

The background of the entire image is a blue-tinted photograph of the San Francisco skyline, featuring the Golden Gate Bridge on the left and the Transamerica Pyramid on the right. Overlaid on this background is a geometric pattern of light blue triangles. The OSIsoft logo is centered at the top in white.

OSIsoft®

USERS CONFERENCE 2016

April 4-8, 2016 | San Francisco

TRANSFORM
YOURWORLD



OSIsoft.
USERS CONFERENCE 2016
April 4-8, 2016 | San Francisco

**TRANSFORM
YOUR WORLD**



The slide features five decorative blue spheres. One large sphere in the top-left contains three overlapping circles. Another large sphere is in the top-right. Three smaller spheres are positioned in the bottom-left, bottom-center, and bottom-right. All spheres have a gradient and some internal patterns.

We believe People with Data
can Transform their world

The background is a complex, abstract digital composition. It features a dense network of glowing blue lines that crisscross the frame, suggesting a global or interconnected network. Interspersed among these lines are various elements of binary code, including large and small '0's and '1's, some of which are rendered in a 3D, isometric style. There are also faint, larger-scale patterns that resemble a globe or a data map. The overall color palette is dominated by shades of blue, with some white and light blue highlights that create a sense of depth and movement.

**50 Billion Assets
Will be Connected by 2020**



1.5B Sensors

>125 Countries

17,000 Sites

Technology Drivers

2020 Adoption

2020 \$ Market

IIoT

50B devices

\$25B

Big Data

15-20% CAGR

\$61B

Security

5% CAGR

\$28B

M2M 26B Units

6.6 Connected devices/person

\$36B Remote healthcare

200M Smart Homes



Opportunity: Transforming the Value of Data

1 | Data

Real-time Feeds

Boiler-209.Fuel Gas Flow DC.Srv01R 94:GRDIDX.Trigger AC09.Power
GE01_DT 409510395_Wind Speed QI-109 GE01_DT Cooling Fan-711.Feed Rate

DM-05:BW.R DC.SJ.C1.Z1.R1.Rk06.S2.O03.PWR QI-111 FinalProductBin.On

94:GRDIDX.ProdID Boiler-209.Fuel Gas Flow fic1001.C
FR50011-8.Net Volume Coal Motor Load 02F100.TOT.EV 3LBA32CT001-
DC.SJ.PUE TI-102 DC.Zero DY-108 DC.SJ.C1.Z3.R3.PDU1.PF GE01_A_DT
403511195_Wind Speed DC.Srv01R Boiler-125.Fuel Gas Volume
1-16.Net Volume CB1992_MS 0_CMP_FLOW_TOTAL GE02_Energy
Anacortes Refinery.Alkylolation.Asset Problems B210_FG005.KPIExcursion
AlarmTest.Input.Float32.1 AQUA2-TI-201.PV DC.SJ.SiteRealTimeITLoad.PWR
FT9001 bf5e1d1d-39c9-4b5b-b3d3-c2ce05fa3a26 DM-05:BW.R AT401
FI-101 0_CLR_FINAL_OUT_B_TMP F506_E990 339511775_Clear Sky Global Horiz GE01_DT

D-110.Tank Pressure.PV Boiler Feed Pump #1 FT9001
GE01_CON AlarmTest.Input.Float32.1 FIC-144 02F100 fasttag
FI-151 0_ENG_AUX_STS DC.C2Z1.Pwr.Ripple GE01_A_DT
02F102.1HRAVG BGT001 PI-111 facility_output FI-111
GE05_Energy C1:14AT5 1-8.Net Volume
AC03.Air Flow FeedBin.Cmt Coal Motor Load
Boiler Cold Reheat Pressure 02F100.TOT.EV
B737_FG117 DC.TimeLoad 03LBA32CT001-2
D-110.Tank Pressure.PV DC.SJ.ITLoad.PWR
GE04_DT QI-121 GE03_V_WIN TI-145 FR2001
DC.Rk07R DC.Srv06R TI-178 GE04_OS
GE04_Energy TI-121 FT9001 FT9001
FAC.OAK.Power-Kh-Val.PV FR5001 AF_NOISE
FeedBin.Cmt DY-131
DC.Zone1.Number DC.SJ.PUE
DailyTrigger fic1001.C
FrqPrbCost_ER GE02_OT
GE01_DT

2 | Information

Real-time Decision Support

Weather Conditions

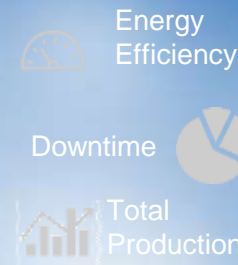
Relative Humidity:
34% Current Temp: 85
°F High: 92 °F
Low: 57 °F
Wind: 8 mph/N

