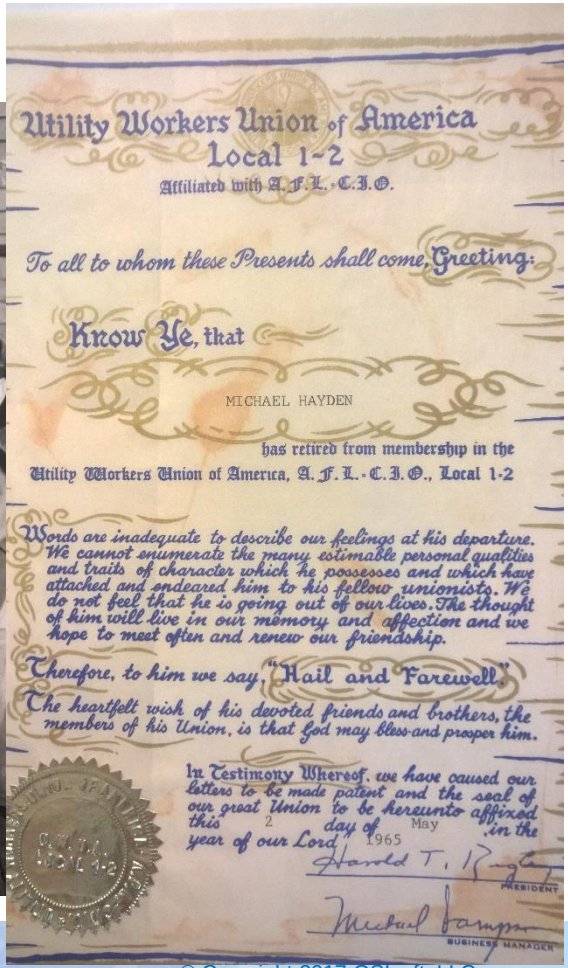
OSIsoft Product Roadmap

Mike Hayden

November 8, 2017

Welcome and thank you for attending



Utility Workers Union of America
Local 1-2
Affiliated with A. F. L. - C. I. O.

To all to whom these Presents shall come, Greeting:

Know Ye, that

MICHAEL HAYDEN

has retired from membership in the Utility Workers Union of America, A. F. L. - C. I. O., Local 1-2

Words are inadequate to describe our feelings at his departure. We cannot enumerate the many estimable personal qualities and traits of character which he possesses and which have attached and endeared him to his fellow unionists. We do not feel that he is going out of our lives. The thought of him will live in our memory and affection and we hope to meet often and renew our friendship.

Therefore, to him we say, "Hail and Farewell."

The heartfelt wish of his devoted friends and brothers, the members of his Union, is that God may bless and prosper him.

In Testimony Whereof, we have caused our letters to be made patent and the seal of our great Union to be hereunto affixed this 2 day of May in the year of our Lord 1965

Harold T. [illegible] PRESIDENT

[illegible] BUSINESS MANAGER

Official Roadmap

OSIsoft. Tech Support

My Support | Contact Us

Things to Do

- Generate a License File
- Open a New Support Case
- Download Software
- Update My Profile

Featured Products	Q1 2017	Q2 2017	Q3 2017	▼	Q1 2018	Q2 2018	Q3 2018 - Q4 2018	Q1 2019 - Q2 2019
Cloud Services	Q1 2017	Q2 2017	Q3 2017	Q4 2017	Q1 2018	Q2 2018	Q3 2018 - Q4 2018	Q1 2019 - Q2 2019
PI Cloud Connect		■						
Visualization View more	Q1 2017	Q2 2017	Q3 2017	Q4 2017	Q1 2018	Q2 2018	Q3 2018 - Q4 2018	Q1 2019 - Q2 2019
PI Vision		●		●				
PI DataLink		●		■				
PI Manual Logger			●				●	
PI ProcessBook		■		■	●			
RtReports				●		●		
PI Coresight		●						
Integrators	Q1 2017	Q2 2017	Q3 2017	Q4 2017	Q1 2018	Q2 2018	Q3 2018 - Q4 2018	Q1 2019 - Q2 2019
PI Integrator for Business Analytics		■		●				
PI Integrator for Esri ArcGIS				●				
PI Integrator for SAP HANA		●						
PI Integrator for Microsoft Azure		■		●				
Developer Technologies	Q1 2017	Q2 2017	Q3 2017	Q4 2017	Q1 2018	Q2 2018	Q3 2018 - Q4 2018	Q1 2019 - Q2 2019
PI Web API		●		●				
PI ODBC Driver								
PI OLEDB Provider				■				
PI OPC HDA Server								
PI AF SDK		●		●				
PI OLEDB Enterprise				■				
PI JDBC Driver	■			●				
PI OPC DA Server	●							
PI Server View more	Q1 2017	Q2 2017	Q3 2017	Q4 2017	Q1 2018	Q2 2018	Q3 2018 - Q4 2018	Q1 2019 - Q2 2019
PI Data Archive		●	■	●				
PI AF		●		●				
Notifications		●		●				
PI ACE								
PI for StreamInsight								
PI System Health						●	●	
PI System Directory				●		●		
Interfaces & Connectors View more	Q1 2017	Q2 2017	Q3 2017	Q4 2017	Q1 2018	Q2 2018	Q3 2018 - Q4 2018	Q1 2019 - Q2 2019

