

Sustainable Neighbourhood Action Program

BRAMALEA SNAP NEIGHBOURHOOD



Bramalea Sustainable Neighbourhood Action Plan

"Working together for a green, healthy and welcoming Bramalea"

November 2020

In collaboration with:



ACKNOWLEDGEMENTS

The Bramalea SNAP is a comprehensive action plan for neighbourhood revitalization that integrates local community interests and sustainability objectives under the overarching theme of working together for a green, healthy and welcoming Bramalea. This Bramalea SNAP supports a future where the neighbourhood's public and private spaces integrate nature, community and the arts; healthy, local food is grown and shared; streets are lively and safe for people; and local leadership supports collective action for shared goals, fostering courtesy and respect for people and environment.

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Toronto and Region Conservation Authority (TRCA) has authored this report on behalf of project partners, the City of Brampton, the Region of Peel and former Healthy Communities Initiative. Action Plan recommendations were identified through a co-creation process involving residents and stakeholders, City, Region, and TRCA staff. **A special thank you to municipal Councillors, local stakeholders, and numerous staff groups that were extensively involved in collaborative engagement activities have helped co-design the recommended initiatives.**

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INTRODUCTION

The Bramalea SNAP is a comprehensive action plan for neighbourhood revitalization that integrates local community interests and sustainability objectives under the overarching theme of working together for a green, healthy and welcoming Bramalea. This Bramalea SNAP supports a future where the neighbourhood's public and private spaces integrate nature, community and the arts; healthy, local food is grown and shared; streets are lively and safe for people; and local leadership supports collective action for shared goals, fostering courtesy and respect for people and environment.

The development of the Bramalea SNAP Action Plan has been led by Toronto and Region Conservation Authority (TRCA), in collaboration with the City of Brampton, the Region of Peel, and the former Healthy Communities Initiative. As one of eight SNAP projects in the Toronto Region, the Bramalea SNAP seeks to demonstrate the implementation of number of shared municipal and agency objectives at the neighbourhood scale. These include: Brampton Grow Green Environmental Master Plan, Community Energy and Emissions Reduction Plan, Eco Parks Strategy and 2040 Vision; TRCA's Etobicoke and Mimico Creek Watershed Plans; and the Region of Peel's Public Health, Climate Change and Water Efficiency strategies.

What is SNAP?

The Sustainable Neighbourhood Action Program (SNAP) of TRCA is a collaborative, neighbourhood-based approach for advancing urban renewal and climate action in older urban areas. SNAPs help municipalities and other community collaborators improve efficiencies, draw strong local support and build innovative partnerships for the implementation of a broad range of initiatives in the public and private realms. More information is available at: trca.ca/conservation/sustainable-neighbourhoods.

THE BRAMALEA NEIGHBOURHOOD

Located in the City of Brampton, Region of Peel, Bramalea is a unique community with its own sense of identity. The Bramalea SNAP Action Plan corresponds with the K, E and F sections of the broader Bramalea area, which is bounded by Queen Street to the north, Clark Avenue and Balmoral Drive to the south, Central Park and Bramalea Road to the west, and Torbram Road to the east. This area is home to 17,000 people with a highly diverse demographic, a range of income levels, and a mix of recent immigrants and longtime residents.



The neighbourhood includes a diversity of housing forms built between 1960 to 1980, ranging from single family dwellings to high-rise towers (images courtesy of Toronto and Region Conservation Authority)

Figure 1: Bramalea SNAP Neighbourhood, City of Brampton, Region of Peel



The neighbourhood is comprised of distinctive sections. The western side includes the Knightsbridge area (K section), which is comprised of twelve high-density multi-unit residential buildings, including two owned by Peel Living, as well as a commercial strip plaza and Knightsbridge Park. It is adjacent to Bramalea City Centre, Region of Peel headquarters, a major transit hub, and Chinguacousy Park. This area drains to Spring Creek and is part of the Etobicoke Creek Watershed. The eastern side of the neighbourhood (E and F sections) is comprised mostly of low-density single dwellings and semi-detached homes, with two multi-unit residential buildings, five elementary schools, half a dozen places of worship, and two commercial plazas. It also contains extensive parkland, which form the headwaters of the main branch of Mimico Creek, within the Mimico Creek Watershed. These include Fallingdale, Earningcliffe, Eastbourne and Edgebrooke Parks, as well as several smaller parkettes. See Table 1 for the Neighbourhood Profile.

Table 1: Neighbourhood Profile (Source: Statistics Canada 2016 Census, Environics 2019)

Size	229 ha
Land Use	Low/Medium Density Residential – 40% (92.2 Ha) Recreational – 24% (54.3 Ha) <i>Parks – 15% (33 ha)</i> Institutional – 6% (13.3 Ha) Commercial – 5% (12.4 Ha) Roads – 6% (13.2 Ha)
Population	16,991 total - 9,535 in E/F section, 7,456 in K section
Diversity	68% visible minorities in E/F section, 90% in K section 62% immigrants in E/F section, 50% in K section Most common visible minorities - South Asian 38.5%, Black 18.1%, Filipino 4.6%
Housing	5,783 total households - 3,044 in E/F section, 2,739 in K section Own 59% (3,428) and Rent 41% (2,355) Houses 39% (2,253) Single-detached house 13% (754) Semi-Detached house 11% (617) Row House 15% (882) Apartments 61% (3,530) High-rise 53% (3,115) Low-rise 5% (293) Detached Duplex 2% (122)
Median Age	50-52 years
Median Income	\$90,746 in E/F section, \$58,150 in K section
Employment Rate	60.6% in E/F section, 54% in K section Top 3 occupations: Sales & Service, Trades & Transport, Business & Finance
Transportation	% of residents who travel to work Car (as driver 4,569 or 66%) Car (as passenger 502 or 7%) Public Transit (1,553 or 22%) Walk (220 or 3%) Bicycle (40 or 0.58%)

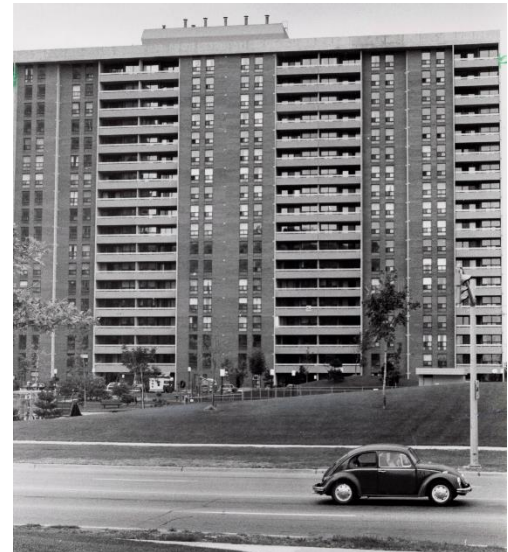


Bramalea has a diversity of land uses including an extensive parkland system and commercial retail plazas (images courtesy of Toronto and Region Conservation Authority)

Bramalea's Unique History

Bramalea's unique identity stems from its development history. Planned in the post war period, Bramalea is known as Canada's first "satellite city", developed by one of the country's largest real estate developers of the time, *Bramalea Limited* and sold under the Province's former Home Ownership Made Easy (H.O.M.E) program. Separate from the Town of Brampton, the Master Plan for the 'New Town' of Bramalea envisioned a complete community – "a balanced and integrated urban community... provid[ing] for the well-being and prosperity of a population in access of 50,000 people" (Bramalea Master Plan 1958). The master plan included distinct neighbourhoods, each with their own school and parkland with trail system for safe transportation, a commercial "downtown" for shopping and essential services, and a surrounding ring of employment lands for residents of the community.

Another unique feature that forms a core part of Bramalea's identity is alphabetic theming of each neighbourhood or "section". As each section was developed between 1960 and 1980, it was given a letter which was used in streets, parks and schools (e.g. A section, B section, C section). Children within these boundaries would attend a local school and compete against each other in recreational activities.



Thousands of people moved to the 'new town' of Bramalea during the 1960s and 1970s, established roots and a strong connection to their section (Images from Toronto Star Photograph Archive, Courtesy of Toronto Public Library)

NEIGHBOURHOODS SELECTION AND KEY DRIVERS

The Bramalea neighbourhood was selected based on a screening process that identified the alignment of multiple urban renewal and climate action priorities of the City, Region, and TRCA. A summary of these key priorities, as well as motivating community interests, formed the basis of the SNAP Action Plan and include:

- **Neighbourhood well-being** – identified as Low and Medium-Low on the Region of Peel Neighbourhood Information Tool Well-being Index, there is opportunity to integrate capacity building and socio-economic objectives into sustainability projects and achieve co-benefits in the community.

- **Climate vulnerability** – identified as High on the Peel Heat Vulnerability Index as well having a high Natural System Vulnerability, there is opportunity to address heat stress and other vulnerabilities through integrated green infrastructure, tree planting, restoration, and other adaptation measures.
- **Energy intensity** – identified as among the highest residential electricity and natural gas intensity consumption areas in the City’s Community Energy and Emissions Reduction Plan, there is opportunity to pilot targeted strategies to reduce Greenhouse Gas (GHG) emissions and support the City’s new energy efficiency, GHG reduction, and building retrofit targets.
- **Chronic disease prevention** – identified as an area with high Diabetes prevalence, where one in five adults have Diabetes (Ontario Diabetes Database, 2015), there is opportunity for upstream disease prevention through built environment retrofits for active living and healthy lifestyle.
- **Eco Park and channel naturalization** – with TRCA’s channel naturalization project and several City playground renewal projects planned, there is opportunity to develop integrated Eco Space designs in parks supported by nearby private lands. This area is classified as a high priority catchment within TRCA’s Integrated Restoration Prioritization tool, indicating high impairment across aquatic and terrestrial habitats. Work in this area is important to improve the quality and quantity of natural cover and improve immediate aquatic conditions and downstream conditions.
- **Welcoming, green public spaces** – there is opportunity to renew public spaces to serve multiple uses for all life stages, and to animate them with nature, beauty, public art, and music.
- **Healthy, local food** – there is significant interest in supporting food security and healthy eating through urban agriculture in all forms and helping nourish and care for vulnerable community members.
- **Safe streets and pathways** – to support active transportation and safety for all, there is a strong interest in improved pedestrian experience, cycling opportunities, and reduced traffic impacts and safety concerns
- **Local leadership and collaboration** – there are interests in local decision making, collective action for shared goals, and fostering courtesy and respect for people and environment.

