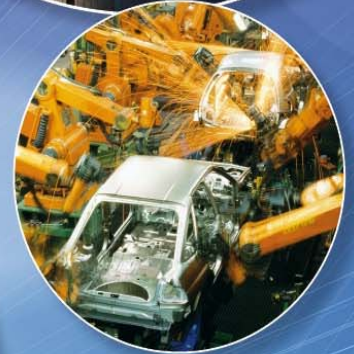


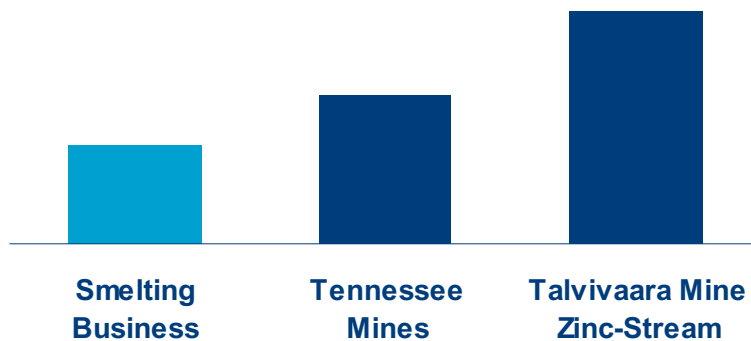
# Introduction to Nyrstar Mining

15 June 2010



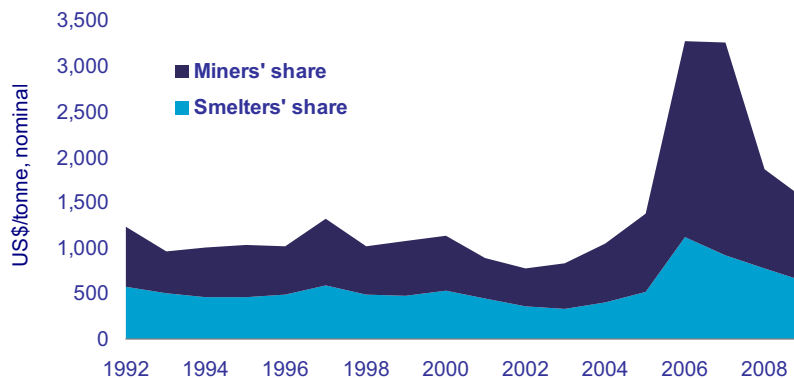
# Opportunity through upstream integration

EBITDA per tonne of zinc contained



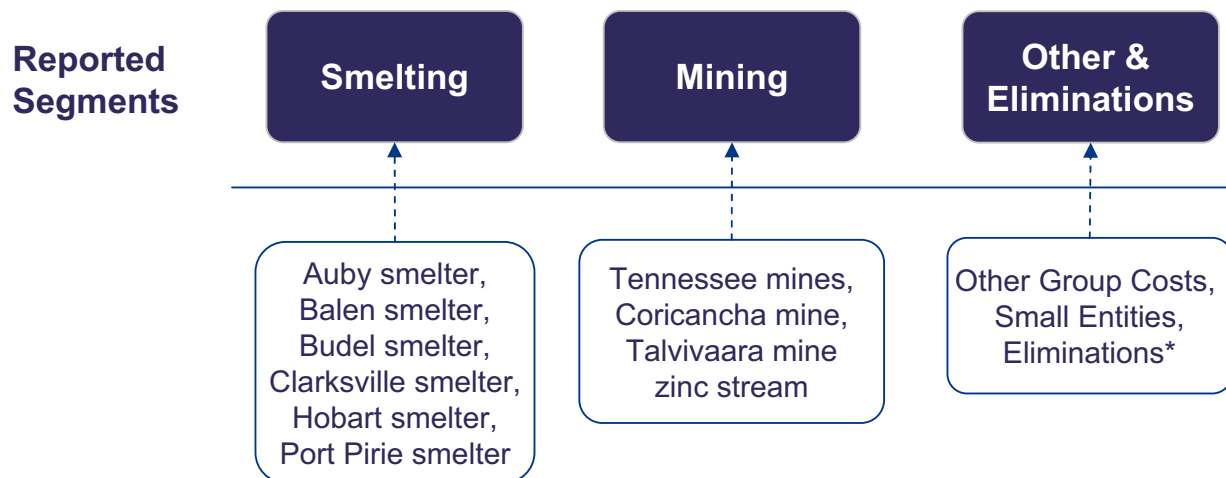
- Mining is structurally more profitable per tonne than smelting
- Mines have historically captured approximately 60% of zinc price revenues
- Therefore upstream integration provides greater exposure to metal prices throughout the cycle
- Nyrstar is seeking to capture incremental zinc revenue by moving upstream into mining

