



**OSI**soft

### INDUSTRY 8 SEMINAR 5

E M E A

The **Power** of **Data** 





## PI System Roadmap

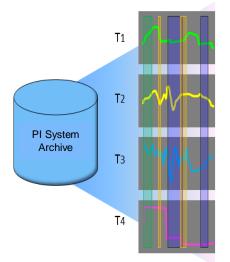
Presented by Christian Leroux, EPM

#### PI System Themes - Future





Asset Centric
PI System
Manage data via
Asset context –
Reuse many times



#### **Event Frames**

Identify and use important events and related data



#### Mobile

Many Devices
Touch Centric
Role Focused

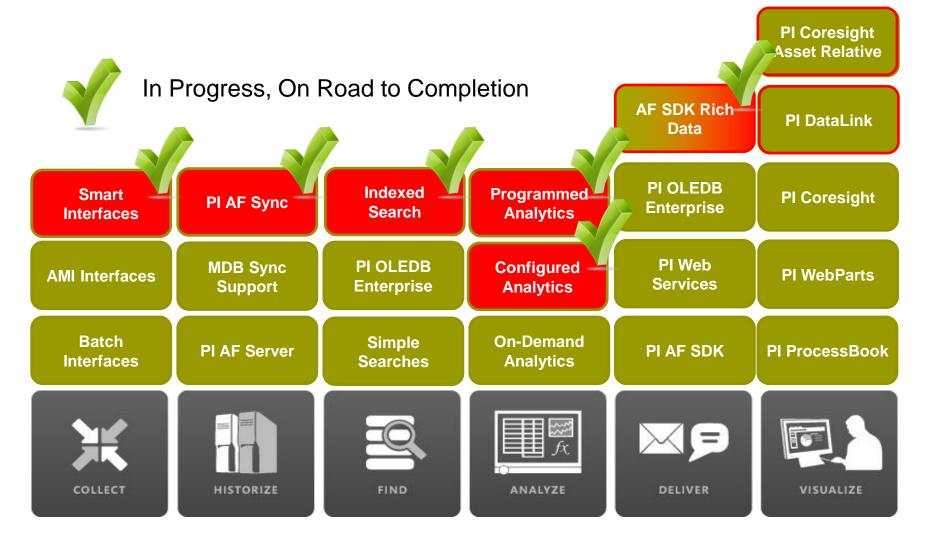


#### Cloud

More Data Access Anywhere Trans-Enterprise

## Asset Centric PI System - Scorecard





#### PI AF to PI AF Scenarios

- Implement corporate standards
- Ensure commonality across enterprise
- Configuration changes, updates

