# OSIsoft 中国技术交流会

PI SYSTEM

itPI 系统发掘企业数据蕴藏的无限潜能

# ProcessBook, DataLink & RtWebParts: 新功能

李捍永 & Felicia Tan, 技术工程师

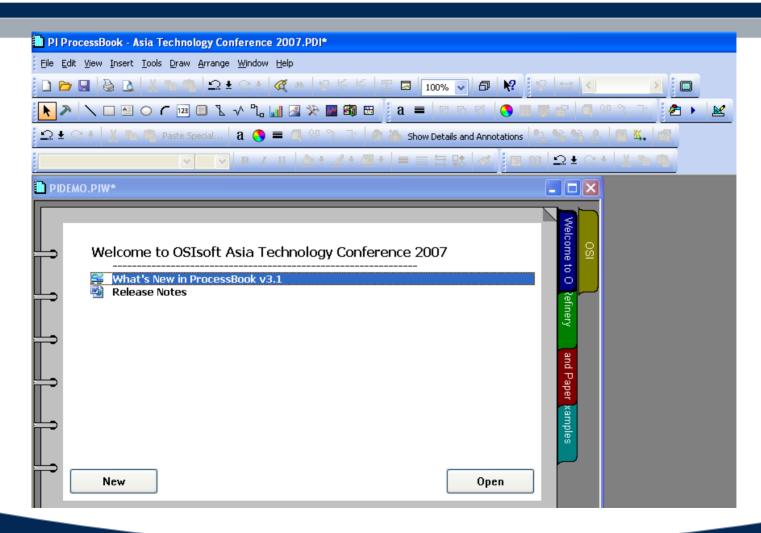
# Agenda

- ProcessBook
- DataLink and DLES
- RtWebParts

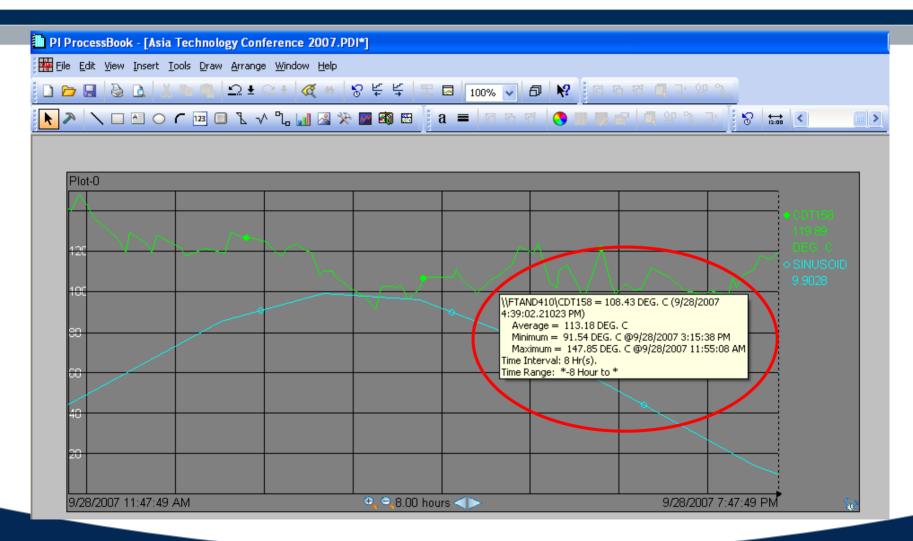
# PB 3.0: Richer Experience

- More data and more types of data
  - Sub-second time
- Highlight attributes about data events
  - Questionable, Substituted, Annotated
- XY Plot with data pairing options
- Client time Vs Server time
- Allow user's domain login
- Non-intrusive error reporting

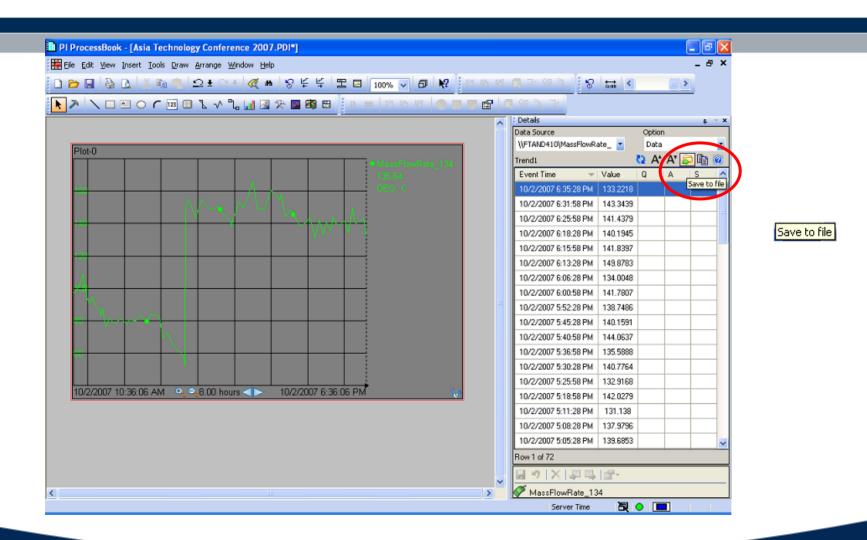
### New Look PB 3.1



# **Tooltips Statistics**



### **Details**



### And the rest

- Hide individual traces on a trend
- New Formatting toolbar and Format painter toolbar
- Improved performance and support for very large displays
- AF modeler installed by default

