The Role of the PI System in IIoT





Our World Is Digitally Transforming



Source: McKinsey, "MGI Digital America" December 2015

We Are Growing More Connected



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"Today, your cell phone has more computer power than all of NASA back in 1969, when it placed two astronauts on the moon."

- Michio Kaku



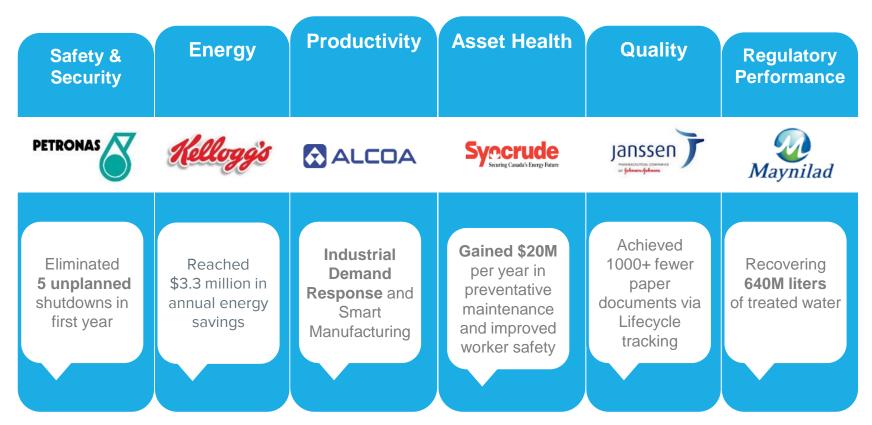
The Digital Opportunity: Top B2B Digital Companies



McKinsey and Company-McKinsey Digital Quotient, Capital IQ



Data-driven Transformations via the PI System



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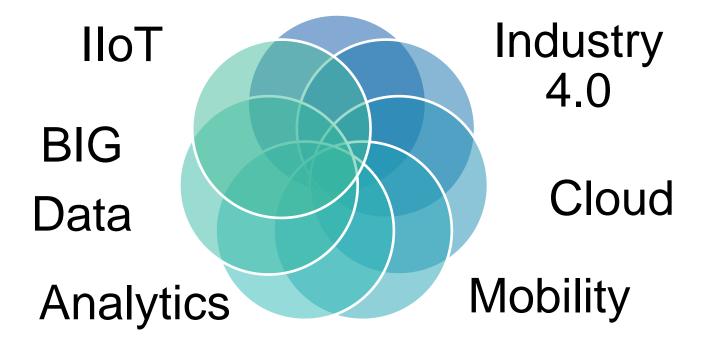


Do You Want to Be Digital Prey or Predator?

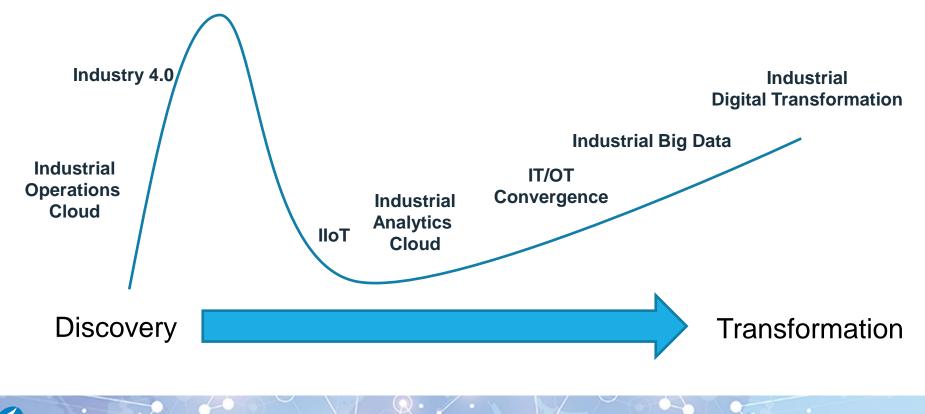
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Your Challenge: Buzzwords

