Gaining and Sharing Insights Across the Enterprise from Anywhere

Presented by **Teresa Young, Field Service Engineer**

Data-driven Decisions

A recent **study at MIT** showed that organizations **relying on data** to make decisions **performed** at rates 4-6 % **higher** than their peers.*

*Erik Brynjolfsson,
MIT Professor*

Sharing Insights Across the Enterprise

Operational **insights** are discovered frequently throughout your business…

…but is everyone able to **share** their discoveries **quickly**, **easily** and **effectively**?

Any Data, Anytime, Anywhere

PI Visualization Suite

- Gives **every tool** at your fingertips

- To **fit your needs**

- And facilitate **enterprise-wide collaboration**

PI ActiveView

PI WebParts

PI BatchView

PI Coresight

PI ProcessBook

PI Manual Logger

PI DataLink

PI Visualization Suite

The PI System Client Tools

- **PI Coresight** for ad hoc analysis and collaboration with mobility
- **PI ProcessBook** for display building and monitoring
- **PI DataLink** for analysis and reporting
- **PI WebParts** for enterprise-wide collaboration
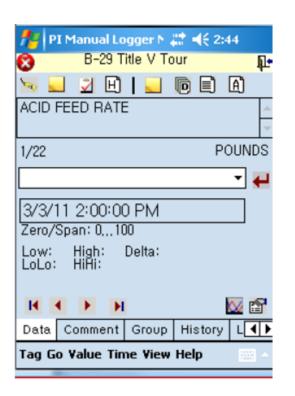- **PI Manual Logger** for manual data collection

PI Manual Logger

- **Manual entries** are oftentimes crucial
- **Centralized** configuration based on **tours** and **rounds**
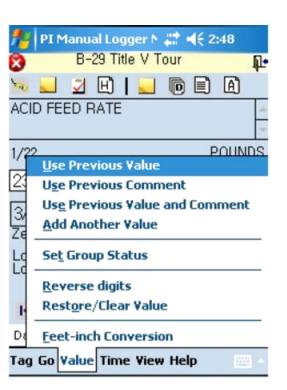- Available on computers and mobile devices (**Windows Mobile**)

