

Presented by

Brandon Perry OSIsoft

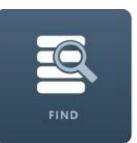
Experience



COLLECT HISTORIZE FIND ANALYZE DELIVER







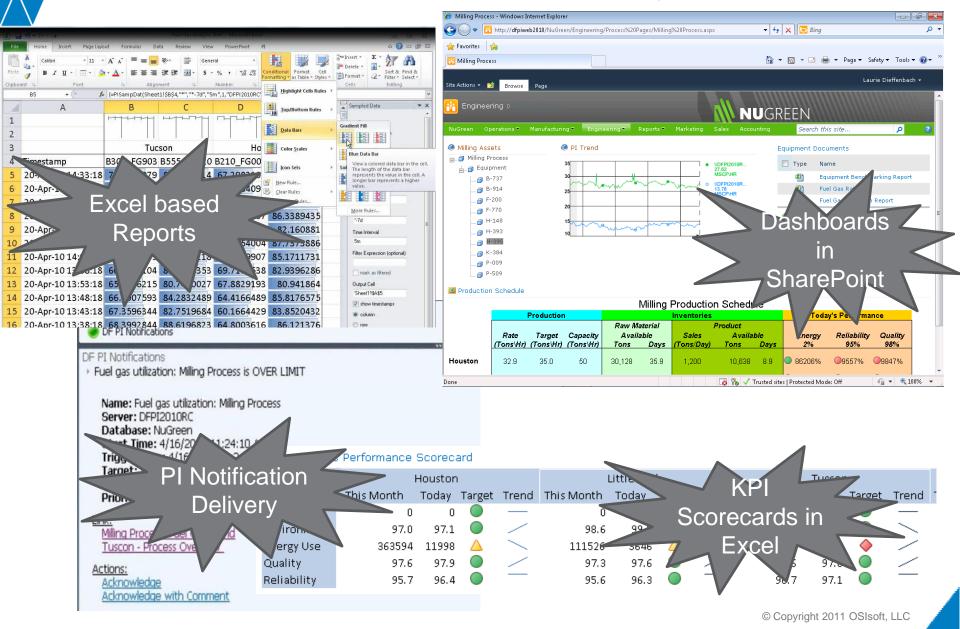




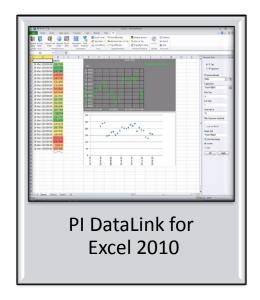


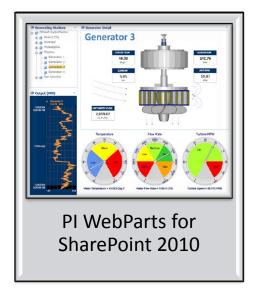
VISUALIZE

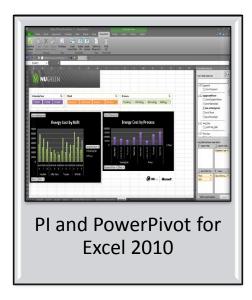
What's New with Visualization in PI System 2010?