Bramalea is also located within TRCA’s Urban Activity Zone, an area for targeted environmental education based on socio-economic factors. There are opportunities for improved stormwater management to support flood mitigation measures in Spring Creek and improved headwater conditions in Mimico Creek. There are also potential collaboration opportunities with the adjacent Bramalea City Centre, identified in the City’s Vision 2040 for future long-term redevelopment.

Spotlight: Health and the Built Environment

With chronic disease prevention and improved neighbourhood well-being as key interests in this neighbourhood, the Action Plan addresses health, social, and environmental priorities through integrated built environment projects. The built environment can have a significant impact on human health by either supporting or discouraging healthy behaviours and social connection between residents in the community. Peel Public Health's strategic priorities of enabling active living and healthy eating, promoting mental well-being, and reducing health-related impacts of climate change can all be supported through creation of a healthy built environment.

"Citizens are largely working against an environment where sedentary behavior is the default."

-- Dr. Lawrence Loh, Region of Peel Medical Officer of Health

Increasing safety and connectivity in the built form can increase walkability, encourage other forms of active transportation, and help lower greenhouse gas emissions. Daily physical activity from active transportation is a powerful protective factor that can reduce the onset of chronic diseases like type 2 diabetes. Integrating public transit stops, wide sidewalks with street furniture, trees for shade, as well as traffic calming measures to reduce vehicle speeds through protected intersections, crossings, and roundabouts can make walking and cycling a safe, convenient, and attractive option. An attractive built form encourages people to be outdoors and supports social interactions and connectedness. Together, transit-oriented and pedestrian-friendly neighbourhoods improve community safety, prevent injuries, and support residents to age in place.

Growing local food through community and balcony gardens can provide physical, social, and mental health benefits and increases fruit and vegetables consumption. Improved access to nature also supports physical activity opportunities and mental well-being.

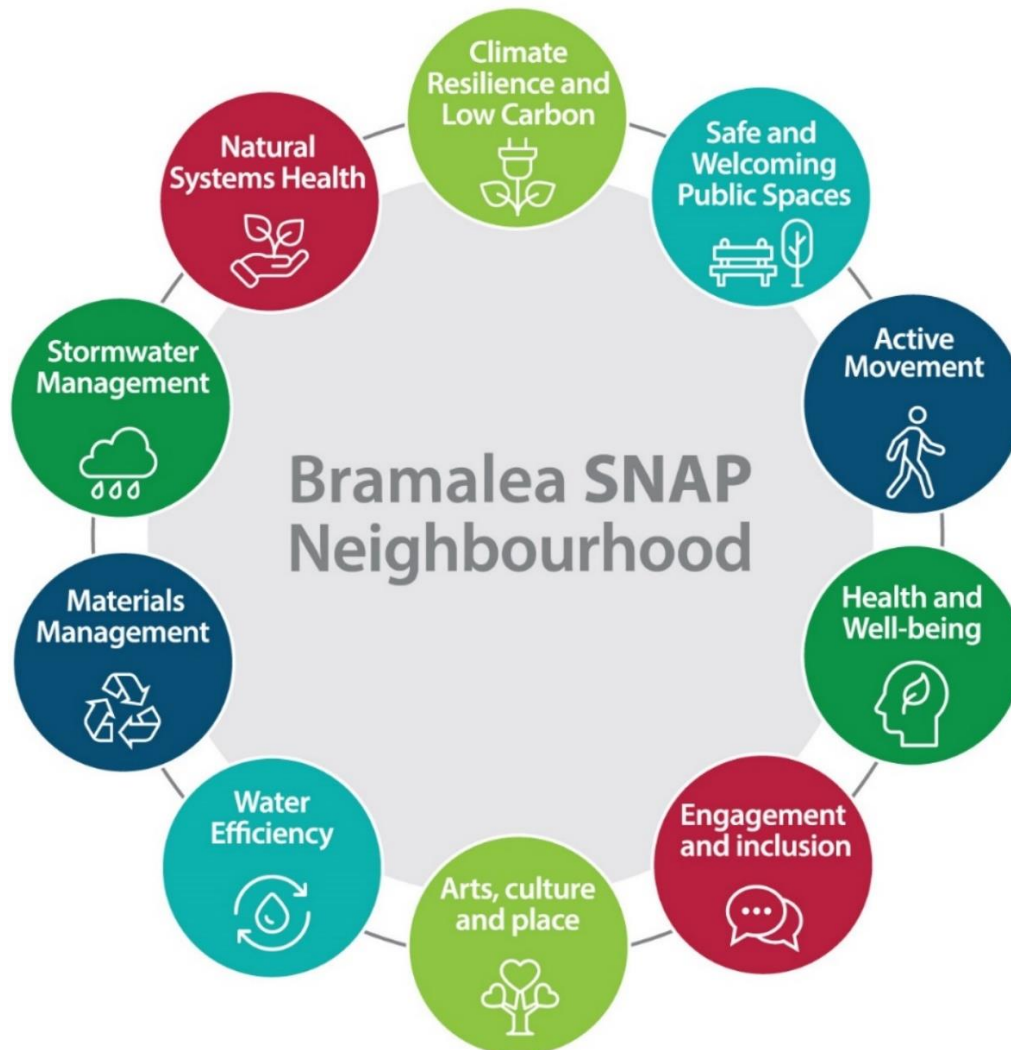


An example of residents of all ages participating in physical activity and enjoying time outdoors

SHARED ACTION PLAN OBJECTIVES

A set of ten shared action plan objectives have been identified based on local sustainability priorities and community interests, and have guided the development of the Bramalea SNAP Action Plan. Each objective adds its own unique lens, and together, reflect a shared set of comprehensive driving objectives. Detailed objective descriptions are included in Appendix 1.

Figure 2: Bramalea SNAP Action Plan Objectives

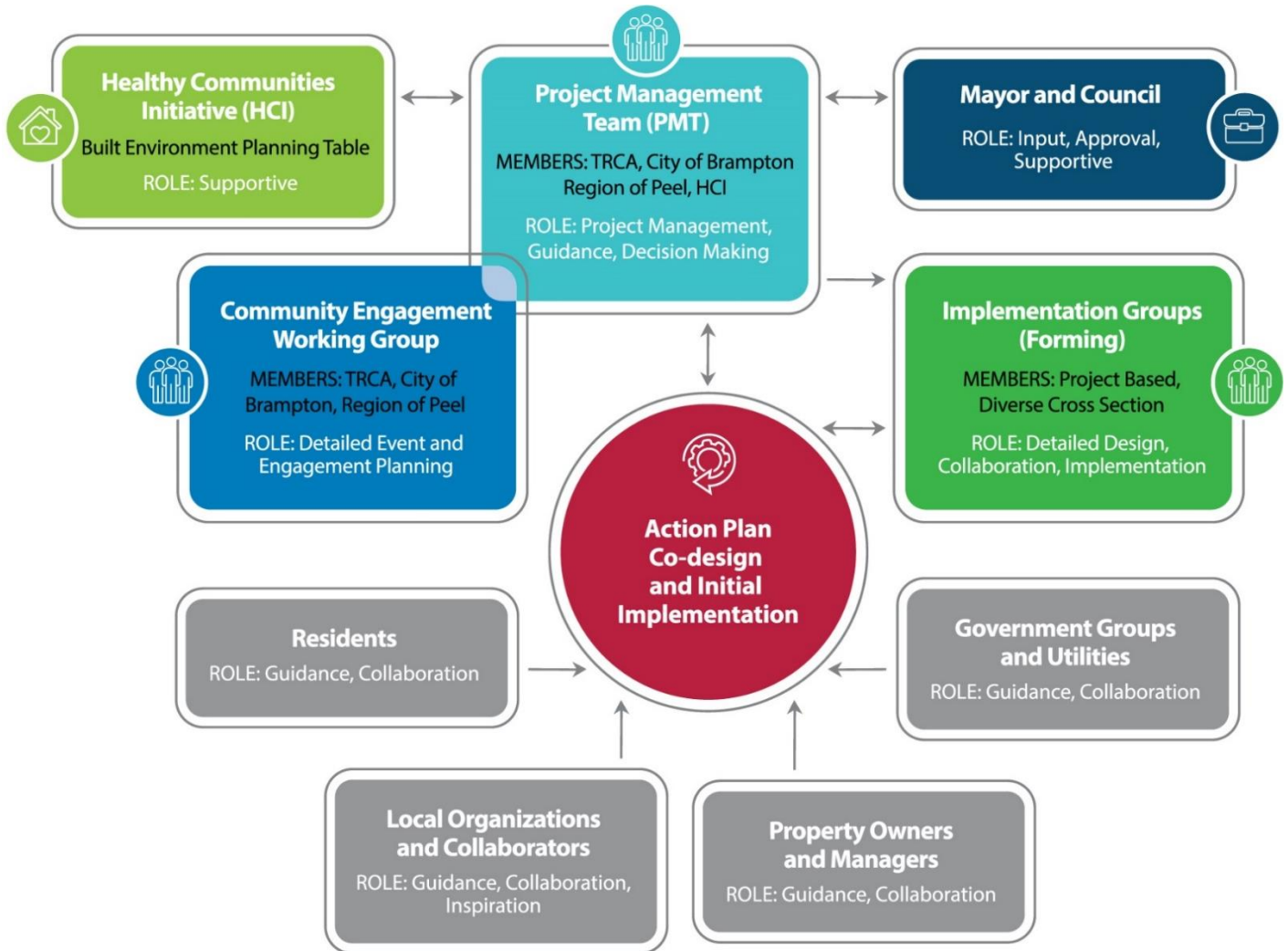


THE SNAP GOVERNANCE MODEL

The Bramalea SNAP was initiated and developed using a highly collaborative approach to foster co-design and co-ownership of the Action Plan among key stakeholders and the community. Driven by a cross-section of priorities, the SNAP governance model allows for the identification, exploration, and implementation of shared solutions.

The project was guided by a Project Management Team comprised of staff from TRCA, City of Brampton, Region of Peel, supporting cross-departmental coordination, as well engagement of diverse local stakeholders in co-design and initial implementation. Figure 3 illustrates the project management and governance structure.

