

OSIsoft Product Roadmap

Clarence Presha
October 10, 2017



Our Vision

Assets



Multiple
Sensors

Plant



Multiple
Assets

Enterprise



Multiple
Plants

Community



Multiple
Enterprises



Expanding the OSIsoft portfolio of offerings

Connectivity

Connectors /
Interfaces



Embedded
Connectors



Edge
Historian

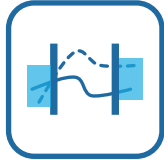


Enterprise

Notifications



Event
Frames



Developer
Technologies



Server



Asset
Analytics



Health
Tooling



Visualization

Vision



Manual
Logger

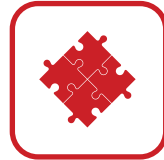


Datalink



Integration

BA



SAP



Streaming



Esri



Microsoft



Enterprise wide
Queries



Cloud Services

Cloud Connect



Data Sharing



Display Sharing



Accessing Operational Data



OSIsoft is the source for operational data: Connectivity

Connectivity

Connectors / Interfaces



Embedded Connectors



Edge Historian



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Notifications



Event Frames



Developer Technologies



Archive



Asset Analytics



Health Tool



Visualization

Vision



Manual Logger

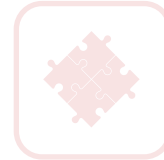


Datalink



Integration

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SAP



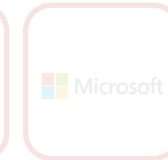
Streaming



Esri



Microsoft



Enterprise wide Queries



Cloud Services

Cloud Connect



Data Sharing



Display Sharing



The Industrial Internet of Things (IIoT) has inherent risks and challenges

Data Silos

One version of the truth?
Data is isolated from other use cases
Data management challenges



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Assets



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Automation Systems



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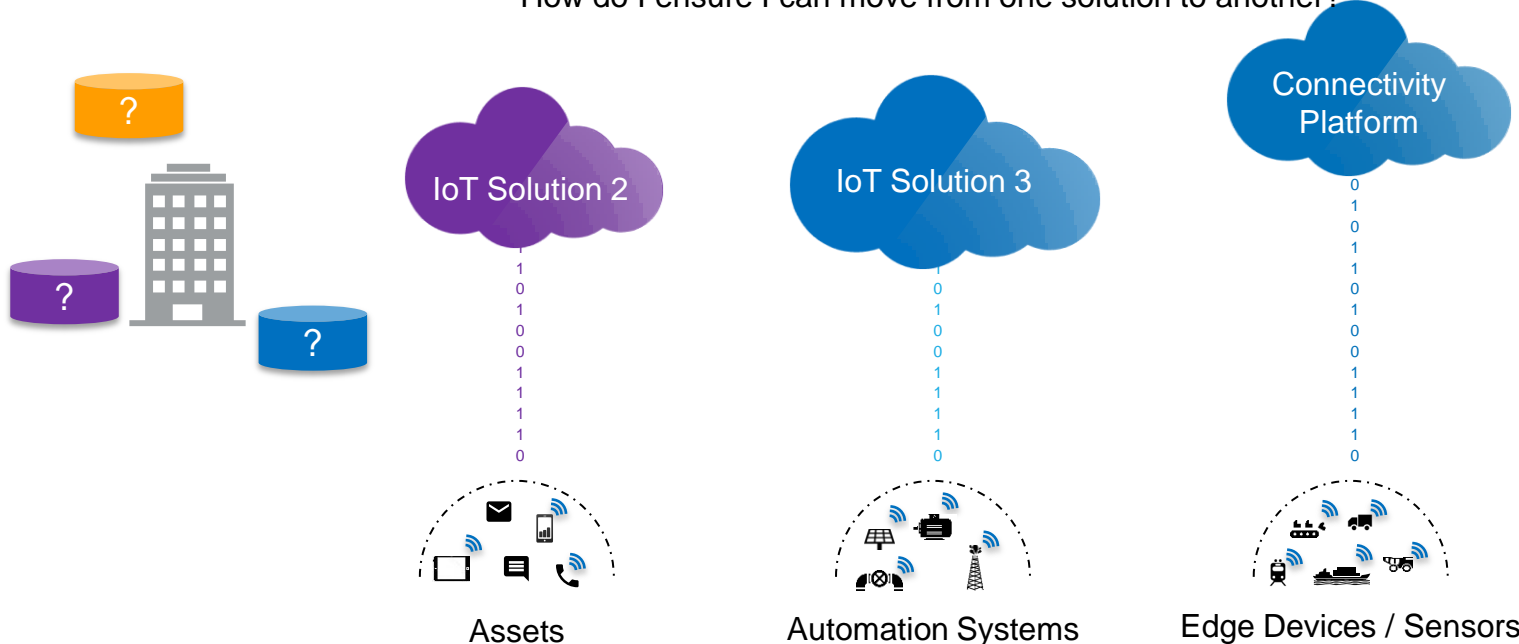


