



ASX: ALY

# Alchemy

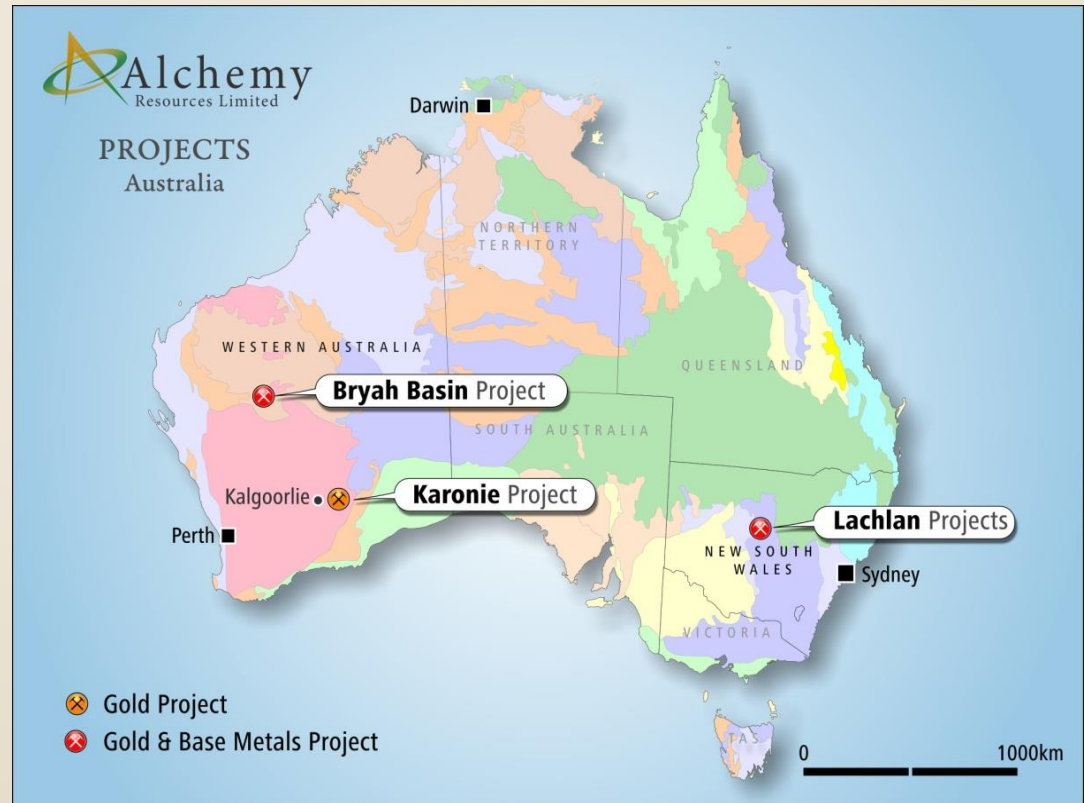
Resources Limited

Investor Presentation  
February 2017



# Building a gold and base metals business

- Our aim is to **discover a “company maker” gold and/or base metal deposit** through intelligent, targeted exploration of quality Australian projects:
  - **Cobar Basin / Lachlan Fold Belt (NSW) – high-grade gold and base metal targets (674km<sup>2</sup>)**
  - **Eastern Goldfields (WA) – Karonie Gold Project 100km east of Kalgoorlie (673km<sup>2</sup>)**
  - **Bryah Basin (WA) – Gold & base metal JV funded by Independence and Billabong (527km<sup>2</sup>)**
- **Highly experienced board**
- **Strong major shareholder support**



# Alchemy Resources (ASX: ALY) - Corporate snap-shot

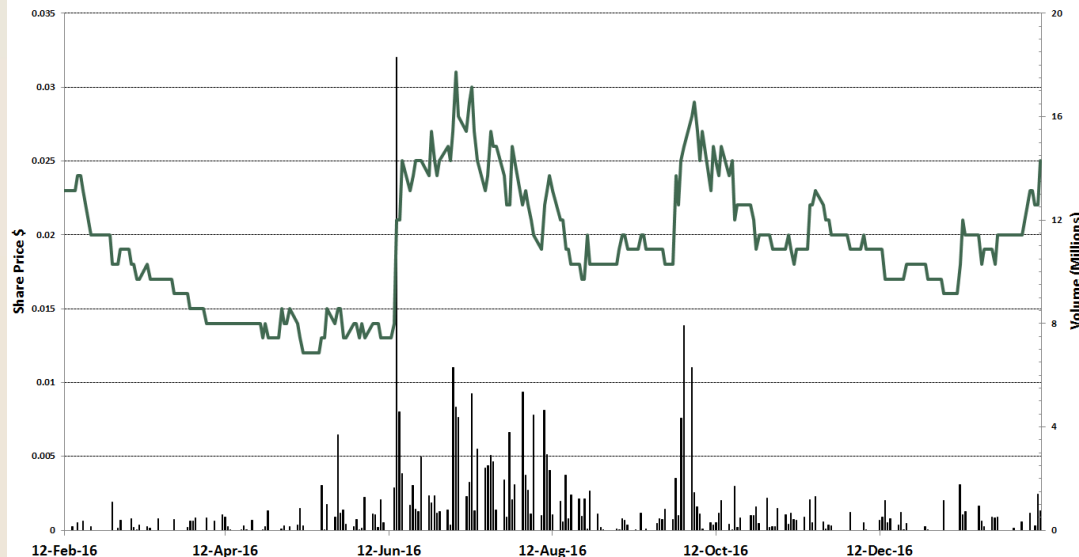
## Capital Structure

Listed on ASX	November 2007
Shares on Issue	230.79m
Options - unlisted	10.5m
Share Price (14 Feb 2017)	2.3c
Market Cap	\$5.3m
Cash (31 Dec 2017)	\$0.8m

## Shareholders

Northern Star Resources	33.33m (14.4%)
Jindalee Resources	17.47m (7.6%)
Lindsay Dudfield	12.46m (5.4%)
Top 20	52.3%
Top 40	61.2%
No of Shareholders	1,316

Alchemy Resources Limited: 12 month Share Price / Volume

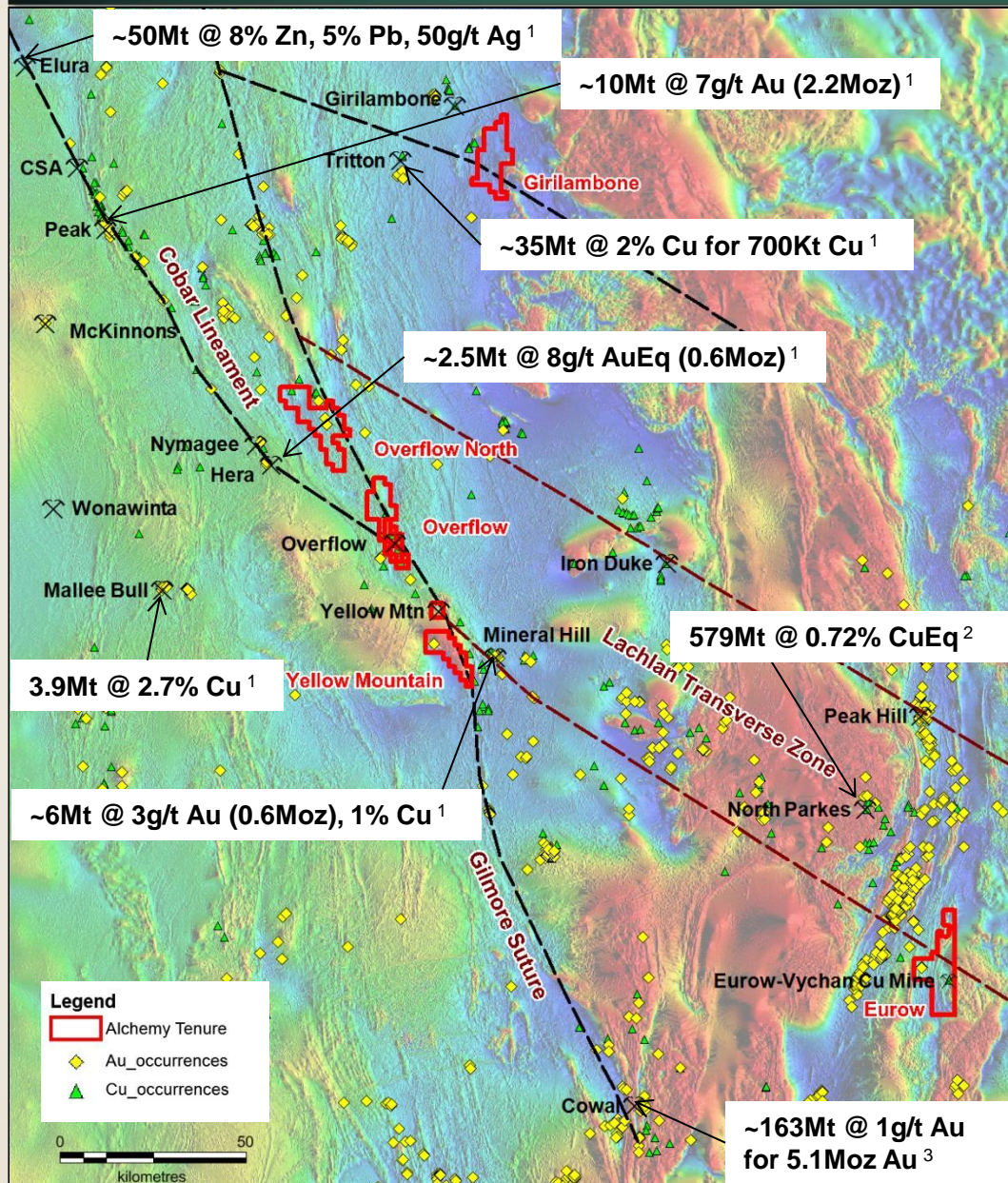


## Board & Management

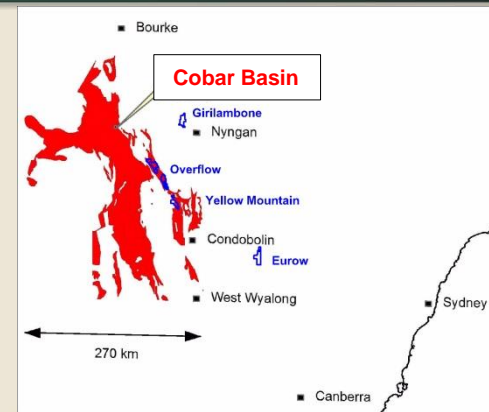
Oscar Aamodt	Chairman
Leigh Ryan	Managing Director
Liza Carpene	Non Executive Director
Lindsay Dudfield	Non Executive Director
Anthony Ho	Non Executive Director
Bernard Crawford	Company Secretary



