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BERLIN, GERMANY • SEPT 26-29, 2016



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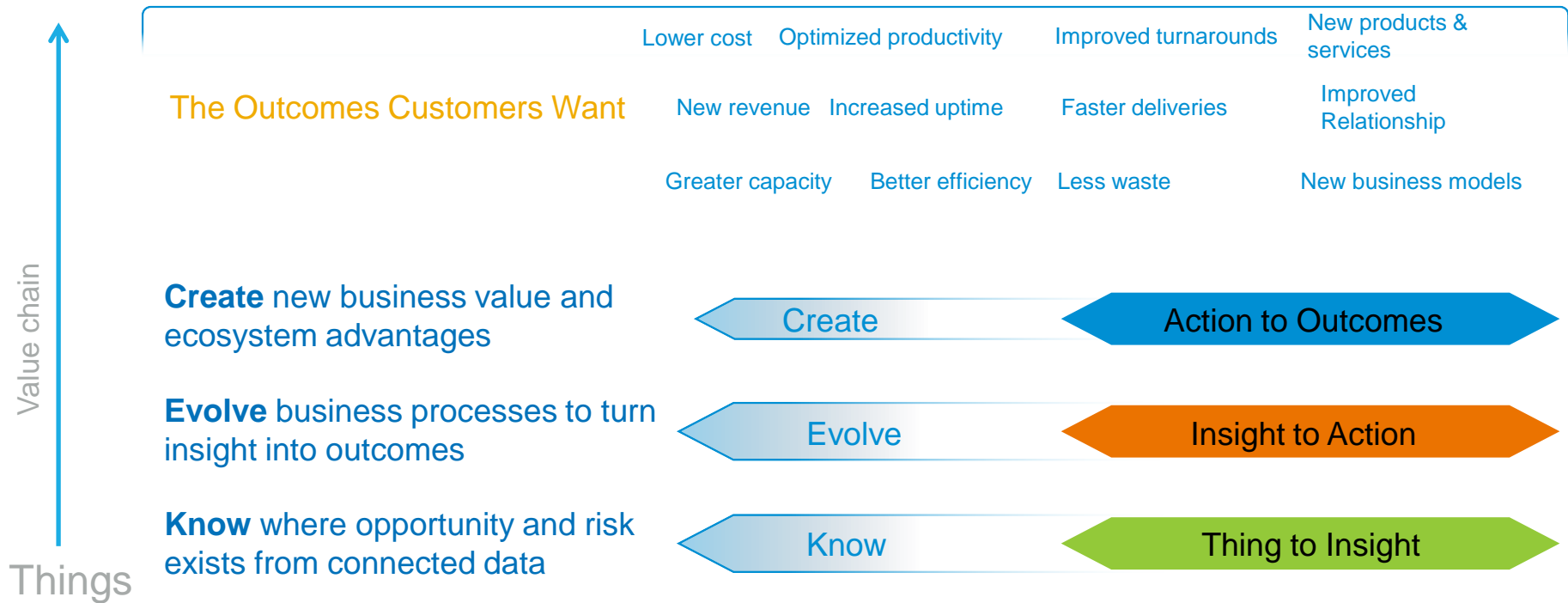
IT/OT Convergence Better Together with SAP and OSIsoft

