



# Iron Ore: Industry Outlook

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# Outlook summary

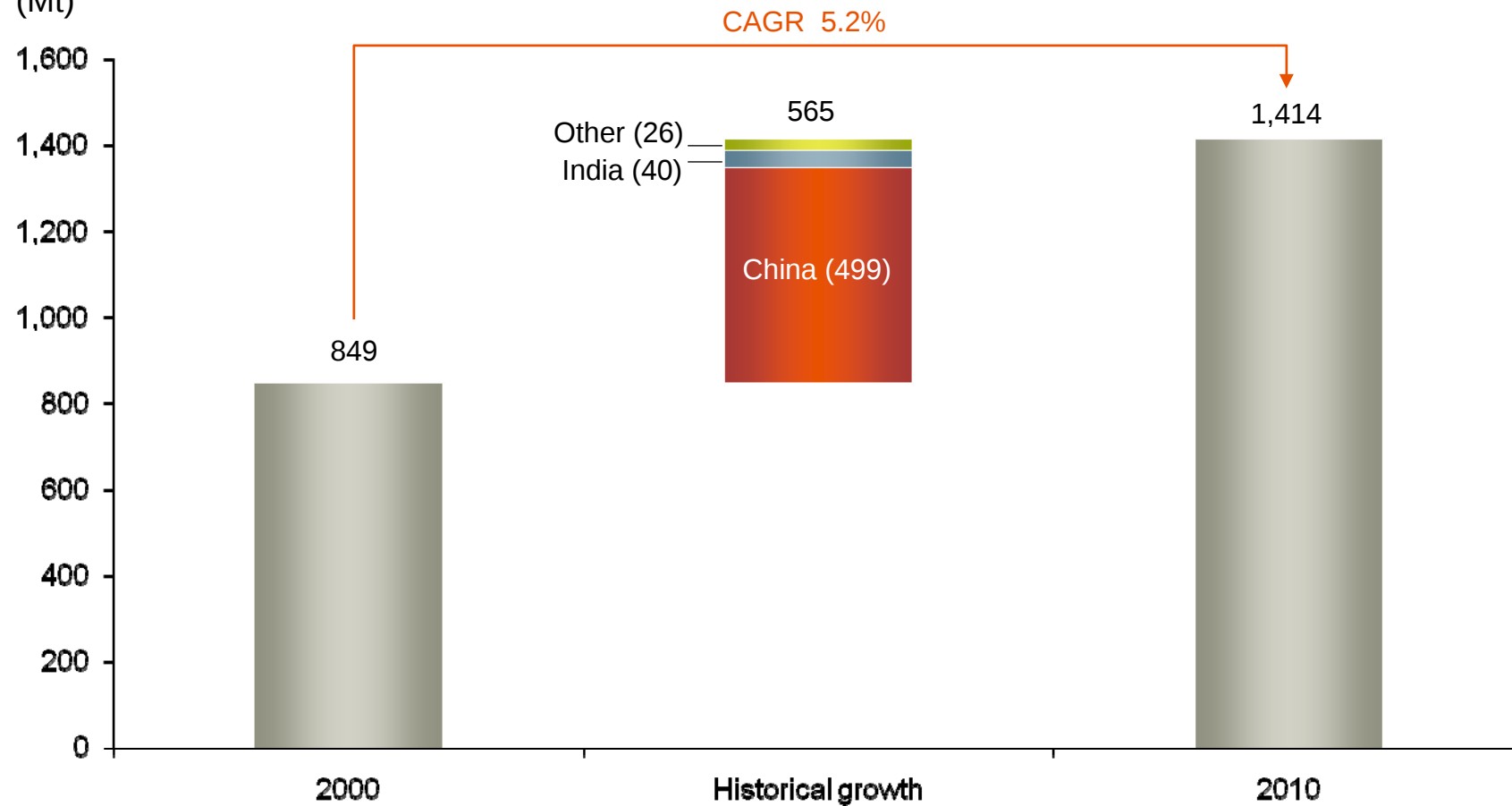


- Growth in **China and India** to sustain **strong Iron Ore demand**
- A significant **ramp up of supply** is expected in next 5-10 years
- **Industry challenges** will put pressure on **supply delivery**
- **Delivered supply** will **restore market balance**
- Competition between producers will focus on **conventional factors** such as **product quality, reliability and cost position**

# China accounted for 88% of growth in global steel production in the last decade

## Historical global crude steel production

(Mt)



Source: BHP Billiton analysis.

