



OSIsoft®

EMEA USERS CONFERENCE

BERLIN, GERMANY • SEPT 26-29, 2016



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Digital Transformation within the Oil & Gas Industry

Presented by **Russell Herbert (rherbert@osisoft.com)**
Cindy Crow (ccrow@osisoft.com)

Introduction



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Introduction

Cindy Crow

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Digital Transformation

The Business Challenges Remain The Same



Maximise Performance



Lower Costs

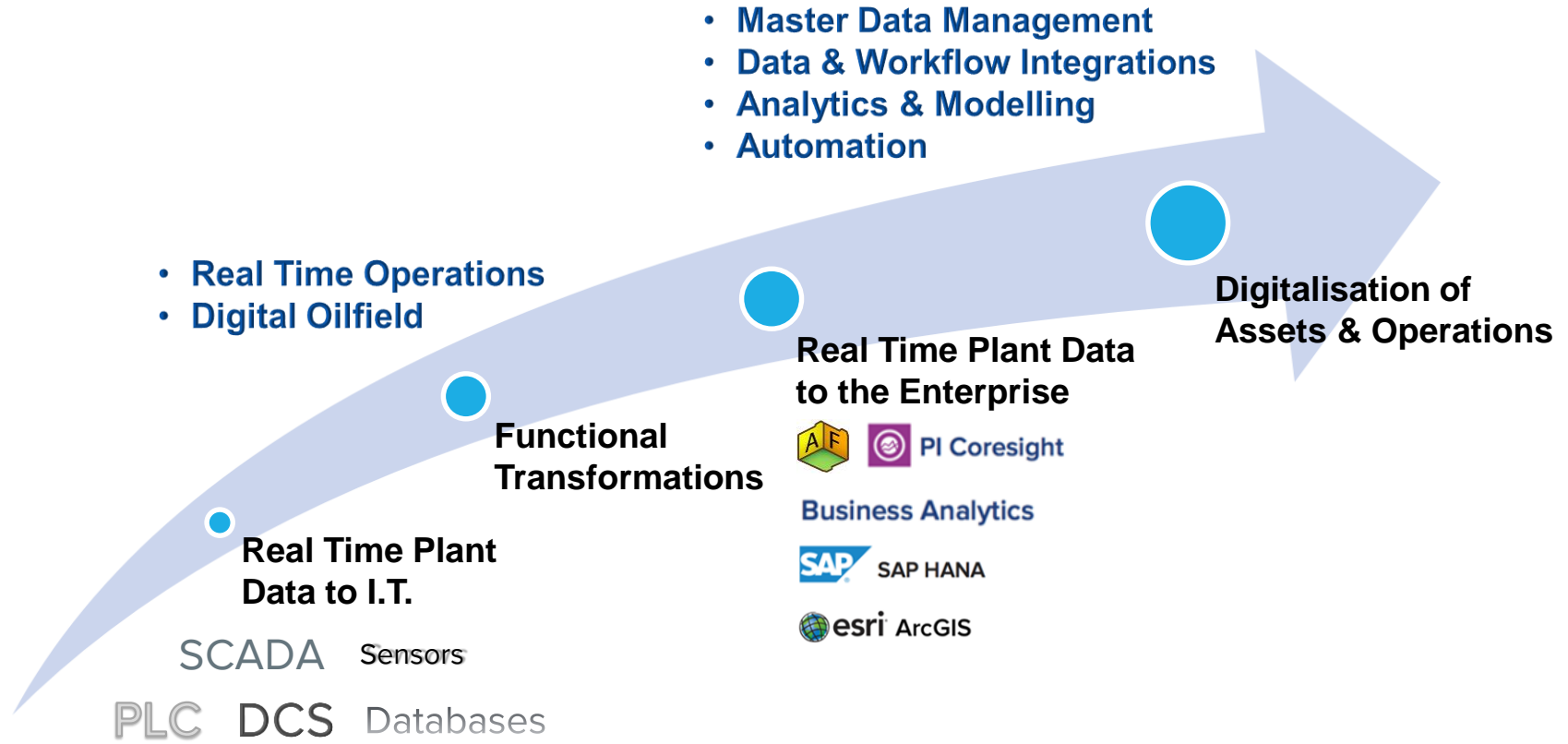


Extend the Life of Assets

**Consistent, Reliable, Organised,
Understandable & Up to Date Data
to those that need it, when they need it**

...and we at  OSIsoft. do this better than anyone!