Edge Devices / Sensors

IIoT risks and challenges: Data Ownership

Data Ownership

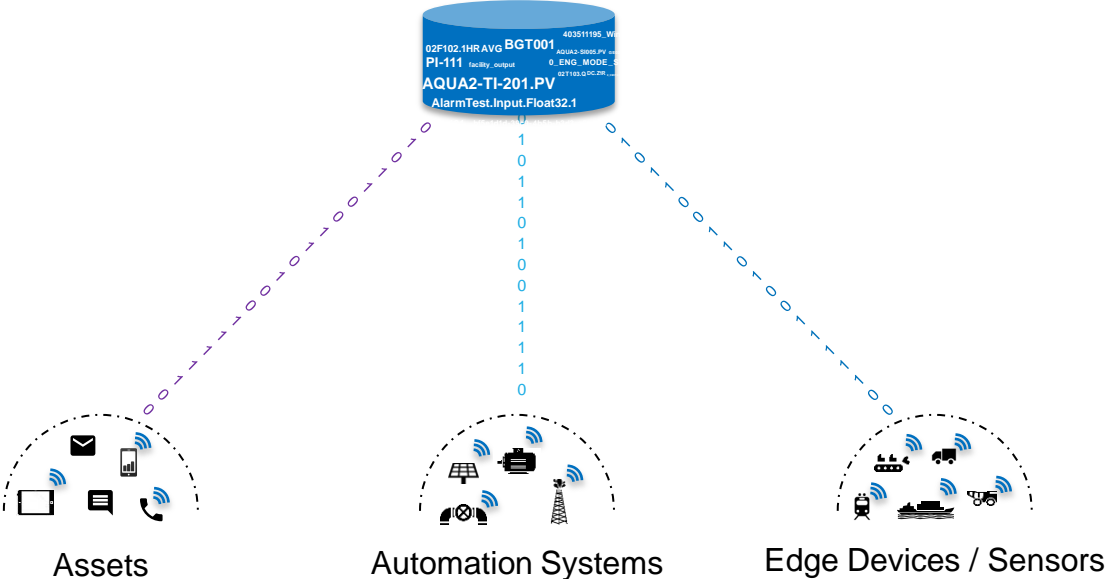
Do I have access to my own data?
How do I ensure I can move from one solution to another?



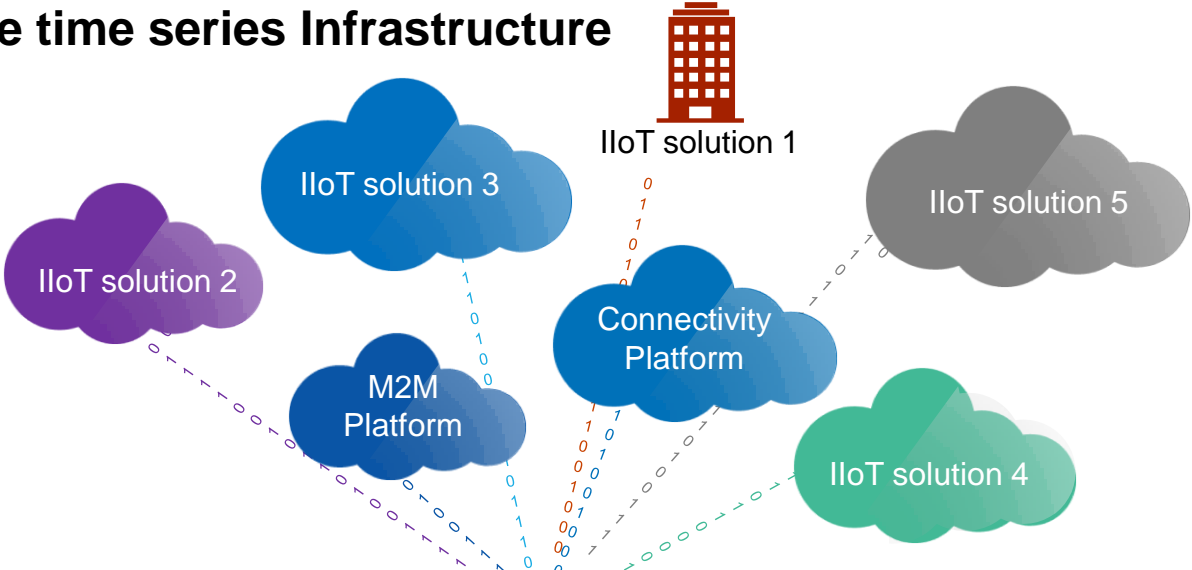
IIoT risks and challenges: Data Context

Data Context

Understanding the criteria to analyze data is as important as the data itself
The further data moves from SME's the more important context is



