# **Urban Forest Master Plan**

Council – March 25, 2025

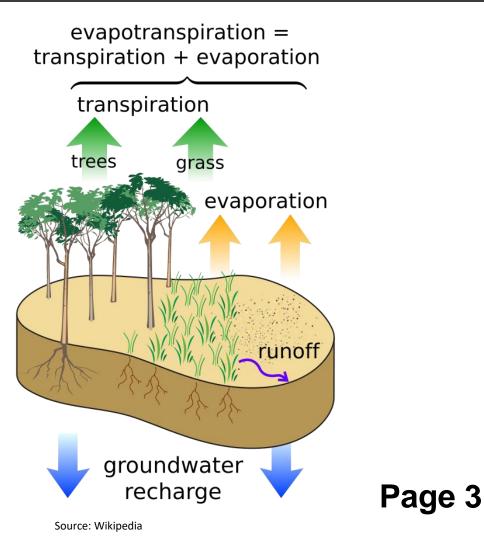
Presentation by Planning Services





#### **Benefits of Urban Forest**

- Air Quality
- Temperature Mitigation
- Carbon Storage
- Stormwater Runoff
- Biodiversity
- Overall Well-Being







## Where We Were - History of Our Trees

- Deforestation
  - Logging
  - Prospecting
  - Mining
- Regreening
  - VETAC
  - Regreening focuses on large parcels and rural areas



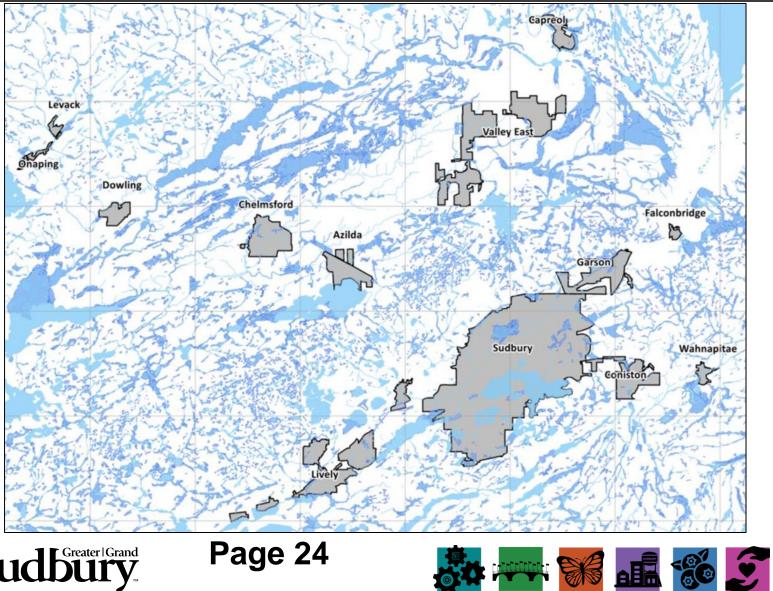
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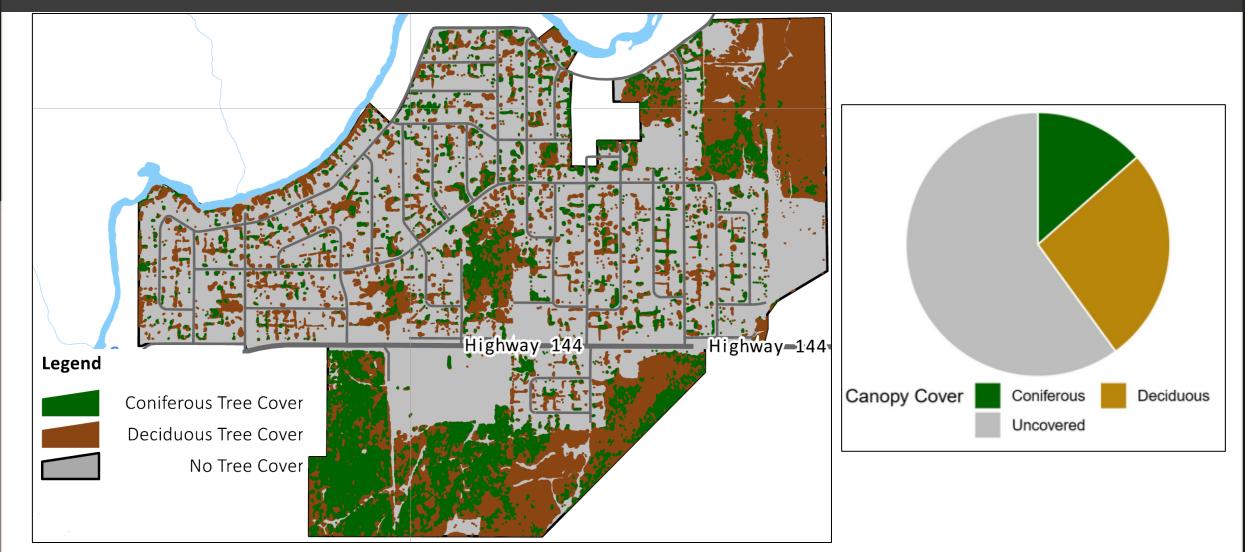
#### Where We Are - What is the Urban Forest?

