

OSIsoft

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Typical Mining & Metals Company Vision

Commodity Production: Low Cost Producer

Sustainability: Eliminate / Minimize Risk

Value-Add: Differentiate in the Market



Mission Critical - the search for increasing value ...



Process Productivity

Making the process better

Small changes are worth a lot

It's about going to the next level, sustaining the improvements



Energy and Water Management

Monitoring and Managing Energy and Water

Fuel for all of the mobile equipment



Asset Performance and Reliability

Keep the machines running

Improve uptime

Reduce unplanned downtime

Condition-based maintenance



Environmental, Health and Safety Compliance

Governmental regulations

Accidents and incidents

Environmental monitoring

Compliance/Audit



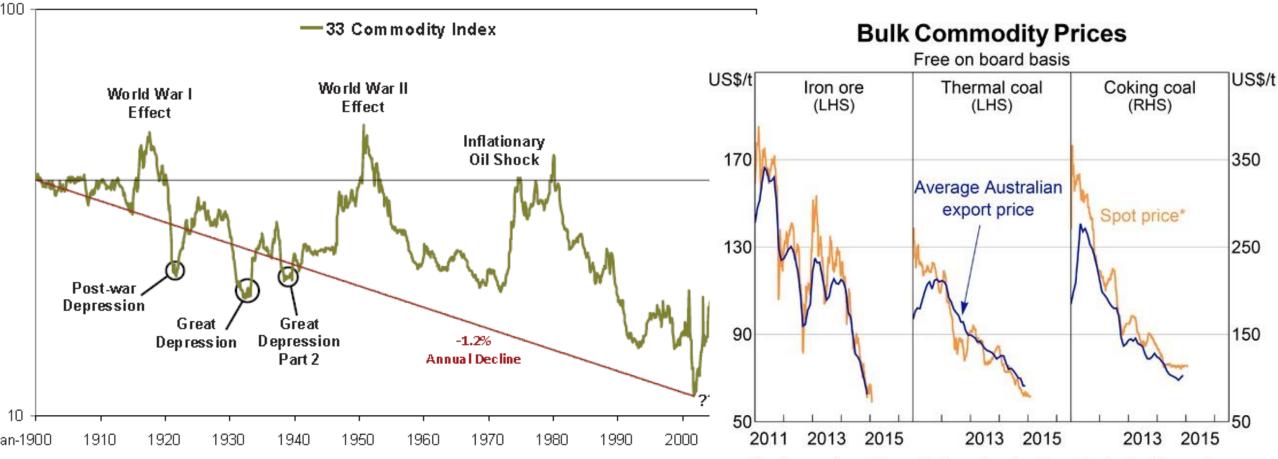
Quality Assurance

Certifications
Real-time monitoring
Genealogy (history)
Yield



The Commodity Cycle – stronger for longer, 2004 - 2011

Commodity Index: The Great Paradigm Shift



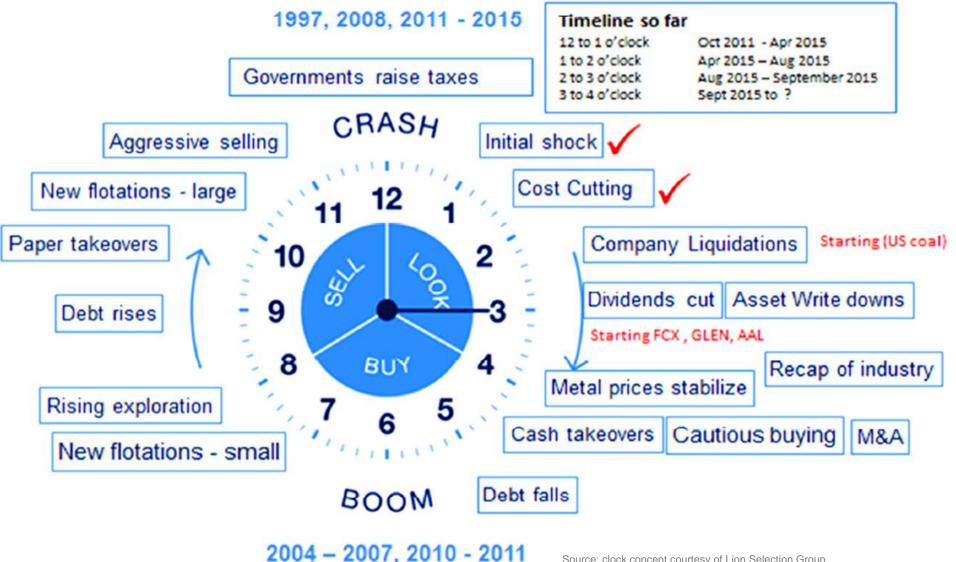
Note: The GMO commodity index is an index comprised of the following 33 commodities, equally weighted initiation: aluminum, coal, coconut oil, coffee, copper, corn, cotton, diammonium phosphate, flaxseed, goldore, jute, lard, lead, natural gas, nickel, oil, palladium, palm oil, pepper, platinum, plywood, rubber, silver, silver, soybeans, sugar, tin, tobacco, uranium, wheat, wool, zinc.

