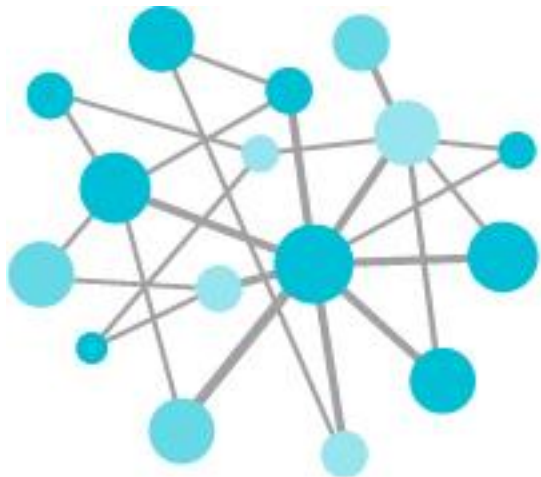


PI Integrator for Esri ArcGIS

Presented by **Michelle Kuiee, Product Manager**



OSIsoft.

USERS 2014 CONFERENCE

The **Power** of **Data**

DECISION READY IN REAL-TIME

Bring your Maps to Life

OSisoft | Esri | Oil and Gas Dashboard

Wells

Q Search

- CE-08300011
Flow Rate: 250.92 k sft3/h
Flow Tubing Pressure: 181.21 psig
1/6/2014 12:19 PM
- CE-08300073
Flow Rate: 363.30 k sft3/h
Flow Tubing Pressure: 99.26 psig
1/6/2014 12:19 PM
- CE-08300083
Flow Rate: 302.46 k sft3/h
Flow Tubing Pressure: 167.81 psig
1/6/2014 12:19 PM
- CE-08300101
Flow Rate: 247.43 k sft3/h
Flow Tubing Pressure: 247.27 psig
1/6/2014 12:19 PM

Flow Rate

250.92

Flow Tubing Pressure

181.21

psi

Production KPI

295.17 k sft3/h

Cat Canyon Operations Dashboard Map

PI CoreSight

PI CoreSight™
New Undo Redo Messages (Read Only) Help

CS-08300083 FLOW RATE 48630 1/6/2014 11:19 AM CS-08300083 BOTTOM HOLE PRESSURE 133318 1/6/2014 12:19:10 PM

Bottom Hole Pressure

GeoFences

(2) Add Search...

GeoFenceld	Category	Name
Danger Zone 1 Items		
DangerousArea/Danger Zone	DangerousArea	Danger Zone
Drilling Activity 1 Items		

Alerts

Alerts (8) Search...

Incident Name	Resource	Resource Name	Description
Cumulative: 8 Items			
DangerousArea 8 Items			
DangerousArea	Roustabout Miguel		Ongoing for last 54 seconds.
DangerousArea	Roustabout Miguel		Ended at Mon Jan 06 17:18:05 UTC 2014 and lasted for 36 seconds.
DangerousArea	Roustabout Carol		Ongoing for last 3 minutes and 40 seconds.

Trucks

- Roustabout Miguel
Fuel: 0.00 gal
Speed: 2.92 mph
- Electrician Bob
Fuel: 0.00 gal
Speed: 2.69 mph
- Welder Joe
Fuel: 68.22 gal
Speed: 10.84 mph
- Supervisor Lauren
Fuel: 16.52 gal
Speed: 26.13 mph

