



# > Production Path

July, 2014

PRODUCTORA  
COPPER PROJECT  
CHILE

# 2014

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# Growth & Development Delivered

- **Maiden Ore Reserve at Productora** First 9 years of mine life secured, significant growth to come
- **Mineral Resource upgrade at Productora** now over 1Mt of copper metal and 675,000oz of gold
- **First Resource at Frontera** 50km south of Productora delivers starter resource of 187,000t of copper and 356,000oz of gold
- Total Mineral Resource base for Chilean coastal copper hub grown to over **1.2Mt of copper and 1Moz of gold**



# Joint Infrastructure Deal Imminent

- Project partner CMP and HCH currently executing **joint infrastructure agreement for Productora**
- Productora **located in the heart of CMP's** Huasco and Vallenar **iron ore operations**
- CMP is a subsidiary of CAP SA- Chile's largest iron ore producer and vertically integrated steel business
- **Easements, surface rights, tenement rationalisation and port access study**
- **Significant operational synergies** and reduced development timeframes



# 2014-2015 Finance Secured- Drilling and PFS **Underway**

- **US\$ 25 million debt facility in place** with Canadian resources financier Spratt Lending Partnership
- Funds dedicated to **advance Productora into DFS stage**
- 25,000m RC and 8,000m DD **drilling programme underway** targeting significant reserve/resource growth
- Development studies re-started, **targeting completion of PFS and commencement of DFS**



# Corporate Overview

- **ASX-listed**, leading emerging copper producer
- **Focused on developing and leveraging** a new large-scale, copper production hub along the Chilean coastal range
- **Successful project advancement strategy** for Productora



## Cash at Hand

Approx. A\$ 22 million (11th July 2014)

## Sprott Lending Debt Facility

US\$10 million drawn (included in cash)

US\$15 million un-drawn

## Capital Structure

347.7 Million shares

39.7 Million listed 75c options (exp Nov 2014)

## Share Price

AU\$0.23 (closing price- 11<sup>th</sup> July 2014)

## Top 5 Shareholders

19.3% K.A.S

11.8% CAP S.A. (Port Finance)

11.7% Taurus Funds Management

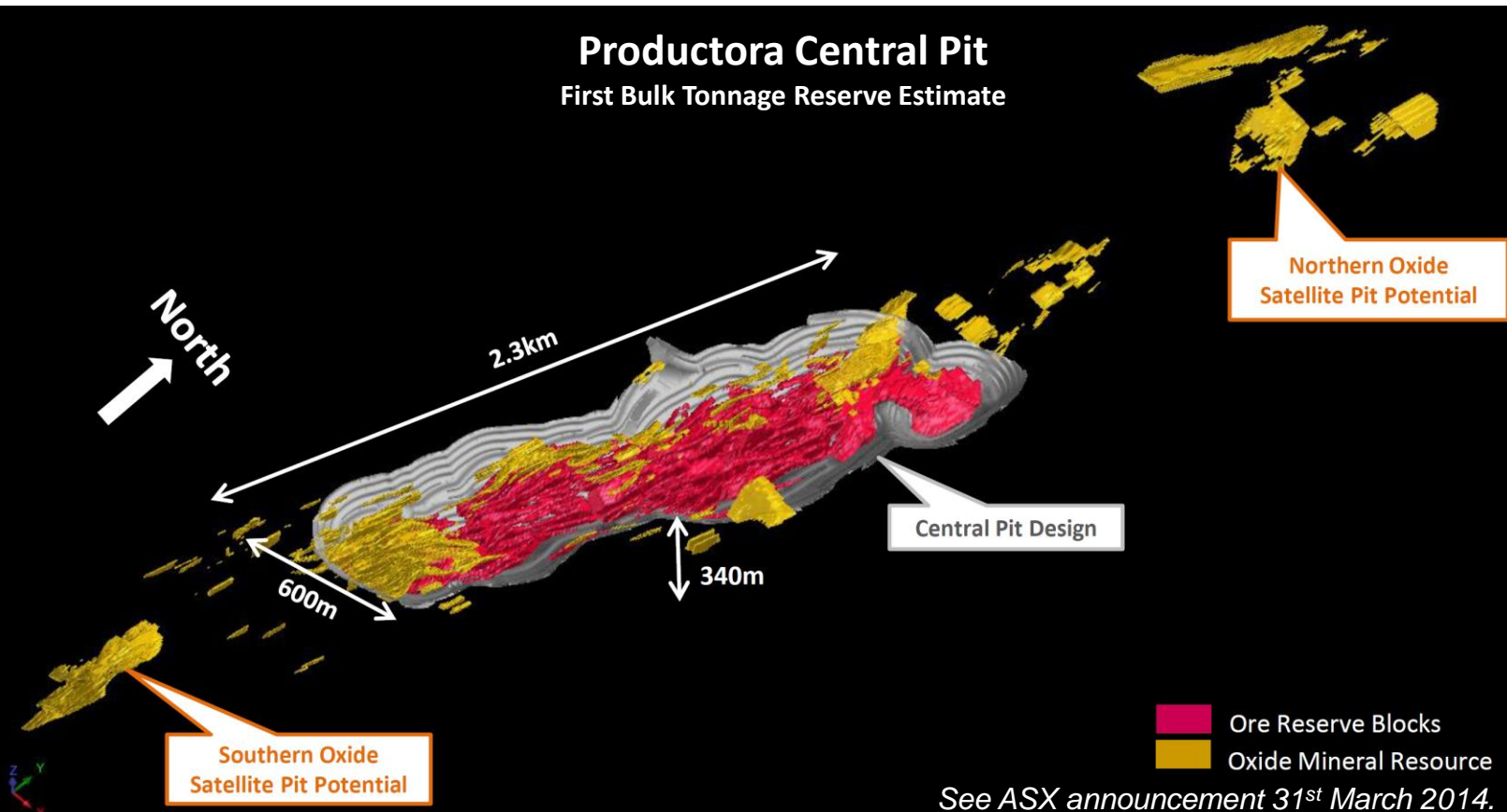
6.3% Lundin Mining

5.4% Exploration Capital Partners  
(affil Sprott)

# Productora Maiden Reserve

## Underpins Initial 9 Year Mine Life

- Open pit Ore Reserve of **90.5Mt grading 0.48% copper, 0.11g/t gold and 172ppm molybdenum**
- **Conservative Ore Reserve estimate-** conservative recoveries applied to transitional ore
- **Central pit only-** No oxide and no transitional ore used to drive pit,



See ASX announcement 31<sup>st</sup> March 2014.