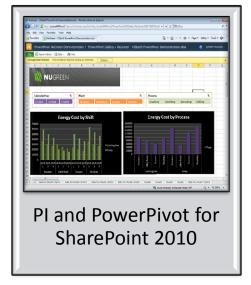


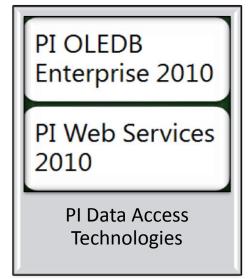
Visualization for PI System 2010

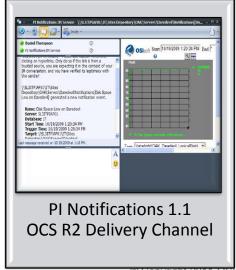








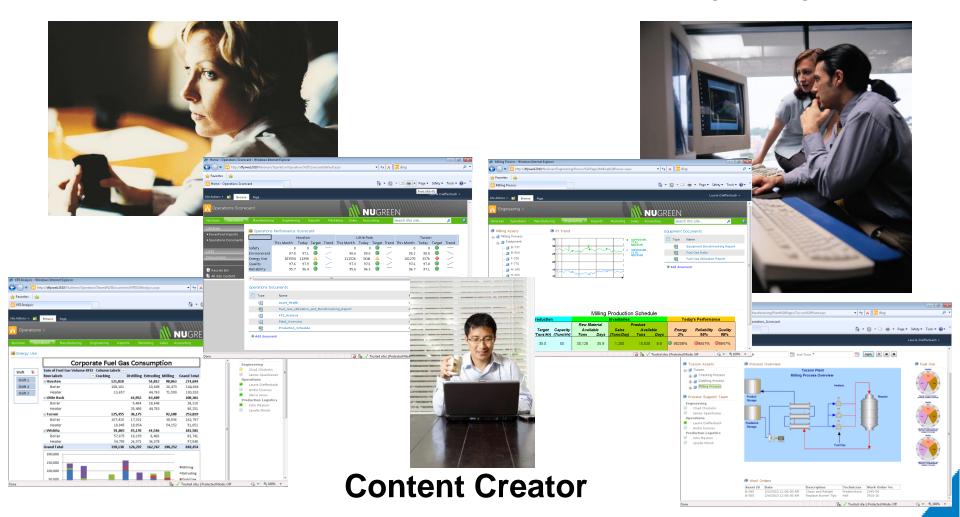




Role-based Dashboarding

Management

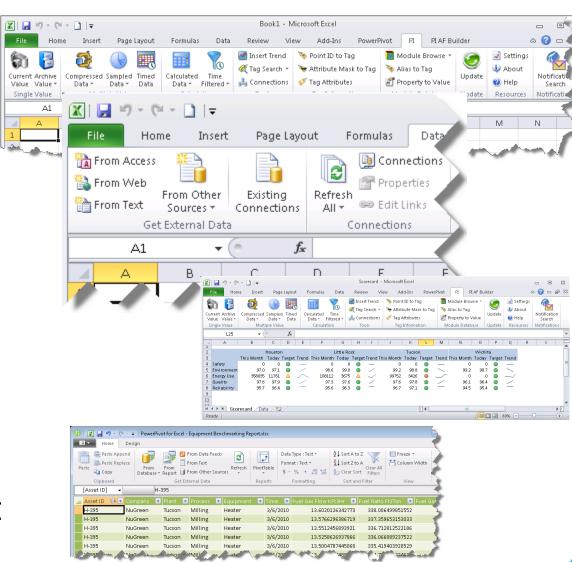
 Knowledge Worker Engineering Staff



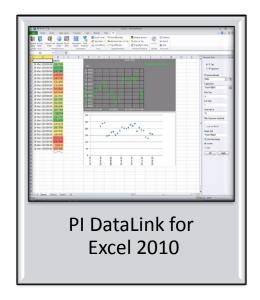
Content Creator Roles

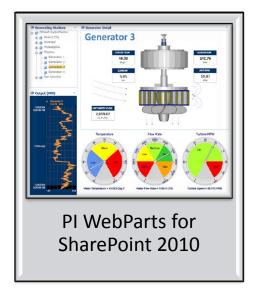
 Use different data sources

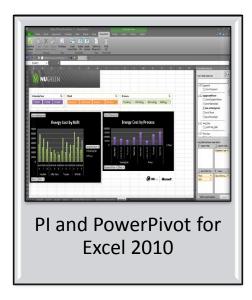
- Create scorecards
- Create multidimensional reports
- Publish to SharePoint

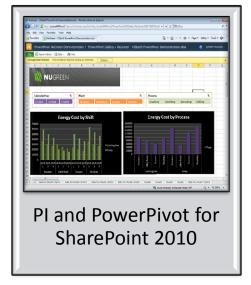


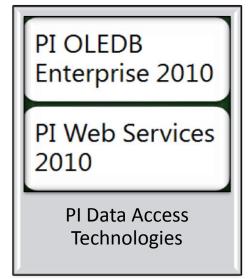
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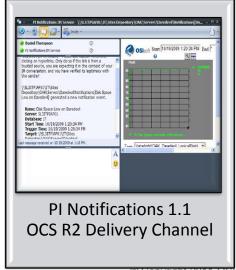




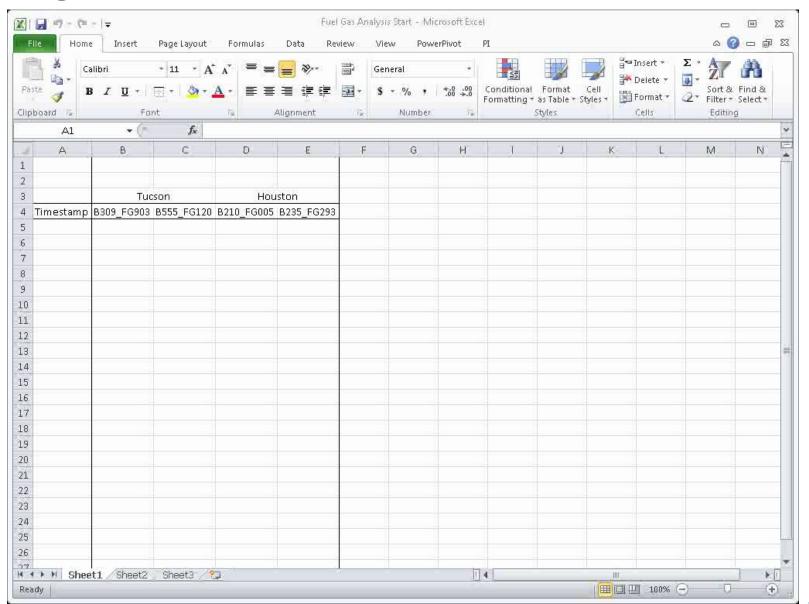




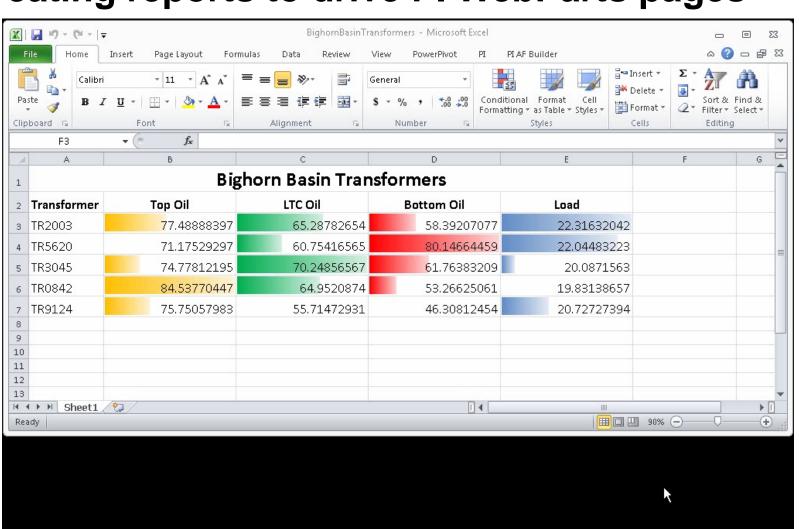




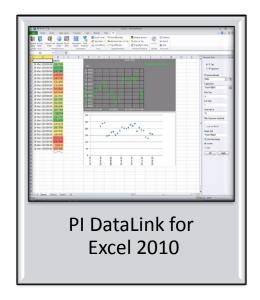
Using Excel 2010 features with PI DataLink

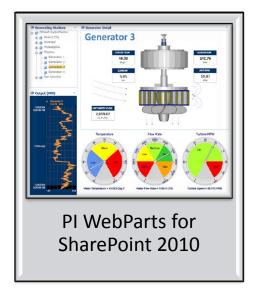


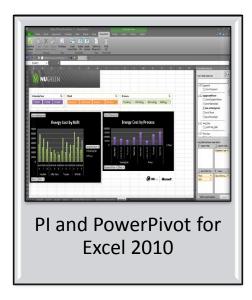
Creating reports to drive PI WebParts pages

