UTILIZING COLLABORTIVE REGIONAL BASED PRIORITIZATION TO GARNER SUPPORT AND FUNDING FOR RESTORATION IMPLEMENTATION PROGRAMING

Ralph Toninger, Associate Director Resource Management Projects Group Toronto and Region Conservation Authority



August 28, 2018

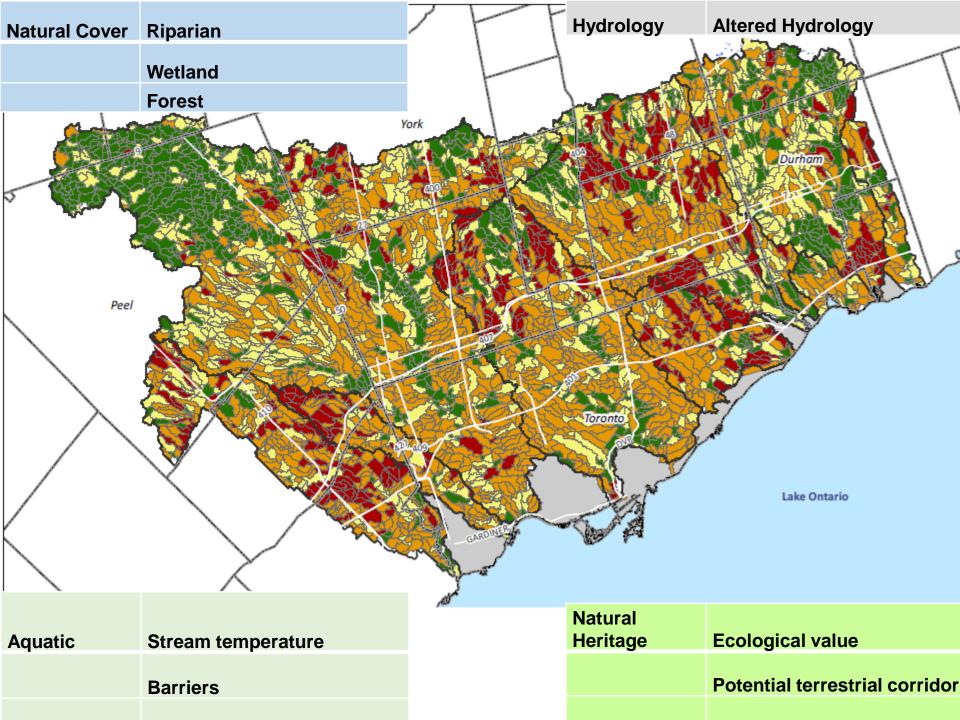
Presentation Outline

- Background and Rationale
- Strategic Restoration Programs and Partnerships
- Compensation Restoration Programs and Partnerships
- Natural Cover and Tree Planting Strategies
- Summery and Next Steps

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Building a Solid Restoration Program Strategic or Opportunistic?

Reforestation / Forest Management	1970
Wetland Restoration	
Remedial Action Plans	1980
Coastal Marsh Restoration	1990
Environmental Farm Plans	
Oak Ridge Moraine	2000
Source Water Protection	
Species at Risk	2010
Climate Change	2018

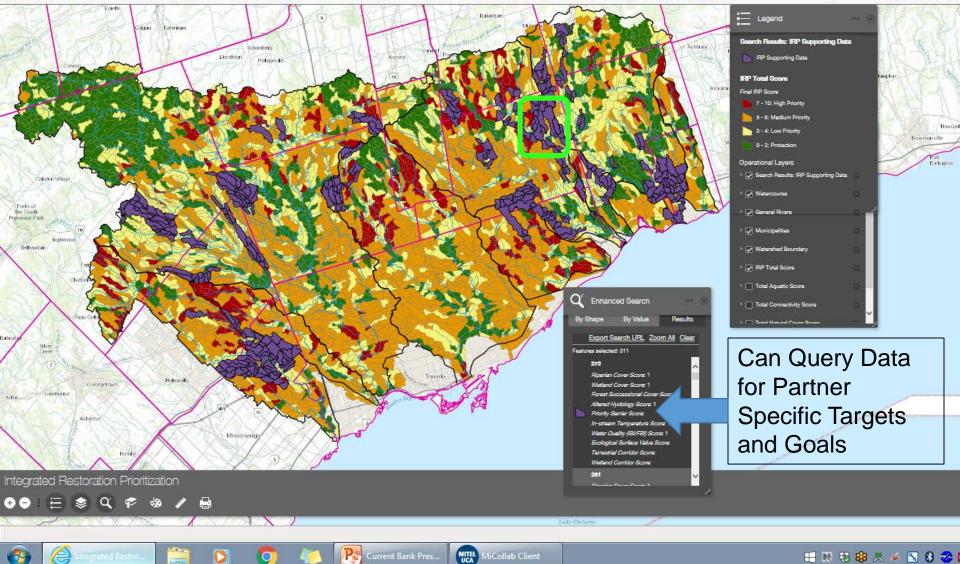


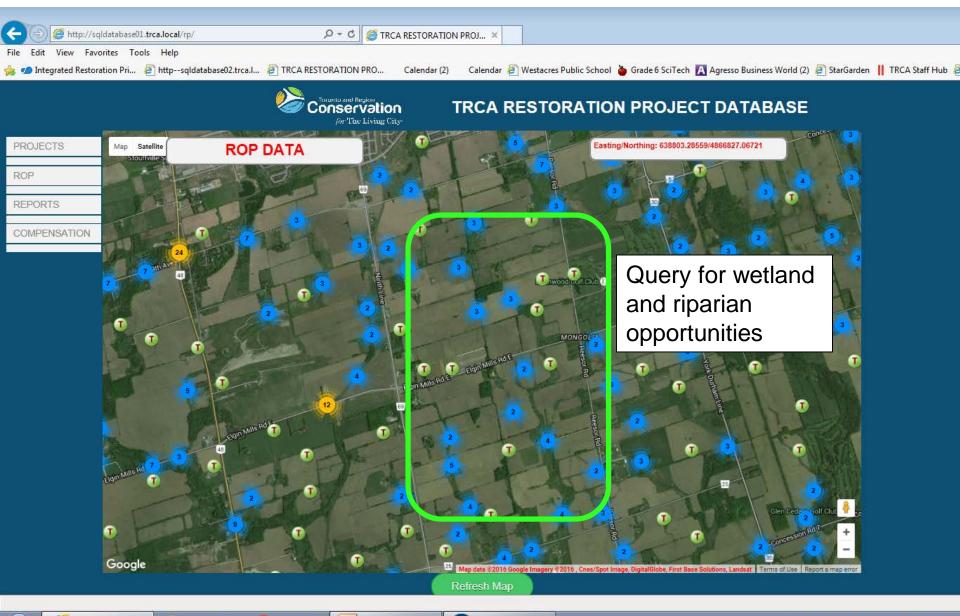
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Current Bank Pres... MITEL MiCollab Client

9 Watersheds Etobicoke Creek, Mimico Creek, Humber River, Don River, Highland Creek, Rouge River, Petticoat Creek, Duffins Creek and Carruthers Creek



6 municipalities: City of Toronto;

Regional Municipalities of Durham, Peel and York; Township of Adjala-Tosorontio Town of Mono.

12 Lower Tier Municipalities: Pickering, Ajax, Caledon, Mississauga, Brampton, Richmond Hill, Aurora, Vaughan, King, Markham, Uxbridge, Whitchurch-Stouffville Oak Ridge Moraine Transport Canada Lands Rouge Urban National Park

Population 3,200,000 3,467 km²

Strategic Restoration Plans, Programs and Initiatives

Toronto Remedial Action Plan Ontario Power Generation (OPG) Oak Ridge Moraine **Transport Canada Rouge Urban National Park** Atlantic Salmon Recovery City of Toronto Forest Ontario **Ontario Federation of Anglers and Hunters**

