



CYU

Copper Resource Discovery  
for the Isa and Drilling in Chile

**MINING RESOURCE CONFERENCE – 2012 BRISBANE**

**CHINALCO YUNNAN COPPER RESOURCES LTD  
(CYU:ASX)**



# Cautionary Note & Competent Persons Statement

## CAUTIONARY NOTE

Whilst this document and presentation is based on information from sources which are considered reliable, Chinalco Yunnan Copper Resources Ltd (“**Chinalco Yunnan**”), its employees and consultants do not represent, warrant nor guarantee, by expression nor implication, that the information in this document and presentation is complete or accurate. To the maximum extent permitted by law, Chinalco Yunnan disclaims any responsibility to inform any recipient of this document and presentation of any matter that subsequently comes to its notice, which may affect any of the information contained in this document and presentation.

## COMPETENT PERSONS STATEMENT

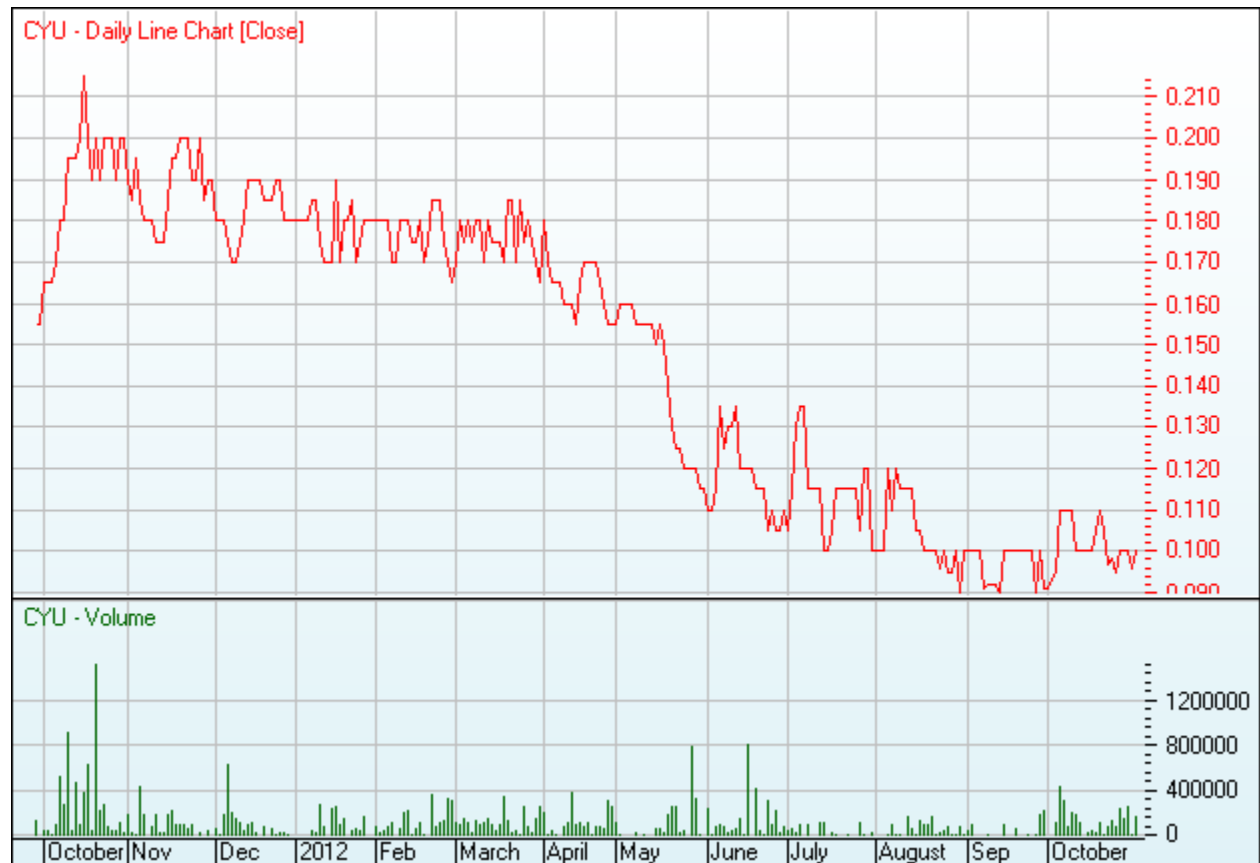
The information in this report that relates to the Inferred resource at the Elaine Project is based on information compiled by Steven Ristorcelli, who is a Certified Professional Geologist with the American Institute of Professional Geologists, a “Recognised Overseas Professional Organisation”. Mr Ristorcelli is Principal Geologist with Mine Development Associates of Reno, Nevada, USA. Mr Ristorcelli has sufficient experience relevant to the style of mineralisation and type of deposit under consideration and to the activity he is undertaking to qualify as a Competent Person as defined in the 2004 Edition of the “Australasian Code for Reporting of Exploration Results and Mineral Resources”. Mr Ristorcelli consents to the inclusion in the report of the matters based on his information related to the Inferred resource in the form and context in which it appears.

The information in this report that relates to Exploration Results for all prospects is based on information compiled by Jason Beckton, who is a Member of the Australian Institute of Geologists, and is the Managing Director of Chinalco Yunnan Copper Resources Ltd. Mr Beckton has sufficient experience relevant to the styles of mineralisation and type of deposits under consideration and to the activity he is undertaking to qualify as a Competent Person as defined in the 2004 Edition of the “Australasian Code for Reporting of Exploration Results and Mineral Resources”. Mr Beckton consents to the inclusion in the report of the matters based on his information in the form and context in which it appears.