# Cobar Basin / Lachlan Fold Belt Projects (674km<sup>2</sup>) – Epithermal, VMS, SEDEX, Porphyry Cu-Au



- 378km<sup>2</sup> in Cobar Basin which has a pre-mining metal inventory of:
  - >6.4 Moz Au
  - >2.2 Mt Cu
  - >4.0 Mt Zn
  - >3.0 Mt Pb
  - >200 Moz Ag



(Ref. Aurelia Metals Ltd ASX announcement dated 26 Sept 2012)

- **Overflow Projects:** 40km along strike of Hera and Mineral Hill (Cobar-style polymetallic mineralisation).
- **Yellow Mountain:** 10km from Mineral Hill
- **Eurow:** 34km from North Parkes Mine
- **Girilambone Project:** 20km from Tritton
- **Farm-in and JV Agreement** with Heron/TriAusMin/Ochre to earn up to an 80% interest in all five tenements by sole funding \$2M on exploration within 5 years (commencing 30 May 2016)
- **Annual DPI Minimum Expenditure = \$300,000**

**Alchemy projects, major mines, Au / Cu mineral occurrences, and major structures over aeromagnetic image**

<sup>1</sup> Peel Mining Ltd ASX announcement dated 22 Nov 2016

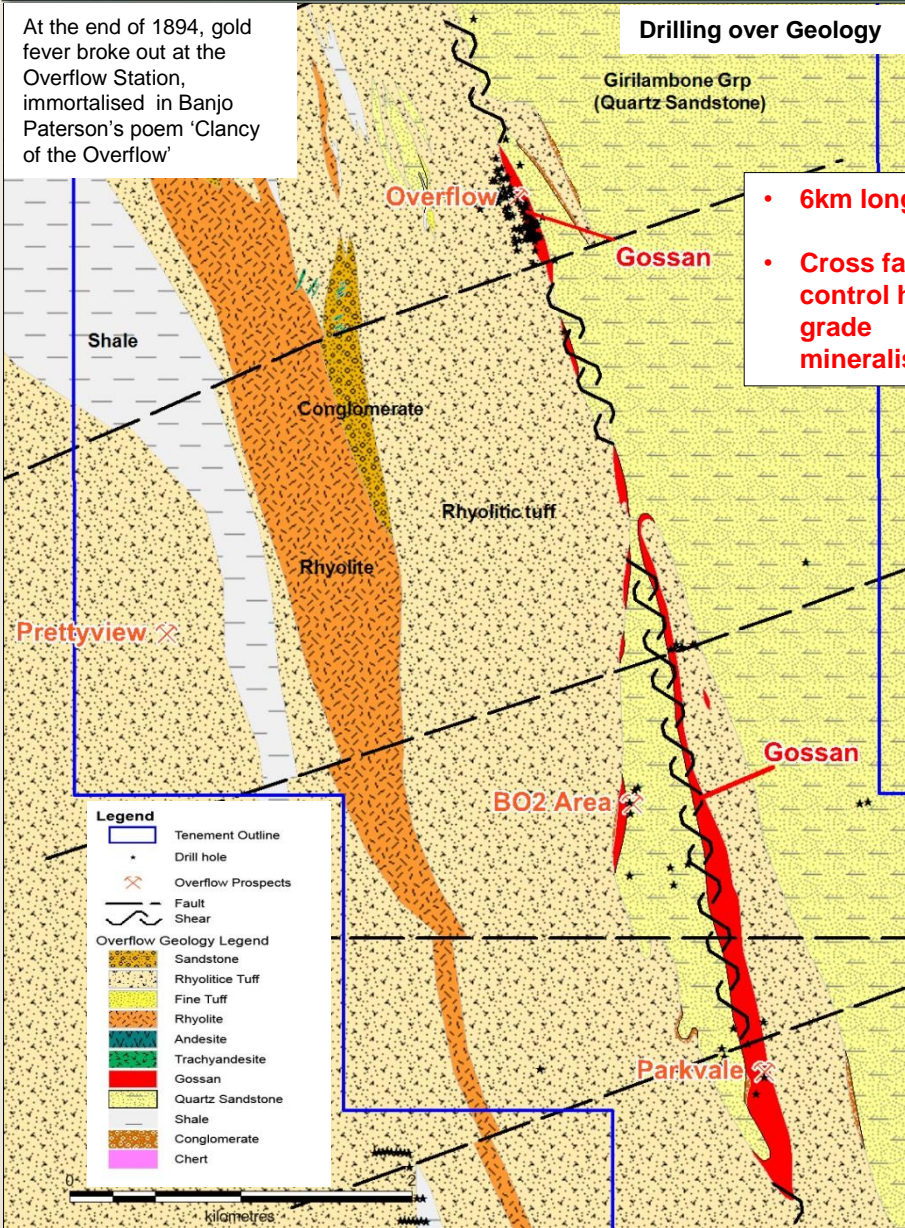
<sup>2</sup> Reserves and MI Resources - China Molybdenum Co. Ltd website 2017

<sup>3</sup> Reserves and Resources - Evolution ASX announcement dated 26 Aug 2015

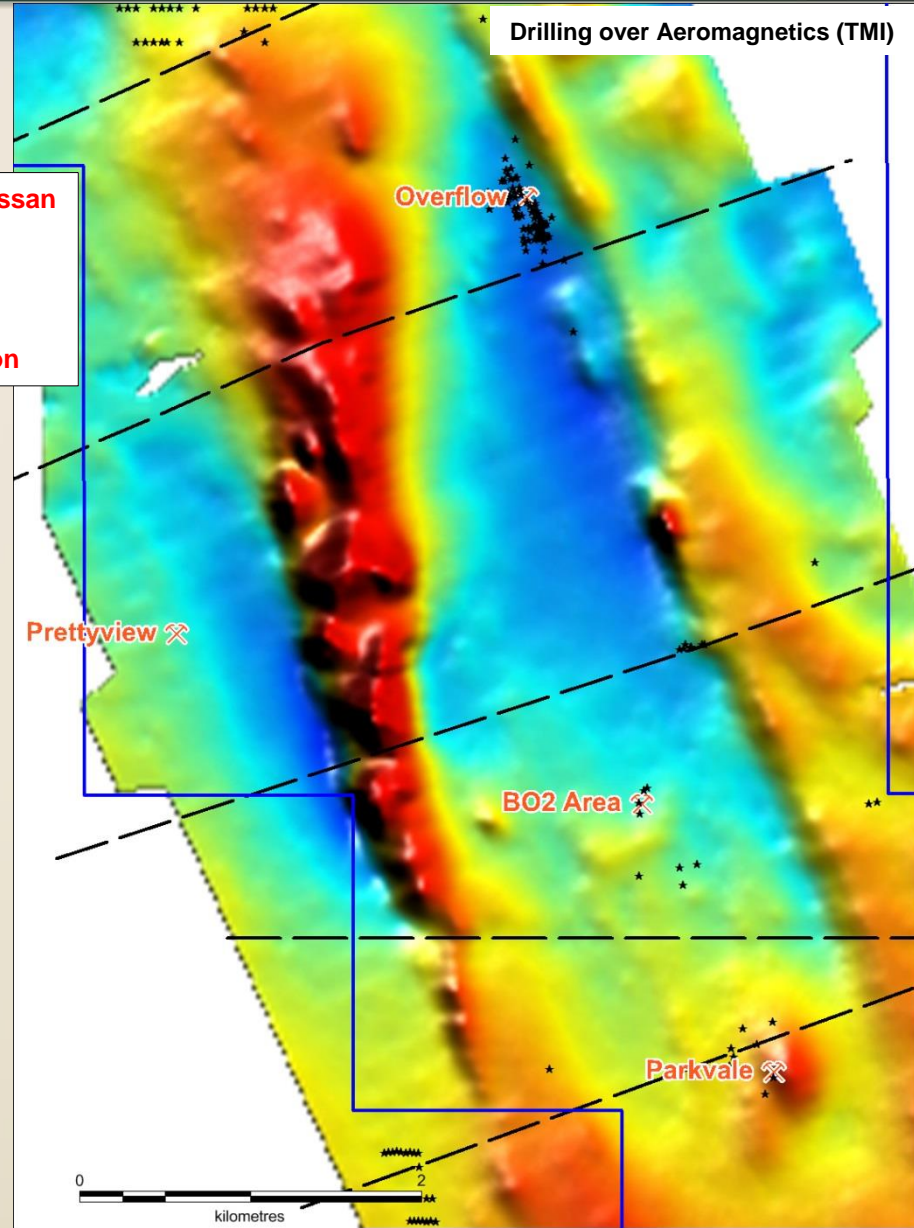


# Overflow Mine Area – Geology and Aeromagnetics

At the end of 1894, gold fever broke out at the Overflow Station, immortalised in Banjo Paterson's poem 'Clancy of the Overflow'