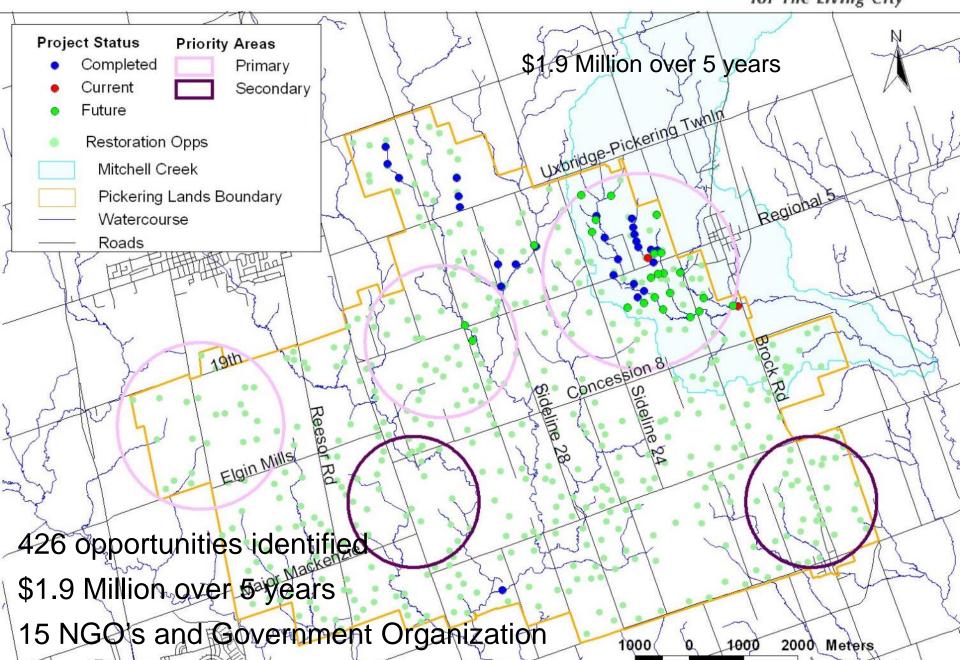
Salamander Foundation *Great Lakes Sustainability Fund Species At Risk Overall Benefit Programs Private Landowner Stewardship Programs