Revenue sharing of zinc price



# Impact on segmental reporting

- From H1 2010, Nyrstar's financial reporting segments will be simplified to reflect the new strategic focus of the business and the growing number of assets



- Production and costs by asset will continue to be reported in management discussion and analysis

# Elements of mining gross profit

For consistency the elements of gross profit used for smelting will also be used for mining

The table below maps revenue and COGS to the “elements” of gross profit

Revenue and Costs		Gross Profit
Metal Revenue	→	Free Metal 1
By Products	→	By Products 2
(Realisation Expenses)		
Net Revenue		
(Treatment Charge)	→	(Treatment Charge) 3
(Other)	→	(Other) 4
(Net COGS)		
Gross Profit		Gross Profit

The four main elements of gross profit are:

1. Mines earn the market metal price for the payable component of metal in concentrate (for simplicity, will be reported in the existing **Free Metal** gross profit category)
2. Sale of **By-products** can also provide valuable earnings contributions
3. Mines also subtract **Treatment Charges** (TC) or Refining Charges when selling concentrates, which are negotiated annually and can have escalators/de-escalators linked to metal prices
4. **Other** includes realisation expenses (e.g. freight), penalties and royalties

# Operating costs

- For analysing and reporting zinc mines Nyrstar will adopt the Brook Hunt C1 cash cost methodology (US\$/t payable metal)
  - C1 cost is the net direct cash cost necessarily incurred from mining through to refined metal (including treatment charges, concentrate freight costs, general expenses, essential off-site services, property taxes and marketing costs) less by-product credits
  - Does not include royalties and indirect costs (such as corporate overheads)
- For Coricancha analysis a similar methodology will be adopted for cash costs, based on gold production only
  - Silver, zinc and lead revenues will be treated as by-product credits
  - This can lead to negative cash costs due to high contribution from these by-products



# Estimating EBITDA

## Zinc Mines

- | EBITDA  $\approx$  (Payable metal x (Metal Price – C1 Cash Costs))
- | 85% of zinc contained in concentrate is payable

## Gold Mines

- | EBITDA  $\approx$  (Payable metal x (Metal Price – Cash Costs))
- | Approximately 97% of gold contained in concentrate is payable
- | Note that by-product prices (silver, zinc, lead) significantly impact cash costs

## Timing issue for Group EBITDA recognition

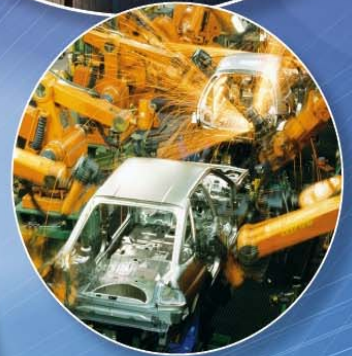
- | Note that Mining EBITDA is recognised when feed has been converted into the finished good stage (concentrate)
- | However, this EBITDA must be eliminated from the Group result until the material has been sold externally (time to process internally is approximately 2 months for zinc)

# Approach to resource reporting

- Intend to utilise the JORC reporting standard for all mining operations
- Targeting updated JORC compliant statements for FY2010 reporting

