

Presented by

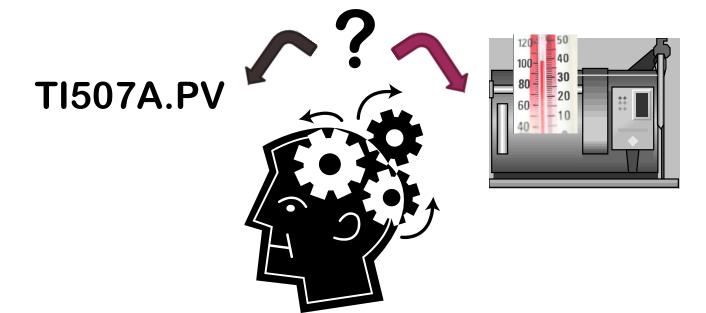
Chris Coen Product Manager OSIsoft, LLC So I've had my PI System for a few years and I'm thinking about upgrading to PI System 2010 – maybe I could find data faster and be ready to solve problems if my system were a little better organized



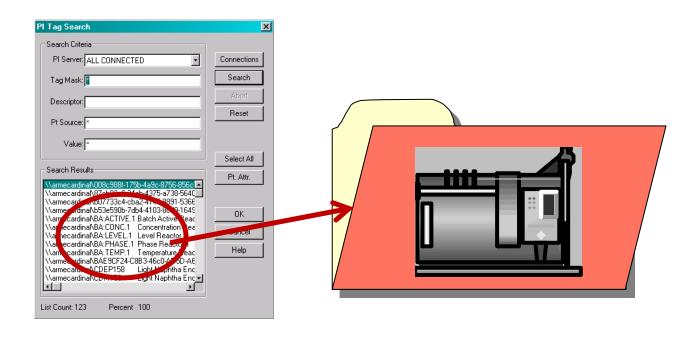
Getting

Organized

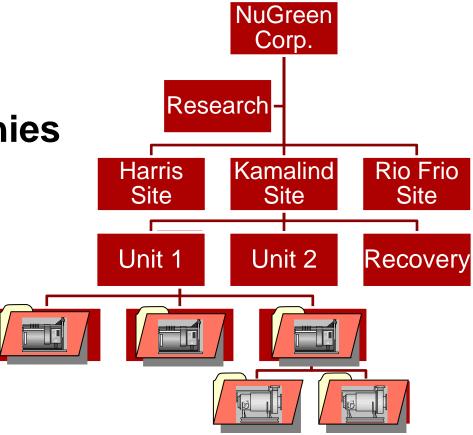
A PI System that Thinks More Like You Do...



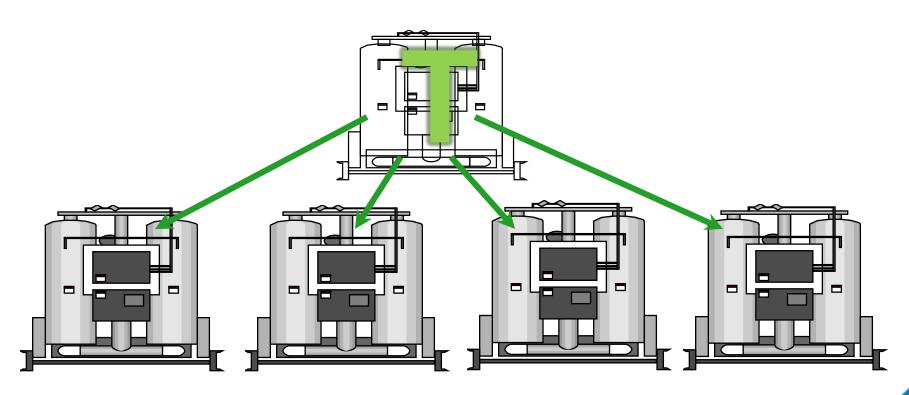
1. Sort Your Tags into Elements Which Represent Your Equipment



