



# PI 101: The Basics for Beginners

Presented by **Stuart Collins** – Value Marketing Manager  
**Camille Metzinger** – eLearning Specialist



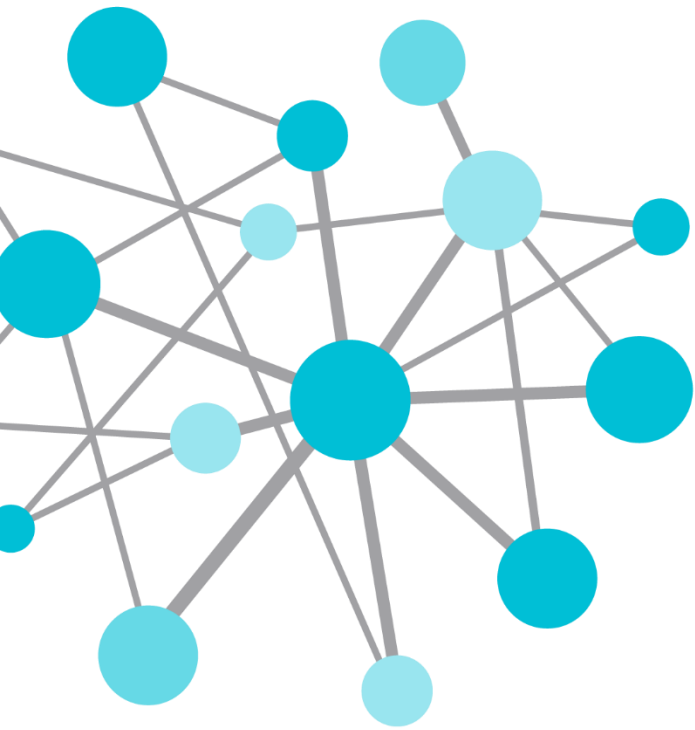
OSIsoft.

# 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



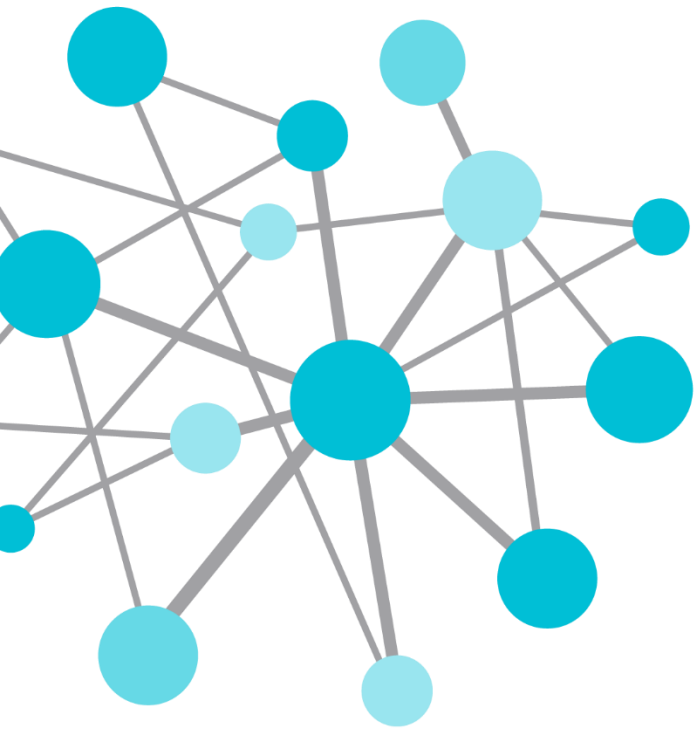
## Critical Facilities, Data Centers & IT