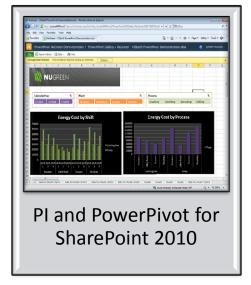


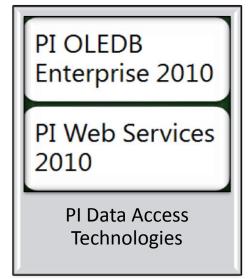
Visualization for PI System 2010

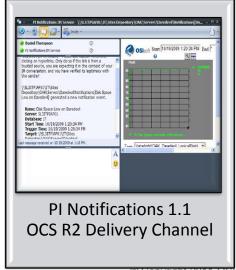




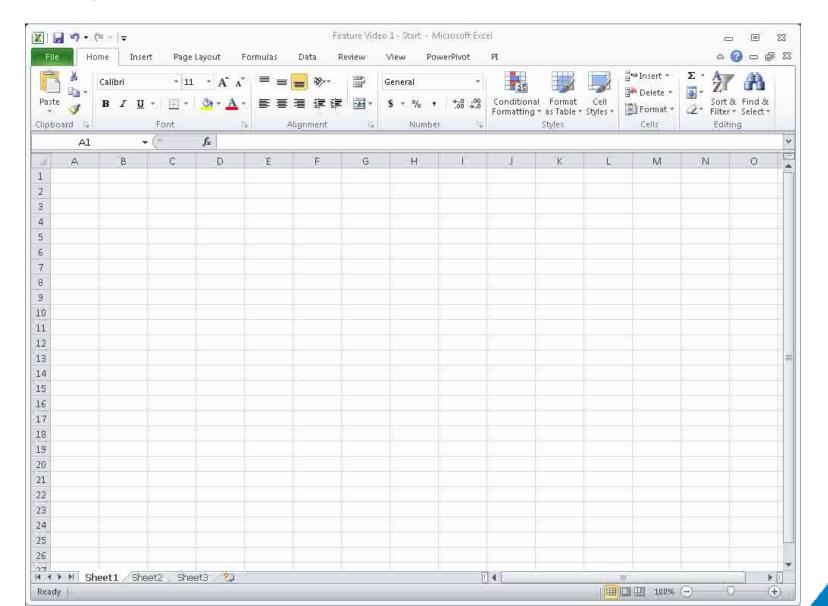




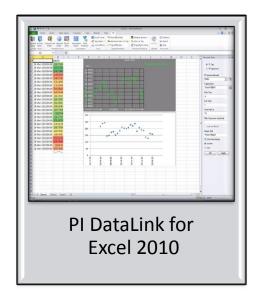


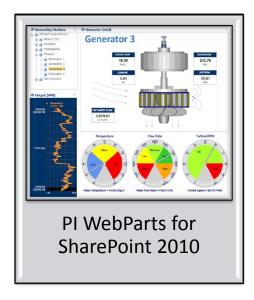


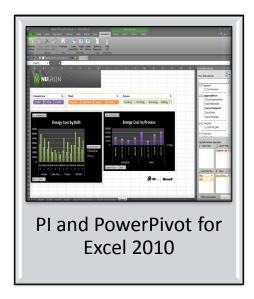
Building Multi-dimensional Reports

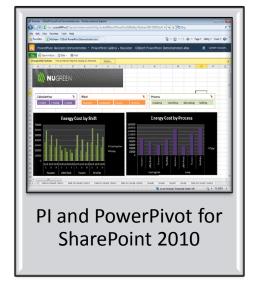


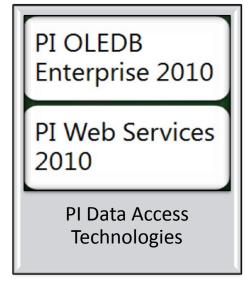
Visualization for PI System 2010

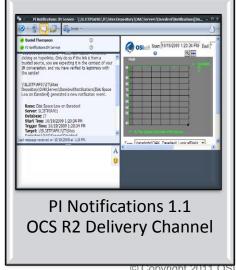




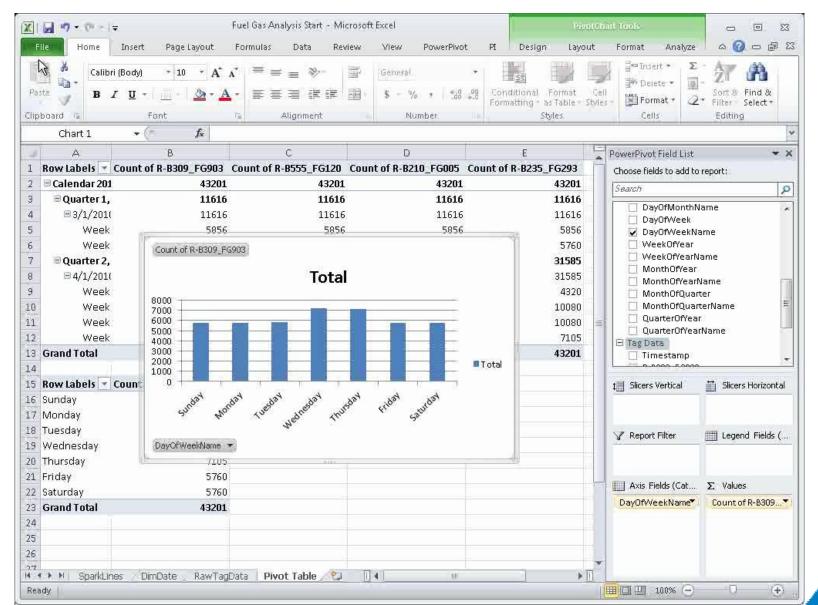








Publishing to SharePoint

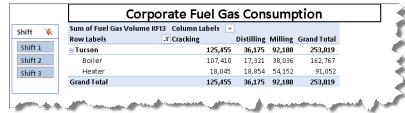


Management Roles

Easy navigation to needed information



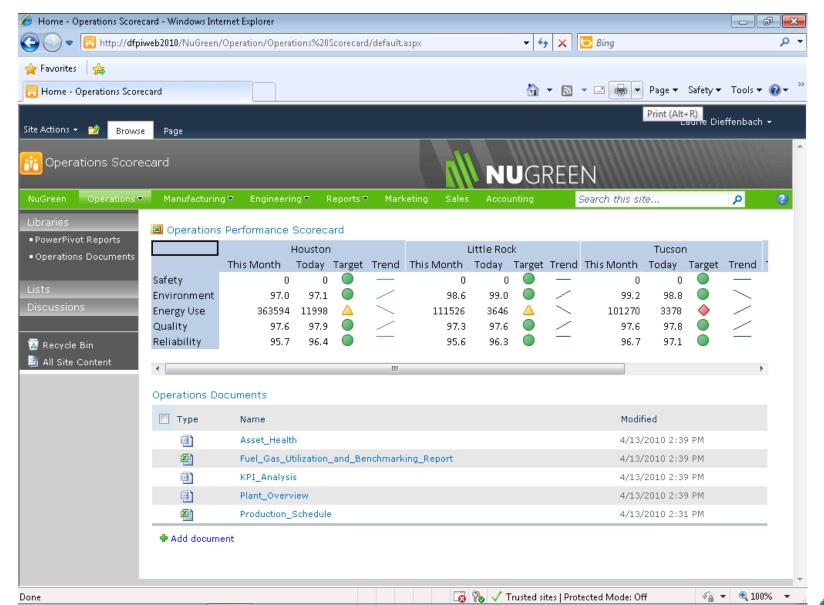
Content is already built, but can interact with it to focus on an issue



