



OSIsoft[®]

UC2010

Real Time Information — Currency of the New Decade

Hilton San Francisco Union Square | San Francisco, CA

April 26-28, 2010

OSIsoft®

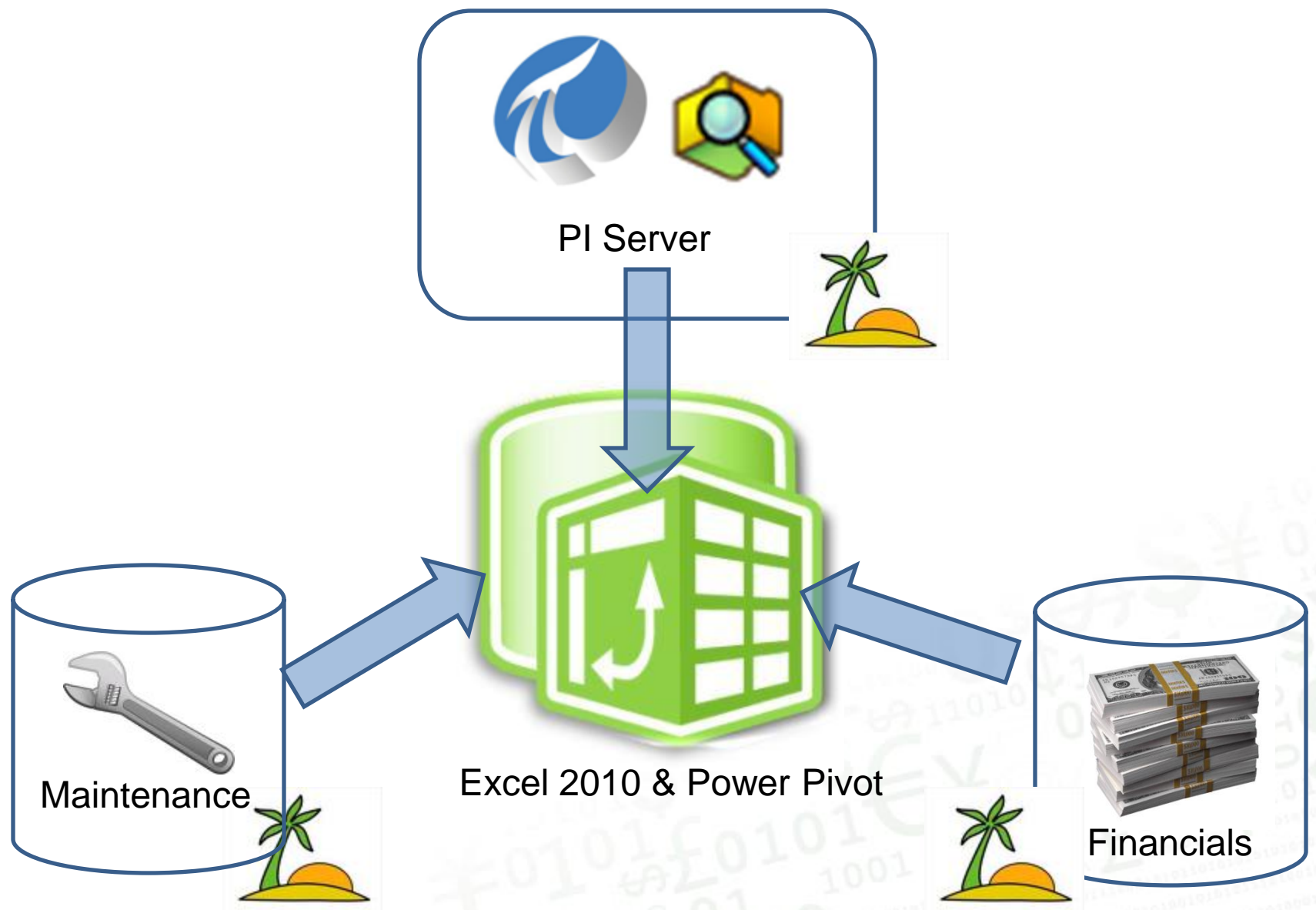
UC 2010

Visualizing Data with PI DataLink 2010, Microsoft Excel 2010 and Excel Services

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Scott Harrison, Ph.D. QA Engineer

OSIsoft, LLC.





