



Boliden

General presentation
November 2011

Boliden fundamentals

- Large in zinc – global top ten
- Small in copper
- Lead, Silver and Gold
- Mining and Smelting operations
 - Zinc 70%, copper 25% integration
- Global leader in e-scrap recycling
- High environmental performance

- Several expansion projects



Key Ratios, 2010

| | |
|---------------------|----------------------------|
| Net sales | ▪ SEK 36.7 bn (5,6 USD bn) |
| Operating profit | ▪ SEK 5.6 bn (860 MUSD) |
| Number of employees | ▪ 4,412 |



Production Volumes, 2010

Zinc, tonnes

Mines 293,800

Smelters 456,000

Copper, tonnes

Mines 76,000

Smelters 303,200

Lead, tonnes

Mines 49,600

Smelters 17,000

Lead alloys 42,200

Gold, kg

Mines 3,700
(120 000 oz)

Smelters 14,200

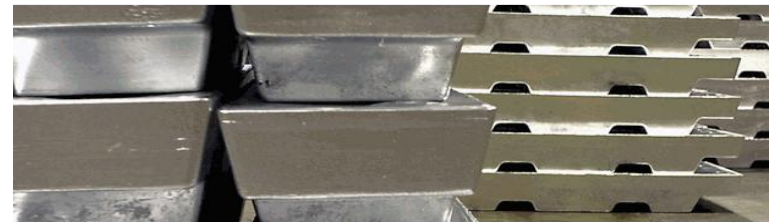
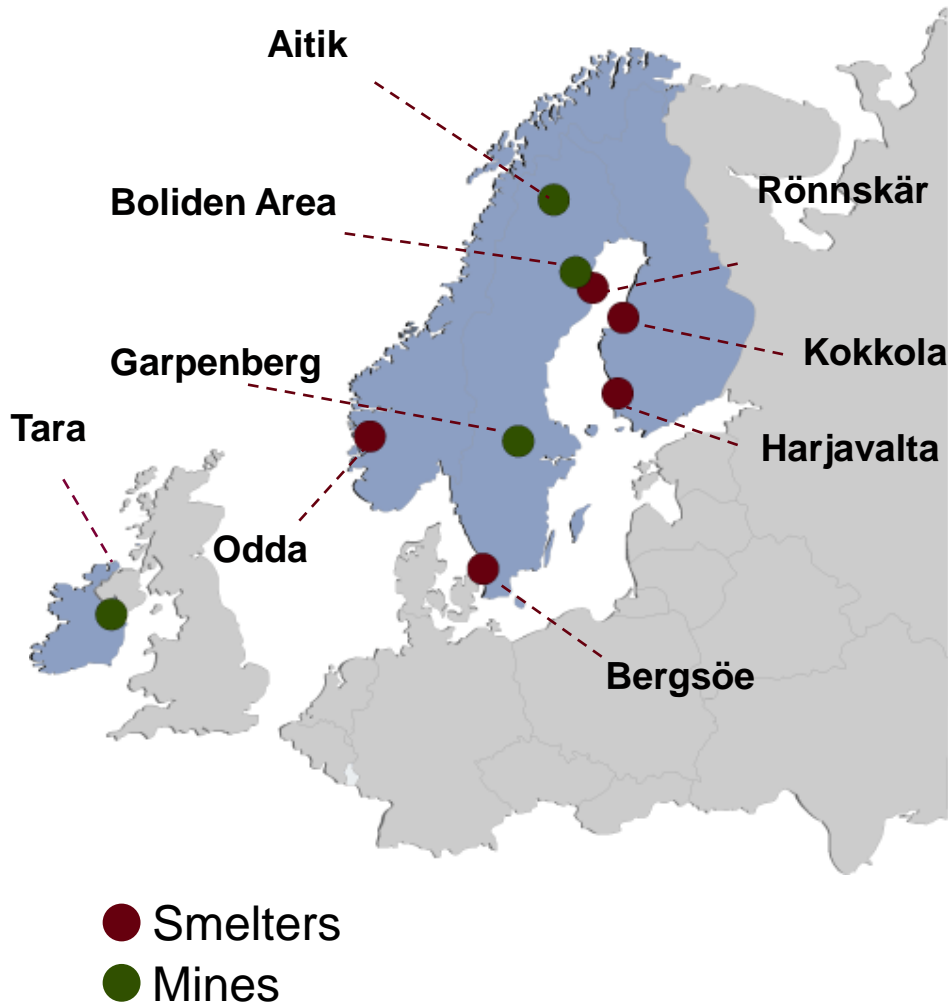
Silver, kg