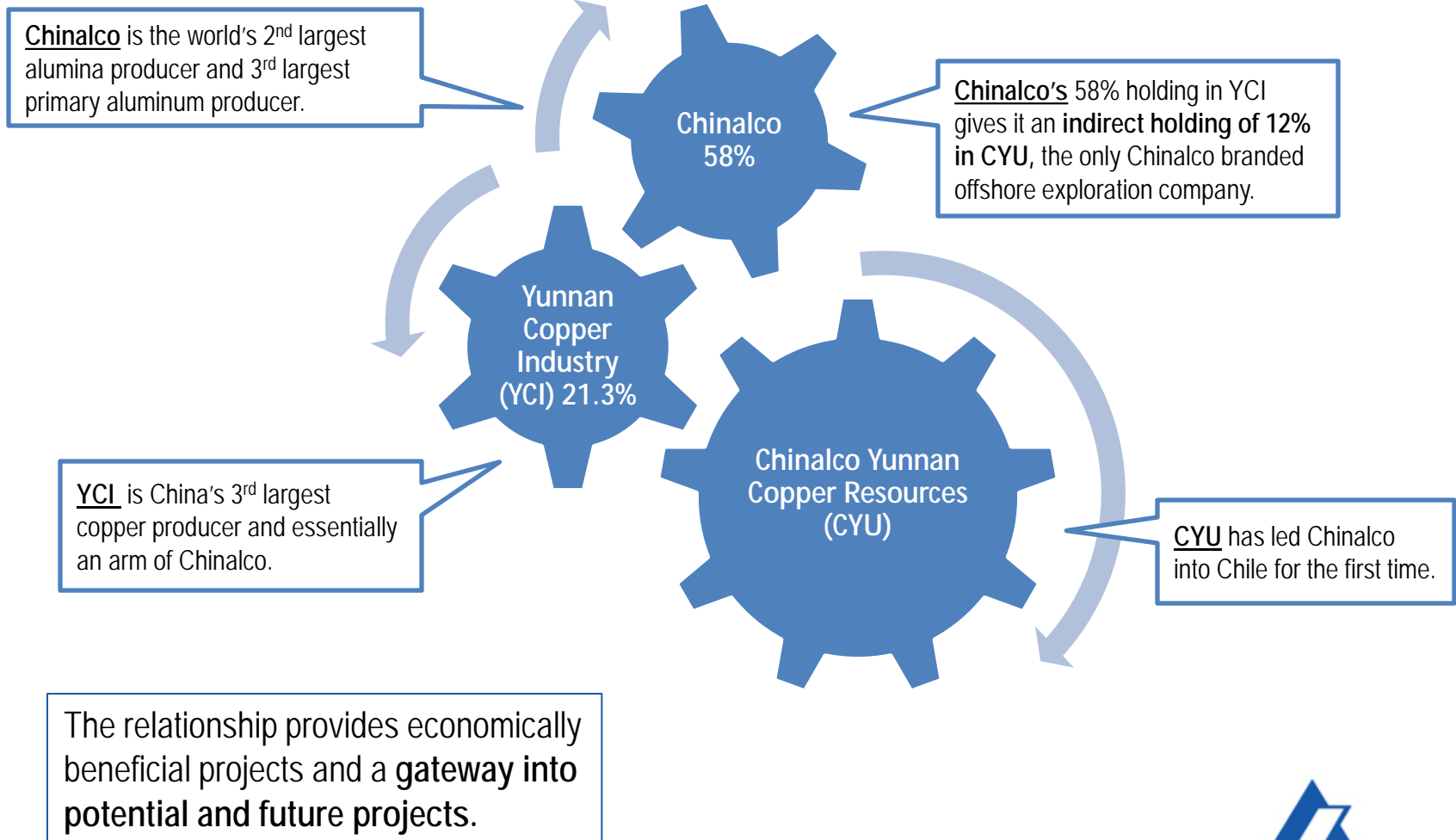
# Company Snapshot – Copper Stocks Down for much longer?

ASX Code	CYU
Market Cap	\$17.8m
Shares on Issue	173.4m
Options on Issue	16.9m
Total Shareholders	c. 1500
Cash	0.1m*
Top 20 Holdings	53.7%



\*Currently underwritten rights issue for \$8.7million underwritten  
\$7million to be concluded 22<sup>nd</sup> Nov

