

23 August 2011

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# Highlights



- EPS of 70.6c up 54.1% over 2010 H1, reflecting higher production volumes and commodity prices
- Interim dividend of 8 cents (2010 H1 4 cents), rebasing annual ordinary dividend to 20 cents level
- Continued ramp-up progress at Esperanza
- Antucoya project feasibility study substantially complete
- Strong pipeline of further growth opportunities, with pre-feasibility studies at Sierra Gorda and Los Pelambres, as well as international prospects
- Financial position remains strong









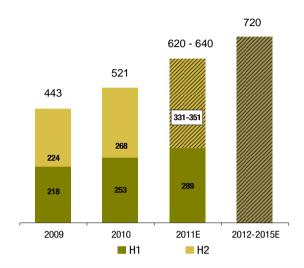


2011 Half Year Results Presentation

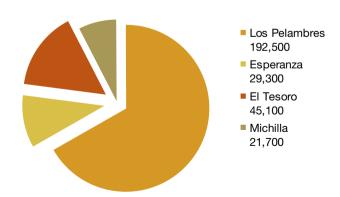
# Production analysis



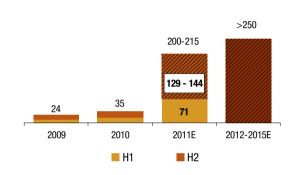
## **Copper production ('000 tonnes)**



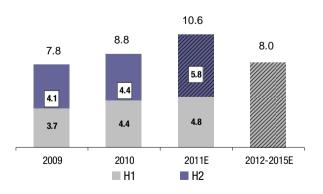
# 2011 H1 Copper production by company ('000 tonnes) Total: 288,500 tonnes



### **Gold production ('000 ounces)**



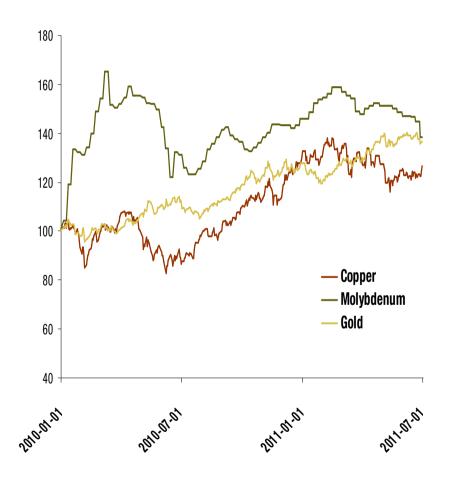
#### **Molybdenum production ('000 tonnes)**



# Market drivers – commodity prices



### Commodity prices (Base 100 = 1 January, 2010)



- Copper price expected to remain strong in 2011 H2, but with higher downside risk due to recent global economic developments
  - Good supply-demand fundamentals
  - Low level of inventories
- Copper concentrates market expected to tighten in 2011 Q3, with spot TC/RCs trending down and heavier deficit expected in coming years
- Gold prices have continued to strengthen with strong investment demand and safe-haven status
- Although Chinese exports and economic slowdown could add downside pressure to prices, molybdenum market is expected to remain stable
- Positive outlook for commodity prices for remainder of 2011, although global economic uncertainty creates downside risk

# Realised prices and mark-to-market



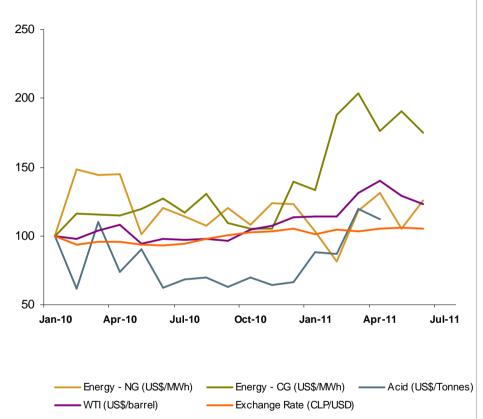
2010 H1 2010 H2 2010 FY	2011 H1
	_9
Copper	
LME average price (cUS\$/lb) 323.4 350.4 342.0	426.3
Realised price (cUS\$/lb) 301.9 405.3 359.3	422.7
Molybdenum	
Market average price (US\$/Ib) 16.1 15.4 15.7	17.0
Realised price (US\$/lb) 16.8 15.6 16.2	17.0
Gold	
Market average price (US\$/oz) 1,152 1,297 1,226	1,445
Realised price (US\$/oz) 1,155 1,303 1,237	1,491

- Higher realised prices in 2011 H1 compared with 2010 H1 and 2010 H2
- Reflects increase in underlying market prices for copper, molybdenum and gold
- No significant impact from provisional pricing and mark-to-market adjustments in period
- Hedged copper production in 2011 H1 represented 7% of Group copper production for the period

## Market cost – recent trends



## All prices (Base 100 = January 01, 2010)



2011 H1	2010 FY	2010 H2	2010 H1	
				Energy
111	121	116	127	Northern Grid (US\$/MHh)
206	135	137	134	Central Grid (US\$/MHh)
103	76	68	84	Sulphuric acid (US\$/tonnes)
98	79	80	78	WTI oil (US\$/barrel)
476	510	495	525	Exchange rate (\$/US\$)
	79	80	78	Sulphuric acid (US\$/tonnes) WTI oil (US\$/barrel)

- Continued pressure on prices across a range of different inputs
- Exposure to market prices for inputs partly mitigated by:
  - fixed energy prices for 2011-12 under Los Pelambres' main contract
  - offtake contracts for acid with new Noracid plant
  - currency hedging at Michilla
- Higher resulting cash costs more than offset by increased commodity prices

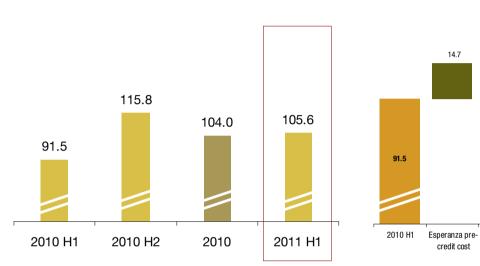
<sup>\*</sup> Exchange rate is in the inverted axis. See page 32 for further details

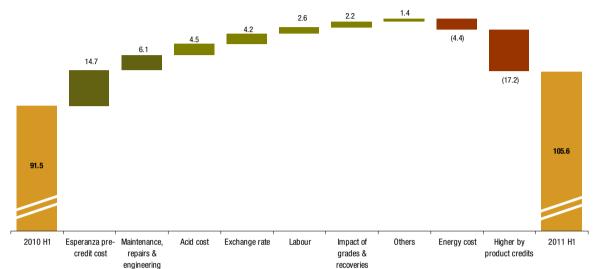
# Cash cost analysis



#### **Group weighted average net of by-products (c/lb)**

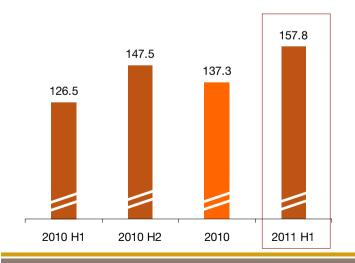
#### Weighted average cash cost including by-product 2010 H1 - 2011 H1 (c/lb)

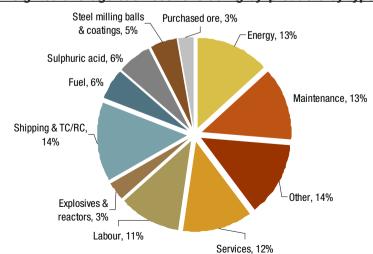




### Group weighted average (before deducting by products) (c/lb)

### 2011 H1 weighted average cash cost excluding by-products by type (c/lb)







2011 Half Year Results Presentation

# Esperanza







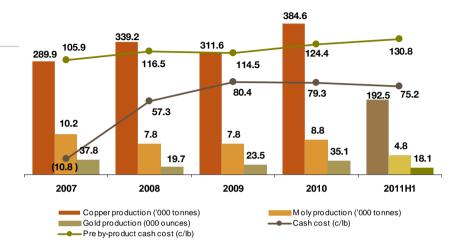
- 2011 H1 production
  - 29,300 tonnes of copper
  - 52,700 ounces of gold
  - net cash costs of US121.9 cents per pound
- Continued progress with ramp-up, which is planned to be completed at the end of 2011
- Focus is on maximising the efficiency of the milling process and the reliability of the sea-water pumping system
- 2011E FY production
  - 80,000 to 100,000 tonnes of copper
  - 160,000 to 175,000 ounces of gold
  - Net cash costs of approximately 120 cents per pound

