SARNIA URBAN FOREST MANAGEMENT PLAN

Phase 1 Consultation – Public Information Centre (PIC)
Sarnia, ON · April 18, 2023

Philip van Wassenaer, MFC
Principal

Alexander L. Satel, MFC Sr. Urban Forestry Consultant

Urban Forest Innovations Inc. · Mississauga, ON





<u>Agenda</u>

6 p.m. to 7:30 p.m.

- 1. Poster viewing (6 6:30 p.m.)
- 2. Opening remarks (City)
- 3. Presentation (consulting team)
- 4. Q&A
- Discussion







Opening remarks

Cory King

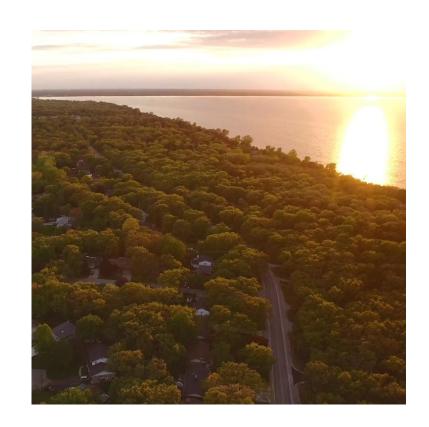
Supervisor, Forestry and Horticulture Services





In the spirit of peace and friendship, we honour the Anishinaabek of the Three Fires Confederacy on whose traditional territory we are gathered.

The City of Sarnia has resolved to implement the United Nations Declaration on the Rights of Indigenous Peoples.





Project team

City of Sarnia

- Community Services division, Parks & Facility Operations dept.
 - Forestry and Horticulture Services

Consultants

- Urban Forest Innovations Inc. (Mississauga, ON)
- PlanIT Geo (Arvada, CO, USA)









Engagement objectives

- Inform you: about Sarnia's urban forest and the UFMP project
- Gain understanding: about community values and the urban forest
- Obtain input: on urban forest vision, challenges, opportunities, goals, etc.



Sarnia's urban forest

TREES AND THEIR GROWING ENVIRONMENTS

- Streets
- Parks
- Natural areas
- Private lands
- Industrial, commercial and institutional (ICI)









2,726 hectares (17%) UTC

Urban Tree Cover ←

60:40 urban/non-urban split

22% urban, 12% non-urban UTC

24,498 street trees (urban)

>90% in good health

>80% in good structure

Moderate level of diversity





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Urban Tree Cover ◆

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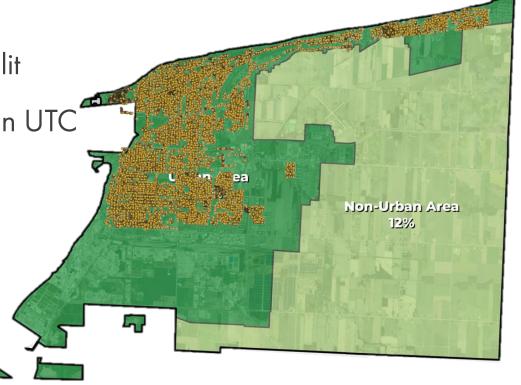
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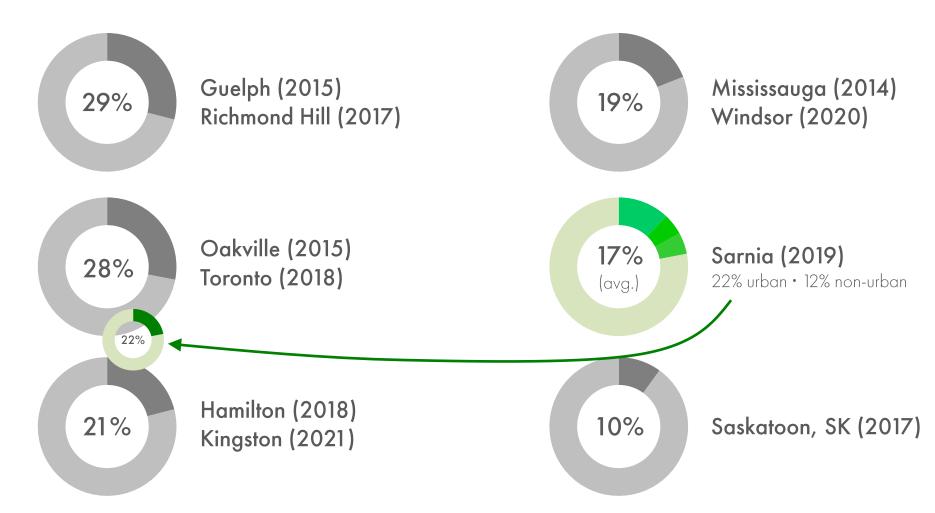
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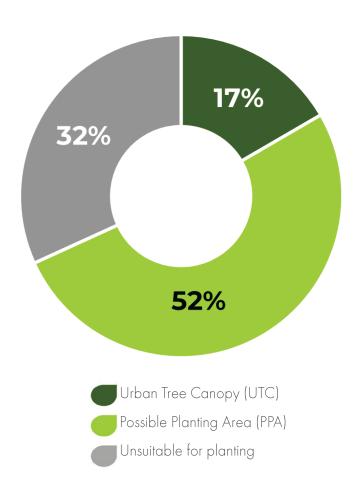




- 87% of UTC is on private property
- 52% of land is PPA

→ Possible Planting Area

- 90% of PPA is on private property
- Opportunities to plant in road right-of-way (500 ha) and other City lands (300 ha), but so much more PPA on private lands (7,600 ha)!





