



**Investor Presentation**  
**May 2018**

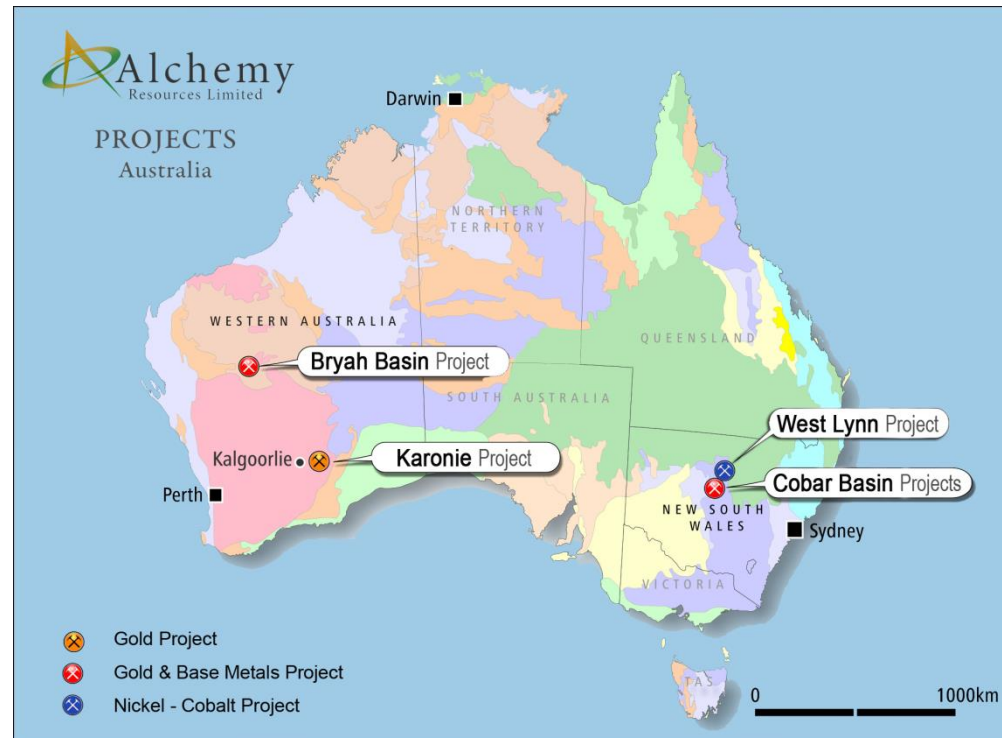


# Building a diversified metals business

Our aim is to **discover and develop nickel-cobalt, base metal and/or gold deposits** through systematic, targeted exploration:

- **West Lynn Project** (NSW) – Significant Ni-Co Exploration Target (100km<sup>2</sup>)
- **Cobar Basin** (NSW) – High-Grade Au and Base Metal Targets (674km<sup>2</sup>)
- **Karonie Gold Project** (WA) – Eastern Goldfields High-grade Au (782km<sup>2</sup>)
- **Bryah Basin** (WA) – Gold & Base Metal JV funded by Independence and Superior Gold (527km<sup>2</sup>)

- **Experienced Board**
- **Strong major Shareholder support**
- **\$4.9M market cap underpinned by:**
  - **87,000oz Au Wilgeena Resource**
  - **Hermes gold royalty on 20,000oz**
  - **\$1.1M cash at hand**
  - **\$2.2M remaining Bryah Basin JV spend**



# Corporate Overview

## Capital Structure

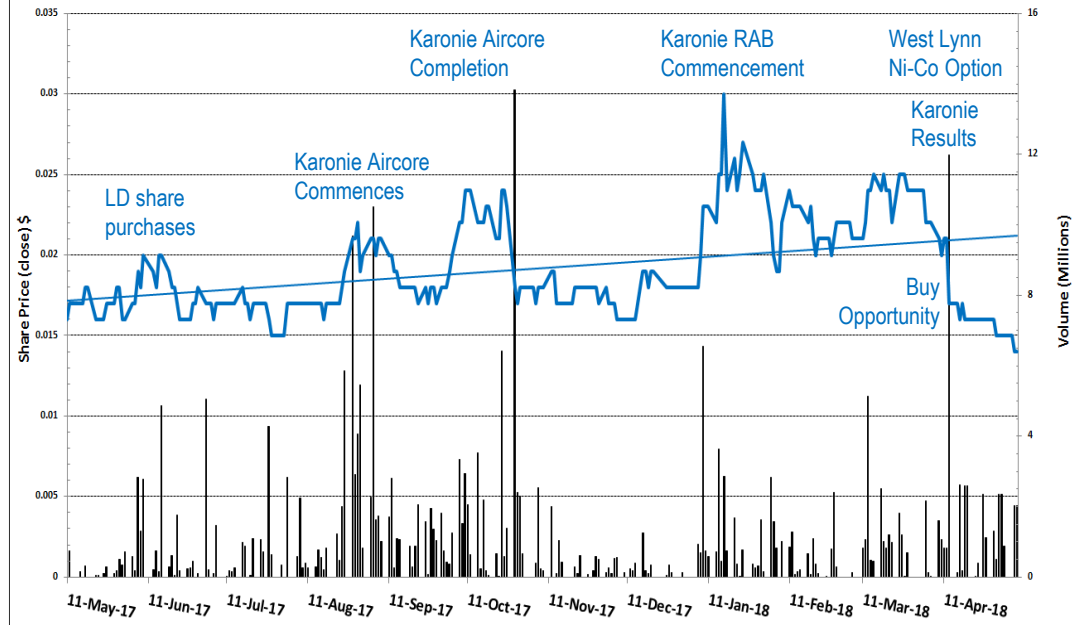
Listed on ASX	November 2007
Shares on Issue (10 May 2018)	352.3m
Options - unlisted	29.5m
Share Price (10 May 2018)	1.4c
Market Cap	\$4.9m
Cash (31 March 2018)	\$1.1m

## Shareholders / No of Shares

(30 April 2018)

Northern Star Resources	50.0m	(14.2%)
Lindsay Dudfield	19.98m	(5.7%)
Jindalee Resources	17.47m	(5.0%)
Top 20	51.1%	
Top 40	61.2%	
No of Shareholders	1,363	

Alchemy Resources Limited: 12 month Share Price / Volume



## Board & Management

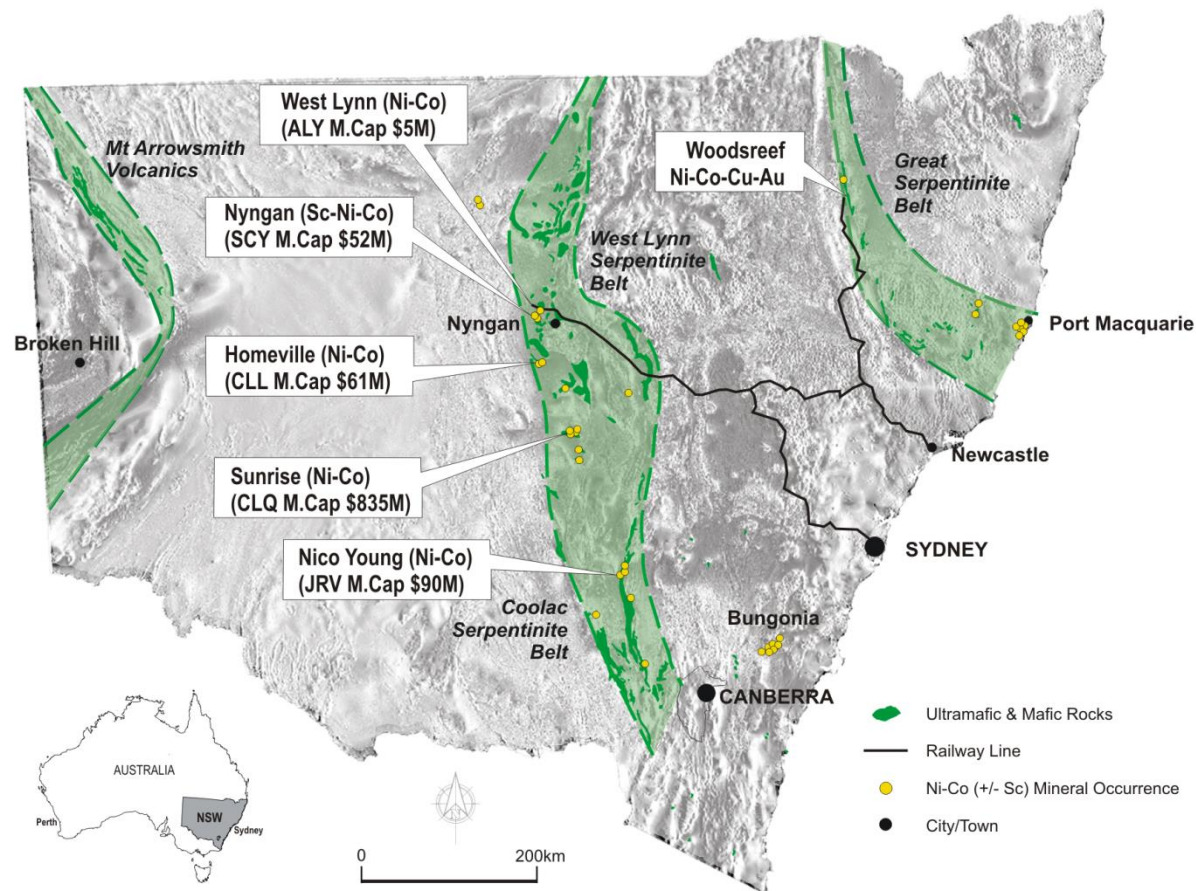
Lindsay Dudfield	Non Executive Chairman
Leigh Ryan	Managing Director
Liza Carpene	Non-Executive Director
Anthony Ho	Non-Executive Director
Bernard Crawford	Company Secretary / CFO