# Los Pelambres



## • 2011 H1 production

- 192,500 tonnes of copper
- 4,800 tonnes of molybdenum
- 18,100 ounces of gold
- net cash costs of US75.2 cents per pound
- Production affected by lower ore grade in Q1, which has recovered in Q2 and should improve production in H2
- 2011E FY production
  - 407,000 tonnes of copper
  - 10,600 tonnes of molybdenum
  - 37,000 ounces of gold
  - Net cash costs of approximately 81 cents per pound
- Significant resource base could allow for further expansion in the future





# Other operations



#### El Tesoro

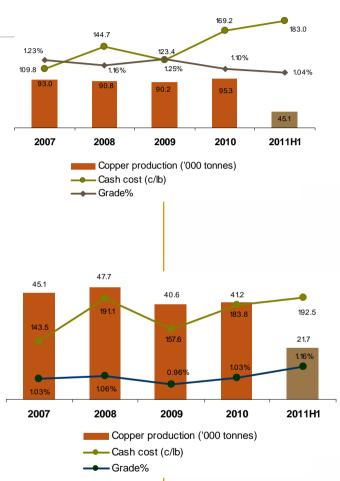
- 2011 H1 production of 45,100 tonnes at cash costs of 183.0 cents per pound
- Improved production costs in Q2 with full resumption of production from Tesoro NE
- Mirador ahead of schedule and cathode production expected during H2
- 2011E FY production of 96,000 tonnes, with cash costs estimate of approximately 168 cents
- Ore feed from Tesoro Central, Tesoro North-East and Run-of-Mine leaching

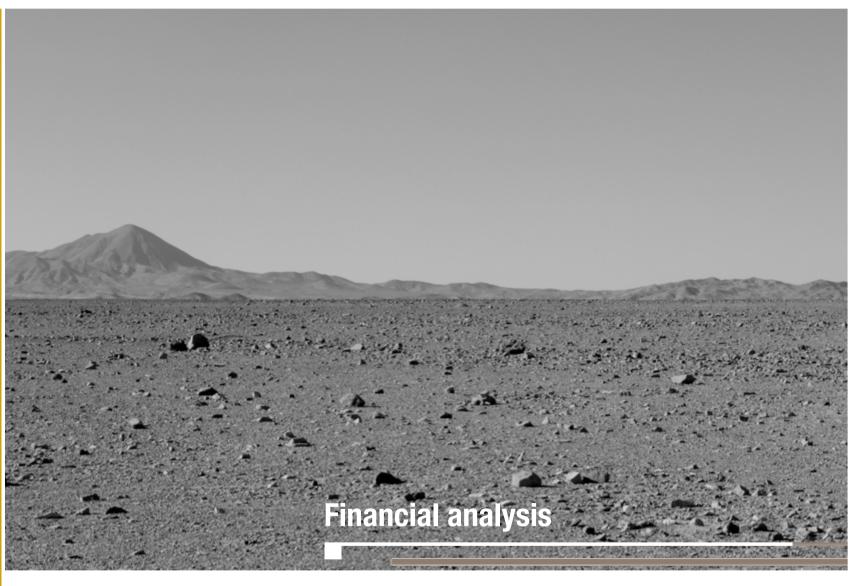
### Michilla

- 2011 H1 production of 21,700 tonnes at cash costs of 192.5 cents per pound
- 2011E FY production of 40,000 tonnes, and 2011E cash costs of approximately 212 cents
- Mine plan extended to 2015 during 2011 H1

## Transport and Water

Increased volumes and results compared with 2010 H1





2011 Half Year Results Presentation

# Financial Highlights – 2011 H1

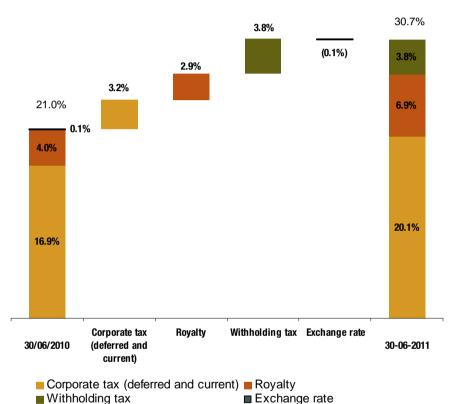


<u>2011 H1</u>	2010 H1	11H1 vs. 10H1		11H1 vs. 10H1 2010 H2 11H1 vs. 10H2		vs. 10H2	<u>2010</u>
3,054	1,761	<b>†</b>	73.4%	2,816	<b>†</b>	8.5%	4,577
1,947	1,059	<b>†</b>	83.8%	1,713	<b>†</b>	13.6%	2,772
1,692	932	<b>†</b>	81.5%	1,641	<b>†</b>	3.1%	2,573
1,172	737	<b>†</b>	59.1%	1,084	<b>†</b>	8.1%	1,821
70.6	45.8	<b>†</b>	54.1%	60.9	<b>†</b>	15.9%	106.7
8	4	<b>†</b>	100%	12			16
-	-	-		100	-		100
	3,054 1,947 1,692 1,172 70.6	3,054 1,761 1,947 1,059 1,692 932 1,172 737 70.6 45.8	3,054 1,761 ↑  1,947 1,059 ↑  1,692 932 ↑  1,172 737 ↑  70.6 45.8 ↑	3,054       1,761       ↑       73.4%         1,947       1,059       ↑       83.8%         1,692       932       ↑       81.5%         1,172       737       ↑       59.1%         70.6       45.8       ↑       54.1%	3,054       1,761       ↑       73.4%       2,816         1,947       1,059       ↑       83.8%       1,713         1,692       932       ↑       81.5%       1,641         1,172       737       ↑       59.1%       1,084         70.6       45.8       ↑       54.1%       60.9         8       4       ↑       100%       12	3,054       1,761       ↑       73.4%       2,816       ↑         1,947       1,059       ↑       83.8%       1,713       ↑         1,692       932       ↑       81.5%       1,641       ↑         1,172       737       ↑       59.1%       1,084       ↑         70.6       45.8       ↑       54.1%       60.9       ↑         8       4       ↑       100%       12	3,054       1,761       ↑       73.4%       2,816       ↑       8.5%         1,947       1,059       ↑       83.8%       1,713       ↑       13.6%         1,692       932       ↑       81.5%       1,641       ↑       3.1%         1,172       737       ↑       59.1%       1,084       ↑       8.1%         70.6       45.8       ↑       54.1%       60.9       ↑       15.9%         8       4       ↑       100%       12

## Effective tax rates



#### Effective tax (%)



 2010 H1
 2011 H1

 Profit before tax (MUS\$)
 932.1
 1,691.9

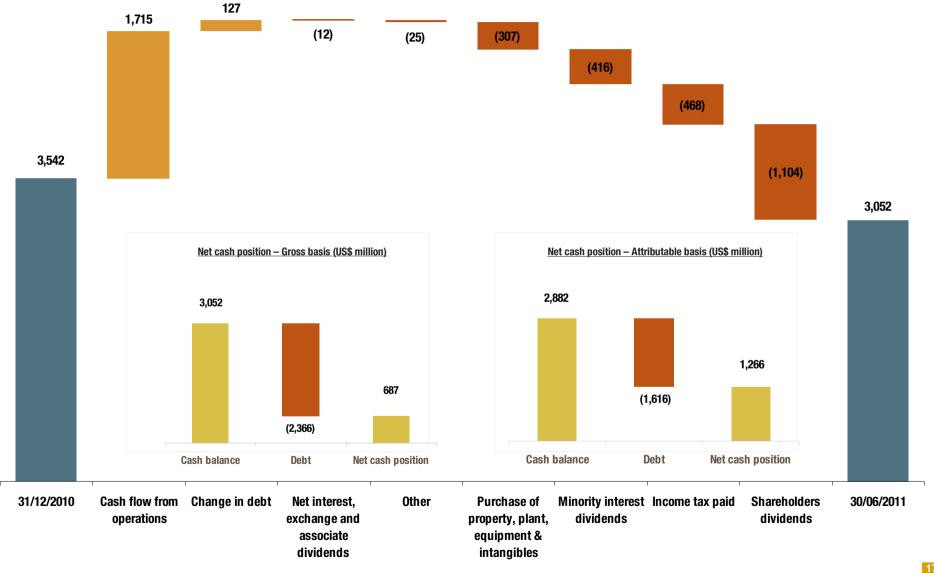
 Income tax expense (MUS\$)
 195.6
 519.6