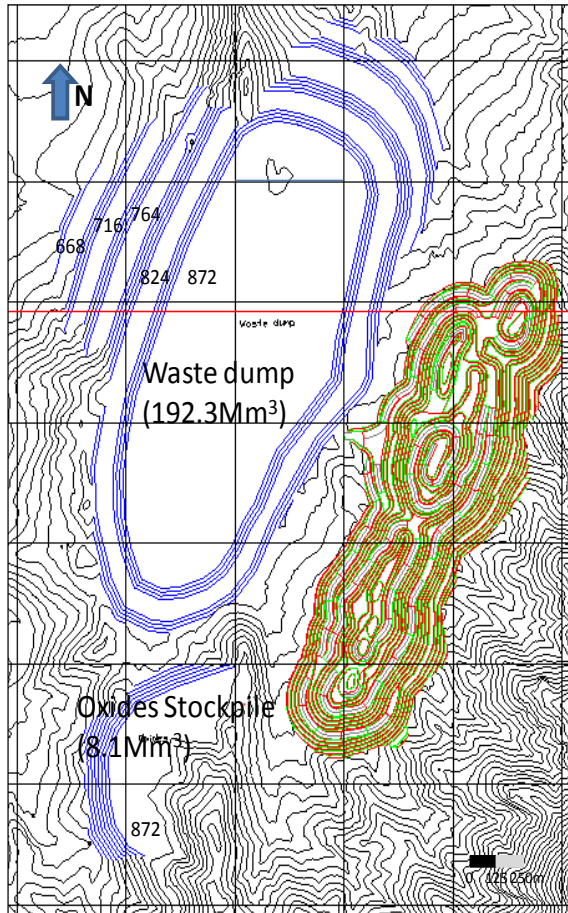
# Pit Design and Mine Schedule

## Reserve Growth Expected from PFS Completion

### Mining summary

Period	Fresh	Transitional	Waste	Total
	('000 t)	('000 t)	('000 t)	('000 t)
A0	2	174	26,824	27,000
A1	8,228	2,596	51,777	62,600
A2	10,675	325	51,600	62,600
A3	8,401	2,599	51,600	62,600
A4	10,045	955	51,553	62,554
A5	10,087	913	43,750	54,750
A6	10,895	105	43,728	54,728
A7	8,487	2,513	43,702	54,702
A8	10,964	36	14,314	25,314
A9	2,505		2,386	4,891
<b>Total</b>	<b>80,289</b>	<b>10,217</b>	<b>381,234</b>	<b>471,739</b>

- 27 Mt of pre-stripping required (with oxide ore treated as waste)
- 30kt per day plant feed (11Mtpa)
- 4:1 strip ratio (waste:ore), **3.5:1 strip ratio if oxide material included**
- Growth in reserve expected through:
  - Throughput optimisation
  - Completion of metallurgy test work, and
  - Inclusion of transitional and oxide ore in optimisations



**Productora Central Pit and Waste Dump Design**

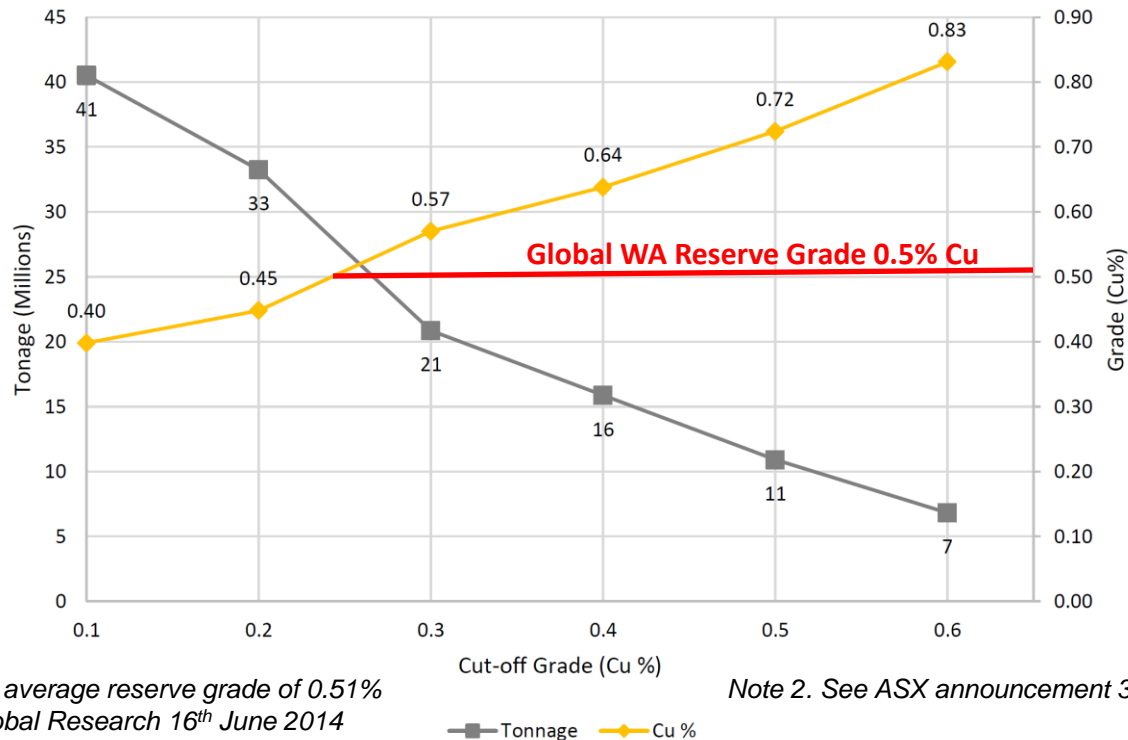


# Productora Oxide Opportunity

## Not Previously Considered

- **Large scaleable copper oxide project identified** with study underway
- **In-pit oxide resource of 15.4Mt grading 0.58% copper** currently treated as waste
- Potential to reduce strip ratio, pre-strip capital expenditure and add **another front-end revenue stream**

Productora Classified Oxide Resource  
Grade Tonnage Curve



Note 1. Global weighted average reserve grade of 0.51% copper. Source UBS Global Research 16<sup>th</sup> June 2014

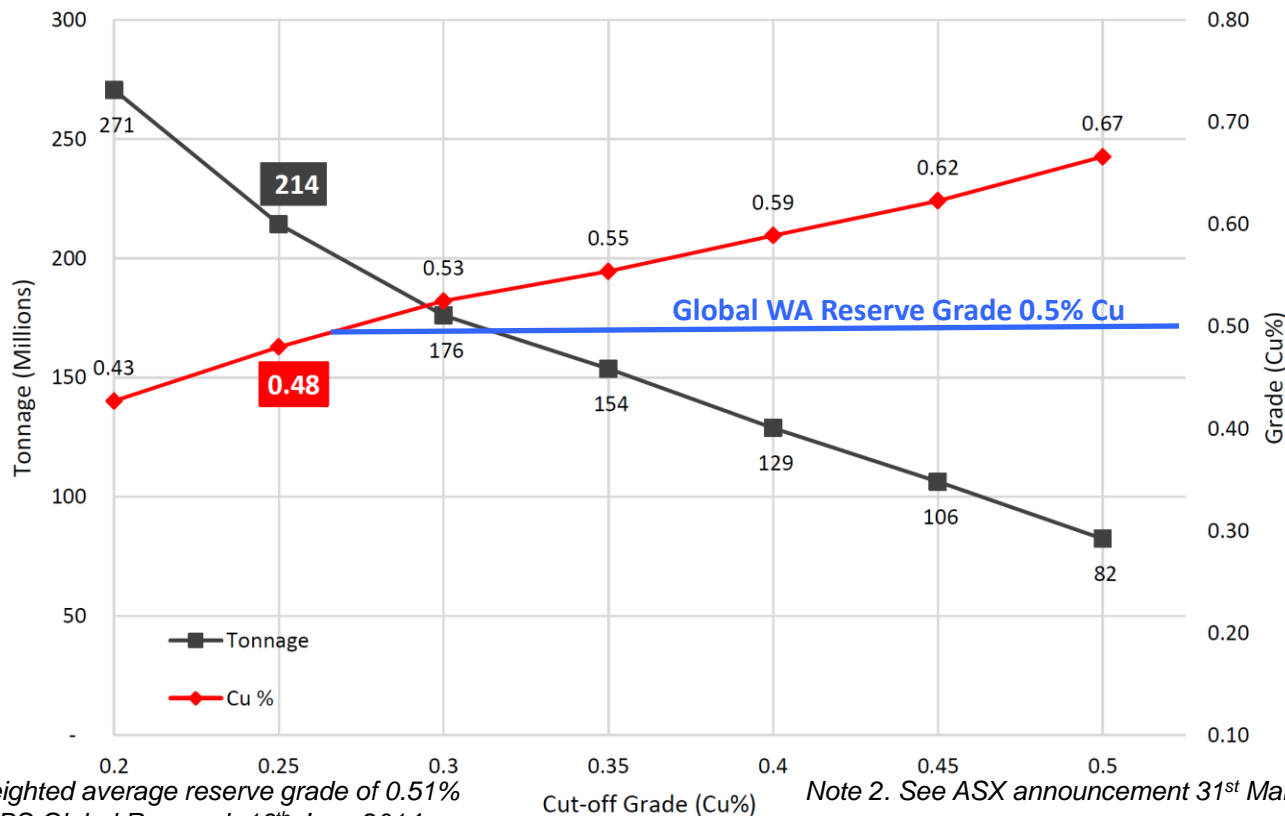
Note 2. See ASX announcement 31<sup>st</sup> March 2014.

