USERS CONFERENCE 2016 April 4-8, 2016 | San Francisco

TRANSFORM YOUR WORLD



Process Industries, Transportation and Supply Chain

Presented by Matthew Miller

Transportation Industry Principal

Thanks to our sponsors!

Gold Sponsors



Silver Sponsors









Bronze Sponsors

































Agenda

- Digitalization of business
- Digital supply chains, ecosystems and communities
- How the PI System enables digitalization
- Industry Day session overview

Digitalization of Asset & Energy Intensive Businesses

- "I DON'T KNOW" is no longer a good answer...
- Finding efficiencies inside and outside the 4 walls
- Data-driven culture is elusive at scale
- Driving predictable outcomes
 - Reduce variability
 - Understand environmental impacts
 - Embrace uncertainty



Maturity Cycle of Digitalization digital competence → digital usage → digital transformation

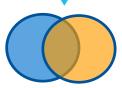
Not something you buy, its something you do!



Top down – strategic vision driven



Bring OT and IT worlds together

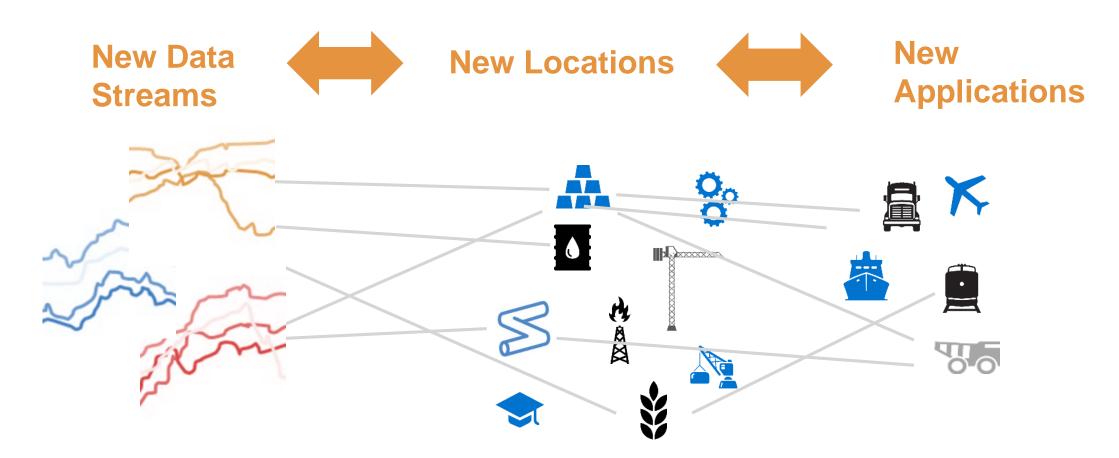


- IoT capture digital records of <u>ALL</u> key physical behaviors
- Finding opportunities inside and outside the 4 walls (supply chain and communities)

Capturing all the data....

... bringing and end to "I don't know...."

Internet of Things



Multiple Sites, Multiple Systems, Multiple Users, Multiple Businesses, Simplified Governance

