



Ont. Reg. 588/17 & Climate Change

Dharmen Dhaliah
Town of Halton Hills
June 25, 2019

Introduction



HALTON HILLS

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Canada's House of Commons has declared a national climate emergency

June 17, 2019

- The motion describes climate change as a “real and urgent crisis, driven by human activity”;
- Canada commits to meeting its national emissions target under the Paris Agreement and to making deeper reductions in line with the Agreement’s objective of holding global warming below two degrees Celsius and pursuing efforts to keep global warming below 1.5 degrees Celsius.”

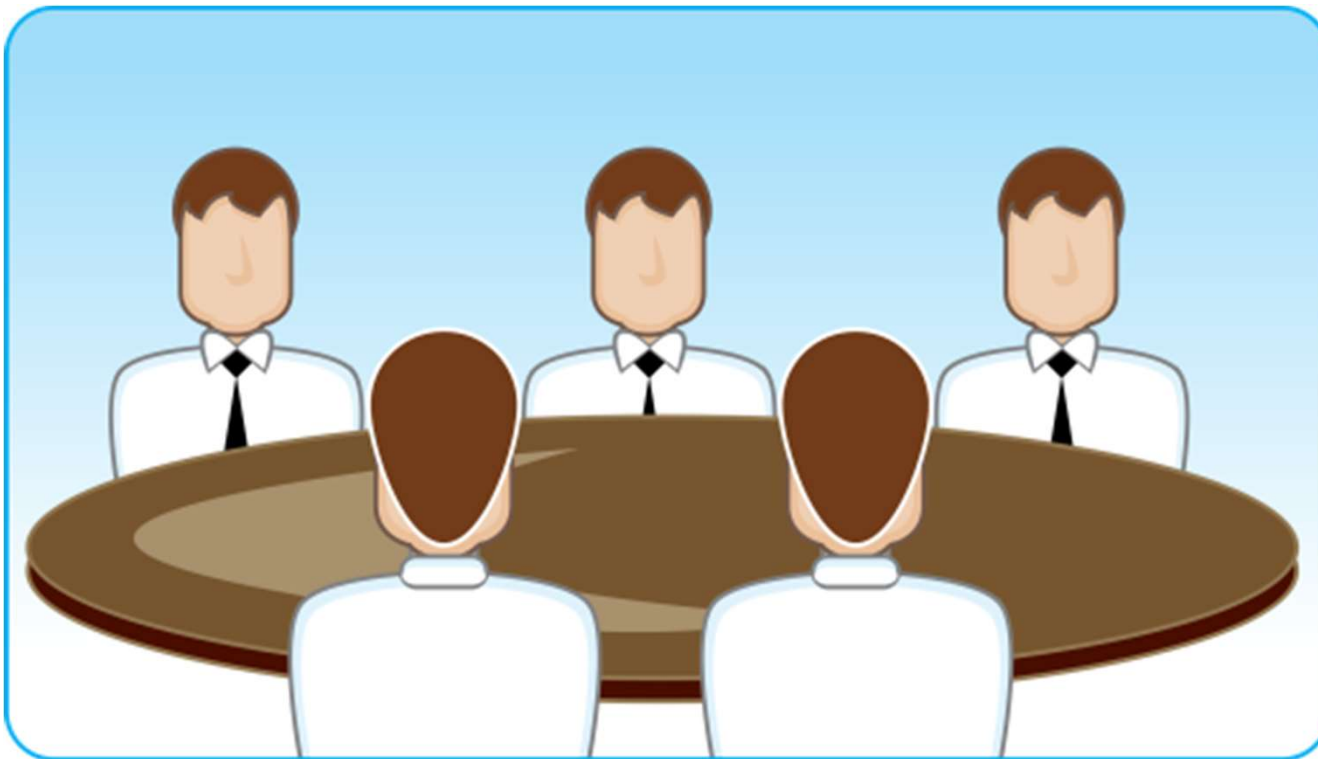
CTV News

Town of Halton Hills - Climate Change Emergency, May 6 2019

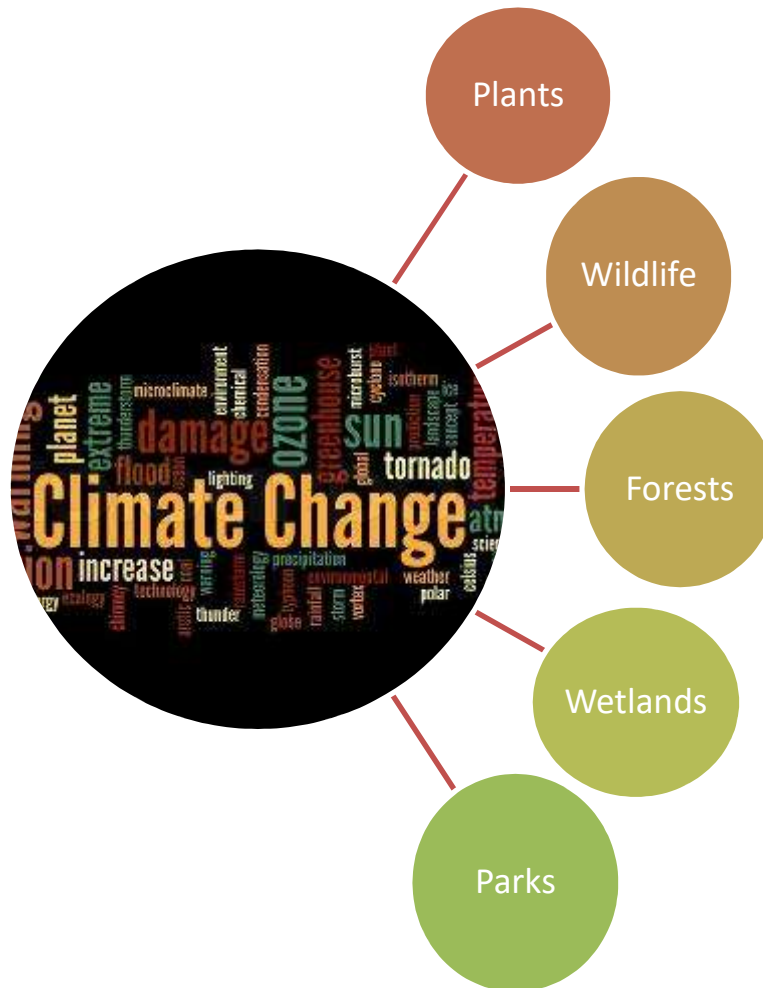


THEREFORE BE IT RESOLVED that The Town of Halton Hills declare a Climate Emergency in the knowledge that this is an emergency with no foreseeable conclusion which will require permanent robust changes in how the Corporation conducts its business and a resetting of goals with respect to Engineering, Planning, Building, Recreation, Parks Libraries, Fire and Transportation Services;