The OSIsoft Portfolio

Connectivity

Connectors / Interfaces

Embedded Connectors

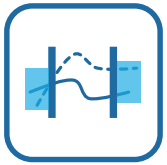
Edge Historian

Enterprise

Notifications

Server

Event Frames



Asset Analytics

Developer Technologies

Health Tooling

Visualization

Vision

Manual Logger

Datalink

Integration

BA

Esri

SAP

Microsoft

Streaming

Enterprise wide Queries

Cloud Services

Cloud Connect

Data Sharing

Display Sharing

Accessing Operational Data

OSIsoft is the source for operational data: Connectivity

Connectivity

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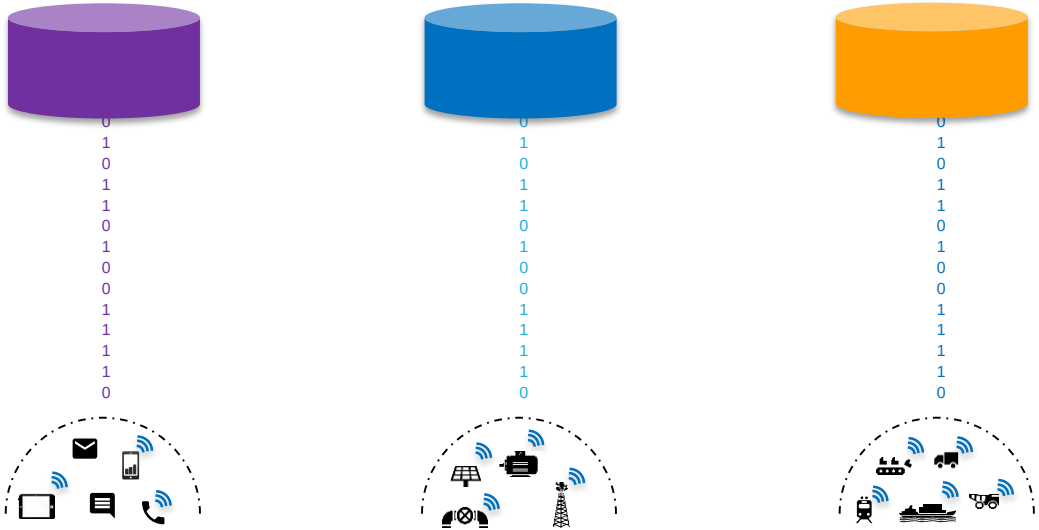
The Industrial Internet of Things (IIoT) has inherent risks and challenges

Data Silos

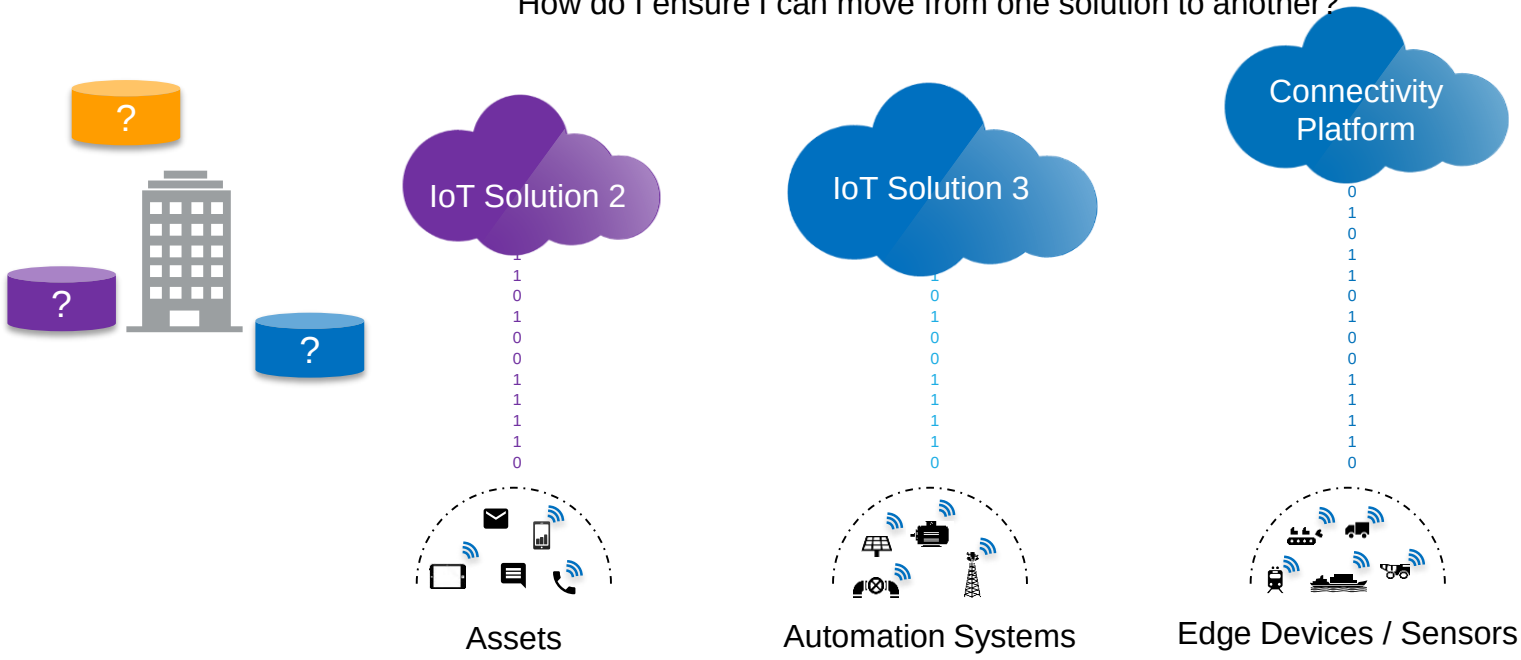
One version of the truth?
Data is isolated from other use cases
Data management challenges



