

Asset Management

A Short Introduction

The What
The Why
The Who



- Tjaart Van den Berg
- Matt Delorme

TRACT



LandInfo
Technologies

Project completed in partnership with



This initiative is delivered through the Municipal Asset Management Program, delivered by the Federation of Canadian Municipalities and funded by the Government of Canada

Funded By:





PART

1

The What?

Typical Assets

Water Network

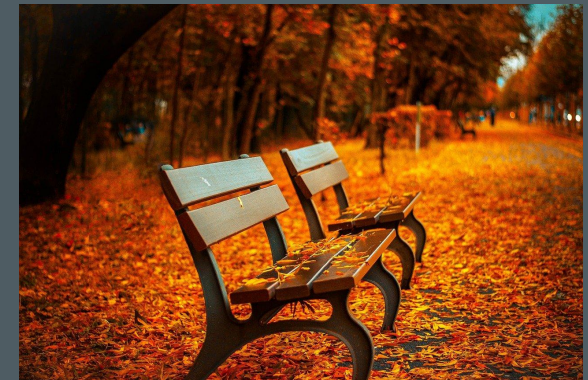
Wastewater Network

Stormwater Network

Transportation Network

Structures, Parks, Recreation

Natural Assets





Typical Services

The quality of service being provided is called the
Level of Service

