



Zinc Market Outlook

Kareem Barbir, Market Analyst

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Nyrstar's expanding global multi-metals footprint

Nyrstar is an integrated mining and metals business, with market leading positions in zinc and lead, and growing positions in other base and precious metals; essential resources that are fuelling the rapid urbanisation and industrialisation of our changing world. Nyrstar is incorporated in Belgium and has its corporate office in Switzerland. Nyrstar is listed on NYSE Euronext Brussels under the symbol NYR, and is a member of the BEL20.

- One of the world's largest integrated zinc producers
 - 1.1 million tpa zinc metal
 - 475,000 tpa zinc in concentrate¹
- Market leading position in lead
- Expanding multi-metals footprint
 - Growing production of copper, gold, silver and lead
- Nine mining operations
- Six smelters
- Employing over 7,000 people across five continents

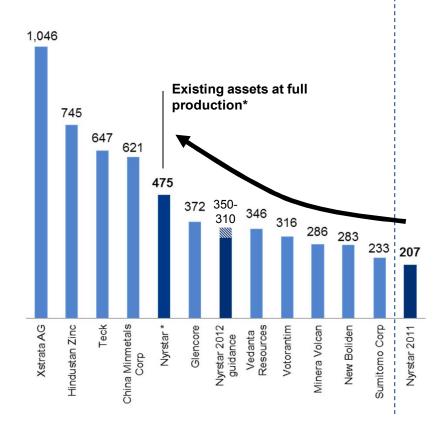


Nyrstar's zinc output and mining integration at a glance

One of the world's largest zinc smelters (kt pa)

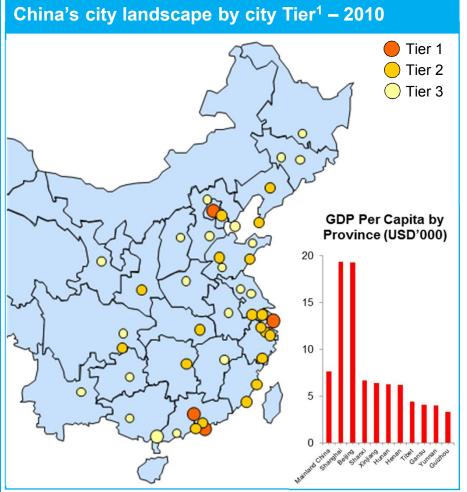
1,125 1,055 761 636 600 461 335 338 302 291 Korea Zinc Group Shaanxi Nonferrous Metals Glencore Hindustan Zinc Nyrstar Xstrata AG Votorantim New Boliden Huludao Zinc Co

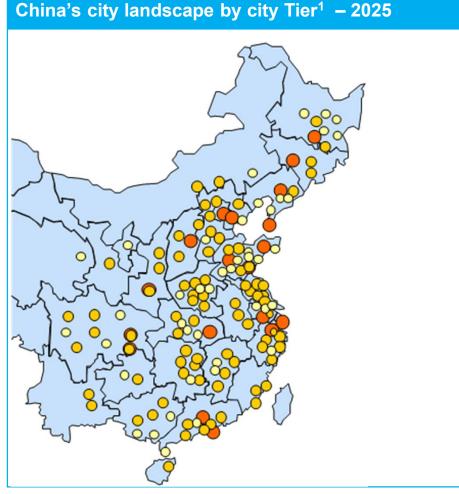
Top five zinc miners (kt pa)



SOURCE: Brook Hunt 2011 mine and smelter production rankings (Long Term Outlook Zinc, Q1 2012). Nyrstar actual 2011 production included

China's urbanization to date has been mainly coastal but will extend to inland China, adding ~15 Tier 1 cities over the next 15 years





¹ Tier 1 city defined as registered population >4.5 m and GDP/capita >USD 3,000, Tier 2 city defined as either registered population >4.5 m or GDP/capita >USD 3,000 Tier 3 city defined as registered population 1.5-4.5 m and GDP/capita USD 1,500-3,000

Commodity intensity evolves as cities start to develop



- Consumer dominates economy
- Commodity intensity declines
- Only commodities with increased intensity are light/environmental metals and commodities used in leisure activities