Crude Furnace

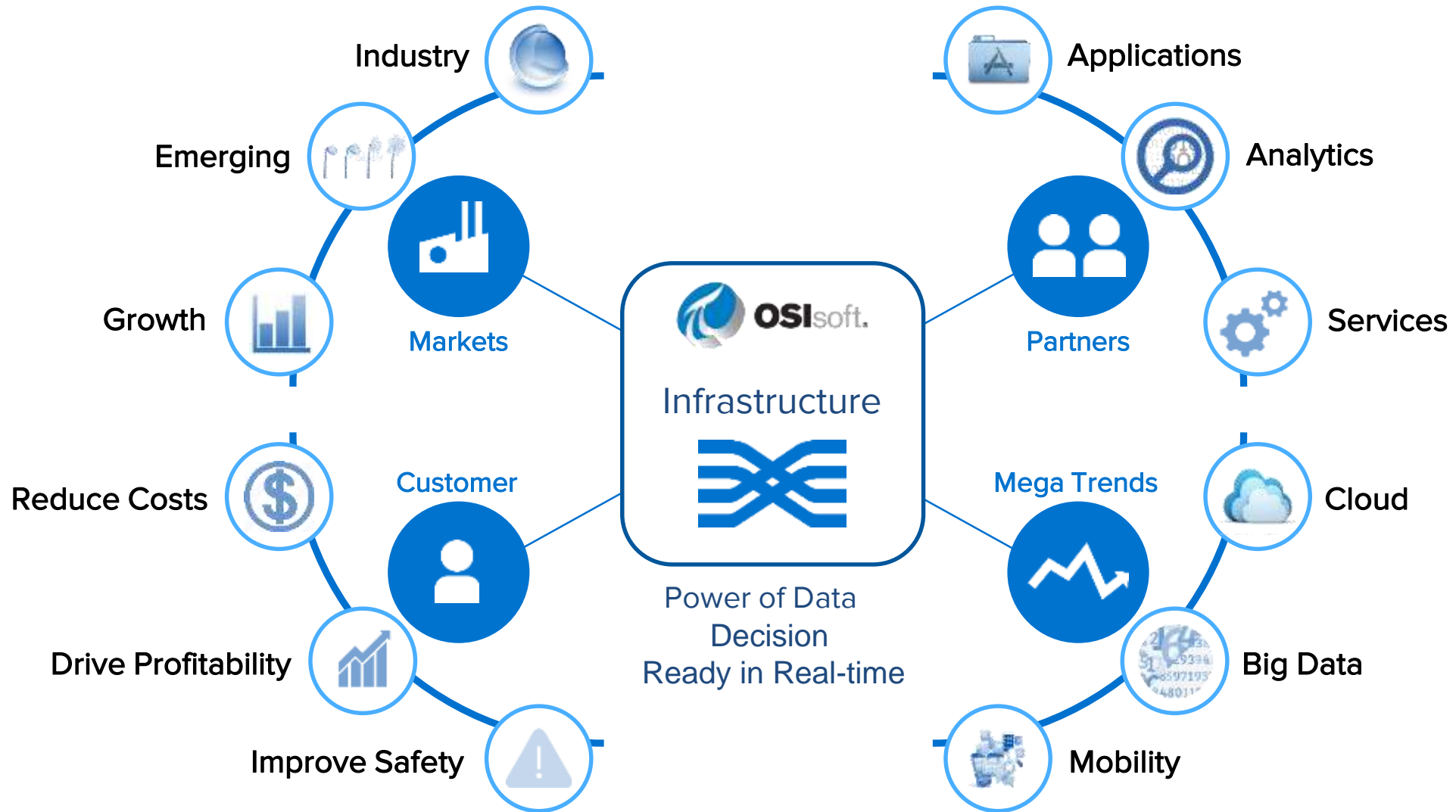
Draft Pressure: -0.5 WC
Stack Temp: 316 °F
Oxygen: 2.5%
Firebox Temp: 860 °F
Outlet Temp: 840 °F Cold
Oil Velocity: 6 ft/sec