# Exceptional Partner: Chinalco



# CYU Project Diversity – Partnerships to get into the best ground – derisked

**Copper Silver - Laos:** Chinalco  
Yunnan managed, pre  
discovery

**LAOS-CHINA**

**Copper – Queensland:**  
Elaine discovery more to  
follow in Isa Belt

**GOLDSEARCH** xstrata

**Copper – Chile:** Major  
porphyry systems  
being drilled

**RioTinto** CODELCO xstrata

# CYU Objective – Copper Resource Discoveries

Target Element  
**Copper**

hydrogen 1 <b>H</b> 1.0079																	helium 2 <b>He</b> 4.0026						
lithium 3 <b>Li</b> 6.941	beryllium 4 <b>Be</b> 9.0122																	boron 5 <b>B</b> 10.811	carbon 6 <b>C</b> 12.011	nitrogen 7 <b>N</b> 14.007	oxygen 8 <b>O</b> 15.999	fluorine 9 <b>F</b> 18.998	neon 10 <b>Ne</b> 20.180
sodium 11 <b>Na</b> 22.990	magnesium 12 <b>Mg</b> 24.305																	aluminum 13 <b>Al</b> 26.982	silicon 14 <b>Si</b> 28.086	phosphorus 15 <b>P</b> 30.974	sulfur 16 <b>S</b> 32.065	chlorine 17 <b>Cl</b> 35.453	argon 18 <b>Ar</b> 39.948
potassium 19 <b>K</b> 39.098	calcium 20 <b>Ca</b> 40.078	scandium 21 <b>Sc</b> 44.956	titanium 22 <b>Ti</b> 47.867	vanadium 23 <b>V</b> 50.942	chromium 24 <b>Cr</b> 51.996	manganese 25 <b>Mn</b> 54.938	iron 26 <b>Fe</b> 55.845	cobalt 27 <b>Co</b> 58.933	nickel 28 <b>Ni</b> 58.693	copper 29 <b>Cu</b> 63.546	zinc 30 <b>Zn</b> 65.39	gallium 31 <b>Ga</b> 69.723	germanium 32 <b>Ge</b> 72.61	arsenic 33 <b>As</b> 74.922	seelenium 34 <b>Se</b> 78.96	bromine 35 <b>Br</b> 79.904	krypton 36 <b>Kr</b> 83.80						
rubidium 37 <b>Rb</b> 85.468	strontium 38 <b>Sr</b> 87.62																	indium 49 <b>In</b> 114.82	tin 50 <b>Sn</b> 118.71	antimony 51 <b>Sb</b> 121.75	tellurium 52 <b>Te</b> 127.60	iodine 53 <b>I</b> 126.90	xenon 54 <b>Xe</b> 131.29
cesium 55 <b>Cs</b> 132.91	barium 56 <b>Ba</b> 137.33	* 57-70	lutetium 71 <b>Lu</b> 174.97	hafnium 72 <b>Hf</b> 178.49	tantalum 73 <b>Ta</b> 180.95	tungsten 74 <b>W</b> 183.84	rhenium 75 <b>Re</b> 186.21	osmium 76 <b>Os</b> 190.23	iridium 77 <b>Ir</b> 192.22	platinum 78 <b>Pt</b> 195.08	gold 79 <b>Au</b> 196.967	mercury 80 <b>Hg</b> 200.59	thallium 81 <b>Tl</b> 204.38	lead 82 <b>Pb</b> 207.2	bismuth 83 <b>Bi</b> 208.98	polonium 84 <b>Po</b> [209]	astatine 85 <b>At</b> [210]	radon 86 <b>Rn</b> [222]					
francium 87 <b>Fr</b> [223]	radium 88 <b>Ra</b> [226]	** 89-102	actinium 103 <b>Lr</b> [227]	rutherfordium 104 <b>Rf</b> [261]	dubnium 105 <b>Db</b> [262]	seaborgium 106 <b>Sg</b> [266]	bohrium 107 <b>Bh</b> [264]	hassium 108 <b>Hs</b> [277]	meitnerium 109 <b>Mt</b> [268]	unnilium 110 <b>Uun</b> [271]	ununium 111 <b>Uuu</b> [272]	unbibium 112 <b>Uub</b> [277]											

\* Lanthanide series

\*\* Actinide series

lanthanum 57 <b>La</b> 138.905	cerium 58 <b>Ce</b> 140.12	praseodymium 59 <b>Pr</b> 140.908	neodymium 60 <b>Nd</b> 144.24	promethium 61 <b>Pm</b> [145]	samarium 62 <b>Sm</b> 150.36	europium 63 <b>Eu</b> 151.964	gadolinium 64 <b>Gd</b> 157.25	terbium 65 <b>Tb</b> 158.925	dysprosium 66 <b>Dy</b> 162.50	holmium 67 <b>Ho</b> 164.930	erbium 68 <b>Er</b> 167.259	thulium 69 <b>Tm</b> 168.930	ytterbium 70 <b>Yb</b> 173.045
actinium 89 <b>Ac</b> [227]	thorium 90 <b>Th</b> 232.0377	protactinium 91 <b>Pa</b> 231.03688	uranium 92 <b>U</b> 238.02891	neptunium 93 <b>Np</b> [237]	plutonium 94 <b>Pu</b> [244]	americium 95 <b>Am</b> [243]	curium 96 <b>Cm</b> [247]	berkelium 97 <b>Bk</b> [247]	californium 98 <b>Cf</b> [251]	einsteinium 99 <b>Es</b> [252]	fermium 100 <b>Fm</b> [257]	mendelevium 101 <b>Md</b> [261]	nobelium 102 <b>No</b> [259]

Associated elements also defined in CYU prospects?

