



## **GIS Interest Group**

*GIS Integration for Real Time and Historic Outage Data*

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**GIS Interest Group Webcast**

August 15, 2012

# Agenda

- Legal Notices
- EPRI GIS Data Quality Project Status Update
- GIS Interest Group Website and LinkedIn Groups
- “LineView” T&D Mapping and Inspection Solution Project
- ***GIS Integration for Real Time and Historic Outage Data***
- General Discussion
- Next meeting...



# Legal Notices

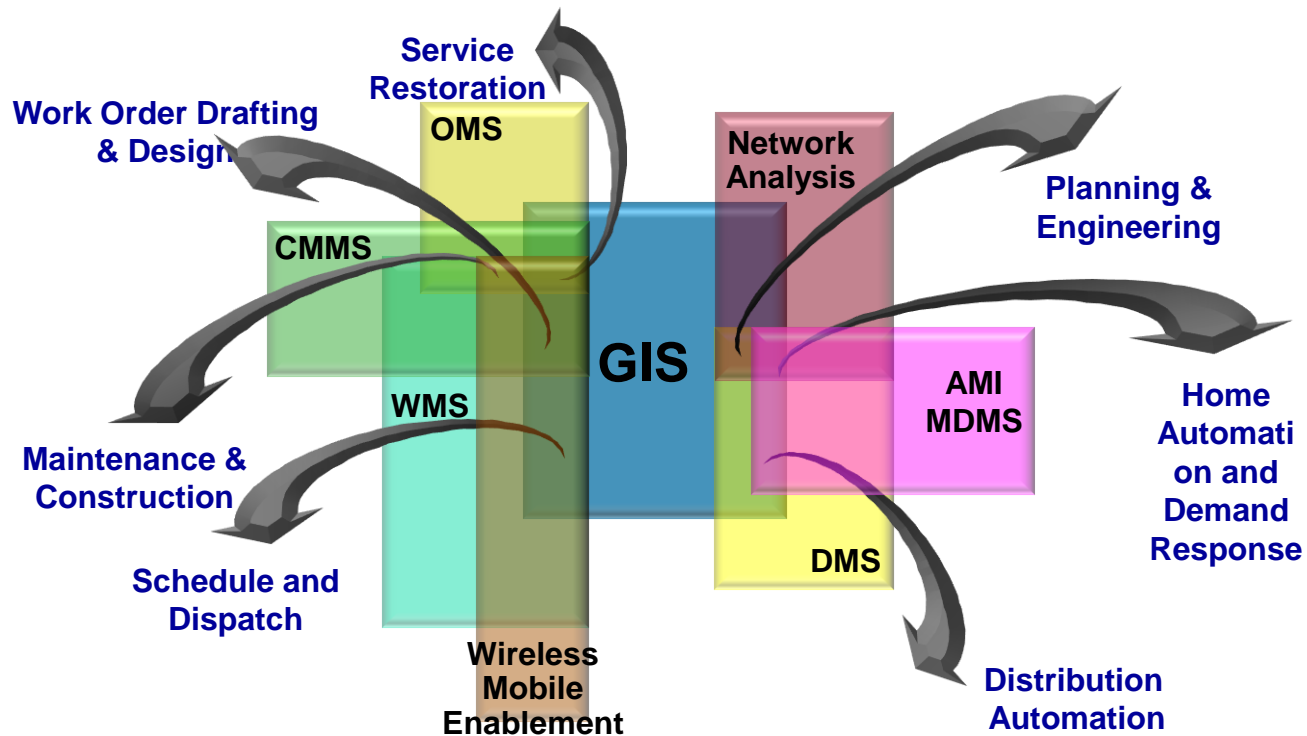
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# GIS Data Quality Project Update