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

Real Time Troubleshooting

# PI 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

# Demo Points

The PI System has many capabilities

Be sure to collect all the data

# Data Infrastructure connects



PUMPS



MOTORS



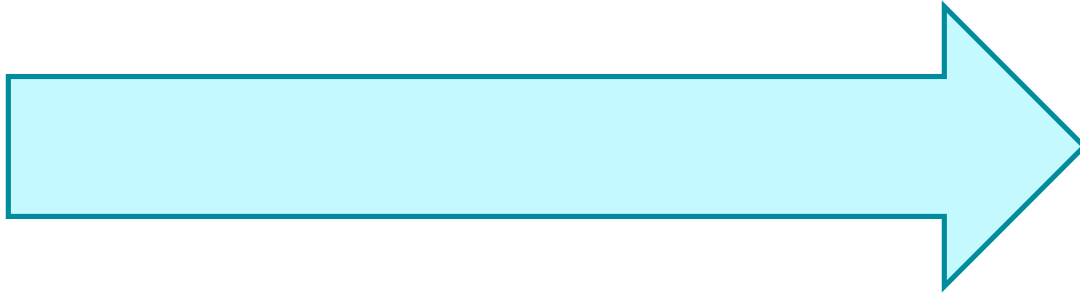
ACTUATORS



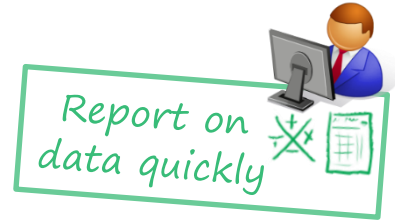
10101  
00110  
10011

Wherever your data **starts**

to Wherever your data **needs to go**



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



# PI System

## Data Infrastructure

### 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 :)

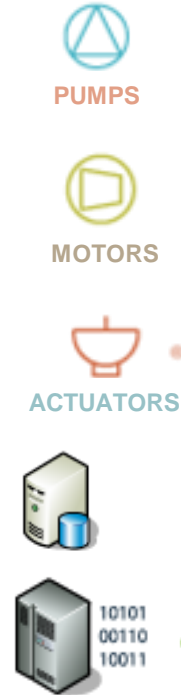
'The pump is down - what's happening?'

Real Time  
Troubleshooting

Keep the  
Process Healthy

Report on  
data quickly

Avoid  
breakdowns





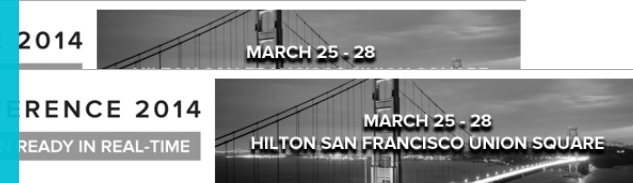
Now that I know today's PI System,

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

# Attend User Talks!

*After all, its called the OSIsoft USERS Conference*

What have your peers done  
that you could do?



**OSIsoft. USERS CONFERENCE 2014**  
The Power of Data **READY IN REAL-TIME**

MARCH 25 - 28  
HILTON SAN FRANCISCO UNION SQUARE

Bios   Logistics ▼   Sponsors/ Exhibitors   Contact   **REGISTER NOW**

**Day 2 – Wednesday, March 26**

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

**Product & Partner Expo**  
7:30 AM - 2:30 PM

Track 2 (Continental 1-4)	Track 3 (Imperial)	Track 4 (Plaza)
	Experience with PI Cloud Connect For JV Data Sharing <i>Hess Corp &amp; Industrial Evolution</i>	TBD
	<b>BREAK</b>	<b>BREAK</b>
	Implementation of PI System as Tool for Generating Operations Reports <i>Pacific Rubiales Energy</i>	CPMS Environmental Monitoring at Natural Gas Transmission Facilities <i>Southern California Gas Company</i>
<b>BREAK</b>	<b>BREAK</b>	<b>BREAK</b>
	Estrategia de Ventanas Operativas en PEMEX (Strategy for Operating Windows at PEMEX) <i>PEMEX</i>	Using PI System to Aggregate, Analyze, and Visualize Data <i>Washington River Protection Solutions</i>
<b>BREAK</b>	<b>BREAK</b>	<b>BREAK</b>

Product &  
Partner Expo

**Day 2:**  
**7:30a – 2:30p**

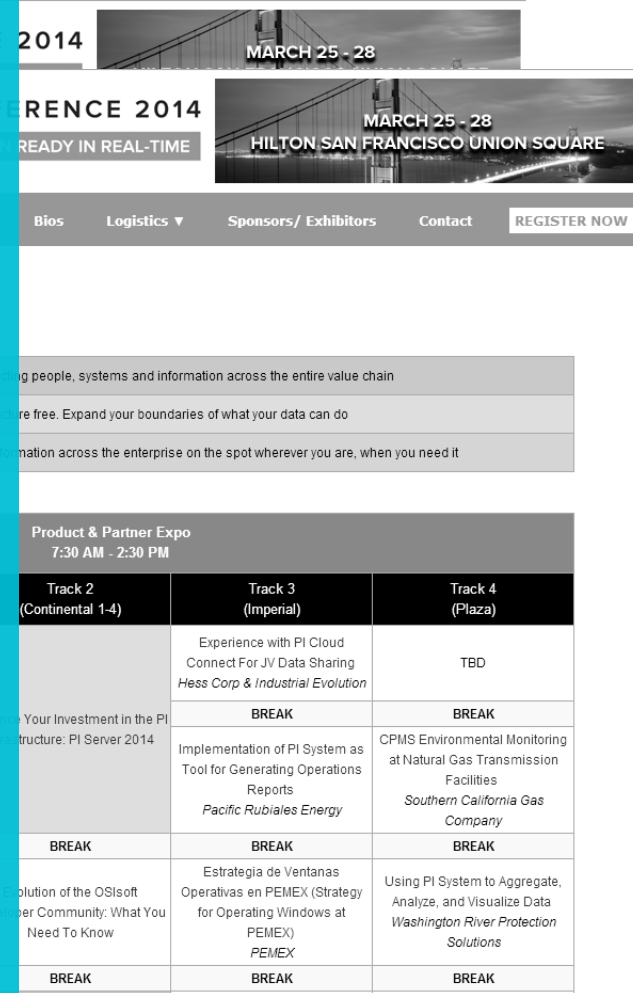
## Visit Partner Booths

**Partners provide expertise to  
build what you imagine**

# Attend OSIsoft Talks!

- The Power of Connection
- Unleash Your Infrastructure
- Information on the Spot