 Effective tax rate
 21.0%
 30.7%

- Legislative changes announced in 2010
  - To contribute to post-earthquake reconstruction costs
  - Temporary increase in corporation tax rates for 2011 2012
  - Changes to mining tax from 2010
- Increased level of withholding tax provision in 2011 H1
  - Reflects funding requirements for 2011 dividends
- 2011 H1 effective tax rate is 30.7% (2010 HY 21.0%; 2010 FY – 29.3%)

# Cash flow 2011 H1 (US\$ million)







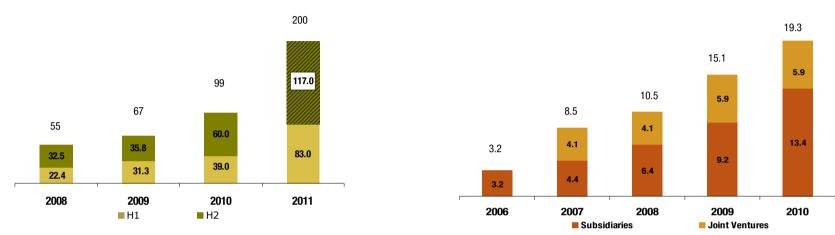
2011 Half Year Results Presentation

# Growth opportunities

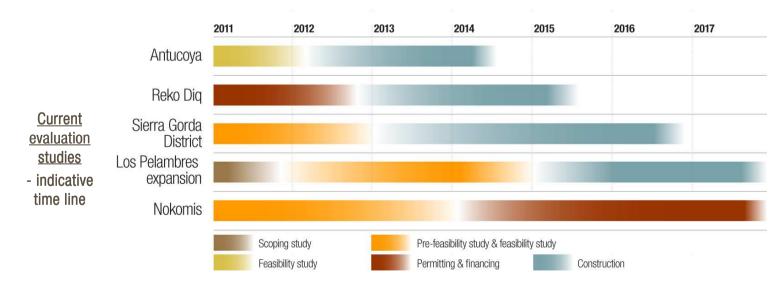


#### Group exploration and evaluation expenditure (US\$ m)

#### Mineral Resources (including ore reserves in billion tonnes)



Subsidiaries resources are formed by Los Pelambres, Telegrafo, Esperanza, Caracoles, Antucoya, El Tesoro and Michilla, and Joint Ventures by Reko Diq



# Antucoya







- Environmental approvals received June 2011
- Feasibility study substantially completed
  - SX-EW operation with an annual cathode production of approximately 80,000 tonnes
  - Estimated mine over 20 years
  - Current project capex of US\$ 1.35 billion
  - Estimated cash costs of 145 cents in first 5 years and 155 cents over life of mine
- If approved, construction is expected between 2012 and 2013 with first production during 2014
- Project benefits from a number of factors
  - Low pre-stripping and low operational waste-to-ore ratios
  - Favourable location
  - Low acid consumption per tonne of ore leached

## Sierra Gorda District



- Significant potential for brownfield and greenfield growth
  - Total resource estimate for Esperanza, Telégrafo and Caracoles of 5.8 billion tonnes
  - Average copper grade of 0.38% with gold credits at all three deposits
- Pre-feasibility study for district in progress
  - US\$70 million expenditure programme in May 2010, with additional US\$ 13 million approved in July 2011
  - Examining a range of options, including extension of Esperanza's plant life, expansion of the plant and/or a stand-alone project
  - Expected to be completed in late 2011
- Continuing exploration and drilling programme
  - To determine resource estimates in existing areas such as Polo Sur and also to identify further prospects in the district





# Los Pelambres District





- Existing mine plan includes ore reserves of 1.4 billion tonnes
- Total mineral resources of 5.8 billion tonnes @ 0.53% copper plus molybdenum and gold credits
- Additional resources provide opportunities for significant long-term growth



- Scoping study examining key issues of water supply, community engagement and environmental issues completed in 2011 H1
- Initiation of pre-feasibility study by Los Pelambres at a cost of just under US\$100 million approved

# Potential development prospects outside Chile



## **Reko Diq copper-gold project**

- 37.5% effective interest in joint venture with Barrick Gold Corporation
- Feasibility study submitted to the Government of Balochistan in August 2010
- Application for mining lease submitted in February 2011

## **Twin Metals Project**

- 40% interest in Nokomis project in NE Minnesota
- Partnership with Duluth Metals through Twin Metals Minnesota (TMM)
- Duluth's acquisition of Franconia Minerals Corporation expected to be transferred into TMM during 2011 H2, thereby combining the Birch Lake and Nokomis projects

## **Early stage earn-in agreements**

- Long-term optionality through earn-in agreements with junior mining companies
- Further earn-ins signed to date in 2011 in Sweden, Turkey, Portugal and Canada







# Conclusion



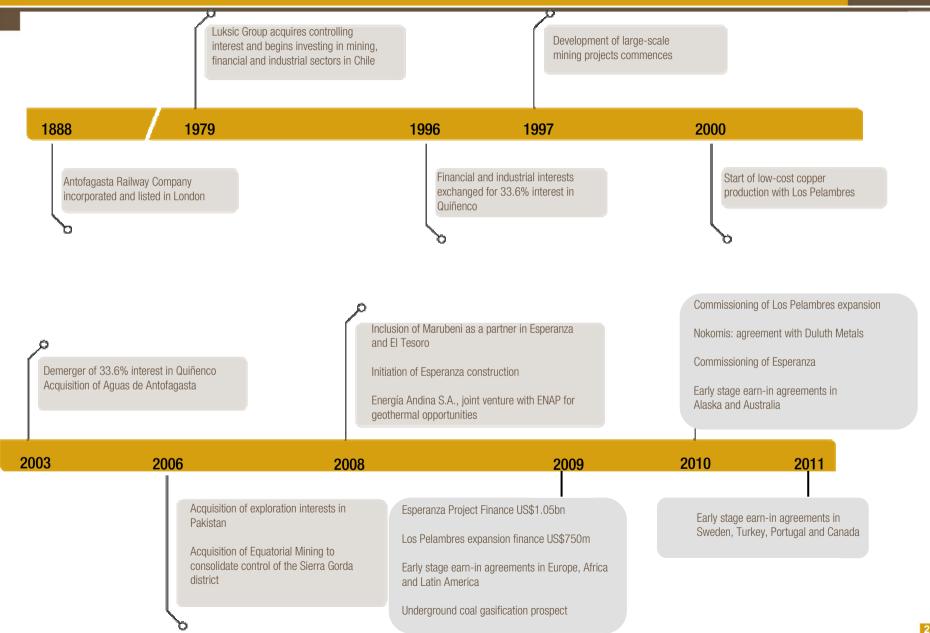
- 2011 H1 has been a key period in the continued growth of the Group
- Ramp-up at Esperanza is continuing and will contribute to production growth in 2011 and 2012 in both copper and gold
- Feasibility study for Antucoya project is substantially completed, which if approved would add further production from 2014
- Sierra Gorda, Los Pelambres and international prospects underline the Group's options for continued long-term growth
- Increased interim dividend of 8 cents re-bases the total ordinary dividend to the 20 cent level,
   more than double that of 2009
- Group's financial position remains very strong



23 August 2011

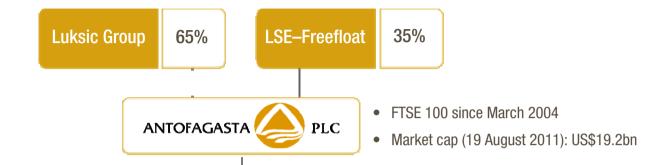
# Brief history





## Overview





## Transport

### FCAB (Chile) FCA (Bolivia)

Combined rail and road tonnages of approx. 8.1 million tons per year



## Mining

## ${\bf Operating\ assets\ (Chile): Los\ Pelambres-Esperanza-El\ Tesoro-Michilla}$

2011 forecast production of: 620,000 - 640,000 tonnes of copper 200,000 - 215,000 ounces of gold 10,600 tonnes of molybdenum

**Exploration and evaluation studies in Chile, the United States and Pakistan** 

Earn-in agreements in Europe, the Americas and Australia







### Water

# Aguas de Antofagasta (Chile)

Approx. 46 million m<sup>3</sup> sold per year

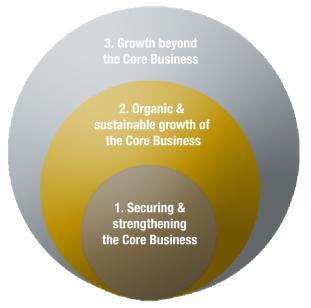


<sup>\*</sup> All figures are on a 100% basis, not on attributable basis and mining figures refer to 2011estimates, which are subject to revision in the course of the year

