The Visualization Revolution

Presented by René Thomassen and Tom LeBay

Agenda

- What's New- PI Coresight 2015
- Getting Value- San Francisco Public Utilities Commission
- What's Ahead- Visualization for the modern PI System

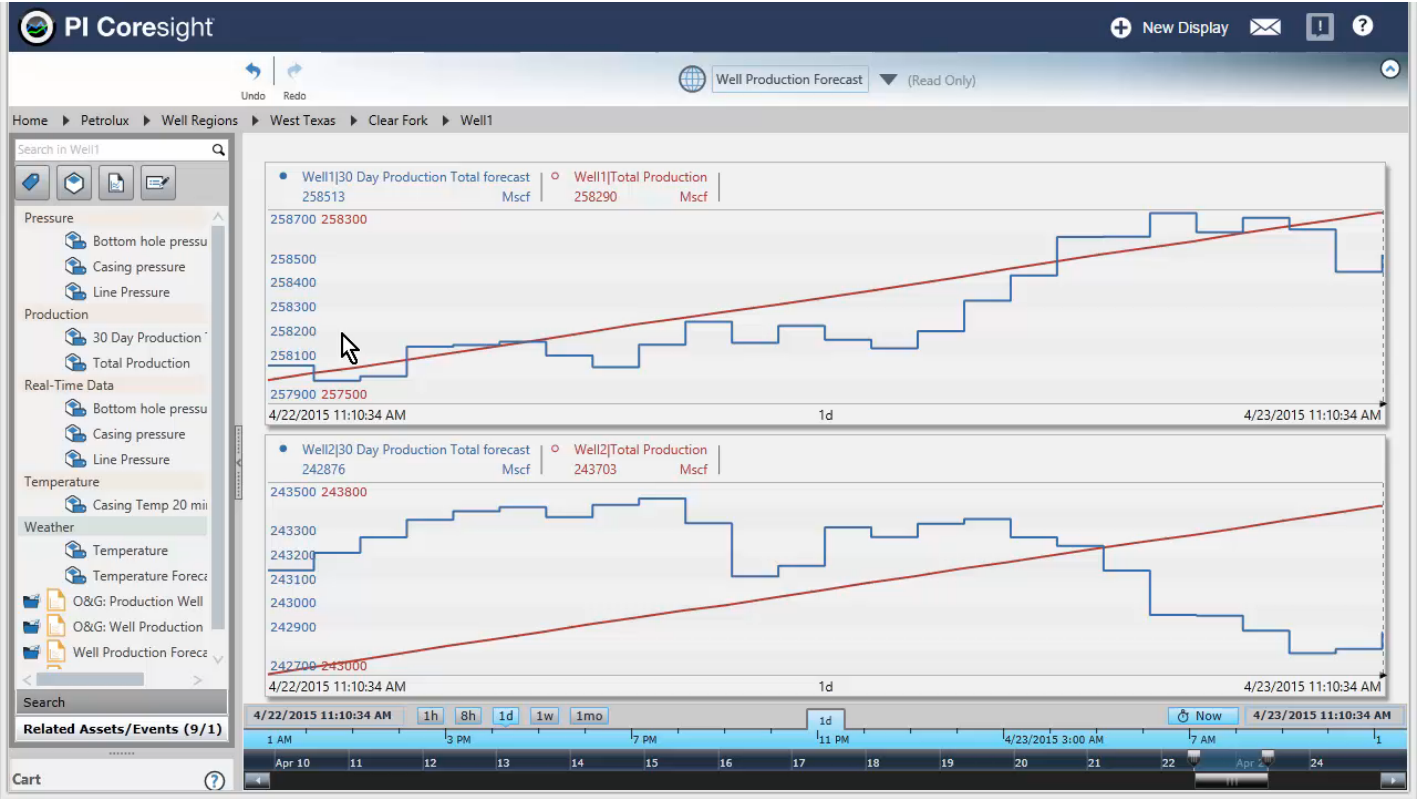
PI Coresight™ The fastest, easiest way to visualize PI System data

- Web Client for ad hoc analysis
- PI System data on any desktop or mobile device
- View PI ProcessBook displays
- Easily integrated into other web applications

What's new with PI Coresight 2015

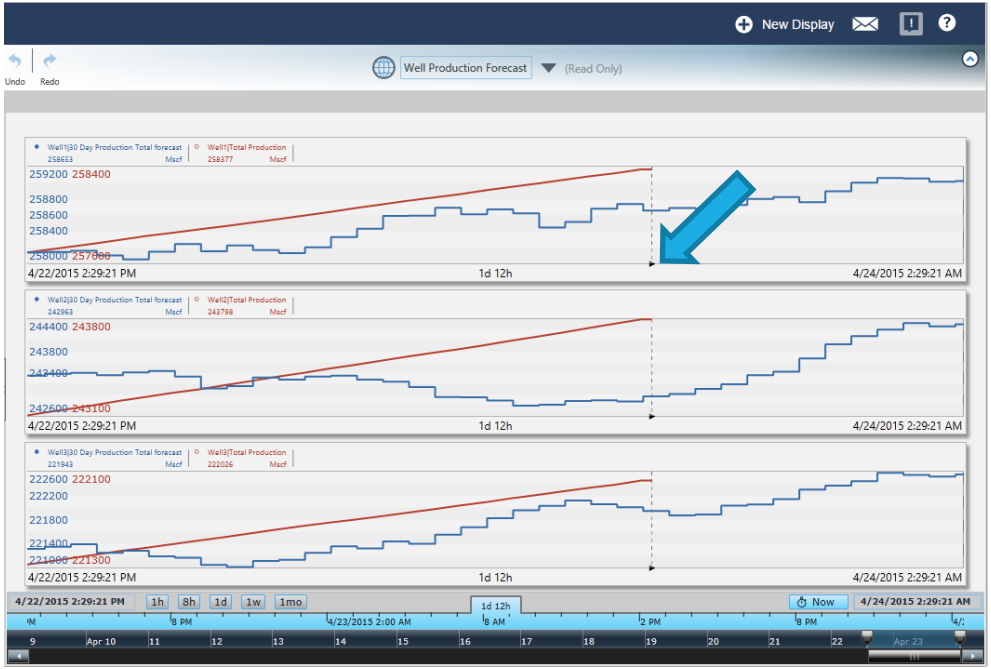
PI Coresight 2015 supports future data

I need to see how production is tracking my forecast



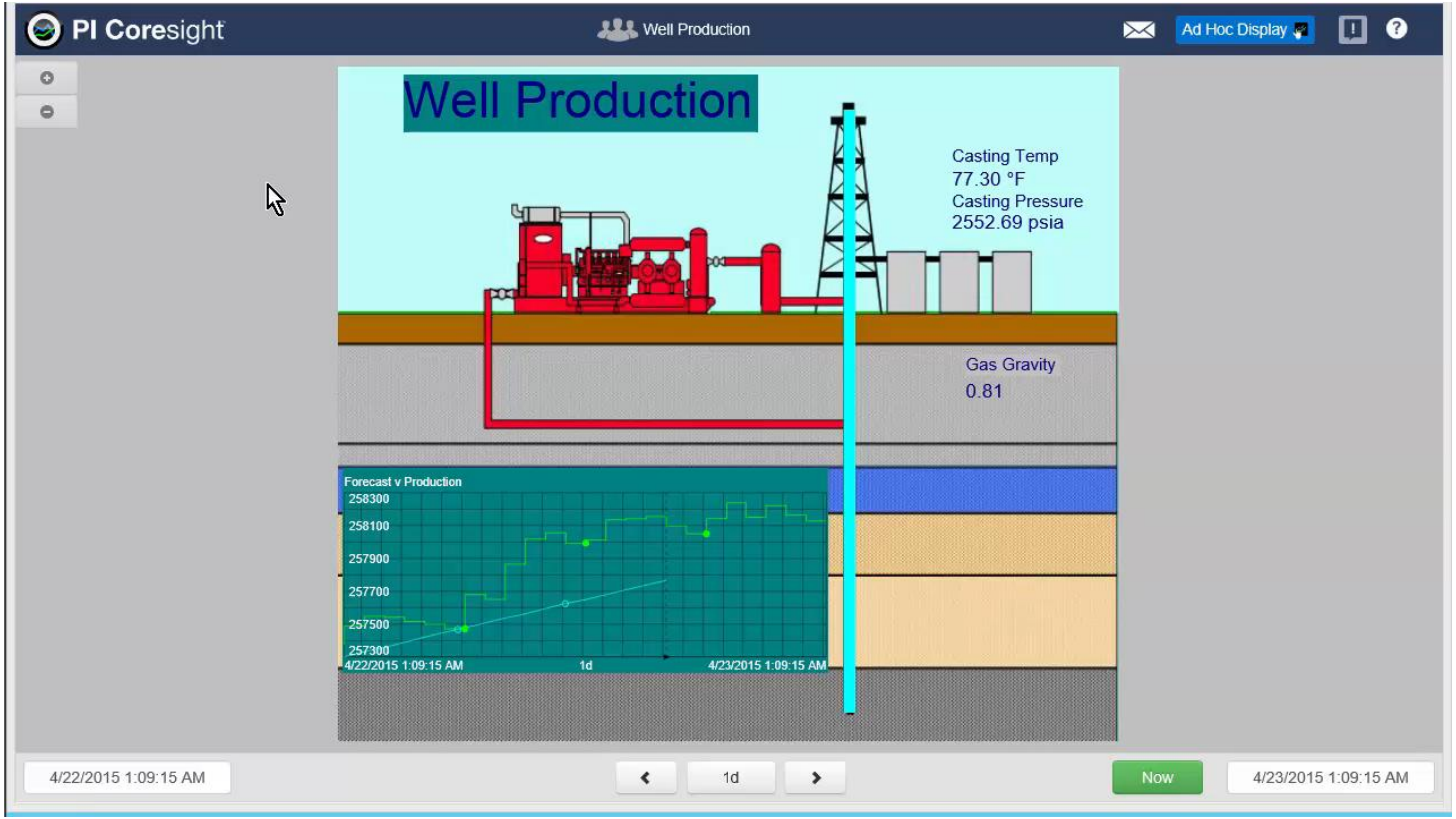
What did we just do?

1. Current Time indicator
2. Actual vs. Forecast- everything updates!



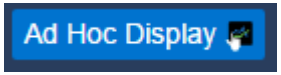
Sharing is important

When I find a problem I need to share it with others

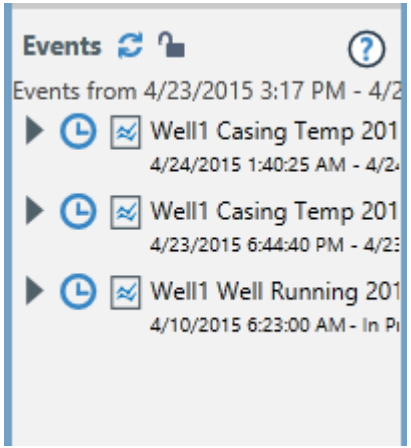


What did we just do?

