WORLD CLASS MAINTENANCE



Condition-Based Maintenance (CBM)

Just right, just in time



Agenda

1) Maintenance Options



2) PI System: A Framework for CBM

+ cookbook



3) Open discussion



Many words for similar goal:



Keep assets healthy



...In a cost effective way





Schedule-based maintenance is one of the easiest methods

But 82% of failures

occur at irregular intervals

Source: https://www.arcweb.com/blog/improve-asset-uptime-industrial-iot-analytics



ratts

Schedule-based maintenance is one of the easiest methods

But 82% of failures occur

at irregular intervals

Over-service = Excess costs "We go out & the asset is pristine"

Replace too early = Purchases

Miss failure = Threat

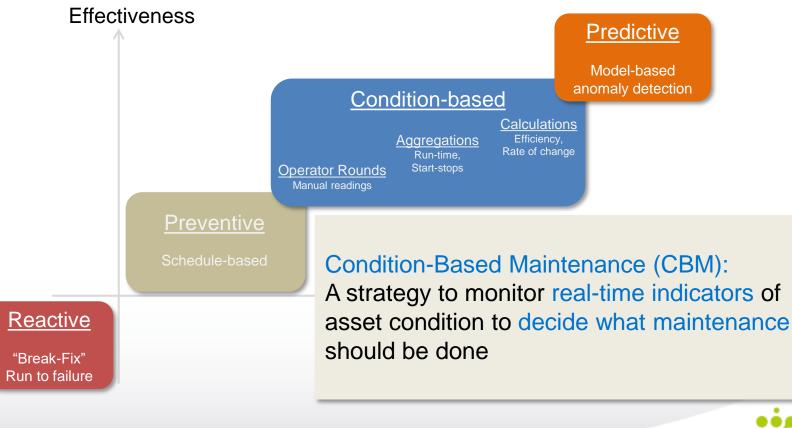
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Condition Based Maintenance:

An improved maintenance strategy





Before and After



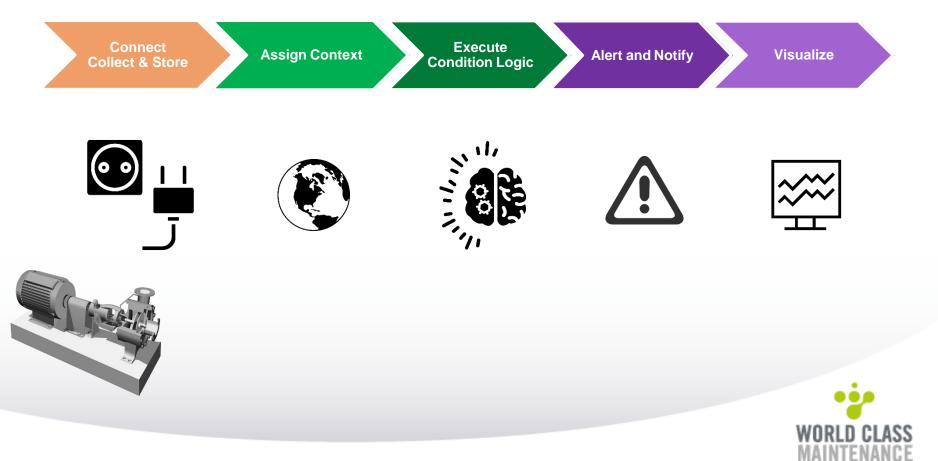






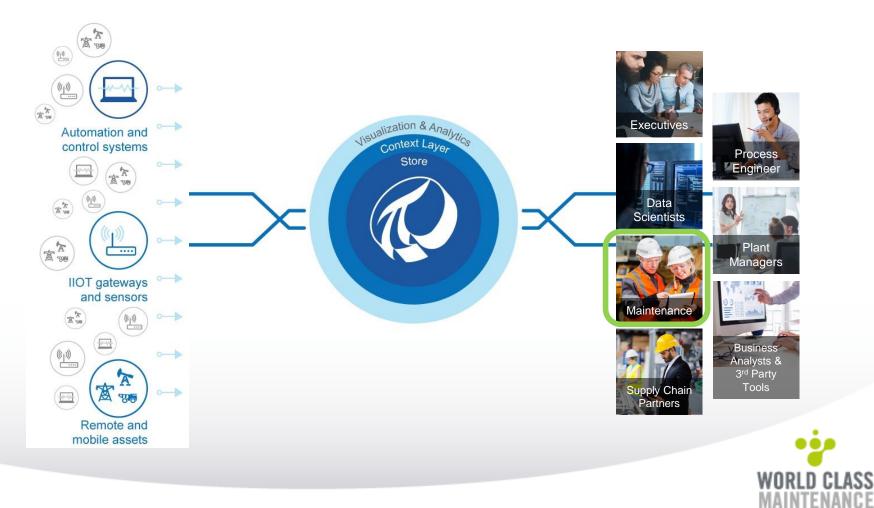
5 steps of CBM

Action



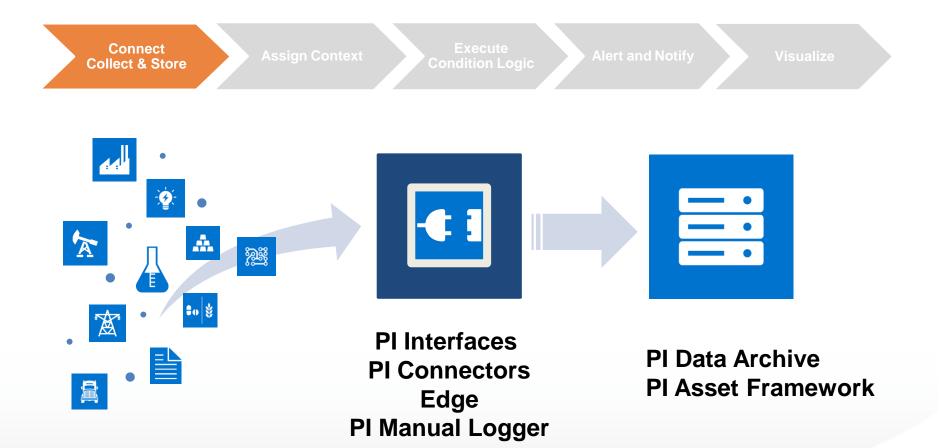


OSIsoft – PI System Data Infrastructure



Get the data..