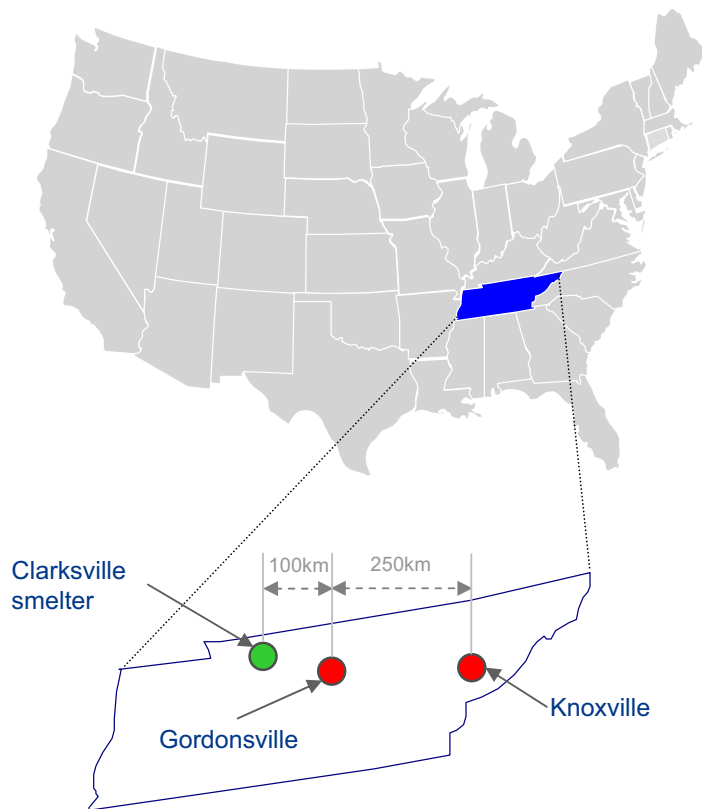


## Tennessee Mines





# Location and history



## Gordonsville

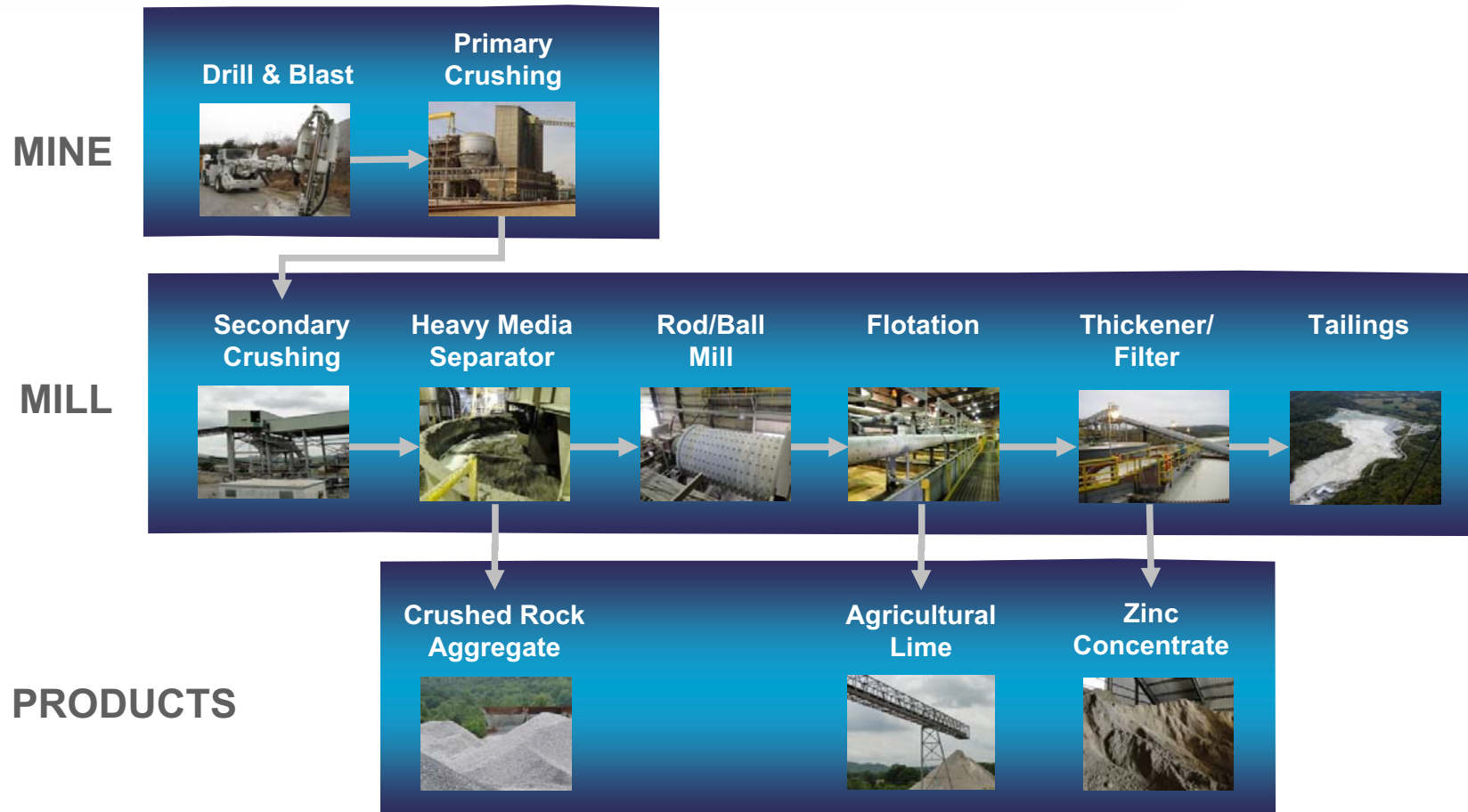
- | **1975** first production at Elmwood, Gordonsville (1979) and Cumberland (1991)
- | **2001** Pasminco placed into administration, operations closed in 2003
- | **2006** Strategic Resource Acquisition Corporation (SRA) purchase mines
- | **Mar 2008** mining restarted at Gordonsville only
- | **Oct 2008** put on care and maintenance due to low metal prices
- | **May 2009** Nyrstar acquires mine complex for approximately US\$15m

## Knoxville

- | **1956** first production at Young, Coy (1959) and Immel (1968)
- | **1971** Tennessee zinc operations purchased by Asarco
- | **2006** Glencore purchased site
- | **Feb 2009** put on care and maintenance due to low metal prices
- | **Dec 2009** Nyrstar acquires operation for US\$126m

