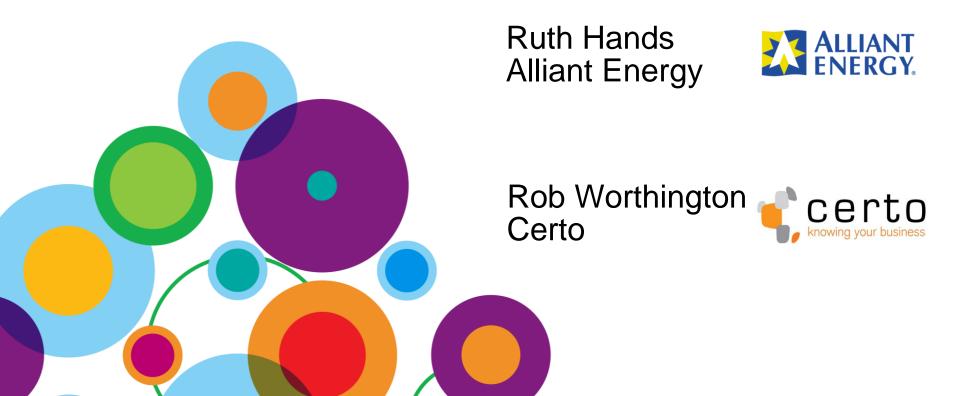
Business Analytics Forum

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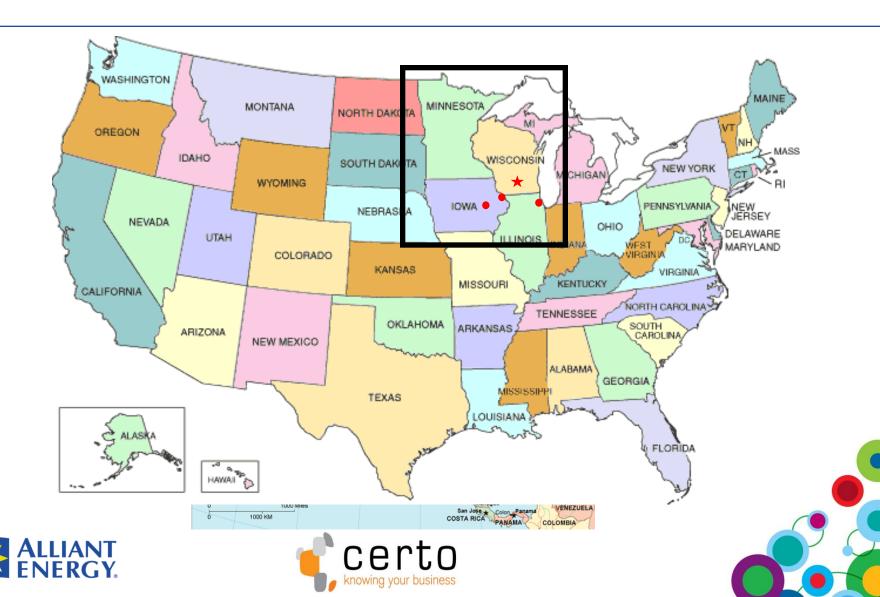
Information is Power Utility Outage & Map Integration with IBM Cognos BI

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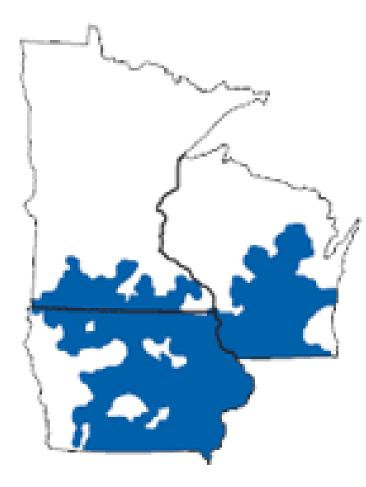




Where in the world is Alliant Energy?



What is Alliant Energy?



