

Wyndham City Council implements a web-based geospatial data management system



CENTRALISED SOLUTION PUTS DATA IN THE HANDS OF ALL EMPLOYEES

THE CHALLENGE

Wyndham is one of the fastest growing municipalities in the State of Victoria, Australia. Spanning 542km² on a coastal plain on the western fringe of Melbourne, the city encompasses vibrant industrial and technology districts, two major retail precincts and intensive rural growing areas and grazing lands.

Wyndham City Council (WCC) needed to implement a software platform that would grow with the council over the next decade. The primary drivers were the need to better manage spatial datasets and enhance system integration between the current property and rates system and other information management systems.

Outdated product technology, data duplication, distribution delays, lengthy maintenance procedures, integration problems and an inability to comply with trends towards mobile computing were all reasons for WCC to look into geospatial technology capabilities.

Some of the key requirements were:

- Web based browser, accessible to internal and external users
- Spatial database – for storage of geospatial data in one centralised location
- Facility for power users to undertake their own spatial analysis
- Mobile computing capability
- Room for further development

THE PROJECT OBJECTIVE

Implement a new web-based mapping system that would be used as a portal to a range of WCC's existing information management systems.

PROFILE:

Name – Wyndham City Council

Located midway between the State's two largest urban centres, the City of Wyndham is 30km south west of the Melbourne Central Business District and approximately 35km north east of Geelong. Spanning 542km² on a coastal plain on the western fringe of Melbourne, it is one of the fastest growing municipalities in Victoria and is supported by one of the State's most dynamic and progressive local authorities.

- Current population 115,055 increased by 6.7% in 2005
- Wyndham's percentage of total dwelling approvals across Melbourne for the year ending June 2005 was 8.3%
- 542 sq km on a coastal plain of the western fringe of Melbourne
- Strong industrial and technology precincts. 8.9% of the total area
- Intensive vegetable growing areas and grazing land. 51.9%
- Urban Residential area 12% of the total coverage

Total revenue – \$137,612,000 AUD

Total Assets – \$755,176,000 AUD

Total Liabilities – \$26,769,000 AUD

Net Assets – \$728,407,000 AUD

Total Staff – 461 full time staff and 26 casual

PRODUCTS USED:

- GeoMedia
- GeoMedia Professional
- GeoMedia WepMap

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THE SOLUTION

A solution based on Intergraph's GeoMedia suite was implemented. The project can effectively be divided into three stages:

Implementation

WCC employed a centralised SQL server database which simplified data management and maintenance. Whilst, the implementation was successful, a number of issues, namely the quality of existing data sets, change management and slower than expected map generation speeds were highlighted. The issue of change management for existing geospatial data users was overcome by overview sessions and training. The data quality issue remains an ongoing problem, slowly being rectified. The slower map generation times have improved by loosening the property and rates system integration and better management of the feature class scale settings.

Customised enhancements

The desktop GIS and server/client solution provided the framework for the councils' spatial information. A number of software enhancements using VBScript and Delphi have been implemented to improve mobile mapping data integration, extend existing work processes such as maintenance orders, fire hazard notices, system integration with other datasets, including rates analysis, mobile mapping and disaster recovery information systems. The Intergraph team also implemented software functionality to integrate Geomedia WebMap and the property and rates system.

The future direction

The ability to custom program GeoMedia and GeoMedia WebMap will allow the council to expand their existing operations to include 3D mapping, network analysis (street sweeping, stormwater) and the integration of the external GIS with the property and rates system.

Usage of the WCC GIS solution continues to grow - in March 2006 there were 168 unique users. A number of power users have had GeoMedia training allowing them to do their own digitising and spatial analysis. There has been a definite increase in utilising GIS, which is becoming part of staff workflows. The continued integration of spatial information with other core products will ultimately improve management decision making, the service to rate payers and employee efficiency.

WHY INTERGRAPH?

"The GeoMedia and GeoMedia WebMap software integrated very well with each other and we could see how readily the web environment could be modified. The cost of the entire implementation was also an important consideration."

Kerryne Graham, GIS Administrator, WCC

For more information, visit www.intergraph.com



GeoMedia WepMap: Werribee South



GeoMedia WebMap: Inspections

ABOUT INTERGRAPH

Intergraph Corporation (NASDAQ: INGR) is the leading global provider of spatial information management (SIM) software. Security organisations, businesses and governments in more than 60 countries rely on the company's spatial technology and services to make better and faster operational decisions. Intergraph's customers organise vast amounts of complex data into understandable visual representations, creating intelligent maps, managing assets, building and operating better plants and ships, and protecting critical infrastructure and millions of people around the world.



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