Codelco Digital Conference 2010

Using Technology to Impact Mining Management: Measuring Plant Business Performance

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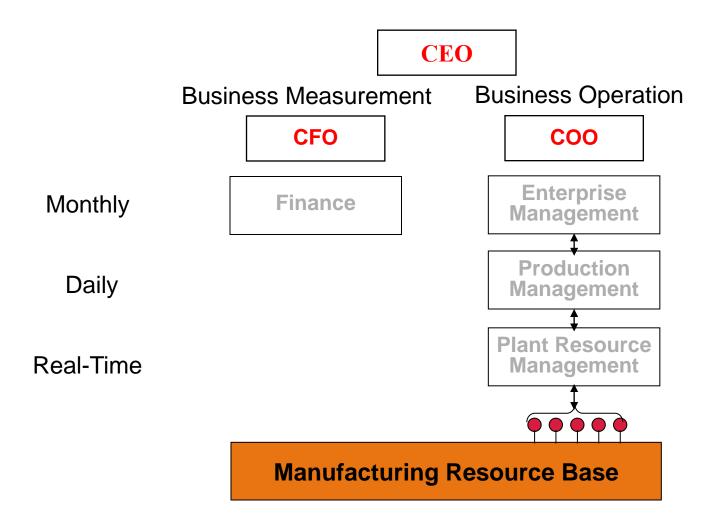
Agenda

- 1. Introduction
- 2. One of challenges
- 3. Strategic decomposition
- 4. Visualization
- 5. Case study

One of Challenges

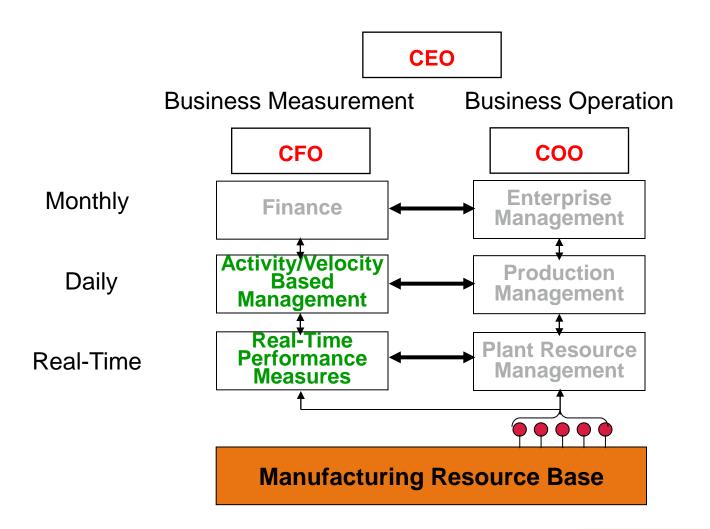
- Lack of Business Information to drive better decisions on the plant floor
 - Strategic
 - Real-time
 - Financial basis
 - Process unit basis
 - Integration with business systems