Figure 3 – Project Management and Governance Structure



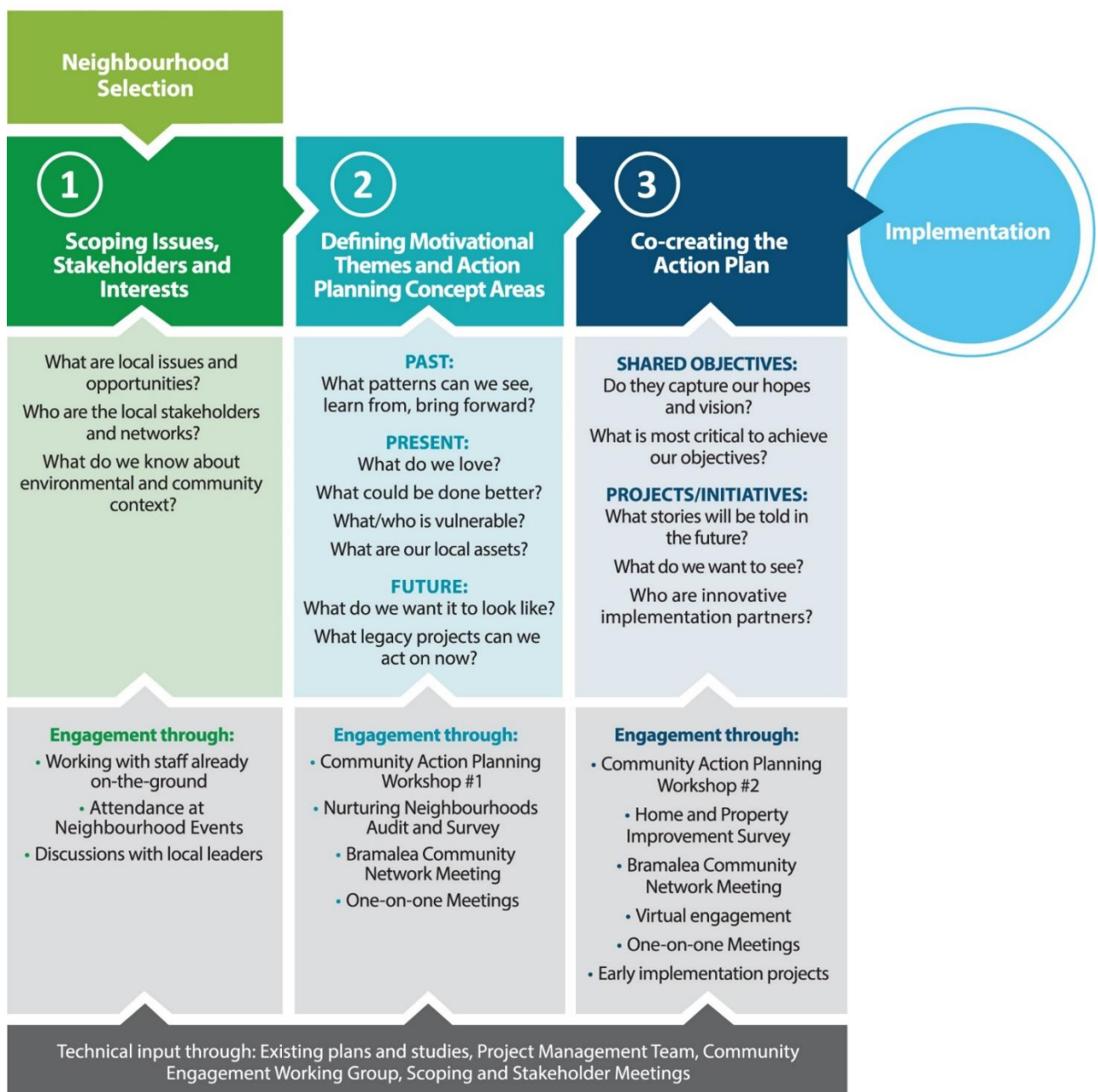
Spotlight on Local Leaders: The Bramalea Community Network

The Bramalea SNAP has been developed in close collaboration with the Bramalea Community Network (BCN), who have offered guidance on emerging directions, and have helped promote community events and local input to the Plan. The BCN, formally called Knightsbridge Network, was created in 2008 by a group of concerned community partners with guidance from the Region of Peel’s community partnerships division. The BCN consists of parents, service organizations, municipalities, and schools. The purpose of the Network is to collectively identify needs, educate about available services, support safety, and strengthen sustainable community well-being. Since 2017, TRCA has been part of the BCN by providing support and program opportunities to those who serve vulnerable groups. Working closely with the BCN has strengthened TRCA strong local partnership, and sense of accountability and trust from local community groups.

THE ACTION PLAN CO-DESIGN PROCESS

The planning process put an emphasis on co-creation of an Action Plan with shared outcomes, including measurable environmental improvements as well as community health and well-being benefits. To support this, a streamlined approach was used, putting a focus on getting to implementation faster and integrating critical factors for success from lessons learned through previous SNAPs. These factors included: building excitement and identifying motivating themes to guide the plan; incorporating meaningful engagement of local neighbourhood, government and agency staff and implementation partners; follow through on quick-start projects; achievement of adequate baseline understanding; and delivering a conceptual level Action Plan. The process was comprised of three main phases illustrated in Figure 4.

Figure 4 – Action Plan Co-Design Process



Meaningful community and stakeholder engagement have been central to the action planning co-design process. The engagement undertaken aimed to understand local top of mind issues and motivating interests, identify shared plan objectives and projects, invite involvement in early on-the-ground projects, and build longer term relationships and capacity building to help support the action plan implementation. A selection of the collaborative and creative activities used during engagement are highlighted below. Workshop summaries and detailed engagement results are available under separate cover.

Throughout the action planning process, community members expressed strong interest in involving and honoring indigenous groups in all project plans, particularly for natural heritage and parks initiatives (e.g. choice of plants that could be used for naturalization efforts). Indigenous perspectives and approaches have been and will continue to be sought and integrated into plan and project designs.



Nurturing Neighbourhoods and Bramalea SNAP walking audit and mapping exercise at one of the community action planning workshops (Images courtesy of Toronto and Region Conservation Authority)

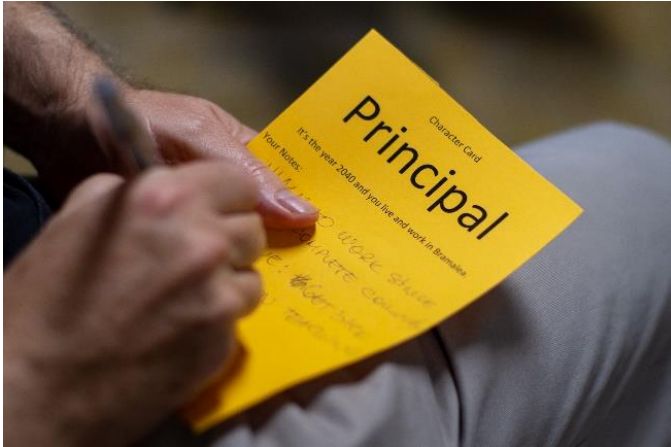
Co-Design Process – Highlights

Two large multi-stakeholder workshops designed to bring all stakeholders together to co-design a shared plan were critical parts of the process. The first workshop focused on exploring the past, present, and future of Bramalea, and identifying motivating themes and integrated project ideas. The second workshop confirmed emerging directions, offered inspirational speakers, and supported co-design of principles, features, and partnerships for several initiatives. Highlights of the creative co-design are below:

- **Past, Present, Future approach** – Designed to encourage shared reflection and future-oriented visioning, the workshops facilitated creative discussions to invite perspectives and ideas on neighbourhood past, present, and future to help guide action planning.
- **2040 Cover Story** – The SNAP team piloted a new activity to inspire participants to imagine what the future of Bramalea could look like in the year 2040 through top news stories and news makers, and to use character role playing to consider different viewpoints. Outcomes helped reveal local values, hopes and dreams for the future, as well as perspectives that might not have otherwise been considered.
- **Rapid Co-design discussions** – A broad cross section of the community and government staff were engaged in future-oriented discussions to support co-designed initiatives. Design staff assisted in sketching ideas and programs in more detail and identified potential implementation partners to help bring them to life.

“Every step of the plan was built with sustainability in mind -- not only environmental sustainability, although that is a big part of it -- but sustainability in terms of engaging the residents of this and surrounding areas in such a way that commitment to the values and goals of this program will endure through time.”

-- Local resident



Role playing exercise and parks co-design activity at one of the community action planning workshops
(Images courtesy of Toronto and Region Conservation Authority)

Nurturing Neighbourhoods Program

The City of Brampton’s Nurturing Neighbourhoods Program is an innovative initiative launched in 2019 as part of the implementation of the Brampton 2040 Vision. It aims to connect residents with available resources, improve civic engagement, and empower residents to play an active role in enhancing their neighbourhood. Each Complete Neighbourhood Audit undertaken as part of this program includes an in-person or virtual neighbourhood walk, a survey, and follow-up mapping activity. Given the complementary nature of this program and the SNAP, the teams collaborated to leverage a Nurturing Neighbourhoods audit planned for Bramalea. Working together as part of the first multi-stakeholder workshop, the team delivered three concurrent neighbourhood walks, reflective mapping activity, and facilitated community discussions.

Table 2 – Who has been involved

City of Brampton	Bramalea Community Health Centre
Region of Peel	Boys and Girls Club of Peel
Toronto and Region Conservation Authority	YMCA
Central West Local Health Integration Network (LHIN)	Peel Police
Councillors and Mayor	All People’s Church
The Indigenous Network	Bramalea Baptist Church
Residents	Brampton Library
Bramalea Community Network	Association for Canadian Educational Resources (ACER)
Multi-Unit residential building owners and managers	Building up our Neighbourhood
Schools	Algoma University
Community Health Nurses	Peel Art Gallery Museum & Archives (PAMA)
Ecosource	Chinguacousy Garden Club and Horticultural Society
SummerLunch+	

THE BRAMALEA SNAP ACTION PLAN

The Bramalea SNAP is a comprehensive action plan for neighbourhood revitalization that integrates local community interests and sustainability objectives under the overarching theme of working together for a green, healthy and welcoming Bramalea. This Bramalea SNAP supports a future where the neighbourhood's public and private spaces integrate nature, community and the arts; healthy, local food is grown and shared; streets are lively and safe for active people; and local leadership supports collective action for shared goals, fostering courtesy and respect for people and environment.

