

PI System 101: The Basics for Beginners

Presented by **John Daniels & Craig Morrison**

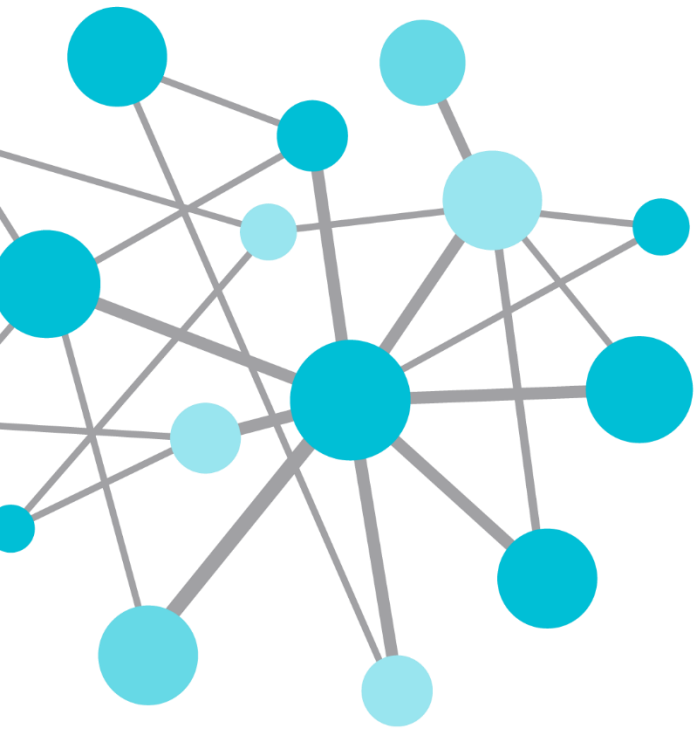


OSIsoft.

USERS 2014 CONFERENCE

The **Power** of **Data**

DECISION READY IN REAL-TIME



OSIssoft – who we are and what are we all about

OSIsoft is in many industries



Power & Utilities

OSIsoft is ranked **1st** in the power industry



Oil & Gas

100% of the global Top 10 producers



Chemicals & Petrochemicals

40 of top 50 Chemical Companies



Materials, Mines, Metals & Metallurgy

Installed in the world's **largest** mining companies



Pharmaceuticals, Food & Life Sciences

9 of the Top 10 pharmaceuticals



Pulp & Paper

400 sites from worldwide leaders



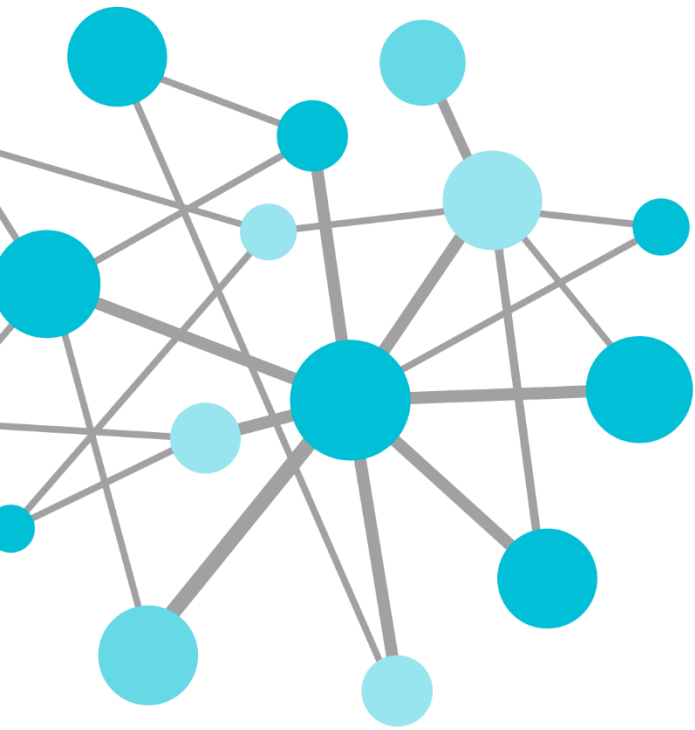
Critical Facilities, Data Centers & IT

Innovative uses to monitor complex IT environments



Developing Markets

Health care, Machine to Machine,
Automotive, Semi Conductors



What is the PI System?