Provide potable water

Collect and treat wastewater

Collect stormwater

Provide pedestrian walkways

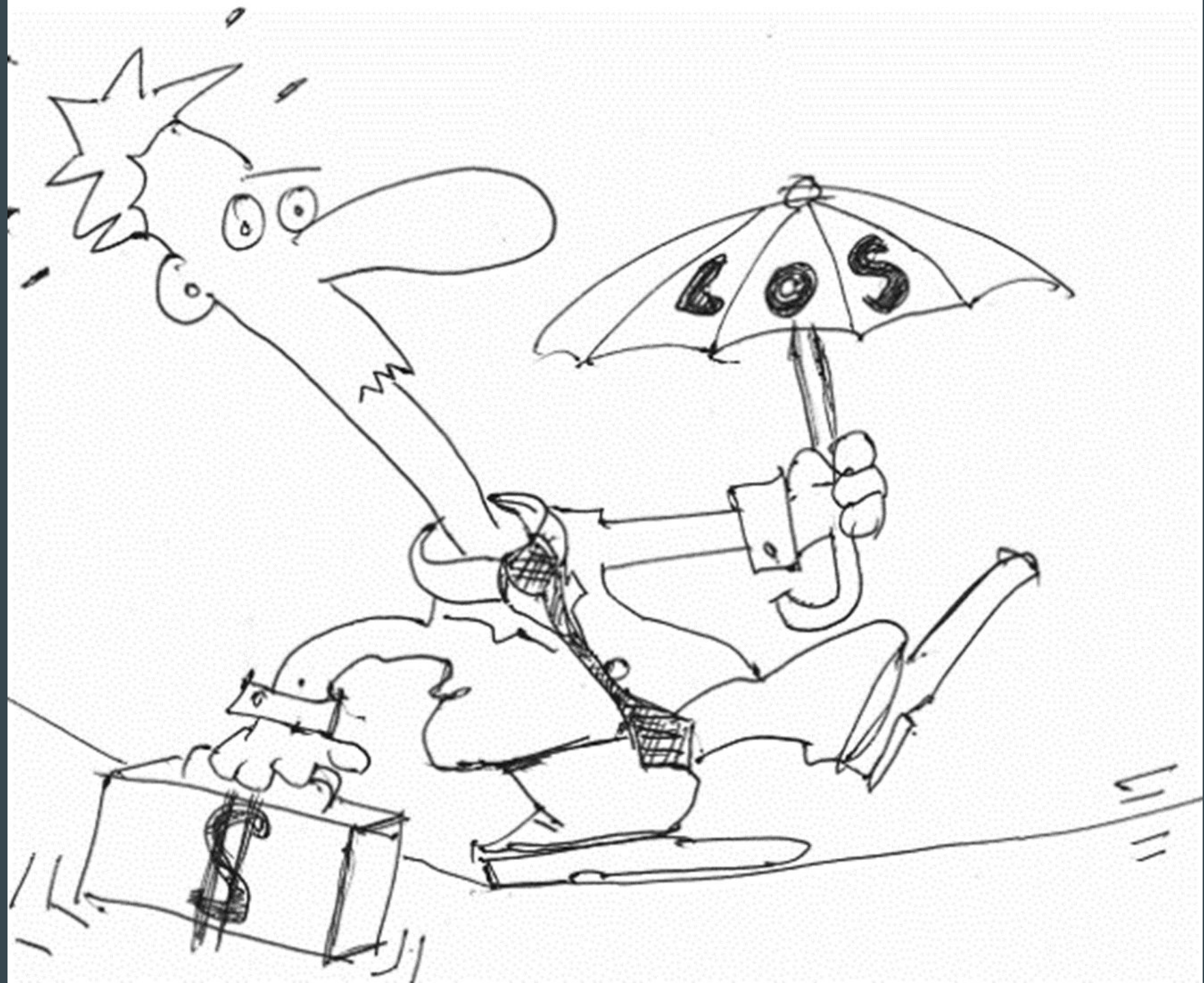
Provide public roads

Provide recreational space

Snow removal

et cetera





noun: Asset Management

A process of making decisions about the use and care of assets to deliver services in a way that considers current and future needs, manages risks and opportunities, and makes the best use of resources.

Asset Management is not

- A project
- A single plan
- Information gathering

Asset Management is

- A process
 - A forward-looking practice
 - Making informed decisions
-

Asset Management Questions



What?