# Strategy



## Strategic Plan for the Mining Division 2009 - 2015



- 1 Los Pelambres
  - El Tesoro
  - Michilla
  - **■** Esperanza
- 2 Los Pelambres district

■ Sierra Gorda district

- Search for high-potential early stage mining base:
  - Chile (outside Sierra Gorda and Los Pelambres districts)
  - International
  - Antucoya
  - Reko Diq
  - Twin Metals
  - Generation of international capabilities
- Coal gasification and geothermal

- Major copper producer with existing lowcost operating base in Chile
- Copper production to increase nearly 65% from 2009 to 2012E, providing low cost and profitable growth

2009 : 443k tonnes2010 : 521k tonnes

2011E : 620-640k tonnes

2012-2015E : 720k tonnes

- Increased molybdenum and gold by-products
- Substantial resources in existing areas of operation identified through exploration
- Early-stage prospects and earn-in agreements acquired in Chile and abroad
- Social and environmental strategies to support objectives

# Geographical locations – operations and exploration





# Geographical locations - Chile



**Chile: Operations (\*)** 

Esperanza (80 -100k tonnes copper and 160 - 175k ounces gold)

El Tesoro (96k tonnes copper)

Michilla (40k tonnes copper)

**Transport and Water divisions** 

Los Pelambres (407k tonnes copper and 10.6k tonnes moly)



Energía Andina S.A., joint venture for geothermal opportunities

Antucoya
Exploration in Sierra Gorda District
Joint venture with New Gold (Río Figueroa)
Joint Venture with Codelco (Cumbres)
Hornitos thermoelectrical power plant

Mulpun project, underground coal gasification



# Realised prices and mark-to-market



(US cents/pound)	2010 H1	2010 H2	2010	2011 H1
LME average copper price	323.4	350.4	342.0	426.3
Realised copper price	301.9	405.3	359.3	422.7
(US dollars/pound)				
Market average moly price	16.1	15.4	15.7	17.0
Realised moly price	16.8	15.6	16.2	17.0
(US dollars/ounce)				
Market average gold price	- 1,152.4	1,297.2	1,226.3	1,445.0
Realised gold price	1,154.8	1,302.7	1,236.5	1,490.8
				_

Effects on results (US\$ million)	2010 H1	2010 H2	2010	2011 H1
Provisional pricing – copper (1)	(82.1)	385.6	303.5	(8.6)
Provisional pricing – molybdenum <sup>(1)</sup>	1.5	(2.9)	(1.4)	(7.8)
Provicional pricing – gold <sup>(1)</sup>	-	-	-	0.1
Realised hedging gains (losses) – copper (2)	(34.7)	(46.7)	(81.4)	(12.3)
Period end mark-to-market * (US\$ million)	30 . 20	Jun )10	31 Dec 2010	30 Jun 2011
Provisional pricing – copper (1)	(64	1.2)	129.8	40.9
Provisional pricing – molybdenum <sup>(1)</sup>	(5	5.7)	0.3	(2.2)
Provicional pricing – gold <sup>(1)</sup>			-	(0.1)
Hedge instruments – copper (2)	(12	2.1)	(78.2)	(68.7)

<sup>\*</sup> Pre-tax and minorities

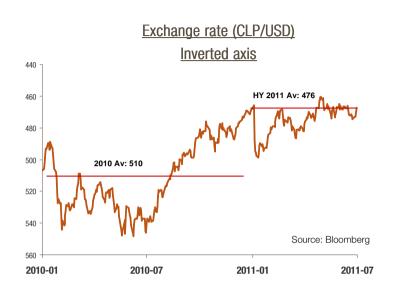
<sup>(1)</sup> Provisional pricing: both actual realisations and mark-to-market are reflected in the income statement.

<sup>(2)</sup> Hedge instruments: only actual realisations and ineffective hedges are reflected through the income statement. Unrealised mark-to-market for effective hedges are reflected through reserves.

# Market cost – recent trends



2011-07

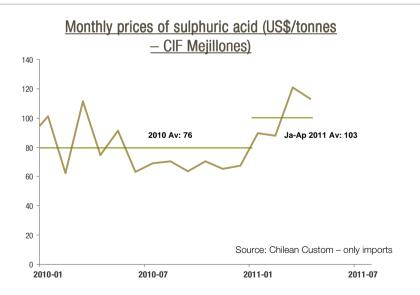


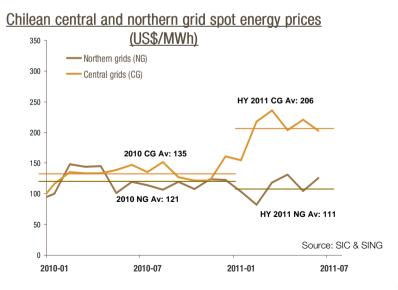


2011-01

2010-07

2010-01



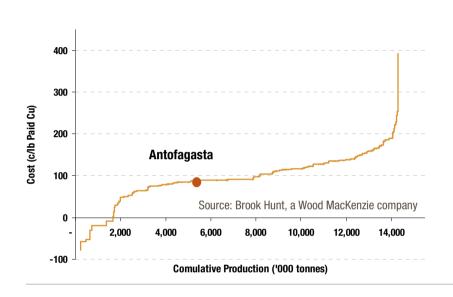


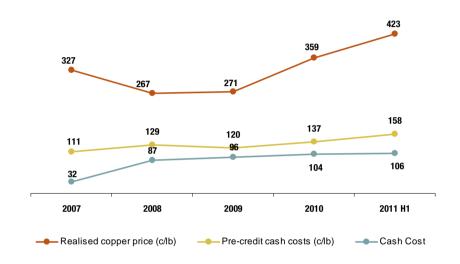
# Cash cost profile



### 2010 copper cost curve (Ranked by C1)

# Realised copper price and cash cost





## Cash cost by operation (c/lb)

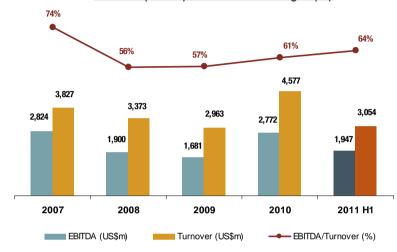
	2009	2010H1	2010H2	2010	2011H1	2011e*	2011b**
Los Pelambres	80.4	68.1	89.8	79.3	75.2	81.0	78.9
Esperanza	-	-	-	-	121.9	120.0	40.6
El Tesoro	123.4	146.6	191.5	169.2	183.0	168.0	160.7
Michilla	157.6	180.4	186.9	183.8	192.5	212.0	197.6
Group weighted average net of by- products	96.3	91.5	115.8	104.0	105.6	110.0	88.1
Group weighted average (before deducting by products)	120.3	126.5	147.5	137.3	157.8	160.0	142.8

<sup>\*</sup> Refers to 2011 estimates at August \*\* Refers to original 2011 estimates at March

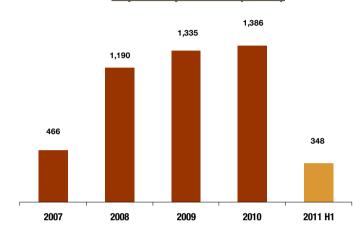
# Financial history



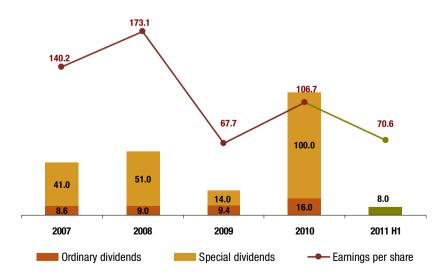
EBITDA (US\$m) and EBITDA margin (%)



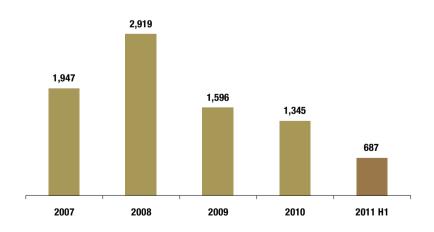
**Capital expenditure (US\$m)** 



Earnings and dividends per share (cents)



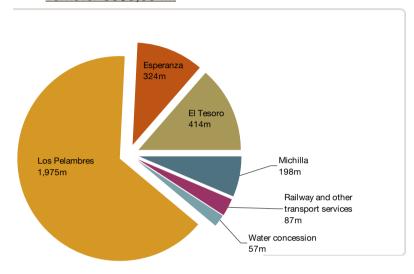
Net cash position (US\$ million)



