OSIsoft

Regional Summit 2017

May 2-4, 2017 | West Palm Beach, FL

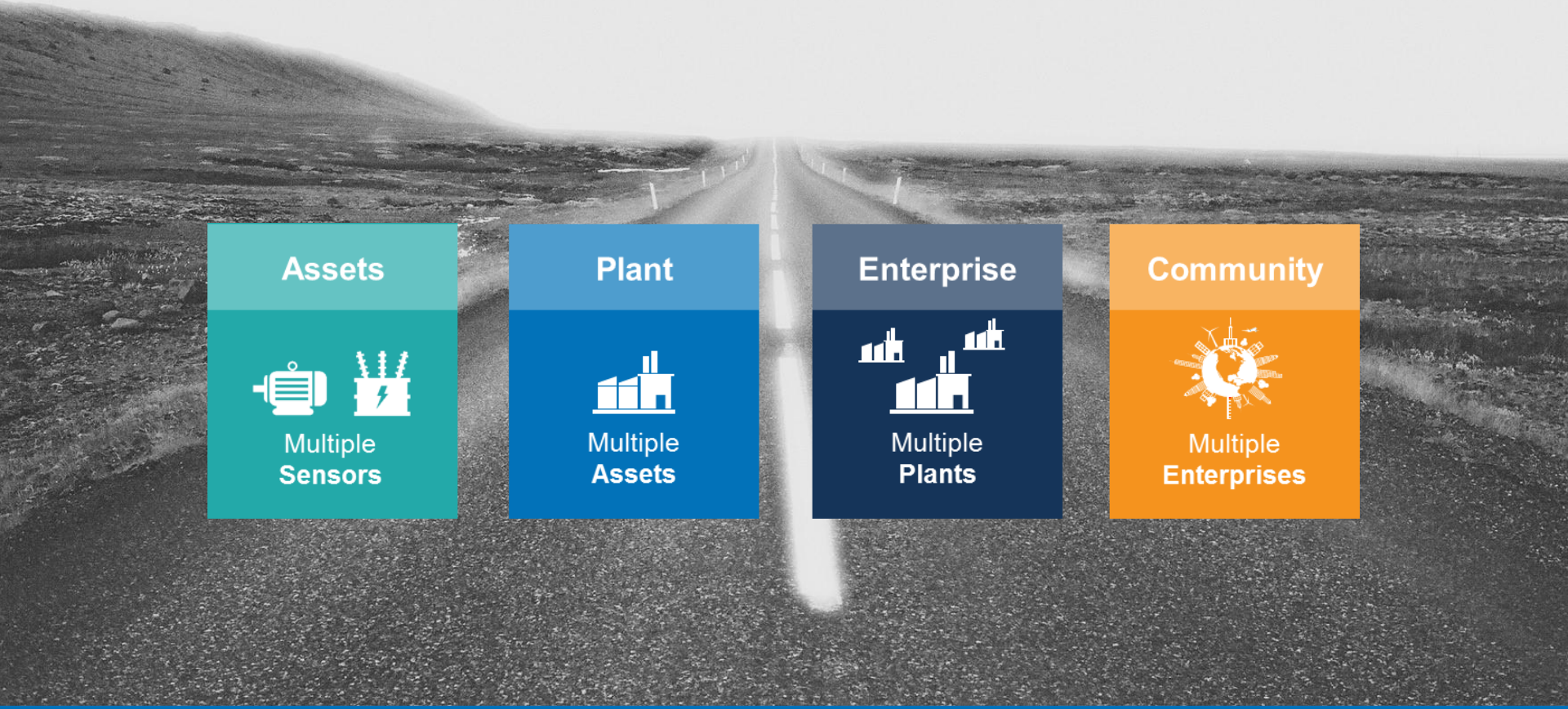
© Copyright 2017 OSIsoft, LLC

OSIsoft Product Roadmap

Presented by **Chris Nelson**
Director, Visualization Products

© Copyright 2017 OSIsoft, LLC

Our Vision



© Copyright 2017 OSIsoft, LLC

Expanding the OSIsoft portfolio of offerings

Connectivity

Connectors / Interfaces

Embedded Connectors

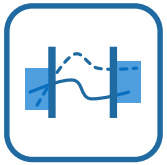
Edge Historian

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

© Copyright 2017 OSIsoft, LLC

1 Accessing Operational Data

© Copyright 2017 OSIsoft, LLC

OSIsoft is the source for operational data: Connectivity

Connectivity

Connectors / Interfaces

Embedded Connectors

Edge Historian

Enterprise

Notifications

Archive

Event Frames

Asset Analytics

Developer Technologies

Health Tool

Visualization

Vision

Manual Logger

Datalink

Integration

BA

Esri

SAP

Microsoft

Streaming

Enterprise wide Queries

Cloud Services

Cloud Connect

Data Sharing

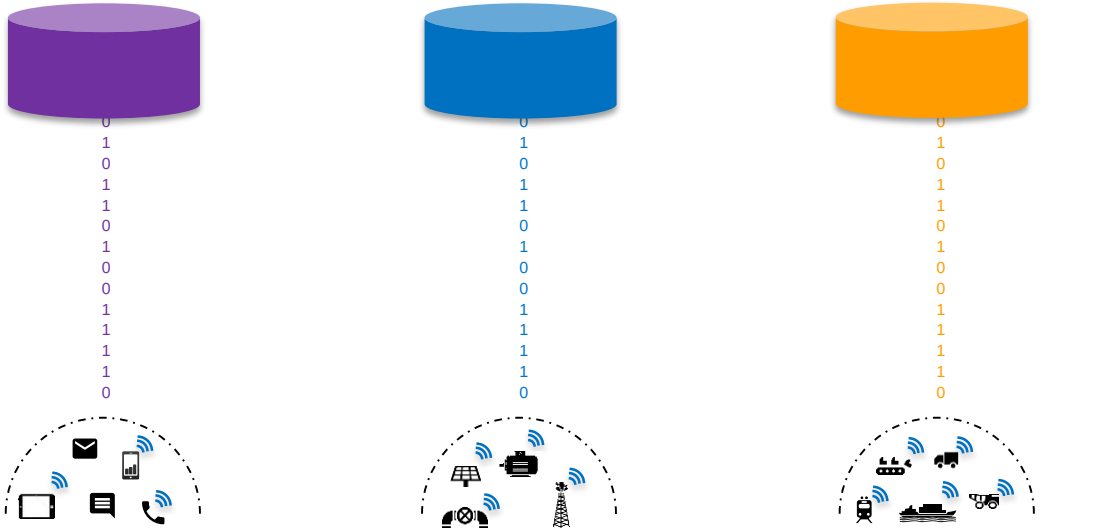
Display Sharing

© Copyright 2017 OSIsoft, LLC

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

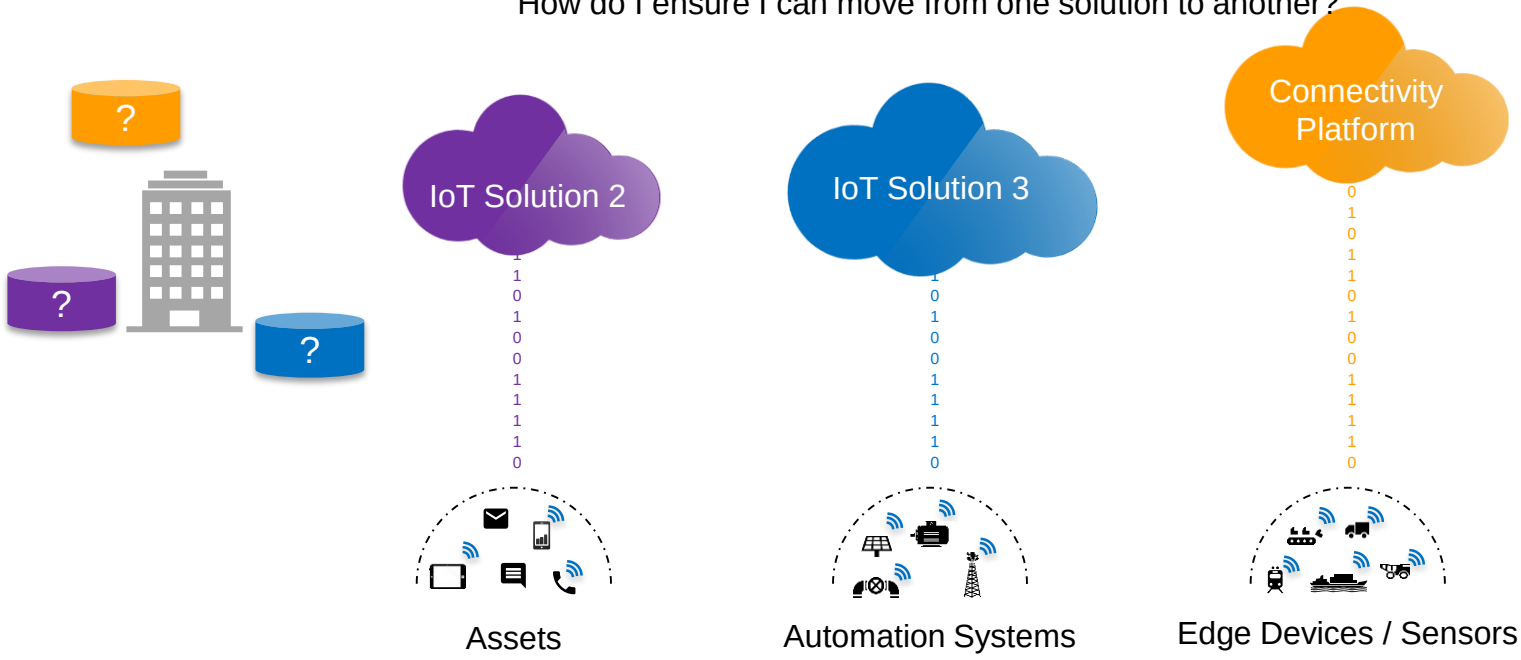


© Copyright 2017 OSIsoft, LLC

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?