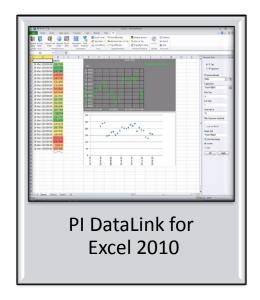
Easy access to assistance from experts

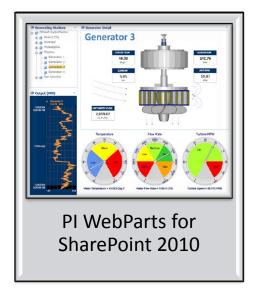


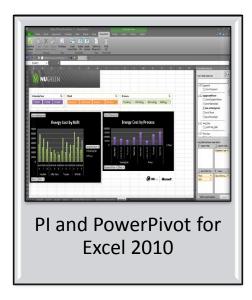
Scorecards in SharePoint using Excel Services

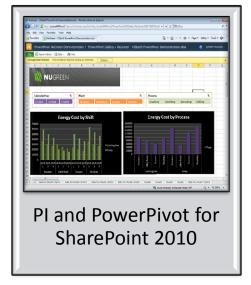


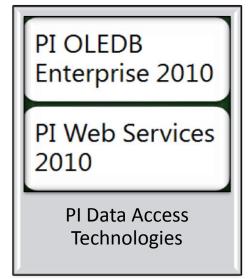
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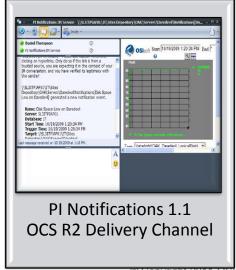




