

iSMART

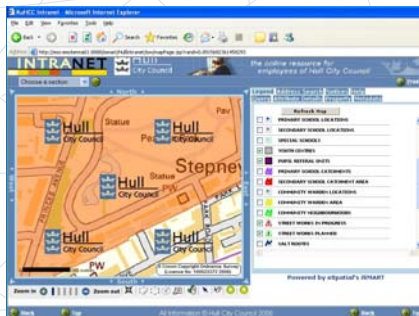
Government Solutions



eSpatial's iSMART for Government Solutions

Deliver Increased Internal Efficiencies and Online Services through Web Applications based on eSpatial's iSMART™

iSMART is eSpatial's off-the-shelf software suite which enables Governments worldwide to incorporate online (Internet or intranet) solutions with web mapping functionality which is easy to deploy, easy to use and supports integrated planning, increased internal efficiencies and enhanced online services to the public. The key feature is Flexibility. Flexibility to deliver tailored solutions based on specific needs as Government departments increasingly look to spatial data for essential urban and rural planning decisions.



Hull City Council - Asset Management & Emergency Management

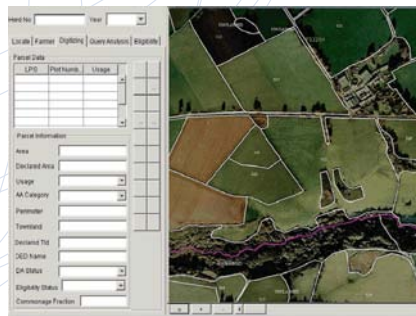
eSpatial and Hull City Council (HCC) implemented a web solution enabling the delivery of Geographic Information (GI) internally throughout HCC over its intranet as well as to the general public over its website. The solution is based on a corporate spatial database providing internal departments with shared access for viewing and analyzing spatial data to support the council's location dependant decision making.

The solution delivers on the vision of online spatial services in line with the core theme of "T-Government" (Transformational Government) - a UK Government initiative to use interactive capabilities to deliver services to citizens and businesses that make a real difference to peoples' lives.

As a timely demonstration of the value provided by the system, the application was extended (at under 48 hours notice) to include additional information to support Emergency Management activities during heavy flooding in the City. Information on ongoing flood management activities (e.g. flooded streets and flood barriers) was made immediately available across HCC.

"HCC now supports both existing and new applications in a single data store greatly reducing data duplication & enabling us to roll out applications based on eSpatial's iSMART that add real value to both the internal processes and how we deal with the general public. These applications are built on the foundation of trusted data residing in Oracle. We were particularly impressed at how eSpatial could quickly customize the application to add Flood information during recent emergencies. This flexibility greatly eased pressures in the incident room as we had a continuous live feed of information shared over the intranet which geographically displayed incidents. Using the same data we were also able to share critical geographic information such as flooded or blocked streets with the public instantly over our website".

Richard Liversedge, Head of ICT & e-Government, Hull City Council



Department of Agriculture & Food, Ireland - Single Payment Scheme based on eSpatial's iSMART

Ireland's Department of Agriculture & Food (DAF) streamlines grant application and payment processes by combining business and geospatial data in a web-based system.

DAF, central government body, whose wide range customer base of over 300,000 encompasses government departments and individual citizens, deployed a **Single Payment Scheme (SPS)** Application jointly developed by eSpatial and Accenture (the international management-consulting and technology services company). The solution integrates application-form processing data with geospatial information which enables the DAF to manage and process Single Farm Payment applications and payments in an integrated and web-based environment. Available to over 2000 internal users and to the farming community, the SPS application has been paying grant aid since 2002.

The SPS application won the award for best project in "Government to Business" category in the prestigious Irish "Innovation through Technology Awards" in 2005.

"Using eSpatial and Oracle technology provides a comprehensive framework for the management and delivery of area-based grant payments, enabling us to meet our EU obligations and provide our farmers with a faster and more efficient service."

"SPS provides a comprehensive framework for the management and delivery of area-based grant payments. Current spatial data is now distributed throughout the organisation and, because grant payments are based on this data, they can be processed quickly and accurately."

Philip O'Reilly,
Assistant Secretary General,
Department of Agriculture and Food, Ireland.