# CYU Outcomes – 2012



***Discovery of Copper REE in Queensland***



***Exploring worlds best copper ground in Chile***



***Advanced Project drilling, Laos***



***Partnerships with Rio Tinto, Xstrata Copper in Chile and Australia***



***Strong support from strategic shareholders, Chinalco & Yunnan Copper***

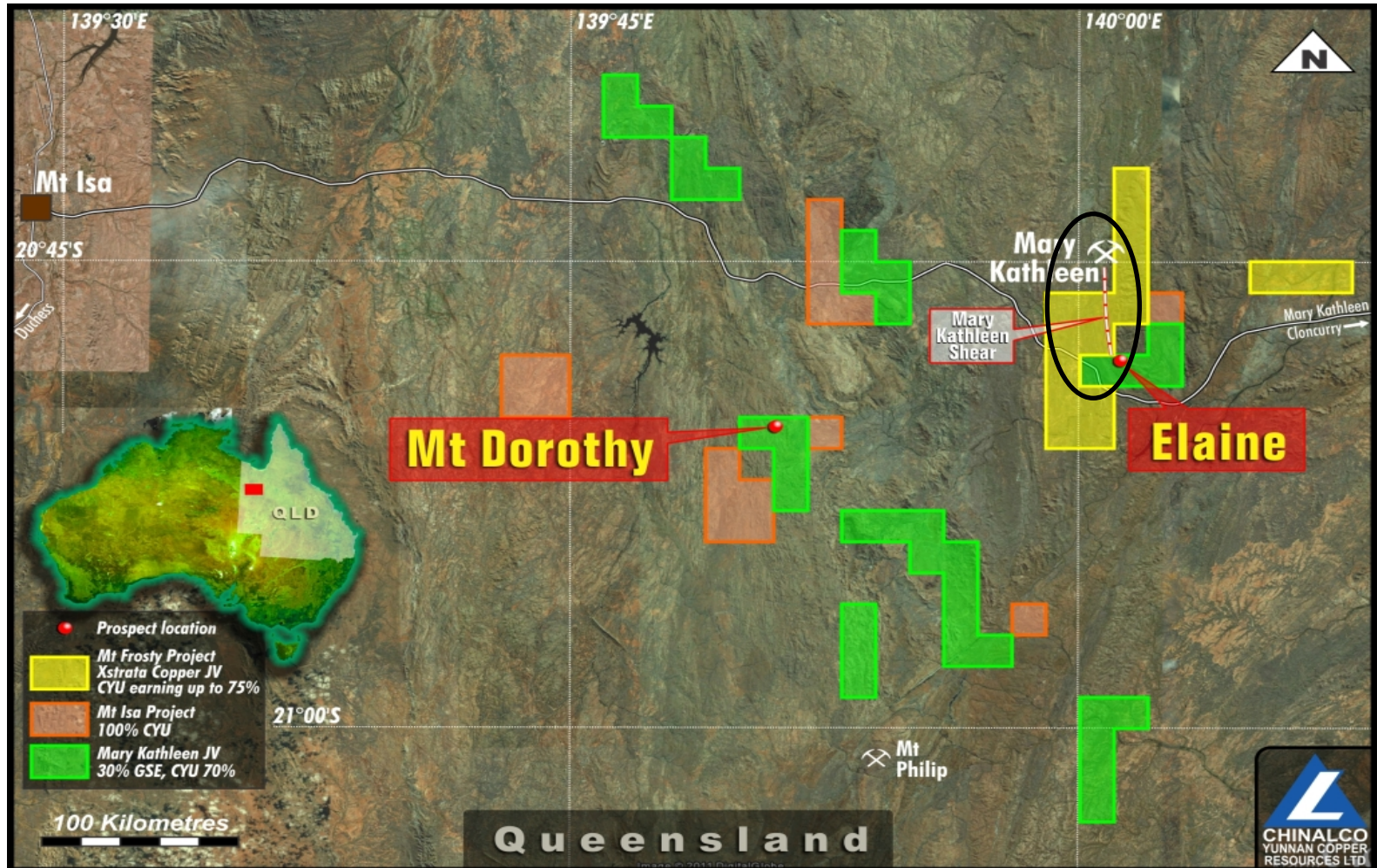
# Elaine – 27.7Mt Copper Deposit in “Uranium” Belt in Queensland

- JORC Inferred Resource announced in Sept 2012 of 27.7Mt @ 0.53% copper and 0.08g/t gold (0.61% CuEq) at a 0.25% CuEq cut-off, with contained metal content of 147,000t copper 75,000oz gold.
- Gold Uranium Skin - MKED009; 109 metres @ 0.50% Copper, 482ppm Cobalt including 30m @ 6.7g/t Au and 2,938 ppm U3O8.
- Recent shallow gold hit with bismuth: MKED026 26m @ 1.7g/t Gold, 0.24% Bismuth, 213 ppm Cobalt, 0.27% Copper. Uranium and Rare earths. Including 9m @ 3.63 g/t gold.