# NSW Ni-Co: West Lynn and Woodsreef Projects (381km<sup>2</sup>)

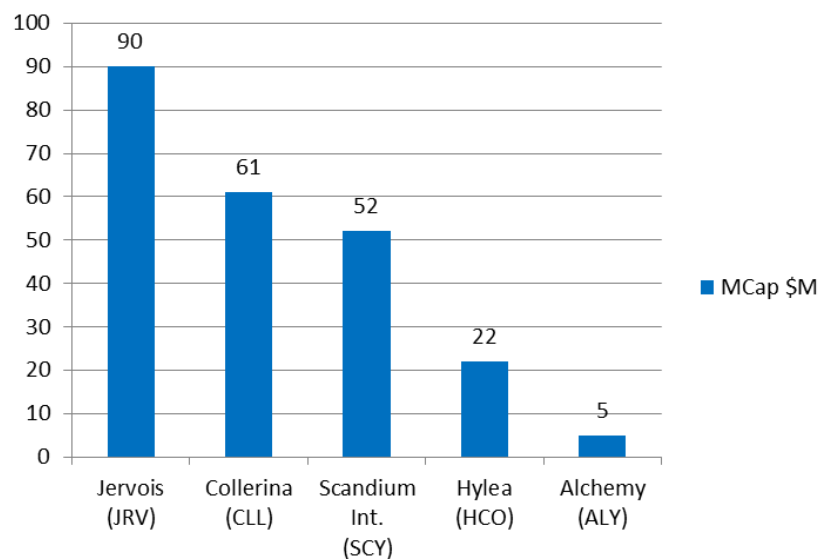
- World-class Ni-Co-Sc endowed mafic belt
- West Lynn and Woodsreef Ni-Co Projects added into the existing Heron Resources Ltd (ASX: HRR) Farm-In Agreement
- Farm-In Agreement enables Alchemy to earn up to an 80% interest in the licences by initially spending \$1.5M over 3 years
- West Lynn Exploration Target based on previous Jervois JORC 2004 resource & in-house estimate:  
**15→30Mt @ 0.7→0.9% Ni, 0.05→0.07% Co**

*Note: The potential quantity and grade of the exploration target is conceptual in nature and there has been insufficient exploration to estimate a mineral resource and it is uncertain if further exploration will result in the estimation of a mineral resource.*



# Market Cap Comparison & West Lynn Activity Timeline

**Market Capitalisation of NSW Ni-Co-Sc Peers**



- West Lynn Project value not yet recognised

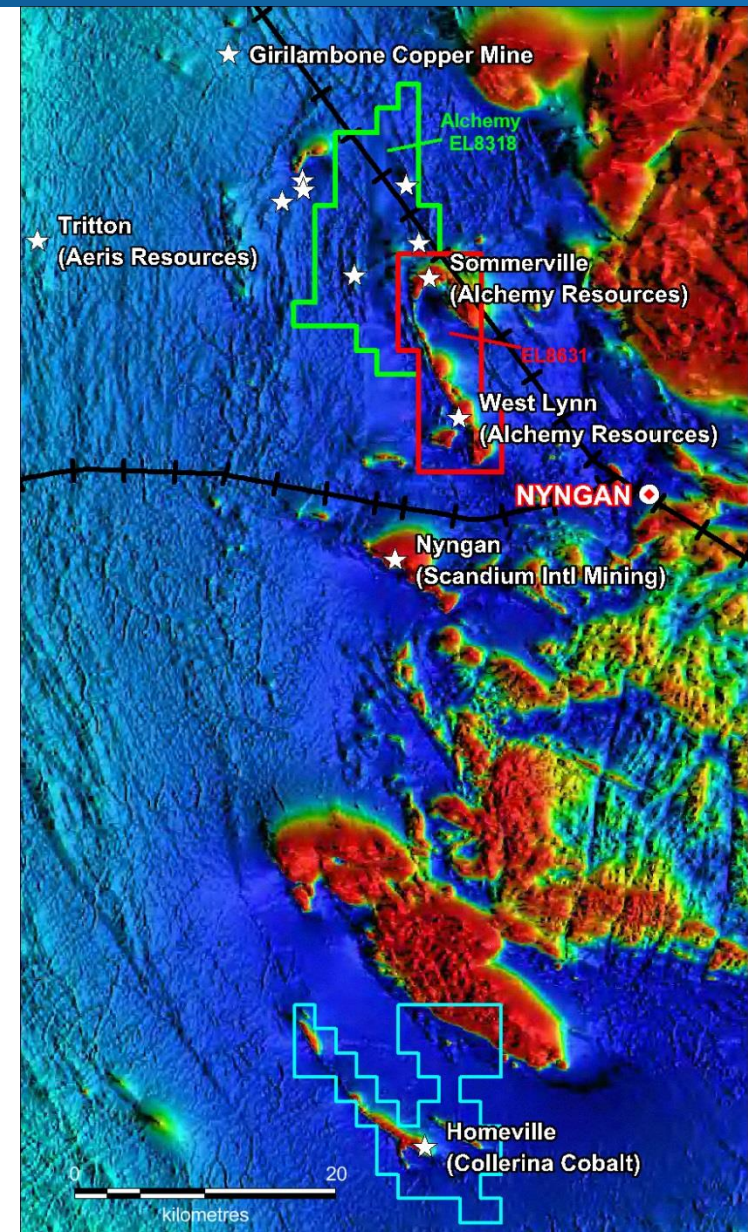
Activity Timeline & Newsflow 2018	May-18	Jun-18	Jul-18	Aug-18	Sep-18	Oct-18	Nov-18	Dec-18
Pulp Submission	✓							
Pulp Assays		✓						
Resource Drilling			✓					
Drilling Assays				✓				
JORC 2012 Resource Report					✓			
Extension drilling						✓		
Drilling Assays							✓	
Revised JORC 2012 Resource Report								✓

Company	Key project	Resource	MCap \$M*	Cut-off	Source
Alchemy Resources Ltd (ALY)	West Lynn	15→30Mt @ 0.05→0.07% Co, 0.7→0.9% Ni (Expl Target)	5	0.04% Co	In house resource modelling
Hylea Metals Ltd (HCO)	Hylea	N/A	22		Investor Presentation (Mar 2018)
Scandium International Mining Corp (SCY)	Nyngan	16.9Mt @ 235ppm Sc (M & Ind.)	52	100ppm Sc	NI 43-101 Feasibility Study (May 2016)
Collerina Cobalt Ltd (CLL)	Homeville	16.3Mt @ 0.05% Co, 0.93% Ni, 19% Fe, 3.1% Al (Ind. & Inf.)	61	0.7% Ni	Investor Presentation (March 2018)
Jervois Mining Ltd (JRV)	Nico Young	42.5Mt @ 0.09% Co, 0.80% Ni (Inf.)	90	1% Ni	Jervois website (26/3/2018)
Clean TeQ Holdings Ltd (CLQ)	Sunrise	101Mt @ 0.13% Co, 0.59% Ni (M, Ind. & Inf.)	835	0.06% Co	Investor Presentation (Feb 2018)

\* closing share price 10/5/18

# West Lynn Ni-Co Project (100km<sup>2</sup>)

- 6km from Nyngan railway line linked to Sydney & Newcastle
- 13km from Nyngan township (power & labour)
- 11km from Scandium International Mining (TSX: SCY - **MCap. \$52M**) Nyngan Sc Project (May 2016 positive NI43-101 Feasibility – 17Mt @ 235ppm Sc)
- Geology, mineralogy and metal content (Ni-Co-Al-Fe) very similar to the Homeville deposit (40km south) held by Collerina Cobalt Limited (ASX: CLL - **MCap. \$61M**)
- Low Fe content → potential elimination of high pressure acid leaching process
- Limited scandium (Sc) assays - pulps from previous drilling have been obtained for selective Sc analysis





# West Lynn / Summervale Prospects – Ni-Co Exploration Potential

- West Lynn Prospect shallow high grade historic intercepts including:

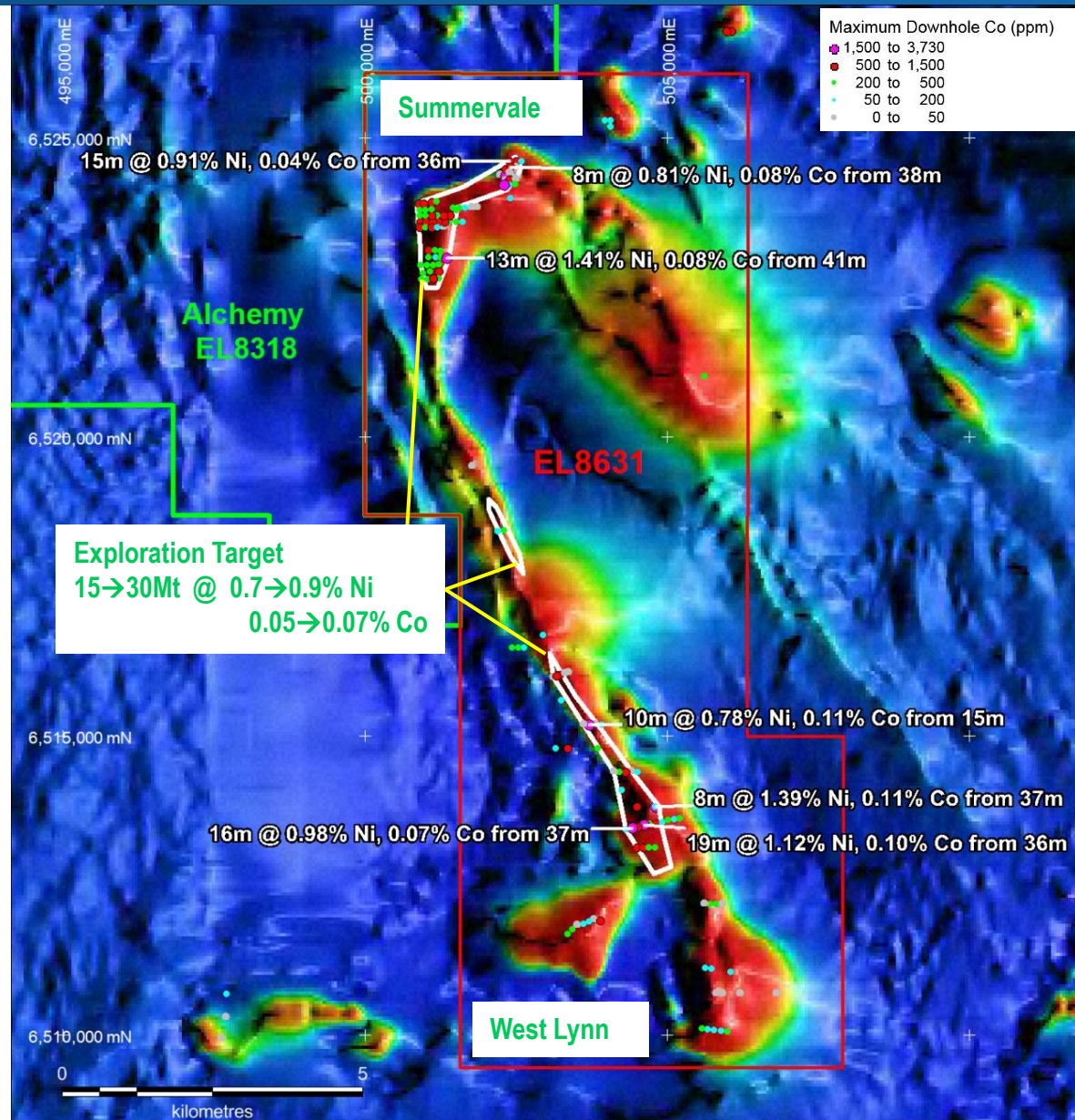
19m @ 1.21% Ni, 0.10% Co from 36m <sup>1)</sup>  
 16m @ 0.98% Ni, 0.07% from 37m <sup>1)</sup>  
 10m @ 0.78% Ni, 0.11% Co from 15m <sup>2)</sup>

- Summervale Prospect shallow high grade historic intercepts including:

13m @ 1.41% Ni, 0.08% Co from 41m <sup>3)</sup>  
 15m @ 0.91% Ni, 0.04% Co from 36m <sup>3)</sup>  
 11m @ 1.02% Ni, 0.04% Co from 27m <sup>3)</sup>

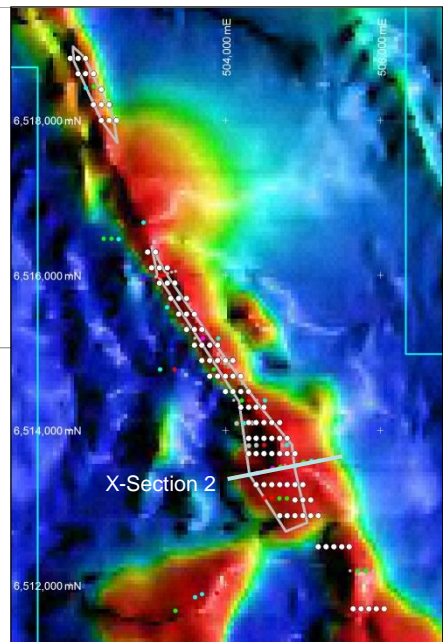
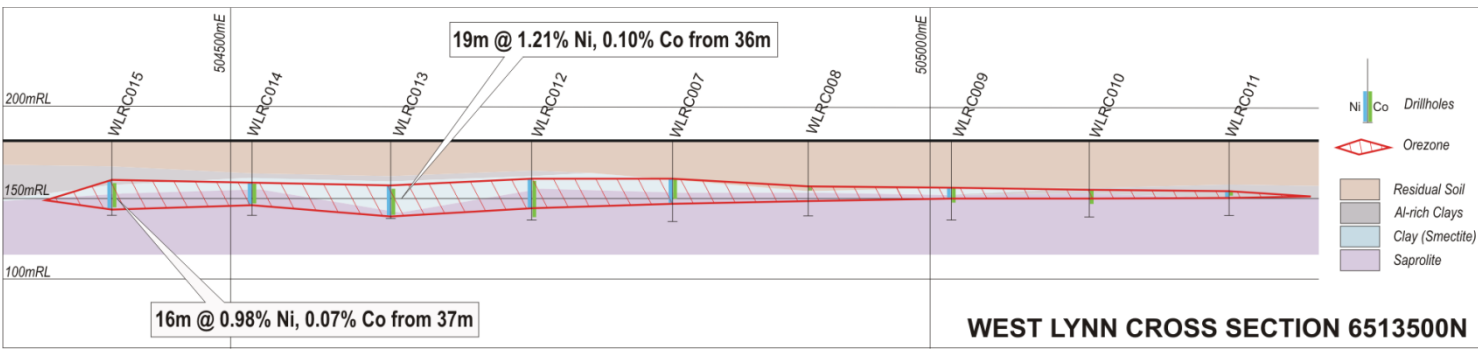
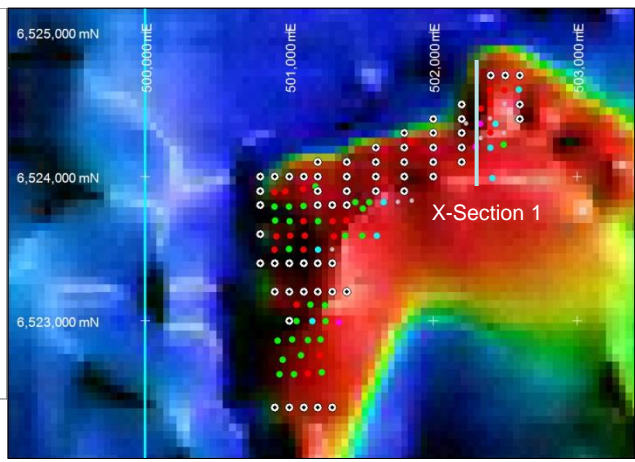
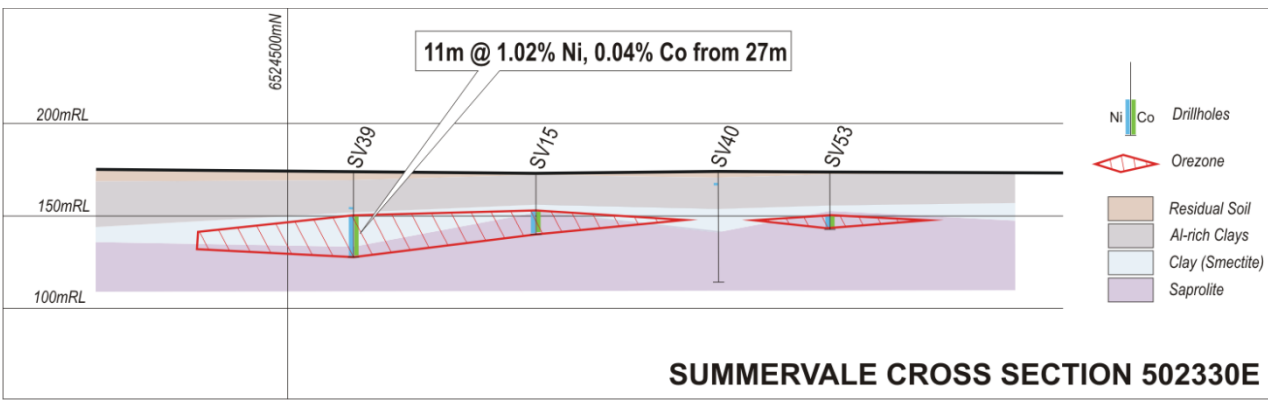
- Ni-Co Exploration Target** based on Alchemy block model using all available drilling information (105 Aircore and 29 RC drill holes totalling 6,300m)

- Potential for expansion of Exploration Target** by drilling untested sections of the 22km long West Lynn Serpentinite related magnetic high



<sup>1)</sup> Refer to Anaconda Nickel Ltd EL5485 Annual Report for period ending 25 May 1999  
<sup>2)</sup> Refer to Jervois Mining Limited Annual Report 2009  
<sup>3)</sup> Refer to Jervois Mining Limited ASX announcement dated 30 July 2012  
 (<https://www.asx.com.au/asxpdf/20120730/pdf/427phm5hgnlbps.pdf>)