US Department of Defense - MilitaryHOMEFRONT LBS

Based on eSpatial's iSMART, the US Department of Defense MilitaryHOMEFRONT portal provides a Location Based Services (LBS) solution with a Mobile Application which contains information on over 250 US installations and communities worldwide. Using an intuitive interface, the Military Homefront application provides US service personnel and their families with a one-stop on-line information resource detailing available services and facilities on and near their selected facilities.



Visit the MilitaryHOMEFRONT live site at www.militaryhomefront.dod.mil or www.militaryinstallations.dod.mil
Visit the Mobile version at <http://militaryinstallations.dod.mil/mobile>

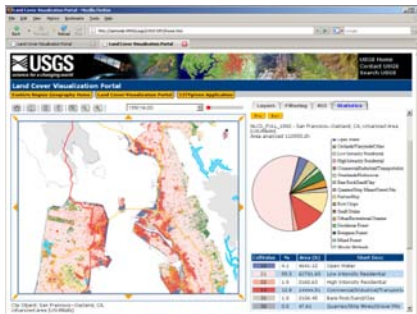
"We are excited about the capabilities this system provides us with, especially on a mobile platform as we can truly support troops and their families on the move"

Lieutenant Colonel R. Lao,
Program Manager



eSpatial can help

We understand the pressure to meet expanding requirements and increased customer expectations whilst operating in a climate of intense budgetary constraint. In response to these needs and pressures, eSpatial will work with you to make more efficient and effective use of your spatial data for better customer service and increased internal efficiencies.



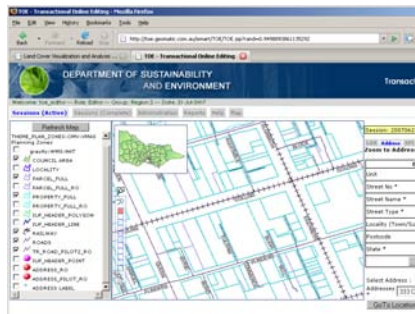
USGS - National Land Cover Visualization and Analysis Tool

iSMART based web tool provides enhanced access to the USGS National Land Cover Dataset from any web browser. Developed using eSpatial's iSMART® product suite, the system provides an intuitive web interface enabling users to selectively view and analyze the nationwide National Land Cover Dataset (NLCD) over the Web.

Jointly developed by USGS and eSpatial the USGS Land Cover Visualization and Analysis Tool allows users to visualize, in specific detail, how land cover has changed over time. The web-based system provides an intuitive interface enabling users to selectively view and analyze land cover data, vector and imagery for the entire United States from any web browser.

"The National Land Cover Dataset has to date been a largely untapped resource. It contains a host of information useful to managers of public and private lands, urban planners, agricultural experts, and scientists alike. Making it easily accessible over the web and showing changes over time opens the potential of this rich dataset to wider audience"

Barbara Ryan,
USGS Associate Director for Geography



Victoria State Government, Australia - Web Editing Solution

iSMART based web application delivers increased efficiency & accuracy of mapping data by connecting data users to data custodians

eSpatial, in partnership with Geomatic Technologies (GT) introduced an advanced web editing solution to the Department of Sustainability and Environment (DSE) in Victoria, Australia. The principle behind the system is very simple – allow data originators who are responsible for key record creation throughout the State to correct or update the authoritative mapping data directly using long transaction mechanisms users can view and edit their own data over the internet from any web browser. With strict quality control processes built into the application, updates can be incorporated into the State dataset in a fraction of the time.

"Increasing the efficiency and accuracy of our mapping data is a core requirement. By trialling this map based editing system we are able to empower the data originators to make modifications to components of the State database that they know better than anyone – allowing us to focus on delivering an improved service to our customers."

"This approach results in higher quality & more accurate data, reduces resource requirements & increases efficiencies for all parties involved in the process."