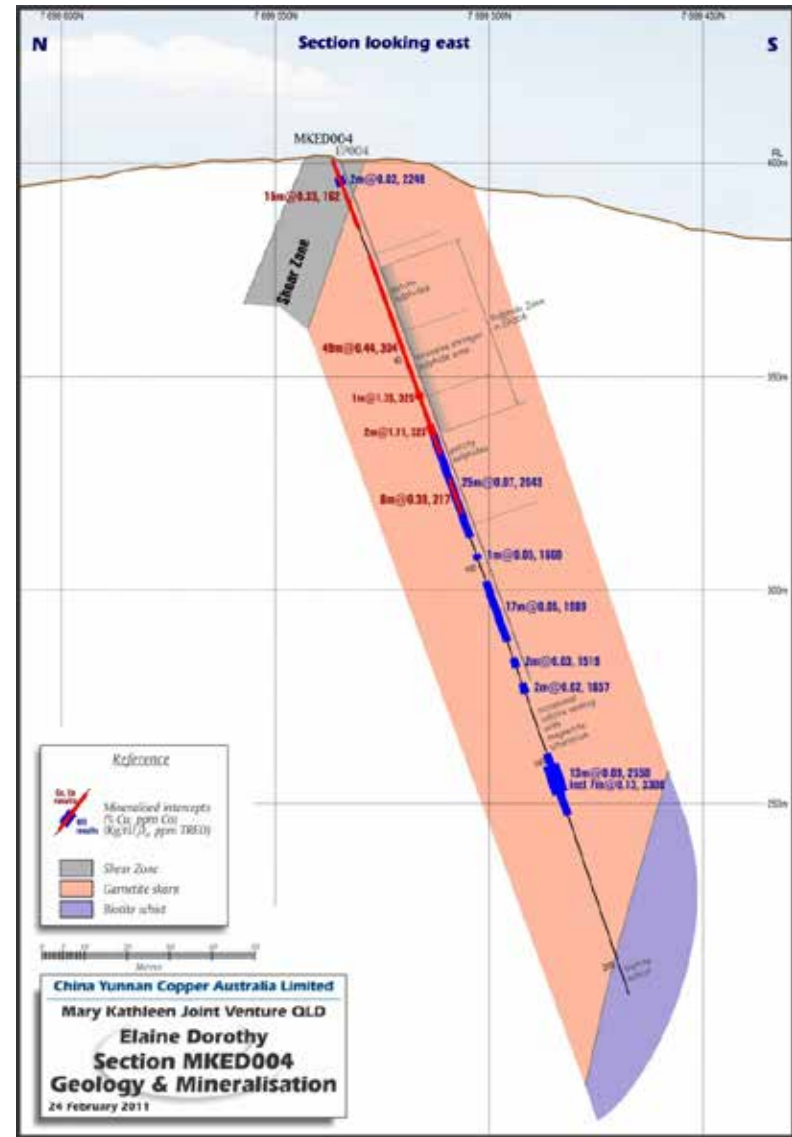
# Queensland – Projects & Possibilities



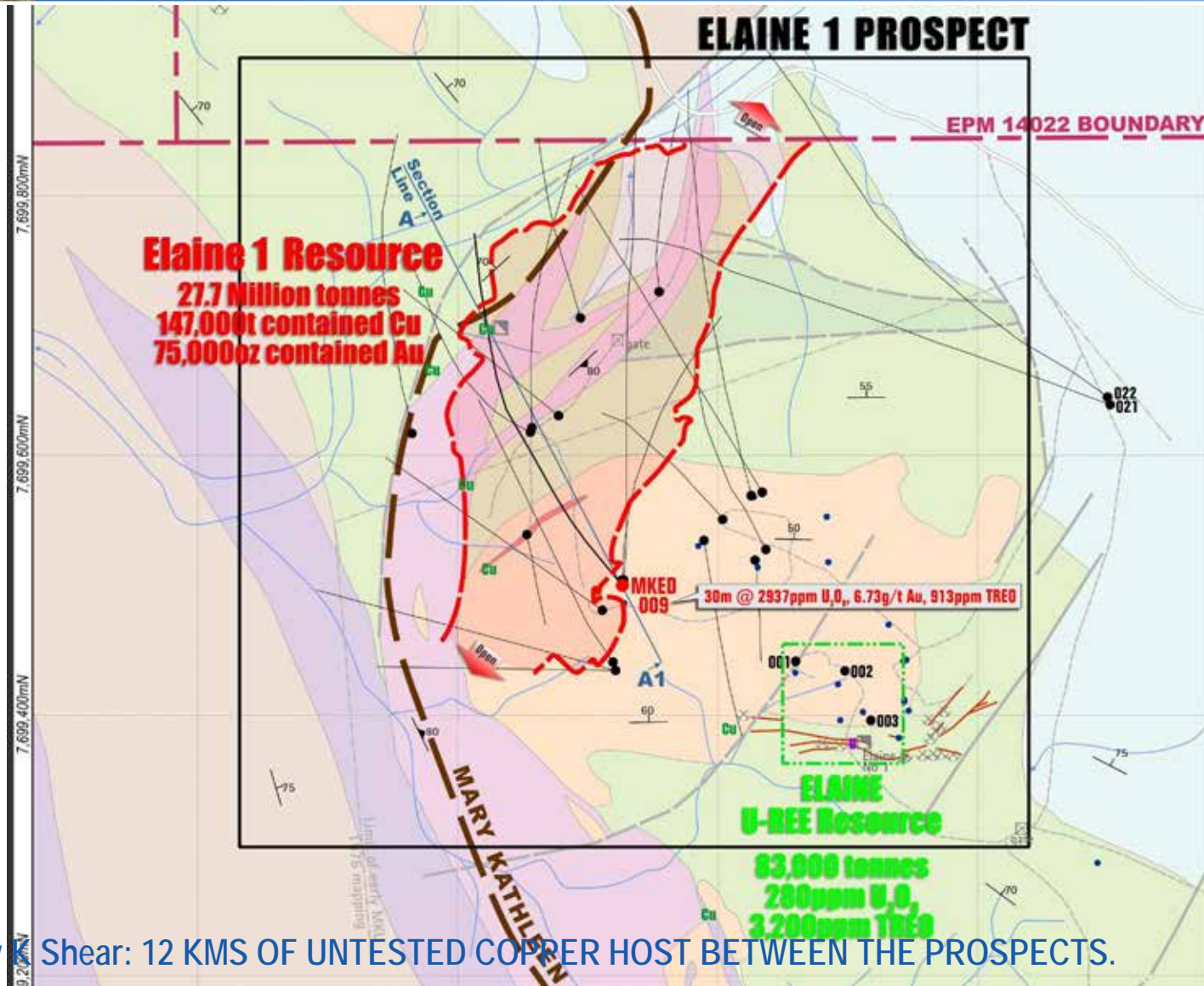
Elaine to Mary Kathleen – 8 km of untested strike of probable skarn replacement mineralisation.

# Elaine – Discovered by reading 1980's company reports

- Important to recognise contribution of Mary Kathleen Geologists from 1900's to 1980's and current Queensland Government Report Archive facility.
- Copper, gold, cobalt, rare earths, thorium but very low uranium present in this project.
- Discovery hole in 2011 MKED007, 122m @ 0.55% Cu, 317 Co, 0.08 Au



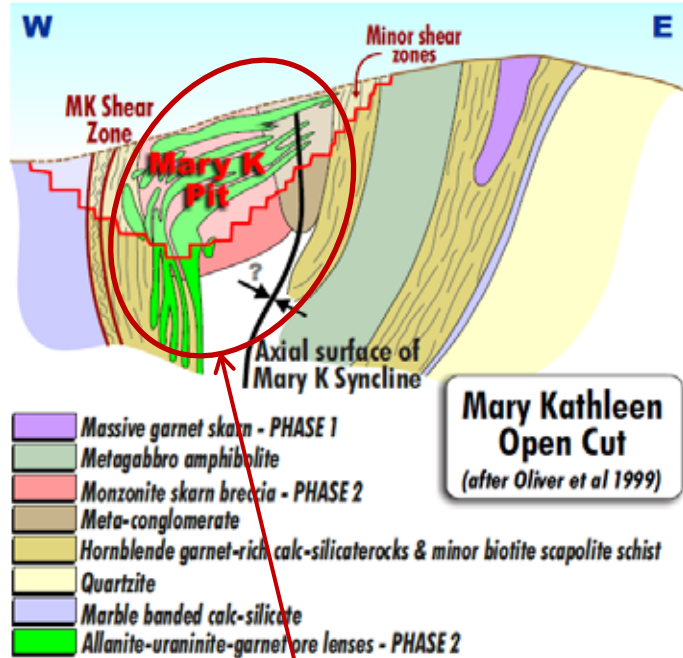
# Mary Kathleen Shear – New Copper Paradigm



