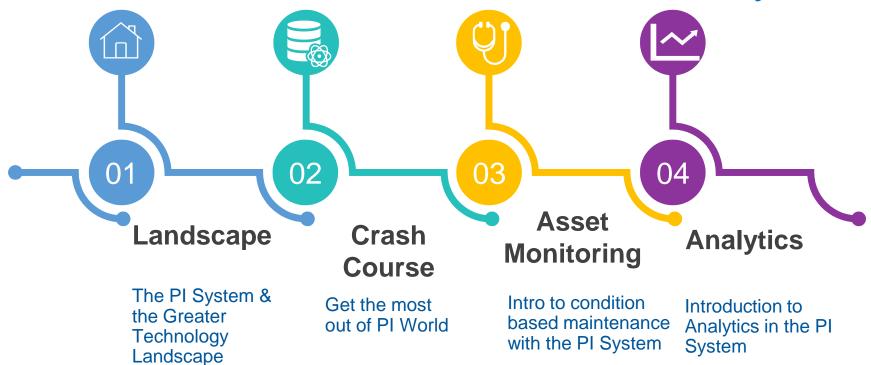
Introduction to Asset Monitoring and Condition-based Maintenance with the PI System

Jeremy Korman – Product Marketing Manager



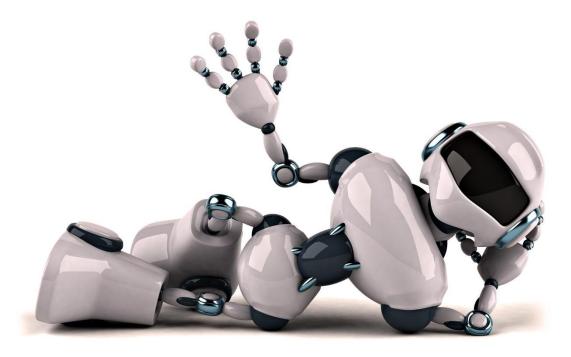


Where are we in our PI Basics Journey

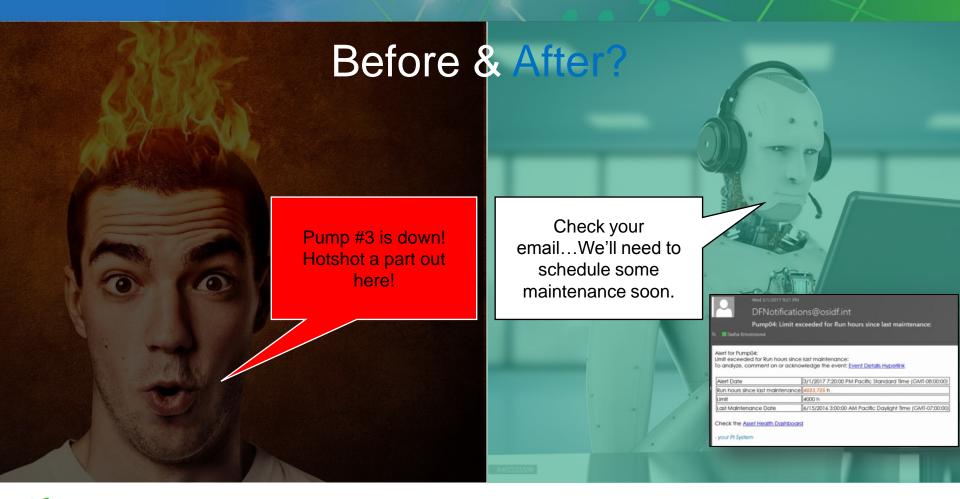




Put your robot to use









Sections We'll Cover



Maintenance Options



2) A Framework for CBM



3) Additional Resources



Maintenance Options



What are our maintenance options?