As illustrated in Figure 5 on the following page, the Action Plan is made up of six themes, each with their own integrated initiatives:

1. System of Eco Spaces and Green Infrastructure
 - Fallingdale, Earnscliffe, Eastbourne, Edgebrooke and Knightsbridge Parks as Eco Spaces
2. Safe and Active Transportation Network
 - Multi-objective Road Diets and Pedestrian Realm Improvements
3. Healthy Local Food System
4. Home and Building Efficiency and Resilience
 - Tower Resilience and Efficiency Initiative
 - Home and Property Resilience and Efficiency Initiative
5. Institutional and Commercial Collaboration and Greening
6. Community Resilience

This report represents a high-level summary of the recommended initiatives, and outlines the context, locally inspired objectives and recommended actions identified during the action planning process. The proposed projects will be scoped at a more detailed implementation planning level and will involve further engagement with the community and local implementation groups. A summary of all recommended actions across the themes is included in Appendix 2.

Supporting COVID-19 Recovery through a greener, healthier neighbourhood

The global COVID-19 pandemic has had far reaching impacts. The need to physically distance and even isolate at times underscores the value of local green space in helping to provide physical and mental relief and the importance of neighbourhood connections. The SNAP Action Plan supports neighbourhood health and resilience, and together with City, Region, and TRCA, seeks to support COVID-19 recovery through:

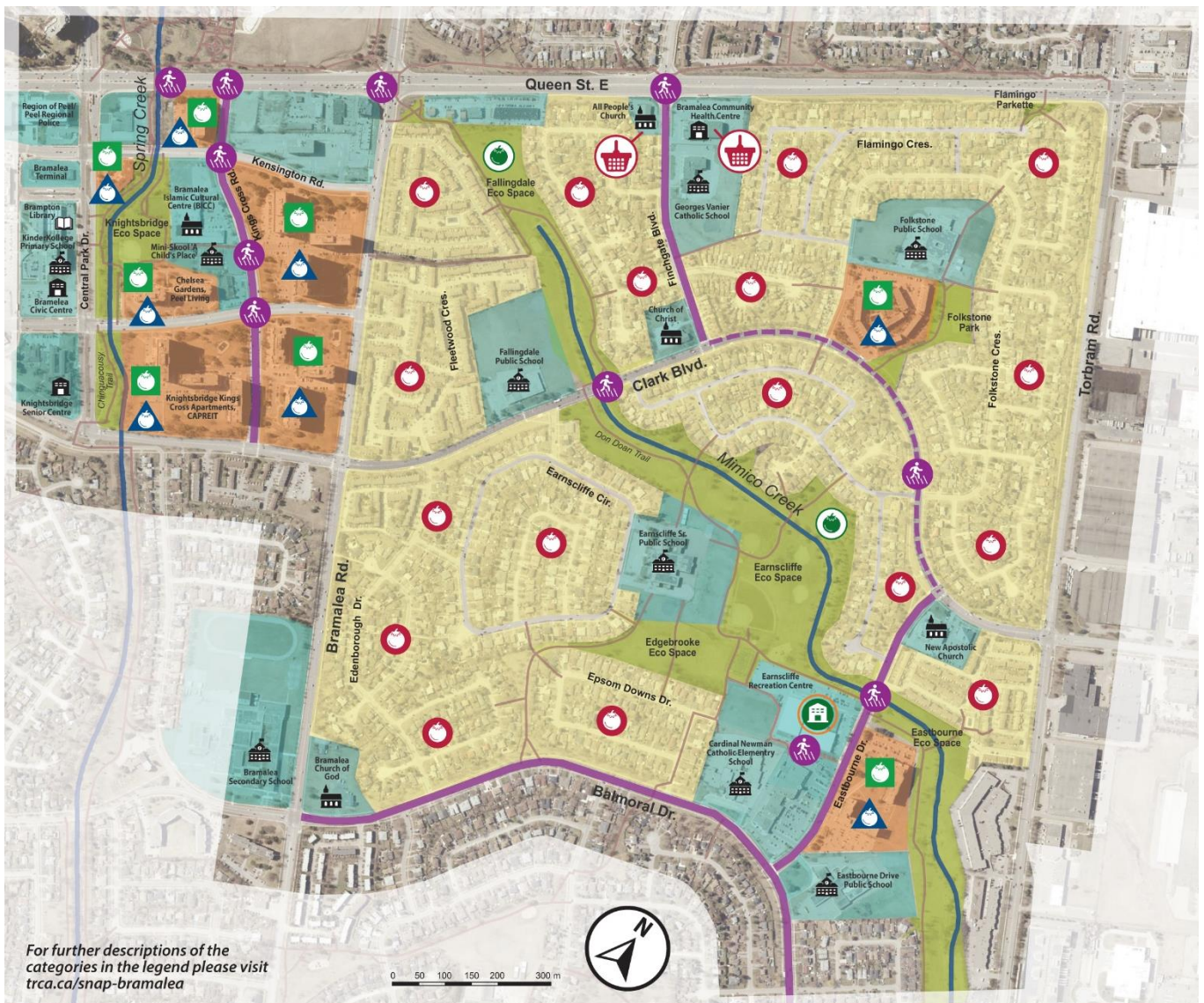
- Supporting physical and mental health through increased opportunity for active lifestyle (more active transportation infrastructure, community gardens) and access to fresh produce (backyard/balcony gardens, sharing programs)
- Increasing local high-quality greenspace (Eco Spaces, greener streets) and opportunities for more nature at home (Residential and Tower Resilience programs)
- Providing alternative outdoor transportation options through a safe and active transportation Network (better walking and cycling trails, safer crossings)
- Increasing opportunities for improved neighbourhood connections and relationships, check-ins, extra help

A CLOSER LOOK AT THE ACTION PLAN

Figure 5: Action Plan Concept Map

LEGEND*

<ul style="list-style-type: none"> System of Ecoparks & Green Infrastructure Home/Property Resilience & Efficiency Tower Resilience & Efficiency Institutional, Commercial Collaboration & Greening E Deep Energy Retrofit 	<p>Safe & Active Transportation Network</p> <ul style="list-style-type: none"> New Multi-purpose Road Diet New Multi-Purpose Trail P New/Enhanced Pedestrian Crossing/Connectivity 	<p>Healthy Local Food System</p> <ul style="list-style-type: none"> L Local Food Distribution Hub Balcony Garden Backyard Garden G Community Garden on Private Land G Community Garden on Public Land 	<ul style="list-style-type: none"> Water Course Existing Trail L Library W Places of Worship S School C Community Centre
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In collaboration with The City of Brampton, Region of Peel and the Healthy Communities Initiative (HCI)

* Exact locations may vary and are subject to further analysis and refinement during the implementation process.

1.0 SYSTEM OF ECO SPACES AND GREEN INFRASTRUCTURE

Applying [Brampton Eco Park](#) principles and philosophy, the action plan recommends a series of public space revitalization projects, re-shaping older parks into Eco Spaces. Through such park retrofits and the implementation of other Action Plan projects, a healthy green infrastructure system will extend from within parks into backyards, tower properties, and streets.

Fallingdale, Earnscliffe, Eastbourne and Edgebrooke Parks as Eco Spaces

Residents emphasized their passion and personal connection to local parks throughout the action planning process - these green spaces are local treasures and significant community assets. The re-imagining of Fallingdale, Earnscliffe, Eastbourne and Edgebrooke Parks through Eco Space design is a key recommendation of the Bramalea SNAP Action Plan. Located in the E and F sections of the neighbourhood, these adjacent parks form an extensive linear open space system over 30 ha in size with Mimico Creek originating at the north end and forming a central spine and connecting feature throughout all the parks.



These adjacent parks form an extensive linear open space system with Mimico Creek as a central feature (Images courtesy of Toronto and Region Conservation Authority)

What are Eco Spaces?

Brampton Eco Park is a network of Eco Spaces, including parks, natural heritage features, and streetscapes. Eco Spaces can be found in natural and urban areas across Brampton, and reflect the needs of the local natural environment and Brampton community. They strengthen the coexistence of people and the environment by: enhancing and maintaining healthy natural systems and processes, integrating opportunities for meaningful social and environmental interactions and experiences, and actively striving to incorporate seven guiding Eco Park principles:

1. Maximize ecological value
2. Make nature visible
3. Integrate with the surrounding community
4. Reflect local identity
5. Provide opportunities for social services
6. Design with nature
7. Support innovation

Source: Brampton Eco Park Strategy (2019)

Developed in the late 1960s early 1970s and consistent with the design approach of the time, these parks have extensive passive grassed areas with a trail network, as well as many amenities, some ready for updating. There are three older playgrounds, new outdoor fitness circuit equipment, six baseball diamonds, three tennis courts, and multi-purpose fields. Earnscliffe Recreation Centre is a central feature, as are several adjacent elementary schools and places of worship. The park system is surrounded by low density residential homes, a commercial plaza, two multi-unit residential buildings, and is bisected by local collector roads Clark Blvd and Eastbourne Dr. The existing Mimico Creek has been channelized with concrete.

Eco Space design for these parks will integrate several City and TRCA projects. Most notably, the restoration of Mimico Creek led by TRCA, which will include removal of the degraded concrete-lined channel and re-naturalization of the creek and floodplain, resulting in improvements to fish and wildlife habitat, water quality and flood conveyance. Other nearby projects the City is exploring include updates to the playgrounds, a potential energy retrofit of Earnscliffe Recreation Centre, and new community gardens in Earnscliffe and Fallingdale. Eco Space design will also include a range of potential park features identified by community members and government staff, from small to large interventions, City-led to community-based, and natural to more active uses.

In addition to the seven guiding Eco Park principles, several locally inspired objectives were identified during community action planning workshops and other local engagement. These complement the Eco Park principles and will also be incorporated into the park design and projects.

Locally Inspired Objectives for Fallingdale, Earnscliffe, Eastbourne and Edgebrooke Parks:

- Create safe, clean and welcoming spaces
- Support thriving natural systems
- Support healthy active living, for all ages, year round
- Be engaging, attractive, and a draw for residents
- Showcase local assets and unique history
- Be climate friendly, resilient, minimize greenhouse gases
- Support community through local employment and skills training, and community-based projects

Community members and government staff identified a range of potential park features, from small to large interventions, City-led to community-based, and natural to more active uses. There is opportunity for more trees, natural meadow habitat, outdoor classrooms and demonstration areas. Walking destinations could include an art walk, labyrinth, amphitheater supported by interpretive signage, improved wayfinding, additional seating and shade, and improved lighting. Gathering areas could include community gardens and cooking spaces, weekend event space and picnicking, supported by more waste and recycling receptacles, anti-litter campaigns, and washrooms. The parks could integrate natural playgrounds, adult equipment/outdoor fitness, a skating rink or path, and more multi-use trails.

