GREEN INFRASTRUCTURE ASSET MANAGEMENT PLANNING OVERVIEW

Council Meeting – October 28, 2024

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PRESENTATION OUTLINE

- Overview of green infrastructure asset management
- Legislative requirements
- Related plans and strategies
- Developing the GIAMP
- Next steps





GREEN INFRASTRUCTURE

Natural (GI) Assets

- Wetlands
- Swamps
- Forests
- Meadows
- Watercourses
- Lakes and ponds
- Soils

Enhanced (GI) Assets

- Rain gardens
- Green roofs and walls
- Bioswales
- Street and park trees
- Naturalized stormwater ponds
- Manicured lawns

Engineered (GI) Assets

- Permeable pavement
- Rain barrels
- Cisterns
- Perforated pipes
- · Infiltration trenches

Grey Infrastructure

- Bridges
- Roads
- · Parking lots
- Culverts
- Pipes



EXAMPLES OF GREEN INFRASTRUCTURE ASSETS

NATURAL ASSETS









ENHANCED ASSETS











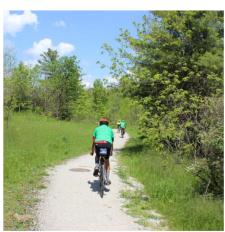
IMPORTANCE OF GREEN INFRASTRUCTURE ASSETS

- Contribute to environmental resilience and climate mitigation and adaptation
- Provide low-cost alternatives to grey infrastructure
- Deliver essential services to the community including:

Flood Mitigation



Recreation



Beautification



Air Filtration





REGULATORY REQUIREMENTS – O.REG 588/17

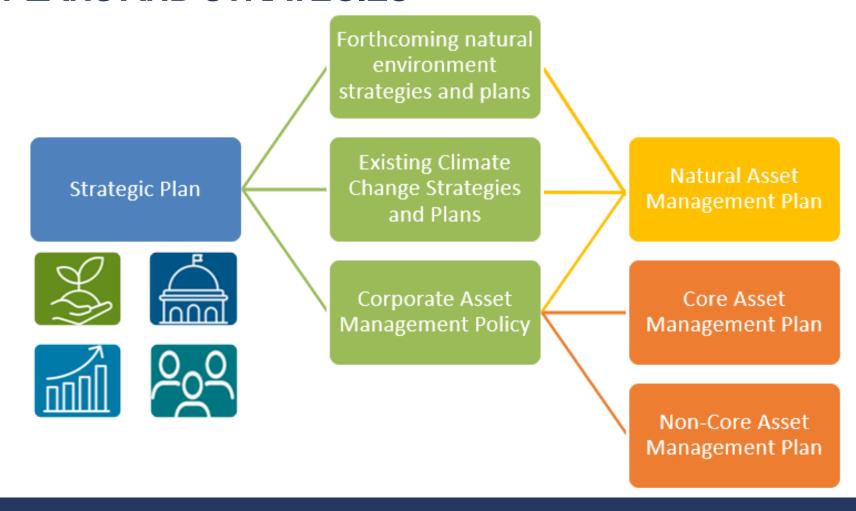
 Strategic Asset 2019 Management Policy Municipal Asset Management Plans 2022 (Core Infrastructure Assets), Municipal Asset Management Plans (All Assets) 2024 Current LOS and SOI July1, 2025

"'green infrastructure asset' means an infrastructure asset consisting of natural or humanmade 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" – O.REG 588/17

- Proposed LOS
- Financial strategy including funding shortfalls and strategy for growth



RELATED PLANS AND STRATEGIES





DEVELOPING THE GIAMP

- Inventory
- Condition assessment
- Financial data
- Stakeholder input and feedback
- Asset valuation
- Management, operational and strategic plans
- Long Range Financial Plan

Inputs

GIAMP

- State of the Infrastructure
- Levels of Service
- Risk Management
- Lifecycle Management
- Financial Projection
- Continuous Improvement

- Inform budgets and support business cases
- Guide lifecycle activities
- Improve data collection and record keeping
- Ensure LOS are met
- Establish best management practices

Outputs



NEXT STEPS

Q3 to Q4 2024

- Confirm scope for asset inventory
- Execute agreement with CVC

Q4 2024

 Refine replacement cost and valuation methodology, continue staff engagement

Q1 2025

 Award RFP for Asset Management Consultant

Q1 to Q2 2025

- AM consultant completes GIAMP components
- Carry out First Nations and stakeholder engagement

Q2 2025

 CVC completes inventory of ToHH green assets

Q3 to Q4 2025

 Plan components finalized and compiled into GIAMP

Pending 2025 budget approval



QUESTIONS



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