OSIsoft。 USERS CONFERENCE 2016

April 4-8, 2016 | San Francisco

TRANSFORM YOUR WORLD



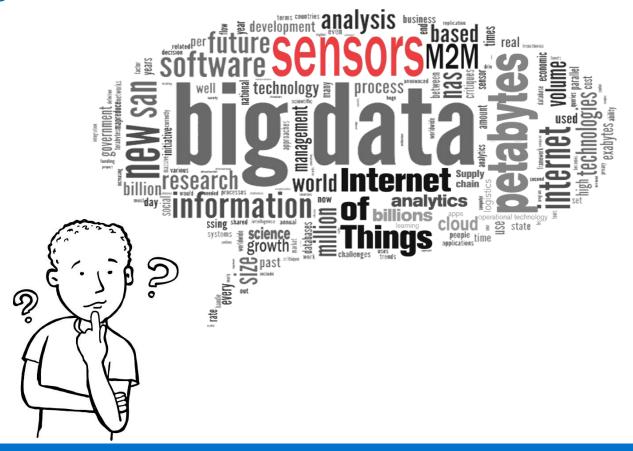
Driving Transformational Changes in your Organization by Integrating Global IT Trends with the PI System

Presented by

Norton Green, Executive Briefing Program Director **Curt Hertler,** Global Solutions Architect



IT Trends



IT Trends.... Demystified

Business Drivers







Megatrends



Mobility





Big Data

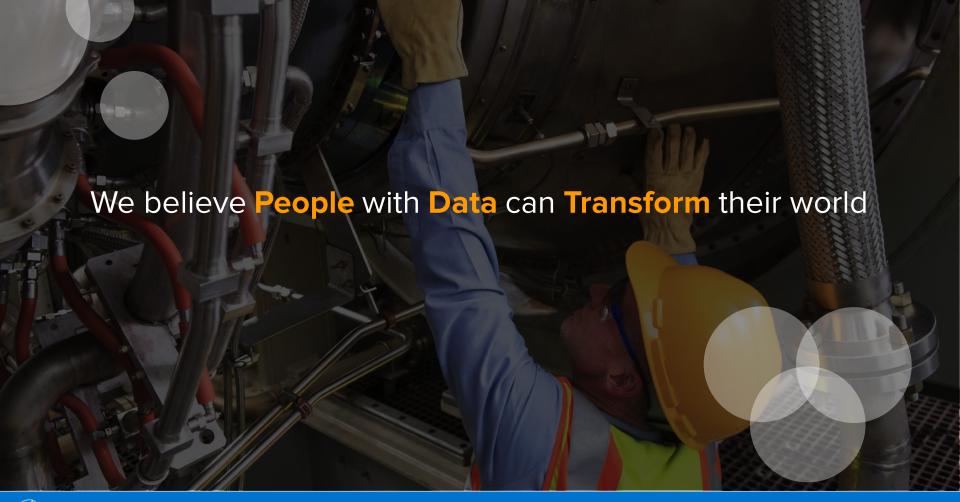














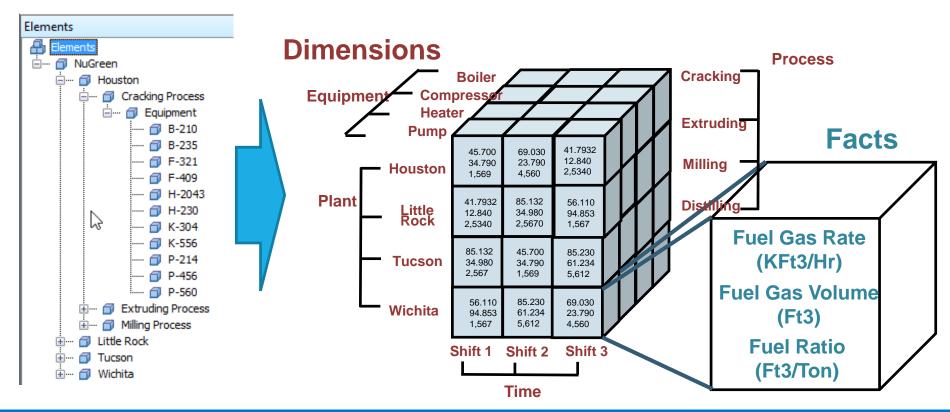
The OSIsoft BI Journey

2009: Does BI have value to Operations?