PI Event Frames and data to support analysis and KPIs



Templates





## Project Abacus Configured and Programmed Calculations for PI AF



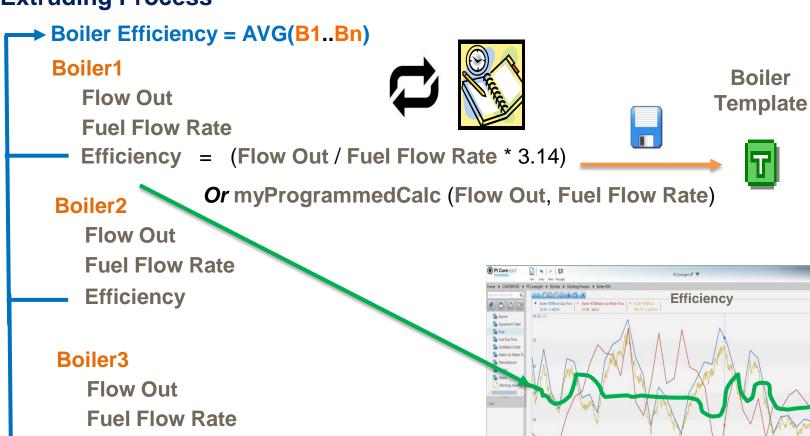


#### **Project Abacus Use Case**



**Boiler** 

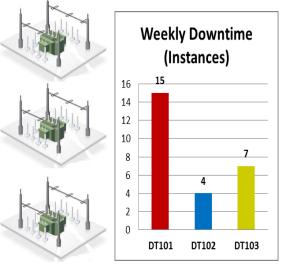
#### **Extruding Process**

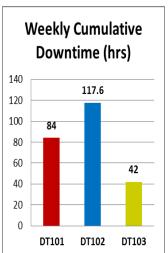


**Efficiency** 

#### **Event Frames**







#### **Simplify Data Analysis**

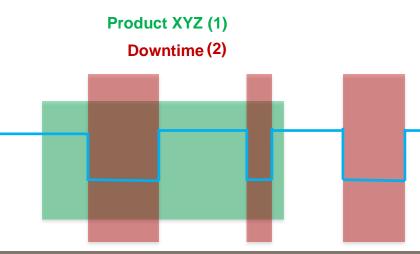
#### **Event Overlay Trend (Temp)**



NameTemp.MaxEF1122.47EF2109.34EF3112.73EF498.61EF5125.24

**Perform Asset Comparisons** 

#### **Downtime Events for Product XYZ**



**Perform Event Comparisons** 

**Discover Event Interrelationships** 



#### **EVENT FILTERS**

Duration
Longer
Than
Than

O m

200 m

#### **Category**

All None

- ✓ Excursions (4)
- ✓ Downtime (3)
- ✓ Product XYZ (1)

#### **Template**

All None

- ✓ Boiler Downtime (3)
- ✓ Boiler KPI
- Excursion (4)
- ✓ PlUnitBatch (1)