Extending the time series Infrastructure



OSIsoft®

Enterprise Operations Infrastructure



Edge Devices / Sensors



Automation Systems

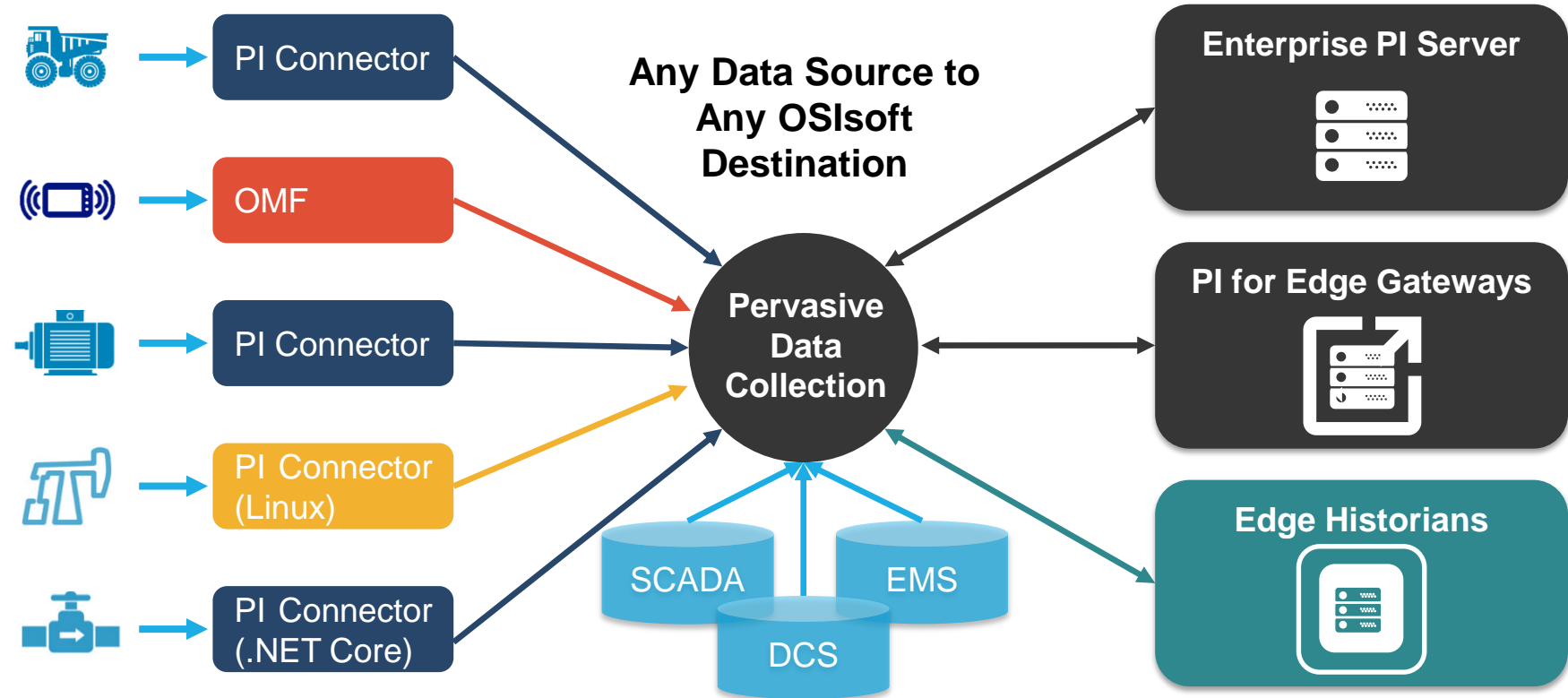


Assets



IoT solutions

OT Data Ownership



Partner Enablement

Monico
(OMF application)



HPE
(PI System deployment)

Dell
(PI System deployment)



Partners
(PI Connector on Linux (native))

Cisco
(PI Connector on Linux (.NET Core))



Stratus IoT Solutions
(OMF application)



