




# Improve your Bottom Line with Vaughan Business Programs

- Audience microphones are muted
- Submit questions at any time via the tool bar (questions only visible to organizer)
- Recording & slides will be shared after the webinar

November 4, 2020

# Agenda

	Topic	Speaker
	Welcome and Introductions	Jeff Robertson
	Why are we here?	Jeff Robertson
	Thornhill Sustainable Neighbourhood Action Plan	Patricia Lewis
	Programs and support for Vaughan businesses	Lindsay Davidson
	Partners in Project Green programs and business results	Jeff Robertson
	Q and A	



Interactive Feature

*The information contained in this presentation is copyright © Toronto and Region Conservation Authority*



**Jeff Robertson**  
**Senior Manager, Partners  
in Project Green, TRCA**



**Patricia Lewis**  
**Project Manager, SNAP  
Projects, TRCA**



**Lindsay Davidson**  
**Small Business Advisor,  
City of Vaughan**

# Why are we here? (Poll)

# About TRCA: Our History and Mission

Established under the Conservation Authorities Act, TRCA brings over 60 years of experience to our stakeholders

Our mission, which is based on our Provincial mandate, is to protect, conserve and restore natural resources and develop resilient communities through education, the application of science, community engagement, service excellence and collaboration with our partners



# Key Drivers – Why Take Action on Sustainability?

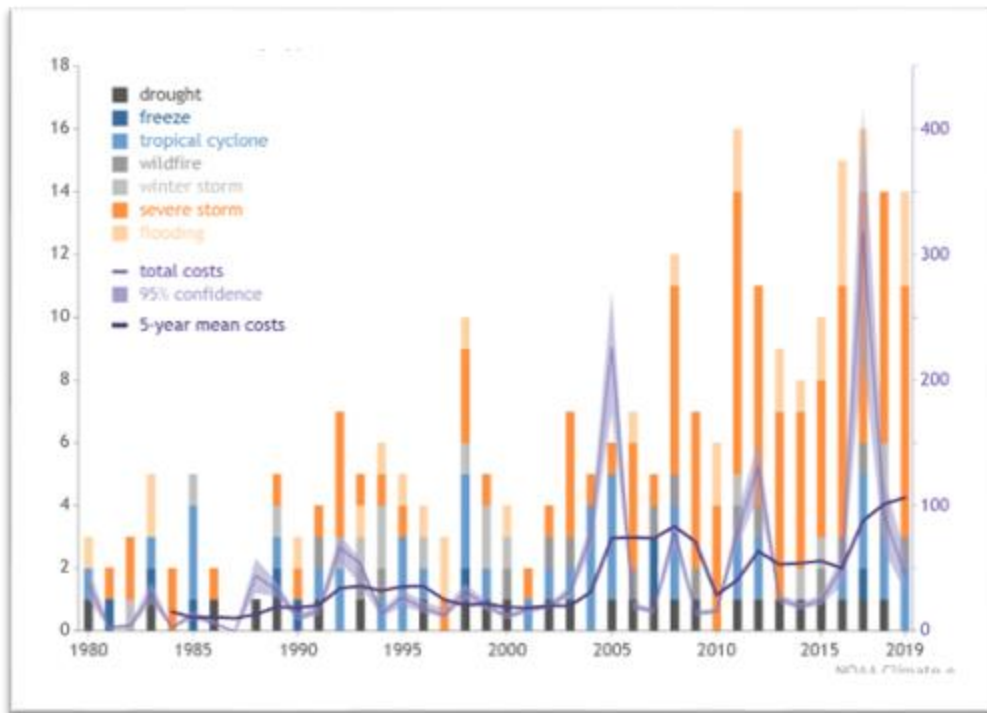
The heat is on businesses to respond to climate change

Jan 15, 2020



Climate change threatens 'both the economy and the financial system,' says Bank of Canada

May 16, 2019



# Climate Risks - Canada



## Flood damage

Insurance claims for flood damage now **\$1B annually** in Canada, up from \$400M in past decades

Federal government pays **\$2B annually**, up from \$100M two decades ago

*Source: [Ontario Centre for Climate Impacts and Adaptation Resources \(2015\)](#)*

