OSIsoft®

USER CONFERENCE

2008

AMSTERDAM

Empowering Business in **Real Time.**

PI Infrastructure for the Enterprise.

Facilitating the Creation of Dynamic Office Business Applications

Paul Kaiser
Prabal Acharyya

OBA

- Office Business Application (OBA)

  > *"Office Business Applications are a new breed of application that help businesses unlock the value of their line-of-business (LOB) systems and turn document-based processes into real applications."*

  – Microsoft OBA FAQ

- Using Microsoft Office to build an application that eases access to a Line-of-Business (LOB) system.
- Applying Office to organize ad-hoc efforts into processes.

Microsoft Office System

- **On the Desktop**
  - Access
  - Accounting
  - Communicator
  - Excel
  - Groove
  - InfoPath
  - OneNote
  - Outlook
  - PowerPoint
  - Project
  - Publisher
  - SharePoint Designer
  - Visio
  - Word

Microsoft Office System

- On the Server
  - Communications Server
  - Forms Server
  - Groove Server
  - PerformancePoint Server
  - Project Portfolio Server
  - Project Server
  - SharePoint Server

DOBA

- Dynamic Office Business Application (DOBA)
- PI + OBA = DOBA

While documents can be extended with access to line-of-business data independent of Office SharePoint Server, more often than not, OBAs involve Office SharePoint Server. – Microsoft OBA FAQ
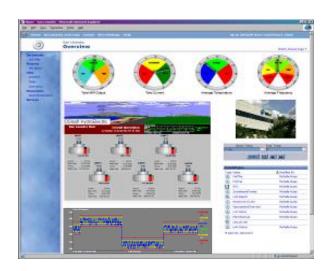
What is SharePoint?

- SharePoint is a Platform for Collaboration
  - Windows SharePoint Services version 3.0 (WSS)
  - Microsoft Office SharePoint Server 2007 (MOSS)
- Formerly…
  - SharePoint Portal Server 2003 (SPS)
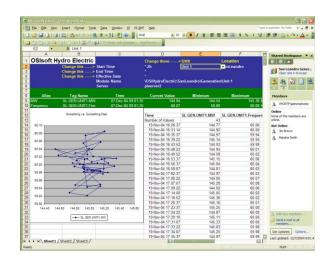 - SharePoint Team Services 2001 (STS)

Facilitating DOBA Construction

- **Industry-standard Data Access Mechanisms**
  - PI OLEDB Provider
- **User Interface Components**
  - RtWebParts
- **Office Add-Ins**
  - DataLink

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MOSS Features to Consider

- Business Data Catalog (BDC)
- Web Parts
- Excel Services
- Enterprise Search

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Business Data Catalog

- **Integrating Business Data Without Writing Code**
  - Relational Sources
  - Web Services
- **Application Definition File**
  - LOBSystem
    - Entity
      - Identifiers, Methods, Actions
- **Surface Data**
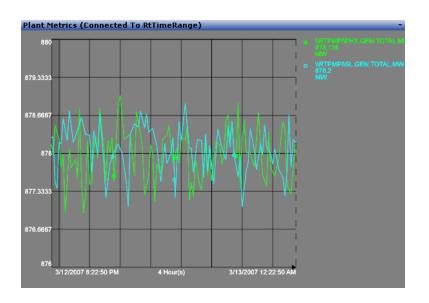 - Web Parts
  - Lists
  - User Profiles
  - Search

Web Parts

- User Interface Building Blocks
- Not Limited to SharePoint
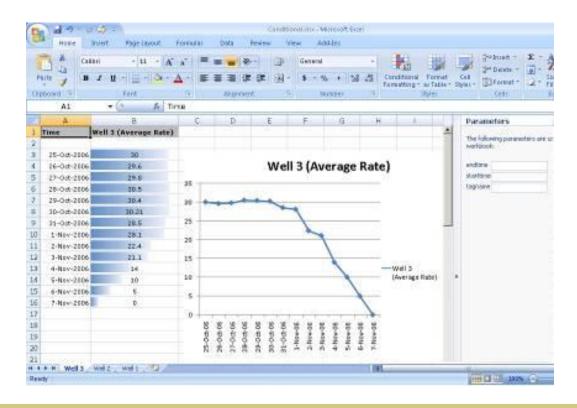- Connectable
- User-Customizable

