Digital Transformation with Today's PI System

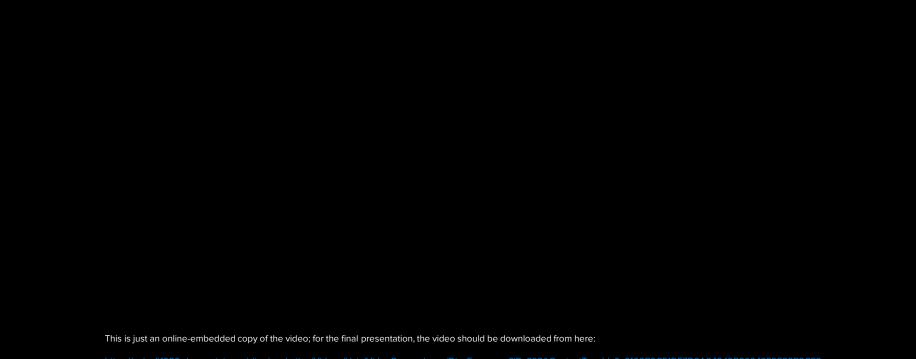
Martin Jetté, Eng – Regional Manager Canada

Toronto Regional Seminar – October 4th 2016



We believe people with data can transform their world





Your PI System is Ready! To Support Your Organization's Digital Transformation

To help you:

- Increase production
- Extend asset life
- Improve Quality
- Reduce energy costs
- Innovate
- Remain competitive



Opportunity: Transforming the Value of Data

1 Data

Real-time Feeds

Boiler-209.Fuel Gas Flow DC.Srv01R 94:GRDIDX.Tr igger 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 FR500118.Net Volume Coal Motor Load 02F100.TOT.EV 3LBA32CT001-2
DC.S.PUE TI-102 DC.Zero DY-108 DC.S.C1.2S.R.DDU.F.P GEOL. ADT
403511195_Wind Speed DC.Srv01R Boiler-125.Fuel Gas Volume
1-16.Net Volume CB1992 MS 0 CMP FLOW TOTAL GE02_Energy

Anacortes Refinery.Alkylation.Asset Problems B210_FG005.KPIExcursion Alamifest.nput.Float2.1 AQUA2-T1-201.PV DC.3J.SiteRealTimerTLoad.PWR
FT30011 bf5e1d1dd-39c9-4b5b-b3d3-c2ce05fa3a26

D-110.Tank Pressure.PV Boiler Feed Pump #1

GEO! CON AlarmTest.Input.Float32.1 FIC-144 02F100 fastage

DC.C2Z1.Pwr.Ripple

PI-111 facility_output

1-8.Net Volume

Coal Motor Load

02F100.TOT.EV

03LBA32CT001-2 DC.SJ.ITLoad.PWR

TI-145 FR2001

FT9001 FT9001

FR5001 AF NOISE

GE01_CON_AlarmTest.Input.Float32.1 FI-151 0_ENG_AUX_STS 02F102.1HRAVG BGT001

GE05_Energy C1:14AT5
AC03.Air Flow FeedBin.Cmt
Boiler Cold Reheat Pressure
B737_FG117 DC.TimeLoad
D-110.Tank Pressure.PV

DC.Rk07R DC.Srv06R

GE04_Energy TI-121 FT9001 FAC.OAK.Power-Kh-Val.PV

FeedBin.Cmt
DC.Zone1.Number
DailyTrigger

DY-131 DC.SJ.PUE fic1001.C GE02_OT GE01_DT 2 | Information

Real-time Decision Support

Energy Efficiency







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





What is Digital Transformation?