- Ad hoc display- all visible data items moved to a table



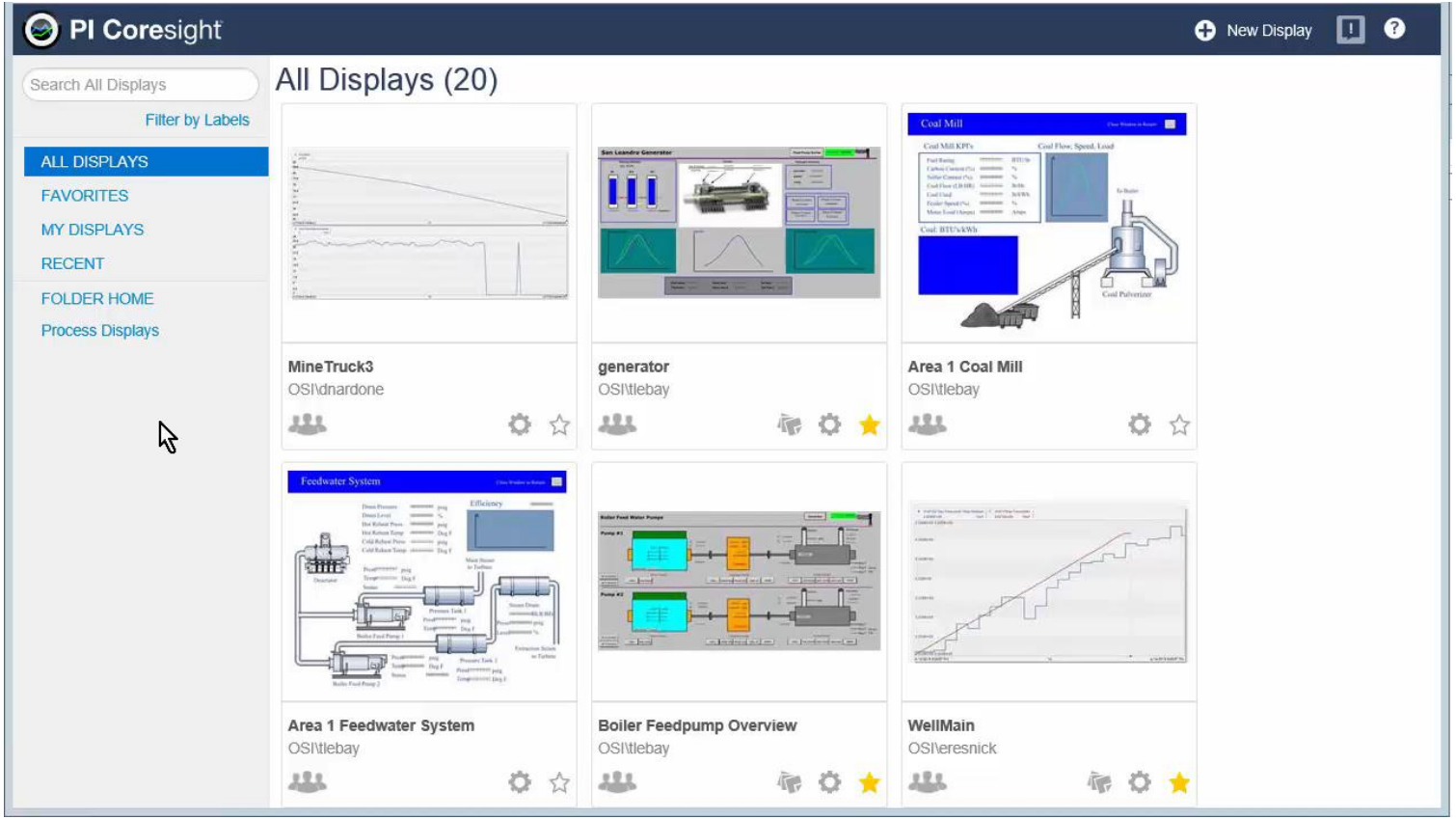
- Related Events- based on data items and time range



- Email link- using local mail client

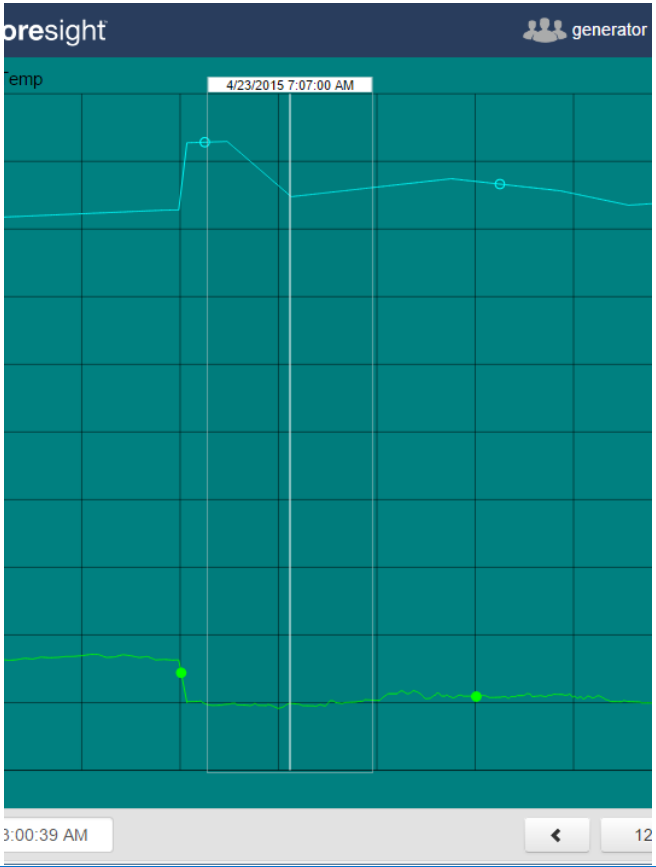
Mining for gold

I want to see specific values on my process displays



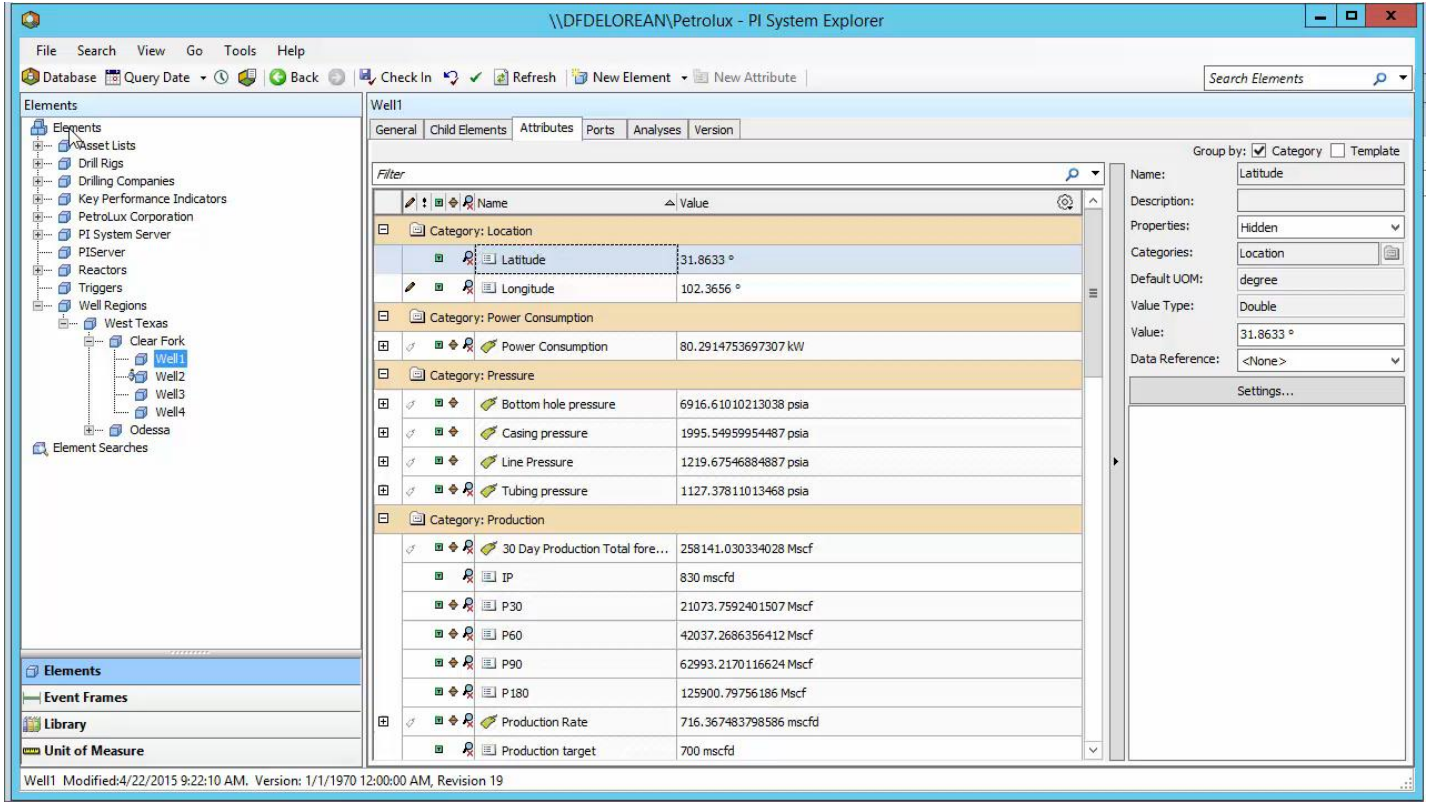
What did we just do?

- PI ProcessBook trend cursor
  - Available on pop-up trend
  - Click/tap to place
  - Drag to move or delete



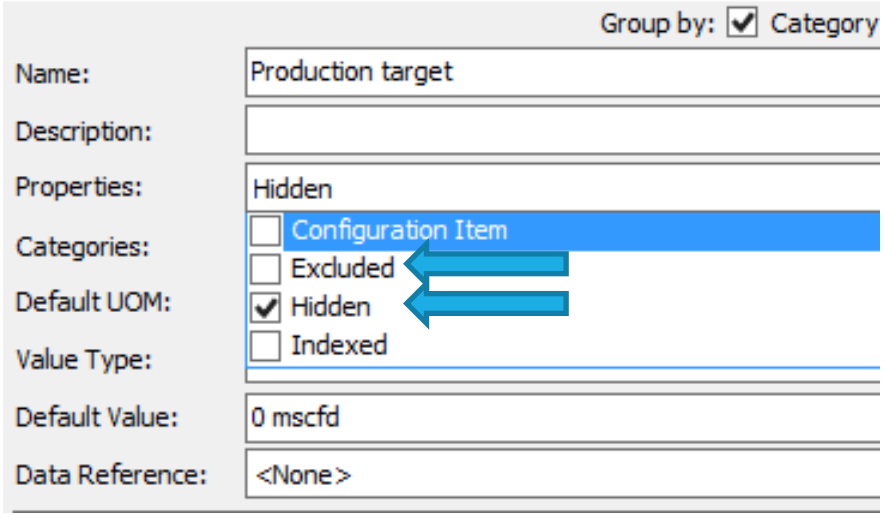
Show only what's important

I only want to see what I'm interested in



What did we just do?