Evolution of the Enterprise

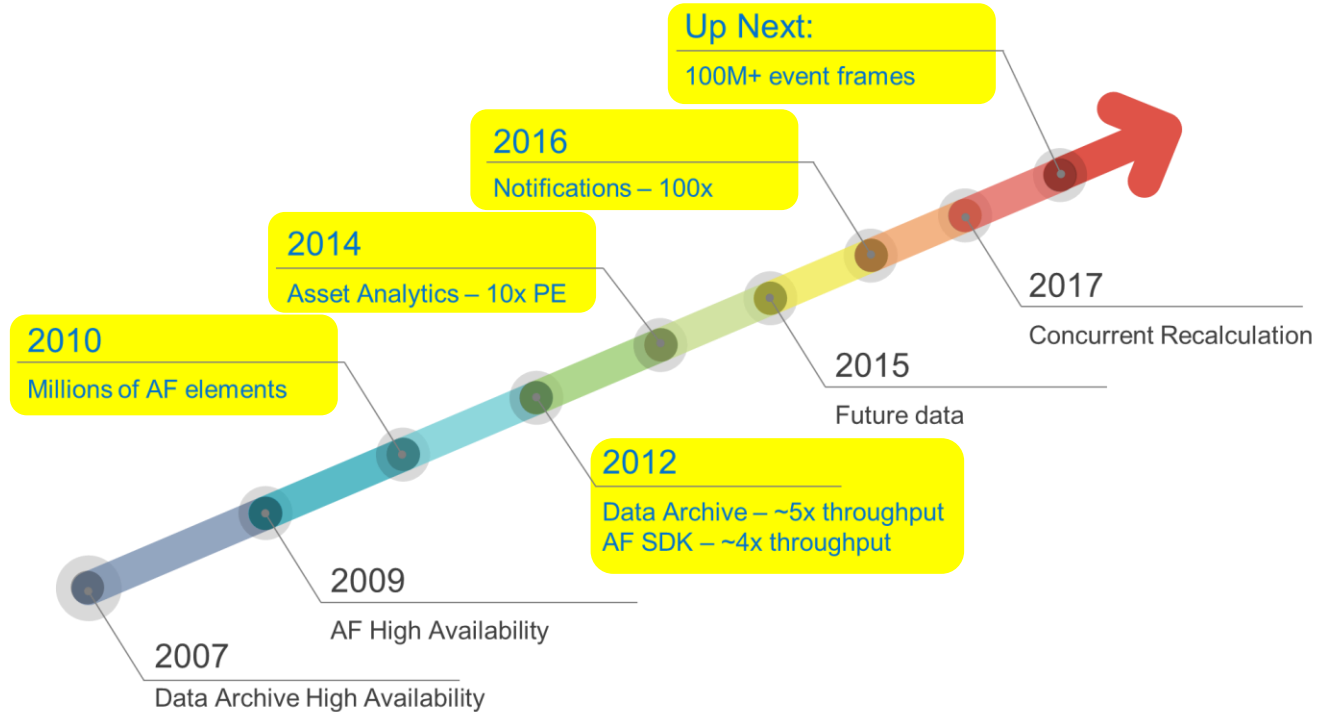


Expand the PI System: Performance and Scalability

Expand



Increase the **volume & velocity** of operations data

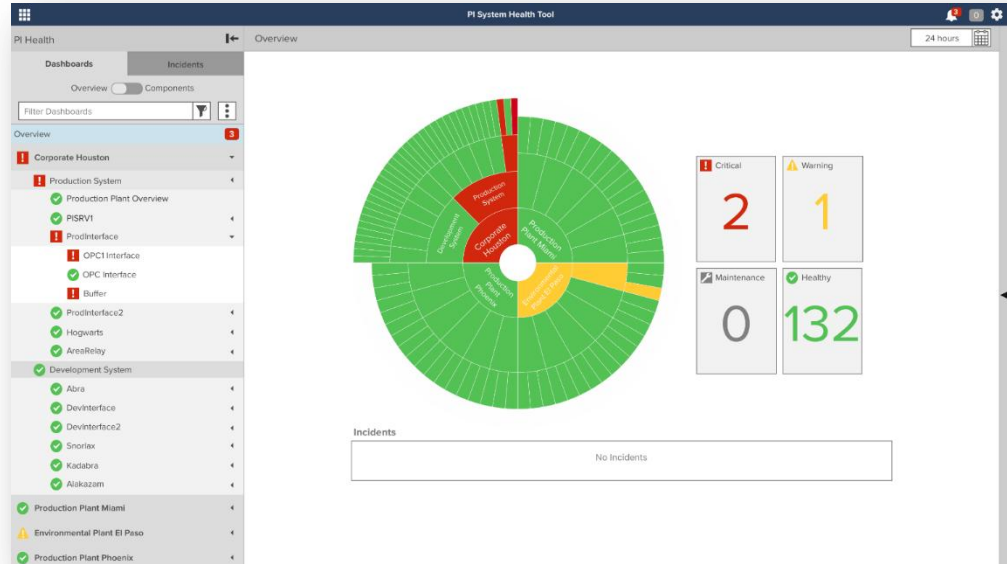


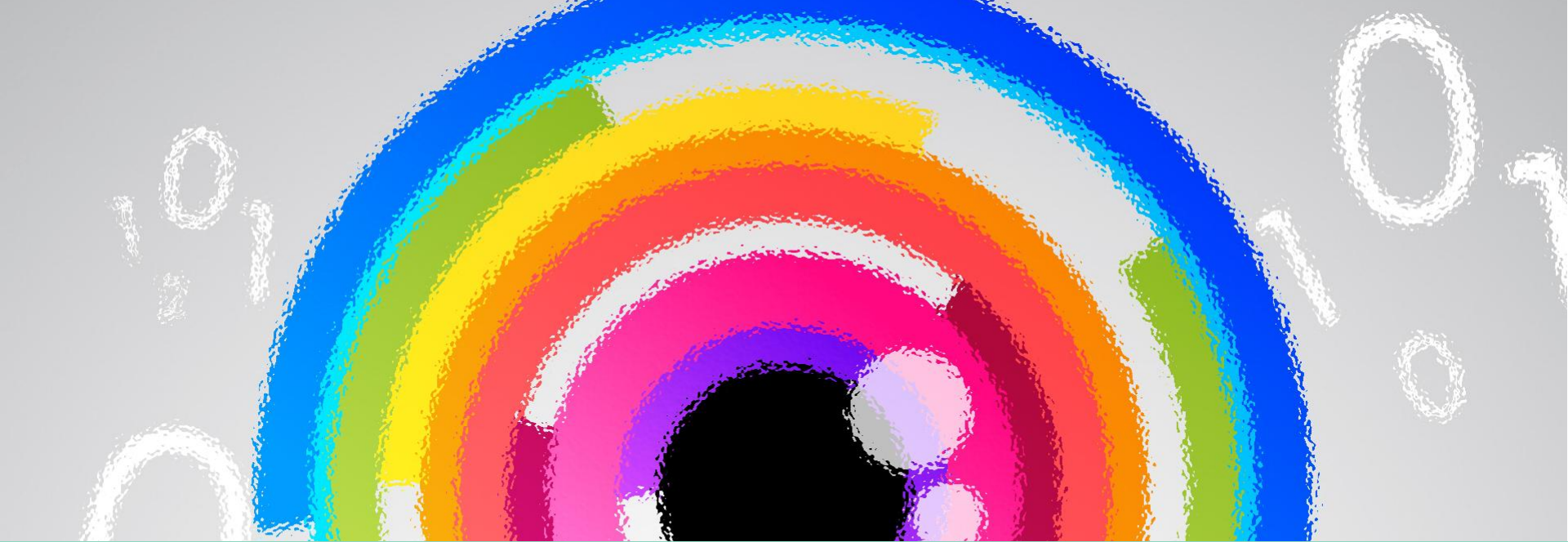
Ease of use with the PI System: Management and Administration

Ease



PI system tools
designed to work
across the enterprise





Visualizing Operations Data



An Integrated Visualization Strategy

Connectivity

Connectors



Embedded Connectors



Edge Historian



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Asset Analytics



Health Tool



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Vision



Manual Logger

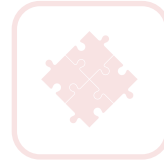


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Enterprise wide Streaming Queries



