

Enabling Enterprise Visibilitywith RtPortal

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Today's Information Challenges



Employees get 50%-75% of their relevant information directly from other people.



More than 80% of enterprise's digitized information reside in individual hard drives and in personal files.

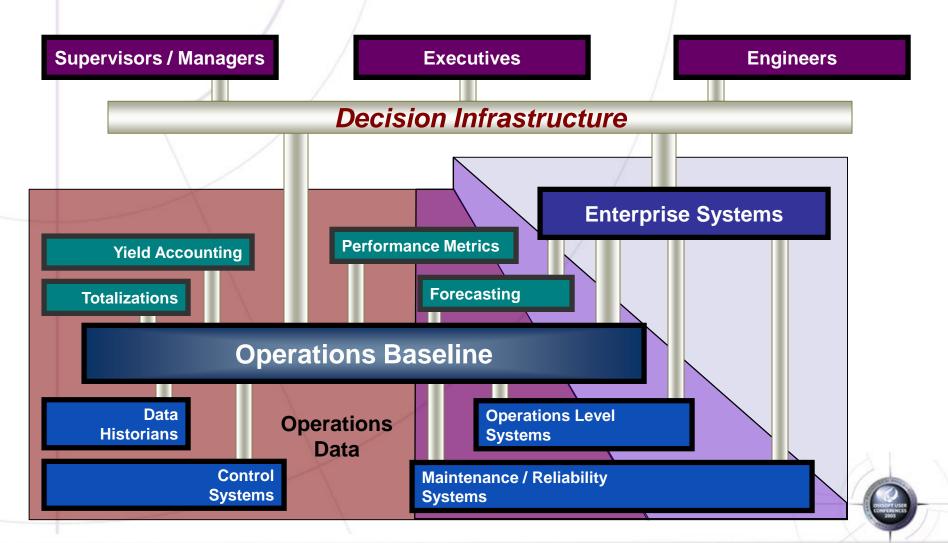


Individuals hold the key to the knowledge economy and most of it is lost when they leave the enterprise.