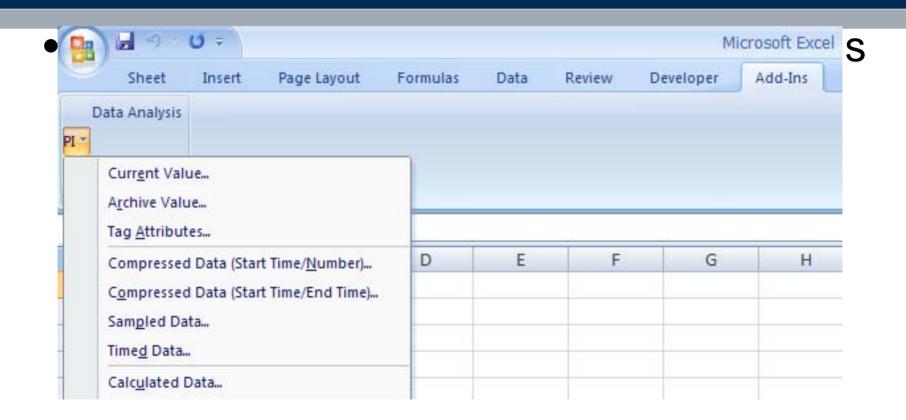
## DataLink

### Excel 2007 & MOSS

- Excel 2007
  - Datalink is supported

- Microsoft Office Sharepoint Server (MOSS)
  - Datalink for Excel Service (DLES)

## Current Datalink in Excel 2007



# Current Excel usage



**Sharing Spreadsheet** 







### With Excel 2007 and Excel





Publish Spreadsheets

> Office SharePoint Servers

View and Interact



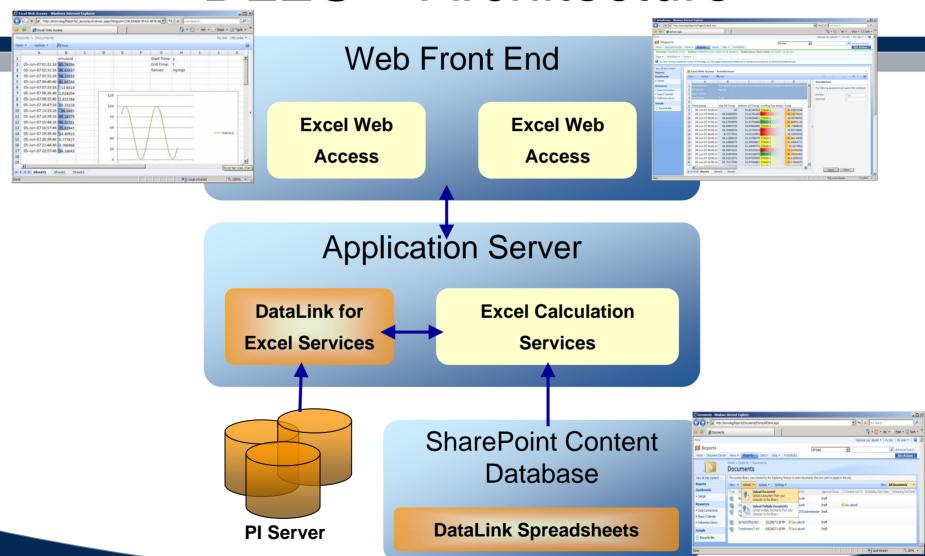
**Browser** 

Programmatic Access





# DLES – Architecture

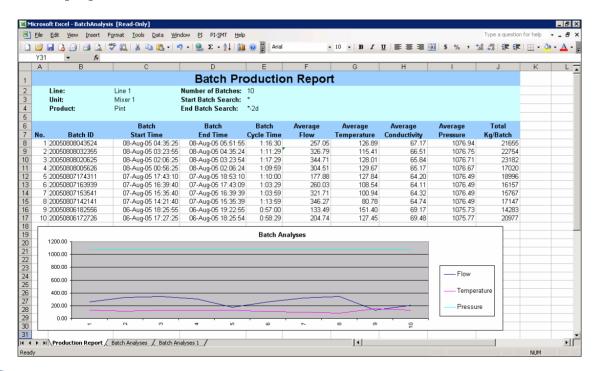


# Demo Video



### Current feature of DLES

- Support for DataLink functions
- Support for BatchView functions



# DLES – System Requirements

#### Server

- Windows Server 2003
- Office SharePoint Server 2007
  - Enterprise edition only (MOSS)
- SQL Server
  - 2005, Express, or 2000
- PI Server 3.3 or higher

