Where *Standards* and *Big Data Analytics* Meet

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Problem Statement

We live in a world of operational silos that are difficult to integrate and streamline, thereby creating a situation in which we extract sub-optimal performance from our assets.
Solution

Industry Standards + Big Data Analytics
Value

- Enhanced collaboration
- 360° view of the assets
- Optimized operations
- “Right time” decisions and actions
Example: Integrated Operations

Enabled by Open Standards

- Analysis of real time data *in motion*
- Business process management
- Data management
- Security
- Mobility

- Analysis of data *at rest*

Delivered on the Cloud and/or on Premise

Rigsite
Aggregator

Historian

Other Data
Sources

Production

Costs

Safety
Example: Integrated Operations

**Enabled by Open Standards**

- Complex event processing
- Real time pattern matching
- Middleware
- Big data processing
- Predictive modeling
- In memory analytics

**Delivered on the Cloud and/or on Premise**

- Production
- Costs
- Safety

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Recommendation

1. Select a *critical problem* to address
2. Select all the relevant data sources to develop predictive models and insights on the *data at rest*
3. Leverage data exchange, data modeling and interoperability *standards* whenever possible
4. Leverage predictive models on the *data in motion*
5. Deliver a *successful pilot*
6. Scale to build a structural *competitive advantage*
So What?

- Standards and analytics go hand in hand to drive performance improvements
- Both are critical to increase production, reduce costs and ensure safety
Hardware and Software
Engineered to Work Together