Truck Detail

Roustabout Miguel

This truck has consumed 0.00 gallons and has driven 316.019.69 miles

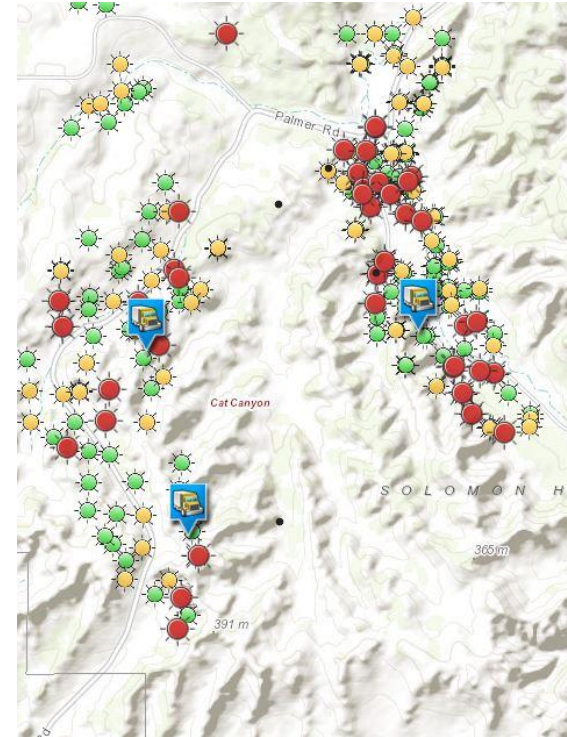
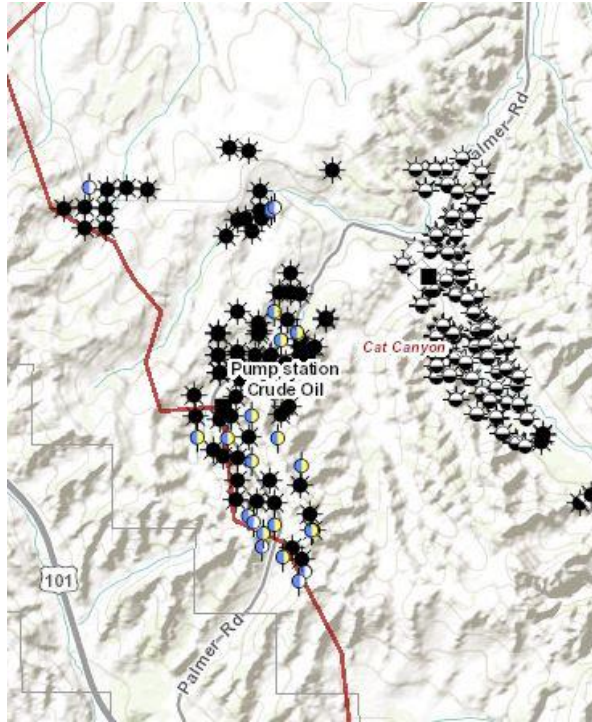
Roustabout Miguel

Fleet Average Speed

10.68 mph

Fleet Average Speed

Before and After



Connecting Space and Time

- Serve assets for mapping as features
- Add dynamic features to maps
- Dig deeper into historical data from a feature
- Spatial aggregation provided with the map
- OSIssoft PI Server and Esri ArcGIS provide new ways to monitor assets, including heat maps

Portal Configuration Experience

Not a programming project! 😊

The screenshot shows the PI Geo Services portal interface. At the top, there is a navigation bar with the logo and menu items: Services, Administration, Tools, and Help. On the right side of the navigation bar, the user's name 'Kuiee, Michelle' and a 'Log Off' link are visible. Below the navigation bar is a breadcrumb trail: 'home / services / AlohaNuiEnergy'. The main content area features the title 'Service AlohaNuiEnergy' with edit and delete icons. To the right of the title is a link to 'View in services directory'. Below the title is the subtitle 'Providing Power to O'ahu' and the creation date 'Created on 05/01/2014 06:41:19 (2014-05-01T18:41:19.15)'. A 'Layers' section follows, with a descriptive paragraph: 'Layers allow you to select data from the PI System to connect to the ArcGIS Platform. Layer data can be exposed in different ways. You can configure these capabilities after you have created a layer.' To the right of the layers section are two buttons: a green '+ Create Layer' button and a 'Tile view' button. At the bottom of the page, a light blue box contains the message: 'You don't have any layers defined for this service. Click the **here** to start adding layers'.

