



OSIsoft®

EMEA USERS CONFERENCE

BERLIN, GERMANY • SEPT 26-29, 2016



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Continuing the Journey to Operational Intelligence

Process Industries

Presented by **Perry Zalevsky**
Industry Principal, OSIsoft



Agenda

- Welcome
- Safety
- Overview of the Day
- Operational Intelligence
- Thoughts

Conference Theme and Keywords



Safety - Hearing



Overview of the Day

	Life Sciences/Food & Beverages/Specialty Chemicals - Bellevue	Power Generation - Potsdam I	Transmission & Distribution - Tegel	Oil & Gas/Industrial Chemicals - Potsdam III	Process Industries - Tiergarten	Industrial IT - Charlottenburg
9:00-9:30	OSIsoft Enabling Decisions and Improving Quality with the PI System- Petter Moree – Petter Moree	OSIsoft The Power of Data in Power Generation – David Thomason, Chris Crosby	OSIsoft Enhance the Performance and Reliability of Transmission & Distribution Systems Using Real-Time Operational Data – Miguel Chavero	OSIsoft Digital Transformation within the Oil & Gas Industry – Russell Herbert	OSIsoft Continuing the Journey to Operational Intelligence – Perry Zalevsky	OSIsoft Driving Transformational Changes by Integrating Global IT Trends with the PI System – Norton Green
9:30-10:00	Irish Distillers Pernod-Ricard Using Data Analytics to drive Process Optimisation in Whiskey Manufacturing – Dagmara Dabrowska	RWE Supply & Trading Greater Flexibility for Smart Energy – Arie van Boven, Arco Stolk	Fingrid Developing Power System Operations: Combining Visualization and Online Analysis Using the PI System – Antti-Juhani Nikkilä	Orpic Releasing and Realizing the Potential of the PI System – Bertilla Rozario Anthony	Schott AG The Journey to Reliable and Useful Operational Data – Martin Monreal	Qualcomm oneM2M - Open Platform Standard for IoT – Josef Blanz
10:00-10:15	Transfer Time					
10:15-10:45	Janssen Monitoring Environmental Conditions on the Manufacturing Floor with PI Coresight – Arsenio Sanchez	E.ON The Internet of Wind – Gregor Biering	PowerStream Achieving Operational Efficiency at PowerStream – Vince Polsoni	TransCanada Path to Premier through Reliability 3.0	United Utilities Adoption of the PI System to meet United Utilities Business Challenges – Kevin Woodward	SAP Digitization and Innovation - Explore how OSIsoft's Infrastructure and the SAP HANA Platform help customers in their Digital Transformation Journey – Bala Ram
10:45-11:00	BREAK - Potsdam Foyer					



Overview of the Day

11:00-11:30	Abbott Nutrition Productivity and Quality Improvements Through Continuous Contextualization of PI System Data – James Li, Shamus Cunningham	EDF Renewable Energy Accelerating Asset Intelligence with SAP HANA and OSIsoft IoT Connector – Devang Shah, Piyush Pansare	DEWA Holistic View of Operations at Dubai Electricity & Water Authority (DEWA) – Muhammad Rizwan	Daleel Petroleum Meeting Production Challenges with Smarter Operations – Muneer Al Balushi	Aurubis How the PI System Can Support an Energy Management System in a Copper Company – Thorsten Stoelcken, Philipp Kohne	Thames Water IT/OT Convergence - Navigating the Transformation Journey – Nick Burkinshaw, Simon Coombs
11:30-11:45	Transfer Time					
11:45-12:15	Abbott Labs/AG Solution Transitioning to a Modern PI System in a Validated Environment – Julio López, Marc Olive	Ansaldo Energia ADA and APEX: A Global Diagnostics Platform For Power Generation – Sandro Gollini, Giuseppe di Bartolo	Entega Data Acquisition from Distributed Power Plants and Integration into the Business Intelligence System – Zijad Lemes	MOL Group Supporting Operational Availability by connecting the PI System and SAP PM – Gábor Mucsina, Reka Erdei	Paper Company Evolution of Operational Data to Support Excellence in Paper Manufacturing – Laurent Watremetz, Ruth Hounslow	OSIsoft State of PI System Security and the EU NIS Directive – Bryan Owen
12:15-14:15	LUNCH - Pavillon					
14:15-14:45	Clariant The PI System - Enabling a Digital Factory – Michael Pelz	Uniper/Pimsoft Meeting New Regulatory and Financial Challenges Through Asset Framework – Mels van der Voet, Veletia Moodie	CEPS PI System as Part of An Existing TSO Infrastructure – Martin Tauer, Lukas Sedlacek	Tullow Oil Use of the PI System for a Deepwater Oil & Gas Field – Mark Whitehouse	ArcelorMittal Ostrava Wire Rod Mill Analysis of Rolling Speed Parameters at the ArcelorMittal Ostrava Wire Rod Mill – Radomir Domcik	Flowserve/SparkCognition Industrial Intelligence: Cognitive Analytics in Action – Josh Lyon, Usman Shuja, Greg Herr
14:45-15:00	Transfer Time					



