Resource challenges: navigating through volatility to create long-term value

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November 20, 2012

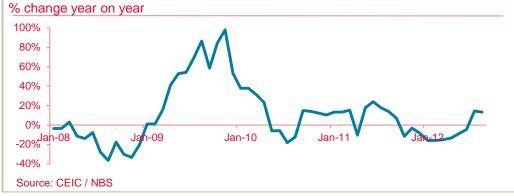
Research Institute of Economy, Trade and Industry (RIETI) BBL seminar

Discussion topics



Short term market uncertainty and volatility continue

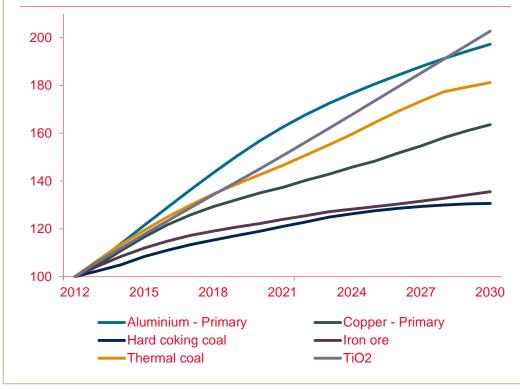




- Continued deleveraging and austerity in OECD
- Rate of growth in our markets in China is robust but is decelerating
- Expect a sequential pick-up in Q4 with signs of improvement in property market
- Impacts of stimulus extended out vs previous estimates: to be felt after Party Congress
- Market to remain volatile

The long term demand outlook remains attractive

Global commodity demand trajectories Index (2012 = 100)

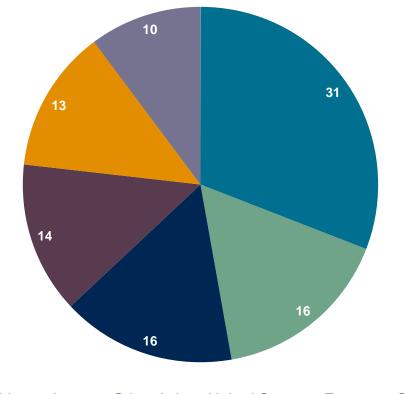


- ~2 billion additional people to urbanise by 2030
- Global steel consumption expected to grow by 2 per cent per annum
- China to remain key driver until mid-2020s
- China GDP per capita currently 19% of USA levels
- India and South East Asian economies more than offset flat and then falling consumption in China

RioTinto

Source: Rio Tinto analysis

Japan as a key market for Rio Tinto



■ China ■ Japan ■ Other Asia ■ United States ■ Europe ■ Other

- Second-largest market in terms of revenue
- \$10.6B in 2011, 16% of Rio Tinto global revenue
- Approximately half of global mining machinery and equipment procured from Japanese companies
- Japanese ships and shipping lines used for seaborne trade
- Japanese joint venture business partners in Rio Tinto operations around the world

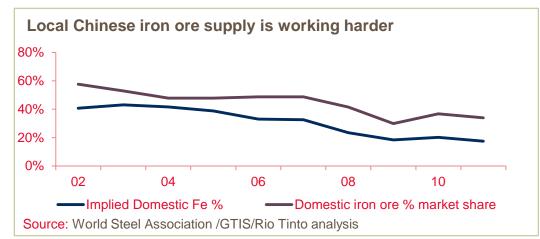
• Gross sales revenue in 2011 = \$65 billion