PI Geo Services Services Administration Tools Help Kuiee, Michelle Log Off

home / services / AlohaNuiEnergy

Service AlohaNuiEnergy

View in services directory

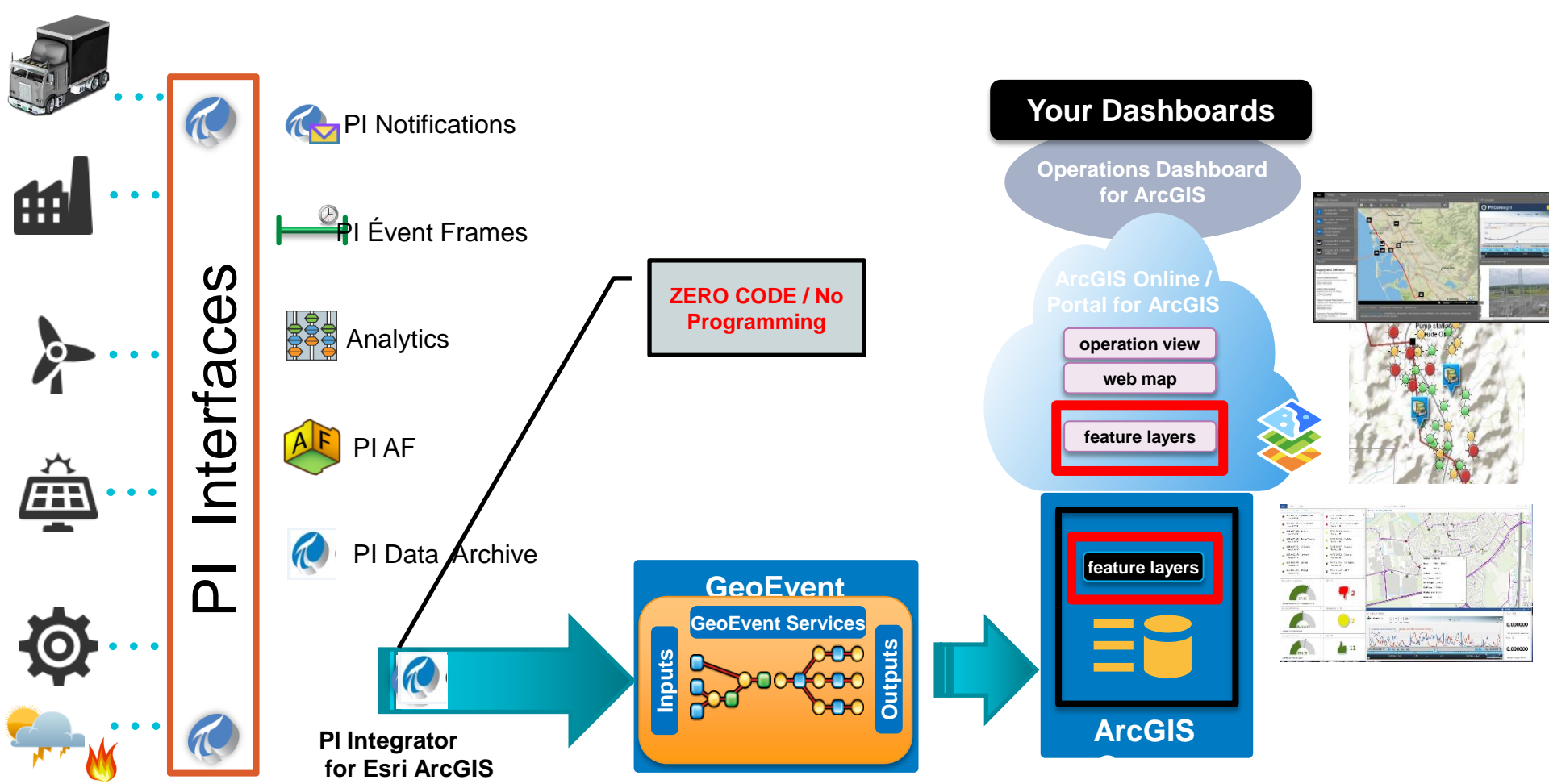
Providing Power to O'ahu
Created on 05/01/2014 06:41:19 (2014-05-01T18:41:19.15)

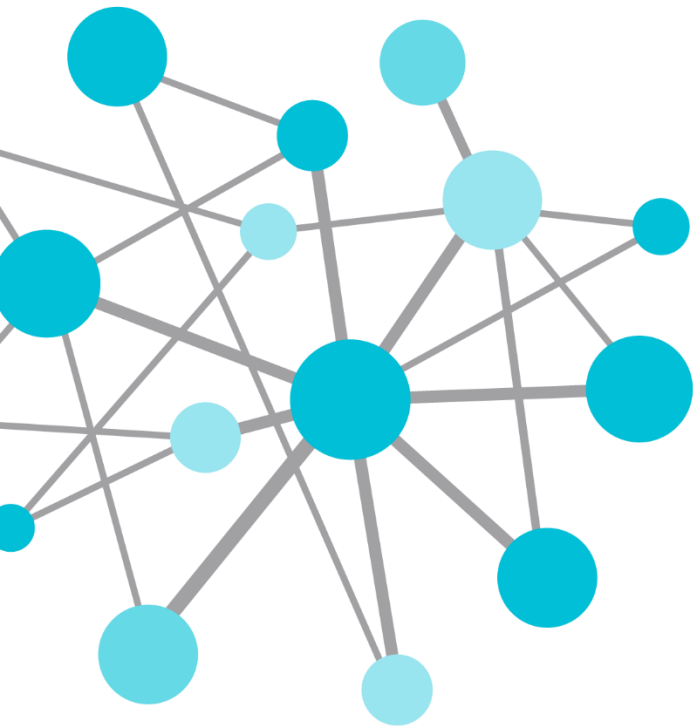
Layers

Layers allow you to select data from the PI System to connect to the ArcGIS Platform. Layer data can be exposed in different ways. You can configure these capabilities after you have created a layer.

