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Event Frames, How to Provide Context to Critical Events, Pharma and Life Sciences

Presented by **Paula Baquer & Hervé Bajolle**

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The real title…

How do I find my data!!???!!, It’s 6PM and My Boss Needs an Answer NOW!

Presented by **Paula Baquer & Hervé Bajolle**

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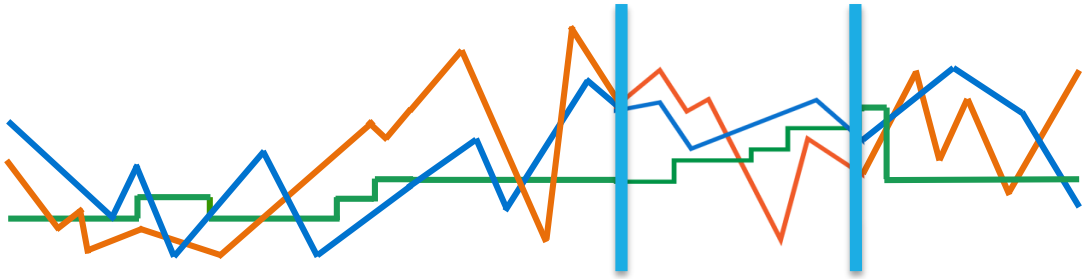
This is important!



Hey Boss, take a look at this!

Let's bookmark this!

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Event Frames

Event Frames automatically bookmarks and summarizes PI System time-series data so that it's more meaningful to engineers and business users, AND easier to for them to find, an and report on.

Event Attribute	Value
Name	Ex 20121215-0002
Start	15-Dec-2012 10:35:02
End	15-Dec-2012 10:47:26
Duration	12 min, 24 sec
Asset	Bioreactor 342
Product	Xhum23
Recipe	43F
Temperature Min	19 C
Agitator Max	4 RPM

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PI System in 2016: Event Infrastructure Capabilities

- Visuals
- Excel and Compliance Reporting
- Big Data Integration
- Event Generation & Interfaces
- S88 Hierarchy Support
- AF Power and Scalability

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What are our customers saying?

"Clearer picture of my process."

"Easier Batch Analysis."

"Easily Analyze Events."

"Saves a lot of time to automatically link data to events."

"More configuration, less programming."

"View our time series data in a meaningful way."

"Easier reporting."

"Early event detection before they become a problem."

"An integrated system is a force multiplier."

"EF are the life line for our process data."

"Event Frames may be the single most powerful thing you guys have done…, and now that we are starting to use them more, we are finding more use cases."

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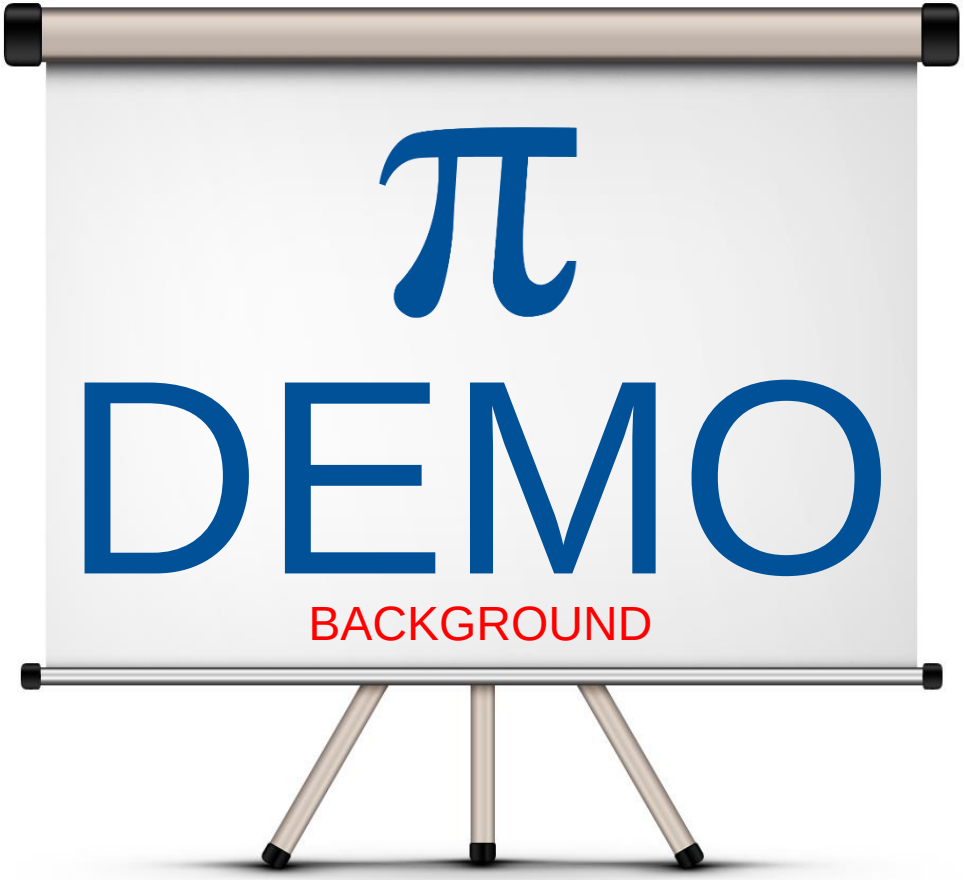

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OSIsoft Event Frames UC Stories