IIoT risks and challenges: Data Ownership

Data Ownership

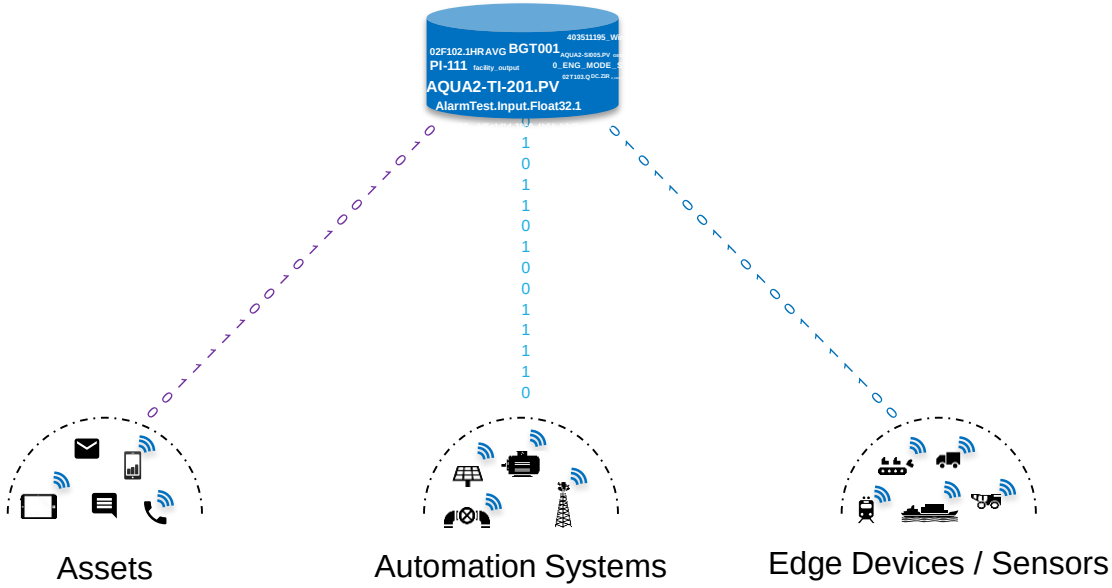
Do I have access to my own data?
How do I ensure I can move from one solution to another?