Digital Transformation...nothing new?



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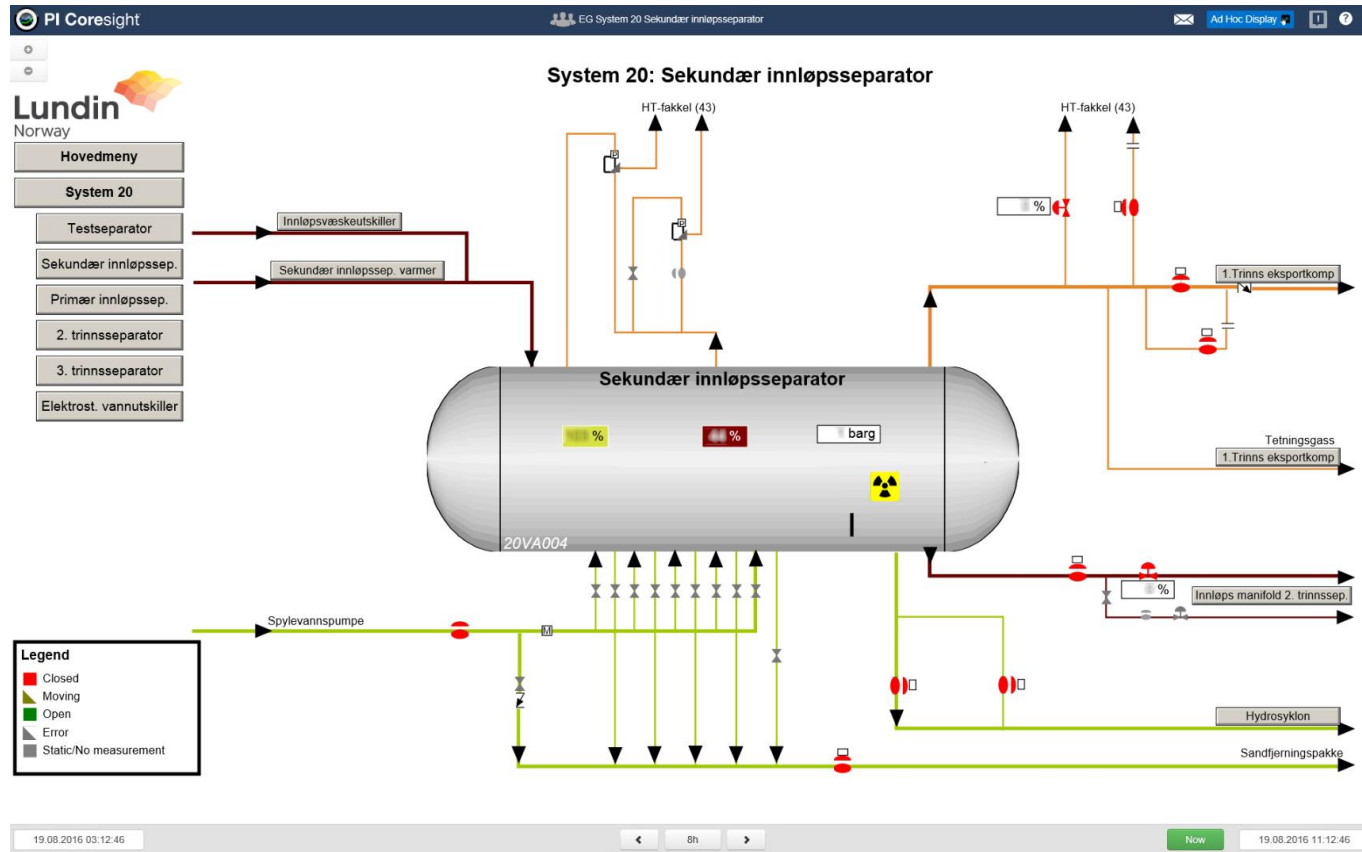
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Data & Workflow Integrations