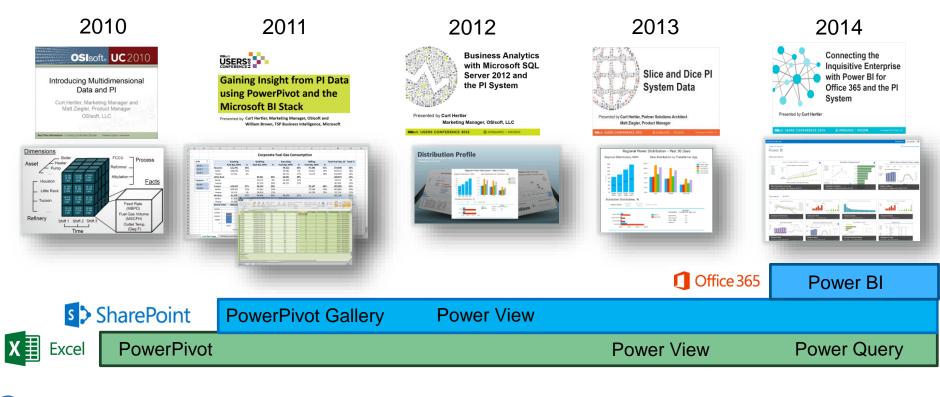
- PoC using Microsoft PerformancePoint
- Hired third-party consultant
- Custom application written to create dataset with Asset Framework (AF) context



2009: We learned AF context is important?



Tools became more accessible and easier to use.



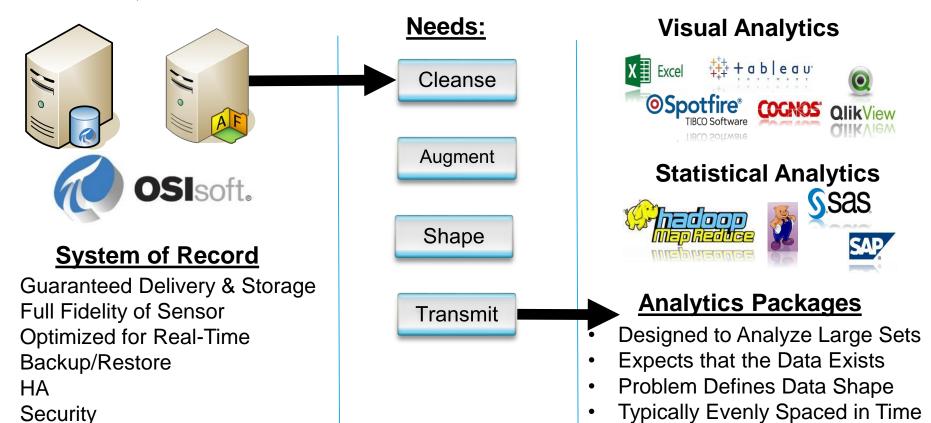


PI OLEDB Enterprise

PI Web API



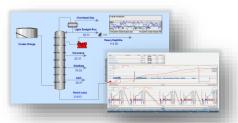
However, we needed a new data access tools.



The PI Infrastructure Extended

Real-Time Decision Analysis

Retrospective & Predictive Analysis



Time and Event Trending & Awareness

Specialized Models Simulation & Optimization

$$Q=rac{\Delta P_{DD}*kh}{141.2\mu B_0\Big\{lnrac{r_e}{r_w}-rac{3}{4}+S\Big\}}$$

Descriptive
Performance
& Condition

PI Integrator for Business Analytics & SAP HANA IoT Connector by OSIsoft

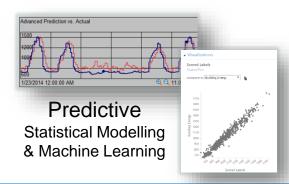


Time, Event and Asset Context

Tabular Context



Multidimensional
Business Intelligence
& Dashboards



New ways to socialize performance.