# Productora Resource Upgrade

## Bulk Tonnage Resource Grows to Over 1Mt Copper

- **Over 95,000m of additional drilling** incorporated from 2013
- **Robust definition-** 78% Indicated and 22% Inferred classification

Productora Grade Tonnage Curve

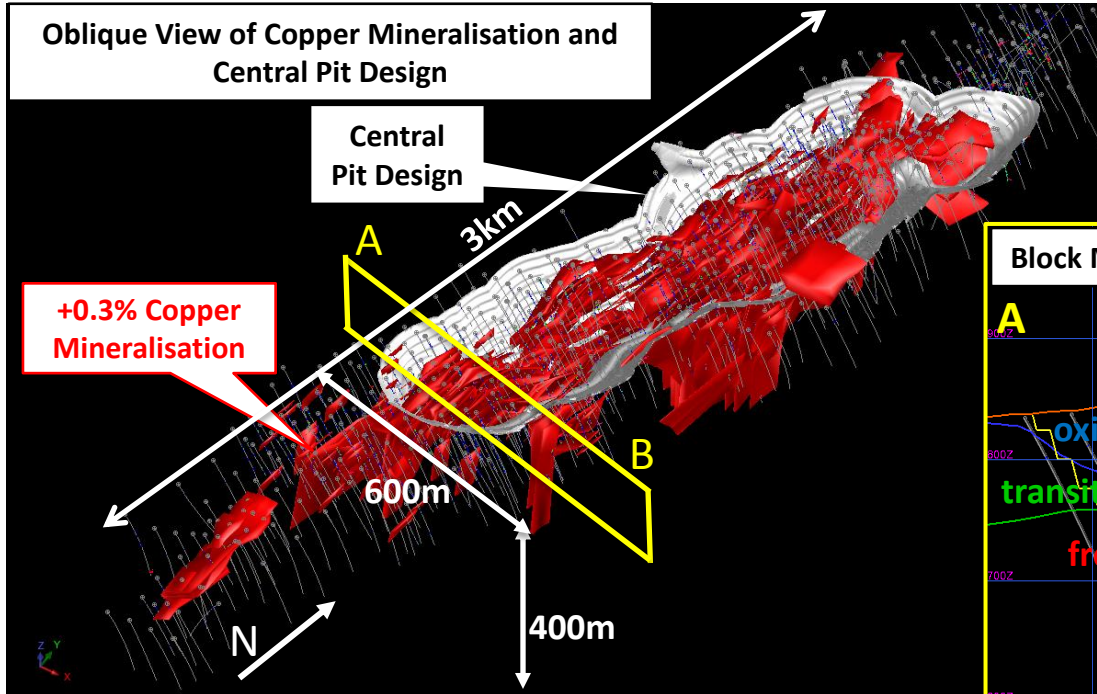


Note 1. Global weighted average reserve grade of 0.51% copper. Source UBS Global Research 16<sup>th</sup> June 2014

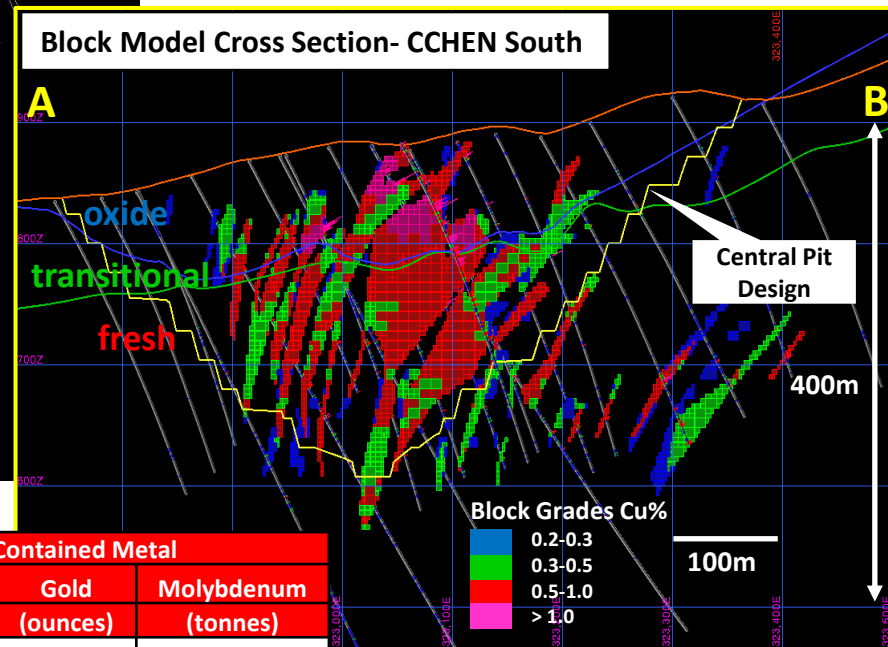
Note 2. See ASX announcement 31<sup>st</sup> March 2014.