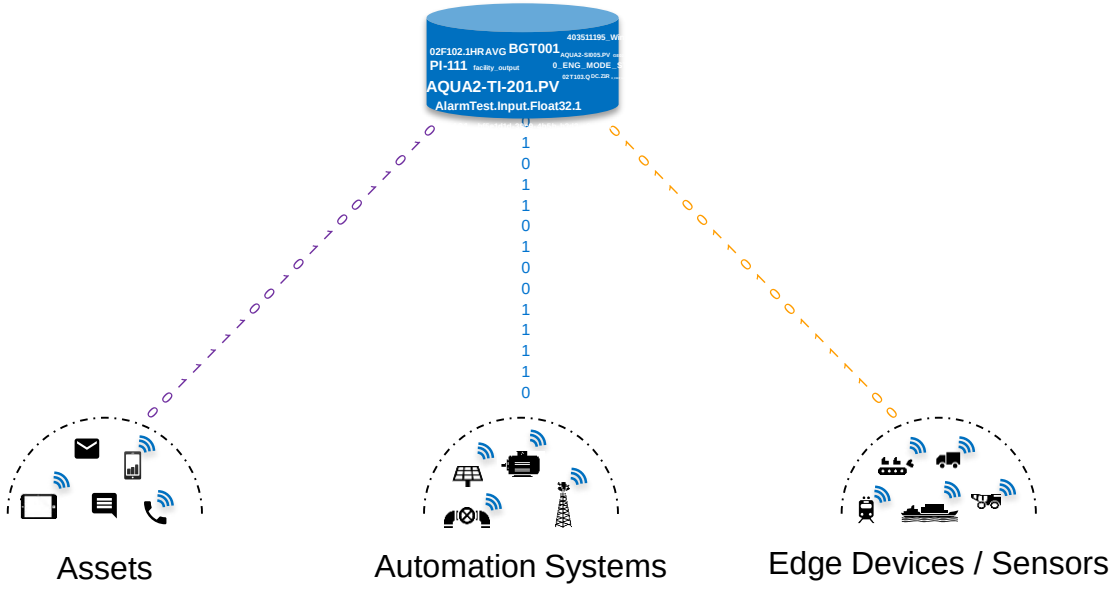


© Copyright 2017 OSIsoft, LLC

IIoT risks and challenges: Data Context

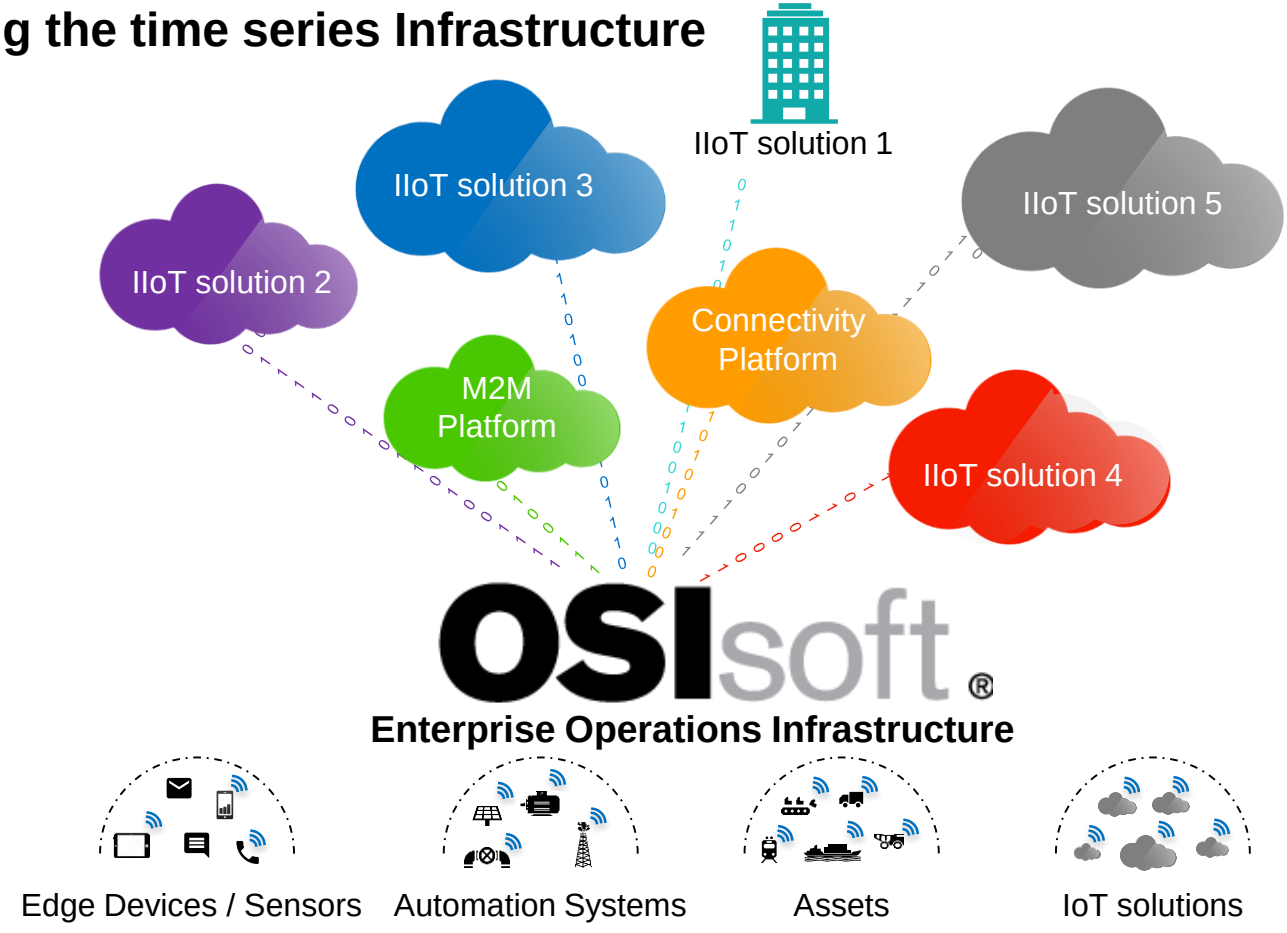
Data Context

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



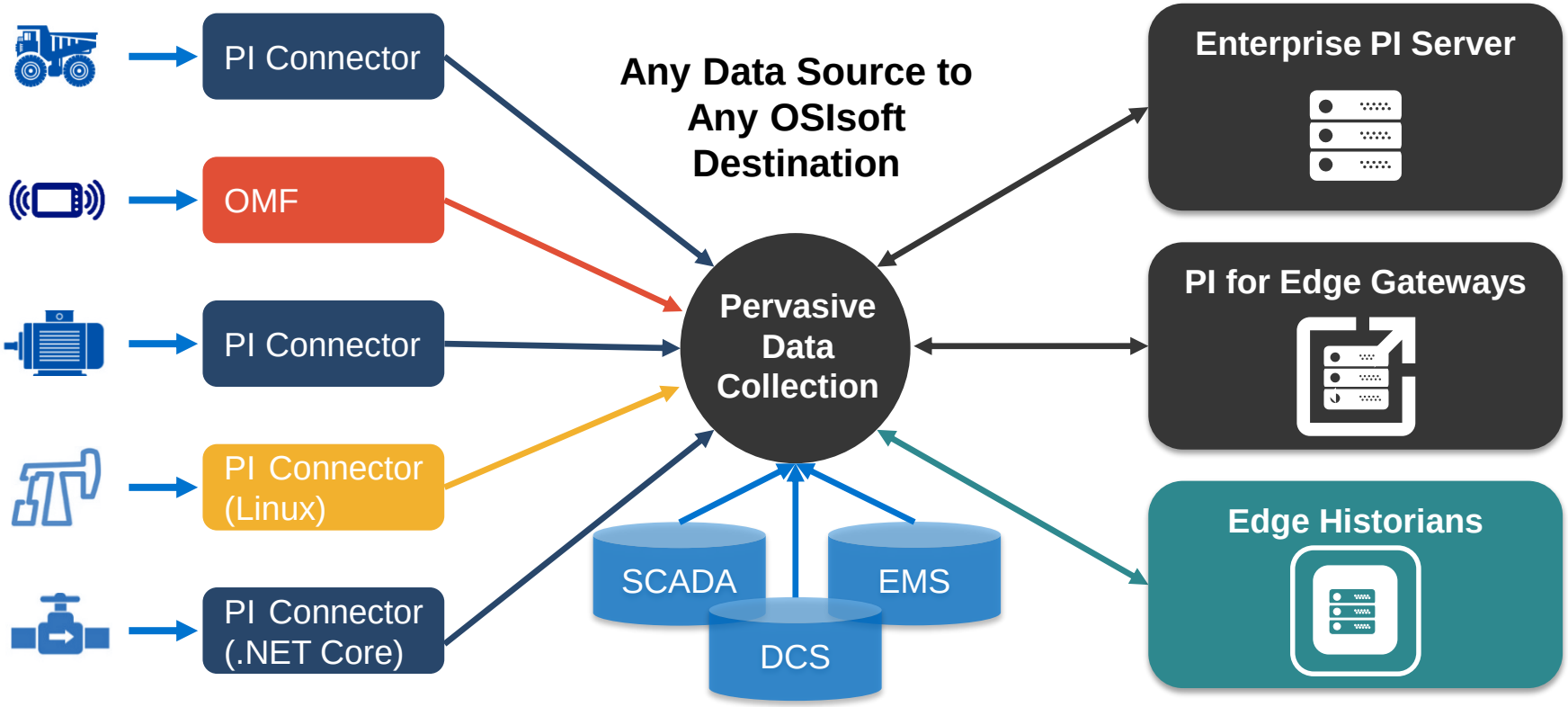
© Copyright 2017 OSIsoft, LLC