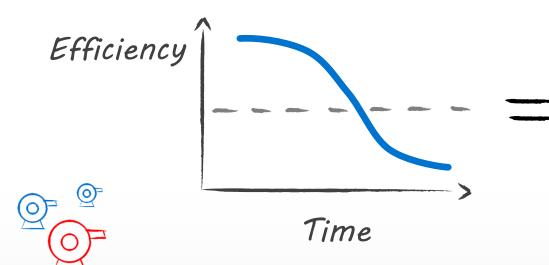




Build a Digital Model Start small







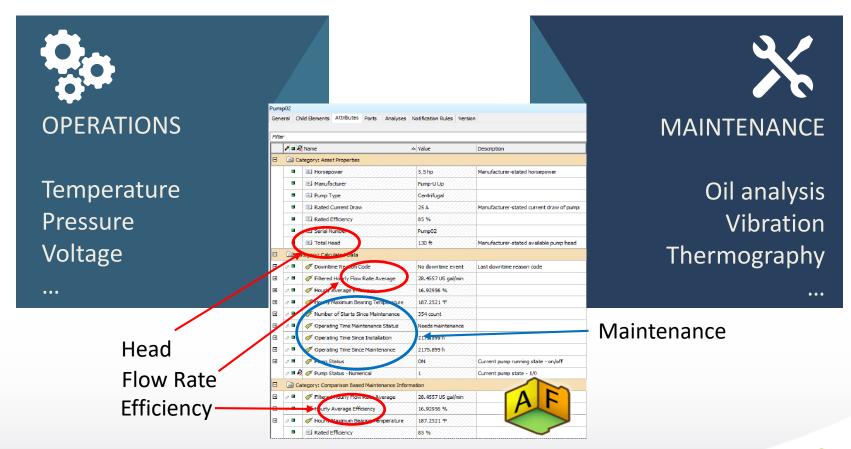
Flowrate X Head Horsepower

Get these values

- Measurements
- Look-up tables



Traditionally, operations & maintenance data are separate



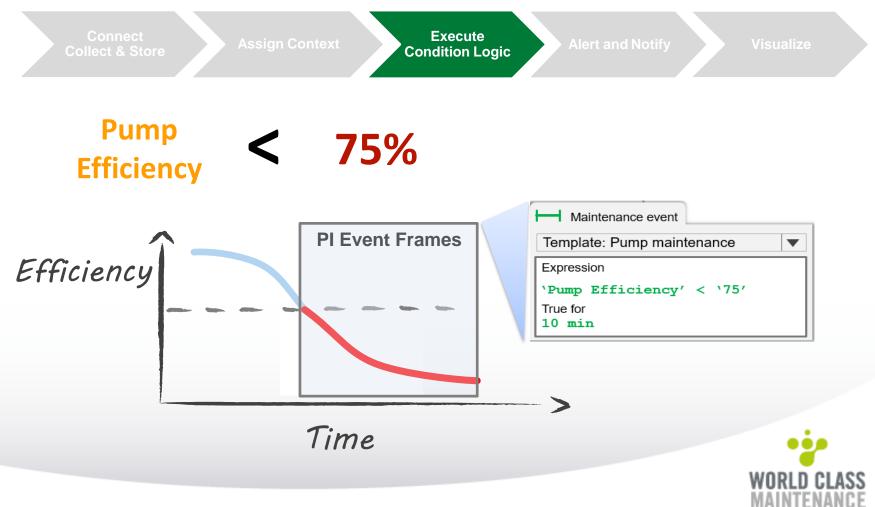
Increase value by bringing data together



SIsoft.

