

Topics discussed

- Asset Management Overview
- Town of Carstairs Asset Management Journey
- Governance Structure Supporting Asset Management
- Questions & Maybe Answers



Asset Management

WHAT IS IT:

 "The <u>coordinated</u> activity of an organization to realise value from assets".

 Coordination means organizing the activities of two or more groups so that they work together efficiently and know what the others are doing.



Asset Management Key Principles

It involves:

- Processes, procedures and practices to assist and define the management of infrastructure
- Achieving total lowest cost of ownership
- Established measures for performance, risk and cost



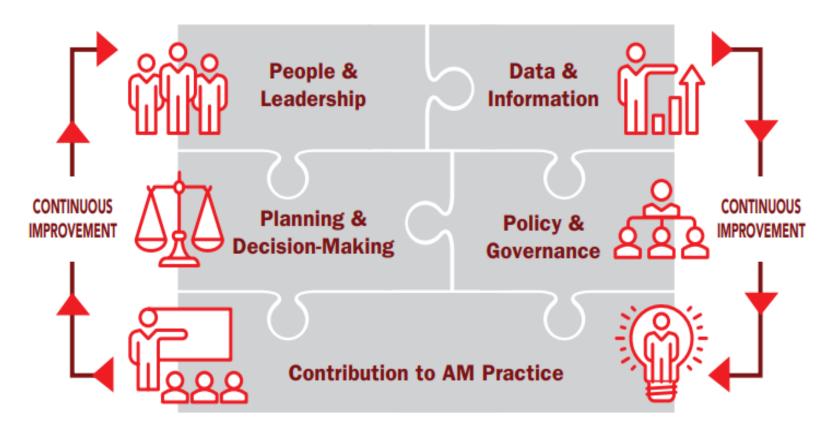


The Benefits

Benefits of Asset Management	
	Good governance and increased accountability
	Data-driven decision-making
	Enhanced sustainability of infrastructure
	Improved level of service and quality of life
	Accurate forecasting of infrastructure replacement and enhancement needs
	Compliance with federal and provincial regulations



Asset Management Competencies







- We are a community with population of 4,895 that is located 45 minutes north of Calgary Alberta
 Carstairs offers all the necessities of everyday living while enjoying the slower pace, familiar faces
 and serenity of country life. Our location, and proximity to many large economic centers such as
 Calgary and Red Deer, make Carstairs an ideal place to live, work, and visit.
- Come and explore our beautiful town, our 18-hole golf course, a Memorial Complex with abundant parks, playgrounds, skate park and walking paths.
- Services Water, waste water, storm, roadways, parks & recreation, library, protective services, campground and golf course.
- Staffing 46 full-time staff

The Town of Carstairs Asset Management Journey

2012: CityWide AM, GIS Viewer, CPA

2014: Added Maintenance Management System Continous: Data Improvements / Corrections

GIS linking with AM data New Inventory Items Fragmented and Hard to Manage

Asset Management Journey

2013: Engineering Firm uploading Data Collection into Asset Management System

2018: AM Training IPWEA 2021/22: Data Enhancements GPS collection



Maintenance Management



Work Orders
Outstanding by My Departments)

Work Orders

Service Requests
Average Completion Days

Work Orders
Month-to-Date

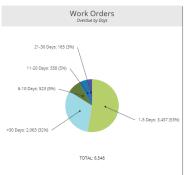
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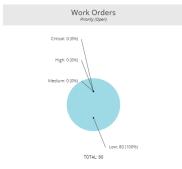
Compared to 788 Last Year

