



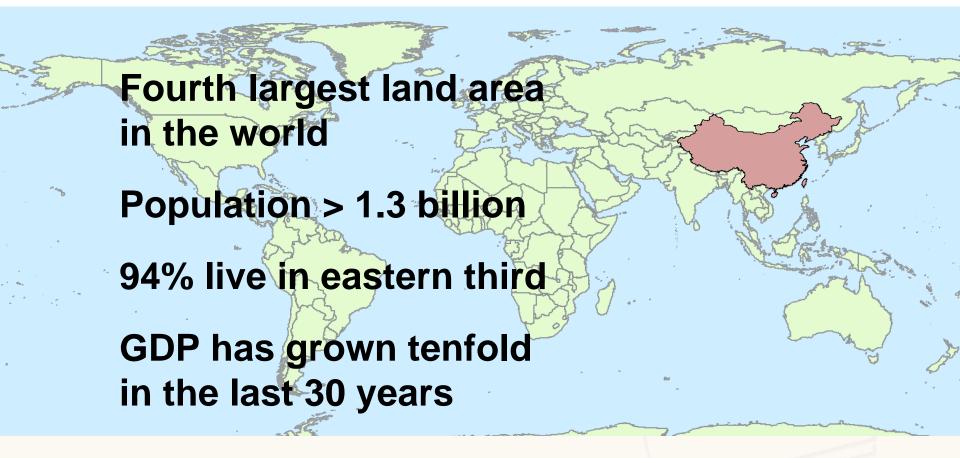
# Mineral statistics in BGSthe example of China

Teresa Brown
14 October 2008

Kingsley Dunham Centre Keyworth Nottingham NG12 5GG Tel 0115 936 3100



# A few facts about China





# A world leader in mineral production

Alumina

Asbestos

Beryl

**Cadmium** 

Cobalt (metal)

**Diamond** 

Fluorspar

**Graphite** 

Pig iron

Lead (refined)

Manganese (ore)

Natural gas

Nickel (smelter)

Platinum group

Selenium

Sulphur & Pyrites

Tin (ore) Uranium

Zinc (ore)

**Aluminium** 

**Barytes** 

**Bismuth** 

Chromium (ore)

Copper (ore)

Diatomite

Fuller's earth

**Gypsum** 

Crude steel

Lithium

Mercury

Sodium carbonate

**Perlite** 

Potash

Sillimanite

Talc

Tin (smelter)

Vanadium

Zinc (slab)

Antimony

Bauxite

Borates

Coal

Copper (smelter)

Feldspar

Germanium

lodine

Kaolin

Magnesite

Mica

Nepheline syenite

Petroleum

Rare earths

Silver

Tantalum/Niobium

Titanium

Vermiculite

Zirconium minerals

**Arsenic** 

**Bentonite** 

Bromine

Cobalt (ore)

Copper (refined)

Ferro alloys

Gold

Iron ore

Lead (ore)

Magnesium

Molybdenum

Nickel (ore)

**Phosphates** 

Salt

**Strontium** 

Tellurium

Tungsten (ore)