Reactive

"Break-Fix" Run to failure

Preventative

Calendar-based

Condition Based

Repair based on insight

Predictive

Advanced Pattern Recognition









CBM Is the Goldilocks Zone

Reactive

"Break-Fix" Run to failure

Preventative

Calendar-based

Condition Based

Repair based on insight

Predictive





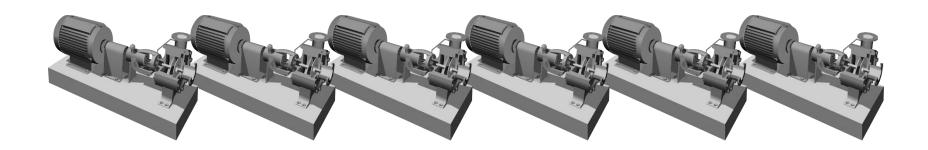




A Framework for CBM



Are all of my pumps healthy today?





5 Steps of CBM

Connect Collect & Store

Assign Context

Execute Condition Logic

Alert and Notify

Visualize



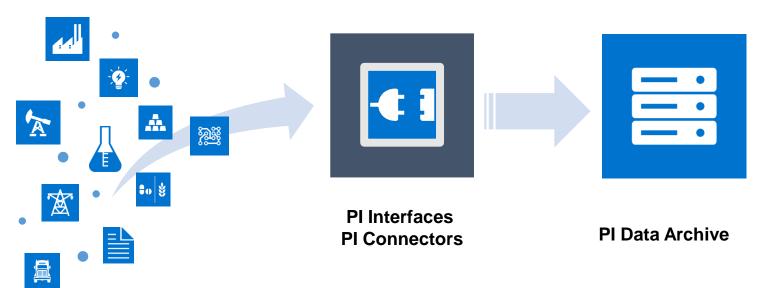














Options to add to data set:

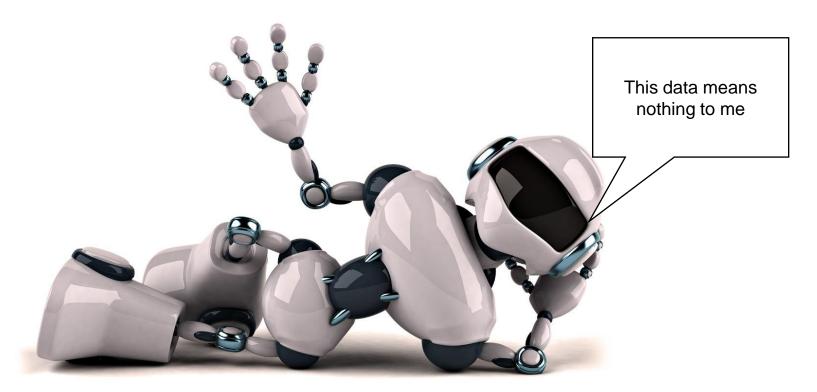
- PI Interfaces & PI Connectors
- Pl Manual Logger





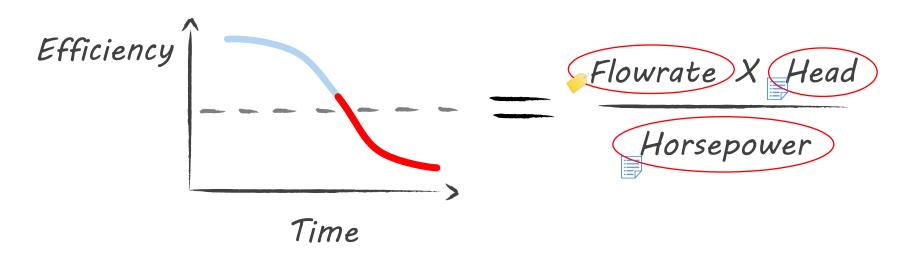


Robot Status Check





Building a Digital Model – Start Small







OPERATIONS

Temperature Pressure Voltage

. . .



