OSIsoft。 USERS CONFERENCE 2016

April 4-8, 2016 | San Francisco

TRANSFORM YOUR WORLD



Digitization and Innovation: Explore how OSIsoft's Infrastructure and the SAP HANA Platform help customers in their Digital Transformation Journey

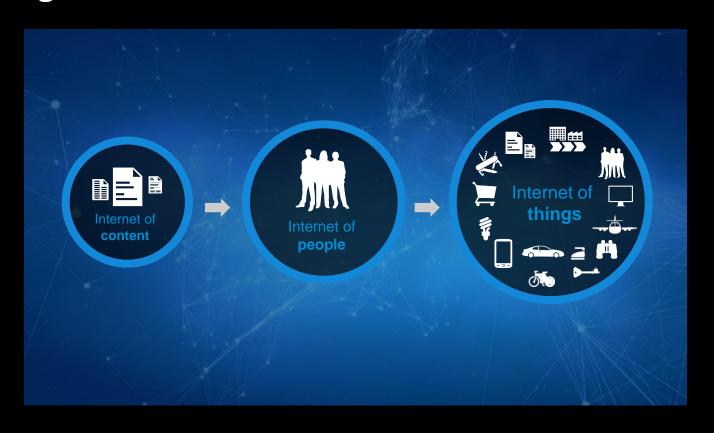
Presented by Bala Ram

VP, SAP Americas

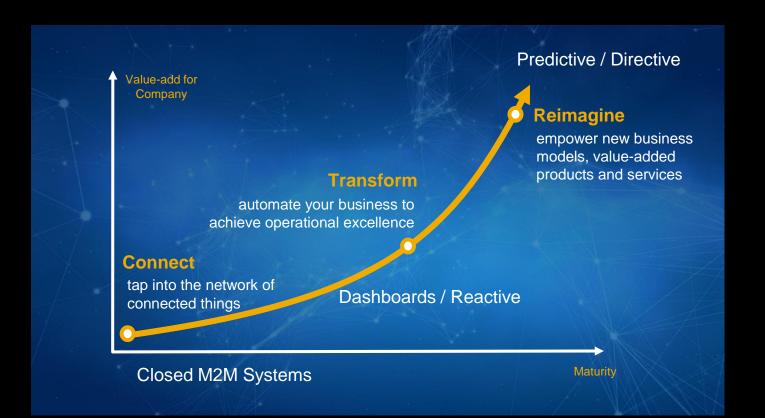




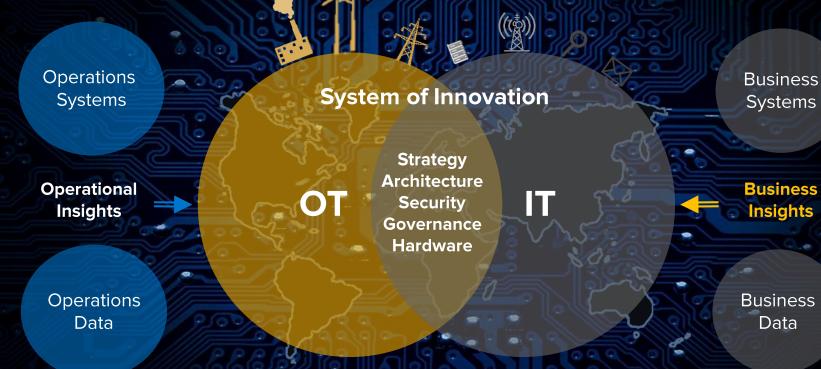
Internet of Things (IoT) is connecting information, people, and things



Internet of Things – adoption curve



System



Business Data



Enabling digital enterprises to do business innovation



SAP HANA Platform and OSIsoft PI Server

Enable real time IT/OT convergence

Visualization and **Applications**

SAP Business Suite incl. SAP IS-U

SAP **Business** Intelligence **Further SAP Solutions** e.g. Predictive Maintenance