Temp.Max	
Greater	Less
Than	Than
<u>c</u>	100 C
Cart	

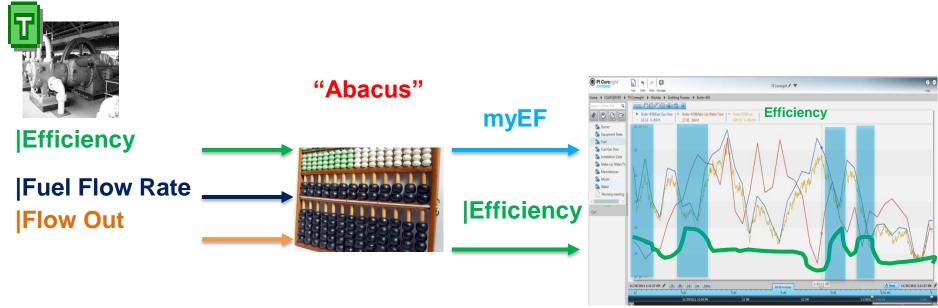


RelatedEvents2

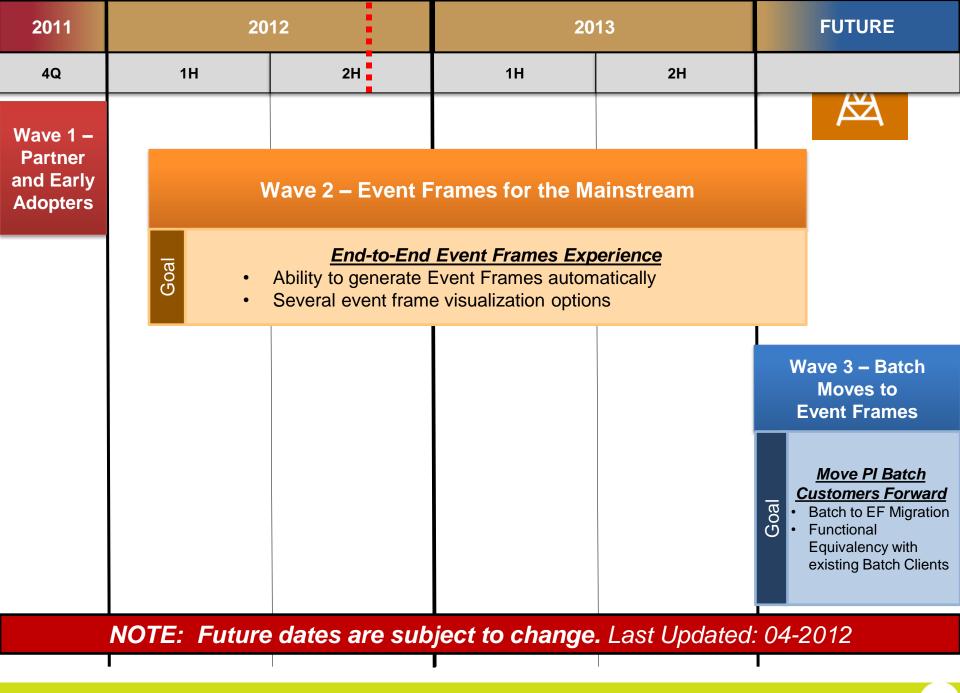
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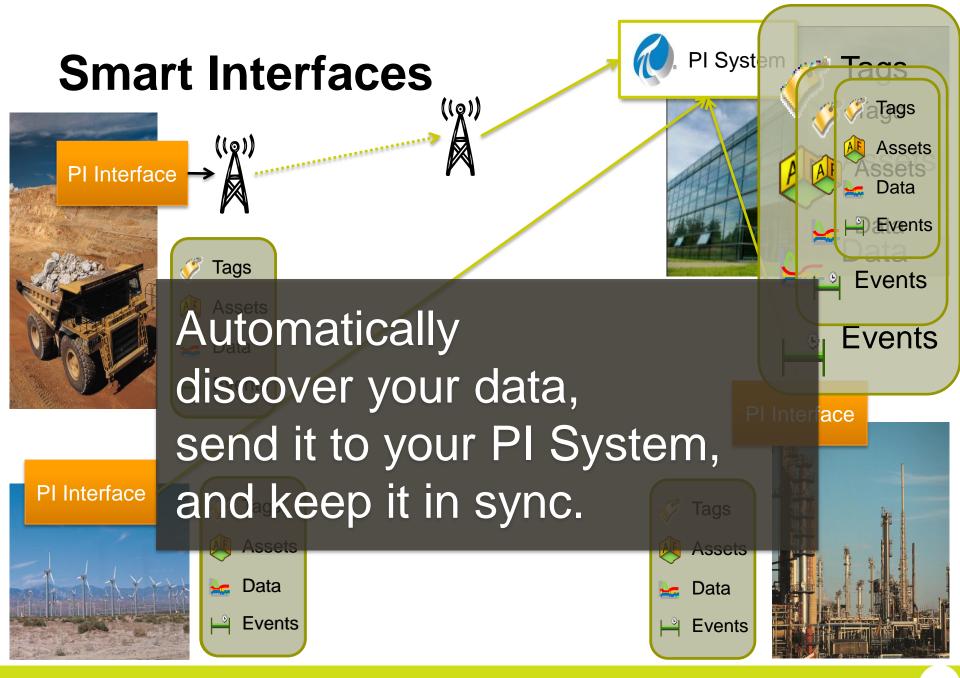
#### **Event Generation in Abacus**





```
Efficiency = (Flow Out / Fuel Flow Rate * 3.14)
```