Mines 230,800
(7.4 mio oz)

Smelters 450,300



A European based metals company



Boliden's mines

| | Metals | Operational focus |
|------------------------|---|---|
| Aitik Sweden | Copper, Gold | Ramp up to 36 mtonnes ore production by 2014 |
| Garpenberg Sweden | Zinc, Silver, Lead, (copper and gold) | Ore capacity to increase from 1.4 to 2.5 mtonnes. Ramp up begins 2014 |
| Tara Ireland | Zinc, Lead | Operational performance Efficiency and cost trimming |
| Boliden area Sweden | Zinc, Copper, Lead, Gold, Silver in three mines | New tailings pond, new gold mine - Kankberg, efficiency |

Boliden's smelters

| | Products | Operational focus |
|-----------------------|---|---|
| Rönnskär Sweden | Copper, Gold, Silver, Lead, Zinc, Palladium, Sulphuric Acid | E-scrap expansion Productivity, secondary raw materials |
| Harjavalta Finland | Copper, Gold, Silver, Nickel, Palladium, Sulphuric Acid | Process stability, secondary raw materials, nickel feed |
| Kokkola Finland | Zinc, Sulphuric acid | Productivity and energy costs |
| Odda Norway | Zinc, Aluminum fluoride | Process stability, cost level |
| Bergsöe Sweden | Lead (recycled) | Productivity, process stability, profitable feed |



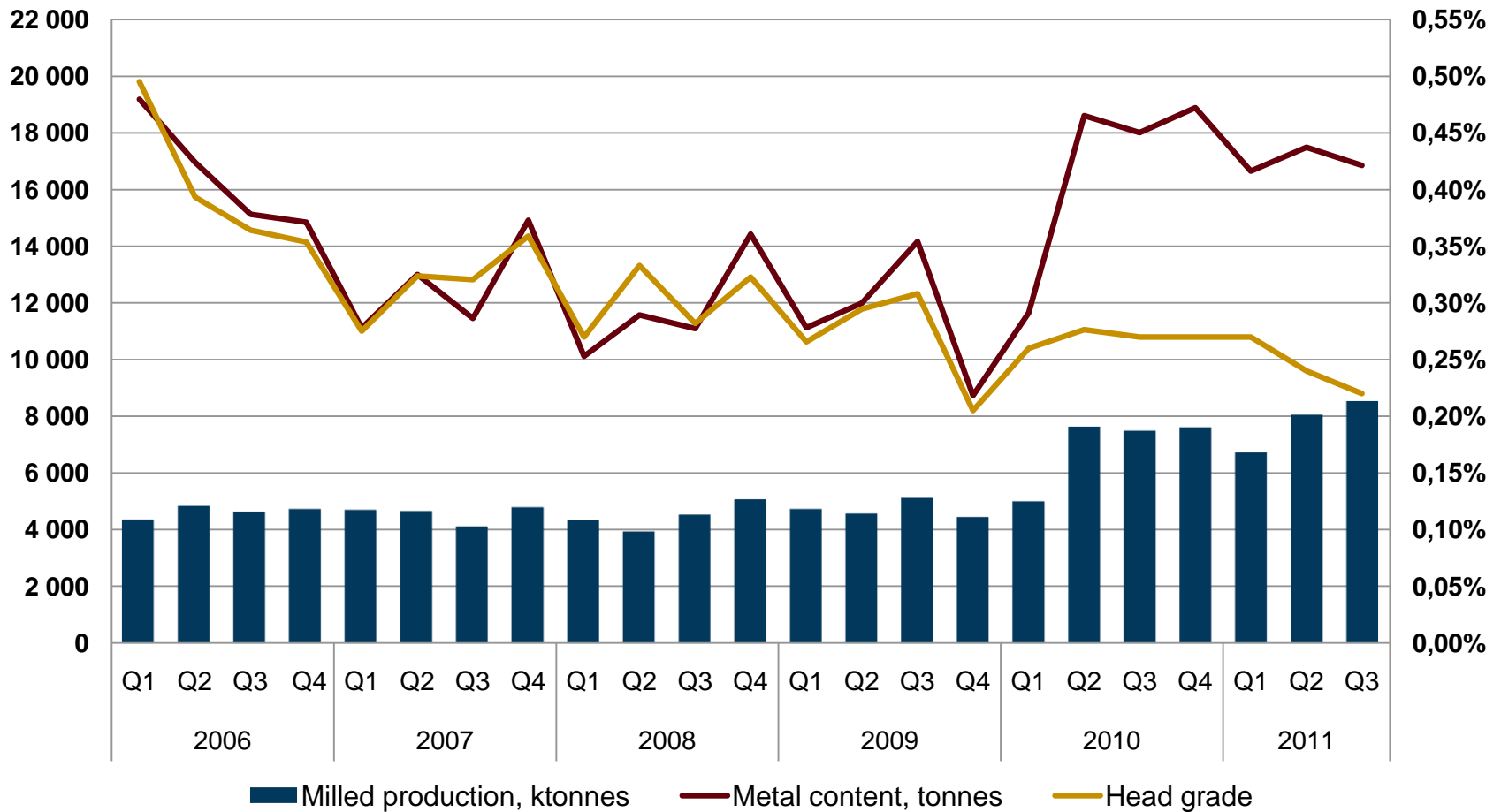
Expansion projects

Aitik expansion 2010-2014

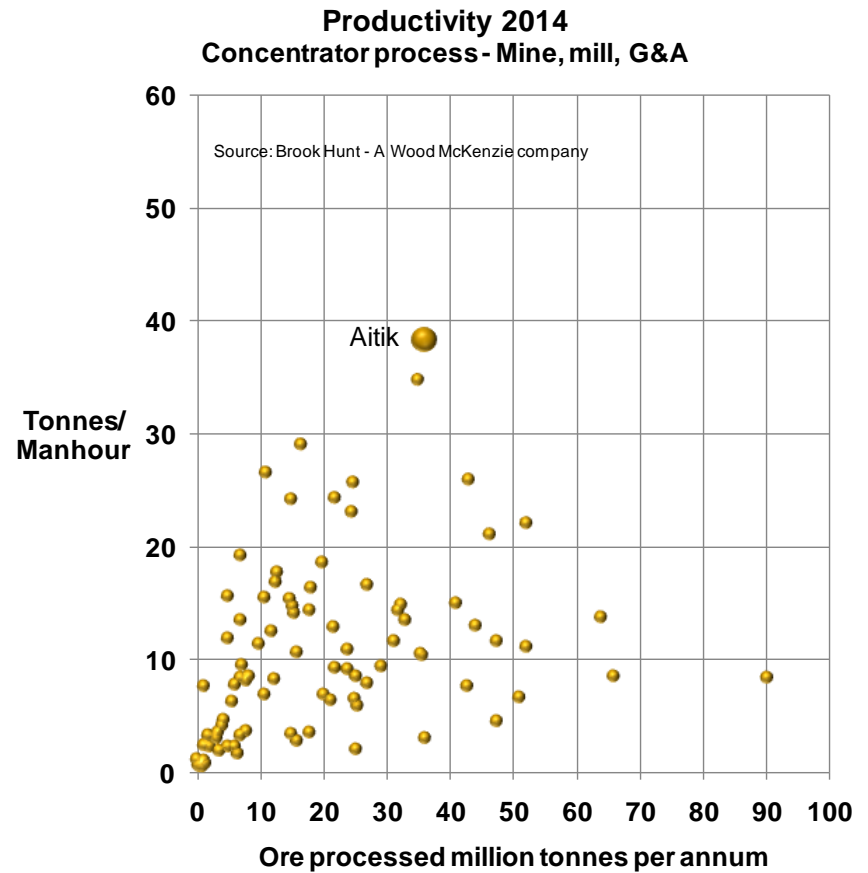
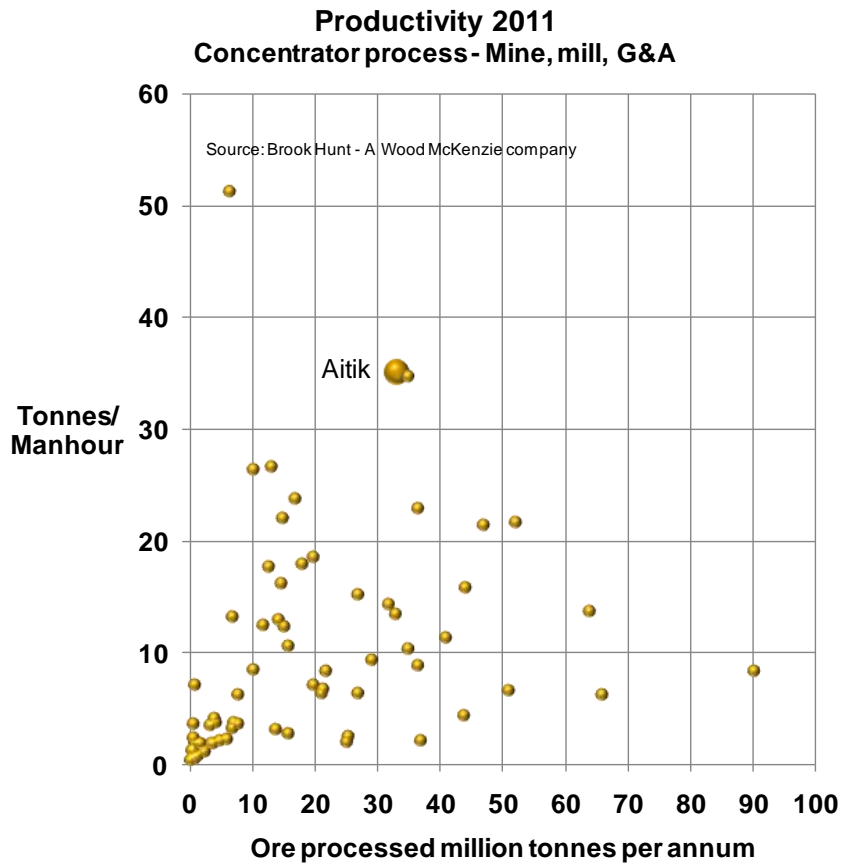
- Competitive position
 - High productivity
 - Favourable stripping ratio
 - Gold by-product
- From 18 to 36 Mtonnes of ore
 - 28 Mtonnes in 2010
 - Full production in 2014
- Capex 6.1 bSEK