## Wildfires

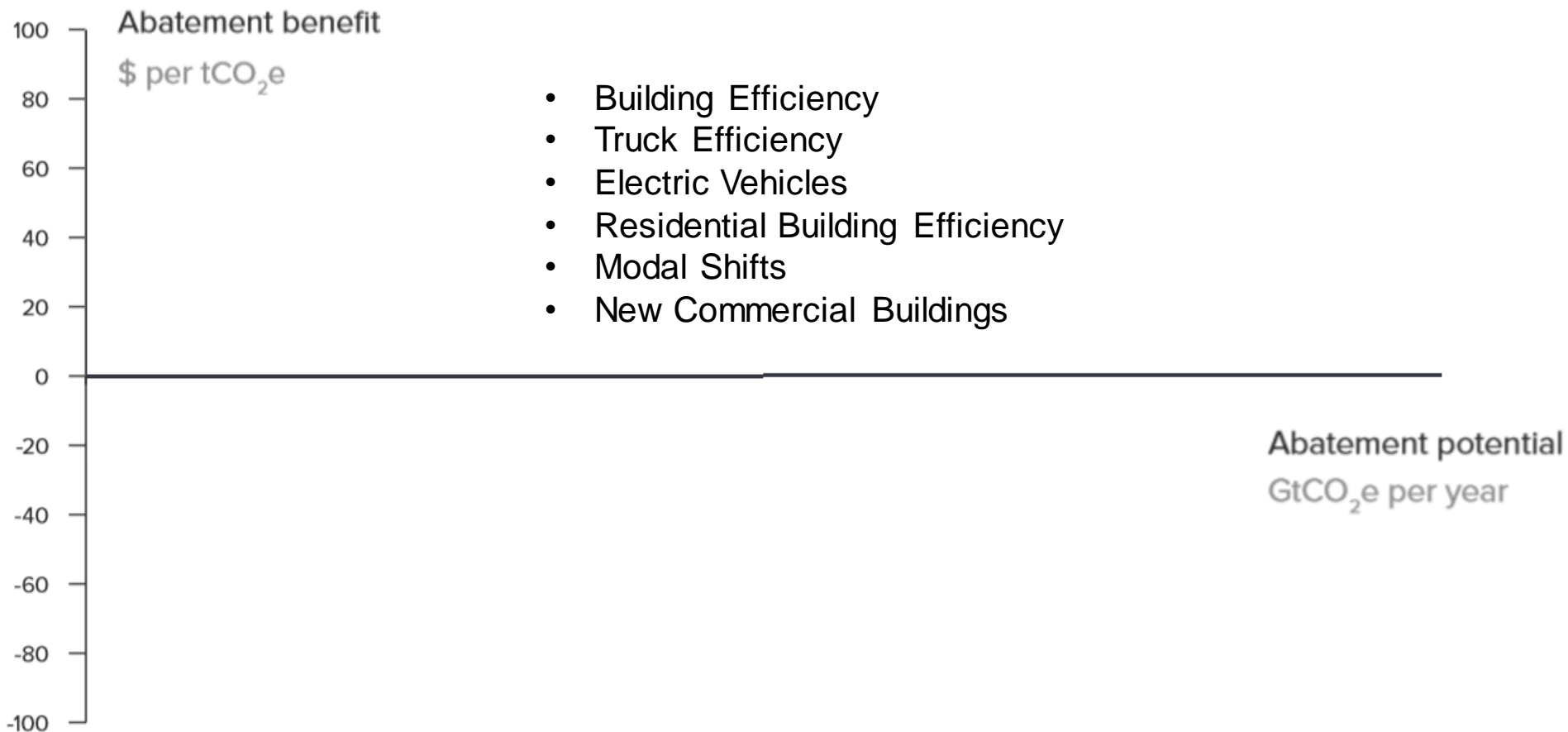
BC wildfire costs increasing decade-over-decade, 2017 year cost over \$0.5B