Challenges around connecting sensors & equipment





TRAVERSING NETWORKS



SILOS



END POINT DEVICE MGMT



CONTEXT



NETWORK MGMT



VARIETY

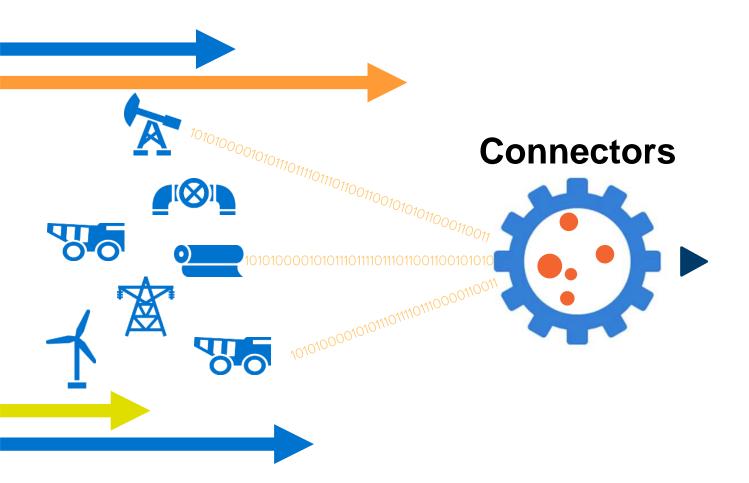


SECURITY



http://pages.osisoft.com/IIoT_Connecting_Mobile_Assets_WP_LP.html

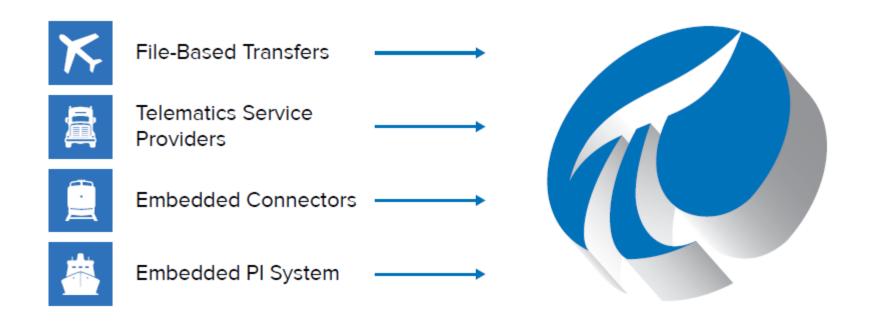
PI Connectors



- Data source is the system of record
- Data collected in terms of assets as defined by the data source
- Assets auto-created in AF
- Tags auto-created in PI Server, linked to AF Elements
- Events collected and stored in Event Frames
- Easy to configure

TECHcon Talk - Connectivity from A to Z - Roadmap for PI Connectors and PI Interfaces 1:20 pm Continental 6

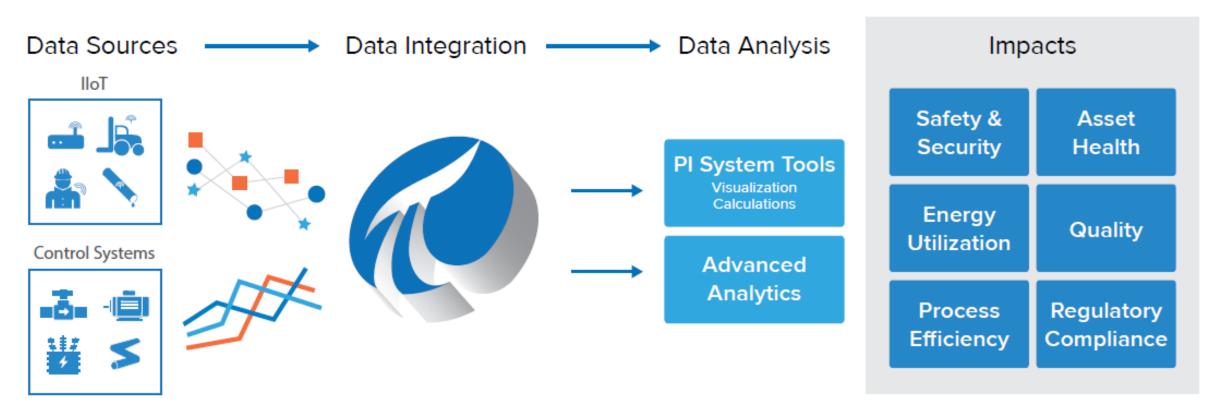
Connecting mobile equipment to the PI System