Financial Perspective



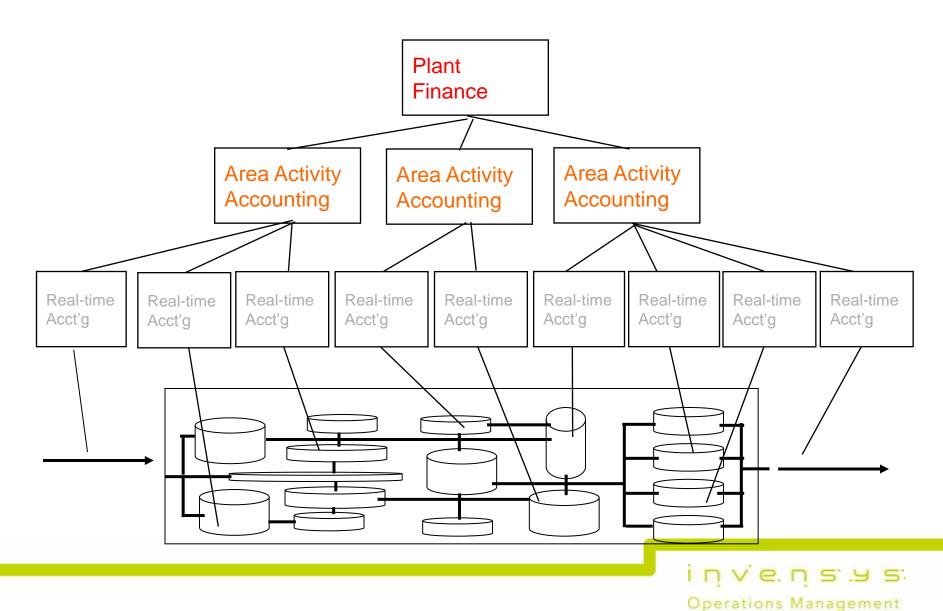


Performance Management

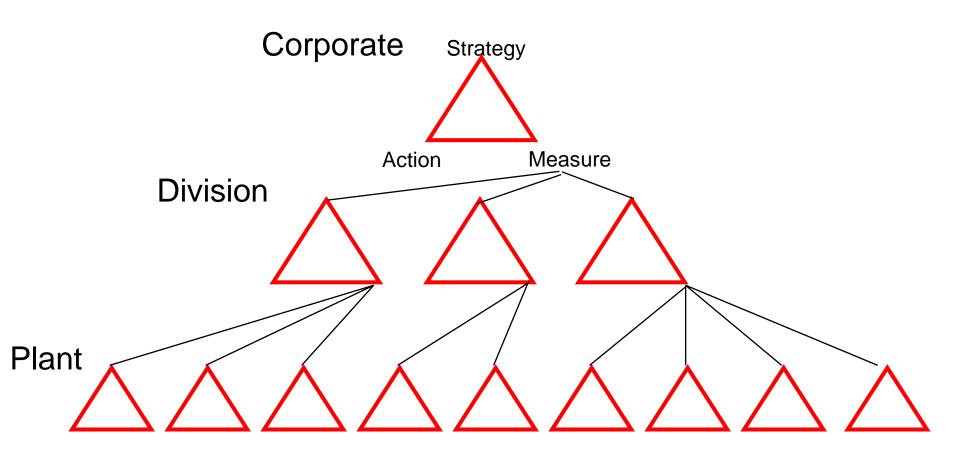




Accounting Decomposition

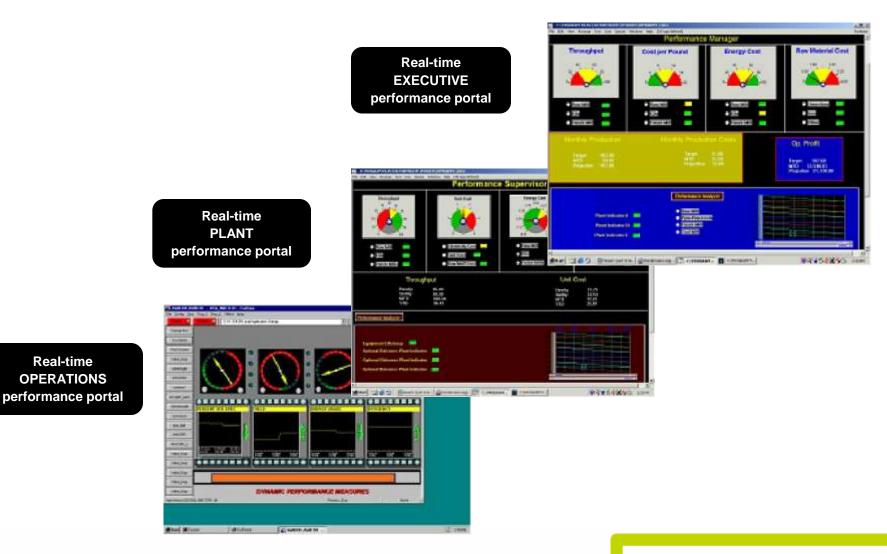


Strategy Decomposition