From "The Knowledge Worker Investment Paradox" Gartner research 7/17/2002



Your Ideal Information Architecture



Real-time Performance Management

Know

Act

Profit



Better

Metrics

- Immediate
- Role Based
- Actionable
- Secure



Smarter Decisions

- Relevant
- Timely
- Available
- Efficient

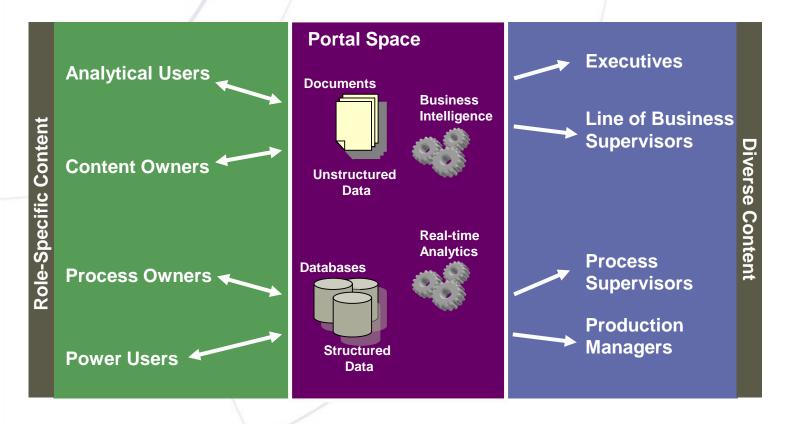


Sustainable Advantage



Where the Portal Fits in the Information Worker's Desktop

Content Creators Content Consumers



Building

Portals Extend the Reach of Information

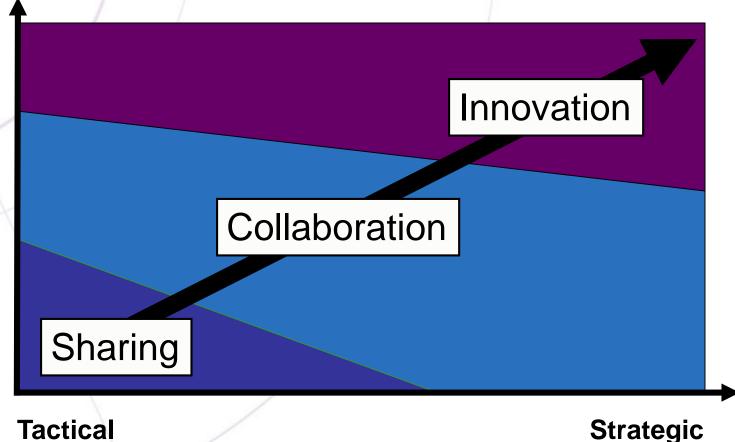
Viewing

Enterprise Portal Benefits

Support of Strategic Direction

Enterprise Effectiveness

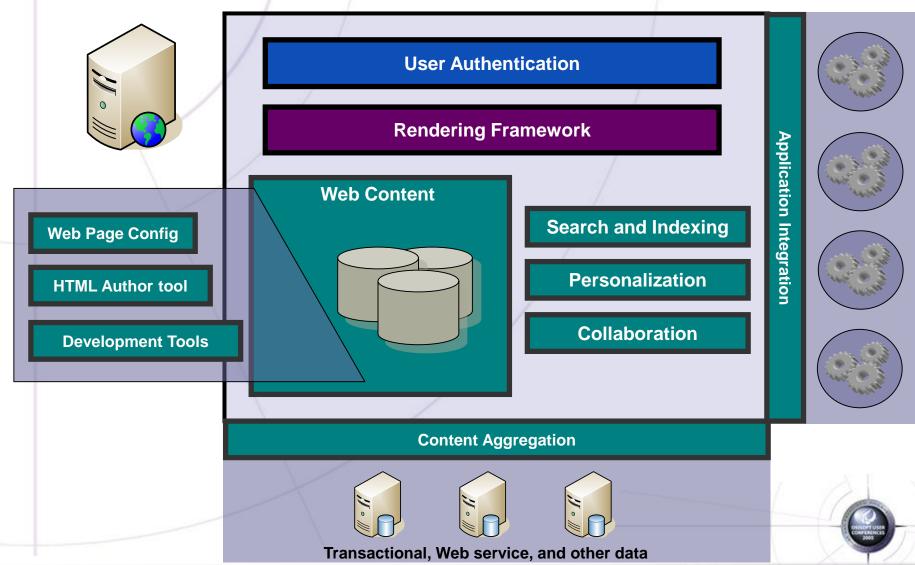
Job Effectiveness



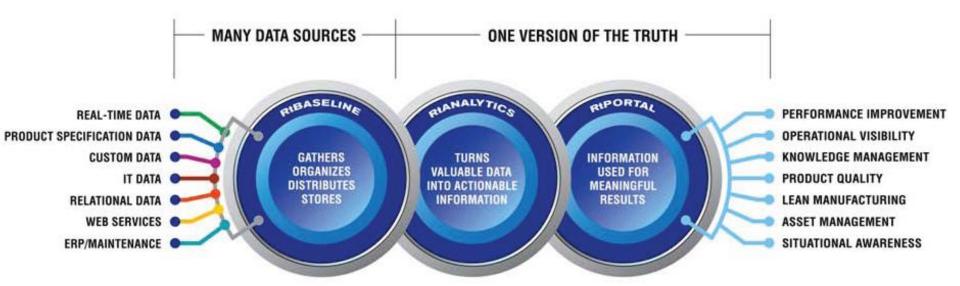
Source: Gartner Research "Justifying an Enterprise Knowledge Management Program"



Portal Framework

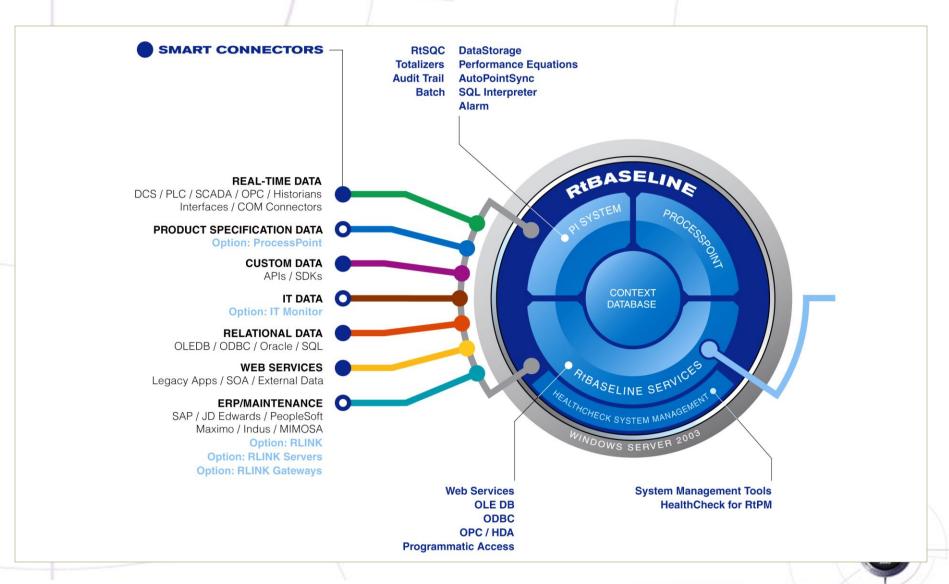


OSIsoft RtPM Platform



The OSIsoft platform provides comprehensive visibility into operations, unlocking the potential for timely analysis –fueling critical, informed and profitable actions.