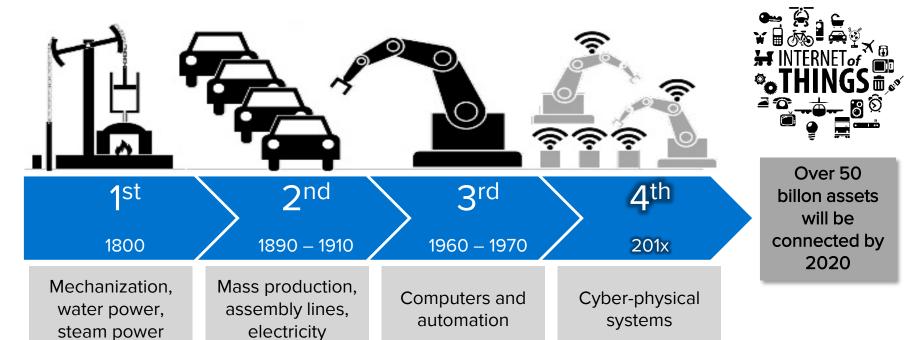
Organizations that Adapt To Changes In Their Ecosystem By Leveraging Digital Technologies To Create Digitally Enhanced Business and Operational Models





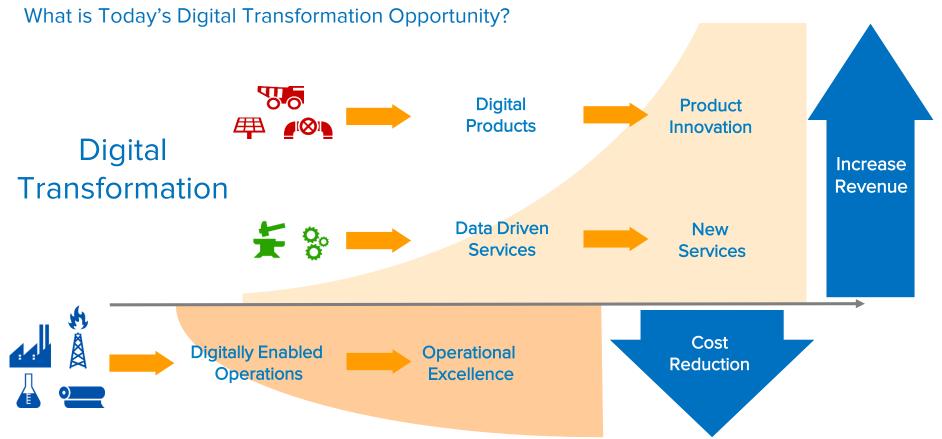
The 4th Industrial Revolution is Upon Us

Offering a new opportunity for Digital Transformation



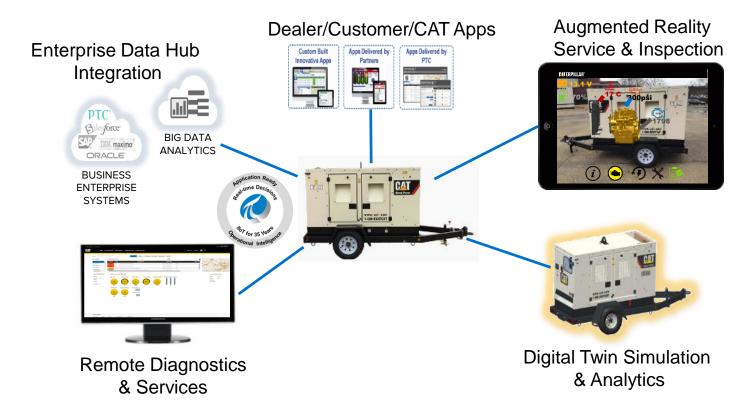


Where Are PI System Users Headed In the Near Future?

