

## CASE STUDY

**CUSTOMER:**  
The Forest Service (part of Department of Agriculture & Food (DAF), Ireland)

**SOLUTION:**  
Deploys a Forestry Inventory Management System (FIMS) based on eSpatial's iSMART®

A key factor in The Forestry Service's choice to use eSpatial's iSMART as the basis for the Forestry Inventory Management System was the ability to build an application embedded within the department's existing infrastructure.

Through FIMS, the Forest Service, Dept of Agriculture & Food (DAF) has provided Forestry Grant applicants with a facility to submit applications for Forestry Plantation Approval over the Internet.

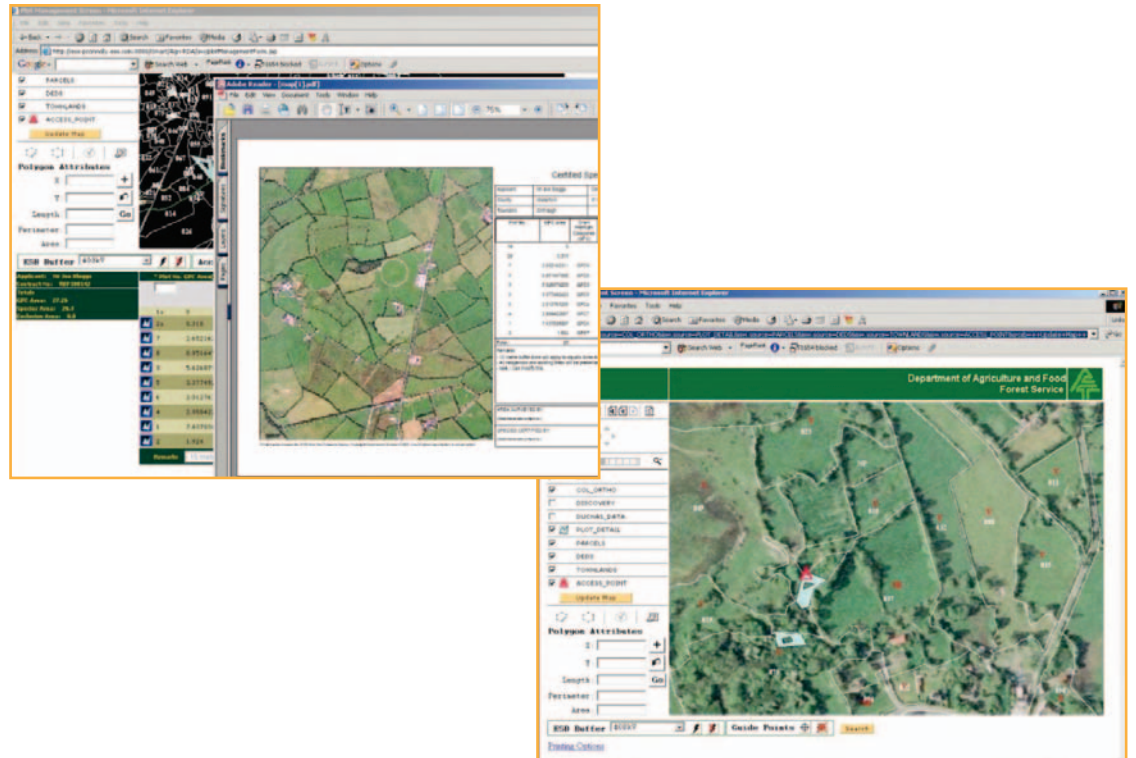
### Overview:

The Forest Service is responsible for ensuring the development of forestry within Ireland to a scale that maximises its contribution to national socio-economic well-being on a sustainable basis that is compatible with the protection of the environment.

A team consisting of Accenture and eSpatial developed The Forestry Inventory Management System (FIMS) using eSpatial's iSMART® Product Suite and Oracle technology.

The system is built using an open, standards-based, platform-independent architecture, rather than separate GIS infrastructure, resulting in complete flexibility and compatibility. Deployment within the Oracle environment additionally ensures reliability, scalability and security.

Prior to the introduction of FIMS, applicants were submitted as hand-drawn maps and hand-written application forms to the Forest Service. FIMS Application now permits the applicant to submit both their maps and form data electronically over the Internet.



### ADVANTAGES FOR FOREST SERVICE:

The main advantages that FIMS provides to Forest Service are:

- *The FIMS Application is pure html based, thus resulting in no requirement for any large downloads to the client and facilitating the Applicant to process applications over standard Internet browsing bandwidth, resulting in a more efficient business process between the Forest Service and their customers*
- *The Applicants have been provided with the ability to “Redline Digitise” their Plots to a database whilst viewing and overlaying existing layers within the DAF Production Database, thus increasing the accuracy of each application*
- *The Applicants have the ability to print the Contract just applied for. This consists of printing the “redlined work” on top of the Orthophotography and the existing DAF Parcel Layer allowing them to verify their application*

ORACLE  
SPATIAL

iSMART<sup>5</sup>



THE DEPARTMENT OF  
AGRICULTURE & FOOD  
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## Why eSpatial?

A key benefit for the Forestry Department is the fact that FIMS is developed on an existing infrastructure within the Department called iMAP, leveraging existing hardware and software licensing as well as leveraging their existing spatial dataset

The iMAP system, which integrates application-form processing data with geospatial information, enabling DAF to manage and process EU Area Aid applications and payments in an integrated and web-based environment.

iMAP is built on eSpatial's iSMART® technology, which draws upon the spatial capability within Oracle 8.1.7 Database and Oracle9i Application Server.

Since the deployment of this iMAP in 2002, DAF have reused this existing infrastructure to deploy

- ***A read-only version of iMAP for farmers to access, called "iMAP Internet",***
- ***A Portal for the Forest Service Inspectors to facilitate environmental checks***
- ***Single Farmer Payment Application***
- ***A forestry grant payments system called iFORIS***
- ***FIMS***

## About eSpatial

eSpatial, founded in Dublin, Ireland and with offices in the USA, is a world leader in enterprise strength spatial information management technology. Its advanced spatial environment, iSMART, provides a platform for highly scalable and secure spatially enabled applications in a standard enterprise IT environment with unprecedented ease of use, manageability and support for OGC Web Services. Its standards based Rapid Application Development environment and GeoPortal allows organisations to quickly and easily build new applications (or extend existing ones) to include spatial functionality. These applications provide spatial intelligence to anyone, anywhere, on any device, connected or disconnected. eSpatial's technology is used in every area of IT including Public Sector, Defence, Telecommunications and Utility organisations.