

# **POSITIONED FOR DISCOVERY Advanced Gold, Copper** and **Base Metals Portfolio in Australia's Leading Resources** Regions

magmaticresources.com

21 February 2019



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Forward-looking information is subject to known and unknown risks, uncertainties and other factors that may cause actual results to be materially different from those expressed or implied by such forward-looking information, including risks associated with investments in private and publicly listed companies such as the Company; risks associated with general economic conditions; the risk that further funding may be required but unavailable for the ongoing development of the Company's projects or future acquisitions; changes in government regulations, policies or legislation; unforeseen expenses; fluctuations in commodity prices; fluctuation in exchange rates; litigation risk; restrictions on the repatriation of earnings by the Company's subsidiaries; the inherent risks and dangers of mining exploration and operations in general; risk of continued negative operating cashflow; the possibility that required permits may not be obtained; environmental risks; uncertainty in the estimation of mineral resources and mineral reserves; general risks associated with the feasibility and development of each of the Company's projects; foreign investment risks in Australia; changes in laws or regulations; future actions by government; breach of any of the contracts through which the Company holds property rights; defects in or challenges to the Company's property interests; uninsured hazards; disruptions to the Company's supplies or service providers; reliance on key personnel and retention of key employees.

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Assumptions have been made regarding, among other things: the Company's ability to carry on its future exploration, development and production activities, the timely receipt of required approvals, the price of gold, copper and base metals, the ability of the Company to operate in a safe, efficient and effective manner and the ability of the Company to obtain financing as and when required and on reasonable terms. Readers are cautioned that the foregoing list is not exhaustive of all factors and assumptions which may have been used.

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#### COMPETENT PERSONS STATEMENT

The information in this document that relates to Exploration Results, Mineral Resources or Ore Reserves is based on information compiled by Mr Steven Oxenburgh who is a Member of the AusIMM (CP) and a Member of the Australian Institute of Geoscientists. Mr Oxenburgh is a full-time employee of 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 Oxenburgh consents to the inclusion in the report of the matters based on his information in the form and context in which it appears. Additionally, Mr Oxenburgh 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.

# Pre-discovery Opportunity in buoyant Gold and Copper commodity markets



Formed MAG in 2014 to purchase 4 advanced projects in the East Lachlan, NSW: from Gold Fields Limited (GF) worlds 7<sup>th</sup> largest gold miner; who spent \$13.5M on exploration and have retained a 15% shareholding in MAG.

Strategy:

✓ Advance 4 Gold targets (near surface potential for open pit mining) to a resource

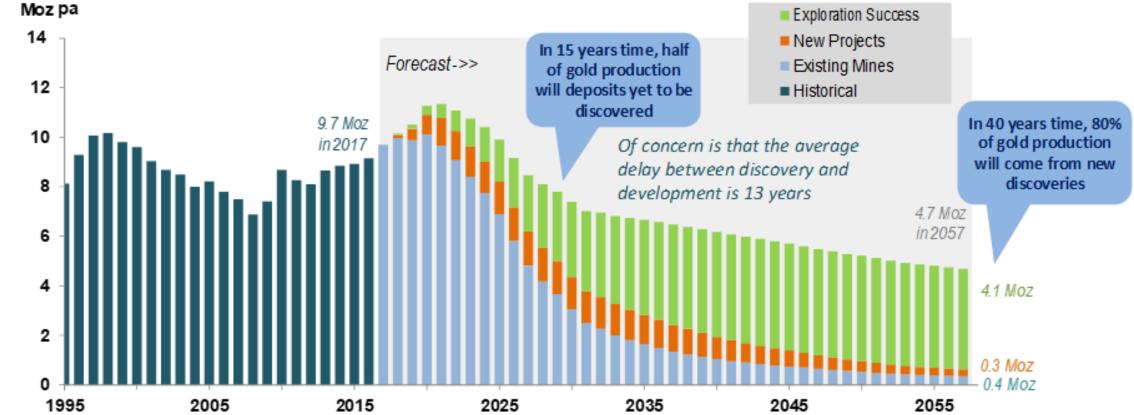
✓ Advance 3 major Gold-Copper porphyry projects via Joint Ventures with majors

- Parkes: JV with JOGMEC (Japan Government Resource Agency)
- Myall: pre discovery, ~\$8m exploration to date (MAG + GF)
- Wellington North: ~\$4m exploration to date (MAG + GF)

WA Gold and Copper/Nickel/Cobalt projects: drill targets or JV (close to GBR and Gold Road)



# Forecast sources of Gold Production Australia: 1995-2057



Note: Mean/Average forecast only. Due to uncertainty in commodity prices and exploration success the likely forecast figure (at a 90% Confidence Interval) will vary by +/-40%.

Source: MinEx Consulting © October 2017



## Without projects supply gap will exceed 15Mt by 2035

(Mt) 30

1. Copper Mine Production 2017: 20.4Mt

2. Committed\* Mine Supply Forecast

#### DEMAND Others 25 SUPPLY 20 GAP 15 9 10 Codelco Freeport Glencore 5 Grupo Mexico Concentrates KGHM 0 First Quantum 17 23 21 25 19 27 29 31 SXEW **Rio Tinto**