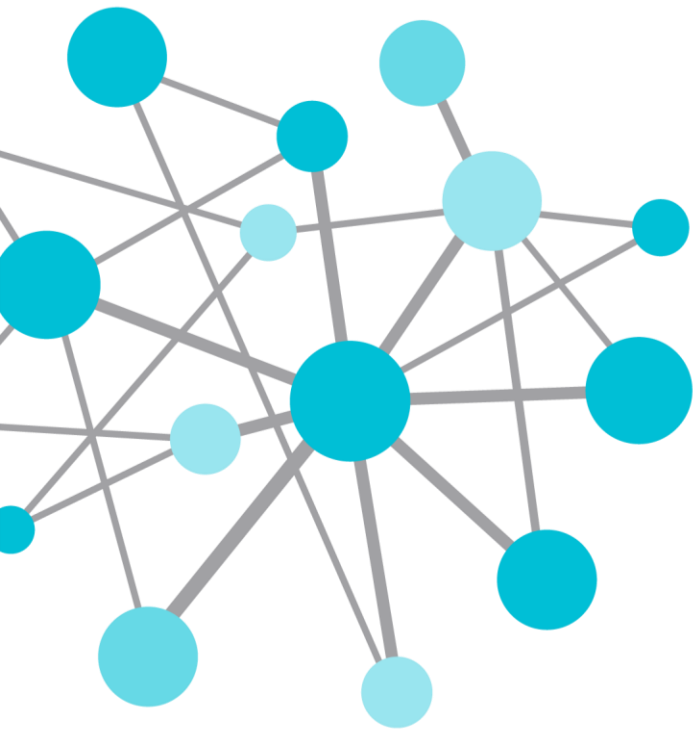
## What could you do with the newest tools?



The image shows a screenshot of the OSIsoft Users Conference 2014 website. The banner at the top features a bridge and the text "OSIsoft. USERS CONFERENCE 2014", "MARCH 25 - 28", and "HILTON SAN FRANCISCO UNION SQUARE". Below the banner is a navigation bar with links: "Bios", "Logistics", "Sponsors/ Exhibitors", "Contact", and a "REGISTER NOW" button. The main content area displays a schedule for "Day 2 - Wednesday, March 26". It includes a "Product & Partner Expo" from 7:30 AM to 2:30 PM, followed by a table of sessions. The table has three columns: "Track 2 (Continental 1-4)", "Track 3 (Imperial)", and "Track 4 (Plaza)".

Track 2 (Continental 1-4)	Track 3 (Imperial)	Track 4 (Plaza)
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<b>BREAK</b>	<b>BREAK</b>	<b>BREAK</b>
Evolution of the OSIsoft Developer Community: What You Need To Know	Estrategia de Ventanas Operativas en PEMEX (Strategy for Operating Windows at PEMEX) <i>PEMEX</i>	Using PI System to Aggregate, Analyze, and Visualize Data <i>Washington River Protection Solutions</i>
<b>BREAK</b>	<b>BREAK</b>	<b>BREAK</b>





THANK  
YOU

Brought to you by  **OSIsoft.**

**Stuart Collins**

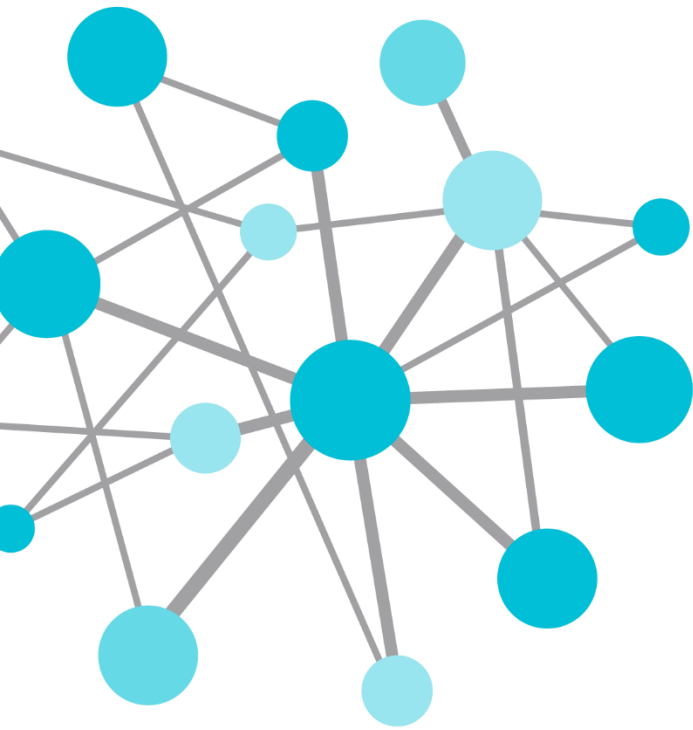
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# Discover More: OSIsoft Learning Channel on YouTube

[www.youtube.com/OSIsoftLearning](http://www.youtube.com/OSIsoftLearning)

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