Extending the time series Infrastructure



© Copyright 2017 OSIsoft, LLC

OT Data Ownership



© Copyright 2017 OSIsoft, LLC

Partner Enablement

Monico
(OMF application)

Dell
(PI System deployment)

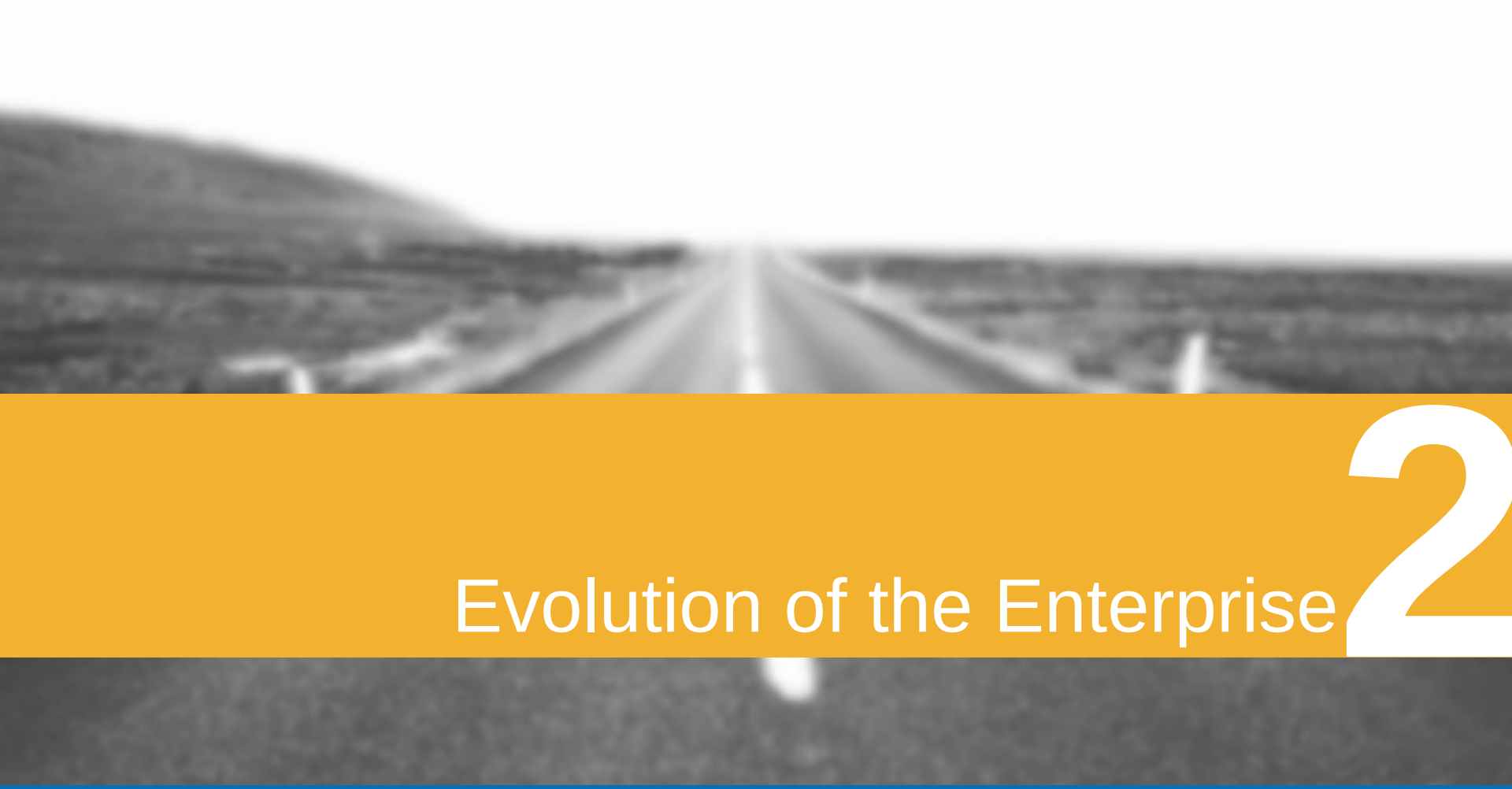
Cisco
(PI Connector on Linux (.NET Core))