- Includes only urbanized settlement areas
- Includes all trees on public and private lands
- Data collected 2022
  - Reflective of Emerald ash borer





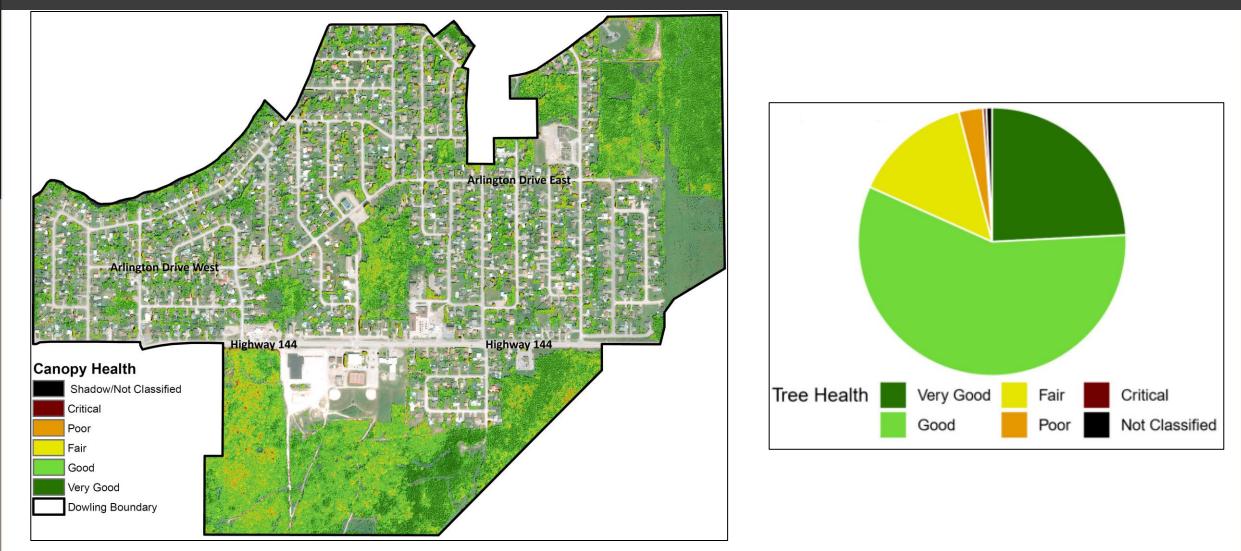
#### Where We Are - Dowling Tree Composition







#### Where We Are - Dowling Tree Health







- Majority of canopy (85.9%) is in Very Good or Good health
- Very little of canopy (2.0%) in Poor or Critical health
- City-wide canopy cover of 32.6%
  - Ottawa 31%
  - Vancouver 31%
  - Toronto 28%
  - Montreal under 25%
  - Calgary 8%



Tree Health	Percentage of Canopy Cover						
Very Good	34.5%						
Good	51.4%						
Fair	5.9%						
Poor	1.7%						
Critical	0.3%						
Shadow/Not Classified	6.1%						

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#### Where Are We Going? - Creating the UFMP

- Key Document & Best Practice Review
- Consultation
  - Internal & External Stakeholders
  - Public Consultation







#### Where Are We Going? - Vision Statement & Goals

#### **Vision Statement**

It's 2050 and the City of Greater Sudbury is known as Northeastern Ontario's greenest city. The City's urban forest has a rich, diverse and healthy canopy, that stores carbon, cools the city, cleans the air, provides habitat for wildlife, makes for walkable streets, and improves our mental health, satisfaction and well-being.