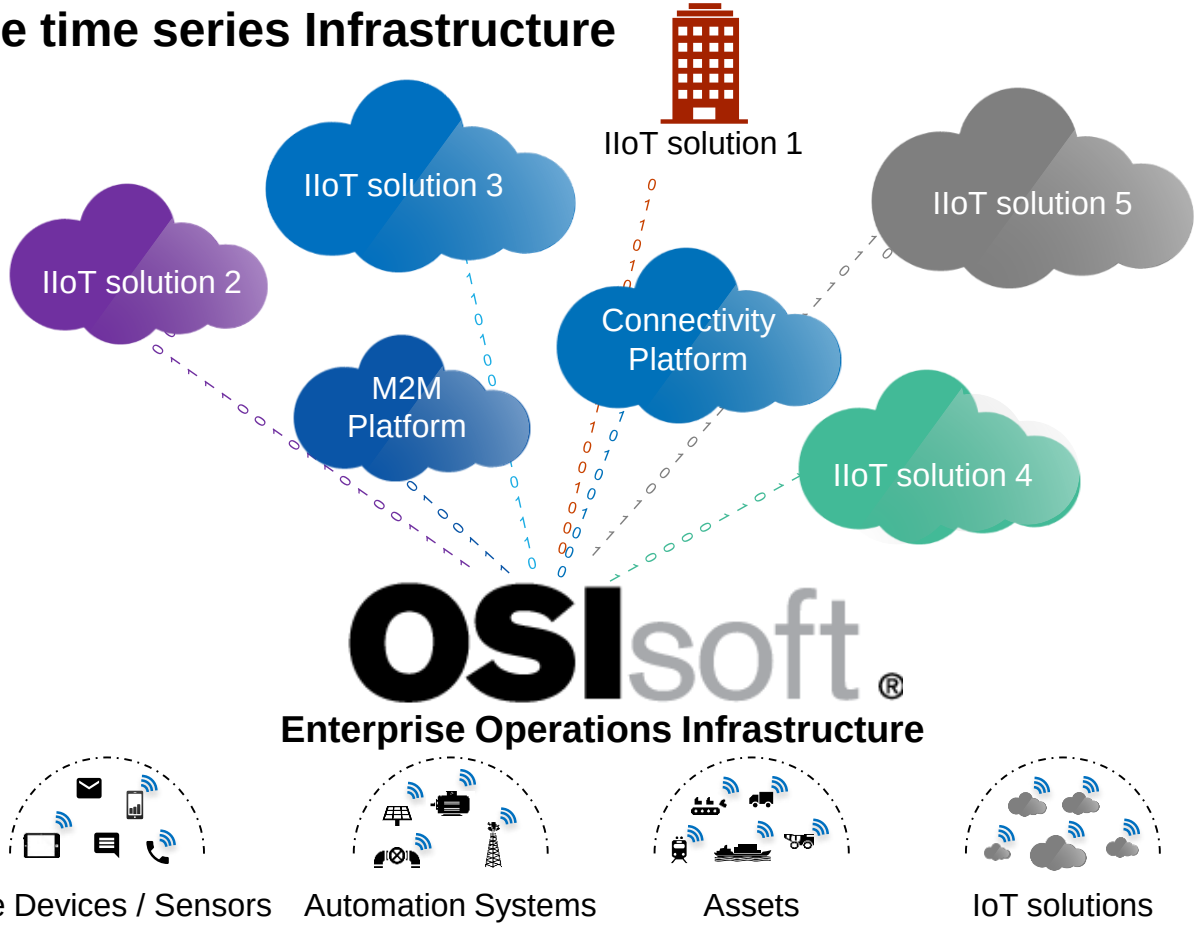
IIoT risks and challenges: Data Context

Data Context

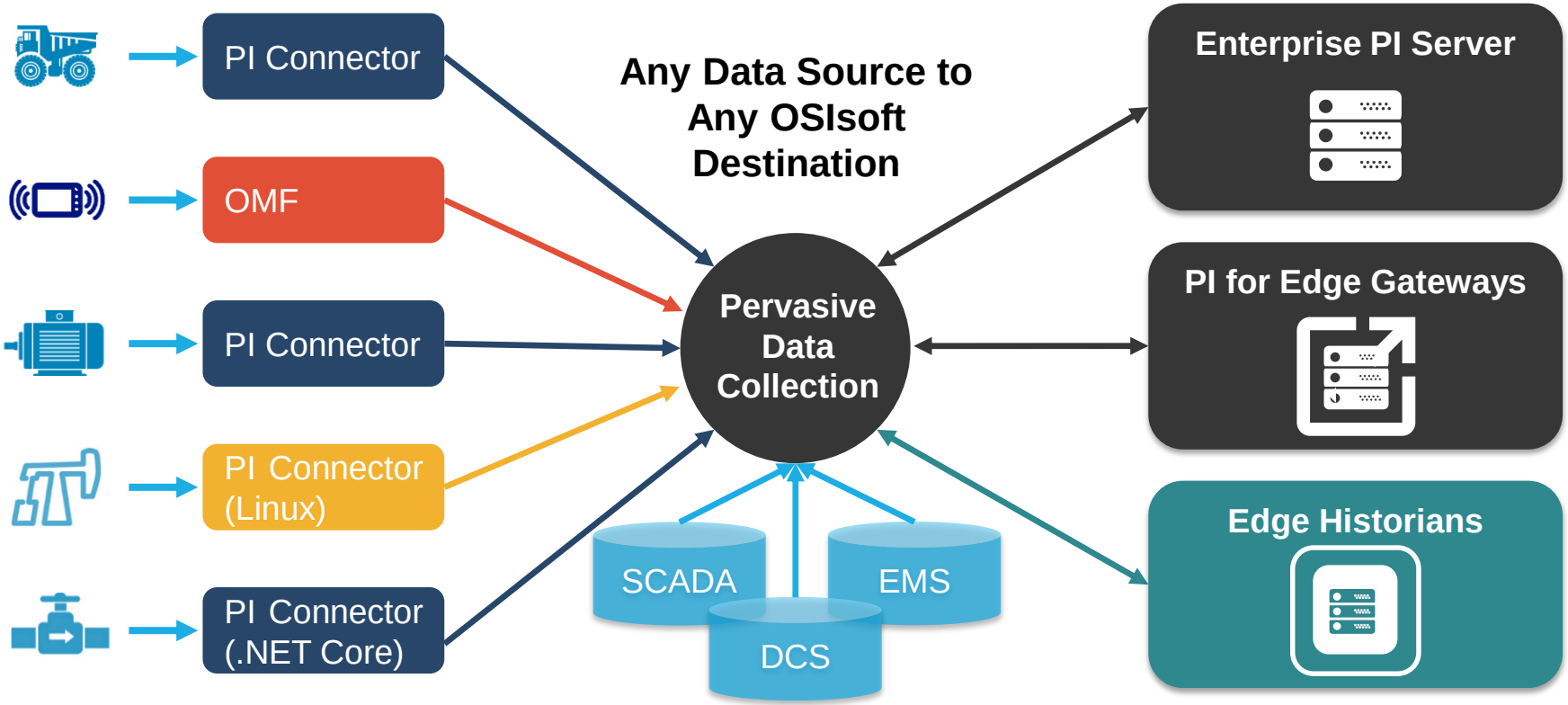
Understanding the criteria to analyze data is as important as the data itself
The further data moves from SME's the more important context is