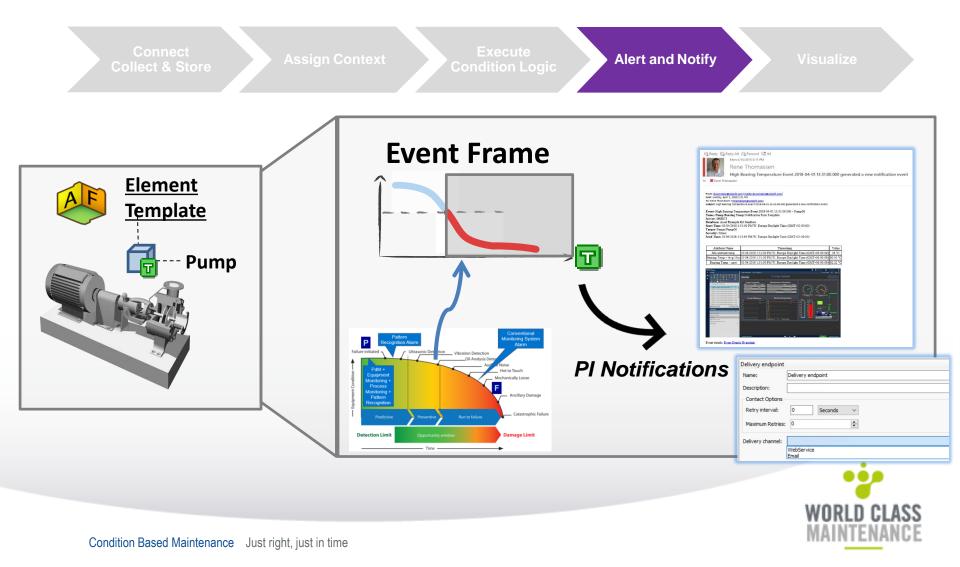


Execute Condition Logic



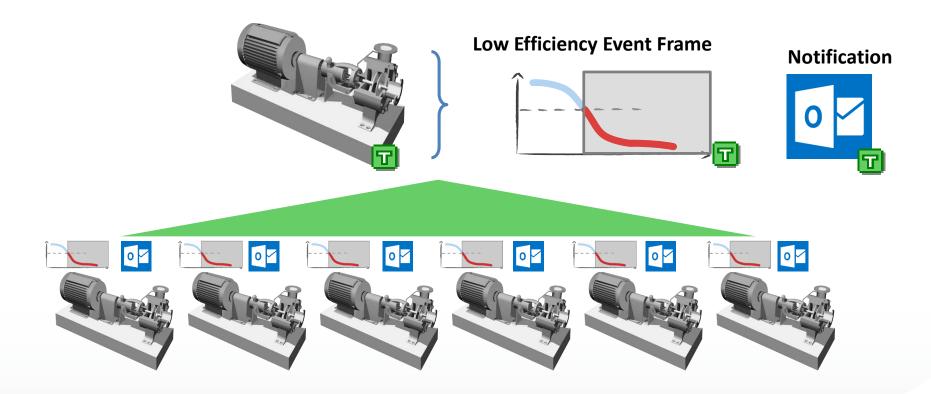


Alert & Notify





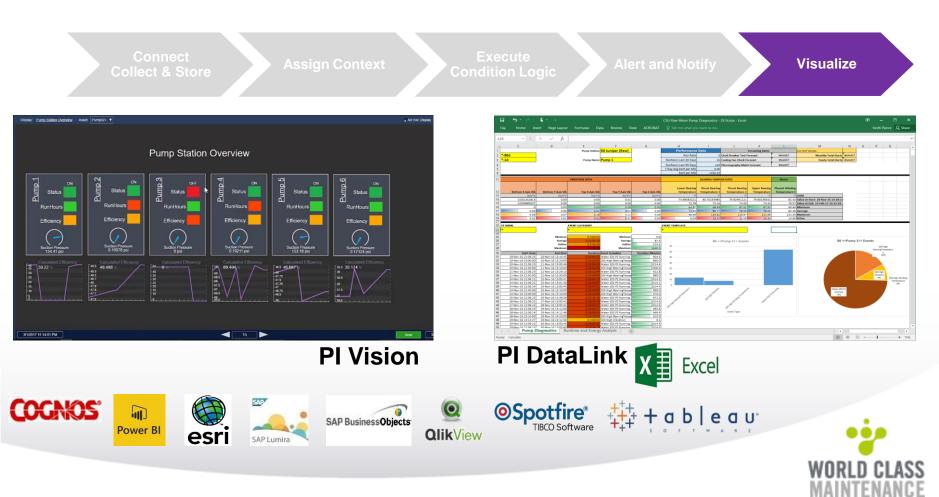
Replicate.. Using templates



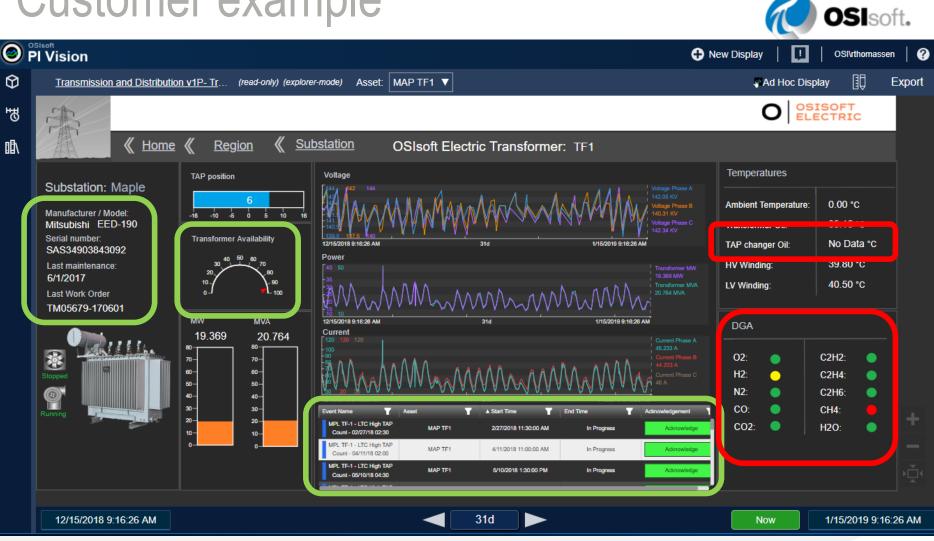








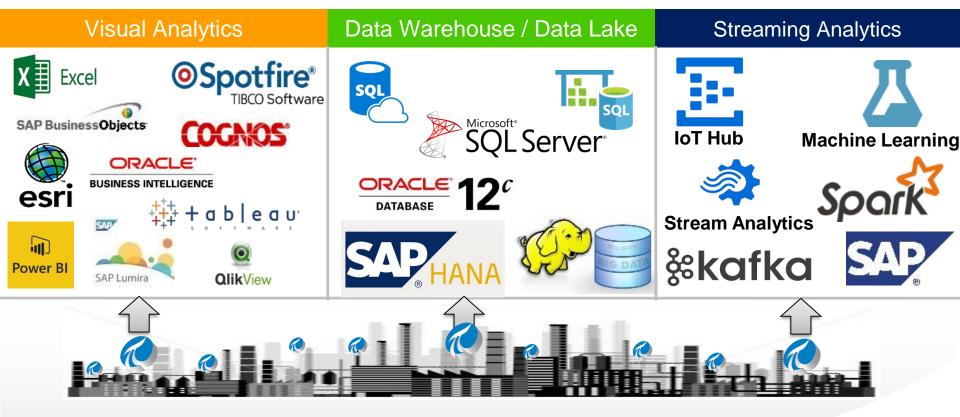
Customer example