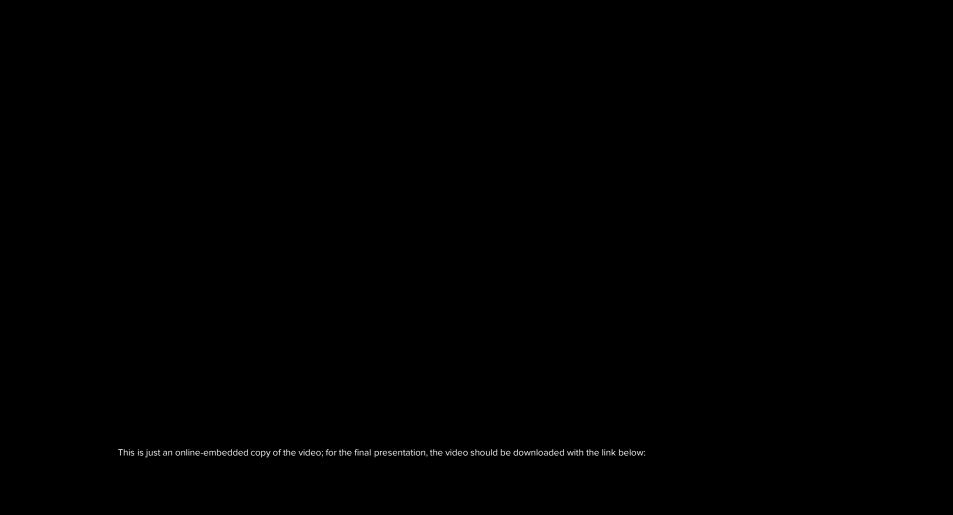




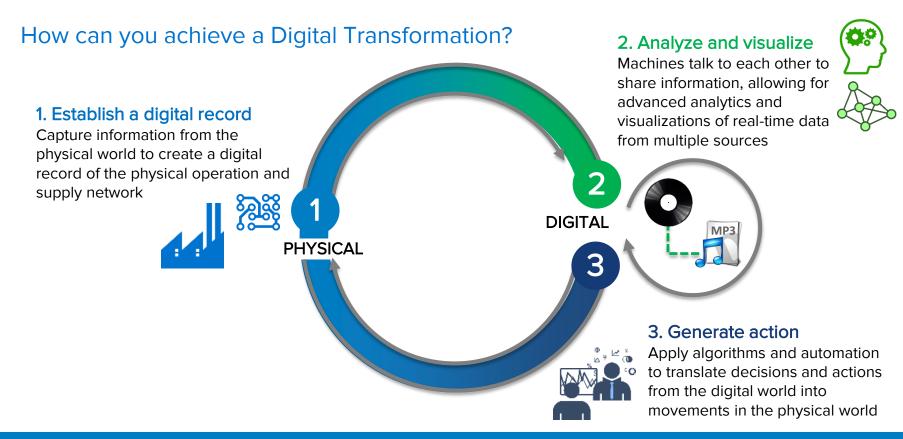
360 Degree Electric Power Solution Vision







