





Presentation

Minesite Reconciliation

Thursday 05 December 2013 2.20pm

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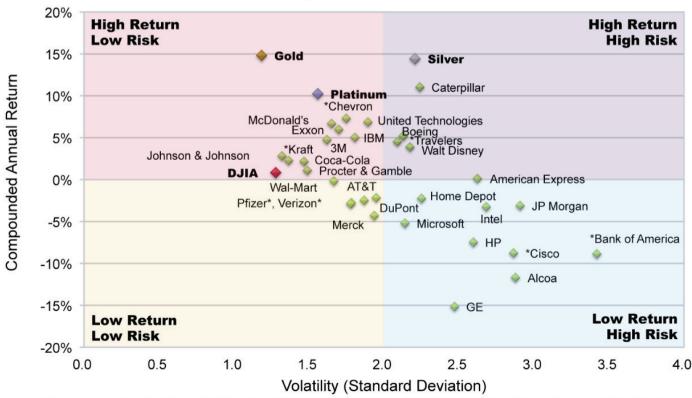
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Summary

- What is Reconciliation?
- What is Minesite Reconciliation?
- Purpose
- **Process**
- Stakeholders
- **Analysis**

January 2000 - June 2012



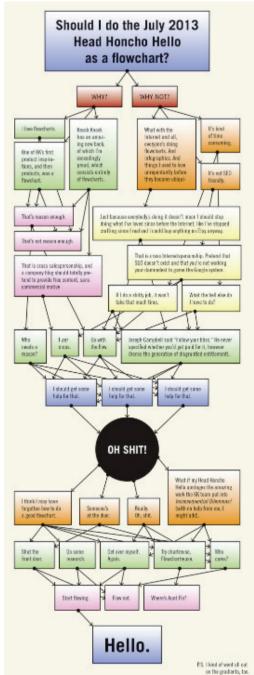
^{*} Not components of the Dow in 2000; replaced Honeywell, Citigroup, Kodak, GM, International Paper Company, Philip Morris





Summary (cont)

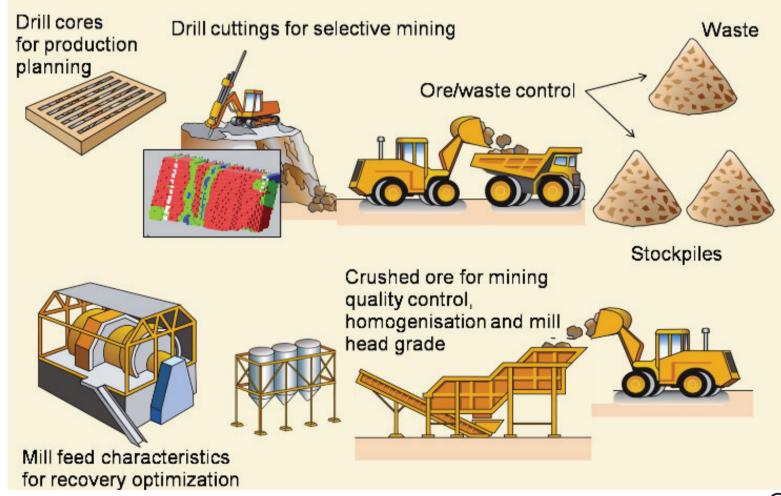
- Limitations
- ➤ What else?
- Compliance
- > Information Management
- Case Studies





Introduction

> Mhhs





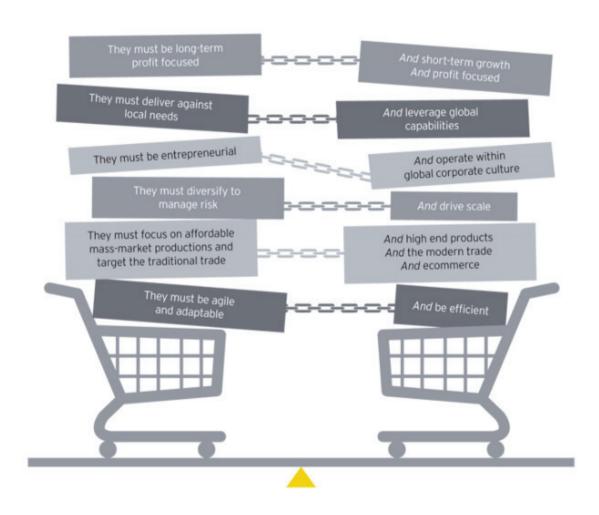
Purpose

- 'What is a noble goal?
- It means listening when conversing, showing kindness and compassion, being generous and giving. It also includes caring for our community and environment,... It is, in fact, the ultimate expression of integrity a deep alignment between words and deeds.'
- Irene Ong



Consult Mine What is Reconciliation?

