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- 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.
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NEXUSMINERALS

COMPANY PROJECTS

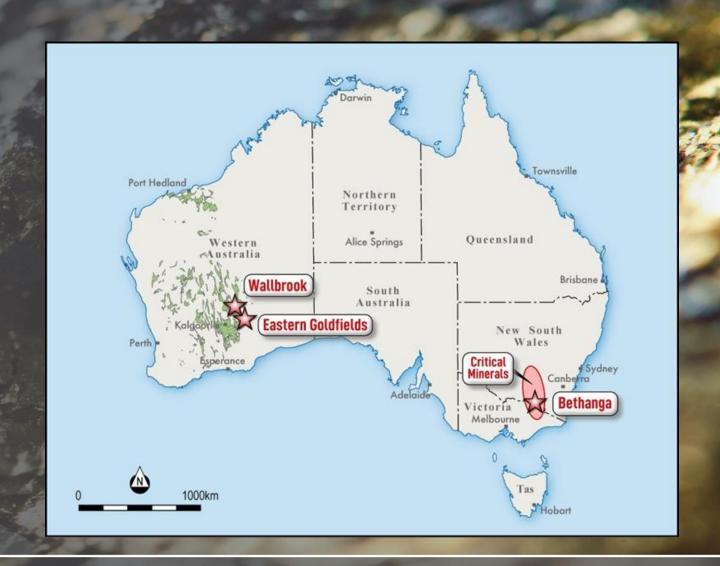
TARGETING:

WESTERN AUSTRALIA

Large scale gold deposits in WA's Eastern Goldfields

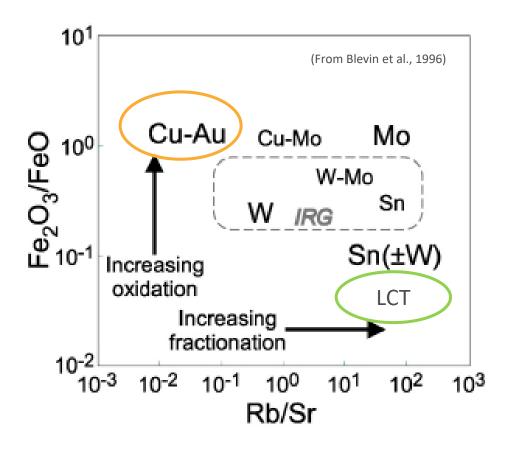
VICTORIA & NEW SOUTH WALES

Large Porphyry Copper-Gold, Precious Metals and Critical Minerals - Lithium, Caesium, Tantalum & Tin



NEXUSMINERALS 3

MAGMATIC HYDROTHERMAL SYSTEMS

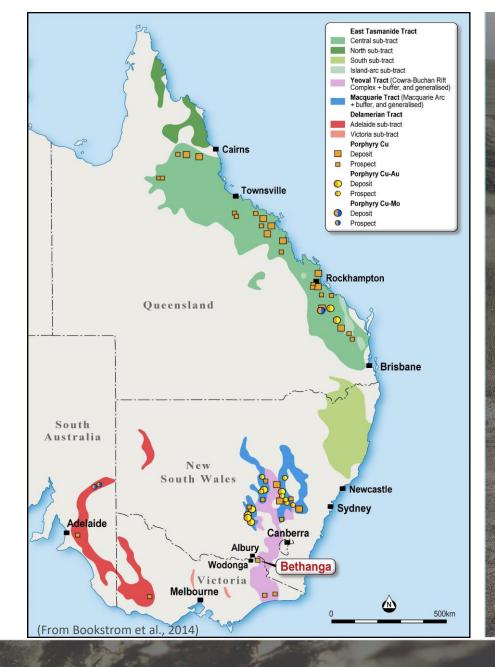


Magmas associated with porphyry Cu-Au systems are typically:

- Oxidised to strongly oxidised (magnetite series)
- Poorly evolved, primitive melts (K/Rb ratio >250)
- Poorly fractionated (Rb/Sr ratio <1)
- Typically, hydrous with Sr/Y ratios >40 (hornblende-bearing)
- I-type metaluminous (Al<(Ca+Na+K))