HPE
(PI System deployment)

Partners
(PI Connector on Linux (native))

Stratus IoT Solutions
(OMF application)

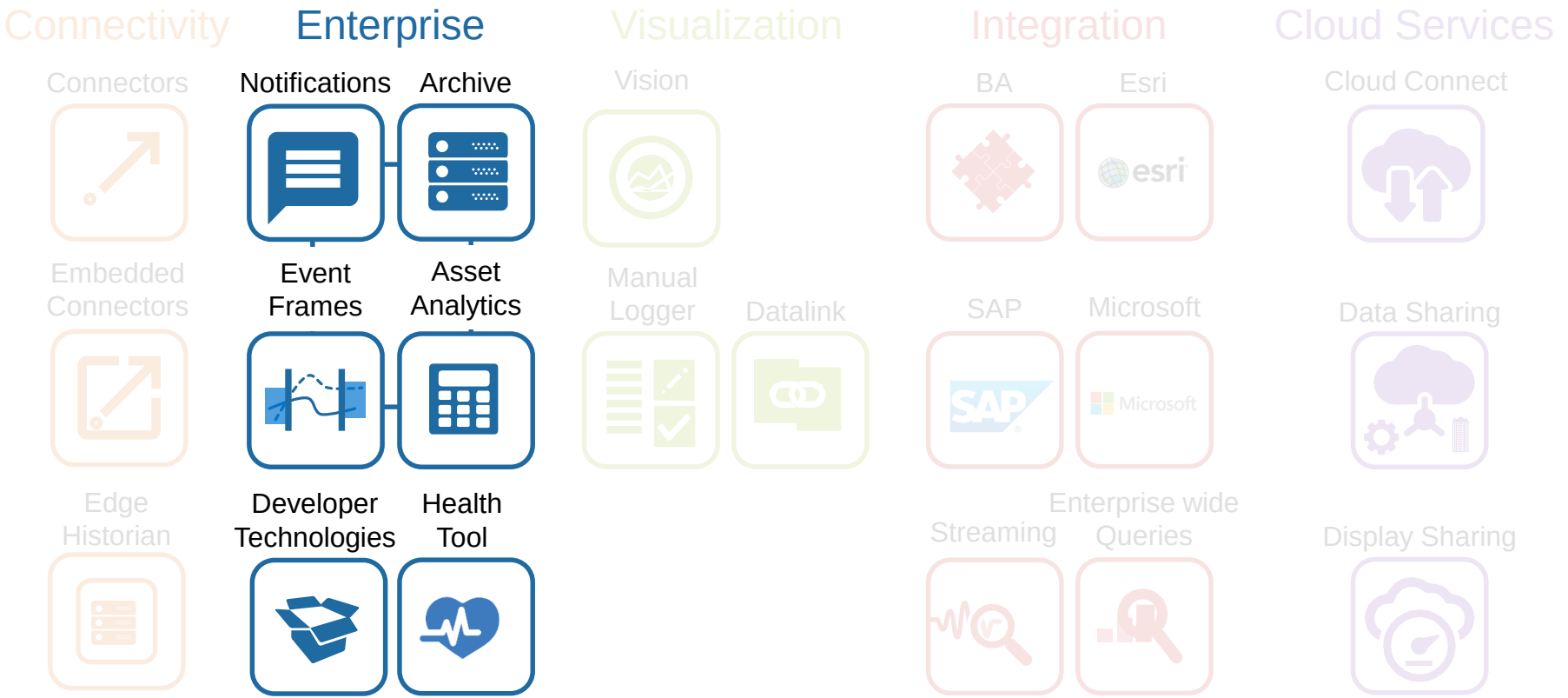
© Copyright 2017 OSIsoft, LLC



2 Evolution of the Enterprise

© Copyright 2017 OSIsoft, LLC

Strengthening the Enterprise



© Copyright 2017 OSIsoft, LLC

Initial Focus: Evolution of the PI System

Expand

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

Extend

Associate **quality** information with measured values

Ease

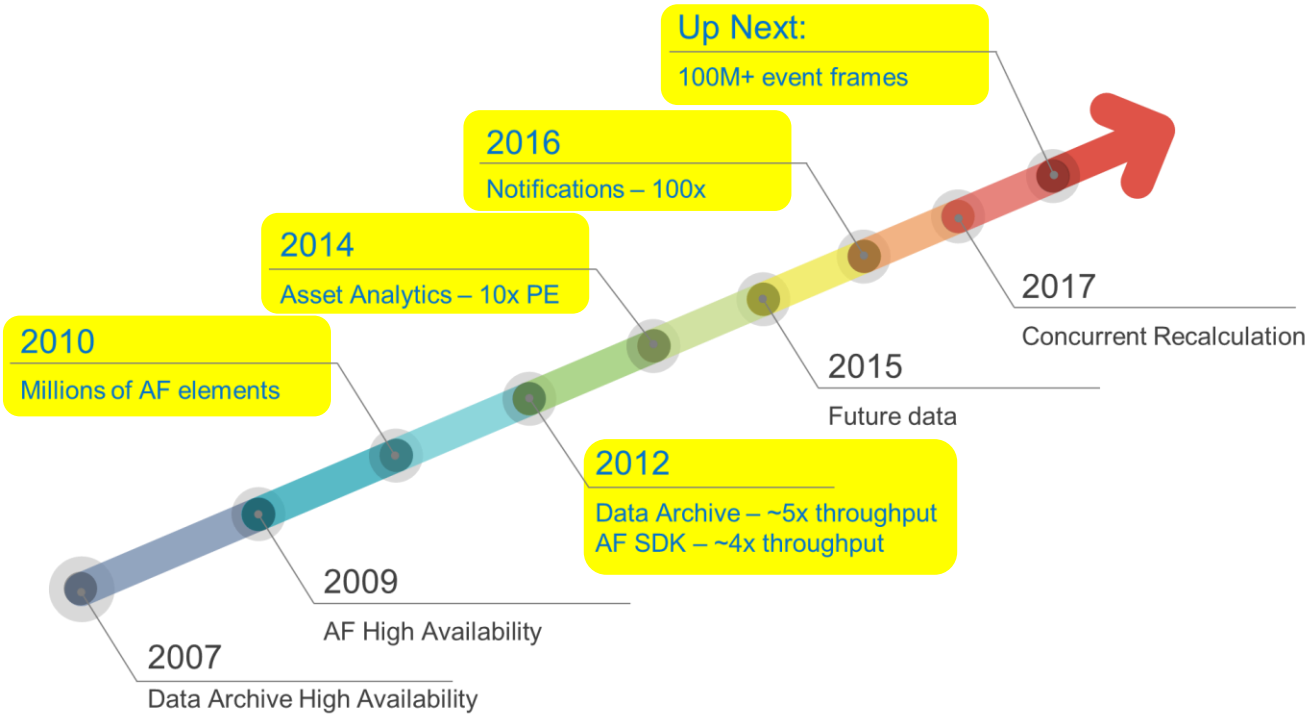
PI system tools designed to work across the enterprise