Demonstration

- PI OLEDB Enterprise
- Excel 2010
- DataLink 2010
- PowerPivot
- DataLink Server 2010

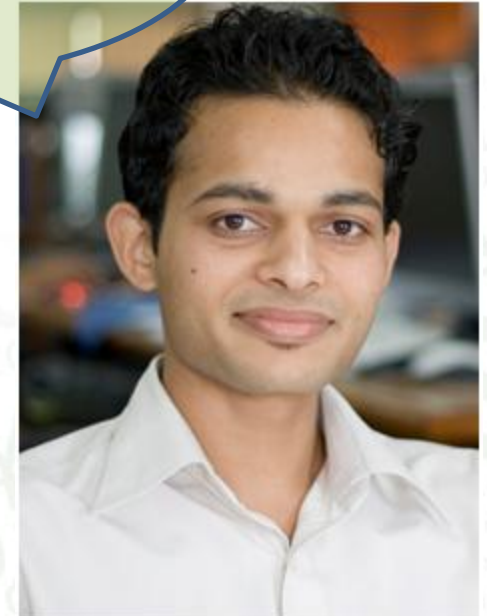




Lalit, it's 2010 and we need to be more green.



Not just green Carl, NuGreen!



Reduce costs by optimizing your business with PI and Office



NuGreen ▶ Home

- NuGreen
- Operations ▾
- Manufacturing ▾
- Engineering ▾
- Reports ▾
- Marketing
- Sales
- Accounting

- News
- Offices
- Departments
- Search
- Help
- Manufacturing
 - Houston Plant
 - Little Rock Plant
 - Tucson Plant
 - Wichita Plant
- Engineering
 - Cracking Process
 - Distilling Process



Corporate Portal

As one of the premier manufacturing and process companies, NuGreen is uniquely suited to meeting the needs of our customers in rapidly changing market conditions. Our goal is to provide world-class products and services, while maintaining our own core values of excellence, safety, and innovation.

I need to...

Employee Lookup

Top Sites

<input type="checkbox"/> Type	Edit
	
	
	
	
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Corporate Fuel Gas Consumption