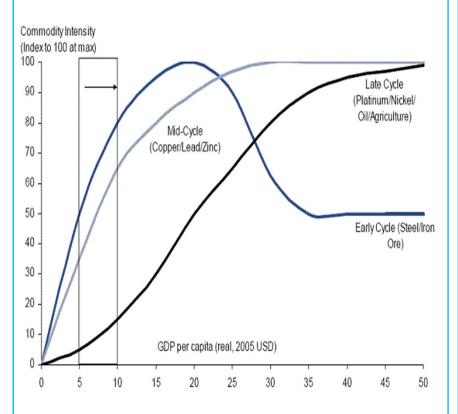
- Increased consumer spending on goods with high commodity content
- Acceleration of energy use
- Increased intensity of copper, zinc and aluminium



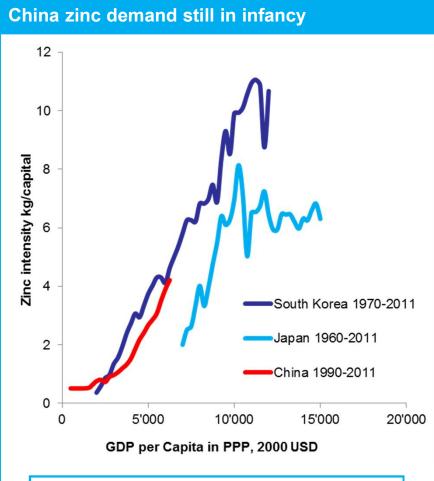
- Infrastructure and heavy industry dominates economy
- Acceleration in demand for cement, steel, iron ore and coking coal though early stage development
- Early stage increases in demand for energy, other industrial metals, chemicals etc..

Zinc is well placed to be a key beneficiary of Chinese economic development

Zinc is a mid-economic cycle commodity



Galvanizing intensity to peak after steel intensity peaks

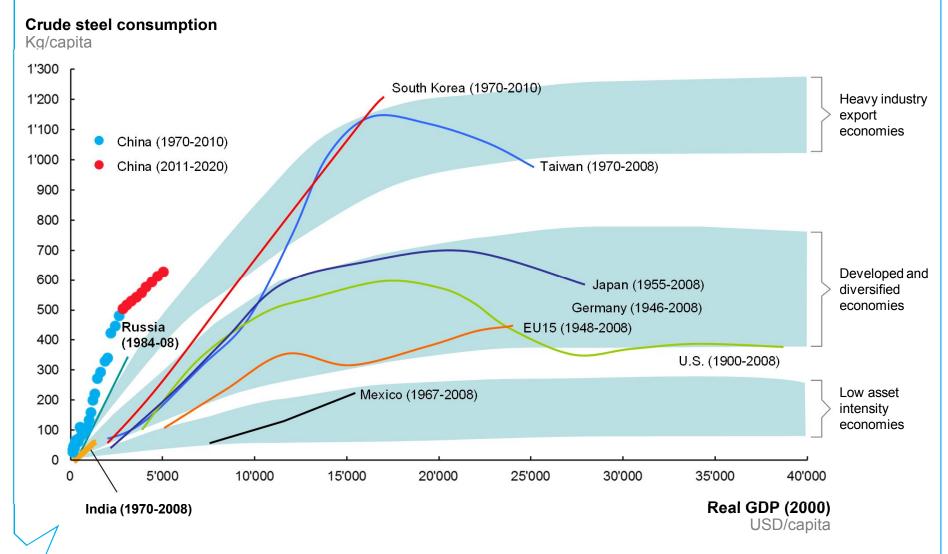


Using zinc consumption as a proxy for

galvanising demand we can see strong

potential increases in demand

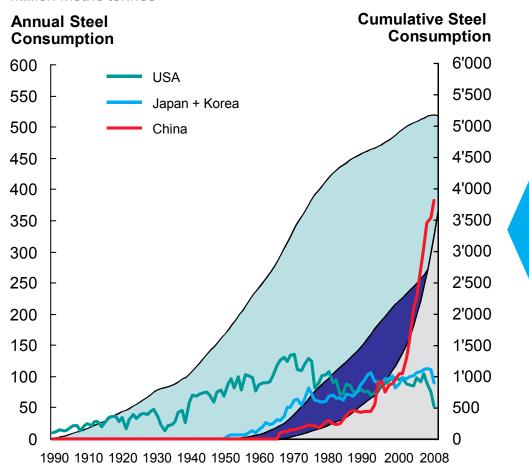
China is expected to reach a high level of steel consumption per capita faster than other countries but still has far to go



Cumulative steel consumption demonstrates that China has still a long way to go before it peaks