RtBaseline – Unifying Disparate Data



RtAnalytics – Event-based Operational Metrics

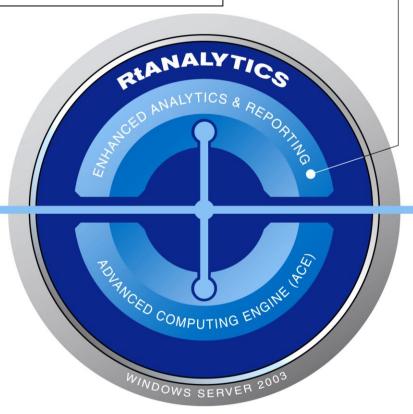
RtAnalytics

- Creates a set of validated, trusted information
- Builds upon PI/RtPM infrastructure
- Enables timely reporting to the business

Sigmafine RtReports Compliance ProcessTemplates Control Monitor

RtBaseline / PI

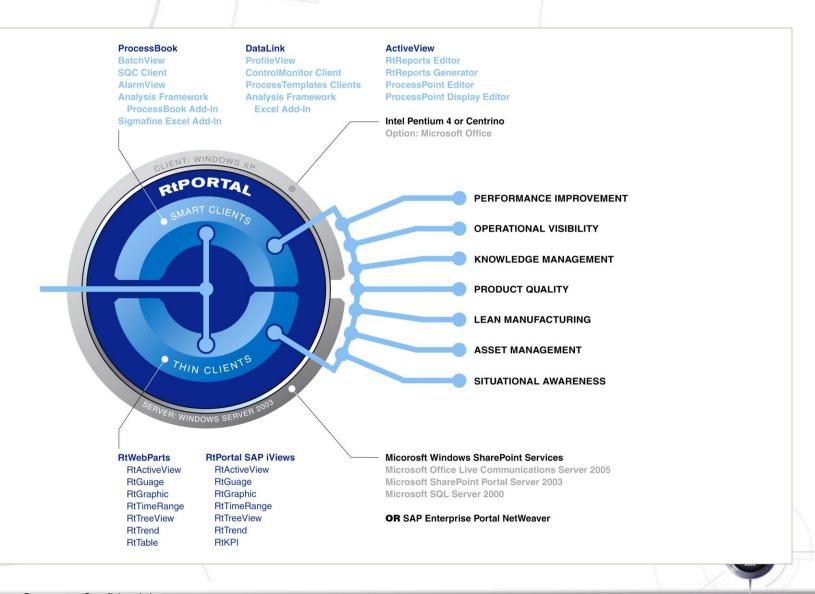
- Source data
- Structure information
- Repository for validated information



RtPortal

- Distribution
- Visualization
- Reporting
- Configuration

RtPortal – Visualization

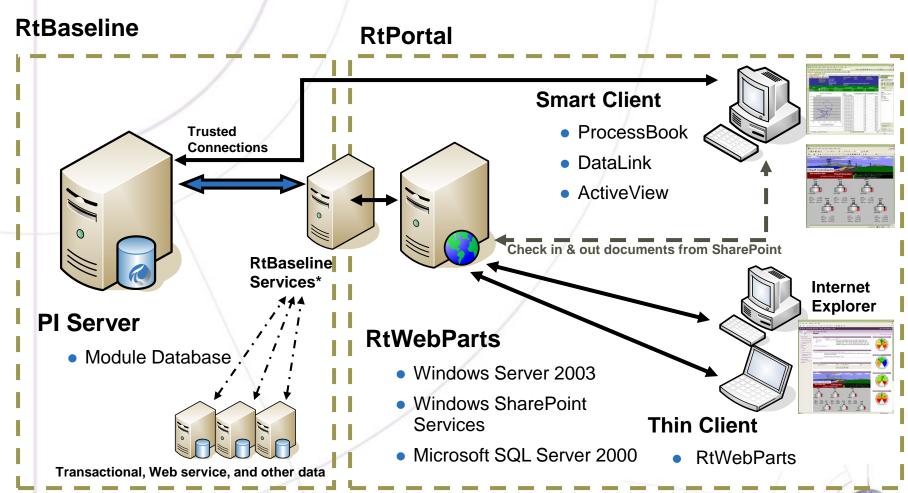


Information Worker Challenges

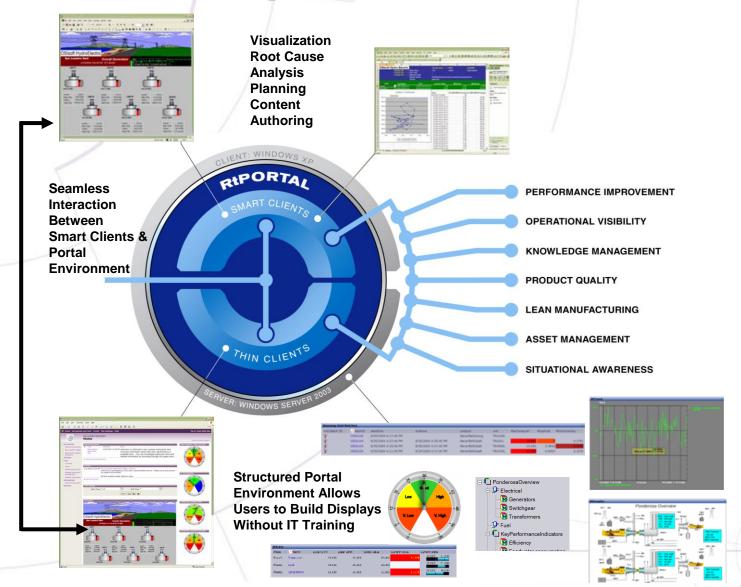
- No 'visibility' into operational performance
 - Slow time to react to market changes
- Many versions of the same data
 - Lack of validated information
- Limited communication & collaboration across businesses
- Little capability to perform knowledge capture or management