*Source: [Conference Board of Canada \(2018\)](#)*



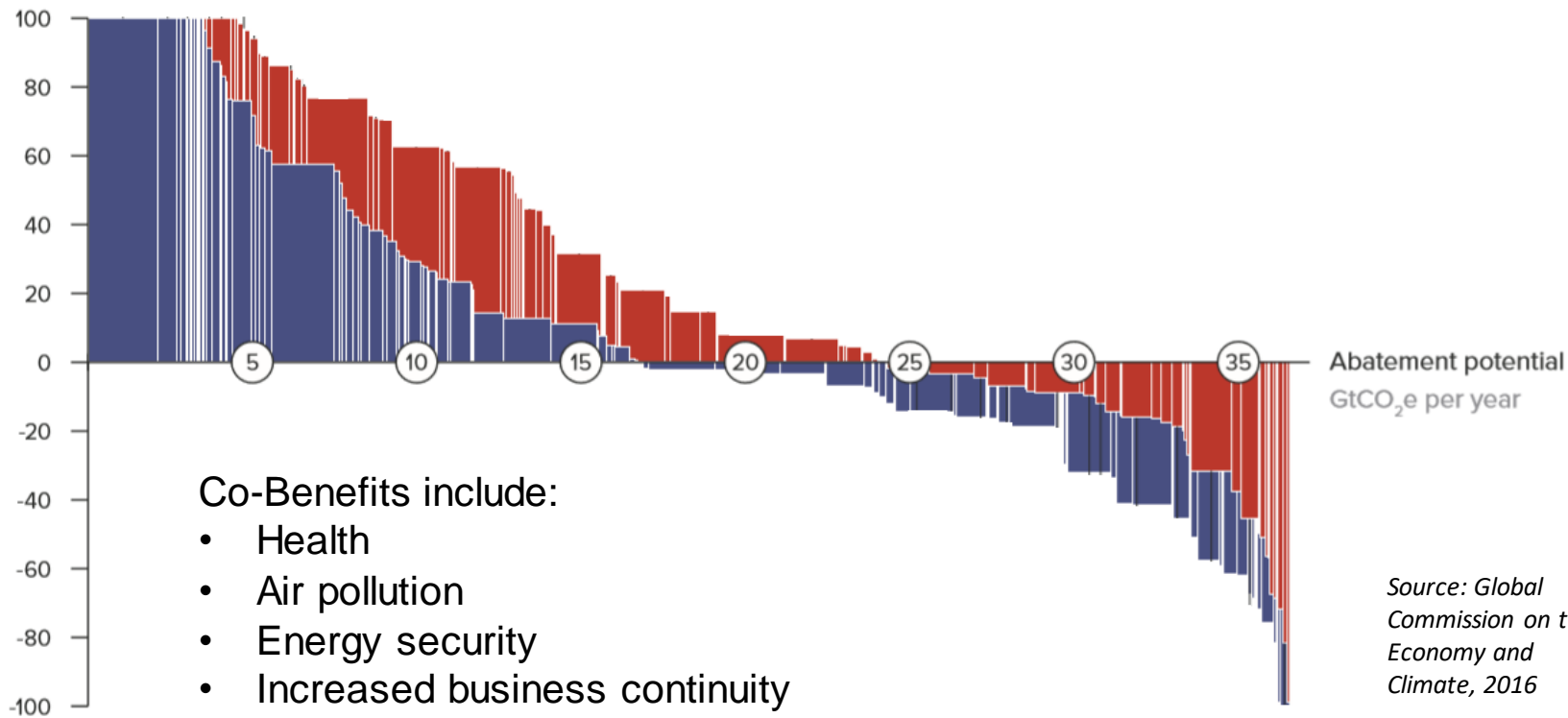
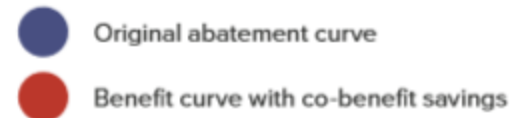
# The Opportunity





## Abatement benefit

\$ per tCO<sub>2</sub>e



Source: Global  
Commission on the  
Economy and  
Climate, 2016

# The Opportunity

**FORTUNE**

**Consumers Say They Want More Sustainable Products. Now They Have the Receipts to Prove It**

By RENAE REINTS  
November 5, 2019 9:30 AM EST

**WORLD  
ECONOMIC  
FORUM**

**Fighting climate change could add \$26 trillion to the global economy by 2030**

Sept 11, 2018

**de  
zeen**

**"Operational progress is what moves the needle" towards zero-carbon design says Nike's head of sustainability**

Oct 1, 2020

**BARRON'S**

**Two-Thirds of North Americans Prefer Eco Friendly Brands, Study Finds**

By Dinara Bekmagambetova Jan. 10, 2020 8:08 am ET

# Poll – Your Objectives

# Thornhill Sustainable Neighbourhood Action Plan (SNAP)

November 4, 2020

# Sustainable Neighbourhood Action Program (SNAP)

A program to help older neighbourhoods become more sustainable and better places to live.