# China's development underpinned by urbanisation and industrialisation

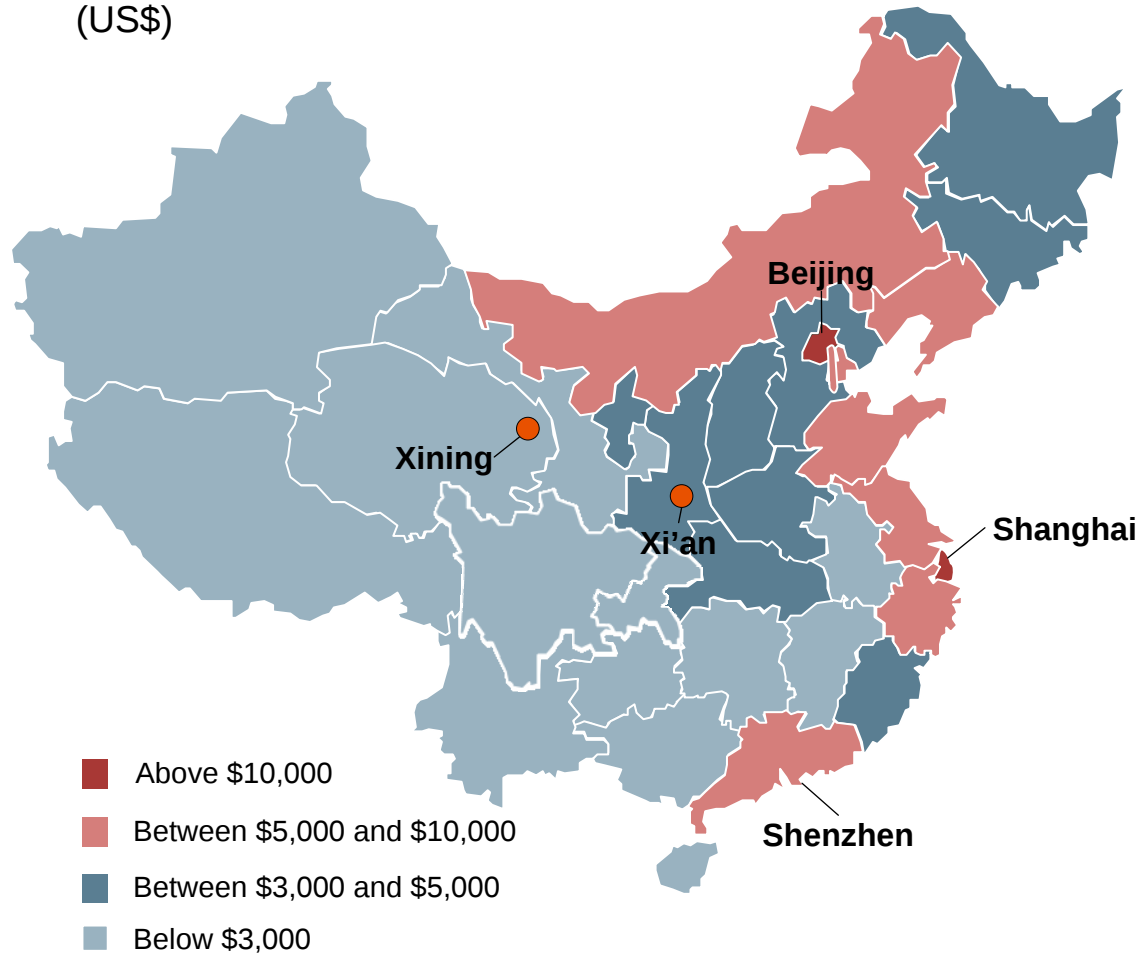


Photos Source: BHP Billiton.



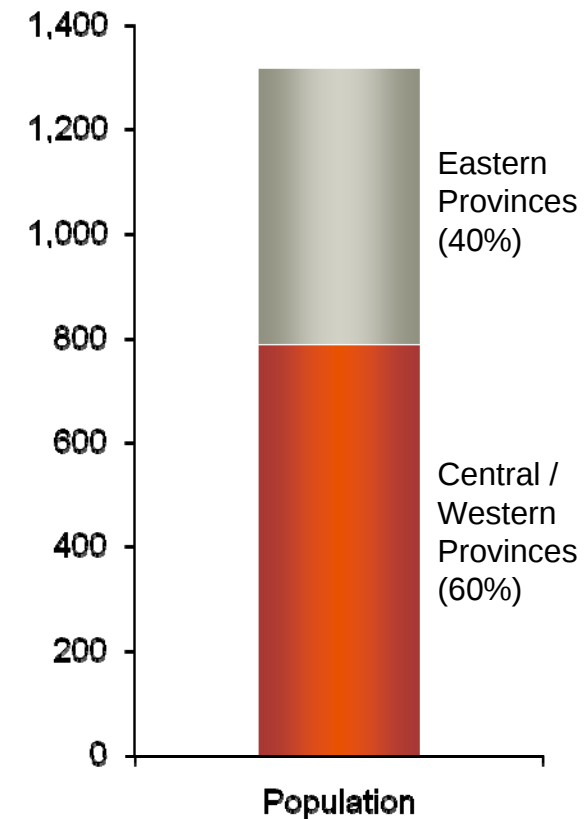
# Chinese Central and Western provinces are still in the early stage of development

China GDP per capita by province (2010 nominal)  
(US\$)



Source: Global Insight, BHP Billiton analysis.