- Electric Customers: 1 Million
- Natural Gas Customers: 412,000
- Service Territory: 54,000 sq. miles
- 9,700 miles of electric transmission lines
- 8,000 miles of natural gas main
- Generate 31 Million MWH of electricity each year



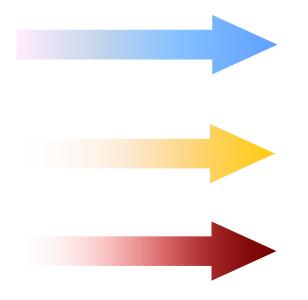




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Data Warehousing/Business Intelligence at Alliant Energy

Toolset: Erwin, Oracle DB, Informatica, IBM Cognos BI 8



Processes peak daily load of 410 million rows of data

Data from more than 25 sources

95 cubes built on daily, weekly, biweekly or monthly schedule







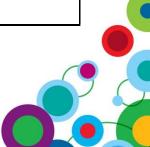
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Data Warehousing/Business Intelligence at Alliant Energy

Business Domain	Analytics
	Customer Participation, Revenue & Usage, and Rebates
Customer	PowerOut, Electric System Reliability, Outage Response Tracking
	Commercial Availability Factor
Energy Market Operations	Generation Market
	Asset Management, Demand Side Management
	Vehicle Fleet Usage & Chargebacks, FPA, Genco,
Financials	General Ledger, Joint Plant Billing, Project Costing, Tax
Human Resources	Safety, Time Entry, Training
Information Technology	Audits, Network Audits
Supply Chain	Inventory, Logistics and Sourcing
	Construction & Engineering, Gas Inspections & Maintenance
Utility Operations	Substation Maintenance, Gas & Electric Infrastructure

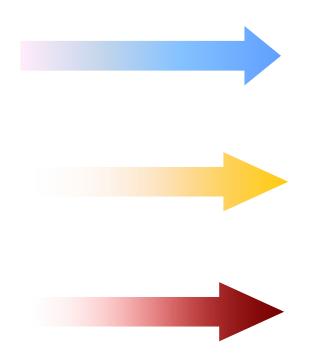








What was the business problem?



Alliant Energy uses a Distribution Management System to manage outages and restoration to customers.

Alliant Energy was using unsupported version of Distribution Management System and needed to upgrade

However, a key gap in the upgraded system was identified

Delivered functionality no longer included Executive Dashboard









What is the Executive Dashboard?

	in 5 mins 3/2008 12:30
	Automatic
BURLINGTON ZONE 3 208 18 0 0	
Summary Beaver Dam Zone 1 17 0 0 0	
Event Feeder Fond du Lac Zone 1 1 0 0 0	
Historical Event OTTUMWA ZONE 4 60 2 1 0	
WASHINGTON ZONE 1 2 1 0 0	
Optimization Optimization Wisconsin Rapids Zone 1 0 0	
Customer	
C Priority	
C Non Priority	
Call	
Fuzzy County Total	
Create Summary Html File	
Historical Region	









Executive Dashboard Business Requirements

Provide same user interface functionality Secure Login Auto and Manual Data Refresh Data Filtering & Drill Down Report Printing & Copy To Map View of Outage events



Provide same reporting functionality By Regions By Events By Feeder By Customer By Calls By County







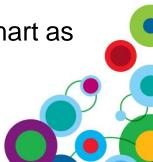


Options for developing Executive Dashboard

- DMS Upgrade team build it using DMS datamart & BI toolset delivered with upgraded system.
- BI team build it using DMS datamart & BI toolset delivered with upgraded system
- BI/DW team build it by creating datamart within the Alliant Energy data warehouse using IBM Cognos 8.x toolset
- BI team build it using IBM Cognos 8.x using DMS datamart as source for data.