Excel Services

- "One version of the truth."
- Programmatic Interface
- Excel Web Access (EWA) Web Part

Enterprise Search

- *Integrated* into MOSS
- Customizable User Interface
- Search Connectors
  - Indexing Connectors
  - iFilters
  - Federated

Unified Communications

- Fax
- Email
- Presence
- Voice Mail
- Calendaring
- Telephone / VoIP
- Instant Messaging / Chat
- Audio & Video Conferencing
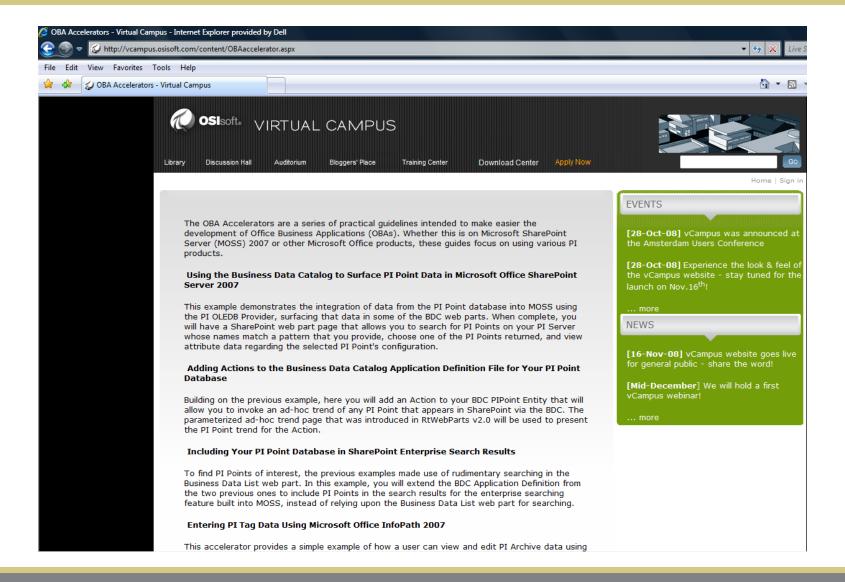
- http://www.microsoft.com/uc