Overview of the Day

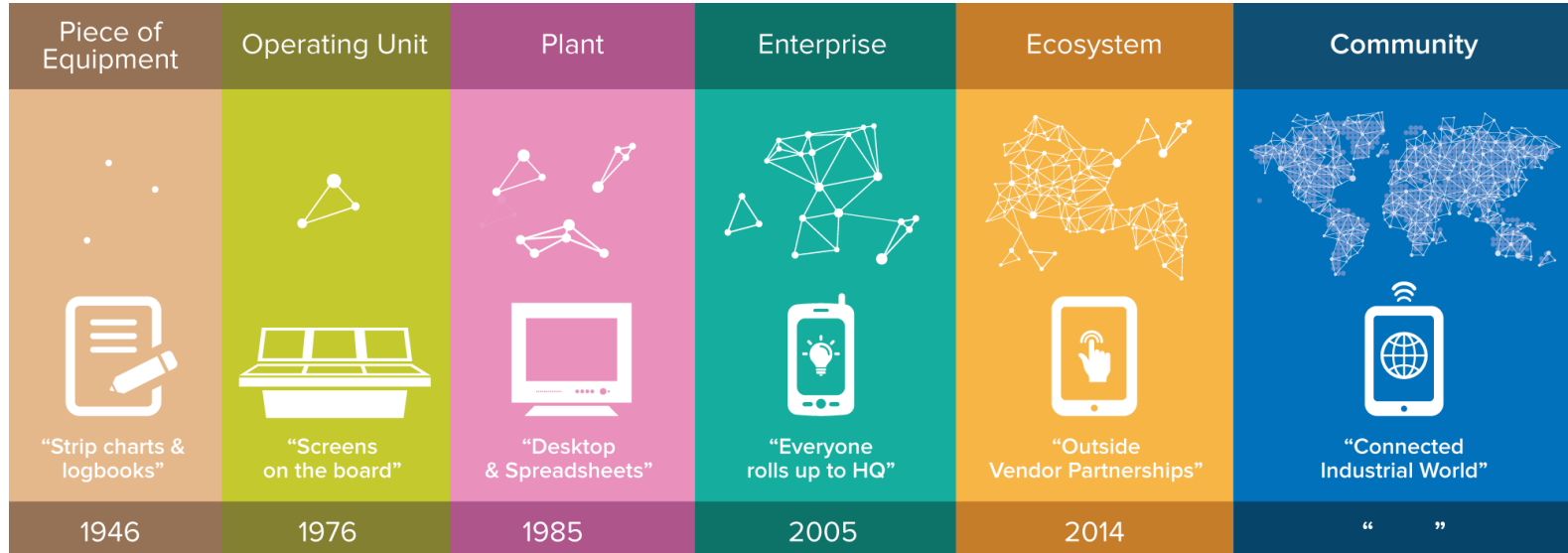
15:00-15:30	F.Hoffmann-La Roche GxP Compliant Alarm Handling with Event Frames and AF – Gerd Fromm, Christian Wirth, Philipp Sutter	AES Jordan The PI System Paves the Way for ISO50001 and ISO55001 Certifications – Anas Diab	ENEL Energy Europe Smart T&D Maintenance with the PI System – Marc Ruaix Carrera	Shell	Aurelia Metals PI System Alchemy: Turning Data into Gold – Peter Smith	OSIsoft The OSIsoft Redfish Connector - Supporting a New Industry Standard in the Datacenter World – John Daniels, Scott Robertson
15:30-16:30	Wrap Up	Wrap Up	Wrap Up	Wrap Up	Wrap Up	Wrap Up
18:00-1:00	Offsite Underground Dinner Party - Berlin U3					



The OSIssoft Vision

We believe People with Data can Transform their world

OSIsoft Evolution and Vision



Typical Process Industry Company's Vision

Commodity Production: Low Cost Producer

Sustainability: Eliminate / Minimize Risk

Value-Add Production: Products that Differentiate

What Challenges / Opportunities Are There?

