**Sydney Mining Club - Leading Edge** 

# DRILLING FOR A TIER 1 GOLD-COPPER DISCOVERY

Advanced project portfolio - drill ready targets along strike from two of Australia's largest gold - copper mines

4 March 2021





## **Investment Highlights**





#### EAST LACHLAN – WORLD CLASS GOLD-COPPER PROVINCE

#### Two of Australia's largest gold-copper mines

- Cadia Valley District Au-Cu Porphyry Cluster / Cadia East Mine (Newcrest)
- Northparkes District Cu-Au Porphyry Cluster / E48 / E26 Mines (CMOC/Sumitomo)
- **Cowal Gold Mine / Corridor** Epithermal Au + Porphyry Cluster (Evolution)
- Tomingley Gold Mine / Corridor Orogenic Au (Alkane)



## DRILLING ALONG STRIKE FROM NORTHPARKES COPPER-GOLD MINING DISTRICT

## **Compelling Northparkes Cu-Au lookalike at Myall Project**

- Orilling downdip from significant existing intercepts, akin to Northparkes Mine Resource grade+,
  - 70m @ 0.54% Cu, 0.15g/t Au from 141m and 62m @ 0.27% Cu, 0.13g/t Au from 260m (Kingswood)
- Awaiting assays from recently completed drilling at Kingswood and SLR targets
- Multiple targets point to typical porphyry cluster setting



# DRILLING ALONG STRIKE FROM AUSTRALIA'S LARGEST GOLD PRODUCER – CADIA EAST

Drill testing multiple high priority Au-Cu targets at Wellington North Project

- Priority drill ready target identified at Rose Hill, inc. 71m @ 0.30g/t Au, 0.42% Cu, 57ppm Mo from surface
  - Equivalent intercept grades to Cadia East mine resource#
- High impact AC/RC drill program commenced at Boda South, Rockleigh, Rose Hill and Lady Ilse targets
- Wellington North Project essentially surrounds Alkane's ASX:ALK Boda Au-Cu discovery
  - Lady Ilse widespread gold anomalism identified typical of early stage Boda style Au-Cu discovery



## OROGENIC GOLD TARGETS ALONG STRIKE FROM TOMINGLEY GOLD MINE AND RECENT DISCOVERIES

Two priority orogenic gold targets within Parkes Fault Zone

- Stockmans and MacGregors near surface orogenic gold targets, 20km south from Alkane's ASX:ALK TGP, Roswell, San Antonio, El Paso discoveries
- ✓ Parkes Project exploration program planned for 2<sup>nd</sup> quarter



### **AUSTRALIAN GOLD AND COPPER LIMITED ASX:AGC**

MAG major shareholder in high value drill ready central Lachlan portfolio

- High value ranked drill ready exploration targets, Cobar-style gold-polymetallic, Fosterville-style orogenic gold
- Obemerger of Moorefield with high-quality drill ready acquisitions
- V Listed on ASX 20 January 2021

<sup>\*</sup> Total metal endowment (Phillips 2017) # Cadia East - 2900Mt @ 0.35g/t Au, 0.26% Cu, 64ppm Mo (Total Resource, Newcrest 2020)

<sup>+</sup> Northparkes 605Mt @ 0.55% Cu and 0.19g/t Au (Total Resources, CMOC 2018)

## **Corporate Snapshot**



CAPITAL STRUCTURE <sup>1</sup>	
Shares on issue <sup>1</sup>	217,085,887
Share price 1 March 2021	\$0.145
Market Capitalisation <sup>1</sup>	\$31.48m
Cash <sup>1,2</sup>	\$6.9m
Options on Issue – unlisted  Exercise price \$0.0722 to \$0.5772 expiry Oct 2022 to Feb 2023	49,500,000
Options on Issue – listed MAGOA Exercise price \$0.0722, expiry 30 August 2021	24,231,789



