**BILBAO TRANSFORMS ENTERPRISE AND PUBLIC USE OF SPATIAL DATA AND SERVICES USING INTERGRAPH SDI**

City Creates Comprehensive Spatial Data Infrastructure for Enhanced Information Resources and Public Services

**IDENTIFYING GOALS**

Bilbao City Council serves a population of more than 335,000 people spread across eight districts of Spain and covering 40 square kilometers. The city employs 2,400 staff members and is comprised of 14 departments that previously operated using several individual geographic information systems (GIS) that did not interact. These desktop applications greatly limited data information sharing and created slow lead times for promoting municipal awareness for both employees and citizens of Bilbao.

**OVERCOMING CHALLENGES**

- Create a consolidated and comprehensive infrastructure for geographic data
- Improve data coordination and reuse across multiple departmental systems that use GIS software
- Integrate spatial information and capabilities with Bilbao’s enterprise business applications
- Build a public access municipal geo-data portal to simplify the creation of public services while increasing efficiency, transparency, and accessibility

**REALIZING RESULTS**

The City of Bilbao selected Intergraph’s spatial data infrastructure (SDI) solution to provide a definitive geoportal source of spatial information within the municipality and equip employees with key tools to support decision-making, such as map-based data searches, analysis, and editing. SDI facilitates simple and efficient data sharing and collaboration with other governmental agencies through standards-based information exchange.

For the public, Bilbao’s geoportal, named GeoBilbao, offers a fast and simple way to access information and services using a Web browser, without the need to install software. Its development involved the consolidation and migration of several existing online services and integrating them with the municipality’s website to support public information services.
This project also established a common development environment for the city’s map-based Web applications that leverages the standardized components of the new portal. These resources will help ensure simple, flexible, and sustainable integration of both internal systems and public access e-government services.

“Citizens can now access a diverse set of geo-referenced information (e.g., traffic density, parking occupancy rate, video camera feeds) using real-time data,” says Manu Roibal, CIO, Bilbao City Council. “Using Intergraph’s SDI solution, Bilbao citizens can also obtain information on public facilities and infrastructure, WiFi zones, acoustic levels, and maps of electromagnetic emissions.”

Figure 1: GeoBilbao’s real-time traffic flows and camera feeds

Figure 2: GeoBilbao’s traffic sound levels

Figure 3: GeoBilbao’s facilities and tourism information, including WiFi hotspots and restaurants

ABOUT INTERGRAPH

Intergraph is the leading global provider of engineering and geospatial software that enables customers to visualize complex data. Businesses and governments in more than 60 countries rely on Intergraph’s industry-specific software to organize vast amounts of data to make processes and infrastructure better, safer and smarter. The company’s software and services empower customers to build and operate more efficient plants and ships, create intelligent maps, and protect critical infrastructure and millions of people around the world.

Intergraph operates through two divisions: Process, Power & Marine (PP&M) and Security, Government & Infrastructure (SG&I). Intergraph PP&M provides enterprise engineering software for the design, construction, operation and data management of plants, ships and offshore facilities.

Intergraph SG&I provides geospatially powered solutions, including ERDAS technologies, to the public safety and security, defense and intelligence, government, transportation, photogrammetry, and utilities and communications industries. Intergraph Government Solutions (IGS) is a wholly owned subsidiary of Intergraph Corporation responsible for the SG&I U.S. federal and classified business.

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