Recommended Actions:

- 1.1 Develop an Eco Space parks design for the Fallingdale, Earnscliffe, Eastbourne and Edgebrooke Park system, integrating all planned projects and identified features, guided by the Eco Park principles and locally inspired objectives.
- 1.2 Initiate channel and floodplain design for the re-naturalization of the Mimico Creek, a key component of the Eco Space design.



Example of a nature-based public art installation suggested by community members (Image courtesy of City of Brampton)

Knightsbridge Park as Eco Space

The revitalization of Knightsbridge Park through an Eco Space lens is another key recommendation of the Bramalea SNAP Action Plan. Located within the K section, Knightsbridge Park is highly cherished, representing the only public park space in the neighbourhood that can be accessed without crossing major regional roads. This park is 4 ha in size, contains a playground, two tennis courts, a baseball diamond, and trail system that includes portions of the Chinguacousy Trail. The park is linear in shape and centers around the heavily channelized Spring Creek, part of Etobicoke Creek Watershed. High water volumes in the creek and flooding occasionally impact low-lying areas of the neighbourhood, including the trails that follow the creek through underpasses below Kensington Rd and Knightsbridge Rd that bisect the park. Surrounding land uses include high density residential multi-unit buildings and a commercial plaza, and Central Park Blvd, the Knightsbridge Seniors Centre, and the Brampton Library Chinguacousy Branch.



Knightsbridge Park contains a number of sports fields, a playground, the Chinguacousy Trail and Spring Creek
(Images courtesy of Toronto and Region Conservation Authority)

With 7,500 people living in nearby multi-residential buildings and limited neighbourhood park space, Knightsbridge Park is well-used, by many as an alternative to a back yard.

In addition to the seven guiding Eco Park principles, several locally inspired objectives were identified during community action planning workshops and other local engagement. These complement the Eco Park principles and will also be incorporated into future park projects.

Locally Inspired Objectives for Knightsbridge Park:

- Safe, welcoming, clean, source of pride
- Hub for community activities, events
- Better access, physical connectivity
- Supporting education, healthy active living
- Balance of nature and community uses
- Supporting community: hub for residents, community-based projects, local employment and skills training

Eco Space enhancements identified by the community and government staff include small interventions and larger scale projects. Overall, there is a strong interest from the public to have more animated community space, including a multi-use event space or amphitheater for public art, music and celebrations, and a

community garden. To support physical activity for everyone, there were suggestions for an expanded playground potentially with natural elements, adult equipment and outdoor fitness area, and improved pathway connections to Chinguacousy Park in the north and Chelsea Gardens towers in the east. Safety was also a priority, with suggestions for improved lighting and visibility, as well as supportive safety workshops. Other desired amenities range from additional seating and shade, picnic tables, wayfinding, washrooms, to outdoor games, classroom, library and study space. There was strong interest in integrating more trees and gardens supporting biodiversity and habitat, a clean and healthy creek, a greener parking lot, waste and recycling receptacles, and community clean ups. Community members envisioned a modern park with free WiFi and energy efficient lighting.



Example of animated public space with outdoor games suggested by community members

Recommended Actions:

- 1.3 Review and address smaller scale enhancements including improved lighting and visibility, surface replacements, additional seating and shade, waste and recycling receptacles.
- 1.4 Review and improve pathway connections to Chinguacousy Park in the north and Chelsea Gardens towers in the east.
- 1.5 Work with community groups to plant more trees and gardens, host supportive safety workshops, anti-litter campaigns, community clean ups, and community-based projects to create more animated spaces.
- 1.6 Integrate larger scale enhancements into future park renewal plans including playground and fitness stations, wayfinding, green parking lot and washrooms.

2.0 SAFE AND ACTIVE TRANSPORTATION NETWORK

The SNAP Action Plan recommends a series of enhancements to the existing pedestrian and cycling routes, including safe pedestrian crossings and multi-objective road diets improvements in key areas. Safe trails, reduced traffic speeds, and increased pedestrian and cycling safety along major roads and intersections are of significant concern to many community members in Bramalea. Improving the pedestrian and cycling experience may also encourage people to choose active forms of transportation and support better Bramalea Sustainable Neighbourhood Action Plan



Peel Boys and Girls Club camp participants illustrate ideas for Kings Cross Road improvements in Knightsbridge (Image courtesy of Toronto and Region Conservation Authority)

health outcomes. The community also shared many ideas for re-imagining streets as more animated, inviting public spaces.

Multi-objective Road Diets and Pedestrian Realm Improvements

This effort will be primarily led by City of Brampton and Region of Peel as part of their efforts to increase active transportation and community safety, and ongoing road enhancements and connectivity. The City is interested in bringing a “Road Diet” approach to key roads, described further in the box below.

What is a Road Diet?

A road diet usually involves narrowing or eliminating travel lanes to calm traffic and increase the safety of all road users. It could also help discourage through (non-local) traffic on local roads. It’s about reclaiming street space for other roadway users. Examples of what a road diet can include are as follows:

- Widening sidewalks and adding bike lanes
- Reducing the number and width of automobile lanes
- Adding vegetation like street trees or planters
- Making the sidewalk-to-sidewalk distance in crosswalks shorter
- Using bulb-outs/bump-outs or curb extensions
- Painting crosswalks to make them more noticeable
- Creating “parkettes” using former road space

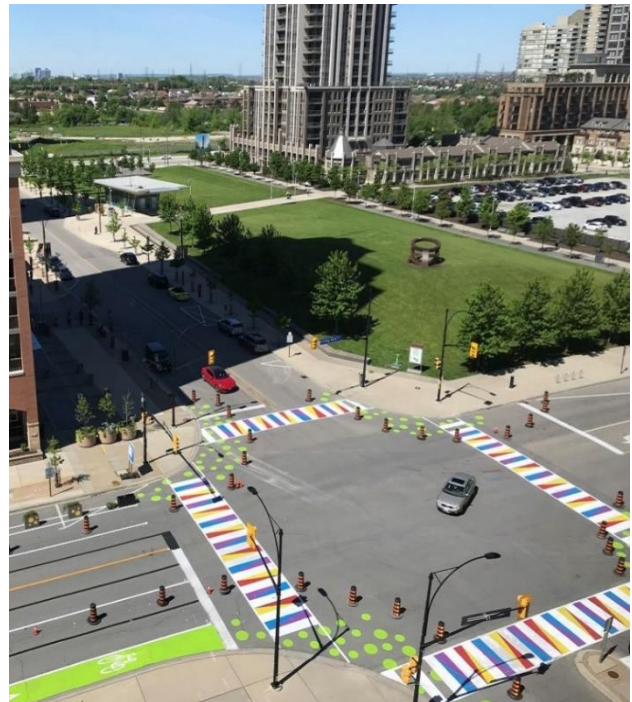
This work will involve further community engagement and be informed by the following locally inspired objectives identified during action planning workshops and extensive local engagement.

Locally Inspired Objectives for Multi-objective Road Diets and Pedestrian Realm Improvements:

- Safety for pedestrians, cyclists
- Traffic calming
- Inclusive, welcoming
- Animation, public art, community
- Supporting active transportation
- Extending Eco Park and green infrastructure into the neighbourhood

Recommended Actions:

- 2.1 Create multi-objective Road Diets on Kings Cross Road, Balmoral Drive, Finchgate Boulevard, Eastbourne Drive.
- 2.2 Create a new recreational trail to connect pedestrians and cyclists along Clark Boulevard from Finchgate Boulevard to Eastbourne Drive.
- 2.3 A series of pedestrian safety improvements at key road crossing locations, and new pedestrian crossings in some locations.



Example of a lively road transformation initiative on Living Arts Drive in Mississauga (Image courtesy of City of Mississauga)

- 2.4 Install traffic calming measures (e.g. improved speed signs, better school drop-off zones).
- 2.5 Make recreational trail improvements in parks (e.g. sign and wayfinding, better connections).
- 2.6 Create innovative and sustainable bus stop improvements (e.g. natural/pollinator garden roofs).

3.0 HEALTHY LOCAL FOOD SYSTEM

Growing healthy, local food through various forms of urban agriculture is a key interest in this community. At the same time, food security and higher than average levels of type 2 diabetes are of concern in some areas of the neighbourhood. The area also includes several local leaders and partners already working together to support food access for vulnerable community members, including local Food Hub's run by the All People's Church, the Bramalea Baptist Church, the Bramalea Community Health Centre Food Program, and Families of Virtue breakfast programming. There is also early planning underway for new community gardens on public and private land.

Locally Inspired Objectives for a Healthy Local Food System:

- A broad range of urban agriculture activities in backyards to towers
- Support access to affordable healthy food for vulnerable community members
- Support community building, social cohesion and local economic development
- Honour the past agricultural and indigenous history
- Increase biodiversity and local greening

"Implementation of backyard and balcony gardens is a great idea. Not only does it allow for the small neighbourhood/streets to interact with each other but it can also provide a days worth of dinner for a family."

-- Local resident

The Action Plan recommends a series of interconnected urban agriculture initiatives on private and public land to support local growing, sharing, distribution and skills building. The Plan will support neighbourhood-scale connections and programming between these initiative on public and private land, and between homes and towers. All of this work will involve local partners already on the ground as well as potential new implementation partners.



Example of Community Gardens facilitated by the City on public lands (Image courtesy of City of Brampton)



Growing produce at the San Romanoway Tower Gardens in Black Creek SNAP, Toronto (Image courtesy of Toronto and Region Conservation Authority)

Recommended Actions:

- 3.1 Create new community gardens in Earnscliffe Park and Fallingdale Park.
- 3.2 Create new community gardens at multi-unit residential buildings, starting with CAPREIT and Peel Living owned buildings.
- 3.3 Initiate container or balcony gardens programming at multi-unit residential buildings.
- 3.4 Increase backyard gardening at low and medium density homes, exploring harvest sharing components.
- 3.5 Host supportive education and skills-building workshops (e.g. nutrition, harvesting, preparation, preservation, etc.)