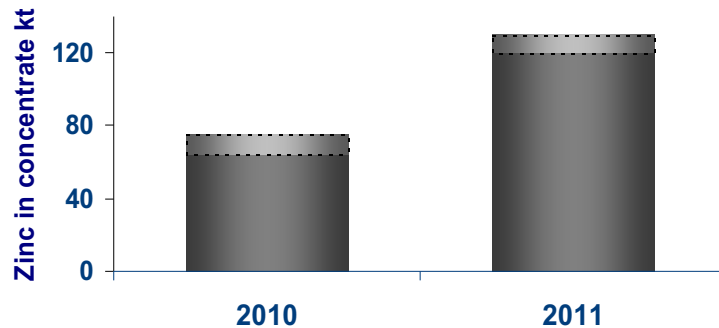


# Mining and Milling Process



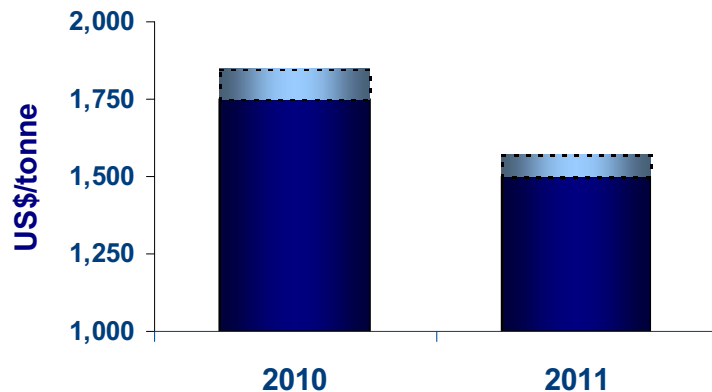
# Production and cost projections

Production



- Rapidly ramping up production
- Expect to achieve full production rate of approximately 130kt per annum of zinc in concentrate by 2011

C1 Cash Costs



- Post ramp-up, expect C1 cash costs of approximately \$1500-\$1600/tonne
- During the ramp-up stage in 2010, expect costs to be approximately 20% higher

# Resources

**Middle Tennessee Resources (2008)**

Category	Mt	Zn %
Indicated Underground	3.12	3.28
Indicated Surface	6.22	3.40
Inferred Surface	18.90	3.44
<b>Total</b>	<b>28.25</b>	<b>3.42</b>

**East Tennessee Resources (2009)**

Category	Mt	Zn %
Measured Underground	3.58	3.66
Indicated Surface	6.06	4.27
Inferred Surface	7.31	3.24
<b>Total</b>	<b>16.95</b>	<b>3.70</b>

- Reviewing resource statements to ensure JORC compliance
- Targeting updated JORC compliant resource statement for FY10 results
- Updated reserve statement dependent on finalisation of life of mine planning



## Coricancha Mine



# Location and history



- | **1906** mining in the area began
- | **1955** Minera Lizandro Proaño (MLP) formed
- | **1980's** research begins into treatment of arsenopyrite
- | **1994** construction begins on new concentrator which uses the BIOX® process for gold recovery
- | **2000** MLP forced into bankruptcy due to low metal price
- | **2006** Goldhawk purchase and achieve commercial production in Oct 2007, operations suspended in May 2008 due to ground displacement (requiring tailings relocation)
- | **2009** Nyrstar acquires 85% for US\$15m