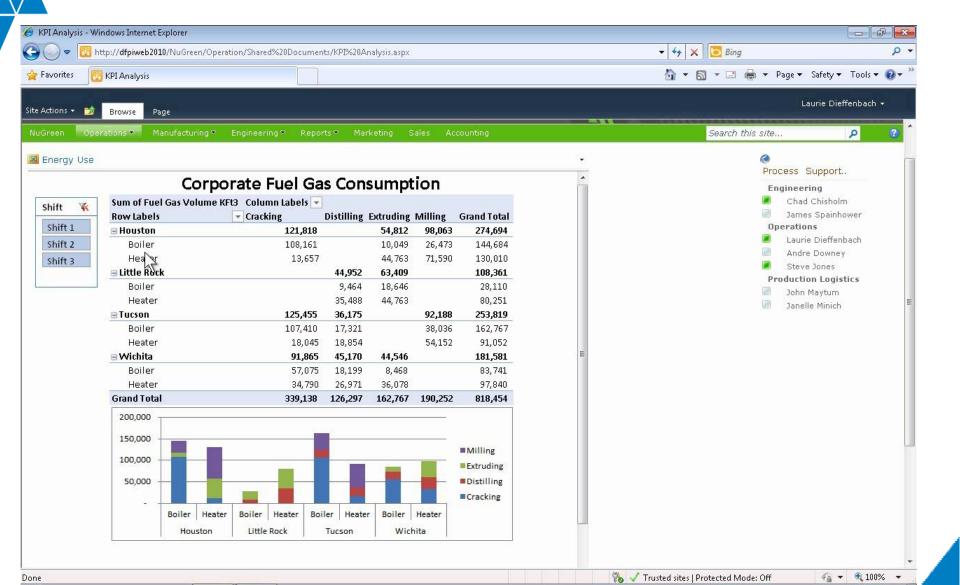




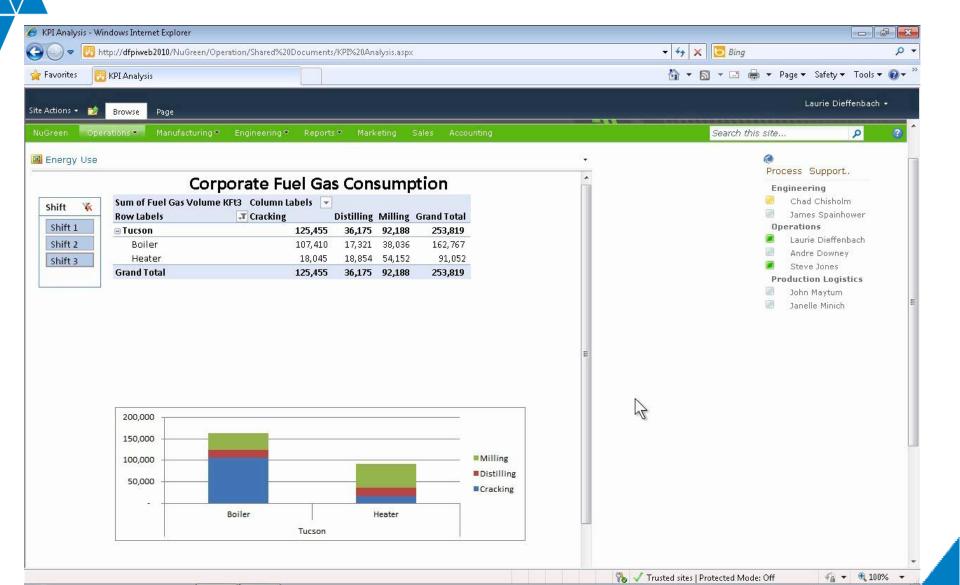




Using Reports in SharePoint



Built-in Collaboration

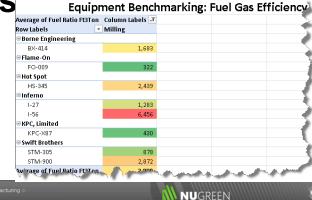


Knowledge Worker Roles

Access to all needed tools

Contribute material for use by others

Act to resolve problems and prevent recurrence

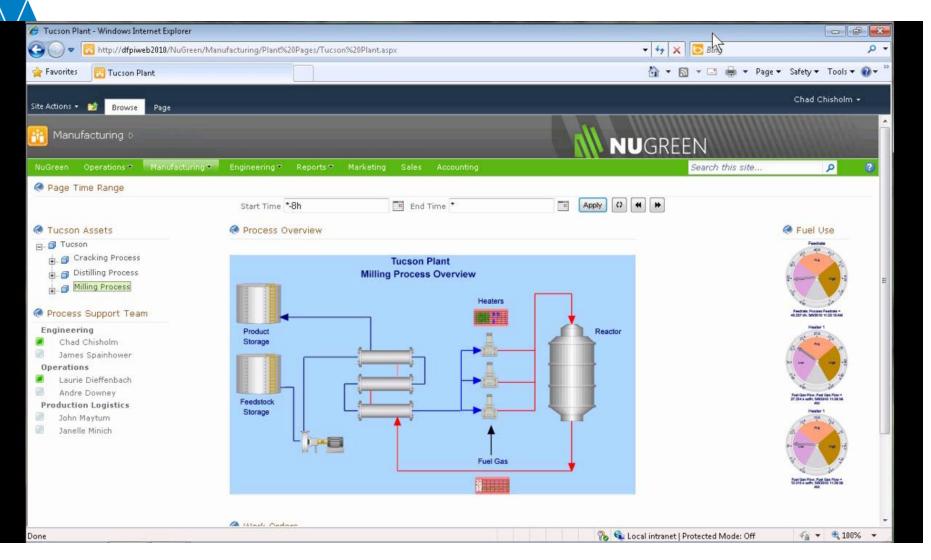




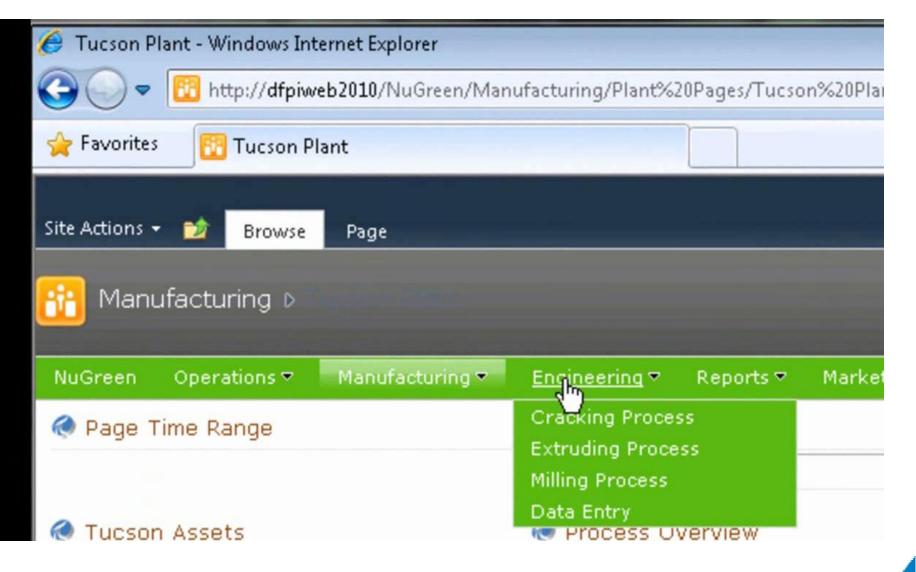
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Please en	ter the effective	date for cha	anges:		
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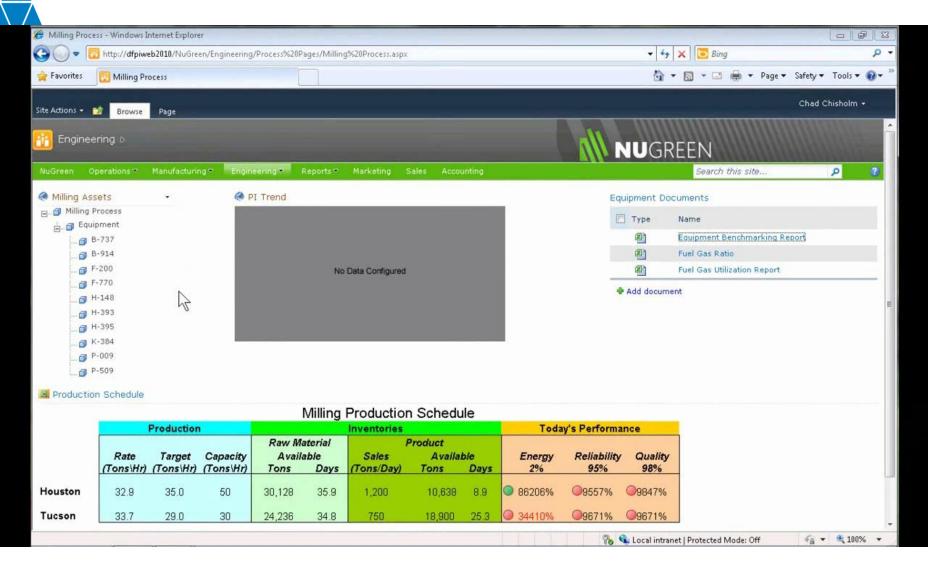
Appropriate Detail Available