Bruce Thompson,
Director, Spatial Information Infrastructure
Department of Sustainability and Environment (DSE)



City of Houston's Work Order and Service Monitoring Application

Based on eSpatial's iSMART®, the City of Houston's Public Works and Engineering Department has deployed a Work Order and Service Monitoring Application. This application extends an existing works management system that registers problems derived from customer complaints or inspections, resources used to solve those problems (materials and labor), and tracks the budget dedicated to water and wastewater issues and maintenance. iSMART extends this system by providing a Web based, enterprise solution integrated with reporting and monitoring tools. The system analyzes historic data and represents this data in a graphical and easy to use manner that permits the users to view the work status over maps of the City of Houston and the amount of Work Orders / citizen requests accumulated in specific areas.



"We chose eSpatial's iSMART as the basis for our Work Order and Service Request Monitoring System because of the native Oracle support and the ability to build an application embedded within our current infrastructure."

Brenda Kirkling,
Manager of the Dispatch Center



iSMART for Local Government Solutions Framework:

eSpatial have developed a packaged offering to address the needs of its Local Government customers. The iSMART for Local Government Solution Framework is built on the core iSMART product and provides the following core features:

- Spatial Data Store and management tools based on Oracle's Location technologies
- A customisable web based application for internal (Intranet) and public (Internet users)
- Support for fine-grained permissions to access key system features
- Web-based spatial data capture requiring no down-loads or plug-ins
- Address searching with support for various address gazetteers
- A query tool for all layers and data in the system & export of results to MS-Excel, or XML.
- Display of property-related data & 'where's my nearest' attribute information
- Management & display of ISO-19115 & ISO-15836 compliant metadata
- Support for near real-time data feeds from various sources e.g. Street works data
- A reporting tool to generate tailored PDF reports for the current map view
- Full development API allowing for the development of new application components
- OGC compliant data sharing including WMS, WFS and GML
- Flexible licensing mechanisms allowing for unlimited internal & external users.

Why iSMART?

Ease of Use

iSMART's off-the-shelf products and application frameworks and component libraries have been designed with usability in mind. Delivers on the needs of a business user while providing extensive customisation enabling the product to be tailored to meet specific requirements. This reduces the need for specialist Data Administrators.

Ease of Deployment

iSMART can be deployed in a configuration which suits your needs. This included tailoring of a specific instance on your infrastructure or external hosting of the service and embedding within your government access portal. Using 100% web delivery ensures your infrastructure and deployment needs are catered for.

Ease of Integration

iSMART is built on Open industry standards including Java & Oracle and is designed to integrate into your existing enterprise systems using standards such as SQL, LDAP and XML. These make the integration of spatial functions into traditional business applications a much easier task. The server component, iSMART Server, sits on J2EE application servers such as 10gAS which are designed to scale through enterprise grade clustering and security all of which iSMART inherits.

Extensibility

iSMART has been built based on active feedback from our clients. iSMART's application framework for Government Solutions delivers on specific government requirements in an intuitive web-based user interface. Up to date information can be delivered internally and externally to the public and other government agencies.

Innovative services for your customers

iSMART allows you to deploy innovative new services within a single framework. These can include advanced public feedback features such as direct web-based feedback and reporting on local conditions and services. Possibilities include reporting of faulty public equipment (e.g. street lights) or a simple application to report locations of litter or graffiti. iSMART'S unique pure-web data capture facilities allow such examples to be deployed easily. In addition custom reports can be provided to illustrate service improvements in your area.

Embraces the Geospatial future

iSMART is built to support the industry data exchange standards being defined by the Open Geospatial Consortium such as Geography Markup Language (GML), Web Mapping Service (WMS) and Web Feature Service (WFS). These standards will help integrate your service easily with other progressive organisations.

Fast and Economic to deploy

iSMART can be deployed within weeks. Unlike traditional GIS technology, iSMART is not licensed by user but per CPU/server – allowing you to add other applications and users at no additional cost.

Ease of Management

iSMART provides a web based user, data and application management interface that greatly reduces the overhead of initial set-up and ongoing maintenance of the system.

About eSpatial

eSpatial is a global software and consulting company specializing in GIS (Geographical Information Systems) and Location Services. eSpatial leverages ten years of Oracle Spatial experience to deliver sophisticated and powerful web applications. We have a consistent track record of cost-effective solutions that deliver significant return on investment for our customers. iSMART®, our award winning software suite, is the most comprehensive solution to complement Oracle's Spatial technology platform and is fast becoming the first choice for Oracle Spatial.



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