Resulting in compromised quality, safety and profitability—and ultimately impacting the corporate bottom line

RtPortal Architecture



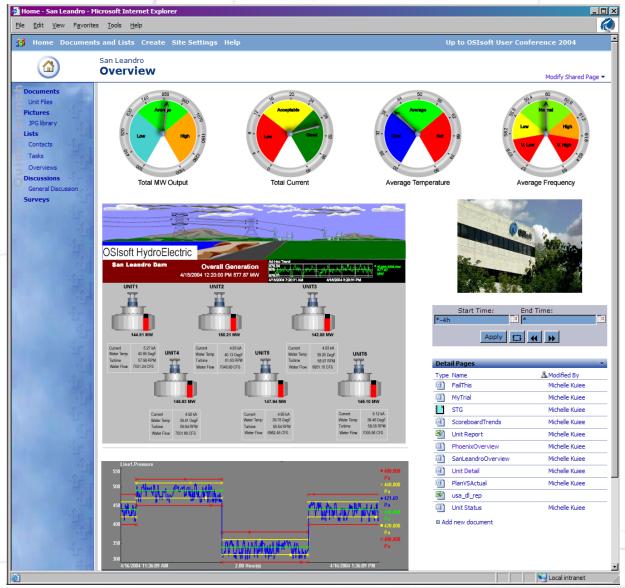
The Portal Experience



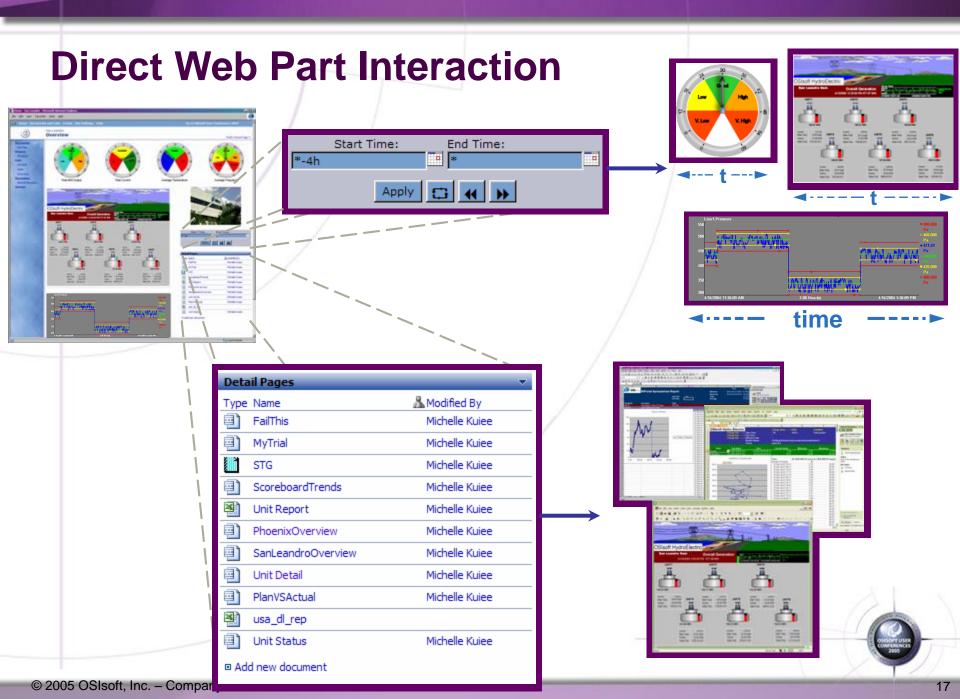


Portal Examples

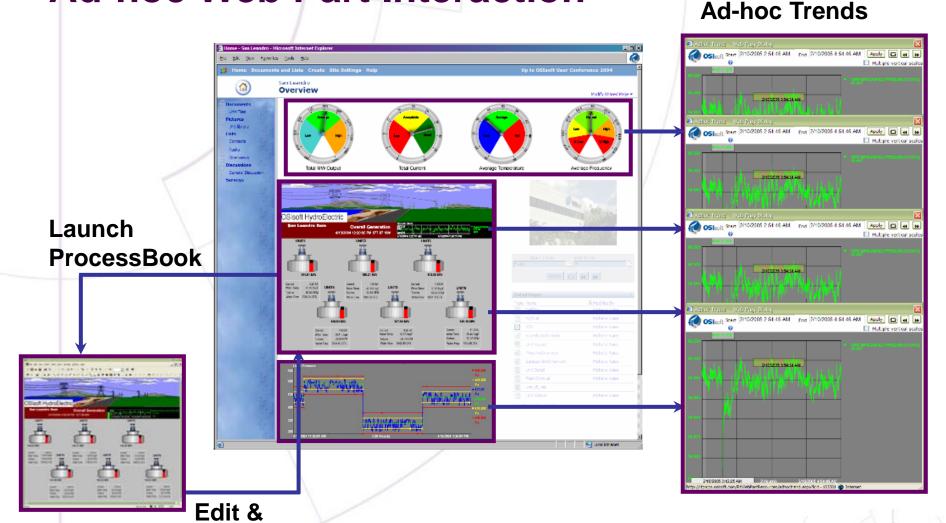
Example #1: A Simple Portal Page







Ad-hoc Web Part Interaction

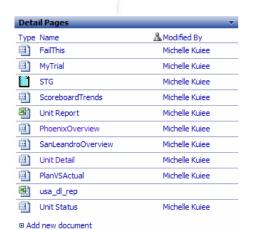


Check In

Document Workflow

 The SharePoint infrastructure lets users collaborate and publish relevant documents into a Document Library

Users can refer to a single, revision tracked environment for documents



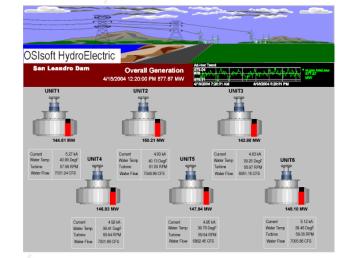






ProcessBook Workflow

- Users can use the same SharePoint document features on ProcessBook displays
- RtWebParts and ProcessBook are tied together so the Web parts reflect the changes made in ProcessBook











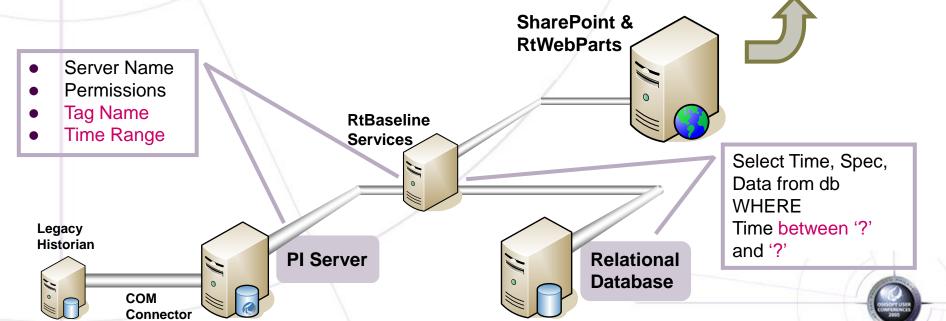




The Data Behind the Trend

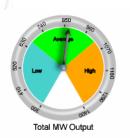
- Trends require time series data
- Each dataset can be from a different source

