The Role of the PI System in IIoT





Our World Is Digitally Transforming



The Opportunity: Top Digital Companies vs. Competition

Revenue Growth

Profit

Shareholder Returns

5X

Their rivals

8X

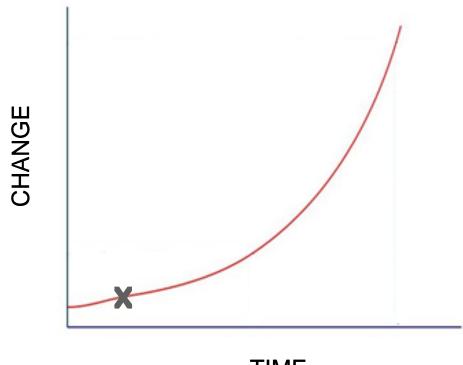
Their rivals

2X

Their rivals

McKinsey and Company-McKinsey Digital Quotient, Capital IQ

Change is the only constant



TIME

Data-driven Transformations via the PI System

Asset Health Productivity Quality **Energy** Safety & Regulatory Performance **Security** PETRONAS janssen **☆** ALCOA Maynilad Industrial Eliminated Fliminated Recovering Reached Saved \$20M **Demand** 1000+ paper 5 unplanned \$3.3 million in 640M liters per year by documents via **Response** and shutdowns in of treated water annual energy smarter Smart digital lifecycle savings first year maintenance Manufacturing tracking

IIoT Digital Transformation Is Happening Today



1.5 Billion Tags

Sensors

Sites



19,000 Sites

Enterprises



160+ Enterprise Agreements Community



70+ Connected Services Agreements

The Role of IIoT within Industrial Operations

Traditional Operations



















Connect

Store

Structure

Analyze

Model Implement

Automate

IIoT Enabled Operations





Connect Gateway



The Role of the PI System in IIoT

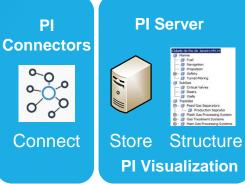
Traditional Operations



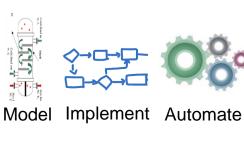


System









IIoT Enabled Operations



Connect/ Gateway





Two Use Cases for "New" IoT



Monitor what you couldn't



Add insight around existing systems



Use Case: Connect What was Physically and/or Economically Not Possible Before



.... Remote and mobile assets

New Sensors Outside of Existing Systems



Automation Solutions

Commercial & Residential Solutions

Industries Expertise & Best Practices

Documents & Drawings

Search... Q



Rosemount[™] 708 Wireless Acoustic Transmitter with Steam Trap Monitor

Featuring ultrasonic acoustic event detection that mounts externally, the Rosemount™ 708 Wireless Acoustic Transmitter with Steam Trap Monitor offers a fast, cost effective installation. This device allows visibility into steam traps and pressure relieve valves (PRVs) by accurately communicating acoustic level and temperature data as well as device data, event status and leak detection via the *Wireless*HART®network. The Steam Trap Monitor software option provides real-time information about steam trap conditions, energy usage and emissions.

BUY NOW > CHAT NOW >

CONTACT US > LEARN ABOUT >

DTE Energy Shortens Customer Outages

With Wireless Sensors & the PI System

Challenge

Determining where to send crews during outages to minimize patrol times and reduce duration of outages.

Solution

Install wireless sensors to help pinpoint fault locations. Leverage OSIsoft technology to collect and share this data across the enterprise.

Results

Prevented spending \$25 million in Capex. Reduced 6.6 million customer outage minutes annually.





Use Case: Upgrade Existing Systems with New Sensors



Advantages of Wireless Sensors vs SCADA

DTE Energy



- Capital Expense
 - SCADA is \$30K per install
 - Wireless is \$5k per installation
- Deployment Time
 - SCADA takes months to deploy
 - Requires a shutdown
 - Significant construction
 - Wireless takes hours to deploy
 - Can be installed on live wires
 - 1 bucket truck and 2 people





OSIsoft. USERS CONFERENCE 2017

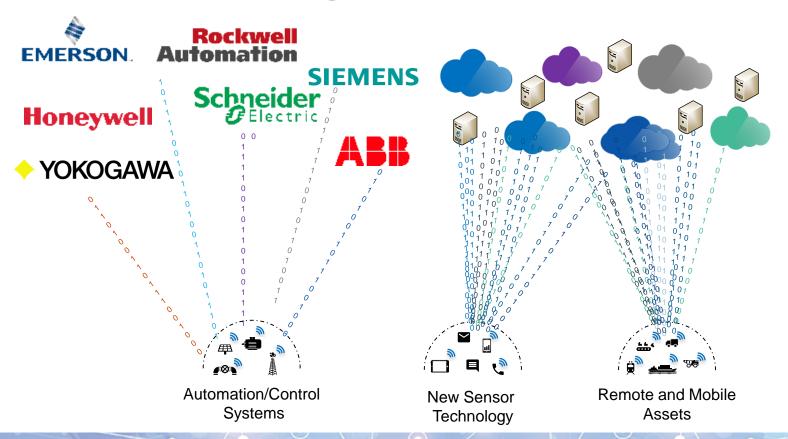




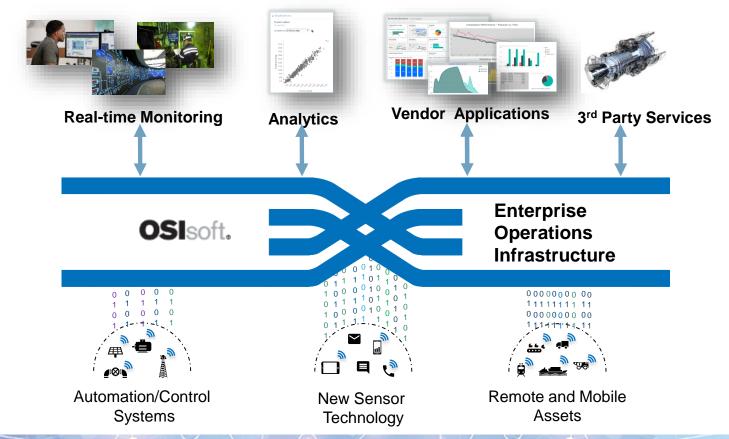




The IIoT Challenge



Strategic Approach to an IIoT Enabled Enterprise





NEW OSIsoft IoT Focus



































20

Red Carpet Incubation Program (RCIP)

"We like the agile
approach of the Red
Carpet Incubation
Program, helping us
unlock value across
Barrick's business."
Ed Humphries, Barrick's Head of
Digital Transformation.

BARRICK







IoT Workbench for Advanced Analytics

Red Carpet Incubation Program Early Adopter Customers









Power & Utilities (Japan)

VATTENFALL

Power & Utilities (Sweden)





Deschutes Brewery Case Study Video



Predict transitions in the brewing process

Shorten production time and improve quality

Apply predictions to *new* brands entering production



Wrap-up

- 1. Transformation = Change
- 2. Leading enterprises are 5-8X more successful
- 3. IIoT provides visibility where there was none
- 4. IIoT provides deeper visibility into existing processes

RED CARPET INCUBATION PROGRAM

감사합니다

谢谢

Merci

Gracias

Thank You

Danke

ありがとう

Спасибо

Obrigado

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OSIsoft



Questions?

Please wait for the microphone before asking your questions

Please state your name & company

Please don't forget to...

Complete the Post Event Survey