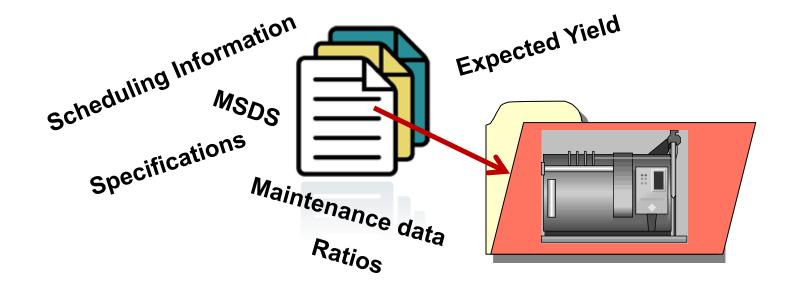
2. Organize the Assets (Elements) into Hierarchies



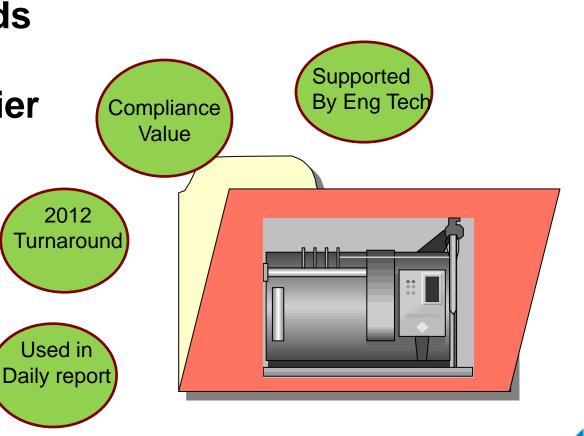
3. Manage and Extend Elements by Creating Powerful Templates



4. Add Efficiency Calculations, KPIs, Reference Data from Relational Databases and Other Information to Add More Value



5. Add Key Words (Categories) to Make Them Easier to Search for



It Might Take a Team

Process "nerds" – subject matter experts - who understand the data well enough to build the calculations and define the relationships



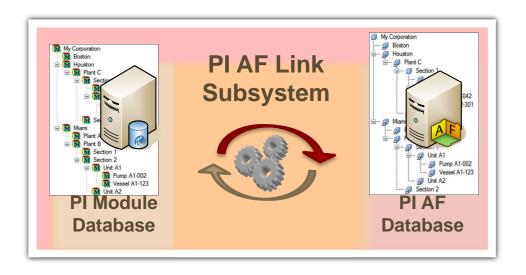




IT "geeks" who can wrangle the XML and SQL, to build large databases

Where Do I find My Assets?

If you have a good PI Module Database, use our PI Server 2010 with PI AF Link



Demo 1

Your old PI Module Database is now your new PI AF element hierarchy with PI Server 2010 and PI AF Link.



Where Do I Find My Assets?

If you have DeltaV, use the DeltaV asset connector

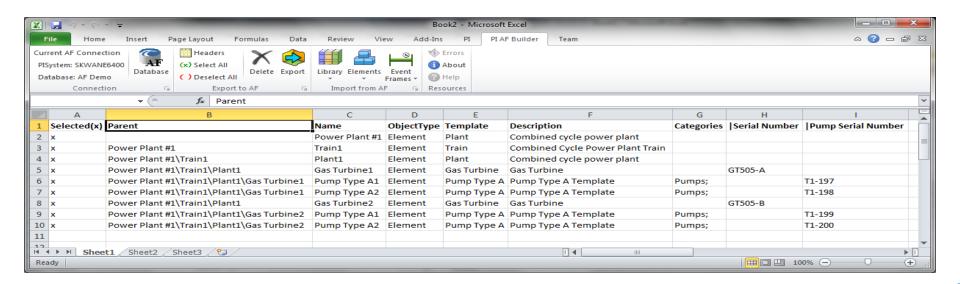


Where Do I Find My Assets?

Otherwise find your assets in your maintenance, engineering/ instrumentation, or accounting databases and **import them** into PI AF with the PI AF Builder for Microsoft Excel.

Demo 2

Organizing your PI Tag database in PI AF with the PI AF Builder for Microsoft Excel.



But I have tens of thousands of tags – how will PI AF save me time when it will require me to

organize thousands or tens of thousands of assets – all configured with calculations and structure?



One Step at a Time

Don't feel like you have to have a comprehensive database to get value! Use PI AF like a spreadsheet and support the analysis of specific problems. But don't start fresh with each problem, expand your asset model with every use.

And get started!

What About New Pl System Installations?

It Starts with Data Streams

Description	UnitsString	Units	Measurement	Asset(s)	
PM1 VERTIFORMER DNDRAW	FPM	ft/min	Down Draw	Paper Mill 1	Vertiformer
PM1 VERTIFORMER DRAW SETPOINT	FPM	ft/min	Draw Setpoint	Paper Mill 1	Vertiformer
PM1 VERTIFORMER KVAL DISPLAY	FPM	ft/min	Kval Display	Paper Mill 1	Vertiformer
PM1 VERTIFORMER KVAL SETPOINT	STATE		Kval Setpoint	Paper Mill 1	Vertiformer
PM1 VERTIFORMER LOAD FEEDBACK	PERCENT	%	Load Feedback	Paper Mill 1	Vertiformer
PM1 1ST PRESS DNDRAW	FPM	ft/min	Down Draw	Paper Mill 1	1st Press
PM1 1ST PRESS LOAD FEEDBACK	PERCENT	%	Load Feedback	Paper Mill 1	1st Press
	PM1 VERTIFORMER DNDRAW PM1 VERTIFORMER DRAW SETPOINT PM1 VERTIFORMER KVAL DISPLAY PM1 VERTIFORMER KVAL SETPOINT PM1 VERTIFORMER LOAD FEEDBACK PM1 1ST PRESS DNDRAW	PM1 VERTIFORMER DNDRAW PM1 VERTIFORMER DRAW SETPOINT PM1 VERTIFORMER KVAL DISPLAY PM1 VERTIFORMER KVAL SETPOINT STATE PM1 VERTIFORMER LOAD FEEDBACK PERCENT PM1 1ST PRESS DNDRAW FPM	PM1 VERTIFORMER DNDRAW PM1 VERTIFORMER DRAW SETPOINT PM1 VERTIFORMER KVAL DISPLAY FPM ft/min FPM ft/min FPM ft/min FM1 VERTIFORMER KVAL SETPOINT STATE PM1 VERTIFORMER LOAD FEEDBACK FPM ft/min FPM ft/min	PM1 VERTIFORMER DNDRAW FPM ft/min Down Draw PM1 VERTIFORMER DRAW SETPOINT FPM ft/min Draw Setpoint FPM ft/min Kval Display FPM VERTIFORMER KVAL DISPLAY FPM STATE Kval Setpoint PM1 VERTIFORMER LOAD FEEDBACK PERCENT FPM ft/min Down Draw	PM1 VERTIFORMER DNDRAW FPM ft/min Down Draw Paper Mill 1 PM1 VERTIFORMER DRAW SETPOINT FPM ft/min Draw Setpoint Paper Mill 1 PM1 VERTIFORMER KVAL DISPLAY FPM ft/min Kval Display Paper Mill 1 PM1 VERTIFORMER KVAL SETPOINT STATE Kval Setpoint Paper Mill 1 PM1 VERTIFORMER LOAD FEEDBACK PERCENT % Load Feedback Paper Mill 1 PM1 1ST PRESS DNDRAW FPM ft/min Down Draw Paper Mill 1

The Classic PI System Installation





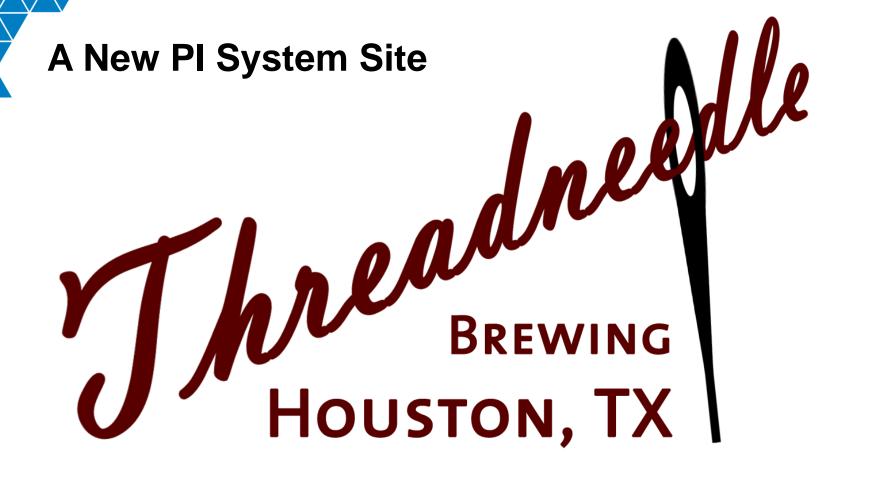
A New Opportunity



Scope

- The New PI System Site
- From Data Stream List to Assets
- From Assets to PI Tags
- Immediate Payout