* Iron ore fines, Newcastle thermal coal and premium hard coking coal Sources: ABS; Bloomberg; IHS Energy Publishing; RBA

Source: GMO As of



Mining Clock – January 2016

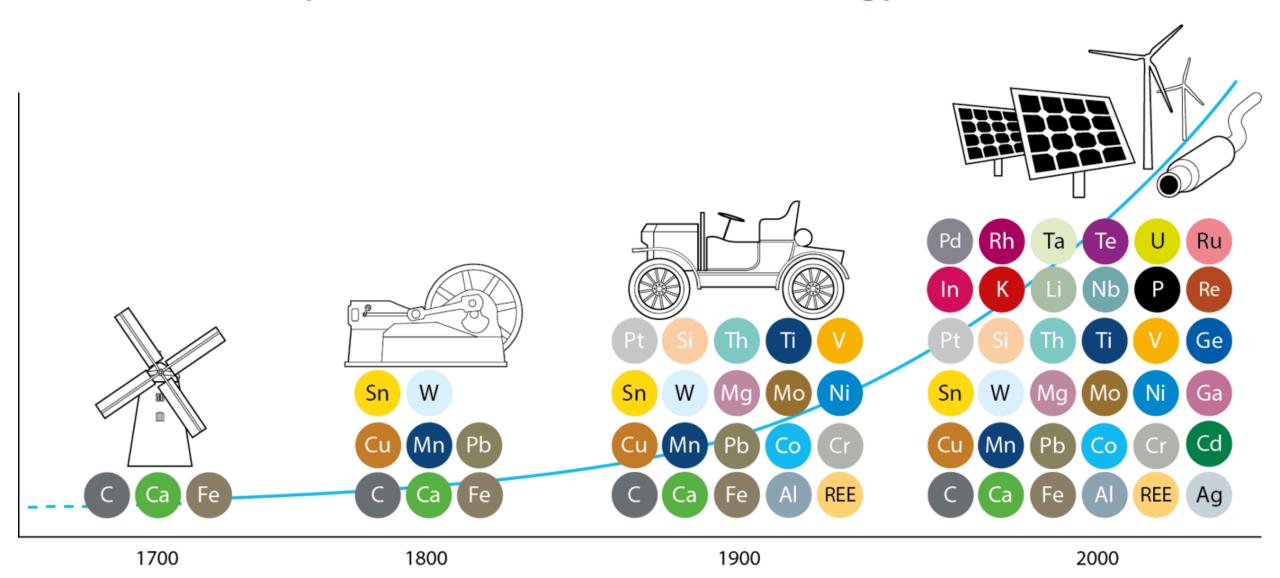


2004 - 2007, 2010 - 2011

Source: clock concept courtesy of Lion Selection Group

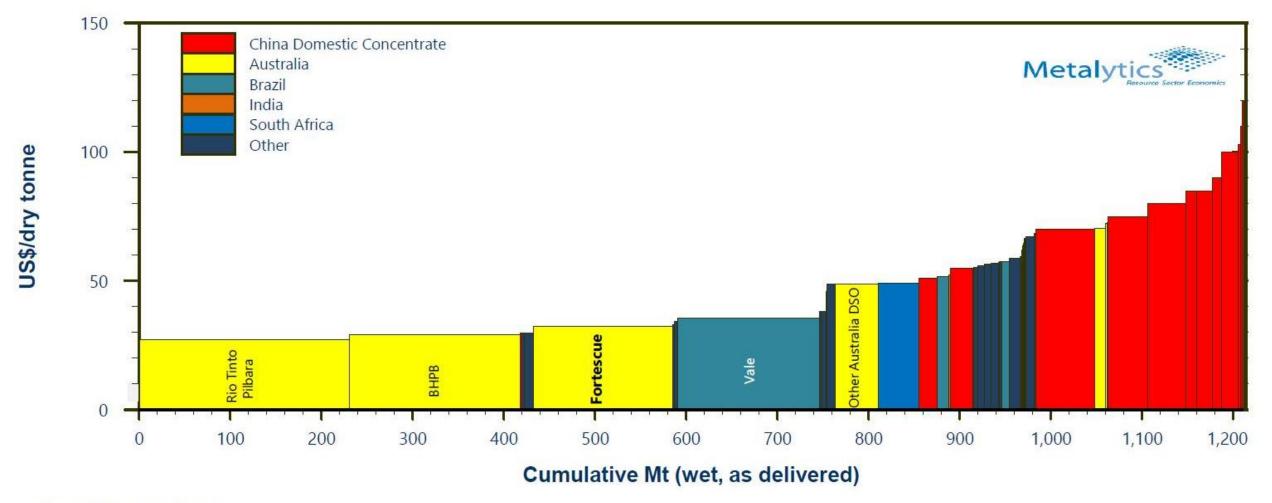


Commodity Demand Moves with Energy Platforms





Focus on competitive cost reduction Mining Industry Cost Curve - Fe