Organizational Insight



Access

Personal Analytics & Assessment



Collaborative Intelligence



Mobility & Socialization

Data with Context

Content

Operational Awareness

PI Integrator for BA

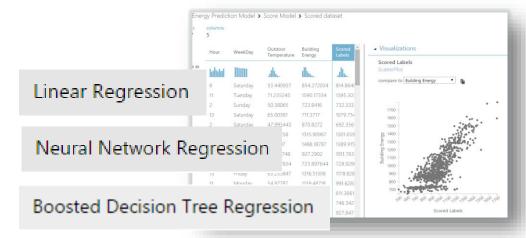


PI System

Action

Predictive Modelling & Machine Learning

- Complex systems where first principles equations interact or don't exist
- Empirical or "fitted" models generated from time, event and asset data in tabular context
- Predicts outcome,
 e.g. equipment failure,
 unmeasured or forecasted
 quantities
- Model continuously improves or "learns" with additional data



Two-Class Decision Forest





Multiclass Decision Jungle



Microsoft Azure Machine Learning



Agenda

9:00am- 9:30am	Driving Transformational Changes in your Organization by Integrating Global IT Trends with the PI System Speakers: Norton Green, Curt Hertler
9:30am- 9:45am	Transfer Time
9:45am- 10:15am	How the Industrial Internet of Things is Changing Operations – ARC Advisory Group Speaker: Peter Reynolds
10:15am- 10:30am	Transfer Time
10:30am- 11:00am	Digitization and Innovation: Explore how OSIsoft's Infrastructure and the SAP HANA Platform help customers in their Digital Transformation Journey - SAP Speaker: Bala Ram
11:00am- 11:15am	Transfer Time
11:15am- 12:00pm	Shorten Time to Analytical Insights with PI System Data – Barrick Gold and Element Analytics Speakers: Iain Allen, Sameer Kalwani
12:00pm- 2:00pm	LUNCH - Grand Ballroom, Grand Ballroom Level
2:00pm- 2:30pm	Management of Remote Assets with the PI System and Ominor – Quarcum Technologies Speaker: Luigino Rigitano
2:30pm- 2:45pm	Transfer Time
2:45pm- 3:15pm	Cyber Security for Industrial IT – Exploring Partnership for Effective Incident Response - OSIsoft Speakers: Bryan Owen, Ryan Cheff
3:15pm- 3:30pm	Transfer Time
3:30pm- 4:15pm	Utilizing PI Cloud Connect to Optimize the Collection and Transformation of Process Data for Power Plants – Strategic Power Systems Speaker: Robert Steele
4:15pm- 4:45pm	Panel Discussion: Achieving Operational Agility As You Transform Your World with Disruptive Technologies – OSIsoft Speaker: Moderator - Daniel Lopresti



Contact Information

Norton Green

ngreen@osisoft.com

Executive Briefing Program Director OSIsoft LLC

Curt Hertler

chertler@osisoft.com

Global Solutions Architect

OSIsoft LLC

Questions

Please wait for the microphone before asking your questions

State your name & company

Please remember to...

Complete the Online Survey for this session





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감사합니다

Danke

Gracias

谢谢

Merci

Thank You

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Спасибо

Obrigado



Industrial IT PI User Groups

Join to discuss best practices, white papers, share news, and exchange ideas.

Objectives:

- Identify Best Practices
- Share knowledge and ideas across our industry
- Foster communication with OSIsoft regarding our industry needs

This is NOT an avenue for sales presentations or marketing



Want to opt in?

https://pisquare.osisoft.com/groups/industryIT https://pisquare.osisoft.com/groups/data-centers

Or contact jsirois@osisoft.com

Have questions?

- jsirois@osisoft.com
- ngreen@osisoft.com Industrial IT
- glagro@osisoft.com Data Centers Group
- Visit the PI Square Booth



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