Cloud Services

Cloud Connect



Data Sharing



Display Sharing



An Integrated Visualization Platform

Today



PI ProcessBook

Display Editor
Process Monitoring



PI Coresight

Ad Hoc Analysis
PB Display Viewer



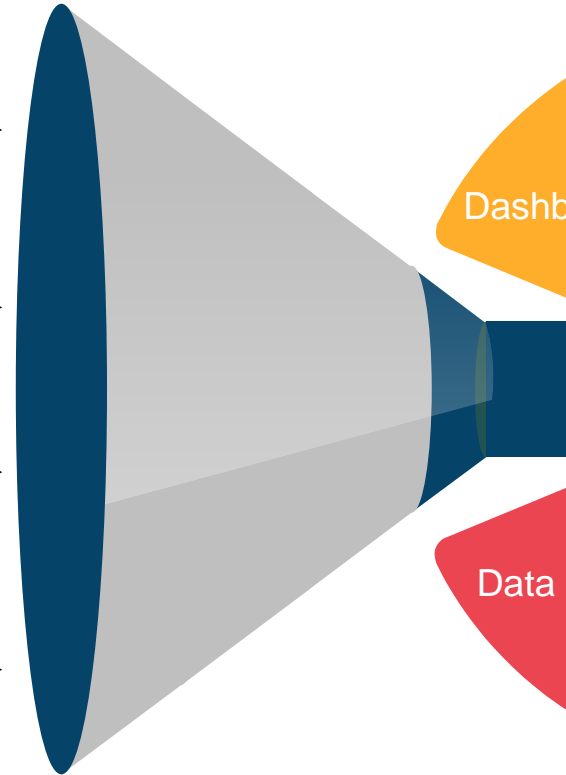
PI WebParts

Dashboards

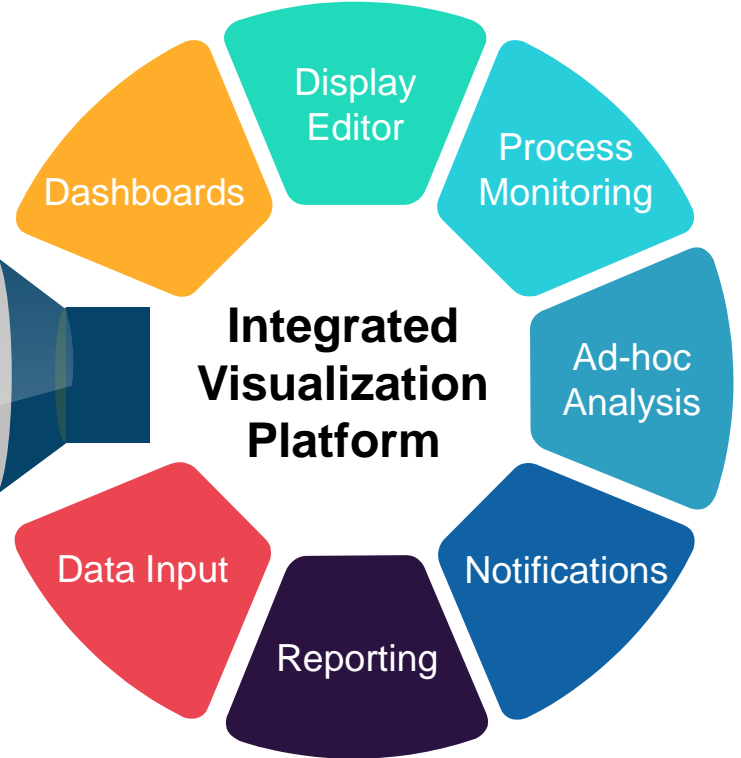


PI Manual Logger

Manual Data Entry



Tomorrow



One Vision:

A unified visualization infrastructure to support your needs across the enterprise in a seamless, powerful, extensible environment.



PI Vision 2017

Drill-in Navigation

Manufacturer	Type	Driver	Tonnage	Ground Speed	Status	Load
Volvo	Volvo	Tommy TooFast	0 mth	0	Running	0 ton
Route B					Running	

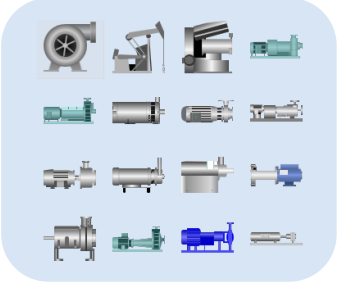
Collections

Pinned Events

Search Results

- OSisoft_201581181621 (CLEANING)
- OSisoft_2015810231135 (CLEANING)
- OSisoft_201581202655 (CLEANING)
- OSisoft_2015810232451 (CLEANING)
- OSisoft_20158519028 (CLEANING)
- OSisoft_201585185135 (CLEANING)
- OSisoft_2015853150 (CLEANING)
- OSisoft_201584104839 (CLEANING)
- OSisoft_201584103941 (CLEANING)

Graphic Library



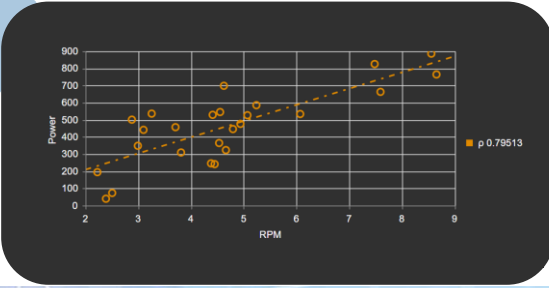
Events Table

Event Name	Asset	Start Time	End Time	Acknowledgment
Engine Temperature High 2017-01-26 06:21:43.000	SP4	1/26/2017 6:21:43 AM	1/26/2017 7:57:43 AM	Acknowledge
Engine Temperature High 2017-01-26 07:14:43.000	SP6	1/26/2017 7:14:43 AM	1/26/2017 8:22:43 AM	Acknowledge
Gas Tank Level Low 2017-01-26 07:23:43.000	SP8	1/26/2017 7:23:43 AM	1/26/2017 7:32:13 AM	Acknowledged
Gas Tank Level Low 2017-01-26 07:34:13.000	SP8	1/26/2017 7:34:13 AM	1/26/2017 7:36:13 AM	Acknowledged
Engine Temperature High 2017-01-26 08:25:13.000	SP6	1/26/2017 8:25:13 AM	1/26/2017 8:25:43 AM	Acknowledged
Engine Temperature High 2017-01-26 08:29:43.000	SP6	1/26/2017 8:29:13 AM	1/26/2017 8:57:13 AM	Acknowledge