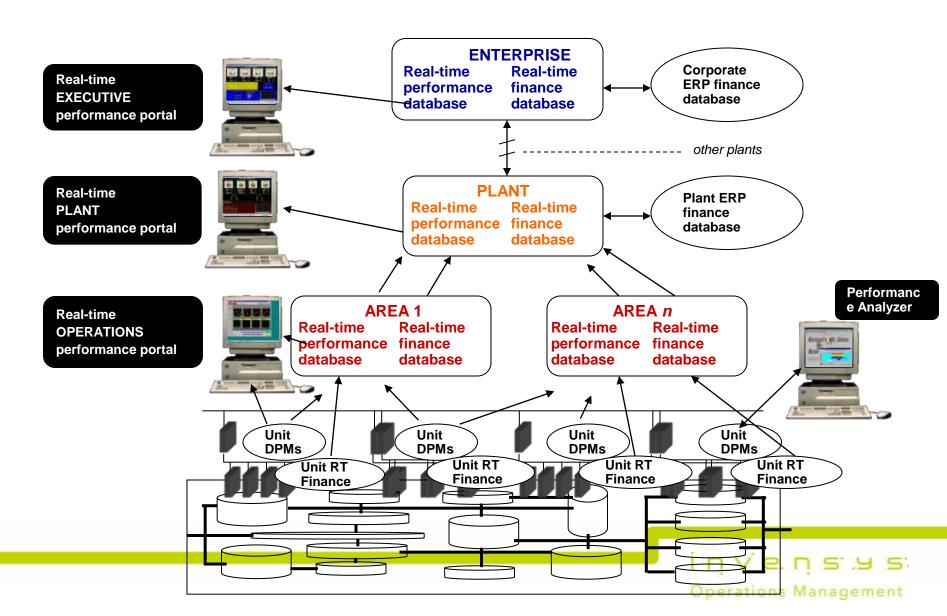




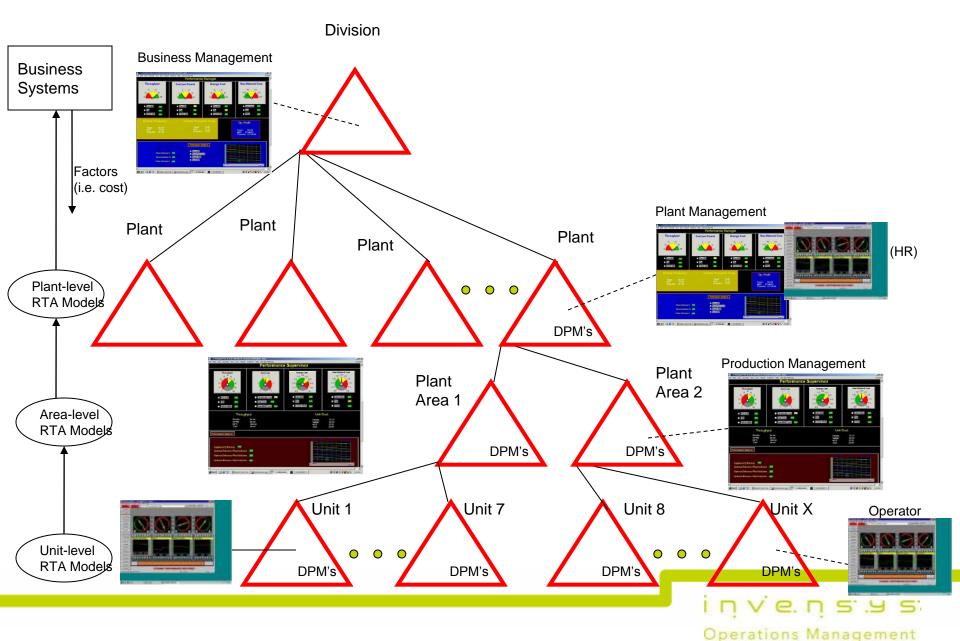
Performance visualization



Dynamic Performance Measurement Using Typical Automation Infrastructure

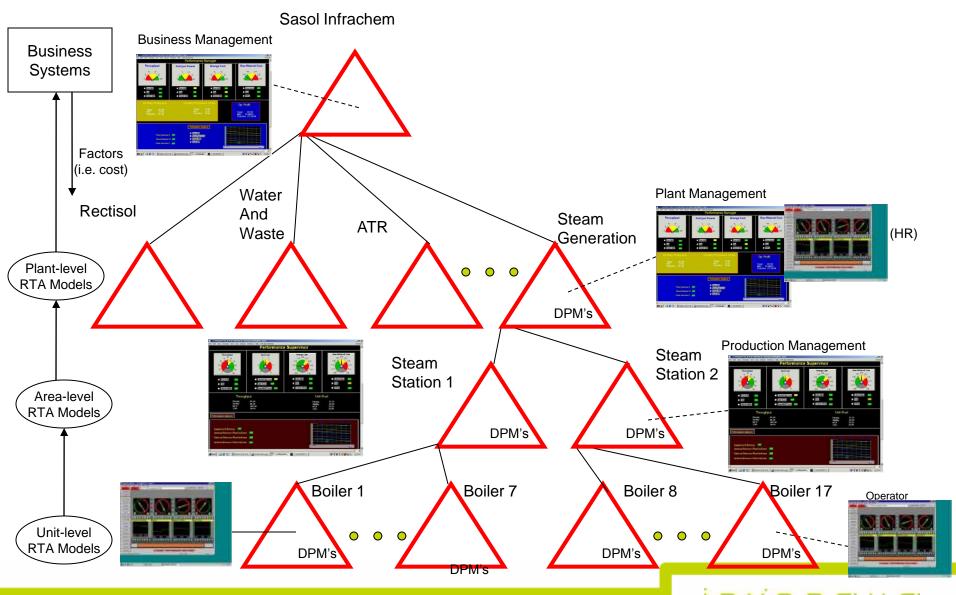