Partner Solutions Customer Solutions

T. **Systems**

SAP HANA Platform

SAP HANA

IoT Connector by OSIsoft

Operational Data

Data Sources

OSIsoft PI Real Time Event Infrastructure

OMS

EMS

DCS/ **PCS**

PMU

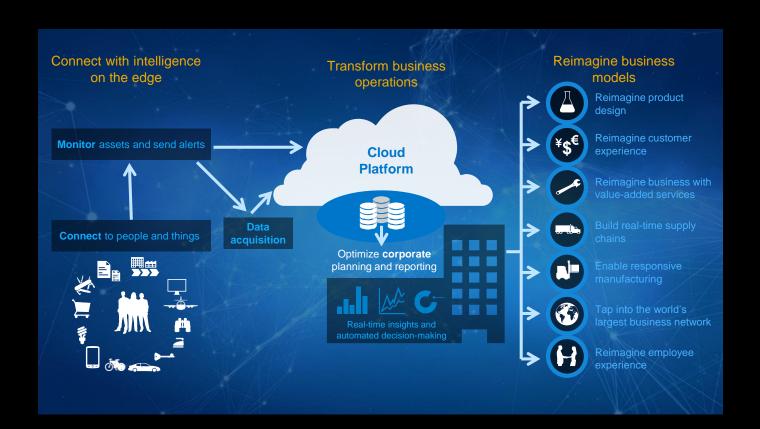
SCADA

Ext. Data Historians

OT **Systems**



SAP enables IoT from core to edge



Re-imagine Forecasting and Planning

Devices

DCS PLC/SCADA Windmill Solar panel

Data Sources





Forecast

Load

Capacity

Asset

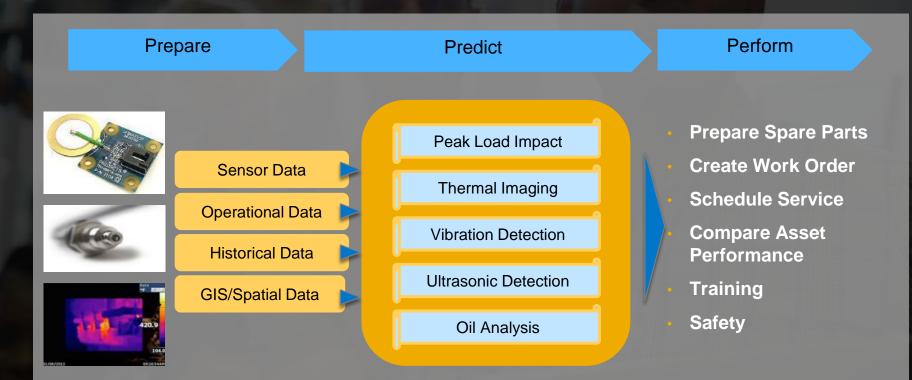
Plan

Investment

Rate Plans

Demand Response

Re-imagine Maintenance Work



Re-imagine Customer Engagement

Access Analyze Act **Energy Usage Patterns Demand Response Programs** Cost of Service **Decarbonization Efforts Smart Home Products, Price Elasticity Services Multi-channel Customer** Intimacy Renewable Energy Alternatives

Digital Platform Providing Comprehensive Solution



OSIsoft

Devices / Sensors

SAP Data Services





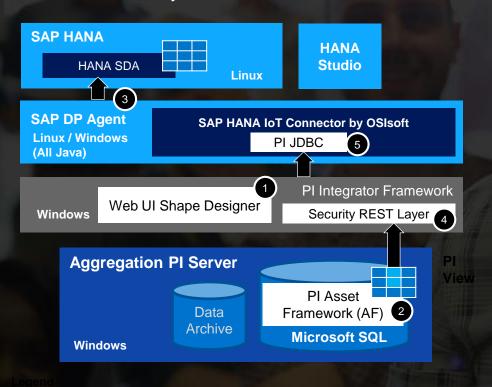
SAP ECM by Open Text



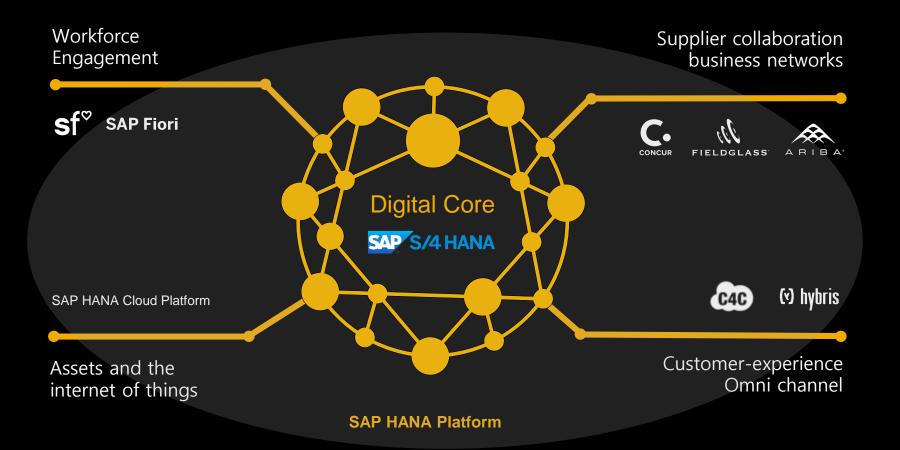


SAP HANA with IOT Connector: Solution architecture

Data federate PI System data into SAP HANA via SAP HANA Smart Data Access



- User creates view in Web UI Shape Designer via PI Integrator Framework
- View definition is stored in PI System (AF).
 View data is stored in optimized format in AFmanaged SQL Server
- SAP HANA user configures virtual tables in SAP HANA Studio using SAP HANA SDA and SAP HANA IoT Connector by OSIsoft
- SAP HANA IoT Connector by OSIsoft (Java, HANA SDK) controls access to the views via a REST layer in the PI Integrator Framework
- SAP HANA IoT Connector by OSIsoft retrieves data from view located in SQL Server via PI JDBC driver



Contact Information

Bala Ram

Bala.ram@sap.com

Vice President

SAP



Questions

Please wait for the microphone before asking your questions

State your name & company

Please remember to...

Complete the Online Survey for this session





http://ddut.ch/osisoft



감사합니다

Danke 谢谢

Gracias

Merci

Thank You

ありがとう

Спасибо

Obrigado



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