# Productora Mineral Resource

## Intensive Drilling and Leading-Edge Technical Approach



- Further growth targeted in-pit and along strike

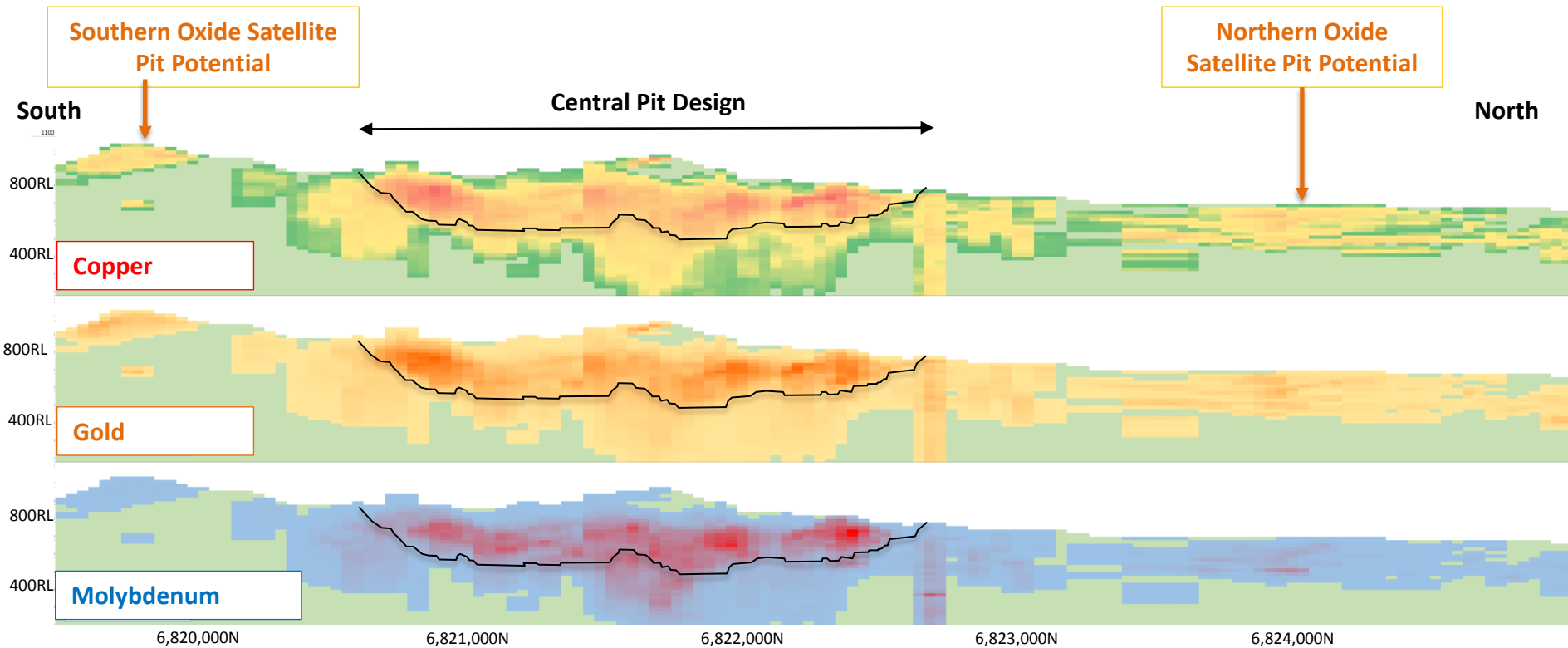


Classification (+0.25% Cu)	Tonnage (Mt)	Grade			Contained Metal		
		Copper (%)	Gold (g/t)	Molybdenum (ppm)	Copper (tonnes)	Gold (ounces)	Molybdenum (tonnes)
Indicated	158.6	0.50	0.11	152	799,000	540,000	24,000
Inferred	55.6	0.41	0.08	97	229,000	133,000	5,000
<b>Total</b>	<b>214.3</b>	<b>0.48</b>	<b>0.10</b>	<b>138</b>	<b>1,029,000</b>	<b>675,000</b>	<b>29,000</b>

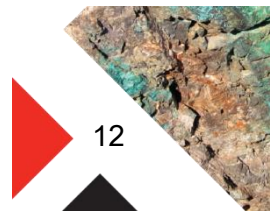
Note. Figures in the above table are rounded, reported to two significant figures, and classified in accordance with the Australian JORC code 2012 guidance on mineral resource reporting. See ASX announcement 31<sup>st</sup> March 2014.

# Resource Summary

## Drilling Focus in Central Pit Area to Date



- Contained metal distribution for copper, gold and molybdenum projected in long section along approximately 5 kilometres of strike extent at Productora
- **Copper oxide satellite pit potential identified** in optimisation studies



# Resource and Reserve Growth

## New Phase of Discovery at Productora

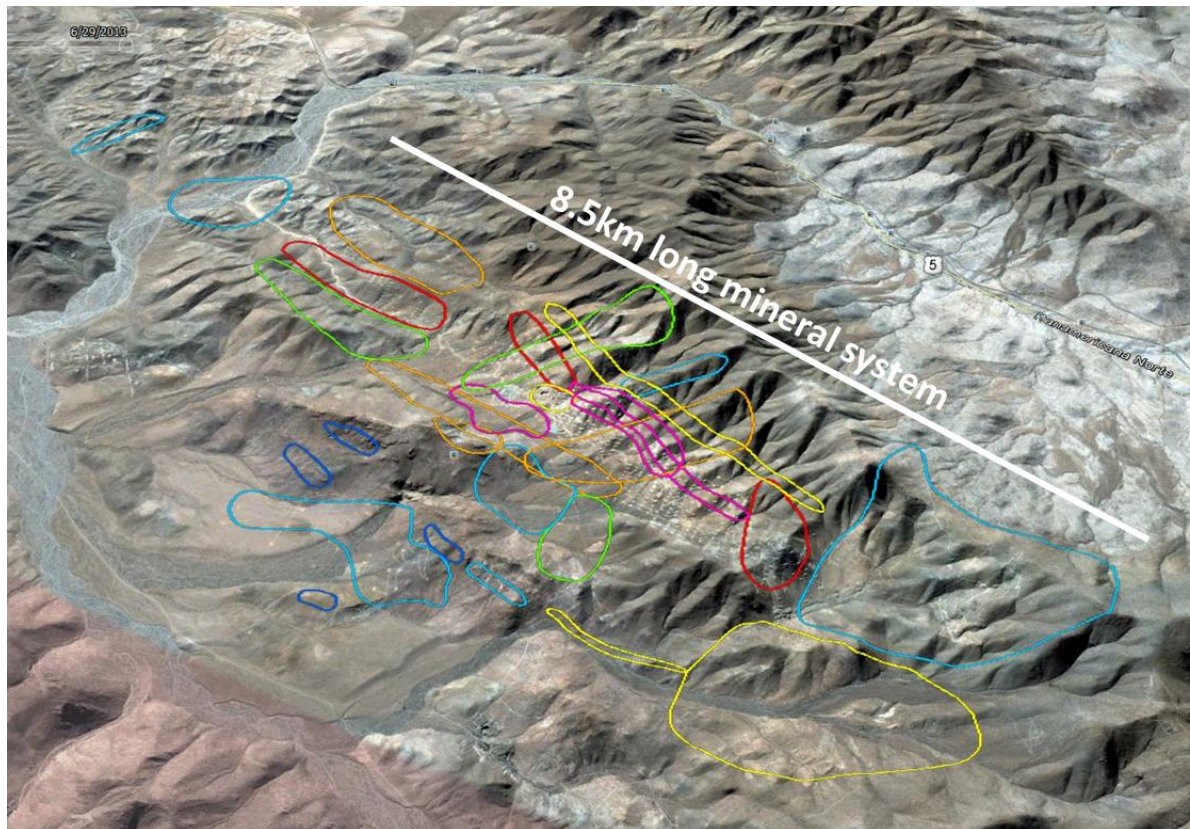
- **Advanced targeting techniques** developed- predictive model
- **Discovery of high-grade Habanero and Rocoto zones** during late 2013
- **Rate of discovery increasing**
- Reserve growth targets being prioritised to support targeted PFS mine life in 1H 2015



# Resource and Reserve Growth

## Unlocking Productora's Potential

- **3D alteration indices & predictive exploration targeting model** developed for Productora
- **2 significant new exploration discoveries** attributed to new targeting model (Habanero & Rocoto)