PerformancePoint

- Business Intelligence
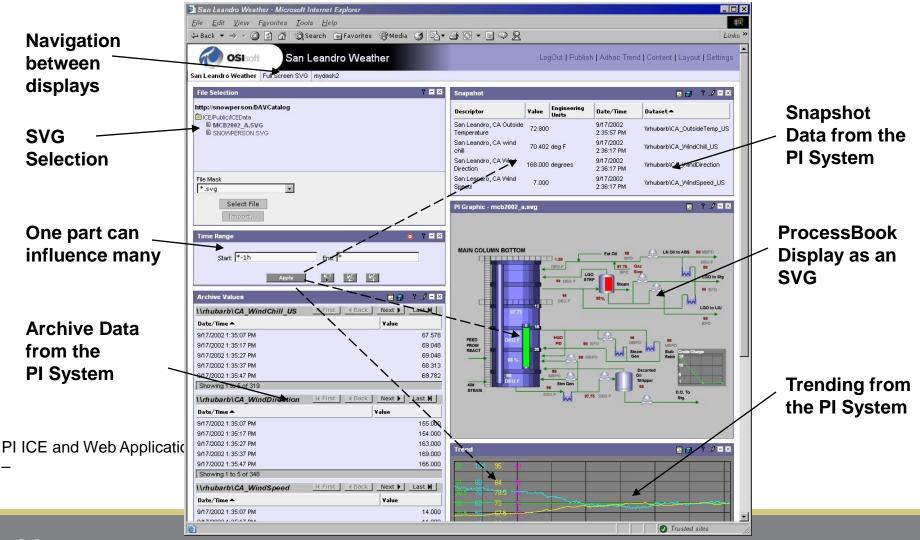- Monitor – Analyze – Plan
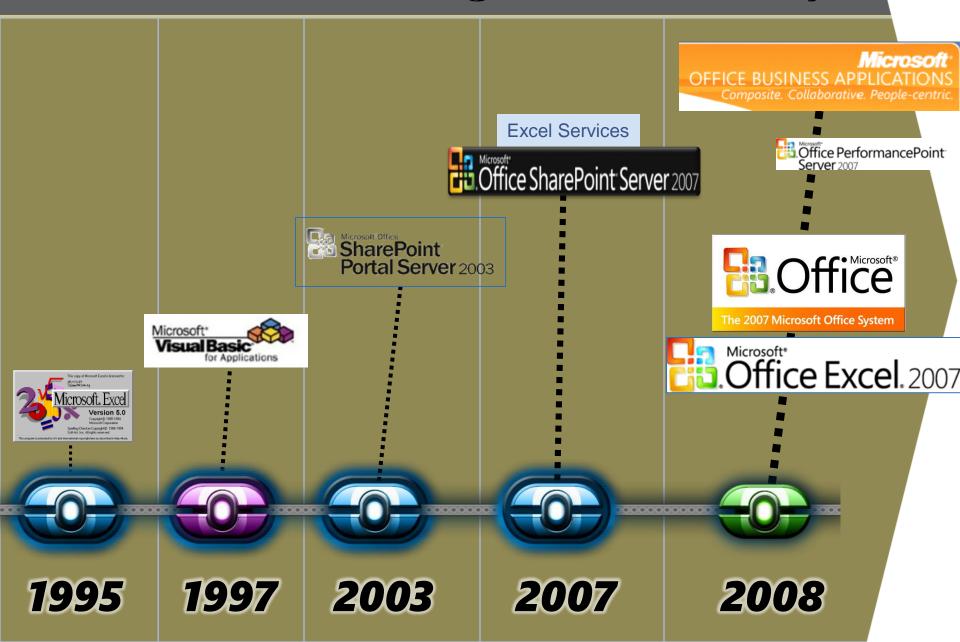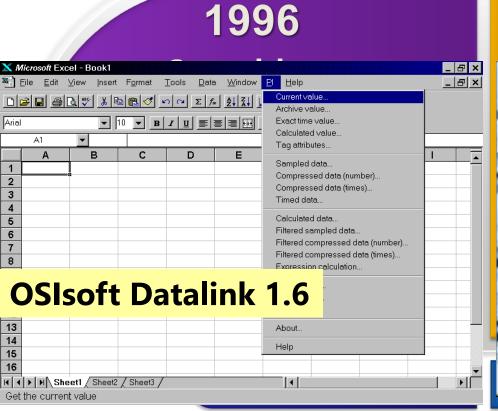- Key Point: Data Availability

Dynamic OBA Delivery via vCampus

SharePoint & OSIsoft
Year 2001 : Product: PI ICE 1.0
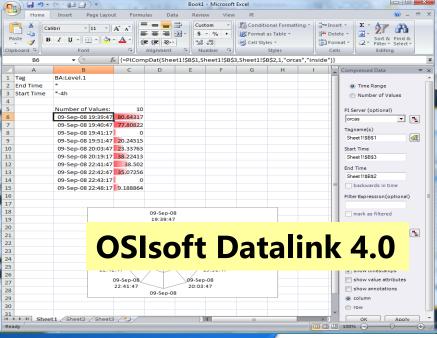