Aitik development – Ore, Head Grade & Metal



Open pit copper mines, Brook Hunt benchmark



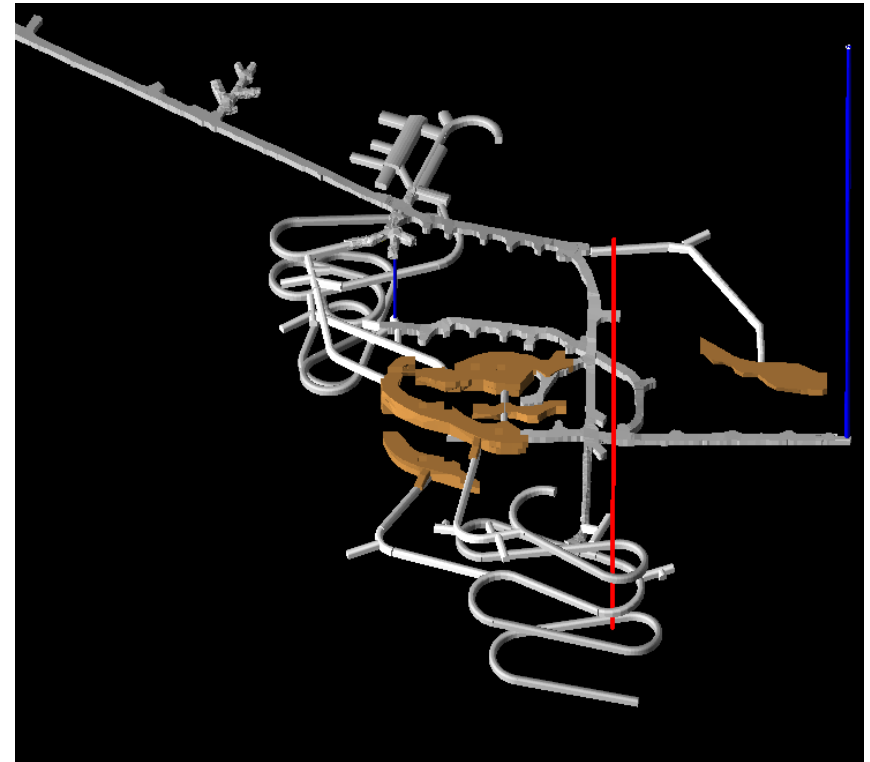
Boliden Area expansion 2010-2012

- New tailings capacity 2010
- Maurliden East 2010
 - New open pit copper mine
- Improved ore handling 2011
- Kankberg 2012
 - New gold/tellurium mine
- Capex MSEK 1,000