\* Committed = Existing Operations and Firm Expansions

North America

Europe

Asia

33

South America

Africa

Australasia

35



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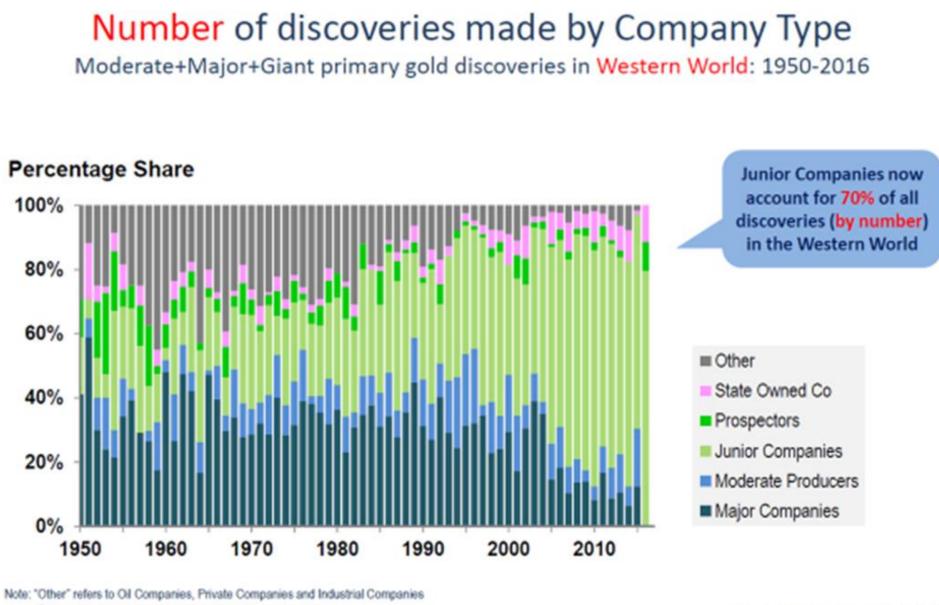
10.

BHP

MMG

Antofagasta



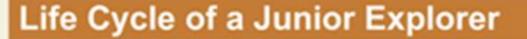


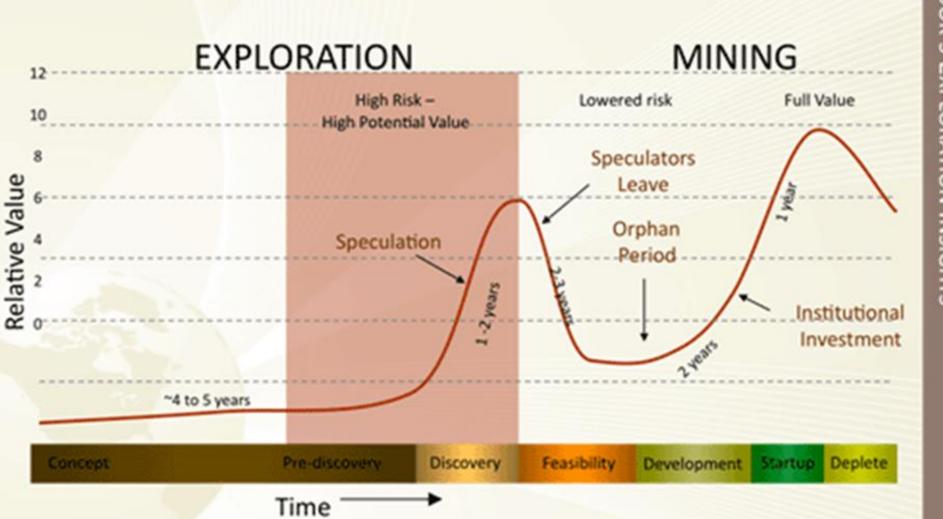
Discoveries by unknown companies have been prorated Figures are adjusted for shared discoveries

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Source: MinEx Consulting @ March 2017







BRENT COOK'S EXPLORATION INSIGHTS



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## **Porphyry Copper Gold deposits explained**



- Porphyry deposits are the world's most important source of Copper (Cu) and Molybdenum (Mo), and are major sources of Gold (Au). They account for about 50 to 60% of world Copper production.
  - Porphyry deposits typically contain hundreds of millions of tonnes of ore at grades ranging from 0.2% to more than 1% Cu while in porphyry Au and Cu-Au deposits, Au grades range from 0.2 to 2 g/t Au.

## Major Porphyry mines:

- Grasberg in Indonesia: world's largest gold and second largest copper mine.
  Freeport-McMoRan (FCX), forced by Indonesian government to reduce to 49%
- Escondida in Chile is the worlds largest copper producer

Australia's 2 porphyry mines are in East Lachlan, near MAG's 3 porphyry projects: ≻Cadia Valley (Newcrest) 53Moz Gold and 9.2Mt Copper

>North Parkes (China Molybdenum and Sumitomo) 4Moz Gold and 3.7Mt Copper



#### #1 in Australia: porphyry Copper Gold : > 66Moz Gold & 11Mt Copper<sup>1</sup>

<sup>D</sup>USGS estimates 4 to 10 undiscovered porphyry coppergold deposits<sup>2</sup>