China population by region 2010  
(Million)



# China's economic transformation and expanding urban footprint spreading West

Xining in Qinghai Province



Xi'an in Shaanxi Province



**Avg. Central and Western Province  
GDP per capita ~US\$3,000**

Shanghai



Beijing

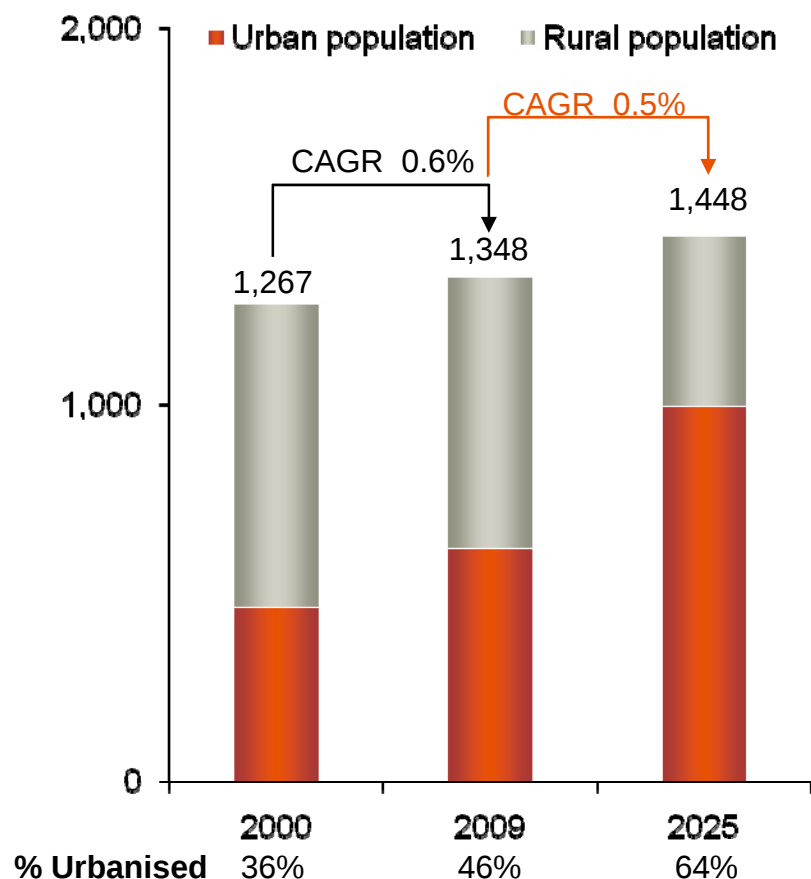


**Avg. Eastern Province  
GDP per capita ~US\$6,500**

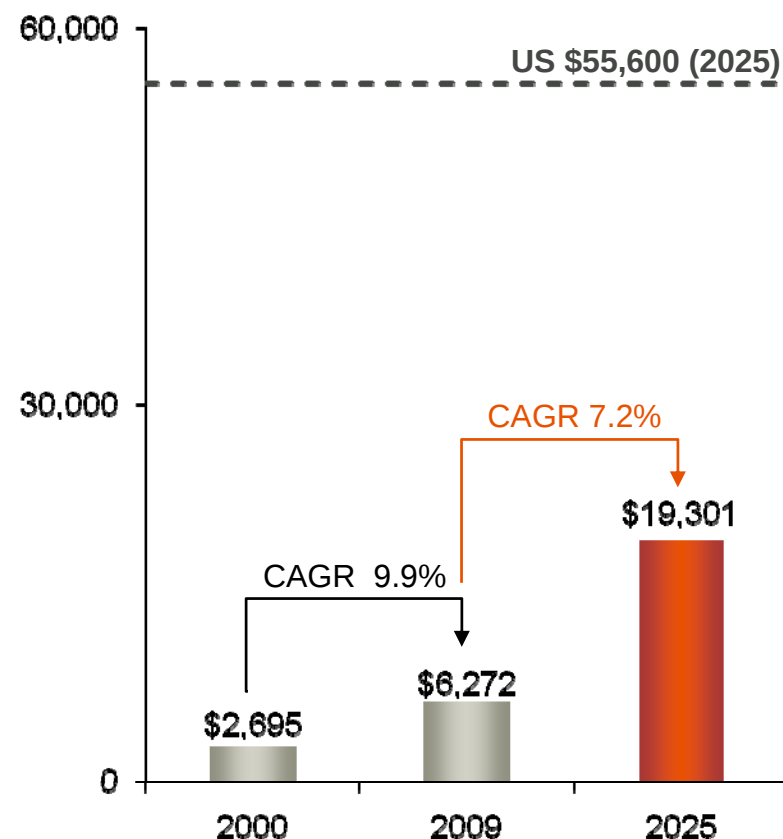
Note: GDP per capita (US\$ 2010 nominal) .  
Source: Global Insight, BHP Billiton analysis. Photos Source: BHP Billiton.