Air quality

\$373,321/yr. 95,901 kg of pollutants removed

Stormwater

\$97,505/yr.
31 million litres of runoff avoided

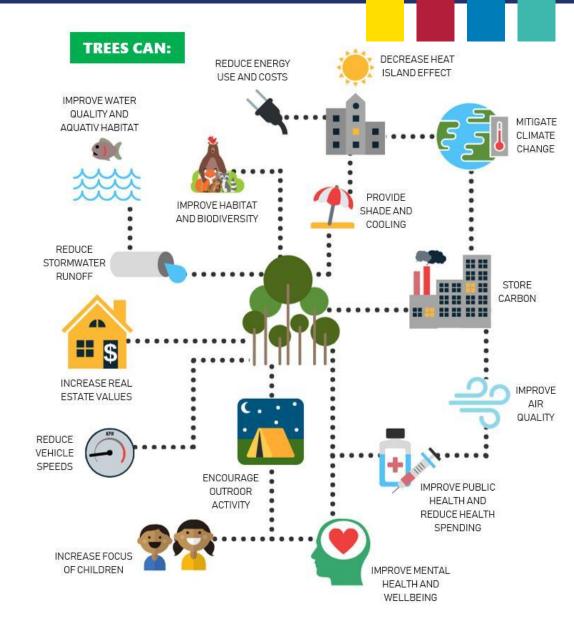
Carbon sequestration

\$603,541/yr. 2,399 metric tonnes sequestered

Carbon storage

\$21.6 million (value) 85,959 metric tonnes

... energy savings, avoided emissions, public health, recreation, etc.





- Difficult growing conditions
- Pests, diseases, invasive species
- Resource limitations
- Large share in private ownership
- Climate change





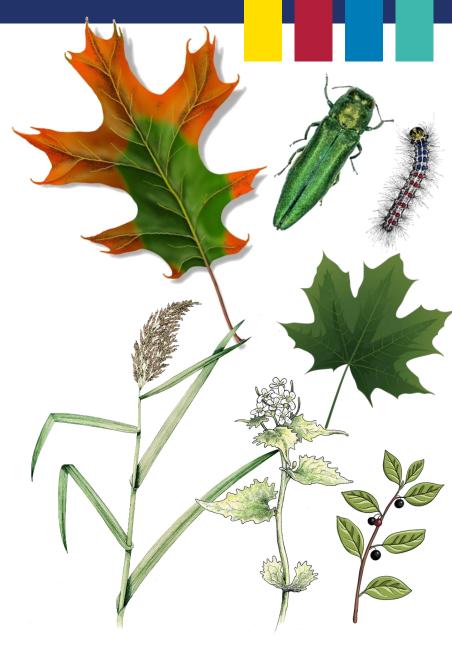
FACING SARNIA'S URBAN FOREST

Difficult growing conditions



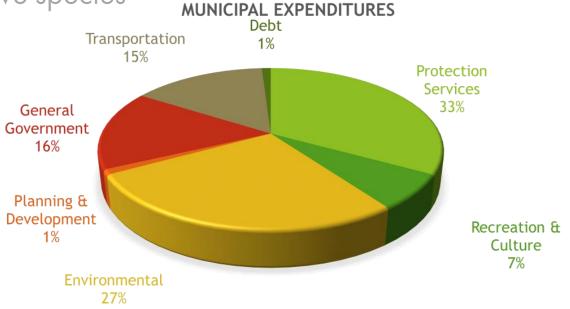


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Current programs and initiatives

- Urban forestry
 - Tree care and maintenance
 - Tree planting (operations and community partnerships)
 - Trees of Distinction and Commemorative Asset (tree) programs
 - 'Edible Trees'
- Tree Canopy Protection and Enhancement Policy (2021)
- By-law 34 (Tree by-law)
- Stewardship plans (with SUWC)
- Planning guidelines and application review
- Official Plan urban forest policies (Draft Official Plan, 2022)
- Sarnia Environmental Advisory Committee (SEAC)
- Climate Change Action Plan (CCAP) and Implementation Strategy



Responding to the challenges

THROUGH THE URBAN FOREST MANAGEMEN PLAN



Supporting + building

Support and build upon good policies, programs, and practices already in place in Sarnia.