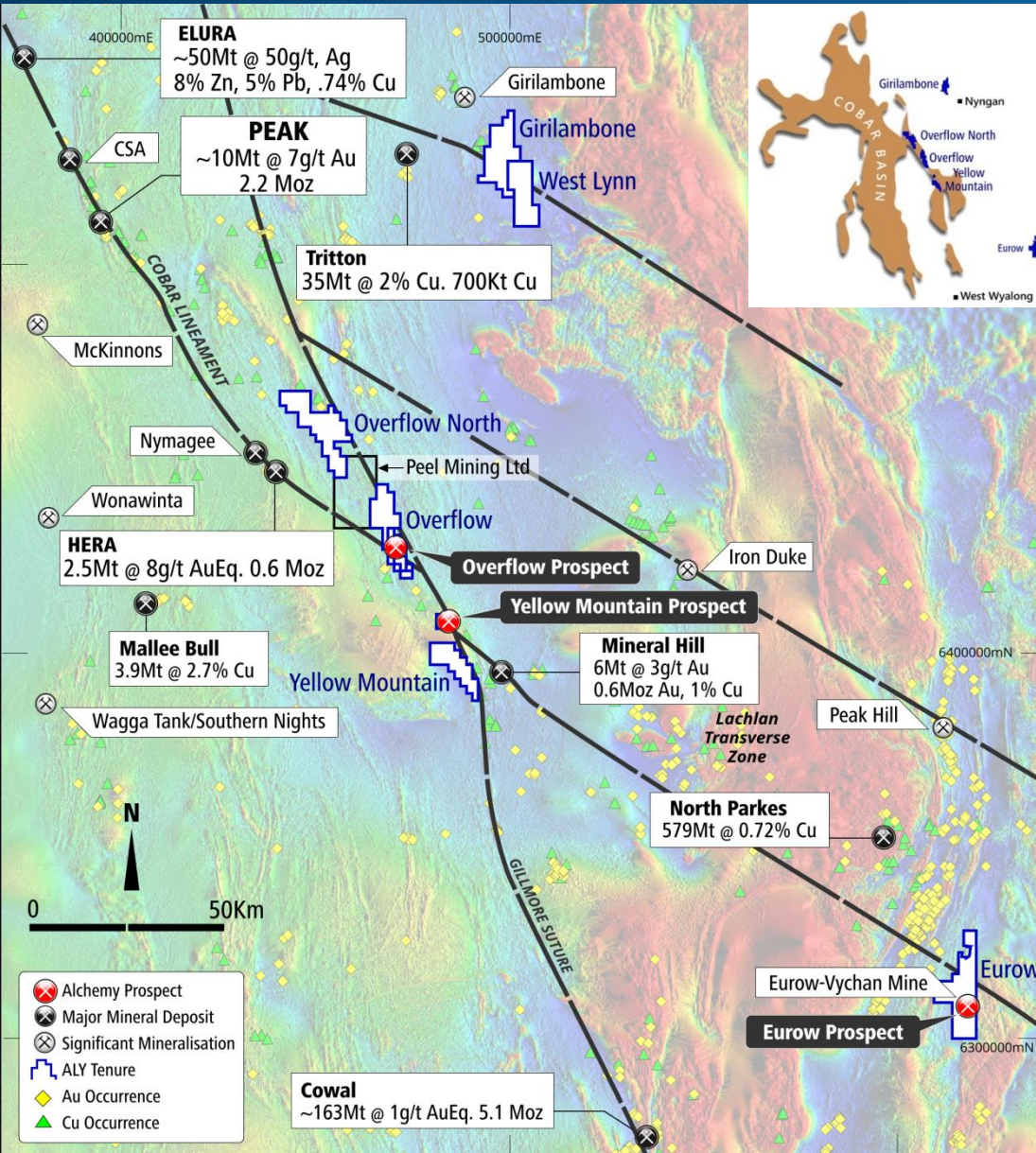
# West Lynn / Summervale Prospects – X-sections and planned resource drilling



- Phase 1 resource drilling



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



- **378km<sup>2</sup> in metal-rich Cobar Basin;** 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 and Yellow Mountain Projects:** located on the Gilmore Suture and Cobar lineaments, along strike of Hera and Mineral Hill
- **Eurow:** Cu-Au targets 34km from North Parkes
- **Girilambone Project:** Tritton style Cu targets
- **Farm-in and JV Agreement** with Heron Resources to earn an 80% interest in all tenements by sole funding \$1.5M on exploration within 3 years (ending 30 May 2021)

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

(Refer to Alchemy Resources ASX announcement dated 29 March 2017)

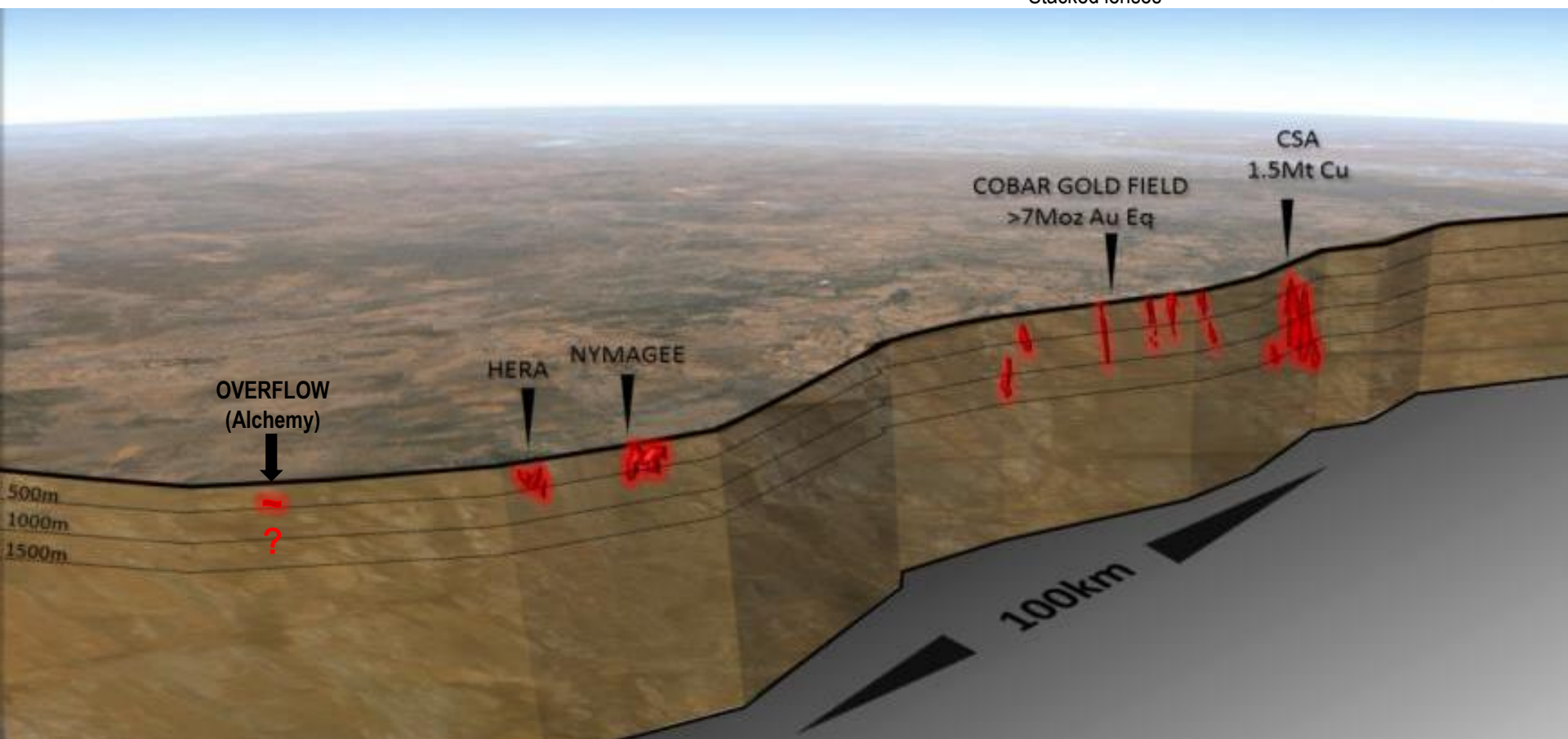
# Hera / Cobar Style Deposits: Polymetallic, small surface area, long legs

- **Overflow is a Hera style target** representing the upper portions of a 'Cobar style' deposit; typified by lead-zinc enriched upper sections transitioning into copper rich lower sections.
- **Cobar and Hera style deposits** have high grades and depth persistence suited to long life underground mining operations.

## Hera / Cobar-style Attribute

- Polymetallic (Ag-Au-Cu-Pb-Zn)
- Proximity to major structures
- Shear hosted
- Chlorite-silica alteration
- Short strike length (<200m)
- Narrow widths (5-20m)
- Vertical continuity
- Stacked lenses