# China's urbanisation and industrialisation trend expected to continue in longer term

China population breakdown in 2000-25  
(Million)



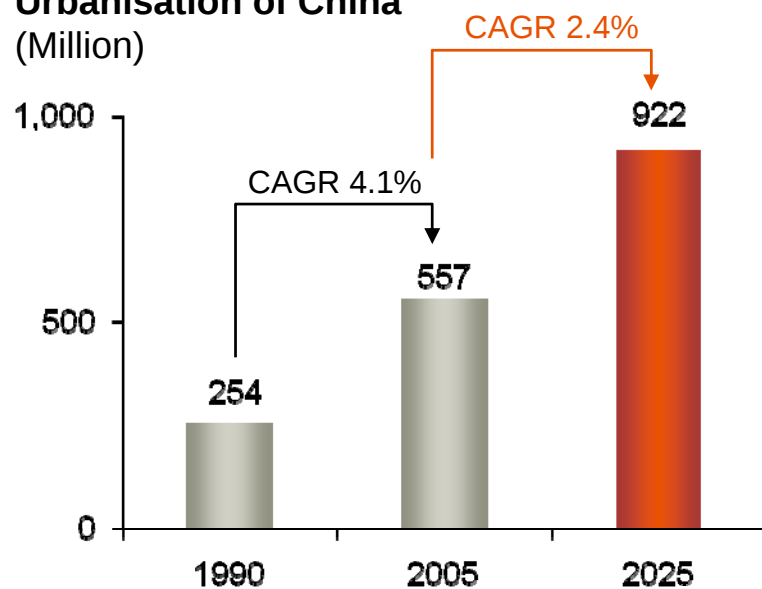
China's GDP per capita 2000-2025  
(USD/ Capita, Real 2005 PPP)



Source: McKinsey 2011, Global Insight, BHP Billiton analysis.

# Development of India will also drive steel demand growth

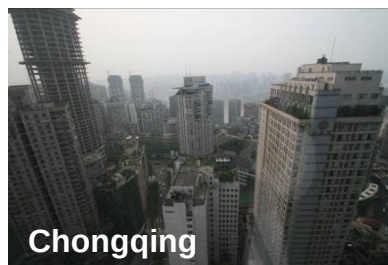
**Urbanisation of China**  
(Million)



|                |       |       |       |
|----------------|-------|-------|-------|
| Population (m) | 1,142 | 1,307 | 1,448 |
| % urbanised    | 22%   | 43%   | 64%   |

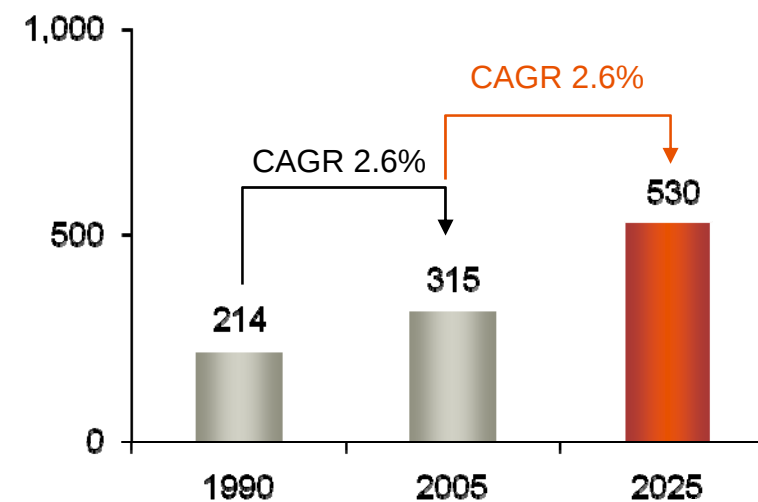


Shanghai



Chongqing

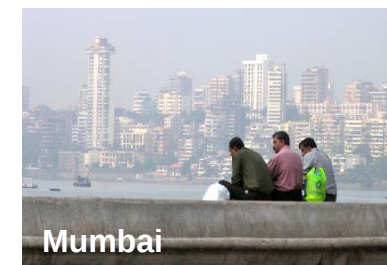
**Urbanisation of India**  
(Million)



|                |     |       |       |
|----------------|-----|-------|-------|
| Population (m) | 839 | 1,106 | 1,401 |
| % urbanised    | 25% | 29%   | 38%   |