UC2013

UC2014

UC2015

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Pharma & Life Sciences

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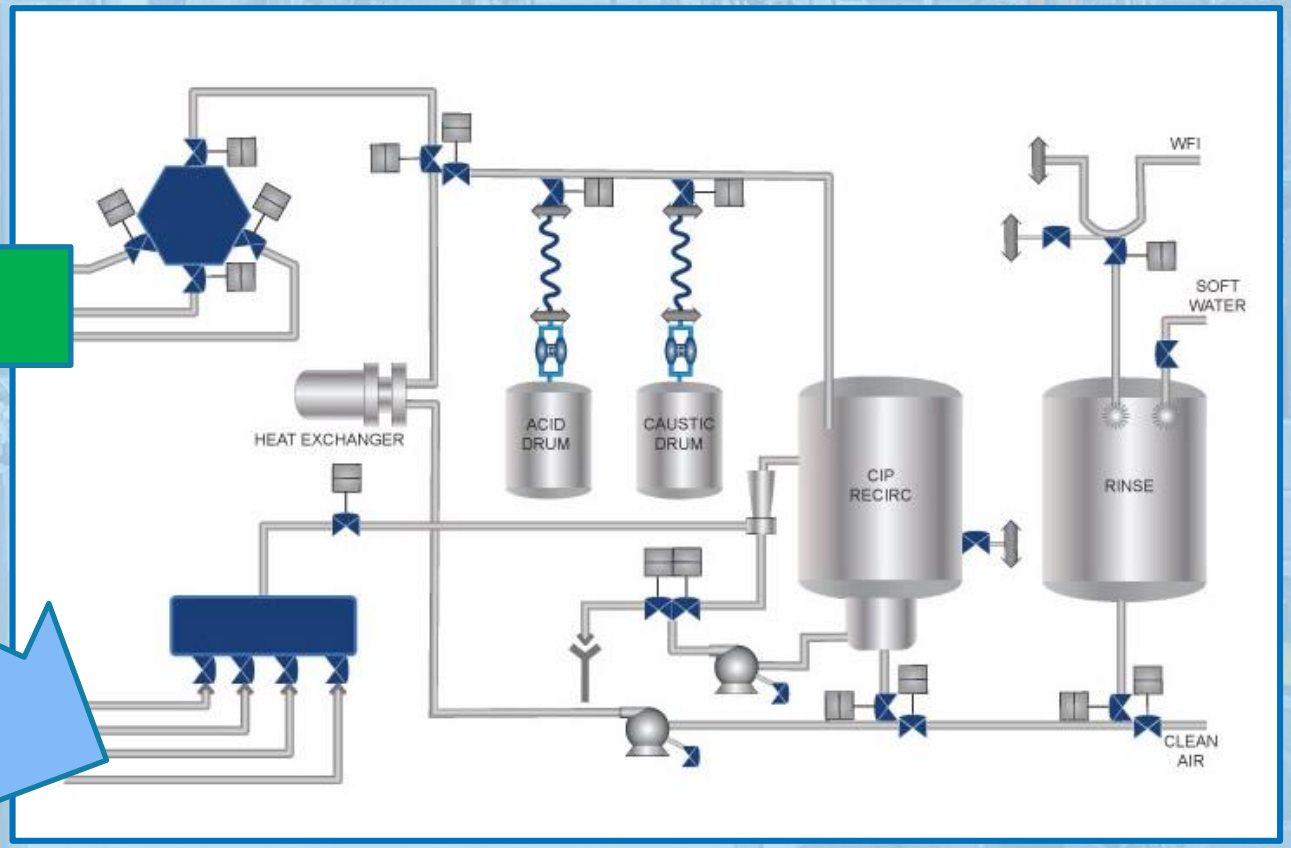
Clean in Place - CIP



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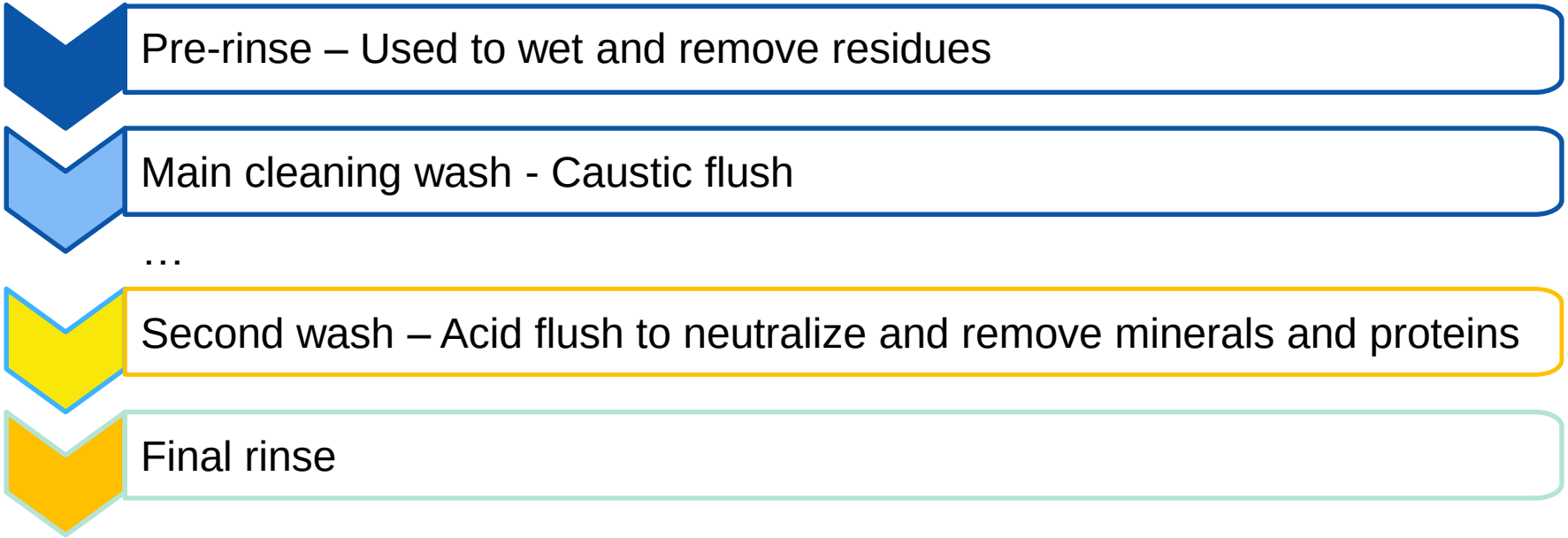
Clean in Place - CIP