The Digital Transformation Process



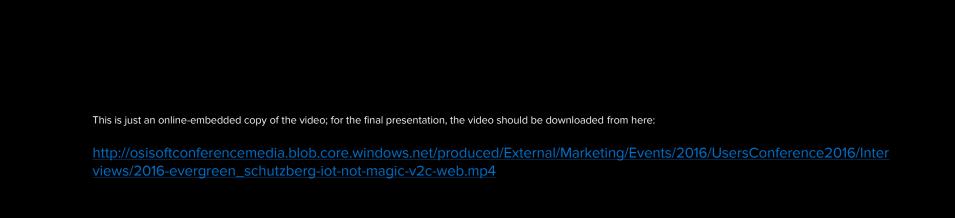


Introducing the Transformation Journey

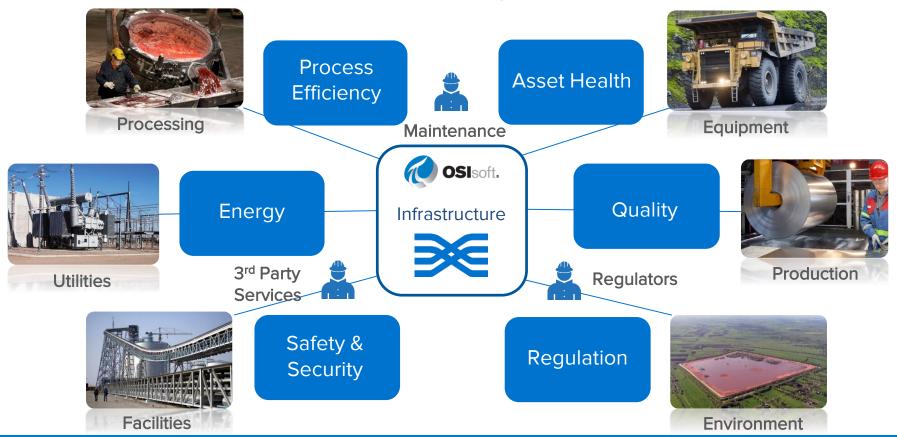


Larry Schutzberg, CIO Evergreen Packaging

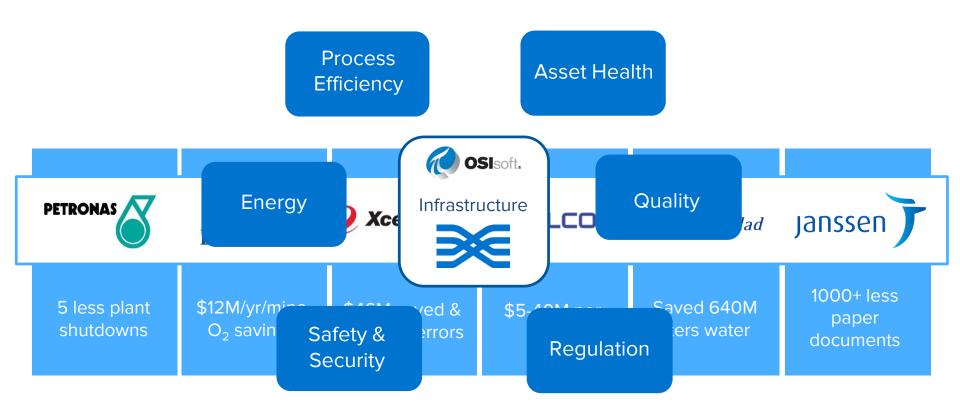




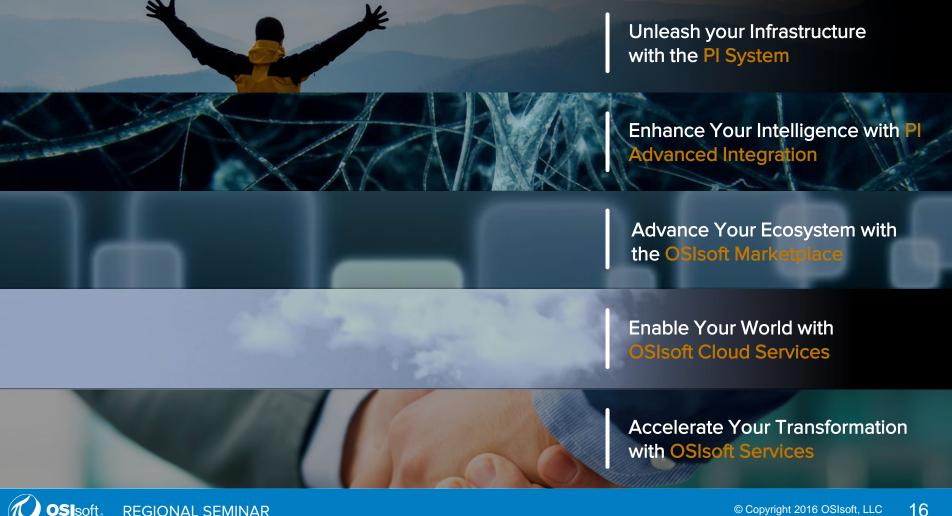
Data Infrastructure: Supporting Your Business