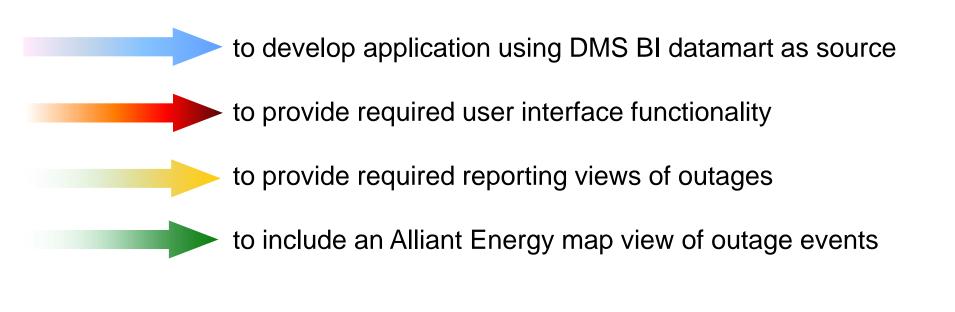








Next Steps – Needed to show we could do it



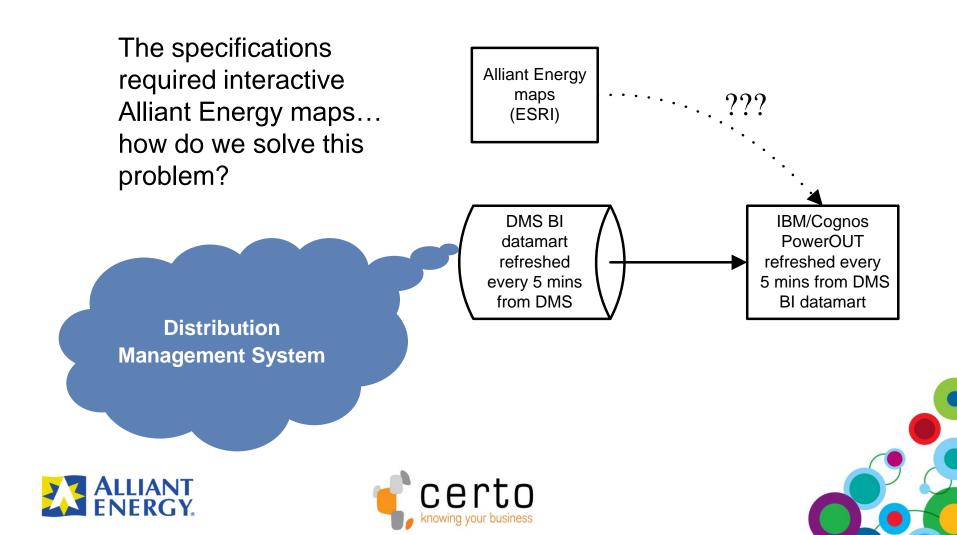








PowerOUT Architecture





How to include interactive Alliant Energy maps?

Researched products based on the requirements to use IBM Cognos and ESRI

Cognos Mapping
Google API
OpenLayers
SpotOn Vantage

Why SpotOn Vantage?

Partner with IBM Cognos providing mapping solutions using ESRI
 Only solution to provide interactive capabilities with access to ESRI maps