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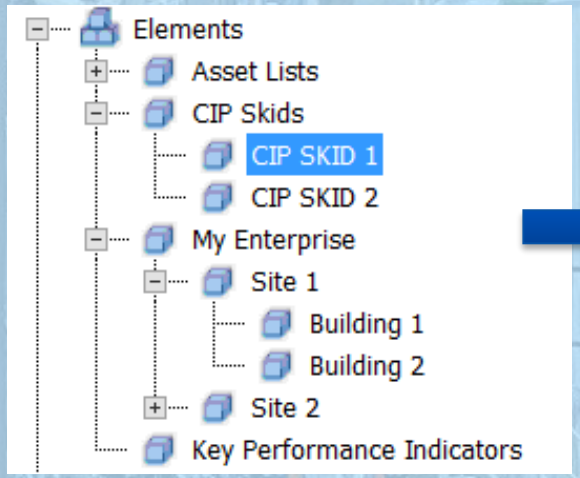
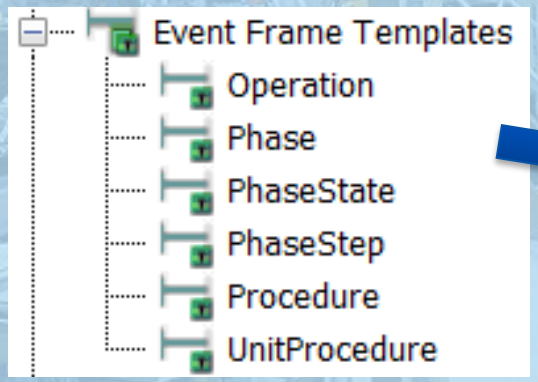
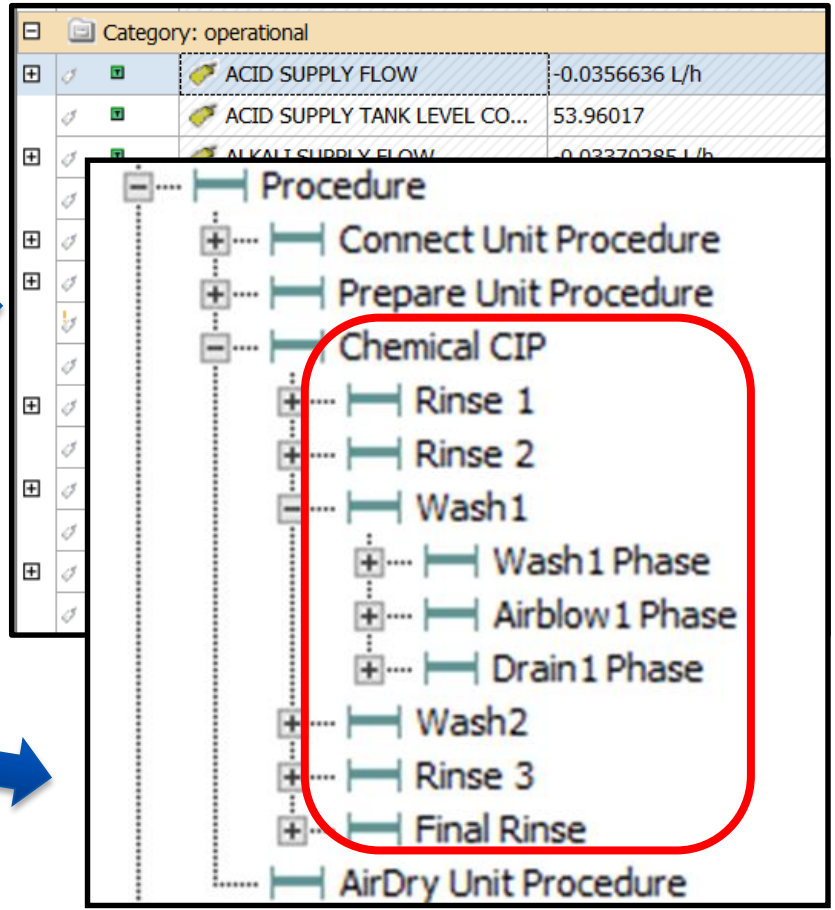
CIP Skids