Magmas associated with Sn +/- W and LCT pegmatites are typically:

- Strongly reduced
- Highly fractionated (Rb/Sr >10)
- Strongly evolved (K/Rb ratio <100)
- Peraluminous, generally S-type (Al>(Ca+Na+K))



COMPANY PROJECTS BETHANGA PORPHYRY Cu-Au PROJECT

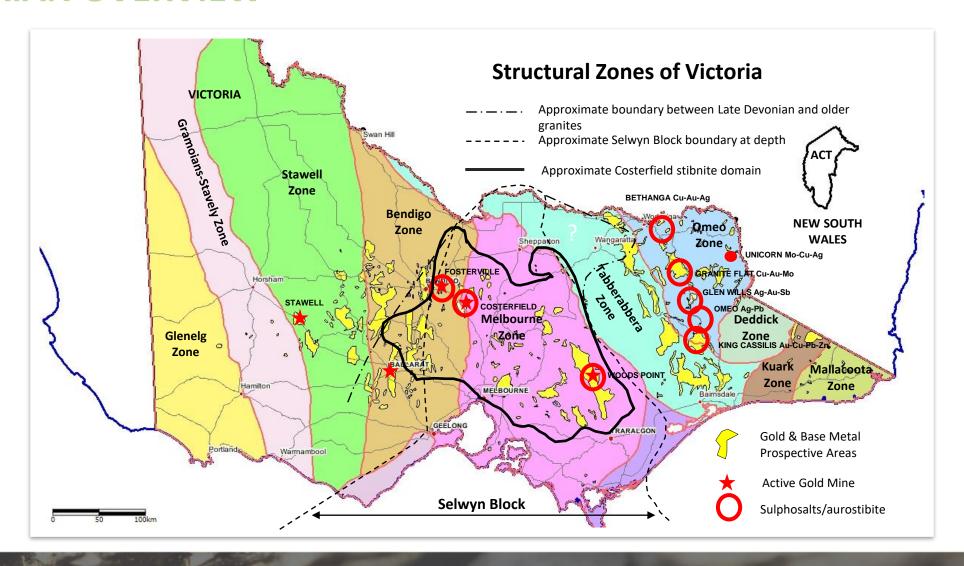
TARGETING = LARGE SCALE PORPHYRY Cu-Au SYSTEM

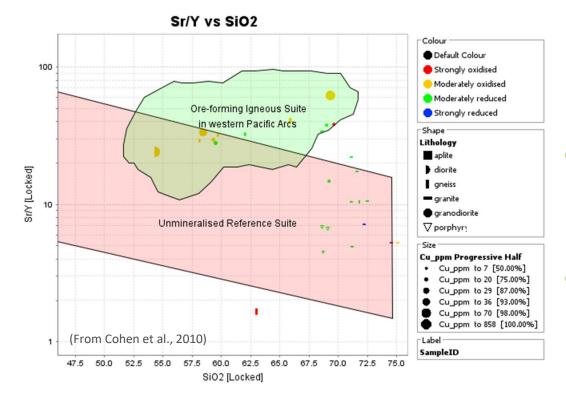
- Exploration Tenements cover 130km²
- Located in Australia's premier Porphyry Copper-Gold geological terrain
- Same Paleozoic rock package as the world class Cadia-Ridgeway and Northparkes Porphyry Copper-Gold projects further north in NSW
- The project area is recognised by Geological Survey of Victoria 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