Delhi

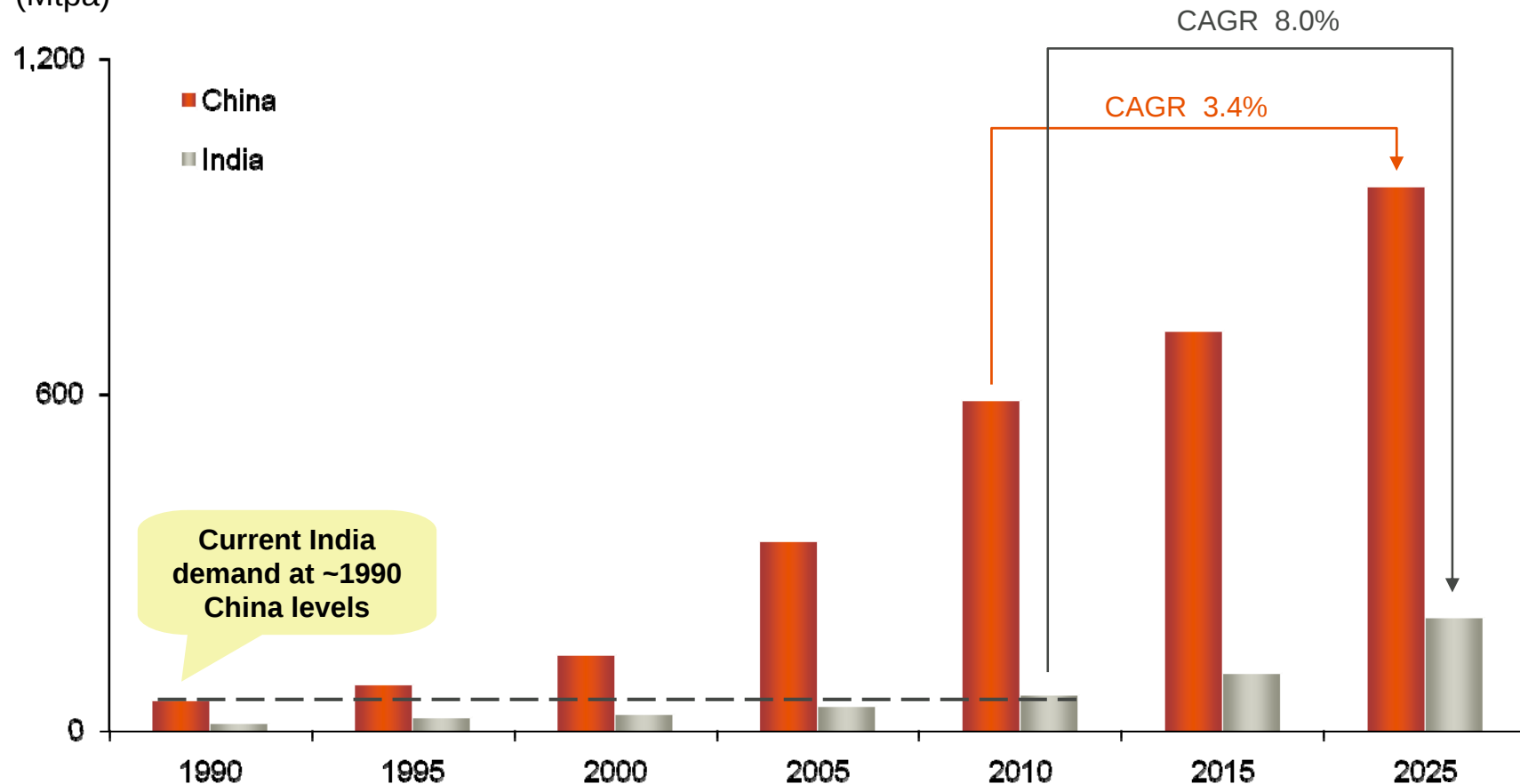


Mumbai

Source: McKinsey 2011. Photos Source: BHP Billiton.