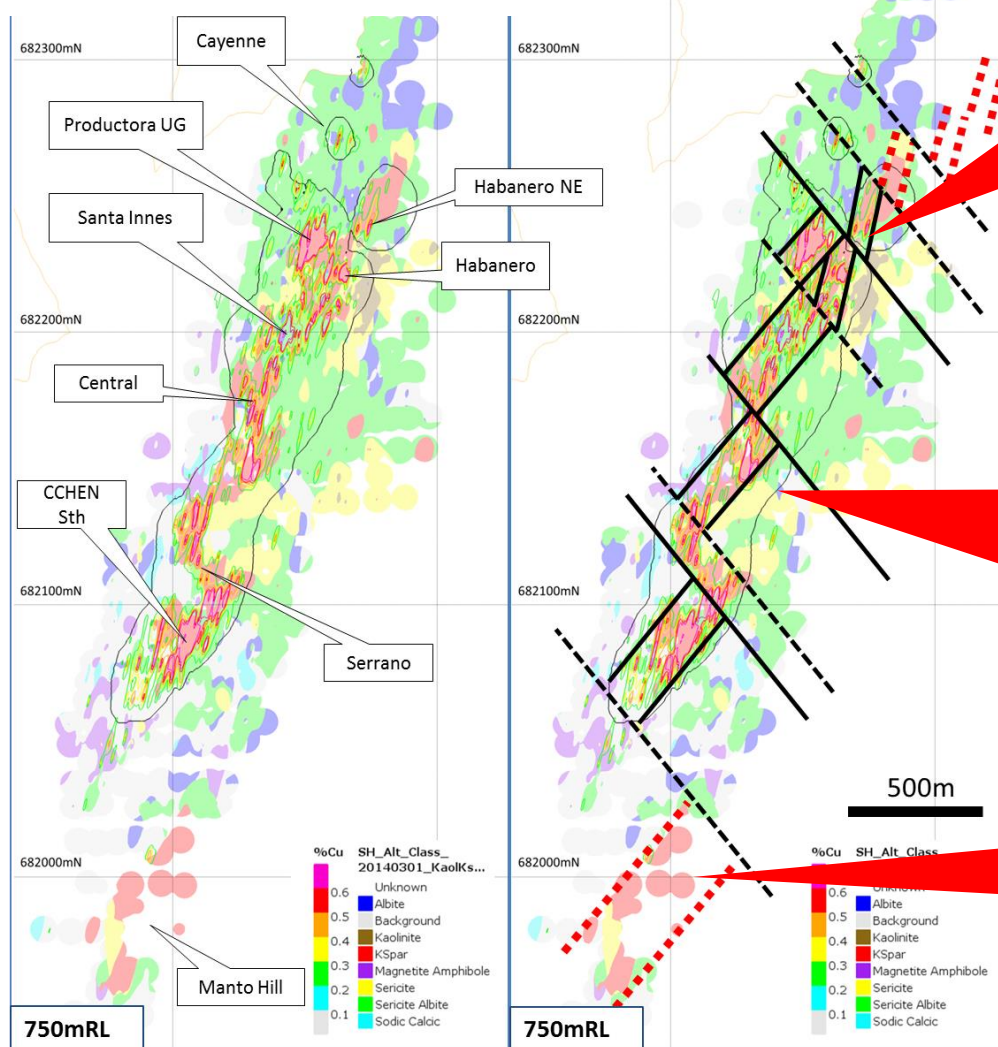


- **9 reserve growth targets** ranked for priority drilling
- **19 regional exploration targets** ranked & prioritised for drill assessment
- Larger mineral system not yet explored

# Resource and Reserve Growth

## Alteration and Copper Distribution

Alteration Model 750mRL Level Slice



### Habanero Discovery

- Previously considered waste
- Not closed off to NE, dips East- not West!
- Best Intercept:  
181m@ 1.0% Cu, 0.3g/t Au, including:  
71m@ 1.6% Cu, 0.4g/t Au

### Initial Rocoto Discovery

- At depth (650mRL), partially within pit
- Alteration vector identified large target zone
- Open over 800m strike length
- Discovery intercept at end of 2013:  
97m@ 0.6% Cu, 0.1g/t Au, including:  
25m@ 1.1% Cu, 0.2g/t Au

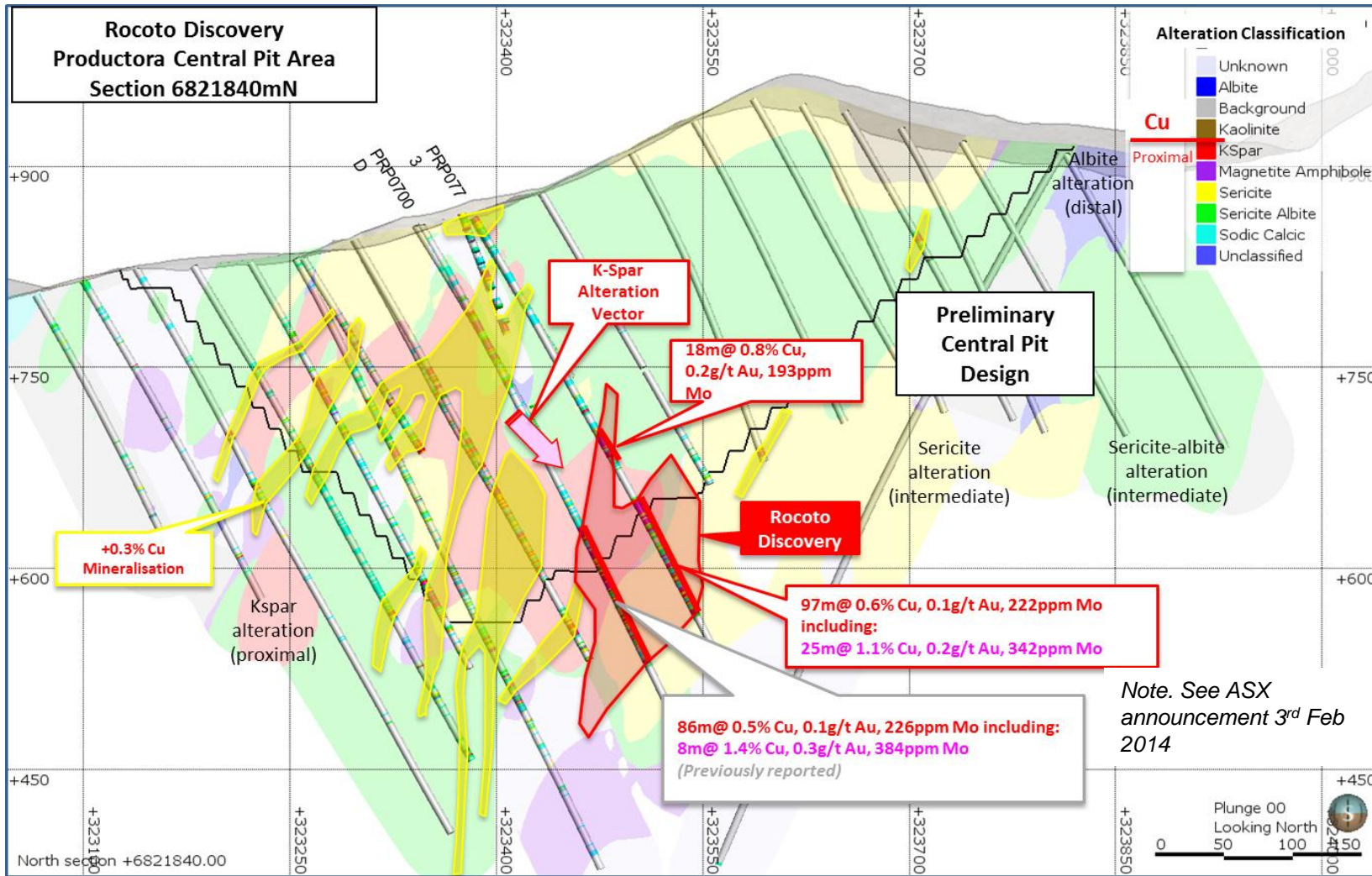
### Manto Hill Target

- Largest Alteration target identified
- Southern extension of Productora
- 9 Alteration targets to test in or adjacent to pit design

Note. See ASX announcements  
8<sup>th</sup> Oct 2013 and 3<sup>rd</sup> Feb 2014