Million metric tonnes

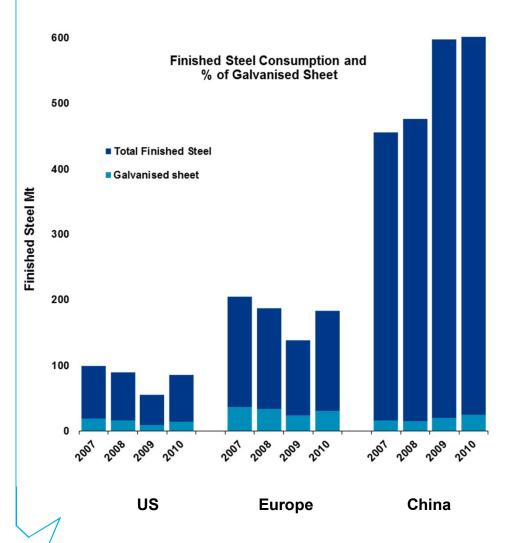


- USA
- Japan + Korea
- China

- China's annual demand is 4-5x US levels
- China has accumulated
 70% of US stock levels or
 ~15% on population
 adjusted basis
- Cumulative stock per capita: China 2.5t, US 16.8t, Korea/Japan 15.8t

SOURCE: McKinsey; IISI

Construction growth combined with increased galvanization percentages will continue to drive demand

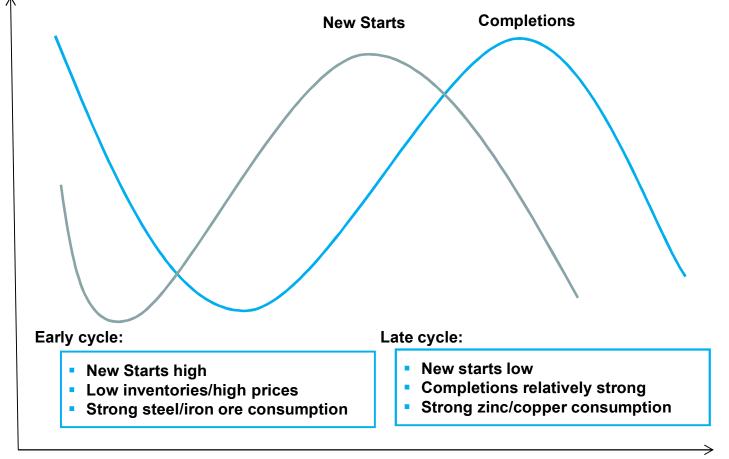


- Approximately 5% of China's steel consumption is in galvanised sheet form (18% in Europe & US)
- As China's urbanisation progresses:
 - Steel demand will continue to grow
 - Steel product mix will shift
 - Increase in galvanized flat products
 - Chinese galvanized steel shipments has so far increased by 13.2% in 2012

SOURCE: CRU, Brook Hunt, Nyrstar Estimates

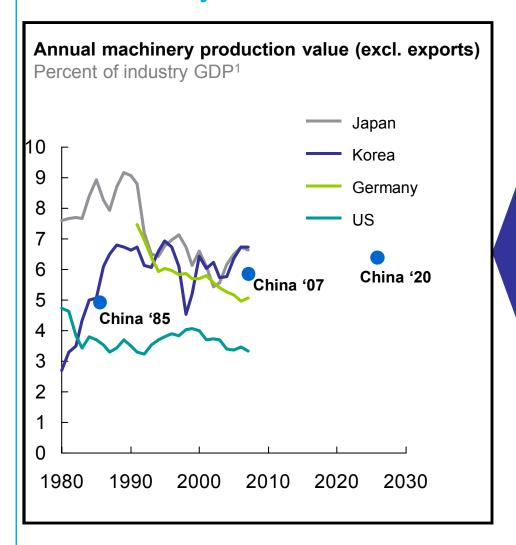
Zinc intensity set to accelerate at the completions stage of the China construction cycle





4Q2008 2011 2013/2014

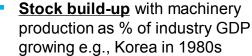
Growth in China's industrial economy will be a key driver in zinc growth from the machinery sector





Two phases visible:







Stock replacement after Industry GDP growth slows; machinery production at ~6-7% e.g., post 1990s for Japan/Korea