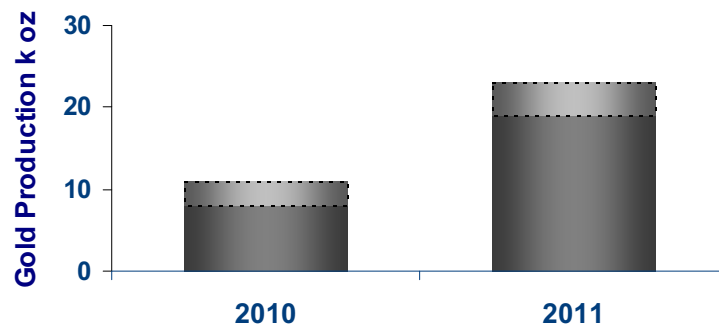


# Mining & Milling Process

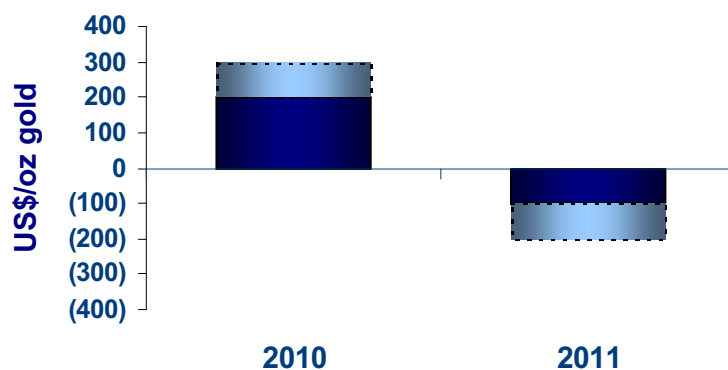


# Production and cost projections

**Production**



**Cash Costs**



- Construction of new tailings facility nearing completion
- Commissioning of mine and mill completed, and production re-started
  - First gold dore poured on 12<sup>th</sup> June
- Ramping up to initial production rate of approximately 20,000 troy oz gold per annum
  - Including 1m troy oz silver, 5kt zinc in concentrate, 3 kt lead in concentrate
- Exploration underway to support potential expansion of operations in 2011
- Potential for negative cash costs post ramp-up due to by-product contribution (sensitive to by-product prices)



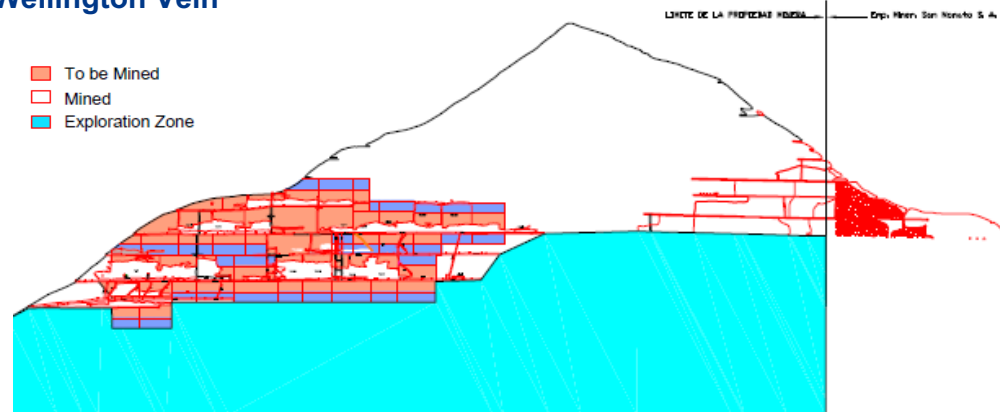
# Exploration and potential expansion

- Exploration at the mine has historically been limited, with no modern exploration techniques (diamond drilling, geochemical and/or geophysical exploration)
- An exploration program is underway which is expected to significantly increase resources and support an expansion of the scope and scale of operations

**Constancia Vein**



**Wellington Vein**



# Reserves and resources

NI 43-101 (Canadian Institute of Mining) Compliant Resources – December 2008

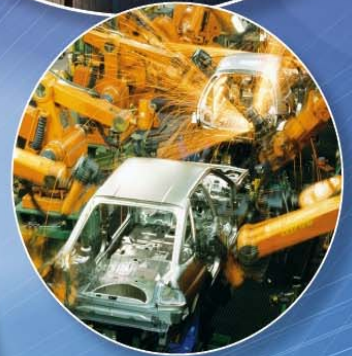
Total Proven and Probable Diluted Mineral Reserve – Coricancha Project (March 2009)						
Resource Class	Tonnes	Au (g/t)	Ag (g/t)	Pb (%)	Zn (%)	Cu (%)
Proven	325,157	4.83	166.8	2.18	2.72	0.34
Probable	133,277	4.73	180.4	2.10	3.19	0.35
<b>Total Mineral Reserve</b>	<b>458,434</b>	<b>4.80</b>	<b>170.7</b>	<b>2.16</b>	<b>2.86</b>	<b>0.34</b>

Total Measured and Indicated Mineral Resources – Coricancha Project (March 2009)						
Resource Class	Tonnes	Au (g/t)	Ag (g/t)	Pb (%)	Zn (%)	Cu (%)
Measured	486,582	6.43	187.9	2.50	3.27	0.39
Indicated	211,736	6.35	191.5	2.28	3.48	0.42
<b>Total Mineral Resource</b>	<b>698,318</b>	<b>6.41</b>	<b>189.0</b>	<b>2.43</b>	<b>3.33</b>	<b>0.40</b>