Wollastonite

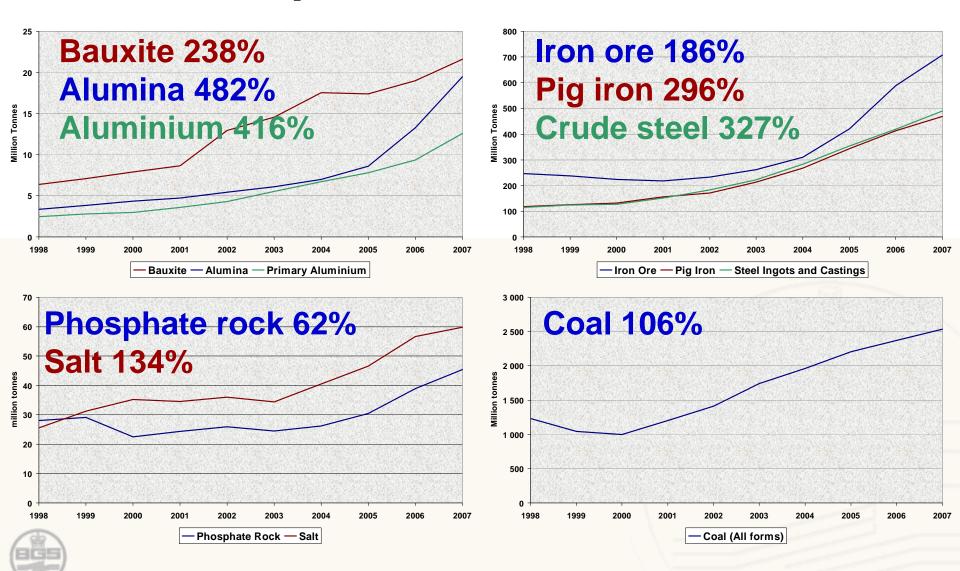


# The scale of production

- More than 80% of the world's production of antimony, graphite, rare earths and tungsten
- More than 50% of the world's production of magnesite, mercury, fluorspar and barytes
- More than 30% of the world's production of coal, bismuth, iron & steel, lead, mica, talc and tin