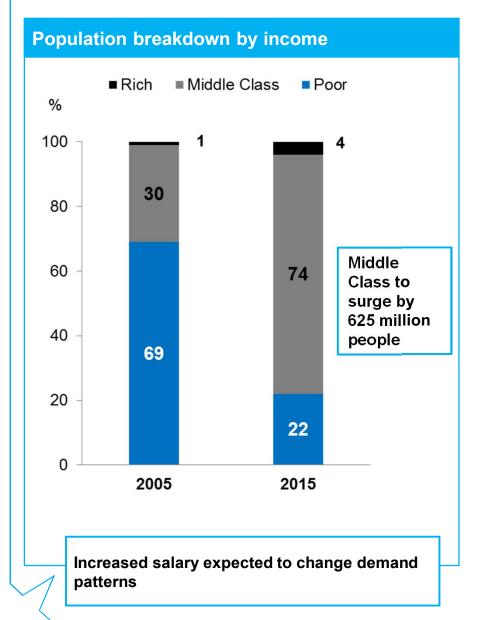
China's annual machinery production value will increase:

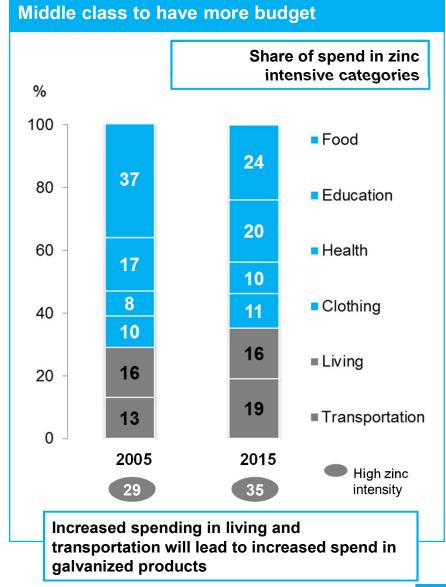
- Capital equipment build-up to support growing industry GDP
- Import substitution due to increasing localization
- Growing share of RoW capital equipment market

1 A proxy of machinery as % of FAI since FAI is at constant % of industry GDP (~80% for China)

SOURCE: Global Insights

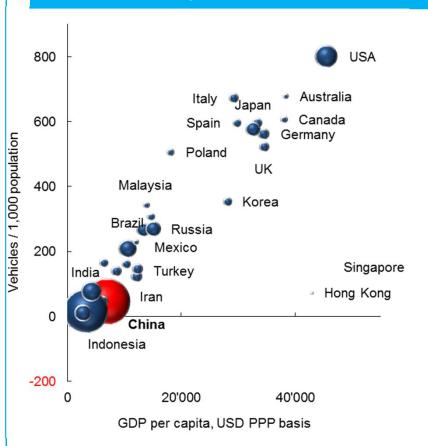
Rise of the middle class in China will increase zinc demand





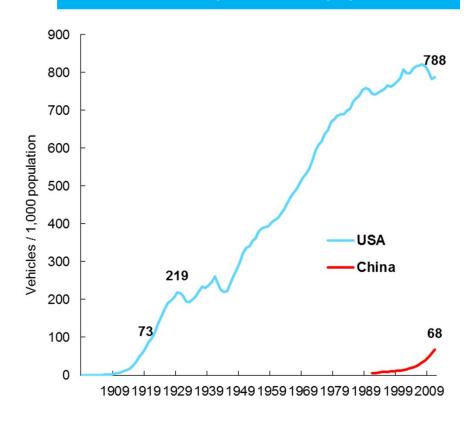
Vehicle ownership in China still in its infancy

Vehicle ownership relative to income



Increased income expected to increase car ownership

Vehicle ownership relative to population



China's level of vehicle ownership is like the United States in 1920

SOURCE: IRF, IMF, US Census Bureau, World Bank, Macquarie

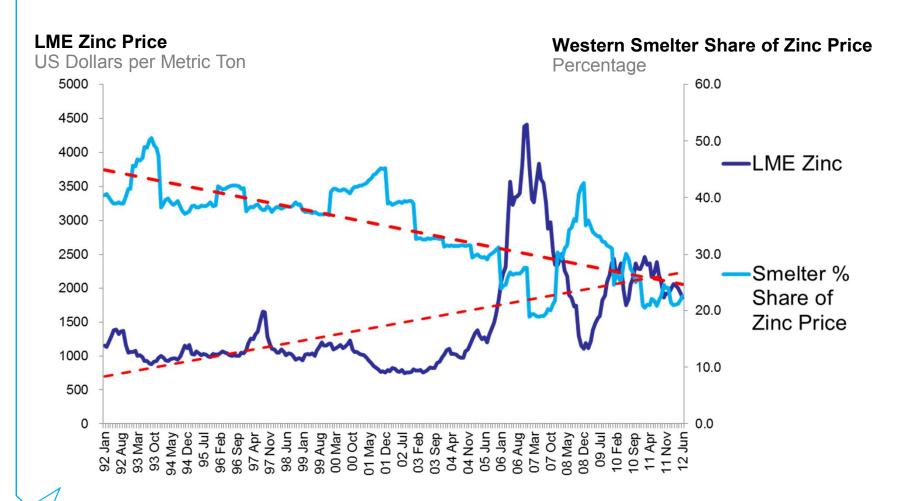
Vehicle ownership remains extremely low but also varied