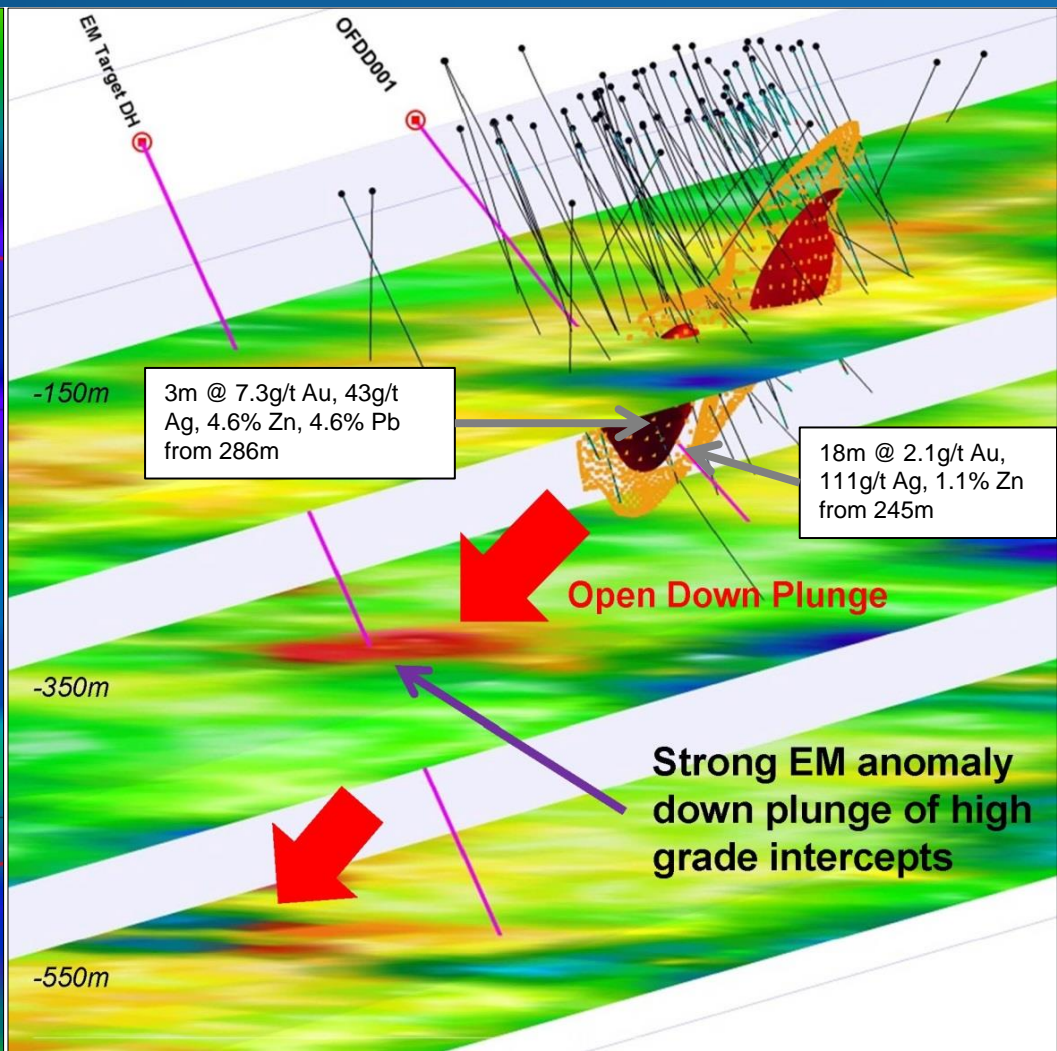
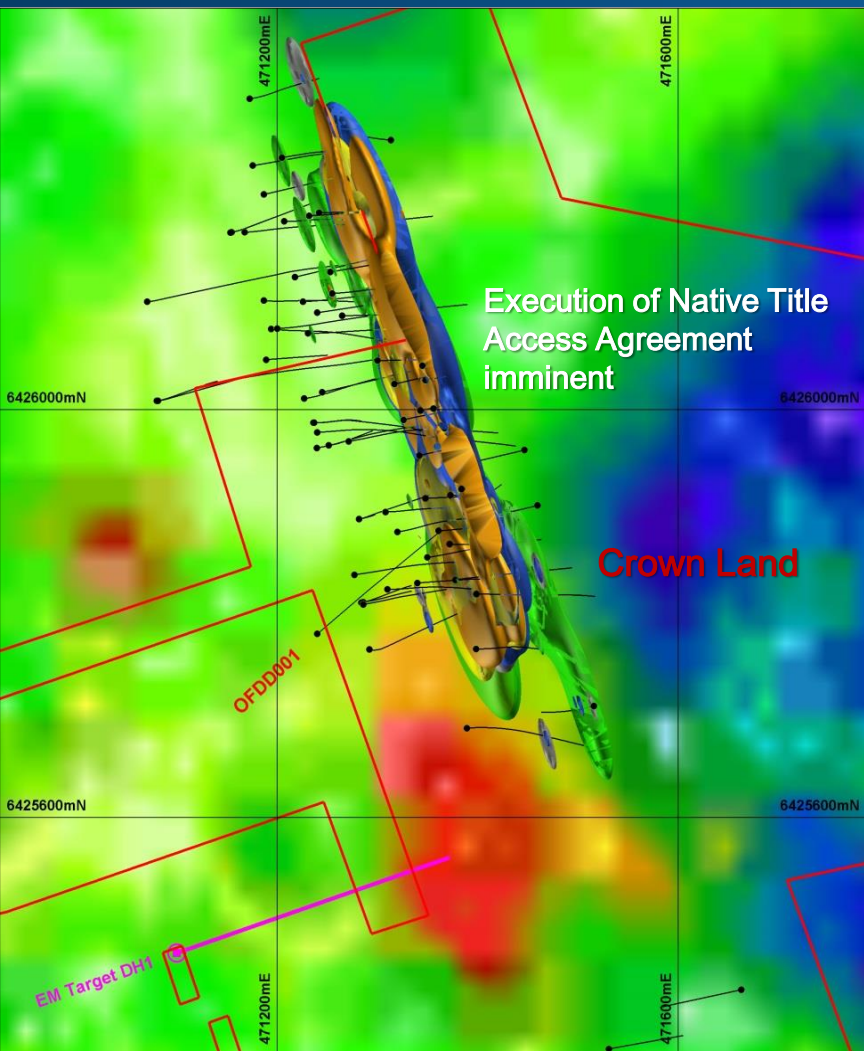
## Overflow



(Image adapted from Aurelia Mining website)



# Overflow VTEM Conductivity Target : Proposed MLEM & Diamond Hole



Overflow Prospect plan showing Au-Ag-Pb-Zn-Cu shell outlines (>0.27g/t gold, >6g/t yellow, >1000ppm blue, >1500ppm grey, >250ppm green respectively), historic drilling, crown land outline and planned diamond drill hole (magenta line) over -350m VTEM conductivity anomaly.

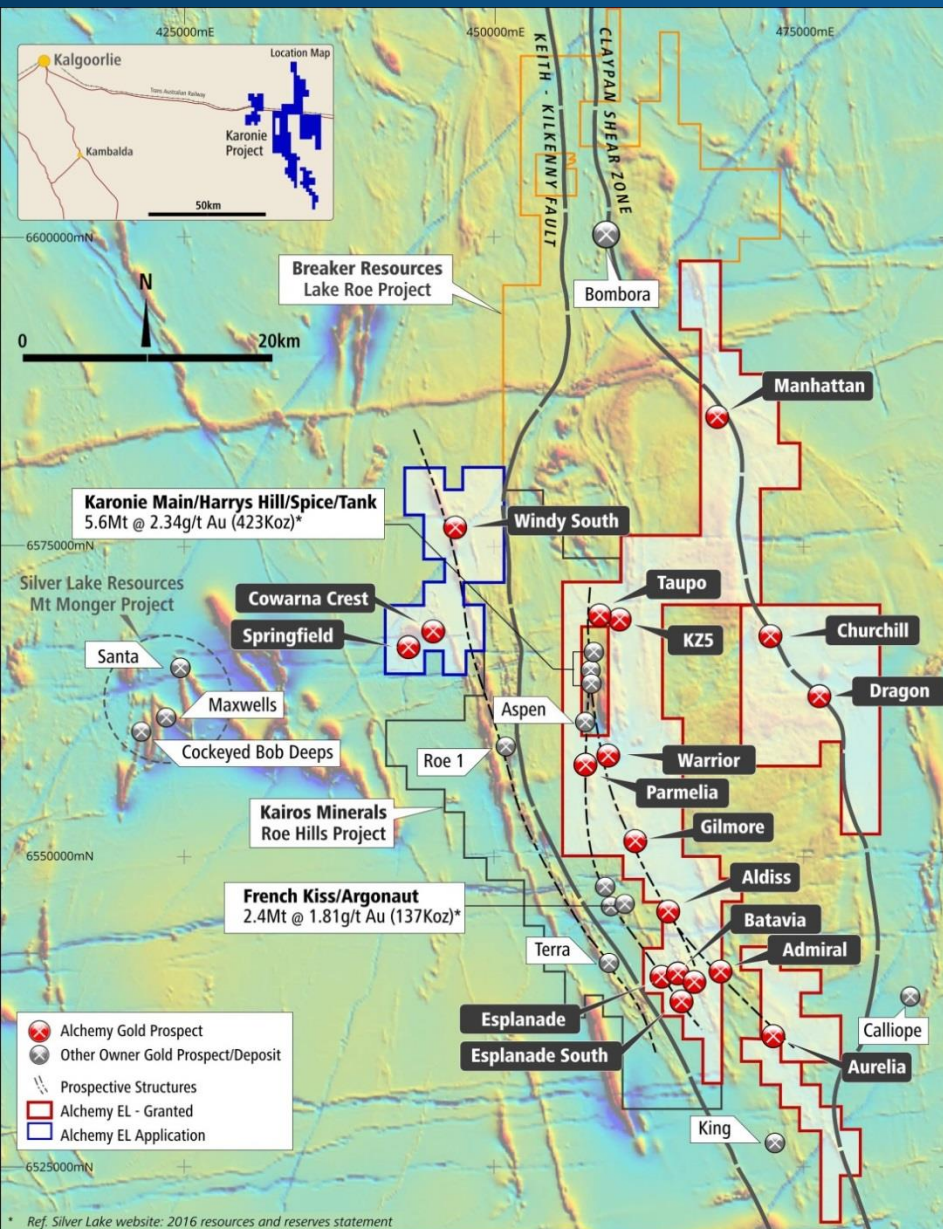
Ref. Alchemy Resources ASX Announcement 31 Jan 2017

Overflow Prospect 3D view looking down to the NW showing AuEq grade x thickness shells (red = >50gxm AuEq, orange dots = >30gxm AuEq), historic drilling (traces coloured by Au and Cu grades), OFDD001 and planned diamond drill hole (magenta lines) over VTEM conductivity slices (150m, 350m and 550m below surface).

