

Unlocking Data?

- Getting the right data, at the right place, at the right time
- By connecting people and your systems together
 - Connectivity, visibility, interoperability



Business Challenges

Disparate systems

- Acquired independently, over time
- Different departments/units

Domain, industry, or user-specific needs

PI System is an infrastructure

Many different targets

- Diverse types of workers
- Different platforms, media

Unlocking PI System Data?

- LoB Systems/Databases
- Orchestration/Workflows
- Web/Non-Windows Platforms
- Analysis/BI/Reporting
- Custom Applications

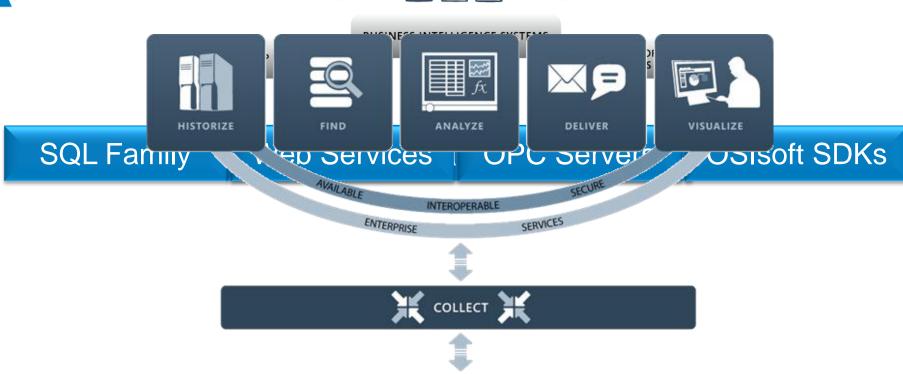


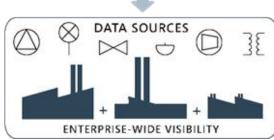
Custom Downtime Analysis Engine

Automated Ordering to Suppliers

The Products







The last year in Summary

- Brand new products:
 - PI JDBC Driver
 - PI OLEDB Enterprise
 - PI Web Services
- Going the 'asset' way
- More support for non-Windows and distributed environments

The SQL Family

- Set of drivers that expose PI System data in a relational database view (OLE DB, JDBC, ODBC)
- Database systems integration, analysis, BI, reporting, Linux