# Executive Chairman Managing Director Peter Duerden Non-Executive Director David Berrie Company Secretary Andrea Betti

Steven Oxenburgh

**BOARD OF DIRECTORS AND SENIOR MANAGEMENT** 

## MAGMATIC SHAREHOLDING BLOCKS\*

Directors 28.27%<sup>1</sup>

Gold Fields 8.84%<sup>1</sup> HNW/Family offices/Retail +24%1

**Exploration Manager** 

<sup>&</sup>lt;sup>1</sup> assumes completion of capital raising – refer to ASX MAG 3 March 2021

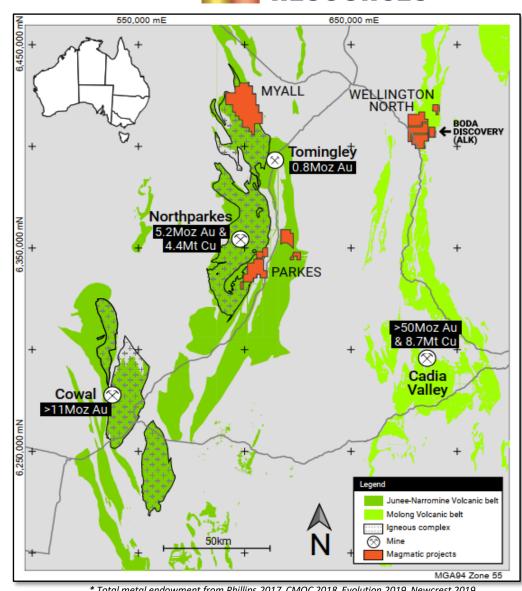
<sup>&</sup>lt;sup>2</sup> Cash at Bank at 26 Feb 2021

## **East Lachlan - A World Class Gold-Copper Province**

Home to Australia's largest gold producer



- World class gold-copper terrain, range of mineralisation styles
- >80Moz Gold (Au) and >13Mt Copper (Cu) regional endowment
- **Major gold-copper mines:** 
  - > Cadia East Gold-Copper Mine (Newcrest):
    - World's largest alkalic gold/copper porphyry complex
    - Australia's top gold producer (Newcrest 2020)
  - Northparkes Copper-Gold Mine (China Moly/Sumitomo)
  - Cowal Gold Mine (Evolution)
  - > Tomingley Gold Mine (Alkane)
- **Major discoveries:** 
  - ➤ McPhillamys Advanced Gold Development (2.3Moz, ASX:RRL)
  - > Tomingley Discoveries Roswell (662koz, ALK ASX 4 November 2020, San Antonio (406koz, ALK ASX 16 February 2021)

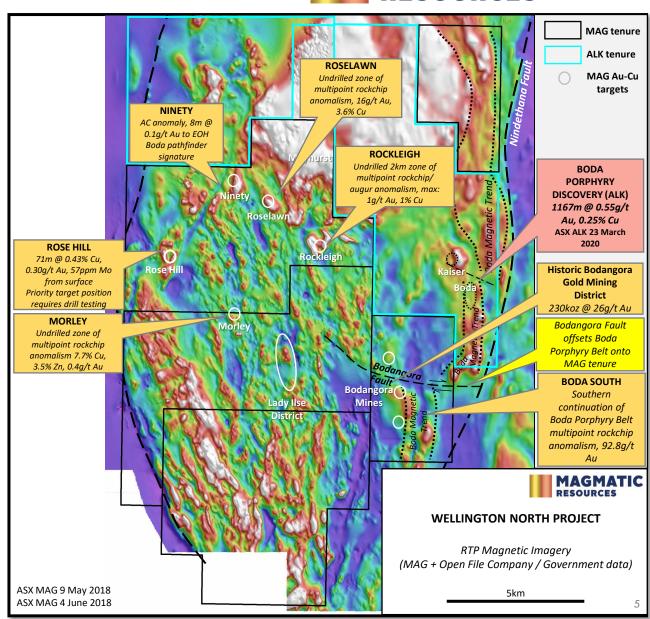


<sup>\*</sup> Total metal endowment from Phillips 2017, CMOC 2018, Evolution 2019, Newcrest 2019