© Copyright 2017 OSIsoft, LLC

Expand the PI System: Performance and Scalability

Expand

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



© Copyright 2017 OSIsoft, LLC

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

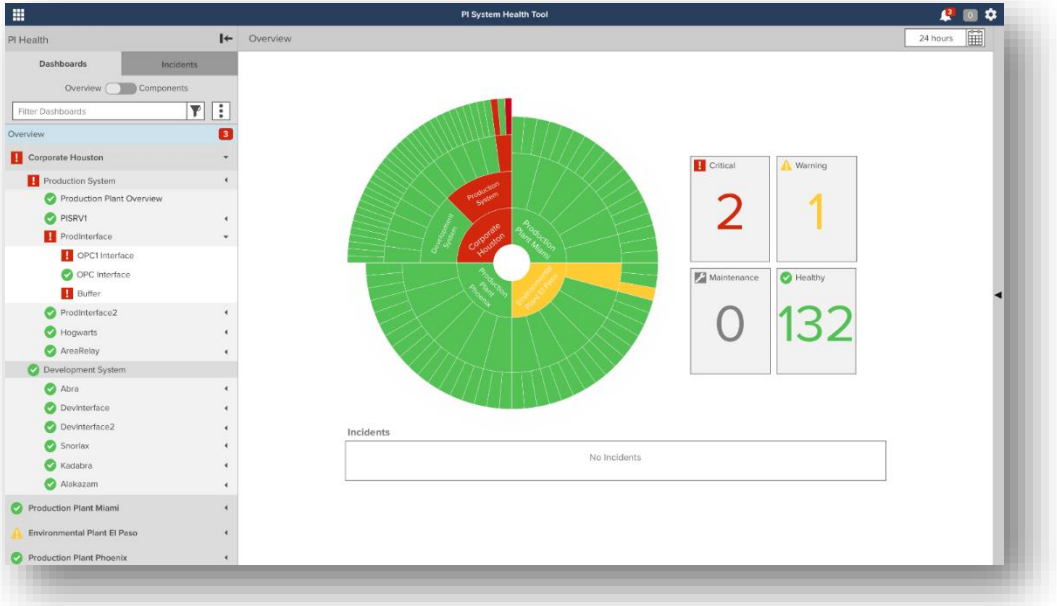
Display data with quality information

© Copyright 2017 OSIsoft, LLC

Ease of use with the PI System: Management and Administration

Ease

PI system tools designed to work across the enterprise

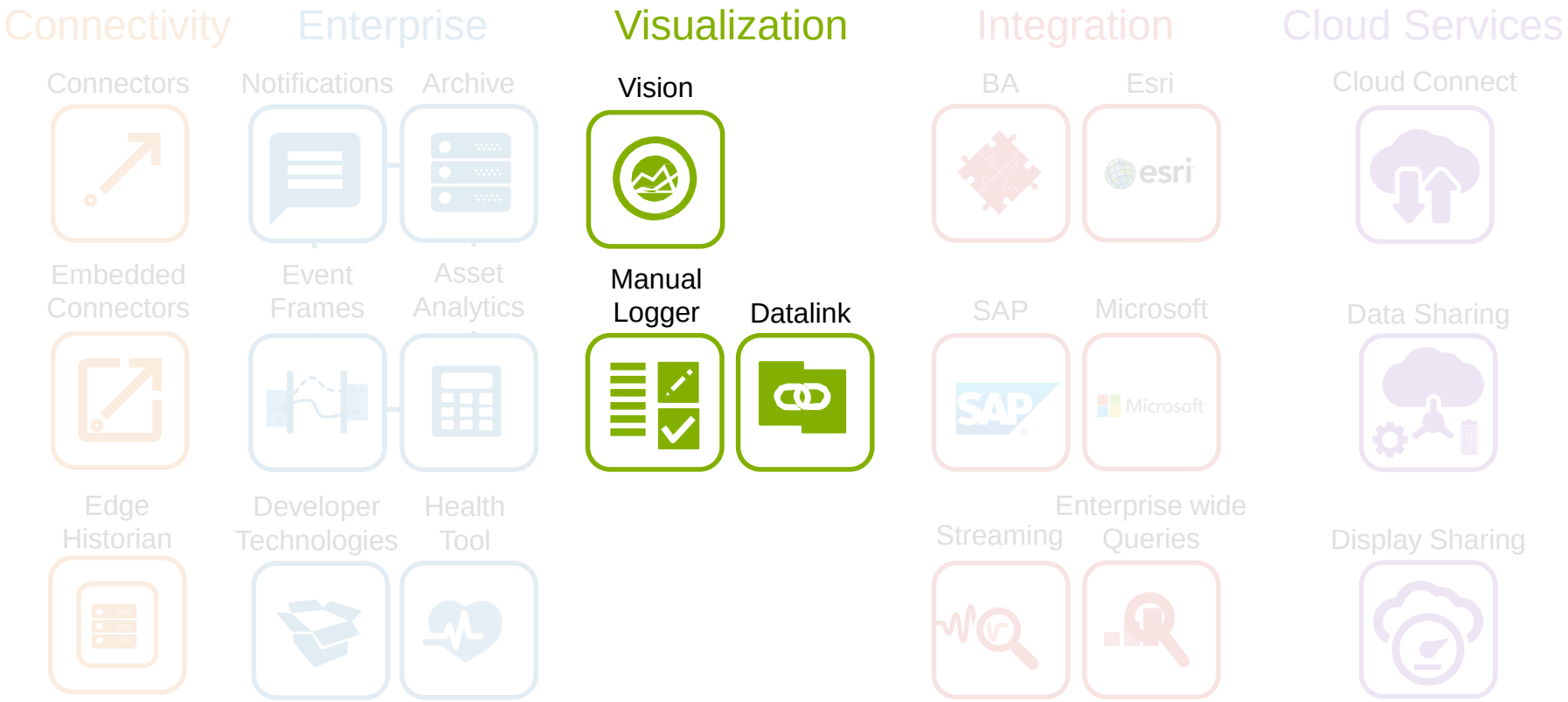


© Copyright 2017 OSIsoft, LLC

3 Visualizing Operations Data

© Copyright 2017 OSIsoft, LLC

An Integrated Visualization Strategy



© Copyright 2017 OSIsoft, LLC

An Integrated Visualization Platform

Today

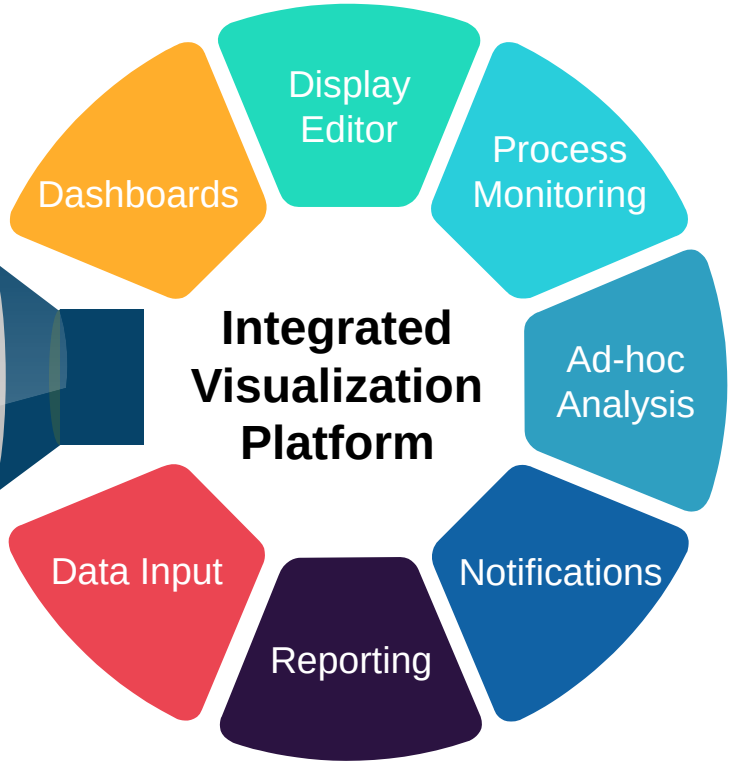
PI ProcessBook
Display Editor
Process Monitoring