# Resource and Reserve Growth

## Rocoto Resource Definition Commenced





# Resource and Reserve Growth

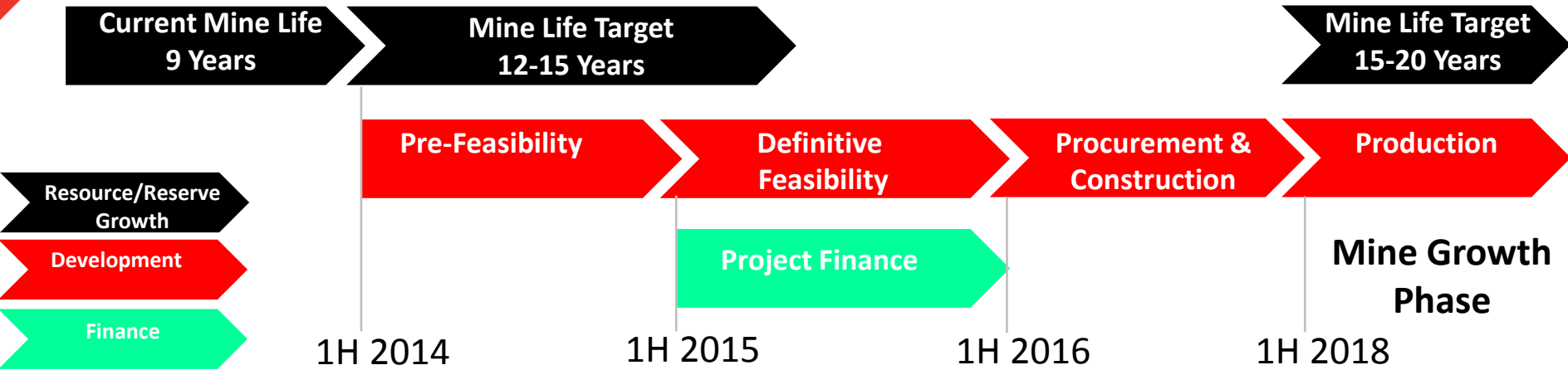
## Growth from Two Fronts Over Coming 12 months

1. **PFS remaining study work-** capture and optimisation of oxide and transitional ore
2. **33,000m drilling programme-** focused on high-value, reserve growth targets
  - **Approach to growth-** “Smarter not Harder”
  - **Outcome targeted-** PFS level, optimised bulk tonnage copper project with demonstrated long mine life

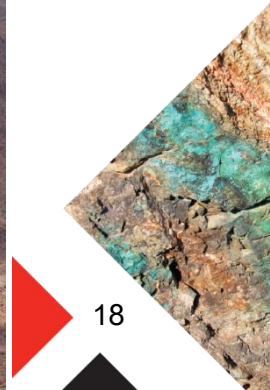


Dedicated contractor drilling fleet- State of art RC/DD drilling advantage

# Productora Development Targeted Timeline

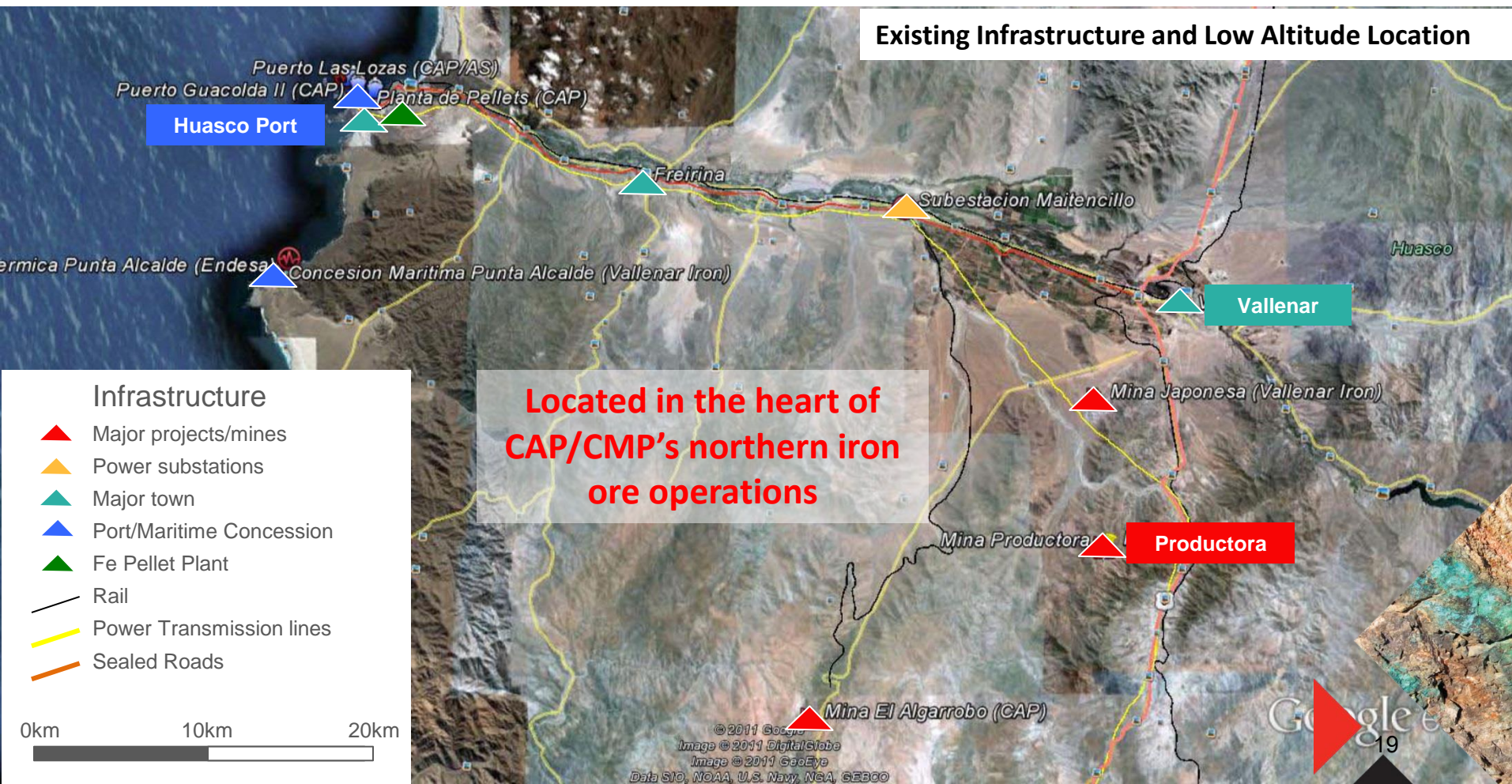


Productora Central Pit Area- 3km field of view



# Productora Infraestructure Leverage

Reduce Time and Cost of Development and Operations



# News Flow

## Strong News Aligned with Strengthening Copper Market

- Execution of Joint Infrastructure MOU with CMP
- Drill result announcements ongoing over the coming 9 months
- PFS study announcements ongoing over the coming 12 months
- Exploration at growth projects- Frontera, Banderas and Los Mantos
- Productora Mineral Resource revision expected in 1H 2015
- Productora Ore Reserve revision expected in 1H 2015
- Productora PFS announcement and DFS Funding 1H 2015
- Commencement of DFS 1H 2015