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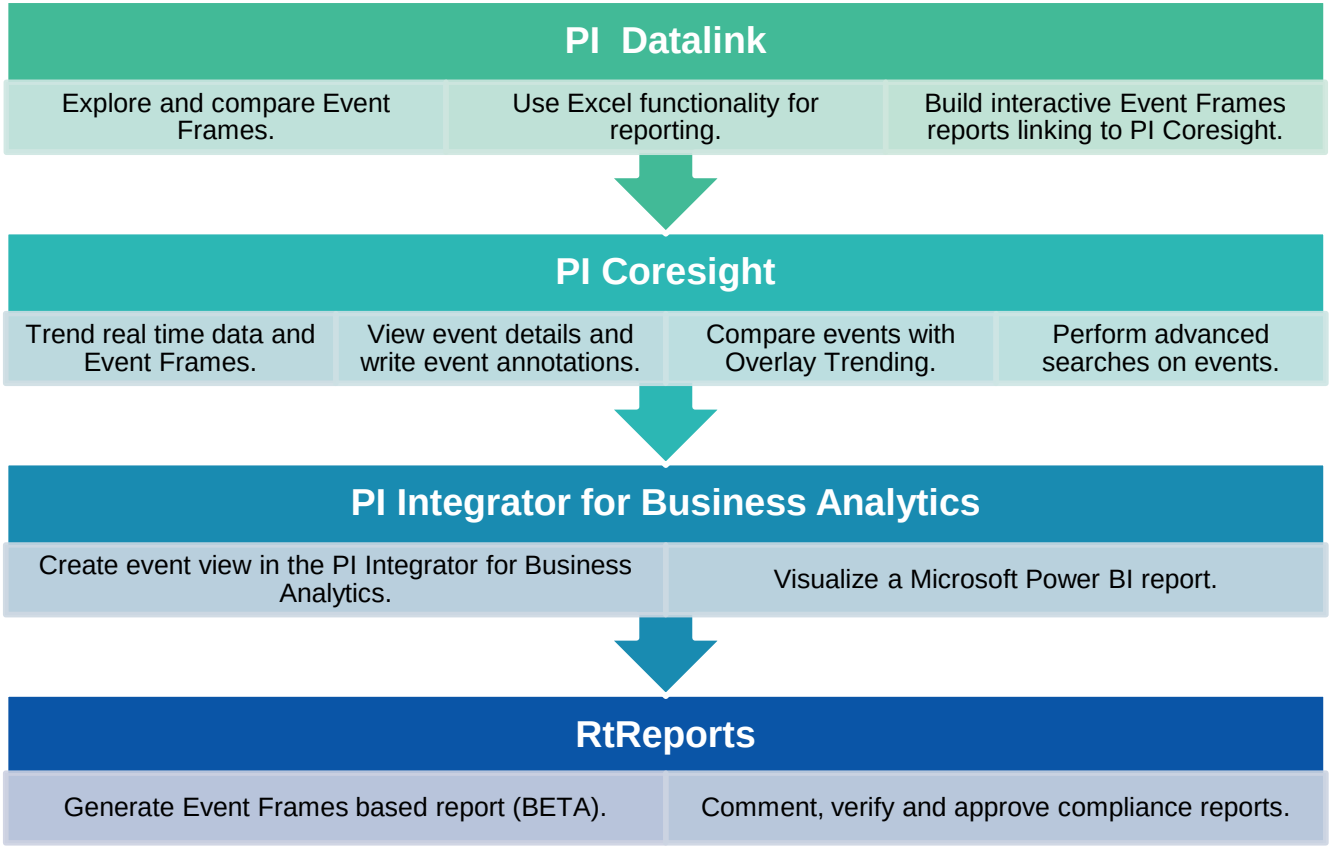
Event Frames Demo – What you're going to see



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PI Datalink and PI Coresight