3 | Intelligence

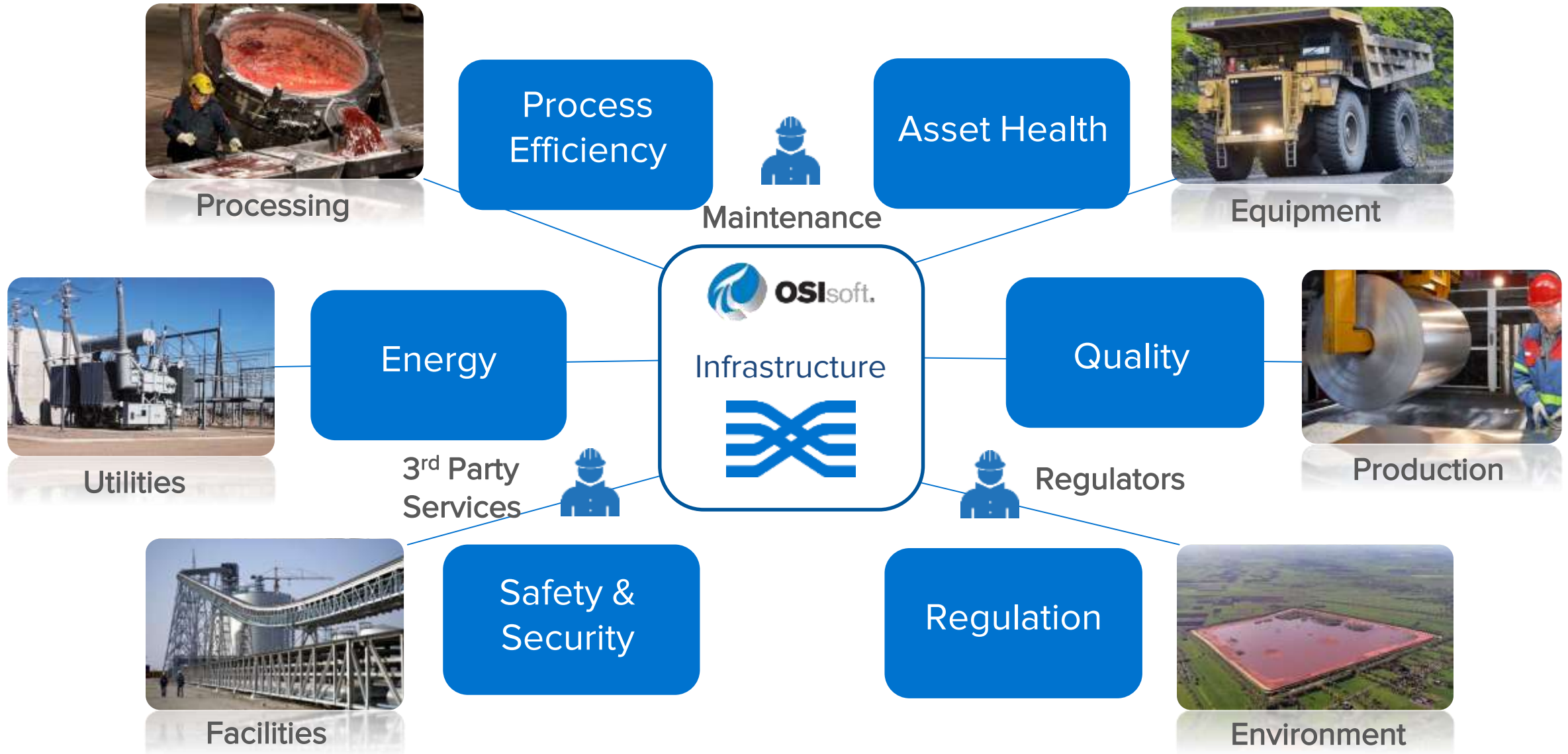
Business/Operation Analytics



Infrastructure is at the core of our story...How is it applied?



Data Infrastructure: For Your Journey



Data Infrastructure: An Agent for Business Transformation

Process
Efficiency

Asset Health

Energy



Infrastructure



Quality



5 less plant
shutdowns

\$12M/yr/mine
O₂ saving

\$40M saved &
errors

\$5-10M per

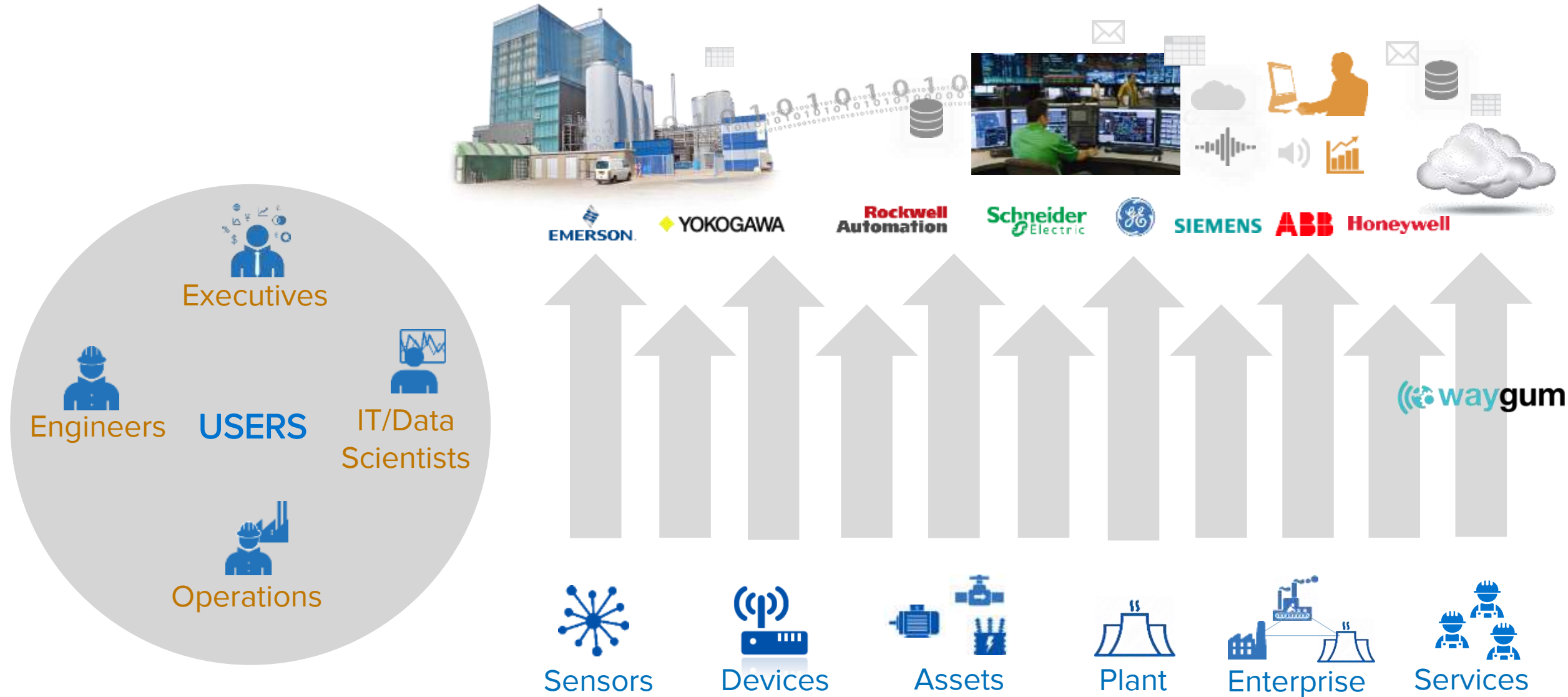