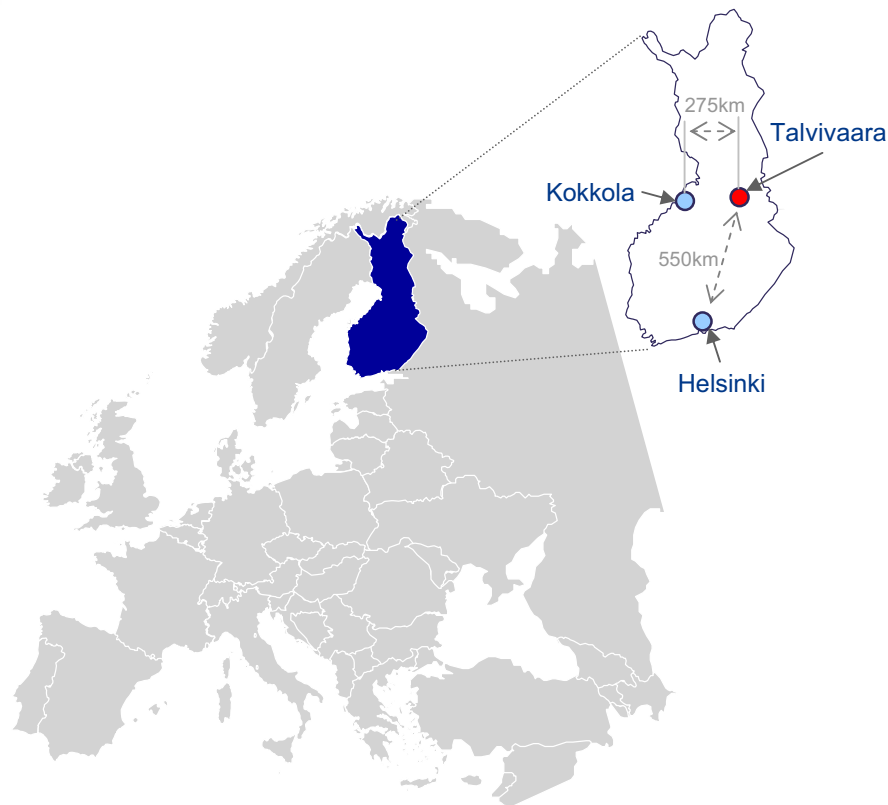
Total Inferred Mineral Resources – Coricancha Project (March 2009)						
Resource Class	Tonnes	Au (g/t)	Ag (g/t)	Pb (%)	Zn (%)	Cu (%)
<b>Total Inferred Resources</b>	<b>3,911,200</b>	<b>6.50</b>	<b>261.2</b>	<b>2.56</b>	<b>3.12</b>	<b>0.35</b>

Targeting updated JORC compliant resource statement for FY10 results

## Talvivaara Mine



# Location and history



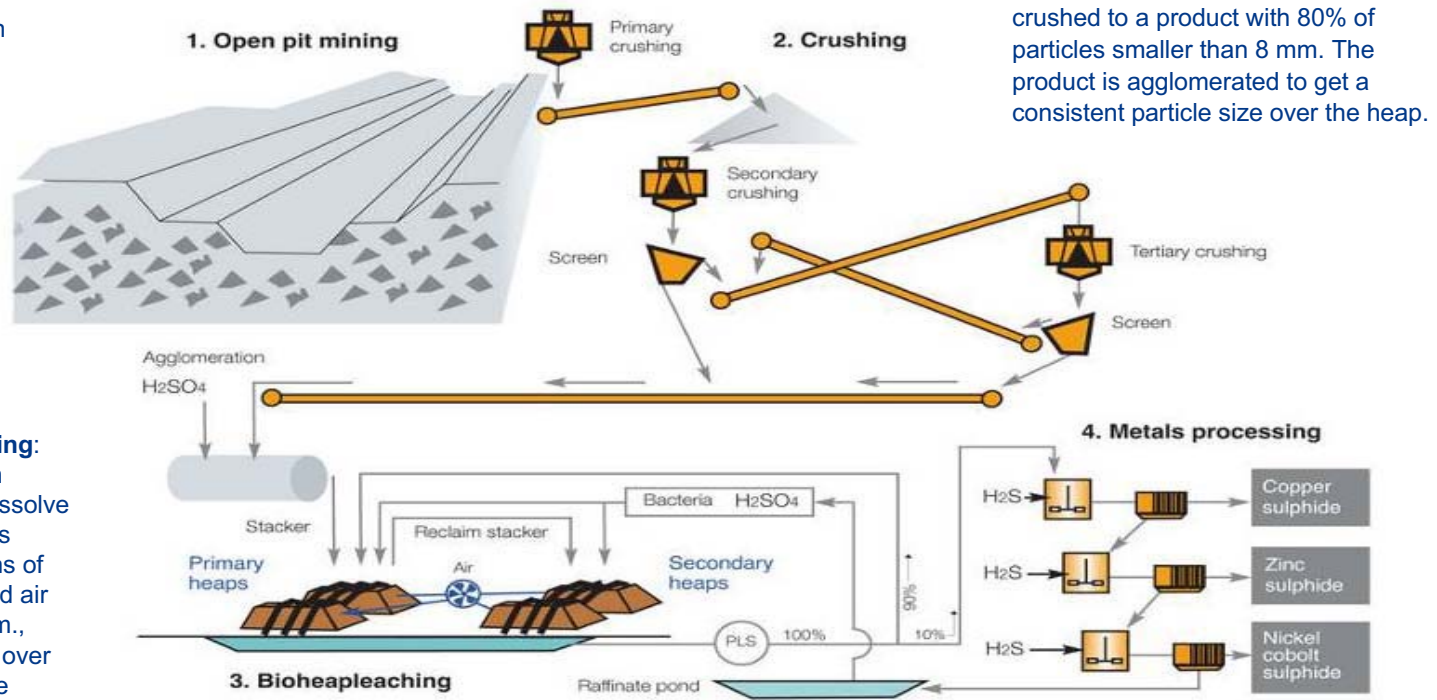
- | **1977 – 1983** Geological Survey of Finland carried out detailed exploration in the area
- | **1986** Outokumpu granted mining licenses to the deposits in and continued work to the early 1990's
- | **2004** Talvivaara Mining Company Plc purchases right to mine
- | **2005** Construction of on-site pilot heap and initial bio-heap leaching commenced
- | **2007** Bankable feasibility study approved; permits obtained
- | **Apr 2007** ramp up commences
- | **Oct 2008** first metals produced at Sotkamo mine
- | **Feb 2010** Nyrstar acquires 1.25m tonnes of zinc in concentrate for US\$335m