Extending the time series Infrastructure



OT Data Ownership



Partner Enablement

Monico
(OMF application)

Dell
(PI System deployment)

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

HPE
(PI System deployment)

Partners
(PI Connector on Linux (native))

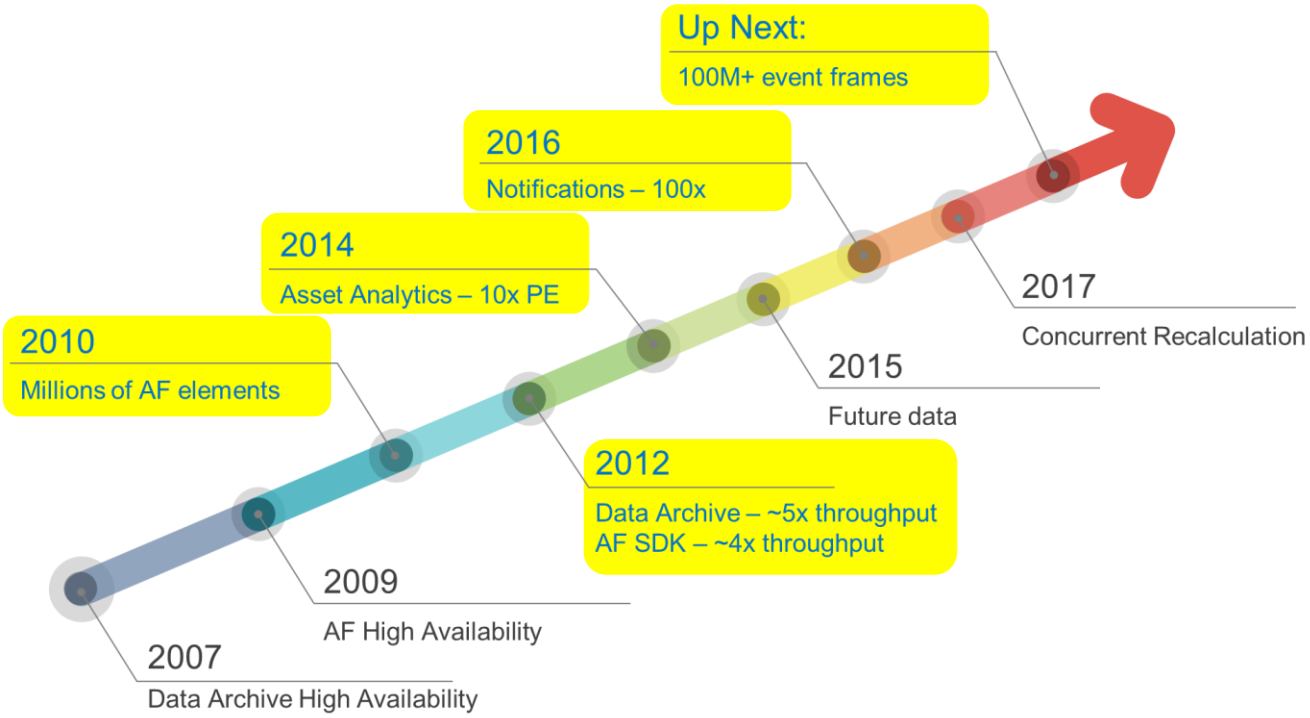
Stratus IoT Solutions
(OMF application)