Pl Integrator products "Cleanse – Augment – Shape – Transmit"



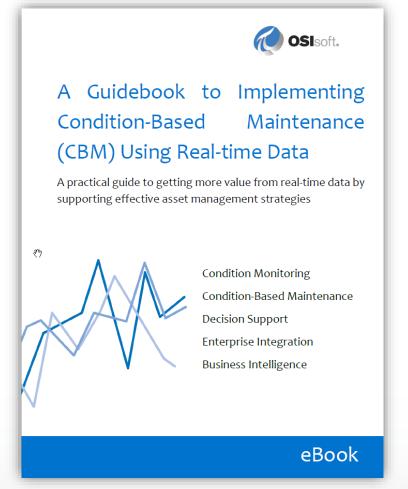






How to start.. Cookbook!



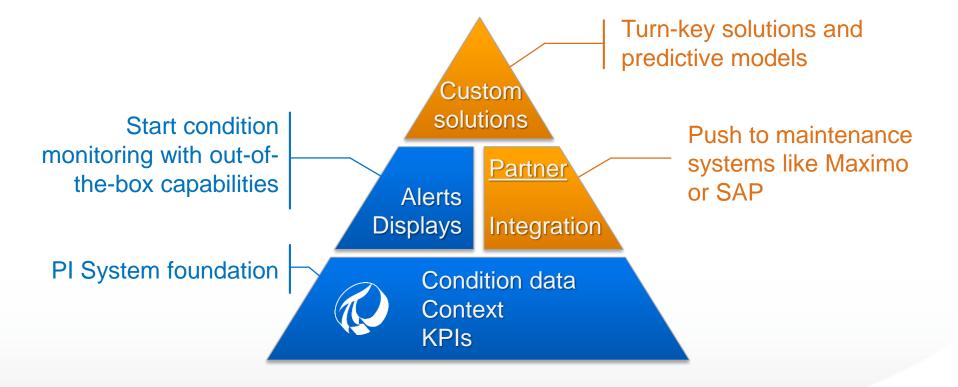


https://www.osisoft.com/webinars/condition-monitoring-and-cbm/





Partners – here to help







It's a Journey step by step with a common vision



... It's Technology, People and Process