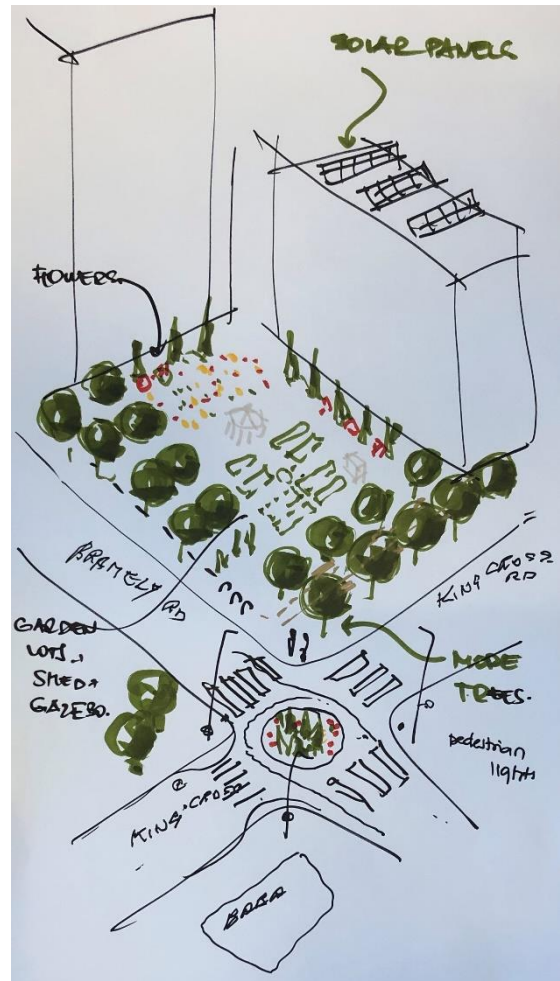
4.0 HOME AND BUILDING EFFICIENCY AND RESILIENCE

Second only to transportation, the residential sector represents a significant proportion of Brampton's energy use (26%), greenhouse gas (GHG) emissions (21%) and water consumption (73%)¹. With many older residential homes and buildings built during the 1960s through 1980s, Bramalea is within an area identified as among the highest residential energy and water use intensity in Brampton. There are also pockets of the Bramalea area with very low tree canopy cover and with older trees that will need succession plantings. Lower tree canopy cover, combined with urban heat and other local vulnerabilities, make pockets of this neighbourhood particularly vulnerable to climate change impacts as identified by Peel Heat Vulnerability Index.

The Action Plan recommends integrated initiatives and targeted programming to increase overall climate change resilience and reduce GHG emissions in all residential homes and buildings, from single detached dwellings to the high-rise towers. As outlined below, these initiatives focus on indoor and outdoor retrofits and revitalization projects to increase uptake in tree planting and sustainable landscapes, food growing and sharing, active living, energy and water conservation and efficiency, and supportive programming. This could also extend to shared systems between buildings across the neighbourhood at a district scale.

Tower Resilience and Efficiency Initiative

With fourteen residential towers and one townhouse complex located in the neighbourhood, a majority of households in this area of Bramalea are apartments in multi-unit residential buildings (MURBs). Fifty-three percent or 3,115 households are in high-rise and 5% or 293 are in low-rise building. The K-Section alone contains a cluster of twelve towers within four blocks, built during the post-war tower development boom of the 1960s and 1970s. The higher density areas have low tree



City of Brampton design staff Illustration from the community action planning workshop (Image courtesy of Toronto and Region Conservation Authority)

¹ City of Brampton Community Energy and Emissions Reduction Plan, 2020
Bramalea Sustainable Neighbourhood Action Plan

canopy cover and area identified as vulnerable to urban heat. Many of these towers are home to the community's most vulnerable populations, including low-income, recent immigrants, and seniors, and a higher than average percent suffers from type 2 diabetes in this area.

There is a tremendous amount of interest and opportunity in working with tower owners and management to undertake revitalization work that increases resilience and energy and water efficiency, but also help address some of the local health and well-being priorities and achieves community benefits within the tower community. This work will involve further engagement of local stakeholders and be informed by the following locally inspired objectives identified during action planning workshops and extensive local engagement.

Locally Inspired Objectives for Tower Resilience and Efficiency Initiative:

- Growing, preparing food
- Active, healthy living
- More trees, green infrastructure
- Connections between towers, shared uses
- Eco-construction methods
- Climate resilience and building efficiency
- Community building, local employment, skills training

Co-design workshops, community surveys, and engagement of tower owners have identified a range of possible features across tower properties. They include greening activities such as tree planting, perennial flowers and pollinator gardens, rainwater capture and use, parking lot greening, solar panels, and energy efficient lighting. Urban agriculture activities were a significant interest to many community members, including community gardens, container or balcony gardens and planter boxes, roof top gardens. Desired outdoor amenities include fitness equipment for all ages, natural playground components, a bike hub, and gathering spaces such as outdoor amphitheater, seating and tables, shade structures, and outdoor BBQ space. Suggested community programming included on-site events, community boards, and children's programs. There was also strong interest in safe pedestrian crossings outside the buildings and making stronger connections to nearby park space.



Community allotment gardens and mural installation at San Romanoway towers at Black Creek SNAP in Toronto
(Images courtesy of Toronto and Region Conservation Authority)

This initiative would also include building emergency preparedness measures, helping increase resilience to climate-related vulnerabilities like flooding and heat waves. Potential measures identified from other related tower initiatives include tenant communications, emergency plans, elevator safety, back-up generators and alternative energy sources.

Recommended Actions:

- 4.1 Work with interested tower property owners to develop site concept plans and/or recommendations to that support indoor and outdoor resilience and efficiency as well as community co-benefits.
- 4.2 Facilitate implementation of identified projects through fundraising and partnership brokering with public, private and non-government organizations.
- 4.3 Facilitate neighbourhood-wide virtual events to showcase projects and share lessons among tower owners.

Quick Start Projects – Revitalization at five towers is underway!

Early implementation and quick start projects have been integrated into the action planning process to build community interest and excitement, and inform the plan directions. TRCA has already begun working with tower owners Peel Living and CAPREIT and other local collaborators to co-develop tower revitalization concept plans and facilitate implementation partnerships for five buildings within the SNAP neighbourhood. This work brings forward the SNAP Action Plan objectives based on community and government engagement, and will involve close collaboration with building tenants and local implementation partners. Early projects completed include a series of tree planting events and tenant stewardship with ACER's Project Crossroads. Community gardens and educational programming with Ecosource are also being explored.



One of the Tower Concept Plans developed in parallel to the SNAP planning process, and one of the community tree planting days in collaboration with ACER's Project Crossroads and City of Brampton (Images courtesy of Toronto and Region Conservation Authority)

“At CAPREIT we pride ourselves on our ability to improve the resident experience. The Bramalea SNAP initiative will allow us to continue to build on the resident experience for our building communities and help develop a lasting resident and community relationship and a sense of pride. We find it important to giveback to our community and our residents, as it allows us the opportunity to create memorable experience.”

-- CAPREIT

Home and Property Resilience and Efficiency Initiative

With high residential energy intensity in the area and close to 2,300 homes of low and medium density exceeding 50 years in age, there is a need and opportunity to encourage home and property retrofits that reduce risks associated with climate change impacts and bring down overall GHG emissions.

The SNAP Action Plan recommends a Home and Property Resilience and Efficiency Initiative targeting existing low-rise properties in the E and F Sections. The initiative will be shaped by locally inspired objectives for indoor and outdoor improvements identified during the co-design workshops and surveys. Tailored marketing and the program offering will be informed by key homeowner interests, values and motivation as it relates to home improvement, as well as identified barriers to action and desired supports.

Locally Inspired Objectives for the Home and Property Resilience and Efficiency Initiative:

- Enhance energy efficiency through a range of home retrofits
- Increase local renewable energy production including solar PV and thermal
- Increase water conservation through eco-friendly or Fusion Landscapes and efficient fixtures
- Increase green infrastructure including raingardens or other Low Impact Development (LID)
- Enhanced urban forest through replacement and planting of diverse tree and shrub species
- Increase percentage of stormwater retained or reused through rainwater harvesting
- Increase household emergency preparedness and climate resilience

Homeowner Interests	Gardening for flowers and produce, other post-COVID-19 considerations to be explored, including health, well-being and community connections
Values and Motivations	Utility bills, resale value, and curb appeal, and to a lesser extent home comfort, and climate change and environment
Barriers to action	Upfront costs of home improvement projects, and for outdoor work, already having trees and landscaping in place, space limitations, and lack of knowledge of what to plant
Desired Supports	Internet resources, incentives, individual prizes, one-on-one in-home or virtual consultations, and local workshops



Homeowner and volunteers working on sustainable landscape retrofits in West Bolton SNAP, Caledon (Image courtesy of Toronto and Region Conservation Authority)



Neighbours come together for a do-it-yourself home energy party in County Court SNAP, Brampton (Image courtesy of Toronto and Region Conservation Authority)

This initiative will be phased to support the directions of the City of Brampton’s forthcoming home retrofit design initiative, and will involve ongoing collaboration of TRCA, City, Region and utilities. It will be developed based on further homeowner engagement and focus group testing to confirm tailored marketing messages. Based on the vulnerability analysis undertaken as part of the SNAP, it is recommended that the first phase of the program target early action in the most vulnerable pockets of the neighbourhood, including the medium density areas.

This work will support increased neighbourhood connections and overall community resilience by profiling home retrofit skills that residents already have, encouraging further skills building and sharing, facilitating community-based projects and demonstrations.

Recommended Actions:

- 4.4 Develop a targeted Home and Property Resilience and Efficiency Initiative to increase home owner uptake in key indoor and outdoor retrofits, integrating locally tailored marketing, free virtual or in-home consultations, referrals to available programs, incentives and individual prizes, ongoing support and follow ups, and cross promotion of related events.

5.0 INSTITUTIONAL AND COMMERCIAL COLLABORATION AND GREENING

There is a diversity of institutional and commercial properties within the neighbourhood, including Earnscliffe Recreation Centre, five elementary schools, six places of worship, and four commercial plazas. There are an even greater number just beyond the boundaries of the neighbourhood, including the Bramalea Civic Centre, Brampton Library, commercial Bramalea City Centre to the east and numerous industrial properties to the west. Some of these properties have been engaged throughout the planning process, and for others there is opportunity to explore interest.

Locally Inspired Objectives for Institutional and Commercial Collaboration and Greening:

- Enhanced energy and water efficiency through a range of building retrofits
- Increase local renewable energy production solar, geothermal
- Increase green infrastructure and outdoor water efficiency through Fusion Landscapes, Low Impact Development (LID), diverse tree, shrub and garden planting
- Increase emergency preparedness and resilience to climate-related vulnerabilities
- Neighbourhood-scale initiatives including district energy
- Sponsorship or involvement in local community-based projects and events



Example of institutional parking lot greening (Image courtesy of Toronto and Region Conservation Authority)

The Action Plan recommends targeted engagement of institutional and commercial properties to explore interest in collaborating on community-based SNAP projects and encourage greening initiatives on their own properties, including learning or applying new sustainable technologies and approaches. These include energy and water retrofits, parking lot greening, sustainable landscaping, tree planting, green or cool roofs, sustainable energy (e.g. solar, geothermal) and district energy. There is opportunity to help support Places of Worship participation in Brampton's Lighthouse Program supporting emergency preparedness and response. For schools, it can involve collaboration on School Travel Plans (STP) to support active transportation goals.

Recommended Actions:

- 5.1 Engage local businesses in collaboration with TRCA's Partners and Project Green, the City's Economic Development Office and Community Energy and Emissions Reduction Plan (CEERP) team.
- 5.2 Engage local schools in collaboration with the Bramalea Community Network, TRCA Community Learning team and Region of Peel active transportation team.
- 5.3 Engage places of worship in collaboration with the Bramalea Community Network, Brampton's Emergency Management Office, municipal Councillors and local contacts.
- 5.4 Engage municipally owned facilities through City and Regional staff.

Supporting a climate resilient, low-carbon future

The Bramalea SNAP Action Plan supports directions set out by municipal plans regarding reduced greenhouse gas emissions through the integrated projects on public and private lands. Through the development of the Action Plan, a rapid vulnerability assessment was undertaken to identify the key climate change impacts on the community, its buildings and infrastructure, as well as its natural systems and highlight areas that may be more vulnerable to these impacts. These adaptation measures have also been integrated into the Action Plan recommendations. Together these include:

Mitigation

- Indoor and outdoor home and building retrofits for increased water and energy efficiency and waste management
- Exploring use of sustainable, locally generated energy
- Green infrastructure and natural system restoration supporting carbon sequestration, and reducing heating and cooling requirements
- Increased walking and cycling, reducing car use for local trips
- Reduced food miles through local food production and urban agriculture

Adaptation

- Natural system resilience and reduced heat stress through Eco Spaces, multi-purpose road diets and green infrastructure
- Improving community emergency preparedness through neighbourhood connections, local food production, and local leadership
- Increased private property resilience through better lot-level stormwater management for frequent and severe storms, and sustainable landscapes and rainwater harvesting to alleviate drought impacts
- Exploring use of sustainable, locally generated energy

6.0 COMMUNITY RESILIENCE

The Bramalea SNAP Action Plan supports community resilience by integrating community health and socio-economic benefits and supporting stronger neighbourhood connections. The Plan also supports emergency preparedness through stronger local networks, local awareness of climate-related issues and education. There is already a strong sense of belonging in Bramalea, with local leaders and organizations active in some areas of the neighbourhood. However more is needed to support and grow these efforts, and to support new community-based projects and programming. Many residents expressed interest in ongoing involvement in the SNAP, which is critical. They are interested in volunteering, skills sharing, helping undertake engagement, promotion, and fundraising.



Example of a Neighbourhood street party in County Court SNAP in Brampton (Image courtesy of Toronto and Region Conservation Authority)

Locally Inspired Objectives for Community Resilience:

- Offer opportunities for resident connections, skills building and skills sharing
- Support local leadership and formation of resident groups
- Connect existing programs and organizations with members of the community
- Increase emergency preparedness awareness, education and action
- Support community-based projects that support animated spaces, and arts and culture

“The most important feature of this action plan is that it is bringing the community together as a whole.”

-- Local resident

The Action Plan recommends facilitating community events and programming to help support further neighbourhood connections, capacity-building, emergency preparedness, arts and culture. TRCA will lead these efforts in the short term, helping support community members as they move from participants to leaders.

Recommended Actions:

- 6.1 Host regular virtual resident meetings and/or educational events related to recommended projects, emergency preparedness, and other resident interests, and collaborate with Bramalea Community Network and other local stakeholders to co-design and promote.
- 6.2 Facilitate fun, family oriented annual events, local markets and pop-up initiatives (as in-person events are allowed based on COVID-19 restrictions), cross-promoting existing programs and organizations.
- 6.3 Support community members and implementation partners in collaborating on community-based projects and crowdsourced funding initiatives.
- 6.4 Continue to collaborate with the Bramalea Community Network and municipal Councillors on implementation projects of shared interest.

MEASURING SUCCESS

The Bramalea SNAP has been designed to address core environmental priorities, but also a number of critical social and health related priorities. These support numerous municipal and Conservation Authority plans and strategies. To measure impact and success over time, a framework of long term neighbourhood-scale target outcomes has been identified based on the action plan’s shared objectives. These are outlined in Table 2. ‘Outcomes’ are defined as observed changes anticipated over the long term (by 2040).



Table 2: Target Outcomes (Longer term observed changes)

SUSTAINABILITY OBJECTIVE	KEY OUTCOME
Natural system health	<ul style="list-style-type: none"> • Increase natural cover in TRCA’s terrestrial natural heritage system from 3% (5.9 ha) to 8% (17.6 ha) by 2040 • Increase urban forest canopy cover from 17% (39.7 ha) to 27% (60.8 ha) by 2040 • Increase habitat quality in the TNHS and riparian zones
Stormwater management	<ul style="list-style-type: none"> • Improved floodplain function, hydrology and capacity and reduced velocity and erosion in Mimico Creek by 2040 • Increase infiltration of stormwater to reduce runoff volumes and increase water quality by 2040
Climate resilience and low carbon	<ul style="list-style-type: none"> • Increase household energy efficiency to support City target of 35% energy efficiency gain by retrofitting 80% of existing homes by 2041 • Increase commercial and institutional energy efficiency to support City target of 22% energy efficiency gain by retrofitting 60% of existing buildings by 2041 • Improved knowledge amongst area residents in emergency preparedness
Water efficiency	<ul style="list-style-type: none"> • Increase household water efficiency to support City target of 34% gain from 2016 levels by 2041 • Achieve the Region of Peel water efficiency target by reducing the residential single-family indoor water demands to 150 Lcd by 2025
Active movement	<ul style="list-style-type: none"> • % Increase in residents participating in walking or cycling • Increase Region of Peel’s Walkability Score
Health and well-being	<ul style="list-style-type: none"> • Increase in % of program participants reporting physical and mental well-being • Increase in % of program participants reporting physical activity during leisure time • # and % of participants in SNAP learning activities who indicate that they have improved their likelihood of finding employment through those activities
Safe and welcoming public spaces	<ul style="list-style-type: none"> • Increase % of people indicating they know their neighbourhoods • Increased satisfaction levels in neighbourhood features • Increase in the # of interesting spaces for people to gather • Decreased levels of litter in public spaces
Arts, culture and place	
Engagement and inclusion	

In support of the long term target outcomes above, additional shorter term indicators can be used to track progress in the right direction. These are referred to as ‘outputs’ and represent direct results of project or program activities. Indeed, achievement of these also represent success in their own right.

Table 3 illustrates a selection of example measurable outputs for each action plan theme as well as a summary of the multiple objectives they collectively support.

A Performance Monitoring Plan will be developed to confirm specific monitoring and evaluation strategies for the outputs and outcomes identified. Baseline is available for many of the indicators, and where not available will be obtained prior to work being undertaken.

Spotlight: Enhancing the Urban Forest

The neighbourhood urban forest canopy can be increased by 10% through planting an estimated 2,897 across public and private properties:

- 564 in residential yards
- 262 along local streets
- 876 at multi-unit residential buildings
- 7 in parking lots
- 871 on institutional properties
- 317 in parks outside the large Eco Spaces

Table 3: Target Outputs (Shorter term direct actions)

ACTION PLAN RECOMMENDATION	EXAMPLE OUTPUTS	SUSTAINABILITY OBJECTIVE ADDRESSED
System of Eco Spaces and Green Infrastructure	<ul style="list-style-type: none"> • Increased area of improved habitat through restoration or enhancement • Increased # and species of trees and shrubs planted • Increased # projects or improvements that integrate the arts or interpretive signage 	<ul style="list-style-type: none"> • Natural system health • Stormwater management • Safe and welcoming public spaces • Arts, culture and place • Active movement
Safe and Active Transportation Network	<ul style="list-style-type: none"> • Increased length (kms) of cycling infrastructure added (e.g. bike lanes, multi-use recreational trails, bicycle friendly roads) • Increase total length of multi-purpose road diets • # of new or enhancement pedestrian crossings 	<ul style="list-style-type: none"> • Safe and welcoming public spaces • Active movement • Natural system health • Arts, culture and place
Healthy Local Food System	<ul style="list-style-type: none"> • Increased # of community and balcony gardens in production • Increased # of participants and hours in learning, education and skills training SNAP program activities • Increased # participants and hours in programs involving active living, such as gardening, walking, cycling, etc. 	<ul style="list-style-type: none"> • Health and well-being • Active movement • Natural system health • Stormwater management
Home and Building Efficiency and Resilience	<ul style="list-style-type: none"> • Increased # of home retrofits in energy efficiency, green energy sources, or water efficiency • Increased # fusion or eco-friendly landscapes installed • Increased # of participants and hours in learning, education and skills training SNAP program activities 	<ul style="list-style-type: none"> • Climate resilience and low carbon • Water efficiency • Natural system health • Stormwater management • Materials management

<p>Institutional and Commercial Collaboration and Greening</p>	<ul style="list-style-type: none"> • Increased area or # of green infrastructure or Low Impact Development projects installed • Increased # of ICI retrofits in energy efficiency, green energy sources, or water efficiency • Increased waste diversion from landfill resulting from materials management initiatives 	<ul style="list-style-type: none"> • Climate resilience and low carbon • Water efficiency • Natural system health • Stormwater management • Materials management
<p>Community Resilience</p>	<ul style="list-style-type: none"> • Increased # and % of total residents involved in program activities • Increased # community events or workshops • Increased # new and existing delivery partnerships 	<ul style="list-style-type: none"> • Engagement and inclusion • Arts, culture and place • Climate resilience and low carbon