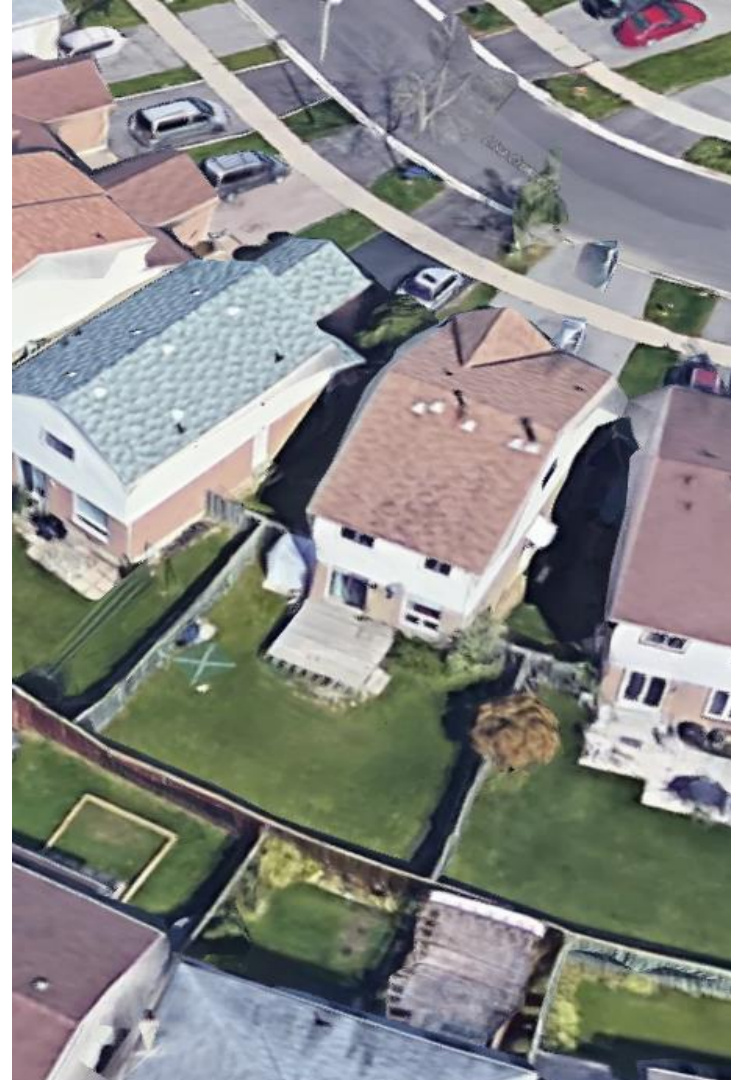


- ✓ Brings together technical objectives with residents' priorities.
- ✓ Works on all land uses within a neighbourhood.
- ✓ Works with local groups and develops partnerships with all sectors to make things happen.

# Key Priorities

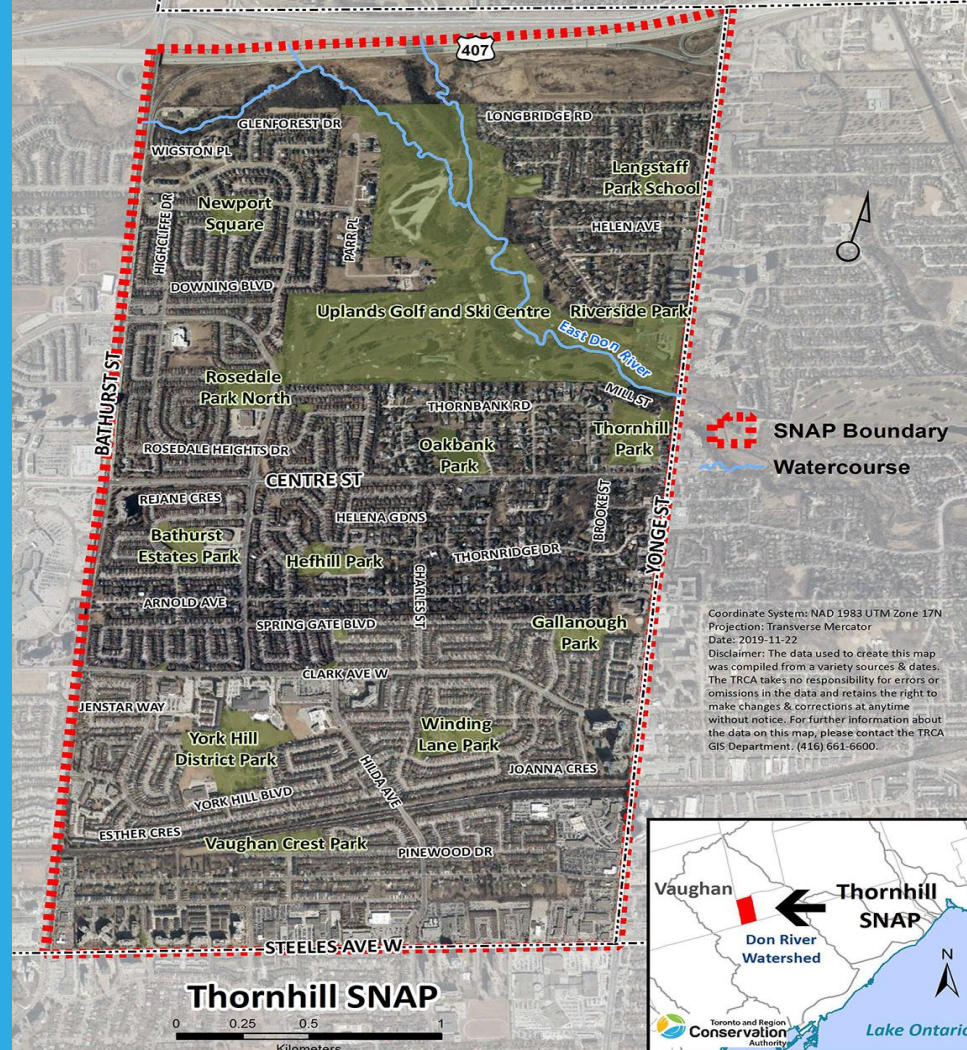
---

- Flood Vulnerable Area
- High priority for implementation of Low Impact Development
- Catchments with sensitive target fish species
- High indoor and outdoor water use
- High energy use and intensity.
- Urban heat stress
- Areas of concentrated disadvantage
- High priority for environmental learning (seniors)