Analytics & Modelling

Automation

Digitalisation – Data & Workflow Integrations



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Digitalisation – Data & Workflow Integrations

The screenshot displays the OSIsoft Asset Framework (AF) interface. At the top, a navigation bar includes tabs for Status, Properties, Measurements, Alerts, Documents, Related Assets, and SAP. The main content area shows a tree structure of assets. The selected asset is 20PA001A, which is expanded to show its measurements. The measurements list includes 20PA001A:BCH, 20PA001A:Z.XGH.VAL..., 20PA001A:Z.YR.VALUE, 20PA001A_CMP.Actua..., 20PA001A_CMP.Expec..., and 20PA001A_CMP.OilMa... Each measurement has a gear icon for configuration and a status indicator (green for 'within limit', red for 'exceeded threshold').

20VA001

Status: red

Status reason: 20FT2031

State: 20PA001A

Alarms: 20PA001A

Notifications: 20PA001A

Work Orders: 20PA001A

Last updated: 20PA001A

20PA001A

Status Properties Measurements Alerts Documents Related Assets Other

20PA001A:BCH No data 20PA001A:Z.XG.VALUE 20PA001A:Z.Y.VALUE

20PA001A:Z.XGH.VAL... 20PA001A:Z.YR.VALUE

20PA001A_CMP.Actua...

20PA001A_CMP.Expec...

20PA001A_CMP.Expec...

20PA001A_CMP.OilMa...

23KA001

Status Properties Measurements Alerts Documents Related Assets Other

Total: 4907 | Showing most recent 10 | [Show more](#)

12th Apr 2016 08:46:53: Value 115.67848744538043 is now within limit for goliat/23KA001_CMP/Actual_eff-Murraydemo

12th Apr 2016 08:46:23: Value 121.07518180772526 exceeded threshold 121.0 for goliat/23KA001_CMP/Actual_eff-Murraydemo

12th Apr 2016 08:29:04: Value 30.2264461605204 exceeded threshold 27.0 for goliat/23KA001:Z/XG/VALUE-mymax

12th Apr 2016 08:22:34: Value 24.75833479639852 is now within limit for goliat/23KA001:Z/XG/VALUE-mymax

12th Apr 2016 08:07:59: Value 107.22966617785633 is now within limit for goliat/23KA001_CMP/Actual_eff-Murraydemo



