

Enterprise Wide System for Managing Multiple Agricultural Schemes

Business Context

The National Assembly of Wales was looking to develop a centralized system of releasing subsidy payments, under CAP (Common Agricultural Policy) to the farmers in compliance with European Union guideline. The Common Agricultural Policy (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 rural heritage. EU farm ministers adopted a fundamental reform of the Common Agricultural Policy (CAP) and introduced a new Single payment scheme (or Single Farm Payment (SPS) for direct subsidy payments to landowners.

Challenges

Overcome the challenge of having adhoc, disconnected and manual systems in place there was an immediate need of design, development of the system for handling multiple business requirements and consolidation of

databases. Develop a single payment solution to prevent fraud and conform to the European Union subsidiary guidelines.

Solution

New applications were developed to perform spatial editing and migrate the existing data to the new system as per the new system design. The key elements of this system comprised of 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 Markup (EDMU) - Offline Field Markup System which enable field officers to digitally mark up changes to a parcel of land

I am currently the project manager responsible for the development and support of the GI Systems to hold and manage an agricultural field register in support of agricultural subsidy payments in Wales. 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

- Plotting/PDF Generation Engine - a tool to facilitate single/batch plotting in different templates, and creation of plots as PDF's, which helped field markup inspection officers to validate information farmers provided during prior inspections

Benefits

- Enterprise Wide System for Managing Multiple Agricultural Schemes resulted in a Centralized 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-GIS users to operate the system easily

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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 Sending), 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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