Report

Monitor

Explore

Collaborate

Review

Share

Collect

Case Study – Eastman Chemical
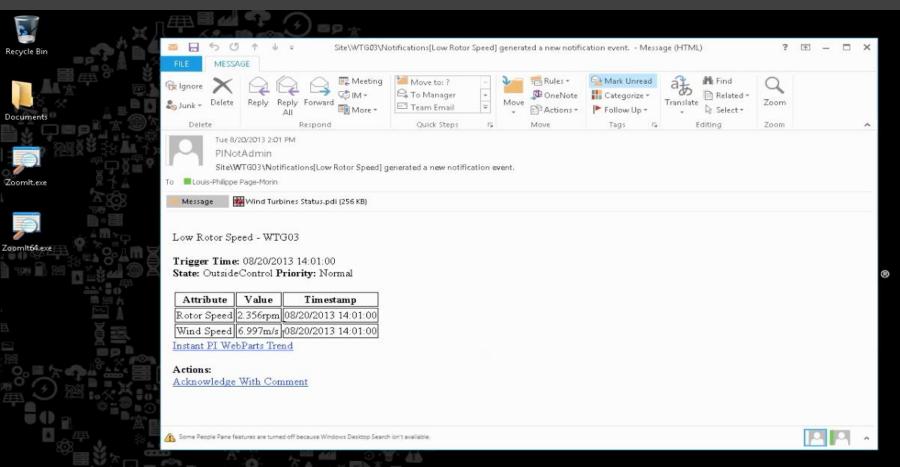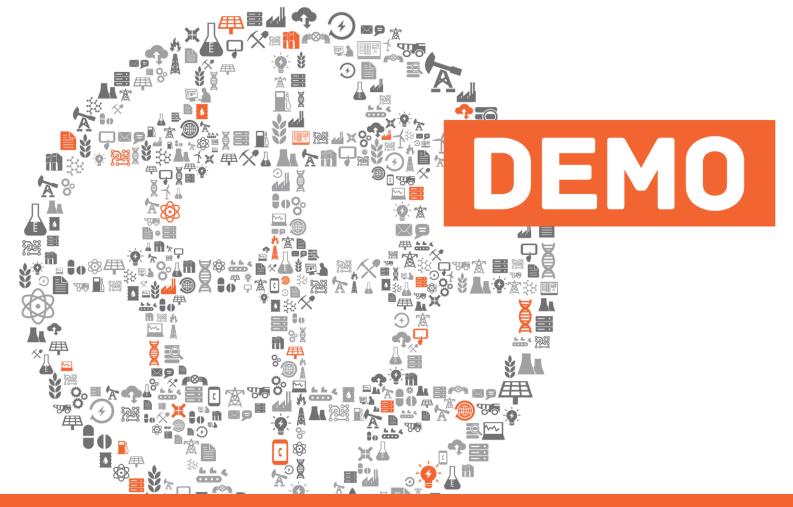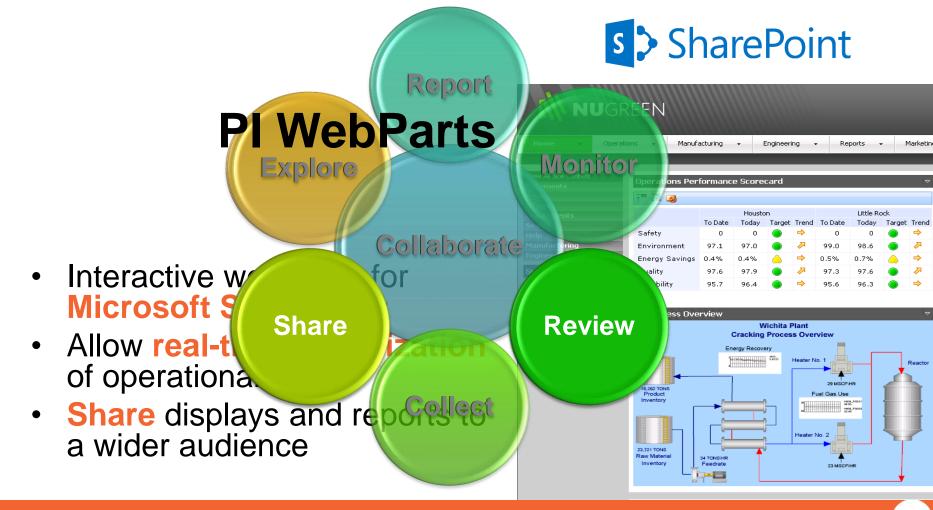
DEMO