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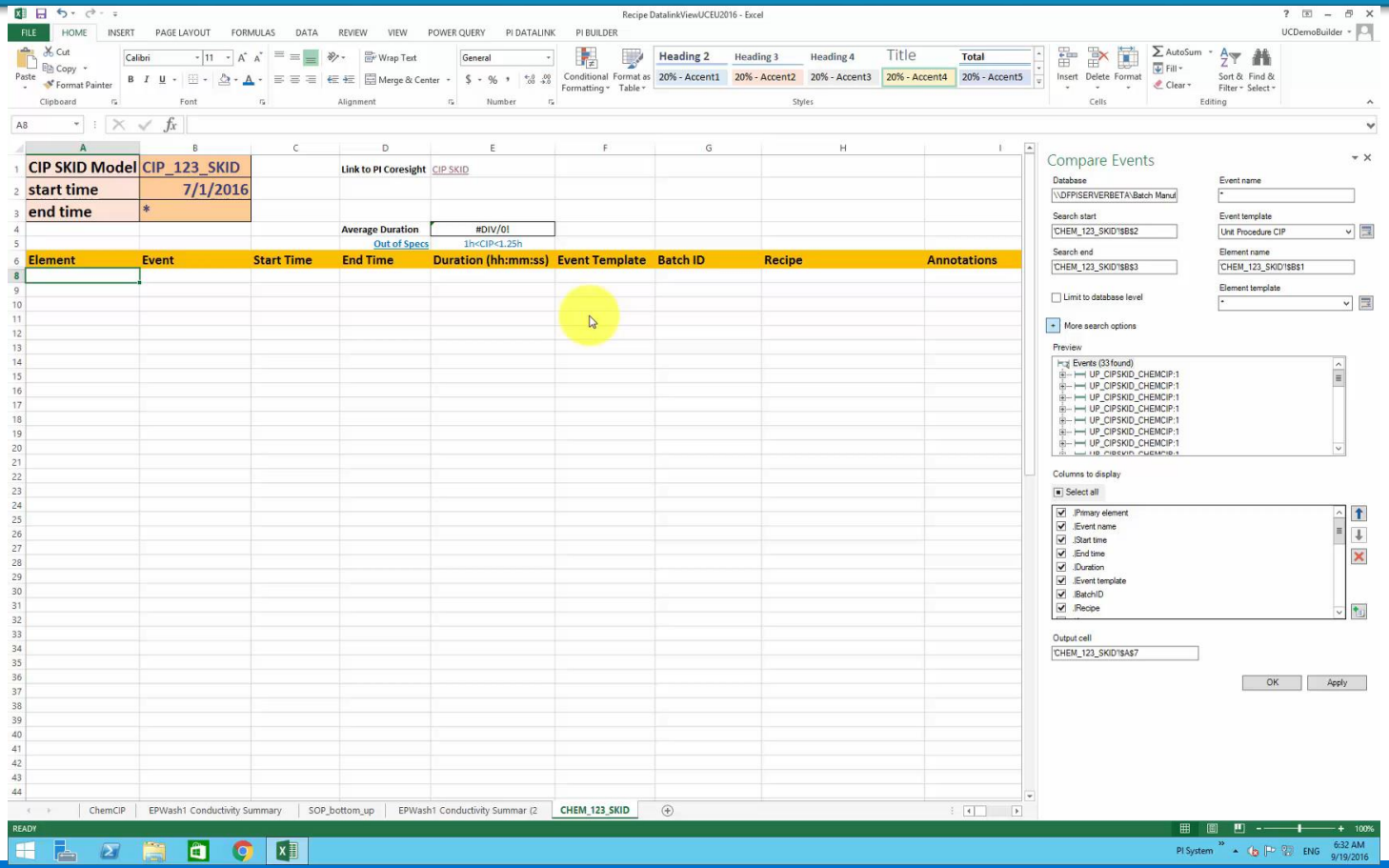
PI Datalink and PI Coresight Demo



CIP SKID Model	CIP_123_SKID		Link to PI Coresight	CIP SKID
start time	7/1/2016			
end time	*		Average Duration	#DIV/0!
			Out of Specs	1h<CIP<1.25h

Element	Event	Start Time	End Time	Duration (hh:mm:ss)	Event Template	Batch ID	Recipe	Annotations

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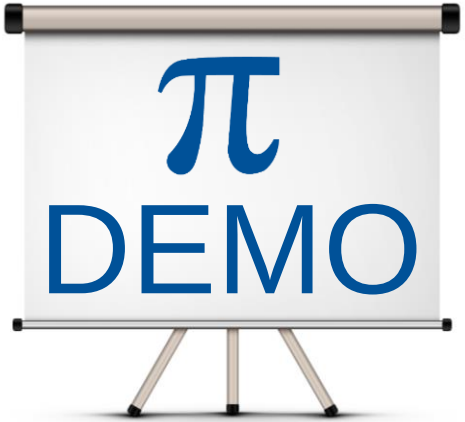

PI Integrator for Business Analytics

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PI Integrator for Business Analytics

A data bridge between PI and other systems

Your data experts can see radical new insights

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PI Integrator for BA – 4 views of applications

General Applications

- Reporting
- Descriptive Analysis
- Predictive Analysis
- Prescriptive Analysis

Process Applications

- Trouble Shooting
- Trending
- Out of Specification Investigation (OOS)
- Real-time monitoring
- End process prediction/determination
- Optimization
- Process Analytica Technology (PAT)
- Early Fault detection

Quality Applications

- Real time release testing (RTRt)
- Batch release
- CPV/OPV (Continued Process Verification)
- Annual Product and Quality Review
- Root cause analysis
- Reporting

Management / Engineering Applications

- Site to site comparison
- CAPA (Corrective Action Preventive Action)
- De Bottlenecking
- Predict Quality attributes
- Capacity
- Calibration
- Real-time control (APC)
- Golden Batch analysis
- Scale up/down
- Supply Chain Management