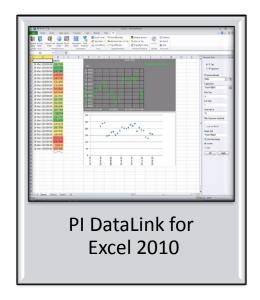
Navigate to Appropriate Information

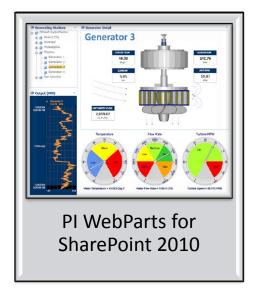


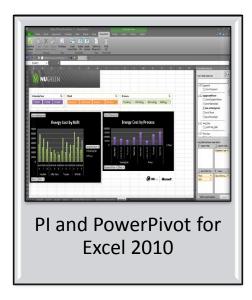
View Data as Needed

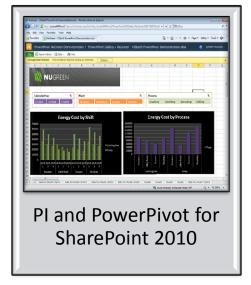


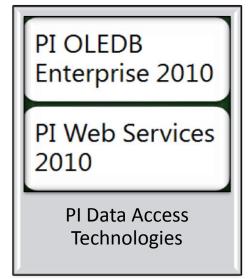
Visualization for PI System 2010

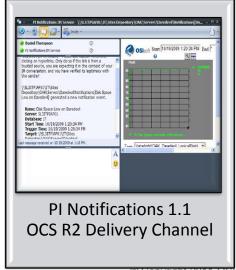




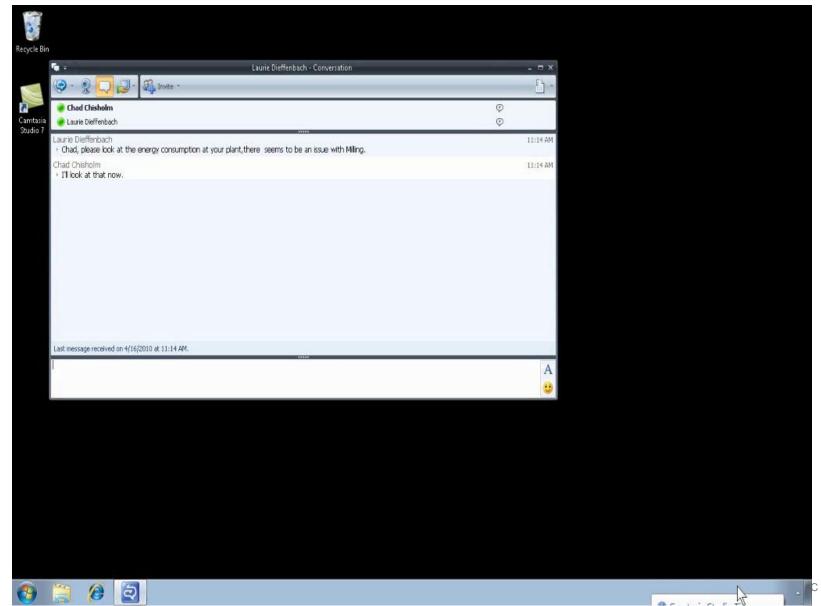








Respond to Events



Take Action

Notification Limit Change

Use this form to change notification limit values.

Please enter the effective date for changes:

Target Date: 5/6/2010 11:33:08 AM

Please select the appropriate unit:

Heater:

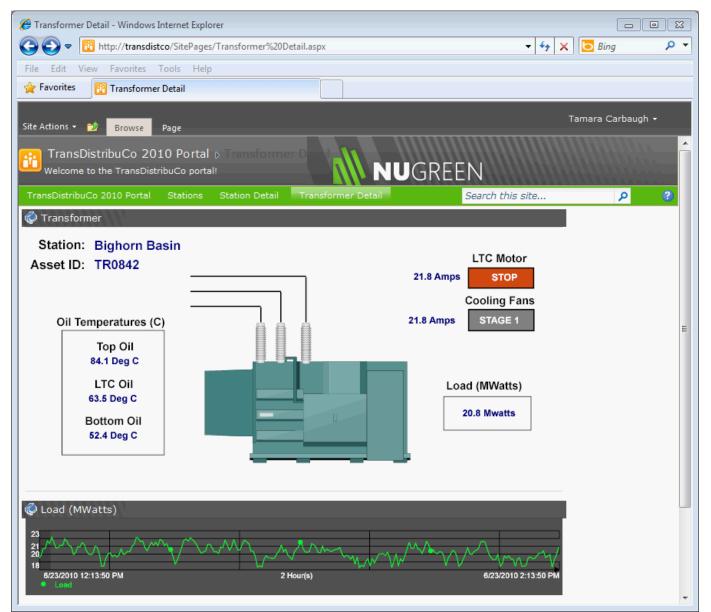
Heater 395: FG Limit Heater 393: FG Limit Heater 148: FG Limit

Please enter a new value Notification trigger limit:

Trigger Limit:

Change setpoint

Get to relevent content



PI WebParts 2010



Legacy maintenance software

- Functional
- Maintenance staff is trained on it
- Company has made a large investment in it and has created a web front end for it



Excel Reports



 Reports that engineers and managers rely on

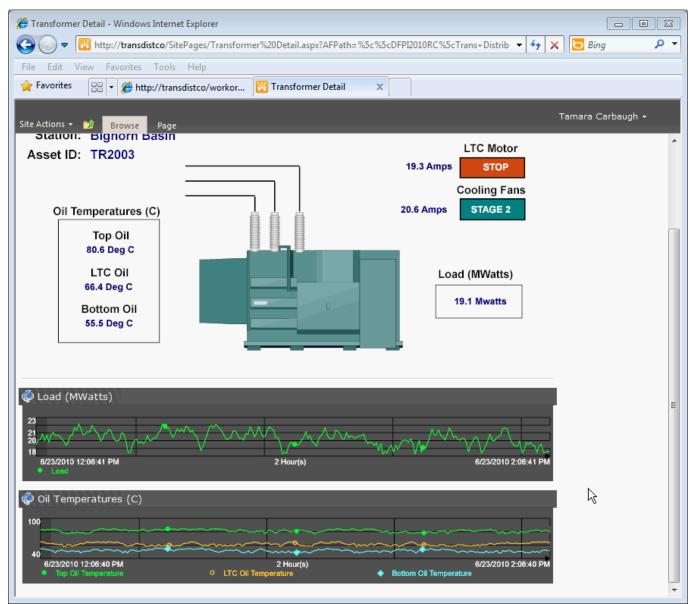


Manuals, Safety, Maps

- Key data that is stored online
 - Safety
 - Equipment manuals
 - Weather
 - Maps

Integrate PI System with existing investments

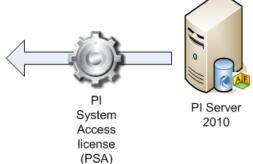
Integrating Existing Apps with PI WebParts