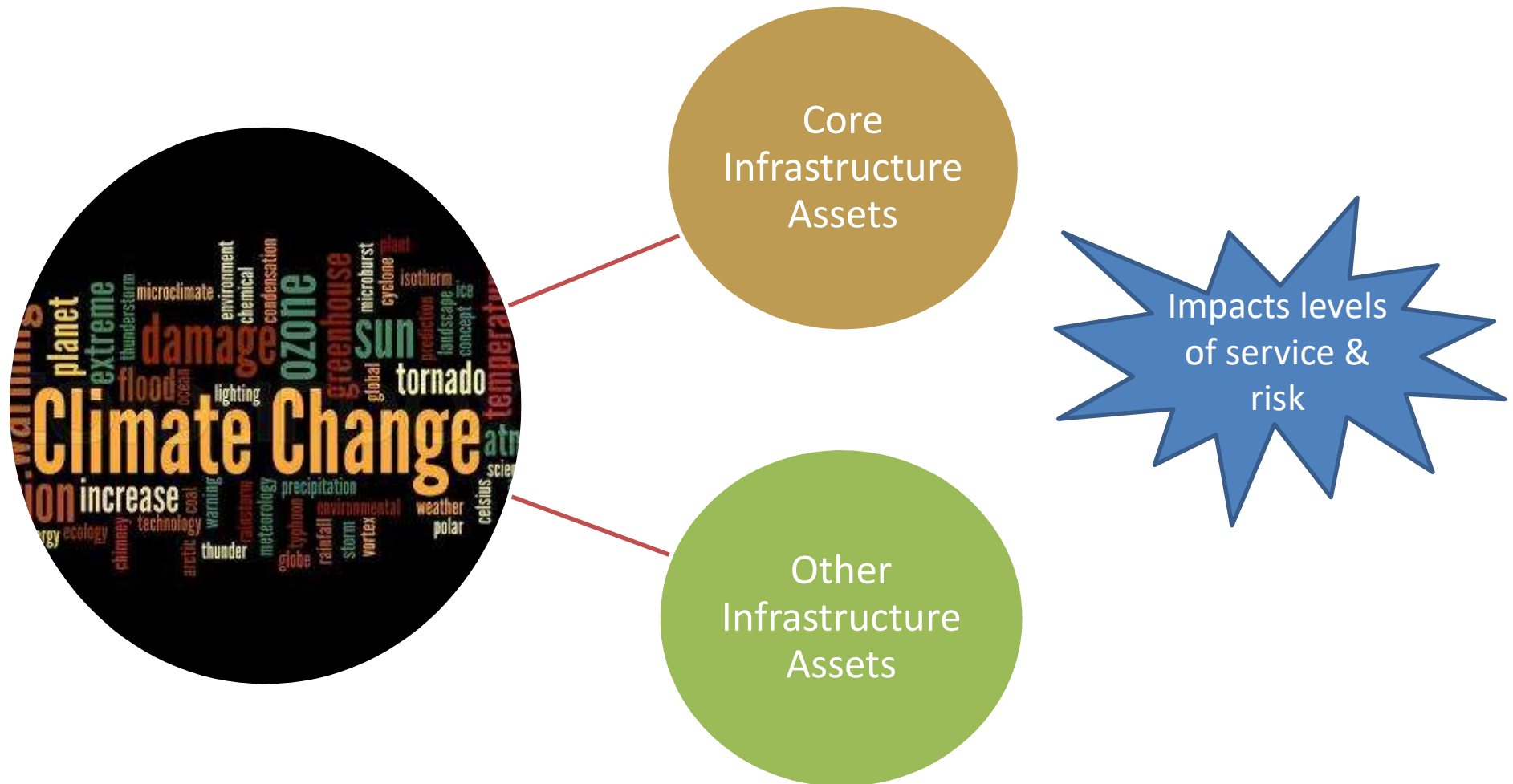




Climate Change and Natural Assets

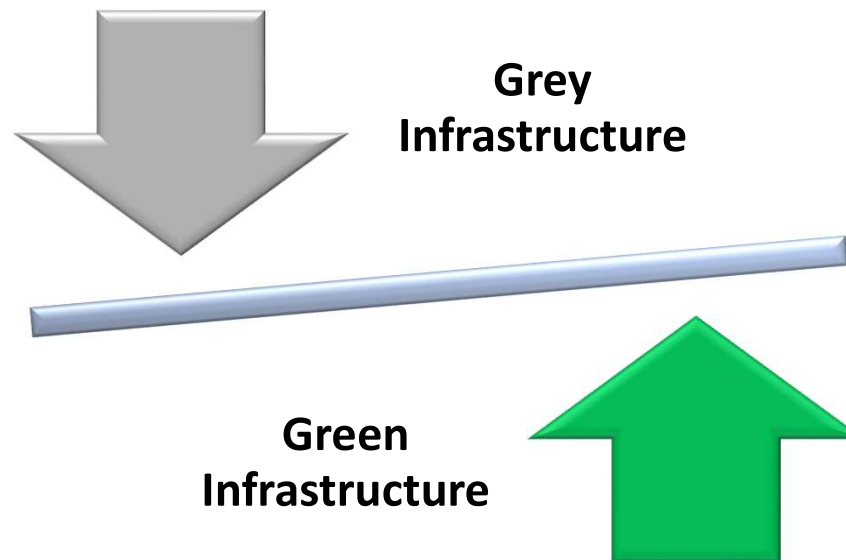


Climate Change and Infrastructure Assets

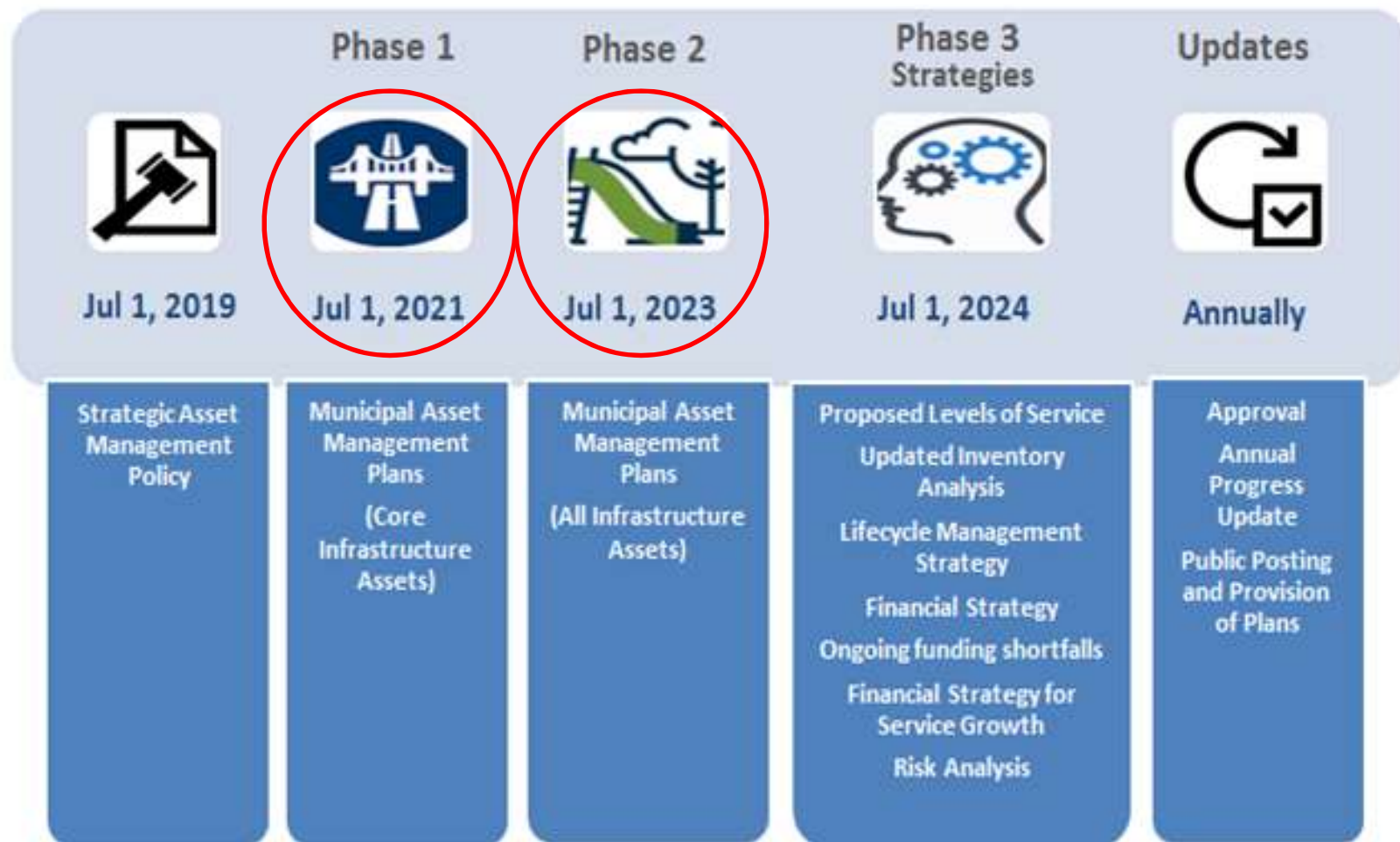


Key Considerations

- Climate change impacts in Asset Management Plans
 - *Core Assets*
 - *All other assets*
- Include Natural Assets in Asset Management Planning
- Leverage the services between grey & green infrastructure to realize best Value



