

PI Server 2014

Unleash Your Infrastructure

Presented by Stephen Kwan, OSIsoft Product Manager

Agenda

PI Server Basics:

- What is an infrastructure?
- What is the PI Server's role?
- What is included with the PI Server?

2. Tags vs. Assets

- Value from both approaches
- High value features driven by assets
- Future investment is in assets

3. Asset-Based Analytics

- What is new in PI Server 2014?
- The value of PI Server 2014 and our Asset-Based Analytics capabilities
- What do I do next?

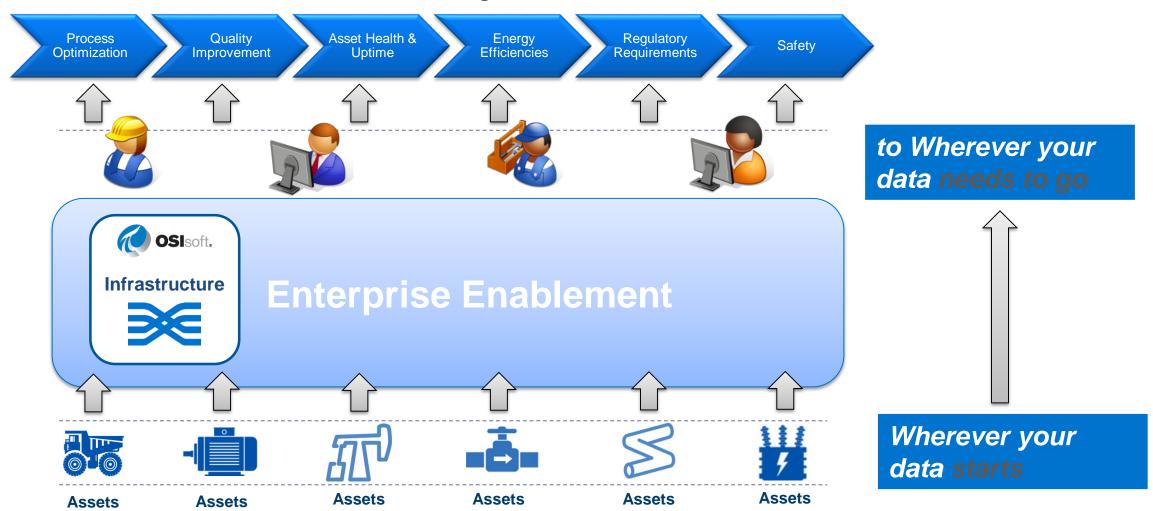




PI Server Basics

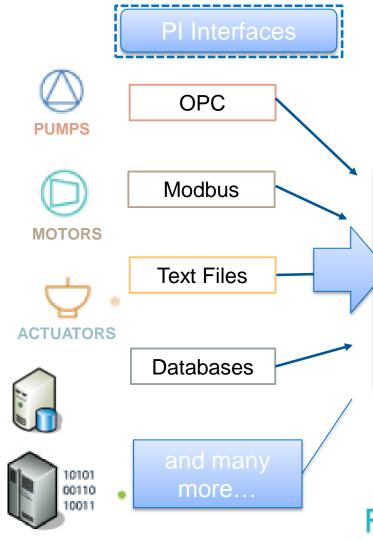
An Enterprise Infrastructure

Data Driven Insights



What is part of our Infrastructure...

'The pump is down - what's happening? Real Time Troubleshooting Keep the Process Healthy Report on **
data quickly Avoid



PI User Tools

PI Coresight
PI WebParts
PI ProcessBook
PI DataLink

3rd Party:

Custom Apps Partner Apps BI Integration and more...

Machine Friendly:]

PI Data

Archive

Human Friendly:)

PIAF

PI Notifications

PI Event Frames

Asset-Based

Analytics

5

breakdowns

The PI System is in many industries



Power & Utilities

OSIsoft is ranked 1st in the power industry



Oil & Gas

100% of the global Top 10 producers



Chemicals & Petrochemicals

40 of top 50 Chemical Companies



Materials, Mines, Metals & Metallurgy

Installed in the world's **largest** mining companies



Pharmaceuticals, Food & Life Sciences

9 of the Top 10 pharmaceuticals



Pulp & Paper

400 sites from worldwide leaders



Critical Facilities, Data Centers & IT

Innovative uses to monitor complex IT environments



Developing Markets

Health care, Machine to Machine, Automotive, Semi Conductors

What's included in PI Server 2014

- Time Series Data Storage
 - PI Data Archive
- Contextual, Organize and Find
 - PI Asset Framework (PI AF)

- Mark Important Events
 - PI Event Frames
- Notify Based on Conditions
 - PI Notifications

- Analytics and Event Generation
 - Asset-Based Analytics
 - PI ACE (Advanced Computing Engine)
 - PI Performance Equations
 - PI Totalizers

- System Management
 - PI System Management Tool
 - PI Interfaces for System Management