Getting Started with IIoT and the PI System Continental 6 3:00 PM

Collecting Data using the new PI Connector for UFL – Integration Lab 1

Hybrid Industrial Data Ecosystem

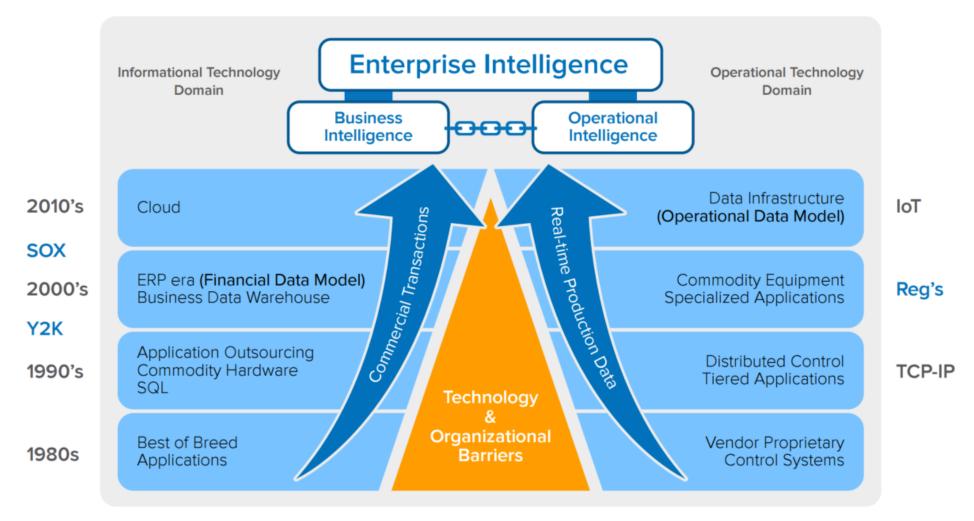


Data, process and people working together...

... to improve the business

Evolution of OT and IT Integration

Streenstrup quote.



White paper wp-strategies-for-integrating-ot-and-it-lt-en20.pdf



Defrag your Infrastructure

- One version of the truth
- Secure access to all stakeholders
- Real-time
- Data Quality
- Self-Serve
- LOB Managed.
- Administered by IT
- Minimize Gaps

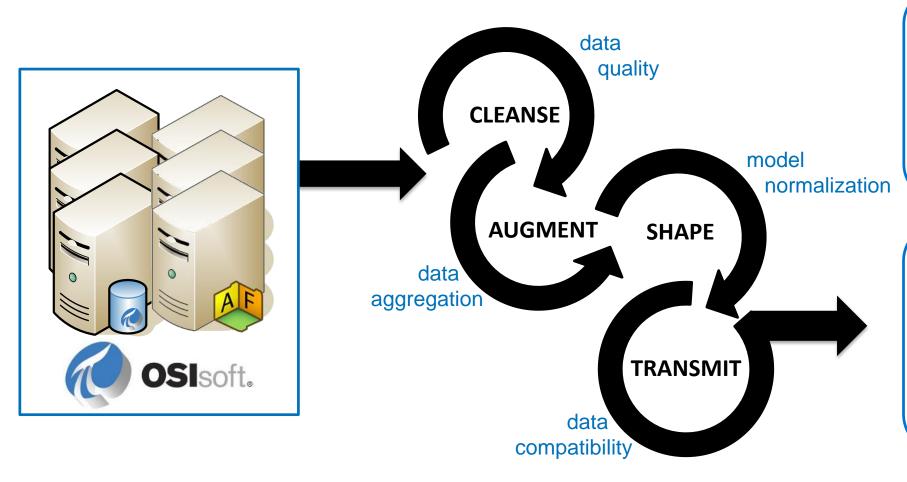


How OSIsoft has evolved to enable digital transformation

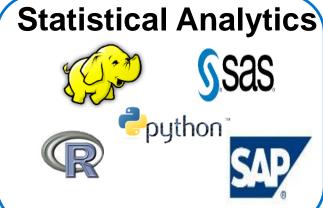
- Operationalize Context AF & EF
- Support the mobile workforce PI Coresight
- Build COTS OT/IT Bridge PI Integrators
- Enable ecosystems and communities PI Cloud Services
- New License Models EA, CSSA
- Partnerships and Alliances
- Developed white papers and solution briefs