- Only a handful of provinces are approaching high intensity levels for car ownership per capita
- The fact that ownership intensity is varied means that we see contradictory reports from the auto industry about market health
- As the industry matures, zinc utilisation per unit is likely to increase dramatically Domestic brand Chinese cars
 - Use ¼ the amount of zinc compared to Western brands
 - Are likely to increase zinc utilisation when they target export markets

SOURCE: China NBS, Wood Mackenzie

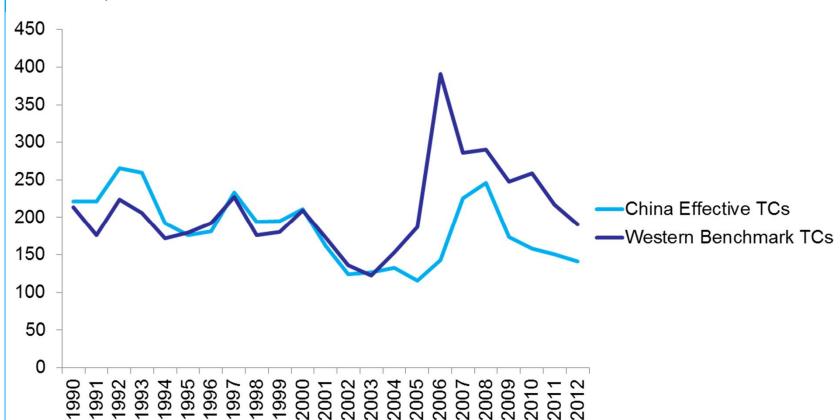
Profitability of zinc smelting has been squeezed during the commodity boom



Chinese smelters face worse terms than western smelters

Treatment Charge

US Dollars per DMT

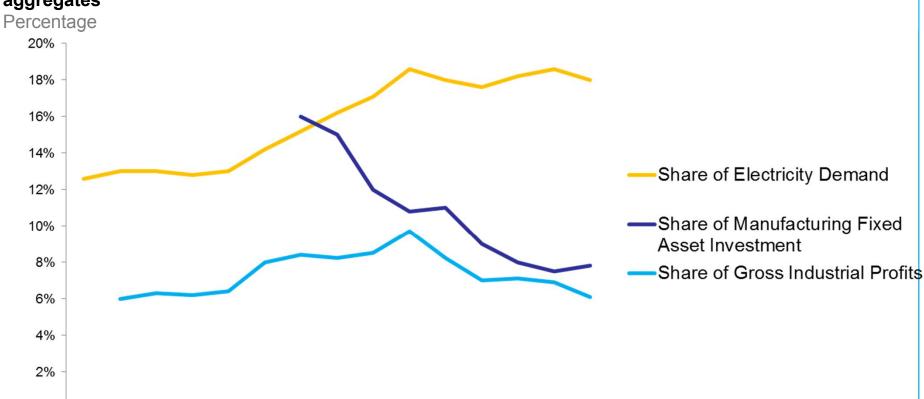


Treatment Charge Assumptions

Chinese domestic TCs converted into Western Style TCs, Assumption that 66% of Feed in Chinese smelters is domestic, 34% is import on spot terms.

