

## Edmonton Finds Location is Everything With Intergraph Technology



Edmonton, home to more than one million people, teamed with Intergraph to develop a central repository where location-based data is kept and available to everyone in the organization.

### CITY BRINGS SPATIAL INFORMATION TOGETHER WITH INTERGRAPH GEOMEDIA® SOLUTIONS

#### THE CHALLENGE:

The City of Edmonton in Alberta, Canada, was one of the first cities to have all of its data in digital format, making that transformation in the 1970s. With newer technology available, the Corporate Services Department within the Information Technology Branch of the city wanted to reduce the number of applications. For example, it had more than 100 land-type applications in its geographic information system (GIS). Edmonton wanted to bring all of its information together, making the data available for maintenance. The city wanted easy access to the information – whether it was the status of a streetlight or the condition of a sidewalk.

#### THE PROJECT OBJECTIVES:

- Develop a central repository for GIS data that everyone could access
- Establish the ability to report and analyze information while integrating it with other corporate applications

#### THE SOLUTION:

Edmonton has a long relationship with Intergraph, having used GeoMedia for its road networking. That proven technology again led it to Intergraph. The city teamed with the company to bring its information together, developing a Spatial Land Inventory Management (SLIM) application for GIS data. Already using GeoMedia software, it implemented Transportation Manager to collect more data. Edmonton used Intergraph's IntelliWhere® OnDemand for collecting sidewalk information. It took advantage of other products in the GeoMedia suite to create a collection of user-friendly information. Other GeoMedia products implemented by Edmonton included Professional, Parcel Manager, Transaction Manager, Transportation Analyst, and WebMap Professional. The city is consulting with Intergraph on implementing the latest version of GeoMedia.

Edmonton is relying on its past experience with Intergraph as it continues to collect useful

#### PROFILE:

Name – City of Edmonton, Alberta, Canada

Web site – <http://www.edmonton.ca/portal/server.pt>

Edmonton is the capital of Alberta and has a growing population of more than one million people. Located on the banks of the majestic North Saskatchewan River, Edmonton is known as Canada's cultural capital, presenting arts and cultural activities throughout the year. Edmonton serves as a staging point for large-scale oil sands projects occurring in northern Alberta and large-scale diamond mining operations in the Northwest Territories.

Size – At 684 square kilometers (264 sq mi), the City of Edmonton covers an area larger than Chicago, Philadelphia, Toronto, or Montreal. Edmonton has one of the lowest population densities in North America, about 9.4 percent that of New York City.

#### KEY BENEFITS:

- Central repository that makes data available to everyone without having to share files
- Accuracy in bringing information together
- Consistency in building information together instead of in isolation
- Application integration

#### PRODUCTS USED:

- GeoMedia®
- GeoMedia Professional
- GeoMedia Parcel Manager
- GeoMedia Transaction Manager
- GeoMedia Transportation Analyst
- GeoMedia Transportation Manager
- GeoMedia WebMap Professional
- GeoMedia Objects
- IntelliWhere® OnDemand

information for city departments as well as its citizens. IntelliWhere proved to be an inexpensive solution in providing information on sidewalk conditions. The city generated pre-defined maps using GeoMedia Objects to detail water and sewer applications and more. It integrated GeoMedia Professional with SAP to manage cemeteries and plot locations.

Intergraph played a key role when Edmonton was developing its SLIM system. The company did some architecture and actual building of the system, along with defining how it would be used. Intergraph also provided a solution for Edmonton in 1997 when the city wanted long-term transaction management and chronological historic data throughout the organization.

The City of Edmonton is one of the frontrunners in recognizing the importance of location-based data. It estimates that about 80 percent of the work it does is based on location. Edmonton used geospatial solutions to build and maintain a GIS, incorporating and matching the data with all of its applications.

System integration allows data to be exchanged from external partners. For example, the nine utilities in Edmonton can all share data. Information comes in throughout the province, including title information on a nightly basis. The city can also sell GIS data and deliver it to companies in any format.

## THE FUTURE

For the City of Edmonton, being a frontrunner with location-based data isn't enough. The city is studying ways to integrate more data that will help it better serve its citizens. One of the key projects for the future is developing a corporate 311 to provide citizens with non-emergency information. Citizens can report things ranging from a pothole to a lost dog, and mapping will be a major component. Edmonton is looking at Intergraph products as part of the solution for the 311 initiative, where reports and statistics can be analyzed.

Edmonton's police and fire departments use dispatch systems in Intergraph's Computer-Aided Dispatch (I/CAD) family. New versions of I/CAD will integrate with the city's GIS database. The city is placing an emphasis on mobility, as well as Web services for

the future with geographic information a priority. As Edmonton continues to grow, Intergraph will be there, offering its solutions and support to improve the city's spatial technology and services.

Wendy Ritchie, director of Geo Edmonton, says incorporation of location data to other applications is becoming more important to most organizations. "My advice to other organizations is to definitely do it and not hold back," Ritchie said. "It is challenging, but definitely worth it in the long run. Location, location, location is really everything. It's very important to a lot of things, especially to what a municipality does."

## TO LEARN MORE

To discover more about the solutions implemented by the City of Edmonton, contact [sales@intergraph.ca](mailto:sales@intergraph.ca).

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## ABOUT INTERGRAPH

Intergraph Corporation is the leading global provider of spatial information management (SIM) software. Security organizations, 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 organize 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. For more information, visit [www.intergraph.ca](http://www.intergraph.ca).