Presented by **Ken Pierce & Frank Ruland**



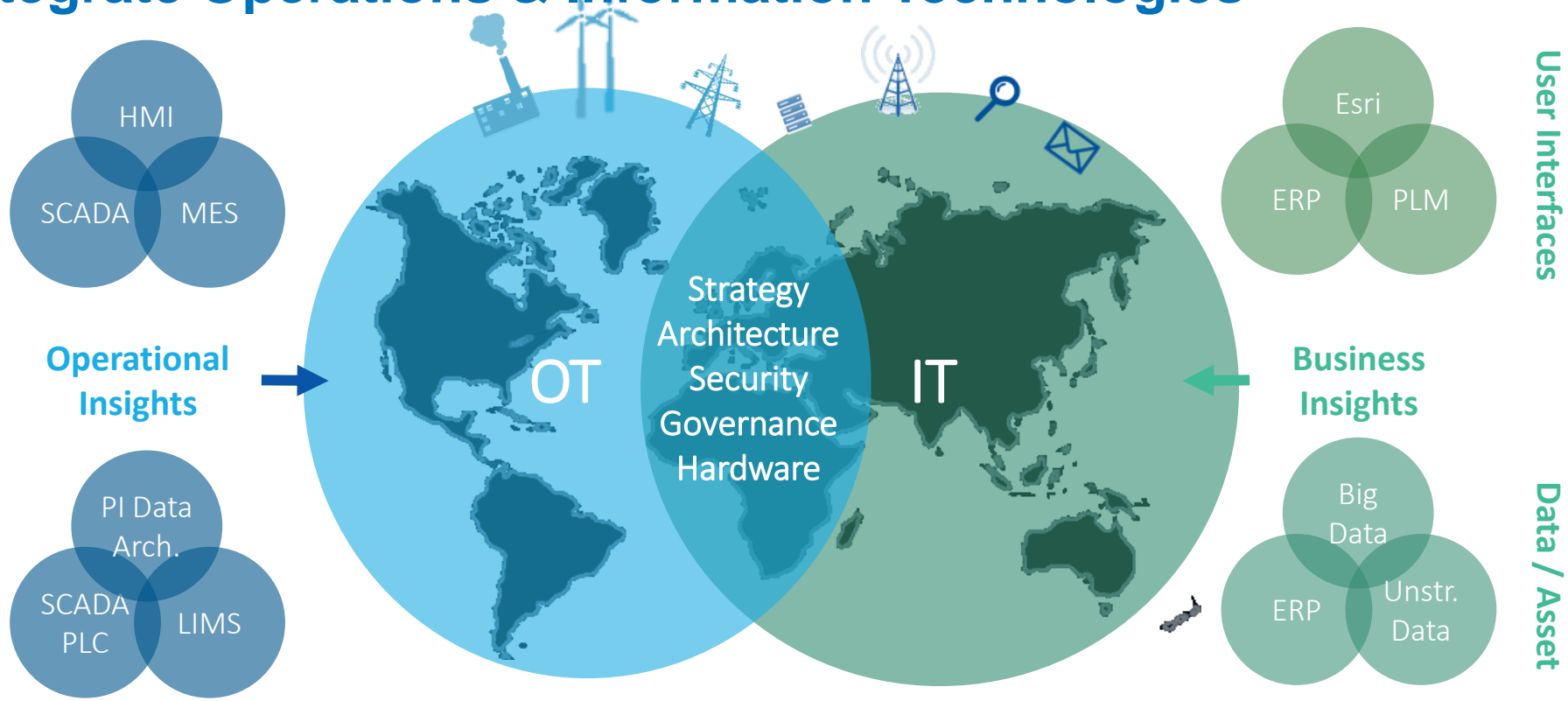
IoT from Things to Outcomes

Outcomes



IT/OT Convergence

Integrate Operations & Information Technologies



Enabling digital enterprises to do business innovation



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IT/OT Convergence Outcomes

62%

Reduction in
unplanned outages

17%

Lower annual
service and
maintenance costs

28%

Increase in
productive
wrench time

7%

Sustained
annual energy
reduction

1. Analyze real-time asset data to better understand asset performance impacts on business execution
2. Increase operational productivity and business efficiency
3. Decrease business and operational risks
4. Increase enterprise intelligence and transparency for operational and business processes
5. Optimize assets, processes, and production for operational efficiency

IT/OT Convergence Use Cases

Data from Controls (OT)

➤ Sensors, SCADA, DCS, Historians

Data from the Enterprise (IT)