Asset Comparison Table

Asset	Manufacturer	Driver	Engine RPM	Load	Status
Mine Truck 1	Caterpillar	Jason Rice	0	0	Running
Mine Truck 2	Volvo	Tommy TooFast	0	0	Running
Mine Truck 3	Komatsu	Edna Thompson	1,682.6	159.87	Running
Mine Truck 4	Caterpillar	Revill Swivel	0	0	Running
Mine Truck 5	Volvo	John Sintias	0	0	Running
Mine Truck 6	Komatsu	Steve Kwan	1,744.9	194.14	Running
Mine Truck 7	Volvo	Brian Bostwick	0	0	Running
Mine Truck 8	Caterpillar	Steve Kia	0	0	Running
Mine Truck 9	Caterpillar	Justin Brown	0	0	Running
Mine Truck 10	Volvo	Bob Bonkers	1,719.7	157.74	Running

XY Plot



Answering Enterprise Questions



Answering enterprise questions

Connectivity

Connectors



Embedded Connectors



Edge Historian



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Manual Logger

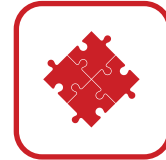


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Questions customers want to answer



What is my overall production in each region over the last year? How does this change over time?



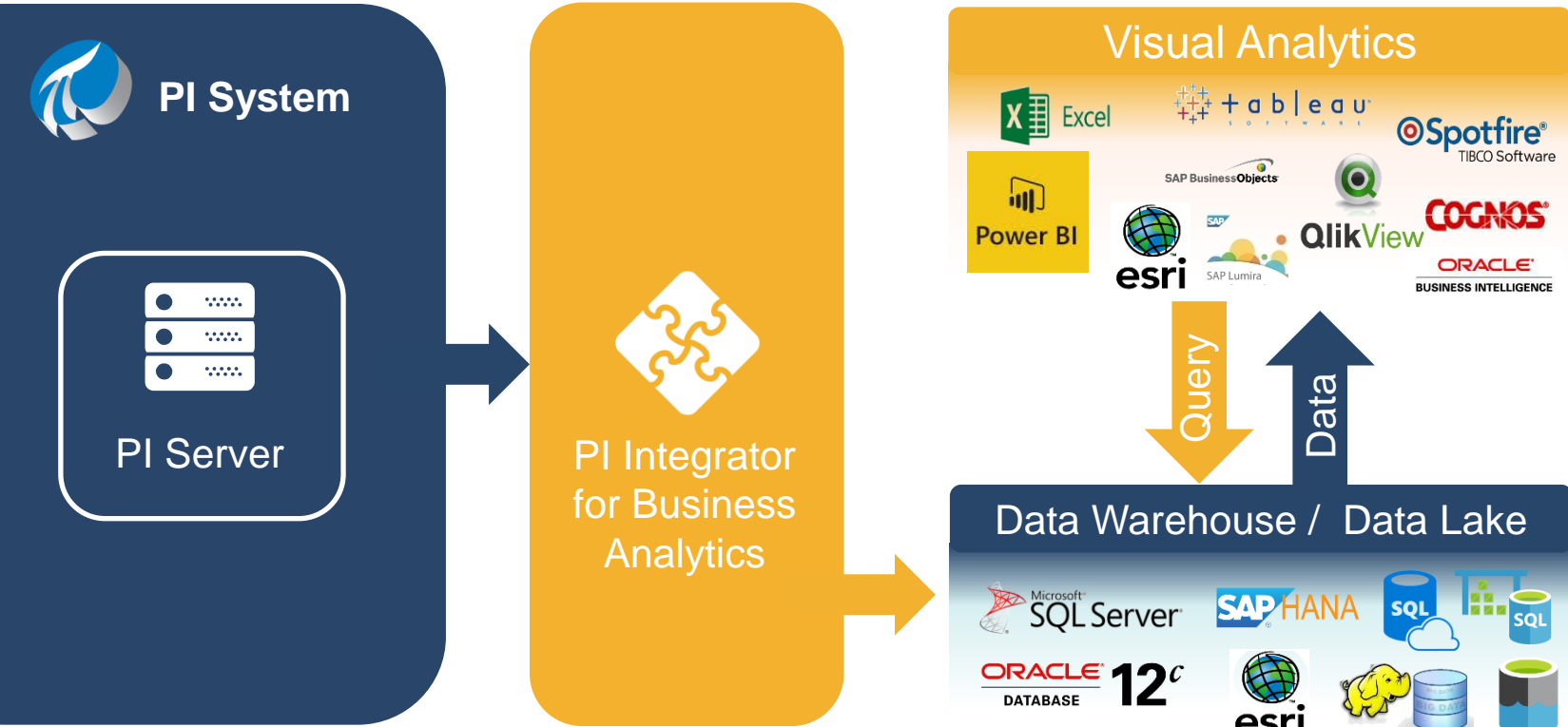
Did I produce within my compliance goals?
When did I not comply?
On which assets?