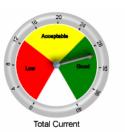


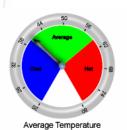


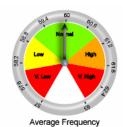
The Data Behind the Gauges

 Use OLEDB, native PI access, and Web services









 Build specific KPI's and calcs for use in gauges







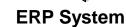




Services



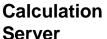




Maintenance System

PI Server







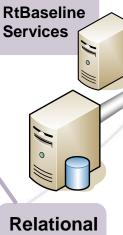


Data Security

- Active Directory Identity
- SharePoint Web Part Security
- SharePoint Roles

- Dataset Permissions
- User Account
- Password

- User security
 - Directory Services
 - Application Security





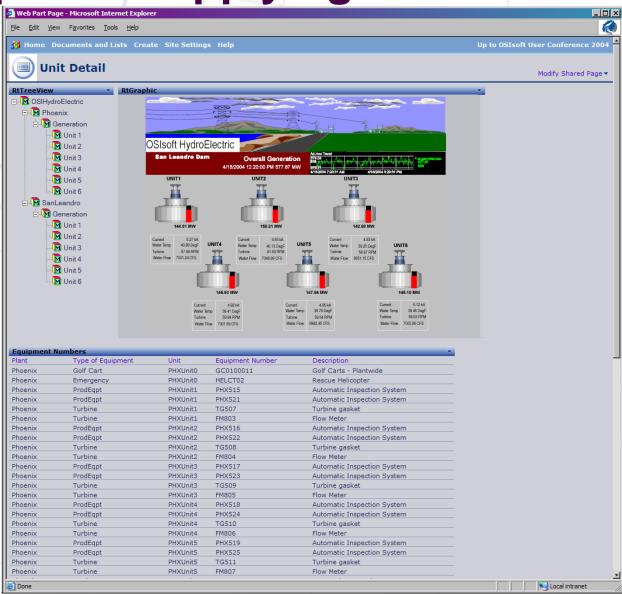


SharePoint & RtWebParts

Relational Database



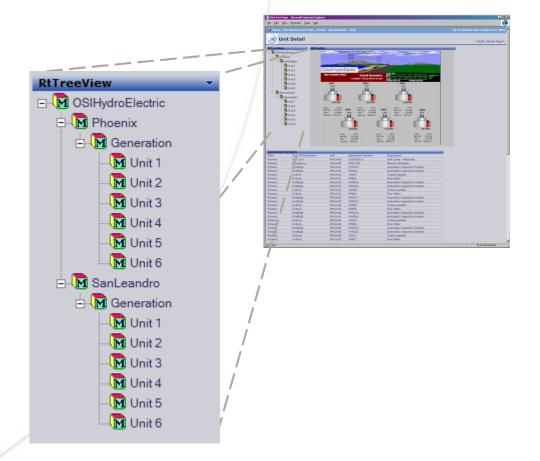
Example #2: Applying Context





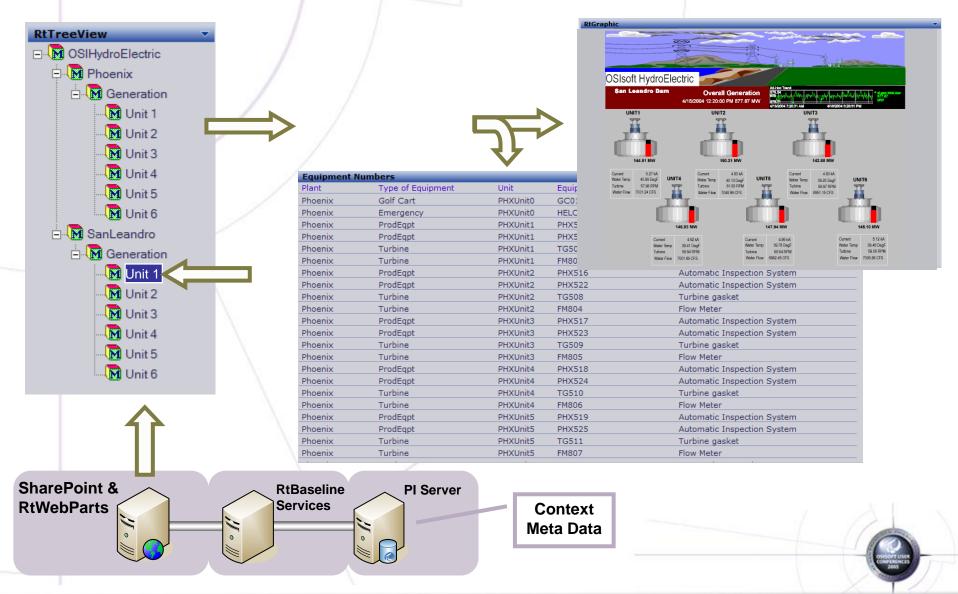
Web Parts Driving Context

- The RtTreeView can drive a page using contextual information
- RtWebParts use the SharePoint connection infrastructure to do inter-part communication