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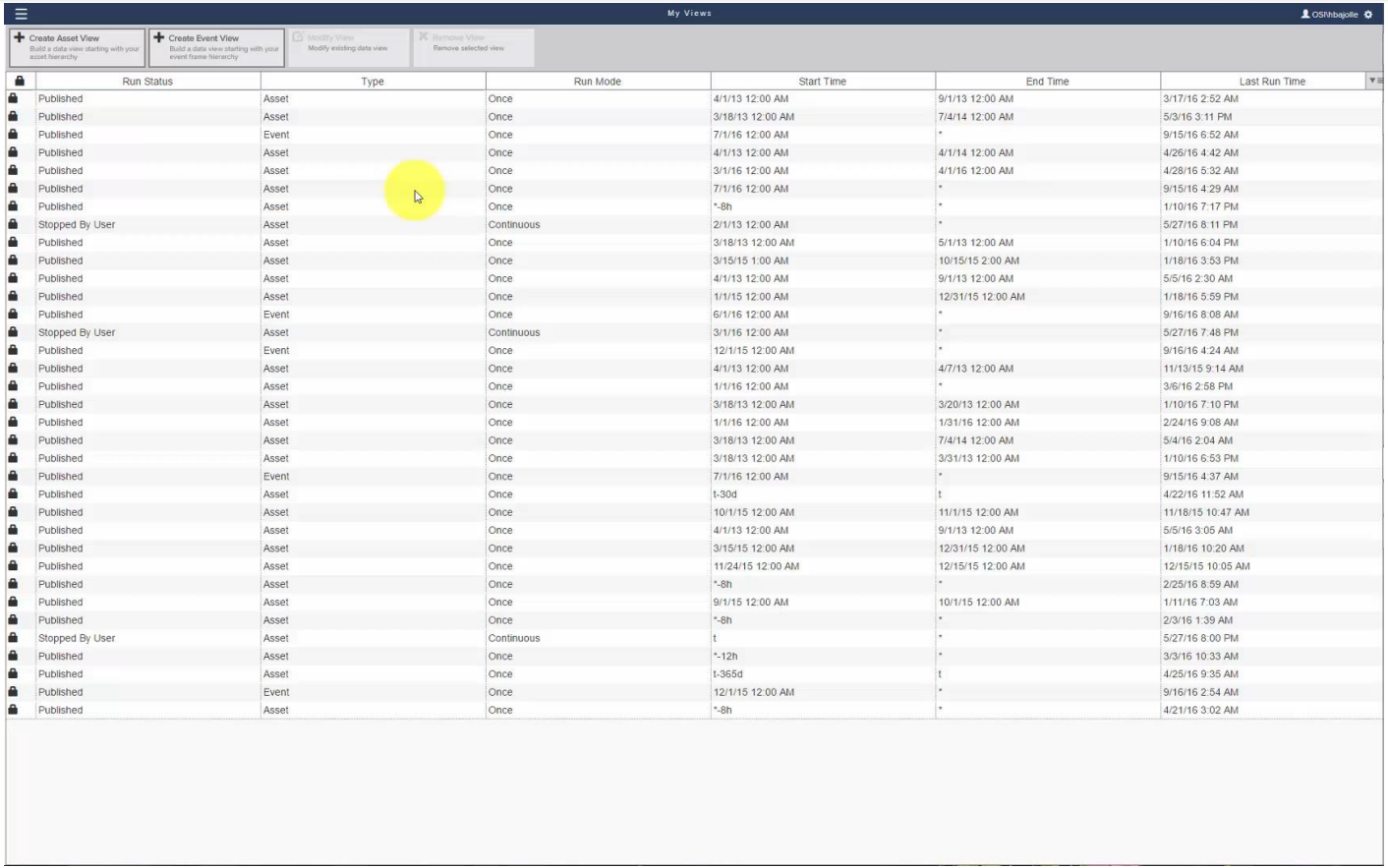
PI Integrator for Business Analytics



Run Status	Type	Run Mode	Start Time	End Time	Last Run Time
Published	Asset	Once	4/1/13 12:00 AM	9/1/13 12:00 AM	3/17/16 2:52 AM
Published	Asset	Once	3/18/13 12:00 AM	7/4/14 12:00 AM	5/3/16 3:11 PM
Published	Event	Once	7/1/16 12:00 AM	*	9/15/16 6:52 AM
Published	Asset	Once	4/1/13 12:00 AM	4/1/14 12:00 AM	4/26/16 4:42 AM
Published	Asset	Once	3/1/16 12:00 AM	4/1/16 12:00 AM	4/28/16 5:32 AM
Published	Asset	Once	7/1/16 12:00 AM	*	9/15/16 4:29 AM
Published	Asset	Once	*-8h	*	1/10/16 7:17 PM
Stopped By User	Asset	Continuous	2/1/13 12:00 AM	*	5/27/16 8:11 PM
Published	Asset	Once	3/18/13 12:00 AM	5/1/13 12:00 AM	1/10/16 6:04 PM
Published	Asset	Once	3/15/15 1:00 AM	10/15/15 2:00 AM	1/18/16 3:53 PM
Published	Asset	Once	4/1/13 12:00 AM	9/1/13 12:00 AM	5/5/16 2:30 AM
Published	Asset	Once	1/1/15 12:00 AM	12/31/15 12:00 AM	1/18/16 5:59 PM
Published	Event	Once	6/1/16 12:00 AM	*	9/16/16 8:08 AM
Stopped By User	Asset	Continuous	3/1/16 12:00 AM	*	5/27/16 7:48 PM
Published	Event	Once	12/1/15 12:00 AM	*	9/16/16 4:24 AM
Published	Asset	Once	4/1/13 12:00 AM	4/7/13 12:00 AM	11/13/15 9:14 AM
Published	Asset	Once	1/1/16 12:00 AM	*	3/6/16 2:58 PM
Published	Asset	Once	3/18/13 12:00 AM	3/20/13 12:00 AM	1/10/16 7:10 PM
Published	Asset	Once	1/1/16 12:00 AM	1/31/16 12:00 AM	2/24/16 9:08 AM
Published	Asset	Once	3/18/13 12:00 AM	7/4/14 12:00 AM	5/4/16 2:04 AM
Published	Asset	Once	3/18/13 12:00 AM	3/31/13 12:00 AM	1/10/16 6:53 PM
Published	Event	Once	7/1/16 12:00 AM	*	9/15/16 4:37 AM
Published	Asset	Once	t-30d	t	4/22/16 11:52 AM
Published	Asset	Once	10/1/15 12:00 AM	11/1/15 12:00 AM	11/18/15 10:47 AM
Published	Asset	Once	4/1/13 12:00 AM	9/1/13 12:00 AM	5/5/16 3:05 AM
Published	Asset	Once	3/15/15 12:00 AM	12/31/15 12:00 AM	1/18/16 10:20 AM
Published	Asset	Once	11/24/15 12:00 AM	12/15/15 12:00 AM	12/15/15 10:05 AM
Published	Asset	Once	*-8h	*	2/25/16 8:59 AM
Published	Asset	Once	9/1/15 12:00 AM	10/1/15 12:00 AM	1/11/16 7:03 AM
Published	Asset	Once	*-8h	*	2/3/16 1:39 AM
Stopped By User	Asset	Continuous	t	*	5/27/16 8:00 PM
Published	Asset	Once	*-12h	*	3/3/16 10:33 AM
Published	Asset	Once	t-365d	t	4/25/16 9:35 AM
Published	Event	Once	12/1/15 12:00 AM	*	9/16/16 2:54 AM
Published	Asset	Once	*-8h	*	4/21/16 3:02 AM