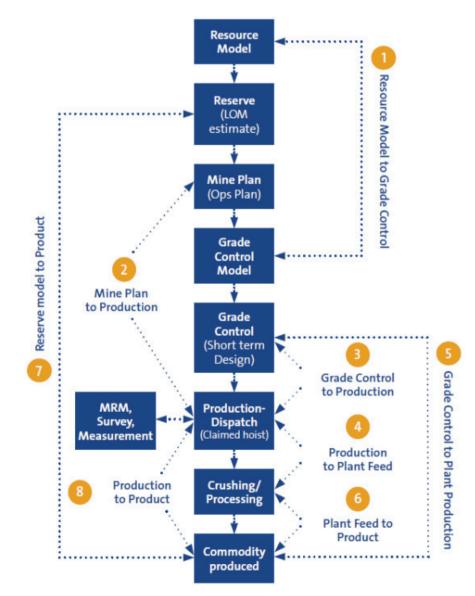
- > Accounting
- > Banking
- > Human rights
- > Mining
- > Mhhs
- > Hows
- > What?



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What is Minesite Reconciliation?

- > Involve stakeholders
- Understand criteria
- Value what matters (also known as the 'monetisation principle'
- Only include what is material
- > Do not over-claim
- Be transparent
- Verify the result

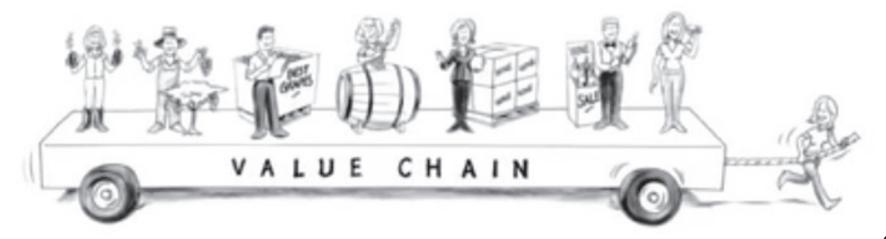




Purpose



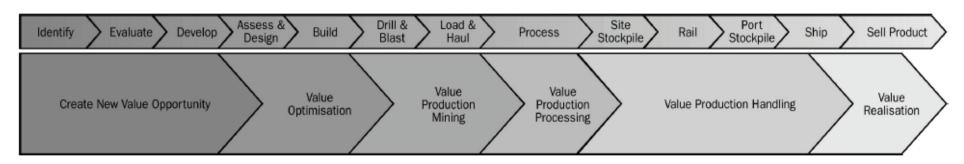
> Supply chain vs value chain





Process

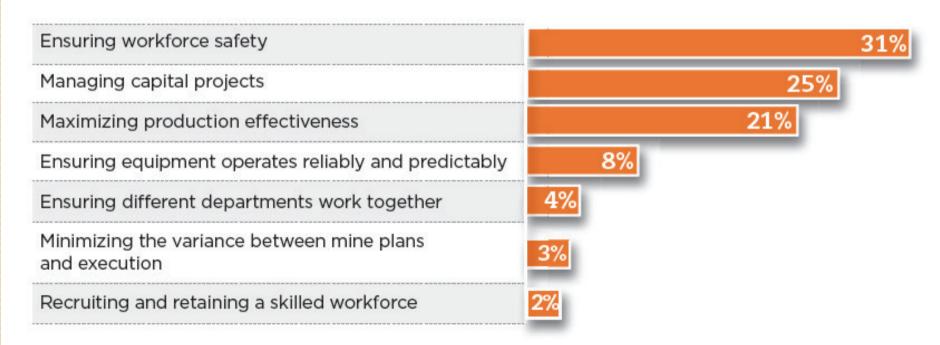
- Defining the boundaries
- Identification and selection of key stakeholders
- Developing a system for reconciliation
- What goes in (identifying inputs)
- What comes out (identifying results)
- Valuation
- Calculation and definitions
- Verification
- Narrative