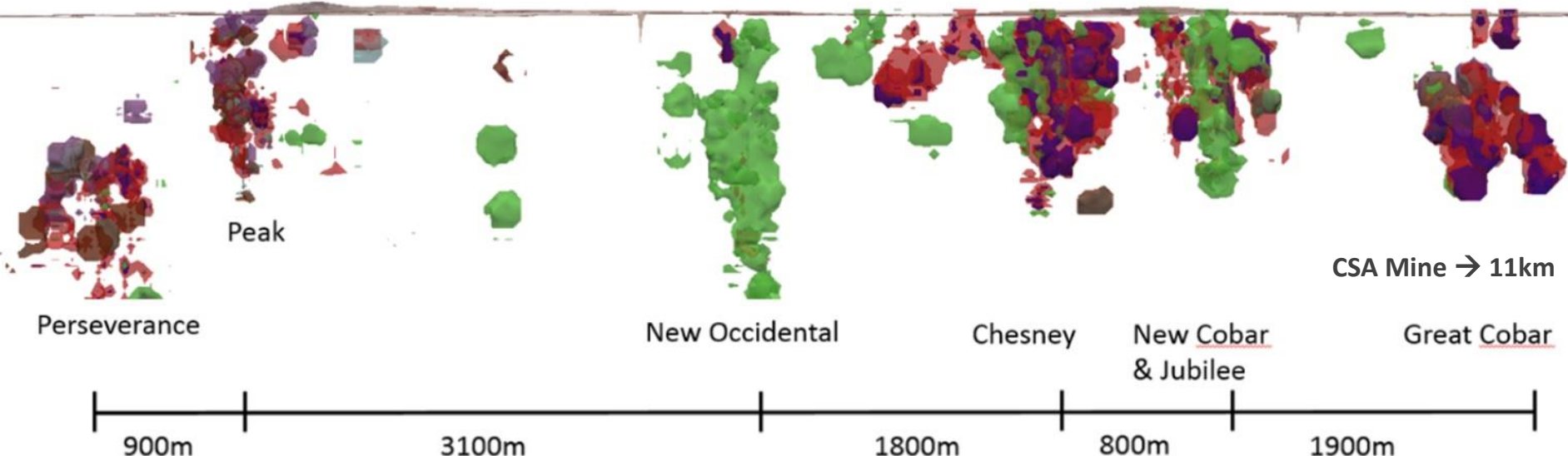


- 6km long gossan
- Cross faults control high grade mineralisation

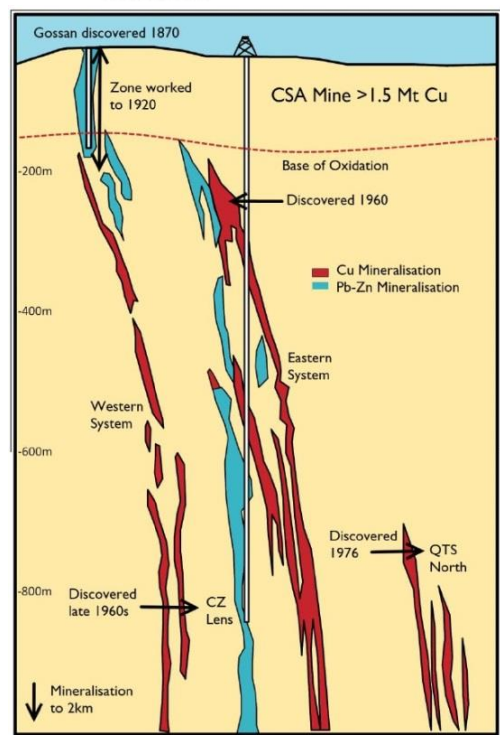




# Cobar style mineralisation: polymetallic, small surface footprint, long legs



Ref. New Gold Website Feb 2017



- Cobar-style attribute**
- Polymetallic (Cu-Ag-Au-Pb-Zn) ✓
  - Proximity to major structures (growth/transfer faults) ✓
  - Shear-hosted ✓
  - Strongly leached near surface ✓
  - Chlorite and silica alteration ✓
  - Facies and rock competency contrasts ✓
  - Moderate to high strain zone ✓
  - Short strike length (<200m) ✓
  - Narrow widths (5-20m) ✓
  - Vertical continuity (>400m) ✓
  - Clustered/stacked lenses ✓

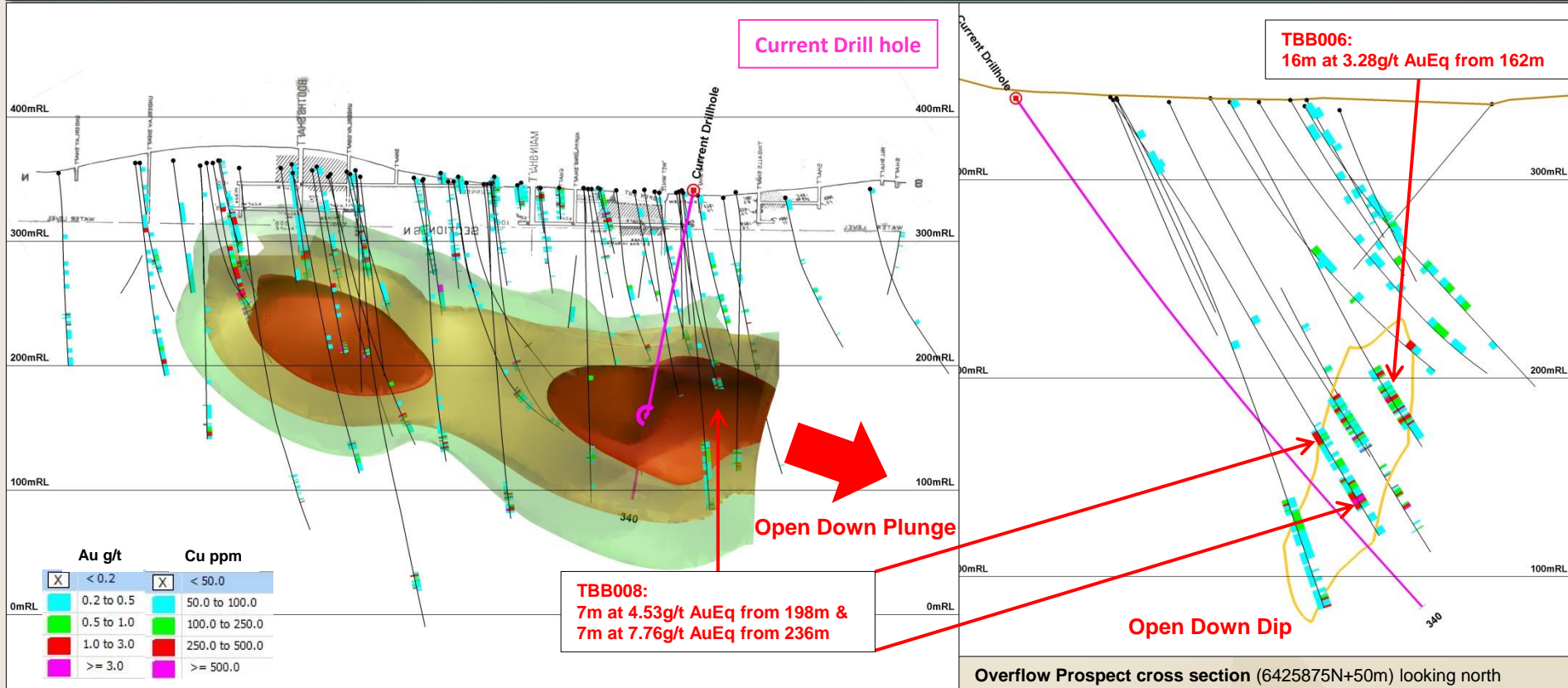
**Overflow Mine**



Overflow Mine

Ref. Peel Mining ASX Announcement 16 May 2013

# Overflow Mine - Proposed Diamond Drilling



**Overflow Prospect long section looking east** showing UG mining, grade x thickness shells of AuEq intersections (red = >50gxm AuEq, yellow = >30gxm AuEq, green = >20gxm AuEq), historic drilling (traces colour by Au and Cu grades) and planned diamond drill hole (currently underway).

**Overflow Prospect cross section (6425875N+50m) looking north** showing grade x thickness shell outline (>20gxm AuEq), historic drilling (traces coloured by Au (left) and Cu (right)) & planned diamond drill hole (underway).

**Overflow Mine Historic Production (1897-1936):**  
4,972oz @ 12.9g/t Au, 35,121oz @ 107g/t Ag, & 1,117t @ 10.9% Pb

**Better Historic Drill Intercepts:**

**BOBRCP6** 4.65m at 20.39g/t AuEq from 185.4m  
(8.49g/t Au, 79g/t Ag, 0.22% Cu, 13.5% Zn, 7.1% Pb)

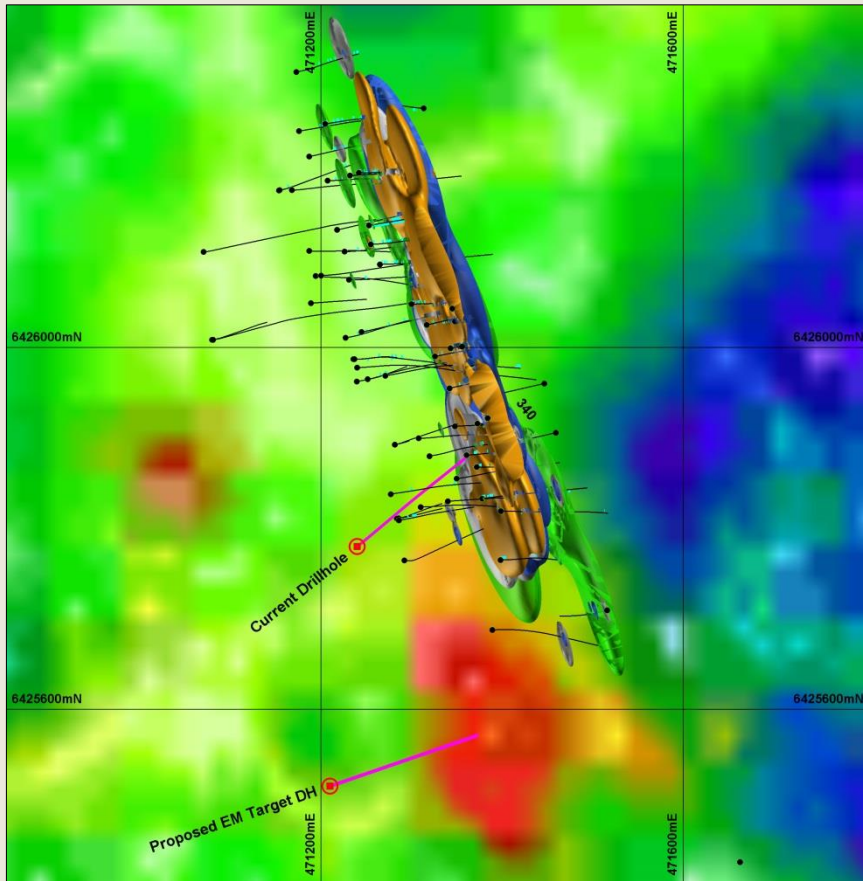
**TBB001** 10m at 7.03g/t AuEq from 163m  
(4.44g/t Au, 21g/t Ag, 0.07% Cu, 3.0% Zn, 1.3% Pb)

**TBB017** 6m at 7.64g/t AuEq\* from 121m  
(4.69g/t Au, 39g/t Ag, 0.21% Cu, 2.4% Zn, 1.9% Pb) &  
6m at 10.71g/t AuEq\* from 136m  
(7.55g/t Au, 29g/t Ag, 0.11% Cu, 3.6% Zn, 1.5% Pb)

Gold equivalent (AuEq\*) values were assigned to each drilling intersection using the following formula (based on metal prices at the time):  $AuEq (g/t) = Au (g/t) + Ag * 0.014 (g/t) + Cu * 1.11 (\%) + Zn * 0.54 (\%) + Pb * 0.46 (\%)$ . AuEq g/t values used in this report refers to the calculated Au equivalent grade based on the Au, Ag, Cu, Zn and Pb grades. The AuEq calculation takes into account the following metal prices: Au US\$1325/oz, Ag US\$19/oz, Cu US\$2.15/lb, Zn US\$1.05/lb and Pb US\$0.90/lb.