Advanced target portfolio surrounding major East Lachlan porphyry discovery

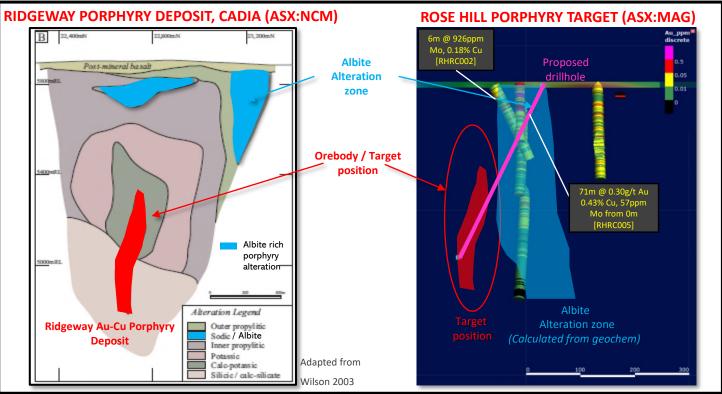


- Along strike from Australia's largest gold producer Cadia East ASX:NCM
- Dominant position surrounding Boda discovery (ASX:ALK) Boda indicates surface expression - gold-rich porphyry ± epithermal signature (ASX ALK 15 August 2017)
- Multiple advanced gold-copper targets:
  - ✓ Rose Hill Au-Cu porphyry, interpreted priority target position remains to be tested inc. 71m @ 0.43% Cu, 0.30g/t Au, 57ppm Mo from surface (ASX MAG 17 May 2017)
  - ✓ Boda South Au-Cu porphyry, along strike extensions of Boda Porphyry Belt, 230koz
     @ 26g/t Au, multipoint rockchip anomalism, inc. 92.8g/t Au (ASX MAG 17 May 2017, 9 May 2018)
  - ✓ Lady Ilse widespread Au-Cu porphyry anomalism, under shallow (5-15m) cover
  - ✓ Rockleigh open multipoint gold anomalism defined in augur, rockchips
  - ✓ Morley Undrilled zone of multipoint rockchip anomalism 7.7% Cu, 3.5% Zn, 0.4g/t
     Au (ASX MAG 4 June 2018)
  - ✓ Ninety, Mayhurst East and multiple other ranked gold copper porphyry targets

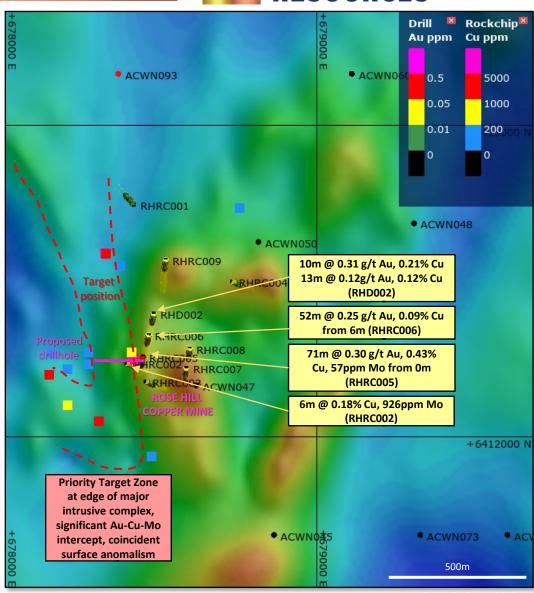


Drilling the priority target position at Rose Hill

- Along strike from Australia's largest gold producer Cadia East 2900Mt @ 0.35g/t Au, 0.26% Cu, 64ppm Mo (Total Resource, Newcrest 2020)
  - ✓ PRIORITY TARGET POSITION REMAINS UNTESTED western margin of strongly magnetic monzonite intrusive complex
  - ✓ EXISTING SIGNIFICANT MINERALISATION 71m @ 0.30g/t Au, 0.42% Cu, 57ppm Mo from 0m (RHRC005)\*
  - ✓ STRONG ALBITE PORPHYRY ALTERATION sodic alteration, typically present in upper levels/shoulders of East Lachlan gold-copper porphyry systems
  - ✓ COINCIDENT SURFACE ANOMALISM multipoint rockchips > 0.1% Cu, AC Au anomalism