Providing services at an acceptable LoS

A way of doing business

Making informed decisions

Long term outlook

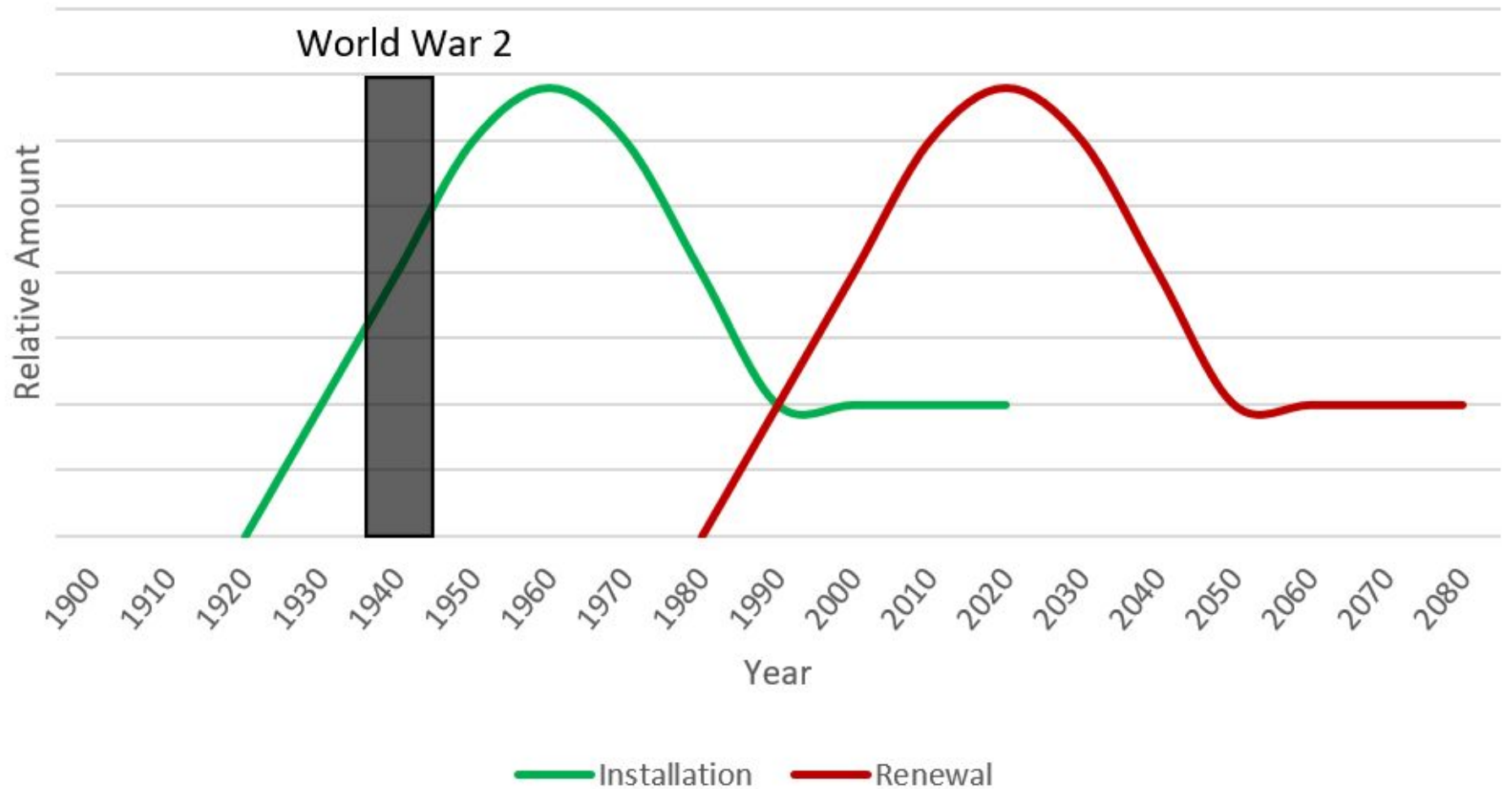


PART

2

The Why?