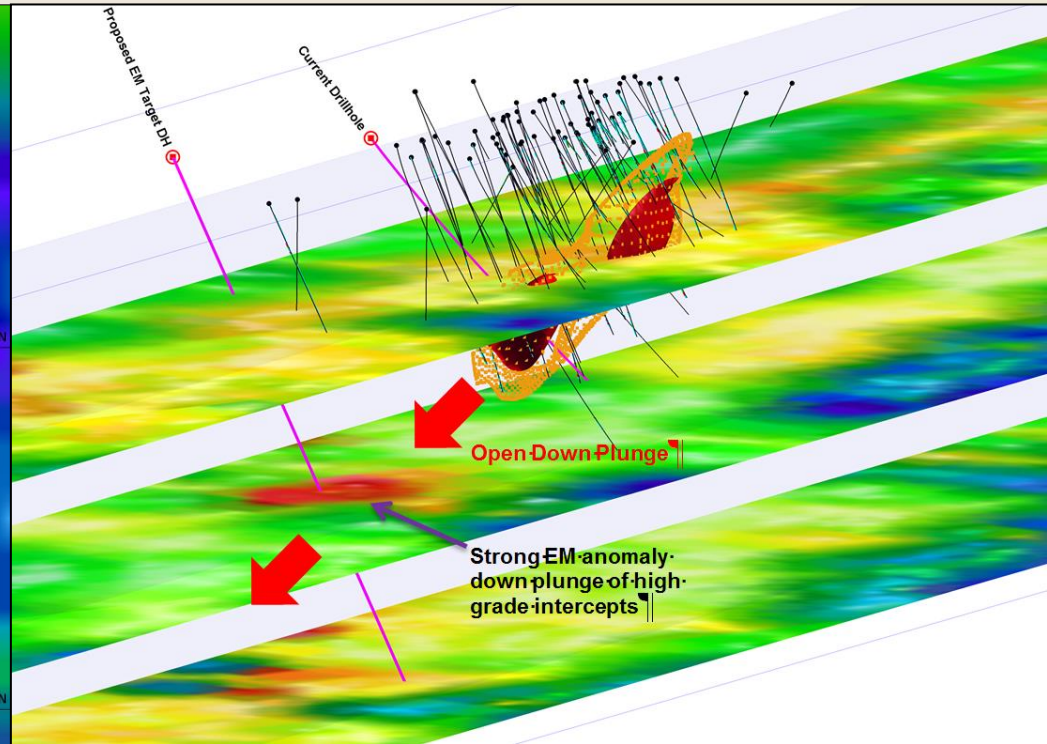


# Overflow VTEM Conductivity Target : Proposed Diamond Drilling



Overflow Prospect plan showing Au-Ag-Pb-Zn-Cu shell outlines (>0.27g/t, >6g/t, >1000ppm, >1500ppm, >250ppm respectively), historic drilling (traces coloured by Au and Cu grades) and planned diamond drilling (magenta lines) over -350m VTEM conductivity anomaly.

Ref. Alchemy Resources ASX Announcement 31 Jan 2017



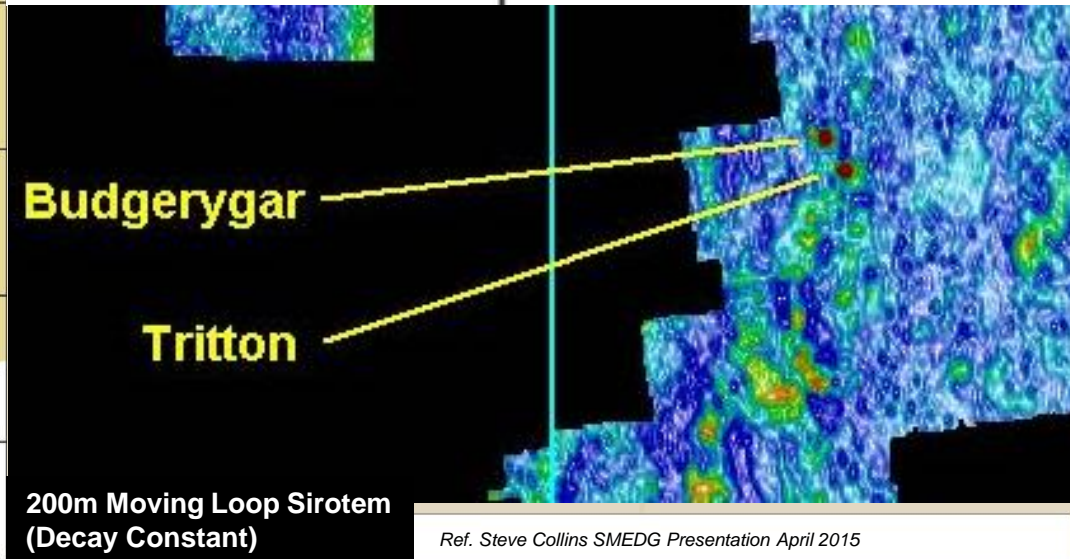
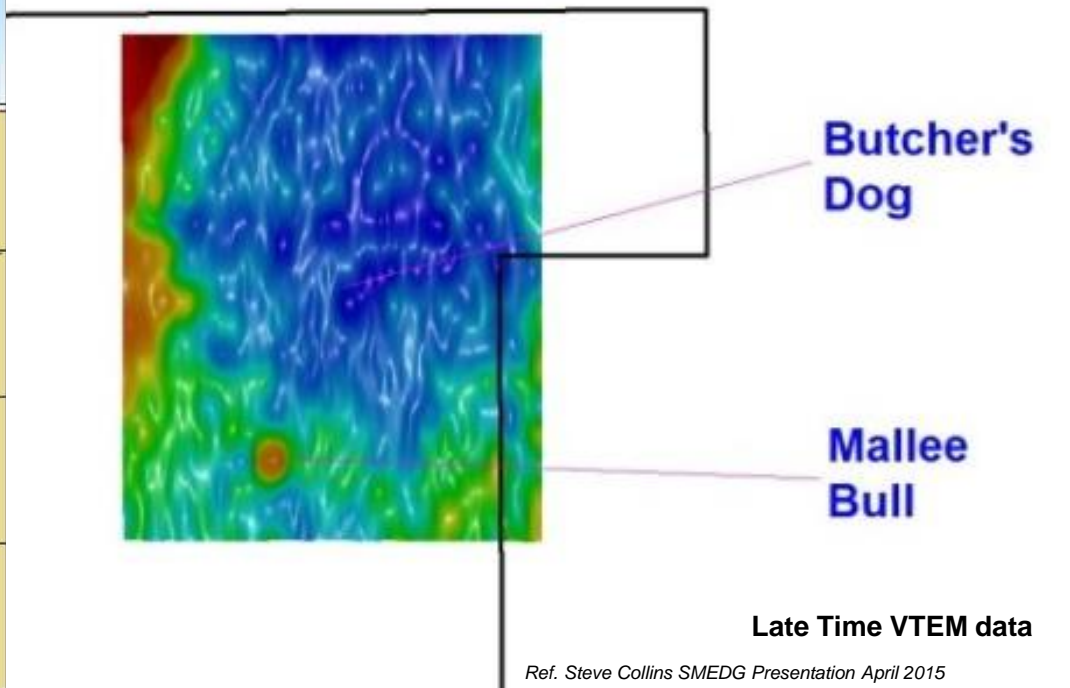
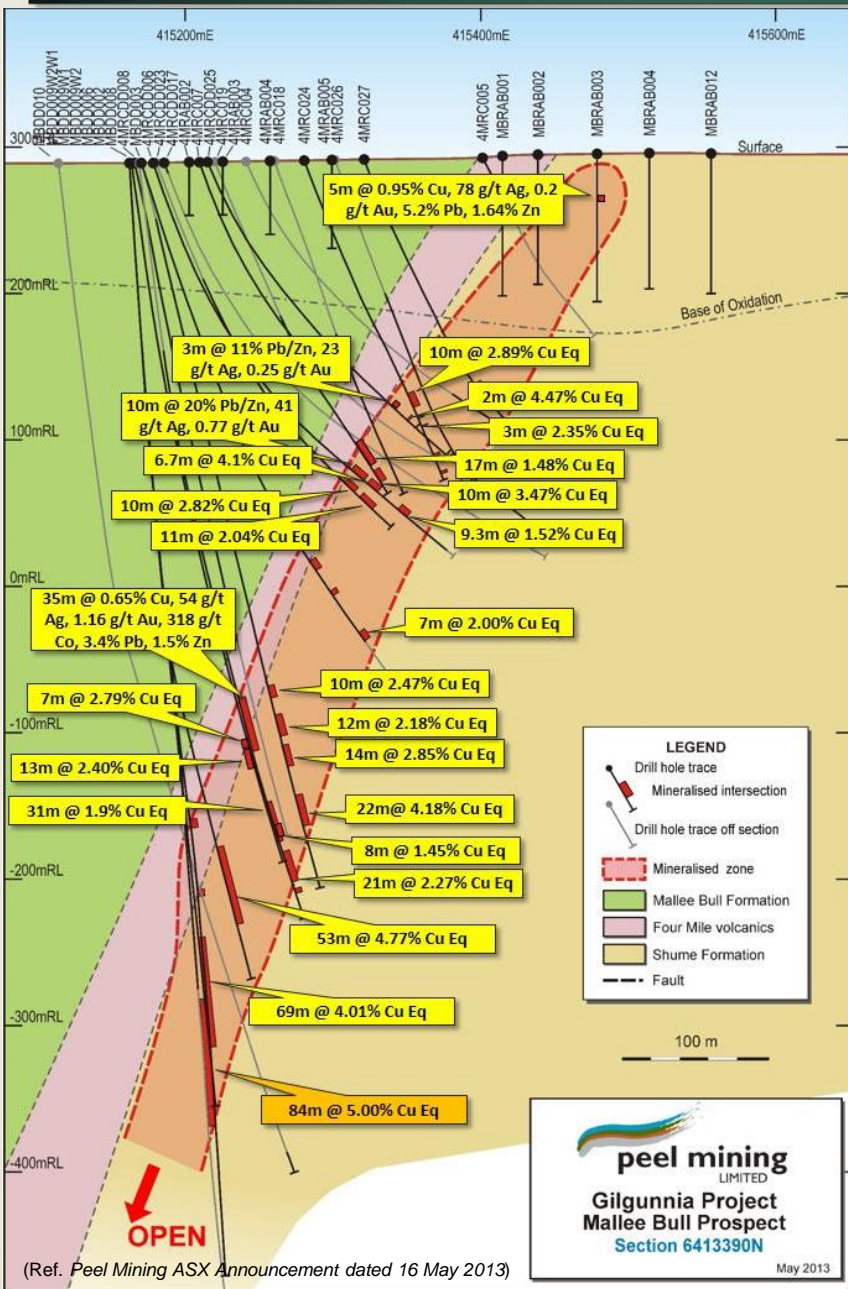
Overflow Prospect 3D view looking down to the showing grade x thickness shells of AuEq intersections (red = >50gxm AuEq, orange dots = >30gxm AuEq), historic drilling (traces coloured by Au and Cu grades), planned diamond drilling (magenta lines) over VTEM conductivity slices (150m, 350m and 550m below surface).