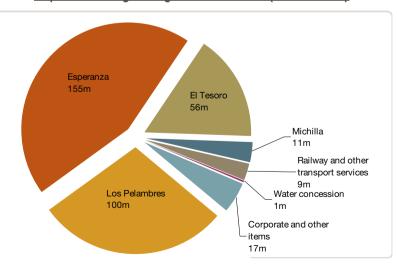
# Segmental analysis – 2011



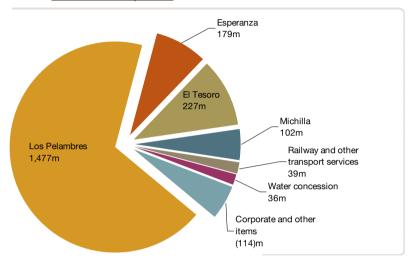
#### Turnover US\$3,054m



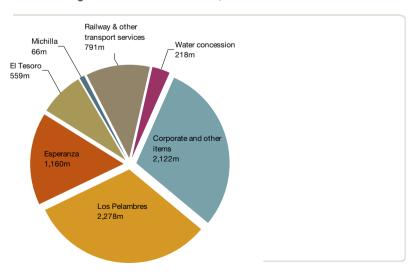
### Capex including intangibles US\$348m (actual basis)



### EBITDA US\$1,947m



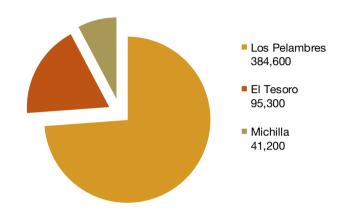
#### Segment net assets US\$7,194m



# Production analysis

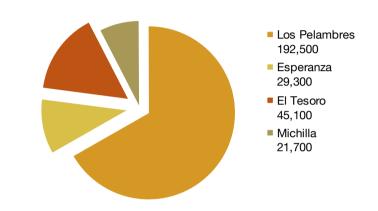


2010 FY Copper production by company ('000 tonnes)
Total: 521,100 tonnes



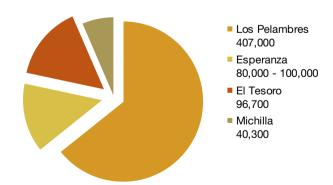
2011 H1 Copper production by company ('000 tonnes)

Total: 288,500 tonnes

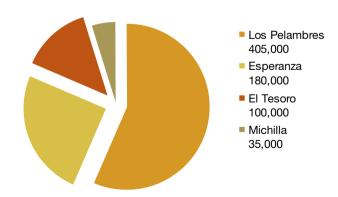


2011 Copper production by company ('000 tonnes)

Total: 620,000 - 640,000 tonnes



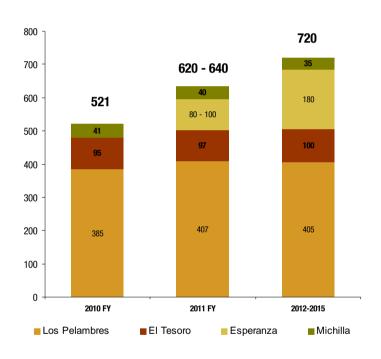
2012-2015 Copper production by company ('000 tonnes)
Annual average: 720,000 tonnes



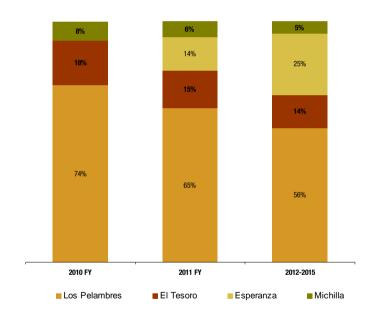
## Production analysis



#### **Copper Production ('000 tonnes)**



#### **Copper Production (%)**



## Mining data



<u>Los Pelambres</u>	<u>2011 H1</u>	<u>2010 H1</u>	<u>11H1</u>	<u>vs. 10H1</u>	<u>2010 H2</u>	<u>11H1</u>	vs. 10H2	<u>2010</u>
Copper sales ('000 tonnes)	196.2	162.4	<b>†</b>	20.8%	216.7	<b>\</b>	-9.5%	379.1
Realised copper price (cents/pound)	423.7	304.1	<b>†</b>	39.3%	422.4	<b>†</b>	0.3%	371.7
Moly sales ('000 tonnes)	4.4	4.1	<b>†</b>	7.3%	4.8	+	-8.3%	8.9
Realised moly price (US\$/pound)	17.0	16.8	<b>†</b>	1.2%	15.6	<b>†</b>	9.0%	16.2
Gold sales ('000 ounces)	18.1	15.5	<b>†</b>	16.8%	19.6	+	-7.7%	35.1
Realised gold price (US\$/ounce)	1,480.7	1,154.8	<b>†</b>	28.2%	1,302.7	<b></b>	13.7%	1,236.5
Pre-credit cash cost (cents/pound)	130.8	115.8	<b>†</b>	13.0%	132.5	+	-1.3%	124.4
Cash cost (cents/pound) including by-product credits	75.2	68.1	<b>†</b>	10.4%	89.8	ţ	-16.3%	79.3
<u>El Tesoro</u>	<u>2011 H1</u>	2010 H1	<u>11H1</u>	vs. 10H1	2010 H2	<u>11H1</u>	vs. 10H2	<u>2010</u>
Copper sales ('000 tonnes)	43.9	46.6	+	-5.8%	48.7	+	-9.9%	95.3
Realised copper price (cents/pound)	427.4	319.7	<b>†</b>	33.7%	382.7	<b>†</b>	11.7%	351.9
Cash cost (cents/pound)	183.0	146.6	<b>†</b>	24.8%	191.5	ţ	-4.4%	169.2

## Mining data

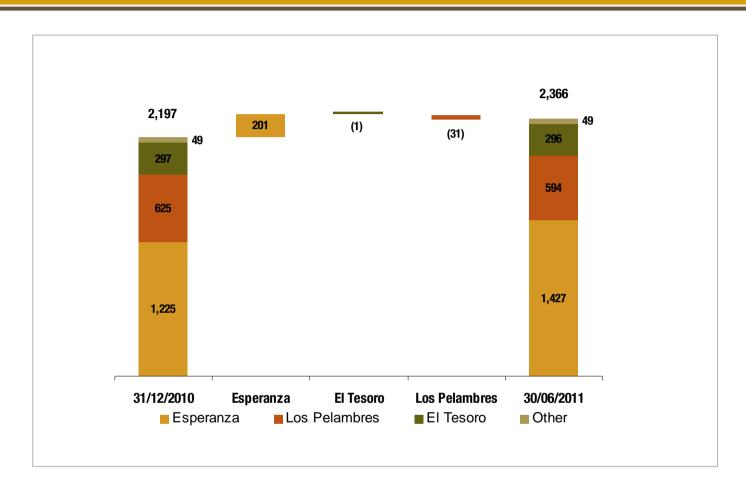


<u>Esperanza</u>	<u>2011 H1</u>
Copper sales ('000 tonnes)	27.1
Realised copper price (cents/pound)	423.2
Moly sales ('000 tonnes)	-
Realised moly price (US\$/pound)	-
Gold sales ('000 ounces)	47.5
Realised gold price (US\$/ounce)	1,494.7
Pre-credit cash cost (cents/pound)	270.8
Cash cost (cents/pound) including by-product credits	121.9

<u>Michilla</u>	2011 H1	2010 H1	<u>11H1</u>	vs. 10H1	2010 H2	<u>11H1</u>	vs. 10H2	<u>2010</u>
Copper sales ('000 tonnes)	22.3	20.3	<b>†</b>	9.9%	21.3	<b>†</b>	4.7%	41.6
Realised copper price (cents/pound)	403.4	244.2	<b>†</b>	65.2%	282.5	<b>†</b>	42.8%	263.8
Cash cost (cents/pound)	192.5	180.4	<b>†</b>	6.7%	186.9	<b>†</b>	3.0%	183.8

## Debt analysis 2011 (US\$m)





- Esperanza US\$200 million of new short-term borrowings
- Los Pelambres Regular repayments of term loans, partly offset by new finance leases