Challenge – Market Conditions

- Commodity or Market Prices
- New or Improved Operations / Known Technology Competition
- New, Competitive Manufacturing Technologies

Challenge – Cost Headwinds

- Energy Costs
- Raw Materials Costs
- Labor Costs
- Logistics / Transportation Costs
- Aging Assets / Sustaining Capital Requirements

Other Challenges

- Geology – Decreasing Yields on Known Mine Reserves
- Uneven Global Economic Recovery
- Environmental Regulations / Reporting Requirements
- Keeping Pace with Technology

Opportunities

- Commodity Market Growth in Developing Countries
- Market Pull for New Materials / Alloys (Strength, Weight)
- Sustainable Materials

Where Do Companies Find Value?



Process Productivity

Making the process better
Small changes are worth a lot
In areas such as material flow, pacing and supply chain



Energy and Water Management

Monitoring and managing energy and water
Fuel for mobile equipment



Asset Performance and Reliability

Keep the machines running
Improve uptime
Reduce unplanned downtime
Condition-based maintenance



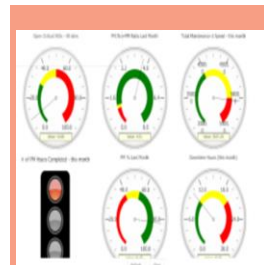
Environmental, Health and Safety Compliance

Governmental regulations
Accidents and incidents
Environmental monitoring
Compliance and audit