Stakeholders

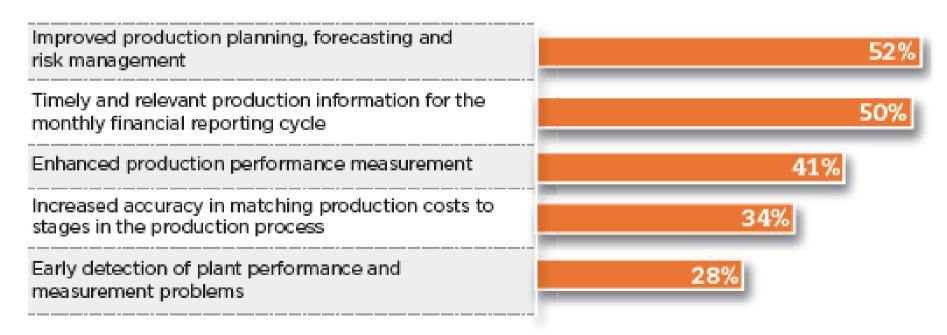
- Who are the stakeholders?
- What are their requirements





Stakeholders

- Business risk
- Business management
- Benefits of metal accounting vs financial accounting





Analysis

- Mineral balance
- Metal balance
- Planned vs actual



http://mysocialface.com/178/, retrieved 02 December 2013



What Else?

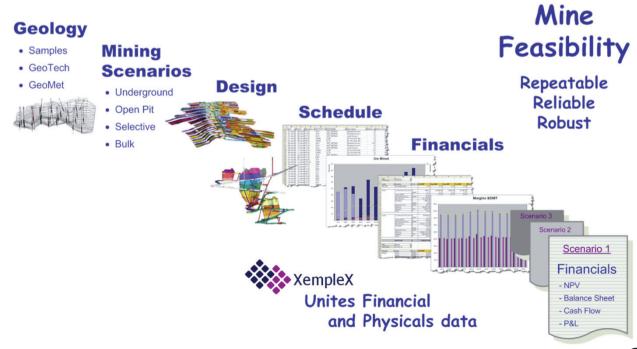
- > Safety
- Social License to Operate
- > Environment
- > Carbon
- Regulatory
- Community engagement





Limitations

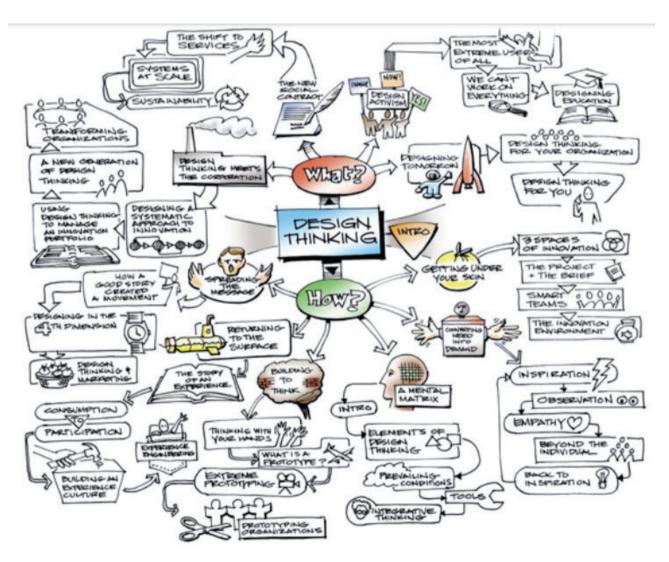
- Inconsistent procedures
- Insufficient training
- Management not supporting process
- Not effectively monitoring
- > Bias





Benefits

- > Transparency
- Corporate governance
- Accuracy
- > AMIRA P754
- > JORC 2012



http://www.linkedin.com/today/post/article/20121121191930-10842349-start-designing-your-life, retrieved 02 December 2013



Compliance

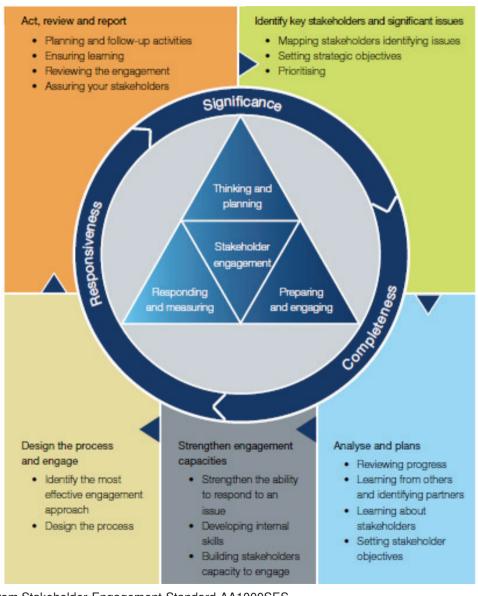
- Measurement
- > Methods
- > Aims
- Monetisation
- > Business Excellence
- Compliance



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Implementing appropriate tools for information management

