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# RESEARCH & INTELLIGENCE

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WORLDWIDE

# Enterprise-Wide System for Agricultural Schemes



## Business Context

The Welsh Assembly Government was looking to develop a centralised system of releasing subsidy payments, under Common Agricultural Policy (CAP) to farmers in compliance with European Union guidelines. The CAP is a system of European Union agricultural subsidies and programmes whose aim is to provide farmers with a reasonable standard of living, consumers with quality food at fair prices and to preserve Europe's rural heritage. EU farm ministers adopted a fundamental reform of the CAP and introduced a new single payment scheme or Single Farm Payment (SPS) for direct subsidy payments to landowners.

## Challenges

There was an immediate need to design and develop an IT system to handle multiple business requirements and consolidate various databases to replace ad hoc, disconnected and manual systems. The single payment solution was needed to prevent fraud and follow to EU subsidiary guidelines.

## Solution

New applications were developed by RMSI through the Siemens - RMSI - Landmark consortium to perform spatial editing and migrate the existing data to the new system as per the system design. The key elements comprised an online web attribute editor, and a spatial editor.

- A Web-based online viewer to thematically view queries and plot the areas of interest
- Scheme editing system created on an ArcGIS engine that has easy-to-use and robust editing features
- Enhanced Digital Mark-up (EDMU) - Offline field mark-up system which enable field officers to digitally mark-up changes to a parcel of land
- Plotting/PDF generation engine - A tool to facilitate single/batch plotting in different templates, and creation of plots as PDF's, which helped field mark-up inspection officers to validate information farmers provided during prior inspections

I have worked with RMSI on a number of GI projects including data capture, system development and system support from June 2001 to the present date. I have been completely satisfied with the quality of their work and dedication of their staff, who have delivered the work on time, to budget and to the required specifications.

**Ian Storey**  
**GI Development Project Manager**  
**GI Services Branch**  
**Rural Payments Division**  
**Welsh Assembly Government**

The Common Agricultural Policy (CAP) is a system of European Union agricultural subsidies and programmers whose aim is to provide farmers with a reasonable standard of living, consumers with quality food at fair prices and to preserve rural heritage.

## Benefits

- Enterprise-wide system for managing multiple agricultural schemes resulted in a centralised system to update and maintain data for multiple schemes
- Automated cross-checking to identify and stop dual funding – accurate measurement of land, identify erroneous references and duplicate claims
- Resolve agricultural parcel conflicts faster and result in time & cost savings for both the client and their beneficiary end-users
- User-friendly interface that allows even non-Geographical Information Systems (GIS) users to operate the system easily

## About RMSI

RMSI develops innovative solutions that integrate geographic information with niche business applications. The company follows a vertical market strategy and provides comprehensive geospatial and software solutions to clients across the globe, in sectors ranging from land information management, agriculture & natural resources, wireless telecommunications, utilities, core geospatial (cartography, data mapping, migration/conflation, image processing and remote sensing), to the government & multi-lateral funding agencies. RMSI has extensive experience of working for government projects around the globe and in different verticals. RMSI's core competency lies in providing solutions across the entire geospatial value chain – from data, to software development, to modelling, analytics, and consulting. RMSI is owned by Risk Management Solutions, Inc., USA, the world's leading provider of products and services for the catastrophe risk management, and is part of one of the UK's largest listed companies, the Daily Mail and General Trust plc.

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