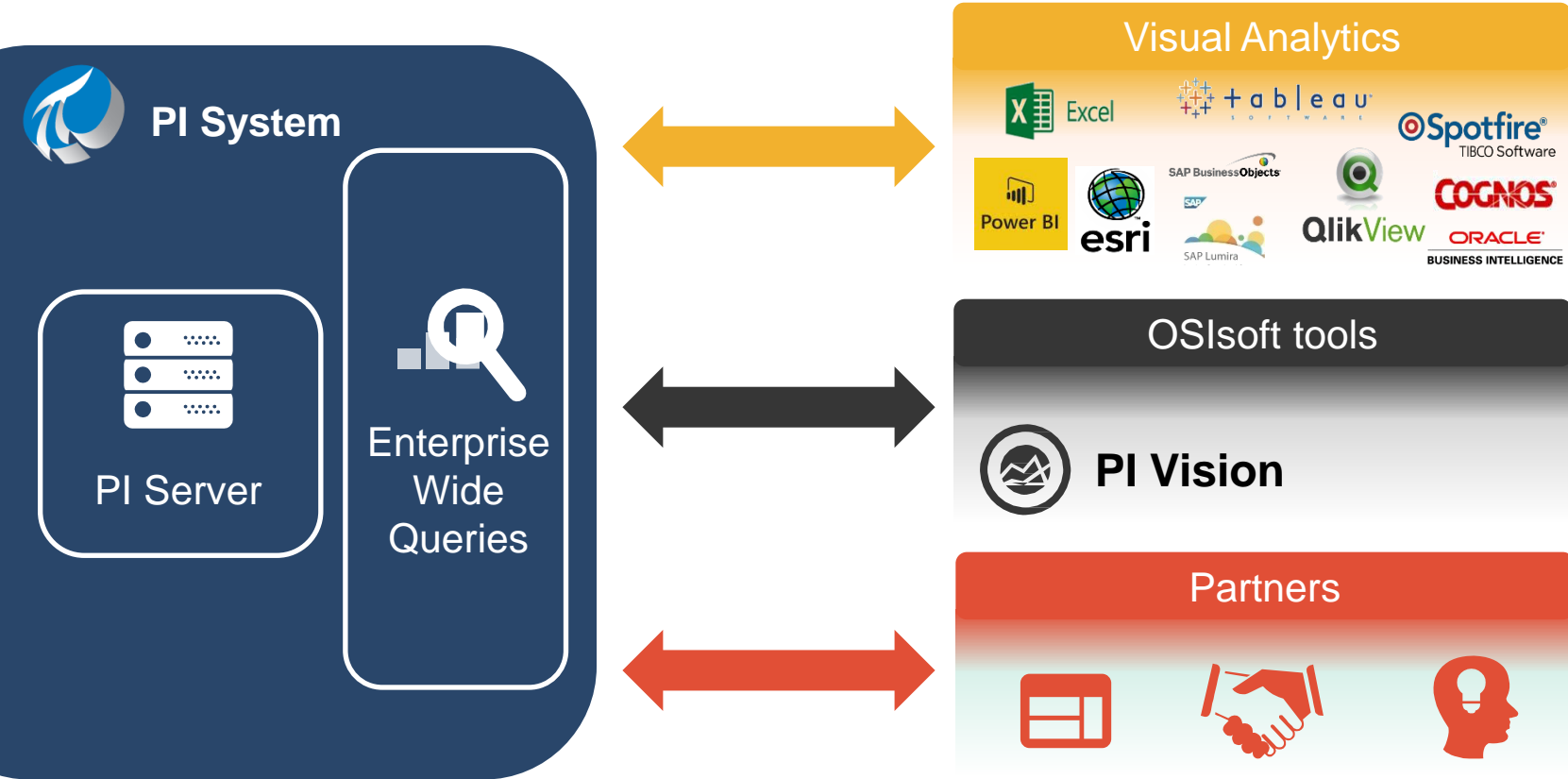
What assets are performing the best and worst? What factors are contributing to that performance? Which assets are most in need of maintenance?



They do this today using PI + Integrators



Direct Access from PI Vision, Partner Apps, and BI Tools





Complementary Cloud Services



Creating added value for our customers

Connectivity

Connectors



Embedded Connectors



Edge Historian



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Project Vision



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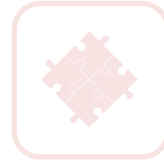


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Enterprise wide Streaming Queries



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Cloud Connect



Data Sharing



Display Sharing



감사합니다

谢谢

Danke

Merci

Gracias

Thank You

ありがとう

Спасибо

Obrigado



Contact Information

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OSIsoft, LLC



Questions?

Please wait for the **microphone** before asking your questions



Please state your **name & company**

Please don't forget to...

complete the Post
Event Survey