#### Excel Client

- Excel 2007, or
  Excel 2003/XP/2000 with free
  Office 2007 Compatibility Pack
- DataLink Add-In, or BatchView Add-In

#### Web Client

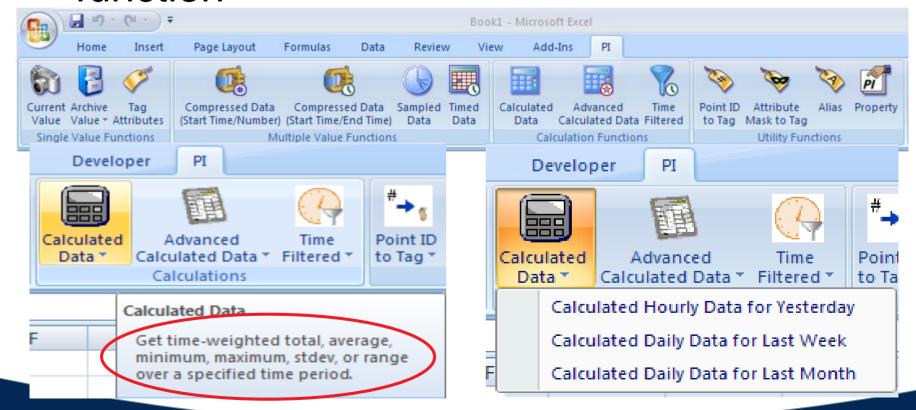
- Internet Explorer 6 or 7, or other standard Web browser
- [Optional] Excel 2007, or
  Excel 2003/XP/2000 with free
  Office 2007 Compatibility Pack

# What's Coming

- Current DataLink Function with new experience
- Publish spreadsheet on the website (DLES)
- New data formatting features
- Increased limits
  - More data 1M rows by 16K cols
- Improved performance
  - Faster, multi-threaded Excel calculation engine

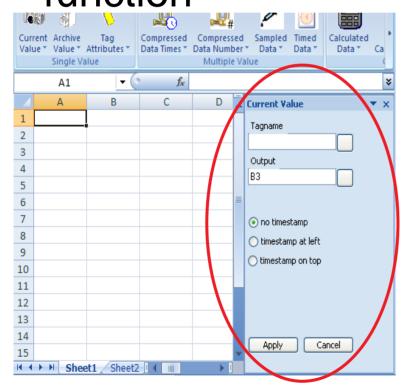
### New UI in Excel 2007

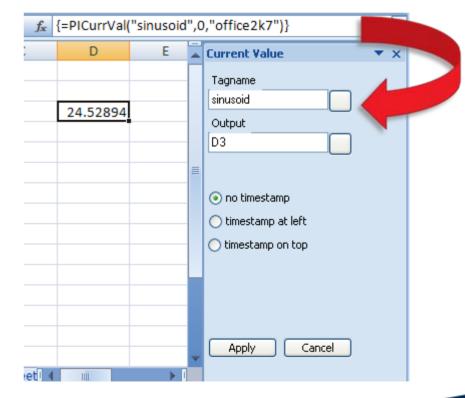
 Ribbon makes it easier to find the right function



### New UI in Excel 2007

Task pane makes it easier to modify a function





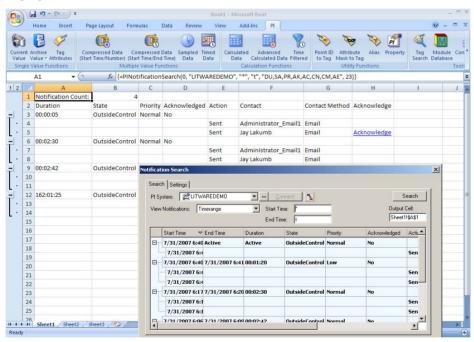
# Formatting Features in Excel 2007

 Reports and tables are visually pleasing and provide instant feedback to find relevant data