Chinese smelting investment has declined in line with falling profits



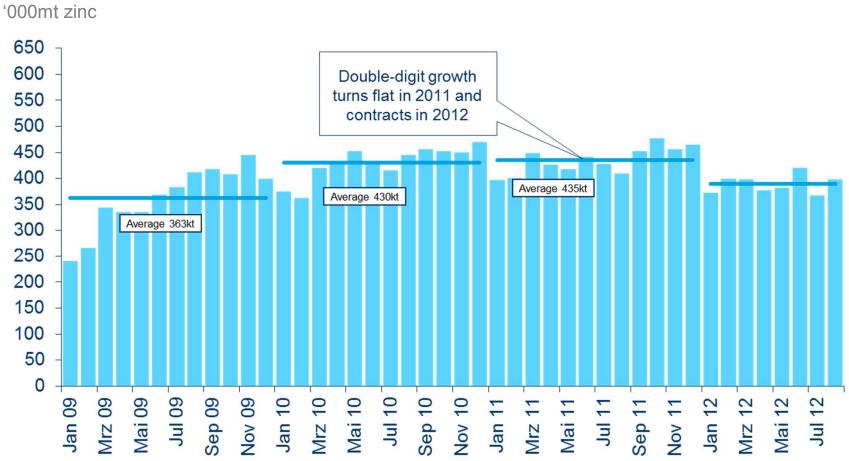


SOURCE: Bloomberg, Gavekal Research

1998 1999 2000 2001 2002 2003 2004 2005 2006 2007 2008 2009 2010 2011 2012

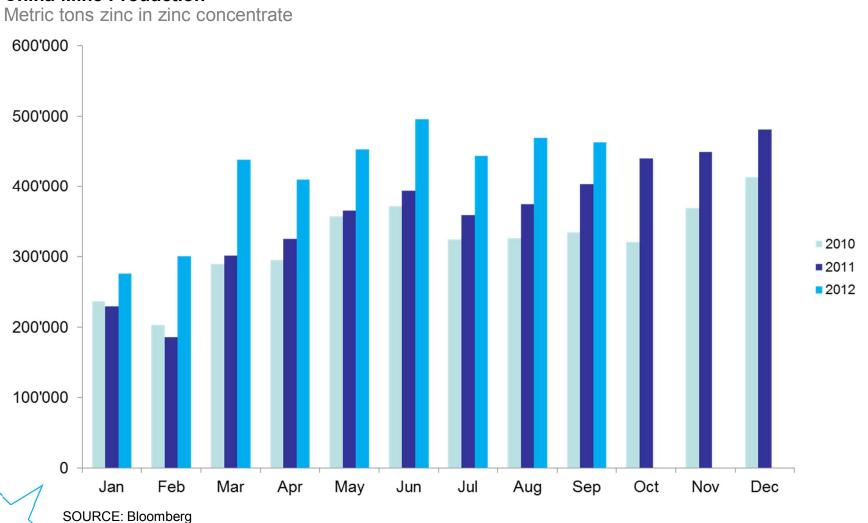
Few predicted that 2011 and 2012 would be years that the Chinese zinc smelter producers reacted to declining profits and curbed output

China Smelter Production



Few predicted that 2011 and 2012 would be years that the Chinese zinc mines would ramp up production