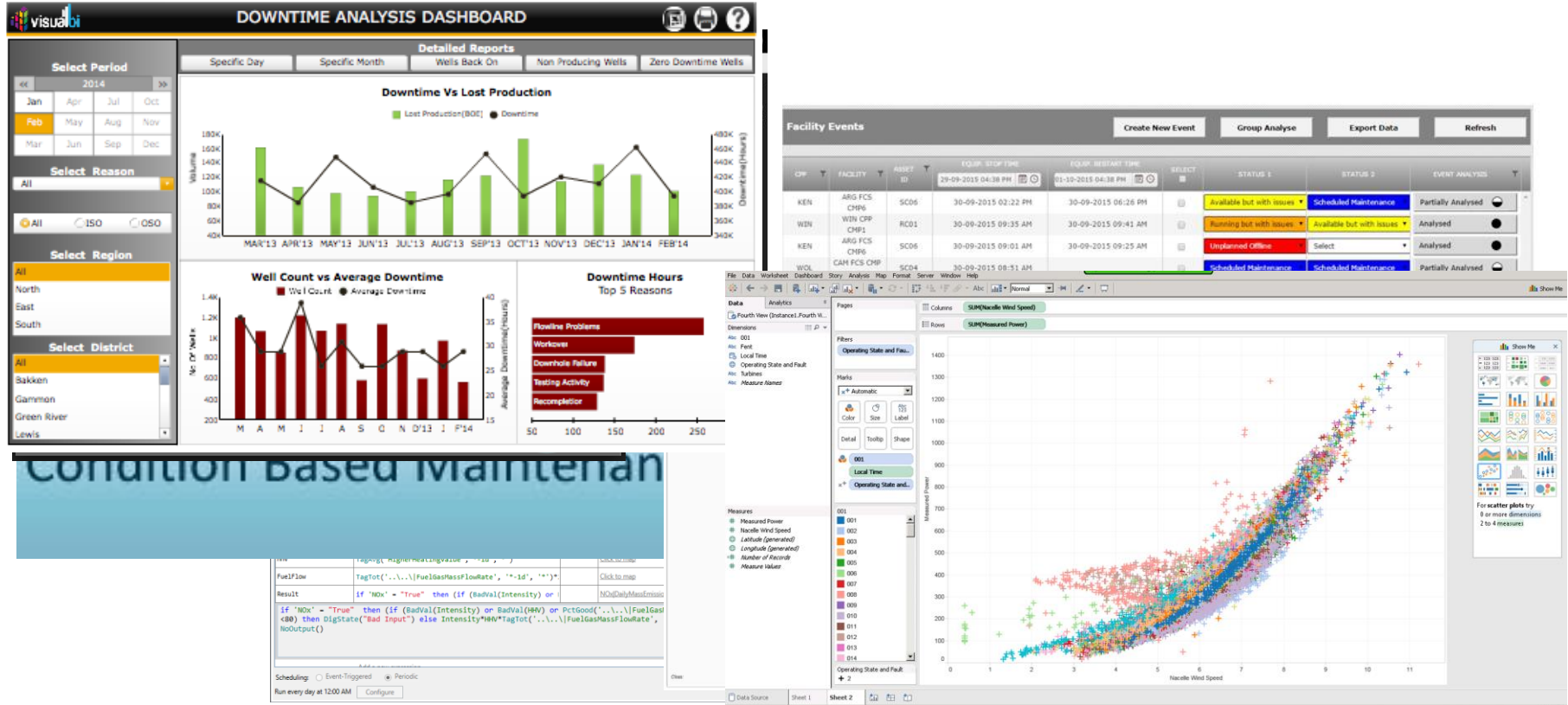
Data & Workflow Integrations

Analytics & Modelling

Automation

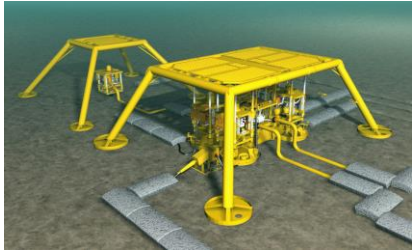


Digitalisation - Analytics & Modelling



Data & Workflow Integrations Analytics & Modelling Automation

Digitalisation - Automation



**Recommendations &
Response**



Workflows



**Robotics?
Assets?**



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Today's Presentations

Digital Transformation in a Downstream Business

Mr Anthony Berttilla Rozario

MES IT Senior Specialist

Releasing and Realizing the Potential
of the PI System



Real Time Analytics – Process & Maintenance Optimisation

Mr Mr Brendan Bell & Ionut Buse

Lead Technical Reliability Consultants

Intelligent Maintenance and Operations



Implementing a Real Time Digital Oilfield

Mr Muneer Al Balushi

Automation & RTO Lead

‘Smart Daleel’ Digital Transformation

دليل للنفط ش.م.م.
DALEEL PETROLEUM L.L.C.