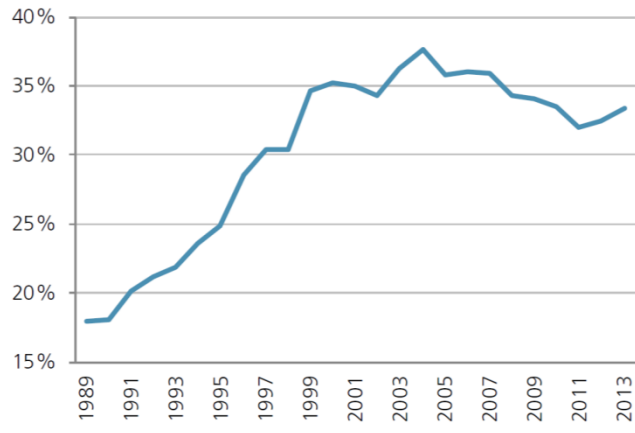
2H 2014

1H 2015

# Chilean Copper Sector

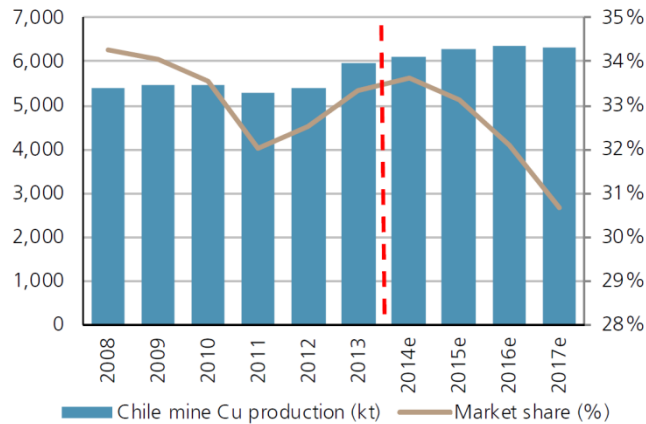
## Largest Global Copper Producer

Chilean share of world copper production



Source: UBS estimates

Mined copper production and World Share



Source: UBS estimates

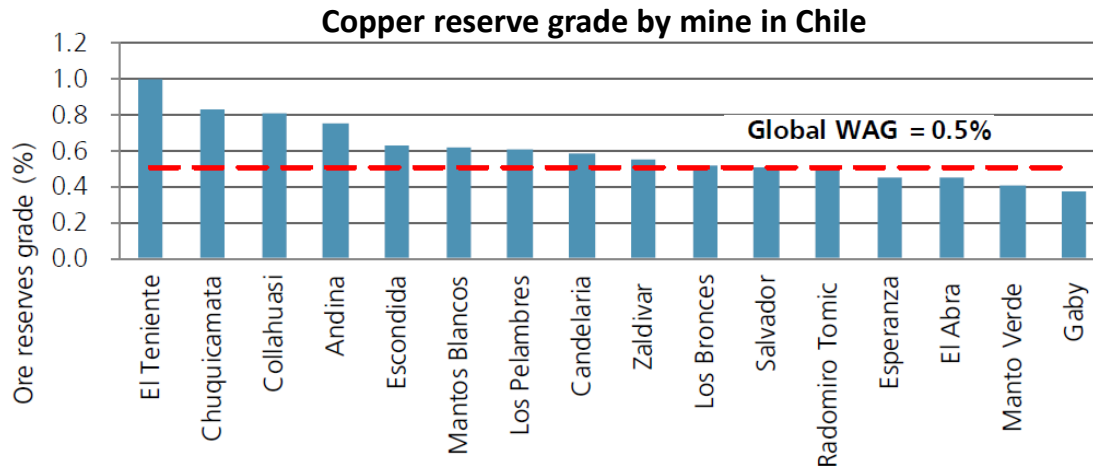
Key Chilean Copper Mines- 2013 Production (concentrate and SXEW)

Mine	kt Cu
Escondida	1 191
Chuquibambilla	468
El Teniente	457
Collahuasi	445
Los Pelambres	419
Los Bronces	416
Radomiro Tomic	290
Andina	237
Esperanza	186
Candelaria	183
El Abra	156
Spence	151
Gaby	128
Zaldivar	128
El Tesoro	103
Andacollo	81
Lomas Bayas	74
Manto Verde	57
Quebrada Blanca	56
Mantos Blancos	55
Salvador	52
<b>Total</b>	<b>5,332</b>