Service Requests
Month-to-date

469

Compared to 53 Last Year

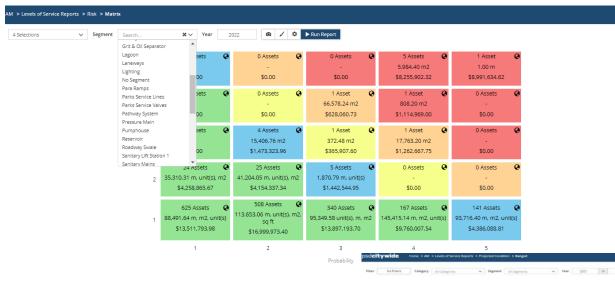






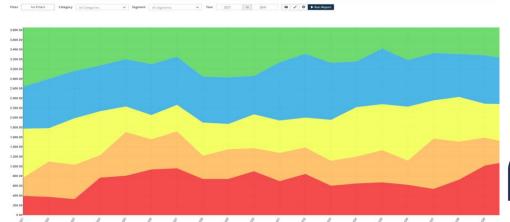
Service Management





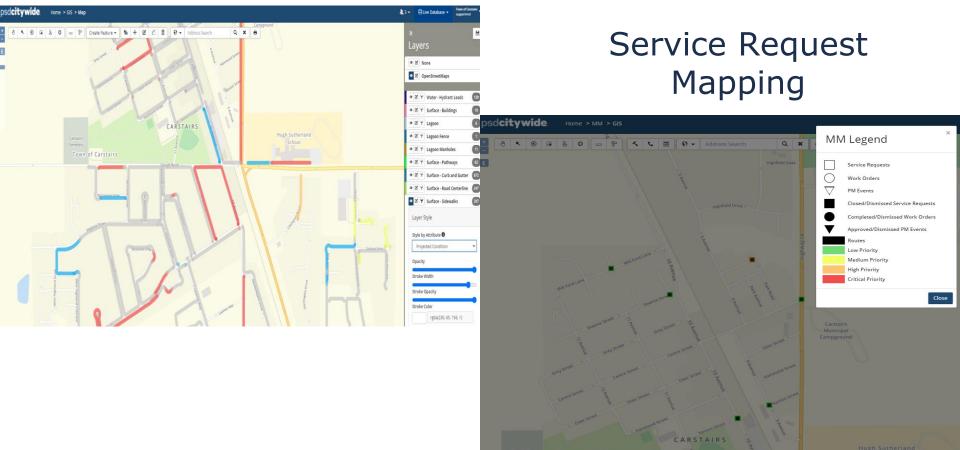
Risk Management & Planning

Condition Projections

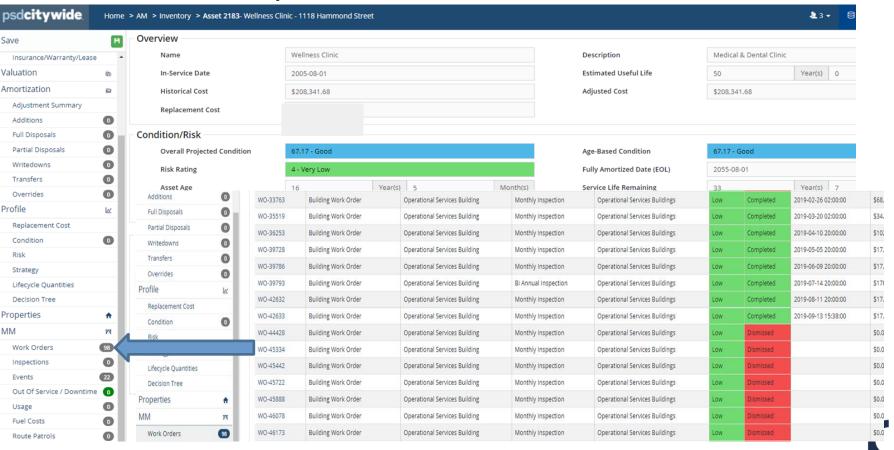




Condition Mapping



Asset Details Improved





Future Focus on Asset Management Activities



Starting Asset Management

- Councils Understanding (One and Done)
- Little oversight
- Knowledge of Asset Management
- Data Collection What, Where, When, Why & How
- Data Correction / Cleanup / Improvements
- Departmental Buy-In at the Beginning





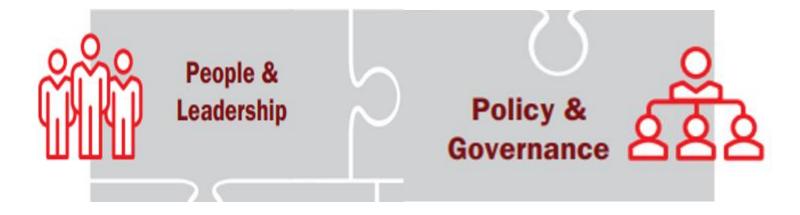
What we have created - Gains

- The Director of Finance now reviews all new, disposed and department transfers. At the end of the year, our audit is a very smooth transition.
- Improved Departmental and Corporate dialogue
 - The manager of Ops Services attends all planning and development meetings with
 F.A.C. and yearly municipal improvements and reports back on all activities
 - We have created a team of four and we meet monthly to ensure we are not missing anything.
 - Departments have learned to join forces and collaborate for the betterment of the organization.
 - We have developed a **Central Repository** with GIS, AM, TCA & Operational Data
- Heightened AM awakening and awareness
- Supports smarter budgeting Process starts much earlier
- Better communication between Council, CAO, Senior Staff,
 Departments





Supporting Asset Management





Organizational Governance

- Instilling a Governance structure to develop, implement and manage an organizational asset management program ensures all stakeholders are represented, heard, and considered in the process.
- This ensures an integrated program with accountable stakeholders.



Governance Structure

- A Governance Structure is required to:
 - Develop & Implement the AM program
 - Manage an ongoing AM Program
 - Prioritize AM initiatives

 The Strategic Asset Management Policy provides a basis to discuss an effective governance structure for the municipality.