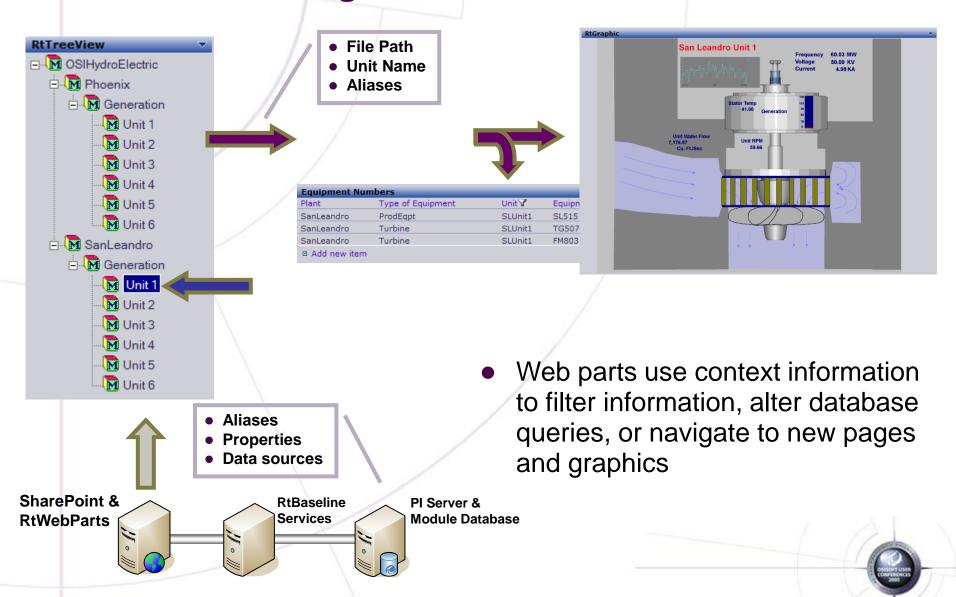




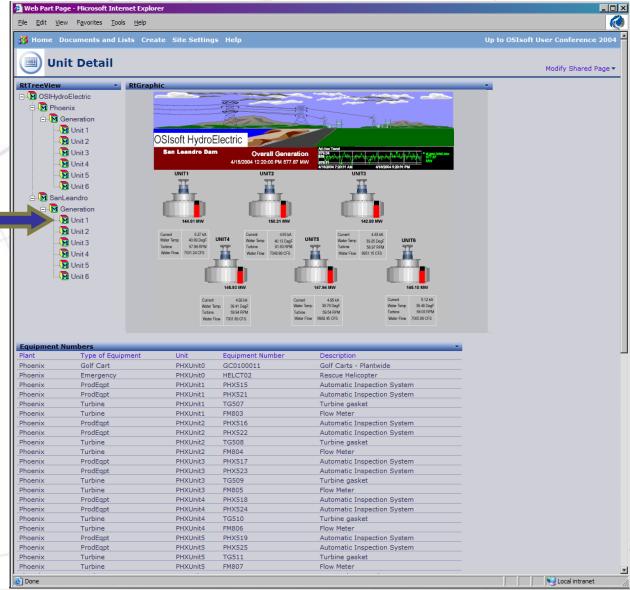
Connections Pass Information



Information Changes to Match the Selection



Before Applying Context

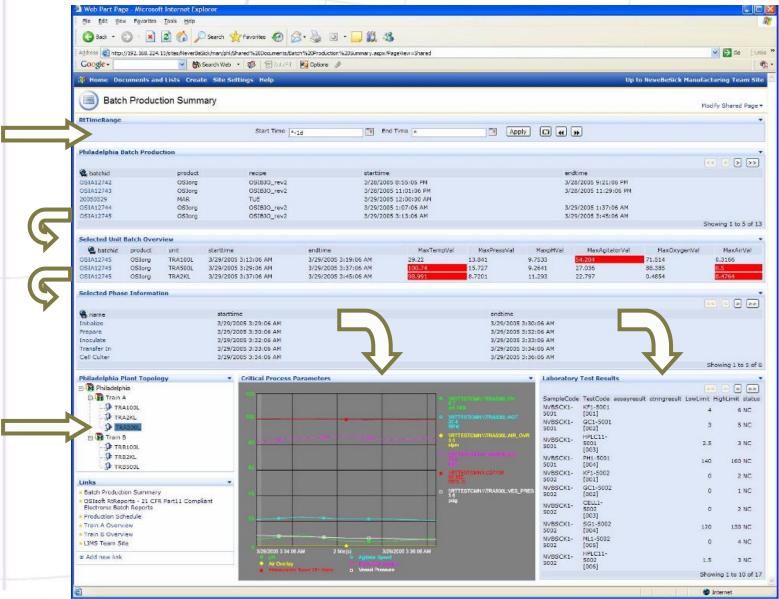




The Resulting Page

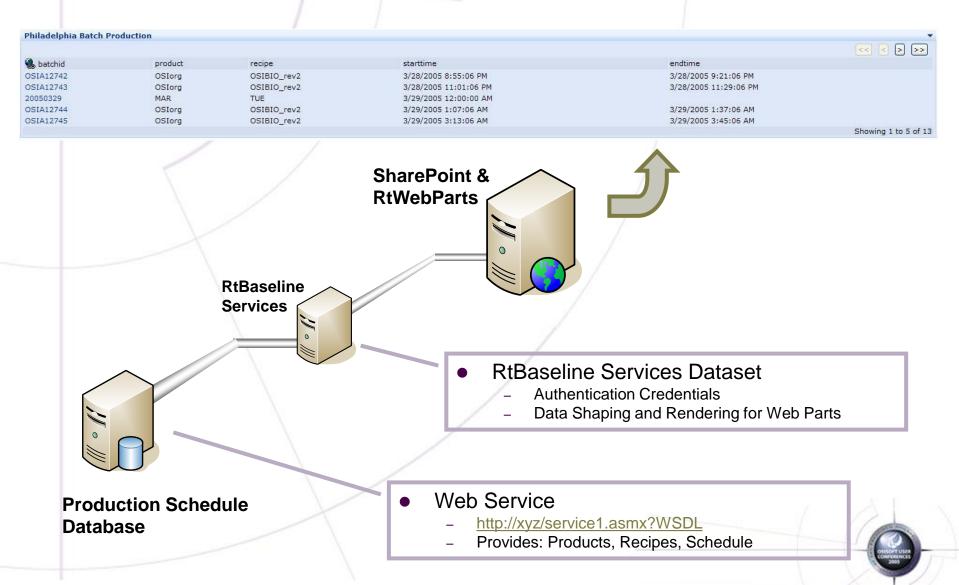


Example #3: Context Between Data Sources

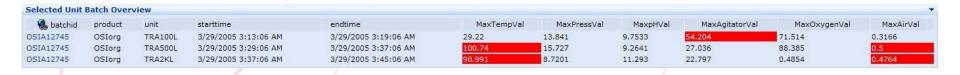


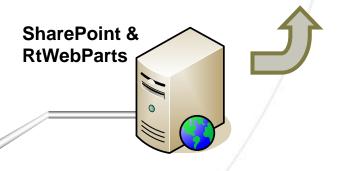


Production Information

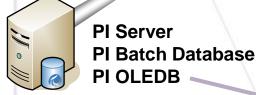


PI Batch Data





RtBaseline Services



- RtBaseline Services Dataset
 - Authentication Credentials
 - Storage of PI OLEDB Query
- Execute PI OLEDB Query
 - SELECT xyz from pibatch where ProductID = '?"...
 - Provides: Specific batch information