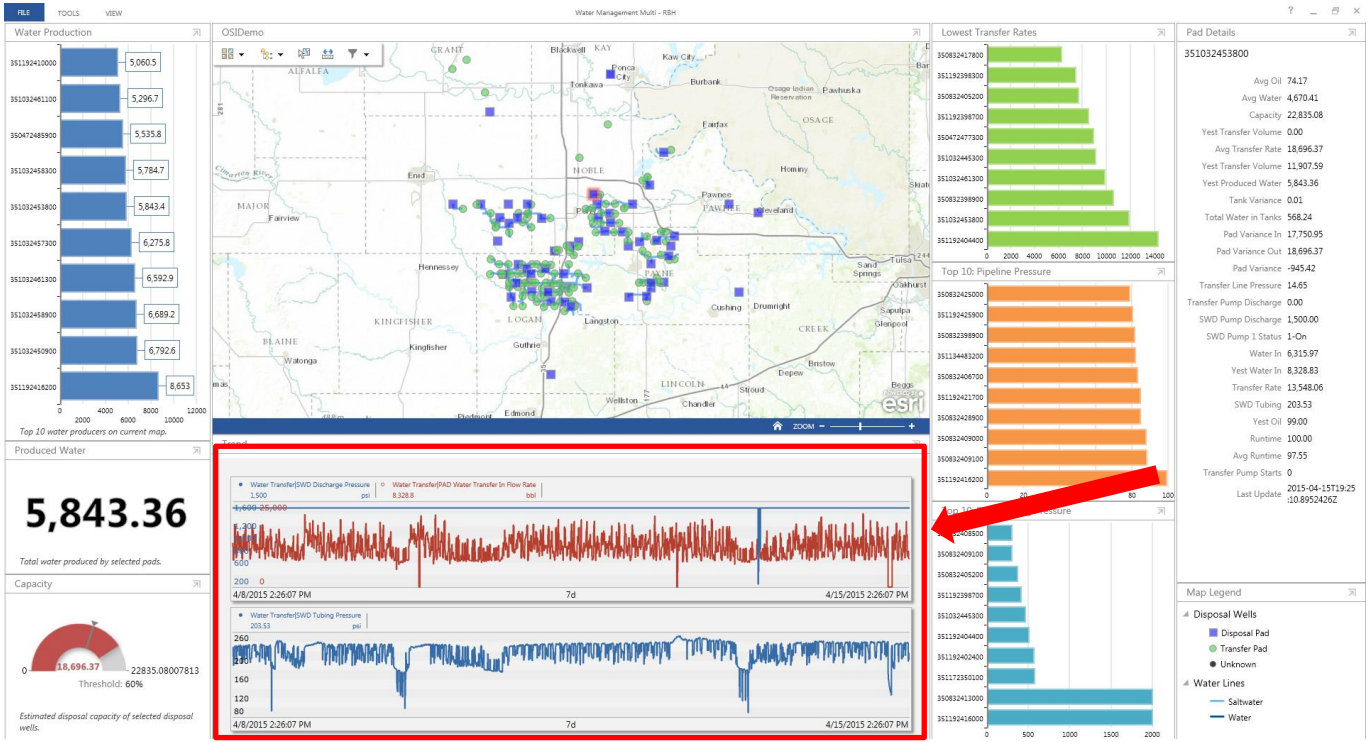
- Hidden property
  - Not returned by PI Coresight search
  - Still returns a value if already on a display
- Excluded property
  - Not returned by PI Coresight search
  - Does not return a value if already on a display



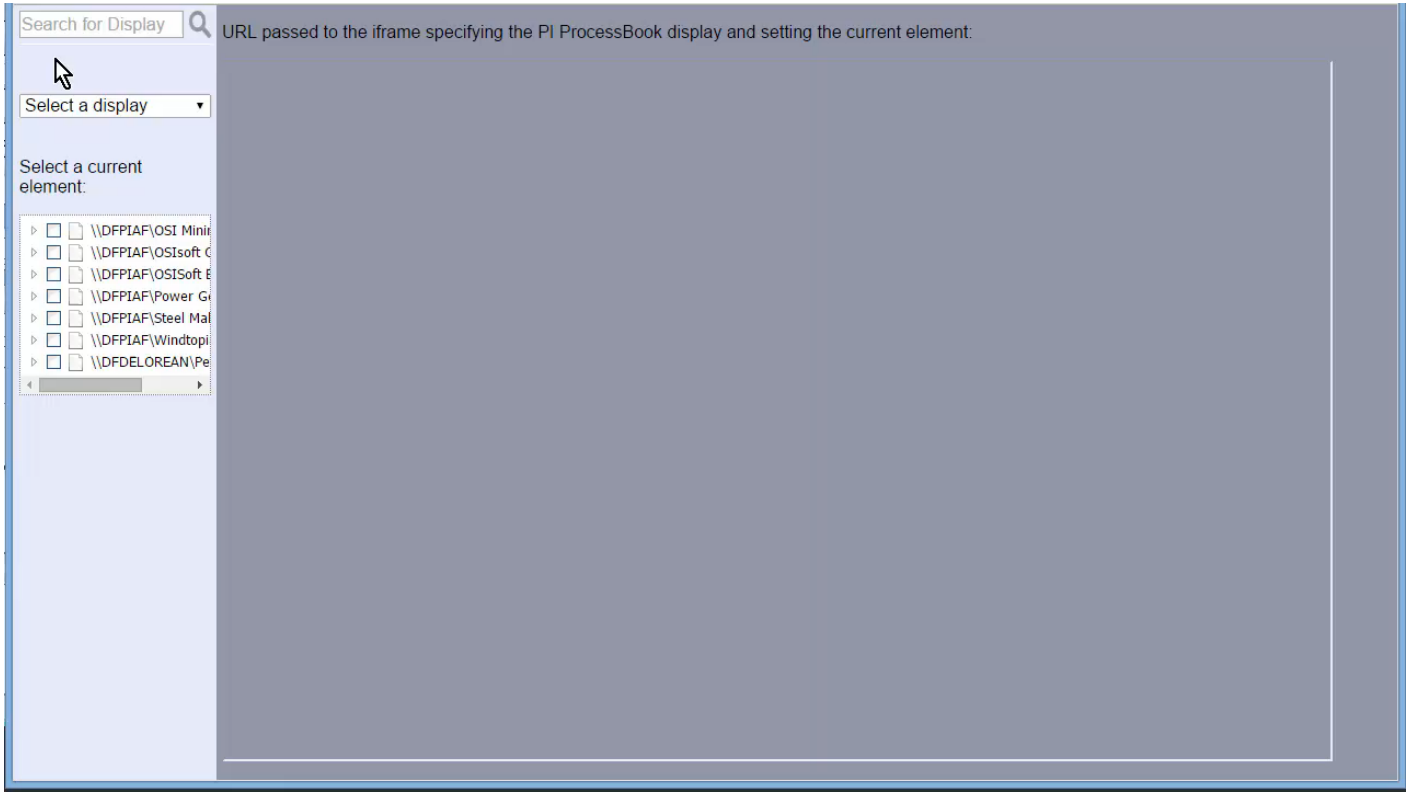
Some things are better together

The power of integration

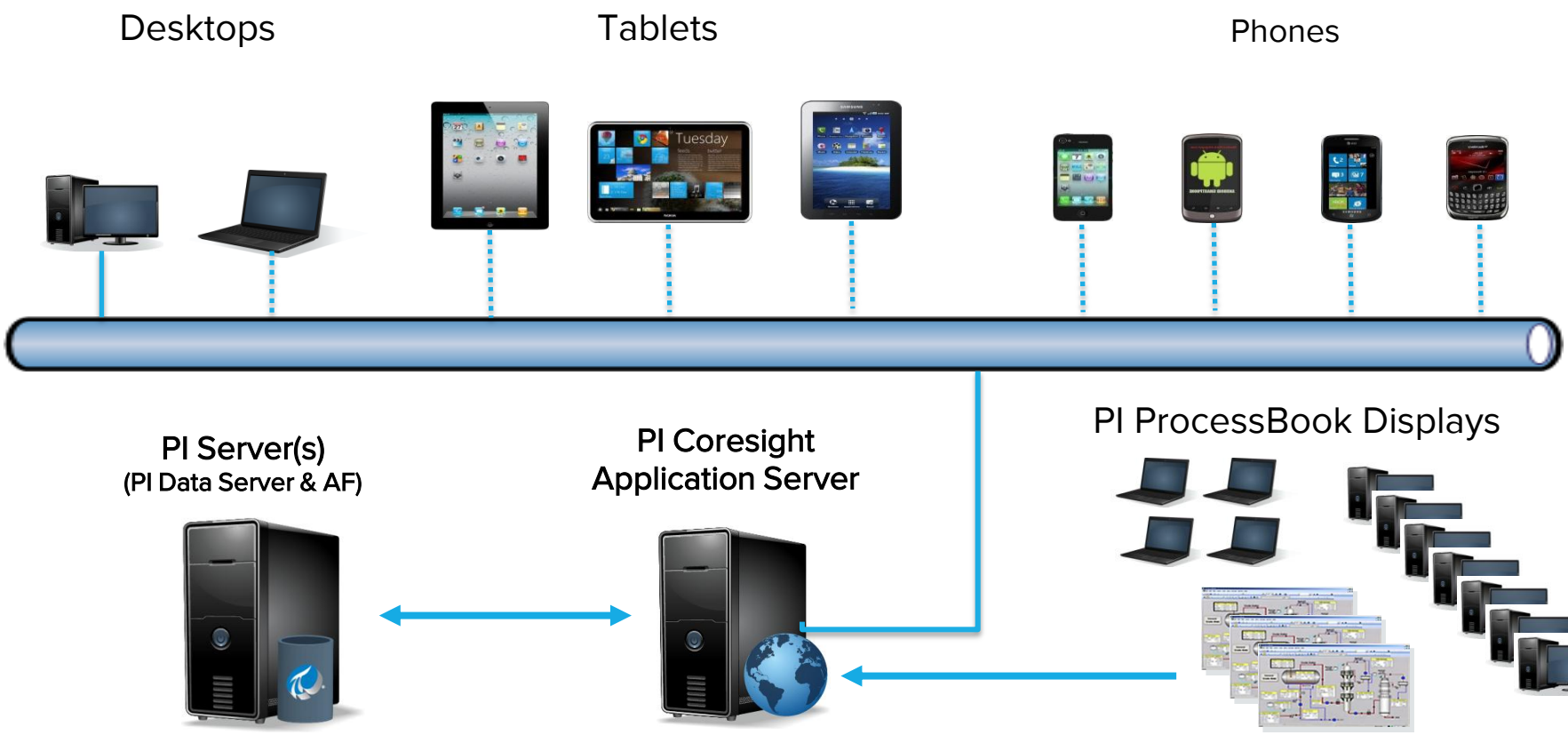
Operations dashboard at Devon Energy



Integrate PI Coresight with other web apps



PI Coresight – Access your data everywhere



Services of the San Francisco
Public Utilities Commission

Implementation of PI Coresight 2014 at the San Francisco Public Utilities Commission (SFPUC)

Max Chung, Electrical Engineering
Wastewater Enterprise (WWE)

Our Background

San Francisco Water Power Sewer
Services of the San Francisco Public Utilities Commission

- The city under The City
  - Wastewater Enterprise (WWE) operates and maintains the [illegible] ects and trea[illegible]
  - 1,00[illegible]
  - 27 p[illegible]
  - 3 tre[illegible]
  - 8 deep water outfalls

How much water can we treat?