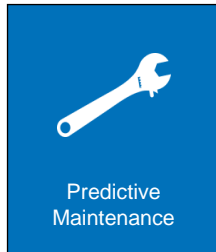
➤ ERP, MRO, Analytics, Asset Mgmt



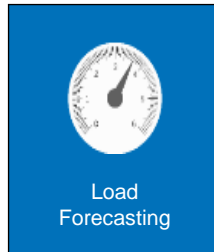
Overall
Equipment
Effectiveness



Production
Enforcement
and Execution



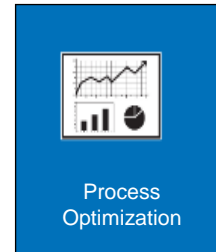
Predictive
Maintenance



Load
Forecasting



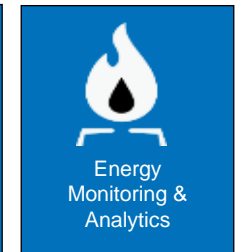
Product
Quality



Process
Optimization



Assets Health



Energy
Monitoring &
Analytics

The SAP HANA IoT Integrator by OSIsoft

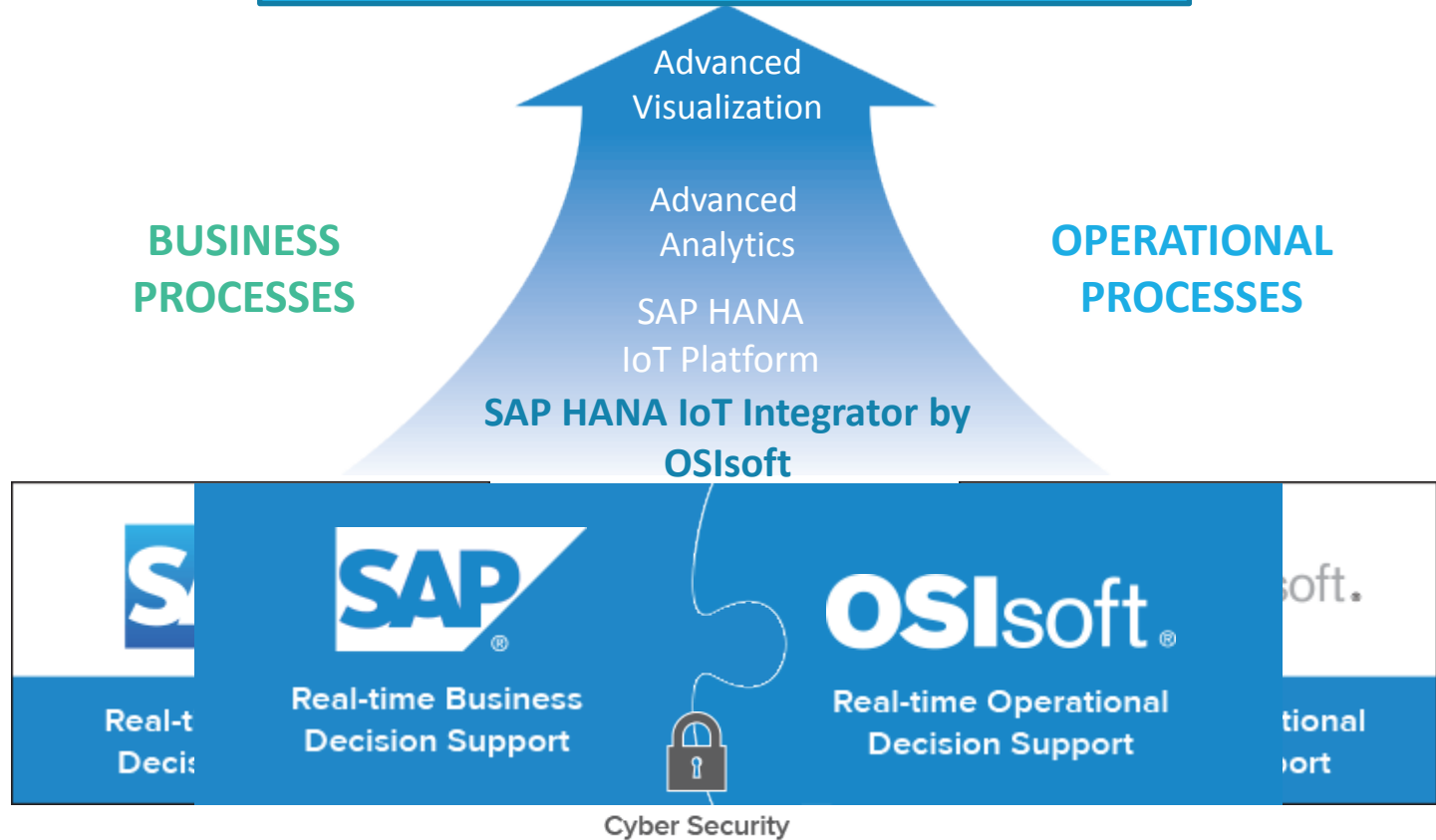


Merges operations data from OSIsoft with SAP business data in a common HANA environment