PI Coresight
Ad Hoc Analysis
PB Display Viewer

PI WebParts
Dashboards

PI Manual Logger
Manual Data Entry

Tomorrow



© Copyright 2017 OSIsoft, LLC

One Vision:

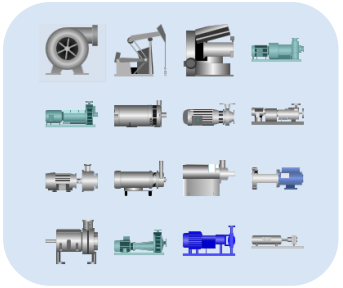
A unified visualization infrastructure to support your needs across the enterprise in a seamless, powerful, extensible environment.

© Copyright 2017 OSIsoft, LLC

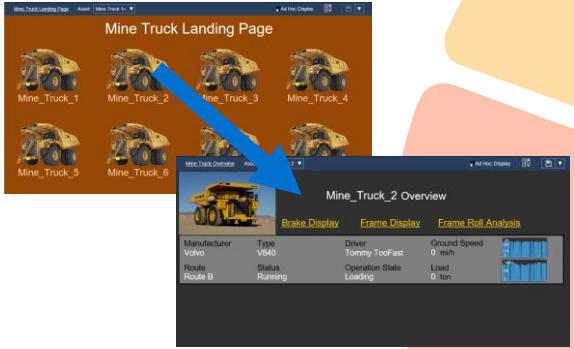
PI Vision 2017

Collections

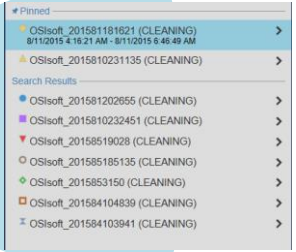
Graphic Library



Drill-in Navigation

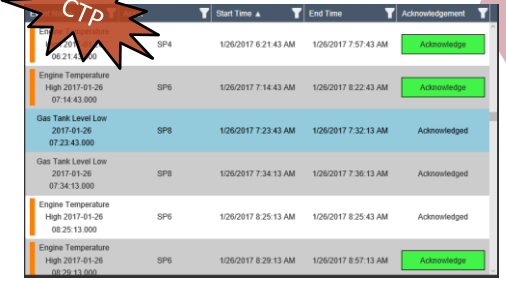


Pinned Events



Events Table

CTP

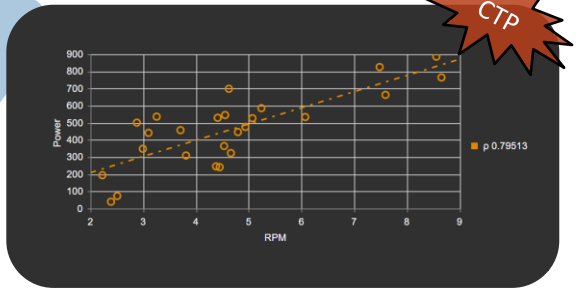


Asset Comparison Table

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

CTP



© Copyright 2017 OSIsoft, LLC

4 Answering Enterprise Questions

© Copyright 2017 OSIsoft, LLC

Answering enterprise questions

Connectivity

Connectors

Embedded Connectors

Edge Historian

Enterprise

Notifications

Archive

Event Frames

Asset Analytics

Developer Technologies

Health Tool

Visualization

Vision

Manual Logger

Datalink

Integration

BA

Esri

SAP

Microsoft

Streaming

Enterprise wide Queries

Cloud Services

Cloud Connect

Data Sharing

Display Sharing

© Copyright 2017 OSIsoft, LLC

Questions customers want to answer

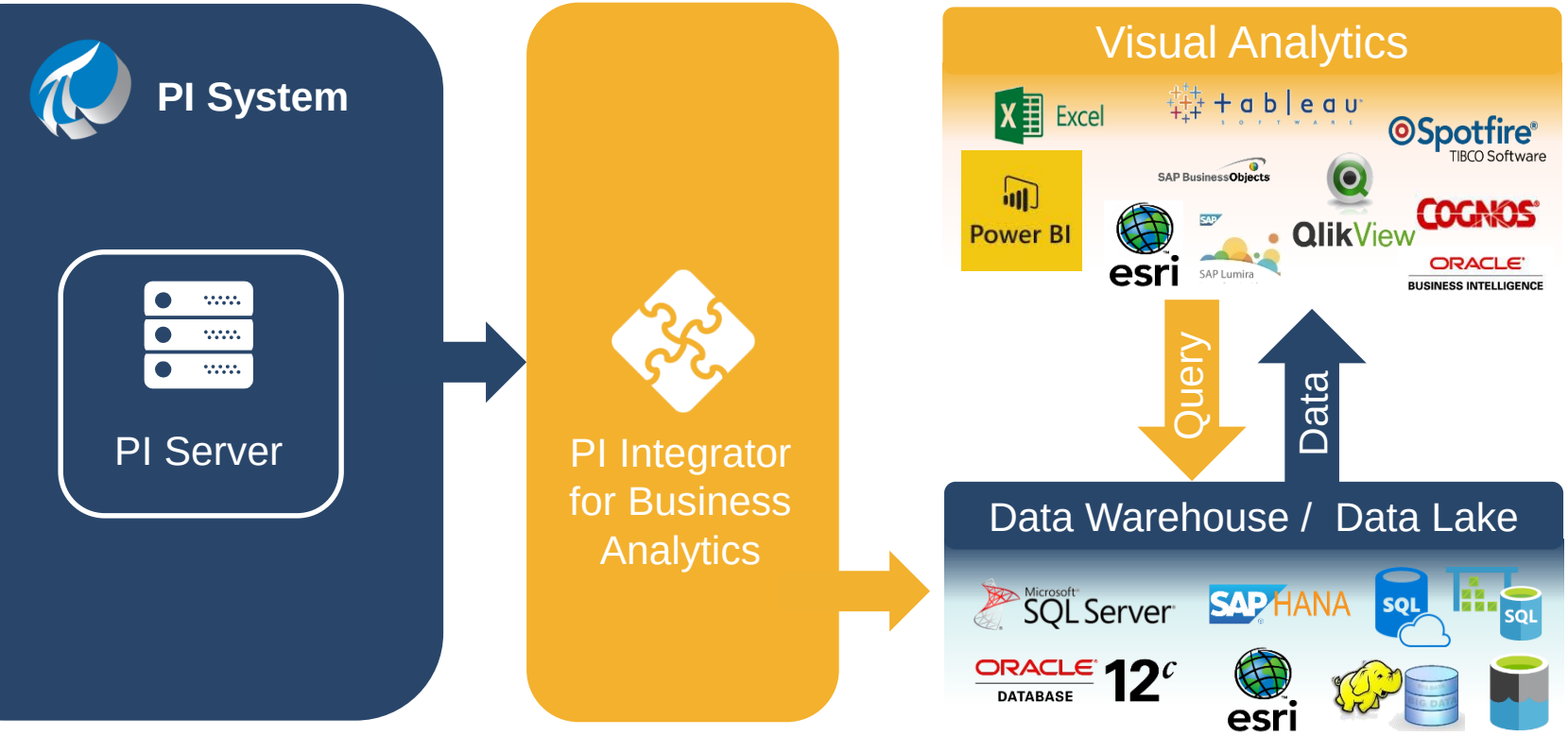
What is my overall production in each region over the last year? How does this change over time?