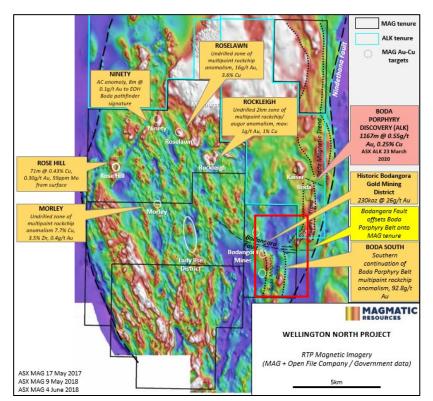
\* ASX MAG 17 May 2017

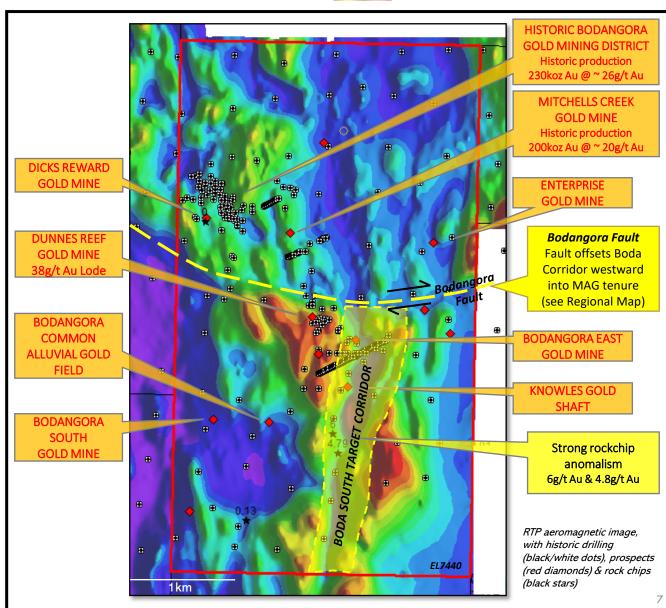
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Imminent drilling along strike from Boda Discovery

MAGMATIC RESOURCES

- ~3km strike extension of prospective Boda Corridor (Boda South)
- Bodangora Fault displaces Boda Corridor westward onto MAG tenure
- Numerous historic gold mines/workings + strongly anomalous rockchips (6g/t, 4.8g/t Au) coincident with target area (ASX MAG 4 June 2017)
- Multipoint rockchip anomalism, inc. 92.8g/t Au at Bodangora (ASX MAG 9
   May 2018). Historical mining 230koz Au @ 26g/t (ASX MAG 4 June 2017)



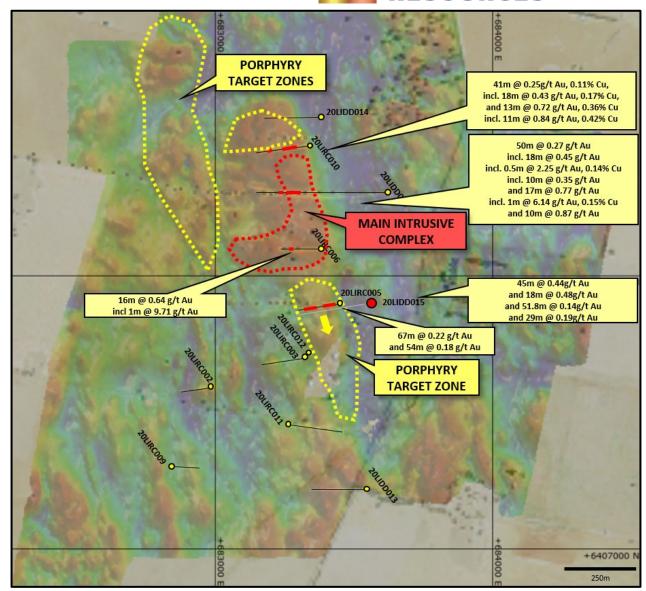


Defining large gold-copper system at Lady Ilse

MAGMATIC RESOURCES

- Identifying Boda-style Porphyry Epithermal alteration exploration signature (ref. ASX ALK 15 August 2017)
- <u>Lady Ilse target:</u> pyrite-rich alteration zone assess fertility of pyrite zone
   (RC drilling + porphyry pathfinder anomalism)