Dynamic Performance Measurement



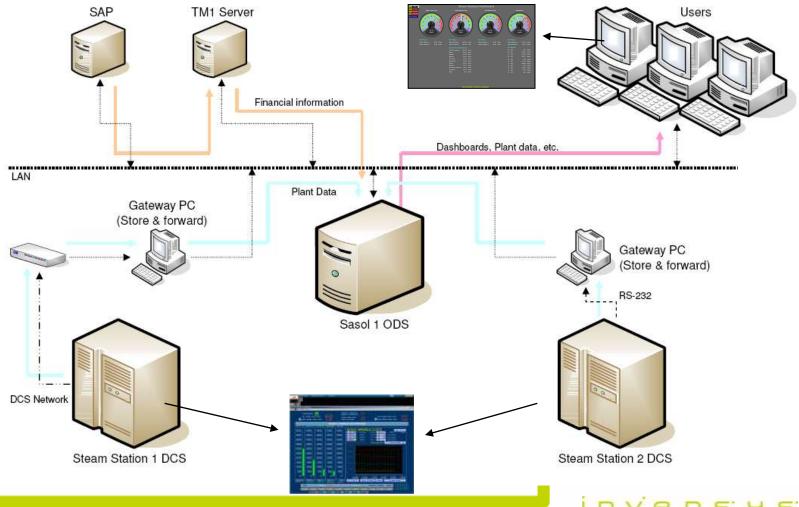
Case Study

Dynamic Performance Measurement

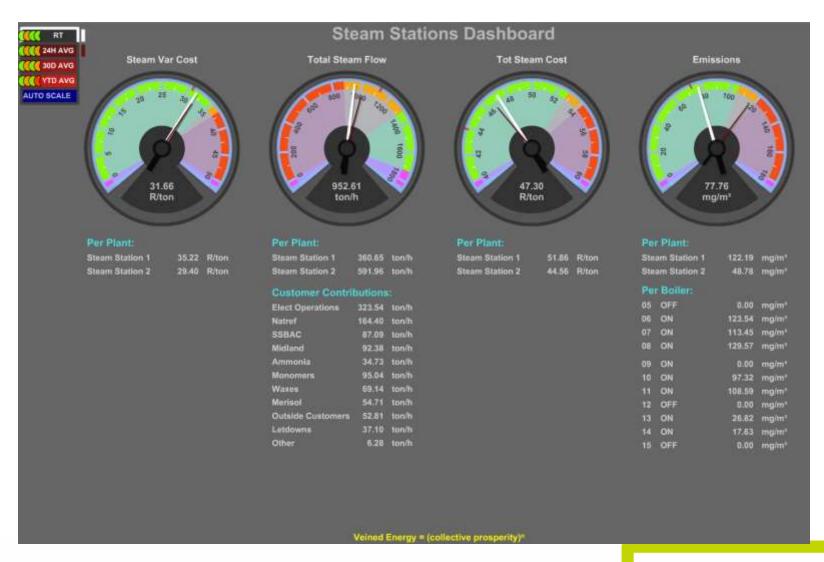


DPM Solution for Sasol Infrachem

DPM Information Flow (physical)