# Mining Process

1. Talvivaara is an open pit mine



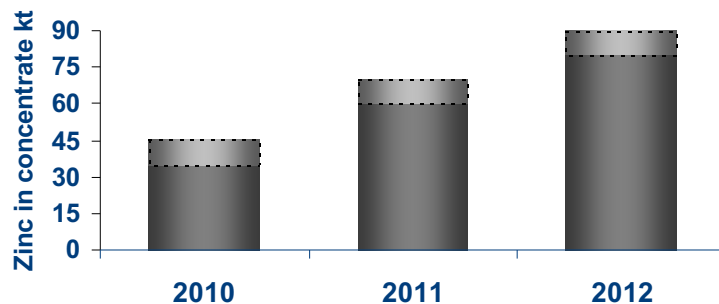
**3. Bio heap leaching:** ore is percolated with sulphuric acid to dissolve the metals. Process enhanced by means of bacteria which need air for their metabolism., Solution circulated over the heap to achieve higher concentrations

After a year on the primary heap the largest amount of metal has been extracted and ore is put on secondary heap for remaining extraction.

4. Part of the re-circulating solution is sent to the **metals processing** plant. There, at various conditions, copper, zinc and nickel/cobalt are precipitated as metal sulphides from solution. These precipitates are filtered, washed and pressed on a band filter.

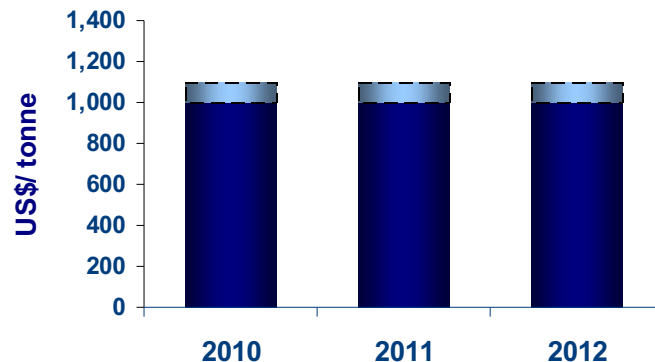
# Production and cost projections

**Production**



- Nyrstar has acquired 1.25 million tonnes of zinc in concentrate from Talvivaara
- Expect ramp-up of deliveries to 90kt of zinc in concentrate by 2012

**C1 Cash Costs**



- Nyrstar pays an extraction and processing (E&P) fee of €350/t of zinc in concentrate\*
- To estimate earnings as a virtual mine, also need to include a treatment charge for sale to smelters
- Results in equivalent C1 cash cost of approximately \$1,000 to \$1,100/tonne

Source: Talvivaara production guidance

# Resources

- At December 2008 there were approximately 1,000 million tonnes of resources
- One of the largest known sulphide nickel deposits in Europe
  - Commercially significant volumes of copper, zinc, cobalt and uranium
  - Feasibility of manganese production being evaluated
- Cost effective mining due to large open-pit operation

## JORC Classified Resources – December 2008

Category	2008 (Mt)	Ni %	Cu %	Zn %	Co %
Measured	363.6	0.23	0.13	0.51	0.02
Indicated	278.1	0.22	0.13	0.49	0.02
<b>Sub Total</b>	<b>641.6</b>	<b>0.23</b>	<b>0.13</b>	<b>0.50</b>	<b>0.02</b>
Inferred	362.6	0.20	0.12	0.49	0.02
<b>Total</b>	<b>1,004.2</b>	<b>0.22</b>	<b>0.13</b>	<b>0.50</b>	<b>0.02</b>