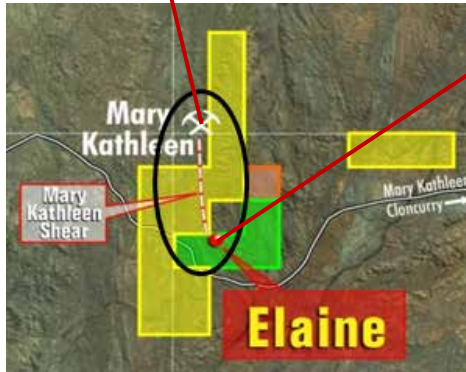
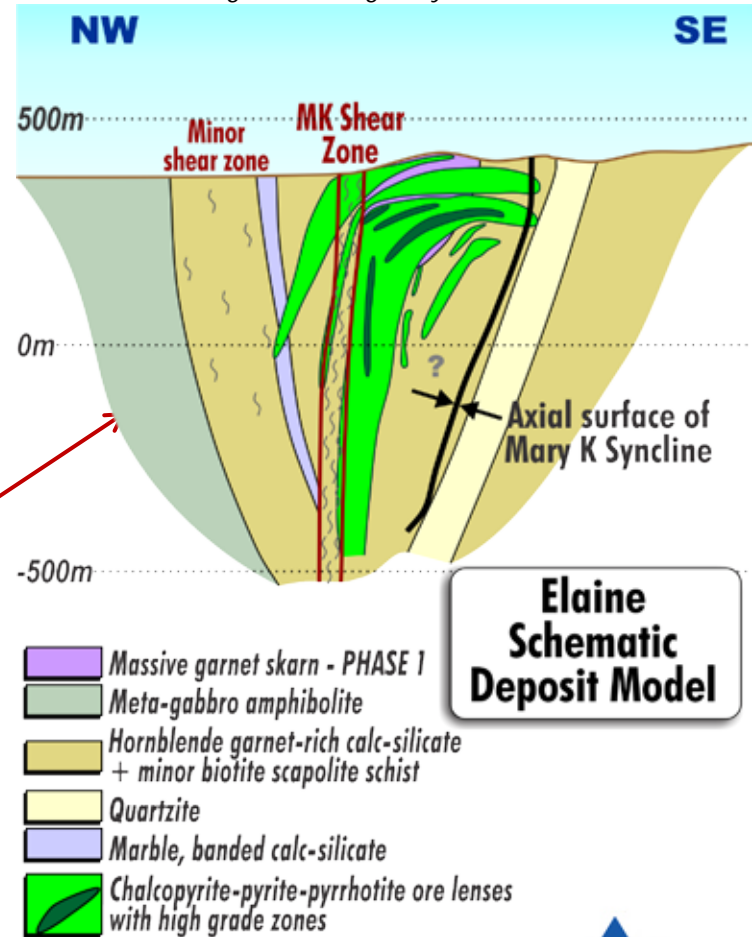
Mary Kathleen Shear: 12 KMS OF UNTESTED COPPER HOST BETWEEN THE PROSPECTS.

# Queensland – Further Resource Potential

Mary Kathleen, looking north along Mary Kathleen Shear.

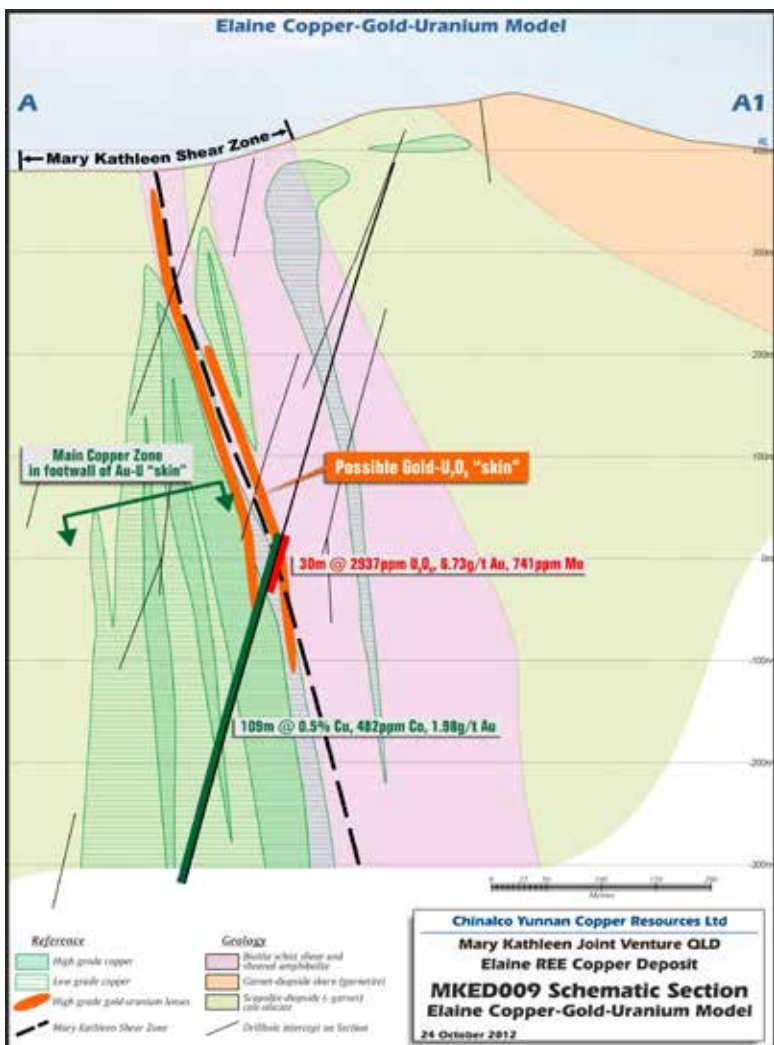


Elaine, looking north along Mary Kathleen Shear.