Saved 640M
liters water

1000+ less
paper
documents

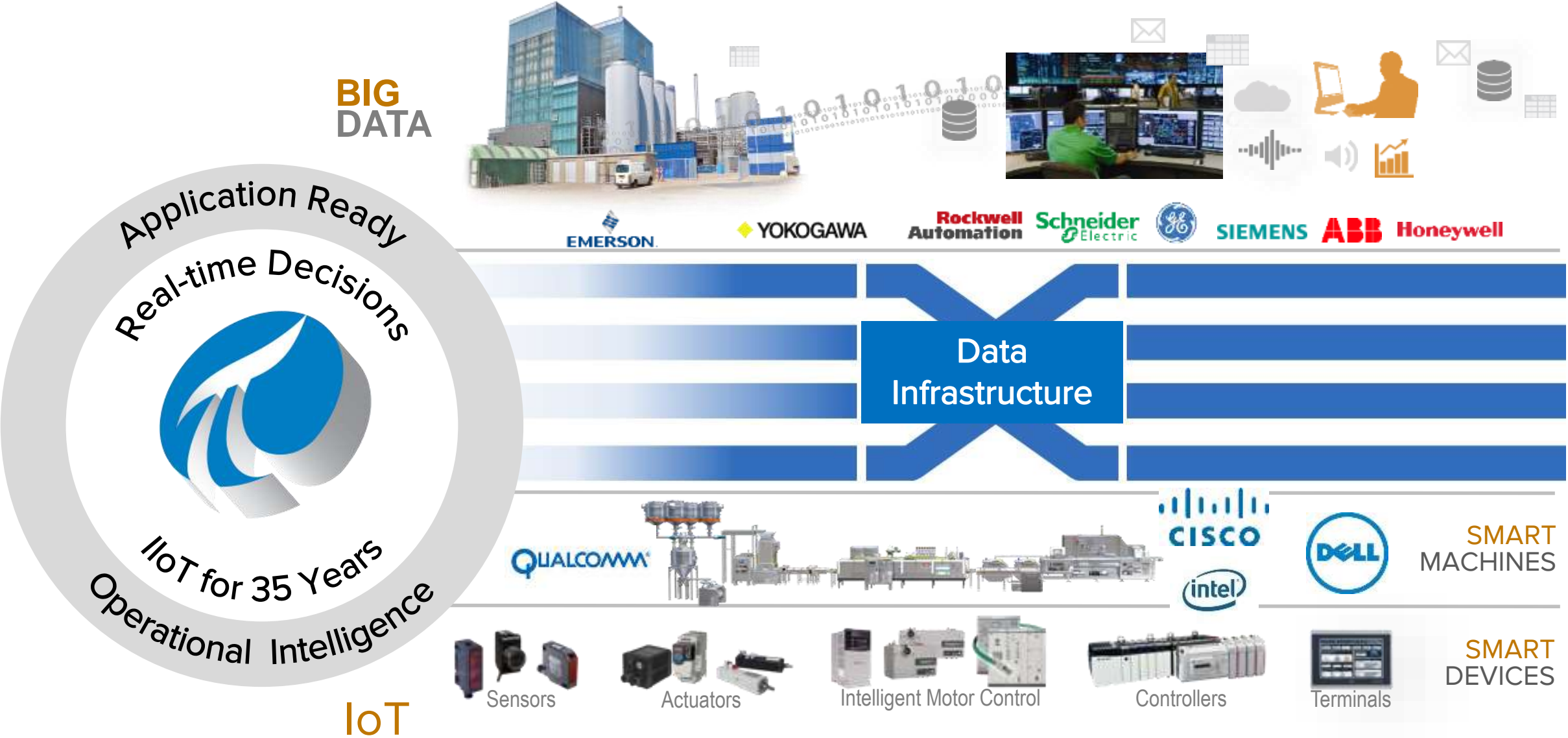
Safety &
Security

Regulation

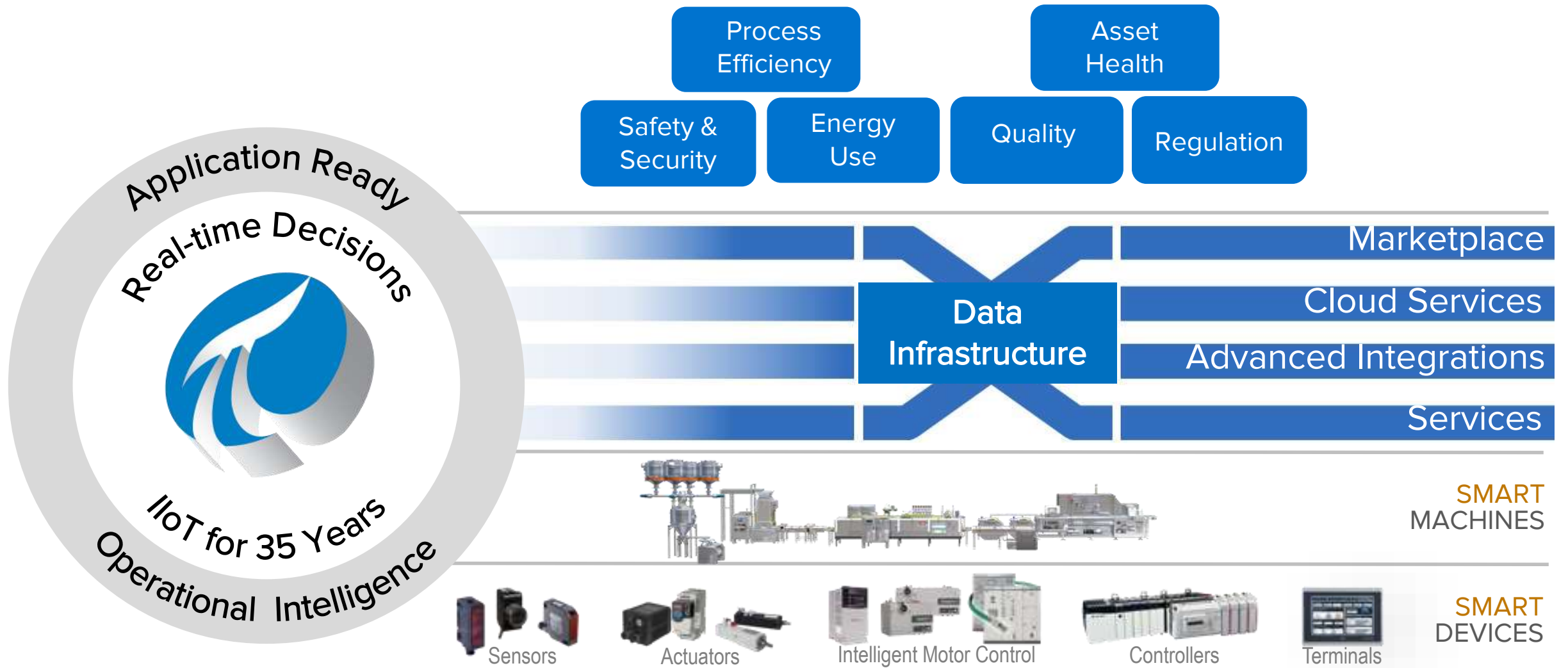
The Challenge



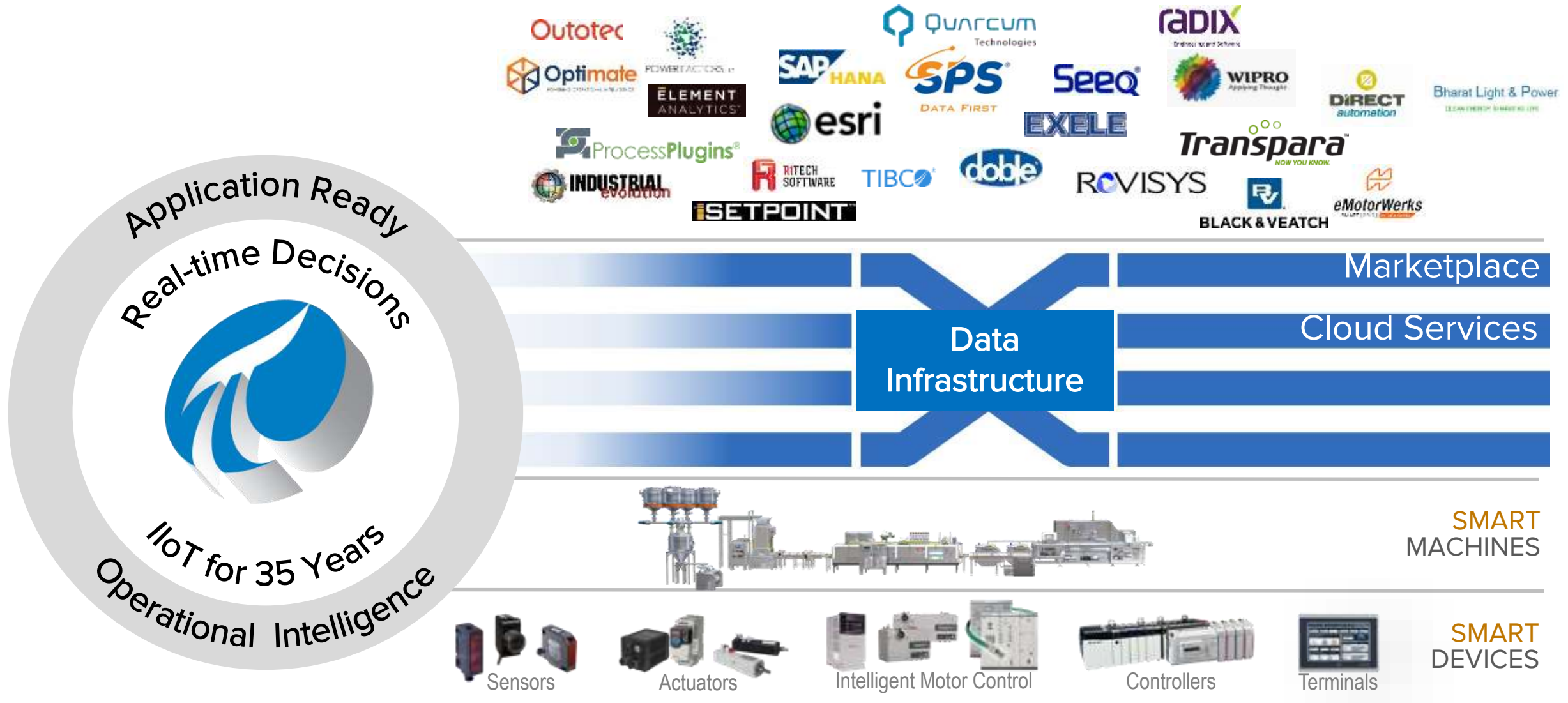
Data Infrastructure for Digital Transformation



OSIsoft Initiatives for Business Transformation



Partner Ecosystem to Support Transformation



Proven and Trusted Digital Transformation

125+
Countries



Executives

1300+
Case Studies

450+
Interfaces



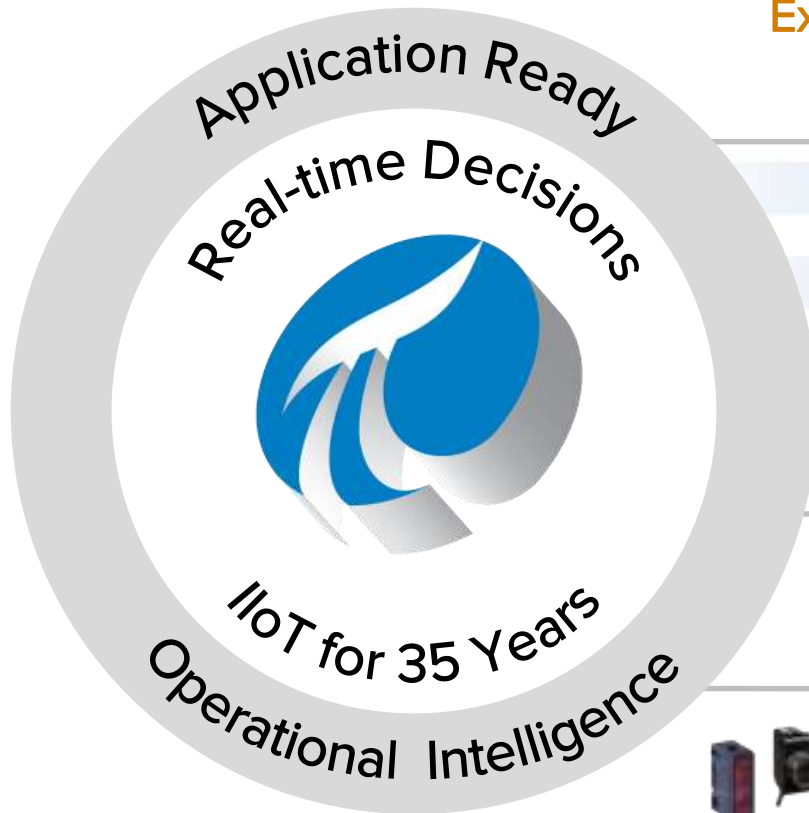
Business

1.5 Billion
Sensors

17,000+
Sites



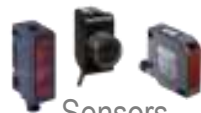
Operations



Data
Infrastructure



SMART
MACHINES



Sensors



Actuators



Intelligent Motor Control



Controllers



Terminals

SMART
DEVICES



Unleash your Infrastructure
with the **PI System**



Enhance your Intelligence with **PI
Advanced Integrations**



Advance Your Ecosystem with
OSIsoft Marketplace



Expand Your World with
OSIsoft Cloud Services



Accelerate Your Transformation
with **OSIsoft Services**



Unleash Your Infrastructure
with the PI System

Strategic Partnership



- Leadership in Real-time Automation and Information Solutions
- Solution Provider
- Automation and Controls Expertise
- Solution Platform



- Real-time Performance Management Software Products
- Technology Provider
- Real-time Data and Context Experts
- Data Infrastructure

Market leaders joining together to provide winning solutions

Transactional data: orders, supply network, product design ...

ERP

FINANCIALS

HR

LOGISTICS

QUALITY

CUSTOMERS

...

IT



CONVERGENCE



OT

Real-time data: **CONTROL, SAFETY, SECURITY** + alarms, events, states, energy, diagnostics, ...