Where do I start?

What are your data challenges?



PUMPS



MOTORS



ACTUATORS



10101
00110
10011

My process is like a baby – I need to watch its every move

Keep the Process Healthy

I need to combine data from 3 sources

Report on data quickly

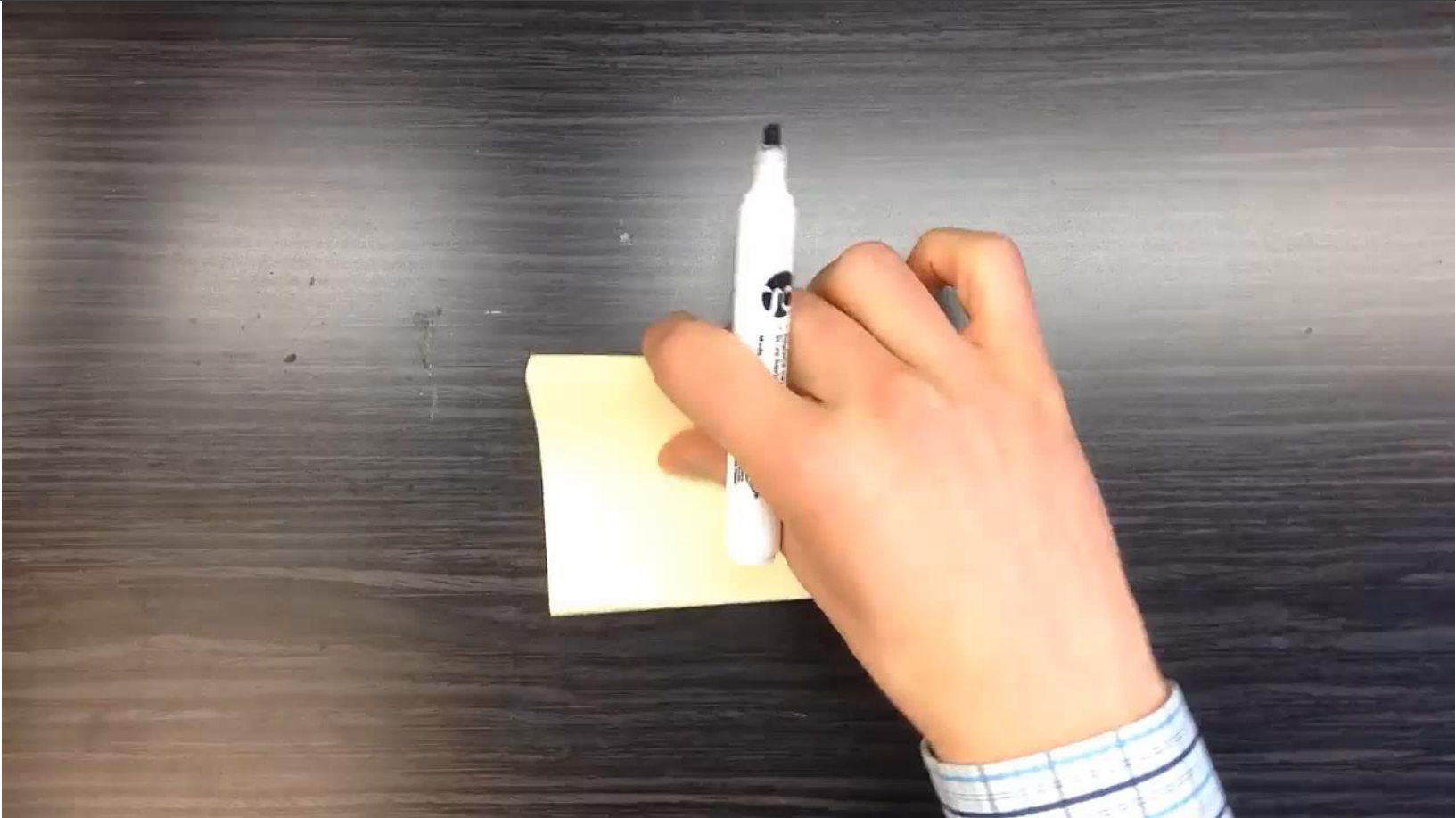
The turbine is not working – what's the problem?