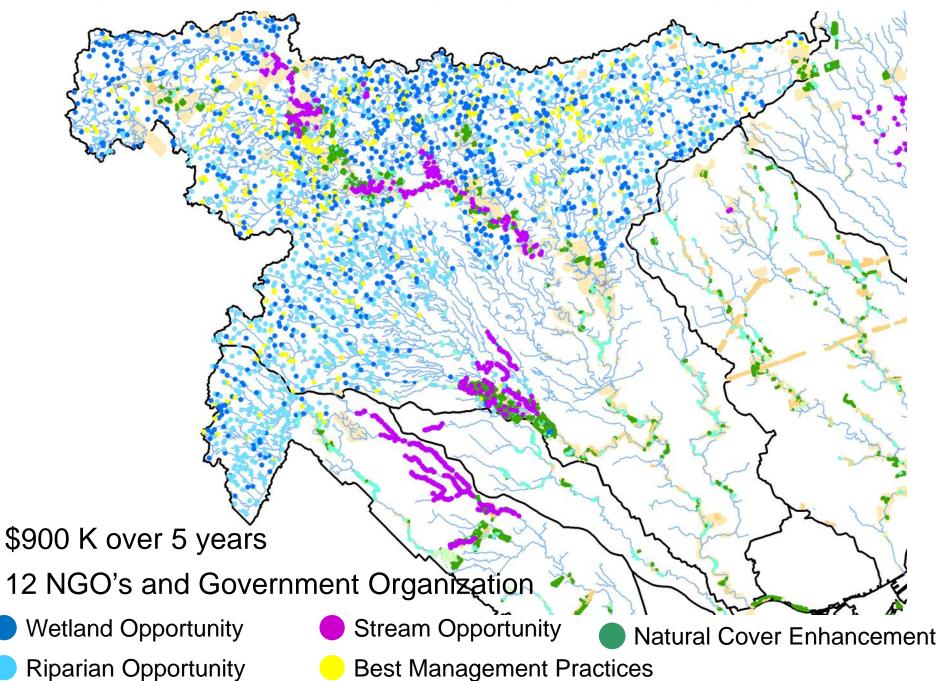


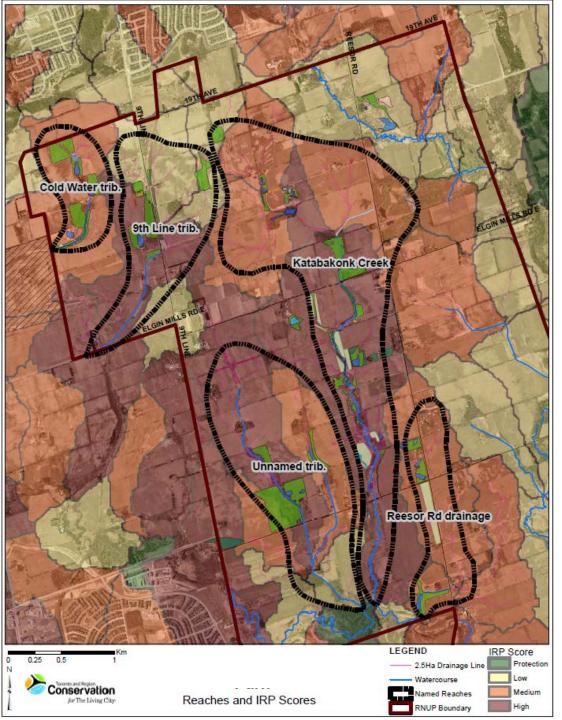
Pickering Lands Site Opportunities and Completed Works





HUMBER RIVER ATLANTIC SALMON HABITAT RESTORATION





Rouge Urban National Park Restoration

- High priority restoration opportunities within a high priority catchment
- Reach based prioritization and implementation
- Cumulative and multiple benefits can be achieved (aquatic, natural cover, hydrology, corridor)
- Metrics to determine priority can also be used to measure change (e.g. below average to above average riparian cover)

Rouge Watershed to 2017

40 ha wetland including plantings
3912m of riparian planting
26.6ha of forest planting
750 Structural Habitats
6 barriers mitigated
32,000 trees and shrubs planted

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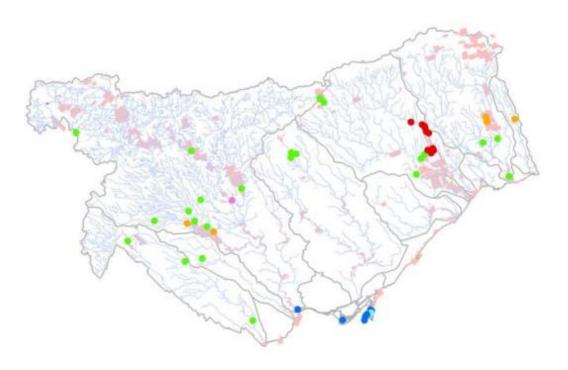
\$2.7 million over 3 years3 Government Organization and Tenants



TRCA Compensation Banking Program

TRCA has been working with partners to implement restoration projects for a variety of compensation requirements

- \$13 million received from 2006 to 2017
- \$8 million has been implemented
- \$5 million in progress or to be implemented

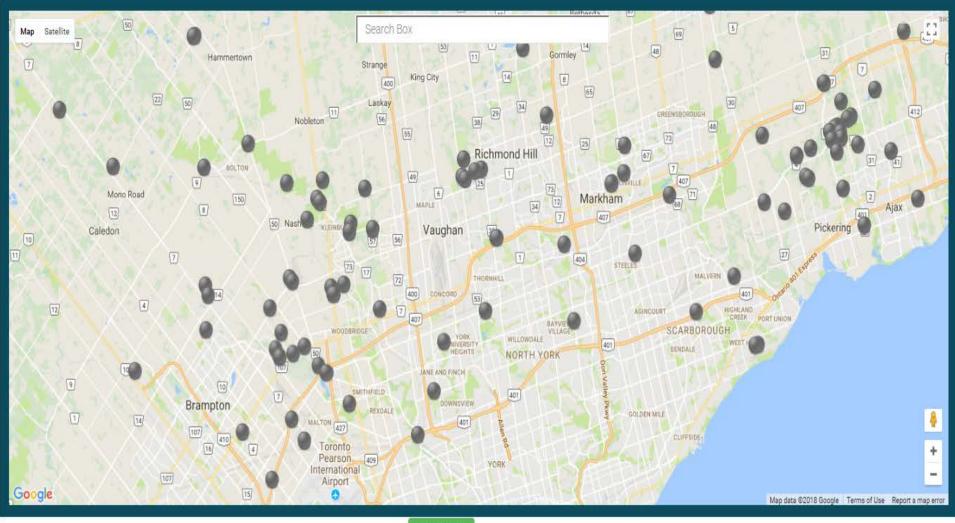


Projects from 2005 to 2017

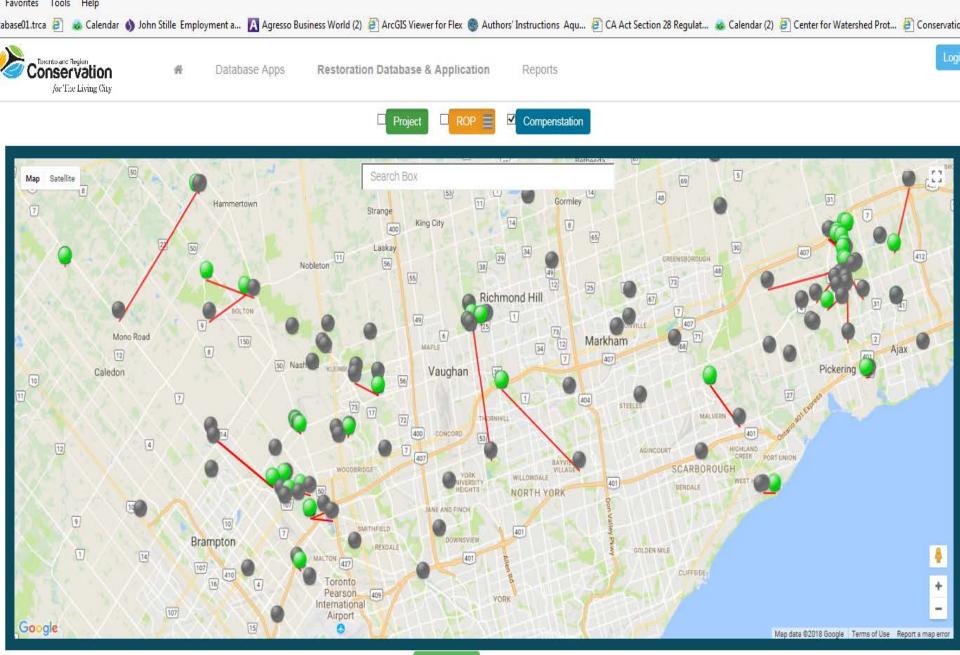
Mechanism	Projects
TRCA/Municipal	56
Dep Fisheries Oce	13
Species at Risk	9
Environmental Assessment	2
Independent	2
Total	82

190 Total Hectares Restored

Compensation Restoration Programs and The TRCA Compensation Bank



Refresh Map



Refresh Map

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Natural Cover Strategies, Tree Planting Plans and Tree Canopy Initiatives