SENSORS,
ACTUATORS

CONTROLLERS

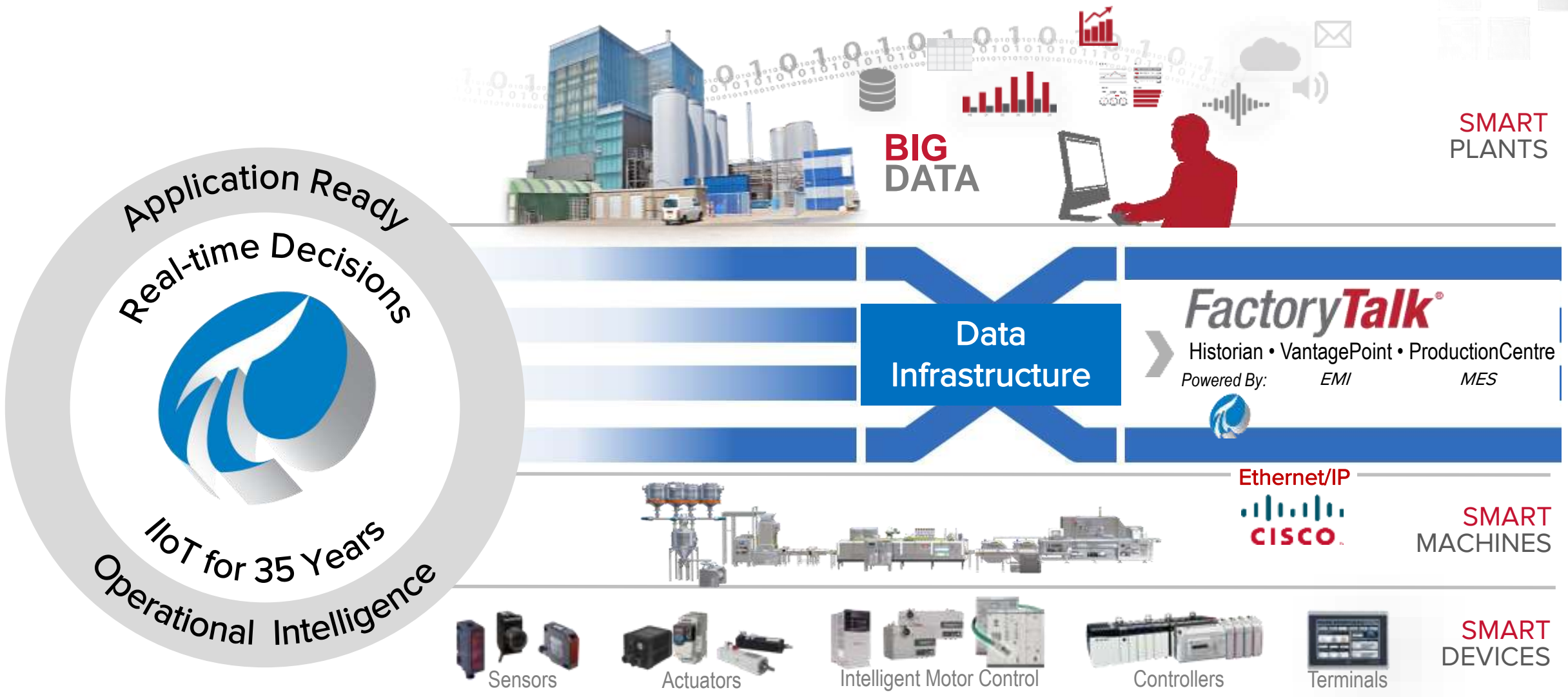
MATERIAL &
TRANSPORT

MACHINES &
EQUIPMENT

LABELERS &
PRINTERS

...

OSIsoft & Rockwell: Enabling an Agile Digital Transformation Strategy



"Native connectivity between the two systems allows high-speed, critical insight into plant operations at any level in the organization via a personal computer or mobile device."



Joint Enterprise Agreement

FactoryTalk[®] Historian



MILLIONS of Data Tags

Mines, product transportation, six production facilities and into shipping operations

REDUCES
OPERATOR
VARIABILITY



IMPROVES
QUALITY &
PRODUCTIVITY



bhpbilliton

“The Rockwell Automation and OSIsoft combination brings together the best of industrial and enterprise data management. The infrastructure seamlessly leverages the company’s existing investments at a plant and enterprise level.”

JOINT ENTERPRISE AGREEMENT

Deployment of standard infrastructure in

21 NORTH AMERICAN BREWERIES



**Rockwell
Automation**

AB InBev



“We believe North America will be the first of 6 Zones to deploy this architecture across AB-InBev, worldwide”





Enhance Your Intelligence
with PI Advanced Integrations

Evolving Data Goals: PI Integrator for Business Analytics

Real-Time Decision Support (OT)

Monitoring

Real-time visibility

Process Optimization

Real-time and historical view across all assets



Enterprise Analysis

Benchmarking

Fleet-wide performance comparison

System Optimization

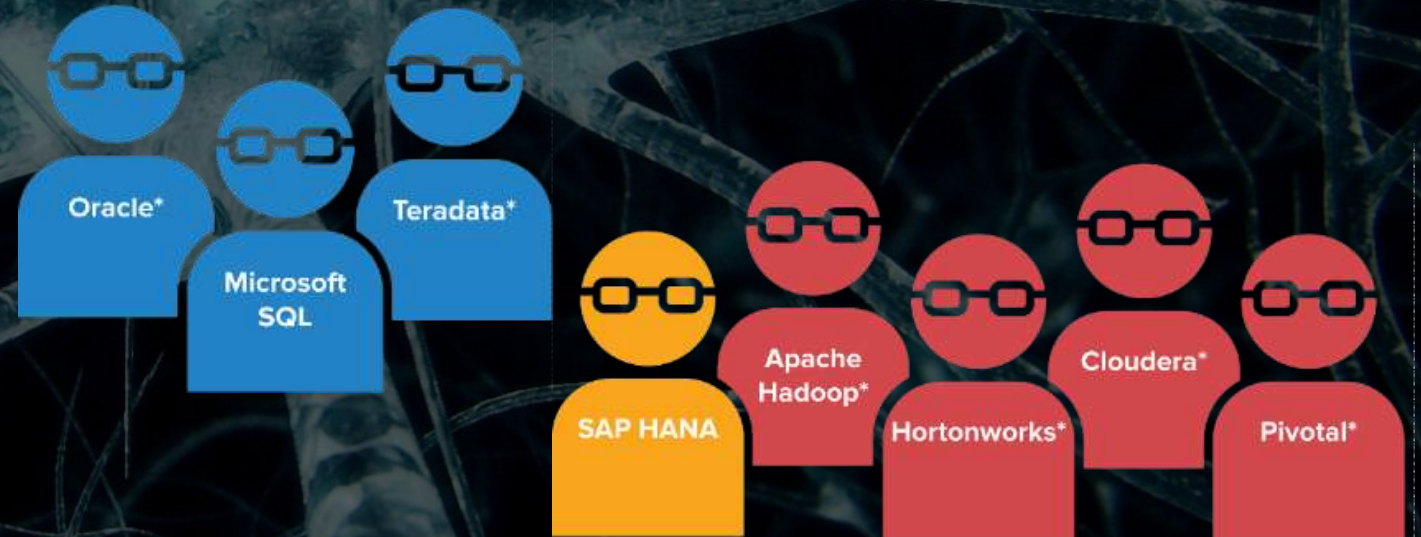
Combining data sets for system intelligence