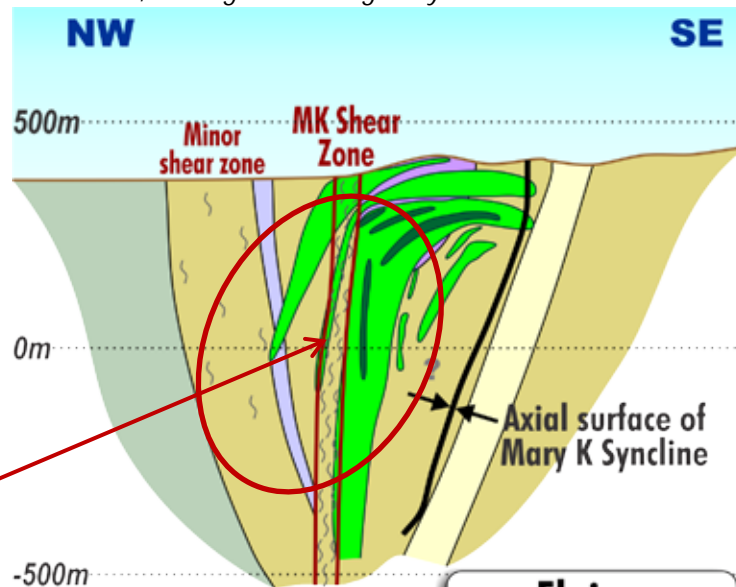


Suggestive that the 6km untested shear between Mary Kathleen and Elaine is host to multiple deposits.

# Elaine – Copper Gold variant of Mary K



Elaine, looking north along Mary Kathleen Shear.



- Massive garnet skarn - PHASE 1
- Meta-gabbro amphibolite
- Hornblende garnet-rich calc-silicate + minor biotite scapolite schist
- Quartzite
- Marble, banded calc-silicate
- Chalcopyrite-pyrite-pyrrhotite ore lenses with high grade zones



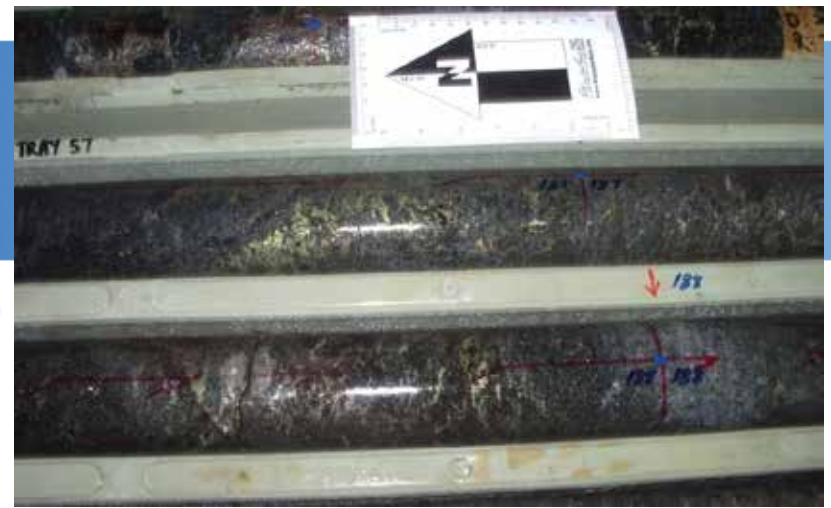
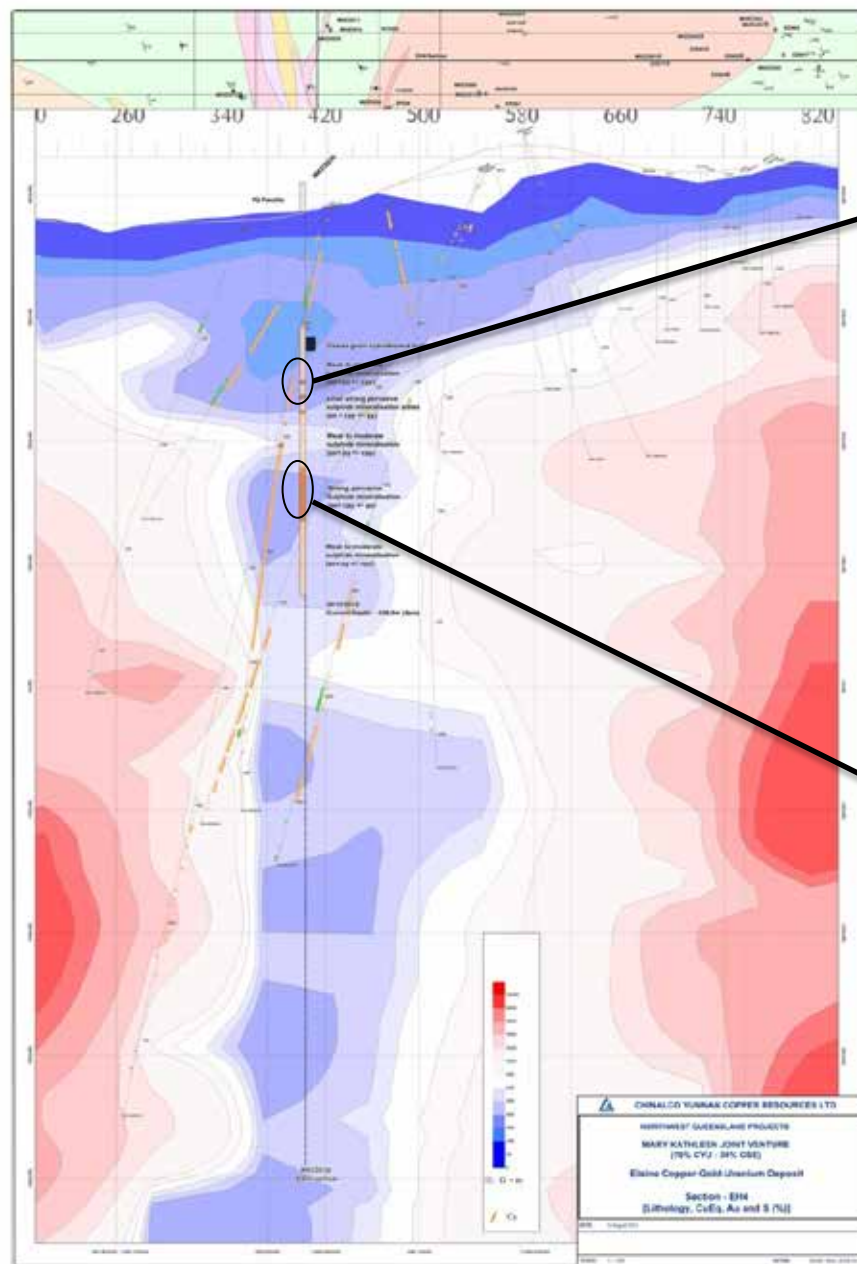
Suggestive that the 6km untested shear between Mary Kathleen and Elaine is host to multiple deposits.