Ont. Reg. 588/17 – The Regulation



Ont. Reg. 588/17 and Natural Assets

Definitions:

- 'municipal infrastructure asset' means an infrastructure asset, **including a green infrastructure asset**, *directly owned* by a municipality or included on the consolidated *financial statements* of a municipality;
- 'green infrastructure asset' means an infrastructure asset consisting of natural or human-made elements that provide ecological and hydrological functions and processes and includes natural heritage features and systems, parklands, stormwater management systems, street trees, urban forests, natural channels, permeable surfaces and green roofs;

Source: Ont. Reg. 588/17 Asset Management Planning for Municipal Infrastructure

Ont. Reg. 588/17 and Climate Change

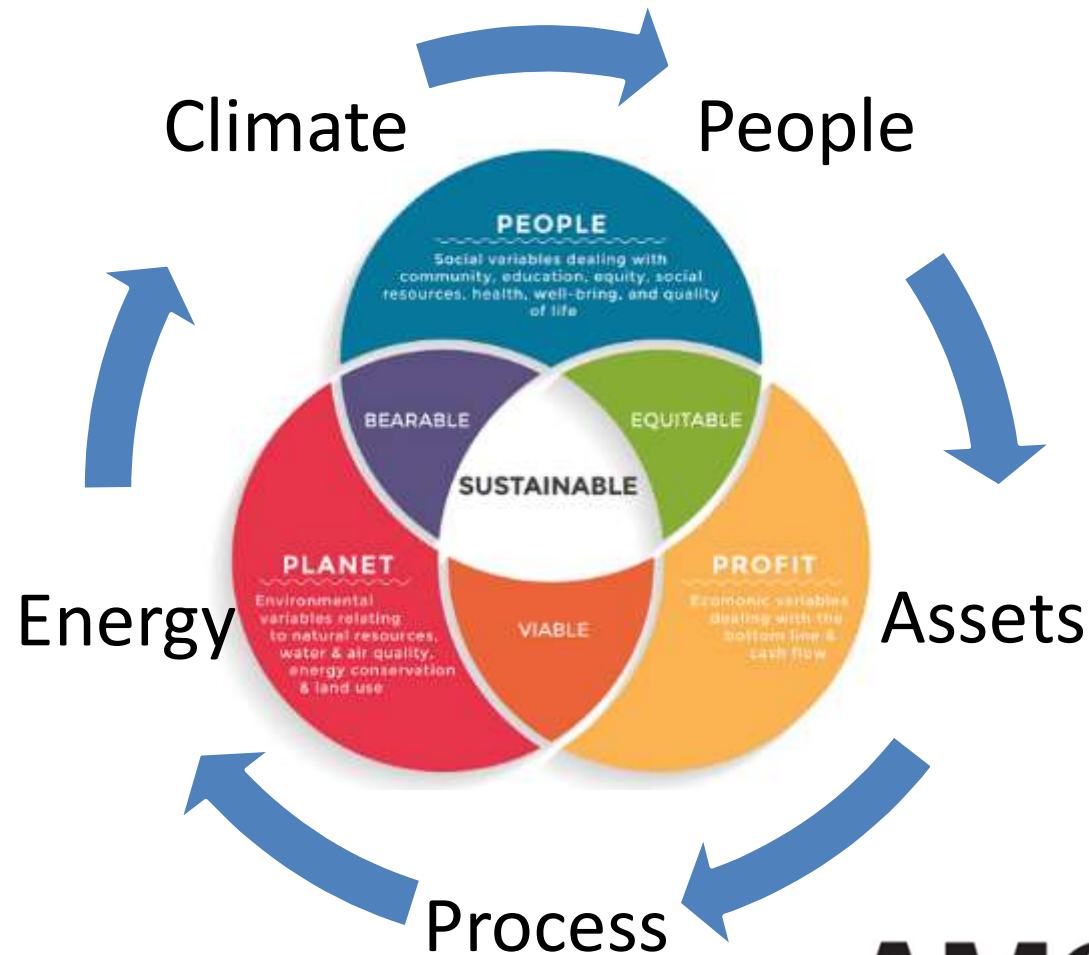
Section 5. The municipality's commitment to consider, as part of its asset management planning:

- I. The actions that may be required to address the vulnerabilities that may be caused by climate change to the municipality's *infrastructure assets*, in respect of such matters as,
 - operations, such as increased maintenance schedules,
 - levels of service, and
 - lifecycle management,
- II. The anticipated costs that could arise from the vulnerabilities

Ont. Reg. 588/17 and Climate Change

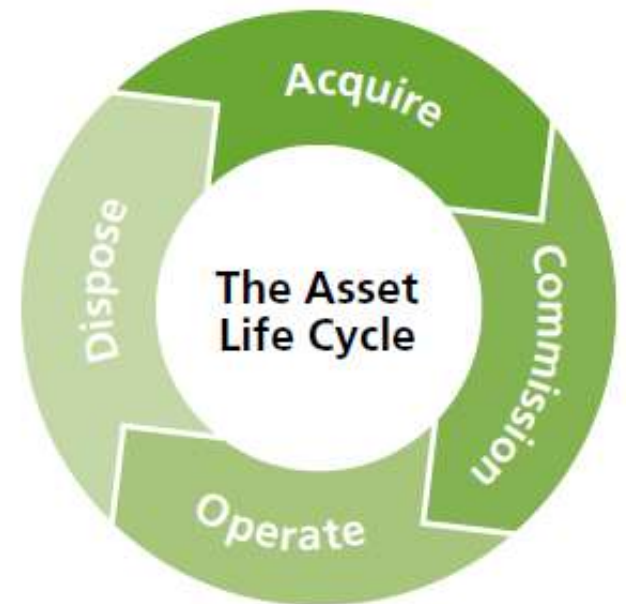
- III. Adaptation opportunities that may be undertaken to manage the vulnerabilities described in subparagraph i,
- IV. Mitigation approaches to climate change, such as greenhouse gas emission reduction goals and targets, and
- V. Disaster planning and contingency funding.

Asset Management & Sustainability



Asset Whole Lifecycle Approach

- Planning (more frequent interventions/long-term solutions)
- Designing (more resilient, capacity)
- Procuring (standards, specifications)
- Building/Constructing (building codes, materials)
- Operations/Levels of service (performance standards)
- Maintenance (type/frequency)
- Lifecycle costs
- Disposal (environmentally friendly)



What should AM Practitioners do?



CAM Program: Asset Management Planning for the Present, Future and Beyond!

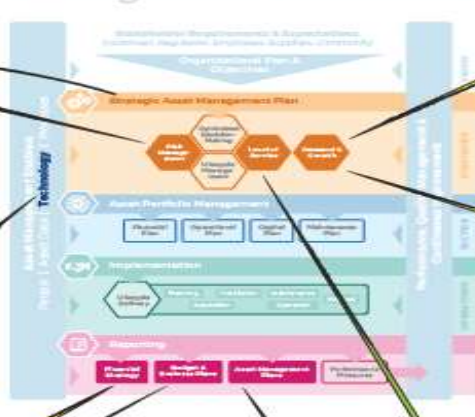
The Town is located on the outer edge of the rapidly growing Greater Toronto Area (GTA), much of the municipality remains rural in character, with significant portions protected by the provincial Greenbelt Plan as well as the Niagara Escarpment Plan. The Town of Halton Hills, with a population of approx. 90,000, is made up of several interconnected smaller towns, villages and rural settlements with a distinctive and enviable identity that comes from the beauty and tranquility of the rural setting, rolling hills, rivers and valleys. It consists of two urban centers, Georgetown and Acton, the Halton Hills Premier Gateway employment area, three hamlets – Glen Williams, Stewarttown and Norval – and several smaller settlements.

Halton Hills is one of four municipalities that make up the larger Halton Region (Halton Hills, Milton, Oakville, and Burlington). The Town has long been recognized for its natural beauty, active agricultural community, high quality of life and proximity to major centers. Halton Hills is a community where we enjoy safe family living, scenic beauty and active community life. The Town is ranked as one of the top small communities in Canada by a national magazine.