Ref. Alchemy Resources ASX Announcement 9 Feb 2017

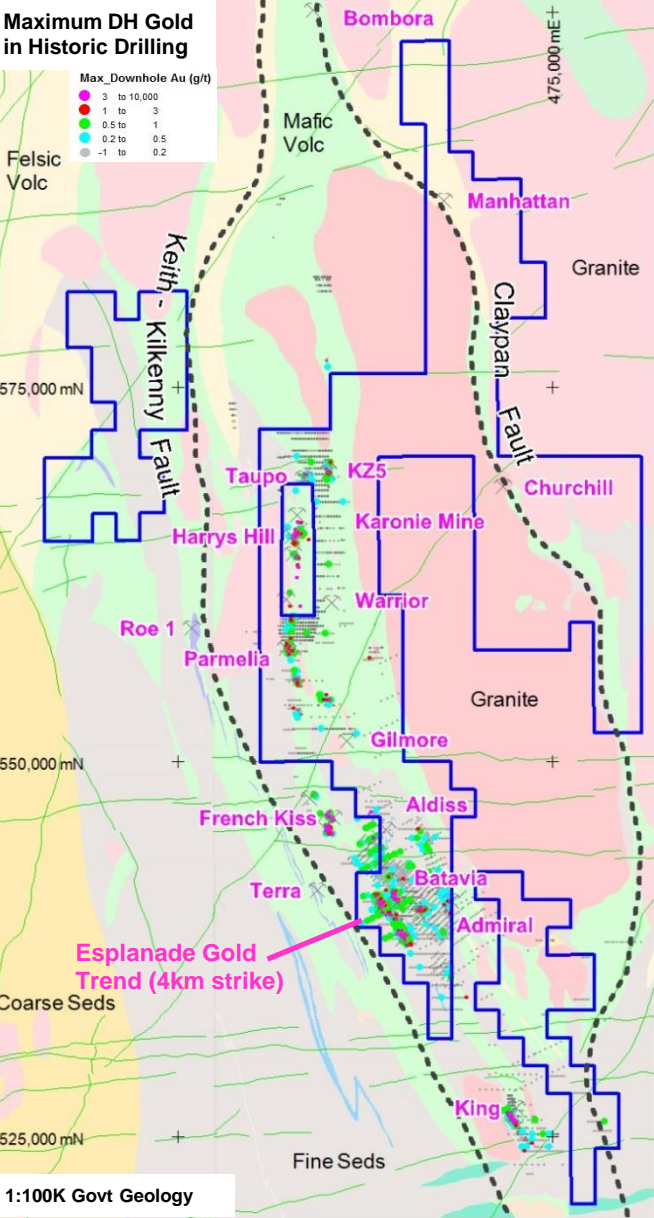


# Western Australia: Karonie Project



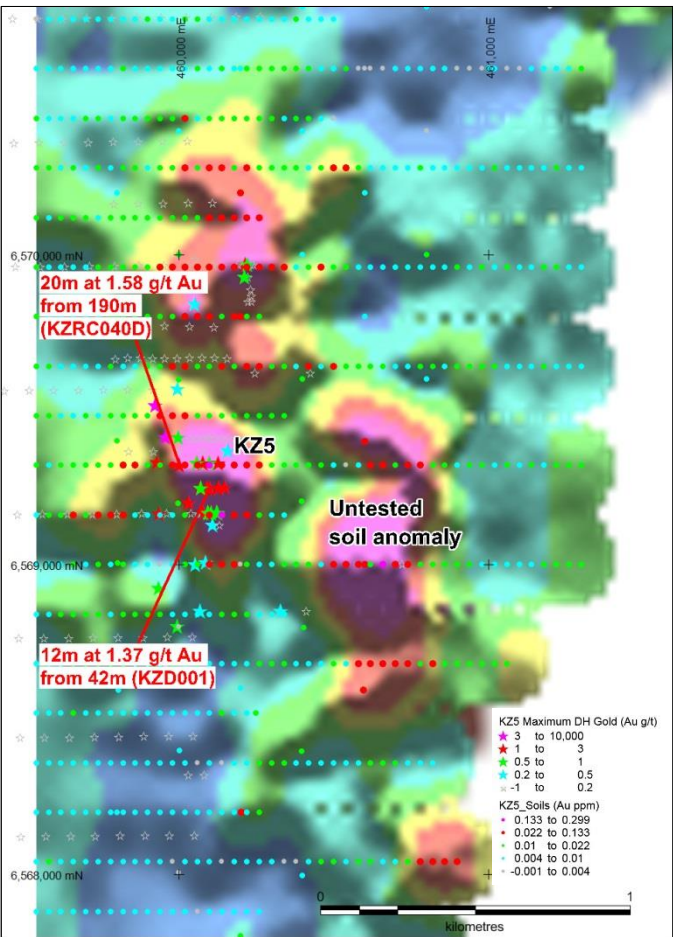
- 782km<sup>2</sup> of **highly prospective exploration licences**
- **Quality geological setting** – greenstones containing large scale structures (Keith Kilkenny and Claypan Shear) and mineralised secondary structures, proximal to “internal” granites
- **Along strike to the south of Breaker Resources’** (ASX:BRB **MCap. \$43M**) Lake Roe Project (**11.8Mt @ 1.6g/t Au for 624,000oz** on Claypan Shear Zone)
- **38km of the Claypan Shear Zone** - ineffective soil and auger sampling over transported soil and no previous drilling
- Northern and southern **strike extensions of 560,000oz @ 2.2g/t Au** (Karonie Main, Harry’s Hill, Spice, Tank, French Kiss & Argonaut reserves and resources - Silver Lake Resources (ASX:SLR))
- Adjacent to **Kairos Minerals** (ASX:KAI **MCap. \$31M**) **Roe Hills Project**
- **50km from Silver Lake’s Mt Monger / Randalls processing plant**

# Karonie Project - Drill Targets



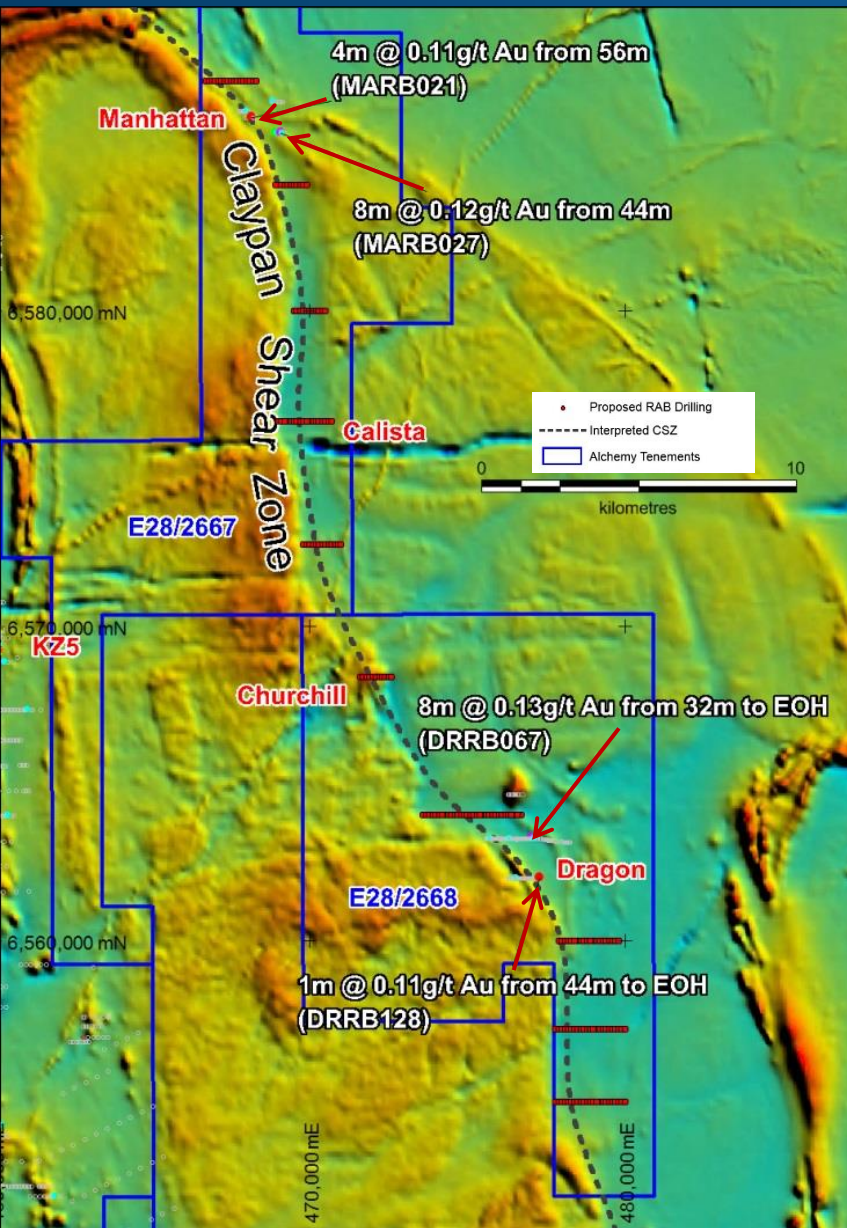
- Esplanade (southern extension of French Kiss 137Koz @ 1.8g/t Au)
- Parmelia (southern extension of Harry's Hill 137Koz @ 1.8g/t Au)
- Claypan Shear Zone (38km long, untested, no effective geochem or drilling)