# Elaine – Seeking Double Resource Tonnes



**Current vertical hole MKED036 at 231m in progress in strong chalcopyrite mineralisation testing theory of grade increase at depth. Hole will also be sampled for preliminary metallurgical testwork.**

# Elaine – Seeking Double Resource Tonnes



MKED036 – ~188m - Elaine copper-gold resource – patchy disseminated sulphide mineralisation dominated pyrrhotite + chalcopyrite +/- pyrite



MKED036 – ~240m - Elaine copper-gold resource – pervasive sulphide mineralisation, sulphide breccia - dominated pyrrhotite + chalcopyrite +/- pyrite – co-incident with resistivity low EH4 anomaly.



MKED036 –  
~240m  
Pervasive  
sulphide  
mineralisation

co-incident  
with resistivity  
low EH4  
anomaly.

CURRENTLY  
DRILLING TO AT  
LEAST 1000M





# Peer Comparison – Copper Resources

Name	Tonnes Mt	Cu %	Au ppm	Contained Cu (t)	Company
Horseshoe	1	1.47	0.13	14,700	QMN
<b>Elaine</b>	28	0.53	0.08	148,400	<b>CYU</b>
Mt Margaret	51	0.77	0.23	392,700	EXS
Rocklands	273	0.18	0.11	491,400	CDU
Mt Roseby	177	0.6	0.1	1,062,000	AOH
Ernest Henry	150	1.1	0.5	1,650,000	Xstrata
Mount Isa	330	3.3	0.1	10,890,000	Xstrata
De Grussa	12	5.3	1.8	627,000	SFR
Hillside	330	0.6	0.16	1,980,000	RXM

**Elaine Resource target is 300,000 tonnes Contained Cu.**

Sources: Geological Survey Queensland and all ASX companies. Lower cut offs median 0.2 % Cu

# Continuous Qld Activity and Results

- MKED36 currently drilling depths of Elaine.
- Resource target would be 300,000 tonnes copper prior to commencing scoping study.
- Gold U rich skin over copper deposit.
- JV Partners Yunnan Copper drilling Ernest Henry district.



# Chile

- Diamond drilling completed at Candelabro and Caramasa, Palmani and Humito 2013.
- Corporate Exploration Target is >250Mt deposits.
- Sulfatos due to be accessed and geophysics which has never been done on a project with 92m @ 0.62% Copper intercept.





# Summary

## AUSTRALIA

Elaine

**New Discovery – Confirmed Copper Gold Cobalt REE Uranium sulphide zones.** Resource estimate of 27.7Mt completed with drilling continuing and assays awaited. Targeting 12km long shear zone which is a proven source of mineralisation.

Cloncurry North

JV with Yunnan Exploration targeting Ernest Henry style systems. Drilling complete with extensional drilling planned.

Mount Frosty

Xstrata Copper JV field work and planning underway to enable commencement of drilling on Jubilee Gold Copper.

## CHILE

Five Copper Porphyry Projects, all to be tested by end of 2012 2013.

## LAOS

Copper Silver Development JV with Chinalco Yunnan to develop existing targets in 2012 to feed nearby processing facilities. Trench results have highlighted Zambian style mineralisation of Copper and Silver. Subject to review.





***Discovery of Copper REE in Queensland***



***Exploring worlds best copper ground in Chile***



***Advanced Project drilling, Laos***



***Partnerships with Rio Tinto, Xstrata Copper  
in Chile and Australia***



***Strong support from strategic shareholders,  
Chinalco & Yunnan Copper***

# Contact Details – CYU:ASX

51 Commercial Road  
Mount Isa, QLD 4825

Level 6, 316 Adelaide St  
Brisbane QLD 4000

Level 13, Office 02  
6410 Apoquindo  
Los Condes, Santiago Chile

[www.cycal.com.au](http://www.cycal.com.au)