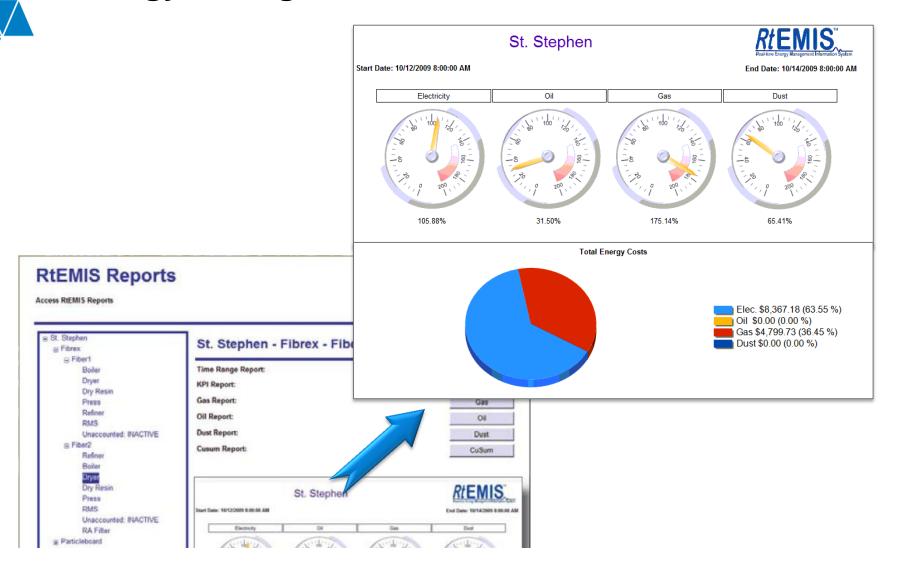
Custom SQL Applications







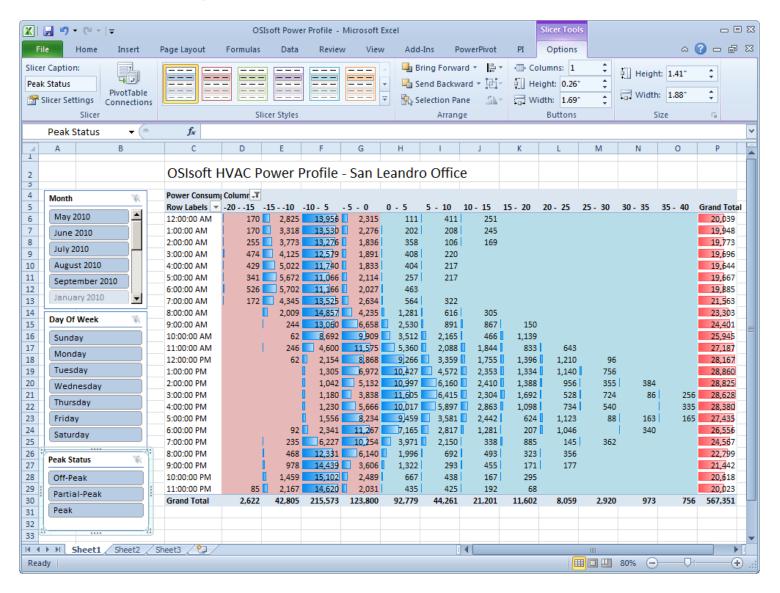
Energy Management



Environmental Analytics

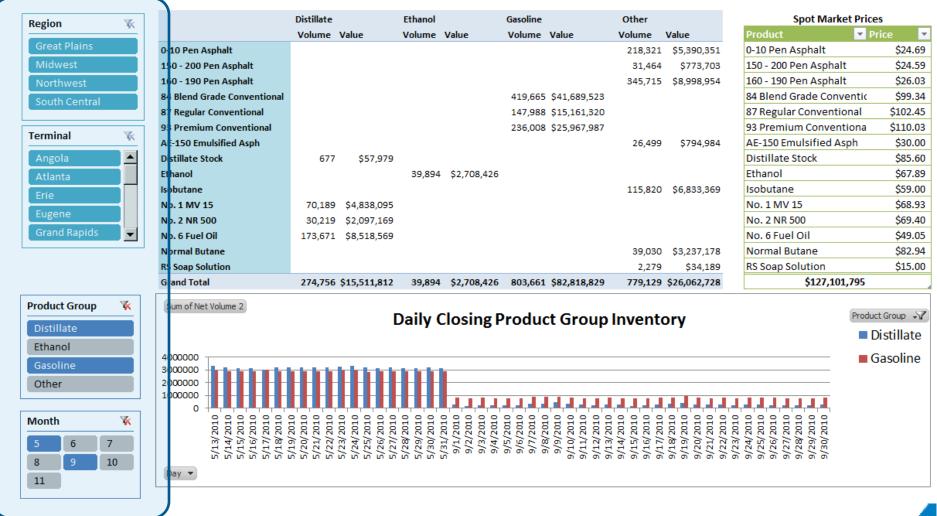


Cost Profiling

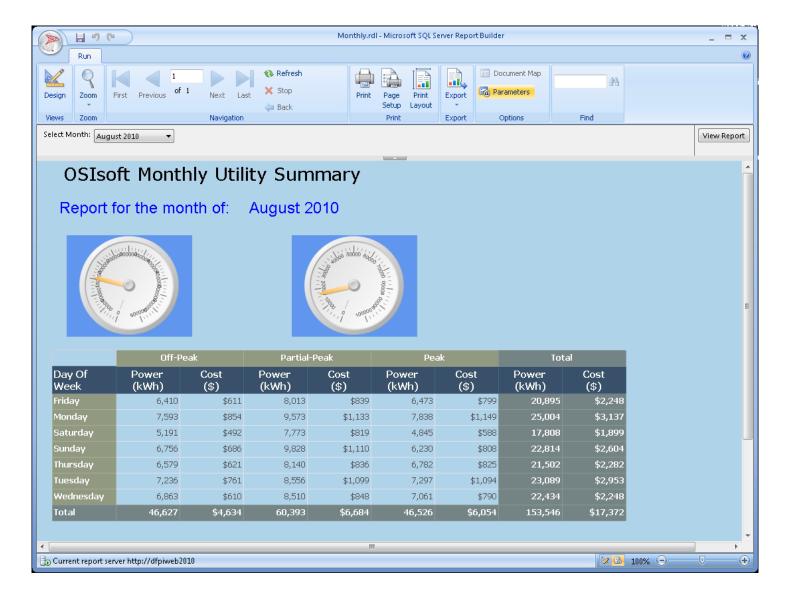


Product Inventories and Valuation

Regional Product Inventory Summary

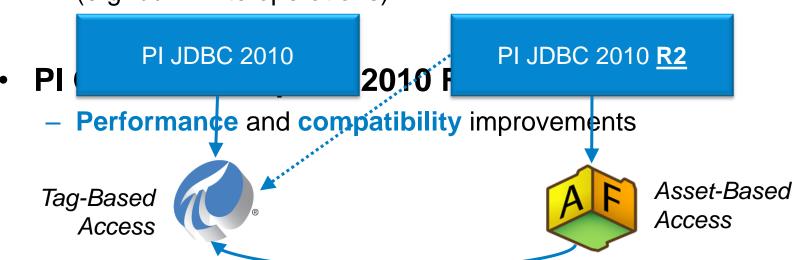


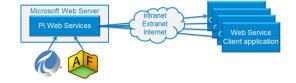
Reporting



New in our SQL Family

- PI JDBC 2010 R2
 - Go asset-centric
 - Performance enhancements
 (e.g. bulk write operations)