VICTORIAN OVERVIEW

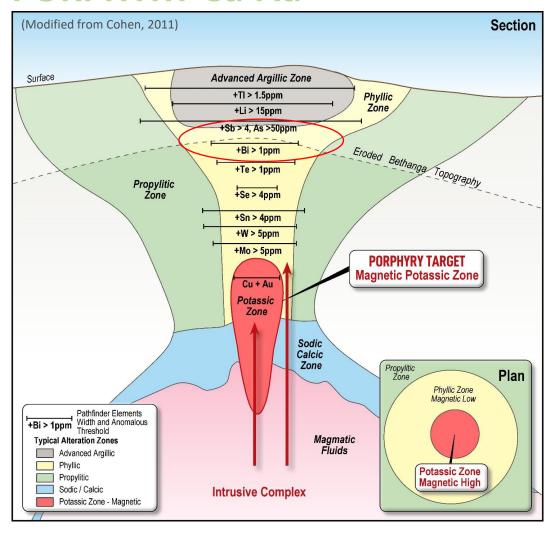




FERTILITY STUDY POSITIVE RESULTS

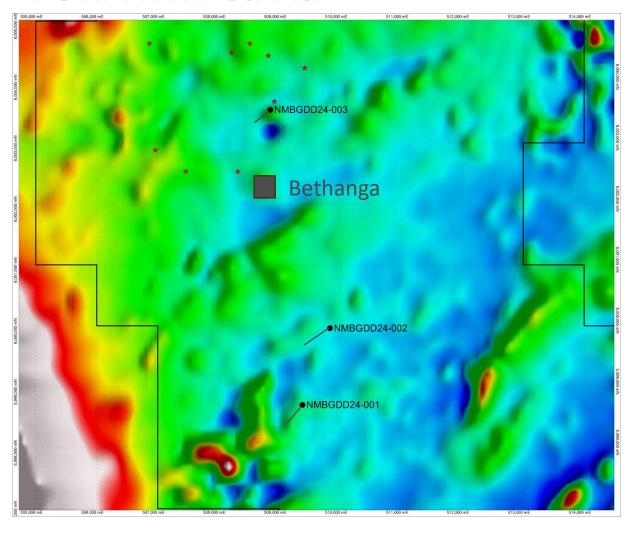
Geochemistry

- Rock samples of hornblende-bearing granodiorite to diorite compositions plot in the prospective field for western Pacific porphyry Cu systems and are moderately oxidised
- Lithogeochemistry indicates the intrusive rocks are consistent with emplacement into a porphyry tectonic environment (i.e. volcanic arc)
- The lithogeochemical elemental association is consistent with magmatic—hydrothermal fluids originating from a porphyry Cu system



EXPLORATION MODEL

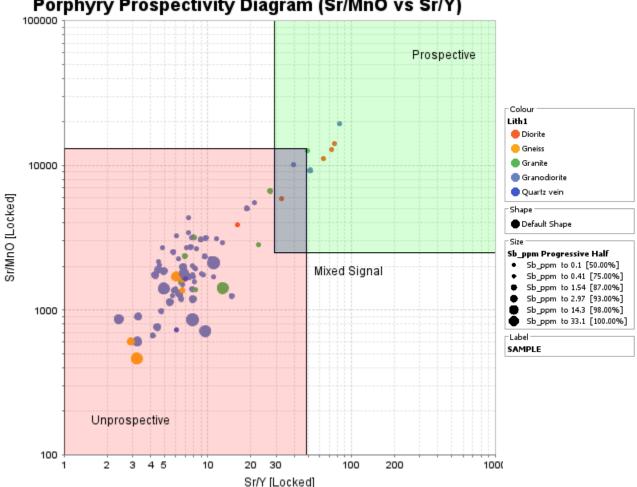
- Inner magnetic potassic core containing alteration minerals magnetite, biotite and Kfeldspar.
- Intermediate non-magnetic phyllic zone containing quartz, sericite/white mica (illite/muscovite) and pyrite.
- Outer propylitic zone containing chlorite, epidote and carbonate (the "green" rocks).
- Surface rock chip data from Bethanga show localised highly anomalous Sb & As and weakly anomalous Bi to define an approximate position through an idealised cross section



2024 DIAMOND DRILLING

- 1,516 m of diamond drilling in three holes to test magnetic and geochemical targets in the multi-element porphyry target zone and beneath the Welcome Lode
- 84 samples collected for assay and 4-acid lithogeochemical analyses plus hyperspectral analysis (aiSIRIS interp)
- Drilling completed in 1st half of 2024
- Chlorite alteration of biotite is widespread and pervasive