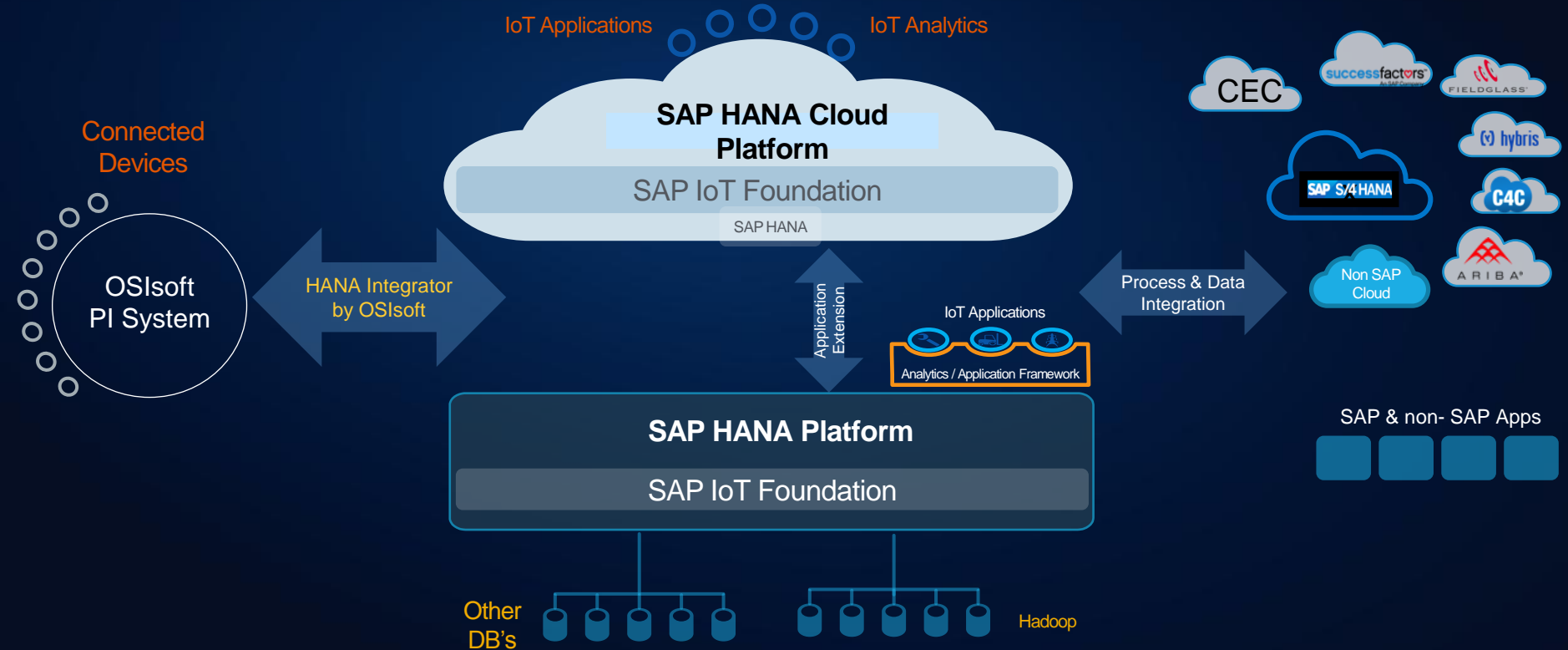
- Accesses rich data sets generated by control and automation systems and smart devices
- Blends time-series data with transactional business data
- Enables enhanced business analytics and deliver applicable business insights
- Build new analytics and models in a common environment.



