

" With increasing needs and limited budget, how much money should we spend on our infrastructure assets? "

## How we optimized their infrastructure management

### HIMA™

By integrating your water, wastewater and road networks together for a single repair/replace analysis using Harfan's Infrastructure Management Approach (HIMA™), you can achieve a saving of up to 35%.

*Harfan's team combines the strength of civil engineers experienced in infrastructure management and data-processing professionals to produce unique product and solutions for our clients.*

– **Eric Lalonde**  
Vice-President R&D  
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The Harfan/Dillon team services were retained to examine the City infrastructure needs and the costs related to rehabilitating or replacing portions of the water distribution network. The project also aimed at identifying viable alternatives to maximize both service factors and life cycle costs, while optimizing the financial position of the water utility.

The City of Moncton's annual expenditure on watermain rehabilitation had risen from 600 000\$ in 1998 to 2 350 000\$ in 2002. Since 1997, the City water system had also undergone significant improvements, including the construction of a new water treatment plant and had undertaken a number of network rehabilitation programs.

Thanks to HIMA™, the City of Moncton can now maximize the use of its existing database (depicted graphically in GIS format), including records of activities and a hydraulic model of the network. The final report included a remedial action plan for each system component, and a provision forecast for a 20-year outlook, complete with prioritized work schedule projections, including cost estimates.

Final reporting for the project included:

- ◆ Identification and evaluation of the transmission and distribution system components (piping, pumping, storage and appurtenances) and their present value - essentially replacement cost;
- ◆ Assessment of the physical condition and life expectancy of each system component through the analysis of existing information as well as additional information from field surveys;
- ◆ Identification of the most appropriate remedial action for each system component, including rehabilitation, replacement, operation and maintenance, while maximizing its life cycle in a cost-effective manner;
- ◆ Remedial action plan for each system component and a provision forecast in a 20-year outlook including a prioritized work schedule and cost estimates.

**POPULATION:**  
65 000

**NETWORK MANAGED:**  
Water

**AREA STUDY:**  
City-wide

This case study was done  
in partnership with:

