



## **Minerals Market Outlook**

George Robles, President & CEO

FLSmidth Capital Markets Day, 26 January 2007



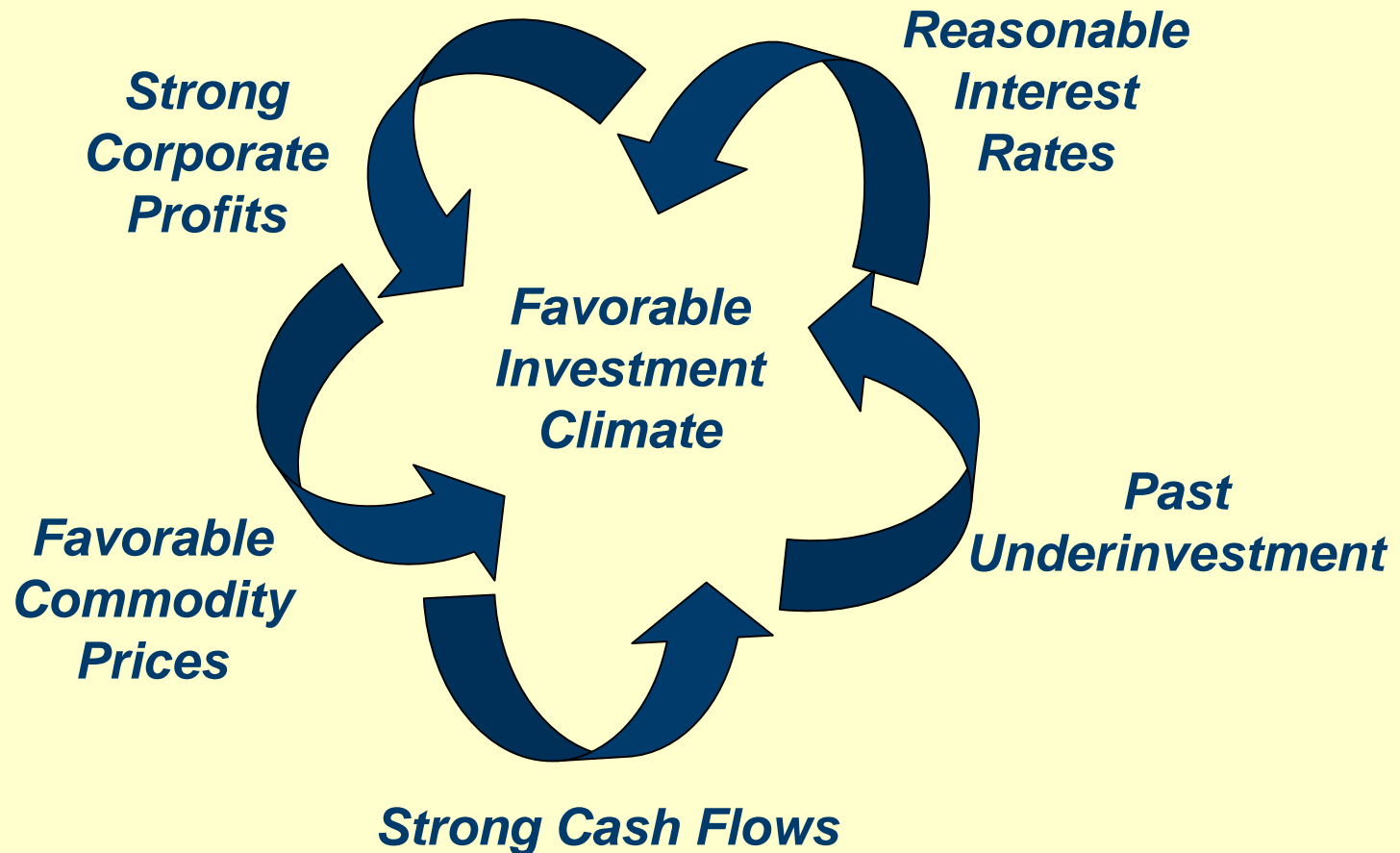
## Market Outlook (1)

- The mining industry is currently enjoying the **largest boom in its history**
- The main driver has been a substantial increase in demand for commodities fuelled by rapid economic growth in **China** coupled with **under investment** in the mining industry for years
- Currently, the most attractive of many new projects in the pipeline are being initiated due to **severe shortages** of specialized large mining machinery as well as qualified and experienced personnel. This will, all other things being equal, lead to a **prolonged boom** in the mining industry
- We believe that the current **favorable market conditions for CAPEX investment** will continue for at least the next **3-5 years**





## Overall a Positive Investment Climate





## Market Outlook (2)

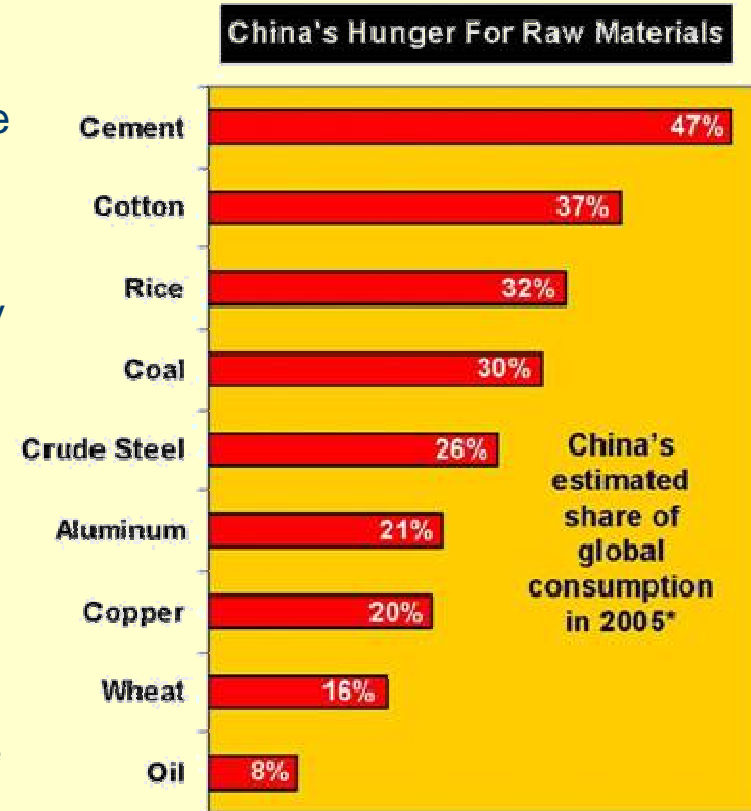
- The major mining companies have been focusing on **growth through acquisitions**
- All indications, and history, tell us that the focus will shift towards bringing forward **additional production**
- Exploration spending is at an all time high, but there has been a declining **discovery rate** of "Tier 1" deposits in recent years
- Traditional exploration/production areas are **reaching maturity**
- **New Mining Regions** are being established such as Russia and the CIS countries, China, Mongolia, and a notable return of investment in Africa
- Mining and Metal **Capex levels** tend to peak 2-3 years after the metal prices peak, therefore, demand for equipment will continue at least through the end of the decade





## Global Demand for Raw Material Influences Price and Availability

- **Developing economies** such as China are competing for available raw materials as they continue to build infrastructure
- **China** achieved 12% of the world economy on purchasing power parity basis in 2004 (second to the United States)
- In 2004, China accounted for half of global growth in metals demand, and one-third of global growth in oil demand
- China's economy has a high energy intensity. The country uses 20-100% more energy than OECD countries for many industrial processes.



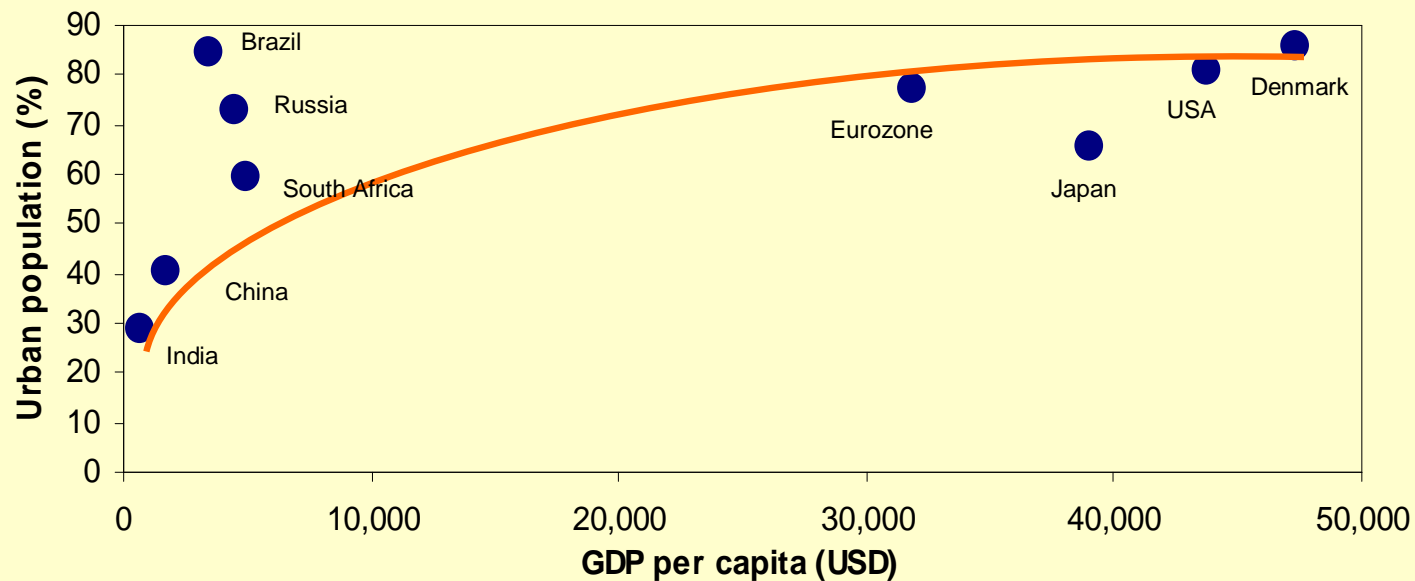
Data: U.S. Geological Survey, Energy Dept., Agricultural Dept.



## Urbanisation

- a key long term driver for materials consumption

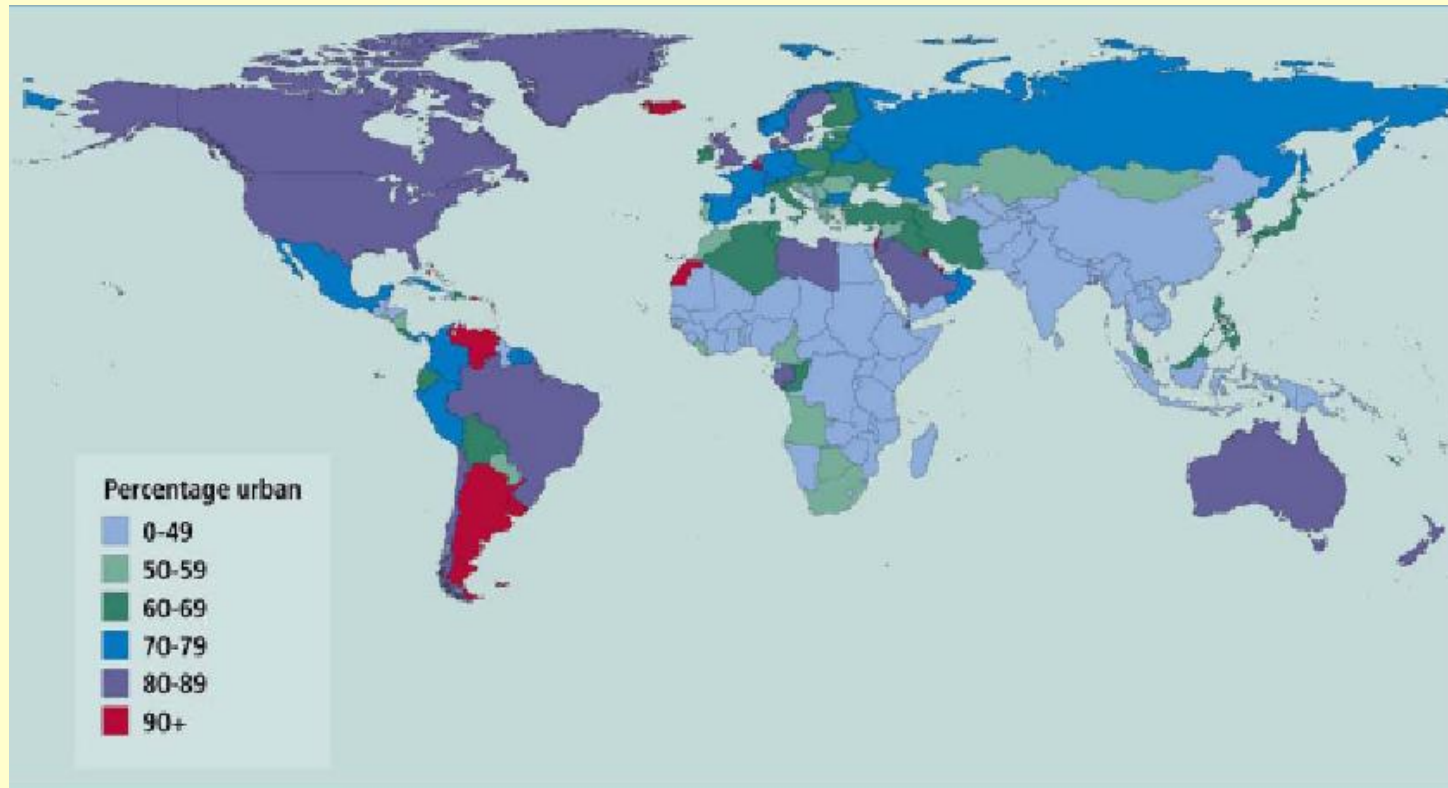
Urban population ratio vs. GDP per capita





# Market outlook

## Percentage of population living in urban areas



Source: United Nations; World Urbanization projects: the 2005 revision

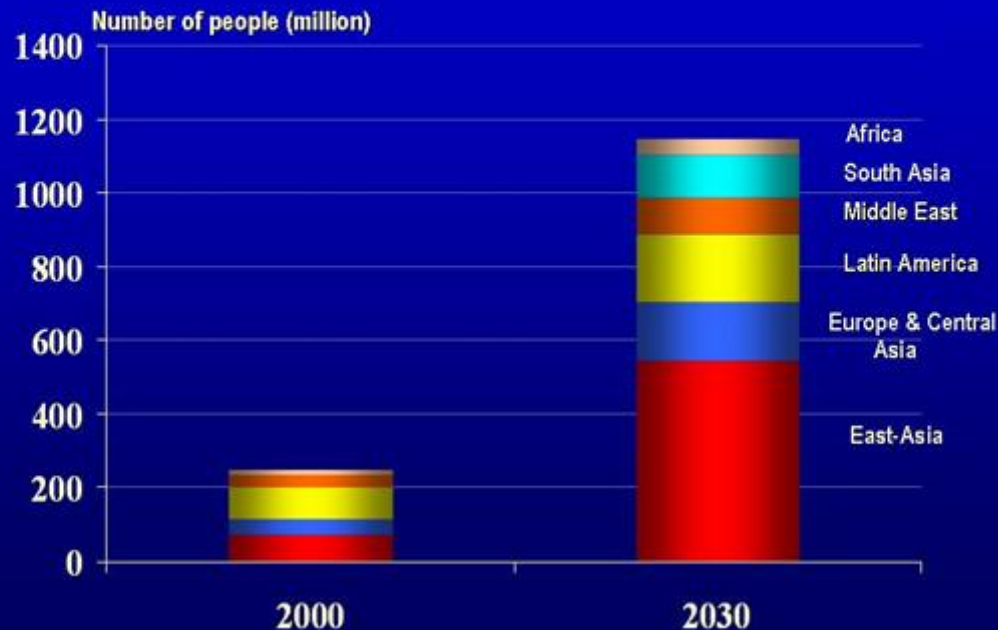




## Emergence of a global middle class

### Growth would raise income and reduce absolute poverty

- Average per capita incomes in developing countries are likely to double..
- ...and more people from developing countries will enter the "global middle class"



- "By 2030, 1.2 billion people in developing countries (15 percent of the world population) will belong to the "global middle class," up from 400 million today.

- This group will have a purchasing power of between \$4,000 and \$17,000 per capita, and will enjoy access to international travel, **purchase automobiles and other advanced consumer durable goods.....**"

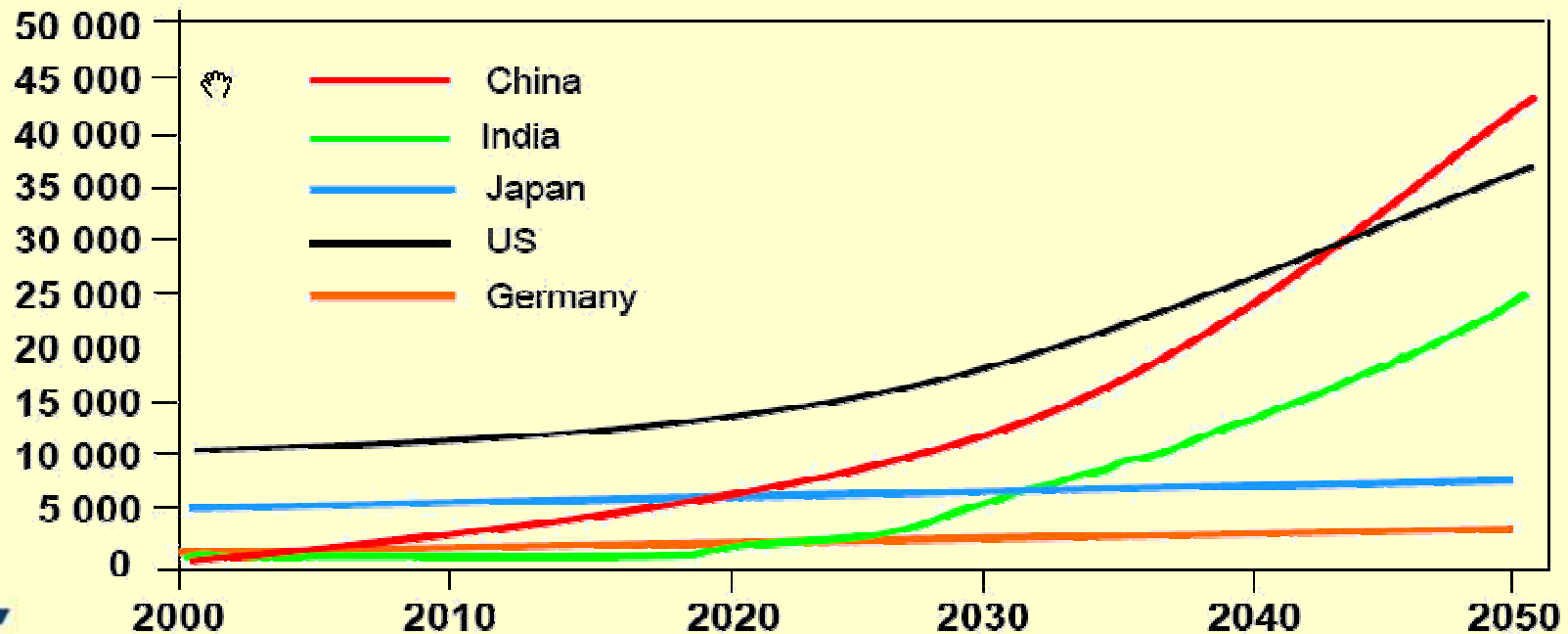




## China and India – Some years ahead

**GDP**  
(2003 US\$bn)

**China Overtakes the G3; India Is Close Behind**



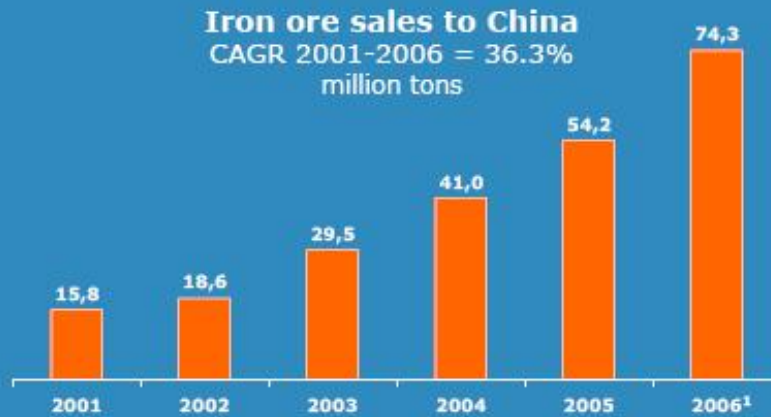
# Market outlook



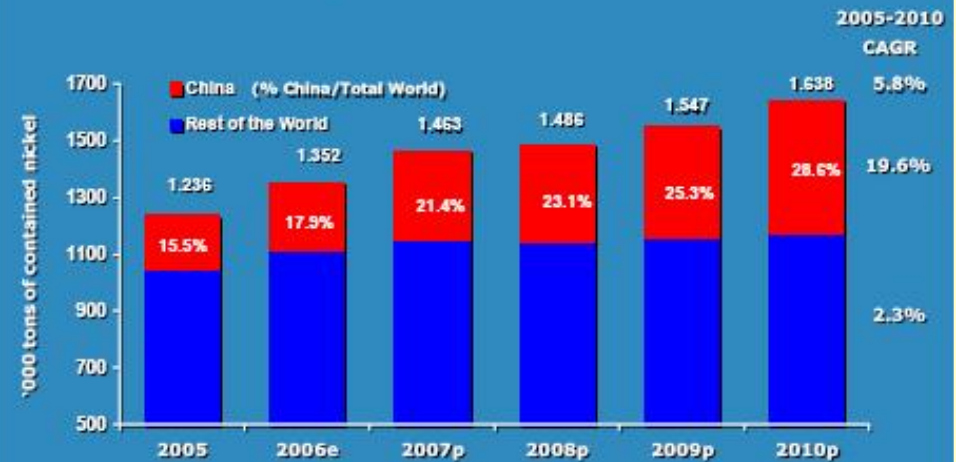
## China

– will continue to be the major driver of materials consumption

**CVRD is supporting the massive growth of Chinese iron ore demand**



**China will be the major driver of nickel demand growth in the next years, with an estimated growth rate close to 20% p.a.**



Source: CVRD



# Market outlook

## Urbanisation - the key long term driver for materials consumption

**We expect the global iron ore market to stay tight for the near future**

- CISA forecasts a 13% p.a. average growth rate for Chinese steel production during 2006-2012
- The Middle East is the new world booming region: investments in construction and industrial capacity in the GCC<sup>1</sup> countries are growing dramatically
- Indian iron ore export growth will lose steam due to the requirements of an expanding domestic steel industry

**We expect the global demand for iron ore to increase 215 Mt from 2006 to 2010**

Global seaborne trade



Source: CVRD



## Supply is responding, but not quickly enough

- Low metals prices in the 1990's caused cutbacks in exploration expenditure and industry capex
- Producers did not anticipate just how strong demand would be. Unwillingness to invest in what is almost entirely a China story
- High prices provide the incentive to develop new resources, but doing so takes time – Capex follows profit cycles
- Production has not been delivered as planned over the last two years due to lower ore grades, unplanned outages (strikes), lack of equipment (trucks, tires) and skilled staff
- High construction costs will make some of the new projects unfeasible

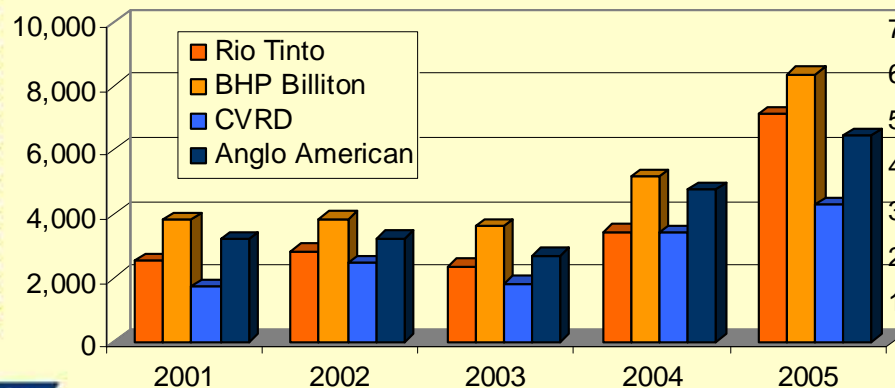


# Market outlook

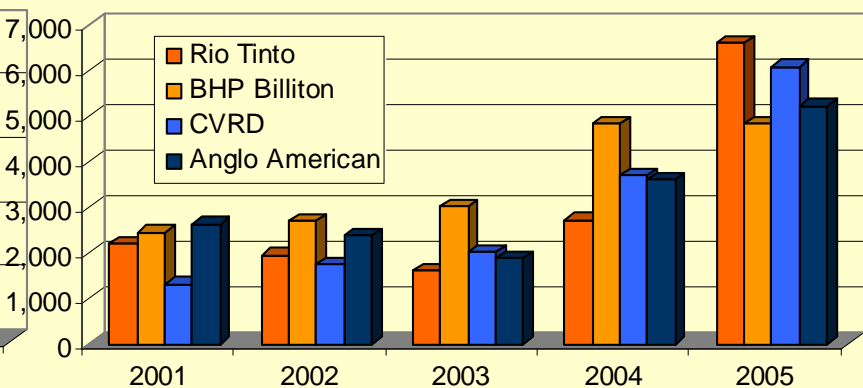
## Strong corporate profits and cash flow

- The mining companies are profiting from increased demand and higher metal prices
- They have plenty of cash to spend on acquisitions, distribution to shareholders and new production
- Focus is shifting from acquisitions to bringing forward new production

USDm **Cash Flow from Operations**



USDm **Operating Results**







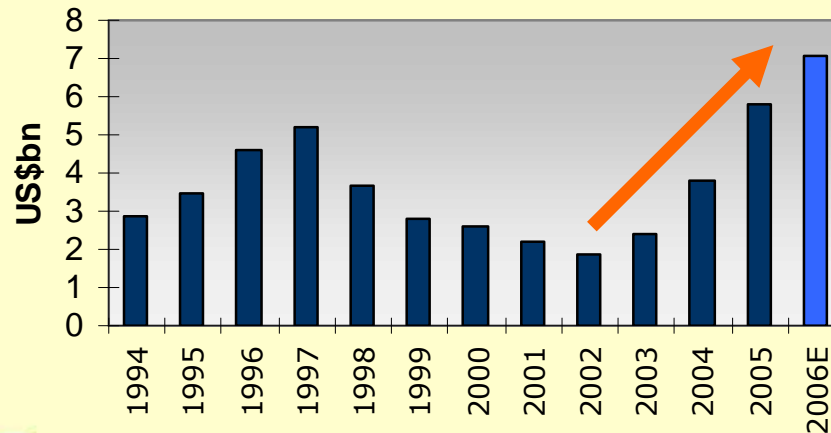
# Market outlook

## Global exploration and Capex trends

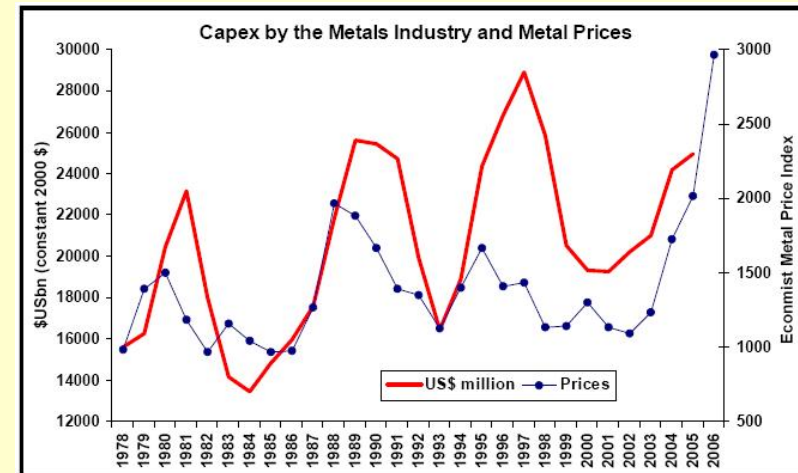
- Investments in exploration have increased 3-fold since 2002
- Metal Industry Capex is cyclical and follows metal prices
- Historically, Metal prices have peaked 2-3 years before Metal Industry Capex

### Global investments in exploration of non-ferrous metals

Source: Metals Economics Group



### Development in Metal Prices and Metal Industry Capex



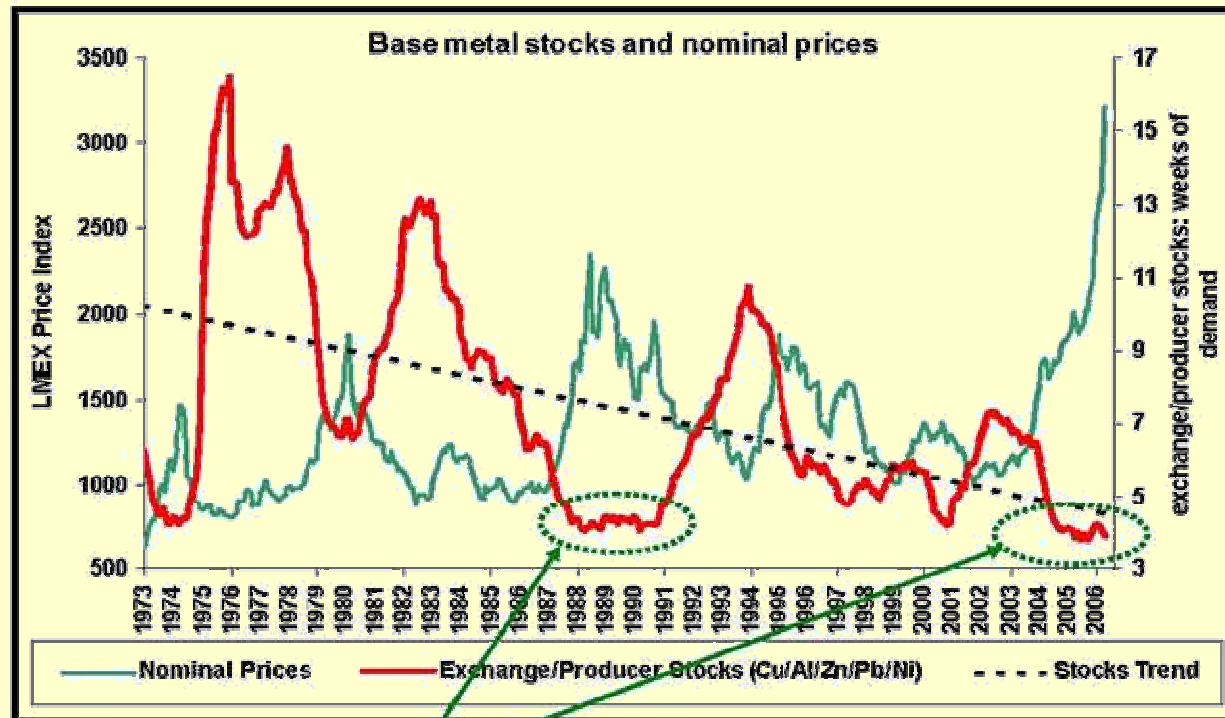
Source: Industry Sources, LME, Macquarie Research, May 2006





# Market outlook

If stocks remain chronically tight, prices can remain high



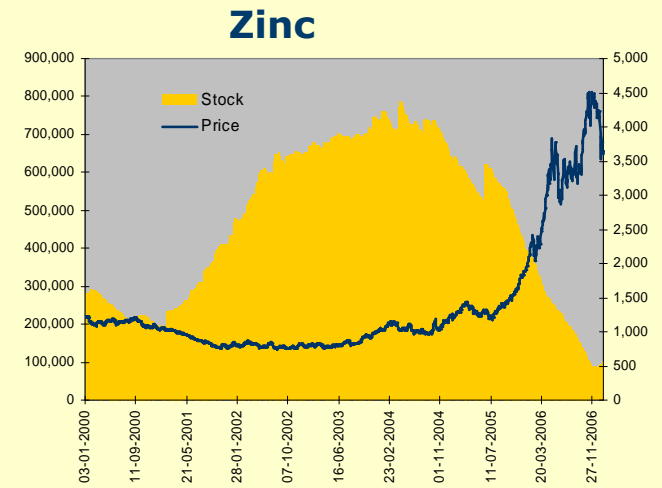
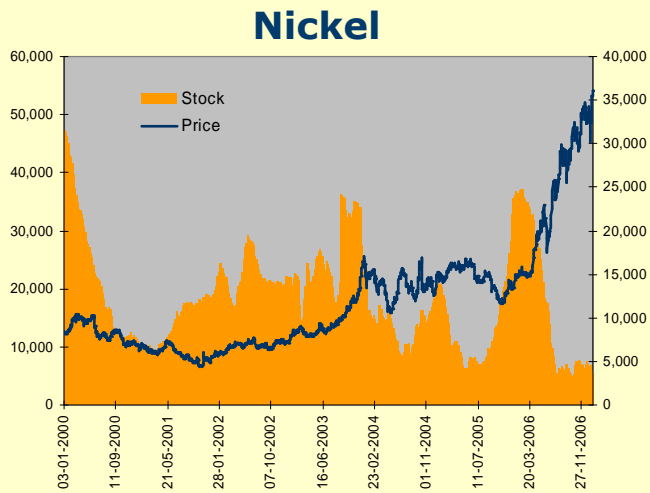
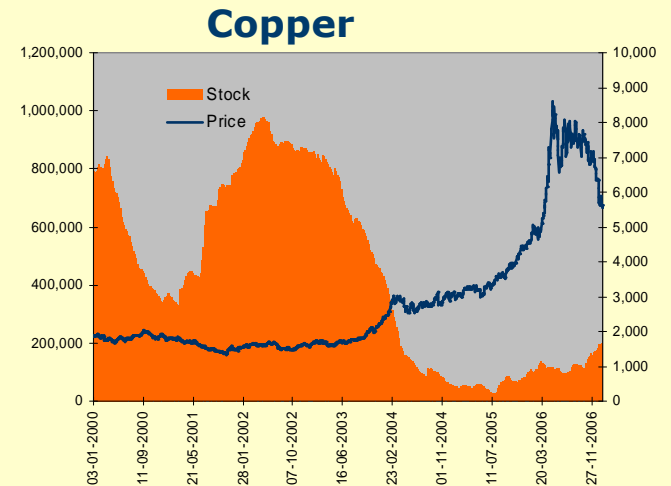
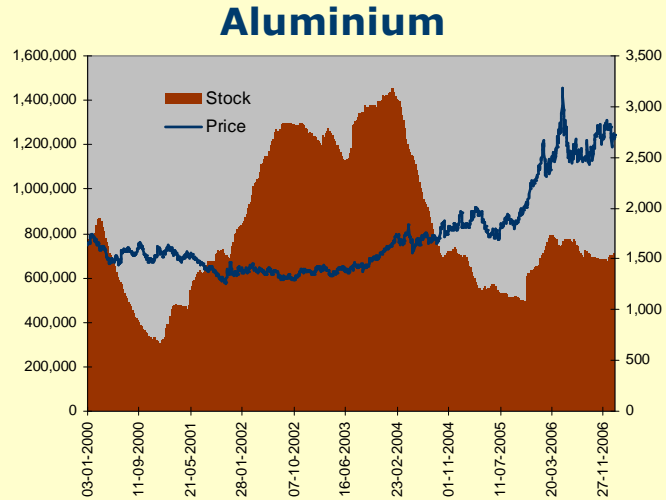
Source: LME, Macquarie Research, May 2006

- In the late 1980s, market inventories stayed at critically tight levels despite slowing economic growth – this is what supported prices then...and now.



# Market outlook

## Developments in Commodity Stocks and Prices





## Minerals Market Outlook

### Overall a positive investment climate

- Past underinvestment
- Favorable commodity prices
- Strong corporate profits and cash flow
- Capex generally lags metal market peaks by 2-3 years
- Growing middle-class creates demand





*THANK YOU*

FFE  
MINERALS