In light of its geographic location, Halton Hills faces significant growth pressures. By 2031, the Town's population is anticipated to reach 94,000 residents. Besides working on a Corporate Asset Management Plan, the Town has some key strategic priorities ongoing, namely Vision Georgetown, the Long Range Financial Plan, Transit Strategy, Climate Change Adaptation Plan, Halton Hills Premier Gateway, and some major capital projects among others.



Corporate Asset Management Framework



Climate Change Adaptation Plan

The Town of Halton Hills has and continues to experience the effects of a changing local climate. Severe weather events, such as the 2013 ice storm and the summer of 2016 dry hot precipitation levels and several severe weather events have affected the Town.

While it is critically important for governments of all levels to address current issues of climate change by reducing greenhouse gas (GHG) emissions (referred to as mitigation), there also becomes clear that governments also need to plan for the need to be prepared to adapt to a changing climate. Recognizing these facts, Town Council identified the development of a local Climate Change Adaptation Plan as a priority project for Town of Halton Hills as part of the 2014-2016 Council Strategic planning process. Council approved the reference planning to complete a Climate Change Adaptation Plan in the 2016 capital budget process. The project is also supported by the goals outlined in the Halton Hills 2016-2020 Strategic Community Sustainability Strategy, and will be a key action item in the Corporate Sustainability Action Plan.



AM Policy and Strategy

• Corporate Asset Management Policy to be developed
• Due for Council review July 2018



AM Information System: Alignment with Town's Corporate Technology Strategy



Capital Budget Process

For the past two budget cycles the Town has been making improvement in its capital budgeting process to move from a budget-driven framework to a service-driven approach. The goal is to introduce a project-based assessment process to analyze needs and facilitate the prioritization process.



Long Range Financial Planning

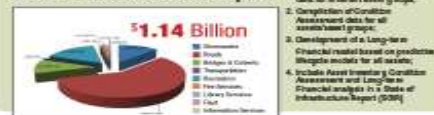
The Town of Halton Hills Long Range Financial Plan shows the Town's long-term financial objectives, policies, targets and outcomes. The 2016 update to the Plan will demonstrate the overall current and future financial position of the Town and how it is designed to analyze the financial impact of changes and achieve overall financial management.



Corporate Project CAM Project

The CAM Project is a key component of the Corporate Asset Management Framework. It is informed by the 'Strategic Asset Management Plan' and the 'Asset Management Plan'. It is also informed by the 'Long Range Financial Planning' and the 'Transit Strategy'. It is also informed by the 'Vision Georgetown' and the 'Climate Change Adaptation Plan'. It is also informed by the 'AM Information System: Alignment with Town's Corporate Technology Strategy' and the 'Capital Budget Process'. It is also informed by the 'Long Range Financial Planning' and the 'State of Infrastructure Report'. It is also informed by the 'Level of Service' and the 'Lifecycle Management Strategy'.

State of Infrastructure Report



Level of Service

Over the last 10 years, the Town has been making improvement in its capital budgeting process to move from a budget-driven framework to a service-driven approach. The goal is to introduce a project-based assessment process to analyze needs and facilitate the prioritization process.



Transit Strategy

Based on the existing Halton Hills transit system to provide an affordable and accessible system that is tailored to needs and opportunities in Halton Hills. The transit system will use the needs of residents, businesses and visitors within the Halton Hills urban, rural and tourist communities, and provide links to surrounding municipalities by 2031. The transit system will continue to evolve to accommodate planned growth within the Town by 2031.



CAM Program Roadmap v4.0



Integration Opportunities

- Levels of Service Framework – *FCM-led Program*
- Vulnerability Assessment – *Risk assessment framework and outcomes*
- State of Infrastructure Report – *Include in Financial LRFP*
- Climate Change Adaption Plan – *Include actions in operational & capital plans*
- Natural Assets Inventory & Valuation – *Services & Management strategies*
- Optimized Decision Making Framework – *Include Climate Change & Energy Management considerations*
- Naturalized Stormwater management pilot project
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Potential Challenges

- Not enough focus on natural assets inventory assessment;
- Difficulties to evaluate natural assets and services they provide;
- Integrate natural assets in the financial accounting system;
- Paradigm shift in evaluating green assets vs. grey assets services;
- Resources and expertise to handle natural assets management;

Thank You

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