Fortescue opened office in Orange and actively exploring for copper

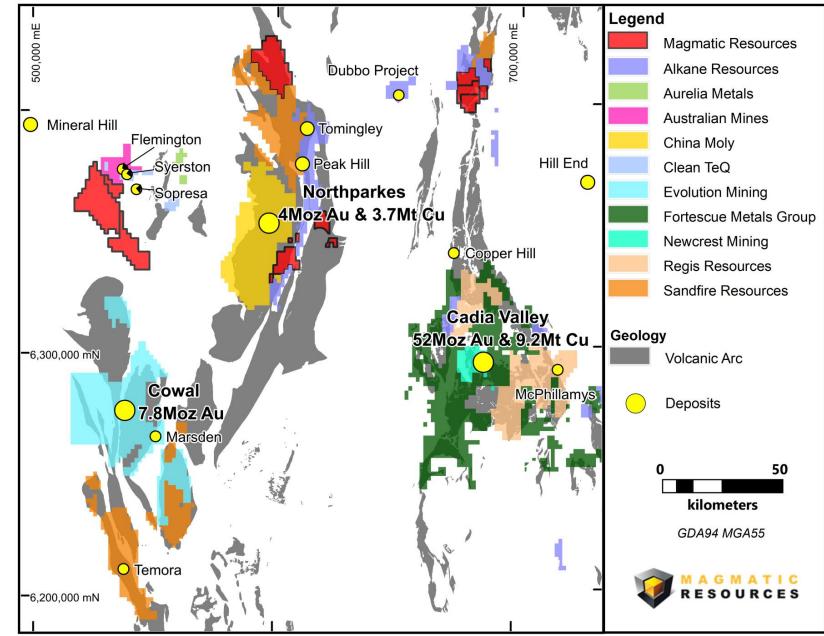
Newcrest (Cadia Valley: 52Moz Gold & 9.2Mt Copper) actively seeking new greenfields projects

**Evolution** expanded in 3 years Gold resource by **4Moz to 8Moz** 

**Regis** advancing **2.2Moz Gold** McPhillamys project

China Molybdenum bought 80% of North Parkes mine in 2015 from RIO for \$800m. 4Moz Gold +3.7Mt Copper. Sumitomo 20%

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1. Metal endowments from: Phillips, G.N. (Ed), 2017. Australian Ore Deposits (The Australian Insittute of Mining and Metallurgy: Melbourne

2. Bookstrom et al. 2010 USGS Porphyry Copper Assessment of Eastern Australia



## Newcrest's Cadia Valley vs MAG porphyry projects



#### Newcrest: Cadia Valley 52Moz Gold & 3.7Mt Copper

1991 - 1995 Newcrest exploration included an IP survey and RC drilling.

995 – 1996 drilling began to hit weak mineralisation and included intersects:

8m @ 0.53% Cu, 0.42g/t Au, 1m @ 5.68g/t Au and 2m @ 10.6g/t Au<sup>1</sup>.

Best Intersection before discovery hole: 102m @ 0.40% Cu and 0.13 g/t Au from 610m.<sup>1</sup>

Nov, 1996: **Discovery NC498** (Glory hole):

145m @ 4.3 g/t Au, 1.20% Cu from 598m,

84m @ 7.4 g/t Au, 1.27% Cu from 821m.<sup>1</sup>

#### MAG

Myall Project: Kingswood Target Best Intercepts<sup>2</sup>:

- 121m at 0.4% Cu, 0.09g/t Au (MYACD001, from 103m), including: 70m at 0.54% Cu and 0.15 g/t Au (from 141m)
- 62m at 0.27% Cu and 0.13 g/t Au (MYACD001, from 260m)
- 110m at 0.42% Cu, 0.11g/t Au (ACDNM090, from 192m), including 60m at 0.56% Cu, 0.16g/t Au (from 211m)
- 22m at 0.21% Cu and 0.2 g/t Au, (NACD156, from 374m)
- 28m at 0.17% Cu and 0.09 g/t Au, (NACD156, from 235m)

#### Wellington Project: Rose Hill Target Best Intercepts<sup>3</sup>:

 71m at 0.43% Cu and 0.3g/t Au,(RHRC005, from surface)

#### Parkes JV Project: Buryan Target Best Intercepts<sup>4</sup>:

 135m at 0.29% Cu, 0.17g/t Au, (RCDAT054, from 254m) including 28m at 0.50% Cu, 0.28g/t Au (from 289m)

MAG ASX release 31/1/2019
 MAG Prospectus release 17/5/2017
 MAG ASX release 29/1/2019



<sup>1.</sup> New Gen Gold conference proceedings, 1999

### MAG vs Staveley Minerals Ltd porphyry targets: best intercepts

#### Staveley: ~\$50m Mkt Cap

#### Victoria: T<u>hursday's Gossan target Best</u> Intercepts<sup>1</sup>:

63m at 0.84% Cu and 0.11g/t Au (SMD032, from 517m)

124 metres at 0.31% Cu, 0.12 g/t Au and 13 g/t Ag, incl, 13 metres at 0.31% Cu, 0.35 g/t Au and 18 g/t Ag,

36 metres at 0.43% Cu, 0.20 g/t Au and 7 g/t Ag, incl, 20 metres at 0.65% Cu, 0.30 g/t Au and 12 g/t Ag,

85 metres at 0.35% Cu, 0.18 g/t Au and 3 g/t Ag, incl, 35 metres at 0.44% Cu, 0.28 g/t Au and 4 g/t Ag

#### MAG: ~\$4m Mkt Cap

Myall Project: Kingswood Target Best Intercepts:

 70m at 0.54% Cu and 0.15 g/t Au (MYACD001, from 141m)

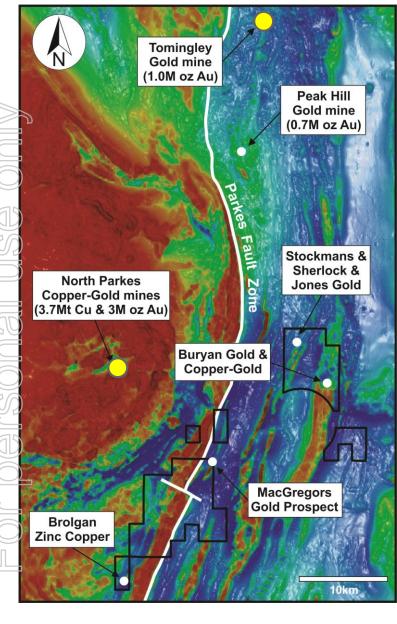
Wellington Project: Rose Hill Target Best Intercepts:

 71m at 0.43% Cu and 0.3g/t Au,(RHRC005, from surface)

Parkes JV Project: Buryan Target Best Intercepts:

- 26m at 0.52% Cu and 0.29g/t Au (from 289m)
- Further DD results awaiting release
- 9 new porphyry targets at Parkes East



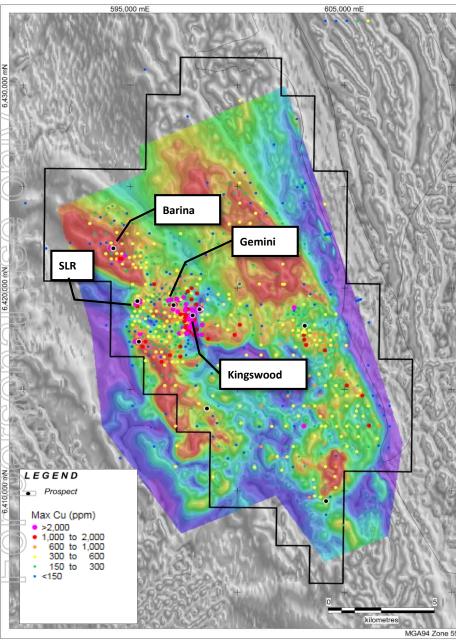


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#### Parkes: Cu-Au porphyry & Epithermal Au project JV

- JV with JOGMEC (Japanese government resources agency) is prospective for porphyry Copper-Gold, and orogenic Gold. Further \$1M 2018-19 budget approved
- Recent drilling at MacGregors Gold Prospect identified a 2km long Gold trend
- Recent aeromag survey identified 9 porphyry copper gold and 3 orogenic Gold targets

Porphyry Cu-Au:	Near Surface Orogenic Au:	Polymetallic + Zinc-Copper:
<ul> <li>Buryan</li> <li>Porphyry Copper Gold system</li> <li>Central mineralised core with Au-base metal peripheral veins</li> <li>Several open targets − scheduled for drilling</li> <li>135m at 0.29% Cu, 0.17g/t Au (from 254m), including 28m at 0.50% Cu and 0.28g/t Au (from 289m)<sup>1</sup></li> <li>40m at 0.32 % Cu, 0.1 g/t Au (from 171m).</li> </ul>	<ul> <li>MacGregors/MacGregors South<sup>2</sup></li> <li>10m at 1.25 g/t Au (from 146m), within a broader zone of 19m at 0.8 g/t Au</li> <li>15m at 0.74 g/t Au (from 108m), within a broader zone of 30m at 0.57 g/t Au</li> <li>Stockmans<sup>1</sup>:</li> <li>22m at 0.79g/t Au (from 45m in S1), incl. 14m at 1.01 g/t Au (from 47m)</li> <li>12m at 1.42g/t Au (from 7m in S2), incl. 6m at 2.44g/t Au (from 9m)</li> </ul>	Secrets & Black Ridge Brolgan → Elevated levels of Zn and Cu in previous AC drilling
1. MAG ASX re;ease 29/1/2019 2. MAG ASX release 20/3/2018	12 /	ASX: <b>MAG</b>



#### Myall: Cu-Au porphyry and Epithermal Au project

- High order targets within the previously identified porphyry Copper Gold system
- Very large volcano-intrusive complex in the East Lachlan, similar age as Cadia Valley and Northparkes porphyry systems
- MAG and Gold Fields spent ~\$8M advancing project
- 244km2, renewed until October 2020,

Porphyry Copper Gold - focus:	Epithermal Au & base metals:		
Kingswood, SLR, and Gemini <sup>1</sup>	Barina <sup>2</sup> :		
▶121m at 0.4% Cu , 0.09g/t Au (from 121m in MYACD001), including 70m at 0.54% Cu and 0.15g/t Au (from 141m)	<ul> <li>0.5m at 204 g/t Au (from 221.9m in MYACD368)</li> <li>and Gemini<sup>2</sup>:</li> </ul>		
<ul> <li>D.34% Cu unu 0.13g/t Au (from 14111)</li> <li>open to North</li> <li>▶ 110m at 0.42% Cu, 0.11 (from 192m in</li> </ul>	9m at 3.19g/t Au from 359m, incl. 1m at 8.83g/t Au from 360m and 2m at 6.38g/t Au from 363m		
ACDNM090), including 60m at 0.56% Cu, 0.16 g/t Au (from 211m)	<ul> <li>3m at 5.06g/t Au and 0.66% Cu from 692m</li> </ul>		
▶1m at 0.22% Cu eoh, pyrite and chalcopyrite (MYAC153)	3m at 3.86g/t Au and 8m at 0.92g/t Au from 702m		