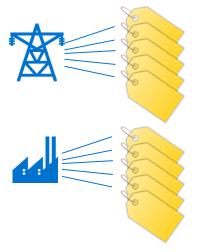
Tags vs. Assets

Both approaches add value

Tag Centric



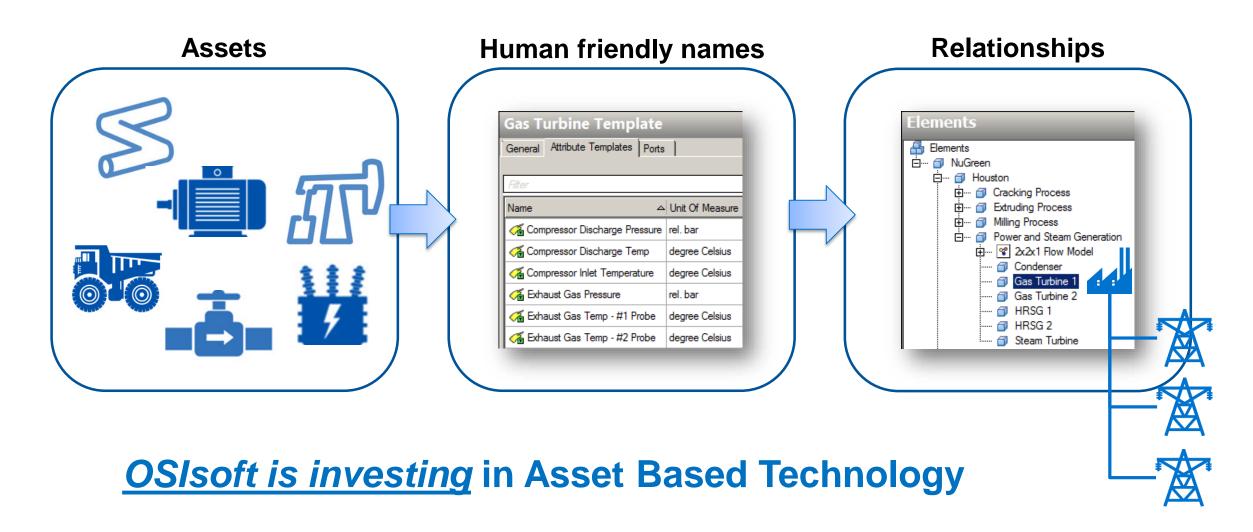
- Named by Control System point names
- Traditional method of data collection
- Leverage historical knowledge built around tags
- Simple deployment



Asset Centric

- Named by Asset & Property
- Organize your assets hierarchically, categorically, or by a particular grouping
- Standardize and build templates to help create a uniform way to compare assets
- Helps scale your system

An asset-based approach has many benefits



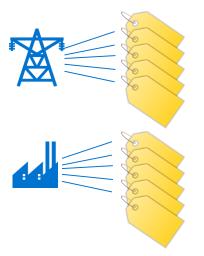


Many high value PI Server 2014 features rely on assets

Tag Centric



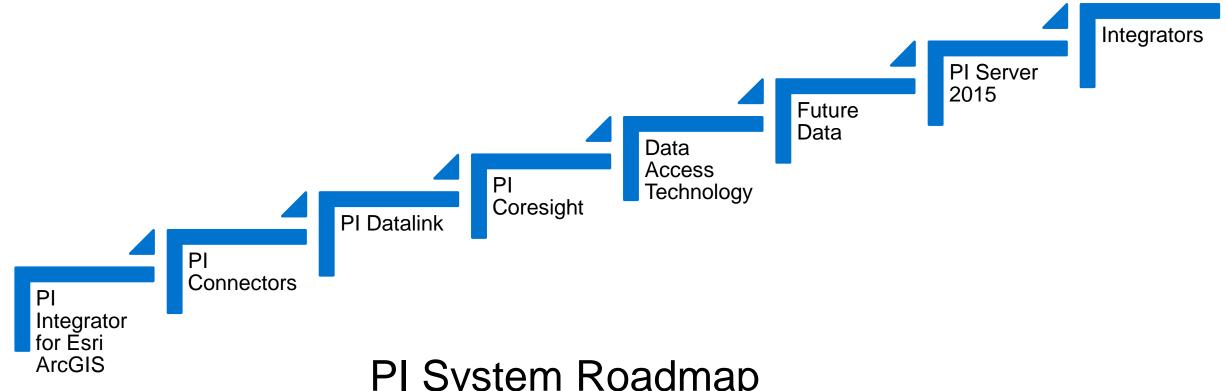
- Classic Historian
- Supports over 400+ Interfaces



Asset Centric

- Classic Historian
- Supports over 400+ Interfaces
- PI Asset Framework
- PI Event Frames
- PI Notifications
- Asset-Based Analytics

Future OSIsoft technologies are based on assets



PI System Roadmap

https://techsupport.osisoft.com/Products/Product-Roadmap

New in PI Server 2014

Asset-Based Analytics

- Easy empower users to build their own calculations
- Standardize and Reuse
 - Clarity and correctness
- KPIs and Rollups
- Automatic Event marking
- And of course, Performance and Scalability