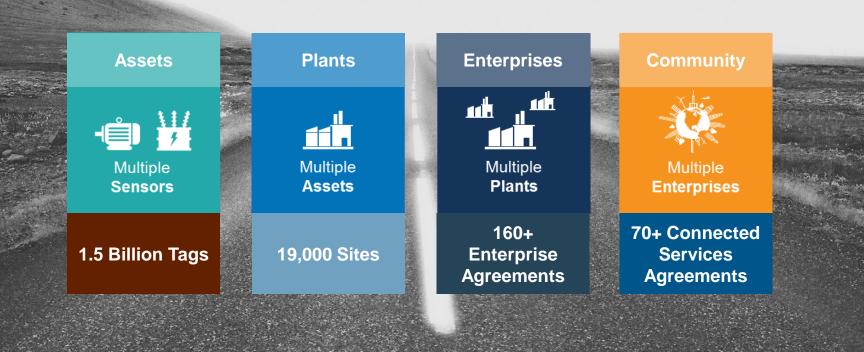


Customer (Hype) Interest Cycle as OSIsoft Sees It



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IIoT Digital Transformation Is Happening Today



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The IIoT Game Changer

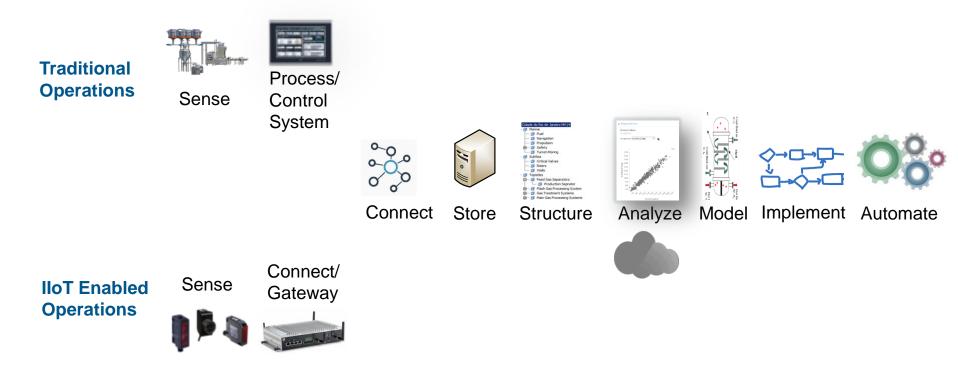
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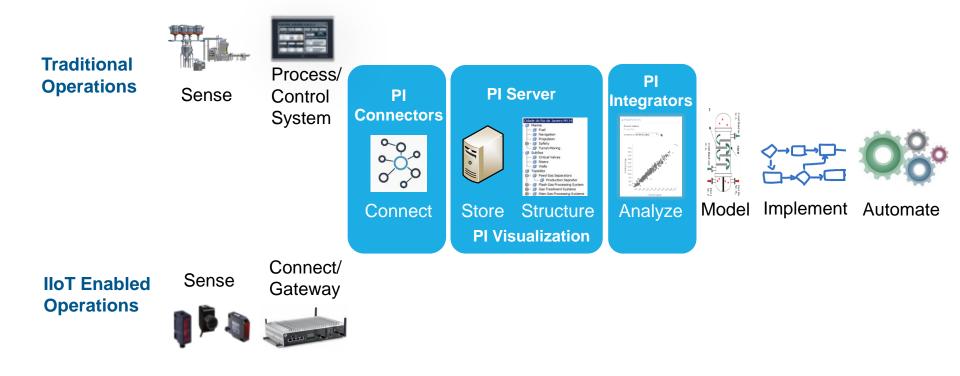
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The Role of IIoT within Industrial Operations





The Role of the PI System in IIoT





Three Use Cases for "New" IoT



Monitor what you couldn't



Integrate new sensor types



Add sensors around existing systems



1) Primary Use Case: Now Connect What was Physically and Economically Not Possible Before



.... Remote and mobile assets





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. Reduce 6.6 million customer outage minutes annually.

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2) Use Case: New Sensors Outside of Existing Systems

EMERSON.

Automation Solutions Commercial & Residential Solutions

Industries Expertise & Best Practices

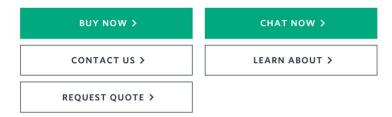
Documents & Drawings

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.