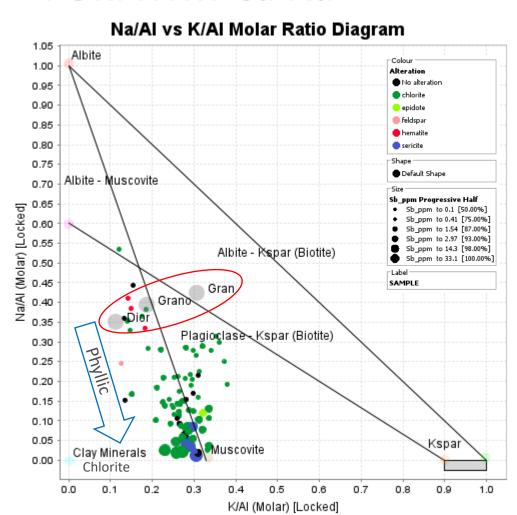
PORPHYRY FERTILITY CONFIRMED

- Magnetic, hornblende-bearing diorite and some granodiorite samples plot in the prospective field of Ahmed et al. (2019)
- Some diorite and granodiorite samples also show adakite affinities with Sr/Y ratios >40
- Most granodiorite, granite and gneiss samples are unprospective but are weakly mineralized and hydrothermally altered



DIORITE INTRUSIVE ROCKS

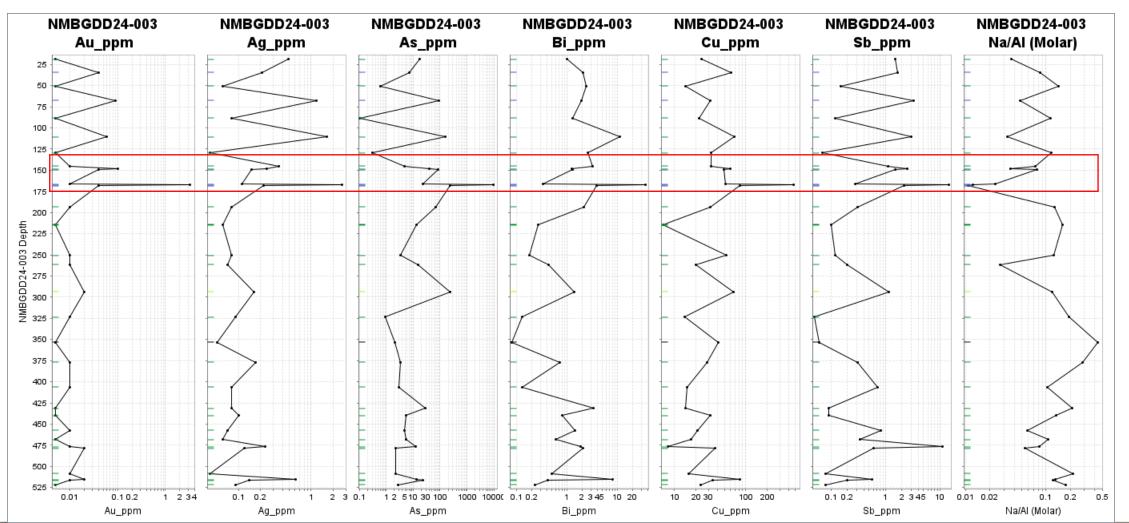
- Medium to fine grained, hornblendebearing diorite; hornblende altered to chlorite
- Magnetic susceptibility between 3.32 and 24.9 SI x 10⁻³; may explain local magnetic highs south of Bethanga
- Locally affected by hematite alteration; hyperspectral alteration assemblage is muscovite-chlorite-carbonate