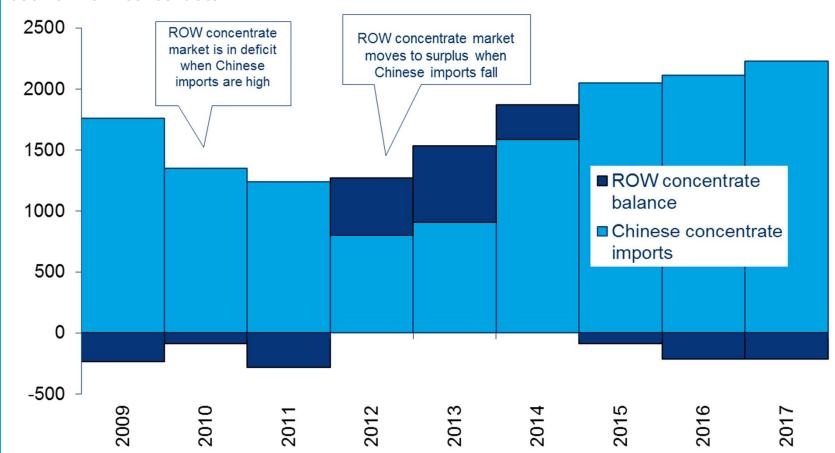
China Mine Production



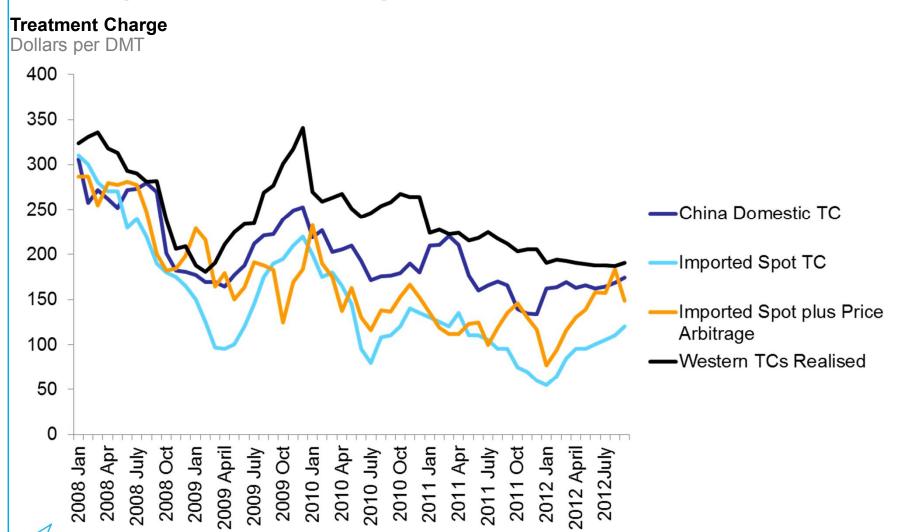
Less Chinese zinc smelter production and more mine production has meant a global surplus in concentrate

Global concentrate balance



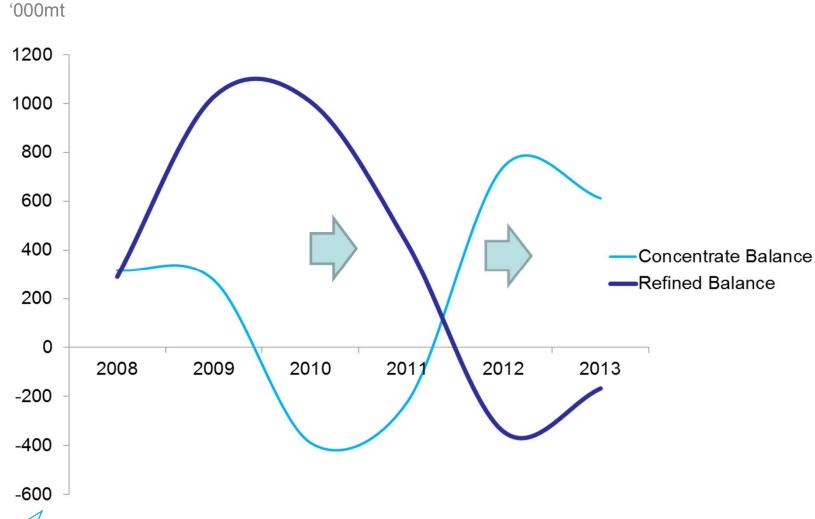


Treatment Charges in China and the ROW are starting to converge, even spot is coming close to the Western Benchmark

