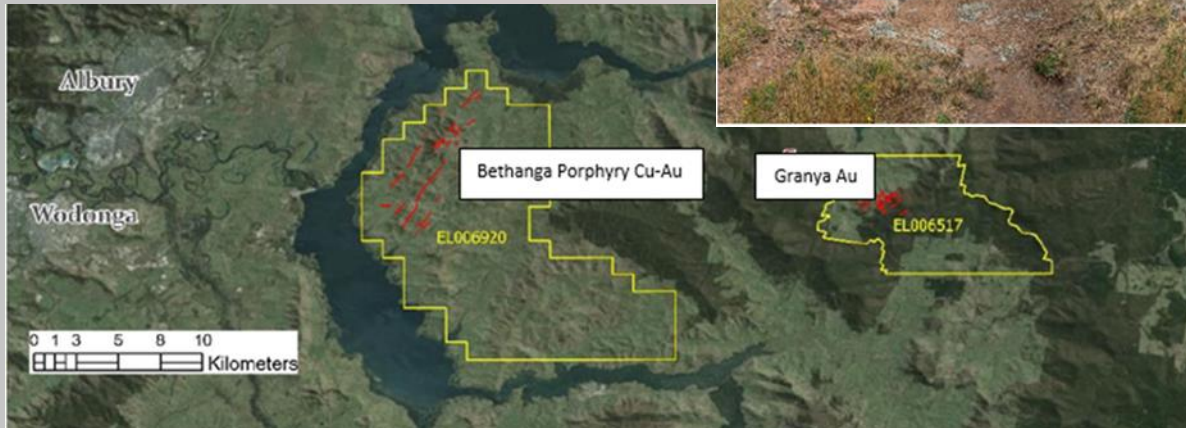
- Exploration Tenements cover 194km<sup>2</sup>
- Located in Australia's premier Porphyry Copper-Gold geological terrain
- Same geological host as the world class Cadia-Ridgeway and Northparkes Porphyry Copper-Gold projects further north in NSW
- The project area is recognized by Geological Survey of 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

## Porphyry Cu-Au Fertility Assessment Advanced

- Project owned 100% Nexus Minerals
- Prospect wide soil sampling program - Completed
- Geological mapping and litho-geochemical sampling - Completed
- Re-process and 3D inversion of regional aeromagnetic data – Completed
- Detailed soil sampling and ground magnetic survey – Commenced





# NEXUS 2022 EXPLORATION PROGRAM

		Jan-22	Feb-22	Mar-22	Apr-22	May-22	Jun-22
Wallbrook	Crusader						
				DDH#5 & DDH#6 Results			
				20,000m RC Drilling			
		3,000m Diamond Drilling			Diamond Drilling Results		
		RC Drilling 15,000m		RC Results 15,000m			
	Templar						
		RC Drilling 15,000m		RC Results 15,000m			
				20,000m RC Drilling			
		3,000m Diamond Drilling			Diamond Drilling Results		
	Regional						
				Solomon 4,000m RC		Solomon RC Results	
					Branches 4,000m RC		Branches RC Results
Bethanga	Porphyry Cu-Au Fertility Assessment						
	Re-process Regional Aeromagnetic Data				Detailed Soil Survey		
					Ground Magnetic Survey		

# SUMMARY

## Western Australia

- ✓ Highly prospective and strategic landholding
- ✓ Significant Crusader-Templar discovery in 2021
- ✓ Active gold explorer in multi million ounce Au region – largely underexplored landholding
- ✓ Systematic exploration of projects – utilising multiple disciplinary techniques

## Victoria

- ✓ New project Bethanga Porphyry Cu-Au
- ✓ Bethanga Cu-Au fertility assessment advanced
- ❖ Quality Projects - **“The Right Rocks”**
- ❖ Professional & experienced management team
- ❖ Well Funded \$22m million Cash on Hand

## Contact:

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Thank You

# SUMMARY

## Appendix 1 JORC Tables

### Crusader Combined JORC 2012 Mineral Resource Estimate

	Indicated			Inferred			Total			Cut Off Grade g/tAu
	Tonnes (t)	Grade (g/t Au)	Ounce (oz)	Tonnes (t)	Grade (g/t Au)	Ounce (oz)	Tonnes (t)	Grade (g/t Au)	Ounce (oz)	
Crusader Open Pit	1,222,000	1.18	46,000	908,000	1.19	35,000	2,130,000	1.18	81,000	0.5
Crusader UG	-	-	-	37,000	3.38	4,000	37,000	3.38	4,000	2
Crusader Total	-	-	-	-	-	-	2,167,000	1.22	85,000	

### Northern Star Ltd CDO Combined JORC 2012 Mineral Resource Estimate

MINERAL RESOURCES AS AT 31 MARCH 2021												
	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												
<b>CAROSUE DAM GOLD PROJECT</b>												
Surface	3,123	1.5	149	24,270	1.6	1,278	9,670	1.4	429	37,062	1.6	1,856
Underground	6,522	2.9	602	13,968	2.6	1,184	6,583	2.9	546	27,074	2.8	2,332
Stockpiles	3,212	2.0	81	-	-	-	-	-	-	3,212	2.0	81
Gold in Circuit	-	-	7	-	-	-	-	-	-	-	-	7
Sub-Total Carosue Dam	12,857	2.0	838	38,238	2.0	2,463	16,253	2.0	975	67,348	2.0	4,275

Source: Northern Star website ([www.nsrltd.com](http://www.nsrltd.com)) Northern Star Ltd Annual Report 2021 Mineral Resources as at 31 March 2021