#### Goals

- 1. <u>Vegetation Resource</u>: CGS's canopy is 75% or more of what is achievable, and able to tolerate stressors related to historically impacted soils and a changing climate.
- 2. <u>Community Involvement:</u> CGS's management of the urban forest includes meaningful contributions from community members.
- 3. <u>Resource Management: CGS's urban forest is equitably managed using best practices.</u>





### Where Are We Going? - Urban Forest Management Framework

- 28 Key Indicators in Framework
- Vegetation Resource
  - 7 indicators
- Community Involvement
  - 7 indicators
- Resource Management
  - 14 indicators
- Urban Forest Scored Against All 28

Goal	Key	Objectives	Performance Level						
Guar	Indicator	Objectives	Low	Fair	Good	Optimal			
Urban Forest Resource	V1: Relative Tree Canopy Cover	Achieve desired degree of tree cover, based on potential or according to goals set for entire municipality and for each neighbourhood or land use.	The existing canopy cover for entire municipality is <50% of the desired canopy.	50%-75% of desired.	The existing canopy is >75%-100% of desired.	The existing canopy is >75%-100% of desired-at individual neighbourhood level as well as overall municipality.			
	V2: Age diversity (size class distribution)	Provide for ideal uneven age distribution of all "intensively" (or individually) managed trees- municipality-wide as well as at a neighbourhood level.	Even-aged distribution, or highly skewed toward a single age class (maturity stage) across entire population	Some uneven distribution, but most of the tree population falls into a single age class.	Total tree population across municipality approaches an ideal age distribution of 40% juvenile, 30% semi- mature, 20% mature, and 10% senescent.	Total population approaches that ideal distribution municipality- wide as well as at the neighbourhood level			
	V3: Species diversity	Establish a genetically diverse tree population across municipality as well as at the neighbourhood level.	Five or fewer species dominate the entire tree population across municipality.	No single species represents more than 10% of total tree population; no genus more than 20%; and no family more than 30%.	No single species represents more than 5% of total tree population; no genus more than 10%; and no family more than 15%.	At least as diverse as "Good" rating (5/10/15) municipality-wide – and at least as diverse as "Fair" (10/20/30) at the neighbourhood level.			
	V4: Species suitability	Establish a tree population suited to the urban environment and adapted to the overall region.	Fewer than 50% of all trees are from species considered suitable for the area.	NE09/ 759/ of trace	More than 75% of trees are suitable for the area.	Virtually all trees are suitable for the area.			
	V5: Publicly owned trees (trees managed "intensively")	Current and detailed understanding of the condition and risk potential of all publicly owned trees that are managed intensively (or individually)	Condition of urban forest is unknown.	Sample-based tree inventory indicating tree condition and risk level.	Complete tree inventory that includes detailed tree condition ratings.	Complete tree inventory that is GIS-based and includes detailed tree condition as well as risk ratings.			
	V6: Publicly owned natural areas (trees managed "extensively")	Detailed understanding of the ecological structure and function of all publicly owned natural areas (such as woodlands, ravines, stream corridors, etc.), as well as usage patterns.	No information about publicly owned natural areas.	Publicly owned natural areas identified in a "natural areas survey" or similar document.	Survey document also tracks level and type of public use in publicly owned natural areas.	In addition to usage pattems, ecological structure and function of all publicly owned natural areas are also assessed and documented.			
	V7: Trees on private property	Understanding of extent, location, and general condition of privately owned trees across the urban forest.	No information about privately owned trees.	Aerial, point-based assessment of tree on private property, capturing overall extent and location.	Bottom-up, sample- based assessment of trees on private property, as well as basic aerial view (as described in "Fair" rating).	Bottom-up, sample-based assessment on private property, as well as detailed Urban Tree Canopy (UTC) analysis of entire urban forest, integrated into municipality-wide GIS system.			