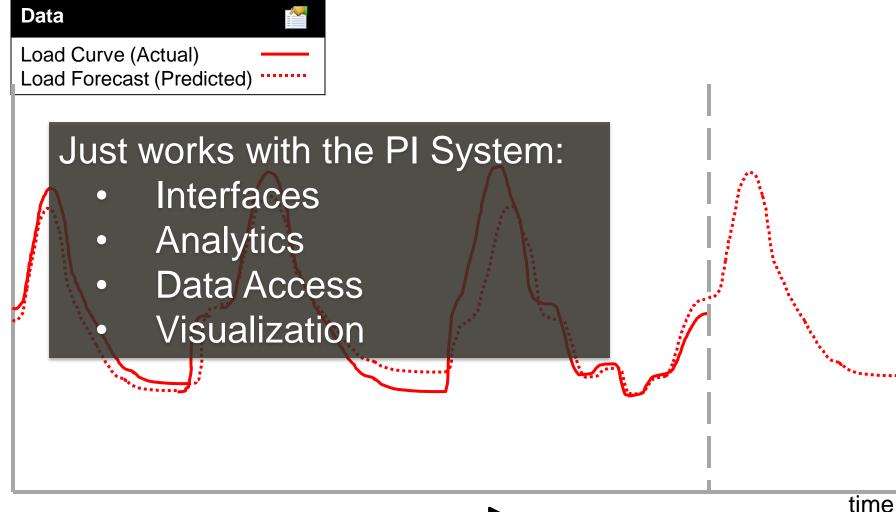
#### Find - PI System Search



- Optimized Search Engine for the whole PI System
  - And perhaps related systems
- Indexed for high performance
- Weighted / Ranked Results
  - Helps you find things more easily
- Can crawl many PI System machines
- Includes client artifacts
  - PI ProcessBook Displays, PI Coresight Displays
- Common User Experience

#### **Future Data – Next PI Server**





#### PI Data Access, longer-term



PI System SDK

 A single high performance SDK that allows you to access all PI System data

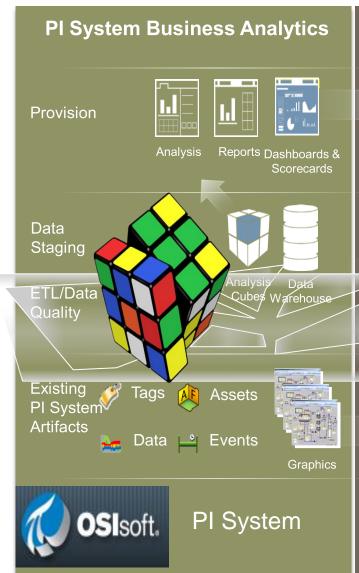
RESTful Web Services

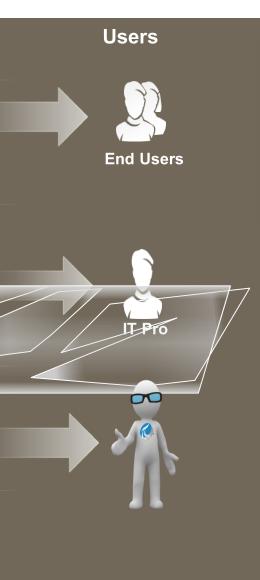
 Emerging web service standard, ideally suited for mobile and cloud

Integration Services

 Makes business system integration easy, not just possible (ERP, BI)

#### **Project Rubik – Why?**







#### **Power View**

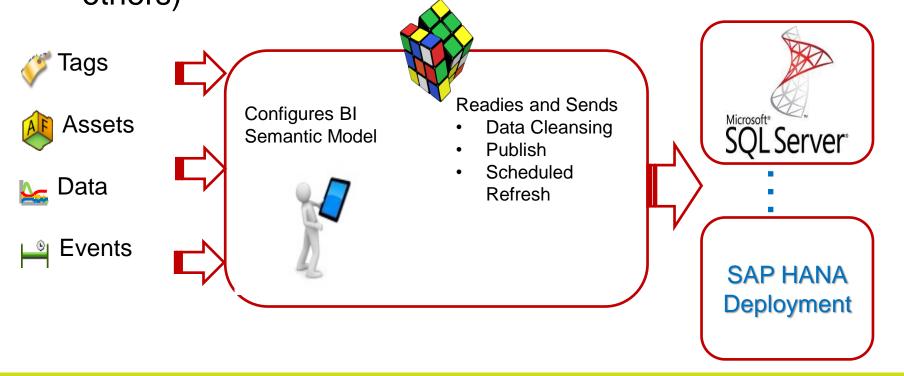


#### **Project Rubik**



- Bridge the gap between PI System experts and BI Users
- Allow PI System expert to select the data

Leverage BI Visualization Tools from Microsoft, SAP (and others)