PI WebParts

- Interactive web parts for **Microsoft SharePoint**
- Allow **real-time visualization** of operational data
- **Share** displays and reports to a wider audience
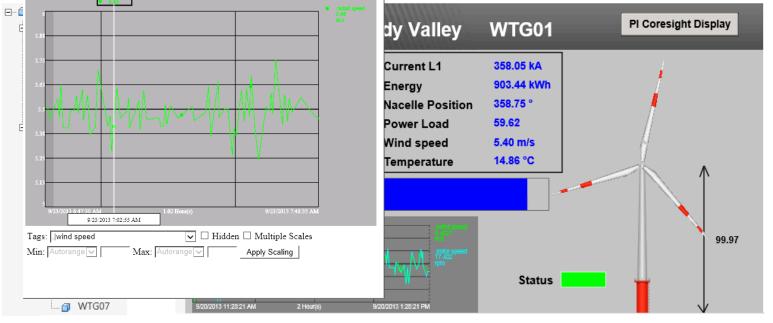
PI DataLink Reports in Microsoft SharePoint
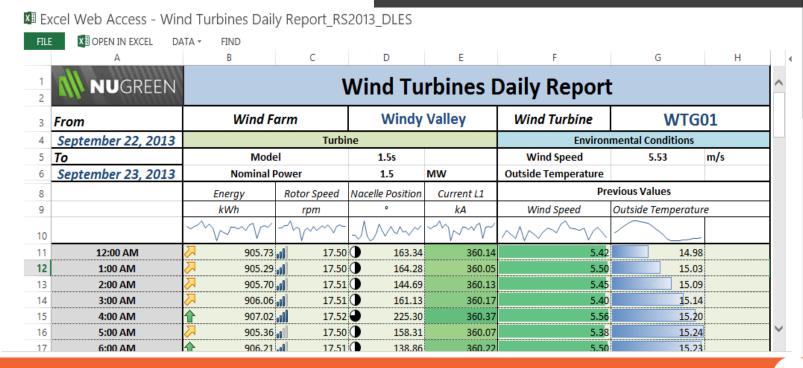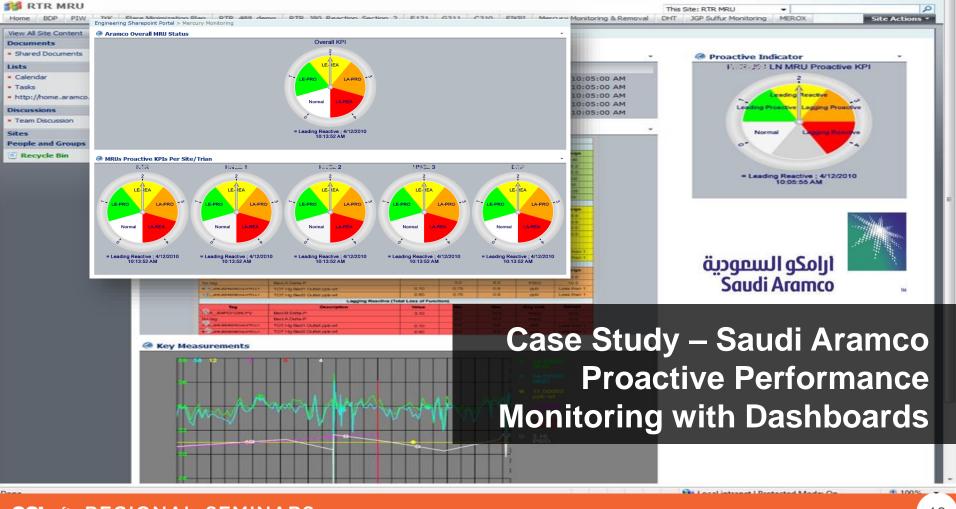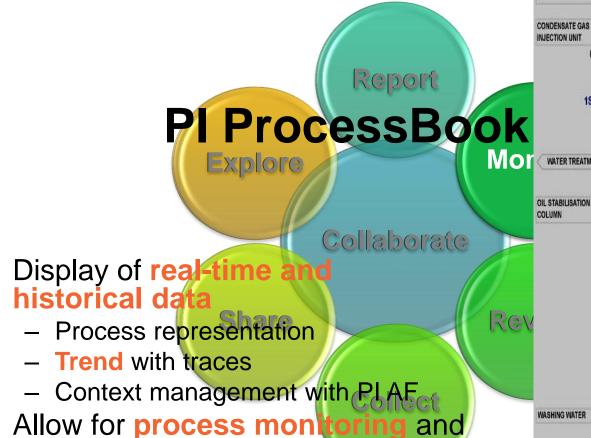
Case Study – Saudi Aramco Proactive Performance Monitoring with Dashboards