## Ironbark Zinc





# Location, background and history



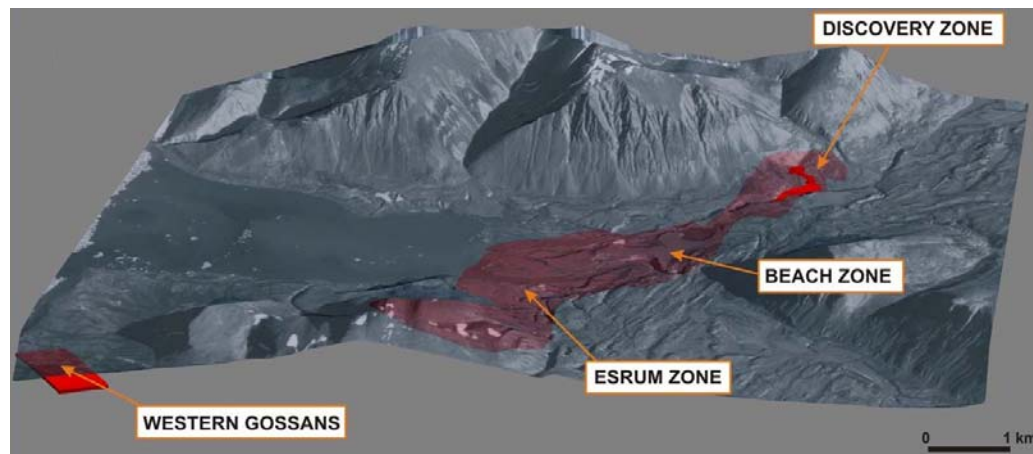
- | Ironbark Zinc is an Australian publicly listed mining company with exploration projects in Australia and Northern Greenland
- | Key focus is development of the world-class Citronen zinc-lead deposit in Northern Greenland; believed to represent one of the world's largest undeveloped zinc resources
- | **2008** Ironbark completed approximately 11,000m of diamond drilling - bringing total metres drilled to 44,000m
- | **Sep 2009** Nyrstar acquires 19.9% interest in Ironbark for €3.5m; granting a life of mine off-take agreement in relation to 35% of production of the Citronen zinc-lead deposit
- | **Mar 2010** Nyrstar acquires an additional 11% interest for €10m taking interest to approx 31%
  - | Investment will be used to fund 2010 drilling program, to support completion of a bankable feasibility study
  - | Ironbark estimates commercial production in 3 to 5 years



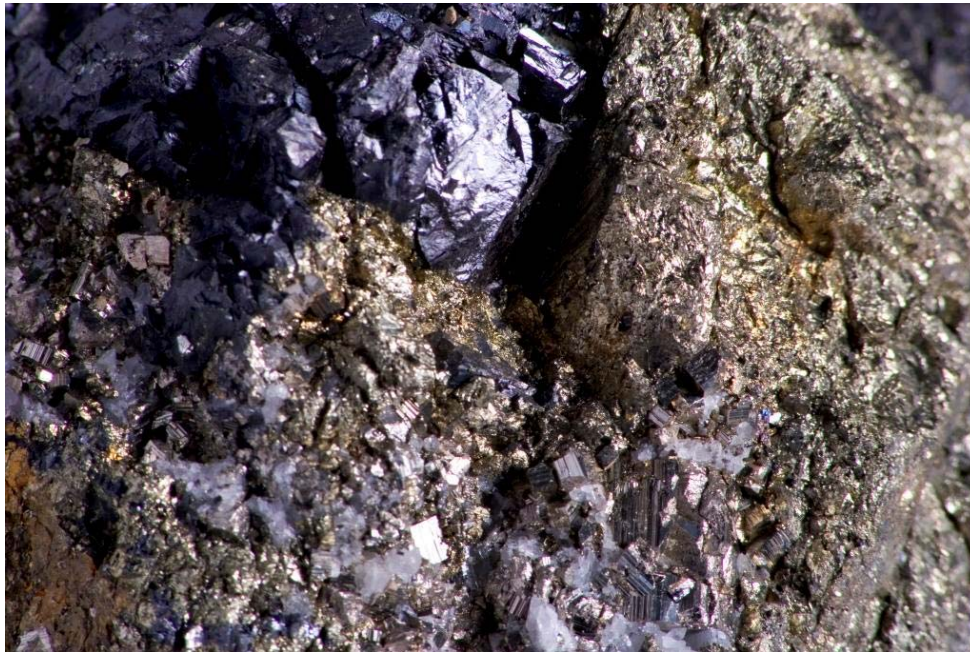
# Resources

JORC Classified Resources – November 2008

Global Resource (2008)			
Category	Mt	Zn %	Pb %
Indicated	50.2	4.5	0.5
Inferred	51.6	3.8	0.6
<b>Total</b>	<b>101.7</b>	<b>4.1</b>	<b>0.6</b>



# Questions



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