San Francisco Water Power Sewer
Services of the San Francisco Public Utilities Commission

- Wastewater Enterprise (WWE) has 2 major and 1 standby sewage treatment plants.
  - Southeast plant (SEP) –treats up to 250 MGD (1G = 3.78L)
  - Oceanside plant (OSP) –treats up to 65 MGD
  - Northpoint plant (NPP) –activated during major rain events, treats up to 150 MGD (during major rain events only)
  - There are 27 sewage collection stations scattered throughout SF which pump flows to these treatment plants

Old fashioned

San Francisco Water Power Sewer

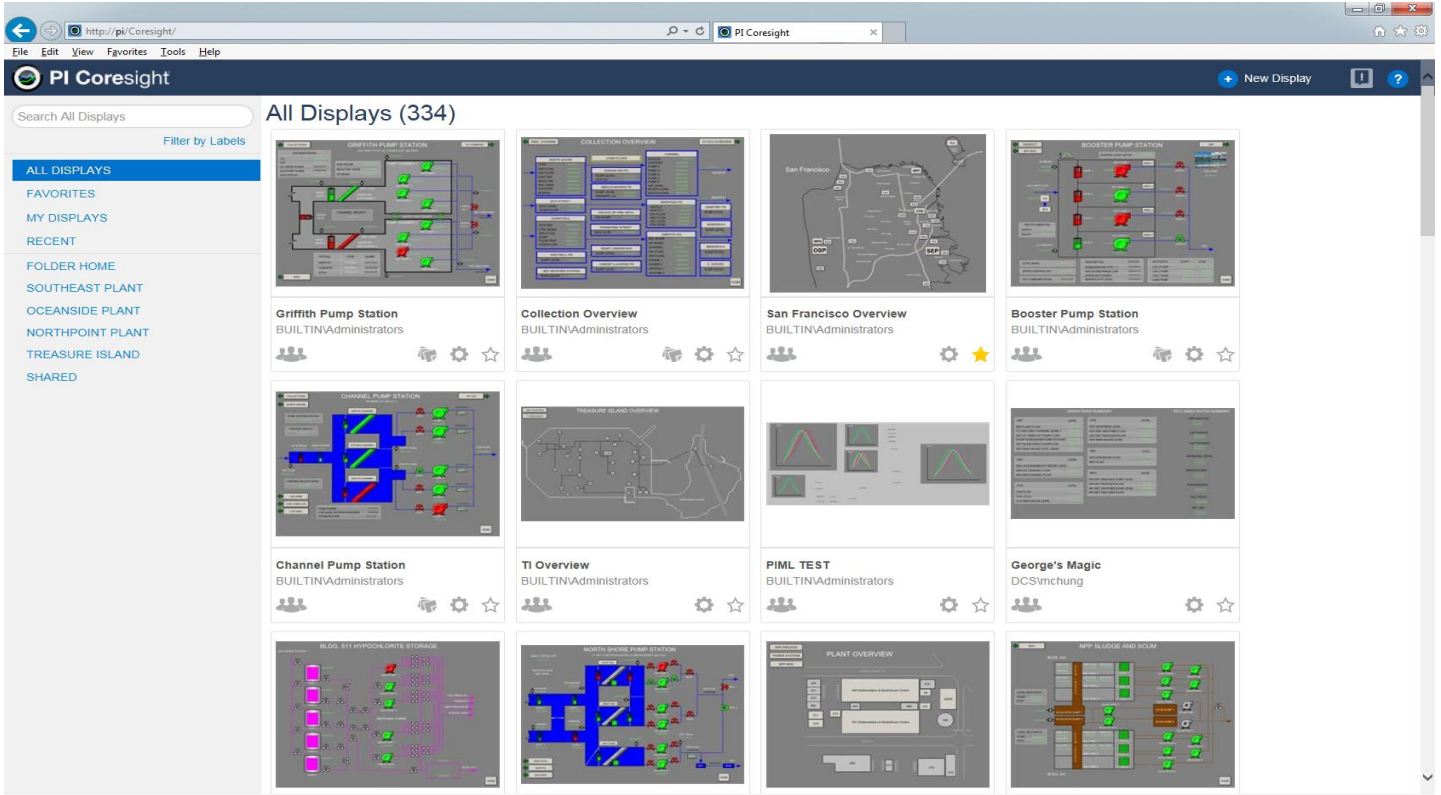
Sewer System Improvement Program

San Francisco Water Power Sewer
Services of the San Francisco Public Utilities Commission

- Our aging infrastructure will embark on a 20 year 6.9 billion dollar capital improvement program
- A part of this program is the upgrade to our 15 year old DCS
- After going through several historians we finally found the right fit, PI System

How we use PI Coresight 2014

San Francisco Water Power Sewer
Services of the San Francisco Public Utilities Commission

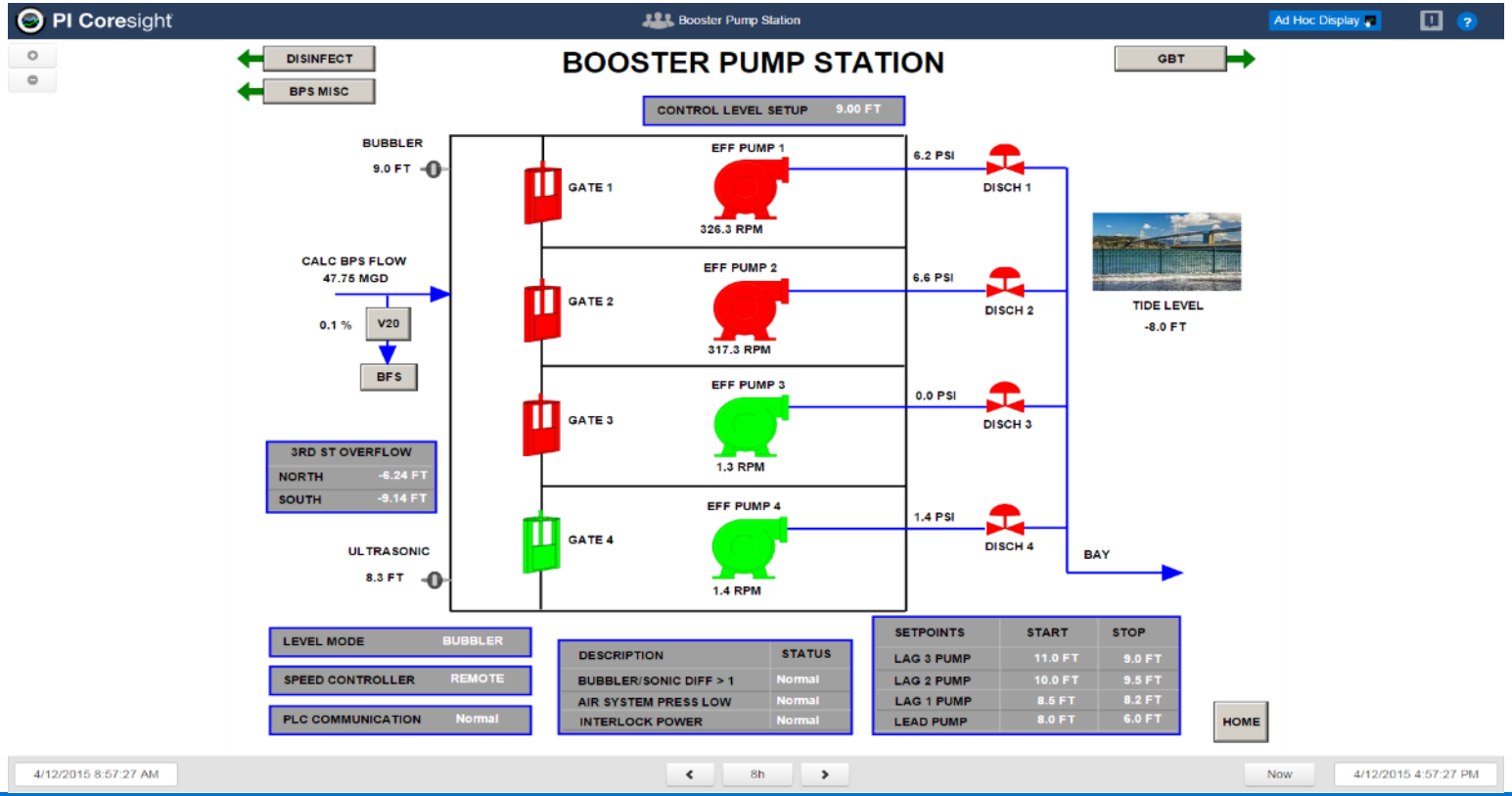


San Francisco Overview

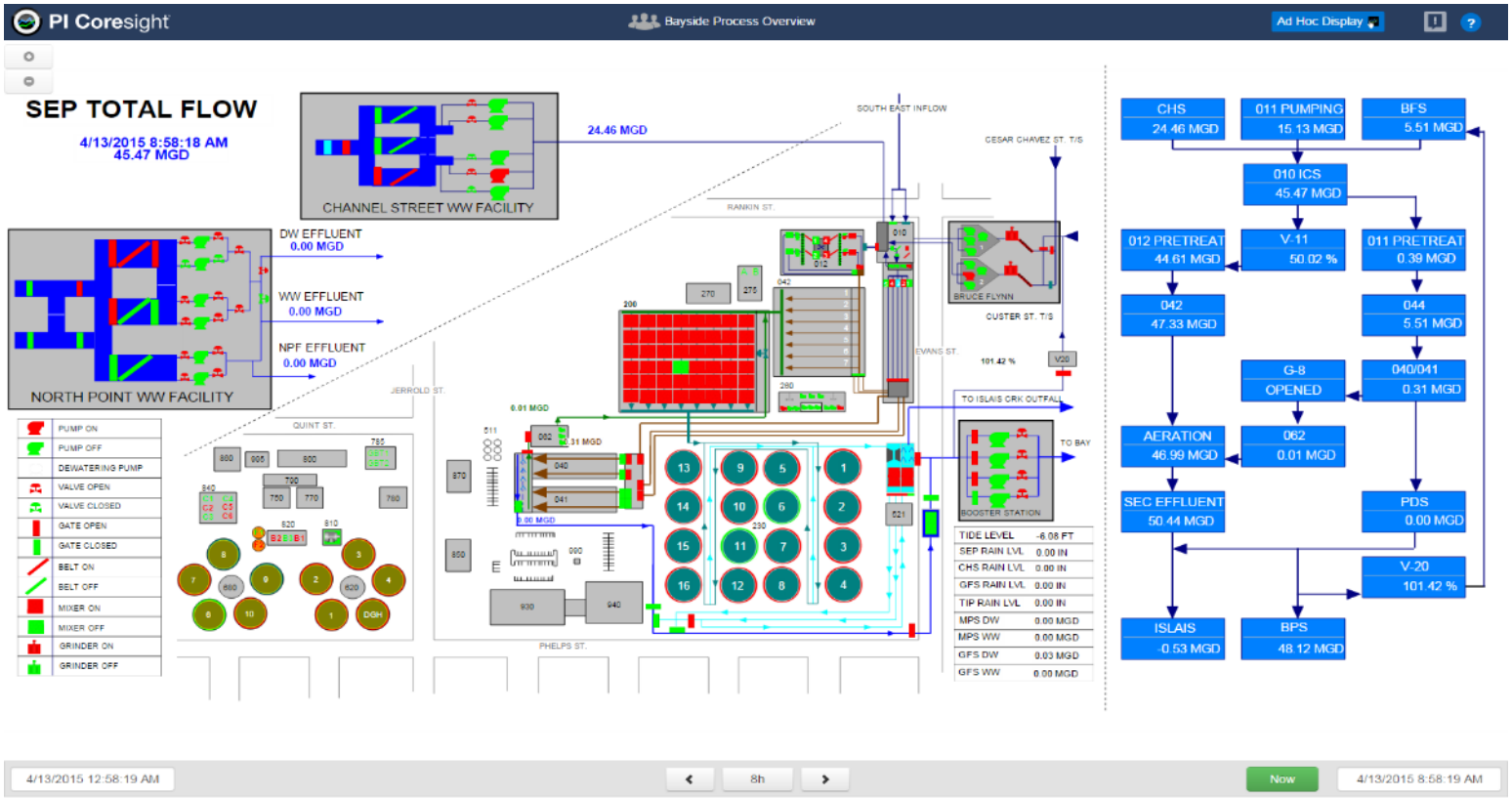
Southeast Plant Overview

San Francisco Water Power Sewer
Services of the San Francisco Public Utilities Commission