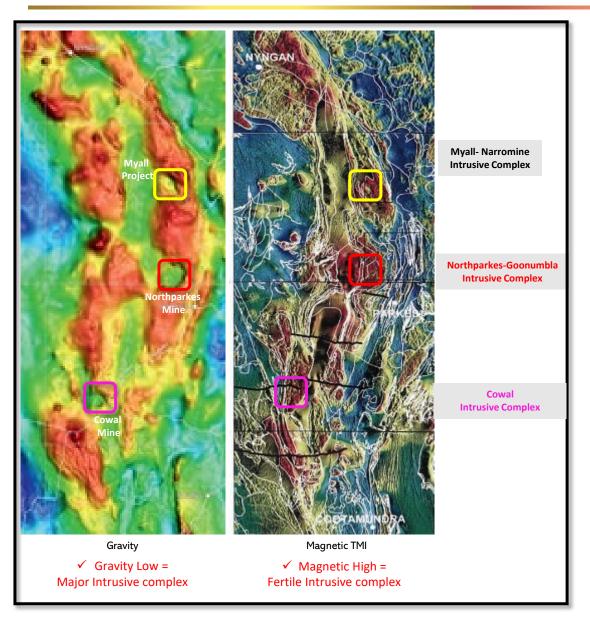
20LIDD001	50m @ 0.27g/t Au, 0.04% Cu from 691m	
incl.	18m @ 0.45g/t Au, 0.08% Cu from 691m	
and	10m @ 0.87g/t Au, 0.06% Cu from 593m	
and	17m @ 0.77g/t Au, 0.04% Cu from 803m	
incl.	1m @ 6.14g/t Au, 0.15% Cu from 819m	
and	4m @ 1.11g/t Au from 948m	
20LIRC010	13m @ 0.72g/t Au, 0.36% Cu from 184m	
and	41m @ 0.25g/t Au, 0.11% Cu from 103m	
20LIRC005	IRC005 67m @ 0.22g/t Au from 170m	
and	54m @ 0.18g/t Au from 23m	
and	d 23m @ 0.27g/t Au from 249m	
20LIRC006	16m @ 0.64g/t Au from 166m	
incl.	1m @ 9.71g/t Au from 171m	
20LIDD015	45m @ 0.44g/t Au from 452m	
and	18m @ 0.48g/t Au from 357m	
and	51.8m @ 0.14g/t Au from 295.2m	



## **Myall Copper-Gold Project**

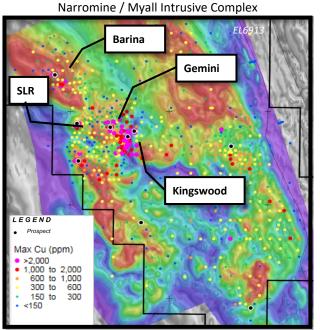
Northparkes copper-gold porphyry district lookalike





#### NORTHPARKES COPPER-GOLD PORPHYRY DISTRICT LOOKALIKE

- 250km<sup>2</sup> project with multiple advanced targets
- Awaiting assays from recent drilling at Kingswood and SLR targets
- Myall-Narromine Intrusive complex, similar age, composition and dimensions to Northparkes Intrusive Complex, ~50km north of Northparkes Cu-Au mine
- Myall District has Northparkes gravity magnetic signature significant Cu-Au mineralisation
  - 70m @ 0.54% Cu, 0.15g/t Au from 141m and 62m @ 0.27% Cu, 0.13g/t Au from 260m



Goonumbla / Northparkes Intrusive Complex (JNVB)