Real Time Analytics & Maintenance Management Integrations

Mrs Reka Erdei & Mr Gábor Mucsina

Process Information Experts

Supporting Operational Availability with
the PI System and SAP PM



Petroleum Economist Award 2016 for Best Downstream Company of the Year

The Petroleum Economist Awards aim to celebrate the people, companies and projects which epitomize the best of the energy industry and to identify and reward examples of innovation and excellence.

In 2015 MOL Group's Downstream delivered its strongest ever performance with a Clean CCS EBITDA of USD 1.65bn alongside with strong free cash flow generation of more than USD 1bn.

The New Downstream Program (2012-2014), which targeted USD 500mn EBITDA was successfully complemented, MOL Group decided to react to further boost its profitability and competitiveness by launching the Next Downstream Program 2015-2017 (NxDSP).

The significant incremental improvement of the NxDSP may realize a 3 USD/bbl profitability boost by 2017.



FieldComm Group's Plant of the Year

FieldComm Group's Plant of the Year award is given annually to recognize the people, companies and plant sites around the world using the advanced capabilities of FOUNDATION Fieldbus, HART Communication and/or FDI technologies, IOT, IIOT, ML in real-time applications to improve operations, lower costs and increase availability.

This is a supplier and industry independent awards program.

To qualify, nominees must be able to supply documented examples of real-time integration of device diagnostics and multi-variable implementations with control, safety and plant information / asset management systems that have delivered significant benefits to the operation.



Deepwater FPSO Operations

Mr Mark Whitehouse
Project Manager
The PI System for a Deepwater
Oil & Gas Field



How Real Time Data & Analytics is Transforming Shell Operations

Mr John de Koning

Smart Solutions Technology Manager

Journey from Reactive to Predictive Operations



Oil & Gas PI User Groups

Join to discuss best practices, white papers, share news, and exchange ideas.

Objectives:

- Identify Best Practices
- Share knowledge and ideas across our industry
- Foster communication with OSIsoft regarding Industry needs

This is NOT an avenue for sales presentations or marketing



Want to opt in?

<https://pisquare.osisoft.com/groups/>

Upstream, Midstream, Downstream



Any Questions?

Visit the PI Square Booth

Jarita Sirois jsirois@osisoft.com



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Questions

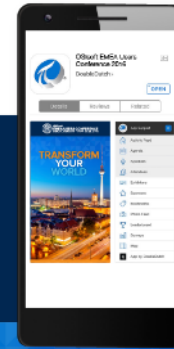
Please wait for the **microphone** before asking your questions



State your **name & company**

Please remember to...