PI ProcessBook
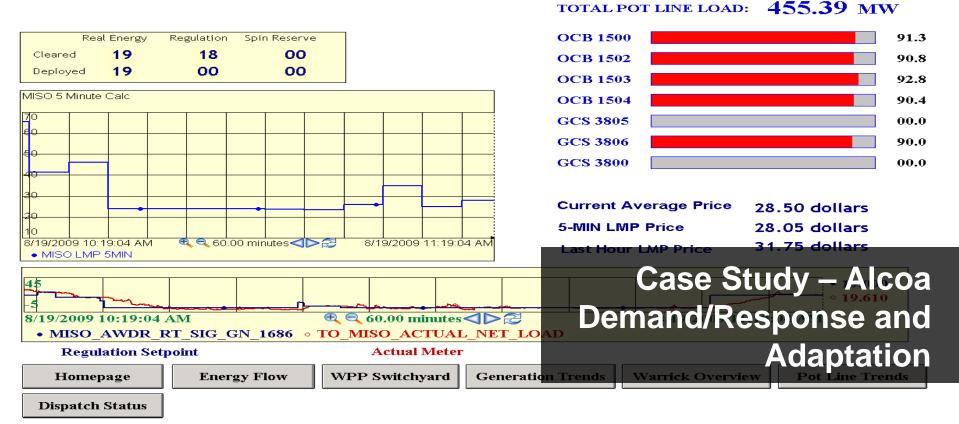
- Display of **real-time and historical data**
  - Process representation
  - **Trend** with traces
  - Context management with PI AF
- Allow for **process monitoring** and review of problematic events

PI DataLink
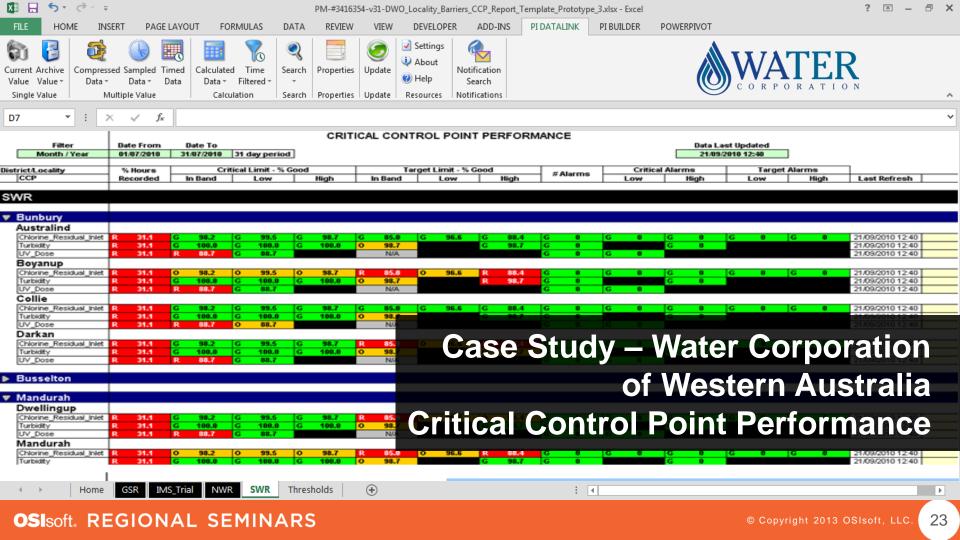
- Allows **summary calculations** and **filtering** of the data
- Enhances PI System Data with access to **Microsoft Excel reporting** features

