

# CASE STUDY

**CUSTOMER:**  
Portuguese Wine and Vineyard Institute (IVV)

**SOLUTION:**  
online viewing  
online editing  
offline editing

eSpatial enables IVV, part of the Ministry of Agriculture, to streamline their vineyard management business processes, by implementing an organization-wide system for the capture, maintenance and analysis of spatial and business data.

### The Consortium:

eSpatial are working closely with other companies as part of a consortium.

Novageo, are a GIS systems developer and consultancy company with significant experience in the Portuguese GIS market.

ParaRede are a well-established Portuguese Systems Integration company, with extensive project experience using Java, J2EE, Oracle. eSpatial's role within the consortium is to provide its iSMART® technology, and support Novageo in the development of the spatial components of the system.

### The Solution:

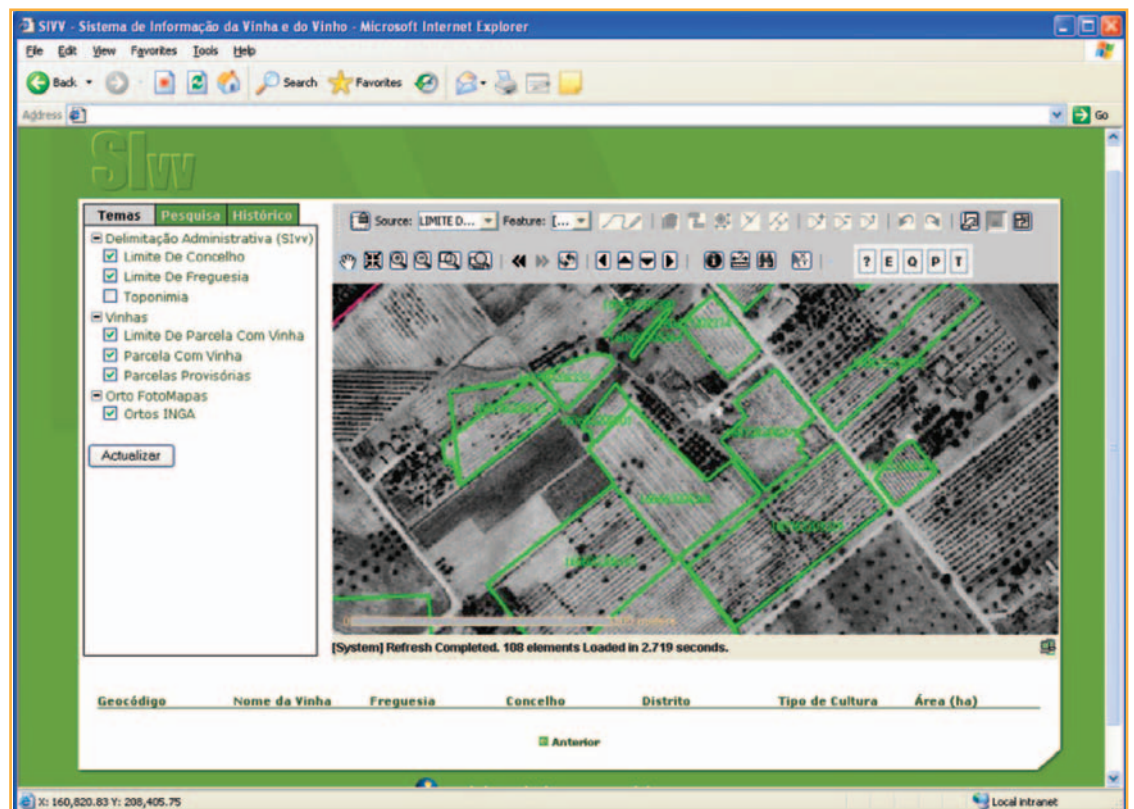
There are three main spatial components in the system:

- **online viewing**
- **online editing**
- **offline editing**

These components will be available to different user types. The online viewing component is designed to allow individual farmers to view their vineyard parcels over the internet. It also allows them to submit applications, and print information about their holdings.

The online editing component is designed for use by IVV staff, to allow full digitizing of vineyard parcels. It also allows for maintenance and analysis of all related information.

The offline editing functionality is to be used by inspectors to verify what exists in the field is consistent with what exists on the system, and make amendments accordingly



## The Architecture

The system is designed as a J2EE application, deployed on Oracle's 10g Application Server, backed by an Oracle 10g Database.

The flexible architecture of eSpatial's iSMART technology, allows for complete integration within such an architecture, while fully leveraging the spatial capabilities of the database

## Key Benefits

- **Provide a fully-integrated, complete database for all vineyard information in Portugal**
- **Streamline, and closely integrate all business processes within IVV**
- **Facilitate comprehensive analysis of the data**
- **Allow for compliance with EU regulations regarding payment of agricultural grants**

## 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, in conjunction with Oracle Spatial, 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.