### Production and realised prices analysis – 2011 H1



#### Copper, molybdenum and gold production

#### 2010 2011H1 2011e\* 2011b\*\* 2009 2010H1 2010H2 Copper ('000 tonnes) 384.6 192.5 Los Pelambres 311.6 186.1 198.5 407.0 419.2 90.0 159.1 Esperanza 29.3 96.1 El Tesoro 90.2 47.3 48.0 95.3 45.1 96.0 Michilla 21.7 40.6 19.5 21.7 41.2 40.0 40.4 **Group total** 442.5 252.9 268.2 521.1 288.5 633.0 714.8 Molybdenum ('000 tonnes) Los Pelambres 7.8 4.8 10.5 9.3 4.4 4.4 8.8 Gold ('000 ounces) Los Pelambres 23.5 15.5 19.6 18.1 37.0 37.6 35.1 52.7 160.0 286.4 Esperanza 197.0 **Group total** 23.5 19.6 70.7 324.0 15.5 35.1

## Realised copper (c/lb), molybdenum (US\$/lb) & gold price (oz/lb)

Copper	2009	2010H1	2010H2	2010	2011H1
Los Pelambres	286.8	304.1	422.4	371.7	423.7
Esperanza					423.2
El Tesoro	246.3	319.7	382.7	351.9	427.4
Michilla	195.7	244.2	282.5	263.8	403.4
LME price	234.2	323.4	350.4	342.0	426.3
Molybdenum					
Los Pelambres	11.3	16.8	15.6	16.2	17.0
Market price	11.1	16.1	15.4	15.7	17.0
Gold					
Los Pelambres	-	1,154.8	1,302.7	1,236.5	1,480.7
Esperanza	-	-	-	-	1,494.7
Market price	-	1,152.4	1,297.2	1,226.3	1,445.0

<sup>\*</sup> Refers to 2011 estimates at August

<sup>\*\*</sup> Refers to original 2011 estimates at March

## Cash cost analysis – 2011



#### Cash cost (c/lb)

	2009	2010H1	2010H2	2010	2011H1	2011e*	2011b**
Los Pelambres	80.4	68.1	89.8	79.3	75.2	81.0	78.9
Esperanza	-	-	-	-	121.9	120.0	40.6
El Tesoro	123.4	146.6	191.5	169.2	183.0	168.0	160.7
Michilla	157.6	180.4	186.9	183.8	192.5	212.0	197.6
Group weighted average net of by- products	96.3	91.5	115.8	104.0	105.6	110.0	88.1
Group weighted average (before deducting by products)	120.3	126.5	147.5	137.3	157.8	160.0	142.8
		·				·	·

#### Los Pelambres cash cost (c/lb)

	2009	2010H1	2010H2	2010	2011H1	2011e*	2011b**
On-site and shipping	95.3	98.4	114.7	106.8	112.0	113.1	106.3
Tolling charges	19.2	17.4	17.8	17.6	18.8	19.2	17.2
Before by-product credits	114.5	115.8	132.5	124.4	130.8	132.3	123.5
By-product credits	(34.1)	(47.6)	(42.8)	(45.1)	(55.5)	(51.3)	(44.6)
After by-product credits	80.4	68.1	89.8	79.3	75.2	81.0	<i>78.9</i>

#### Esperanza cash cost (c/lb)

	2011H1	2011e*	2011b**
On-site and shipping	255.3	244.0	131.1
Tolling charges	15.5	16.0	14.7
Before by-product credits	270.8	260.0	145.8
By-product credits	(148.9)	(140.0)	(105.2)
After by-product credits	121.9	120.0	40.6

<sup>\*</sup> Refers to 2011 estimates at August
\*\* Refers to original 2011 estimates at March

## Cash cost analysis: 2010 actual vs. 2011 actual



#### Los Pelambres

2010 HY Actual	cents/l
Stronger Chilean Peso and inflation	4.5
Higher engineering costs	4.
Lower grades impact on unit costs	3.0
Increased maintenance	3.1
Higher inputs costs	2.6
Other costs	2.1
Mine contracts prices impact	2.0
Lower energy price	(7.8
2011 HY Actual on site and shipping costs	13.6
Tolling charges	1.4
By-product credits	(7.9
2011 HY Actual	75.

#### El Tesoro

010 HY Actual	146.6
Higher acid costs	24.5
Higher energy costs	5.0
Lower grades and recovery impact on unit costs	4.3
Stronger Chilean Peso exchange rate	3.0
Other costs	1.7
Lower fuel costs	(2.1)
011 HY Actual	183.0

#### Michilla

C	ents/lb
010 HY Actual	180.4
Higher acid costs	9.5
Stronger Chilean Peso exchange rate	9.4
Other costs	6.3
Lower amount of ore purchased from Enami	(6.5)
Higher ore grades impact on units costs	(6.6)
011 HY Actual	192.5

### Transport and Water businesses







### **Transport 2011 H1**

- Combined rail and road volumes of 4.1 million tonnes (rail volumes of 3.2 million tonnes and road volumes of 0.9 million tonnes)
- Total revenues US\$87 million (\*)
- EBITDA US\$39 million

#### Water 2011 H1

- Water volume of 24.0 million m3
- Revenues US\$57 million (\*\*)
- EBITDA US\$36 million

<sup>-</sup> Rail Network

Rail station

Owned Mine

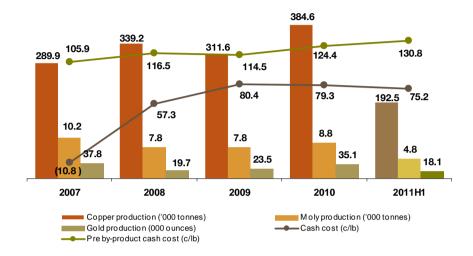
<sup>(\*)</sup> Represents third party revenues, stated after eliminating sales to Antofagasta's mining division of US\$8.1m

<sup>(\*\*)</sup> Represents third party revenues, stated after eliminating sales to Antofagasta's mining division of US\$3.4m

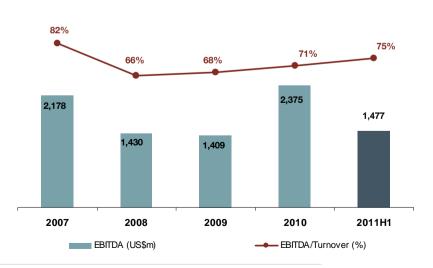
### Los Pelambres



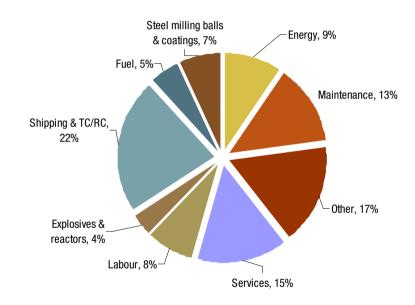
#### Production and cash cost



#### EBITDA (US\$m) and EBITDA margin (%)



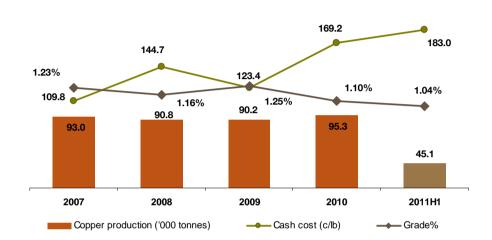
#### Cash operating cost – 2011 H1 excluding by-products