**Appendix A** 

#### Where Are We Going? - Recommendations

Recommendation		Implementation Period			iod				Implementation Period				
		2024- 2029	2029- 2034	2034- 2039	2039- 2044	Anticipated outcomes	Recommendation		2024- 2029	2029- 2034	2034- 2039	2039- 2044	Anticipated outcomes
1.	Develop an Urban Forest Working Group to formally coordinate	x				Working Group established early in 2024	8.	Working Group to develop a plan for consulting with green industry.	x				Plan developed early in the 2024 - 2029 period. To include monitoring of the engagement success to inform adaptations to the plan.
	activities of department leads.					Relationship between canopy and median	9.	Working group to regularly review development policies to ensure consistency with urban forest		x		x	Formal review of policies periodically.
	Additional canopy be prioritized in					household income flattens.		management initiatives.					Dian developed early in the 2024 2020 period
2.	dissemination areas with lower median household incomes.	x	X	x	x	Canopy coverage is meaningfully increased in neighbourhoods that currently have canopy below reasonably achievable levels.	10.	Working Group to develop a plan for consulting with large land holders in the CGS.	x				Plan developed early in the 2024 - 2029 period. To include monitoring of the engagement success to inform adaptations to the plan.
3.	The urban canopy be re-assessed in 2042.				x	Canopy reassessment in ~2042 to inform next 20-year master plan.		Working Group to develop educational materials to be					Educational materials to be developed early in the first five-year implementation period, and
4.	Working group established to develop a data collection plan.	x				Data collection standards developed. Process for collecting, storing and synthesizing data established	11.	disseminated and inform the public about best practices for managing street trees.	x	x	x	x	then updated at least every five years to reflect changing conditions, such as level of stakeholder engagement, or environmental.
5	Working Group to establish		x			Age and species diversity existing conditions is	12.	Working Group to monitor community level of engagement at approximately five-year intervals	x	x	x	x	Public awareness and appreciation increases. Health of street trees increases.
	planting plans to meet age/species diversity target.					quantified in 2034-2039	13.	Working Group to review and pursue funding opportunities	x	x	x	x	Funding opportunities to be reviewed annually.
6.	Working Group to develop, update and formalize internal practices for site and species selection.	×	×	×	×	As conditions change.	14.	Working Group to annually review needs and resources and inform council.	x	x	x	x	Communication with council to occur via annual workplans.
7.	Working group to develop a formal plan for monitoring the use and ecological structure and function of the natural heritage features.	x				Monitoring plan developed in first five-year period, with data collection through the full 20- year period, informing the next urban forest master plan update	15.	Working group to update planting and maintenance procedures to reflect changing conditions or updated best practices.	x	x	x	x	Working group members will update existing or develop new procedures (as appropriate) to provide continuity through staff turnover.

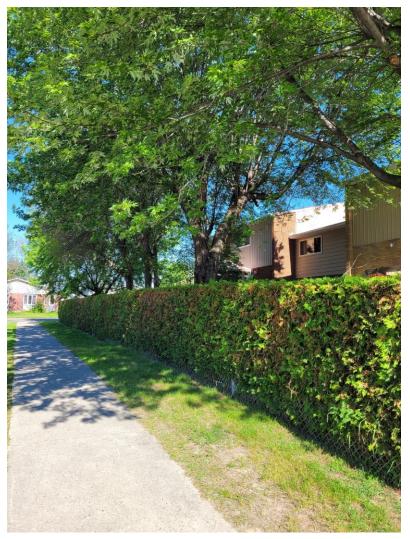
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#### Where Are We Going? - Implementation Strategy

- UFMP is a 20 Year Plan
- 2025 work plan supports recommendations
- Annual reporting
  - Resource needs
  - Achievements
  - Yearly implementation plan







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