[+ Create Layer](#) [Tile view](#)

You don't have any layers defined for this service. Click the **here** to start adding layers



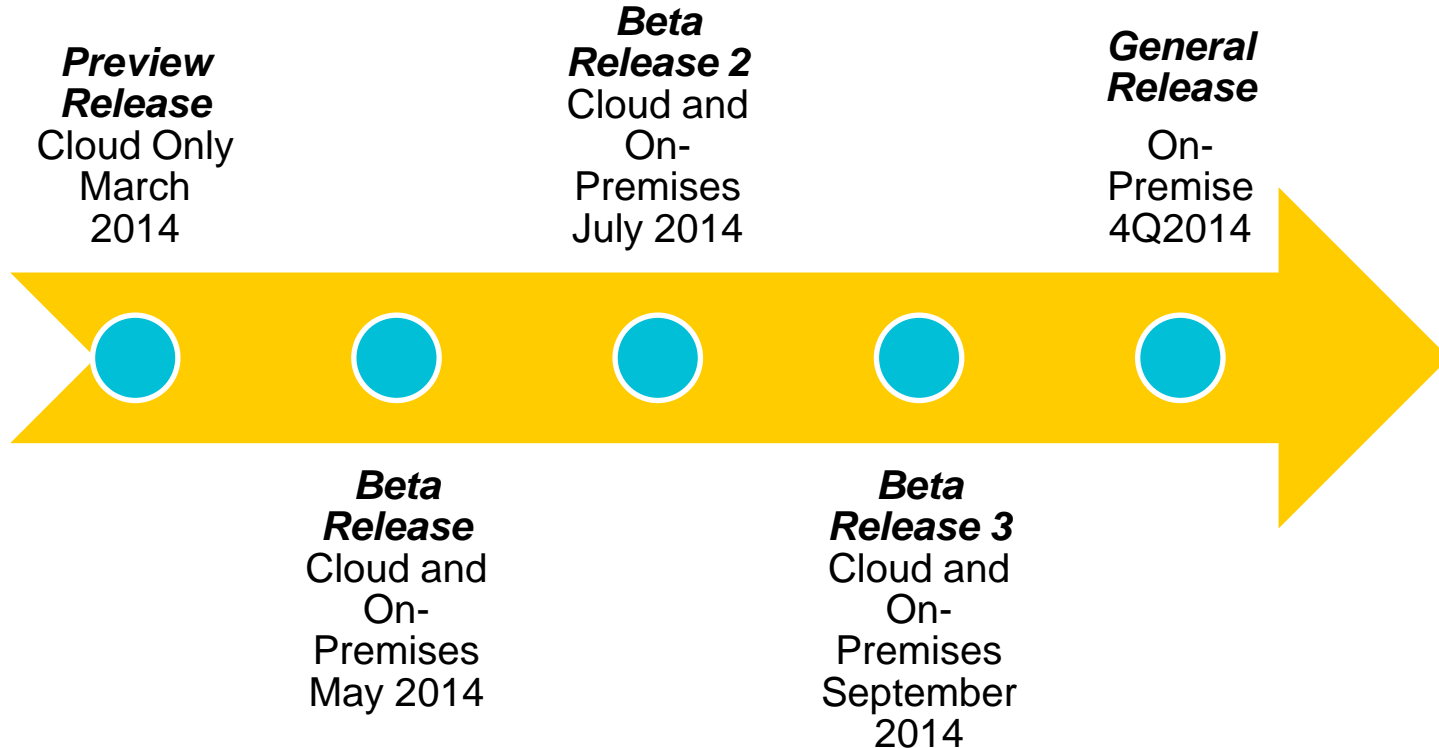


No PI Asset Framework (PI AF) Databases Configured?