The Tale of Two Tables

 Pass a key parameter to another table via SharePoint's Web Part Connections

3/29/2005 3:19:06 AM

3/29/2005 3:37:06 AM



MaxTempVal

MaxPressVal

13.841

MaxpHVal

9.7533

9.2641

MaxAgitatorVal

27.036



MaxAirVal

MaxOxygenVal

71,514

Selected Unit Batch Overview

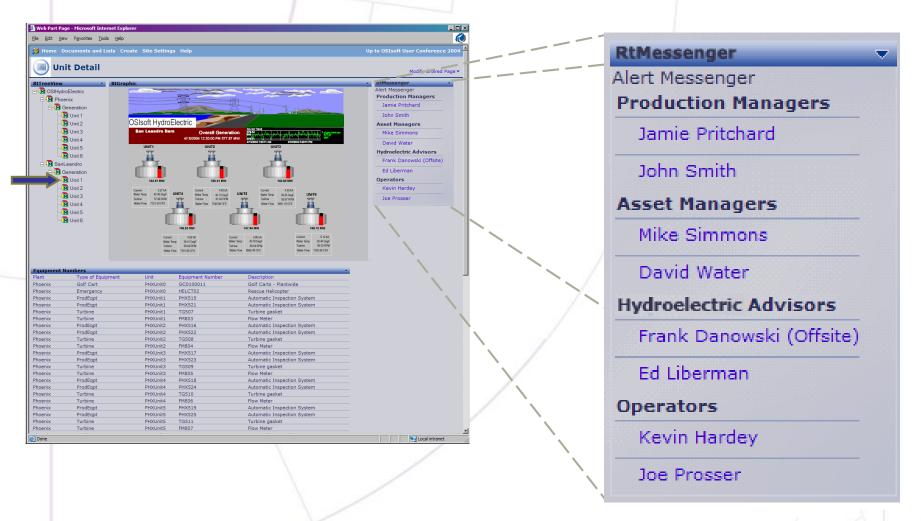
3/29/2005 3:13:06 AM

3/29/2005 3:29:06 AM

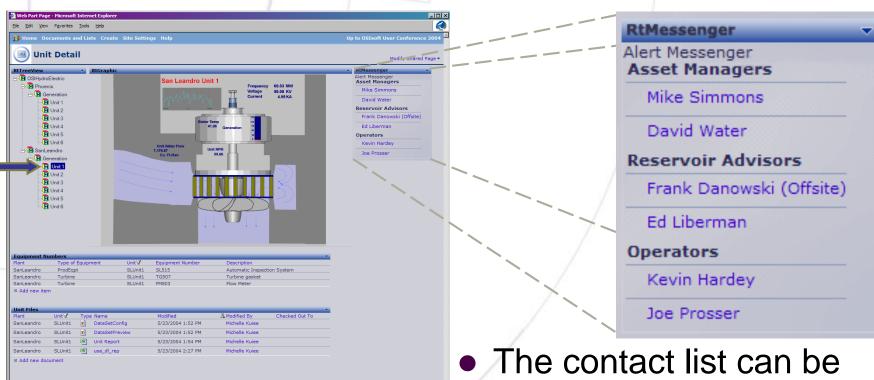
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Example #4: Involving Communications



A Filtered, Relevant Contact List



The contact list can be experts, location-based roles, or anyone who should be ready to support an information worker

OSIsoft's Visualization Roadmap

- Context and Data Integration
 - Module Database Today
 - Analysis Framework Today
 - Foundation Coming Soon
- Visualization
 - RtWebParts 1.0 Released
 - RtWebParts 1.1
 - New parts like RtMessenger
 - More functionality
 - ProcessBook 3.x and DataLink 3.x



Guidelines

- Start with a pilot project
- Incrementally build pages and applications
- Identify the potential users and their roles
- Research and understand business needs and requirements developing strong use cases
- Establish standards and practices in architecture and security
- Develop an enterprise naming convention
- Develop reusable KPI's, calculations and data queries



What to See at UC2k5

Today

- Analysis Framework Demo Pod
- RtPortal Demo Pods & Expo Theatre Talks
 - RtWebParts, RtPortal iViews, ProcessBook & DataLink

Tomorrow

- Service Oriented Architecture Breakout
- Analysis Framework Breakout
- Foundation Ending Keynote
- Plus so much more!



Enabling Enterprise Visibility

Build Upon a Framework

- Visualize and collaborate using a standard platform
- Enable visibility through information sharing

Enhance Existing Processes

- Deliver a single version of the truth
- Give users information within applications that suit their roles

Create New Opportunities

- Promote collaboration across boundaries
- Fuel critical, informed, profitable actions

OSIsoft delivers portal components for Microsoft's SharePoint and SAP's Enterprise Portal frameworks that enable your Real-time Performance Management goals.