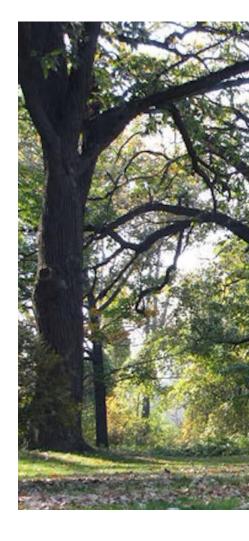
Best practices

Provide guidance for the adoption of appropriate best practices for all aspects of urban forestry.



Goals, objectives and targets

Establish strategic goals and measurable objectives and targets, supported by monitoring to track progress and improve outcomes.





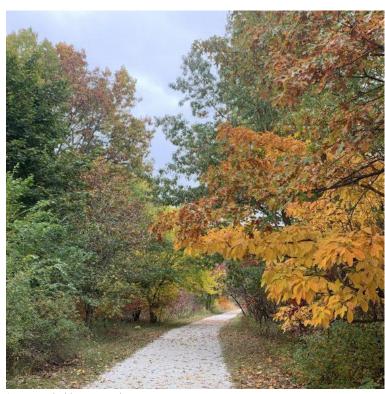


Image credit: bluewatertrails con

About the UFMP

Broad in scope

- 20-year plan horizon
- Public and private lands
- City and partners

Strategic guidance

- Vision for the urban forest
- Guiding principles
- Goals, objectives, and targets
- Prioritized action items + resourcing
- Monitoring to track progress (adaptive mgmt.)



UFMP organization



THE URBAN FOREST

The urban forest as a biological asset (e.g., diversity, UTC, condition, etc.)



Tree care and maintenance operations



Tree planting programs and establishment practices



Trees in planning policies and development practices



ENGAGEMENT AND PARTNERSHIPS

Engaging with the community and other partners in urban forest stewardship



FOR THE UFMP

These strategic directions will inform the UFMP's...

- goals
- objectives
- targets
- action items





THE URBAN FOREST





Enhance diversity

By various metrics and at different scales.



Targets

Establish and pursue targets for urban forest structure and values.



Monitoring

Benchmarking, status tracking, and applying monitoring tools periodically and as-needed.



Tree inventory

Complete, maintain, enhance and use the tree inventory and other decision-support tools.



Climate change

Support climate change commitments and strengthen community and UF resilience.



Adaptive management

Periodic plan review and updating, using Criteria and Indicators.



MAINTAINING THE URBAN FOREST





Coordination

Strengthen coordination and cooperation between departments around UF mgmt.



Plans + policies

Develop issue-specific plans and policies where necessary.



Support + enhance

Support and enhance existing maintenance programs, practices, and workflows.



Asset management

Integrate urban forestry assets with broader AM frameworks to enhance service delivery.



Levels of Service

Enhance Levels of Service (LoS) for UF maintenance operations.



Engagement

Engage the community in 'low stakes' tree maintenance.



GROWING THE URBAN FOREST





Better guidance

Enhance and consolidate tree establishment guidelines and standards.



More planting

Improve and expand tree establishment operations and programs.



Establish targets

Pursue aspirational targets for tree establishment.



Growing environments

Adopt standards and practices to improve tree growing sites.



Environmental justice

Pursue 'tree equity' through tree planting programs.



Private lands

Encourage and support tree establishment on private lands.



PROTECTING THE URBAN FOREST





Guidelines + standards

Strengthen planning guidelines to better protect trees through the development process.



Tree by-laws

Enhance education about and enforcement of existing tree bylaw, consider new by-laws.



Regional coordination

Work with Lambton County, SCRCA, and other regional partners on regional UF issues.



Planning processes

Enhance development plan and building permit application processes related to trees.



Official Plan

Expand and enhance Official Plan policies to strengthen urban forest protection.



ENGAGEMENT + PARTNERSHIPS





Outreach + education

Improve resources and programs to build awareness and appreciation of the UF.



Partnerships

Strengthen existing, and develop new, partnerships for urban forest management.



Leverage resources

Make better use of existing resources available through external partnerships.



Engagement

Provide residents opportunities for meaningful, hands-on engagement in UF stewardship.



Resource opportunities

Pursue innovative resourcing opportunities to support urban forest management.



Invest

Support community and partner-led urban forest initiatives on non-City lands.



Next steps

Background research Winter 2022-Spring 2023





Kick-off Sept. 2022



Ph.1 Engagement April 2023







Fall 2023



Ph.2 Engagement

Thank you!

Please visit

speakupsarnia.ca/UFMP

for project updates and more!





Questions?

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Challenges to Sarnia's urban forest

What do you see as the most pressing challenges facing Sarnia's urban forest today and in the future? How can these challenges be addressed?



Goals and guiding principles

What are you most looking forward to as an outcome of the UFMP?
What principles should guide the UFMP vision and urban forest management?



Getting involved















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