Source: Metalytics August 2015.

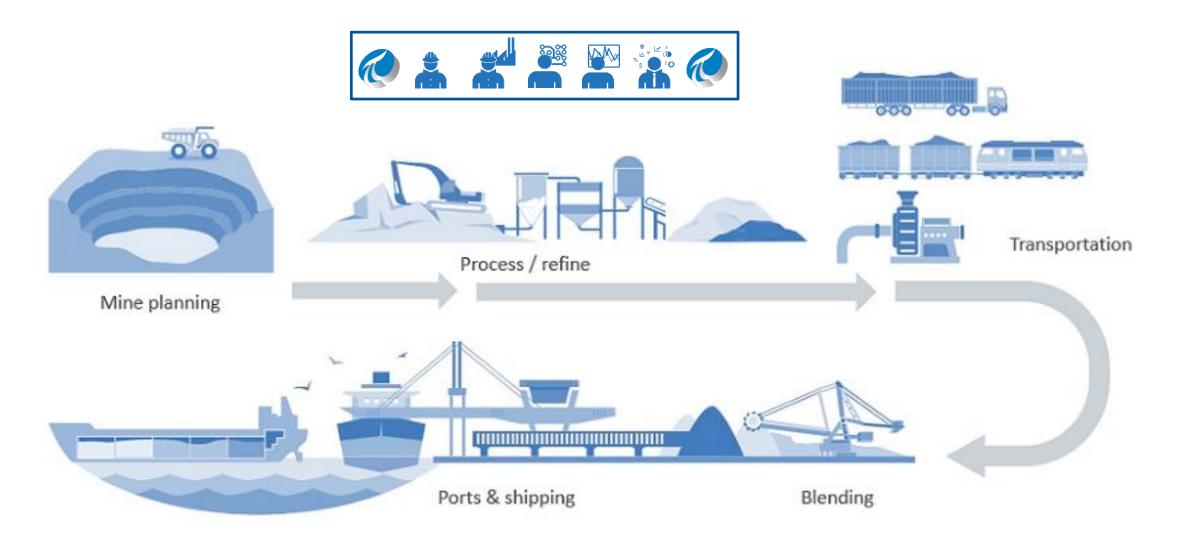


The PI System Infrastructure Approach SCADA 1 PLC₁ SCADA 2 PLC2 IPC 1 **Enhance** Deliver IPC 2 Instrument PAT 1 **ERP** Instrument PAT 2 **Asset Reliability** Controllers Learning Mgmt.

LIMS



Extending data capture – covering the entire value chain





Mobility solutions ...









Connected to your business critical issues?





감사합니다

谢谢

Merci

Danke

Gracias

Thank You

ありがとう

Спасибо

Obrigado