PI Server 2010

SharePoint 2010

PI OLEDB Enterprise

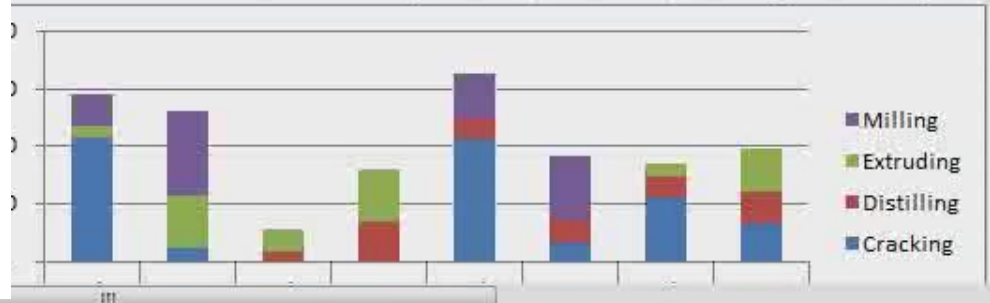
Excel 2010

PowerPivot

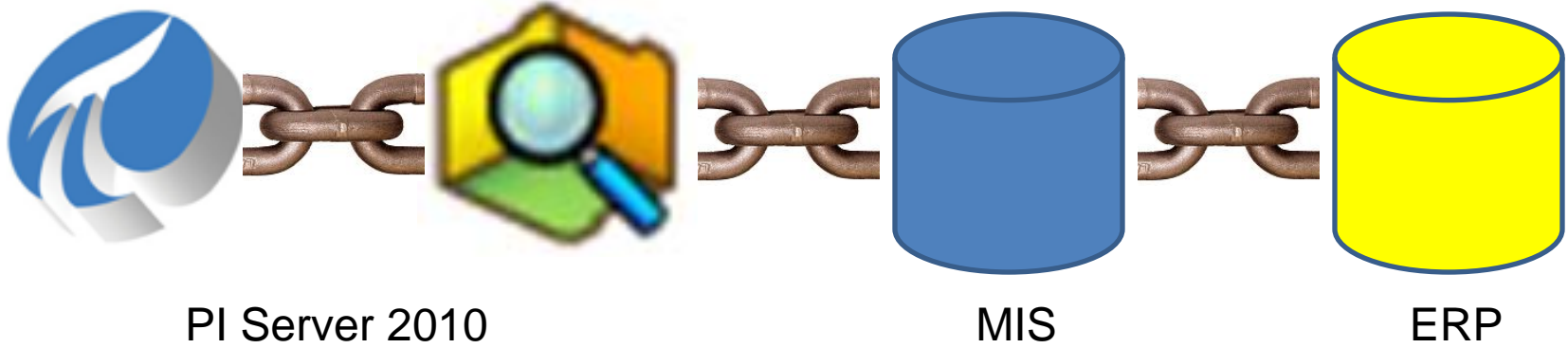
Shift

- Shift 1
- Shift 2
- Shift 3

Row Labels	Cracking	Distilling	Extruding	Milling	Grand Total
Houston	121,818		54,812	98,063	274,694
Boiler	108,161		10,049	26,473	144,684
Heater	13,657		44,763	71,590	130,010
Little Rock		44,952	63,409		108,361
Boiler		34,664	18,646		53,310
Heater		35,488	44,763		80,251
Tucson	125,455	36,175		92,188	253,819
Boiler	107,410	17,321		38,036	162,767
Heater	18,045	18,854		54,152	91,052
Wichita	91,365	45,170	14,546		151,081
Boiler	57,075	18,199	8,468		83,741
Heater	34,790	26,971	36,078		97,840
Total	339,138	126,297	162,767	190,252	818,454

