# Expanding the value of PI System with IOT

Presented by

Aron Semle - Solutions Management, MFG













# The Industrial IoT



"33% of IoT economic value will come from the "factories" setting."

- McKinsey Global Institute, 2015

"Manufacturing operations is the IoT use case that will see the largest investment."

- IDC, 2017





46%

Evaluating and/or Investing in IoT Pilots

Source: Penton Media 2017

75%

Expect to Invest in IoT in the next 12 months!

Source: LNS Research 2016

of pilot IoT projects met or exceeded expectations

86%

Source: Penton Media 2017

# IoT IS RAPIDLY BEING ADOPTED IN THE FACTORY

#### **Business Outcomes**

**Process** Efficiency

Asset Health

Safety & Security Energy Use

Quality

Regulation

















Application Enablement, Analytics, Augmented Reality, Integrations

















**SMART MACHINES** 



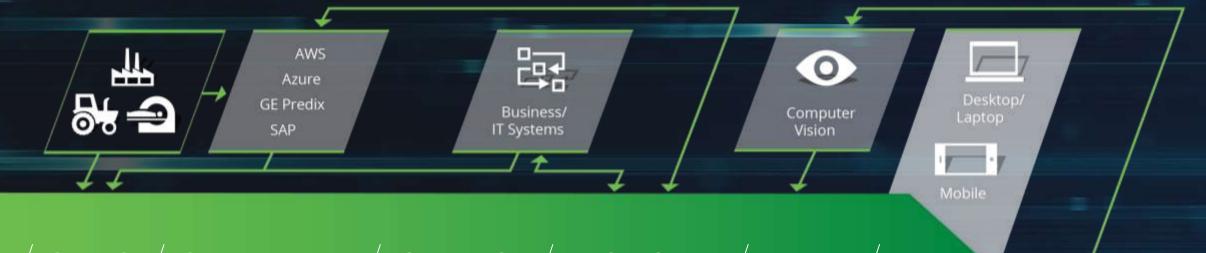




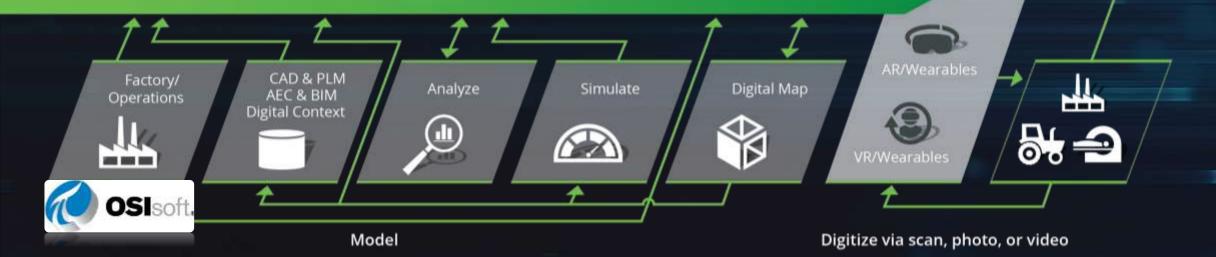


# thingworx<sup>®</sup> platform





SOURCE / CONTEXTUALIZE / SYNTHESIZE / ORCHESTRATE / ENGAGE /



#### FASTER TIME TO MARKET WITH ECOSYSTEM PARTNERS









Asset Health Monitoring





High End Edge Computing





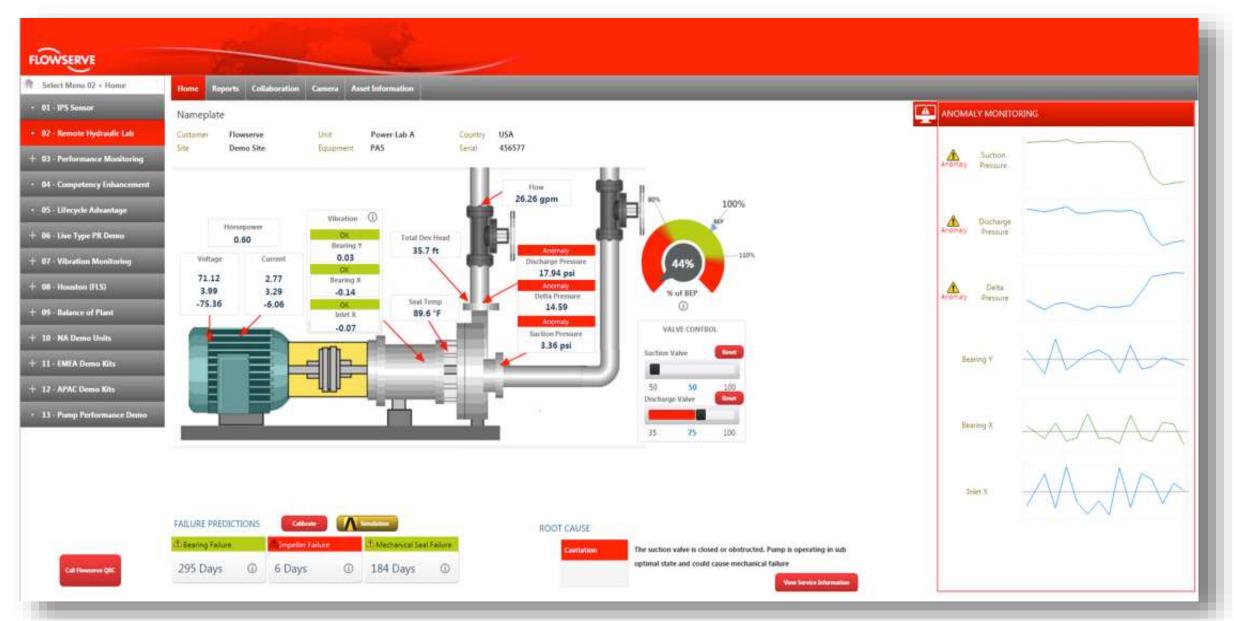
Predictive Analytics





Data Infrastructure

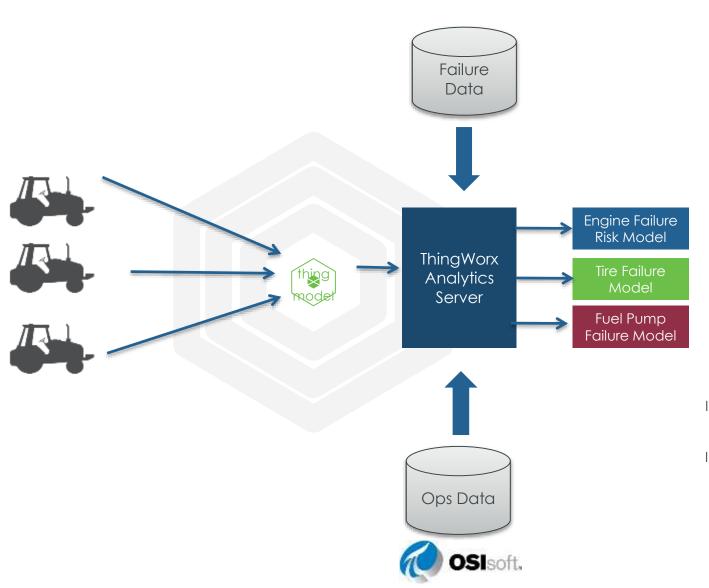