UNIFIED DATA

Smarter operation Improved KPIs In-context decisions



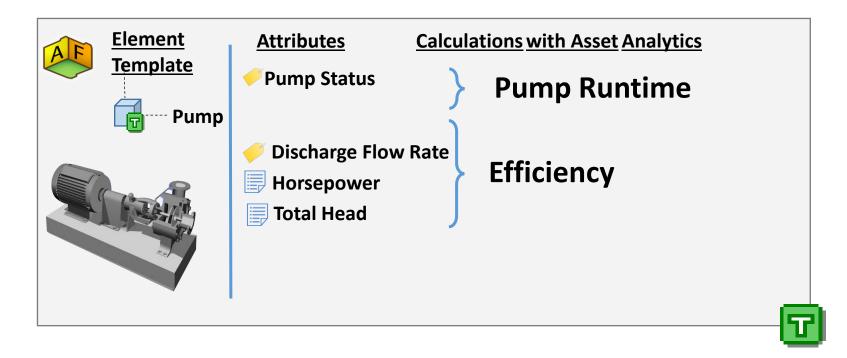
MAINTENANCE

Date of Last Service Motor Horse Power Vibration Analysis

. . .

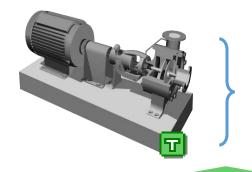


Build a Template





Reuse Your Template



Pump Runtime Efficiency







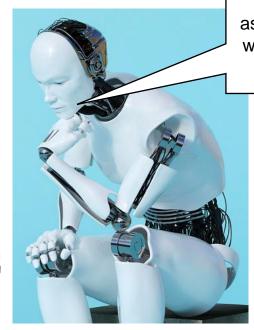








Robot Status Check



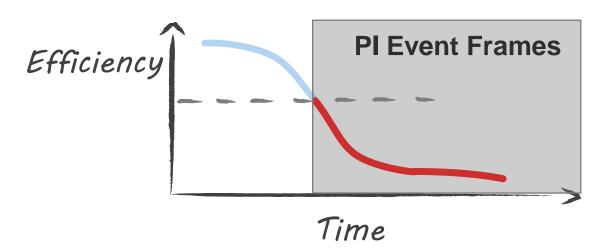
I see a bunch of assets. What do you want me to do about it?