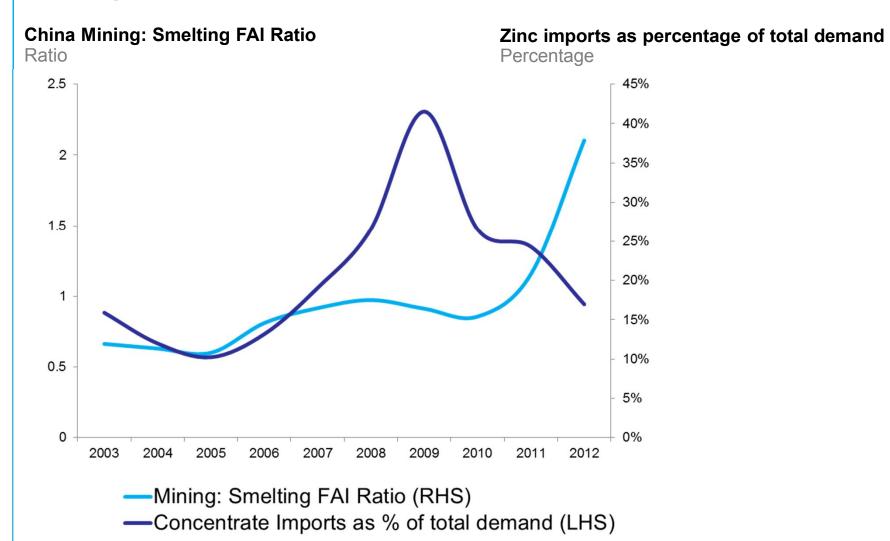


Global zinc market surplus has transferred from metal to concentrate

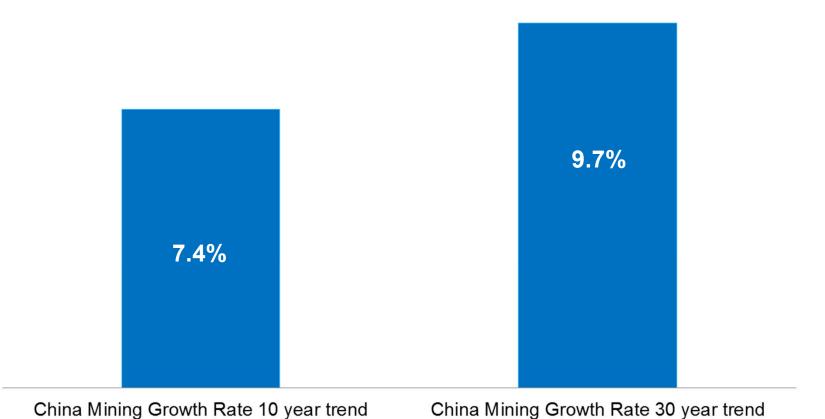




Chinese investment in mining continues to outstrip investment in smelting



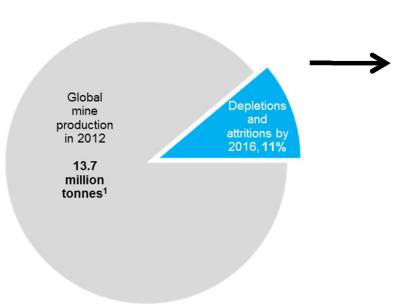
Also important to note that strong mining growth has been a feature of the Chinese market for the last 30 years



But there is still uncertainty where zinc will come from given the unusual scale of closures

Zinc mine depletions and attritions by the end of 2016

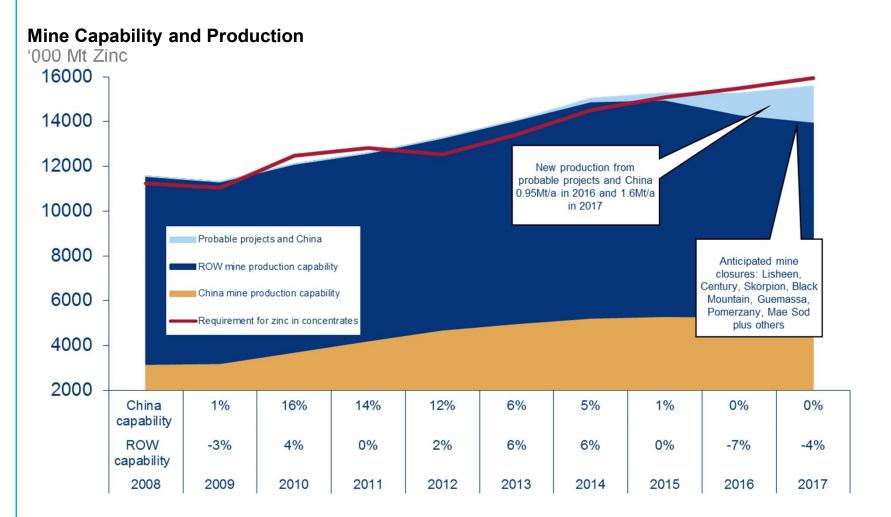
Zinc mine depletions (and total attritions) between 2012-2016



Mine (location)	Zinc production (kt) ²
Century (Australia)	500
Brunswick (Canada)	200
Lisheen (Ireland)	167
Skorpion (Namibia)	162
Perseverance (Canada)	128
Pomorzany-Olkusz (Poland)	65
Mae Sod (Thailand)	45
Bairendaba Yindu (China)	45
Other depletions and attritions	402
Total depletions and attritions	1,714 (11%)

SOURCE: Wood Mackenzie, Nyrstar Estimates

The tightness will probably re-emerge towards the middle of the decade



Conclusions

- The Commodity Supercycle is far from over and we are entering the time where zinc should see a shift change in intensity
- The Chinese zinc industry is starting to adjust to lower profits in smelting by moving both downstream and upstream
- As the balance has changed from metal being produced at a surplus to concentrate being in surplus we should see an increase in Treatment Charges both in spot and benchmark terms
- Looking ahead to the middle of the decade, uncertainty on future supply and strong consumption profile will lead to supply tightness which will be exacerbated if the current low price environment discourages projects