Booster Pump Station Training

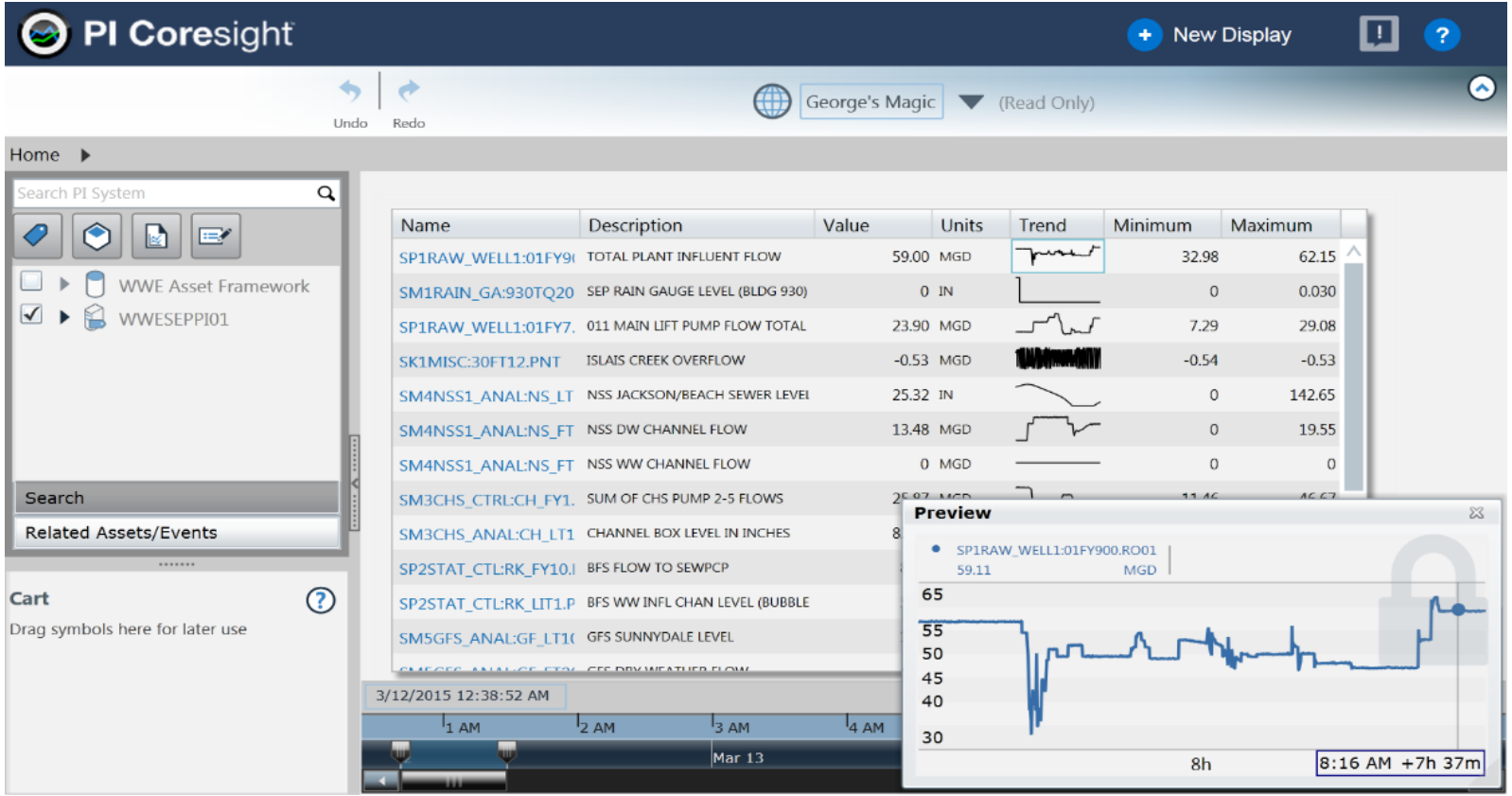


SEP Process Overview

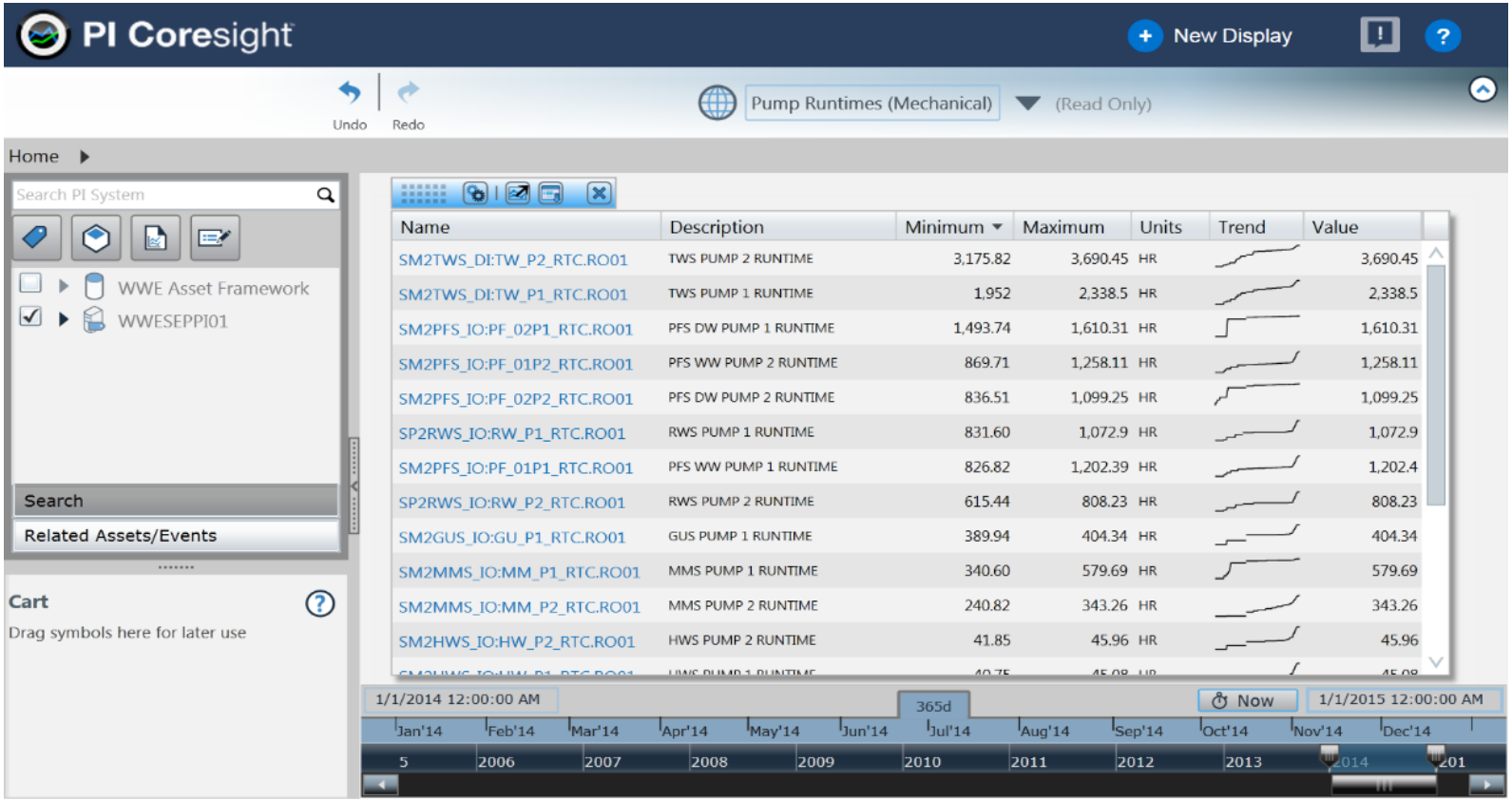


Critical Flows and Levels

San Francisco Water Power Sewer
Services of the San Francisco Public Utilities Commission