Matt Z. talk.. OT/IT integration PDWH

PI Integrator for Business Analytics





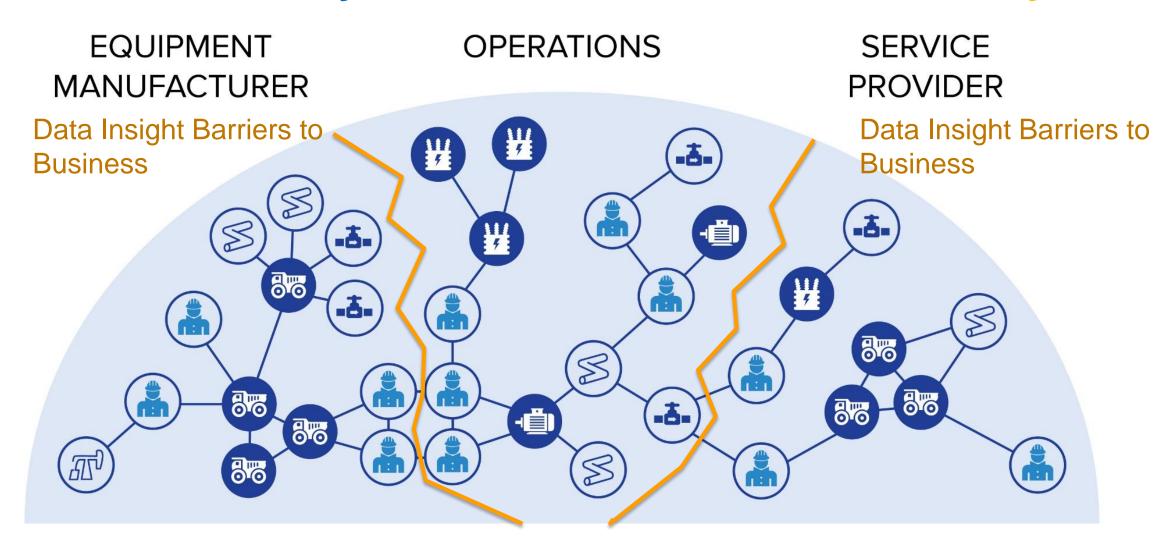


Common Asset and Time Context = Common Ground

Sharing beyond traditional four walls....