Kankberg – mid 2012

- Production
 - Ore 320 ktonnes
 - Gold 1,150 kg¹⁾ (high yearly variations)
 - Tellurium 41 tonnes¹⁾
- Start mid 2012
- Life of mine - 2020
- Capex MSEK 475
- Hedges and contracts
 - Gold 80% at 1,460 USD/tr oz to 2017
 - Tellurium contract at 280 USD/kg to 2018



¹⁾ Metal in concentrate

E-scrap expansion - 2012

- No 1 electronics recycling plant
- 45,000 to 120,000 tonnes/year
 - 2 tonnes gold
 - 14,500 tonnes copper
- Electronics from phones, computers
- Start early 2012
- Pay-back <4 yrs (EBITDA)
- Capex MSEK 1,300



Garpenberg expansion - 2014

- Ore production from 1.4 to 2.5 mtonnes
- Ore reserve 25.1 mtonnes
 - Zn 5.3%
 - Ag 145 g/ton
 - Pb 2.1%
- Concentrator and underground infrastructure
- Production start 2014
 - Full production end 2015
 - Production through 2030
- Capex SEK 3.9 billion
- Hedging
 - Zinc, copper, lead, gold and silver
 - 1/3 of Group's metal price exposure
 - 2011 through 1H 2013



Garpenberg expansion - Financials

- Capex SEK 3,9 billion

Capex per year, MSEK

| 2011 | 2012 | 2013 | 2014 |
|------|-------|-------|------|
| 850 | 1,600 | 1,300 | 250 |

- Profitable investment with robust financials
- Productivity increases from high levels
- Improved competitive position
- Production cost per tonne of ore decreases by approx. 25 percent

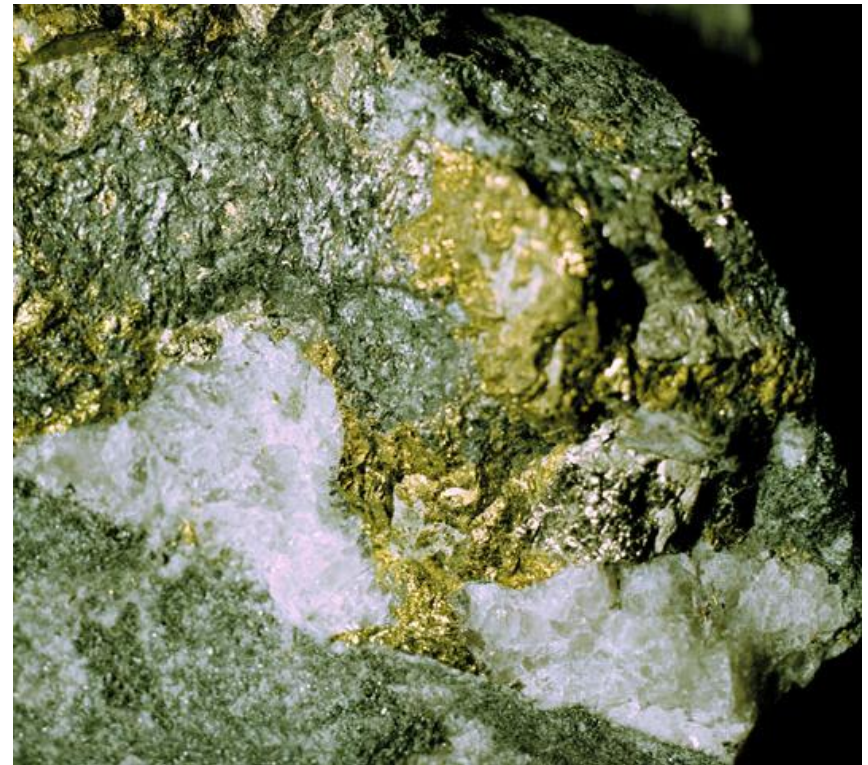




Ore Reserves & Mineral Resources

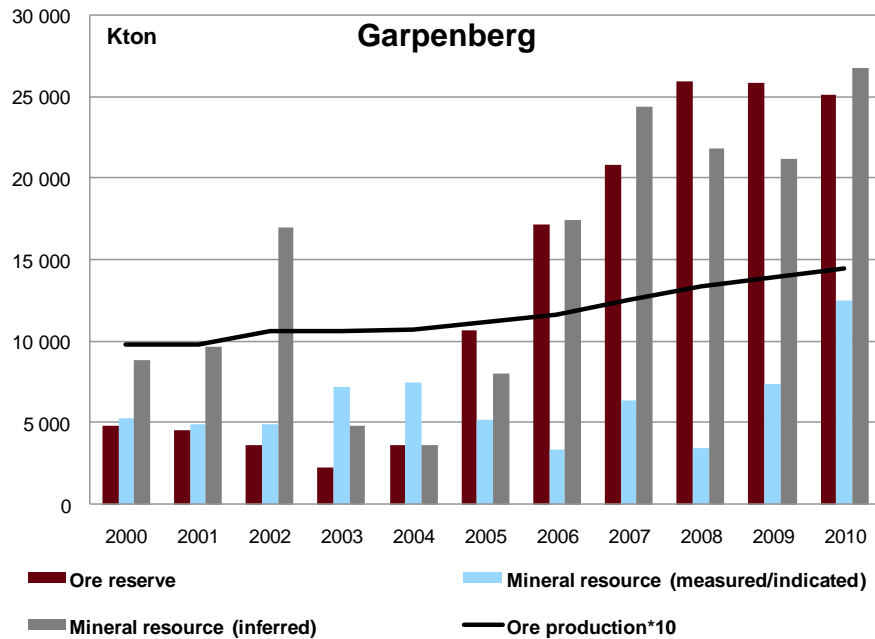
Ore Reserves & Mineral Resources - Summary

- Continued stable trend
- 229 MSEK invested in exploration 2010
- Increased mineral resources in Aitik and Garpenberg
- Significant increase in ore reserves in the Boliden area

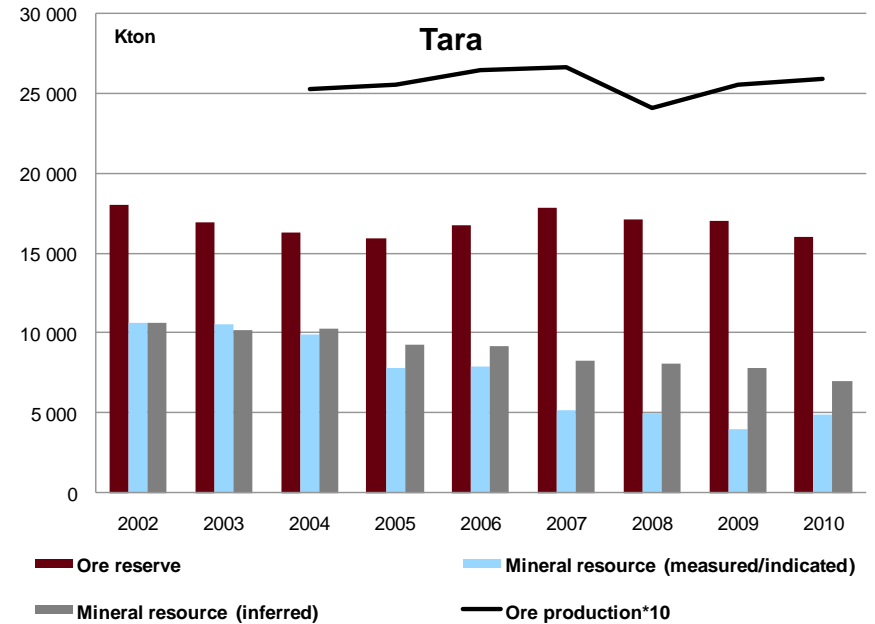


Exploration

Mineral Resources and Ore Reserves 2000-2010



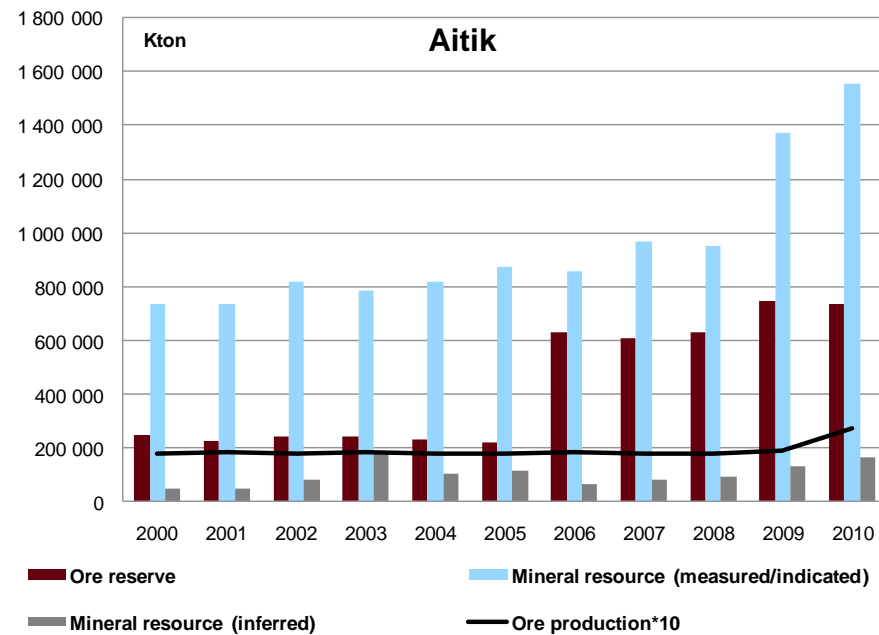
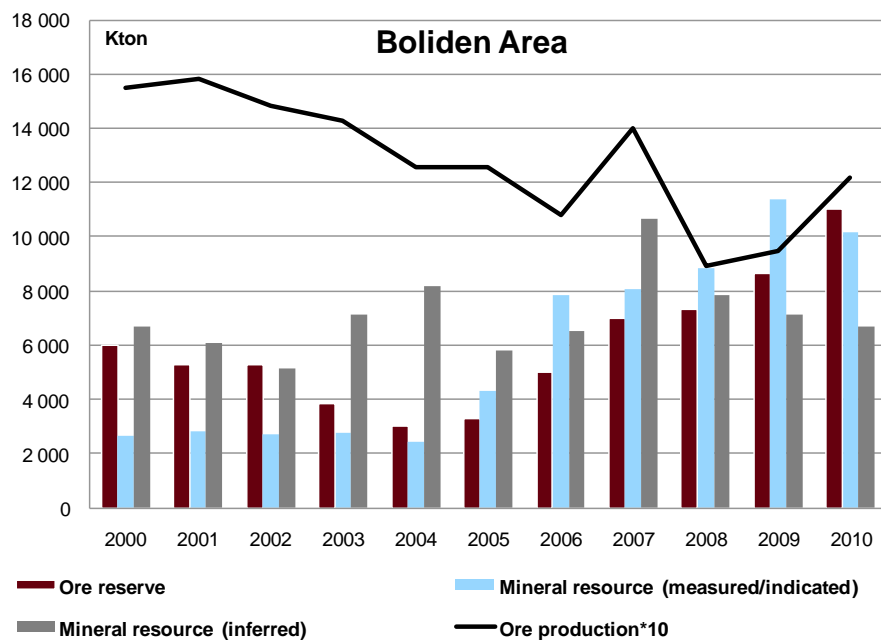
- Mineral resources increased by 38%



- Mineral resources unchanged
- Ore reserves slightly reduced

Exploration

Mineral Resources and Ore Reserves 2000-2010



- Ore reserves grew by 29%

- Mineral resources increased by 14%





Boliden's Position

BOLIDEN

Boliden rank

Zinc mining 2010

| | | kt |
|----|----------------------|------------|
| 1 | Glencore | 743 |
| 2 | Hindustan Zinc | 718 |
| 3 | Xstrata (free float) | 666 |
| 4 | MMG | 664 |
| 5 | Teck Cominco | 646 |
| 6 | Anglo American | 360 |
| 7 | Volcan | 338 |
| 8 | Boliden | 294 |
| 9 | Sumitomo | 289 |
| 10 | Votorantim | 233 |

Zinc smelting 2010

| | | kt |
|----|----------------------|------------|
| 1 | Nyrstar | 1,077 |
| 2 | Korea Zinc Group | 940 |
| 3 | Hindustan Zinc | 669 |
| 4 | Votorantim | 488 |
| 5 | Boliden | 456 |
| 6 | Xstrata (free float) | 439 |
| 7 | Glencore | 438 |
| 8 | Teck Cominco | 278 |
| 9 | Peñoles | 233 |
| 10 | Mitsui | 210 |

Copper mining 2010

| | | kt |
|-------|------------------|-----------|
| 1 | Codelco | 1757 |
| 2 | Freeport-McMoRan | 1436 |
| 3 | BHP Billiton | 1135 |
| 4 | Xstrata | 907 |
| 5 | Rio Tinto | 701 |
| 6 | Anglo | 645 |
| 7 | Grupo Mexico | 589 |
| 8 | Glencore | 509 |
| 9 | SCC | 476 |
| 10 | KGHM | 426 |
| 35-40 | Boliden | 76 |

Copper refining 2010

| | | kt |
|-----|------------------|------------|
| 1 | Codelco | 1864 |
| 2 | Aurubis | 1132 |
| 3 | Freeport-McMoRan | 1012 |
| 4 | Jiangxi Copper | 901 |
| 5 | Xstrata | 753 |
| 6 | Nippon Mining | 613 |
| 7 | Glencore | 591 |
| 8 | BHP Billiton | 578 |
| 9 | Sumitomo | 550 |
| 10 | Grupo Mexico | 550 |
| ~15 | Boliden | 303 |

Source CRU

Zinc

- Top ten position both in mines and smelter

Copper

- Significant part of Boliden
- Small global producer

Electronic recycling

- Global market leader





Objectives

Financial Goals

- Return on capital employed exceeding 10 % over a business cycle.
 - 21% 2010
- Net debt/equity ratio in an economic upturn no higher than 20% in order to maintain a reasonable financial ability to act in a recession.
 - 24% 2010
- Dividend one third of net profit.
 - 5 SEK 2010 (34.6 %)



CSR goals

- **Social responsibility**
 - Securing tomorrow's skill pool
 - Diversity and equal opportunity
 - Implementation of New Boliden Way
 - Create a safe working environment
- **Environmental responsibility**
 - Minimise emissions to air and water
 - Limit impact on the physical environment
 - Responsible management of waste
- **Financial responsibility**
 - A positive economic and social impact on the local community

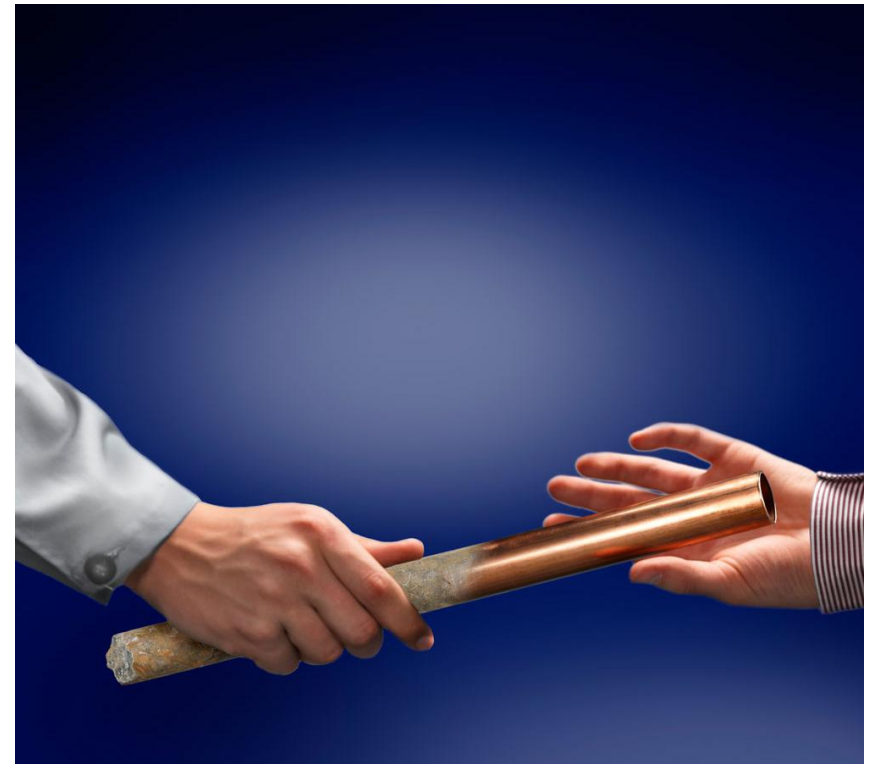




Strategy

Boliden strategy

- **Operational excellence**
 - Production stability and productivity
 - New Boliden Way
- **Organic growth**
 - Eliminating production bottlenecks
 - Long-term growth investments
 - Near-mine exploration
- **Acquisitions of mines and projects**
 - Focus on zinc
 - Boliden's competence offers excellence opportunities to create value



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**Boliden produces metals that
make modern life work**