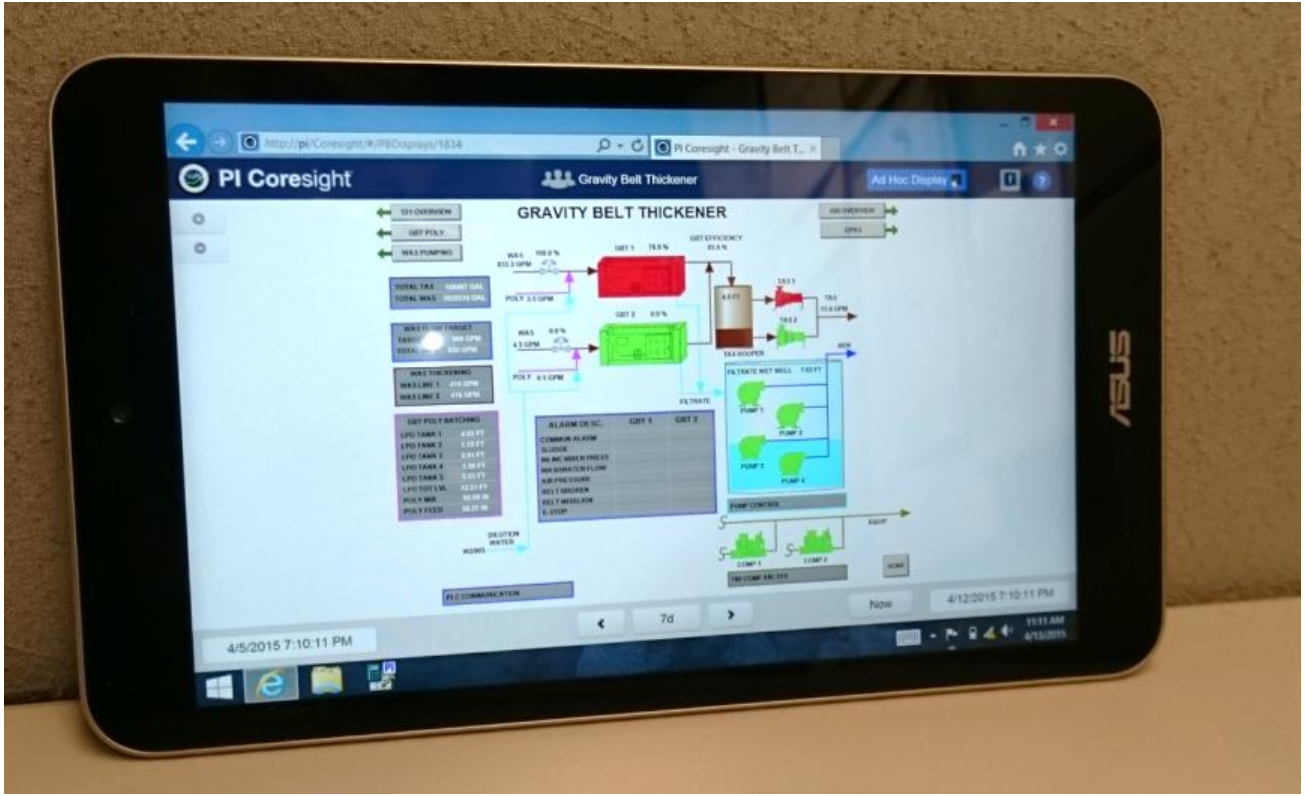


Finding Pump Runtimes

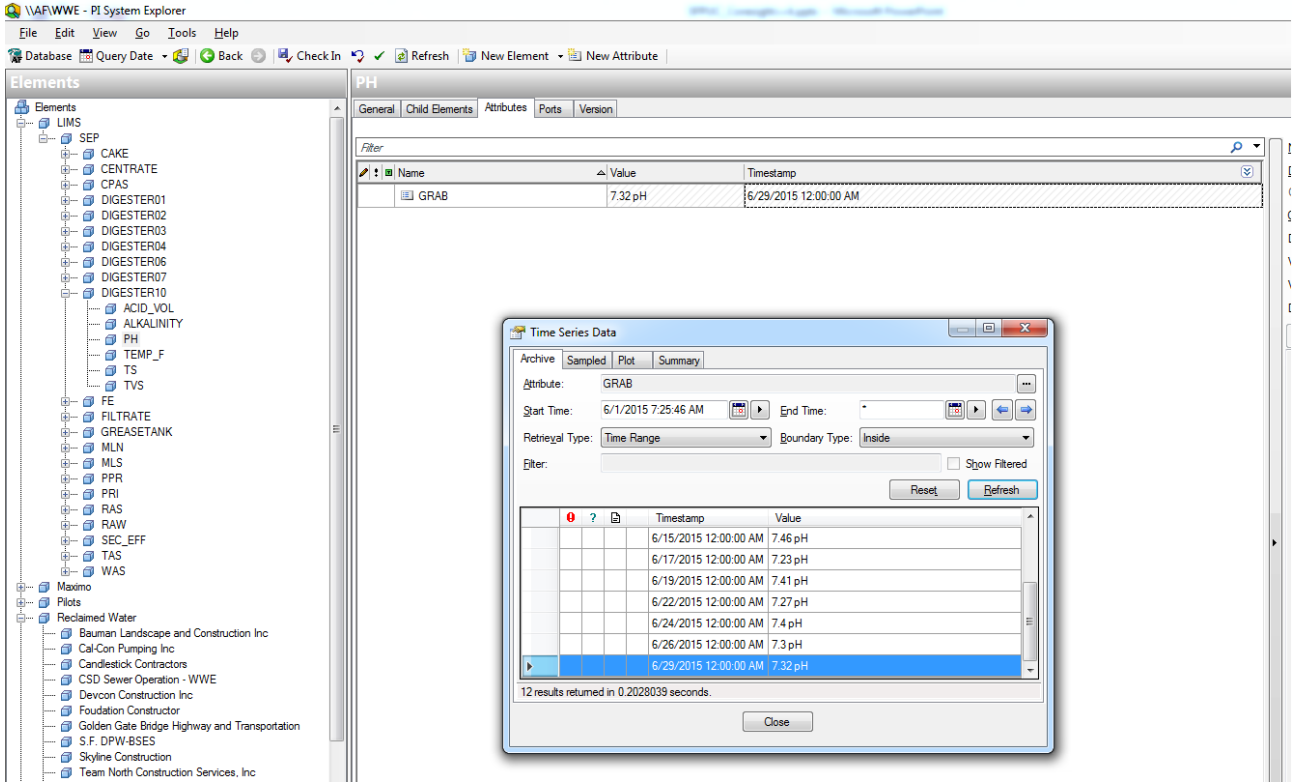


Access Coresight w/ Tablet Devices

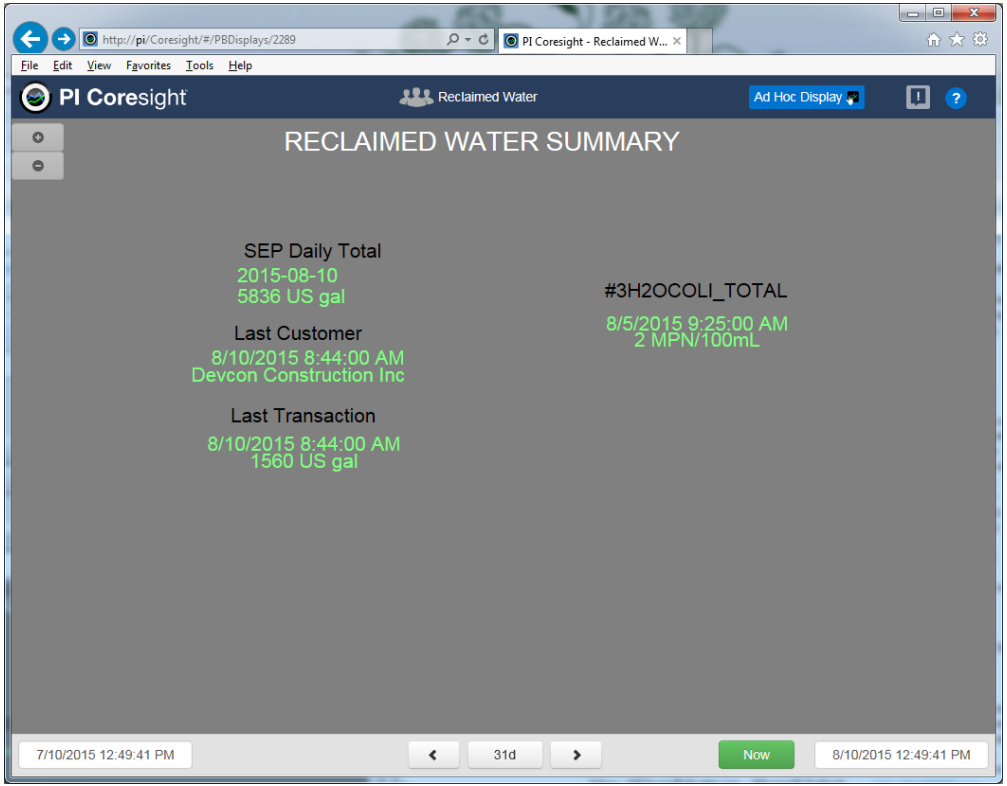
San Francisco Water Power Sewer
Services of the San Francisco Public Utilities Commission



PI Asset Framework

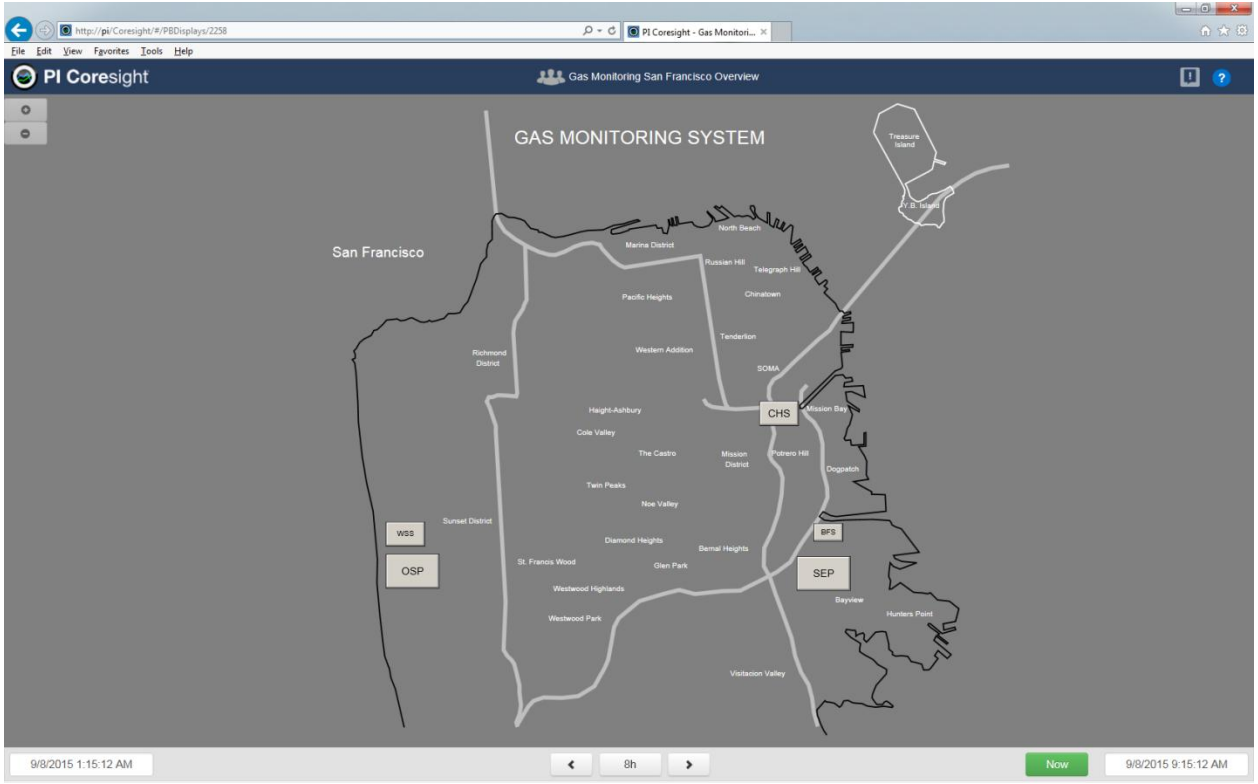


Reclaimed Water

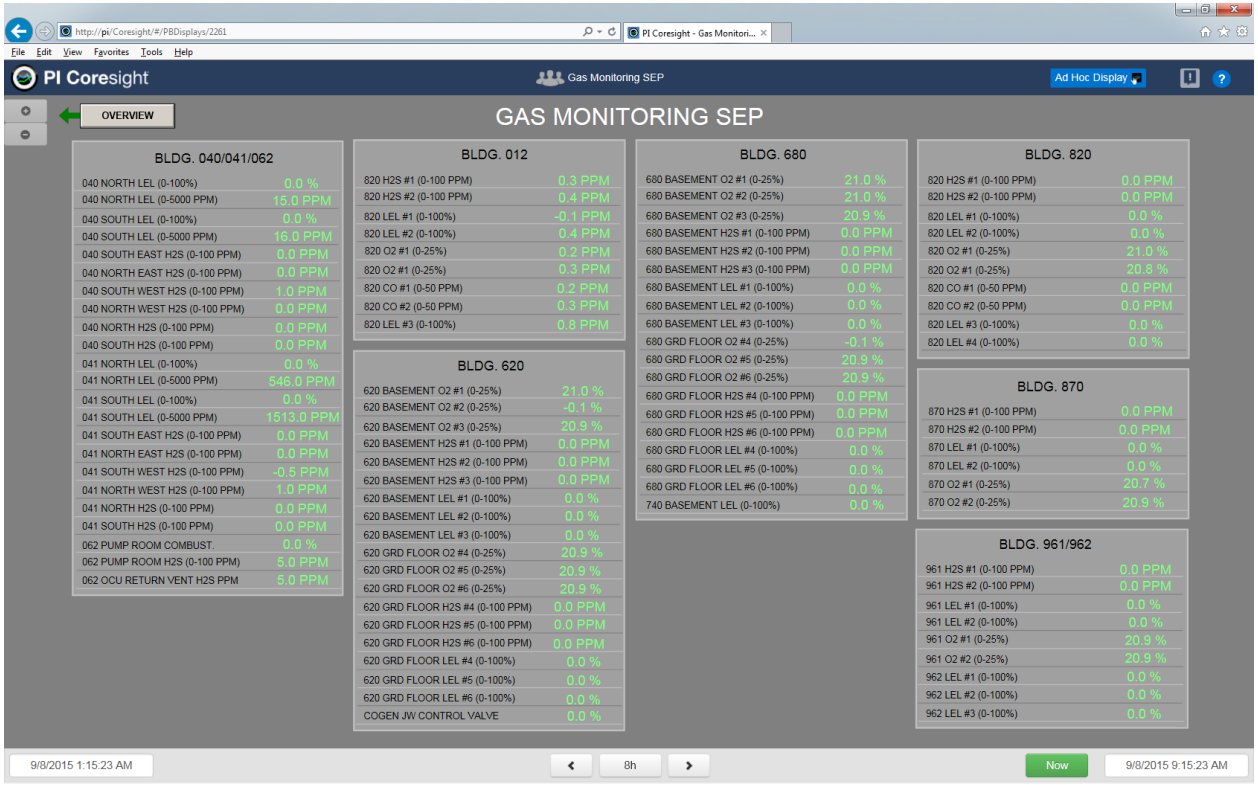


Gas Monitoring System

San Francisco Water Power Sewer
Services of the San Francisco Public Utilities Commission

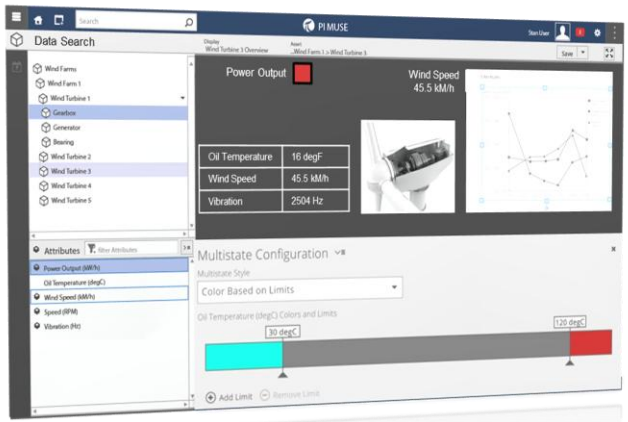


SEP Gas Monitoring



What's planned for PI Coresight?