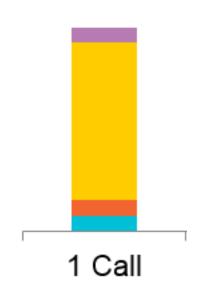
Performance

- Use Bulk RPCs
- Make One Call instead of Spinning Like a Top





Performance – Bulk Calls



- Server
- Latency
- Bandwidth
- Client

Pipe & Cache

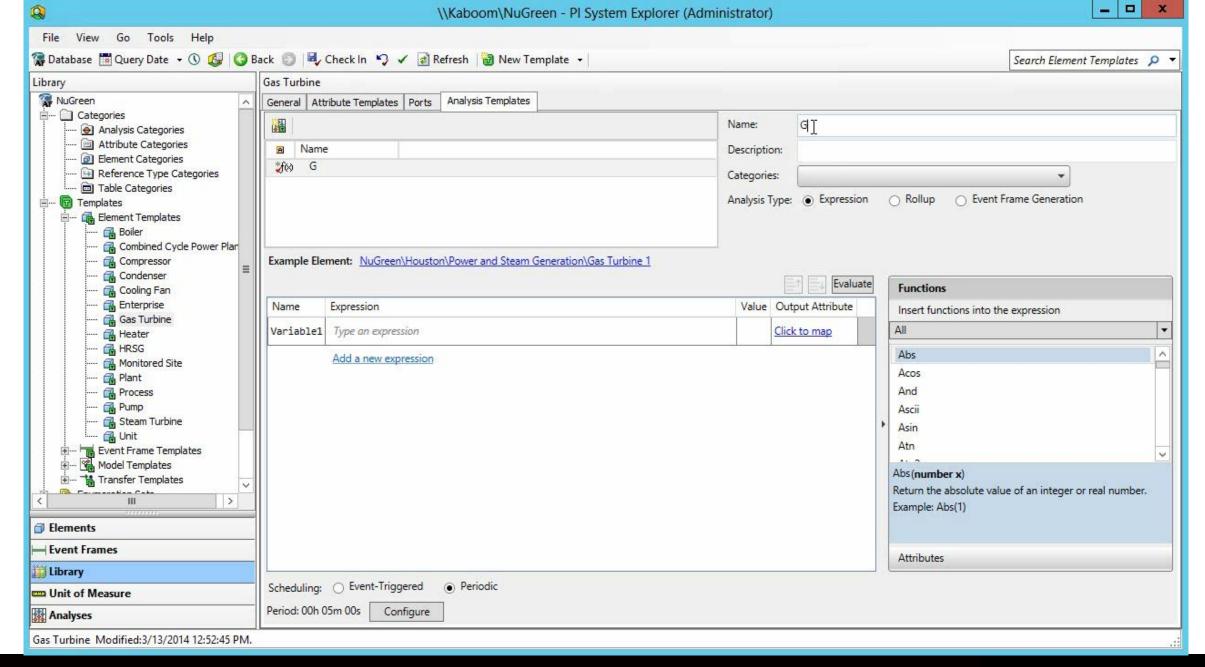
- Pipe Already Holds Interesting Data
- Cache Retains Data Client-Side





Usage Scenarios Calculations Test Calculations **Backfill**

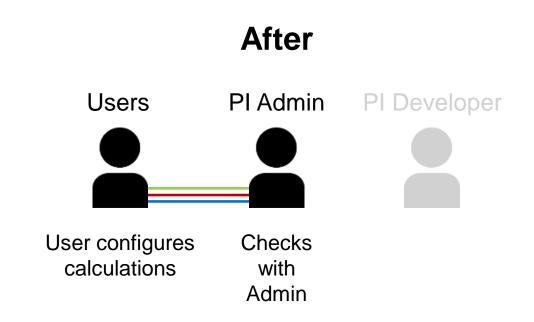




Asset-Based Analytics: Self-Service Analytics

Users PI Admin PI Developer User requests Checks Developer resource Admin assigned

- Slows down time to value
- Numerous interactions, creates complexities



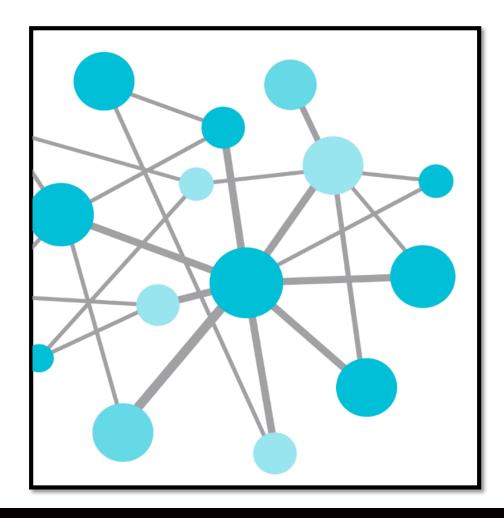
- Configure, test and validate immediate feedback
- Build new assets templates ensure same calculations in all instances

Asset-Based Analytics Timeline



300+ beta users

PI Server 2014: How to get it



New Customer?

- ⇒ Talk to you Account Manager
- ⇒ Download and Install

Existing Customer?

⇒ Easy Upgrade with current SRP

OSIsoft Learning

- ⇒ OSIsoft Learning Web site



Thank you

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