

Enspira<sup>®</sup> Solutions, Inc. (Enspira) provides consulting, systems integration, data services, and technical support to enable electric, gas, water and wastewater utilities to improve their business through the intelligent use of technology. In addition, we serve local, regional and federal government organizations and cable service providers.

Enspira is a system integrator with an unparalleled record of GIS implementation and integration. Because we are not a product company, our role is dictated by the needs of our customers and not downstream product sales. Our position enables us to excel in providing the best solutions, maximizing our client's past and current technology investments and identifying and implementing the optimal go-forward solution.

Enspira Solutions was founded in 2003 with experts from the Convergent Group, which is now a wholly-owned subsidiary of Enspira. Enspira offers the advantages of a small team of experts plus the financial strength of our parent company, Black & Veatch.

## Enspira Solutions awarded ESRI Business Partner of the Year, 2008

This was the first time the award was given to a service provider and not a vendor/reseller.



**ESRI Business Partner  
of the Year 2008**

### Fostering Client Success

Enspira has been involved with every dimension of Enterprise GIS since 1986. We have built an unparalleled track record of helping clients build and sustain successful programs based upon consensus and support of the respective organizations. Our approach is to join the client team and bring proven capabilities, expertise and perspective to augment the existing capabilities. Our overall focus is to foster client success.

### Approach and Track Record

At Enspira, our business approach reflects a smaller, flexible company that is deeply experienced and offers high value as a client partner in a number of technology areas. We are extremely focused on the needs of our clients and provide cost-effective solutions that yield maximum return on investment.

We provide consulting, design, development and integration of GIS and related systems, and specialize in:

- *Geographic Information Systems*
- *Job Design*
- *Work Management*
- *Inspection and Maintenance*
- *Outage Management*
- *Mobility and Field Force Automation*
- *Distribution/Substation Automation*
- *Smart Grid*
- *Advanced Metering Infrastructure*
- *Distribution Management Systems*
- *Enterprise Asset Management*

# Industry Contributions

Enspira Solutions is an innovative leader in the GIS industry and is dedicated to being at the forefront of improving business solutions. The following sample list represents our most recent contributions in terms of press articles and conference presentations:

Enterprise GIS – are we there yet. Spatially Enabled BI for Utilities  
*Electric Energy T&D Magazine, April 2010*

Spatially Enabling Outage Communications  
*ESRI User Conference 2010 -- co-presented with E.ON U.S.*

Enterprise GIS Turns Infrastructure Data into Valuable Business Intelligence  
*ESRI Telecom Connections, Spring Issue 2010*

Scaling the Cairngorms: Test-Driven Flex and ArcGIS Server Development Utilizing Cairngorm 3  
*ESRI Developers Summit 2010*

Beyond GIS: System Integration and Interfacing  
*GITA Oil & Gas 2009 — User Group Conference 2009, GITA Oil & Gas 2009*

Realizing Port of Portland's Investment in Imaging through Image Server  
*ESRI Users Conference 2009*

How GIS Helps Plan, Implement and Operate your Smart Grid  
*ESRI EGUG 2009*

Enabling Spatial Intelligence  
*EUCI's GIS 2.0: Technical and Programming Developments for Electric and Gas Utilities 2009*

Leveraging Benefits through Enterprise GIS Deployment  
*ESRI Users Conference 2009*

ESRI, Microsoft and Spatially Enabled BI Technology  
*ESRI EGUG 2008*

Balancing Environmental Mandates and Fiscal Responsibilities with Geospatial Technology  
*ESRI EGUG 2008*

Solving the BIG Problems — Lessons Learned at Georgia Power  
*ESRI 2008 Users Conference & ESRI EGUG 2008 -- co-present with GPC*

Phased Migration from CAD to GIS Maintains Currency, Minimizes Disruption  
*ESRI Energy Currents, February 2008*

Georgia Power Makes a Smooth Move to GIS  
*T&D World, March 2008*

Data Refresh: Breathing New Life into a GIS Database  
*Electric Energy T&D Magazine, March/April 2008*

Field Data Communications: Transition to the Fat-Pipe World  
*GITA 2008*

Geospatial Systems Integration Strategies  
*Electric Energy T&D, March/April 2007*

Integrating GIS and AMR: An Enterprise Application Approach  
*GITA 2007*

Maintaining Currency, Minimizing Disruptions: Utility uses phased migration from CAD to GIS  
*ESRI ArcUser, April–June 2007*

Using GIS Technology to Maximize Operations Data Marts  
*DistribuTECH 2007*

Maintaining Data Quality During a Phased Enterprise GIS  
*ESRI Users Conference 2007*

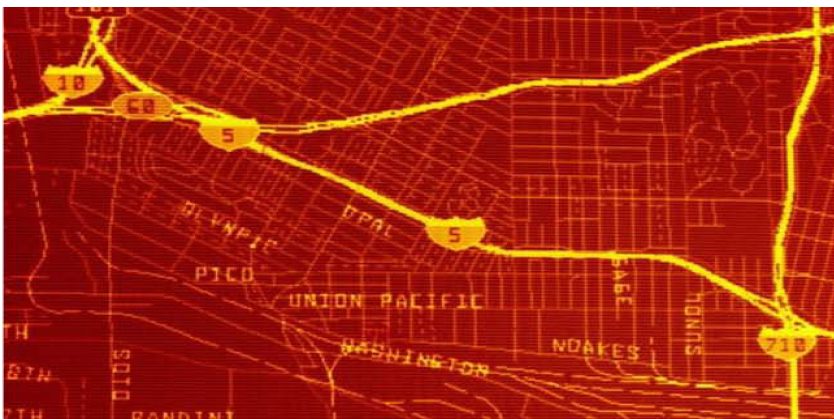
Plan for Migration Supports CAD to GIS Changeover  
*ESRI Energy Currents, Spring 2007*