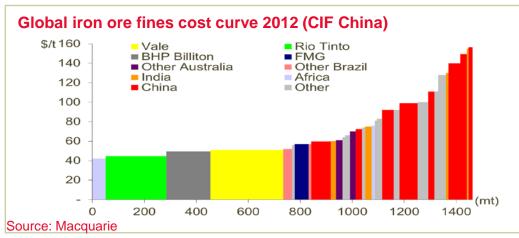


Japanese steel industry underwrote Pilbara development nearly five decades ago



The industry supply response is increasingly challenged



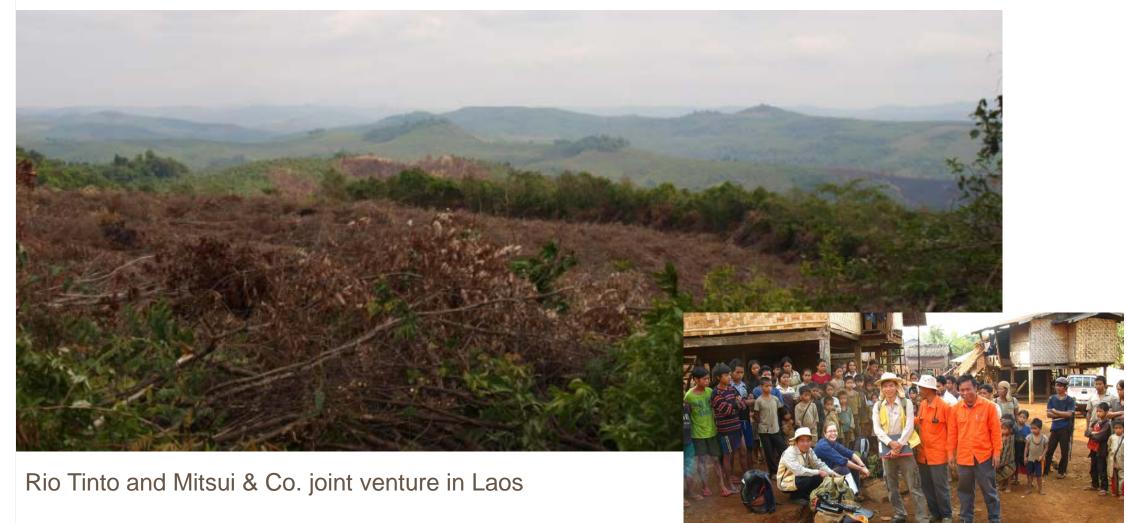


- Cost escalation and rising capital intensity will increase pressure on marginal project returns
- Scarcity of highly skilled labour, access to financing
- Rising threat of resource nationalism
- Recent high profile project deferrals



Rehabilitation forests, Richard's Bay, South Africa

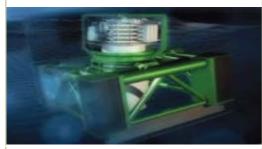




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Find



- Find future tier one ore bodies
- VK1 in initial flight trials
- Complex testing programme under way

Develop



- Develop future block cave mines safer, faster, better
- Tunnel boring system trials to commence at Northparkes during H2 2012

Mine



- Optimise resource productivity
- Expansion of driverless truck fleet to 150
- Operations Centre
- Smart drilling and blasting
 - blasting
- Autonomous trains (AutoHaul[™])

Recover



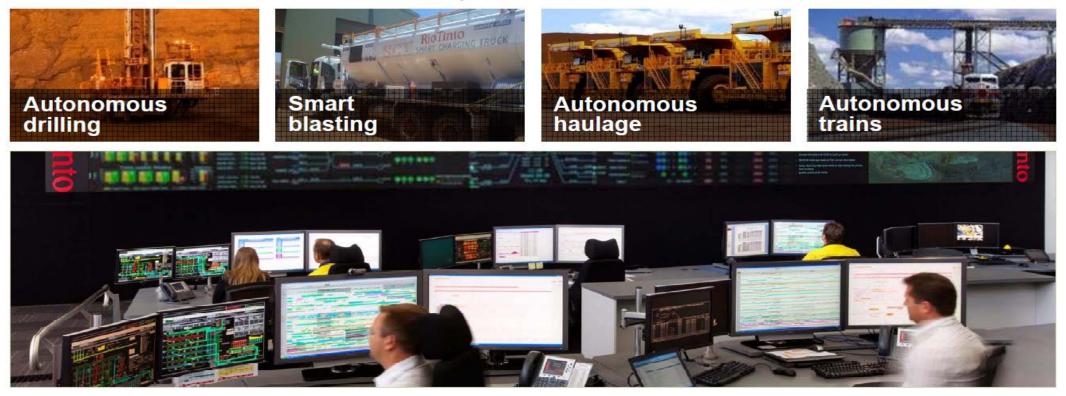
- Recover more from mineral deposits
- NuWave[™] copper sorting pilot plant being commissioned at KUC

Innovation networks created through long term strategic alliances Protection of Intellectual Property is key to sustaining competitive advantage



Mine of the Future[™] - surface operations in action

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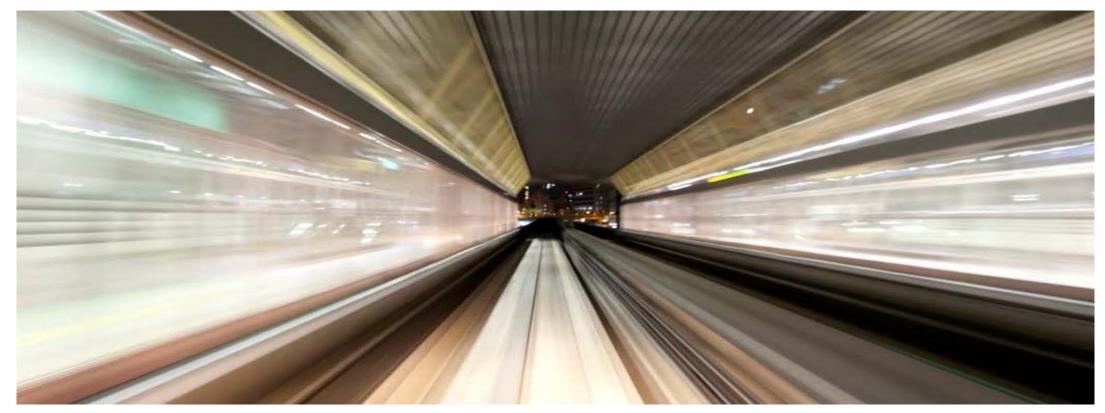


Remote Operations Centre, Perth





Mine of the Future[™]



Questions and Answers