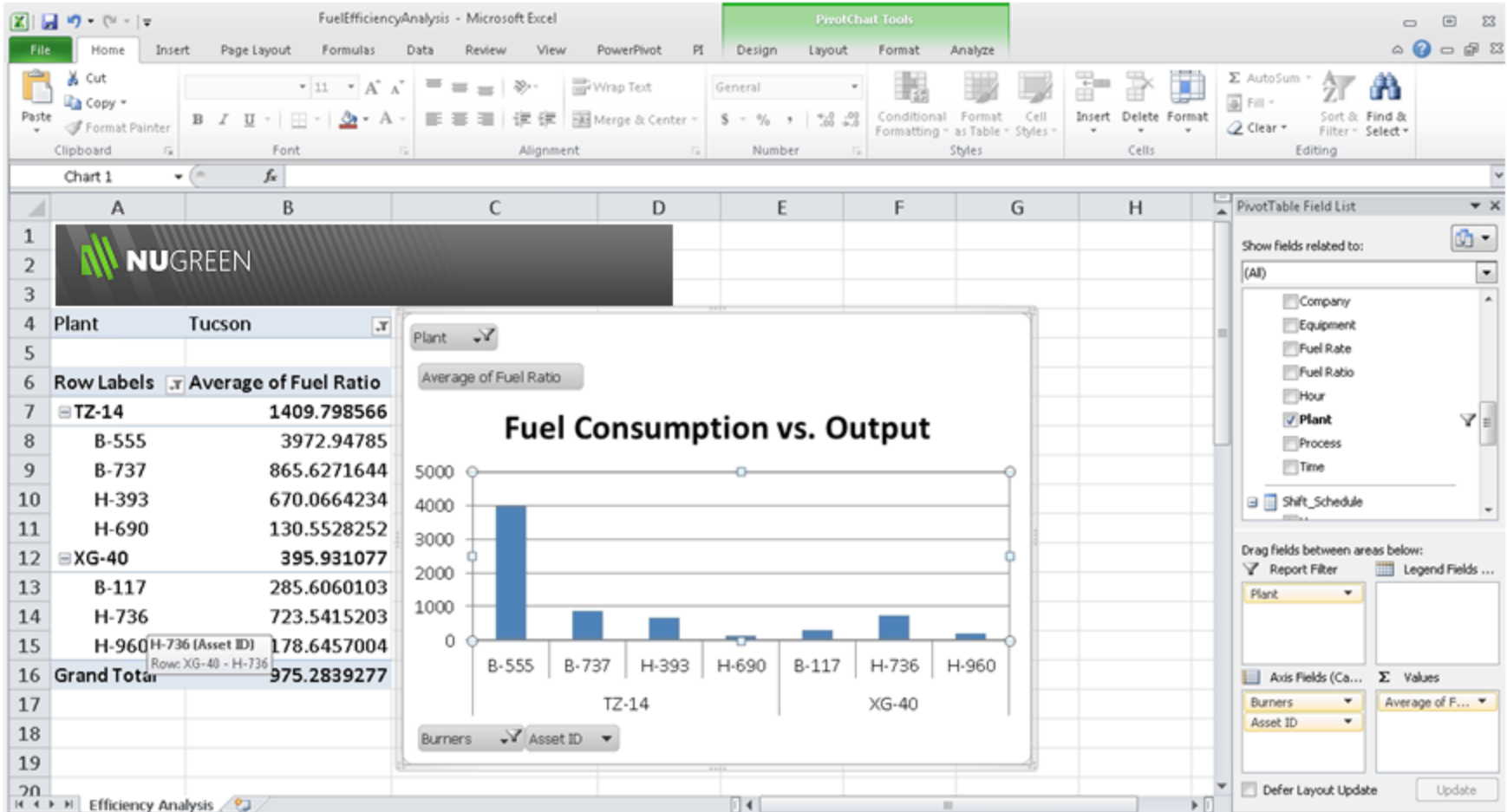


Better Together - OSIsoft & Microsoft




Derive more value through tight integration

PI + DataLink + PowerPivot



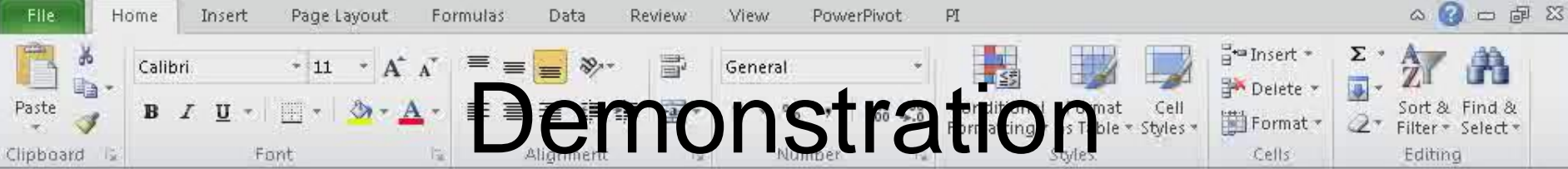
Lalit Draws Conclusions



	Tucson		Houston	
Timestamp	B309_FG903	B555_FG120	B210_FG005	B235_FG293
20-Apr-10 14:33:18	70.0065079	84.9462814	67.2982101	86.0312958
20-Apr-10 14:28:18	68.5293427	87.1578293	67.8664093	89.6309662
20-Apr-10 14:23:18	67.4987488	91.2100906	67.4337463	88.5298691
20-Apr-10 14:18:18	59.8878212	92.4278183	63.6964607	86.3389435
20-Apr-10 14:13:18	65.1665268	84.06353	68.4419708	82.160881
20-Apr-10 14:08:18	71.5968475	85.004982	71.2854004	87.7373886
20-Apr-10 14:03:18	71.1519775	83.1133118	65.0169907	85.1711731
20-Apr-10 13:58:18	66.2422104	80.9108353	69.7173538	82.9396286
20-Apr-10 13:53:18	65.6886215	80.7450027	67.8829193	80.941864
20-Apr-10 13:48:18	66.0907593	84.2832489	64.4166489	85.8176575
20-Apr-10 13:43:18	67.3596344	82.7519684	60.1664429	83.8520432
20-Apr-10 13:38:18	68.3992844	88.6196823	64.8003616	86.121376

- At each plant one boiler works harder than the other one.

