Real-time Data Platform & the OSIsoft PI System Henko Engelbrecht





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BHP at a glance





Primary Commodities: Copper, Iron Ore, Coal, Petroleum and Potash



FY2018

US\$33.9 billion total contribution



through payments to suppliers, wages and employee benefits, dividends, taxes and royalties

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What we want to achieve

Build a global Real-time data platform: Changing the way we think

- Break stigma around "it is just a historian"
- Teaching users to 'fish' themselves
- Move away from point to point solutions and spider webs
- Ensure reusable investments and seamless integration
- Break away from waterfall and move towards agile
- It's all about capabilities, enablement, sustainability and growth

The Real-time Data Platform do not have an end-state, it is rather a system of continuous evolving infrastructure and capabilities driven by business needs





Where we have an OSIsoft PI System footprint



Challenges and learnings

1. Traditional historian versus platform (It is not only a Historian!)

- 2. You need a well defined operating model aligned to a blueprint/standard (the 'how')
- 3. Funding no one wants to pay for something everyone uses or think they already have
- 4. Only standardise what makes sense
- 5. Principles are important keeps you honest and counter opinions
- 6. Be patient; it is a journey



Traditional historian versus platform

It is for everyone but requires a solid operating model for sustainability. It is to provide the business with capabilities they did not have before.



Operating model

- Consumer producer model
- Strong principals
- Focus on enablement and quality of service
- Skilled BAU team
 - (Operational SME's Jack of all trades)
- Simplicity in user groups
- General
- Advance
- Learning & upskilling model





Operating model and principles



Aspects of success and maturity



Heaps of value: applying the operating model



Example: Iron Ore only

Some PI Vision examples:







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Real-time data platform using the PI System

Company goal

Turn time-series data into knowledge and wisdom

Create reusable investments to magnify business value through the application of a Platform operating model



Challenge

Transform "How" BHP use timeseries data to maximise operational intelligence

- Change the way we think
- Empower as many system and people users as possible
- Break stigma around Historians
- Move away from spider webs and point to point solutions
- Rapid scaling

Solution

Platform thinking based on market leading technology enabled through a sustainable platform operating model.

It is all about the "how" not the "what" • the **Operating model**

Results

Magnified value and acceleration through reusable investments



- Approximately 5 mil tags and growing
- 120+ solutions many we do not know of
- ± 1,000 users and growing
- 32 sites
- Many systems integrated
- This is just the start!



Questions?

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