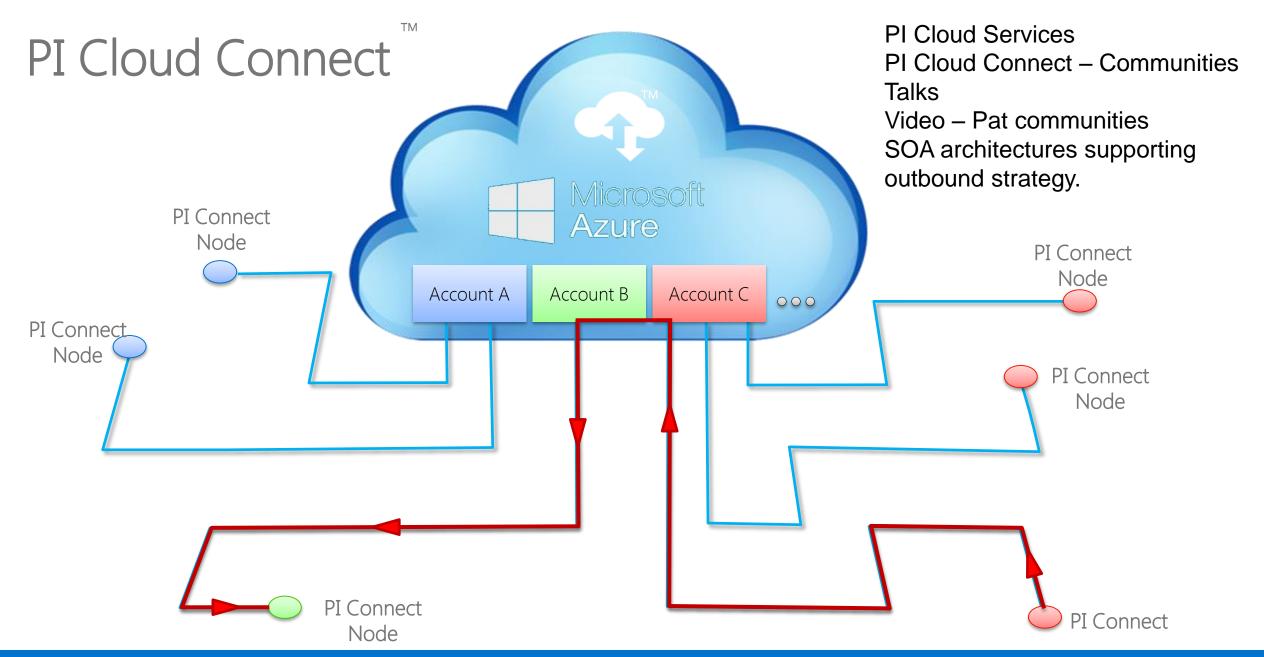
... and beyond the organization

Connected Industry of the Future enables Community

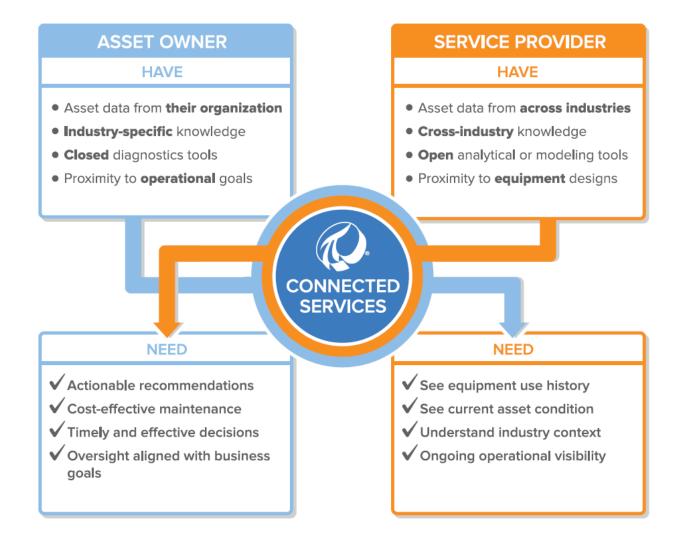


SOURCE: OSIsoft IoT Whitepaper on Marketing.Home





Connected Services – Building a Service Ecosystems



New partnerships, research and applications

BAE SYSTEMS





























Carnegie Mellon











Transportation & Supply Chain 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



This is NOT an avenue for sales presentations or marketing

Want to opt in?

https://pisquare.osisoft.com/groups/transportation

Or contact jsirois@osisoft.com



Have questions?

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



Today's Industry Track Presentations

Presentation	Time	Presenter
Smart Manufacturing - Next Generation IT for Next Generation Manufacturing	9:45-10:15	Jim Davis, PhD – UCLA/SMLC
Daily Performance Management through Visual Analytics	10:30-11:00	Bruce Lucas - Michelin North America
Heavy Haul Equipment Logistical Challenges in Iron Ore Mining - Strategies to Turn Real-time Information into Operational Efficiency with the PI System	11:15-12:00	Michel Plourde - ArcelorMittal Mines Canada
Lunch (J1939 roundtable)	12:00- 2:00	PI Connector Development and PM Team
Loram Knows How to Keep Things Moving	2:00-2:30	Eric E. Manninen - Loram
Bluestar's Business Transformation with the PI System	2:45-3:15	Martin Ma - Nantong Xingchen Synthetic Material Co Ltd.
Lenzing Journey to Operational Excellence with OSIsoft PI	3:30-4:15	Wolfgang Purrer - Lenzing AG
Common perspectives surrounding digital enterprises, assets, process and supply chains	4:15-4:45	Kristin Kelly – Content Strategist Matthew Miller – Industry Principal

Contact Information

Matthew R. Miller
Transportation Industry Principal
mmiller@osisoft.com



Questions

Please wait for the microphone before asking your questions

State your name & company

Please remember to...