- Call operations to see if they can better balance the load



Demonstration

	A	B	C	D	E	F	G
1	• PI Server 2010					• SharePoint 2010	
2							
3		Tucson		Houston			
4	Timestamp	B309_FG903	B555_FG120	B210_FG005	B235_FG293		
5	22-Apr-10 10:23:22	69.7702866	85.8057785	61.5365524	82.8778305		
6	22-Apr-10 10:18:22	66.4173203	86.6047974	60.8269806	81.7164459		
7	22-Apr-10 10:13:22	67.2459183	84.3410034	59.9791641	87.176178		
8	22-Apr-10 10:08:22	65.8623466	85.449852	65.0214767	89.032196		
9	22-Apr-10 10:03:22	69.9219055	89.1474609	64.6279526	80.5818558		
10	22-Apr-10 09:58:22	69.7511368	88.3785629	64.611084	85.8242722		

• PI DataLink 2010

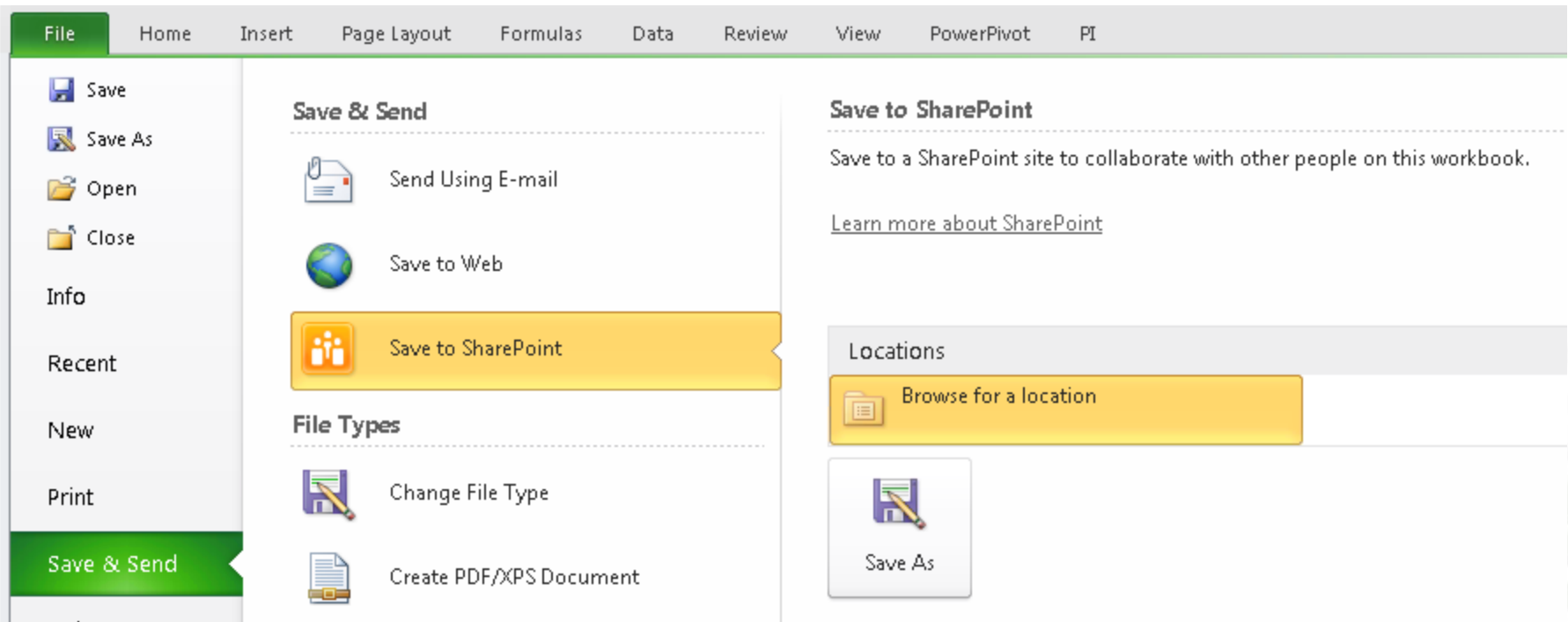
• Excel 2010

• PI DataLink Server 2010

• Power Pivot



Publish and Share



with SharePoint and DataLink Server

Demonstration

Clipboard Font Alignment Number Styles Cells Editing

Calibri (Body) 10 A A

General

Insert Delete Format Cells

Sort & Filter Find & Select

Chart 1

Row Labels	Count of R-B309_FG903	Count of R-B545_FG120	Count of R-B210_FG005	Count of R-B235_FG203
Calendar 201	43201	43201	43201	43201
Quarter 1, 3/1/2010	11616	11616	11616	11616
Week	5856	5856	5856	5856
Week				5760
Quarter 2, 4/1/2010				31585
Week				31585
Week				4320
Week				10080
Week				10080
Week				7105
Grand Total				43201
Row Labels	Count			
Sunday				
Monday				