Quality Assurance

Real-time monitoring
Genealogy (history)
Certifications
Yield

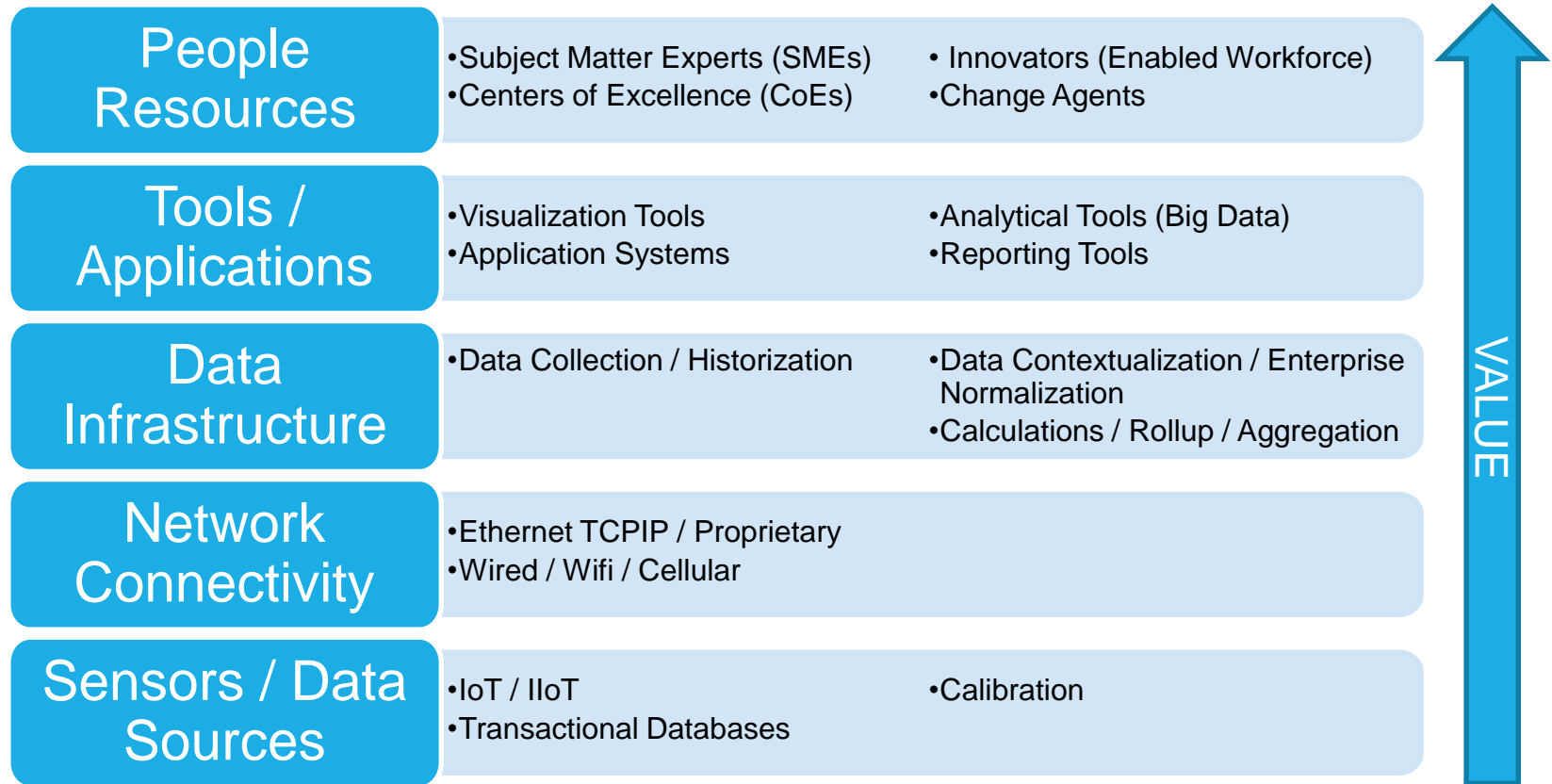


KPI's and Reporting

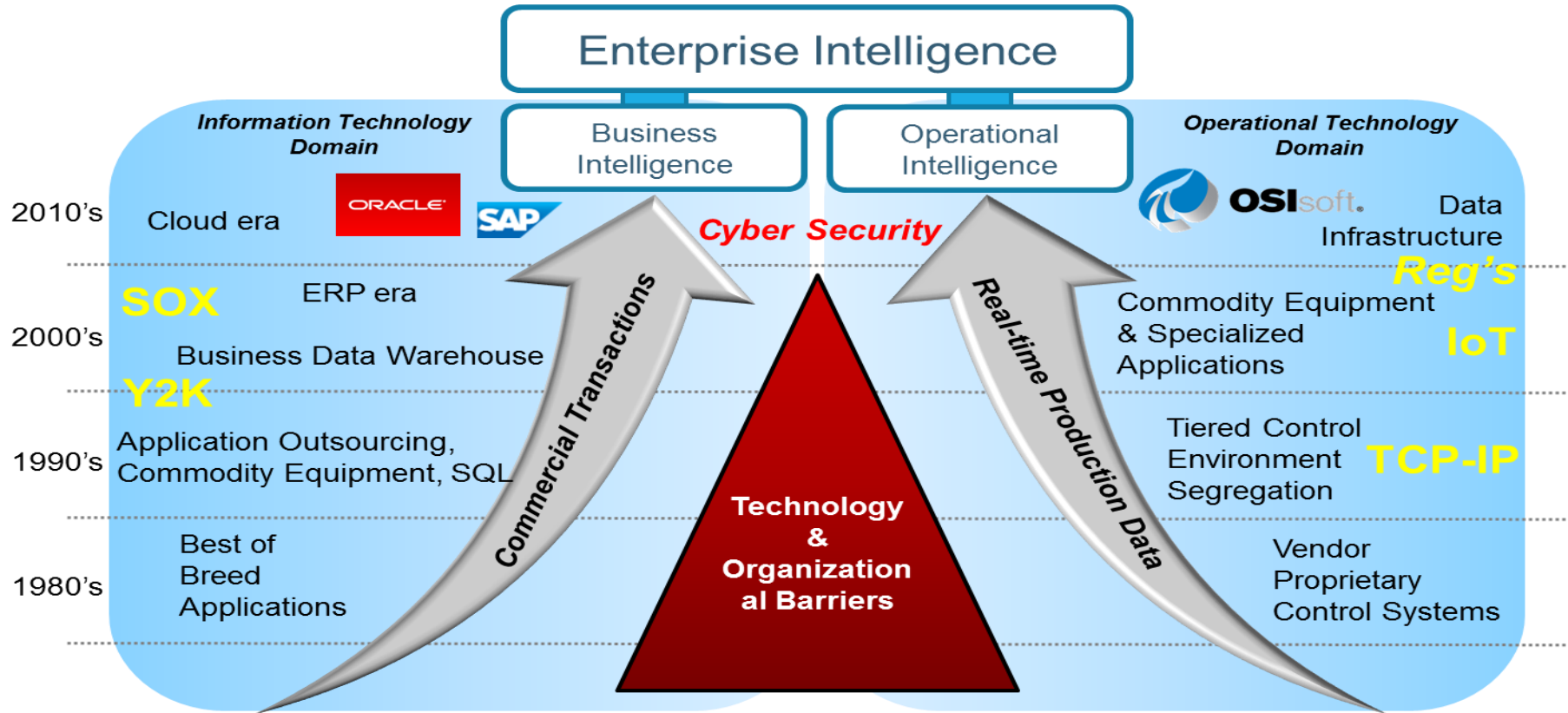
Plant and Mine-wide to enterprise
Common definitions & calculations
Benchmarking & comparison