Data Infrastructure: An Agent for Business Transformation









Improvements In the Modern PI Server



Support for future data



Improved archive management



Enhanced Asset Analytics

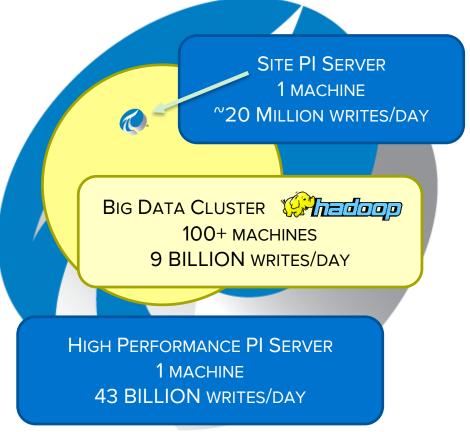


Enriched client interactions

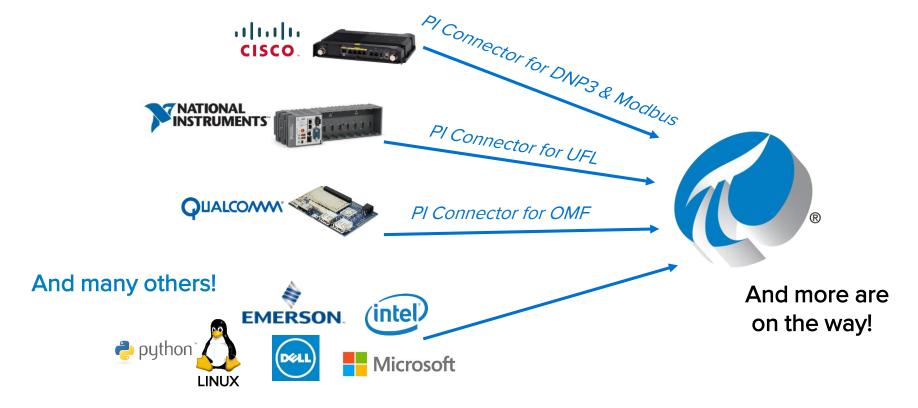


 Increased scalability and performance

Operations data is Big Data!



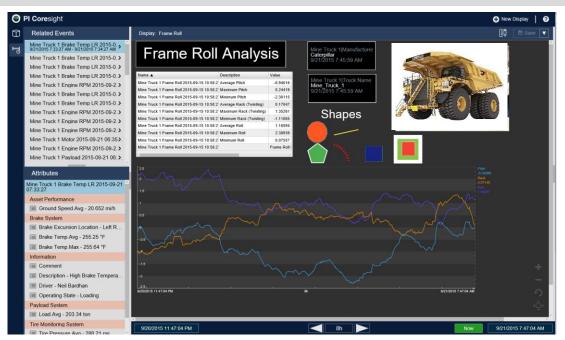
The PI System is Accommodating IoT PI Connectors



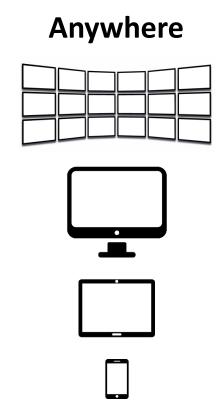


PI Coresight: Next Generation Integrated Visualization

Process monitoring | Ad-hoc analytics | Dashboarding | Data entry



Time Series | Events | Assets | Analytics | Notifications





Evolving Data Goals:

Real-Time Decision Support (OT)

Monitoring

Real-time visibility

Process Optimization

Real-time and historical view across all assets



Enterprise Analysis (IT)