6		Timestamp	Top Oil Temp	Bottom Oil Temp	Cooling Fan Status	Load
8		06-Jun-0710:56:17	82.06562805	5 🦊       52.39182663 <mark>:</mark>	STAGE 1	<mark>20</mark> .23855972
9	ı	06-Jun-07 09:56:17	82.3996582	2 🔷     53.36613464 <mark>:</mark>	STAGE 1	21.20740128
1	0	06-Jun-07 08:56:17	84.5425415	53.63465118	STAGE 2	20.74373055
1	1	06-Jun-07 07:56:17	82.96215057	7 🔷     53.04167938 <mark>:</mark>	STAGE 1	20.51634407
1:	2	06-Jun-07 06:56:17	84.37345886	5 🔷 53.7178154 <mark>:</mark>	STAGE 1	<mark>20</mark> .11353683
1	3	06-Jun-07 05:56:17	86.36122131	52.98049164	OFF	20.6163578
1	4	06-Jun-07 04:56:17	85.26107788	3 🔷 52.96185684	OFF	19.67745018
1	5	06-Jun-07 03:56:17	83.11886597	7 👚     54.72557449 <mark>:</mark>	STAGE 1	19.84714508
1	6	06-Jun-07 02:56:17	81.49597168	3 🦊   52.21590424 :	STAGE 1	19.99525833
1	7	06-Jun-07 01:56:17	82.89220428	3 🛖 54. 4969635 🏻	OFF	20.74225426

### **New Feature**

Support for PI Notifications



# RtWebParts

### What is RtWebParts?

RtWebParts – PI on the Web



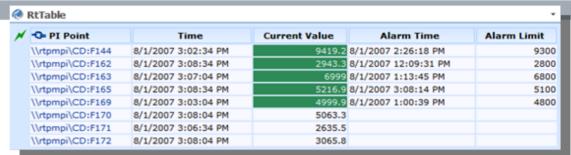


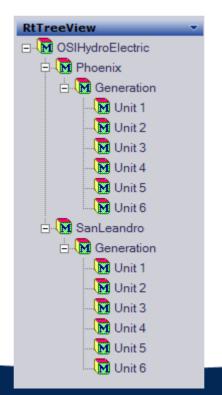


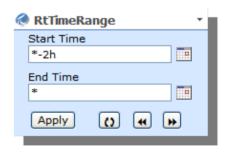
- Relies on the Microsoft SharePoint Portal Platform
- Gets Data from RtBaseline Services

# Looking at RtWebParts

- RtTimeRange
- RtTreeView
- RtTable
- RtTrend
- RtGauge
- RtXYPlot
- RtValues etc

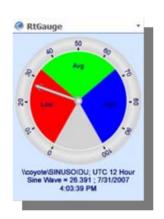


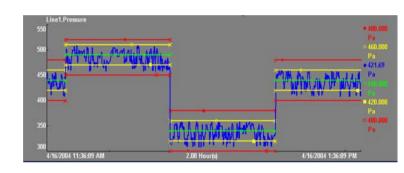


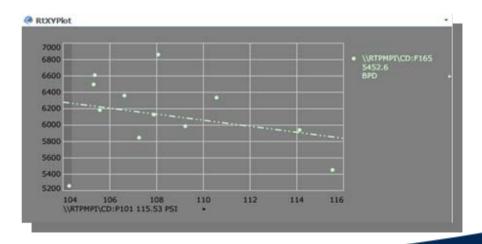


# Looking at RtWebParts

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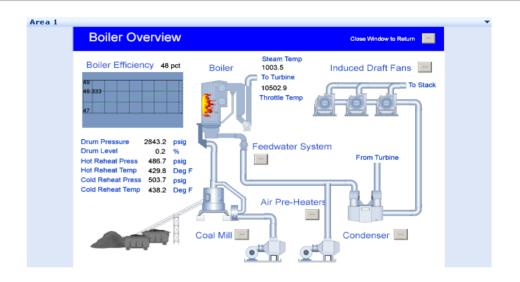






# Leveraging ProcessBook

- RtGraphic
  - SVG-Based
  - Lightweight
- RtActiveView
  - Supports PDIs
  - Requires ActiveView License & Installation



# What's new (in RtWebParts v1.2)?

- Released January 10, 2007
  - High Availability
  - Expensive Query Handling
  - Complex Web Service Support
  - RtGraphic Support for Multistate Symbols
  - Japanese Language Pack

# What's new (in RtWebParts v2.0)?

- Released June 21, 2007
- MOSS!
  - Workflow
  - Content Management
  - Excel Web Access WebPart
- New Ad hoc Trend (URL-Configurable)

### What's next?

- RtWebParts v2.1
  - Contextual Web Part for Batch Searching
  - Tabular Web Part Enhancements
- RtWebParts v2.2
  - AF 2.0
  - PI Notifications
  - Language Packs

# Requirements

- Microsoft Windows 2003 Server SP1 or greater.
- Microsoft Internet Information Server (IIS) 6.0 with Windows Script Host (WSH) enabled.
- Microsoft .NET framework 3.0 and ASP.NET 2.0 enabled
- Windows SharePoint Services 3.0 or Microsoft
  Office SharePoint Portal Server 2007
- SQL Server 2000 or MSDE
- Access to PI server 3.3x

# The End