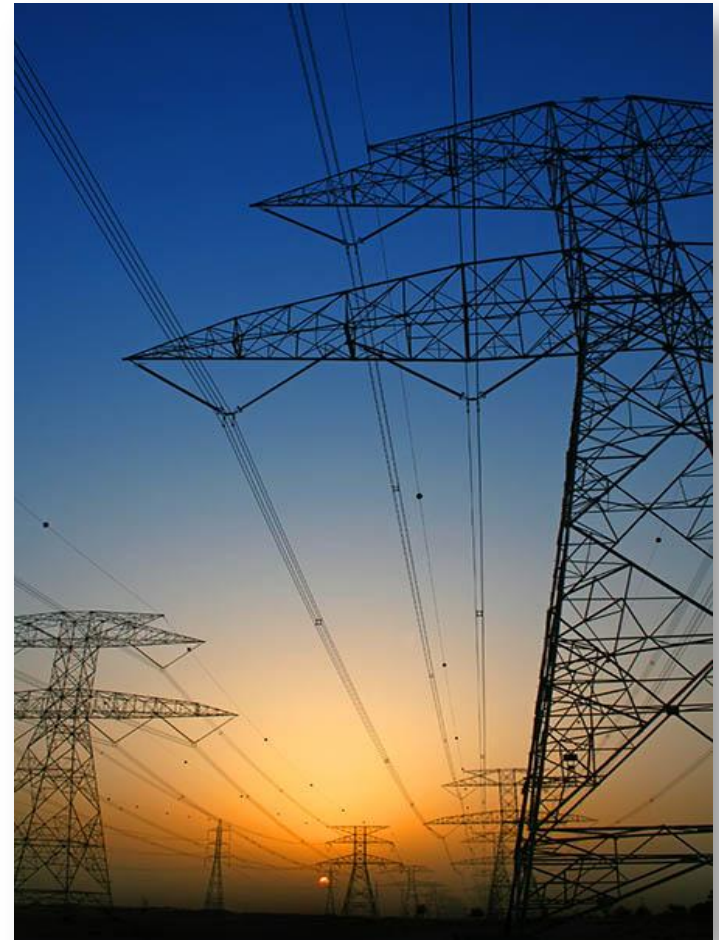




# EPRI GIS Data Quality Survey – Phase 1

## Preliminary Findings

- Thirteen utilities participated in the survey.
- Outage management and engineering analysis are the most common uses of GIS data.
- Integration and dependencies vary widely.
- No correlation between integration of the GIS and data quality.
- Users are generally confident in the data.
- Utilities are doing a better job at 'completeness' than 'accuracy' of data.
- Benefits of 'good' data are seen, but repercussions of 'bad' data are not.



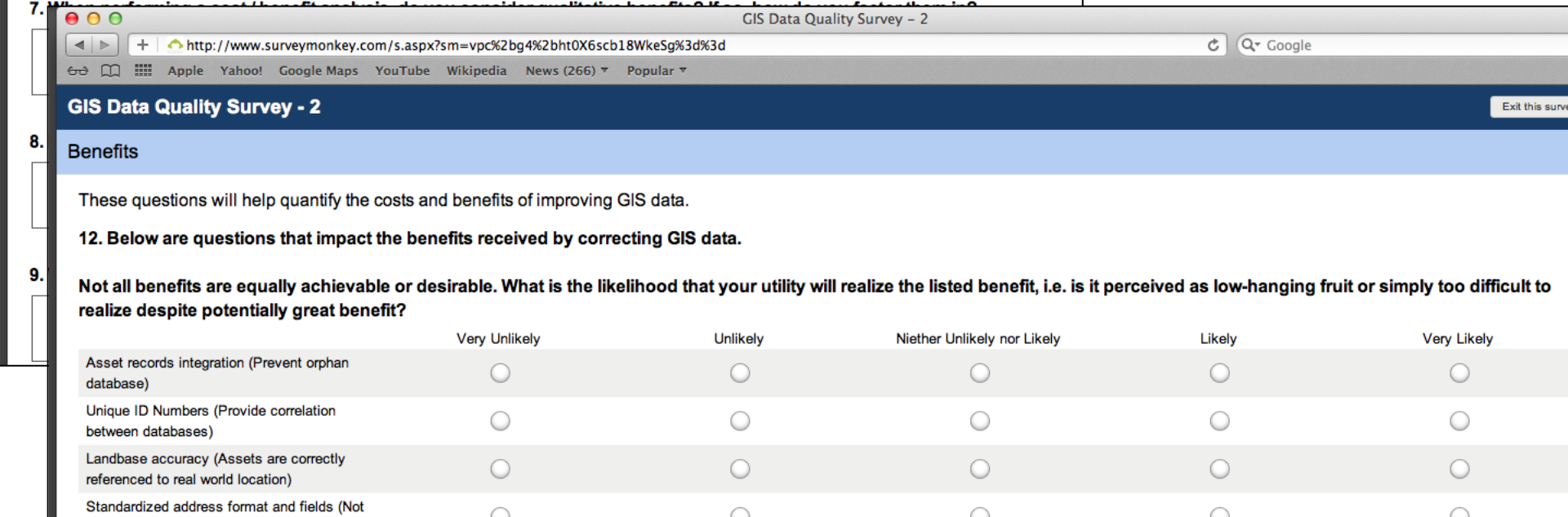
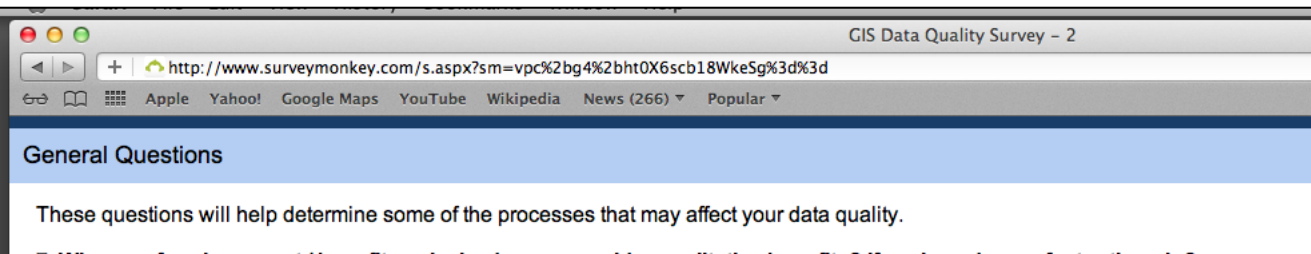
# EPRI GIS Data Quality Survey – Phase 1