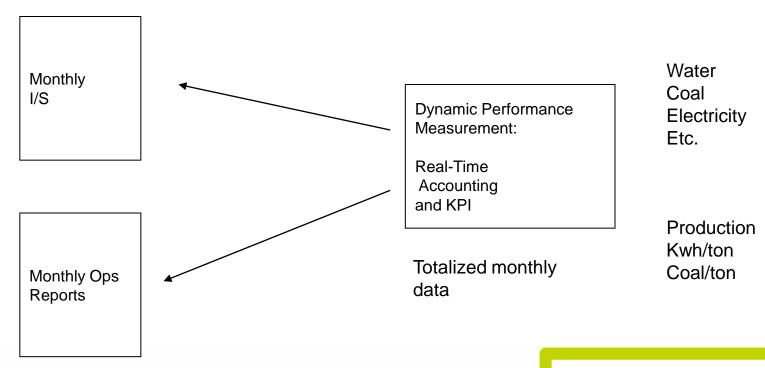


DPM Solution for Sasol Infrachem



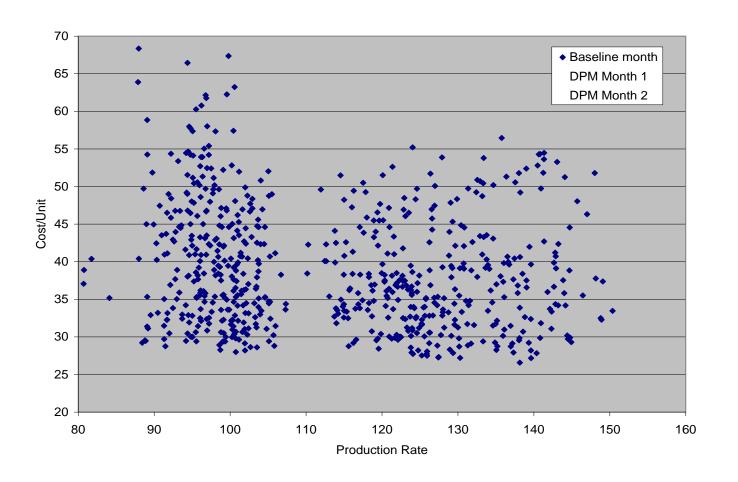
Validation

- Variable Costs
- Operational Performance Metrics



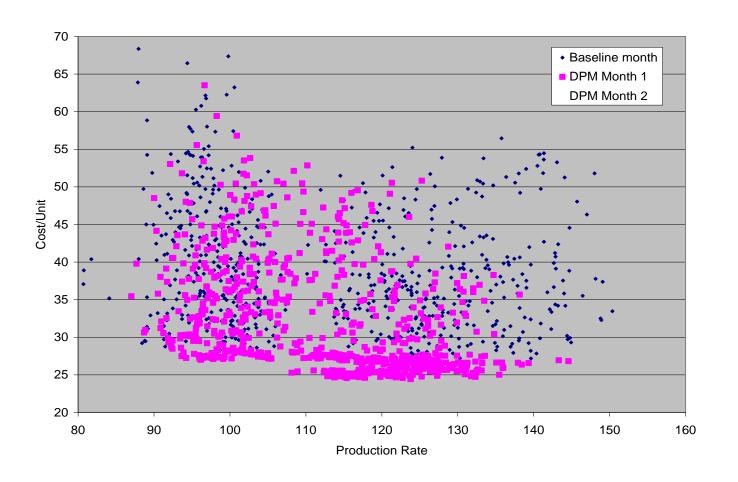


Results (Baseline)

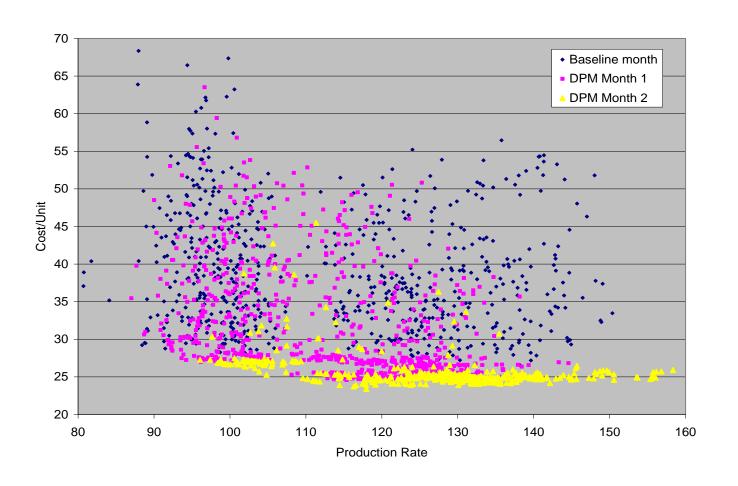




Results 1st month



Results 2nd month





Challenges

Change Management

Dealing with and bringing together silos

Automation and IT integration



Value Expectations

- 4 to 5 % variable cost reduction
- Better alignment within operations to business
- Better coordination and interaction between functions
- Improved analytics with additional business information

Thank You!