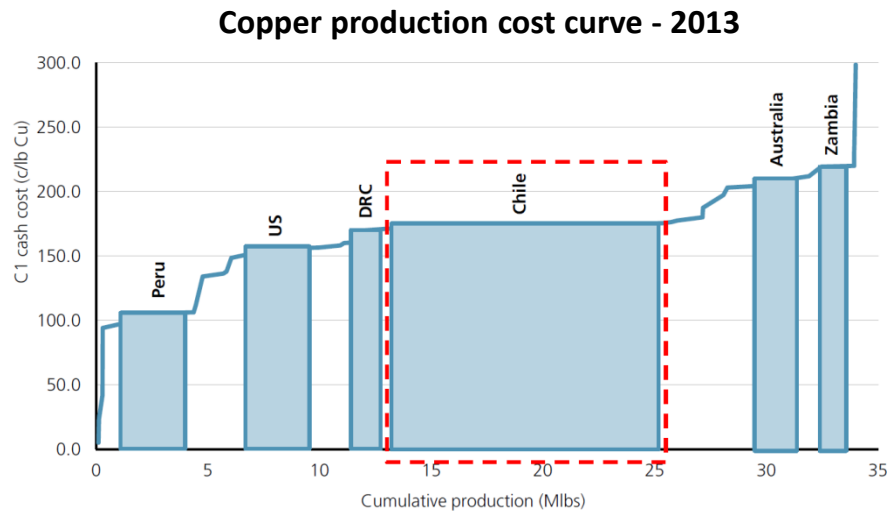
Source: WoodMac, UBS estimates

# Chilean Copper Sector

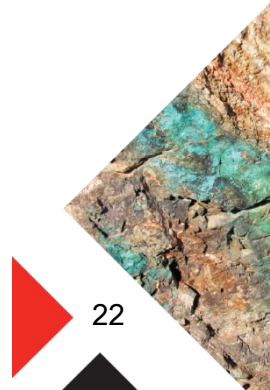
## Grades and Costs



Source: Wood Mackenzie, UBS estimates



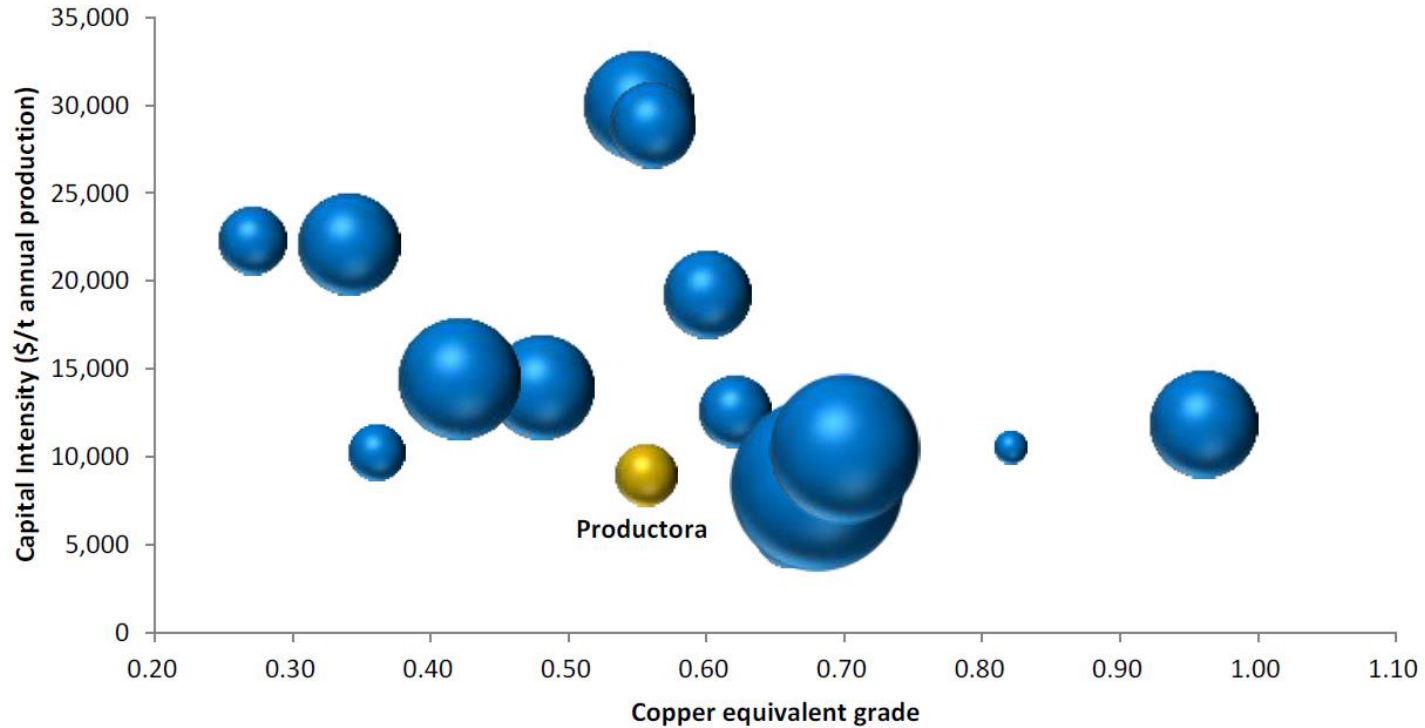
Source: Wood Mackenzie, UBS estimates



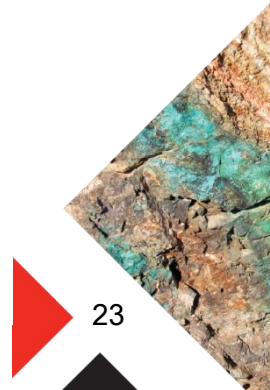
# Chilean Copper Sector

## Capital Intensity and Cu Eq Grade

Chilean copper development projects (bubble size represents projected copper production)



Source: Argonaut / Bloomberg



# Qualifying Statements Ore Reserves

## Productora Ore Reserve Statement, 31<sup>st</sup> March 2014

Ore Type	Category	Tonnage (Mt)	Grade			Contained Metal			Payable Metal		
			Copper (%)	Gold (g/t)	Molybdenum (ppm)	Copper (tonnes)	Gold (ounces)	Molybdenum (tonnes)	Copper (tonnes)	Gold (ounces)	Molybdenum (tonnes)
Transitional	Probable	10.2	0.54	0.10	128	55,000	34,000	1,300	27,000	13,000	1,000
Fresh	Probable	80.3	0.47	0.11	177	378,000	274,000	14,200	323,000	139,000	8,000
<b>Total</b>	<b>Probable</b>	<b>90.5</b>	<b>0.48</b>	<b>0.11</b>	<b>172</b>	<b>433,000</b>	<b>308,000</b>	<b>15,500</b>	<b>350,000</b>	<b>152,000</b>	<b>9,000</b>

Note 1: Figures in the above table are rounded, reported to two significant figures, and classified in accordance with the Australian JORC code 2012 guidance on mineral resource and ore reserve reporting. Note 2: Average recoveries applied to Probable Ore Reserve estimate are: Fresh Cu- 88.8%; Fresh Au - 65%; Fresh Mo - 60%, Transitional Cu- 50%, Transitional Au- 50% and Transitional Molybdenum- 50%. Payability factors applied for Cu- 96.5%, Au- 78% and Mo- 98%



# Qualifying Statements

## Mineral Resources

### Productora Mineral Resource Statement, 31<sup>st</sup> March 2014

Classification (+0.25% Cu)	Tonnage (Mt)	Grade			Contained Metal		
		Copper	Gold	Molybdenum	Copper	Gold	Molybdenum
		(%)	(g/t)	(ppm)	(tonnes)	(ounces)	(tonnes)
<b>Indicated</b>	158.6	0.50	0.11	152	799,000	540,000	24,000
<b>Inferred</b>	55.6	0.41	0.08	97	229,000	133,000	5,000
<b>Total</b>	<b>214.3</b>	<b>0.48</b>	<b>0.10</b>	<b>138</b>	<b>1,029,000</b>	<b>675,000</b>	<b>29,000</b>

Note. Figures in the above table are rounded, reported to two significant figures, and classified in accordance with the Australian JORC code 2012 guidance on mineral resource reporting.

### Frontera Mineral Resource Statement, 11<sup>th</sup> March 2014

Frontera Resource					
Classification (>0.25% Copper)	Tonnage	Grade		Contained Metal	
		Coppe (%)	Gold (g/t)	Copper (tonnes)	Gold (ounces)
Indicated	16.1	0.4	0.2	61,000	116,000
Inferred	34.4	0.4	0.2	125,000	239,000
<b>Total</b>	<b>50.5</b>	<b>0.4</b>	<b>0.2</b>	<b>187,000</b>	<b>356,000</b>

Note: Figures in the above table are rounded, reported to one significant figure, and classified in accordance with the Australian JORC code 2012 guidance on mineral resource reporting.

# Qualifying Statements

## Competent Person's Statement

### **Exploration Results**

Exploration information in this presentation is based upon work undertaken by Mr Christian Easterday, the Managing Director and a full-time employee of Hot Chili Limited whom is a Member of the Australasian Institute of Geoscientists (AIG). Mr Easterday has sufficient experience that 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' (JORC Code). Mr Easterday consents to the inclusion in the presentation of the matters based on their information in the form and context in which it appears.

### **Mineral Resources**

The information in this presentation that relates to the Productora Mineral Resource is based on information compiled by Mr J Lachlan Macdonald and Mr N Ingvar Kirchner. Mr Macdonald is a full-time employee of Hot Chili Ltd. Mr Macdonald is a Member of the Australasian Institute of Mining and Metallurgy. Mr Kirchner is employed by Coffey Mining Pty Ltd (Coffey). Coffey has been engaged on a fee for service basis to provide independent technical advice and final audit for the Productora Mineral Resource estimate. Mr Kirchner is a Fellow of the Australasian Institute of Mining and Metallurgy and is a Member of the Australian Institute of Geoscientists. Both Mr Macdonald and Mr Kirchner have sufficient experience that is relevant to the style of mineralisation and type of deposit under consideration and to the activity being undertaken 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' (the JORC Code 2012). Both Mr Macdonald and Mr Kirchner consent to the inclusion in the presentation of the matters based on their information in the form and context in which it appears.

### **Ore Reserves**

The information in this presentation that relates to Productora Ore Reserves is based on information compiled by Mr Carlos Guzmán who is a Fellow of the Australasian Institute of Mining and Metallurgy (FAusIMM), a Registered Member of the Chilean Mining Commission (RM- a 'Recognised Professional Organisation' within the meaning of the JORC Code 2012) and a full time employee of NCL Ingeniería y Construcción SpA. NCL has been engaged on a fee for service basis to provide independent technical advice and final audit for the Productora Ore Reserve estimate. Mr. Guzmán 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 Guzmán consents to the inclusion in the presentation of the matters based on their information in the form and context in which it appears.

# Corporate Register

## Researching Broker



## Hot Chili Limited

ACN 130 955 725

[www.hotchili.net.au](http://www.hotchili.net.au)

ASX code: **HCH**

## Lead Broker



## Financial Advisor



## Legal Advisors



CorreaGubbins.



“ the company is positioned as one of the leading ASX emerging copper producers”

## **Hot Chili Limited**

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**ASX: HCH**