3) Use Case: Upgrade Existing Systems with New Sensors

Advantages of Wireless Sensors vs SCADA

- 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



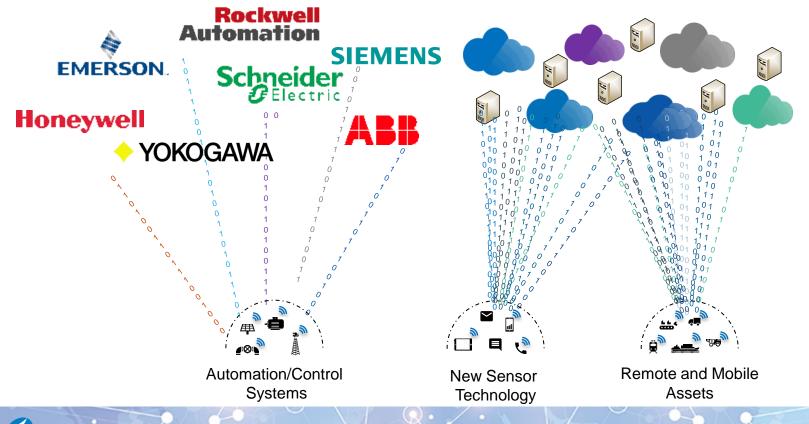


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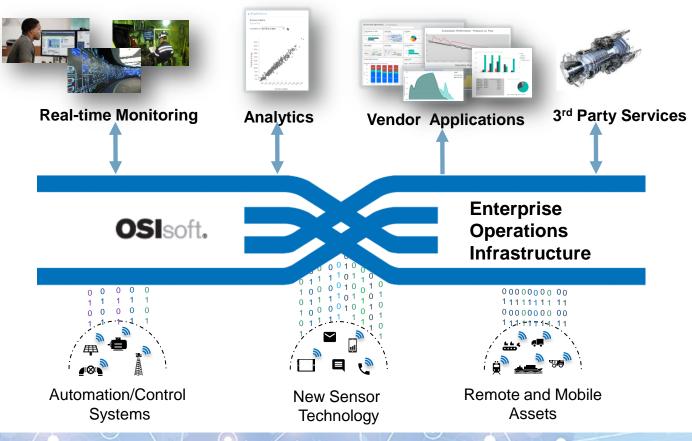


The IIoT Challenge



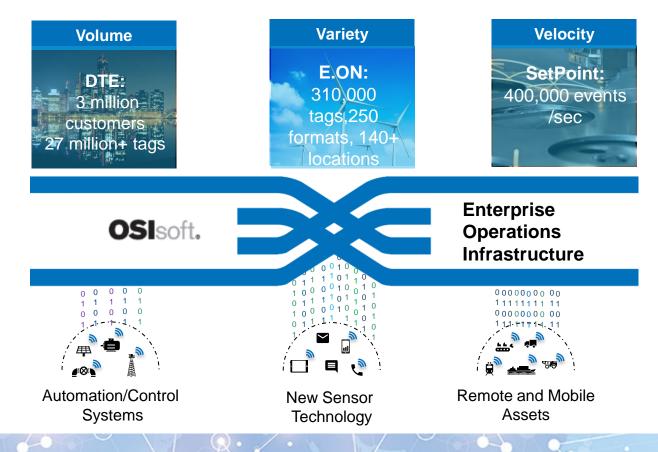
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Strategic Approach to an IIoT Enabled Enterprise



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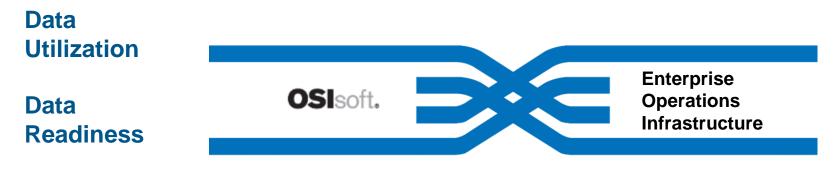
Data Infrastructure: Designed For Today and Tomorrow's IIoT



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Summary: 3 Steps to Strategically Embracing IIoT

Next 3 technical presentations:



Pervasive Data Collection







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Please don't forget to...

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

Please state your name & company

complete the Post Event Survey