Avoid breakdowns

I need to know the moment it goes out of tune



PI System as an Infrastructure



Let's get you ready for the UC!

How might you see the PI System in **a real plant environment?**

How do the PI System **components fit together?**



DEMO

Data Infrastructure connects



PUMPS



MOTORS



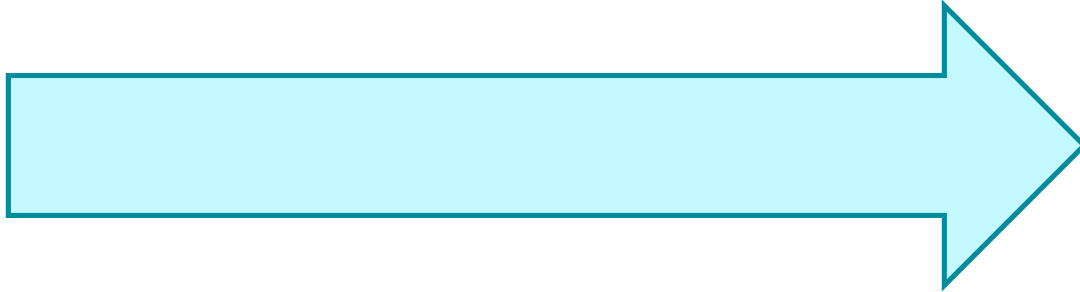
ACTUATORS



10101
00110
10011

Wherever your data **starts**

to Wherever your data **needs to go**



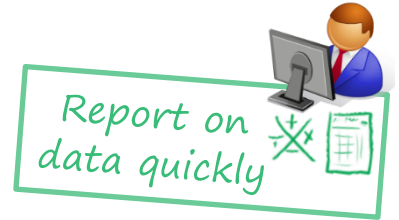
How do the **PI System** components form an **Infrastructure**?



Real Time
Troubleshooting



Keep the
Process Healthy



Report on
data quickly



Avoid
breakdowns

PI System

Data Infrastructure

'The pump is down - what's happening?'

PI Interfaces

OPC

Modbus

Text Files

Databases

and many more...

PI Server

PI Data
Archive

PI AF

PI Notifications
PI Event Frames
Asset-based
Analytics

PI User Tools

PI Coresight
PI WebParts
PI ProcessBook
PI DataLink

3rd Party:
Custom Apps
Partner Apps
BI Integration
and more...

Machine
Friendly :]

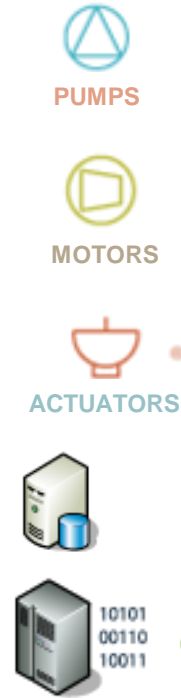
Human
Friendly :)

Real Time
Troubleshooting

Keep the
Process Healthy

Report on
data quickly

Avoid
breakdowns





Now that I know today's PI System,

**What should I do
at the **Users
Conference?****



OSIsoft. USERS CONFERENCE 2014

The Power of Data

DECISION READY IN REAL-TIME



OSIsoft. USERS CONFERENCE 2014

The Power of Data

DECISION READY IN REAL-TIME



Day 1



The f

Unle

Inform

8:0

9:0

9:0

9:0

10:0

10:0

11:0

Day 2 – September 25, Thursday



[Click here to download the full agenda](#)

The Power of Connection - Bridging the data divide. Connecting people, systems and information across the entire value chain

Unleash Your Infrastructure - Set your information infrastructure free. Expand your boundaries of what your data can do

Information on the Spot - Access, visualize and leverage information across the enterprise on the spot wherever you are, when you need it