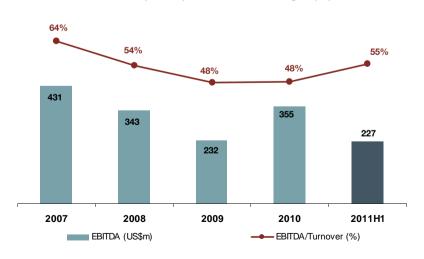
### El Tesoro



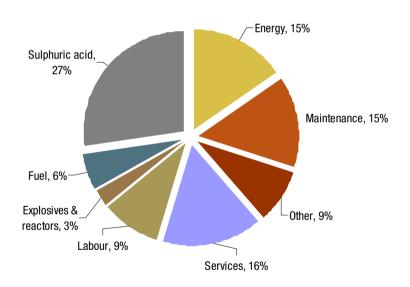
#### Production and cash cost



#### EBITDA (US\$m) and EBITDA margin (%)



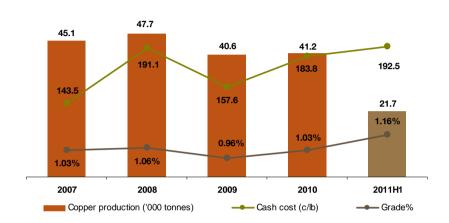
#### Cash operating cost - 2011 H1



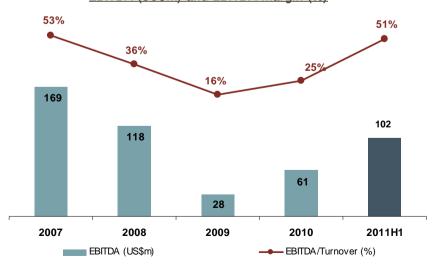
### Michilla



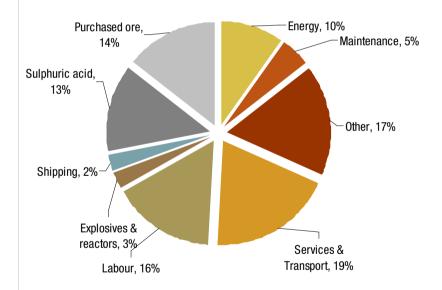
#### Copper production and cash cost



#### EBITDA (US\$m) and EBITDA margin (%)



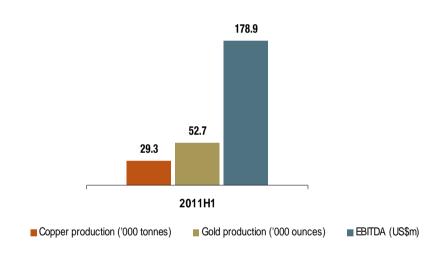
#### Cash operating cost - 2011 H1



## Esperanza



#### **Production and EBITDA**

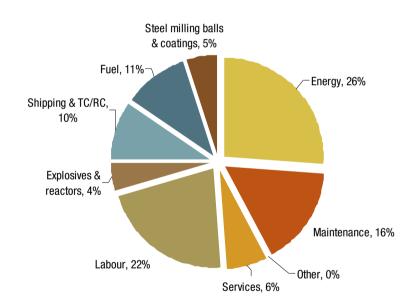


Cash Cost - 121.9 c/lb

Cash Cost before by-product - 270.8 c/lb and

EBITDA margin was 55%

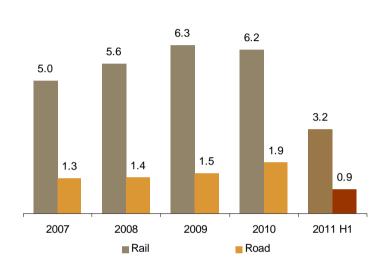
#### Cash operating cost – 2011 H1 excluding by-products



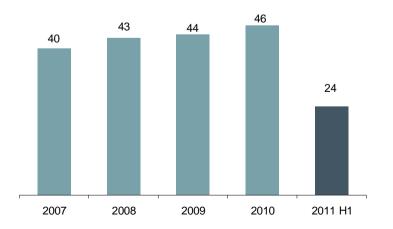
## Transport and Water businesses



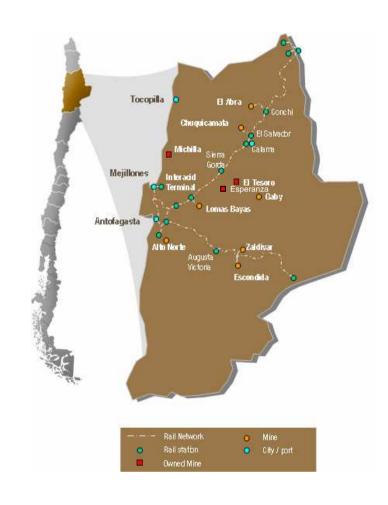
#### Rail and road volumes (million tonnes)



#### Water volumes sold (million m<sup>3</sup>)



#### Chile's Antofagasta Region



### Reserves and resources (at 31 December 2010)



Ore Reserves and Mineral Resources Estimates

At 31 December 2010

	<b>Tonna</b> (millions o	-	Coppe (%)	r	Molybde (%)		<b>Gold</b> (g/tonr		Attributable To	ŭ
	2010	2009	2010	2009	2010	2009	2010	2009	2010	2009
Ore reserves										
Group subsidiaries										
Los Pelambres	1,433	1,503	0.64	0.64	0.018	0.018	0.03	0.03	860	902
El Tesoro	233	212	0.62	0.57	-	-	-	-	163	148
Open Pit, Tesoro North-East and Mirador	130	106	0.83	0.77	-	-	-	-	91	74
El Tesoro ROM (Esperanza Oxides)	102	106	0.35	0.36	-	-	-	-	72	74
Esperanza Sulphides	587	583	0.55	0.54	0.010	0.010	0.22	0.22	411	408
Michilla	6	10	1.53	1.35	-	-	-	-	4	7
Group Total	2,259	2,307	0.62	0.61					1,438	1,465
Mineral Resources (including ore reserves)										
Group subsidiaries										
Los Pelambres	5,818	6,165	0.53	0.52	0.010	0.011	0.04	0.04	3,491	3,699
El Tesoro	276	302	0.59	0.61	-	-	-	-	193	221
Open Pit, Tesoro North-East and Mirador	155	170	0.80	0.81	-	-	-	-	109	129
El Tesoro ROM (Esperanza Oxides)	121	132	0.33	0.35	-	-	-	-	85	92
Esperanza Sulphides	1,923	1,204	0.39	0.45	0.010	0.012	0.11	0.15	1,346	843
Michilla	56	43	1.78	2.27	-	-	-	-	42	32
Antucoya	1,509	1,509	0.27	0.27	-	-	-	-	1,509	1,509
Telégrafo	2,728	-	0.35	-	-	-	-	-	1,910	-
Oxides	51	-	0.21	-	-	-	-	-	36	-
Sulphides	2,677	-	0.36	-	0.010	-	0.10	-	1,874	-
Caracoles	1,129	-	0.45	-	-	-	-	-	1,129	-
Oxides	132	-	0.50	-	-	-	-	-	132	-
Sulphides	996	-	0.45	-	0.015	-	0.18	-	996	-
Group Subsidiaries Total	13,439	9,223	0.44	0.48					9,619	6,304
Group Joint Ventures										
Reko Diq	5,868	5,868	0.41	0.41	-	-	0.22	0.22	2,200	2,200
Group Total	19,307	15,091	0.43	0.46					11,820	8,504

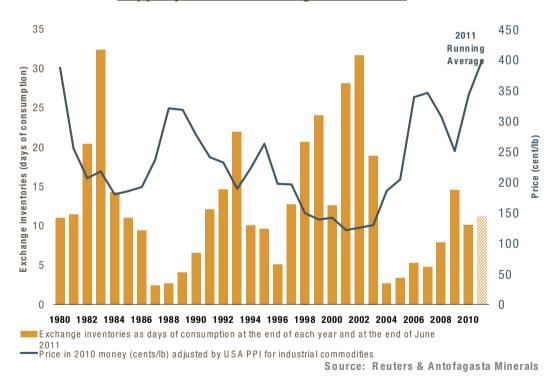
#### **Mineral Inventory:**

- Sierra Gorda district: Ranging from 450 to 690 million tonnes with grades between 0.54% and 0.44% copper
- Michilla district: Ranging from 15 to 25 million tonnes with grades between 1.2% and 1.0% copper
- El Abra district: Ranging from 490 to 740 million tonnes with grades between 0.7% and 0.6% copper

### Refined copper market



#### **Copper price and exchange inventories**



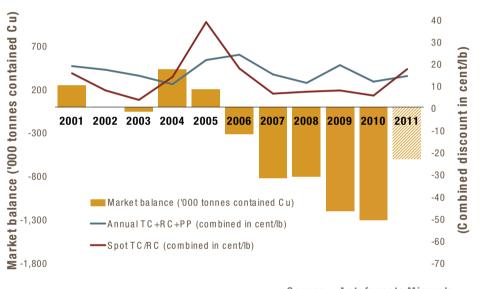
- Favourable market scenario supported by solid fundamentals and the appetite from the investment community
- LME copper price very strong during 1H-11 with an all time high of 460.3 cents/lb in February
- Although visible stocks have increased, there has been a significant reduction in the working inventories downstream and in bonded warehouses in China
- Recent financial events in the USA and Europe have negatively impacted the market with the copper price falling below 400 cents/lb
- Market analysts expect that the copper price should recover as the uncertainty in the world economy diminishes. Market consensus for 2011 is for an average price over 420 cents/lb