# India will grow at faster rates than China in the next 15 years, but from a lower base

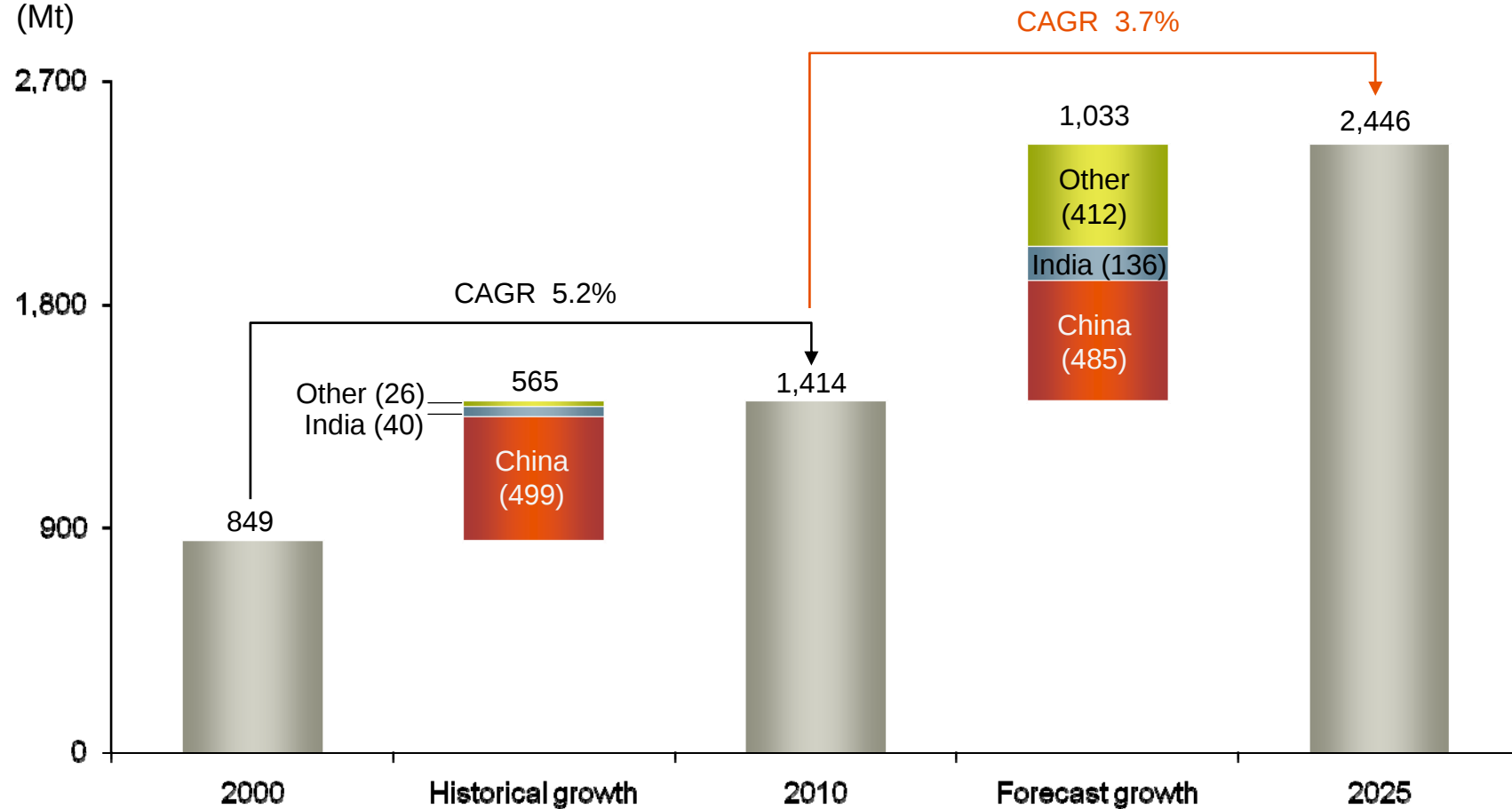
Projected India and China finished steel demand growth  
(Mtpa)



Source: BHP Billiton analysis.