PI DataLink 2013 & Microsoft Excel 2013

- **PI DataLink 2013**
  - **PI AF** support with the new **PI System Search** engine
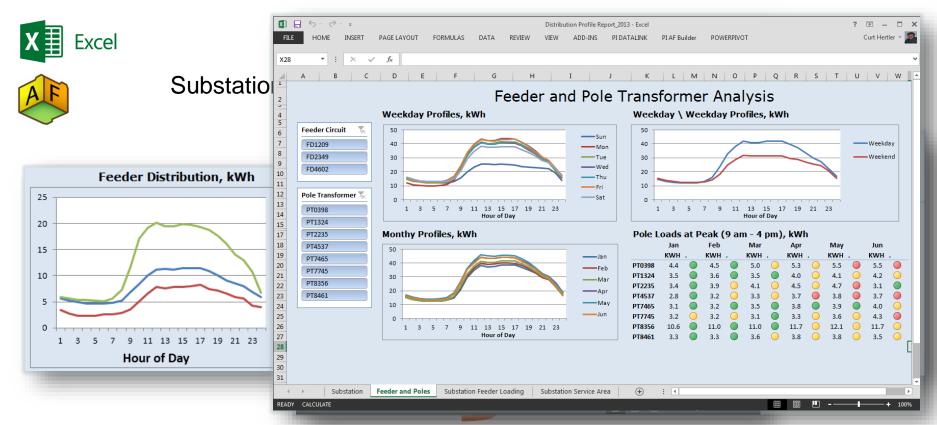
- **Microsoft Excel 2013**
  - Business Intelligence (BI) tools are integrated
  - Microsoft **PowerPivot**
  - Microsoft **Power View**
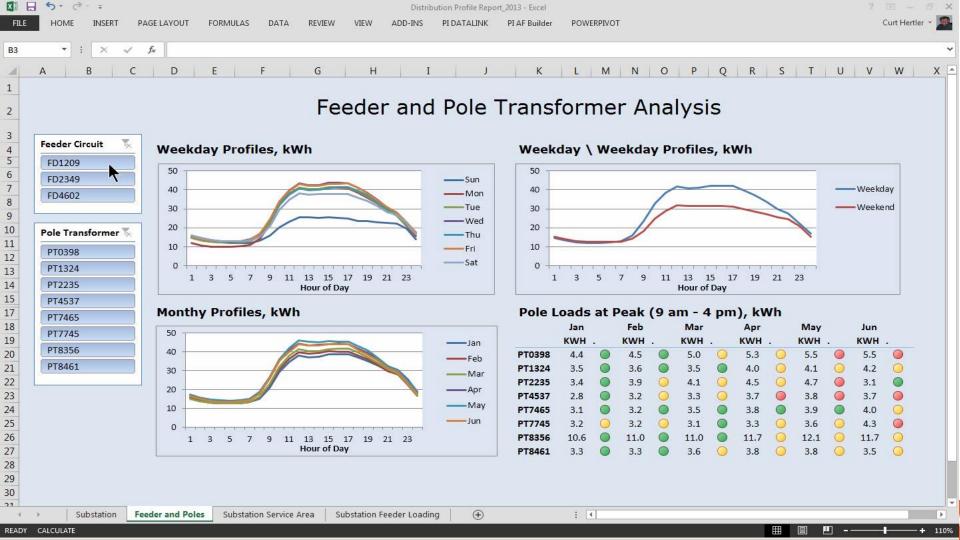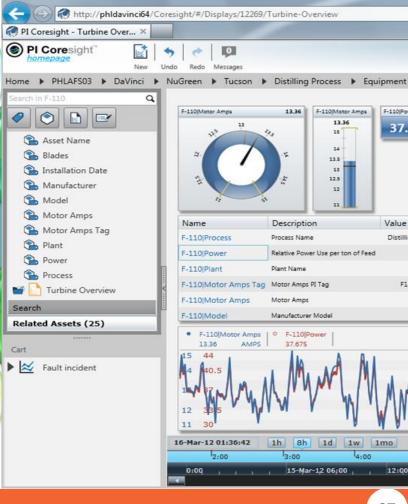
Demand Profiling and Grid Analysis

FILE   HOME   INSERT   PAGE LAYOUT   FORMULAS   DATA   REVIEW   VIEW   ADD-INS   PI DATALINK   PI AF Builder   POWERPIVOT   Curt Hertler