### Copper concentrates market



- Relatively balanced market during 2011 H1 due to low smelter capacity utilisation, good scrap availability and reduction of stocks
- Spot market getting tighter again after temporary easing due to Onahama smelter shut-down (operation resumed in early July)
- Continuous mine disruptions have tightened the market and spot TC/RCs have fallen from 110/11 after the earthquake in Japan to a low of 40's/4's recently.
- Long-term fundamentals remain unchanged with the concentrates market expected to be in deficit during the next years
- Mid-year contracts reported to be settled at 85/8.5
   with year-end TC/RCs expected to be much lower

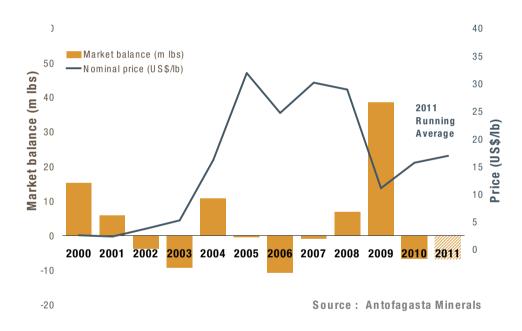
#### **Market balance and terms**



### Molybdenum market



#### **Molybdenum price and market balance**



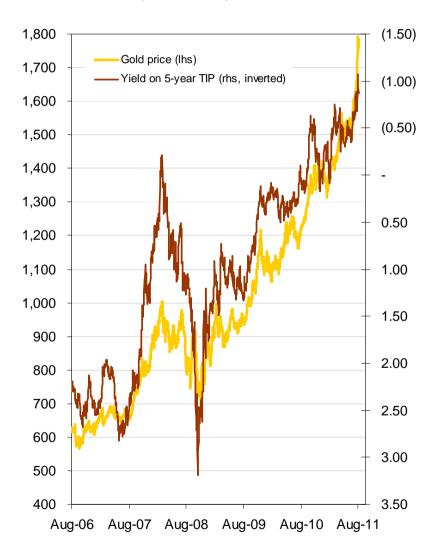
- Stable and balanced supply & demand market during 2011 H1
- Molybdenum price trading in a narrow range and averaging US\$ 17 per pound, though trending down
- China negatively impacted the price by becoming a net exporter of about 8 million pounds in first six months after being a net importer in 2009 and 2010
- During 2011 H2 demand is expected to remain reasonably robust with increased downside risk due to the more negative economic environment. Producers are performing well but with limited additional supply the market is expected to remain stable
- Market consensus is for a price of approximately US\$16 per pound in 2011

### Gold market



- Combination of low interest rates, excess liquidity provided by central banks, and renewed concerns over recovery of the global economy has taken the price of gold to new records (over US\$1,800 per ounce in August)
- Recent events in the U.S. around debt ceiling debate and especially S&P's downgrade of its debt have also contributed to increase the demand for gold as an alternative shelter to US Treasury securities
- Volatility of US Dollar in recent months has also supported gold as hard currency, especially as sovereign crisis of peripheral European countries has hit the Euro and as inflation concerns grow in most markets
- Strong investor demand in recent months, with ETFs displaying net inflows. Futures and OTC markets also very robust
- Demand for bars and coins remains robust, especially in Asia
- Jewellery demand strong, especially in India and China
- Official sector continues adding gold as reserve asset, with emerging countries leading the trend. No further sales of gold by European central banks under their gold agreement
- Industrial demand strong for electronics

#### **Gold price and 5-year real rates**



## Corporate tax rate & royalty



#### Table 4% to 9%

	Specific Progressive Tax Table (31/08/2010)											
Section	Margin S	ection (%)	Mg Rate	Reduction	effective tax (% IEM as Margin)							
N°	From	To	%	%	Mínimun	Efect. Rate	Medium	Efect. Rate	Maximun	Efect. Rate		
1	0.01%	35%	4.0%	0.00%	0.0%	4.0%	0.7%	4.0%	1.4%	4.0%		
2	35.01%	40%	4.0%	0.00%	1.4%	4.0%	1.5%	4.0%	1.6%	4.0%		
3	40.01%	45%	8.5%	1.80%	1.6%	4.0%	1.8%	4.3%	2.0%	4.5%		
4	45.01%	50%	12.0%	3.37%	2.0%	4.5%	2.3%	4.9%	2.6%	5.3%		
5	50.01%	55%	13.5%	4.13%	2.6%	5.2%	3.0%	5.6%	3.3%	6.0%		
6	55.01%	60%	15.0%	4.95%	3.3%	6.0%	3.7%	6.4%	4.1%	6.8%		
7	60.01%	65%	16.5%	5.86%	4.0%	6.7%	4.5%	7.1%	4.9%	7.5%		
8	65.01%	70%	18.0%	6.83%	4.9%	7.5%	5.3%	7.9%	5.8%	8.2%		
9	70.01%	75%	19.5%	7.89%	5.8%	8.2%	6.2%	8.6%	6.7%	9.0%		
10	75.01%	100.0%	9.0%	0.01%	6.7%	9.0%	7.9%	9.0%	9.0%	9.0%		
Max						9.0%		9.0%		9.0%		

#### Table 5% to 14%

Specific Progressive Tax Table (13/10/2010)										
Section	on Margin Section (%)		Mg Rate Reduction		on effective tax (% IEM as Margin)					
N°	From	То	%	%	Mínimun	Efect. Rate	Medium	Efect. Rate	Maximun	Efect. Rate
1	0.01%	35%	5.0%	0.00%	0.0%	5.0%	0.9%	5.0%	1.8%	5.0%
2	35.01%	40%	8.0%	1.05%	1.8%	5.0%	1.9%	5.2%	2.1%	5.4%
3	40.01%	45%	10.5%	2.05%	2.1%	5.4%	2.4%	5.7%	2.7%	5.9%
4	45.01%	50%	13.0%	3.18%	2.7%	5.9%	3.0%	6.3%	3.3%	6.6%
5	50.01%	55%	15.5%	4.43%	3.3%	6.6%	3.7%	7.1%	4.1%	7.4%
6	55.01%	60%	18.0%	5.81%	4.1%	7.4%	4.5%	7.9%	5.0%	8.3%
7	60.01%	65%	21.0%	7.61%	5.0%	8.3%	5.5%	8.8%	6.0%	9.3%
8	65.01%	70%	24.0%	9.56%	6.0%	9.3%	6.6%	9.8%	7.2%	10.3%
9	70.01%	75%	27.5%	12.01%	7.2%	10.3%	7.9%	10.9%	8.6%	11.5%
10	75.01%	80%	31.0%	14.64%	8.6%	11.5%	9.4%	12.1%	10.2%	12.7%
11	80.01%	85%	34.5%	17.45%	10.2%	12.7%	11.0%	13.4%	11.9%	14.0%
Max	85.01%	100%	14.0%	0.02%	11.9%	14.0%	12.9%	14.0%	14.0%	14.0%

## Safety statistics



Lost Time							
Injury Frequency Rate (	LTIFR)						

	2010	2009	2008	2007	2006
Chilean mining industry	3.6	4.0	5.8	5.9	5.8
Los Pelambres	0.9	1.3	1.3	1.7	2.3
El Tesoro	0.5	1.7	2.0	1.2	2.2
Michilla	4.2	3.2	4.4	2.6	1.3
Esperanza	1.6	1.5	1.6	n/a	n/a
AMSA including exploration	3.2	6.0	5.4	n/a	n/a
Mining	1.6	1.7	2.2	1.8	2.0
FCAB	7.4	12.0	13.9	19.2	15.3
ADASA	5.6	7.0	11.5	8.6	9.1
Group	1.9	2.8	4.4	5.6	4.9

# All Injury Frequency Rate (AIFR)

2010	2009	2008	2007	2006
n/a	n/a	n/a	n/a	n/a
2.6	3.6	6.6	5.3	7.5
4.6	6.0	6.6	13.1	19.4
8.8	9.9	12.1	12.8	12.7
14.7	15.0	8.2	n/a	n/a
13.6	23.0	13.1	_	
10.1	8.5	8.2	9.0	11.6
26.4	33.9	35.7	44.3	37.5
22.4	16.8	21.6	28.7	29.9
11.0	11.0	12.9	17.1	17.5

#### **Number of Fatalities**

2	2010	2009	2008	2007	2006
	45	35	43	40	31
	2	4	_	_	_
	-	1	_	_	_
ı	-	-	_	1	1
ı	-	-	_	n/a	n/a
<u> </u>	-	-	1	n/a	n/a
	2	5	1	1	1
	-	-	_	_	3
l_	-	-	_	_	_
	2	5	1	1	4

#### Definitions:

AIFR – Number of accidents with and without lost time during the year per million hours worked.

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