Historical and Projected Public Infrastructure Trends



Net Stock of Core Public Infrastructure by Level of Government, 2013

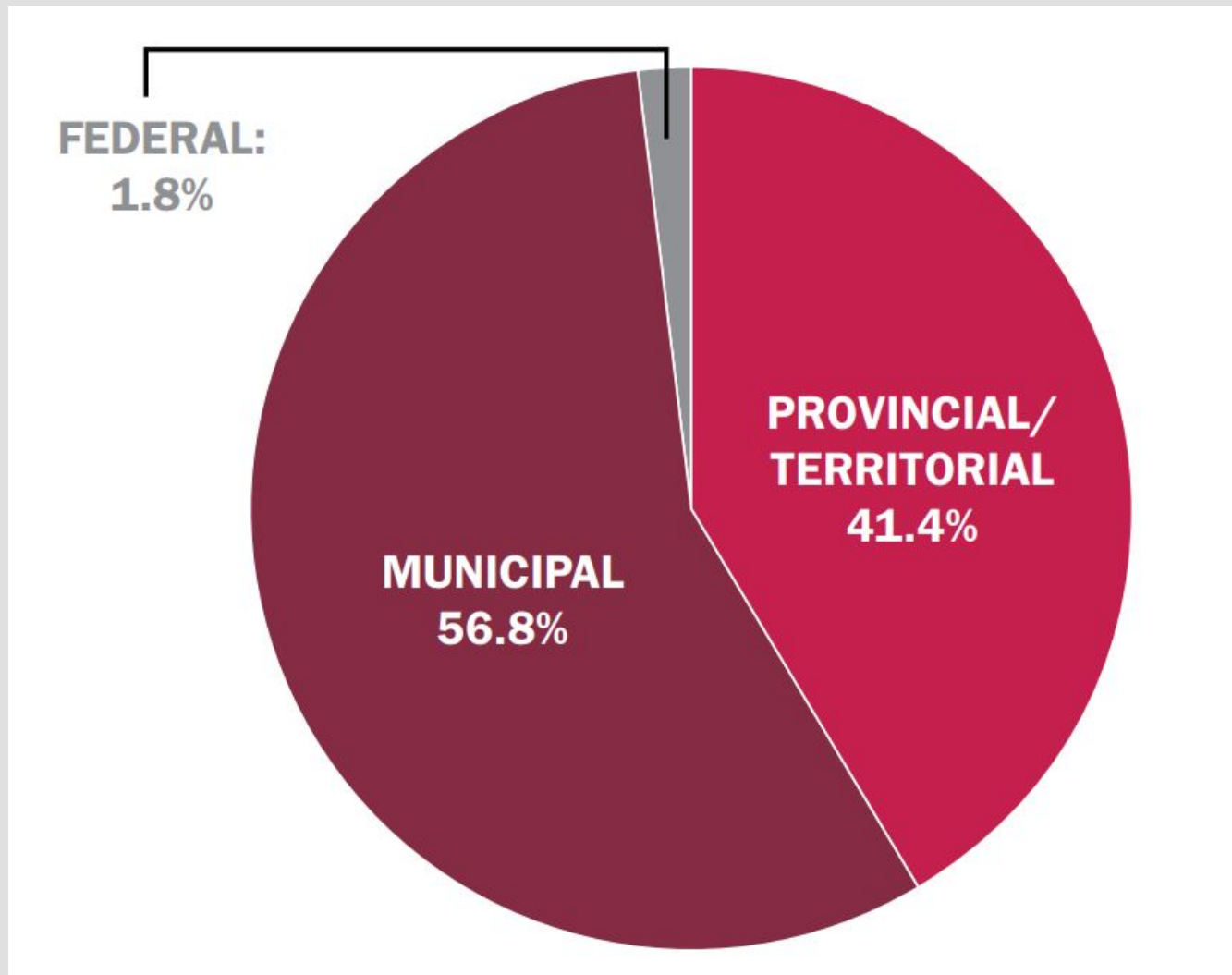


Figure 1, Canadian Infrastructure Report Card 2016

\$40,000
per capita

Rough value of fixed assets

A municipality of 1,000 residents:

\$40,000,000 of infrastructure assets

Average infrastructure lifespan is 100 years

$$\text{Annual Reserve} = \frac{\text{Renewal Cost}}{\text{Lifespan}}$$

Annual reserves may be about \$400,000

**Informed decision-making
is critical for sustainable
service delivery**

External Funding and Asset Management



Idealistically,
municipalities are self-sustaining



Realistically,
external funding is necessary for
sustainable service delivery

External Funding and Asset Management

- Federal, provincial and territorial governments stress the importance of asset management
- Province of NL a major funding source for capital projects
- Asset Management plan a requirement for funding?

Why?

Aging infrastructure

Substantial value

Needs to make informed decisions

Important for funding applications

PART

3

The Who?