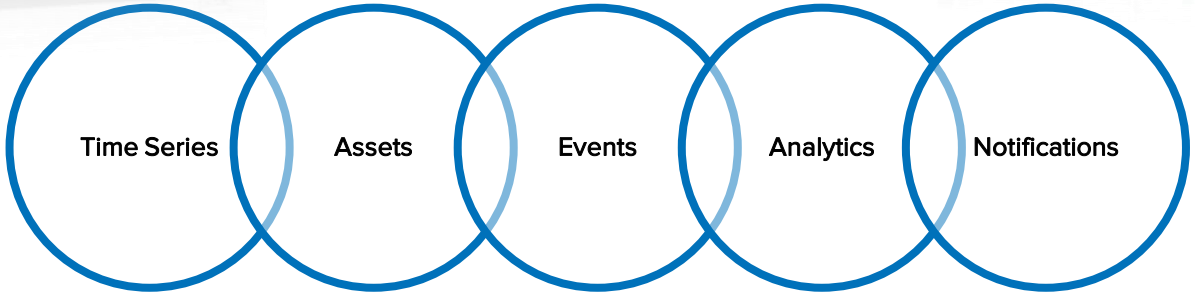
Visualization for today's PI System



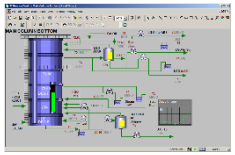
Authoring

Monitoring

Ad Hoc Analysis



TODAY (2015)



PI ProcessBook
Display Editor
Process Monitoring

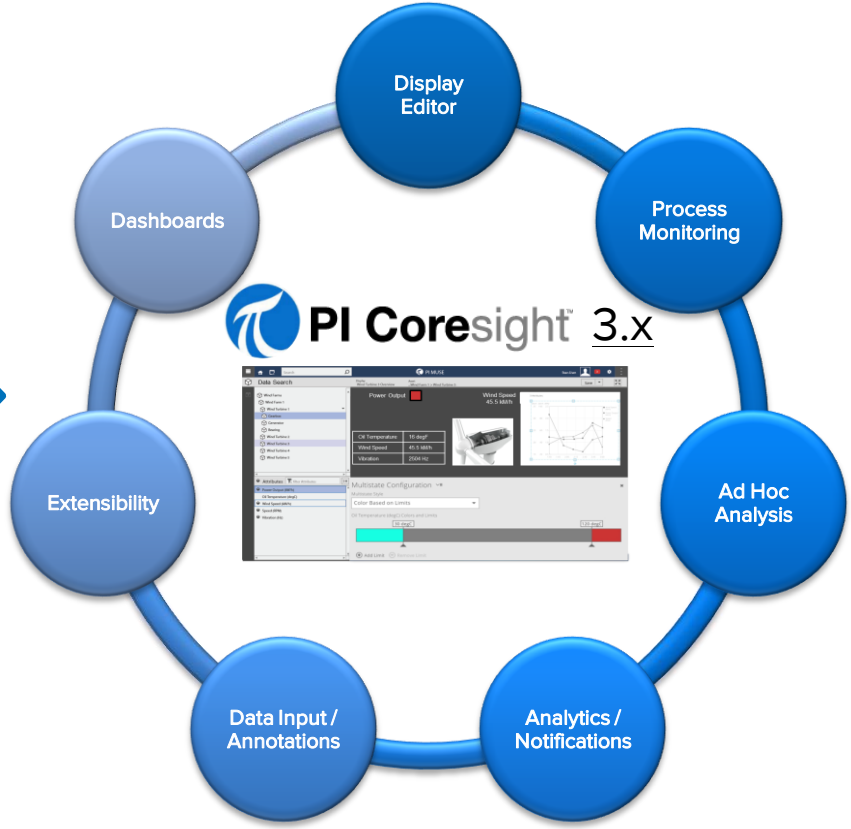
+

PI Coresight 2.x
Ad Hoc Analysis
PB Display Viewer

+

PI WebParts
Dashboards

FUTURE (2016+)



PI Coresight 3.x

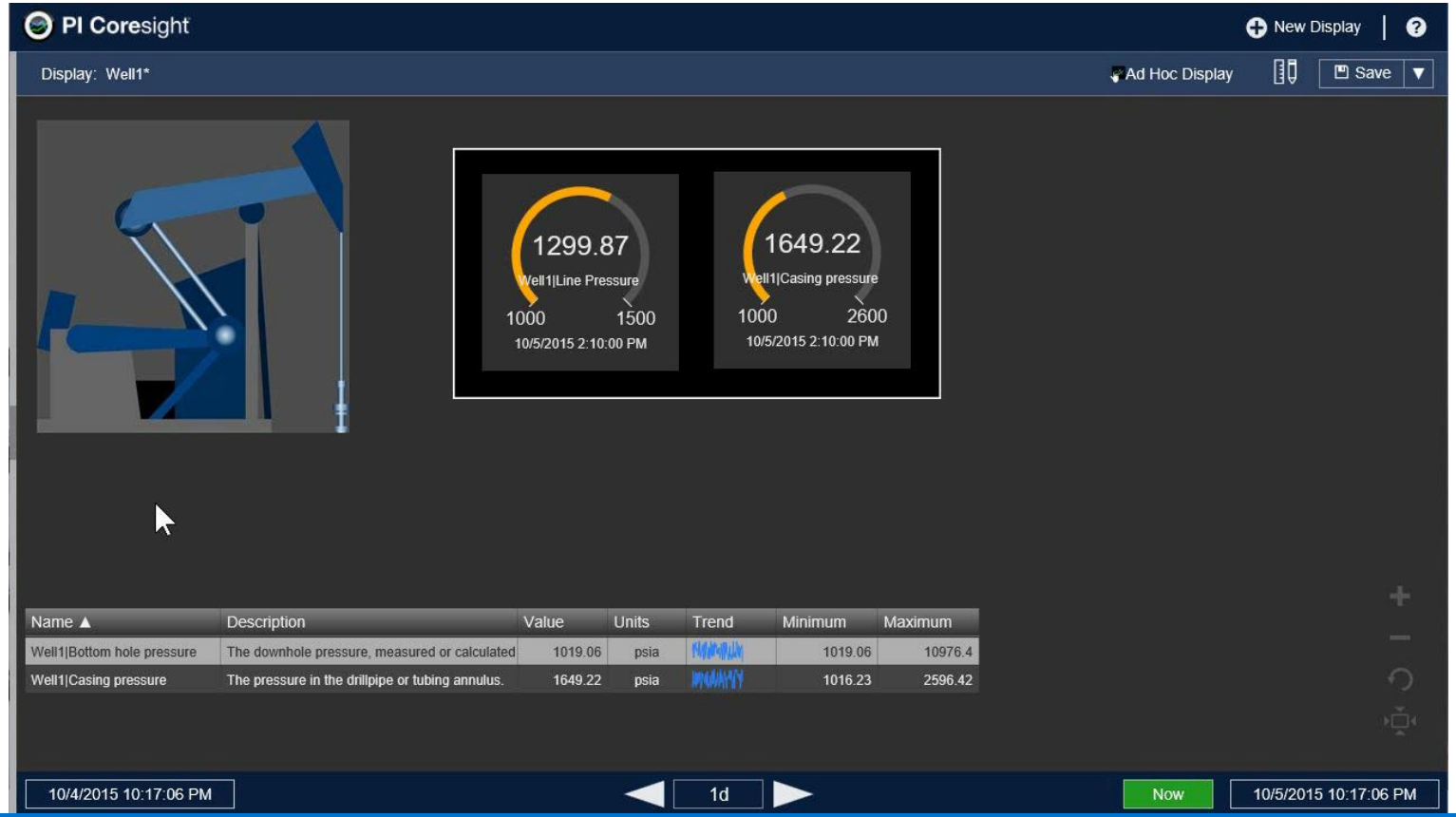
The following is a glimpse of what the development team is working on in support of the PI Coresight 3.x vision.

The functionality displayed is subject to change.