Execute Condition Logic

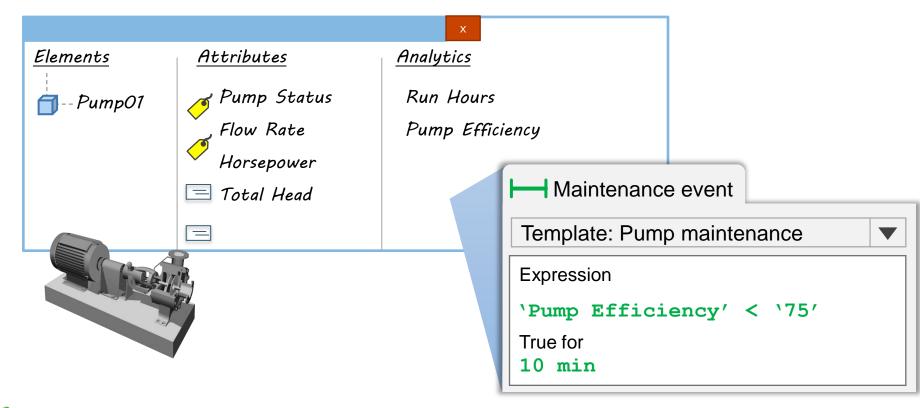
Pump **Efficiency**

< 75%



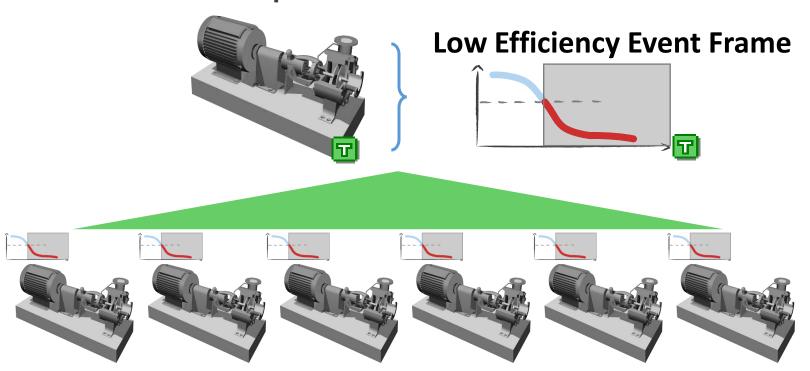


Writing Logic is Simple





Reuse Your Template





Robot Status Check





Connect
Collect & Store

Assign Context

Execute Condition Logic

Alert and Notify

Visualize





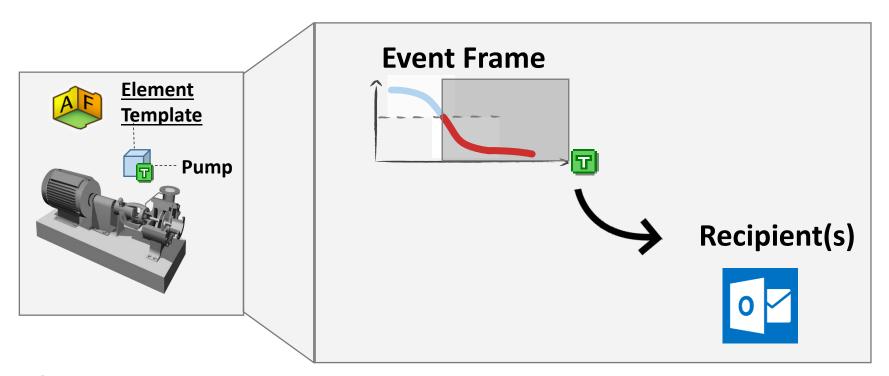






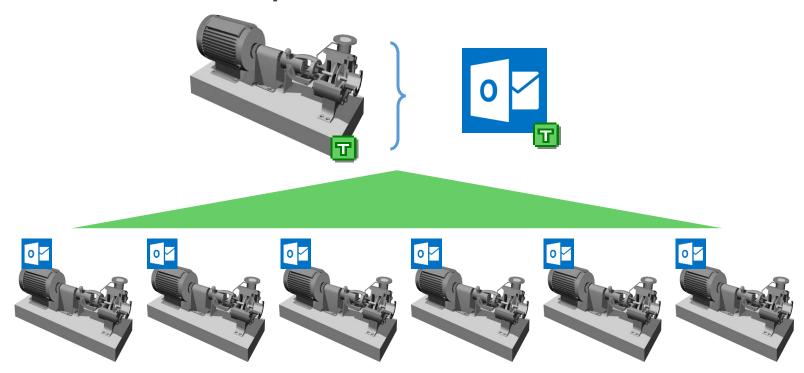
Alert and Notify

PI Notification





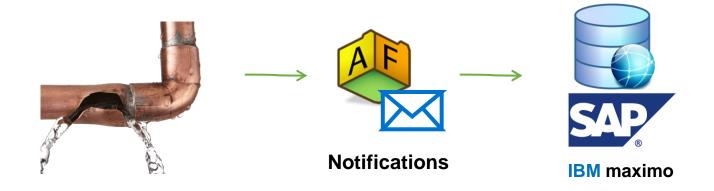
Reuse Your Template





Beyond basics: Notifications to a CMMS

(Computerized Maintenance Management System)



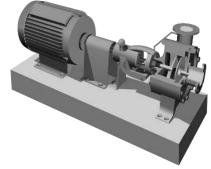


Robot Status Check

Pump #5 is having issues.