Esri Map Extractor

- Concepts
 - Map Features can represent a PI AF Element
 - Feature Layers can be represented as PI AF Template
- The Map Extractor builds PI AF templates and elements from features on a map

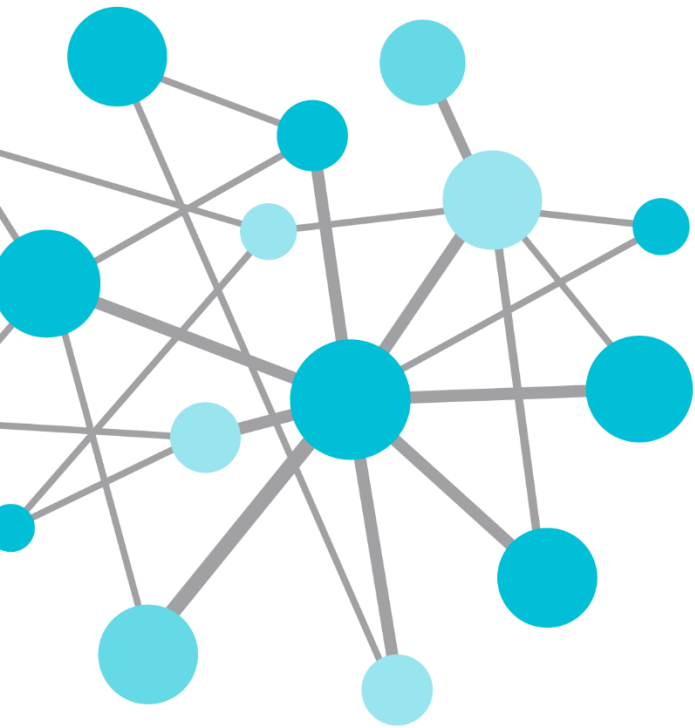
Timeline





THANK
YOU

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Update on Development of Key PI Interfaces for Oil & Gas

Presented by **Chris Coen, Product Manager**

Brandon Andersen, Sr. Software Developer

Agenda

- Context
- PI Connector for CygNet
 - Overview
 - Demo
- Wonderware Historian (InSQL)
- WITSML
- Closing Comments



OSIsoft – The Leader In Connecting to your Data Sources

- Strategic differentiator & Competitive Advantage
- We've built over 450 PI Interfaces
- Continuing to maintain those
- Building more to meet your needs
- Strong team and core competency



TOP 50 GLOBAL AUTOMATION VENDORS		2010 Worldwide
	TOTAL (in millions)	88,555.4
1	✓ Siemens	12,896.4
2	✓ ABB Process Automation and ABB Automation Products	10,945.6
3	✓ Emerson Process Management	6,533.3
4	✓ Rockwell Automation	4,424.0
5	✓ Schneider Electric	4,415.0
6	✓ Mitsubishi Electric	3,473.6
7	✓ Danaher Industrial Technologies	3,168.4
8	✓ Yokogawa Electric	2,979.3
9	✓ Honeywell Process Solutions/Sensing & Control	2,775.1
10	✓ GE	2,200.1

Source: www.controlglobal.com



ODBC



HTML/XML



SNMP



GE Intelligent Platforms



Distributed Network Protocol



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OSIsoft Tech Support

Things to Do

- [Generate a License File](#)
- [Open a Support Case](#)
- [Download Software](#)
- [Update My Profile](#)

- [Ask the Community](#)
- [Search Knowledge Base](#)
- [Watch Learning Videos](#)
- [Browse the Live Library](#)
- [System Manager Resources](#)

- [My Downloads](#)
- [Browse All Downloads](#)
- [My Download History](#)

- [PI System Roadmap](#)
- [PI Server](#)
- [PI Visualization](#)
- [PI System Access](#)
- [Search for Interfaces](#)

My Support Cases

You currently have no open cases.

- [View all my support cases](#)
- [Create a new case](#)



Product Alerts

December 10, 2013
[PI Coresight and Microsoft Patch Compatibility](#)

November 14, 2013
[VSS backup of PI Server 2012 fails on Windows Server 2012 R2](#)

September 9, 2013
[PI Interface for Performance Monitor version 2.0.0.73 Ignores the Conversion Tag Attribute](#)

August 13, 2013
[Security Bulletin - Two vulnerabilities in the PI](#)

Product Releases

March 12, 2014
[A new Tech Support Website is coming next week!](#)

March 11, 2014
[PI Interface for SIMCA-online version 3.0.0.104 and PI Interface for SIMCA-online x64 version 3.0.0.105 are released](#)

March 6, 2014
[PI Interface for OPC DA 2.5.1.3 is released](#)

February 13, 2014
[PI Interface for SAFER Real-Time 1.0.2.14 is released](#)

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OSIsoft Tech Support Enter a keyword... Search

My Support Contact Us Troubleshooting Downloads Products

PI Interfaces Search

Enter a few key words below to find the right PI Interface for your system.