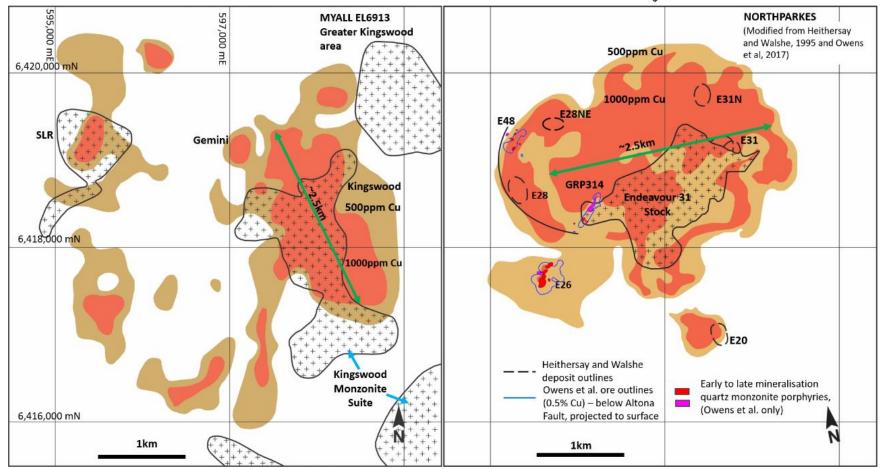
- 1. MAG ASX release 31/1/2019
- 2. MAG prospectus release 17/5/2017



## **Myall: Greater Kingswood: Northparkes comparison**



- .
  - Copper anomaly similar size and tenor to <u>Northparkes</u>
  - Northparkes is a giant deposit with a long mine life
  - Northparkes 12 porphyry centres, with 5 main production areas
  - Myall: 2.5 by 1-1.5km
  - Northparkes: 2.5 by 1-2km
  - Monzonite suites also similar size
  - Shape varies sub-circular/ irregular to lenticular with dimensions of ~80-350m wide, ~350-500m long to 500m to >1000m deep



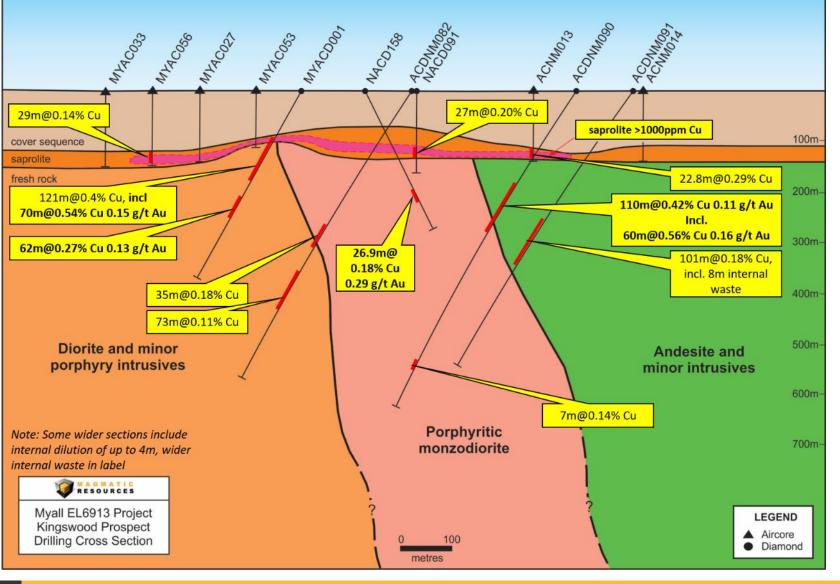


## **Myall: Kingswood Prospect – Cross section**



ASX:MAG

- Reduced drill risk already found porphyry system
- Northparkes: irregular style deposits (sub-circular to lensoidal in plan)
- We are in the system and we believe further drilling will define mineralisation
- Myall intersections similar to Northparkes grades<sup>1</sup>:
  - ✓ RESOURCE: 0.56% Cu, 0.18 g/t Au
  - ✓ 2016 PROD: 0.89% Cu, 0.26 g/t Au

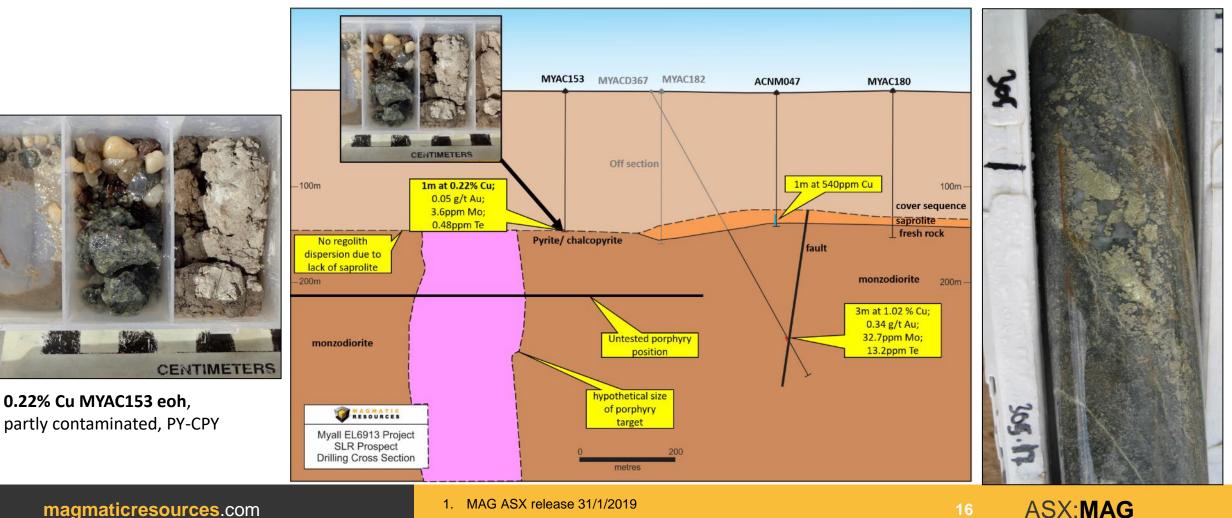


## Myall: Greater Kingswood area – SLR cross section

 $\checkmark$  Untested eoh anomaly (SLR) warrants immediate drill testing.