8:00 - 18:00	Registration			
	OSIsoft Track 1	OSIsoft Track 2	Track 3	Track 4
9:00 - 9:30	PI Coresight 2014: Put PI ProcessBook in Your Pocket	PI Server 2014: Advance Your Investment in the PI Infrastructure	Improving Real-time and Spatial Decision Making by Combining the PI System with Esri ArcGIS DONG Energy	Value of the PI System Infrastructure at INEOS INEOS Köln GmbH
9:40 - 10:10	Intelligent PI Connectors: Raise the IQ of Your Data Sources		Wind Energy Management System: Powered by the PI System Infrastructure EDP Renewables	Enabling a Resilient Water Supply System with the PI System Infrastructure United Utilities
10:20 - 10:50	The PI System and Hadoop: Unleash the Power of Big Data	PI Developer Platform: Evolution of the OSIsoft Developer Community And What You Need To Know	Customer Talk #15 TBD	Integrating PI System and Esri ArcGIS to Improve Situational Awareness Brabant Water
10:50 - 11:20	BREAK	BREAK	BREAK	BREAK

- User Talks
- OSIsoft Talks
- Expo floor

John Daniels

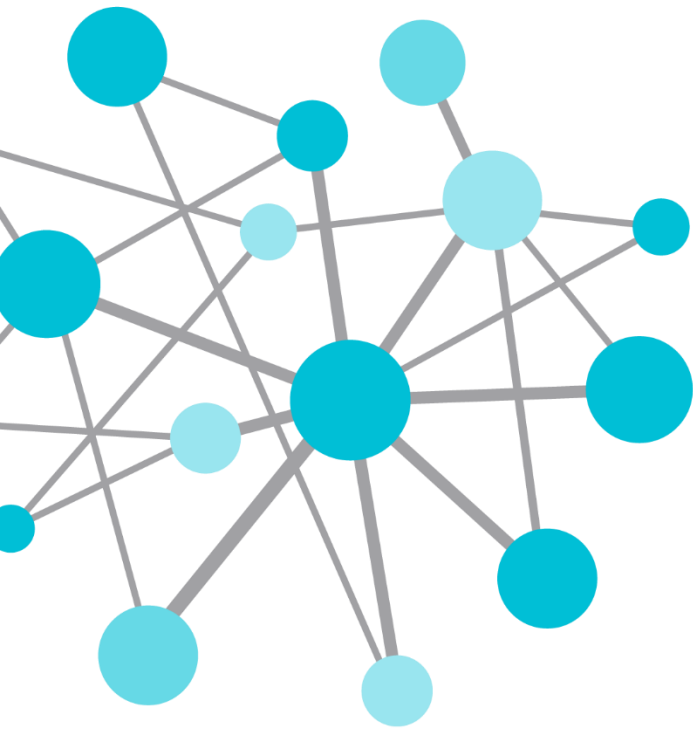
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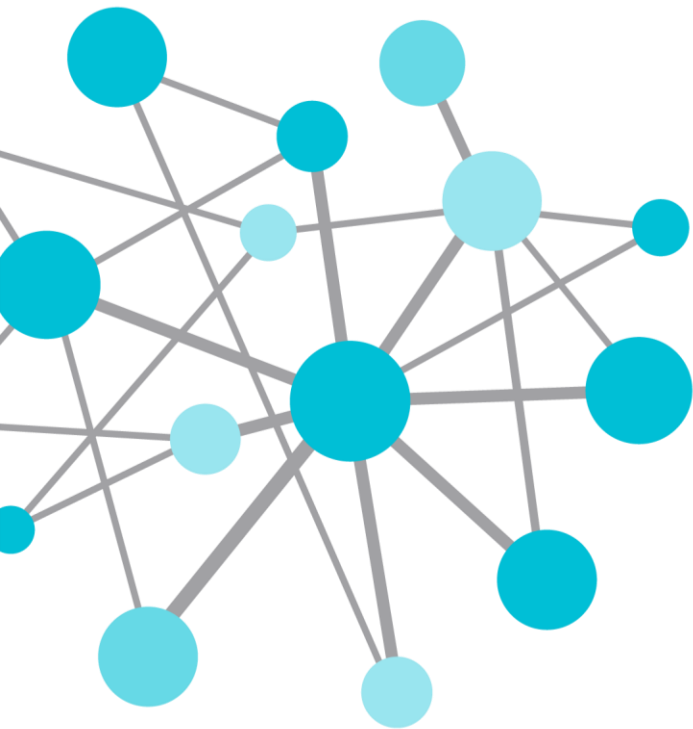


Questions

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the **microphone**
before asking
your questions



State your
**name &
company**



THANK
YOU

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