

**Customer:** Quebec Ministry of Transport (Ministère des Transports -MTQ)

**Project:** Creation of a multi-scale road base map (BGR)

**Duration:** 1998 – 2001

**Scope:** Data integration and normalization

**value:** \$0.5 M

- Highlights:**
- Integration of geographical data and various scales (1:20 000 MRN map sheets, 1:50 000 BDTQ, GPS surveys, paper maps, etc.)
  - Integration and structuring of a very large amount of data:
  - 310 map sheets at 1:20 000, 50 map sheets at 1:50 000, 10 map sheets at 1:250 000
  - Integration of various themes (planimetric data, land divisions, highway fixtures and communication channels, etc.) totaling some 1,000,000 objects.
  - Integration and structuring of ministerial road network (29,000 km) and local road network (92,000 km) covering 250,000 km<sup>2</sup> of territory.

**Description:** The BGR is a geospatial database designed to facilitate management of the Quebec road network and generate MTQ map products.

The goal of the project was to structure the multisource data and create the BGR. A major part of the work involved structuring the elements of the ministerial road network according to hierarchization rules in order to ensure the integrity and connectivity of the elements.

All work was done using the ESRI ArcInfo application, which made it possible to use the ROUTE and REGION structures specific to this technology.

*In images...*