# Thornhill SNAP Study Area





# Engagement To Date

---

- Meetings with Councillor Shefman
- Stakeholder engagement with community groups & organizations
- Resident Survey
  - 103 Respondents
- Resident e-mails and documents with recommendations
- First Nation Communities
- Workshop #1 – January 2020
  - 70 attended
  - Over 1450 comments
  - 9 residents willing to volunteer



# Sustainability Themes

---



**Stormwater Management  
and Water Efficiency**



**Energy and Climate**



**Ecosystem Integrity**



**Sustainable  
Transportation**



**Access and Mobility**



**Waste and Materials  
Management**



**Health and Well-Being**



**Culture, Heritage and  
Education**

# Motivating Themes

---

## Primary Themes

- Revitalized, Connected Parks & Open Space
- Sustainable Retrofits in Homes & Institutions
- Pleasant, Connected Active Transportation
- Community Connections & Livability
- Nature in the City

## Secondary Themes

- Flood Prevention
- Aging in Place
- Accessibility
- Traffic & Transit
- History & Culture
- Safety & Security
- Local Food
- City Services
- New Development



# Integrated Projects

---

Technical  
Priorities

Motivating  
Themes

Planned Municipal  
Projects

## 1. Connected Places, People and Ecosystems

- Active transportation/trails
- Green infrastructure
- Parks & open space revitalization
- Community events & programming

## 2. Residential Retrofit Program

## 3. Greening and Humanization of MUR, Institutional and Commercial Properties



**Informed by a Neighbourhood  
Resiliency Strategy**

# Draft Action Plan Map

## Google "Thornhill SNAP"

### THORNHILL SNAP NEIGHBOURHOOD

## Sustainable Neighbourhood Action Program



### Vision Statement

A historically rich, culturally diverse, green and connected neighbourhood where residents stay active and celebrate their community together.

### Connected Places, People & Ecosystems

Series of project initiatives, including an **Active Transportation Plan** for improved pedestrian and cycling options, a **Green Infrastructure Plan** to add more trees and habitat across the neighbourhood and improve stormwater management, as well as initiatives related to the **Revitalization of Parks and Open Spaces** as interesting destinations with diverse amenities that respond to current community priorities. Inclusion of educational and cultural programming and events to encourage community connections.

### Residential Retrofit Program

Provision of supports and programming for homeowners to assist them with identification and implementation of actions to make their homes and their properties more efficient and more resilient to extreme climate events.

### Greening and Humanization of Multi-Unit Residential (MUR), Commercial and Institutional Buildings

Focus on creating more sustainable and resilient buildings, parking lots and outdoor spaces associated with MUR, institutional and commercial properties within the community. Development of spaces within these properties that celebrate culture and history and that allow the community to gather and connect.

### SIGNATURE PROJECTS

Innovative projects that will be co-designed by the community and will demonstrate how multiple co-benefits and diverse, neighbourhood-wide objectives can be achieved on the site.





# SNAP's Approach to MURB & ICI Revitalization



# Design Principles for MURBs & ICI Projects

- Encourage sustainable and resilient buildings, parking lots and outdoor spaces
- connected natural heritage
- Make accessible through active transportation and have bike facilities
- Make fully accessible for all mobility users
- Encourage community connections through physical improvements (e.g. street-facing facades), events and programming
- Encourage connections with nature and environmental education
- Integrate celebration of arts, culture and neighbourhood's historical heritage through programming and/or physical improvements
- Consider for emergency centres for extreme climate events
- Consider emergency back up power and access to elevators during outages related to extreme weather events for MURBs
- Consider offering access to local food through urban agriculture, farmer's market, retail, etc.)
- Prioritize safety

# What we heard

## Spring Farm Market Place

EV parking/bicycle parking  
Trees, flowers, aesthetics  
Patos, benches  
Celebrate historical heritage

## MURBs (in general)

Eco-landscaping/Trees/Habitat  
Improving contact with nature for tenants  
Underutilized outdoor spaces  
Community gathering