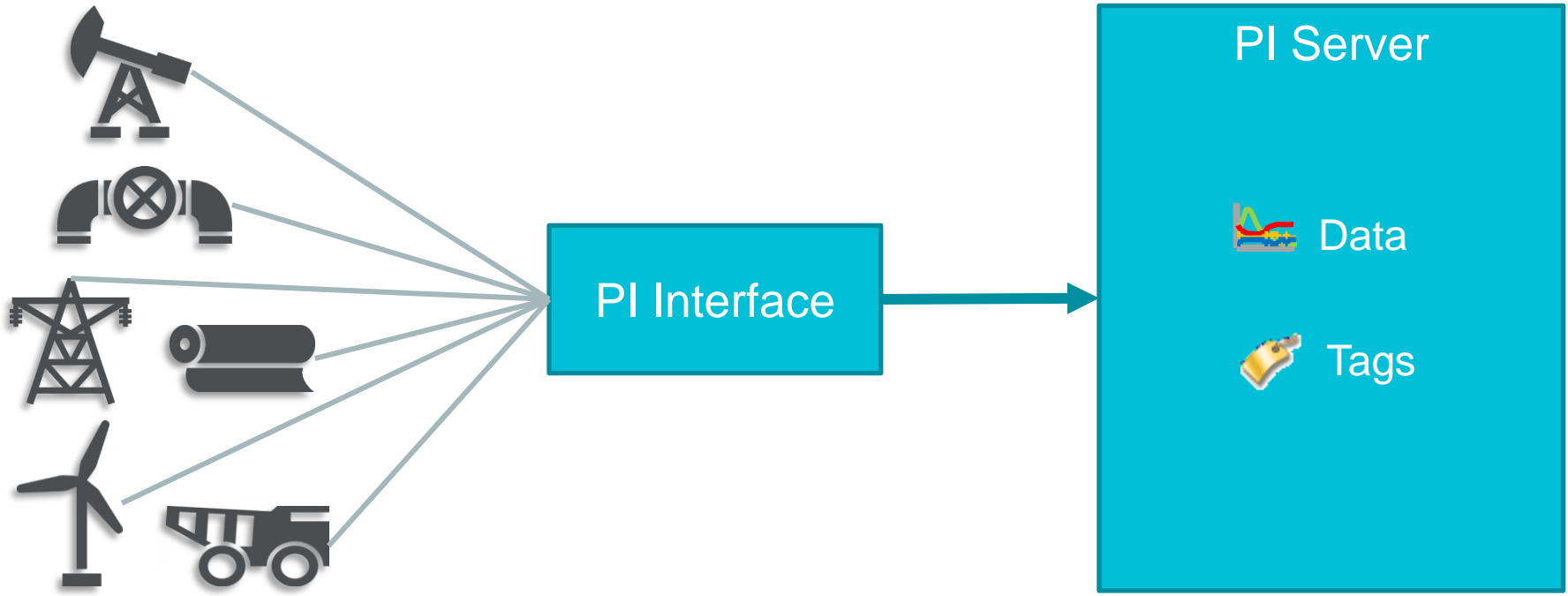
Hint: try the vendor name (for example: "Honeywell").

abb Search

Interface	Platforms	Version	Availability
PI Interface for ABB 800xA Batch PI-IN-ABB-800BAT-NTI	Windows	3.0.13.369	Standard
PI Interface for ABB IMS Advant PI-IN-ABB-ADV-NTI	Windows	5.82.0.58	Standard
PI Interface for ABB IMS Advant PI-IN-ABB-ADV-HPUX	HPUX	N/A	Standard
PI Interface for ABB IMS Advant PDL PI-IN-ABB-PDL-NT	Windows	3.0.3.45	Standard
PI Interface for ABB Procontrol P for PBS Common Procontrol data Server PRIMOS, abbpbs, POS30 POS 30, PBS30, PBS 30 PI-IN-ABB-PPBS-NTI	Windows	2.25.0.73	Standard

PI Interfaces:

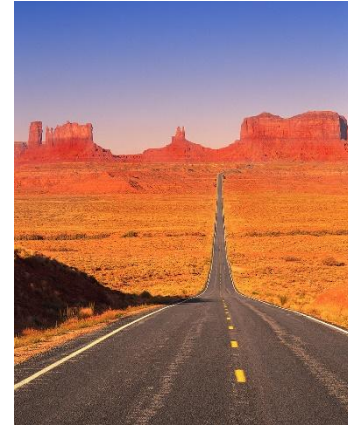
Proven and reliable data collection



Challenges We Have Heard

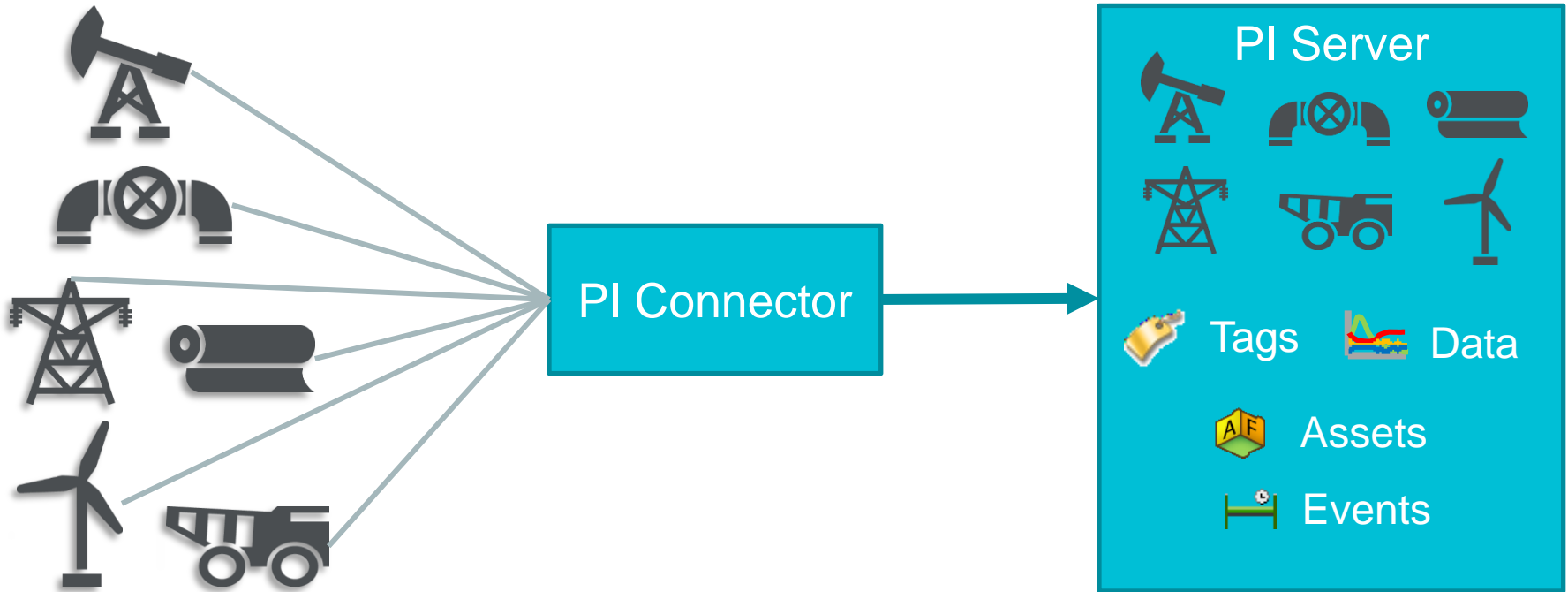
- Spend lots of time configuring tags
- Challenging to configure interface
- Time consuming to build an asset model

- Collect high speed data
- Collect data from many new systems



PI Connectors:

Strong connections to your data sources



Advantages of PI Connectors

- Auto-create assets and tags
- Auto-discovery of assets and tags
- Collect event data type (PI Event Frames)
- Simple configuration
- Higher speed
- Ability to run on Linux

PI Connector for CygNet



- CygNet, a Weatherford company
- Leading SCADA in Oil & Gas upstream
- Foundation for many applications and solutions

PI Connector for CygNet



- CygNet SCADA system collects data from various assets, such as:
 - Batteries (Oil treatment facilities)
 - Communication Devices
 - Wells
- Real-time data and metadata