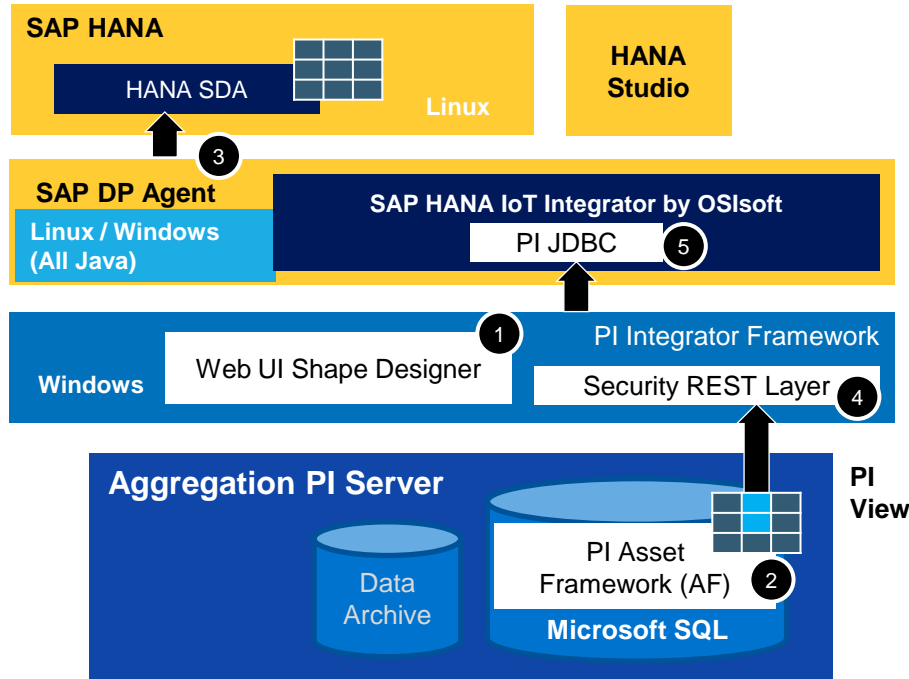
IT/OT Convergence



HANA Integrator by OSIsoft & SAP IoT Platform



Solution Architecture



1

User creates PI View in Web UI Shape Designer via PI Integrator Framework

2

PI View definition is stored in PI System (AF). PI View data is stored in optimized format in AF-managed SQL Server

3

SAP HANA user configures virtual tables in SAP HANA Studio using SAP HANA SDA and SAP HANA IoT Integrator by OSIsoft

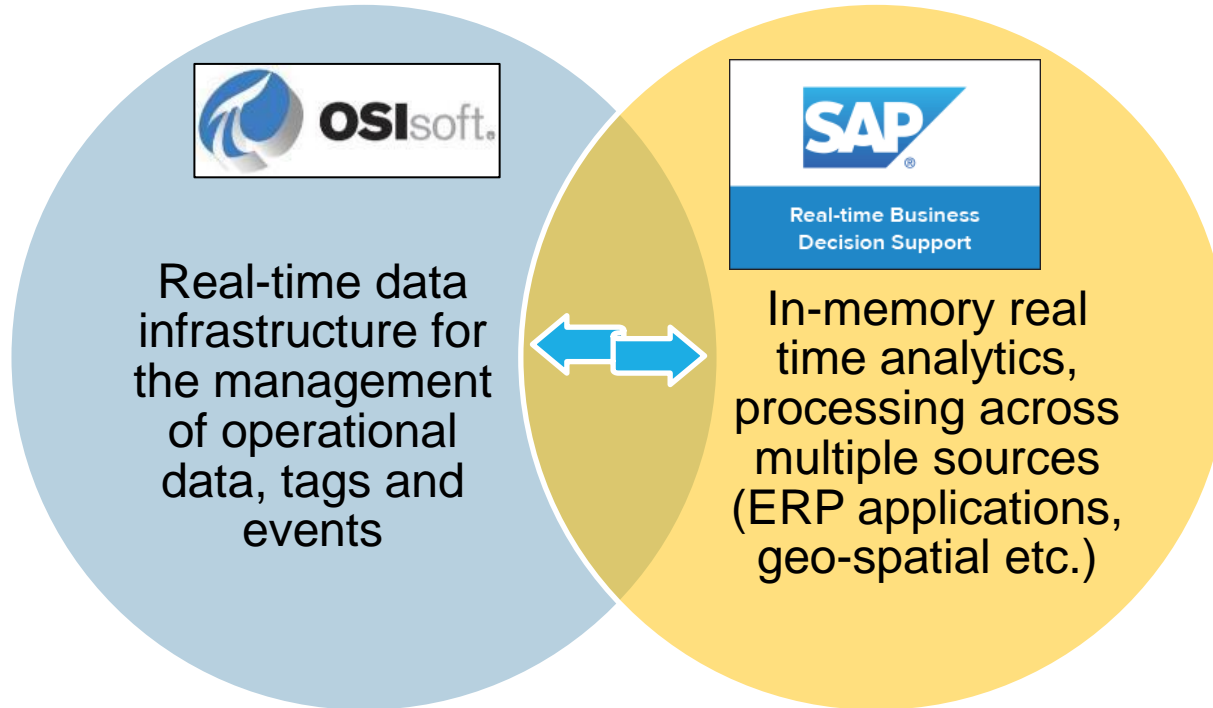
4

SAP HANA IoT Integrator by OSIsoft controls access to PI Views via a REST layer in the PI Integrator Framework

5

SAP HANA IoT Integrator by OSIsoft retrieves data from PI View located in SQL Server via PI JDBC driver

Better Together ...



Questions

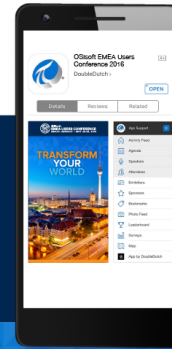
Please wait for the **microphone** before asking your questions



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감사합니다

谢谢

Danke

Merci

Gracias

Thank You

ありがとう

Спасибо

Obrigado



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