Data to Value: Recognizing the Critical Contributors



Recognizing IT/OT Convergence



What Type of Approach is Best?

PROJECT

Pros:

- Well Defined, Limited Scope
- Single Design / Deployment
- More Manageable Initial Cost
- Common starting point

Cons:

- Site Based, One Off Solutions
- Not Easy to Leverage / Deploy 'Best Practices' or 'Standards' across Multiple Sites
- New Projects Require New Software / New Solutions / New Funding / **New Start**
- Cost / Complexity Increase Over Time

PROGRAM

Pros:

- Supports Transformation through Continuous Improvement Program
- Shorter Time to Value for Defined Value Initiatives
- Less Investment / Funding Required for Next Projects
- Leverage of 'Common Standards' or 'Best Practices'
- Provides Standard Approach to Technology / Minimizes Complexity
- Engages People

Cons:

- Higher Initial Funding Investment (Offset by Lower ongoing TCO and Stronger Value Realization)

You may have heard of these...

Predictive Analytics Digital Transformation
M2M Sensor Data IT/OT
IIoT Visualization Industrie 4.0
Convergence IoT Big Data
Smart Devices Real-time

Key Point - These all generate, use, or manipulate Operational Data



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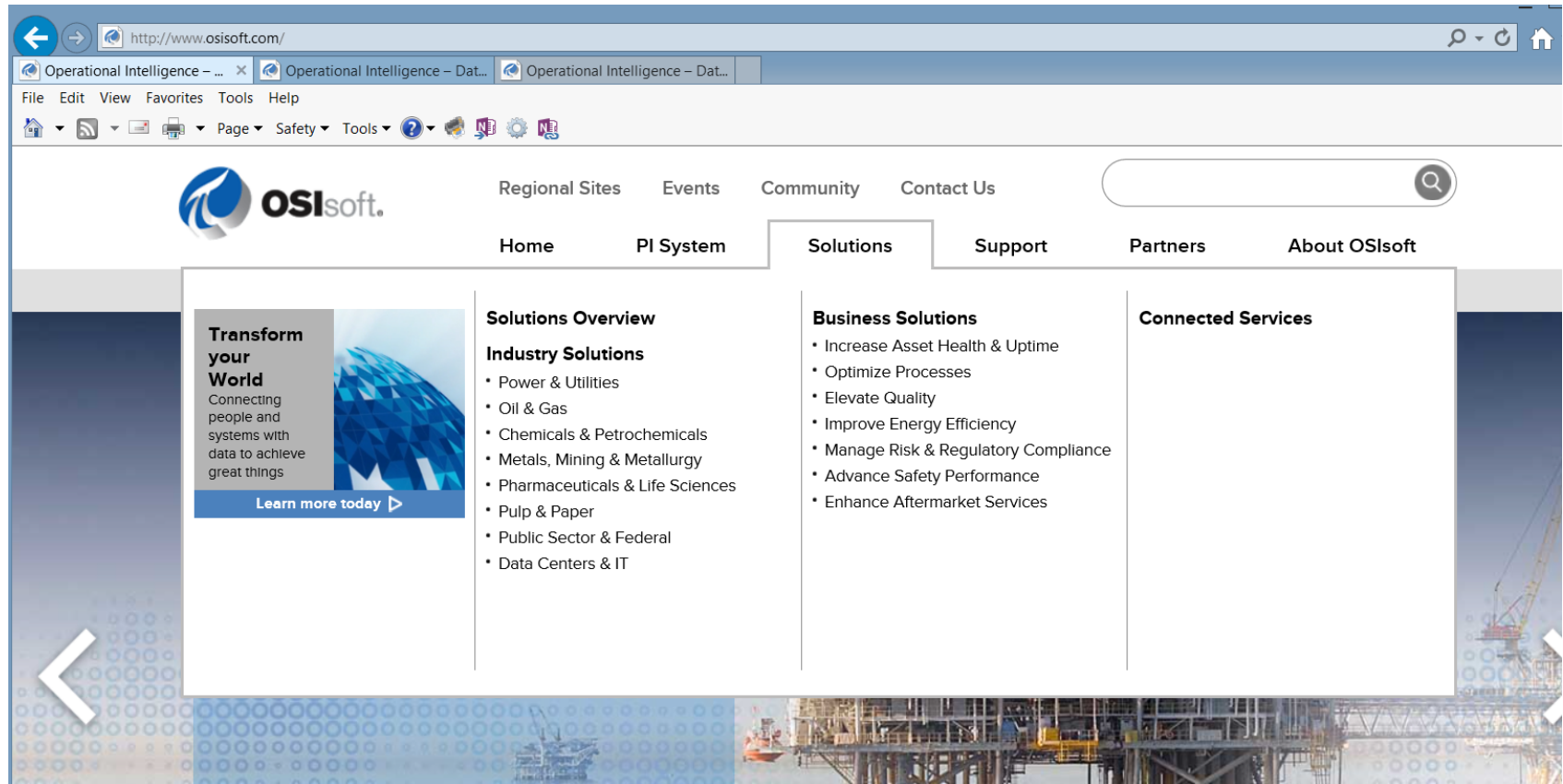