Program Development

- Asset Management is multidisciplinary:
 - Engineering
 - Finance
 - Operations
 - Planning
 - Purchasing
 - \circ IT
- Scale & scope of infrastructure services provided by municipality informs Governance Structure

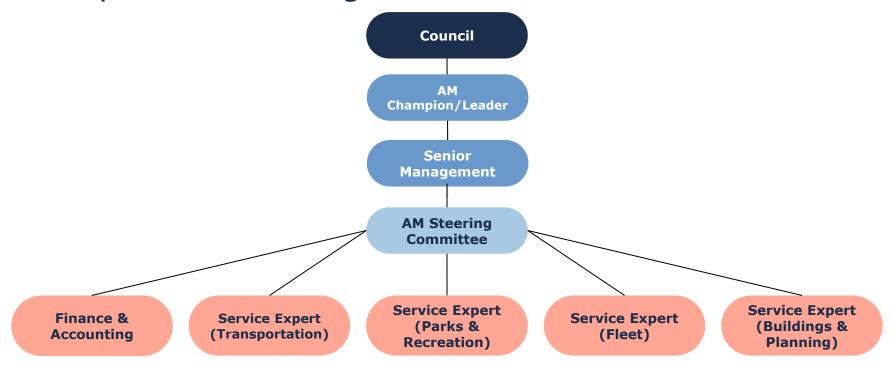


Governance Structure

- AM Champion
 - Influential Leader
- AM Steering Committee
 - Decision Makers
 - Finance, Engineering, GIS, Facilities,
 Public Works, Fleet, Planning, etc...
- AM Coordinator
 - Monitors and governs all aspects of the program
- AM Team
 - Dedicated staff meet and discuss the AM program regularly



Example Asset Management Governance Structure

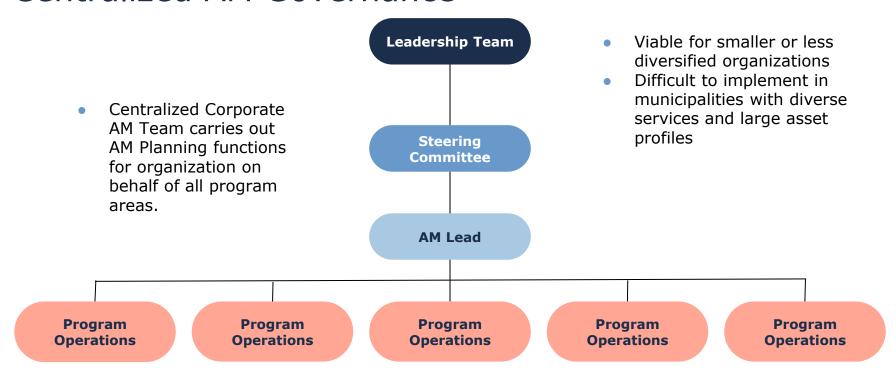


AM Governance Structures

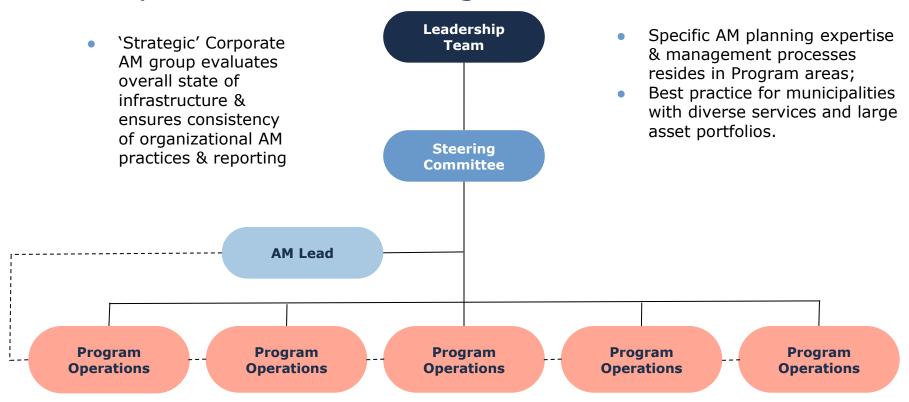
- Many options for managing an ongoing AM program within a municipality
- Choice of Governance structure within the municipality will be affected by factors unique to each municipality:
 - Size & diversity of asset base;
 - Level & type of internal expertise;
 - Available technology and integration between asset registers;
 - Current municipal governance structure & operations (e.g. capacity across departments)



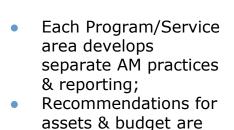
Centralized AM Governance



Partially Centralized Strategic AM Governance



Decentralized AM Governance



reported separately.



- May work for small municipalities with close leadership teams;
- Difficult to maintain consistent organizational AM practices & promote balanced decisionmaking.

Program Operations

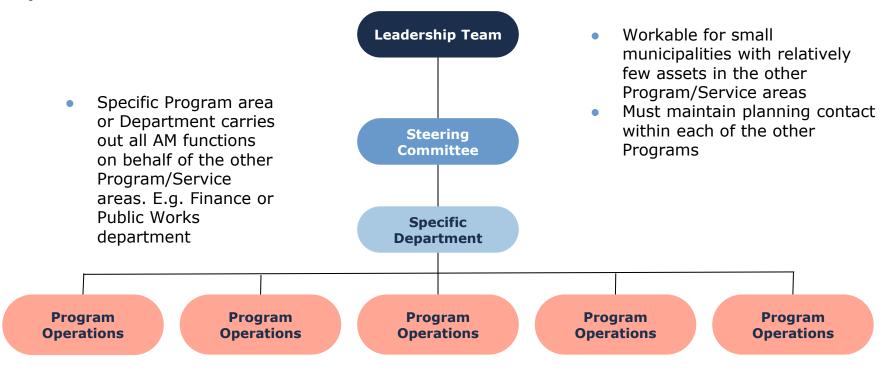
Program Operations

Program Operations

Program Operations

Program Operations

Hybrid AM Governance



Role: Asset Management Champion/Leader

- A senior official (elected or non-elected) who establishes the culture of asset management (AM) across the municipal organization
 - Champions AM vision;
 - Articulates corporate goals and stakeholder requirements that AM policy must help achieve across organization;
 - Ensures that AM Program aligns with corporate strategy and targets
- Provides motivation & leverage to ensure successful implementation of AM program



Role of the CAO

- Understanding and embracing the changes Asset Management brings.
 - Municipal administrators can use asset management outputs to help run the municipality more effectively. This can be applied to managing service fees, developing service plans and compiling the municipal budget, to name a few.
- Ensuring Senior Leadership is doing their part
 - Policy
 - Processes and Procedures



The Importance of Asset Management to the CAO

- Existing Infrastructure is the largest investment that every community has ever made (nothing else comes close)
- Existing Infrastructure is the delivery mechanism that touches regular citizens lives every day (couldn't imagine a world without it)



Role: AM Steering Committee

- Includes senior representatives from across the organization:
 - Develops the AM vision;
 - Proactive in shaping the Asset Management culture;
 - Supports AM Champion/Leader in promoting asset management principle and best practices;
 - Ensures AM program will meet requirements;
 - Supports AM Program & possible changes to areas of the organization;
 - Provides guidance to the Program Experts or Project
 Manager

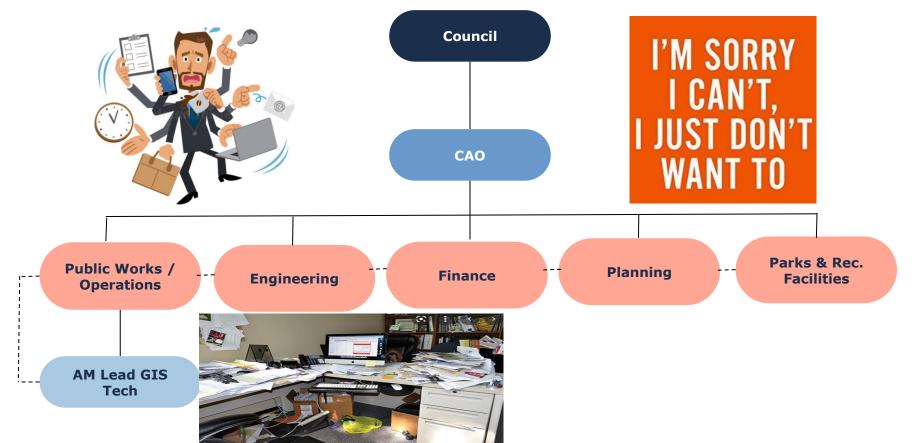


Role: AM Lead

- Manages development of Program to achieve corporate AM vision;
- Works with/seeks guidance from:
 - Steering Committee;
 - Leadership & expert staff in the service areas;
- Develops/maintains communications plans;
- Manages consulting services (if applicable);
- AM lead can come from any area of the organization;
 - Should have a broad knowledge of the organizational operations, people & assets;
 - A team builder & motivator.



Example of Many Organizations with an "Asset Lead"



Role: Program/Service Area Experts

- Provides expertise & input to AM program from respective service areas;
- Ensures services or infrastructure they are accountable for are properly represented and accommodated in AM program.



AM Governance Structures

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Questions?