- Risk Assessment
- Protocols
- Processes



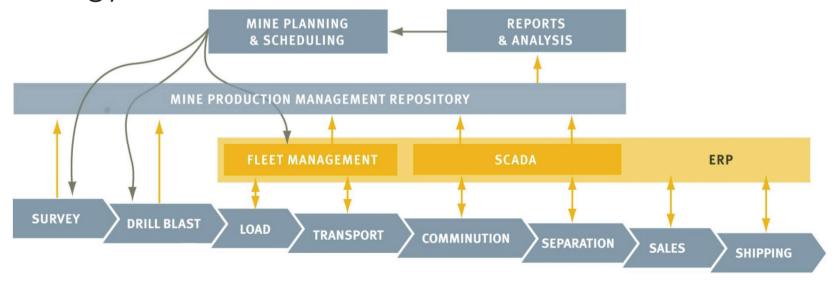
Adapted from Stakeholder Engagement Standard AA1000SES (Institute of Social and Ethical Accountability 2005), http://www.immi.gov.au/about/stakeholder-engagement/ pdf/stakeholder-engagement-practitioner-handbook.pdf, retrieved 03 December 2012



Case Studies-Document and Process Management

- Mining operations
- Evaluation/Analysis
- Design/Construction/Mine Planning
- Geology

- Ore Control
- > Transport
- > Exploration
- Depletion/Mine Closure

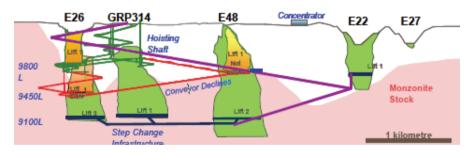


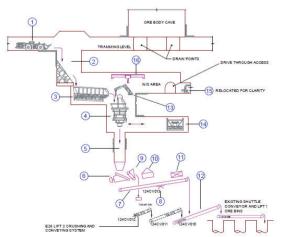


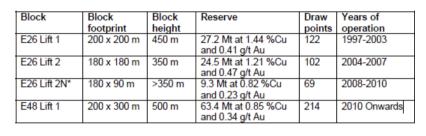
Case studies- Northparkes

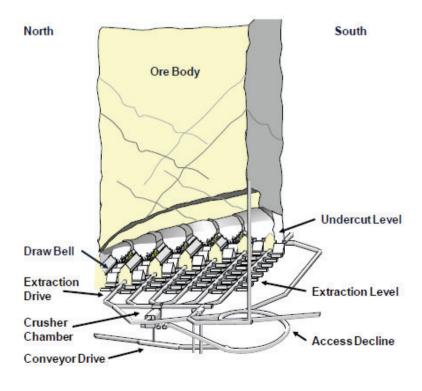
Reserves - 31 December 2010		
Tonnage (Mt)	Copper (%)	Gold (g/t)
75.51	0.82	0.32
Inferred Resources as of 31 December 2010		
Tonnage (Mt)	Copper (%)	Gold (g/t)
270.50	0.55	0.26
Total Resources as of 31 December 2010		
Tonnage (Mt)	Copper (%)	Gold (g/t)
287.83	0.57	0.26

- Mine planning PCBC
- Cave management
- Cave recovery







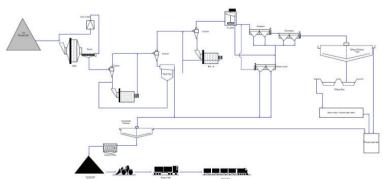




Case studies- Northparkes

- Open cut sampling
- > Resource modelling methods
- Risk management
- Metal accounting
- > Penalties









Case studies- KCGM

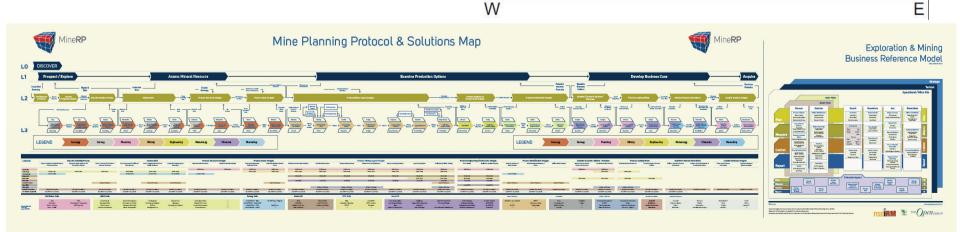
- Dispatch systems
- > Stockpiling
- > DOM vs ROM
- > Assumptions
- Rolling averages
- Feedback into mine planning

Fimiston lodes generally dip at 70 - 80° to the west. Ore is extracted from west to east with minimal dilution and ore loss.

Ore Block

Low

Dilution
5 -10 %







Thank you. Any Questions?

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