- Untested KZ5 South soil anomaly

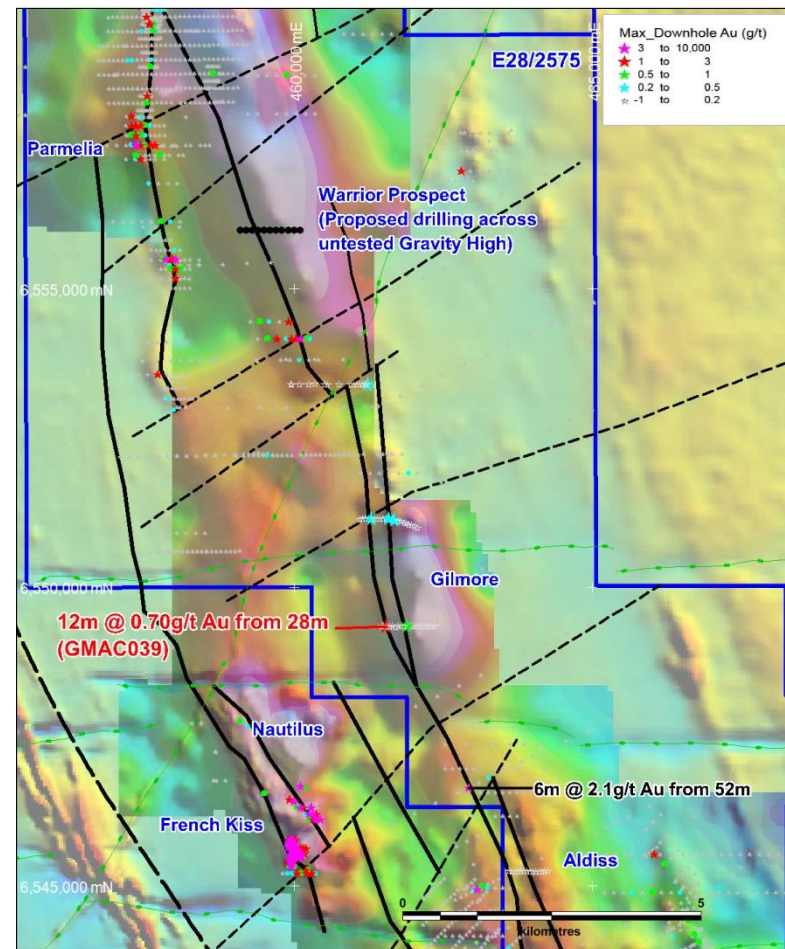




# Karonie Project - Karonie and Claypan Shear Drill Targets



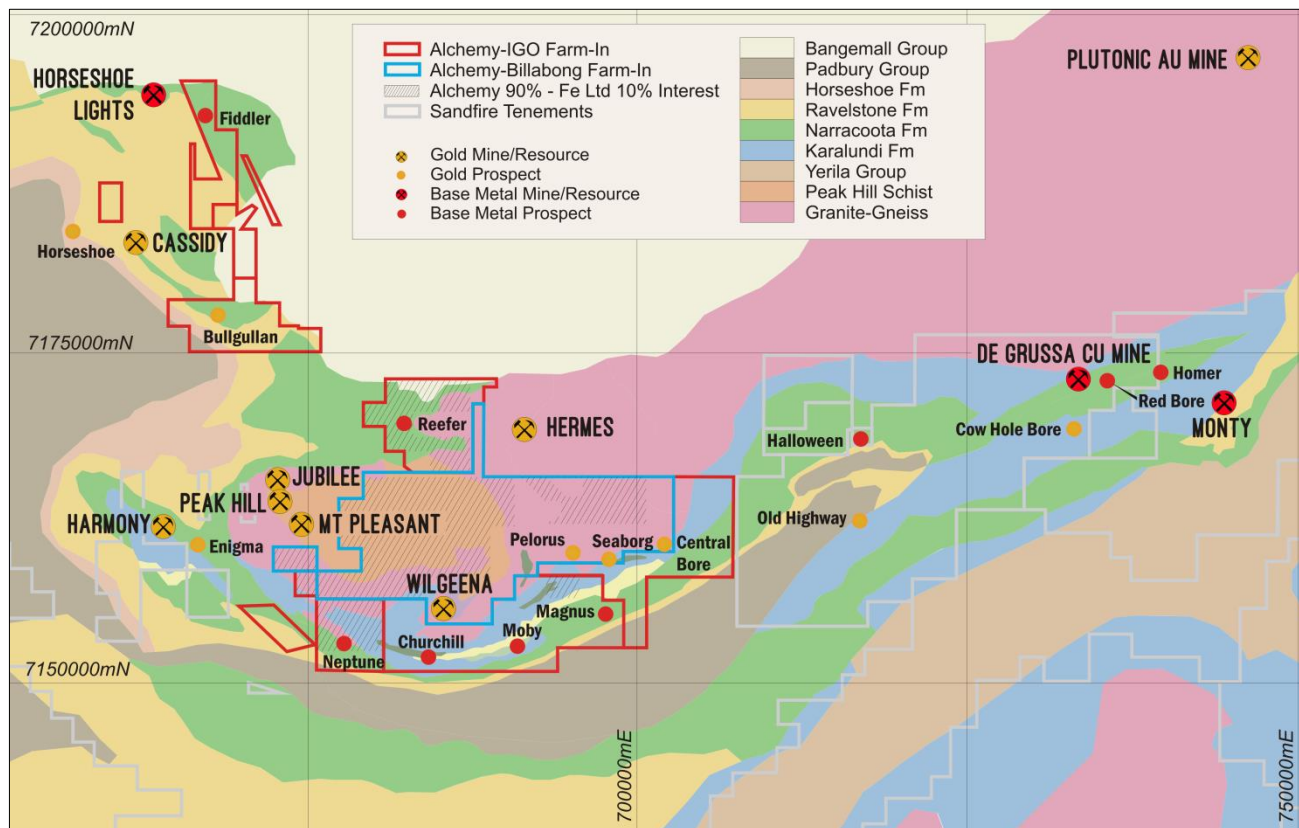
- Anomalous gold results returned from Dragon and Manhattan on the Claypan Shear Zone, coinciding with quartz veined, silica-carbonate-pyrite altered, sheared dolerite. Further regional RAB drilling planned.
- Significant Aircore drilling results returned from wide spaced drill lines at the Gilmore Prospect





# Bryah Basin Project (527km<sup>2</sup>) - IGO and Superior Gold Farm-In Agreements

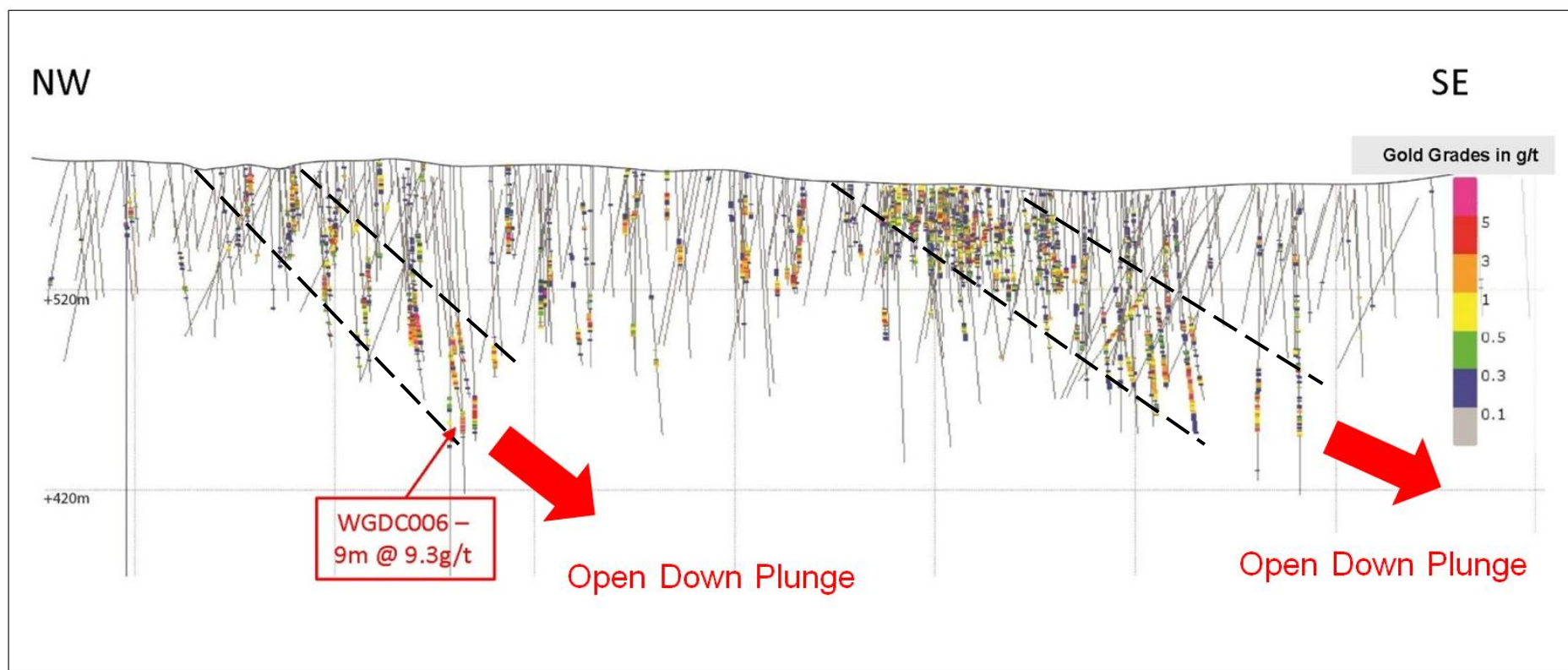
- **Independence Group NL** (ASX: IGO) earning a **70-80% interest** by spending **\$6M within 5 years** (commencing 29 Oct 2014). Remaining spend = **\$2.2M over 2.5 years**
- **Superior Gold Inc.** (TSX-V: SGI) earning **70-80% interest** by spending **\$1.2M within 3 years** (effective date 17 April 2015). Alchemy's 20% interest carried to production & repaid from 50% of Alchemy's share of gold.
- Superior Gold currently drilling at the Wilgeena deposit (JORC 2004 Indicated Resource of **1.36Mt @ 1.99g/t Au for 87,373oz Au**)<sup>1)</sup>
- Alchemy retains a **1% NSR over 20,000oz** gold recovered from Hermes (**3.3Mt @ 2.0g/t for 212,000oz Au**) once production reaches 70,000oz<sup>2)</sup>. Mining at Hermes commenced March 2018.



