

Municipal Infrastructure Investment Planning (MIIP)

Objectives

To identify, evaluate and develop tools, procedures, and practices that will help infrastructure managers make strategic and cost-effective planning and management decisions.

Background

Managers of infrastructure assets, such as federal and provincial government departments, municipalities, and universities, have responsibility for expensive, complex property portfolios. Because funds for asset inspection, repair and replacement often fall short of requirements, safety and performance may be compromised. Better tools and practices will improve decision-making and ensure that expenditures are cost effective and optimally allocated.

Statement of Work

The Institute for Research in Construction and its MIIP consortium have evaluated existing asset management practices. The work included the following tasks:

- surveyed the state of asset management in Canada and identified existing tools and techniques used to plan, prioritize and schedule maintenance and construction
- compared, evaluated, and carried out field trials of those tools and techniques using criteria established by experts
- researched decision support software (DSS)
- built, tested and validated a prototype DSS with consortium partners.

Outcomes

This project provided

- manuals and guidelines to help asset managers improve their decision-making,
- prototype decision-support tools for predicting asset deterioration and prioritizing maintenance, which are available to the Partners.

Partners

The cities of Calgary, Edmonton, Hamilton, Ottawa, Prince George, and Regina, the regional municipalities of Durham, Halton, and Niagara, and the Department of National Defence, Canada

Start/Completion Dates

The project began June 1, 2003 and was completed in 2007.

Project Manager

Dr. Dana Vanier: 613-993-9699; Dana.Vanier@nrc-cnrc.gc.ca

For more information, see http://irc.nrc-cnrc.gc.ca/ui/bu/miip_e.html

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