NEXT STEPS

This shared SNAP Action Plan was co-developed with a focus on collaborative implementation. Following the approval of the Action Plan, next steps include:

1. **Establish Implementation Team** – The Project Management Team will transition to an Implementation Team to be co-chaired by City of Brampton and TRCA. This Team will oversee overall SNAP implementation through annual work plan alignment, coordination among working groups, tracking and performance monitoring, and review of community engagement cross-promotion opportunities. TRCA will develop a Terms of Reference for the Implementation team with expectations, roles, responsibilities, and timelines.
2. **Establish Working Groups for Priority Projects** – Working groups with representative from City, Region and TRCA have already emerged to lead priority project implementation and continued community engagement. To help guide working groups and maintain the spirit of the Action Plan, an Implementation Framework is being developed that identifies lead implementers, key collaborators and partners, potential funding sources, next steps and estimated implementation timeframes. Key priority projects for 2021-2022 include:
 - 2.1 **Eco Space parks design** for the Fallingdale, Earnscliffe, Eastbourne and Edgebrooke Park system and initiation of channel and floodplain design for the re-naturalization of the Mimico Creek – to be led by City and TRCA in collaboration with Region and other implementation groups.
 - 2.2 **Tower Resilience and Efficiency Initiatives** at CAPREIT and Peel Living buildings – to be led by TRCA in collaboration with tower owners and implementation groups.
 - 2.3 **Multi-objective Road Diets** on Kings Cross Road, Balmoral Drive and Eastbourne Dr – to be led by City of Brampton in collaboration with TRCA, Region of Peel and implementation groups.
 - 2.4 **Targeted Home and Property Resilience and Efficiency Initiative** – further community research in 2021 and piloting of the initiative in 2022 to be led by TRCA in collaboration with City and Region in coordination with the City's forthcoming home retrofit design initiative.
3. **Development of detailed Performance Monitoring Plan** – Based on the target outputs and outcomes outlined in the Action Plan, the Implementation Team will confirm a Performance Monitoring Plan including an evaluation framework of key short and long term output and outcome indicators, data sources and timelines for tracking.
4. **Fundraising in support of community-based projects** – Where there is opportunity to leverage implementation resources, City, TRCA and Region will collaborate across staff groups and community organizations to support fundraising efforts and community-based projects.

APPENDIX 1

ACTION PLAN SHARED OBJECTIVES AND DESCRIPTIONS

Shared Objective	Description – based on community and partner input
Natural system health	The community’s natural heritage and urban forest is enjoyed, well cared for, and expanded to support diverse local habitat and connections. This green infrastructure system is resilient to climate change impacts, provides many health and environmental benefits, and supports the natural water cycle and improved stormwater management.
Stormwater management	The community’s natural and built environment supports integrated stormwater management on public and private land. This reduces rainwater runoff, improves water quality, mitigates flood risk, and supports the natural water cycle.
Climate resilience/preparedness and low carbon	The community is aware of local climate-related risks and is adapting through resilient natural and built infrastructure, community connections, and emergency plans. It is also mitigating further harm by reducing carbon use and greenhouse gases through building retrofits and more active transportation.
Water efficiency	The community reduces overall water consumption by practicing indoor and outdoor water conservation, making use of high efficiency appliances and fixtures, and using alternative water sources such as rainwater where possible.
Health and well-being	Residents live happy, healthy lives, practicing good diet and lifestyle behaviors resulting in better physical and mental health outcomes. They have access to affordable, healthy food options and local urban agriculture, as well as nature, supporting nourishment of the most vulnerable community members. Residents are ready for school and have job skills that help support employment.
Active movement	Residents choose active forms of transportation for local trips and commuting, supported by accessible and connected active transportation infrastructure. Residents enjoy a high-quality public realm and pedestrian experience, which results in improved health, and reduced congestion and greenhouse gas emissions.
Safe and welcoming public spaces	Residents feel safe and welcome making use of parks and streets, which offer multiple uses for all life stages. High-quality public spaces are designed with safety in mind, and integrate nature, beauty, public art, and music.
Engagement and inclusion	Residents feel a strong sense of belonging, are active and connected in their community, and practice courtesy and respect for all people and environments. There are opportunities for local leadership and decision-making and collective action for shared goals.
Arts, culture, and place	Residents enjoy vibrant spaces, programs, and events that support understanding and local history, celebration of local talent, strengthening of community identity and sense of place. This includes local events and celebrations, and wayfinding and art in the public realm.
Materials management	This is a clean community that is litter-conscious and minimizes the quantity of waste generated. Everyone’s efforts to refuse, reduce, reuse, and recycle results in less waste going to landfill and reduced greenhouse gases related to the consumption and transport of goods and services in the neighbourhood.

APPENDIX 2

SUMMARY OF ACTION PLAN RECOMMENDATIONS

<p>SYSTEM OF ECO SPACES AND GREEN INFRASTRUCTURE</p> <p>Re-shaping older parks into Eco Spaces, supporting a healthy green infrastructure system extending into backyards, tower properties, and streets</p>	<p>SAFE AND ACTIVE TRANSPORTATION NETWORK</p> <p>Enhancements to the existing pedestrian and cycling routes, including safe pedestrian crossings and multi-objective road diets improvements in key areas</p>	<p>HEALTHY LOCAL FOOD SYSTEM</p> <p>A series of interconnected urban agriculture initiatives on private and public land to support local growing, sharing, distribution and skills building</p>	<p>HOME AND BUILDING EFFICIENCY AND RESILIENCE</p> <p>Integrated initiatives and targeted programming to increase overall climate change resilience and reduce GHG emissions in all residential homes and buildings, from single detached dwellings to the high-rise towers</p>	<p>INSTITUTIONAL AND COMMERCIAL COLLABORATION AND GREENING</p> <p>Targeted engagement of institutional and commercial properties to collaborate on community-based SNAP projects and encourage greening initiatives on their own properties</p>	<p>COMMUNITY RESILIENCE</p> <p>Facilitating community events and programming to help support further neighbourhood connections, capacity-building, education, arts and culture.</p>
<p>Fallingdale, Earnscliffe, Eastbourne and Edgebrooke Parks:</p> <p>1.1 Develop an Eco Space parks design for the Fallingdale, Earnscliffe, Eastbourne and Edgebrooke Park system, integrating all planned projects and identified features, guided by the Eco Park principles and locally inspired objectives.</p> <p>1.2 Initiate channel and floodplain design for the re-naturalization of the Mimico Creek, a key component of the Eco Space design.</p> <p>Knightsbridge Park:</p> <p>1.3 Review and address smaller scale enhancements including improved lighting and visibility, surface replacements, additional seating and shade, waste and recycling receptacles.</p> <p>1.4 Review and improve pathway connections to Chinguacousy Park in the north and Chelsea Gardens towers in the east.</p> <p>1.5 Work with community groups to plant more trees and gardens, host supportive safety workshops, anti-litter campaigns, community clean ups, and community-based projects to create more animated spaces.</p> <p>1.6 Integrate larger scale enhancements into future park renewal plans including playground and fitness stations, wayfinding, green parking lot and washrooms.</p>	<p>2.1 Create multi-objective Road Diets on Kings Cross Road, Balmoral Drive, Finchgate Boulevard, Eastbourne Drive.</p> <p>2.2 Create a new recreational trail to connect pedestrians and cyclists along Clark Boulevard from Finchgate Boulevard to Eastbourne Drive.</p> <p>2.3 A series of pedestrian safety improvements at key road crossing locations, and new pedestrian crossings in some locations.</p> <p>2.4 Install traffic calming measures (e.g. improved speed signs, better school drop-off zones).</p> <p>2.5 Make recreational trail improvements in parks (e.g. sign and wayfinding, better connections).</p> <p>2.6 Create innovative and sustainable bus stop improvements (e.g. natural/pollinator garden roofs).</p>	<p>3.1 Create new community gardens in Earnscliffe Park and Fallingdale Park.</p> <p>3.2 Create new community gardens at multi-unit residential buildings, starting with CAPREIT and Peel Living owned buildings.</p> <p>3.3 Initiate container or balcony gardens programming at multi-unit residential buildings.</p> <p>3.4 Increase backyard gardening at low and medium density homes, exploring harvest sharing components.</p> <p>3.5 Host supportive education and skills-building workshops (e.g. nutrition, harvesting, preparation, preservation, etc.).</p>	<p>High density, multi-unit residential buildings:</p> <p>4.1 Work with interested tower property owners to develop site concept plans and/or recommendations to that support indoor and outdoor resilience and efficiency as well as community co-benefits.</p> <p>4.2 Facilitate implementation of identified projects through fundraising and partnership brokering with public, private and non-government organizations.</p> <p>4.3 Facilitate neighbourhood-wide virtual events to showcase projects and share lessons among tower owners.</p> <p>Low and Medium density homes:</p> <p>4.4 Develop a targeted Home and Property Resilience and Efficiency Initiative to increase home owner uptake in key indoor and outdoor retrofits, integrating locally tailored marketing, free virtual or in-home consultations, referrals to available programs, incentives and individual prizes, ongoing support and follow ups, and cross promotion of related events.</p>	<p>5.1 Engage local businesses in collaboration with TRCA's Partners and Project Green, the City's Economic Development Office and Community Energy and Emissions Reduction Plan (CEERP) team.</p> <p>5.2 Engage local schools in collaboration with the Bramalea Community Network, TRCA's Community Learning team and Region of Peel active transportation team.</p> <p>5.3 Engage places of worship in collaboration with the Bramalea Community Network, Brampton's Emergency Management Office, municipal Councillors and local contacts.</p> <p>5.4 Engage municipally owned facilities through City and Regional staff.</p>	<p>6.1 Host regular virtual resident meetings and/or educational events related to recommended projects, emergency preparedness, and other resident interests, and collaborate with Bramalea Community Network and other local stakeholders to co-design and promote.</p> <p>6.2 Facilitate fun, family oriented annual events, local markets and pop-up initiatives (as in-person events are allowed based on COVID-19 restrictions), cross-promoting existing programs and organizations.</p> <p>6.3 Support community members and implementation partners in collaborating on community-based projects and crowdsourced funding initiatives.</p> <p>6.4 Continue to collaborate with the Bramalea Community Network and municipal Councillors on implementation projects of shared interest.</p>