Public

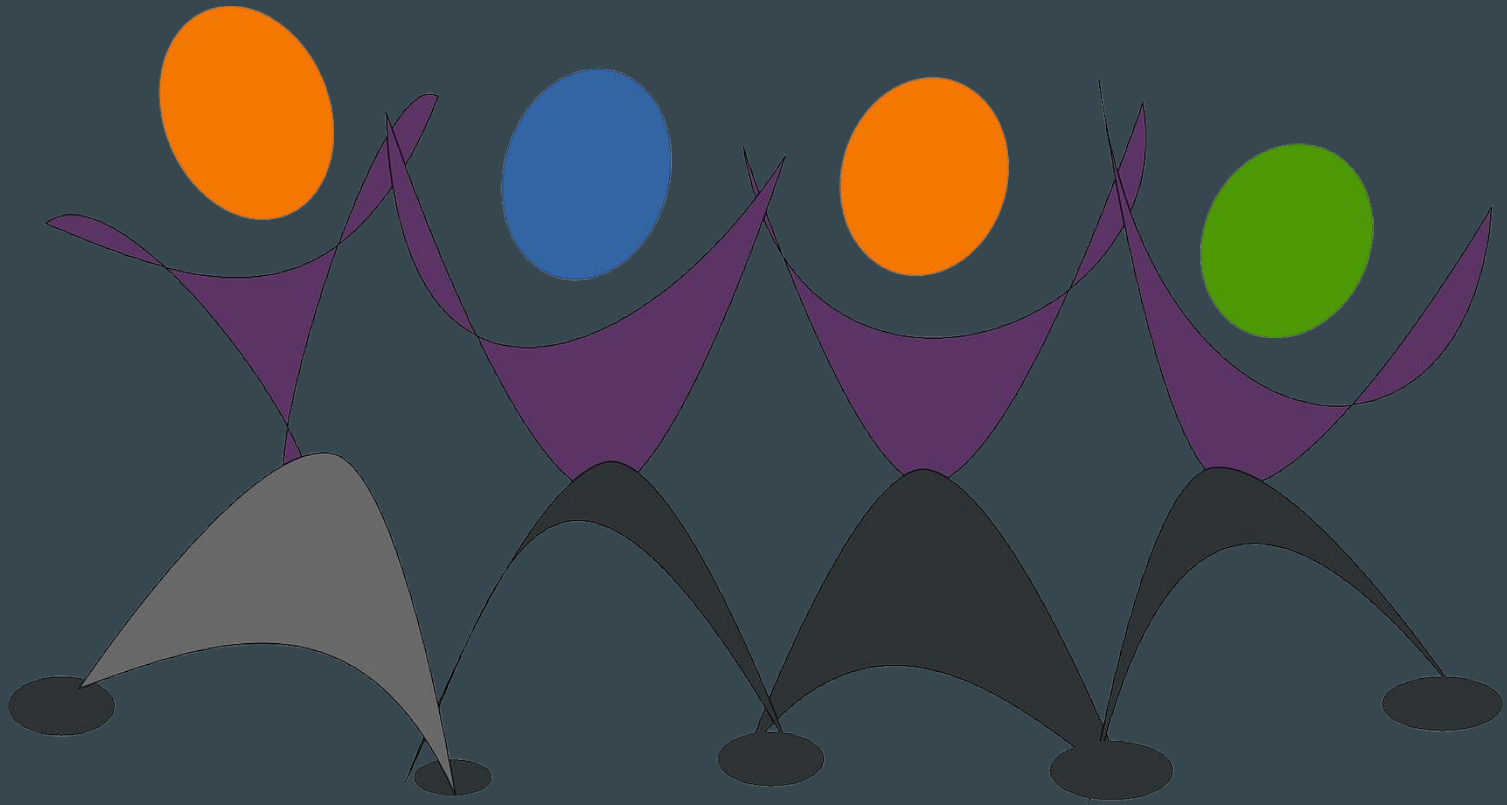
Awareness

Council

Set direction
Allocate resources

Staff

Implement



Timescale

Long
Term
2 to
10+
yrs

Medium
Term
1mth
to
3 yrs

Short
Term
NOW
to
3
mths

**Asset
Manager**

**Business
Managers**
Leaders -
strategic



**Engineers &
Technical Specialists**
Wide range of
specialisms - Mix of
strategic & tactical



Operators and Maintainers
Highly skilled teams and
individuals-
tactical



Primary Work Responsibility

Why

**What
When**

How

What

A process to make informed decisions

Why

Ensure sustainable service delivery

Who

Everyone

Resources

- “I Want a Five-Star Experience for a Two-Star Price”: Setting and Communicating Levels of Service
<https://rmalberta.com/wp-content/uploads/2018/07/2018-04-24workbook-LOS-PR-ESSbleeds.pdf>
- Asset Management BC, Framework
<https://www.assetmanagementbc.ca/framework/>
- Starting the Asset Management Conversation in your Municipality
<https://fcm.ca/en/resources/mamp/tool-starting-the-asset-management-conversation-in-your-municipality>
- Asset Management 101, CNAM <https://www.cnam.ca/newtoam/ambooklet/>
- Canadian Infrastructure Report Card 2016
http://canadianinfrastructure.ca/downloads/Canadian_Infrastructure_Report_2016.pdf