Evolution of the Enterprise

Expand the PI System: Performance and Scalability

Expand

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



Extend the PI System: Data Quality

Extend

Associate **quality** information with measured values

Data Collection

Collect quality information from source systems

Storage

Natively associate quality information with data

Asset Analytics

Calculations take into account quality of inputs

Developer's Technology

Ingress and egress of data with quality via programmatic means

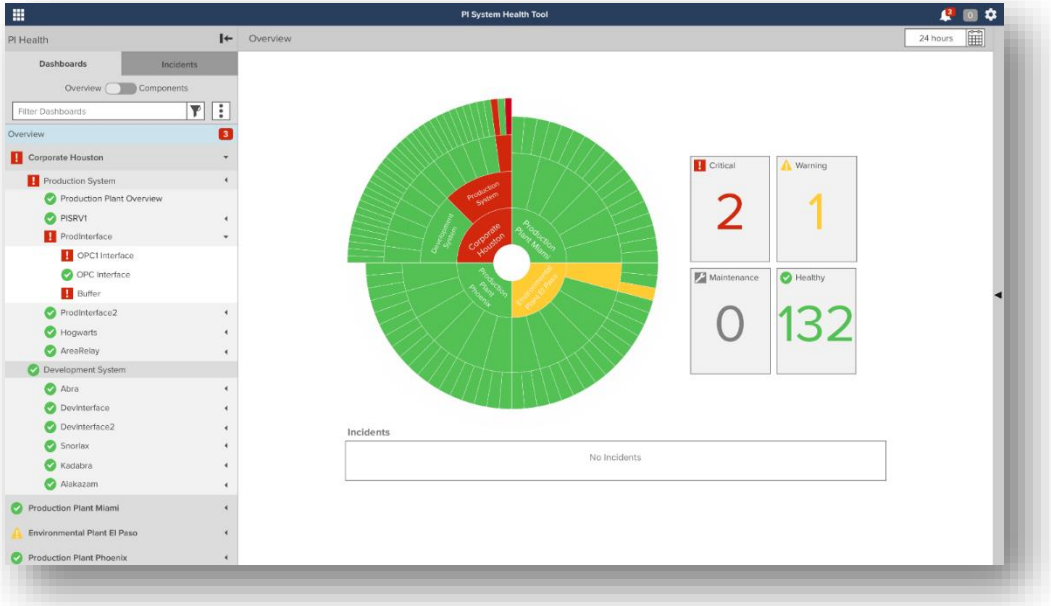
Visualization

Display data with quality information

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 Platform

Today

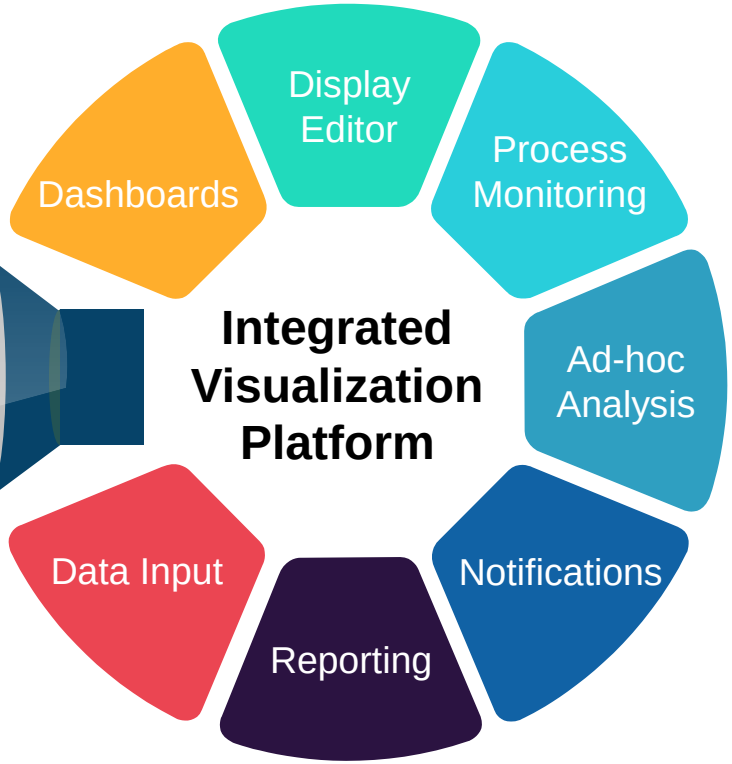
PI ProcessBook
Display Editor
Process Monitoring

PI Coresight
Ad Hoc Analysis
PB Display Viewer

PI WebParts
Dashboards

PI Manual Logger
Manual Data Entry

Tomorrow



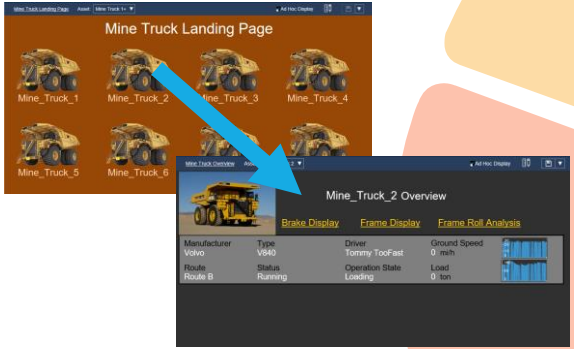
One Vision:

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

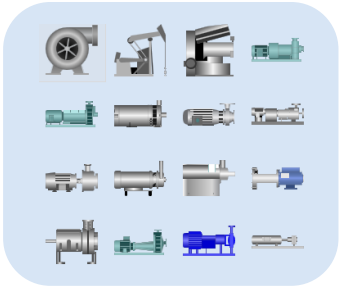
PI Vision 2017

Collections

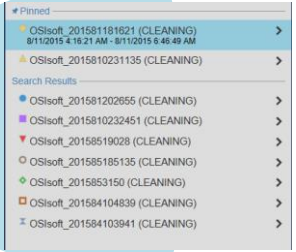
Drill-in Navigation



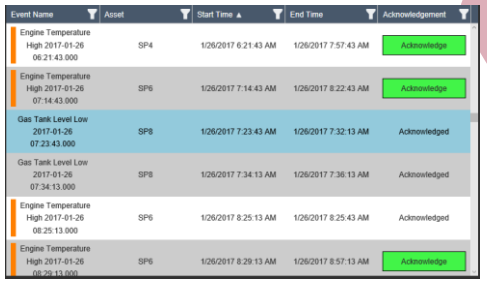
Graphic Library



Pinned Events



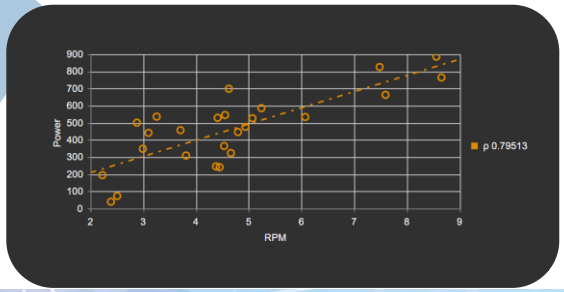
Events Table



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 Sintilas	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



Enterprise Wide Queries

Answering enterprise questions

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Questions customers want to answer

Deep Query Vs. Wide Query

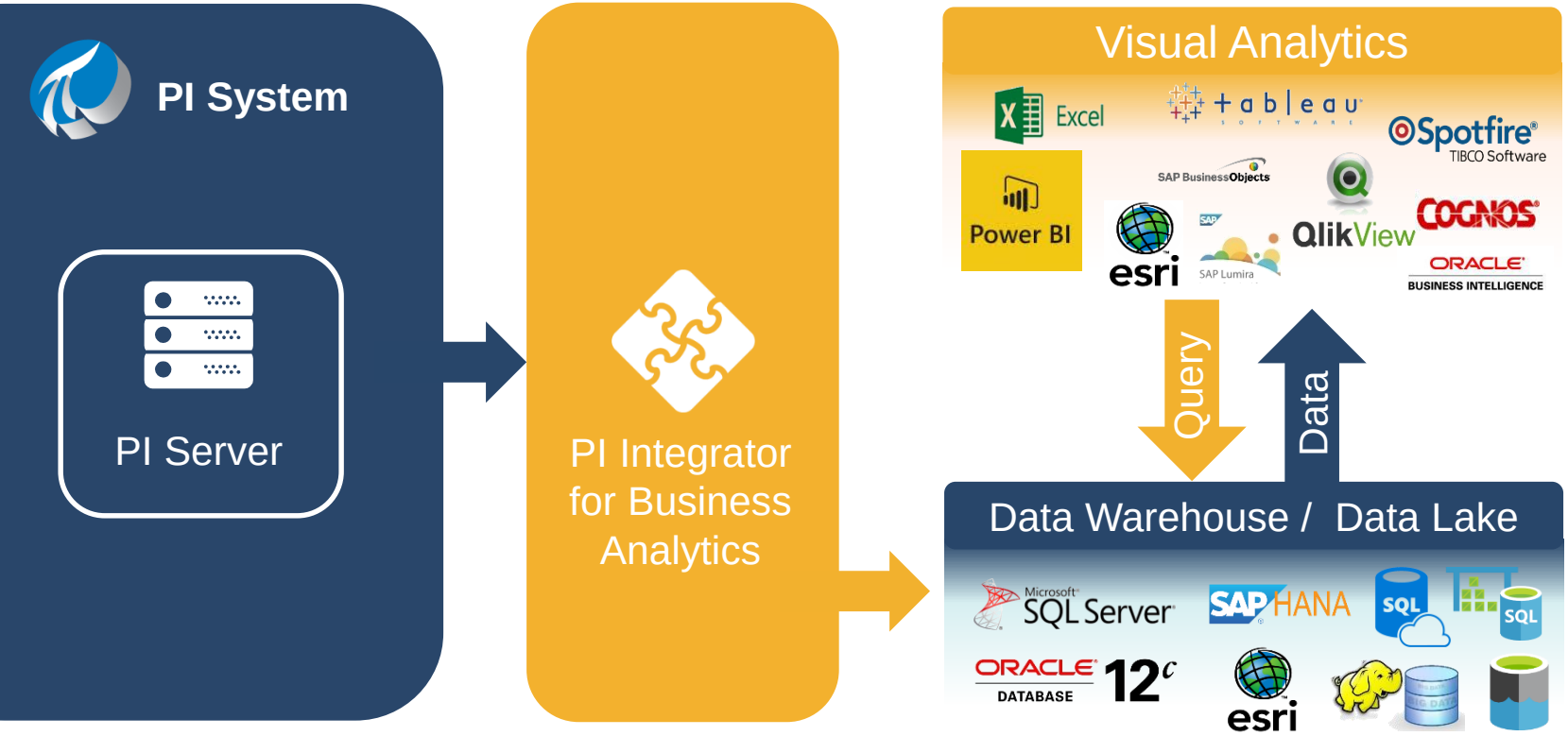
What is a Deep Query vs. A Wide Query

- Deep Query = For the meter at 123 Washington St., which days in the last 20 years had missing readings?
- Wide Query = Which meters in Zip Code 01234 had missing readings yesterday?