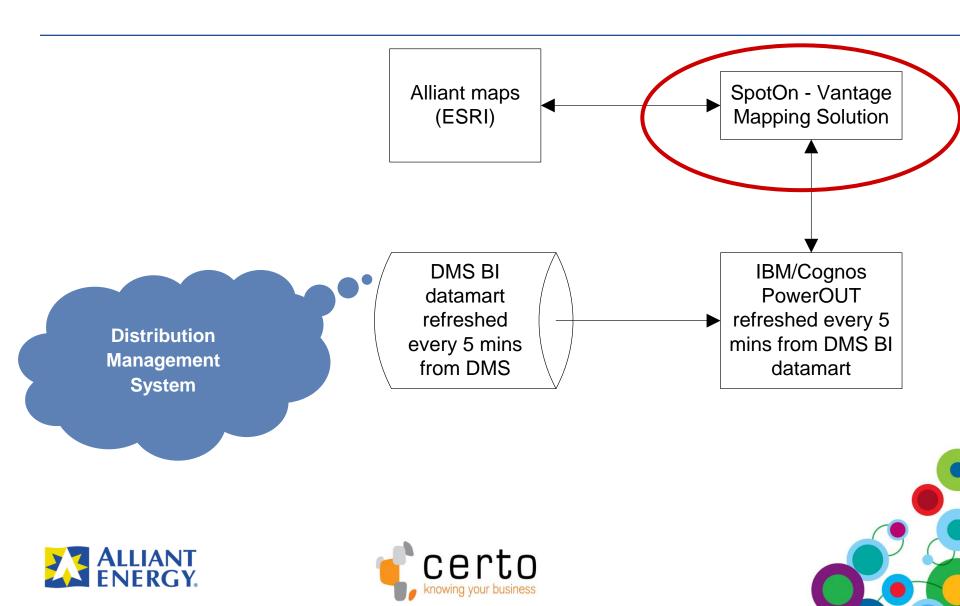






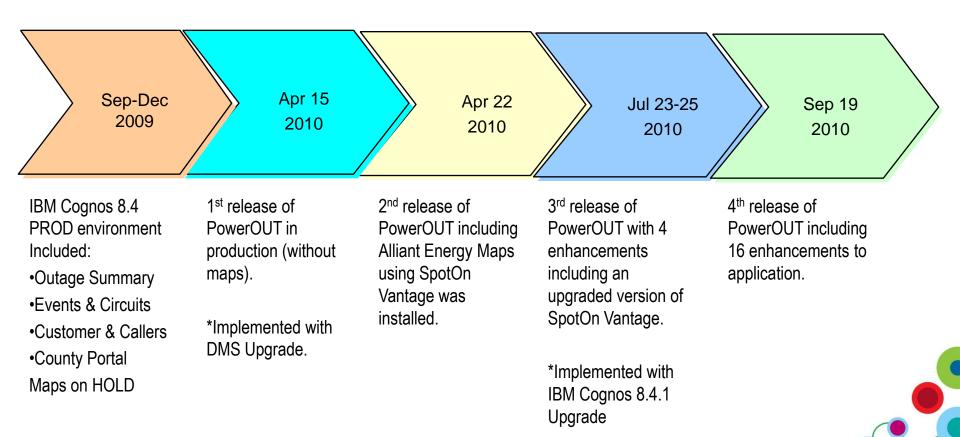


PowerOUT Architecture





Timeline for Developing PowerOUT







PowerOUT Demo

DEMO of Alliant Energy's PowerOUT application







Who uses PowerOUT?

Currently 550 users of the PowerOUT application

Mission Critical users

- Field Operations Managers
- Distribution Engineers
- Corporate Communications
- Call Centers
- DDC Management Teams
- DDC Application Support Employees

Other users

- Executives
- Account Managers
- Substation Managers
- Asset Care Mangers
- Field Dispatchers







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How is PowerOUT used by the Call Centers?



Provides customers with details of power outages that may be impacting them



Provides call centre with specifics of electric outage situations impacting both AE and our customers



Provides the call center management team with a big picture of electric outage status







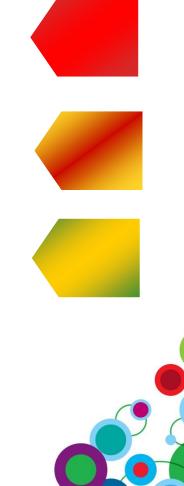


Why is PowerOUT a critical 24x7 application?

Only application providing Field Operation Managers and Executives near real time information on power outages when they need it 24/7

Provides sufficient outage information to allow safe & efficient working of our dispatchers

Used out in non business hours during major weather events and outages

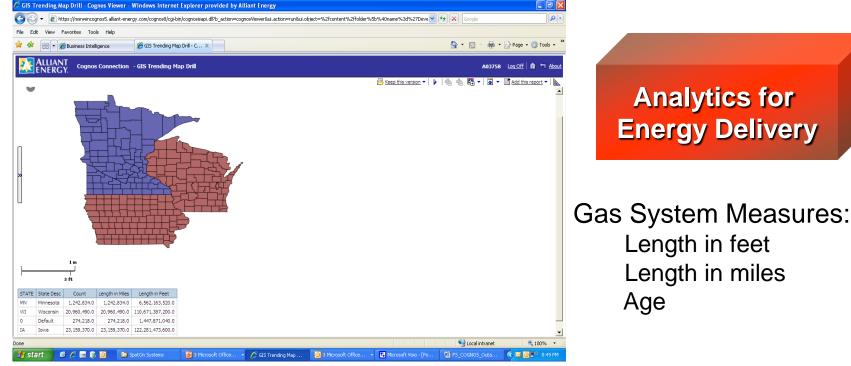








'Next steps' for Alliant Energy using SpotOn Vantage









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