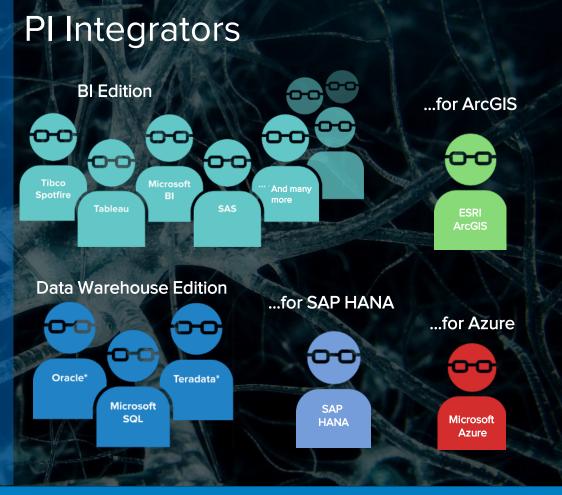
Benchmarking

Fleet-wide performance comparison

System Optimization

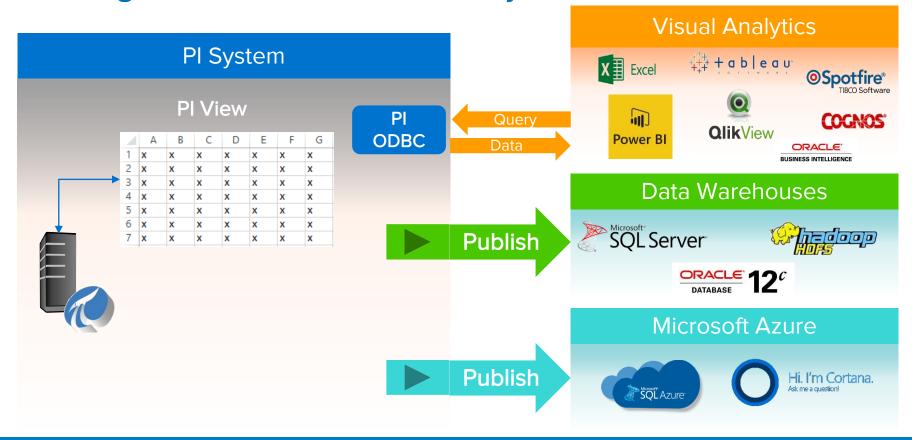
Combining data sets for system intelligence





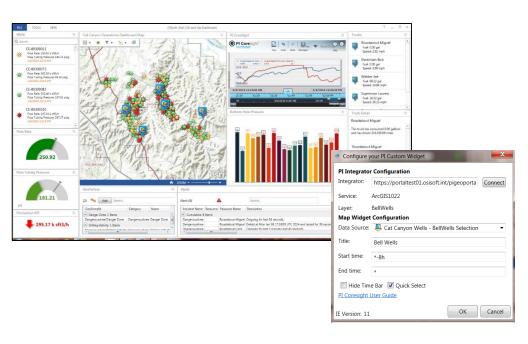


PI Integrator for Business Analytics



PI Integrator for Esri ArcGIS: Bringing Maps to Life

Overlay assets and real-time information onto Esri maps



- Overview of your PI System assets using Esri maps
- Bring Esri maps to life with real-time PI System data
- Drill into asset data using PI Coresight
- Import Esri ArcGIS assets into PI AF
- Embed PI Coresight using native Operations Dashboard Widgets







OSIsoft.

SYSTEM INTEGRATOR
PARTNER









OSIsoft.

APPLICATION



OSIsoft.

Advance your Ecosystem with OSIsoft Marketplace

Scheduled to launch in 2017, the OSisoft Marketplace will be a collection of products, applications, and services from more than 200 global partners that make up the Partner EcoSphere. From system integrators to service providers, visualization tools to advanced analytics, the Marketplace will make it easy to connect to the people and tools that complement and enhance the capabilities of your Pf System. Wherever you are in your digital transformation, the partner solutions and consulting services in our Marketplace will take you further.