PI WebParts 2010

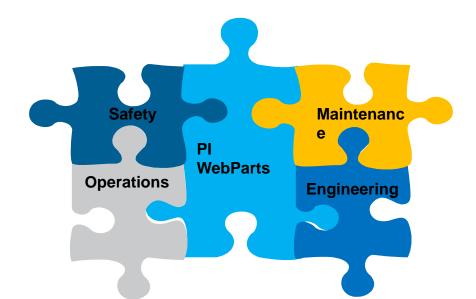
Pairs with Microsoft Office 2010 components

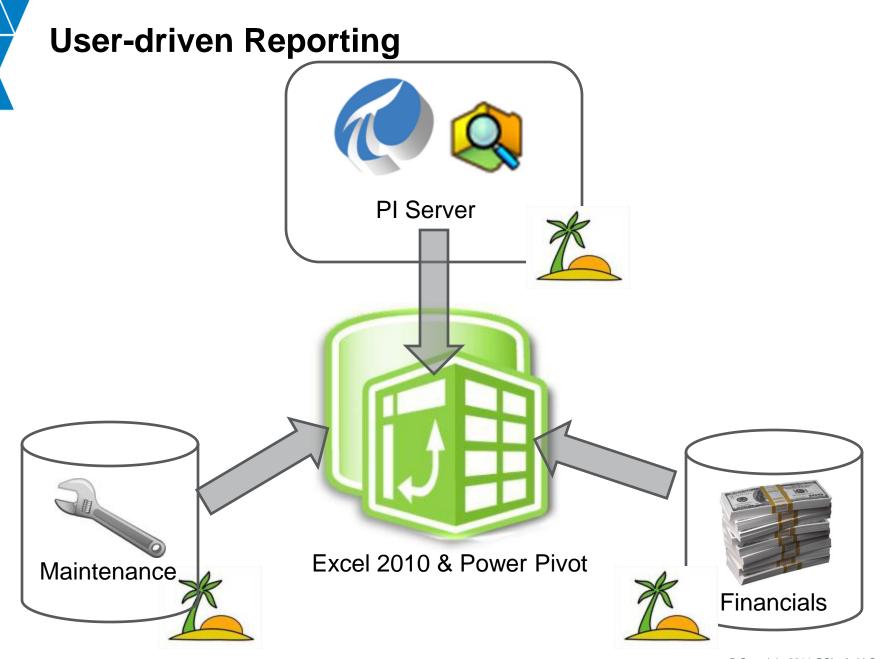




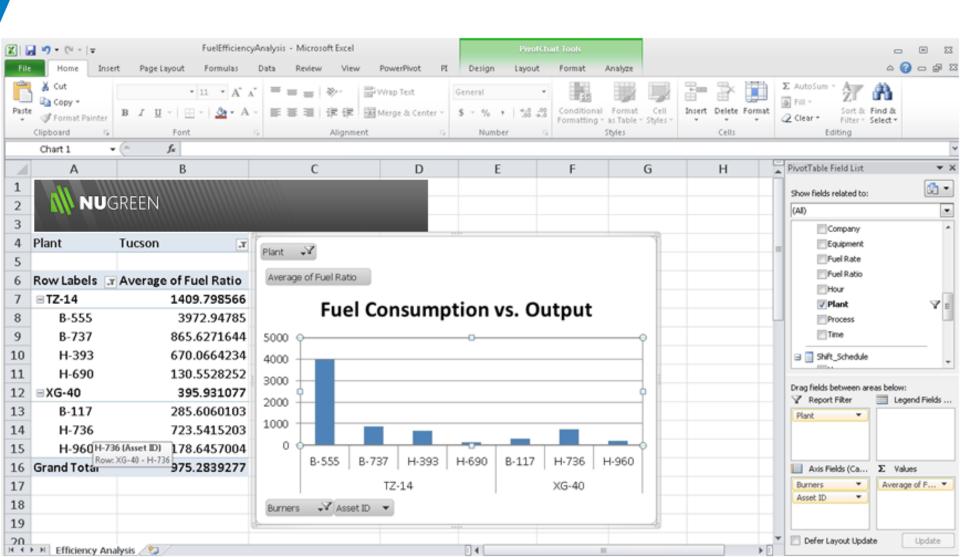
Value of PI WebParts 2010

- Aligns with
 - PI for Office 2010 (2007 still supported)
 - PI Server 2010
- Easy configuration, no code configuration
- Leverage existing applications
- Fewer pages to maintain



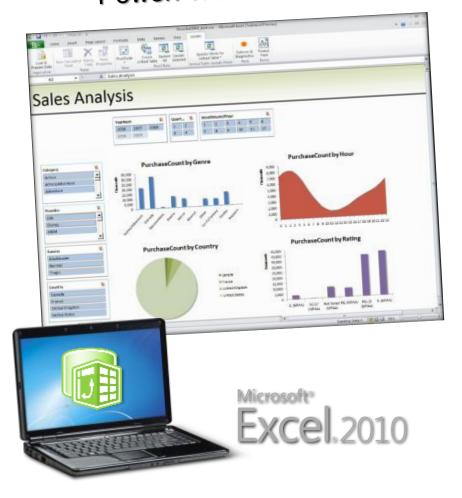


PI DataLink + Excel 2010 + PowerPivot



Managed Self Service BI

PowerPivot for Excel



PowerPivot for SharePoint



BI for Manufacturing

30 Day Corporate Fuel Gas Consumption

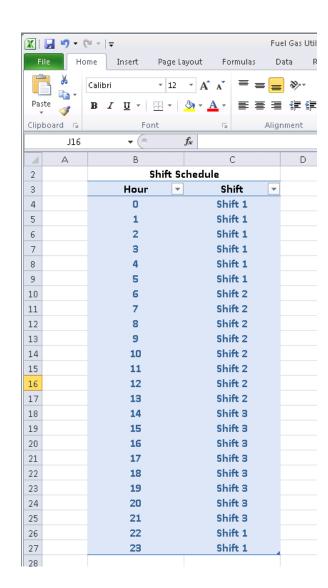
	Shift 🌾	Sum of Fuel Gas Vo	lume Column Lab 🔻]				
		Row Labels	Cracking	Distilling	Extruding	Milling	Grand Total	
ral	Shift 1	■Houston	121,929		54,828	98,453	275,210	
Fuel	Shift 2 Shift 3	Boiler	108,315		10,023	26,842	145,180	
Man	Stilles	Heater	13,614		44,804	71,611	130,029	g
■Fla		□ Little Rock		45,024	63,146		108,169	322
Bo		Boiler		9,559	18,341		27,900	
- BU		Heater		35,465	44,804		80,269	
		■Tucson	126,003	36,492		92,282	254,777	1,684
⊟Но		Boiler	107,830	17,662		38,106	163,598	2,422
		Heater	18,173	18,829		54,176	91,178	•
		■ Wichita	91,736	45,233	44,704		181,673	
■ Sw		Boiler	56,933	18,295	8,628		83,856	873
		Heater	34,803	26,938	36,076		97,817	2,902
ВKР		Grand Total	339,668	126,748	162,677	190,735	819,829	•
		Sum of Fuel Gas Volume KFt3						440
■Inf		150,000					Process ▼	1,271
		100,000					■ Milling	
		50,000					— ■Extruding	6,393
Gran		Boiler	Heater Boiler H	Heater Boiler	Heater	Boiler Heate	■ Distilling	2,000
		Houst	'		Tucson	Wichita	■ Cracking	
		Plant ▼ Equipment ▼	on Little Roc	.к	i ucsori	vvicnita	I	
		Flant + Equipment +						