Bouguer RTP Mag Gravity

5 km

RTP Mag Bouquer

Gravity

5 km

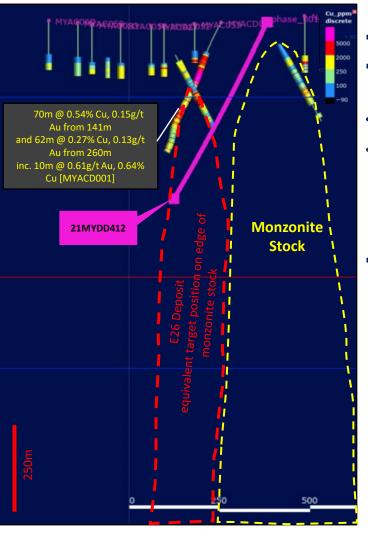
## **Myall Copper-Gold Project**

High impact drilling into Northparkes E26 Porphyry lookalike target



#### **NORTHPARKES / E26 PORPHYRY DEPOSIT** Ordovician Volcanics E26Lift1 RL 10100 0.5% Cu 10080RL Gypsum Line outline RL 9900 Biotite 9950RL quartz **Early** monzonite Monzonite Stock Quartz 9800RL monzonite RL 9300 perphyry complex LEGEND RL 9100 Sulphide Cu-Au ore **Equivalent Copper Grade** 9600RL 0.6 - 0.80.8 - 1.2 E26N, E/W section 1.2 - 2.5 53 050N E 11000 E26Lift2 Lye 2006 Cooke et al 2012 Deposit at edge of Deposit at edge of Monzonite stock **Monzonite stock**

#### KINGSWOOD PORPHYRY TARGET (MAG)



Target at edge of Monzonite stock

## RECOGNISING THE TOP OF A NORTHPARKES PORPHYRY TARGET

- Kingswood target = E26 lookalike
- Porphyry mineralisation at margin of early monzonite stock
- 70m @ 0.54% Cu, 0.15g/t Au from 141m
- and 62m @ 0.27% Cu, 0.13g/t Au from 260m
  - inc. 10m @ 0.61g/t Au, 0.64% Cu [MYACD001]
  - (ASX MAG 4 June 2017)
- Northparkes 605Mt @ 0.55% Cu and 0.19g/t Au (Total Resources, CMOC 2018)

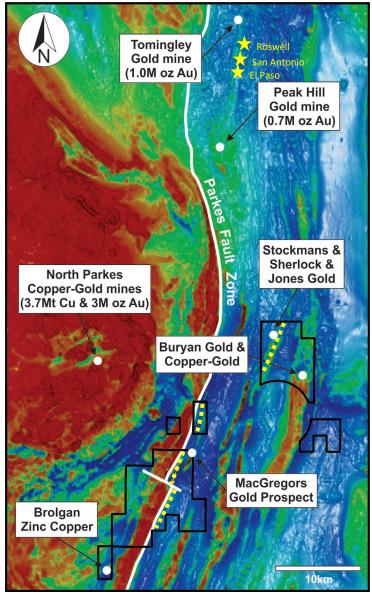


## **Parkes Gold Project**

Tomingley South discoveries highlight underexplored orogenic gold district

- Magmatic holds strategic position in emerging orogenic gold discovery hotspot, Parkes Fault Zone
- Along strike from Tomingley Gold Operations / Tomingley South Discoveries (ASX:ALK)
  - Roswell 662koz, (ALK ASX 4 November 2020)
  - San Antonio 453koz, (ALK ASX 20 April 2020)
- MacGregors-Secrets, Stockmans targets gold intersections equivalent to early-stage exploration results at Tomingley
  - > ~20km Orogenic Gold Trend
- MacGregors/MacGregors South:
  - > 19m at 0.8 g/t Au, incl. 10m at 1.25 g/t Au (from 146m) (MAG Prospectus ASX: 17/5/2017)
  - 30m at 0.57 g/t Au, incl. 15m at 0.74 g/t Au (from 108m) (MAG Prospectus ASX: 17/5/2017)
- Stockmans:
  - 22m at 0.79g/t Au (from 45m in S1), incl. 14m at 1.01 g/t Au (from 47m) (MAG Prospectus ASX: 17/5/2017)
  - > 12m at 1.42g/t Au (from 7m in S2), incl. 6m at 2.44g/t Au (from 9m) (MAG Prospectus ASX: 17/5/2017)