B3

Feeder and Pole Transformer Analysis

Feeder Circuit

FD1209
FD2349
FD4602

Pole Transformer

PT0398
PT1324
PT2235
PT4537
PT7465
PT7745
PT8356
PT8461

Weekday Profiles, kWh

Legend: Sun, Mon, Tue, Wed, Thu, Fri, Sat

Monthy Profiles, kWh

Legend: Jan, Feb, Mar, Apr, May, Jun

Weekday \ Weekday Profiles, kWh

Legend: Weekday, Weekend

Pole Loads at Peak (9 am - 4 pm), kWh

	Jan KWH	.	Feb KWH	.	Mar KWH	.	Apr KWH	.	May KWH	.	Jun KWH	.
PT0398	4.4	🟢	4.5	🟢	5.0	🟡	5.3	🟡	5.5	🔴	5.5	🔴
PT1324	3.5	🟢	3.6	🟢	3.5	🟢	4.0	🟡	4.1	🟡	4.2	🟡
PT2235	3.4	🟢	3.9	🟡	4.1	🟡	4.5	🟡	4.7	🔴	3.1	🟢
PT4537	2.8	🟢	3.2	🟡	3.3	🟡	3.7	🔴	3.8	🟡	3.7	🔴
PT7465	3.1	🟢	3.2	🟡	3.5	🟢	3.8	🟢	3.9	🟢	4.0	🟡
PT7745	3.2	🟡	3.2	🟡	3.1	🟢	3.3	🟡	3.6	🟡	4.3	🔴
PT8356	10.6	🟢	11.0	🟢	11.0	🟢	11.7	🟡	12.1	🟡	11.7	🟡
PT8461	3.3	🟢	3.3	🟢	3.6	🟡	3.8	🟡	3.8	🟡	3.5	🟡

Substation   Feeder and Poles   Substation Service Area   Substation Feeder Loading

READY   CALCULATE

PI Coresight

Explore

Report

Collaborate

Share
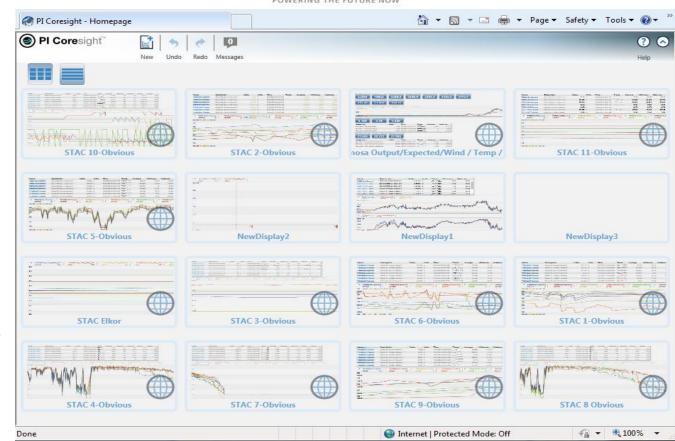
Collect

- **Modern** Web based visualization tool
- Facilitates **ad hoc analysis**
- **Instantaneous learning**
- Software with a **fast release cycle** to fit your needs
- **No client-side installation**
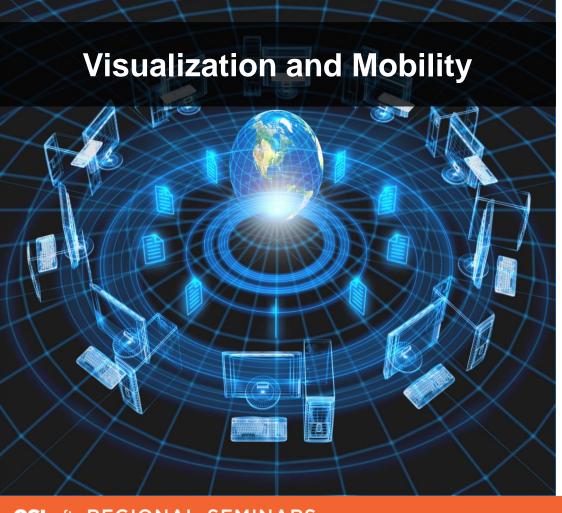
Benefits of PI Coresight at

- **Minimal learning curve**
- Rapid trend analysis
- Leveraging PI AF structure and data