## Garnet A Williams CC

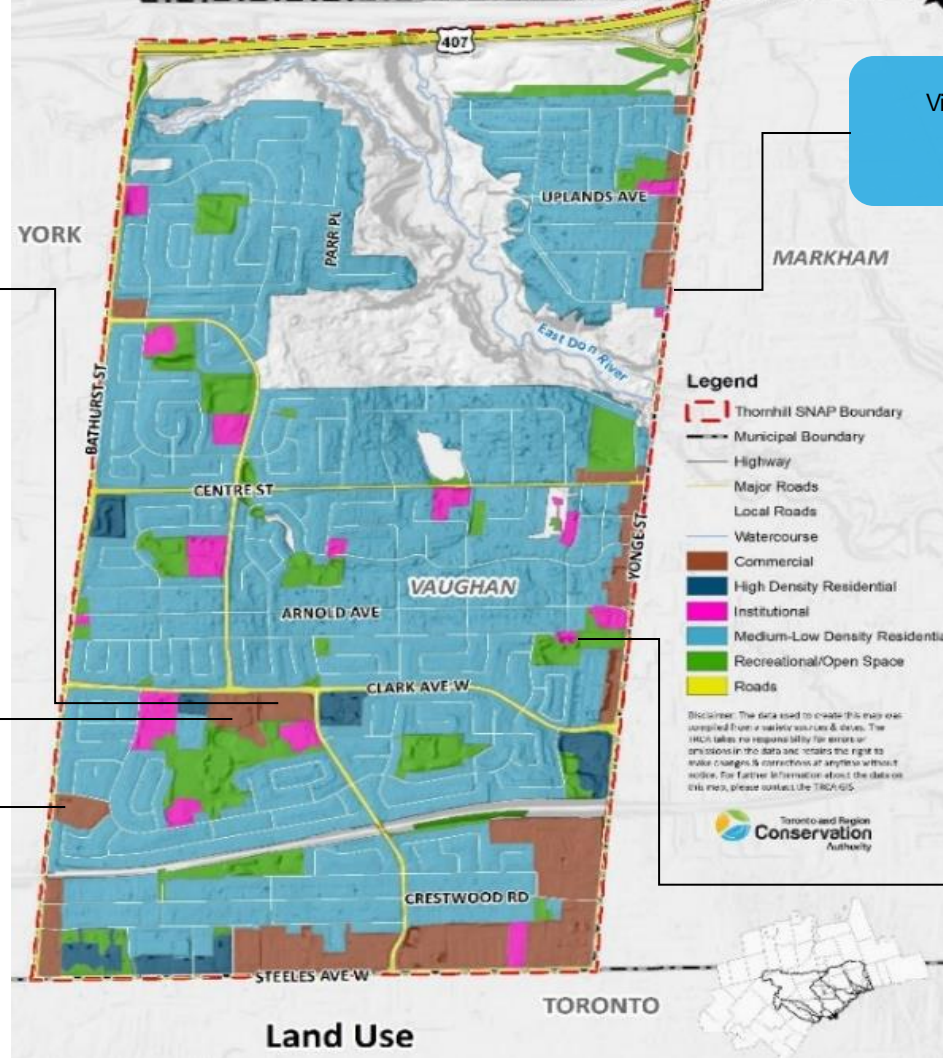
Green building/efficiencies  
Emergency preparedness Centre  
Community building spaces  
Farmers Market  
Celebrate historical heritage

## Chabad Gate Plaza

EV parking/bicycle parking  
Trees, flowers, aesthetics  
Patos, benches

**Historic District**  
Village feel (Unionville)  
Outdoor patios  
Programming

**Gallanough Resource Centre**  
Programming, building upgrades, amphitheatre revitalization  
Community hub  
Celebrate historical heritage





# Example Projects



Depave Paradise  
in co-op housing



Innovative energy  
technology pilot



Green Parking Lot Design

Energy  
benchmarking  
in retail



# Fruit Orchard, Naturalization, Pollinator Gardens and Rain-Harvesting



## Planted:

- 24 Fruit trees
- Over 1500 pollinator plants and 426 native trees



## Skills Training:

- Certification for Residents on Orchard Management, Fruit Tree Care & Horticulture
- Internship Opportunities

# Allotment Garden Supported with Rain-Harvesting



## Community Garden

- 63 Plots- Sold out the first day!

## Skills Training:

- Garden Management and Urban Agriculture Training for Residents



## Balcony Gardens

- 148 balconies implemented in six towers
- 8 residents hired & 200+ trained



## Arts & Culture

- Local talent
- Community pride



## Carpentry Classes

- Skill building
- Carpentry training for at-risk youth





# Business Programs and Support



# **Improve your Bottom Line with Vaughan Business Programs**

# City of Vaughan, Small Business & Entrepreneurship

## City of Vaughan, Small Business and Entrepreneurship

About Us  
Our Services

## Grant Programs

Starter Company Plus  
Digital Boost  
*Activate!Vaughan*





The left side of the slide features a dark blue background with several large, overlapping geometric shapes in shades of teal and light blue. These shapes are arranged in a way that creates a sense of depth and movement, with some shapes appearing to be layered on top of others.

# **Save the Date!**

---

**19<sup>th</sup> Annual Vaughan Business  
Expo**

**February 23, 2021**

Register now to be the first to receive details on this virtual event!

**[VaughanBusiness.ca/Expo](https://VaughanBusiness.ca/Expo)**

# City of Vaughan

## Small Business Entrepreneurship

### Mission

Our mission is to help small- and medium-sized businesses start and grow

### Services

Concierge Services

Matchmaking

Business Advisory

Training and Workshops

Entrepreneurship Programs



# Entrepreneurship Programs

## Digital Boost

### Purpose

Helping brick-and-mortar businesses weather the COVID-19 crisis by leveraging digital tools