# Asia will continue to be a substantial driver of steel production growth to 2025

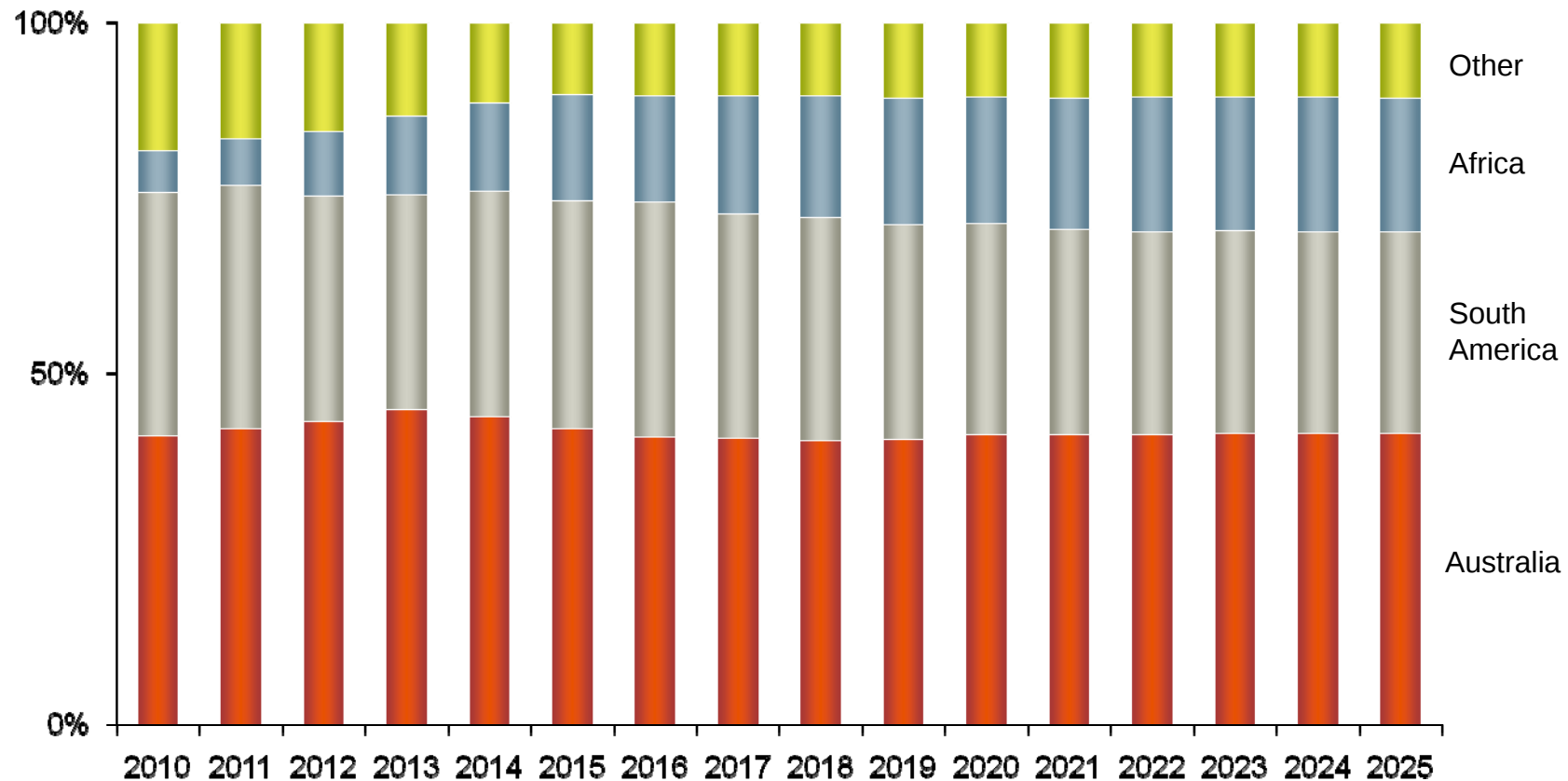
Global crude steel production  
(Mt)



Source: BHP Billiton analysis.

# New sources of supply expected to emerge

Total announced seaborne supply by region  
(%)