Can I Have It Now? (GIS Organizational Impacts & PM)  
*DistribuTech 2007*

Feed the FLAME: Utility Integrates Field Applications  
*Geoworld, March 2007 -- co-authored with UGI*

Deploying GWD as Value-Added Extension of GIS  
*ESRI Energy Currents, Spring 2007*

Integrated GIS — Another Level of Benefits for Local Government  
*GeoWorld, September 2006*



# REAL PEOPLE WITH INSPIRED SOLUTIONS TO REAL PROBLEMS

## SERVICES

Enspira supports clients across the project lifecycle to achieve business and technology goals.

### Web Development

Enspira has been on the leading edge of GIS web evolution and new web products since their inception.

Our extensive Web experience includes such initiatives as:

- *Flex/Silverlight/HTML/CSS/Javascript web applications utilizing ArcGIS Server*
- *Business Intelligence dashboards to provide Key Performance Indicator (KPI) status and summary information*
- *ASP.NET web applications interfacing to spatially aware data repository*
- *Microsoft Sharepoint based Internet website to allow general public to research City statistics*
- *Spatially enabled outage communications dashboard*

### ESRI Extensions and Tools

Enspira has performed multiple ESRI implementations of specific extensions and tools for key clients, used on an enterprise basis. Enspira's "hands on" experience saves clients time and money during the implementation.

Support areas include:

- *ESRI Image Server, JTX, Schematics, PLTS technology*
- *Assessment of needs and architecture options*
- *Development of solution*
- *Performance tuning*
- *End-user documentation and training*
- *Support for production deployment*
- *Integration with enterprise technology*

### Third-Party Implementation and Integration

Enspira has extensive experience in implementing ESRI Business Partner technology to ensure complete solutions for customers including:

- *Telvent Technology (ArcFM, Designer, Conduit Manager and Network Adaptor)*
- *Microsoft Sharepoint, SQL Server Analysis/Reporting/Integration Services and PerformancePoint Server technology*
- *Various Work Management, Outage Management and Field Force Automation tools*
- *Various ESB technologies*

### GIS Roadmap and Strategic Planning

Enspira provides GIS planning and consulting to help clients maximize the utilization of GIS and related systems.

Support areas include:

- *Technology visioning and strategy*
- *Review and evaluation of platforms and plans*
- *Business case*
- *Architecture and business/functional requirements*
- *Vendor selection*
- *Long-term strategies for GIS integration and data maintenance*

### System Implementation and Integration

Enspira has been heavily involved in ESRI technology implementation, integration, and enhancement projects we leverage a long history of working with ESRI and have application experts for ESRI products.

We can help with:

- *Implementation planning to define scope, expectations, required events, schedule, and overall budget*
- *Enterprise GIS design and development*
- *Data model design and analysis*
- *Developing/executing plans for data migration*
- *Integration of GIS with enterprise technology*
- *Design and creation of web services (SOAP, REST) in support of enterprise integration*

### System Review and Tuning

Enspira's expert staff helps optimize the performance of ESRI systems by conducting comprehensive system reviews, including hardware, software, network and data model.

Available support includes:

- *Hardware (server) configuration*
- *RDBMS installation, configuration and tuning*
- *ArcSDE installation, configuration and tuning*

# GIS Services

## Enspira Solutions GIS Clients

Public Utilities/Cooperatives/Government	
Aspen/Pitken County (CO)	Monroe (NC)
Baldwin County (AL)	Navopache Electric Cooperative
Boston (MA)	Orange County (FL)
Cabarrus County (NC)	Pasadena (CA)
Charlotte (NC)	Portland (OR)
Charlotte/Mecklenburg (NC) Police Department	Port of Portland
Charleston Water Supply	Raleigh (NC)
Concord (NC)	Rappahannock Electric Cooperative
Fayetteville Public Works Commission (NC)	Salt River Project (AZ)
Gastonia (NC)	Shenandoah Valley Electric Cooperative
Greenville County (NC)	Tacoma Water
High Point (NC)	University of North Carolina
Kansas City Board of Public Utilities	
Investor-Owned Utilities	
Alabama Power Company	Northern Indiana Public Service Company (NIPSCO)
Allegheny Power	Northeast Utilities
Atlanta Gas Light Resources	NSTAR
BC Transmission/BC Hydro	Oncor (TXU Energy Delivery)
ConEdison	Pacific Gas & Electric (PG&E)
E.ON US (LG&E)	Piedmont Natural Gas Company
EPCOR	Portland General Electric
Exelon Energy Delivery	Sempra
Florida Power & Light (FPL)	South Jersey Gas
Georgia Power Company	Southern Company
Hawaiian Electric Company, Inc. (HECO)	Union Gas
Hydro One	United Illuminating Company
Laclede Gas Company	Westar Energy
Mississippi Power Company	
Other	
ESRI	PBS&J
General Electric	Quanta Technology
Gold Fields Exploration	Solvera
Honeywell	Time Warner Cable
Jeppesen	Technology Edge
Level 3 Communications	