York Region City of Markham City of Vaughan Town of Richmond Hill

City of Toronto

Peel Region City of Brampton City of Mississauga

Durham Region City of Pickering





Conservation TRCA Data Viewer

Richmond Hill

Total

Markham

Pickering

10,201

21,268

21,361

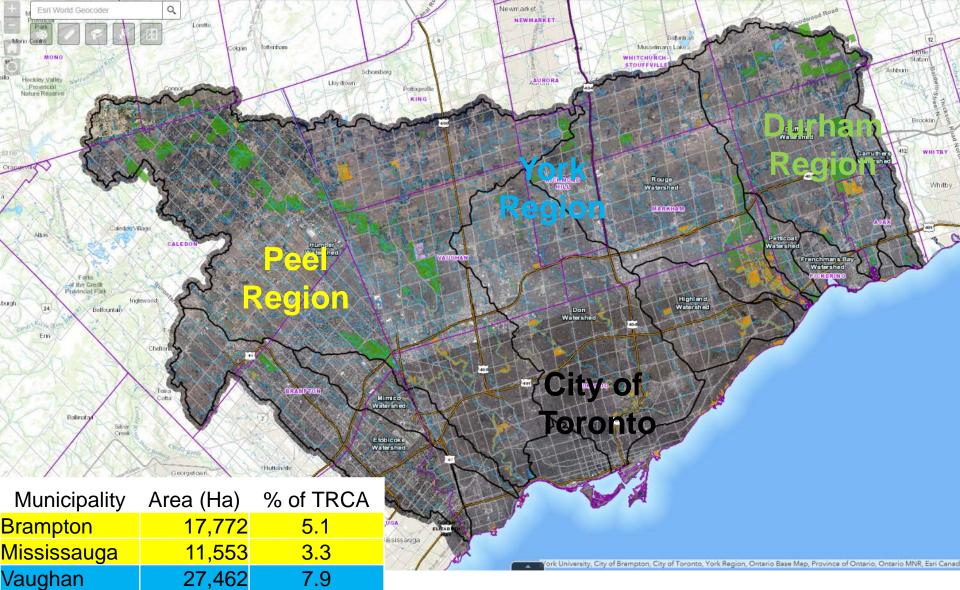
109,616

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31.6

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100% Municipal Partnership by 2021

Toronto and Region Conservation Authority 17

York Region

40% Canopy Target

City of Markham City of Vaughan Town of Richmond Hill *Rouge Urban National Park

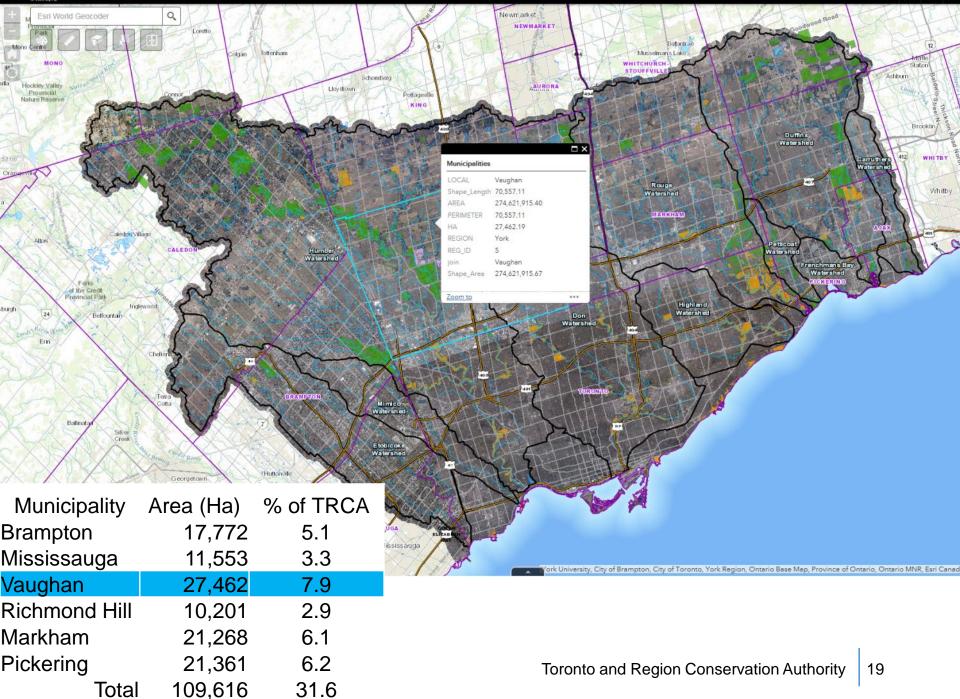
86,335 Trees and shrubs planted by TRCA



Plantings occur on public and private land in all nine municipalities.

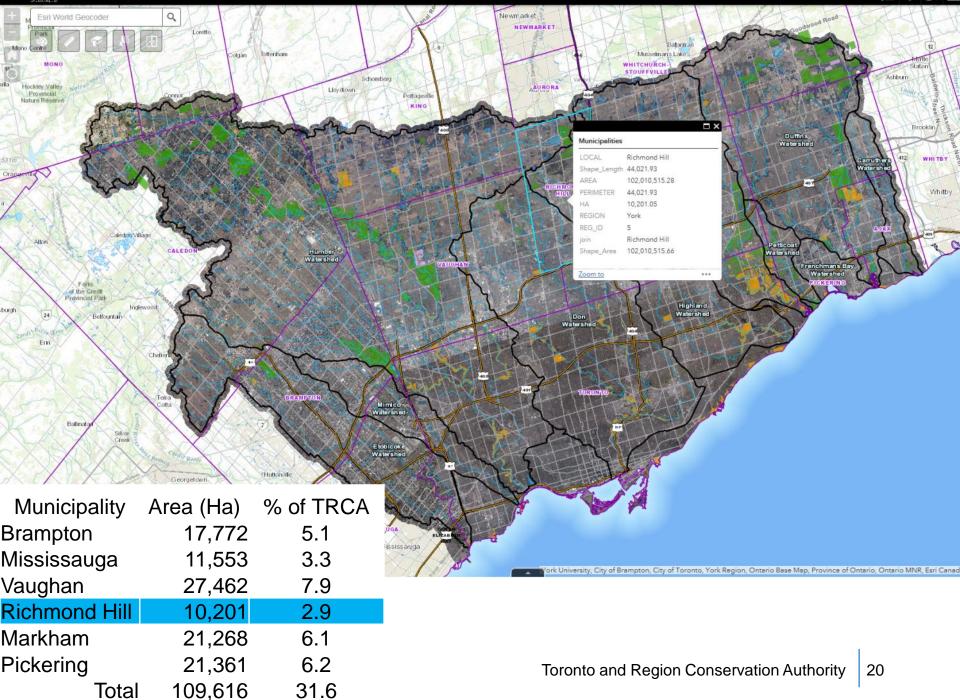
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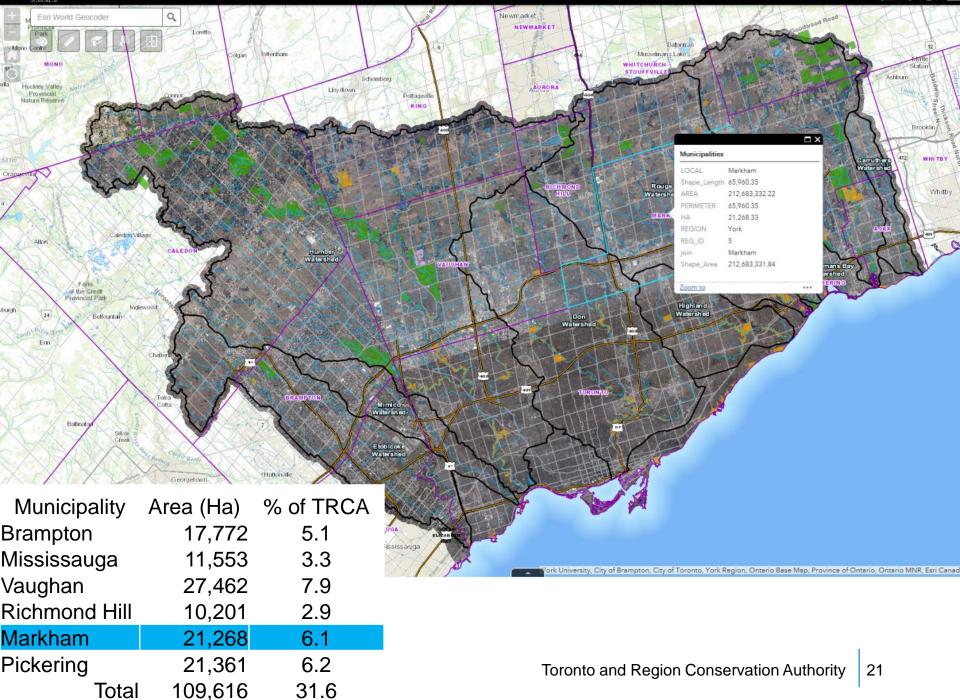
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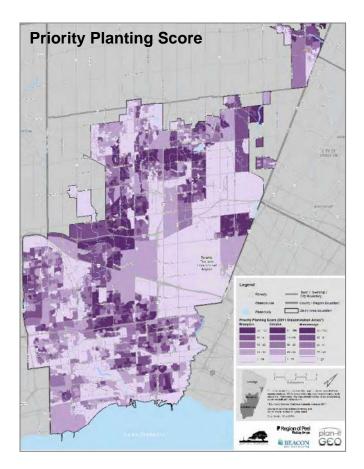
Peel Urban Forestry Initiatives