Tuesday				
Wednesday				
Thursday				
Friday				
Saturday				

• PI Server 2010

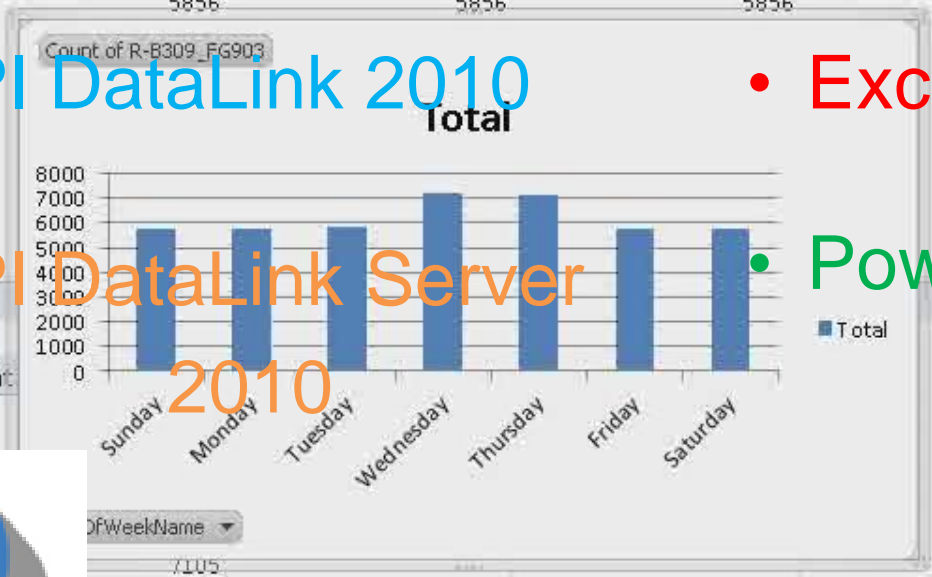
• SharePoint 2010

• PI DataLink 2010

• Excel 2010

• PI DataLink Server 2010

• Power Pivot



PowerPivot Field List

Choose fields to add to report:

Search

- DayOfMonthName
- DayOfWeek
- DayOfWeekName
- WeekOfYear
- WeekOfYearName
- MonthOfYear
- MonthOfYearName
- MonthOfQuarter
- MonthOfQuarterName
- QuarterOfYear
- QuarterOfYearName

Tag Data

- Timestamp

Slicers Vertical Slicers Horizontal

Report Filter

Axis Fields

DayOfWeek



Great work Lalit!



Thanks Carl. I couldn't have done it without the **PI System!**



Feature Recap

- *Slicing and Dicing data w/ **PowerPivot***
- *Trending in Real Time w/ **SparkLines***
- *Sharing BI w/ **DataLink Server** and **SharePoint***

What's New in DataLink 2010

- Supports Microsoft Office 2010 (32-bit)
- Internationalization and Localization

*English, French, German, Spanish, Portuguese,
Russian, Simplified Chinese, Japanese, Korean*

Questions?

Visit OSIsoft PMs & Developers at the Demo Pods

Tuesday 3:00 – 9:00 PM and Wednesday 8:00 – 10:30 AM

<http://www.osisoft.com>

<http://www.powerpivot.com>

<http://vcampus.osisoft.com>



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Thank you

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