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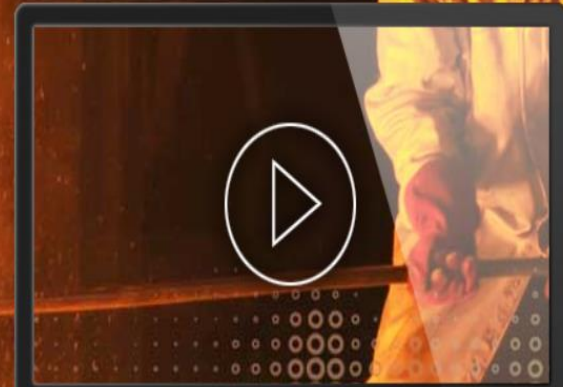
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Metals, Mining & Metallurgy

A comprehensive solution for a complex industry

How are today's metals and mining industries meeting the increasingly complex demands of lower-grade ores, material complexity and tightening regulatory compliance, as well as growing pressures on resources, energy and transportation? The leading mining, mineral processing, metallurgical processing and product



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Forest and Paper Products PI User Group

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

Customer run,
customer led,
OSIsoft assisted

This is NOT an avenue for sales presentations or marketing

Want to opt in?

<https://pisquare.osisoft.com/groups/paper>

Or contact jsirois@osisoft.com



Have questions?

- jsirois@osisoft.com
- msandin@osisoft.com
- Visit the PI Square Booth



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Mining, Metals, and Materials PI User Group

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

Customer run,
customer led,
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Want to opt in?

<https://pisquare.osisoft.com/groups/mmm>

Or contact jsirois@osisoft.com



Have questions?

- jsirois@osisoft.com
- pzalevsky@osisoft.com
- Visit the PI Square Booth



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Facilities and Water and Wastewater 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/facilities>
<https://pisquare.osisoft.com/groups/water>

Or contact jsirois@osisoft.com



Have questions?

- jsirois@osisoft.com – any user group
- ddoll@osisoft.com – Facilities Group
- gwong@osisoft.com – Water Group
- Visit the PI Square Booth



Key Considerations for Today's Session

- What is your vision for the use of data in your company / division?
- What role does operational data play as a key part in your vision?
- What are you doing to establish operational intelligence in your company?
- What are your key takeaways from today's presentations?

Contact Information

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Questions

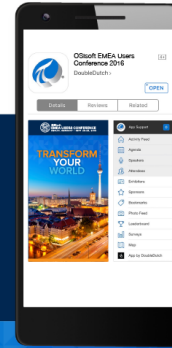
Please wait for the **microphone** before asking your questions



State your **name & company**

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감사합니다

谢谢

Danke

Merci

Gracias

Thank You

ありがとう

Спасибо

Obrigado

Remember – It's All About the DATA!



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