



Our World Is Digitally Transforming

1.2B 1.5B Windows 10 400M 50M **NETFLIX** 13M 110M

Source: McKinsey, "MGI Digital America" December 2015



We Are Getting More Connected





"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

Revenue Growth

Profit

Shareholder Returns

5X

Their rivals

8X

Their rivals

2X

Their rivals

McKinsey and Company-McKinsey Digital Quotient, Capital IQ

Data Driven Transformations

Asset Health Productivity Quality **Energy** Safety & Regulatory Performance Security **PETRONAS ♦** ALCOA janssen Maynilad Industrial 1000+ fewer \$20M per year Fliminated Recovering \$3.3 million in Demand paper in preventative 5 unplanned 640M liters annual energy **Response** and documents via maintenance shutdowns in of treated water Smart Lifecycle savings and improved first year Manufacturing tracking worker safety

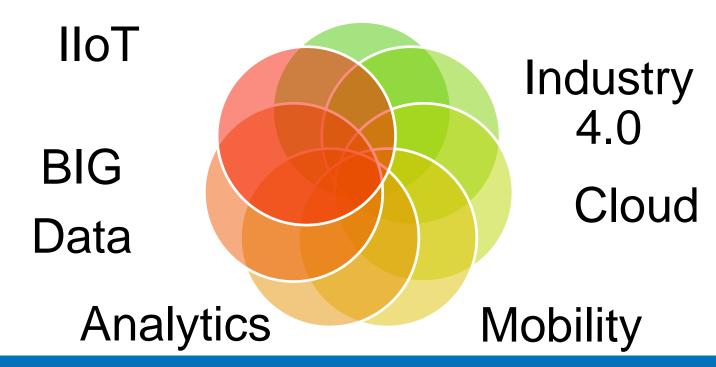






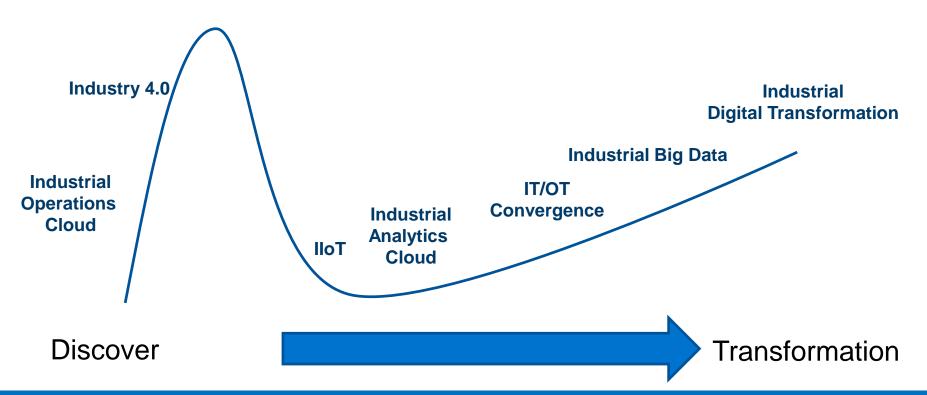
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Your Challenge-Buzz Words





Customer (Hype) Interest Cycle as OSIsoft sees it





IIoT Digital Transformation Is Happening Today





Evergreen CIO Speaks to the Buzz



The IIoT Game Changer



The Role of IIoT within Industrial Operations

Traditional Operations



Process/ Control System



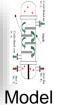
Connect



Store









Automate

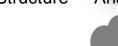
















Implement



The Role of the PI System in IIoT

Traditional Operations

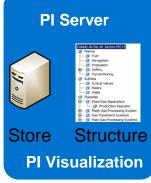


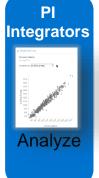
Sense

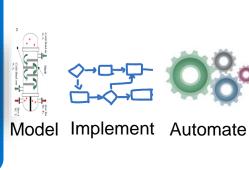
Process/ Control System











IIoT Enabled Operations

Sense

Connect/ Gateway





3 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



Connecting the Supply Chain- Pit to Port



2) Use Case: 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.

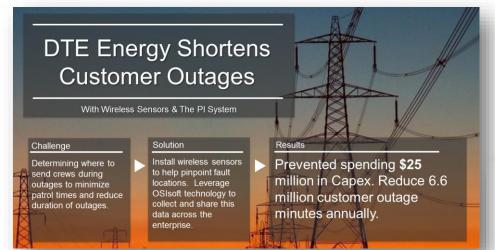
CONTACT US > LEARN ABOUT >

REQUEST QUOTE >



3) Use case: Upgrade existing Systems with new sensors

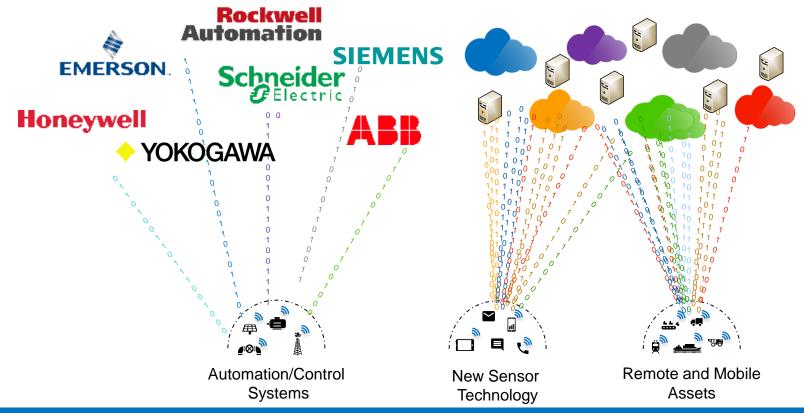
DTE Energy





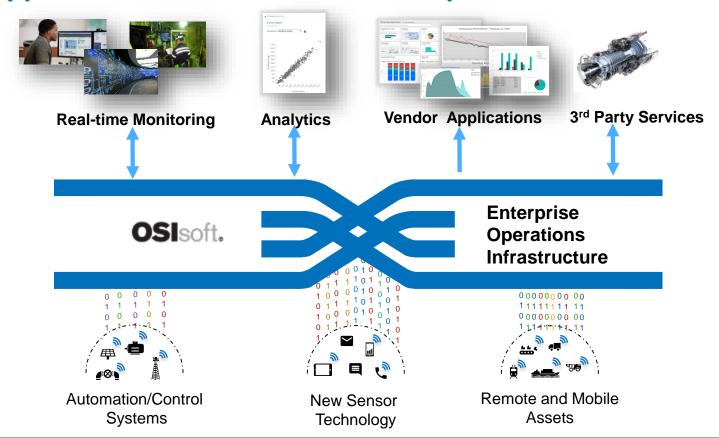
- Capital Expense
 - SCADA is \$30K per install
 - Wireless is \$5k per installation
- Deployment Time
 - SCADA takes months to deploy
 - Requires a shutdown
 - · Significant construction
 - Wireless takes *hours* to deploy
 - · Can be installed on live wires
 - 1 bucket truck and 2 people

The IIoT Challenge





Strategic Approach to an IIoT Enabled Enterprise





Data Infrastructure: Designed For Today, and Tomorrow's IIoT













New Sensor Technology



Enterprise

Operations Infrastructure

Remote and Mobile Assets



Summary: 3 Steps to Strategically Embracing IIoT

...Next 3 technical presentations

- 3 Data
 Utilization
- 2 Data Readiness
- Pervasive Data
 Collection





