

# Enabling Enables Cutting Edge Multiutility GIS For IRIDE Energia Bentley Geospatial Server

*IRIDE Energia is part of a recently formed entity called IRIDE Group. IRIDE Group is one of the main Italian multi-utilities comprising companies that manage water, electricity, public lighting, gas, and district heating networks. IRIDE Energia uses Bentley products to support its multi-utility GIS system and the company's geospatial engineering workflows.*

By Richard Zambuni



Courtesy IRIDE Energia.

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The goals behind this new GIS were to achieve even higher efficiency in the management of the multi-utility networks that the company operates. The objective was to achieve a minimum increase in productivity of 20% across many functions such as planning, engineering design, field engineering and customer service, all of whom use the new system. The new system is built around Bentley's V8 XM Edition products, all of which are XML Feature Modeling (XFM) enabled. The system utilizes Bentley Map for map management, engineering design and data update processes. The Bentley Geospatial Server supports a number of functions including enterprise access to Oracle spatial, workflow management, enterprise printing/plotting/publishing, and engineering documentation management across a distributed enterprise. In addition, IRIDE Energia uses Bentley Geo Web Publisher for publishing GIS and engineering information to the company's Intranet.

The reasons that Bentley technology was chosen are:

- All of Bentley's products are intra-operable one with another
- The products support a service oriented architecture

- The products support an industry standard database in the form of Oracle Spatial
- XFM technology reduces the cost of system upgrades since no re-coding is required to support the integration between various applications when software is upgraded
- Bentley products support Web services

## SAP

Bentley Geospatial Server has brought substantial benefits to IRIDE Energia: Bentley Geospatial Server allows the GIS database to be integrated with SAP (for ERP) and with the existing CRM system so that system maintenance information and customer data can be accessed and analyzed spatially by the GIS group and the management team.

Bentley Geospatial Server is also used to support the work order management process through its configurable workflow capabilities. Managers can now easily access information on the status of any work order.

The Bentley Geospatial Server also supports multi-mode editing of the GIS and engineering data. Bentley Geospatial Server enables live, multi-user editing of Oracle Spatial data and also "offline" editing where data is taken into the field, redlined or updated and then synched back into the database. The XFM technology makes this an easy and reliable process.

The new GIS system also takes advantage of the network connectivity logic to track the network from any start point to an end user location or outage point.

Further, any object can be queried to determine its source of power, maintenance activities can be simulated and customers affected by outages can be identified in real time and alerted correspondingly.

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For more information, have a look at:  
IRIDE Energia: [www.gruppo-iride.it](http://www.gruppo-iride.it)  
Bentley: [www.bentley.com](http://www.bentley.com)