Complete the Online Survey for this session



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감사합니다

谢谢

Danke

Merci

Gracias

Thank You

ありがとう

Спасибо

Obrigado



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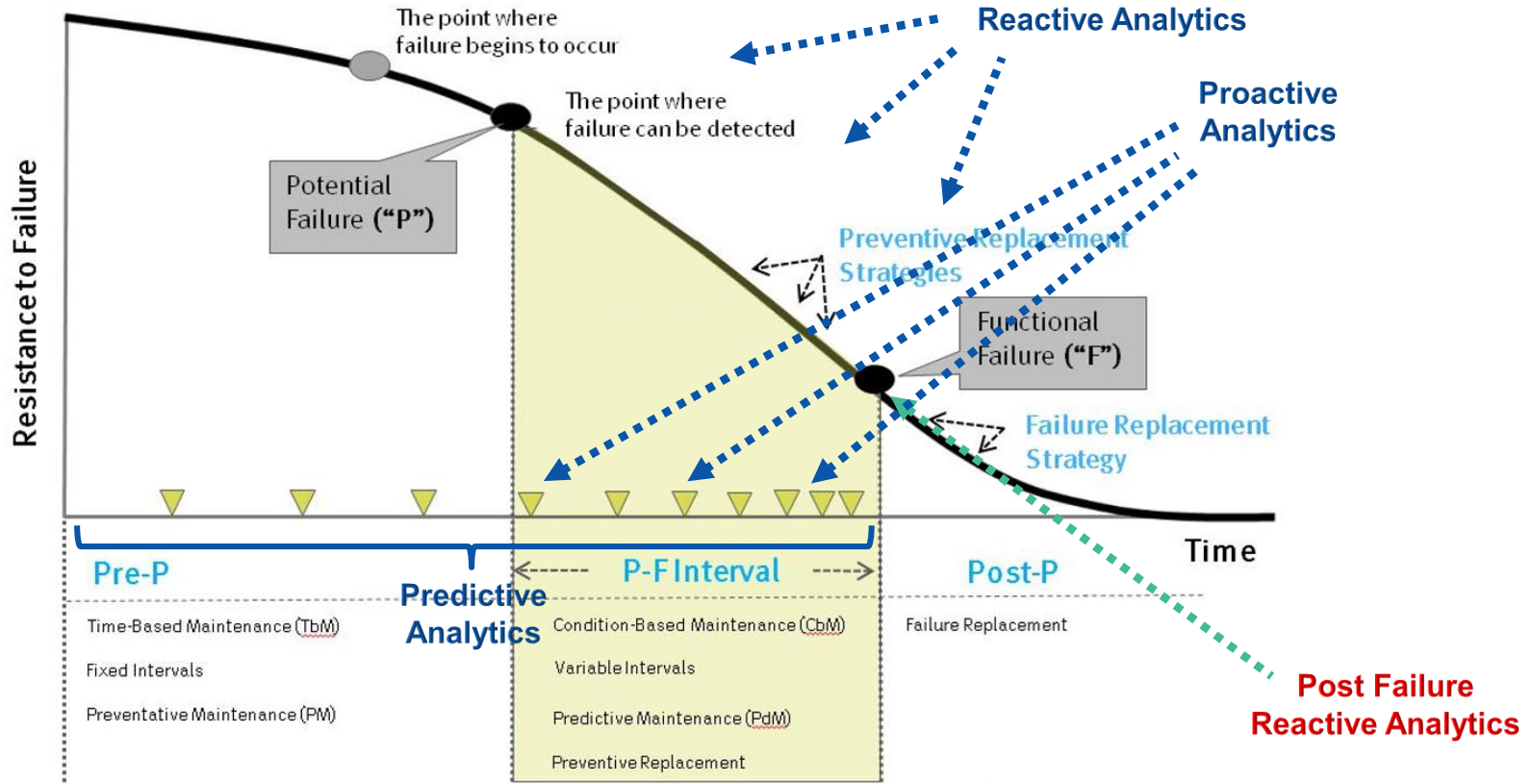
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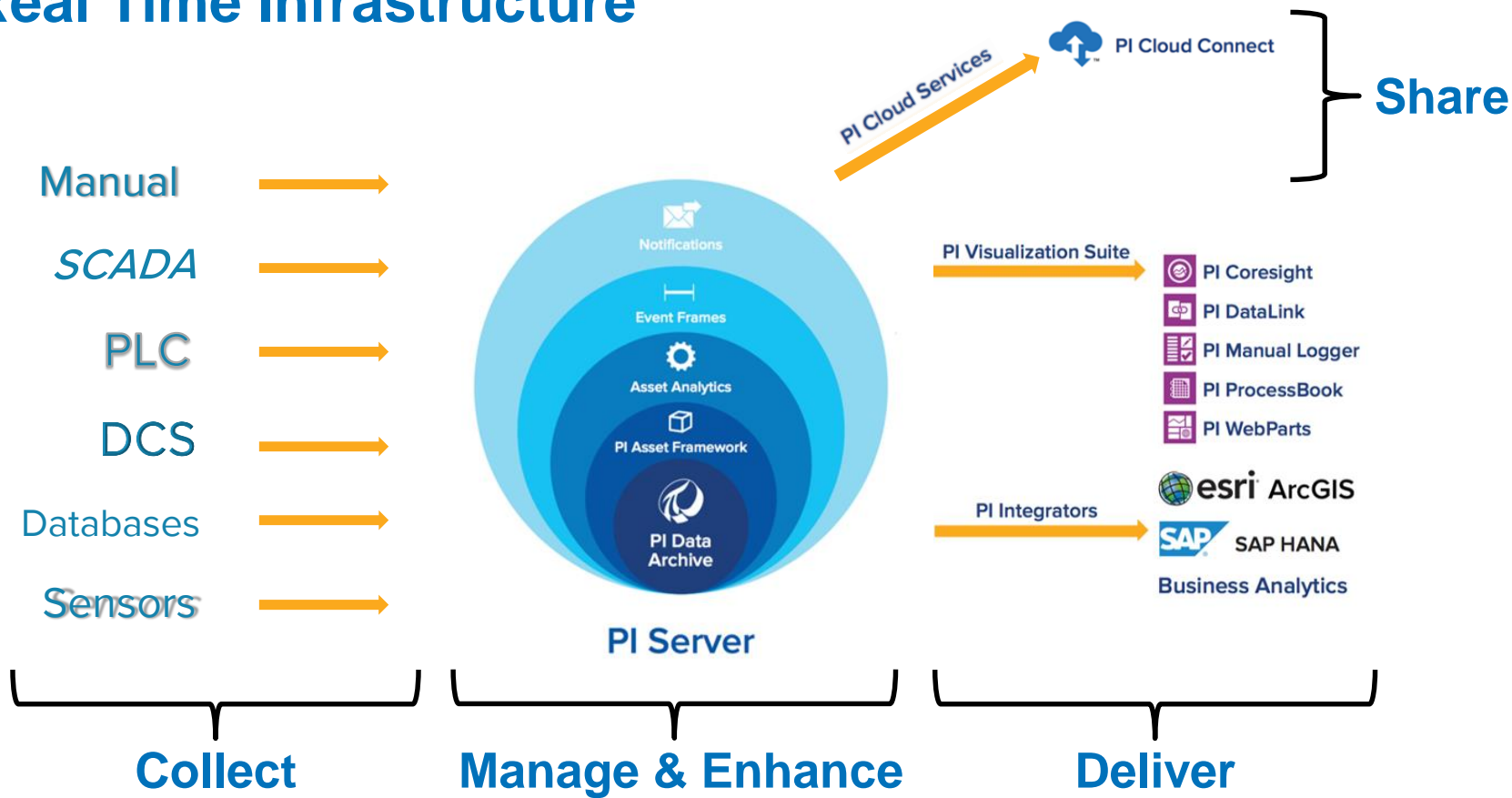