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RtReports

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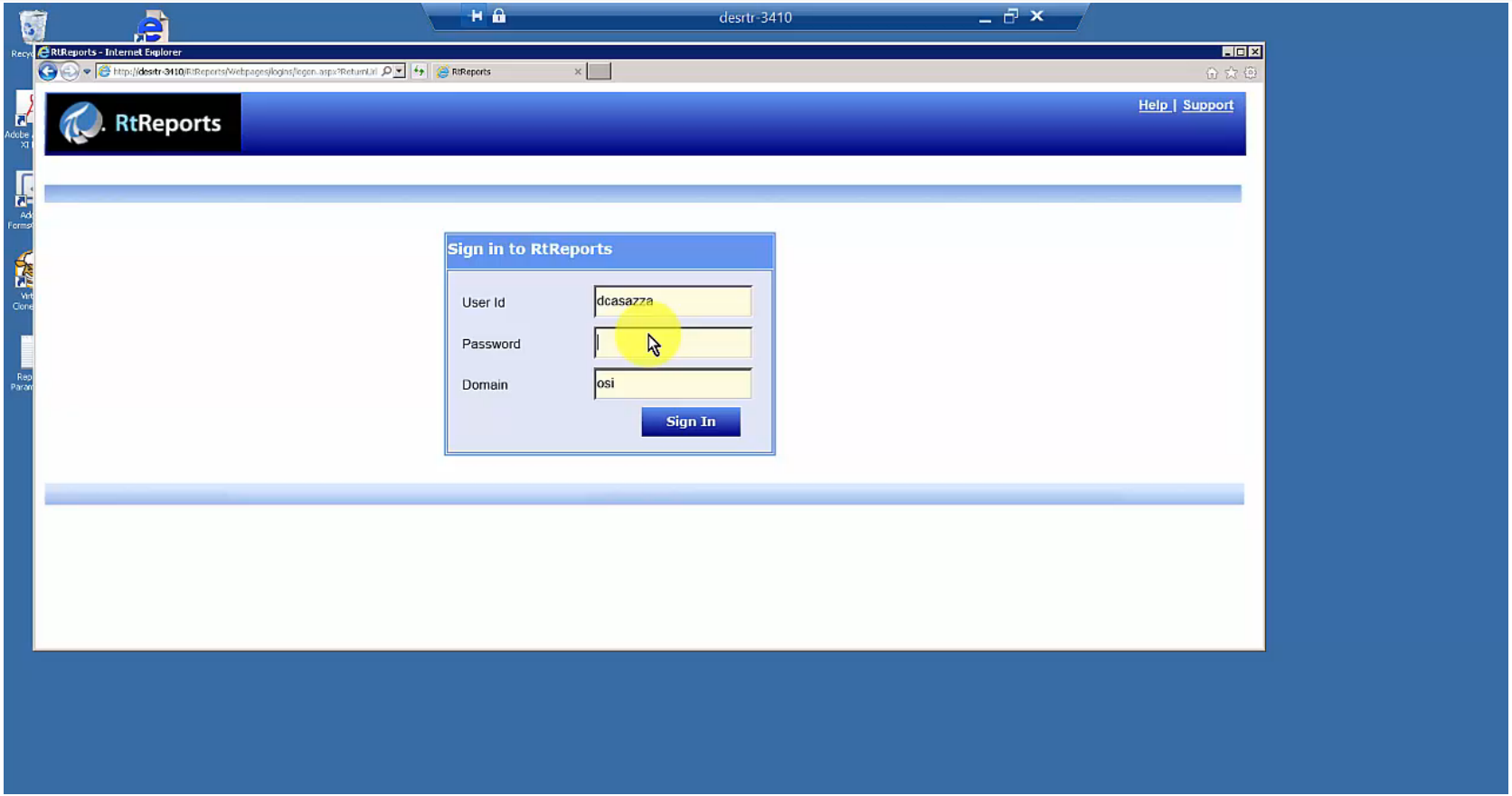
RtReports Demo



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Event Frames Demo Recap

PI DataLink

- Compare Events
- Easy Event Analysis and Reporting
- Build Flexible ad hoc reports out of the box

PI Coresight

- Automatically Discover Related Events
- Event Trending
- View Event Details
- Perform advanced searches on events
- Event Comparison (Overlay Trending)

PI Integrator for Business Analytics

- Create Event View
- Visualize a Microsoft Power BI report.