### Benefits

Free workshops and training

Business advisory services

Mentorship opportunities

Apply for up to \$5,000 in grant funding

Registration currently closed



SHOP



# Entrepreneurship Programs

## Starter Company Plus

### Purpose

Helping entrepreneurs start or expand their businesses

### Benefits

Free workshops and training

Business advisory services

Mentorship opportunities

Apply for up to \$5,000 in grant funding

Next general cohort  
in 2021



# Entrepreneurship Programs

## Activate!Vaughan Innovation Program

### Purpose

Market-driven  
Problem-based challenges  
Connects startups and industry leaders

### Startup benefits

Co-creation  
Pilot opportunities  
Business advisory services  
Accelerator programming  
Mentorship  
Funding opportunities

### Upcoming Challenges

Fall 2020: Health Innovation  
Spring 2021: Smart City





# Connect with Vaughan

## Connect with us

---

Lindsay Davidson  
Small Business Advisor  
[Lindsay.davidson@vaughan.ca](mailto:Lindsay.davidson@vaughan.ca)

Julie Flesch  
Entrepreneurship Coordinator  
[Julie.flesch@vaughan.ca](mailto:Julie.flesch@vaughan.ca)

[VaughanBusiness.ca](https://vaughanbusiness.ca)

# Available Energy Programs

Delivery Organization	Description	Large (500+ employees)	SME
 <b>Natural Resources Canada</b>	Energy monitoring	✓	✓
	ISO 50001	✓	✓
	Energy studies	✓	✓
 <b>SAVE ENERGY ON</b>	Capital retrofits (electricity)	✓	✓
	LED swap-in		✓
	Energy Manager salary funding		✓
 <b>ENBRIDGE</b>	Capital retrofits (natural gas)	✓	✓
	Energy monitoring	✓	
	Savings performance incentive	✓	
 <b>ieso</b> Connecting Today. Powering Tomorrow.	Peak shaving (Global Adjustment)	✓	
	Peak shaving (auction)	✓	✓
	Energy efficiency (auction)	✓	✓

# Available Water Programs



- ICI Capacity Buy Back
- Water Efficiency Equipment Replacement Incentive
- Water Smart Irrigation Professional Program
- Source Water Protection Incentive Program
- Incentives for Sustainable Residential Development





# Updates and Opportunities in Waste Management

- Proposed changes to Blue Bin Program
  - Make producers responsible for collecting and managing blue box materials, which comprises of designated products and packaging
  - Expand the scope of blue box materials collected and managed
  - Comments open until Dec 2
  - <https://ero.ontario.ca/notice/019-2579>



# Updates and Opportunities in Waste Management

- Canada's Single Use Plastics Ban (by end of 2021):
  - Plastic checkout bags
  - Stir sticks
  - Six-pack rings
  - Cutlery
  - Straws
  - Some Food service ware
  - For more information visit:  
<https://partnersinprojectgreen.com/news/canadas-single-use-plastics-ban/>



# Partners in Project Green

Available Programs to Green Your Bottom Line

# About Partners in Project Green

## Vision:

The vision of Partners in Project Green is to grow the Pearson Eco-Business Zone model as an internationally recognized community of leaders advancing environmental action and economic prosperity across the Greater Toronto Area.

## Founding Ambassadors:



# Green Economy Webinar Series

Partners in Project Green's free monthly webinar series highlights important issues and ideas in sustainable business.

## Free webinars on demand:

- Getting to Zero Plastic Waste
- The Business Case for Natural Infrastructure
- Sustainability Reporting: Escaping Acronyms and Rear-View Mirror Reports
- Innovative Business Solutions to Combat Food Waste and Insecurity
- Building Resiliency into your Sustainability Strategy: Lessons from COVID-19
- Microplastics Diversion: Sharing Two Pilot Case Study Successes
- Energy Monitoring Technologies and Resulting Cost Savings

Visit [partnersinprojectgreen.com/resource](https://partnersinprojectgreen.com/resource) to access recorded webinars

Sign up for our monthly newsletter at  
[partnersinprojectgreen.com/newsletters](https://partnersinprojectgreen.com/newsletters)  
to stay up to date on our upcoming webinars and programs!

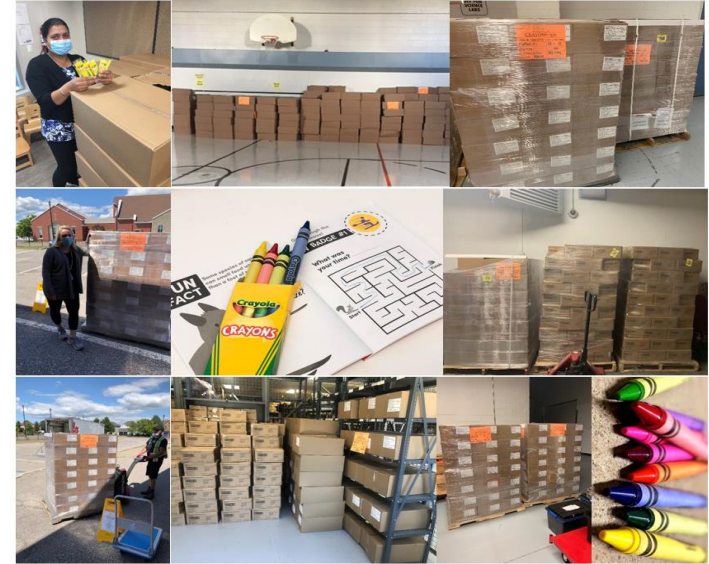
# Material Exchange

Facilitating the exchange of material between businesses and non-profit organizations to divert waste from landfill, support local communities, and move towards a circular economy.