5) Visualize

Connect
Collect & Store

Assign Context

Execute Condition Logic

Alert and Notify

Visualize

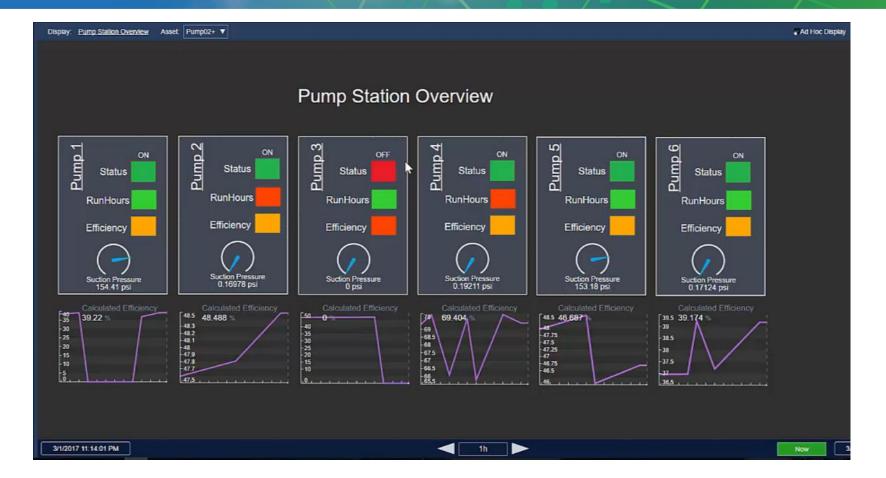




PI Vision

PI DataLink







Robot Status Check



I'll keep an eye on everything!



5 Steps of CBM

Connect Collect & Store

Assign Context

Execute Condition Logic

Alert and Notify

Visualize













Resources to Help you Succeed







All Places > All Things PI - Ask, Discuss, Connect

Asset Based PI Example Kits



A Guidebook to Implementing Condition-Based Maintenance (CBM) Using Real-time Data

A practical guide to getting more value from real-time data by supporting effective asset management strategies



Condition Monitoring
Condition-Based Maintenance

Decision Support

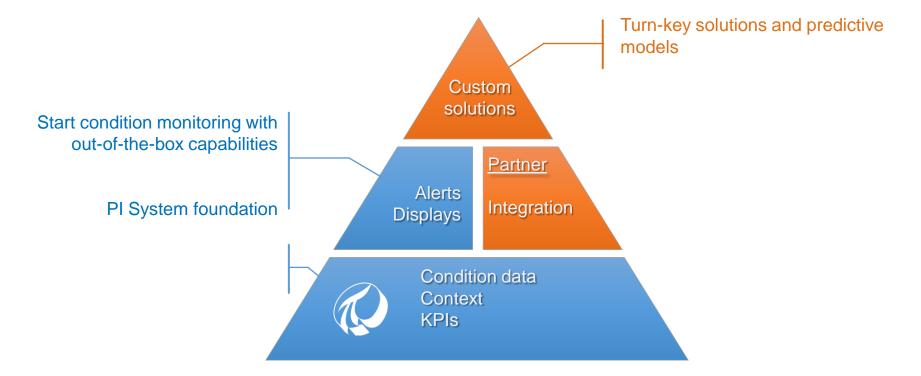
Enterprise Integration

Business Intelligence

eBook



Partners Are Here to Help





Customer Examples



Chemicals



Mining, Metallurgy & Materials



Oil & Gas



Pharmaceutical& Life Science



Pulp & Paper



Power Generation



Transmission & Distribution



Other



Questions?

Please wait for the **microphone**

State your name & company

Please rate this session in the mobile app!





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OSIsoft LLC





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KEA LEBOHA

KÖSZÖNÖM

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OSIsoft.

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ESKERRIK ASKO

ХВАЛА ВАМ

TEŞEKKÜR EDERIM

ДЗЯКУЙ ΕΥΧΑΡΙΣΤΩ GRATIAS TIBI **DANK JE**

AČIŪ SALAMAT MAHALO IĀ 'OE TAKK SKAL DU HA

GRAZZI PAKKA PÉR

PAXMAT CAFA

ありがとうございました
SIPAS JI WERE TERIMA KASIH
UA TSAUG RAU KOJ
ТИ БЛАГОДАРАМ
СИПОС

BARCELONA 2018

ĎAKUJEM

MATUR NUWUN