

Products Used:

- GeoMedia®
- GeoMedia Professional
- GeoMedia Transaction Manager
- GeoMedia Parcel Manager
- GeoMedia WebMap Professional
- Oracle® Spatial database

Key Benefits:

- Offering a full function, single source GIS solution for sharing and integrating geo-referenced information.
- Minimize custom functionality by use of the core functionality of GeoMedia Professional and GeoMedia Parcel Manager.

Profile:

Name – City of Winnipeg, Canada

Web site – www.city.winnipeg.mb.ca

Winnipeg is the capital city for the Province of Manitoba, Canada, and has a population of 620,000. Winnipeg is situated, geographically, in the center of North America making the city Canada's largest distribution center between Vancouver and Toronto. Winnipeg is one of the few North American cities poised to handle domestic and international distribution of manufactured goods by air, rail, and highway, with direct links to seaports

Size – 178 square miles

City of Winnipeg Planning, Property and Development Department uses Intergraph technology to establish a full-function, single-source land information management system

GeoMedia solutions provide needed capabilities to further city's geospatial objectives enterprisewide

The Challenge:

The Planning, Property and Development Department within the City of Winnipeg is responsible for the delivery of a broad range of services related to real estate, land use and development management, permitting, inspections, surveying and land information management. The department was faced with the challenge of replacing their obsolete geographic data system with a geospatial solution for base mapping, parcel mapping and addressing.



The solution had to be compatible with the City's permitting and licensing system, Amanda from CSDC as well as the Assessment Department's CAMA system. The department's goal was to overhaul their current system and integrate geo-referenced municipal services information, assessment, zoning, and addressing information and 200,000 city parcels, into its new infrastructure. The department also wanted a way to easily maintain the system as new information was received, all within a single environment.

The Project Objectives:

- Preserve the accuracy and integrity of existing and new data
- Store data efficiently in a nonproprietary format using an industry-standard, easy-to-use geospatial solution
- Integrate with existing business systems using a seamless IT workflow

The Solution:

The department implemented a land information management system, using GeoMedia, GeoMedia Professional, GeoMedia WebMap Professional, GeoMedia Parcel Manager and GeoMedia Transaction Manager to share and integrate geo-referenced municipal service information. The success of the implementation of Intergraph's technology in this department created the foundation for GeoMedia technology to be used within other city departments for maintenance of their base map, addressing and assessment parcel databases. GeoMedia WebMap Professional works in conjunction with a staff-developed intranet application, iView, which allows employees access to all spatial information in a format customized for each department.

The City's VAX-based GDS system was successfully replaced with GeoMedia Parcel Manager and is being used for parcel mapping and addressing within their current Oracle Spatial database. The coordinate geometry functionality in GeoMedia Parcel Manager will allow the City to implement



more efficient procedures for base map maintenance. Previously, the City relied on a range of CAD tools that were not always capable of dealing with large or complex new subdivisions, particularly in new areas on the City's outskirts, or where survey problems created integration issues. Combining GeoMedia Parcel with GeoMedia Transaction Manager will provide greater flexibility, and convenience, in testing solutions before applying the updates to the base map database. Intergraph technology allows the City to share and integrate critical data, enterprise wide.

City of Winnipeg land information services administrator, Brian Lund, is confident his department will reap the benefits of a full-function, single-source GIS solution with Intergraph technology to further the City's goal of integrating and sharing critical data enterprisewide with City employees and the public alike.

Many departments within the City exploit the base map, addressing and assessment parcel databases for their mapping solutions and GIS applications. For example, the Police and Emergency Services call centers rely on the database to deploy equipment and services and respond to citizen inquiries. Other benefits of the databases include insect control, forestry management (Dutch Elm disease), electoral boundaries and riverbank management to name a few.

The single source land information management system, powered by GeoMedia, allows the City to maintain its registered parcel database, record changes to property addresses as buildings are built, improved or destroyed, and manage changes to the assessment parcel database as land ownership evolves. Recently, the City of Winnipeg held municipal elections and GeoMedia Professional provided the solution for the City Clerks Department to manage the election mapping, including the reorganization of ward boundaries for some school divisions and council wards.

Future Plans:

The City of Winnipeg's long-term goal is to extend public access to City services such as assessment data by using Internet-based applications supported by GeoMedia WebMap. The City is just starting to reap the many benefits of the enterprise wide geospatial solution from Intergraph. The Planning, Property and Development Department will spend the next several months adding to the growing number of databases that will integrate with the base map, including city-owned land, zoning parcel, survey monument management and many administrative boundaries.

"The Planning, Property and Development Department at the City of Winnipeg are thrilled with the implementation of the new system," says Brian Lund.

"One enterprisewide solution has made data analysis, access, and management much easier and seamless for our staff. GeoMedia solutions have made this possible and we are looking forward to using more solutions from Intergraph in the future."

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Intergraph Mapping and Geospatial Solutions

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