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?

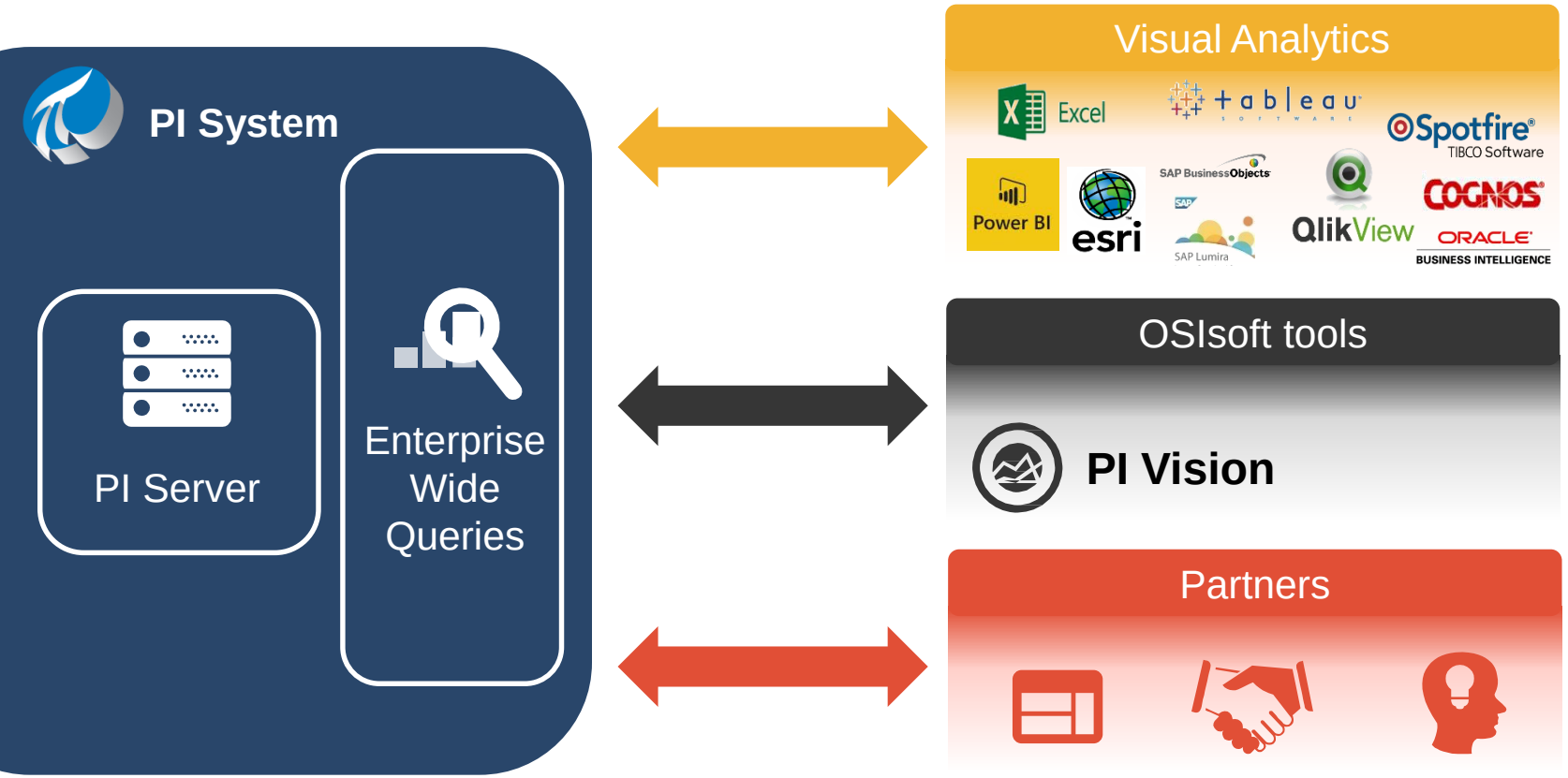
© Copyright 2017 OSIsoft, LLC

They do this today using PI + Integrators



© Copyright 2017 OSIsoft, LLC

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



© Copyright 2017 OSIsoft, LLC

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

© Copyright 2017 OSIsoft, LLC

5 Complementary Cloud Services

© Copyright 2017 OSIsoft, LLC

Creating added value for our customers

Cloud Services

Cloud Connect

Data Sharing

Display Sharing

© Copyright 2017 OSIsoft, LLC

Building an infrastructure approach

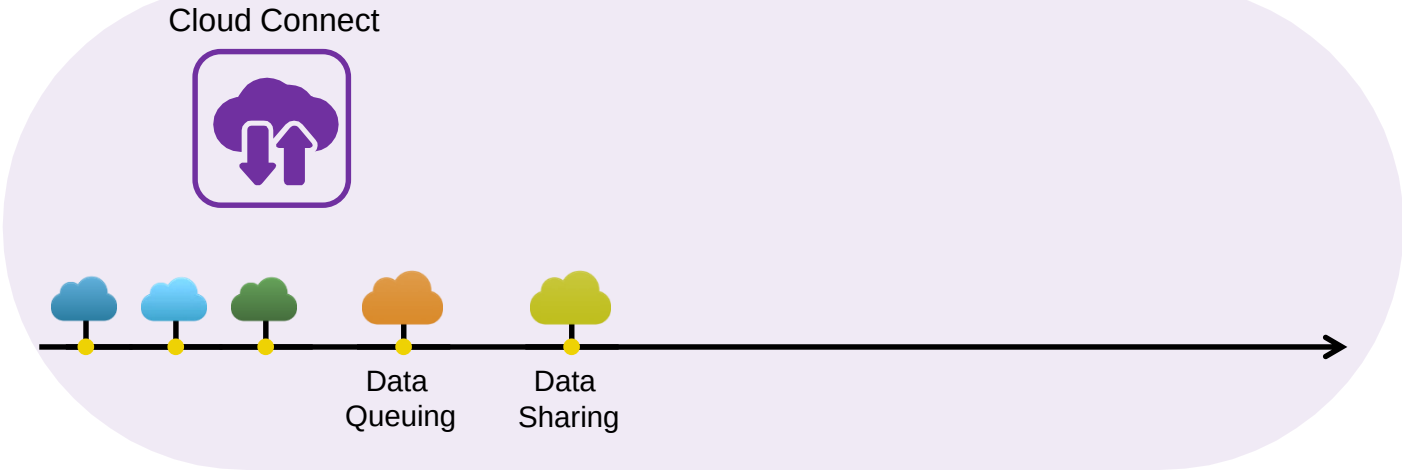
Cloud Services Platform

© Copyright 2017 OSIsoft, LLC

Building complimentary capabilities

Commercial Cloud Services Offerings

Cloud Services Platform

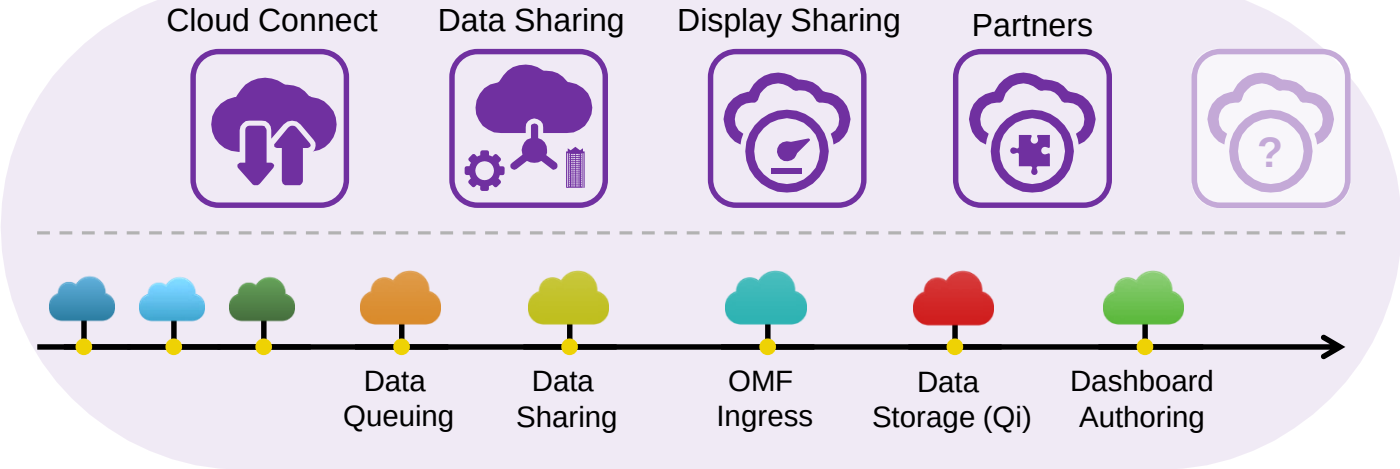


