

## Intergraph® - Taking a Lead in EU Programmes



### CUSTOMER TESTIMONY

"Our mission is to provide customers with fast, reliable and up-to-date geospatial information for a wide range of property transaction and land use needs,"

"due to the massive volume of requests we receive for such information, our success would not be possible without the powerful, flexible solutions and support from Intergraph."

Tom Dijkstra

Director of Services  
The Netherlands' Kadaster

## THROUGH PARTICIPATION IN LEADING EU PROJECTS FROM ENVIRONMENTAL PROTECTION TO NATIONAL RESILIENCE, INTERGRAPH IS HELPING DEFINE THE FUTURE OF GEOSPATIAL INFORMATION USE IN EUROPE

Outlined below are some of the European Union (EU) projects in the areas of INSPIRE (INfrastructure for SPatial InfoRmation in Europe), data harmonisation and simplified data access which Intergraph is leading or supporting as a consortium member. In addition to these research programmes, Intergraph is also helping national, regional and local government organisations across Europe deliver spatial data services that are connecting government, businesses and citizens.

### GIS4EU



Reflecting the standards and requirements of INSPIRE, GIS4EU aims to increase the interoperability and accessibility of geospatial data by providing pan-European base datasets (administration units, hydrography, transportation networks and elevation themes) that are compatible with respect to scales, language and geographic borders. It includes development of common data models as well as harmonisation, aggregation and data exposition rules and guidelines to enable access to consistent and homogenous reference data for data providers from different countries and levels (national, regional and local) across Europe without the need to construct a central database and service.

The activities provided a critical analysis of three of the four data Themes addressed by INSPIRE (Administrative Units, Hydrography and Transport Network) and provided a common data model for the Elevation Theme. GIS4EU also contributed to the INSPIRE testing process and it is a reference project for the design of the INSPIRE Elevation theme data model. The next steps will address the remodelling of data sets and their publication through the GIS4EU geo-portal.

### HUMBOLDT



One of the most important EU-funded projects, Humboldt addresses the issues and goals of two major EC initiatives: INSPIRE and Global Monitoring for Environment and Security (GMES). Humboldt is contributing to the implementation of a European Spatial Data Infrastructure (SDI) that integrates the diversity of spatial data for a multitude of European organisations. Its main objective is to enable organisations to document, publish and harmonise their spatial information. The software tools and processes created demonstrate the feasibility and advantages of the INSPIRE initiative and of meeting the goals of GMES. Humboldt also contributed to the INSPIRE Data Specification testing process, providing feedback on the Hydrography Theme.

### EURADIN



EURADIN (EUROpean ADdresses INfrastructure), aims to promote European address harmonisation (in respect of the definition, registration and access to European address data) via a best practice network. The emphasis is on ensuring interoperability by defining methods of accessing existing address data and a strategy for establishing access services for national or regional addresses infrastructures. Key deliverables include the proposal for the European Addresses Infrastructure (EAI) and the implementation, testing and validation of an EAI pilot. The results will act as a reference for all European member states to fulfil the INSPIRE recommendations

with respect to addresses.

The project is finalising the definition/refinement of the metadata profile for addresses; guidelines and tools for semi-automatic metadata extraction are in production. The project provided critical analysis of the INSPIRE Address theme data specification schema and submitted testing reports for eight participating countries.

#### NATURESDIPLUS



NatureSDIplus is delivered by a consortium of 30 partners coordinated by Intergraph's partner, GISIG under the 2007 eContentplus call for proposal. Through state-of-the-art methodologies and best practice examples, it aims to improve harmonisation of national datasets and to make them more accessible and exploitable.

The project will consider and contribute to the INSPIRE development process, in particular Data Specifications for Themes related to nature conservation. The project also contributed to Data Specification testing of the INSPIRE Annex I Theme, Protected Sites.

The NATURE-SDIplus workplan considers that regarding the Protected Sites Theme, the project will verify the Data Model proposed by the INSPIRE Drafting Team, while for the other Themes included in INSPIRE Annex III (Bio-geographical Regions, Habitats and Biotopes and Species Distribution), the project has been invited to participate in the definition of the INSPIRE data models, becoming a reference project for these Themes.

#### CAFE

CAFE addresses the development and demonstration of IT solutions for data exchange and reporting under the new EU Clean Air For Europe (CAFE) Directive. Using INSPIRE services, the project aims to develop a prototype tool for reporting and exchanging air quality data in accordance with the CAFE Directive.

Pilot projects have to be performed with national Legally Mandated Organisations (LMO) that have responsibility for air quality monitoring. Intergraph is the lead for Polish case together with Polish LMOs.

The project, which started in January 2009, is working to define a common metadata schema for the Environmental Monitoring Facilities Theme (INSPIRE Annex III). In addition, the study will be a reference project for the definition of the shared common data model for the Environmental Monitoring Facilities Theme.

#### EMERGENCY SUPPORT SYSTEM (ESS)



One of the largest EU funded projects within the Seventh Framework Programme (FP7), ESS will research and development a portable emergency command and control system that incorporates real-time data collection technologies. It will provide actionable intelligence to managers during crisis events and will be used as a framework for future crisis management systems. The system will handle fusion of data, perform information analysis and provide decision support applications for web based command and control systems giving flexible, yet comprehensive coverage of affected areas. The ESS consortium, which is led by Verint Systems, is comprised of 19 leading European technology companies, research institutes and end- user organisations.

#### eSDI-NET+



Funded by the EU's eContentplus programme, eSDI-NET+ is a thematic network aimed at identifying and promoting best practices on SDI through cross border dialogue and exchange throughout Europe. It aims to connect people and foster discussion and knowledge sharing about technical, political and even social-economical challenges and benefits by bringing together European providers, users and developers of SDI. The network also helps to raise awareness of the important role SDIs play in the enrichment and wider reuse of geospatial information.

#### FURTHER INFORMATION

[www.gis4eu.eu](http://www.gis4eu.eu) [www.esdi-humboldt.eu](http://www.esdi-humboldt.eu)  
[www.euradin.eu](http://www.euradin.eu) [www.nature-sdi.eu](http://www.nature-sdi.eu)  
[www.esdinetplus.eu](http://www.esdinetplus.eu) [www.intergraph.co.uk/government](http://www.intergraph.co.uk/government)  
<http://ec.europa.eu/environment/archives/cafe/general/keydocs.htm>  
<http://inspire.jrc.ec.europa.eu>

## ABOUT INTERGRAPH

Intergraph is the leading global provider of engineering and geospatial software that enables customers to visualise complex data. Businesses and governments in more than 60 countries rely on Intergraph's industry-specific software to organise vast amounts of data into understandable visual representations and actionable intelligence. Intergraph'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 and operation of plants, ships, and offshore facilities. Intergraph SG&I provides geospatially powered solutions to the defence and intelligence, public safety and security, government, transportation, photogrammetry, utilities and communications industries.

For more information, visit [www.intergraph.co.uk](http://www.intergraph.co.uk)