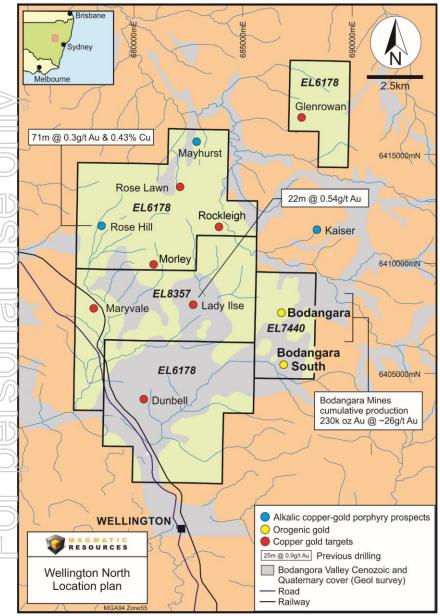
SLR<sup>1</sup>: **1m at 0.22% Cu (eoh)**, not tested, potassic alteration in immediate vicinity (below). Anomalous Mo-Te.





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1. MAG ASX release 31/1/2019



## Wellington North: Gold & Cu-Au porphyry project

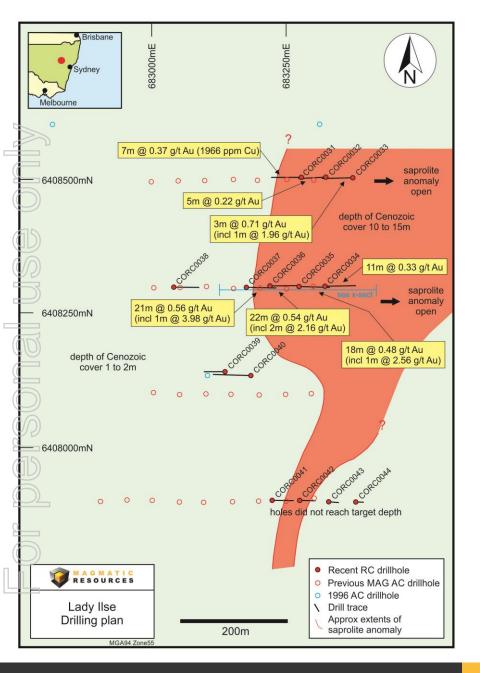
- Tenements cover large volcanic-intrusive centre in the northern end of the Molong Rise, which hosts Newcrest's Cadia Valley porphyry Copper Gold deposits
- Mineralisation characterised by shallow cover easy to explore and potentially develop
- Historical high grade Bodangora gold mine
   ✓ 2m at 5.3 g/t Au<sup>1</sup> (from 14m, 18BNRC002)
   ✓ 92.8 g/t Au<sup>2</sup> rock chip
- 2 major Au-Cu porphyry targets
- Morley 7.7% Cu<sup>3</sup>

Porphyry Au-Cu:	Orogenic Au:
<ul> <li>Lady Ilse</li> <li>&gt; 10km trend untested</li> <li>&gt; 22m at 0.54 g/t Au (250ppm Cu) from 18m<sup>4</sup></li> <li>and Rose Hill</li> <li>&gt; 71m @ 0.30g/t Au &amp; 0.43% Cu from 0m, incl.</li></ul>	<ul> <li>Bodangora (Dicks Reward,</li></ul>
6m @ 0.99g/t Au & 1.47% Cu from 0m <sup>5</sup>	Mitchell Creek, Knowles): <li>➢ Historical gold mine:</li> <li>• 230k oz @ 26g/t Au<sup>5</sup></li>

MAG ASX release 20/582018
 MAG ASX release 10/5/2018
 MAG ASX release 4/6/2018

- 4. MAG ASX release 19/2/2018
- 5. MAG Prospectus 17/5/2018



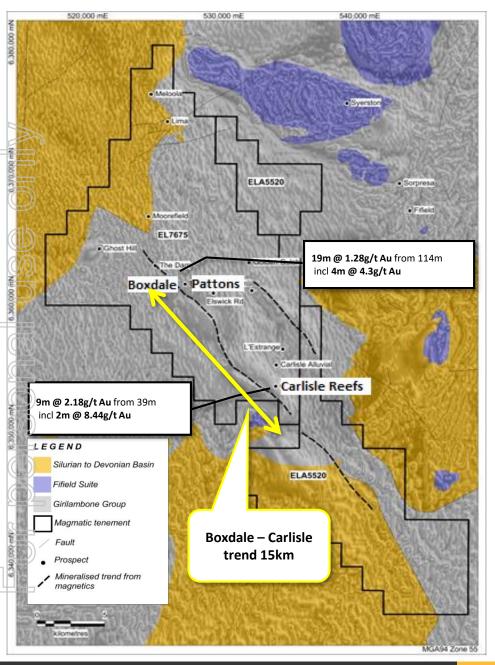


## Wellington North: Gold & Cu-Au porphyry project

- Immediate regional setting has three identified porphyry mineralised systems: Rose Hill and Mayhurst, within Wellington North Project, and the nearby Kaiser prospect held by Alkane
- Previous drilling at Rose Hill Gold-Copper porphyry Prospect intersected:
  - ✓ 71m @ 0.30g/t Au & 0.43% Cu from 0m, incl. 6m @ 0.99g/t Au & 1.47% Cu from 0m<sup>1</sup>
- The shallow cover sequence has masked mineralisation and opens up a 10km trend along the Lady IIse Gold-Copper Prospect structure:
- Best intercepts from 1,360m RC program targeting Lady IIse
   Gold-Copper Prospect announced in February<sup>2</sup>:

✓ 22m at 0.54 g/t Au (250ppm Cu) (CORC0036, from 18m)
✓ 18m at 0.48 g/t Au (280ppm Cu) (CORC0035, from 61m)
✓ 7m at 0.37 g/t Au and 0.2% Cu (CORC031, from 97m)
✓ 8m at 0.98 g/t Au (CORC036, from 19m)
✓ 9m at 0.74 g/t Au (CORC036, from 75m)





## Moorefield: Au & Base Metals project

- Boxdale Gold Prospect: Old gold workings in quartz-veined shear zones, with previous intercepts including 19m at 1.28 g/t Au (from 114m in BDRC001)<sup>1</sup>
- Carlisle Reefs Gold Prospect: Gold associated with quartz veins in strongly sheared and folded metasediments<sup>2</sup>:
  - ✓ 30m @ 1.6 g/t Au
  - ✓ 36m @ 1.21 g/t Au
  - $\checkmark$  9m at 2.18 g/t Au, incl 2m @ 8.44 g/t Au
- High resolution aeromag survey completed and extensive soil sampling campaign and drill program planned

Near Surface Orogenic Au:	Polymetallic/ Skarn:	VMS Cu-Au:
<ul> <li>15km gold trend:</li> <li>Boxdale:</li> <li> 19m at 1.28 g/t Au<sup>1</sup></li> <li>Carlisle Reefs:</li> <li>&gt; 30m @ 1.6 g/t Au<sup>2</sup></li> <li>&gt; 9m at 2.18 g/t Au<sup>2</sup></li> </ul>	<ul> <li>Ghost Hill:</li> <li>➢ Skarn</li> <li>➢ Mag high</li> <li>Lima:</li> <li>➢ Undrilled gossans</li> </ul>	Pattons and Moorefield: High resolution airborne radiometric and magnetic survey completed

1. MAG Prospectus release 17/5/2017 2. MAG ASX release 17/10/2017

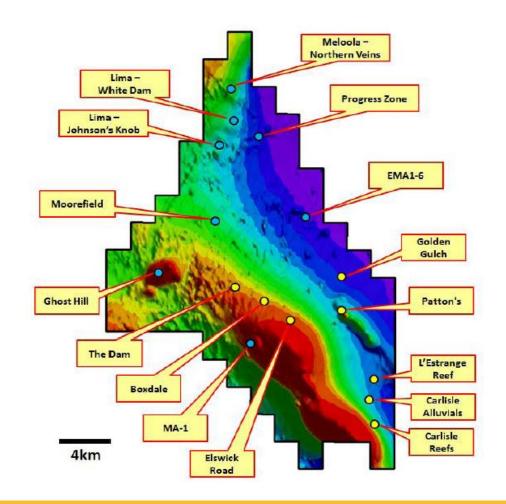


## **Moorefield Project: Gold and VMS**

Moorefield presents an opportunity to realise near term value through exploration of multiple drill ready near surface Au prospects and significant Tritton style Cu targets

Major prospects: Boxdale, Carlisle Reefs, L'Estrange, Patton's, Ghost Hill, Meloola, Lima, Moorefield

- **Boxdale** (Au-Cu): drill intersections encountered mineralisation including **19m @ 1.28g/t Au**, inc. 4m @ 4.3g/t Au and **15m @ 1.00g/t Au**, inc. 6m @ 2.11 g/t Au open along strike and at depth<sup>1</sup>
- **Carlisle Reefs**: Significant undrilled historical workings over an 800m x 800m area. No previous drilling before MAG
- **Patton's (Au-Cu): emerging VAMS Cu-Au basin**, Tritton Cu-Au mine (>20Mt at ~1.5% Cu) and recent Collerina Cu-Au discovery (Helix Resources)
- **Ghost Hill**: Shallow skarn hosted polymetallic target with a large 2.5km x 1.5km magnetic anomaly. Minor shallow drilling returned 15m @ 0.64g/t Au incl. **6m @ 1.3g/t Au**<sup>1</sup>



1. MAG Prospectus release 17/5/2017



### 14km Gold Corridor: Boxdale – Carlisle Reefs

#### Boxdale Au-(As-Ag-Cu-Bi) Trend

Meta-sediment hosted, epithermal quartzsulphide Au-As-Ag-Cu-Bi vein system, with Cobar type polymetallic (Au-Cu-Ag-Pb-Zn-Bi-As) potential at depth

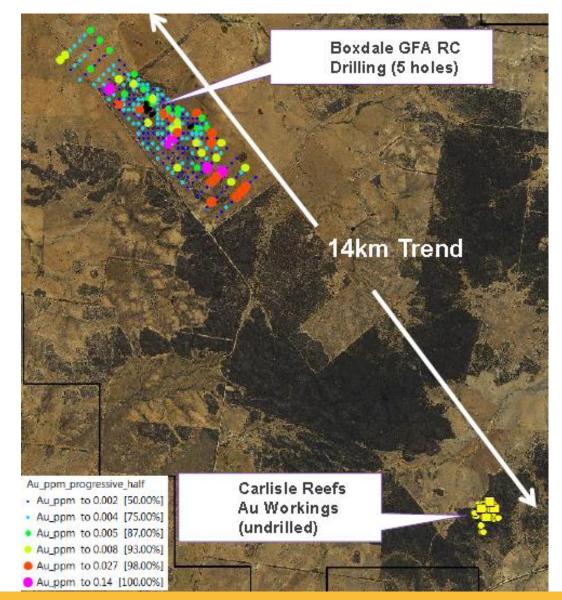
Shallow Au-Ag RC drill intersections (5 GFA RC holes for 888m), open along strike and at depth, including<sup>1</sup>:

- ✓ 19m @ 1.28 g/t Au, Incl. 4m @ 4.3 Au
- ✓ 15m @ 1.00 g/t Au, Incl. 6m @ 2.11 g/t Au

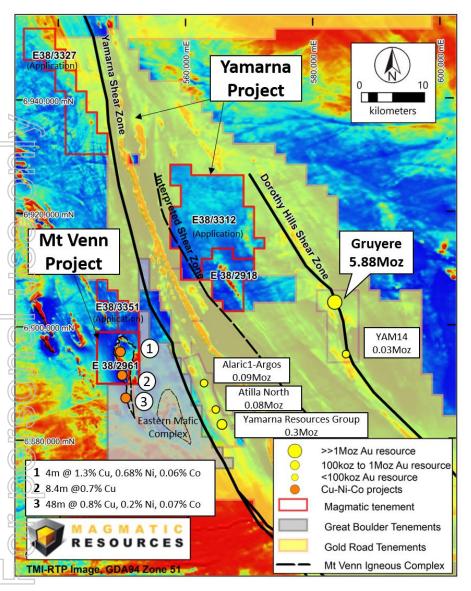
Potential 14km corridor from Boxdale to Carlisle Reefs, including L'Estrange and Carlisle Alluvials

1. MAG Prospectus release 17/5/2017

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Yamarna and Mt Venn Projects in regional geological setting and shear zones

## WA target generation projects

- Portfolio diversified in 2018, picking up two greenfields exploration projects in proven mineralised district of the Yamarna belt
- Mt Venn project covers 60% of the Mt Venn Igneous Complex and along strike of the copper-nickel-cobalt sulphide discovery of Great Boulder Resources Ltd (ASX:GBR)
- Yamarna Gold project is 355km<sup>2</sup> of underexplored Yamarna greenstone belt 15 km from the 6 Moz Gruyere gold deposit
- In line with our strategy both projects:
  - ✓ are targeting gold and/or copper with other in demand commodities with long term supply and discovery cost issues
  - ✓ great potential for target generation at low costs



## **Corporate Profile and Exploration capability**

#### Tight capital structure:

117m fully paid Ordinary Shares on issue, with

67m or 57% (Founders and Gold Fields) escrowed to 19 May 2019

Market Cap approx. \$3.5m

#### **Exploration capability:**

- Exploration Manager, Steven Oxenburgh: 30 years' exploration experience, including Exploration Manager, Millennium Minerals Ltd and superintendent exploration at Gold Fields St Ives mine.
- **Principal Exploration Geologist,** Vladimir David: 27 years' exploration experience, Phd focused on region. , key roles including Team Leader of the Hera gold-leadzinc-copper discovery
- Non-Executive Director, Malcolm Norris: Geologist with extensive experience focused on porphyry discovery and development (Tampakan copper-gold mine, Philippines, Tujuh Bukit gold-copper project, Indonesia and Cascabel copper-gold project, Ecuador). Currently MD of Sunstone Metals.



## **Peer Analysis**



Magmatic Resources Ltd (MAG) believes that Impact Minerals Limited (IPT), Stavely Minerals Limited (SVY) and Great Boulder Resources Ltd (GBR) are useful ASX listed proxies to benchmark the potential market valuation of MAG against.

Cuu	MAG	IPT	SVY	GBR
Share Price	\$0.03 (52W High: \$0.12)	\$0.009 (52W High: \$0.19)	\$0.22 (52W High: \$0.42)	\$0.14 (52W High: \$0.57)
Mkt Cap – 5 Jan 2019	~\$3.5 Million	~\$12 Million	~\$35 Million	~\$11 Million
Mkt Cap - 12 months ago	~\$8 Million	~\$18.5 Million	~\$63 Million	~\$27 Million
Shares on Issue	~ 117,240,000	~ 1,320,000,000	~ 156,470,000	~ 80,110,000
Key Locations	Lachlan Fold Belt (NSW); Yamarna (WA)	Lachlan Fold Belt (NSW)	Western Victoria; Queensland	Western Australia
Commodity Exposure	Gold; Gold-Copper; Copper- Nickel-Cobalt; Base Metals	Gold; Silver; Base Metals	Copper; Gold; Silver	Copper-Nickel-Cobalt;
Projects	Parkes JV, NSW (Cu-Au, Au) Wellington North, NSW (Au, Cu- Au) Moorefield, NSW (Au, Base Metals) Myall, NSW (Au-Cu Mt Venn, WA (Cu-Ni-Co) Yamarna, WA (Au)	Commonwealth, NSW (Au, Ag, Ba) Mulga Tank (Ni, Cu, PGE) Broken Hill (Ni, Cu, PGE) Clermont (Au, Ag, Cu)	Stavely, Vic (Cu, Au) Ararat, Vic (Cu, Au, Ag)	Mt Venn, WA (Cu-Ni-Co) Tarmoola, WA (Au) Jundee South, WA (Au) Balagundi, WA (Au) Broadwood, WA (Au)

(Note: Key investor data above calculated on closing prices 4 January 2019 and public information released prior)