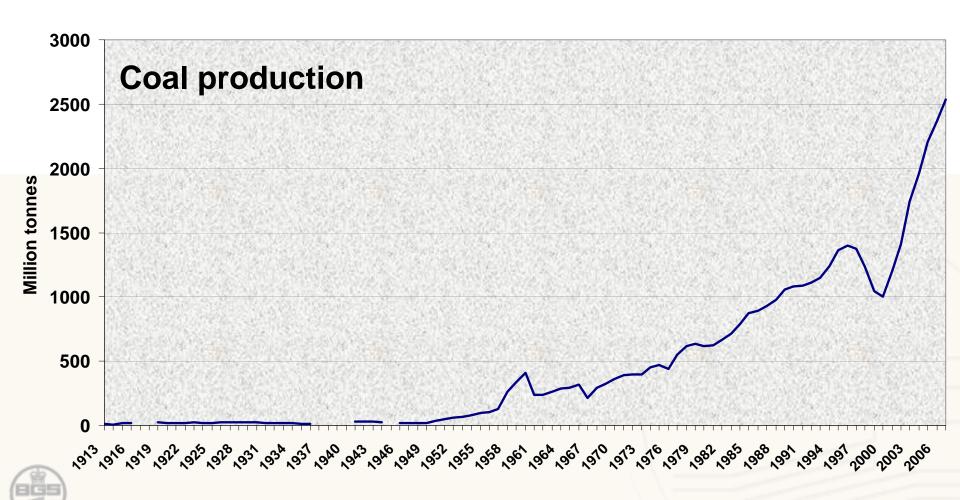


# Trends in production data 1998-2007

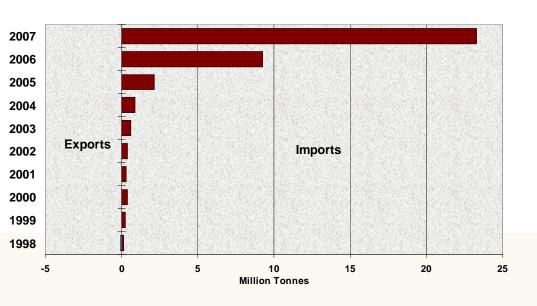


# **Historical trends**

BGS has data back to early 20th century



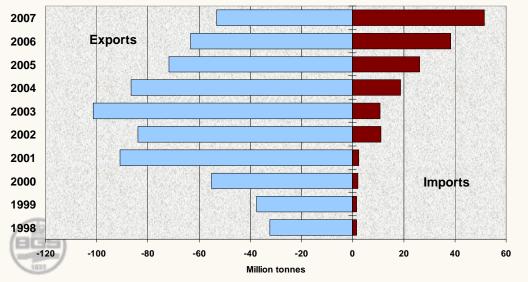
# Trends in trade statistics



#### **Bauxite**

Imports have increased by > 15,000%

Exports have reduced from approx 84,000 tpa to zero

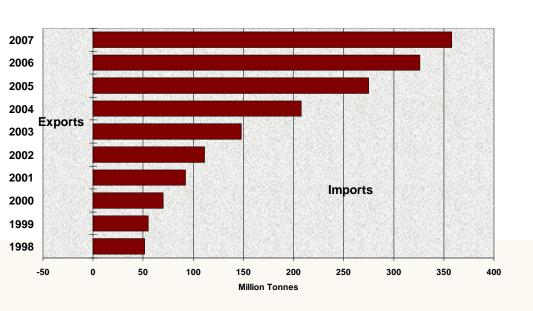


#### Coal

Imports have increased by > 300%

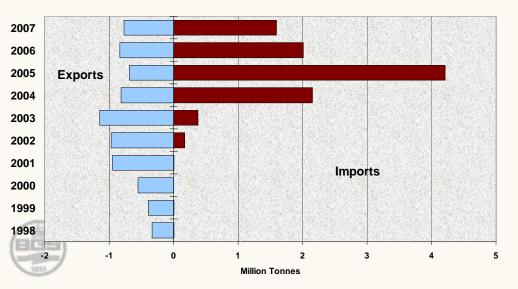
China is still a net exporter of coal – but only just!

# Trends in trade statistics



#### **Iron Ore**

Imports have increased by nearly 600%

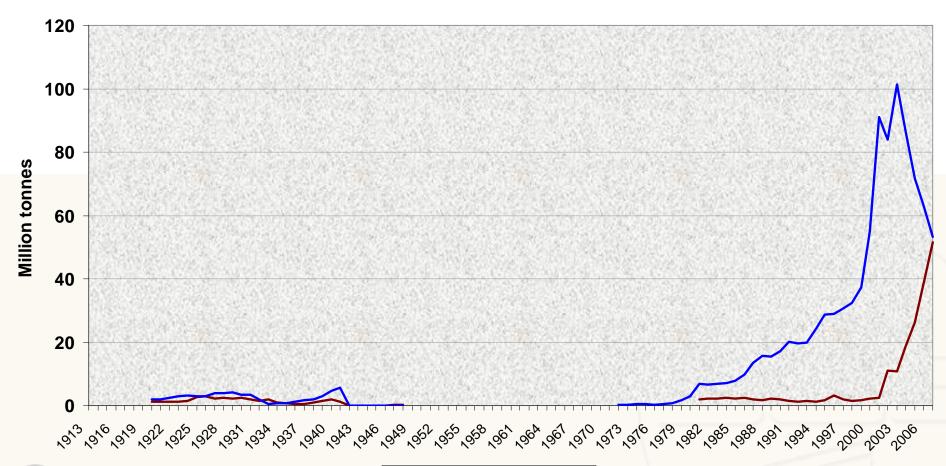


#### **Salt**

In 2004 China changed from being a net exporter to a net importer of salt

# Historical trends in trade

BGS also has historical trade data – for example: coal





# How reliable is the data?

Previously, Govt ministries controlled state-owned companies

#### data reliable but confidential

 Recently state controls have loosened, more private companies and industry associations are now involved:

#### more data available but less reliable

"... since China reform many government ministries and offices were cancelled. Now no government office controls the industrial minerals industry ..."



# How reliable is the data?

- Production statistics may be collected from large producers only
- Small companies outside of controls
- Metal statistics are more reliable than industrial minerals data

"... major metal producers dominate production of metals in China and it is not very difficult for administrations or associations to collect data from them ..."

"... there are many small producers of industrial minerals in China, the association could not collect information from all producers ..."



# How reliable is the data?

 BGS receives industrial minerals data from a contact in China – but it is important to know who your friends are!

"... actually, there are three levels of cost available in China, the lowest one for a close friend, the normal one for Chinese and the much higher one for foreigner ..."

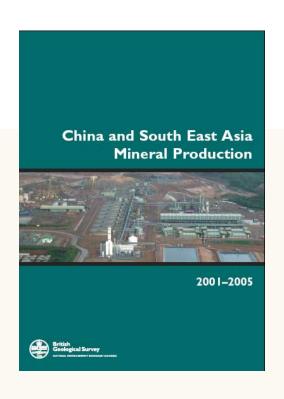


# Conclusion

- China's growth in GDP has been around 10% per year for several years and this is reflected in their mineral production and trade
- China is the world's largest producer of approximately half the commodities we monitor
- Data collection is difficult, but the BGS continues to make every effort to ensure our data is of the highest possible quality







For further information on the work conducted by the BGS minerals team, or for free downloads, please visit our website:

www.mineralsUK.com

Thank you