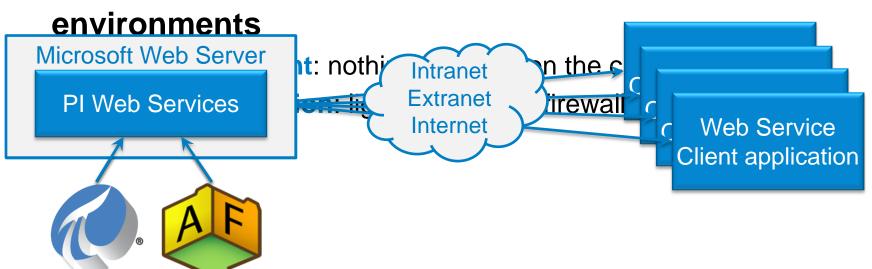




PI Web Services

Access to PI System data using standard web service technologies

Facilitates data access over secure and distributed

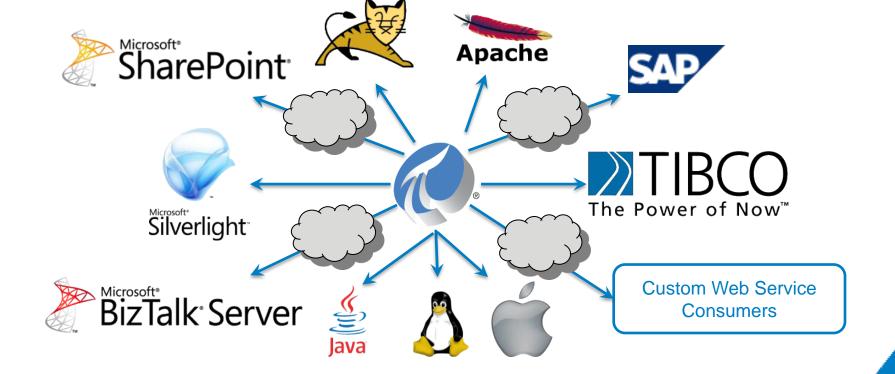


Use Cases

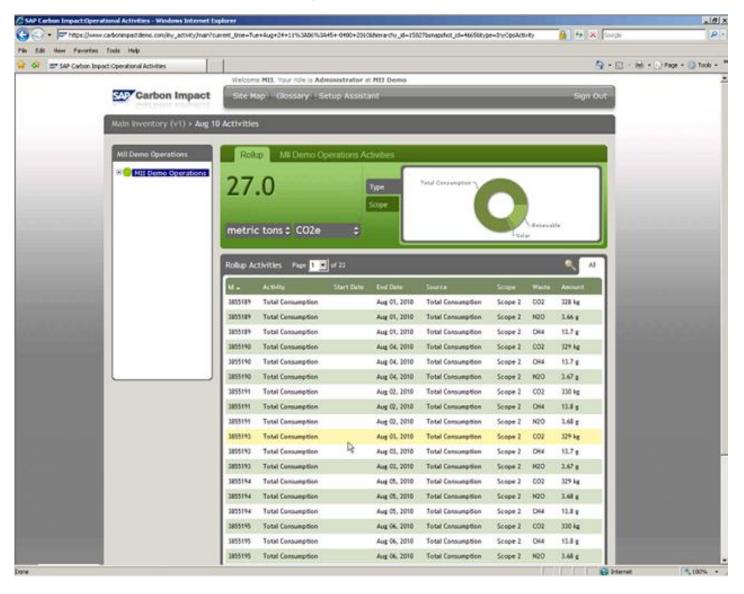
Web-based visualization

Integration with business systems

Non-Windows environments



Carbon Impact Management



Geospatial + Timeseries Data Mashup



New in PI Web Services 2010 R2

- 2 new methods
 - Simplified 'Get Snapshot'
 - Tag Search
- Support for additional data insert modes (e.g. replace)
- Support for additional PI AF Attribute types (e.g. formula, table lookup)

What's coming next



How to get PI Data Access

```
AFTimeRange tr = new AFTimeRange(new AFTime(tex products

AFValues vals = _afDB.Elements["Pump123"].Attri

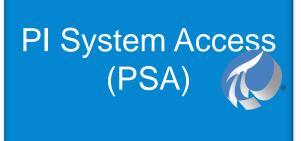
lstValues.Items.Clear();
foreach(AFValue val in vals)
{

lstValues.Items.Add(val.Value.ToString() + ime license
}

VCAMPUS
```







OSIsoft Virtual Campus (vCampus)



101 - Security

special

[22-Dec-10] vCampus webinar: PI System 101 - What makes time-series data and PI

Technical, interactive webinars

OSIsoft vCampus is intended to facilitate and

soft.com bft.com **Campus**

don't hesitate to share it with anyone

[16-Nov-10] PI Asset Framework (AF) 2010

interested.

OSIsoft vCampus Live!



OSIsoft vCampus Live! 2011

where PI geeks meet

Palace Hotel · San Francisco, CA Week of November 28th

November 30th - December 1st, 2011

Palace Hotel, San Francisco

www.osisoft.com/vcampuslive2011



Thank you