## Crayons & Activity Books

A large Canadian company found themselves with an over abundance of crayons & activity books. Instead of sending them to landfill, they called us. Within a week, PPG found homes for 36 skids of crayons and activity books at local schools & non-profits – that's almost 18 tonnes.

**If you have items that need new homes, we can help.**



Contact [catherine.leighton@trca.ca](mailto:catherine.leighton@trca.ca) for details



# Natural Infrastructure and Climate Resiliency



Above: Calstone Inc. site, before and after project construction



This program helps property managers, commercial developers, industrial manufacturers, institutional facilities, and business owners understand their climate risks and identify opportunities to mitigate those risks and provides support to take action and become more resilient.

For more information, visit:

<https://partnersinprojectgreen.com/natural-infrastructure/>

Contact **Eric.Meliton@trca.ca** for details

# Energy Consortia

The Energy Leaders Consortium and SME Consortium bring industrial energy professionals together in facilitated sessions to:

- Learn from each other's energy projects
- Share resources and expertise
- Strategize solutions to shared challenges

## Collective Group Savings



133.6 million  
kWh electricity



11.4 million  
m<sup>3</sup> natural gas



31,000  
tonnes eCO<sub>2</sub>





\$36.3 million











































































































































Contact [nathaniel.magder@trca.ca](mailto:nathaniel.magder@trca.ca)

# ELC Member Projects

 Working on it this year

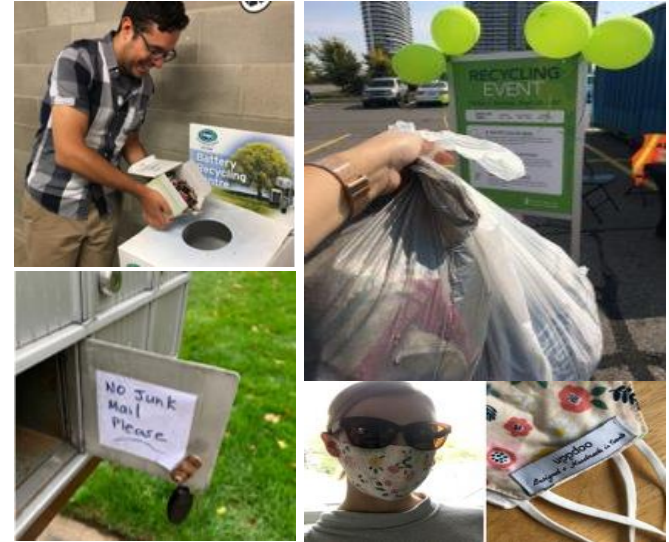
 Completed

													
Battery Storage													
Biogas													
Boilers													
Building Automation Systems (BAS)													
Cogeneration													
Compressed Air													
Continuous Commissioning													
Corporate Energy/Sustainability Strategy													
Energy Monitoring													
Employee Engagement													
Energy Star Certification													
Electric Vehicles (EVs)													
Forklifts													
Heat Recovery													
Hydrogen													
Insulation Upgrades													
ISO 50001 Certification													
Lighting													
Low-GWP Refrigerants													
Peak Curtailment													
Power Quality													
Process Efficiency													
Pumps and Fans													
Refrigeration Plant													
Renewable Energy Procurement / Carbon Credits													
Solar PV (On-Site)													
Solar Thermal													
Sustainable New Construction													
Waste Management													
Water Efficiency													

# Employee Engagement

## People Power Challenge

- Operationalize sustainability by empowering people
- Campaigns linked to United Nations Sustainable Development Goals
- Fun activities for home and workplace
- Webinars, tools, and resources
- Action oriented events
- 5,000 + employees reached annually



Contact [Jennifer.taves@trca.ca](mailto:Jennifer.taves@trca.ca) for details

# **Poll – Next Steps on Sustainability**

# Q and A

Please put your questions in the chat!

[www.trca.ca](http://www.trca.ca)



# Contacts

## **Jeff Robertson**

Senior Manager, Partners in Project Green| Education and Training

E: [jeff.robertson@trca.ca](mailto:jeff.robertson@trca.ca)

## **Patricia Lewis**

Project Manager, SNAP Projects, Sustainable Neighbourhoods |  
Education and Training

E: [patricia.lewis@trca.ca](mailto:patricia.lewis@trca.ca)

## **Lindsay Davidson**

Environmental Planner | Public Works and Engineering

E: [lindsay.davidson@vaughan.ca](mailto:lindsay.davidson@vaughan.ca)