Ref. Alchemy Resources ASX Announcement 9 Feb 2017

Downhole EM of current hole and geophysical modelling planned to refine drill target



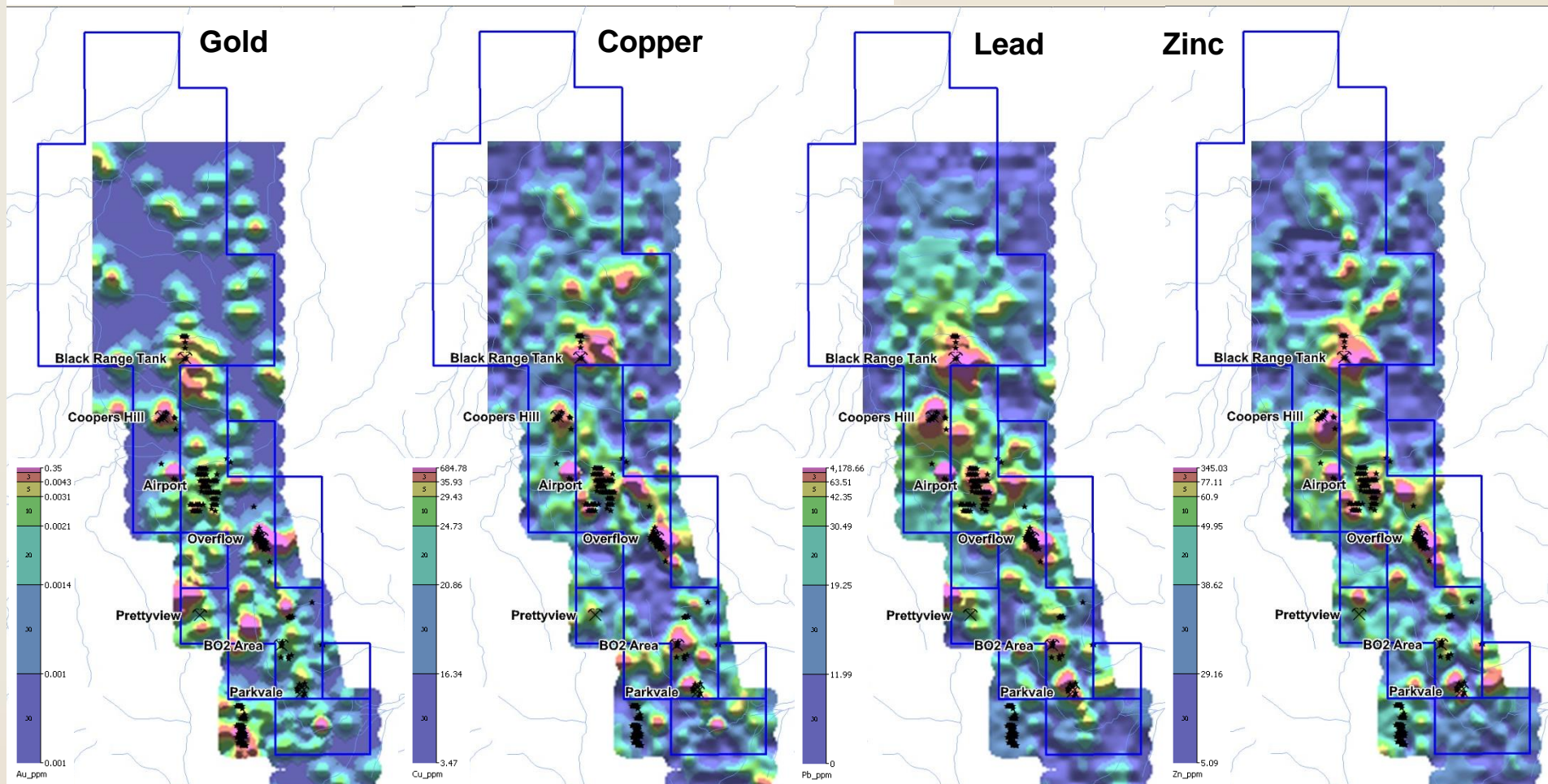
# Overflow EM Target – similar to Mallee Bull and Tritton EM anomalies



# Overflow Project Area – “Polymetallic” soil anomalies

- Numerous “polymetallic” soil anomalies sparsely drill tested
- Black Range Tank Prospect - largest multi-element soil anomaly

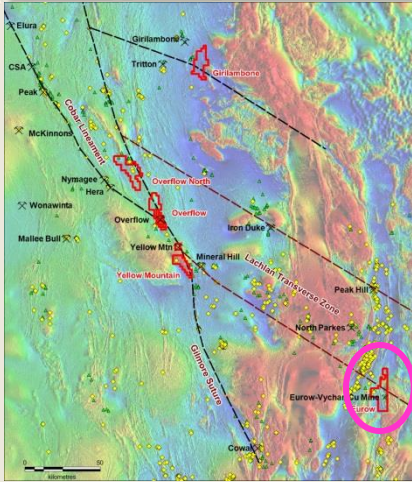
## Historic drilling over historic soil sampling\* assay imagery





# Eurow Project – Porphyry Copper and Epithermal Mineralisation Styles

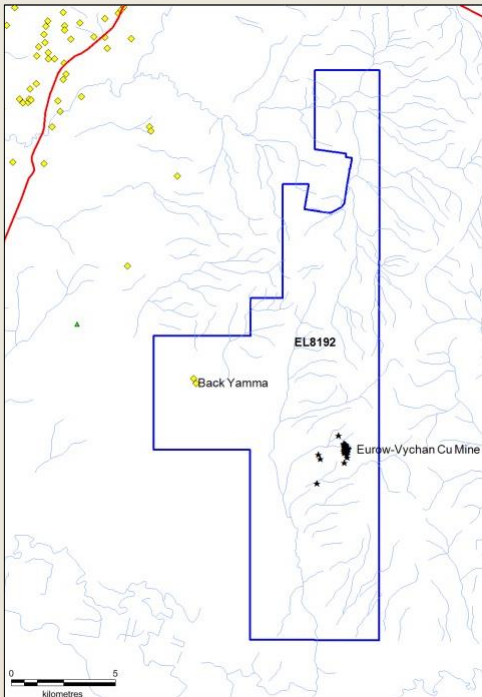
- 34km from North Parkes Mine
- Eurow-Vychan Cu-Au mineralisation open in all directions



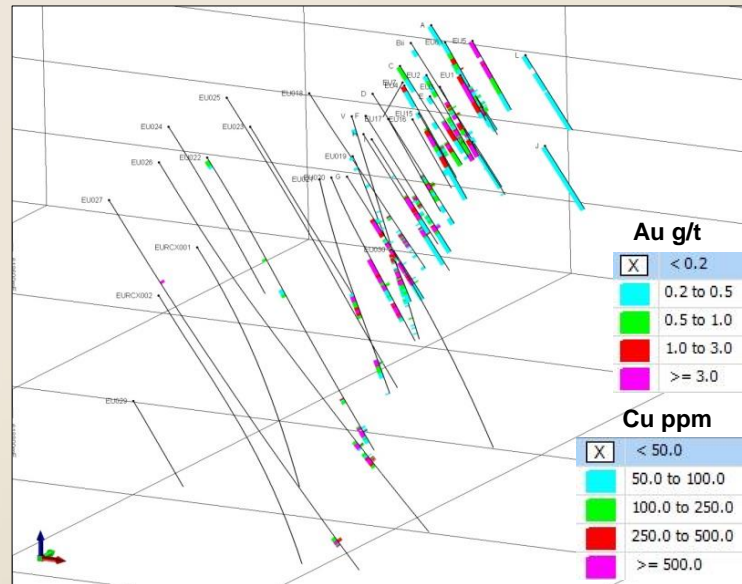
## Eurow Historic Drilling Intercepts

- 8m @ 2.95% Cu, 0.85g/t Au from 47m (Eu4)
- 5m @ 1.83% Cu, 1.30g/t Au from 77m (Eu\_H)
- 3m @ 3.99% Cu, 1.25g/t Au from 73m (Eu\_D)
- 2.2m @ 4.65% Cu, 1.78g/t Au from 277.7m (EU027)
- 3m @ 5.32g/t Au, 0.21% Cu from 11m (Eu1)
- 3m @ 3.27g/t Au, 4.40% Cu from 89m (Eu\_F)