Maximize the value of your PI System. Stay Informed >

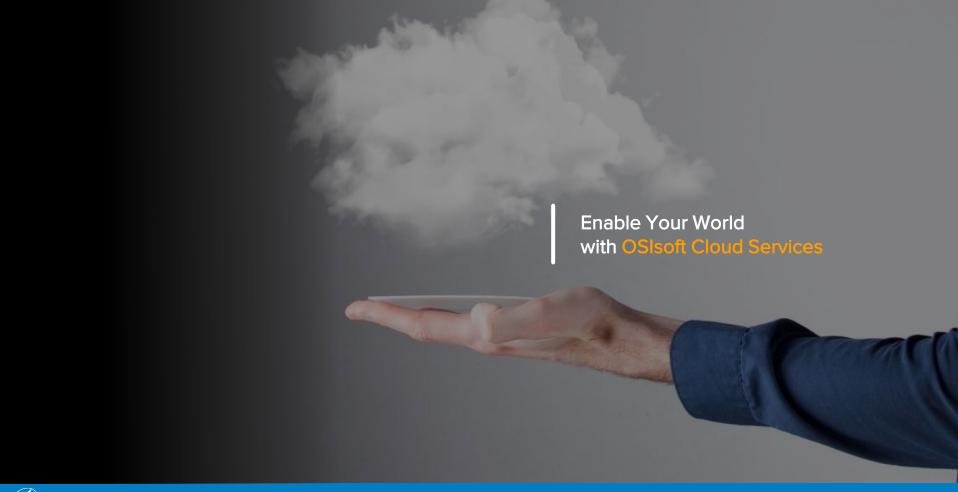




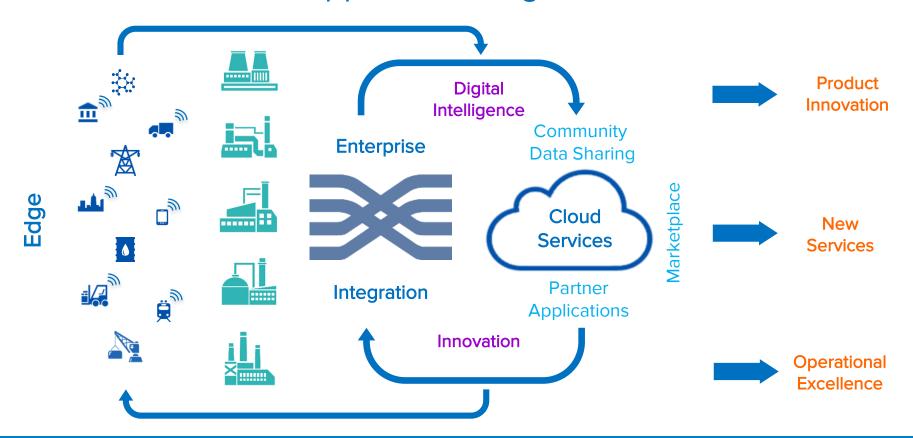
REGIONAL SEMINAR

Connect with partners

Learn more about OSisoft's Partner EcoSphere containing more than 200



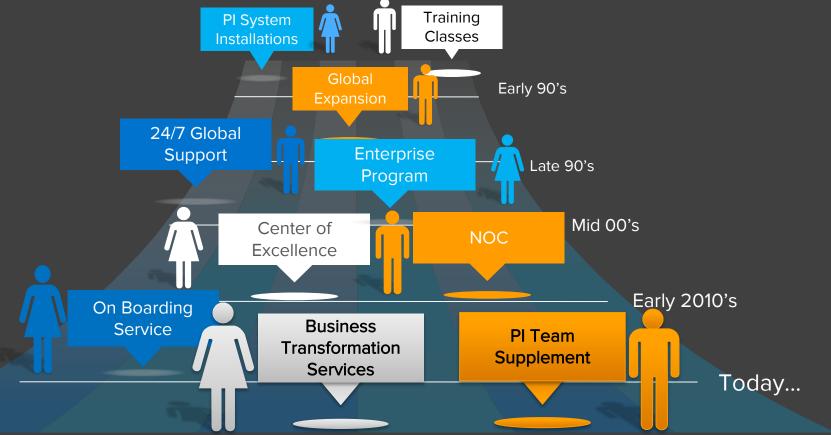
Cloud Services to Support Your Digital Transformation







Helping Accelerate the Transformation of your Business

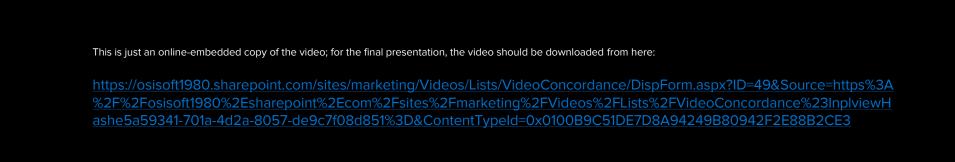


Digital Transformation of a Facility

Using the PI System, the Minnesota Wild NHL hockey team now has unique insight into operations within their arena







The Wild Achieved a Digital Transformation - And So Can You!

The issues they faced and overcome are the same ones that you all face across all your different industries!



Next, learn from OSIsoft and, most importantly, from your peers how you can achieve a digital transformation!

감사합니다

谢谢

Danke

Gracias

Merci

Thank You

ありがとう

Спасибо

Obrigado