HYDROTHERMAL ALTERATION

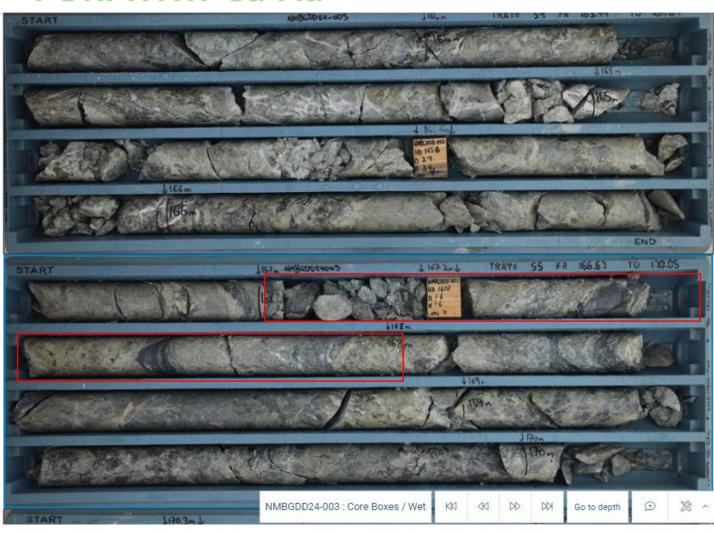
- Geochemical data from most samples indicate feldspar-destructive phyllic alteration associated with the highest Sb values (up to 33 ppm)
- Logged alteration varies from chloritic to sericitic
- Hyperspectral aiSIRIS interpretations indicate:
 - Chlorite is intermediate MgFe composition
 - White mica is moderate to well crystallised illite
- Au-Ag-As-Bi-Cu-Sb geochemical association
- Unaltered compositions range from diorite to granite; diorites are unmineralized

NMBGDD24-003 DOWN-HOLE PLOT



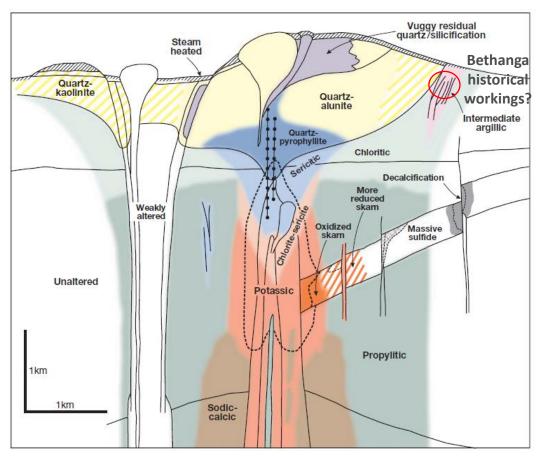


NMBGDD24-003 163.5 TO 170.1 M



- Sample NMBG069 (167 168 m)
 - 3.23 ppm Au
 - 2.66 ppm Ag
 - 9840 ppm As
 - 36.3 ppm Bi
 - 474 ppm Cu
 - 0.87 ppm Mo
 - 46.4 ppm Pb
 - 14.75 ppm Sb
 - 103 ppm Zn
- Pyrite, illite, kaolinite (?), ferroan carbonate altered breccia

BETHANGA Cu-Au



(From Sillitoe, 2010)

CONCLUSIONS

- Lithogeochemical data from post-Bethanga
 Gneiss granodiorite to diorite intrusions are
 consistent with a fertile porphyry Cu magmatic
 hydrothermal system
- Enrichments of As, Sb and Bi in surface rocks samples suggest shallow exposure of the system
- Recent drilling has confirmed fertility and defined a dominant chlorite-illite alteration assemblage associated with thin quartz-calcite conjugate veins (D-veins?) and breccias locally anomalous in Au-Ag-As-Bi-Cu-Sb

SUMMARY

VICTORIA AND NSW CRITICAL MINERALS

- **Bethanga Porphyry Cu-Au project**
 - > Diamond drill program completed project review underway
- NSW & Victoria Critical Minerals project ~15,000km² granted tenure
 - > Processing of regional geophysical datasets
 - > Ground reconnaissance mapping and sampling commenced



- 'The Right Rocks'
- Professional and Experienced Management Team
- Well Funded with

\$5.5 Million Cash on Hand as of 23/05/2024

THANK YOU

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