## Central Lachlan demerger and Au-Cu-Zn-Pb acquisitions

High Value – Focussed – Drill Ready Portfolio



- Australian Gold and Copper Limited
- ASX:AGC listed 20 January 2021
- Central Lachlan gold polymetallic focus
- MAG Moorefield Project demerger
- Gundagai / Cargelligo Project Acquisitions
- In specie share distribution to shareholders with MAG remaining as major shareholder
- Currently drilling Achilles 3 Au-Cu-Zn-Pb target in southern Cobar Basin

'Drilling intersected zones of strong alteration and base-metal sulphides above a large EM conductor' ASX AGC 3 March 2021

## **Cargelligo Project**

Strong discovery potential, Achilles 3, drilling underway

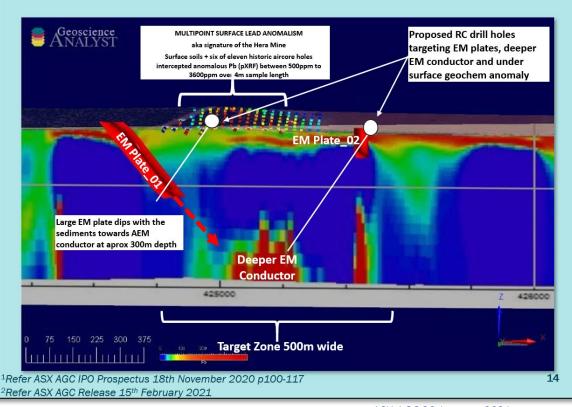
# AGC\*

#### **ACHILLES 3 TARGET**

- Cobar-style gold-polymetallic targets<sup>1</sup>
- Multi-datasets all point to shallow mineralised body with evidence for deeper continuation
- Coincident EM plate, aircore and soil geochem, & 2019 government flown aerial EM conductor = great drill targets
- Hera Mine was discovered by lead geochem and then drilling an EM plate
- Maiden drilling underway<sup>2</sup>



Ground truthing near EM plate\_01 supports evidence that sandstones/siltstones are strongly sheared, altered and east dipping, coincident with the geometry of EM plate\_01



ASX AGC 20 January 2021 ASX AGC 3 March 2021 https://www.austgoldcopper.com.au/

## **MAG Investment Proposition**

High impact drilling focused along strike from Australia's largest gold producer



#### **GOLD-COPPER**

- High impact drilling in Boda District along strike from Australia's largest gold producer - Cadia East Mine, Newcrest 2020
- Drilling Rose Hill, Boda South, Rockleigh

#### **COPPER-GOLD**

Drilling results pending from Kingswood, SLR (Myall)

#### **OROGENIC GOLD**

Drilling planned along strike from ALK Tomingley South discoveries (Parkes)



		EXPLORATION ACTIVITY						
	MAJOR WORK PROGRAMS	JAN	FEB	MAR	APR	MAY	JUNE	
WELLINGTON NORTH	Core drilling (Rose Hill)							
	AC/RC Drilling (Boda South)							
	AC/RC Drilling (Rockleigh)							
	AC/RC Drilling (Rose Hill)							
	AC/RC Drilling (Lady Ilse)							
	AC\RC Drilling (Well)							
MYALL	Drilling (Kingswood)							
	Drilling (SLR)							
PARKES	AC\RC Drilling (Parkes)							
	AC\RC Drilling (Parkes)							

Estimates of times and figures are indicative only and are subject to change

## References



CMOC 2018., China Molybdenum Company Limited, 2018 Annual Report, http://www.cmocinternational.com/

Cayley, R., 2017, Mineral Systems Analysis in the Tasmanides – Looking North from the South through 'Lachlan Orocline' coloured glasses, AIG Bulletin 67