Navigation between displays

SVG Selection

One part can influence many

Archive Data from the PI System

Snapshot Data from the PI System

ProcessBook Display as an SVG

Trending from the PI System

PI ICE and Web Applicatic
–

OSIsoft Office Integration History

Excel Services

1995   1997   2003   2007   2008

Office System & OSIsoft

1996

OSIsoft Datalink 1.6

Today

OSIsoft Datalink 4.0
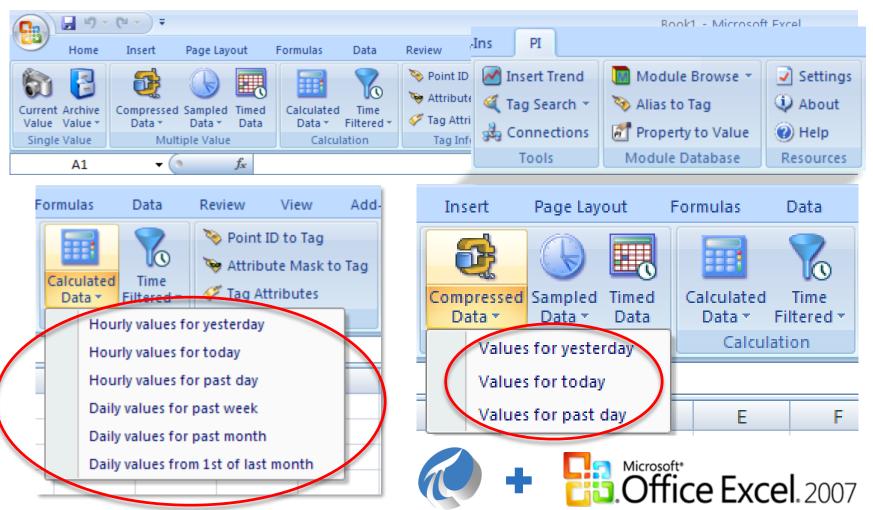
Integrated Clients	Integrated Clients, Servers and Services
Standalone Releases	System Release

DataLink 4.0 UI in Excel 2007

- **Ribbon makes it easier to find the right function**

ConocoPhillips

Bridge the gap between onshore and offshore operations

Customer Business Challenge

ConocoPhillips North Sea needed a way for onshore and offshore employees to collaborate in real-time.

They also needed to display real-time production data in a consolidated view without having to refresh.

Solution

ConocoPhillips created a new dynamic work environment called the Onshore Operations Center, using PI analytics with MOSS for real-time collaboration.

PI enterprise infrastructure and SharePoint

Customer Results / Benefits

Now employees have a consolidated view of data into real-time production, and can communicate more efficiently.

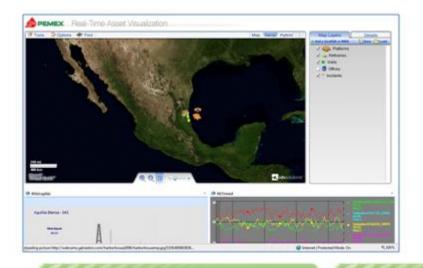High-level visibility into operations data facilitates collaboration and decision-making.

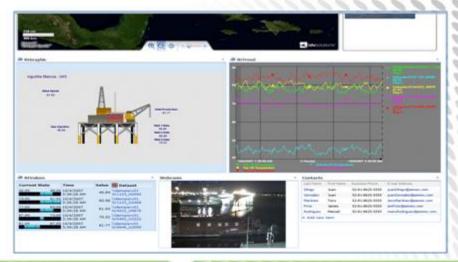With centralized data access, the company no longer has version control problems.

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Increase operational efficiency