BI Edition



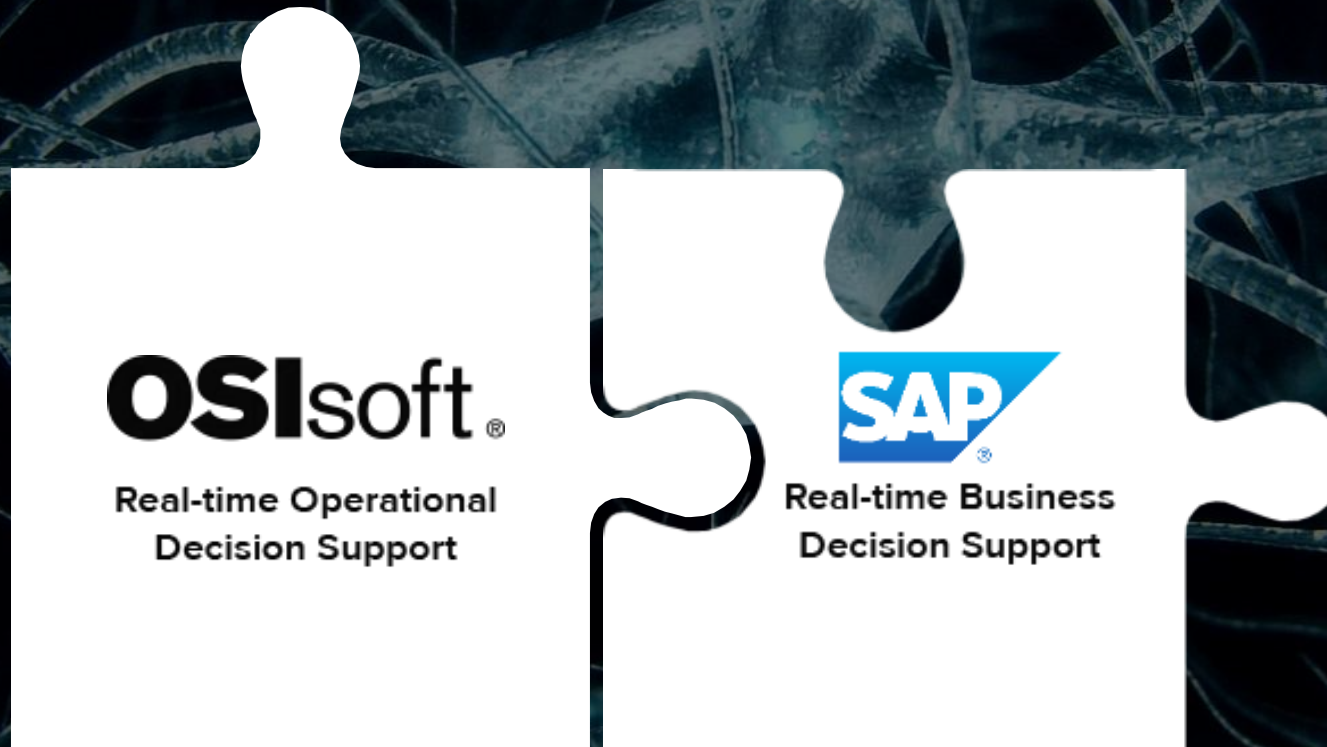
Data Warehouse Edition




*Coming Soon, Stay Tuned!

Enabling Big Data Analytics with SAP Hana

- IT / OT Convergence
- Delivering data with context to the Business Intelligence and Big Data tools you already own
 - Leverage the in-memory speed of SAP Hana for fleet-wide analyses
- Combine operations data with data from other systems (e.g. ERP) for system-wide intelligence



A hand in a dark blue sleeve holds a large, white, fluffy cloud against a dark grey background. The cloud is positioned above the hand, appearing to be supported by it.

Enable Your World
with OSIsoft Cloud Services

A close-up photograph of two hands shaking in a firm grip. The hand on the left is wearing a blue suit sleeve, and the hand on the right is wearing a grey suit sleeve. The background is blurred, showing what appears to be a modern office or building exterior with greenery.

Accelerate Your Transformation
with OSIsoft Advanced Services

A hand with the index finger pointing upwards towards a grid of blurred, light blue squares on a dark background. The squares vary in size and are arranged in a grid-like pattern, some overlapping. The hand is in the foreground, slightly out of focus, with the index finger pointing towards the center of the grid.

Advance Your Ecosystem
with OSIssoft Marketplace





Unleash Your Infrastructure
with the **PI System**



Enhance Your Intelligence with **PI
Advanced Integrations**



Enable Your World with
OSIsoft Cloud Services



Advance Your Ecosystem with
OSIsoft Marketplace



Accelerate Your Transformation
with **OSIsoft Advanced Services**

The background is a vibrant blue abstract composition. It features a dense network of white and light blue lines that crisscross the frame, suggesting a global or digital connectivity. Interspersed throughout are various elements of binary code, including large and small '0's and '1's, some of which are rendered in a 3D, isometric style. There are also faint, glowing circular patterns and a bright, out-of-focus light source in the lower right quadrant that creates a lens flare effect. The overall aesthetic is high-tech and futuristic.

50 Billion Assets
Will be Connected by 2020



THANK YOU

Brought to you by



The background of the entire image is a blue-tinted photograph of the San Francisco skyline, featuring the Golden Gate Bridge on the left and the Transamerica Pyramid on the right. Overlaid on this background is a geometric pattern of light blue triangles. The OSIsoft logo is centered at the top in white.

OSIsoft®

USERS CONFERENCE 2016

April 4-8, 2016 | San Francisco

TRANSFORM
YOURWORLD