## Survey Result Statistics

- Thirteen utilities participated in the survey.
- 36% store all distribution data in GIS, but 66% make use of an asset management system.
- 66% have unique asset IDs, only 27% physically tag the asset in the field.
- 54% felt that data accuracy was 75-90% (64% user confidence in data).
- 63% felt that data completeness was 75-90% (72% user confidence in data).
- Only 9% of utilities have experienced a catastrophic problem due to data, but 56% have enjoyed a benefit of good data.
- While 91% have programs to improve data, only 54% have dedicated staff.
- 73% have automated quality assurance.
- 91% have not seen quality deterioration over time.

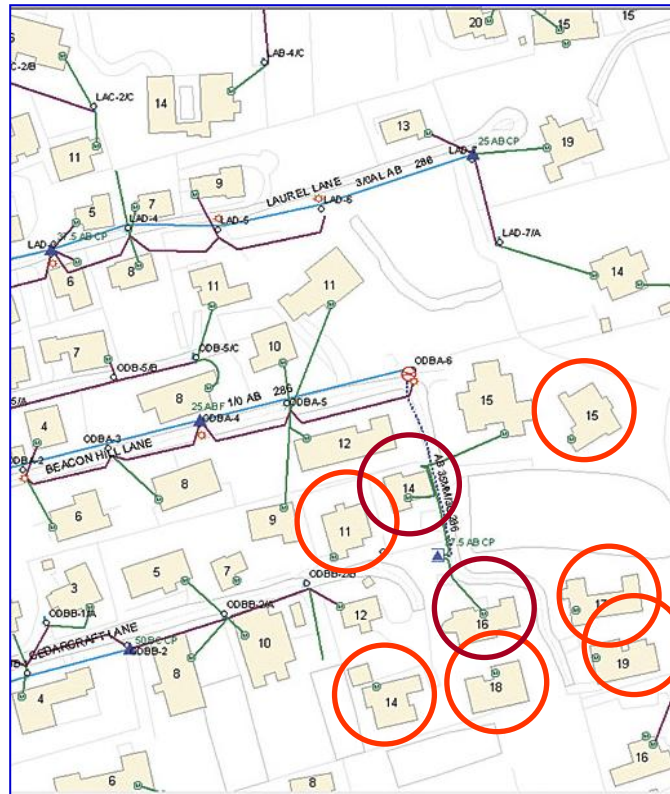
# GIS Data Quality

- A study is underway to assess the cost of GIS data quality
- A preliminary survey allowed us to validate your context
- A follow-on survey was developed to help build a financial model
- Your help is requested with the detailed survey (due August 17):  
<http://www.surveymonkey.com/s/82YP3C6>





# Other EPRI GIS Stuff....



# GIS Interest Group – Tech Transfer

← → <http://www.linkedin.com/groups?gid=4428580&trk=hb> EPRI GIS Interest Gr... x

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**John Simmins** 3 days ago • This is open to the public. Non-EPRI members are welcome.


### Manager's Choice

 EPRI GIS Interest Group is now an open group  
John Simmins [See all](#) »

### Latest Updates

 **John Simmins** started a discussion:  
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 **John Simmins** commented in the group on **Webcast on Tuesday, July 10th with EPRI's Pat Brown on Transmission Network Model Mangement**: This is open to the public. Non-EPRI members are welcome.  
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# “LineView” T&D Mapping and Inspection Solution

**Objective:** “LineView” would map and document the T&D system while providing a reliability assessment of the T&D equipment.



- Verify if Google camera technology can be adapted to meet the needs of a utility application.
- Determine if there is a possibility to partner with Google or another company on this project.
- Install equipment in a vehicle to determine the practicality of the installation.
- Demonstrate proof-of-concept with a small field trail.
- Determine ease of use of the data from the different sensors and cameras.

# “LineView” T&D Mapping and Inspection Solution - Benefits



- Modeling, operational and reliability benefits for a utility could far outweigh the cost to deploy this technology.
- Reduce cost and time to do manual field inspections.
- Identify potential reliability issues of T&D equipment quicker.
- Reduce need of future field visits to check on equipment.
- Ability to add other camera and sensor technologies to the vehicle over time to increase the value of the “LineView” solution.
- Accurate documentation of equipment with corresponding GPS coordinates.

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