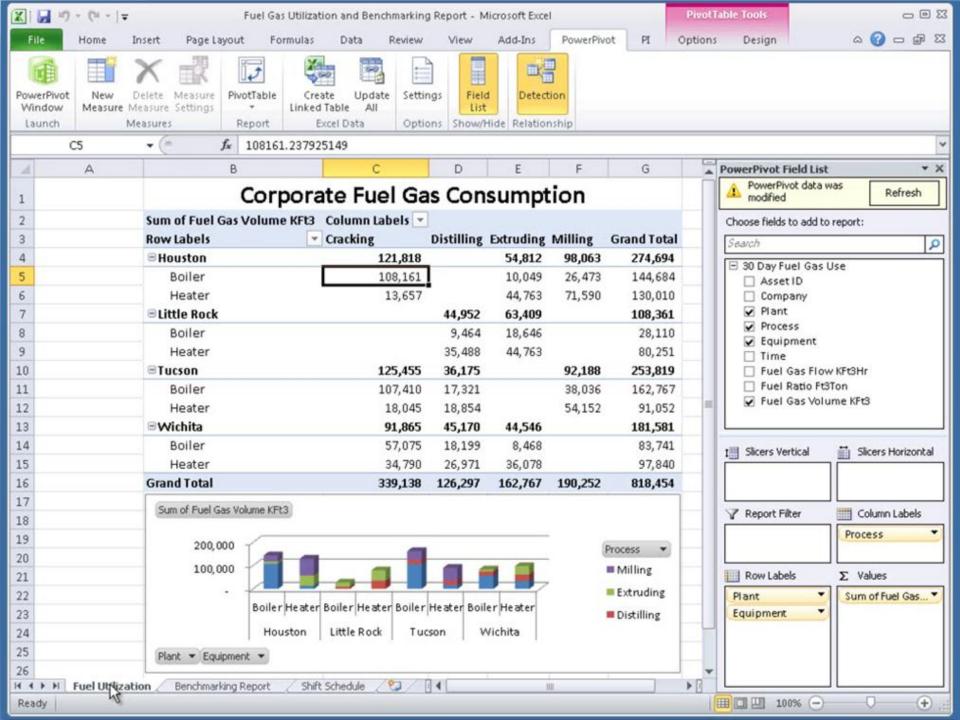
Slicing Data by Shifts

- Link in an Excel Table containing shift schedule
- Use DAX¹ to add an "Hour" column to the "Fuel Use" table;

=HOUR([Time])

- Create a Relationship between the "Hour" columns in each table.
- 1. Data Analysis Expression Language







Keeping Insights Up to Date



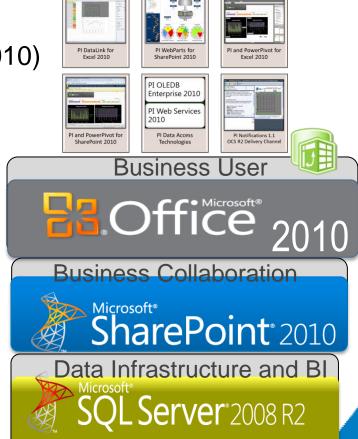
Refreshing Data in SharePoint 2010

SharePoint can refresh the data from the specified data sources over the Web, in the cloud, from internal databases, PI System 2010, Excel files, and any other location with network connectivity.

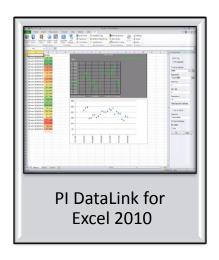
Self-service BI Toolkit for the PI System

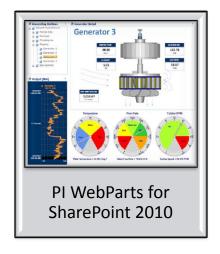
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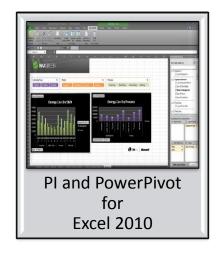
- Dimensions and Facts
 - PI Asset Framework (PI Server 2010)
- Datasets for BI Data Extraction
 - PI OLEDB Enterprise 2010 (PI for Office 2010)
- Desktop Analysis and Cube Configuration
 - Microsoft PowerPivot for Excel 2010
- Enterprise Accountability
 - Microsoft PowerPivot for SharePoint 2010
 - Microsoft SharePoint 2010
 - Microsoft SQL Server 2008 R2

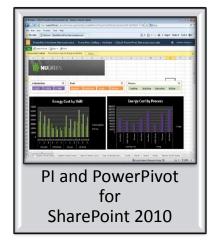


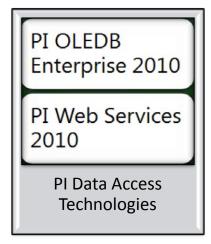
PI for Office 2010 Visualization for PI System 2010

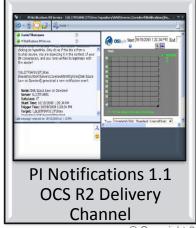


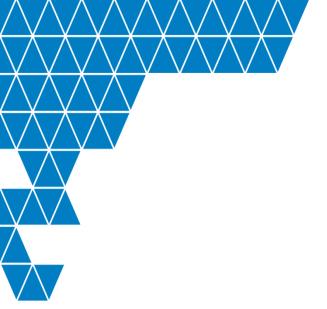












Thank you