RockTenn Insight for Operators

"*Operators are afraid of full blown PC Applications, PI Coresight will give them easy to use ad hoc capabilities.*"
– Matt Corcoran, RockTenn

Visualization and Mobility

Your needs are evolving:

- **Remote** access
- Access at **any time**
- **Self-service** usage

Mobility and the PI System

- Mobile **PI Coresight** application for the **iPad** and the **iPhone** now available!
  - Native application
  - Free download on the Apple App Store™
  - Test it now with **sample data**

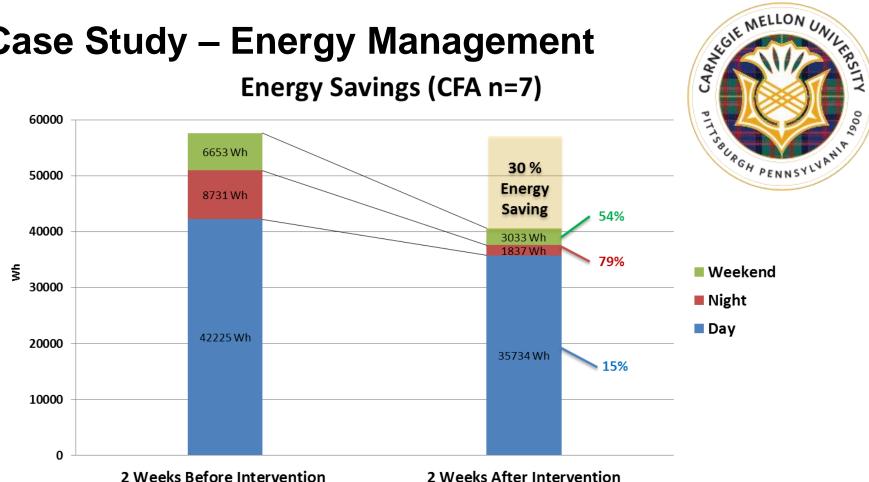Case Study – Carnegie Mellon Energy Management

Case Study – Carnegie Mellon Energy Management

Case Study – Energy Management

Energy Savings (CFA n=7)

Support the Devices you Use

How can you tell now what every team member will use…
       tomorrow…
              next week…
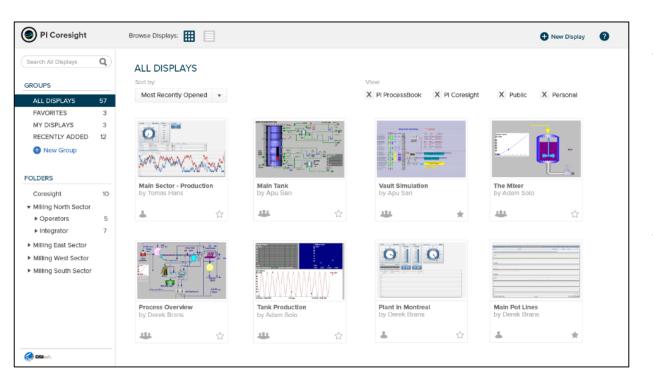   **especially** next year!

Collect Data with Different Devices

- Browser interface is device agnostic

- Simplified screen

- Android phone & tablet

- iPhone and iPad

- Any modern browser (**HTML5** support)

View PI ProcessBook Content on Different Devices

- **Browse PI ProcessBook displays** the same way as PI Coresight

- Any modern browser (**HTML5** support)

PI Visualization Suite Benefits

- Access to the data in the format you want **reduces the time to insight**

- Access to the data when and where you want **facilitates collaboration and sharing of insights**

- **All** visualization tools to **any** user gives **the right tool** for the job **at the right time**

PI ActiveView
PI BatchView
PI WebParts
PI Coresight
PI ProcessBook
PI Manual Logger
PI DataLink
PI Visualization Suite

Questions

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

State your
name & company

Operational Insights
Enterprise Wide

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YOU

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Field Service Engineer

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