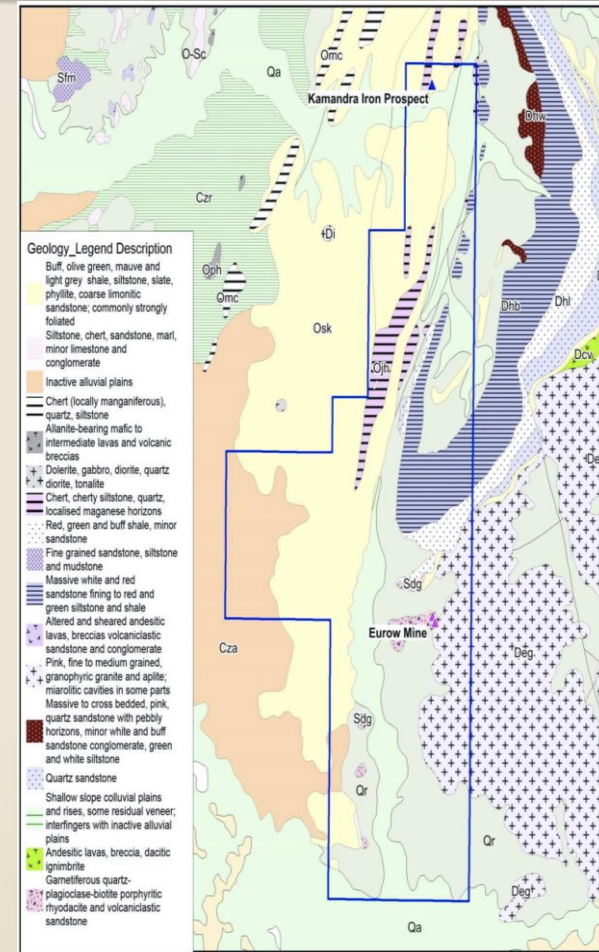
Ref. Alchemy ASX Announcement dated 31 Jan 2017



Limited previous exploration



Eurow Historic Drilling – 3D looking down to the NNW  
Drill traces coloured by Cu (left) and Au (right)

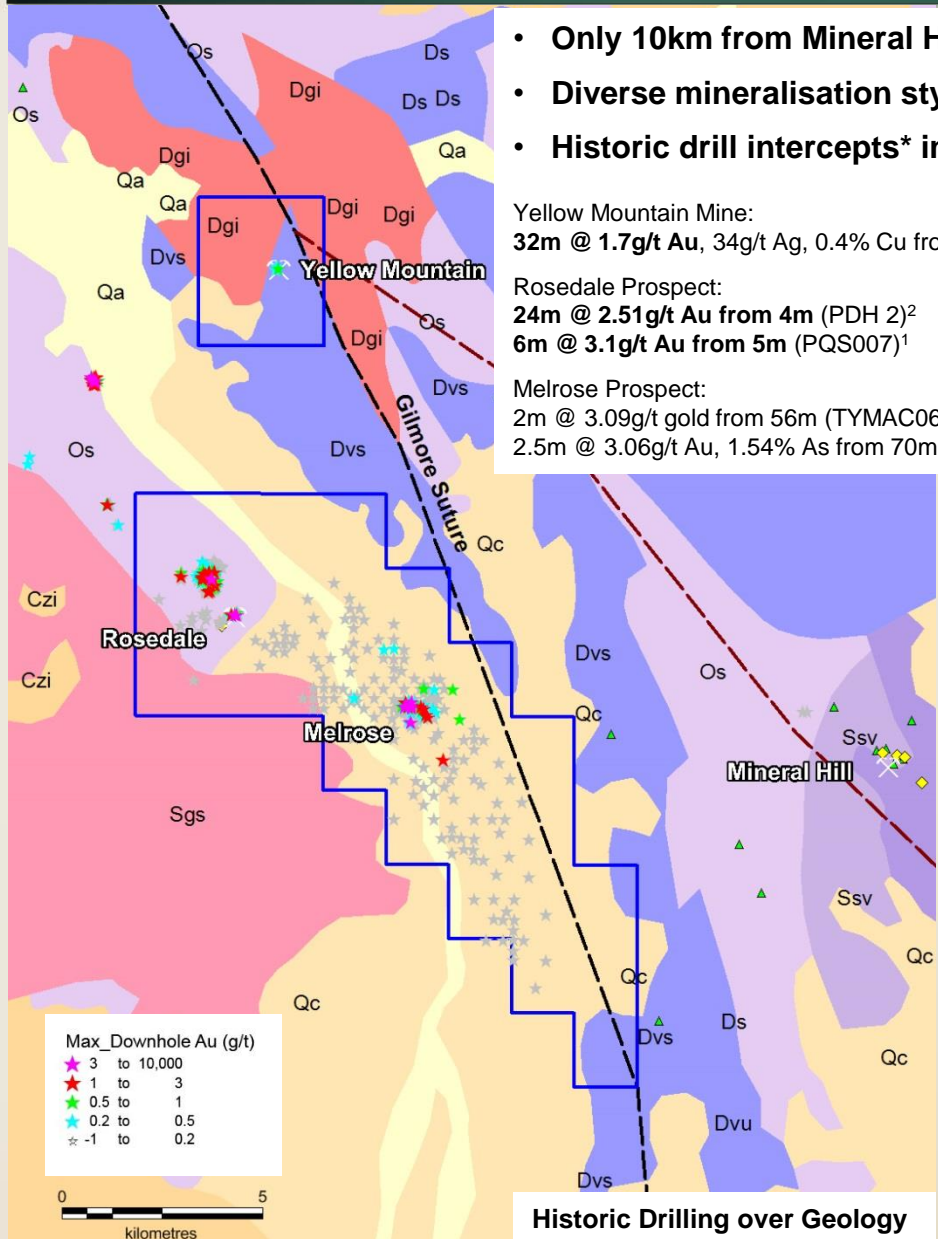


Massive pyrite-pyrrhotite-chalcopyrite mineralisation (highly conductive & magnetic)





# Yellow Mountain Project –Skarn, Porphyry Cu-Au & Cobar-style targets



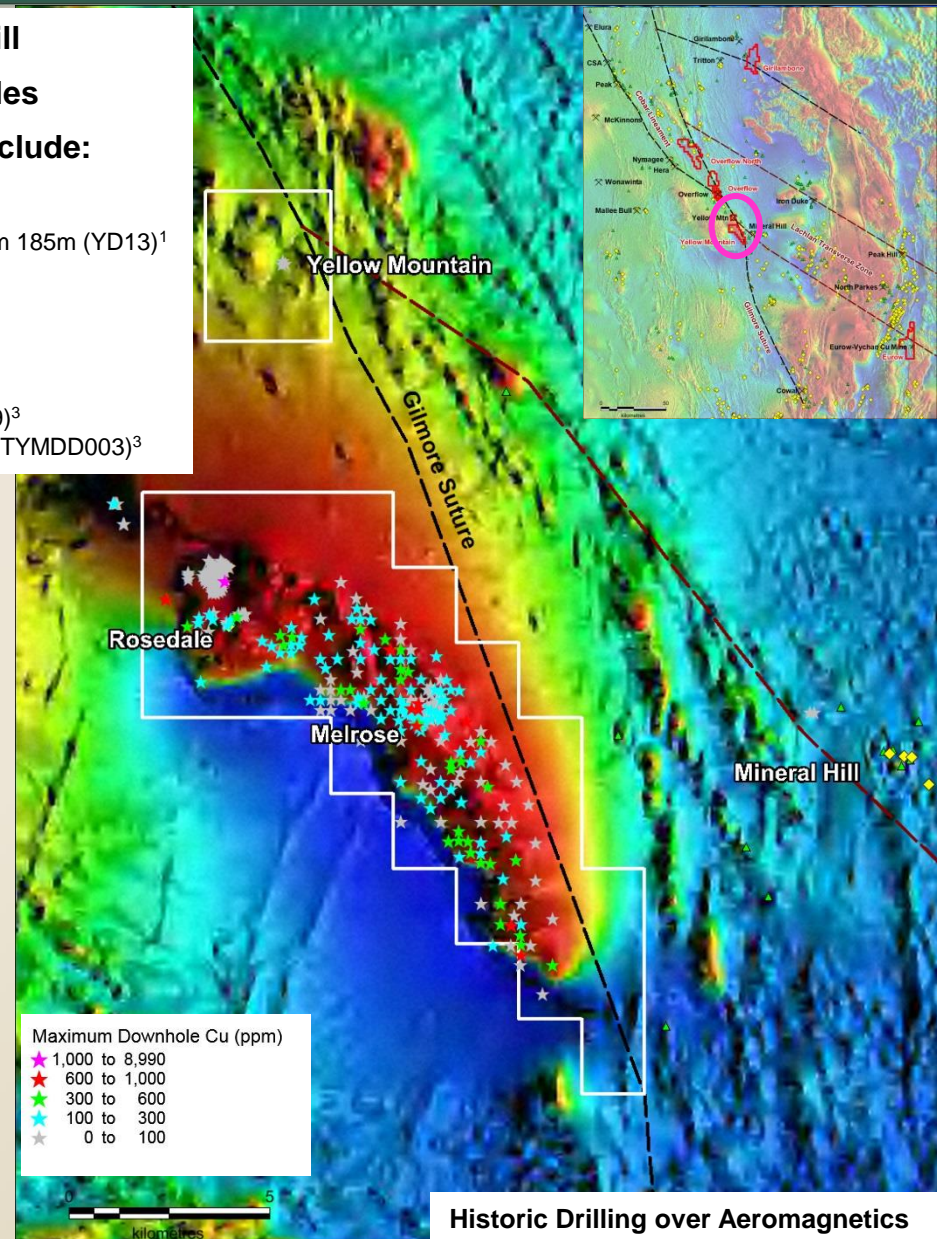
- Only 10km from Mineral Hill
- Diverse mineralisation styles
- Historic drill intercepts\* include:

Yellow Mountain Mine:  
**32m @ 1.7g/t Au, 34g/t Ag, 0.4% Cu from 185m (YD13)<sup>1</sup>**

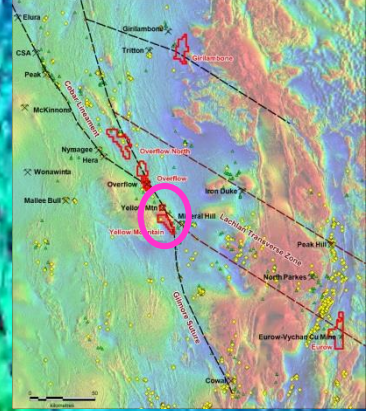
Rosedale Prospect:  
**24m @ 2.51g/t Au from 4m (PDH 2)<sup>2</sup>**  
**6m @ 3.1g/t Au from 5m (PQS007)<sup>1</sup>**

Melrose Prospect:  
**2m @ 3.09g/t gold from 56m (TYMAC069)<sup>3</sup>**  
**2.5m @ 3.06g/t Au, 1.54% As from 70m (TYMDD003)<sup>3</sup>**