Threadneedle Brewing

7				
FT2	Fermentation Tank 2	Timer	FT2\Timer	
FT2	Fermentation Tank 2	Level	FT2\LI502	
FT2	Malti-Hoppe	Temperature	ash ² Tun	
FT2	Fermentation Tank 2	Active	FT2\RotAct	
FT2	Fermentation Tank 2	Drain Valve	FT2\DrnVlv	
FT3	Fel	Timer		
FT3	Fel	Level	31	
FT3	Fe	Temperature		
FT3	Fe Service Ser	Active	一 一 一 一	
FT3	Fe	Drain Valve		
FT4	Fe	Timer		
FT4	Fe Population	Level		
FT4	Fei	Temperature	FT4\TI504	
FT4	Fermentation Tank 4	Active	FT4\RotAct	
FT4	Fermentation Tank 4	Drain Valve	FT4\DrnVlv	
FT5	Fermentation Tank 5	Timer	FT5\Timer	
FT5	Fermentation Tank 5	Level	FT5\LI505	
FT5	Fermentation Tank 5	Temperature	FT5\TI505	
FT5	Fermentation Tank 5	Active	FT5\RotAct	
FT5	Fermentation Tank 5	Drain Valve	FT5\DrnVlv	
FT6	Fermentation Tank 6	Timer	FT6\Timer	