Reference Slides

Condition-Based Maintenance



PI Real Time Infrastructure



OSIsoft Product List

Connections

PI COM Connector

PI Connectors (some examples below)

- PI Connector for Cygnet
- PI Connector for IPMI
- PI Connector for EtherNet/IP
- PI Connector for Kongsberg

PI Manual Logger (PI ML)

PI Interfaces (some examples below)

- PI Interface OPC DA
- PI Interface for Modbus Ethernet
- PI Interface for Fast Fourier Transform (FFT) Data
- PI Interface for Universal File and Stream
- PI IT Monitor
- PI to PI Interface
- ...and many more

PI Integrators

- PI Integrator for Esri ArcGIS

Server

PI Server

- Event Frames
- Notifications
- Asset Calculations
- Asset Framework (AF) Server
- Data Archive Server

PI System Mgmt. Tools (PI SMT)

PI Tag Configurator

PI Collective

PI OPC DA/HDA Server

PI AutoPointSync (PI APS)

PI Batch

PI Cloud Connect

Tools

PI DataLink

PI Coresight

PI ProcessBook

PI WebParts

PI Visualization Suite (All above products are included)

PI DataLink for SharePoint

PI Profile View

PI Compliance Reporting

PI SQC

PI Profile View

PI BatchView

PI ActiveView

PI AlarmView

PI Data Access

PI ODBC

PI OLEDB Enterprise

PI OLEDB Provider

PI JDBC Driver

PI Web Services