**Historic Drilling over Geology**

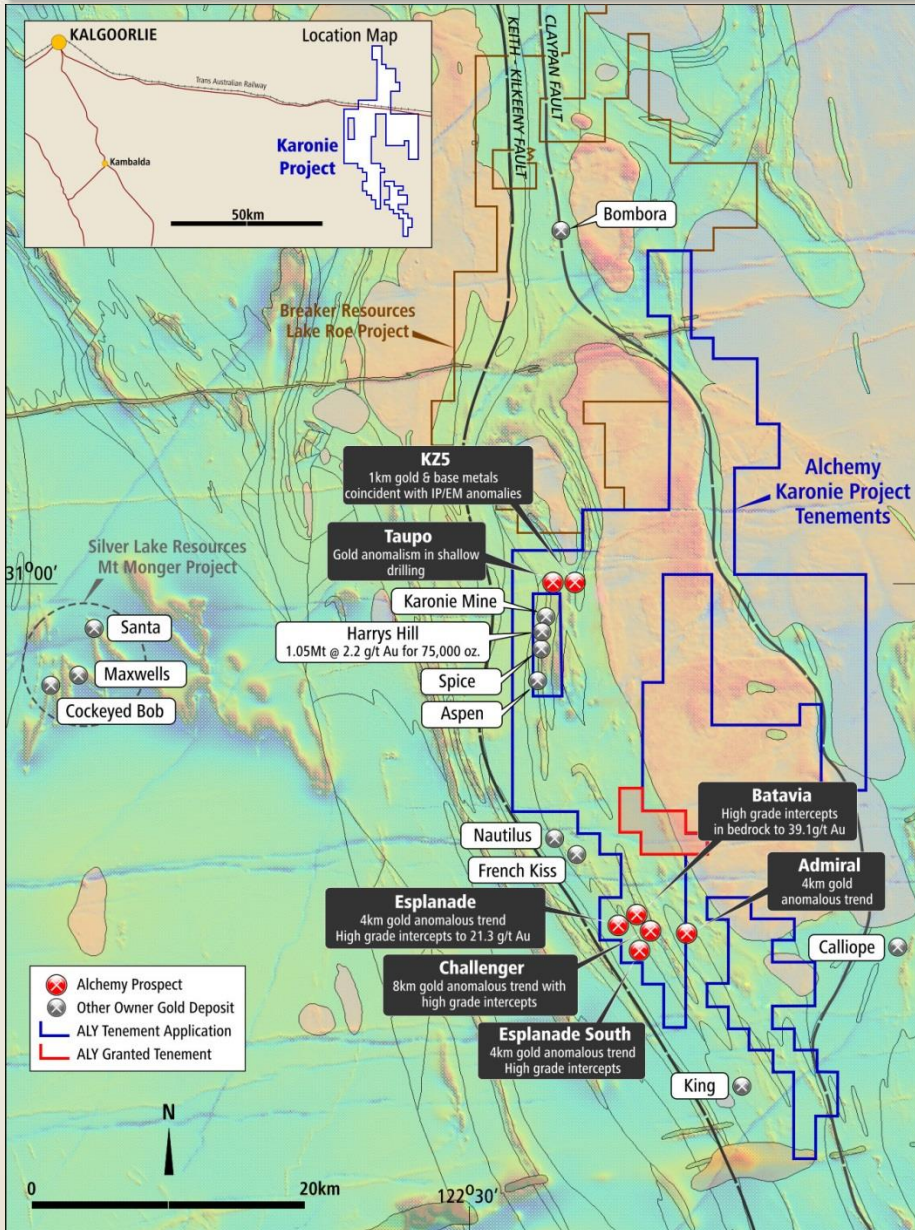


**Historic Drilling over Aeromagnetics**





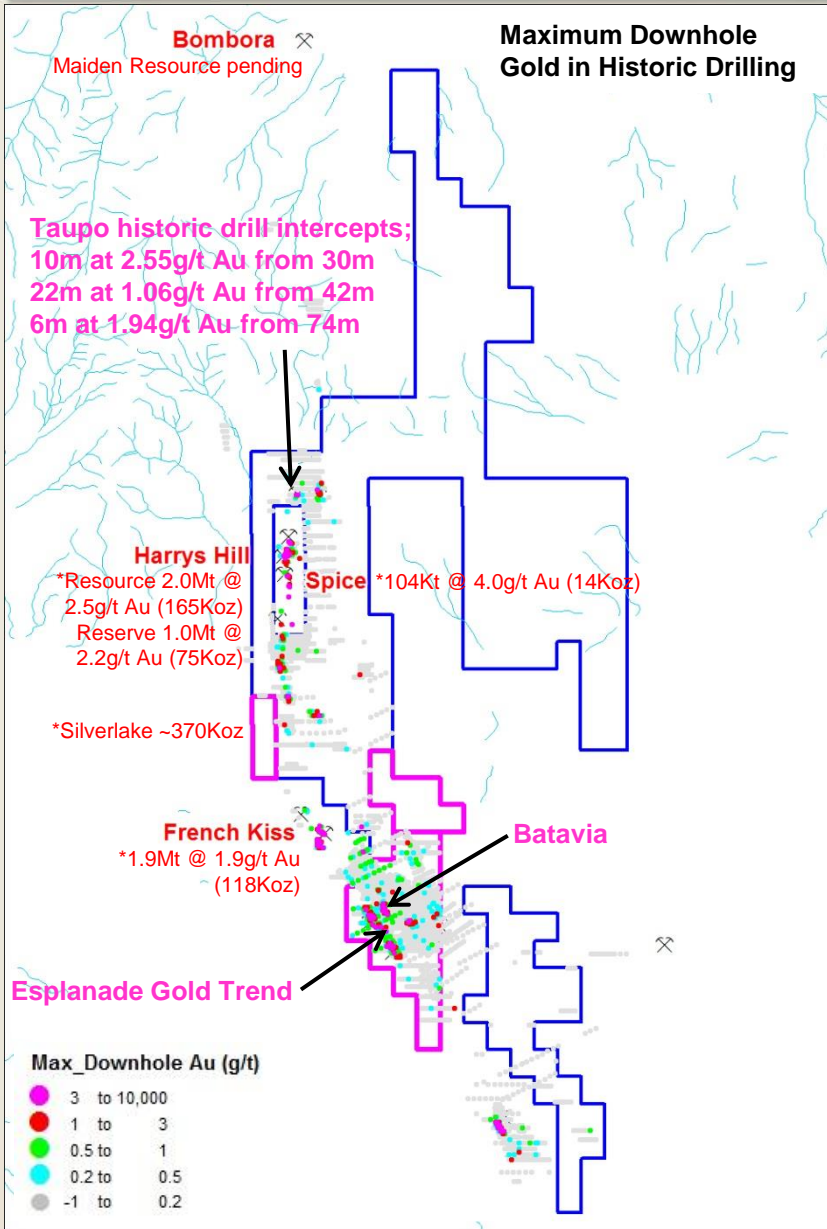
# Western Australia: Karonie Project



- **673 square kilometres** of prospective, recently granted exploration licences or applications
- **Quality geological setting** – greenstones containing craton scale and fertile secondary structures (Keith Kilkenny and Claypan Faults) and proximal to internal granites
- **Immediately south of Breaker Resources (BRB:ASX) Lake Roe Project (Bombora gold deposit)**
- Northern and southern **strike extensions of ~370Koz Au\*** reserves and resources owned by Silver Lake Resources (SLR:ASX)
- Within 50km of Silver Lake's Mt Monger / Randalls processing plant

\* Ref. Silver Lake website 2016 resources and reserves statement

# Karonie Project

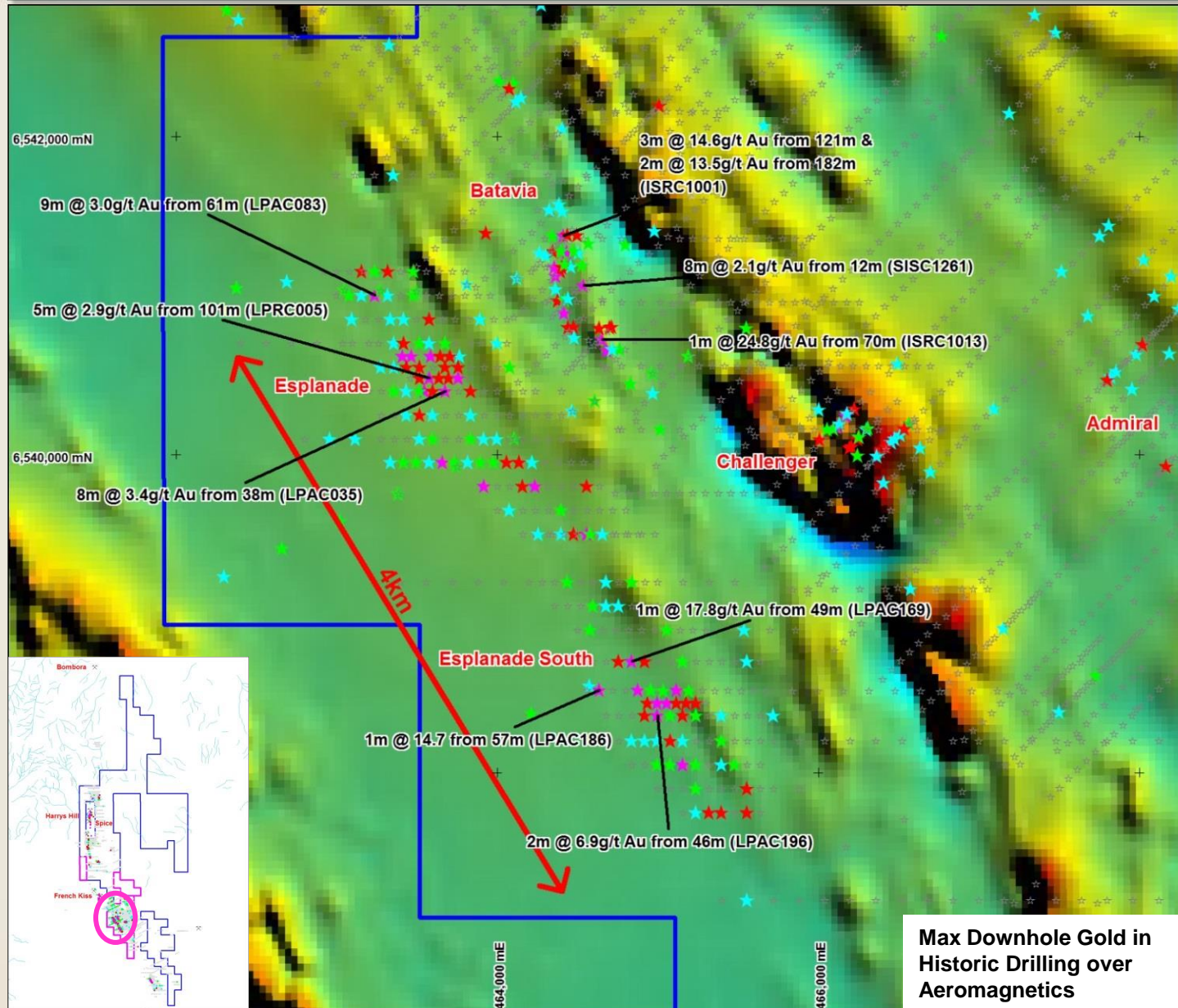


- Along strike of Harry's Hill, French Kiss and Spice reserves and resources (370,000oz @ 2.24g/t Au\*)
- Significant amount of historical **drilling data with high-grade gold intercepts** in bedrock
- Lithological, structural and geochemical interpretations required prior to drill targeting