© Copyright 2017 OSIsoft, LLC

Transforming platform services into commercial offerings

Commercial Cloud Services Offerings

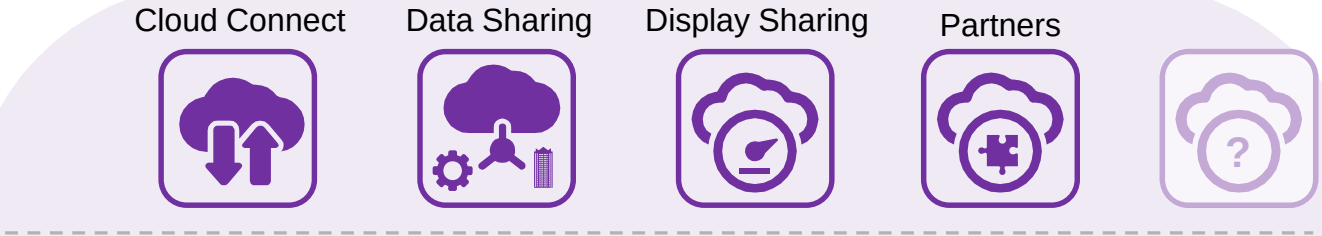
Cloud Services Platform



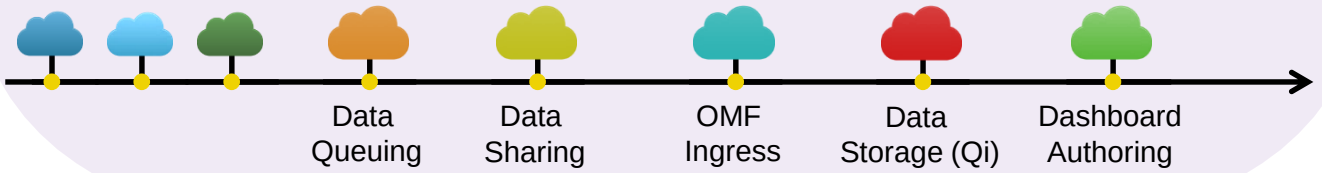
© Copyright 2017 OSIsoft, LLC

Building complimentary capabilities

Commercial Cloud Services Offerings



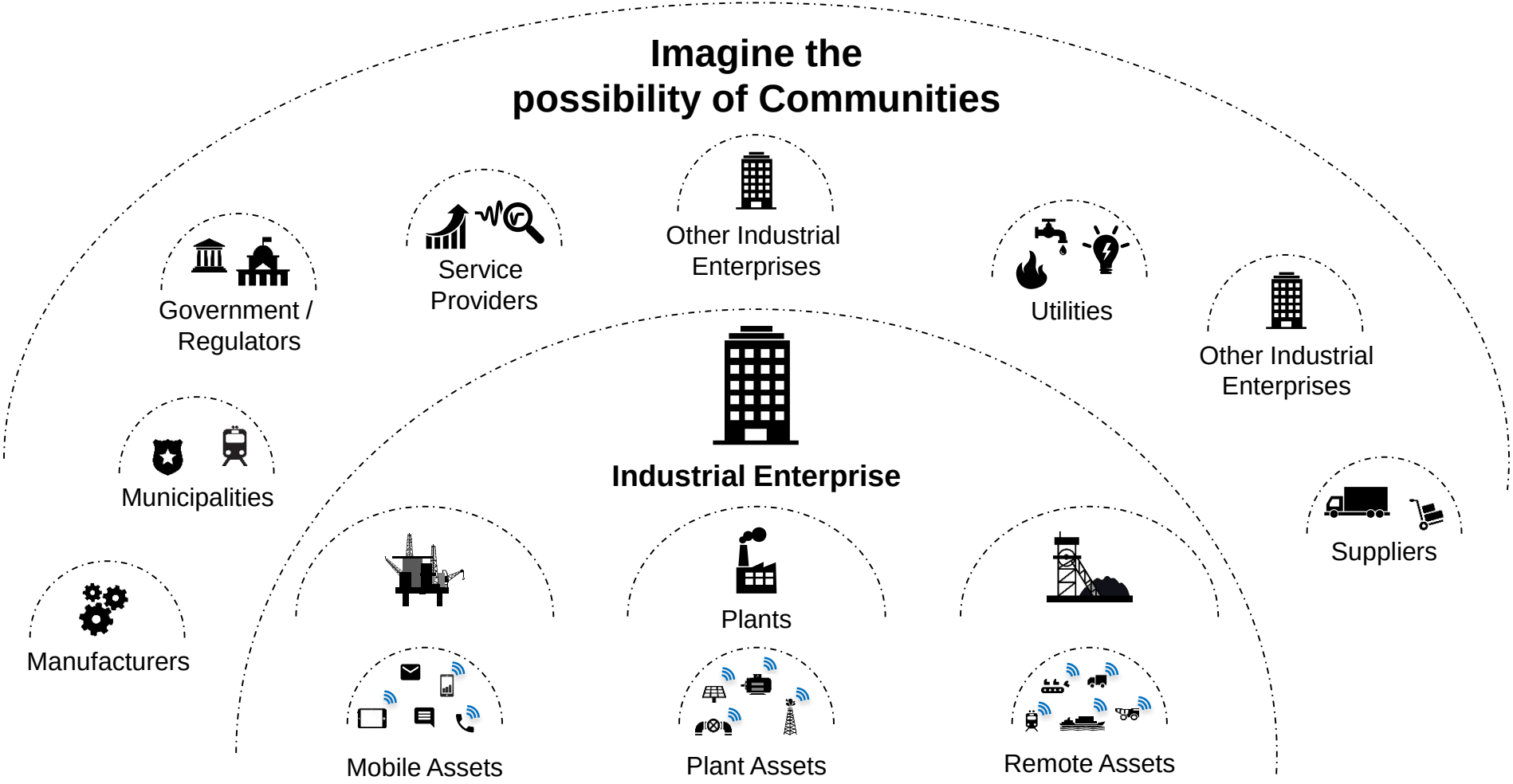
Cloud Services Platform



On-premises capabilities

© Copyright 2017 OSIsoft, LLC

Imagine the possibility of Communities



© Copyright 2017 OSIsoft, LLC

Contact Information

Chris Nelson
cnelson@osisoft.com
Director, Visualization Products
OSIsoft, LLC

© Copyright 2017 OSIsoft, LLC

Have an idea how to improve our products?

OSIsoft wants to hear from you!

https://feedback.osisoft.com/

© Copyright 2017 OSIsoft, LLC

Thank You

© Copyright 2017 OSIsoft, LLC