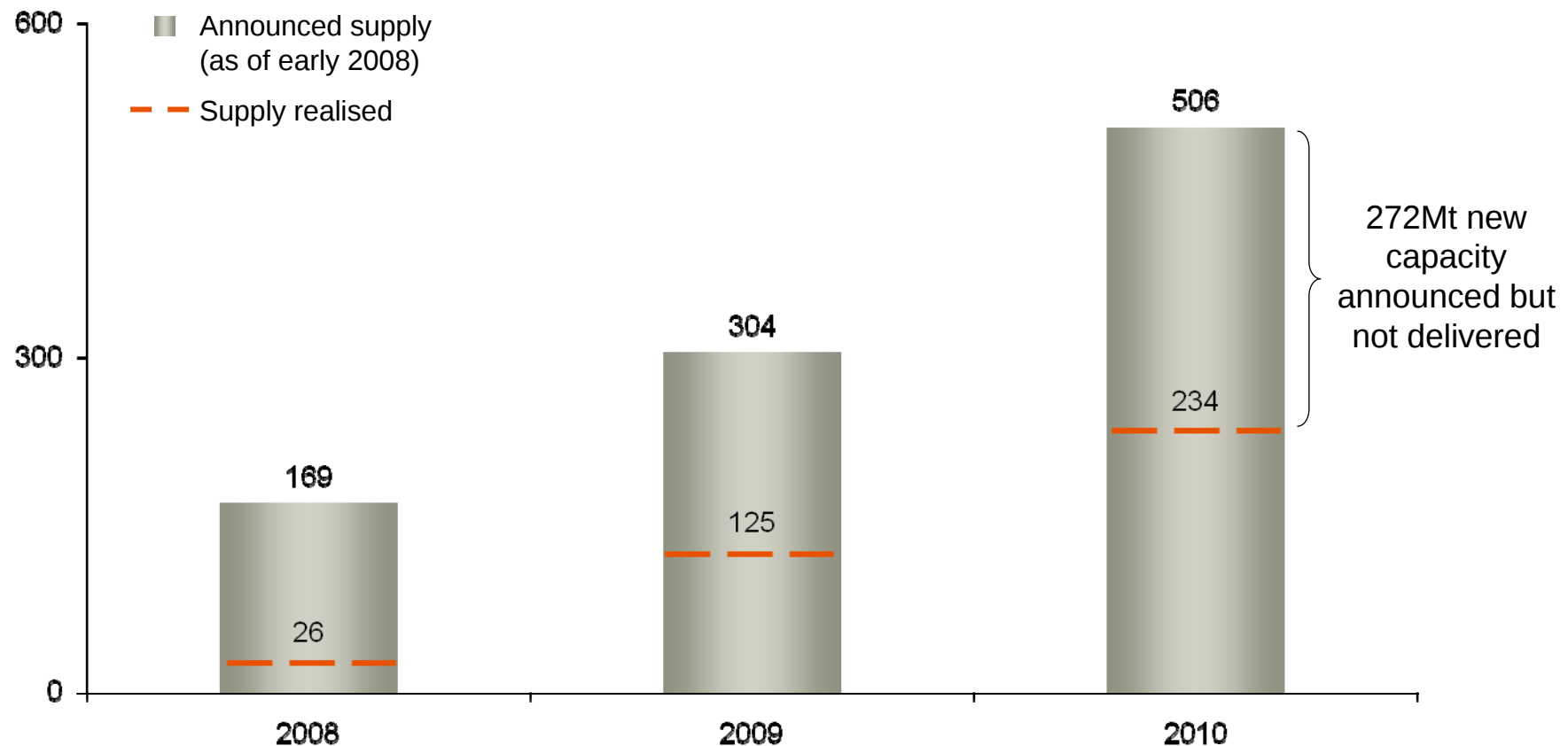


Note: Others includes India, Middle East, CIS, Europe-Other, Asia and New Zealand.

Source: BHP Billiton analysis.

# Historically delivered supply has not matched announcements

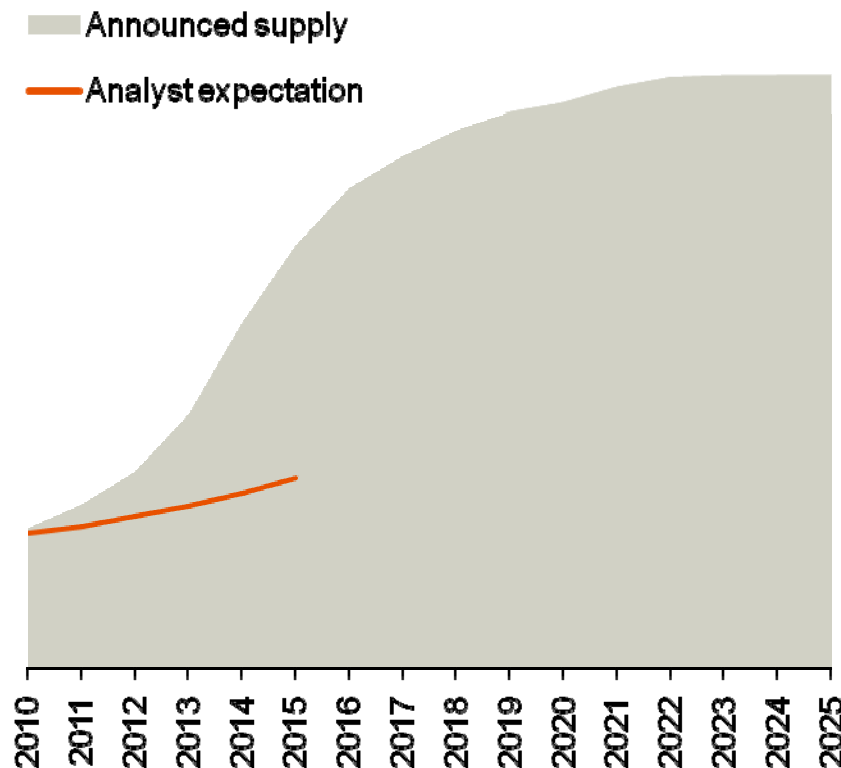
Total announced incremental seaborne supply in 2008 vs. actual incremental delivered (Mtpa)



Note: New Announced Supply based on BHP Billiton analysis as of early 2008.  
Source: BHP Billiton analysis.

# Looking forward, industry challenges will further impede delivery

## Total announced seaborne supply (Mtpa)



## Industry challenges

- Rising capital and operational costs
- Skilled labour availability
- Operational complexity for multiple tie-ins
- Civil Infrastructure strain
- Country political risks

Note: Announced Supply based on BHP Billiton analysis of public announcements.

Analyst expectation based on Goldman Sachs, Macquarie Research, UBS and Barclays Capital and Citigroup Global Markets (January – March 2011).

Source: BHP Billiton analysis.

# Conclusion



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