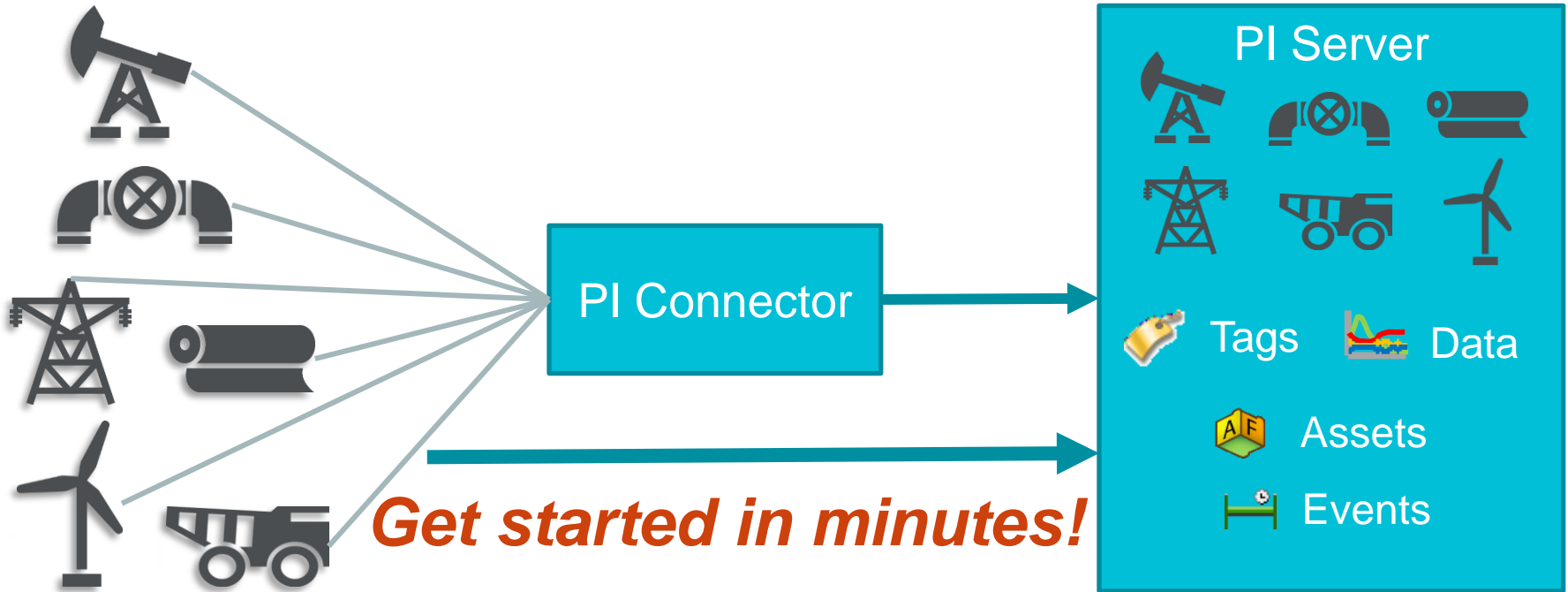


PI Connector for Wonderware Historian



- Previously known as Wonderware InSQL
- Collect data to roll-up into corporate PI System

PI Connectors: Strong connections to your data sources



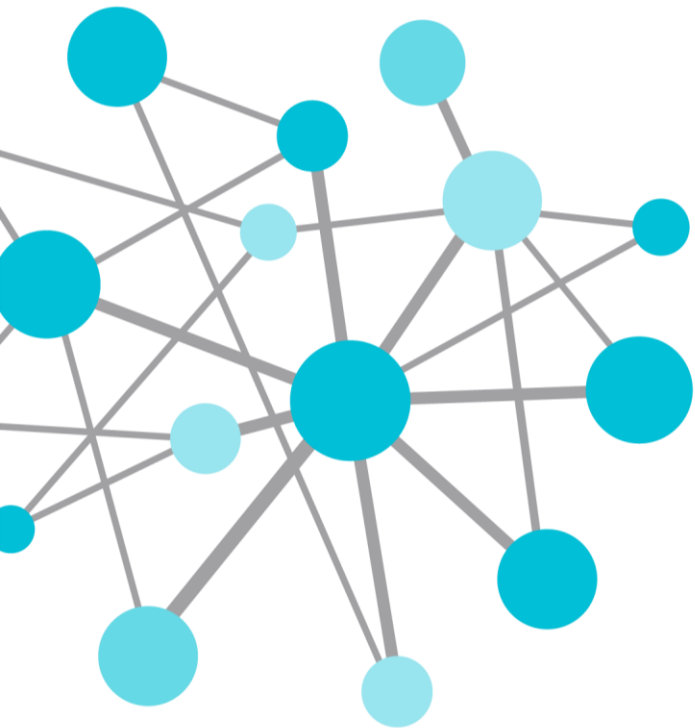
Get started in minutes!

Chris Coen

ccoen@osisoft.com

Product Manager

OSIsoft, LLC



THANK
YOU

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this session

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