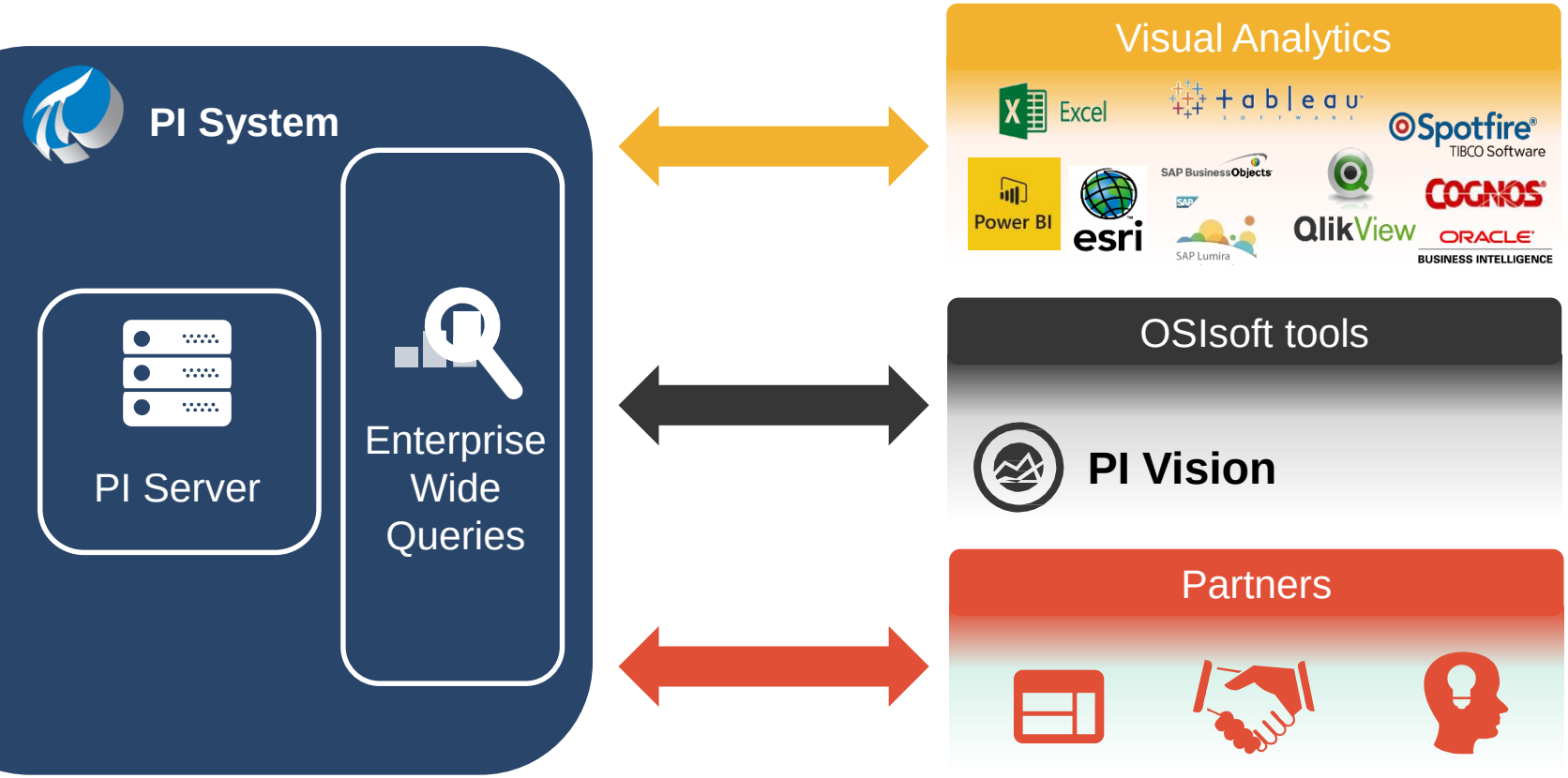
Types of Wide Queries

- Fleet Asset Performance
- Pattern Searches
- Aggregates across assets
- Performance diagnosis
- Asset Maintenance Diagnosis

Can be answered today using PI + Integrators



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



Complimentary positioning

Integrators

Blend operational data with business data for complex analyses

Enterprise Wide queries

Native query surface for fleet wide questions

APIs

Open APIs for custom built solutions needing to query PI

Complementary Cloud Services

Creating added value for our customers

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감사합니다

谢谢

Danke

Gracias

Merci

Thank You

ありがとう

Спасибо

Obrigado

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