Peel Region's Tree Planting Prioritization Tool

- GIS mapping tool that allows users (municipal foresters) to identify planting opportunity zones based on desired ecosystem services
- Produces 1) Benefits Score Maps, and 2) Priority Planting Score Maps at a multiple scales (e.g. Ward, DA)

Peel Region Heat Vulnerability Analysis

- Identify sites with high exposure, high sensitivity, and low adaptive capacity
- Establish climate tolerant trees



Summery and Next Steps

- Continue Developing Partnerships with reamaing Municipalities
- Develop 5-10 Implementation Strategies
- Further Develop the Urban Canopy and Green Infrastructure Tools
- Develop an Climate Change Implementation Strategy



Region of Peel Working for you

THANK YOU!



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IRP TOTAL SCORE: **High Priority (Dark Green)** can be highlighted as a first screening for acquisition areas. TRCA Property is in solid green. Cluster of high ecological and corridor potential (blue) in between TRCA property (solid green)

Priority Areas with Parcel Layer

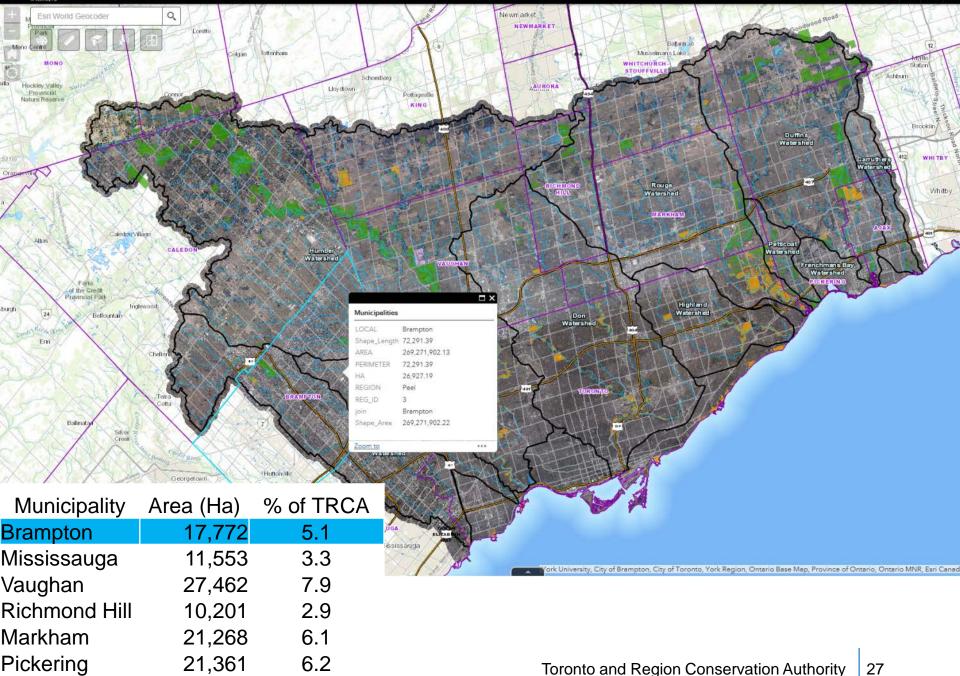
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