#### Visualization Landscape











Explore Review PI Clients

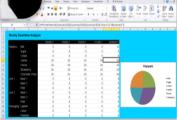
Report



Display authoring and **Process monitoring** 

PI DataLink: Reporting and table

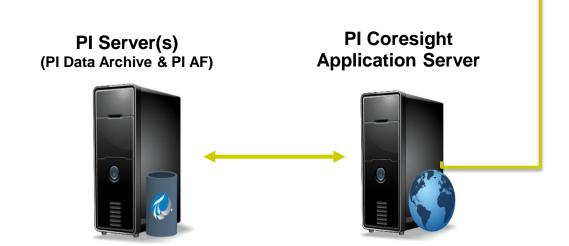
based analytics in Microsoft Excel



#### PI Coresight with Mobile Clients







#### PI Coresight Tablet Edition

- Plant / Operations Management
  - Most likely to have iPad or similar device
  - Overview of how the plant/utility is running
  - Failures, Efficiency, KPIs, Actual vs Forecast
- Process Engineers / Corporate Plan
  - Identifying problems
  - Optimize processes plant to plant
  - Create Content / Displays for managem



- Manual Data Entry / Problem Recording
- Troubleshooting documents and real-t
- Calibration







#### PI Coresight Phone Edition



- Check in with Plant from Home / Road
- Tell me if something is wrong!
- Focus on Notifications, Acknowledge, Dispatch, and Escalation
- Give me some basic data related to notification
- Outside of plant 3G, 4G, or public WiFi
- Personalization

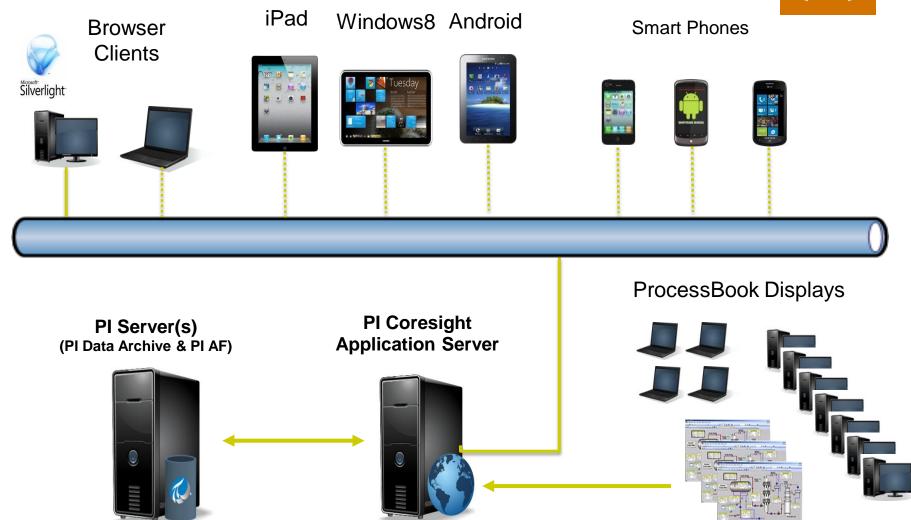
#### PI Coresight iPad Demo





#### PI Coresight with ProcessBook





#### PI WebParts 2012



- Support for SharePoint 2010 and SharePoint "15"
- Become a better SharePoint corporate citizen
- Become a more "IT" friendly product
- Replace obsolete technology
- Set the stage for OS and Browser independence, Mobile



- Remote Data Services
- WSP Installs
- Can leverage Adobe SVG Viewer if needed
- Support for IE 8



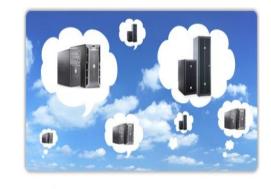
- Remote Data Services
- WSP Installs
- Visualization using Web Standards
- Support for IE9, IE10, Firefox, and Chrome