Keep it simple…and make it look good

Draw me a picture

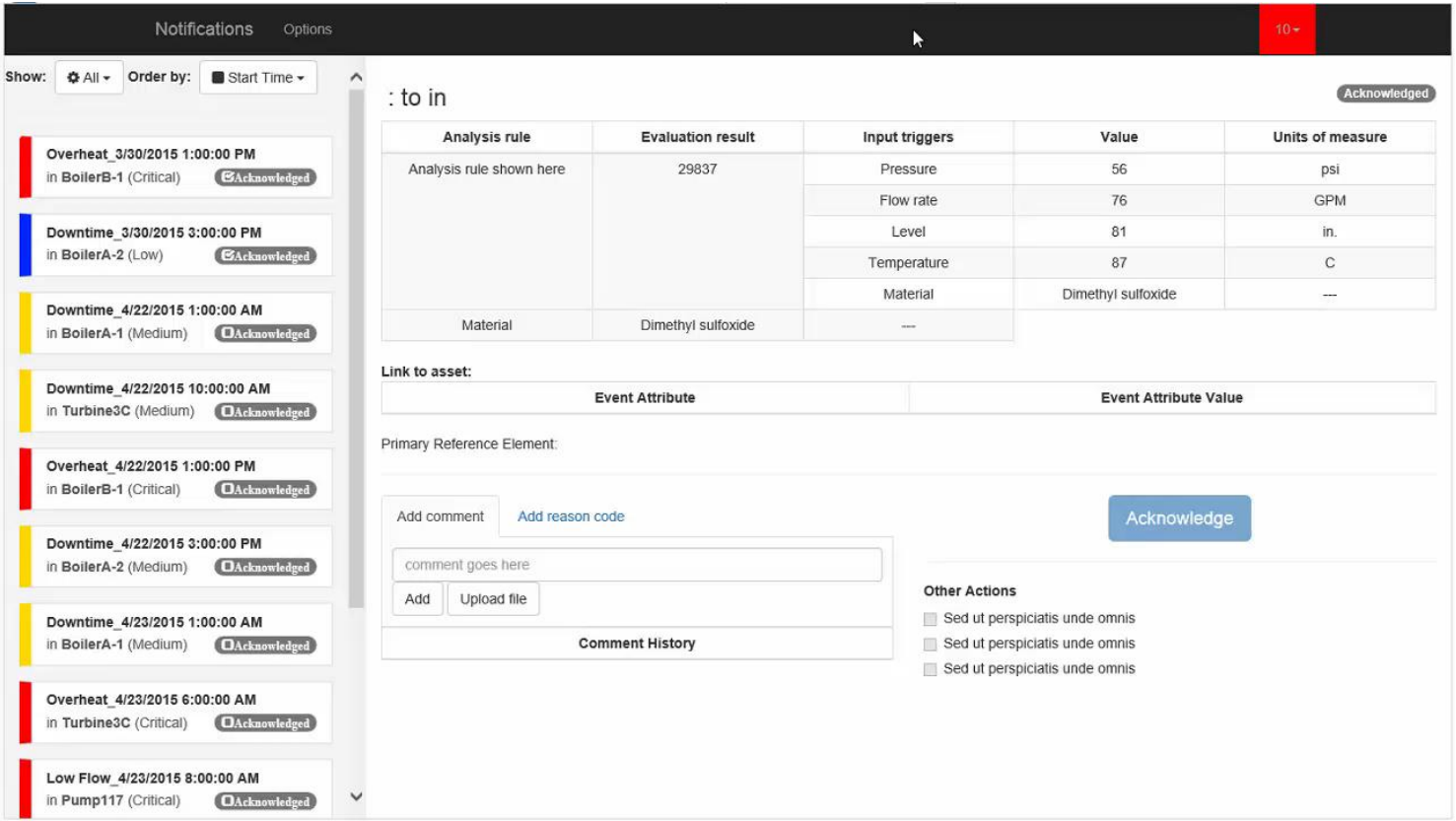
Still in Development



High priority interrupt

What's important right now?

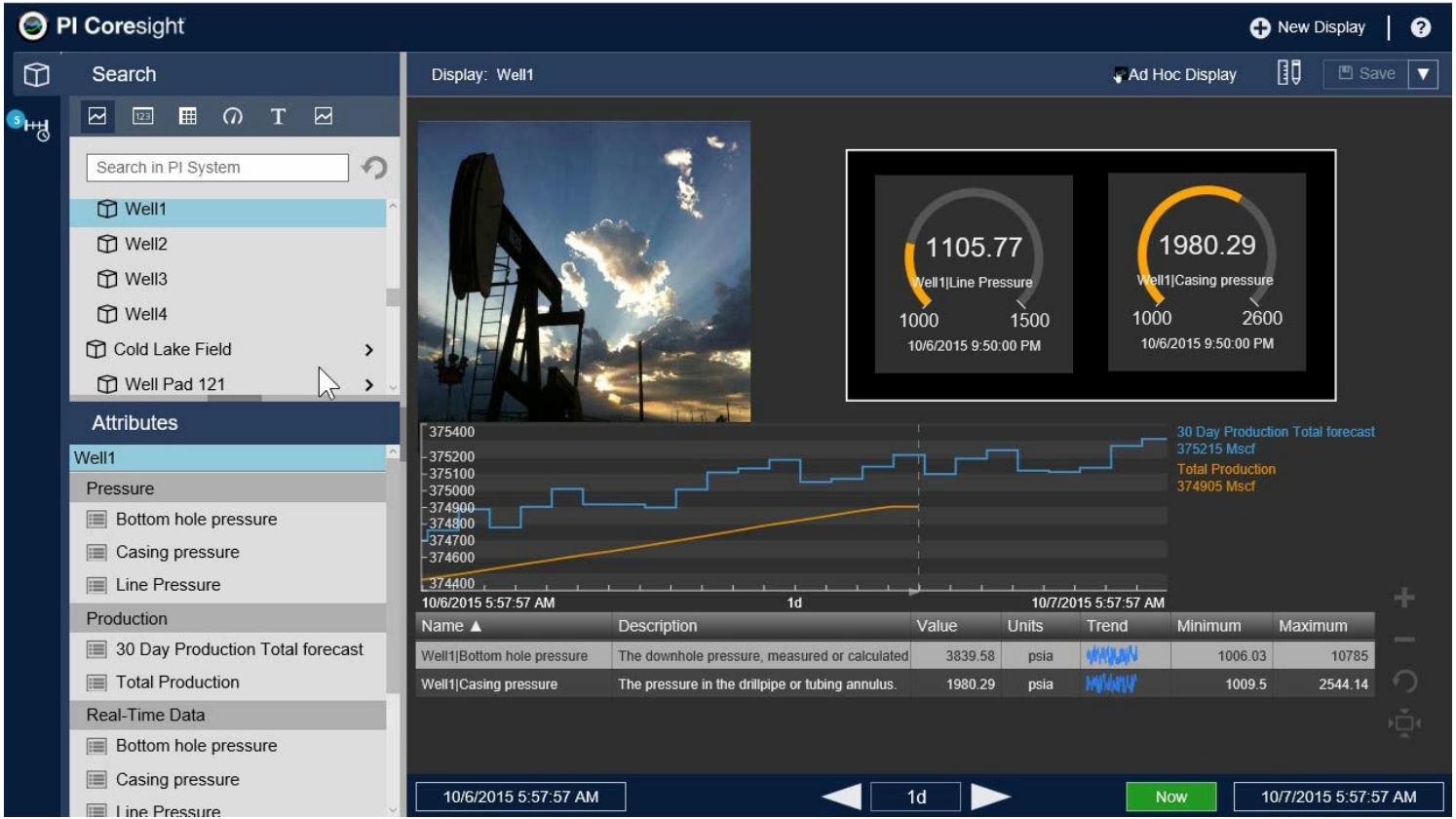
Still in Development



Time is relative

What's different about what just happened?

Still in Development



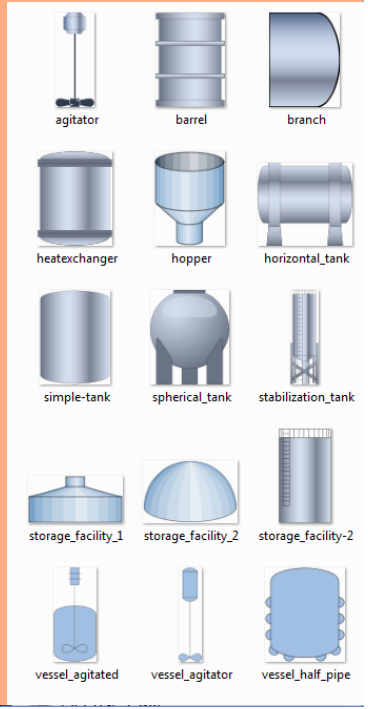
More is better

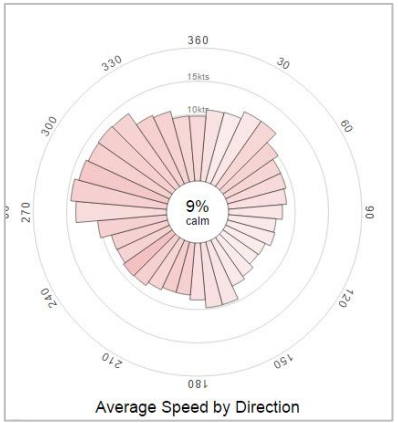
Extensibility

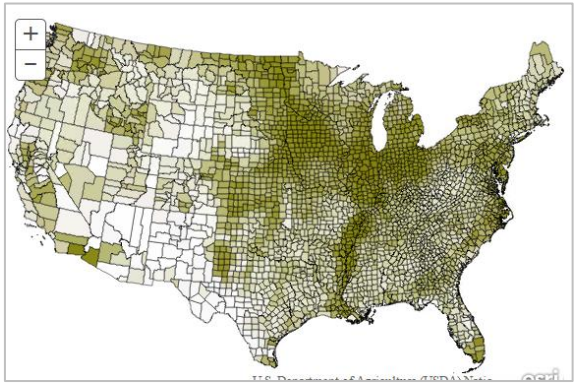
Vision

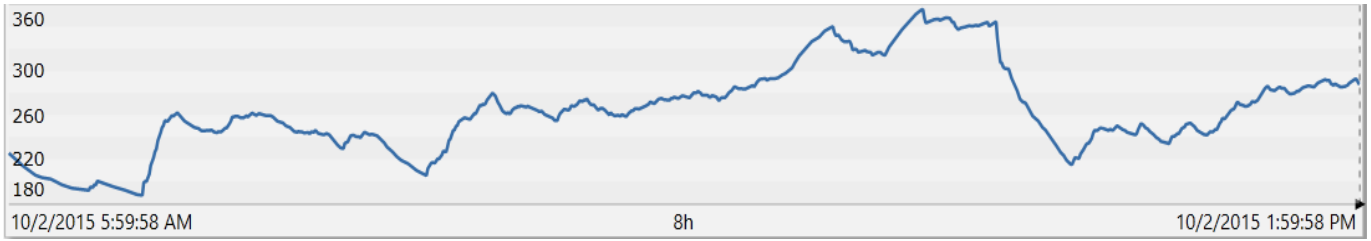
PetroLux

PetroLux Library









The PI System delivers even more value when integrated together

For more information

Best Practices for Using and Deploying AF	13:00 - 13:30
Batch Migration to Event Frames	13:00 - 13:30
Exploring your Data with PI Coresight	14:20 - 15:30 BYOD Session
Event Frames - How to Provide Context to Critical Events	15:00 - 15:30
Using Future Data to Predict your Process	15:40 - 16:50 BYOD Session
A Look at the Future of PI System Visualization	17:00 - 17:30 Closing Keynote

For more information

Day 1

Mondi Steti's Journey to Operational Excellence	14:15 - 14:45
Centrica Energy Renewables - PI CHIPS and Peas	16:45 - 17:15

Day 2

SFW - Enterprise-wide Operational Intelligence System	11:00 – 11:30
MOL - Energy Monitoring Expert System	11:00 – 11:30
A2A - Value Over Time with the PI System Infrastructure	14:00 - 14:30

And more – Check out the recordings!

Summary

- Adopt PI Coresight within your business
- Unlock your valuable PI ProcessBook displays with PI Coresight's ProcessBook Viewer
- Come see us at the product expo!

Max Chung
Electrical Engineer
Wastewater Enterprise (WWE)

Tom LeBay
Product Manager
OSIsoft, LLC

Rene Thomassen
Center of Excellence Engineer
OSIsoft, LLC

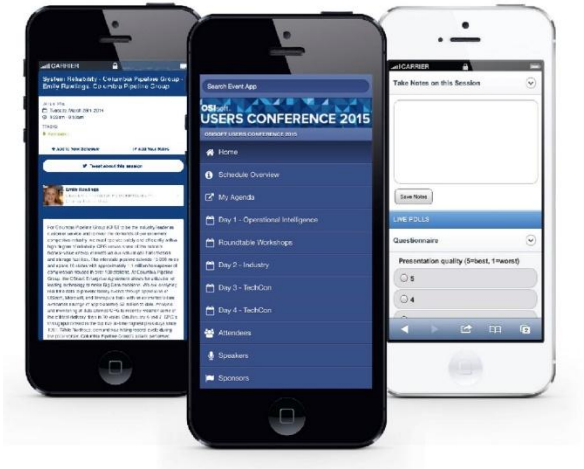
Questions

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

State your
name & company

Please don't forget to…

Complete the Online Survey for this session



http://eventmobi.com/emeauc15

감사합니다

谢谢

Danke

Gracias

Merci

Thank You

ありがとう

Спасибо

Obrigado

Come see us at the product expo!