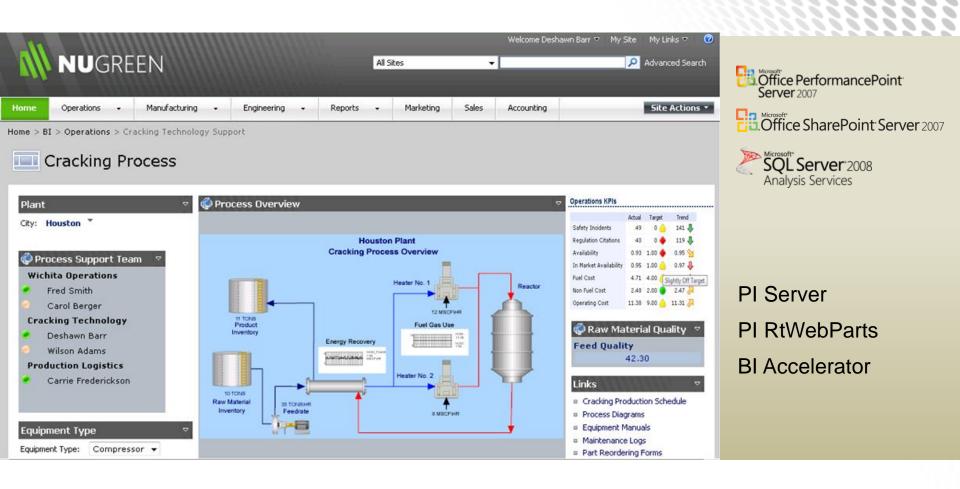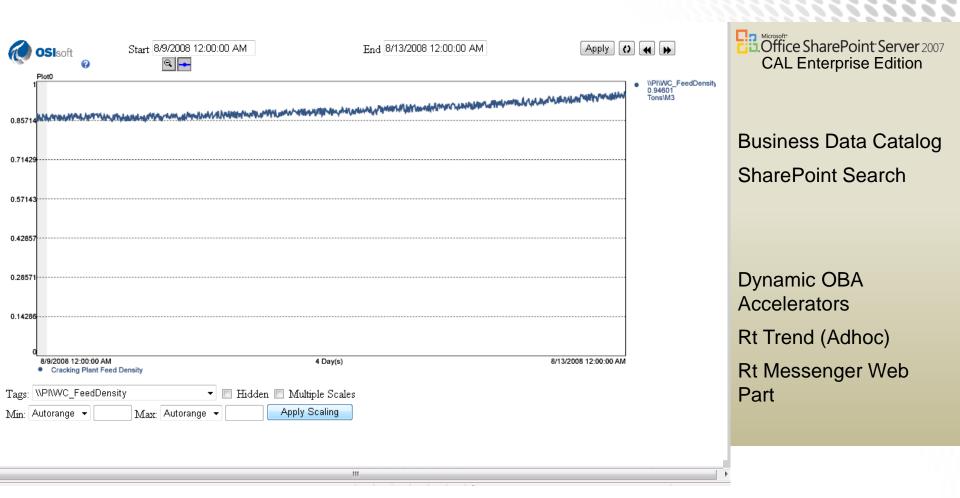| Customer Business Challenge	Solution	Customer Results / Benefits
Pemex needed a common infrastructure to integrate data and provide real-time monitoring of pipelines. With four separate business divisions, they needed a better way to evaluate operational efficiency and support decisions in case of accidents.	Pemex used OSIsoft technologies to integrate information from disparate systems in their Exploration & Production, Refineries, Gas and Petrochemicals divisions. They were then able to see one real-time version of the entire pipeline system. Virtual Earth (with IDV Solutions), PI, SharePoint and SQL	Now employees monitor different applications more efficiently from a single system. The safety and integrity of hydrocarbon transportation systems are greatly improved. The system provides real-time data across the pipeline value chain—from wellhead to end users.

Streaming BI with PI & PerformancePoint Server 2007

PI Server

PI RtWebParts

BI Accelerator

PI and SharePoint BDC / Search

Microsoft Office SharePoint Server 2007
CAL Enterprise Edition

Business Data Catalog

SharePoint Search

Dynamic OBA Accelerators

Rt Trend (Adhoc)

Rt Messenger Web Part

References

- General OBA Reference: http://www.microsoft.com/oba

- OBA FAQ: http://office.microsoft.com/en-us/products/HA102200721033.aspx

- OSIsoft: http://www.osisoft.com

- OSIsoft | Microsoft Alliance: http://www.osisoft.com/Microsoft

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