Cooke, D., Wilson, Masterman, Zukowski, Green, Holliday., 2012, Porphyry, epithermal and skarn deposits of the Macquarie Arc, NSW, Ore Deposit Models and Exploration Strategies, Course, University of Tasmania

Evolution., 2018, https://evolutionmining.com.au/reservesresources/

Fox, N., Cooke, D., Harris, A., Collett, D., Eastwood, G., 2015, Porphyry Au-Cu mineralisation controlled by reactivation of an arc-transverse volcanosedimentary subbasin, Geology, Geological Society of America

Harris, Percival, I., Cooke, D., Tosdal, R., Fox, N., Allen, C., Tedder, I., McMillan, C., Dunham, P., Collett, D., 2014, Marine Volcanosedimentary Basins Hosting Porphyry Au-Cu Deposits, Cadia Valley, New South Wales, Australia, Economic Geology, v. 109

Holliday, J.R., Cooke, D., 2007, Advances in Geological Models and Exploration Methods, Ore Deposits and Exploration Technology, Fifth International Conference on Mineral Exploration

Newcrest., 2010, Architectural controls on Palaeozoic porphyry Au-Cu mineralisation in the Cadia Valley, NSW, Mines and Wines Conference 2010

Newcrest., 2013, Geology and development of the Cadia East Au-Cu porphyry deposit, Australia, PDAC

Newcrest., 2019, Newcrest Investor and Analyst Presentation, ASX Announcement, 18 November 2019

Newcrest., 2020, Newcrest's Exploration Edge, AME Roundup, 20 January 2020

Newcrest., 2020, Cadia Operations NI 43-1010 Technical Report, 30 June 2020

Phillips, G N (Ed), 2017. Australian Ore Deposits (The Australasian Institute of Mining and Metallurgy: Melbourne) (Phillips 2017)<sup>1</sup>

Wilson, A.J., Cooke, D.R., Stein, H.J., Fanning, C.M., Holliday, J.R., and Tedder, I.J., 2007a, U-Pb and Re-Os geochronologic evidence for two alkalic porphyry ore-forming events in the Cadia district, New South Wales, Australia: Economic Geology, v. 102, p. 3–26.

#### **MAG ASX ANNOUNCEMENTS**

ASX MAG 11 May 2020 Aeromagnetic data highlights the potential of Boda North and Boda South

ASX MAG 12 May 2020 Operational Update

ASX MAG 1 June 2020 Boda North IP

ASX MAG 3 June 2020 Drilling Results

ASX MAG 18 June 2020 Drilling Commences

ASX MAG 22 June 2020 Operational Update

ASX MAG 17 July 2020 Drilling Commences at Boda North

ASX MAG 10 September 2020 Lady Ilse RC drilling results

ASX MAG 18 September 2020 Magmatic to demerge Moorefield Project and IPO with Central Lachlan Acquisitions

ASX MAG 19 October 2020 Drilling commences at Lady Ilse

ASX MAG 4 November 2020 Demerger of Moorefield Project and IPO Update

ASX MAG 7 December 2020 Copper Porphyry Drill Target

ASX MAG 24 December 2020 Exploration Update

ASX MAG 12 January 2021 Drilling Commences Copper Target

ASX MAG 10 February 2021 Drilling Completed Copper Myall

ASX MAG 11 February 2021 Rose Hill

ASX MAG 25 February 2021 Drilling commences at Wellington North

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The information in this document that relates to Exploration Results, Mineral Resources or Ore Reserves is based on information compiled by Mr Peter Duerden who is a Registered Professional Geoscientist (RPGeo) and member of the Australian Institute of Geoscientists. Mr Duerden is a full-time employee of, and has associated shareholdings in, Magmatic Resources Limited, and 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 2012 Edition of the "Australasian Code for Reporting of Exploration Results, Mineral Resources and Ore Reserves". Mr Duerden consents to the inclusion in this presentation of the matters based on his information in the form and context in which it appears.

Additionally, Mr Duerden confirms that the entity is not aware of any new information or data that materially affects the information contained in the ASX releases referred to in this report.

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