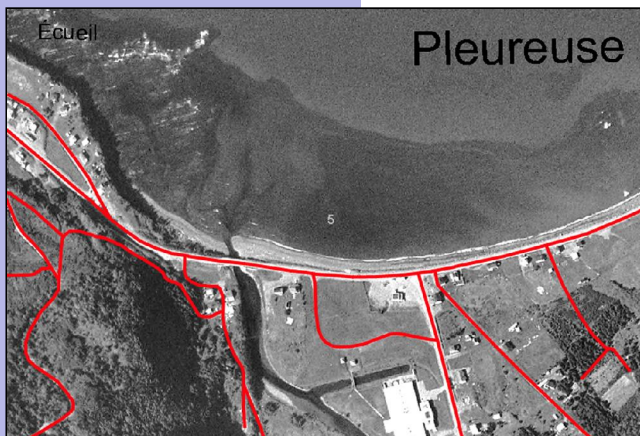


## Case Study

Canadian agency uses GeoExpress and Express Server to reduce storage costs, centralize image management and improve distribution and access.

### Québec Ministry of Sustainable Development, Environment and Parks LizardTech Software Reduces Storage and Distribution Costs for Provincial Agency

Image showing L'Anse Pleureuse on the Gaspé Peninsula in eastern Québec with a road network overlay (enhanced here for illustration purposes) – an example of imagery distributed by the Ministry of Sustainable Development, Environment and Parks to its offices throughout the province for viewing in geospatial applications.



#### Organization

Québec Ministry of Sustainable Development, Environment and Parks

#### Location

Québec City, Québec, Canada

#### Industry

Provincial government

#### Product

Geospatial imagery

#### Customers

Ministry office and field personnel

#### Image Library

1.5 TB of raw image data

#### Website

[www.mddep.gouv.qc.ca](http://www.mddep.gouv.qc.ca)

## Background

The Québec Ministry of Sustainable Development, Environment and Parks promotes sustainable development while protecting natural ecosystems. The Ministry annually receives 10,000 aerial images of provincial territory in color and greyscale, which it uses for ecological analyses. The 1.5+ terabytes of image data currently being processed by the Ministry also include satellite imagery that may be gathered monthly or even bi-weekly for some regions.

## Challenges

The Ministry has more than 20 offices spread around the province, some in remote places with low bandwidth. Personnel at the various locations view geospatial imagery both in web applications and as contextual layers within ArcMap and GeoMedia. Multiple offices were purchasing the same data on CD-ROM for their locations – a costly redundancy in terms of both money and storage space. This decentralized image sourcing also created difficulties in managing and updating the imagery.

The Ministry needed to achieve the following:

- **Efficiently manage, update and distribute imagery from a central location**
- **Make imagery accessible to entire Ministry workforce**
- **Reduce file sizes of stored images while retaining high image quality**
- **Mosaic and compress data in an efficient workflow**
- **Support viewing by analysts using WMS-enabled web applications such as ArcMap and GeoMedia**

## Solution

- **GeoExpress for mosaicking and compression to MrSID**
- **Express Server for efficient distribution to any device over any connection**

The Ministry makes a single purchase of image data, then uses LizardTech's GeoExpress software to convert TIFFs to the industry standard MrSID format, simultaneously eliminating 60% of data storage costs and taking advantage of easy-to-use image processing tools such as colorbalancing, mosaicking and reprojection. GeoExpress retains high image quality.

The Ministry then uses LizardTech Express Server to distribute the imagery among its offices and personnel in the field for use as image layers in ArcMap and WMS-enabled web applications. Now, personnel anywhere can quickly view any of the Ministry's image data from one central, easily updated repository.

*“Using GeoExpress and Express Server reduces our storage costs and enables us to manage images in a central location, which in turn reduces redundancy and increases our efficiency.”*

Directorate of Information Resources  
Québec Ministry of Sustainable  
Development, Environment and Parks

## Benefits

The Québec Ministry of Sustainable Development, Environment and Parks realized the following benefits using LizardTech's GeoExpress and Express Server:

- **Reduced storage requirements** – Savings of 60% in total file sizes
- **Eliminated redundancy** – Central storage, processing, updating and distribution
- **Retention of image quality** – Visually lossless images even at high compression ratios
- **Reduced bandwidth requirements** – Efficient low-bandwidth delivery of large images
- **Easy online viewing** – Images accessible via WMS-enabled web applications such as ArcMap
- **Workflow efficiency** – Combined image manipulation tools and compression capabilities

For more information about LizardTech products, call LizardTech at (206) 652-5211. In Europe, call LizardTech UK, at 44 (0) 870 922 0239. To access purchasing information or find your local LizardTech sales manager, go to: <http://www.lizardtech.com/purchase/purchase/other.php>

For more information about LizardTech solutions, visit: <http://www.lizardtech.com/products/>

For more information about the Québec Ministry of Environment, visit: <http://www.mddep.gouv.qc.ca>

© 2007 LizardTech. All rights reserved. LizardTech, product logos, and product names are either registered trademarks or trademarks of LizardTech in the United States and/or other countries. The names of actual companies and products mentioned herein may be the trademarks of their respective owners.

This case study is for informational purposes only. LIZARDTECH MAKES NO WARRANTIES, EXPRESS OR IMPLIED, IN THIS SUMMARY.

Press contact: Justyna Bednarski, [jbednarski@lizardtech.com](mailto:jbednarski@lizardtech.com)