Complete the Online Survey for this session





http://ddut.ch/osisoft

USERS CONFERENCE 2016

April 4-8, 2016 | San Francisco

TRANSFORM YOUR WORLD



Session Wrap-up

Today's Industry Track Presentations

Presentation	Time	Presenter
Smart Manufacturing - Next Generation IT for Next Generation Manufacturing	9:45-10:15	Jim Davis, PhD – UCLA/SMLC
Daily Performance Management through Visual Analytics	10:30-11:00	Bruce Lucas - Michelin North America
Heavy Haul Equipment Logistical Challenges in Iron Ore Mining - Strategies to Turn Real-time Information into Operational Efficiency with the PI System	11:15-12:00	Michel Plourde - ArcelorMittal Mines Canada
Lunch (J1939 roundtable)	12:00- 2:00	PI Connector Development and PM Team
Loram Knows How to Keep Things Moving	2:00-2:30	Eric E. Manninen - Loram
Bluestar's Business Transformation with the PI System	2:45-3:15	Martin Ma - Nantong Xingchen Synthetic Material Co Ltd.
Lenzing Journey to Operational Excellence with OSIsoft PI	3:30-4:15	Wolfgang Purrer - Lenzing AG
Common perspectives surrounding digital enterprises, assets, process and supply chains	4:15-4:45	Kristin Kelly – Content Strategist Matthew Miller – Industry Principal

Maturity Cycle of Digitalization

digital competence → digital usage → digital transformation

Not something you buy, it's a strategy!



- Driven from the top
- Bring OT and IT worlds together



- IoT capture digital records of <u>ALL</u> key physical behaviors
- Finding opportunities inside and outside the 4 walls (supply chain and communities)



Is "digitalization" a top priority for your executives?

- 1. Yes!
- 2. For parts of the enterprise
- 3. It's a few years down the road
- 4. No or I don't know

The biggest challenge to adopting digital strategies is:

- 1. Restructuring IT systems
- 2. Making a clear business case
- 3. Lack of executive support
- 4. Understanding where or how to start
- 5. Other

The MOST important strategic goal of digitalization is to:

- 1. Drive innovation
- 2. Align operations and business strategy
- 3. Optimize workforce
- 4. Improve supply chain management
- 5. Other

The most important business OUTCOME of digitalization will be to:

- 1. Mitigate risk
- 2. Streamline operational costs
- 3. Enable new business models
- 4. Uncovering latent ROI through collaboration
- 5. Improving ability to produce predictable outcomes

To enable digitalization, the MOST important capability of the PI System is:

- 1. Data integration & democratization
- 2. Easy connections to business tools
- 3. High fidelity, trusted data
- 4. Information available on mobile devices
- 5. It will not be important

Survey Result Summary

- Executive digitalization vision
- Challenges to digitalization adoption
- Important strategic goals of digitalization
- Desired business outcomes of digitalization
- Most important PI System Capabilities

Transportation & Supply Chain 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

This is NOT an avenue for sales presentations or marketing



Want to opt in?

https://pisquare.osisoft.com/groups/transportation

Or contact jsirois@osisoft.com



Have questions?

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



감사합니다

Danke

Gracias

谢谢

Merci

Thank You

ありがとう

Спасибо

Obrigado



USERS CONFERENCE 2016 April 4-8, 2016 | San Francisco

TRANSFORM YOUR WORLD