1) ref. Alchemy ASX announcement dated 22 October 2012  
 2) ref. Alchemy ASX announcement dated 24 February 2015

# Bryah Basin Project - Superior Gold Joint Venture

- Sampling of historic diamond hole at Hermes South (Wilgeena) Prospect returned 9m @ 9.3g/t Au from 136.2m
- Resource modelling and JORC 2012 update of the existing Wilgeena JORC 2004 Indicated Resource of 1.36Mt @ 1.99g/t Au for 87,373oz Au due second quarter of 2018
- The intercept confirms high grade plunging ore shoots at Hermes South / Wilgeena remain open at depth to the SE
- Superior Gold currently drilling to confirm potential for the resource to become a second open pit operation



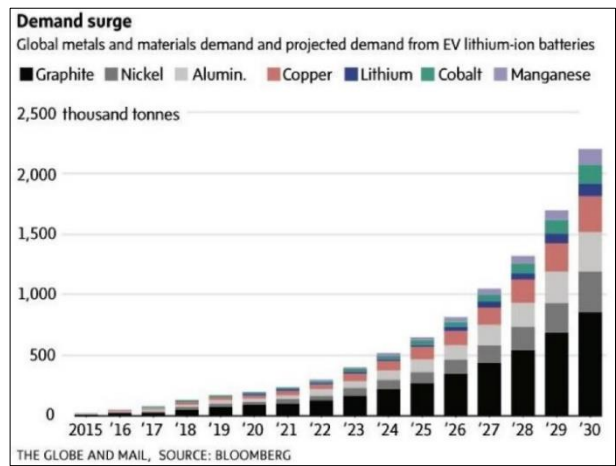
Hermes South (Wilgeena) long section (drill hole traces coloured by Au g/t).

# Summary

- Value of projects not recognised in Alchemy's share price;
  - West Lynn Ni-Co (Al ± Sc) Exploration Target with significant expansion potential close to rail and potential Sc processing plant
  - Overflow Project – host to a potential “company maker” deposit?
  - Karonie Project prospective for shallow gold discovery - close to existing gold resources and gold processing infrastructure
  - Independence Group and Superior Gold funding \$2.2M of base metal and gold exploration via the Bryah Basin Joint Ventures
  - Cash + Hermes Royalty + Wilgeena Resource + JV spend underpins Alchemy's market capitalisation
- Experienced Board
- Strong major shareholder support



# Appendix 1: Cobalt Supply, Demand and Price



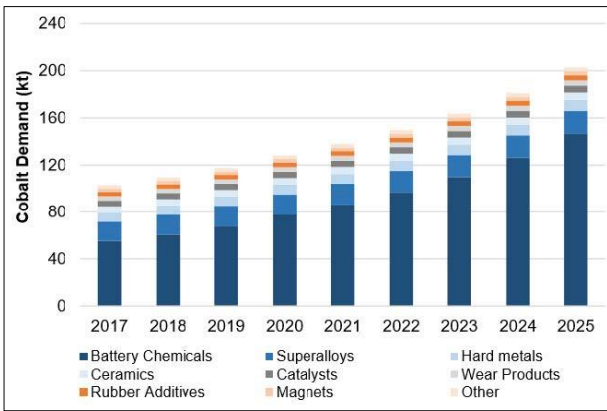
5 Year Cobalt Price (US\$/t)



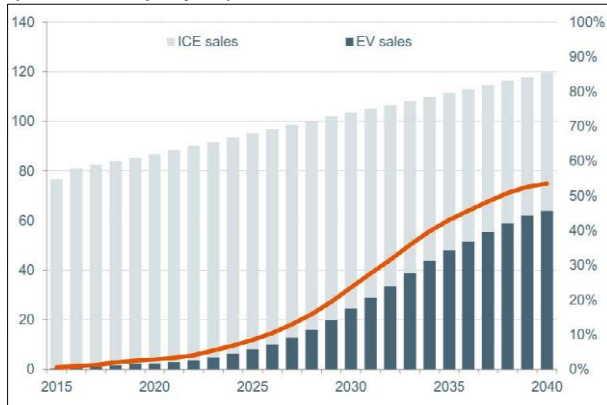
Five countries with stated goals of banning sales of internal combustion engine (ICE) vehicles by varying dates (thebull.com.au, Feb 2018)

Country	Year
India	2030
The Netherlands	2025
Norway	2030
United Kingdom	2040
France	2050

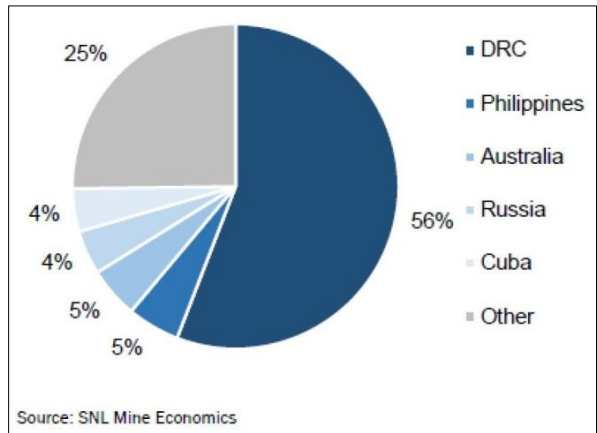
Cobalt Demand



Annual Global Light Vehicle Sales Forecast (million cars per year)

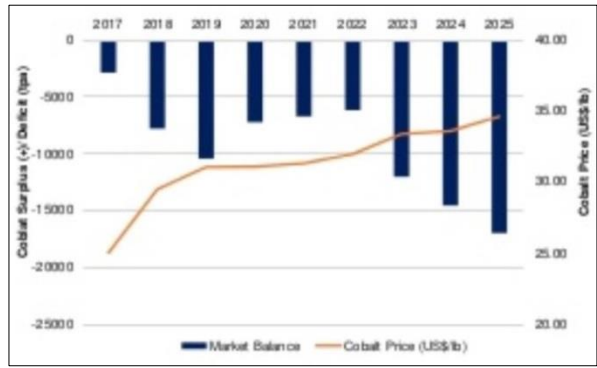


Global Mined Cobalt by Country - 2016

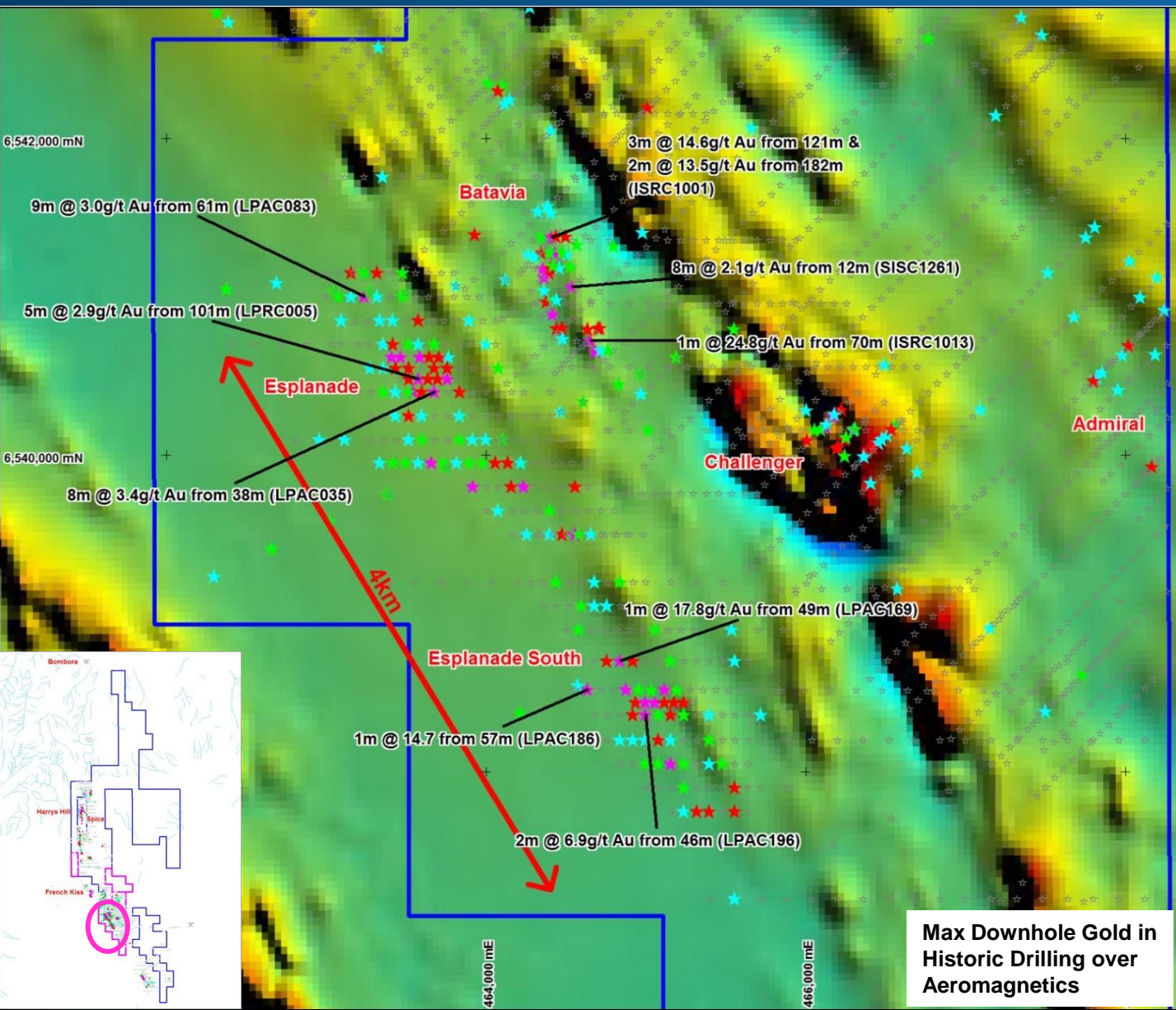


If the DRC turmoil continues, and/or China continues to absorb global cobalt supplies, then prices should remain favourable, especially as electric vehicles (EVs) gradually takeover combustion engine vehicles.

Forecast Cobalt Balance and Price



# 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)

**5m @ 2.9g/t Au** from 101m (LPRC5)

**Batavia** historic drill intercepts include:

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

**8m @ 2.1g/t Au** from 12m (SISC1261)

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

# Disclaimer and Competent Person's Statement

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## Competent Person's Statement

The information in this report that relates to Exploration Targets or Exploration Results is based on information compiled by Mr Leigh Ryan, who is the Managing Director of Alchemy Resources Limited and holds shares and options in the Company. Mr Ryan is a Member 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 CocksRocks 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.