RtReports

- Generate Event Frame Report (BETA)
- Comment, Verify and Approve Compliance Reports (Esignature)

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Roadmap Update

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Event Frames Roadmap – The story until now

2013 to 2015

2013

PI Coresight

- Related events
- Hierarchical events

PI Event Frames Generator

PI System Access

- PI OLEDB Enterprise
- PI Web Services
- PI JDBC

2014

PI AF Analytics

- Events detection

PI DataLink 2014

- Events in Excel

PI AF 2014

- Audit trail viewer

PI Web API

- Initial EF support

2015

PI AF 2015

- EF value capture
- Locked EFs

PI Server 2015

- Batch to EF migration

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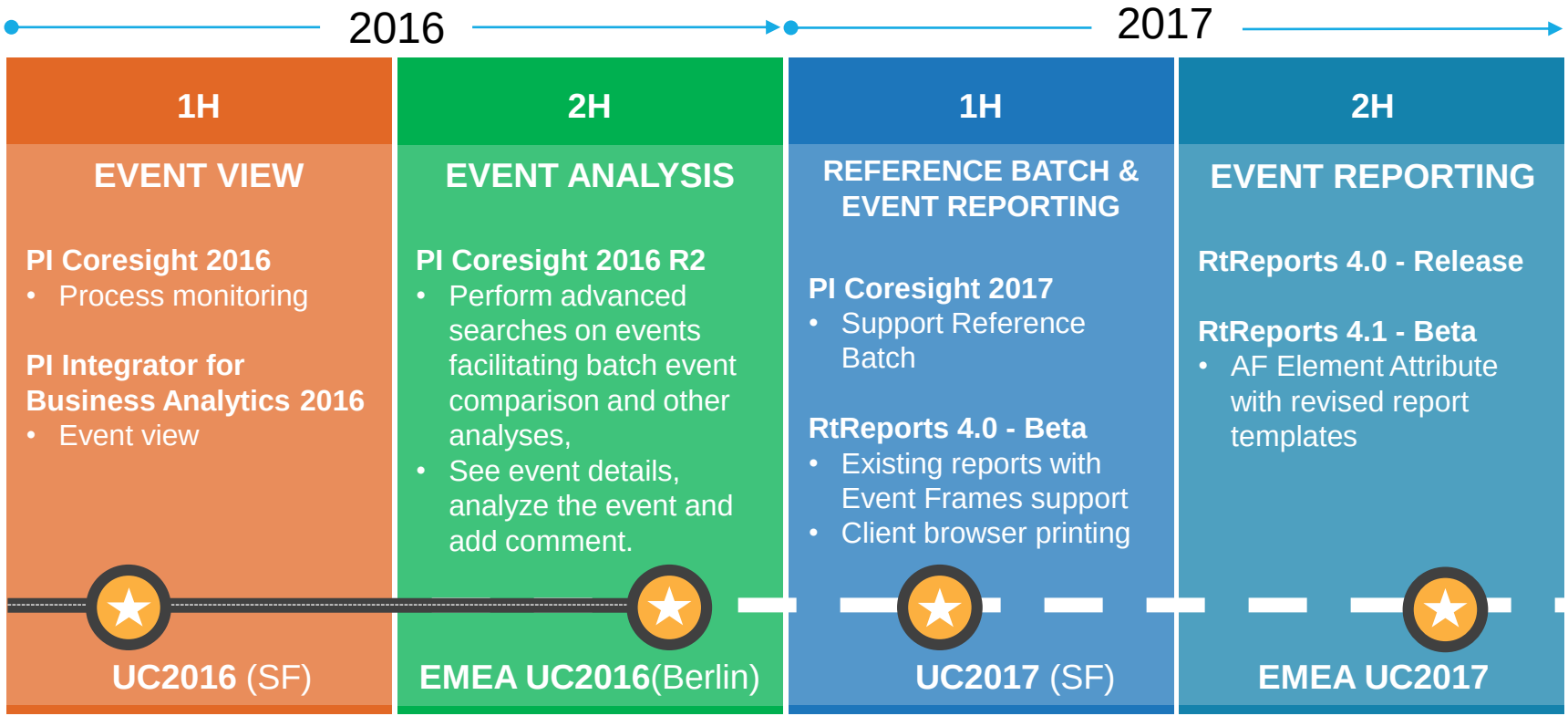
Event Frames Roadmap – The story continues



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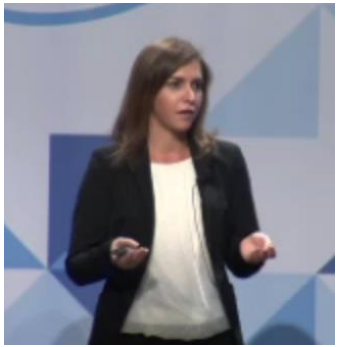

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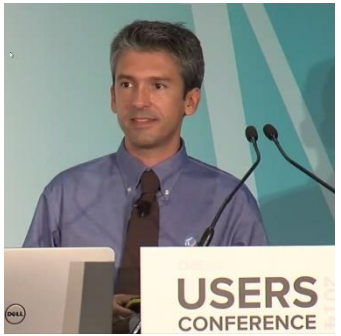

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Questions

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

State your **name & company**

Please remember to…

Complete the Online Survey for this session

http://ddut.ch/osisoft

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감사합니다

谢谢

Danke

Gracias

Merci

Thank You

ありがとう

Спасибо

Obrigado

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