\* Ref. Silver Lake website 2016 resources and reserves statement



# Karonie Project : Southern Prospects



**Esplanade** historic drill intercepts include:

**9m @ 3.0g/t Au** from 61m (LPAC083)

**8m @ 3.4g/t Au** from 38m (LPAC035)

**Batavia** historic drill intercepts include:

**3m @ 14.6g/t Au** from 121m (ISRC1001)

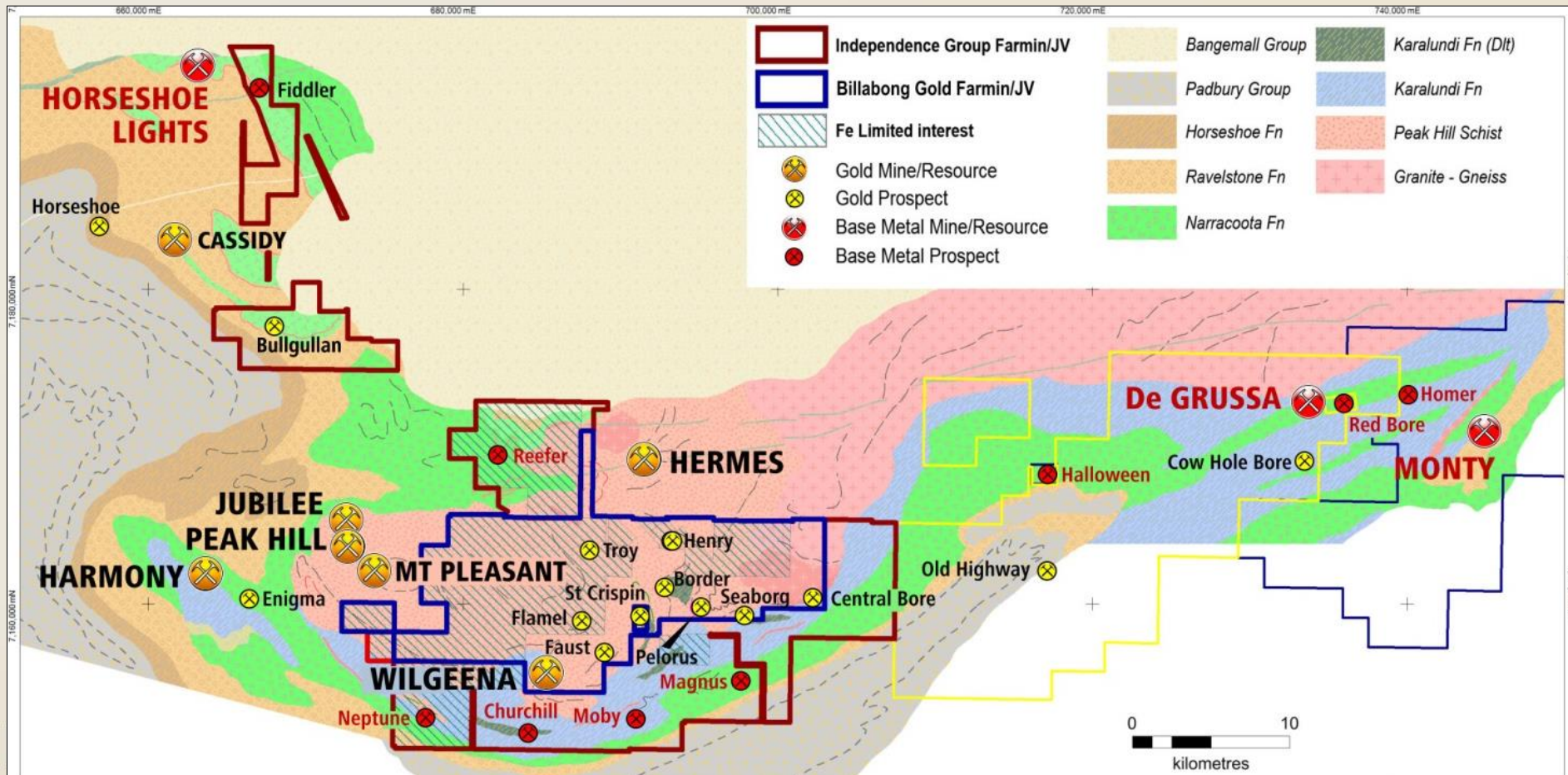
**1m @ 24.8g/t Au** from 70m (ISRC1013)



# Bryah Basin Project (527km<sup>2</sup>) – IGO and Billabong JV's

PROJECT ANNUAL  
MINIMUM EXPENDITURE  
\$1,600,000

- **Independence Group** NL letter agreement to earn a **70-80% interest** by funding **\$6,000,000** of exploration expenditure **within 5 years** (effective date 10<sup>th</sup> April 2014). Remaining spend = **\$2.7M over 3 years**
- **Billabong Gold** PL to earn a **70% interest** in Jackson Minerals tenements and an **80% interest** in Alchemy tenements by funding **\$1,200,000** of exploration **within 3 years** (effective date 23 Feb 2015). Remaining spend = **\$560K over 1 year**
- Billabong Gold (Superior Gold Inc. via TSX Venture IPO) immediate focus on drilling at the Wilgeena deposit
- Alchemy retains a **1% NSR over 20,000oz** gold recovered from the Hermes Deposit (3.3Mt @ 2.0g/t for 212,000oz Au) once production reaches 70,000oz (ref. Alchemy ASX announcement dated 24 February 2015)





# Summary

- **Highly experienced board**
- **Strong major shareholder support**
- **Cobar Basin / Lachlan projects have the potential for a “company maker” deposit**
- **Karonie Project has excellent potential for outlining gold resources - close to existing resources**
- **Independence Group and Billabong Gold funding base metal and gold exploration via the Bryah Basin Joint Ventures**

# Disclaimer and Competent Person's Statements

## Disclaimer

This presentation has been prepared by Alchemy Resources Limited (**Alchemy** or the **Company**). This document contains background information about Alchemy current at the date of this presentation. The presentation is in summary form and does not purport to be all inclusive or complete. Recipients should conduct their own investigations and perform their own analysis in order to satisfy themselves as to the accuracy and completeness of the information, statements and opinions contained in this presentation.

This presentation is for information purposes only. Neither this presentation nor the information in it constitutes an offer, invitation, solicitation or recommendation in relation to the purchase or sale of shares in any jurisdiction. This presentation may not be distributed in any jurisdiction except in accordance with the legal requirements applicable in such jurisdictions. Recipients should inform themselves of the restrictions that apply in their own jurisdiction. A failure to do so may result in a violation of securities laws in such a jurisdiction.

This presentation does not constitute investment advice and has been prepared without taking into account the recipient's investment objectives, financial circumstances or particular needs and the opinions and recommendations in this presentation are not intended to represent recommendations of particular investments to particular persons. Recipients should seek professional advice when deciding if an investment is appropriate. All securities transactions involve risks, which include (among others) the risk of adverse or unanticipated market, financial or political developments.

To the fullest extent permitted by law, Alchemy and its officers, employees, agents and advisers do not make any representation or warranty, express or implied, as to the currency, accuracy, reliability or completeness of any information, statements, opinions, estimates, forecasts or other representations contained in this presentation. No responsibility for any errors or omissions from this presentation arising out of negligence or otherwise is accepted.

This presentation may include forward looking statements. Forward looking statements are only predictions and are subject to risks, uncertainties and assumptions which are outside the control of Alchemy. Actual values, results or events may be materially different to those expressed or implied in this presentation. Given these uncertainties, recipients are cautioned not to place reliance on forward looking statements. Any forward looking statements in this presentation speak only at the date of issue of this presentation. Subject to any continuing obligations under any applicable law and the ASX Listing Rules, Alchemy does not undertake any obligation to update or revise any information or any of the forward looking statements in this presentation of any changes in events, conditions or circumstances on which any such forward looking statement is based.

## Competent Person's Statement

*The information in this report that relates to Exploration Results is based on information compiled by Mr Leigh Ryan, who is the Managing Director of Alchemy Resources Limited. Mr Ryan is a Fellow of the Australian Institute of Geoscientists and has sufficient experience of relevance to the styles of mineralisation and the types of deposits under consideration, and to the activities undertaken, to qualify as a Competent Person as defined in the 2012 Edition of the Joint Ore Reserves Committee 'Australasian Code for Reporting of Exploration Results, Mineral Resources and Ore Reserves' ('JORC Code 2012'). Mr Ryan consents to the inclusion in this report of the matters based on his information in the form and context in which it appears.*

*The information in this report that relates to Mineral Resources at the Wilgeena Gold Deposit is based on information compiled by Simon Coxhell, who is an employee of CoxsRocks Pty Ltd, a consultant to Alchemy Resources Limited. Mr Coxhell is a Member of the Australian Institute of Geoscientists and the Australasian Institute of Mining and Metallurgy and has sufficient experience of relevance to the styles of mineralisation and the types of deposit under consideration, and to the activities undertaken, to qualify as a Competent Person as defined in the 2004 Edition of the Joint Ore Reserves Committee 'Australasian Code for Reporting of Exploration Results, Mineral Resource and Ore Reserves' ('JORC Code 2004'). Mr Coxhell consents to the inclusion in this report of the matters based on his information in the form and context in which it appears.*

*Alchemy confirms that the Indicated Mineral Resource at the Wilgeena Gold Deposit was prepared and first disclosed under JORC Code 2004. These have not been updated since to comply with JORC Code 2012 on the basis that the information has not materially changed since it was last reported on 22 October 2012. Alchemy is not aware of any new information or data that materially affects the information included in that announcement and that all material assumptions and technical parameters underpinning the estimates in that announcement continue to apply and have not materially changed.*