#### PREDICTIVE ANALYTICS APPLICATION

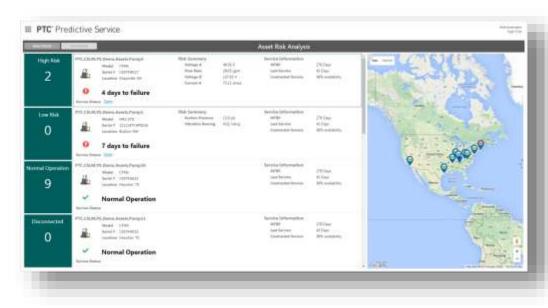


#### #1 RAPID APPLICATIONS



# #2 PREDICTIVE ANALYTICS









32%

13%

6%

ID = 9993



72%

6%

# #3 AUGMENTED REALITY EXPERIENCES



thingworx studio thingworx view

# ENABLING TIMELY DATA DRIVEN DECISIONS



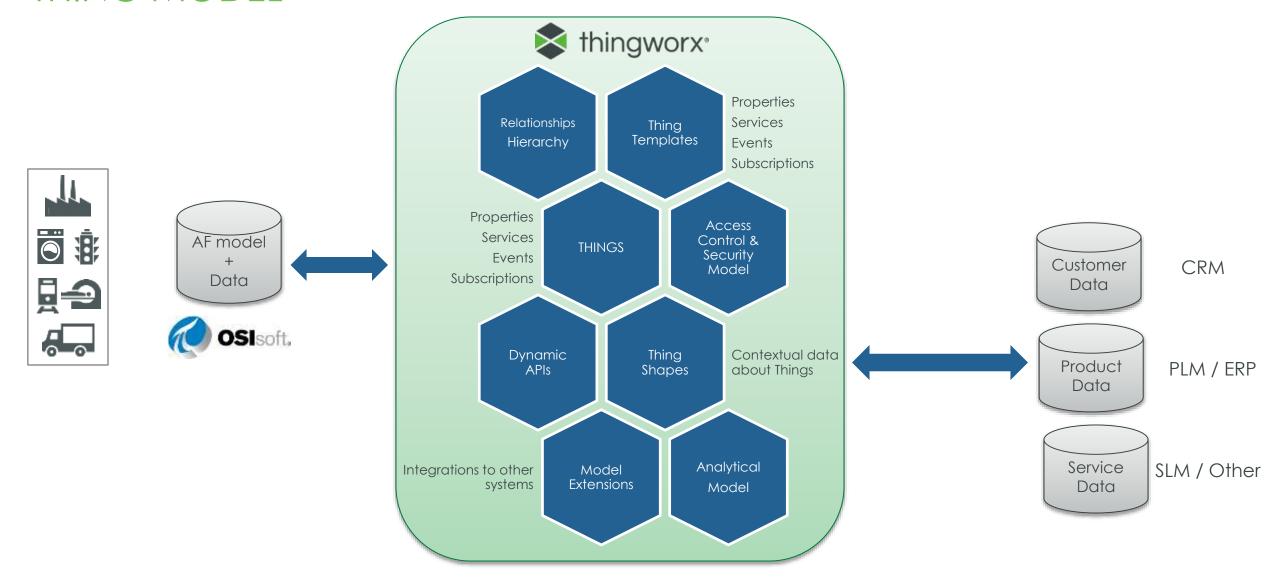


Rapid time to value with 6 weeks IoT sprints



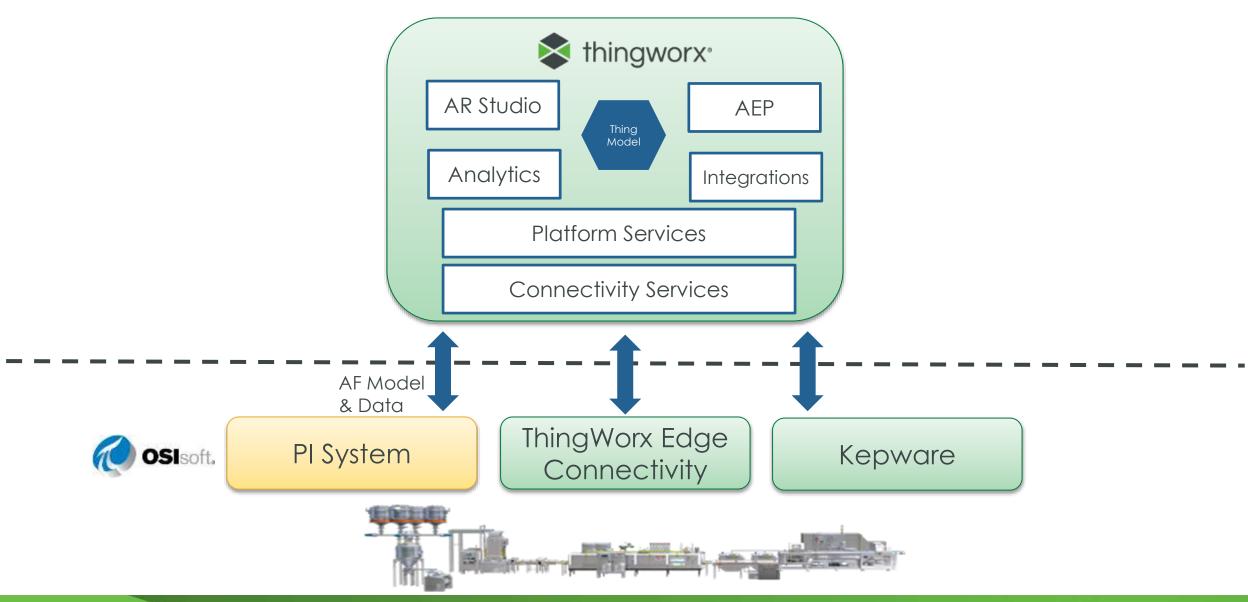


# THING MODEL





# PI SYSTEM INTEGRATION



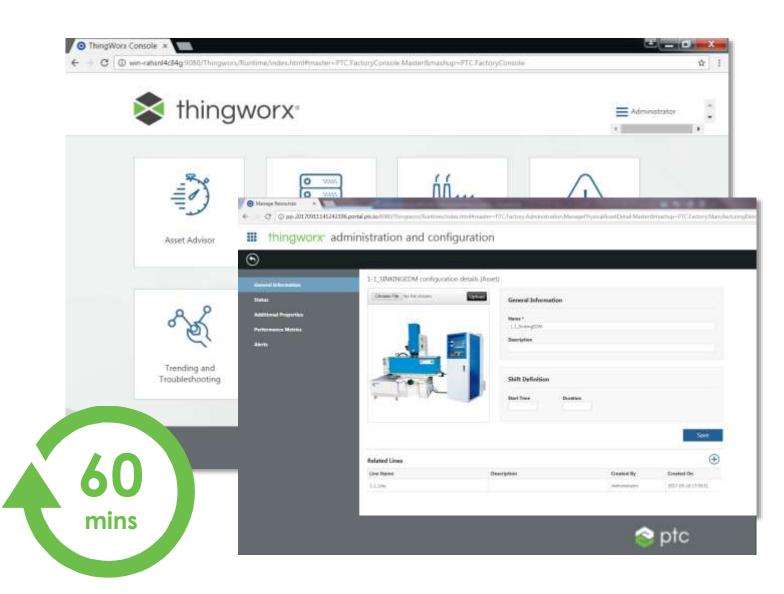
#### STAY TUNED - THINGS ARE GETTING FASTER





#### THINGWORX MANUFACTURING APPS

- ➤ Fast to deploy
- > Fast to configure
- ➤ Role-based insight
- > Flexible to evolve
- ➤ Built on ThingWorx
- ➤ Easy to try and buy



#### THINGWORX MANUFACTURING APPS

Transform your performance by giving your operations teams unprecedented capabilities to see, understand and act in real time. ThingWorx manufacturing apps accelerate your time-to-value and offer unmatched flexibility.

#### **ThingWorx Production Advisor**



Plant Manager



#### **ThingWorx Asset Advisor**



Maintenance



#### ThingWorx Controls Advisor



Controls Engineer





# DEMONSTRATION



# **Contact Information**

# **Aron Semle**

asemle@thingworx.com

Dir. Solutions Management, MFG



감사합니다

Danke

谢谢

Gracias

Thank You

ありがとう

Спасибо

Obrigado

**#OSIsoftUC** 





Merci