#### **Evolution of Operating Systems**























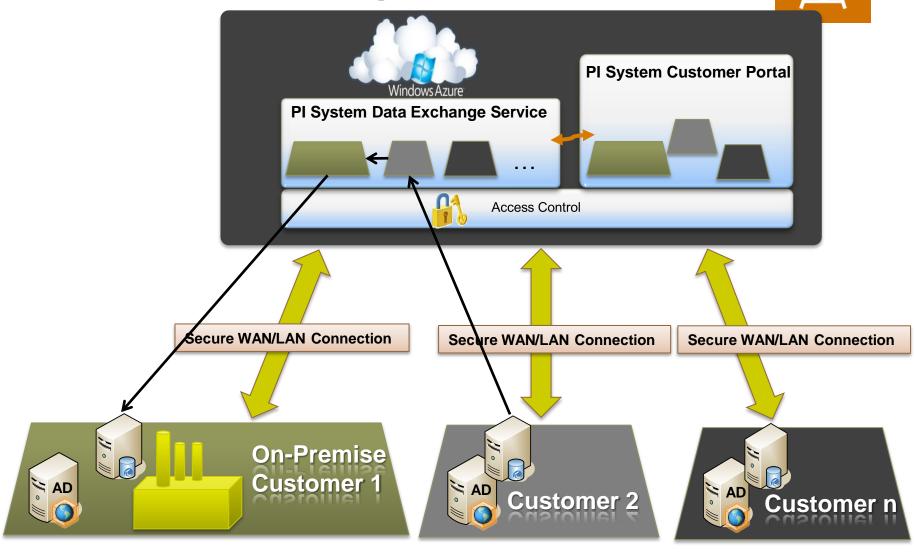
#### PI Cloud Initiatives



- Add to existing PI System installations
- PI System Management
- PI Data Exchange
- PI Coresight Service
- Data, Visualization and other services for Partner and Custom Apps

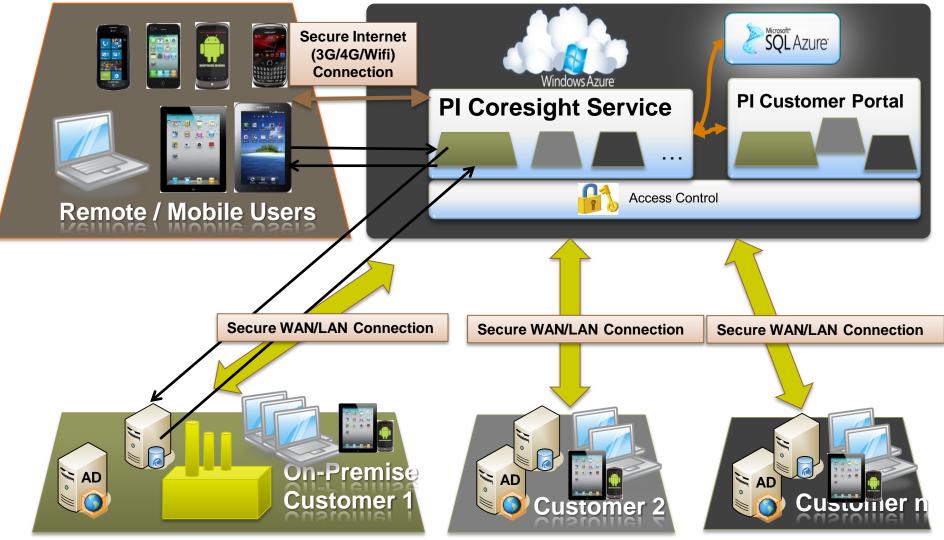
- Full PI System Deployment in the Cloud
- Simplified Deployment and Management
- Take advantage of the Windows Azure Platform (PaaS)
- Functionality you know in the PI System today plus much more
- Highly efficient and elastic

#### PI Data Exchange Service



#### PI Coresight Service for Mobility



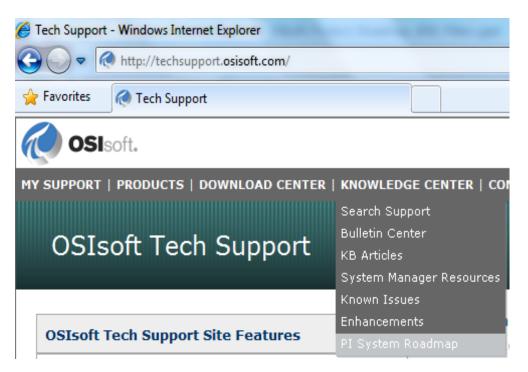


#### Stay Up-To-Date on the Web



 PI System Roadmap on OSIsoft Technical Support Site

http://techsupport.osisoft.com/techsupport/NonTemplates/roadmap.aspx







# THANK