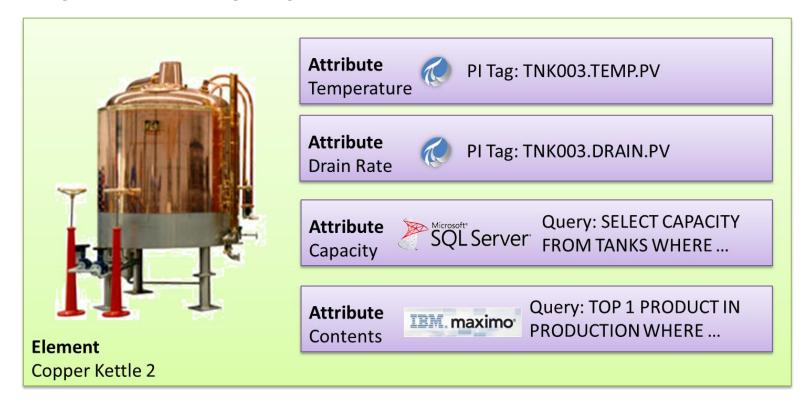
Boiling Kettle



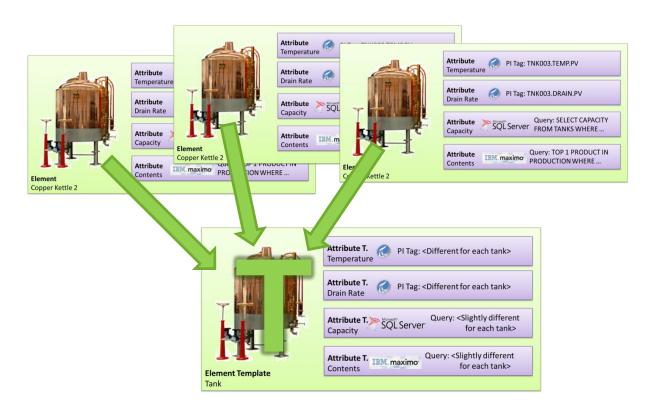
Fermenter



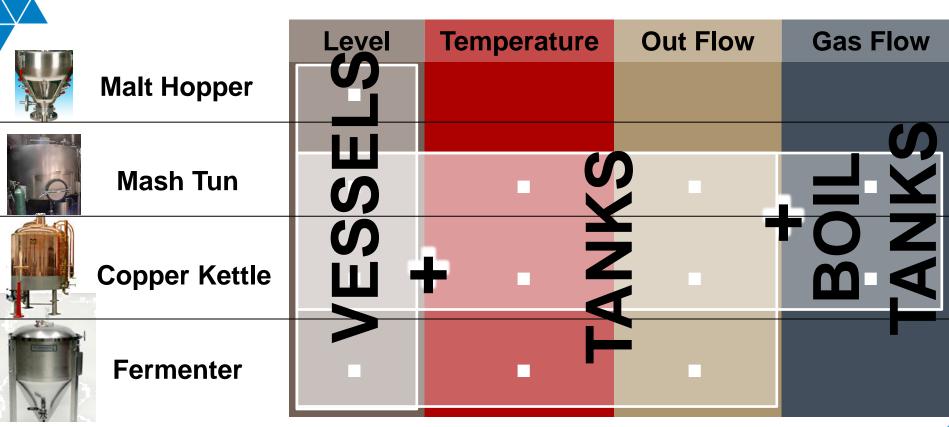
The PI AF Element



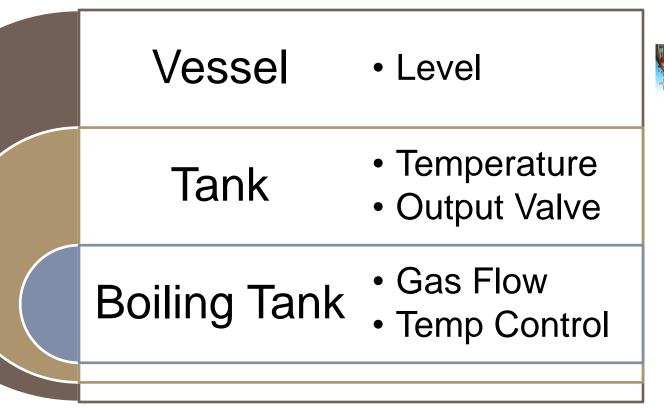
Templatizing These New Elements



Assets @ Threadneedle



Conjuring a Template Hierarchy

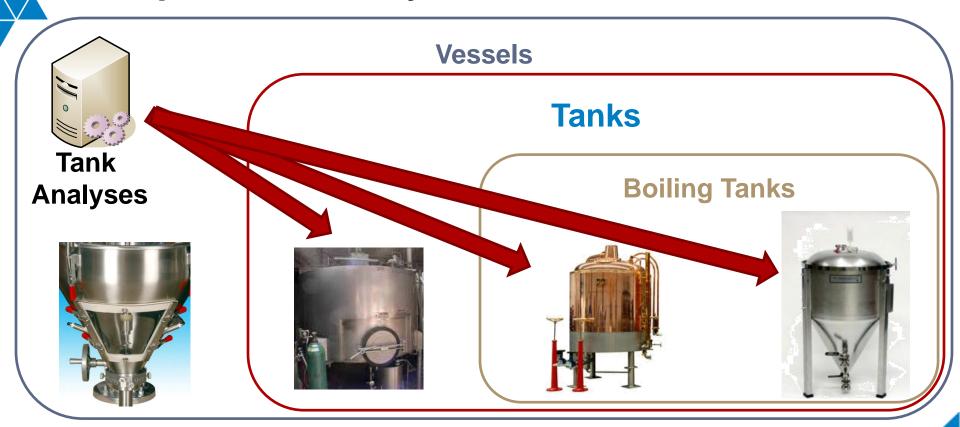








Template Hierarchy In Use



Next Steps

- Upgrade to PI System 2010 to reap the benefits
- Migrate your existing PI System
- Build your PI System in an asset centric manner
- Use templates for your assets

Further Resources

Product Education Session

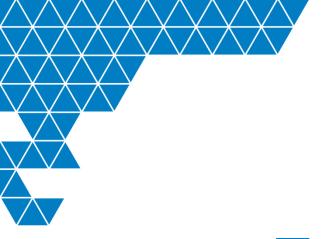
Training Course

Webinars

Tech Support

vCampus

Center of Excellence



Thank you