



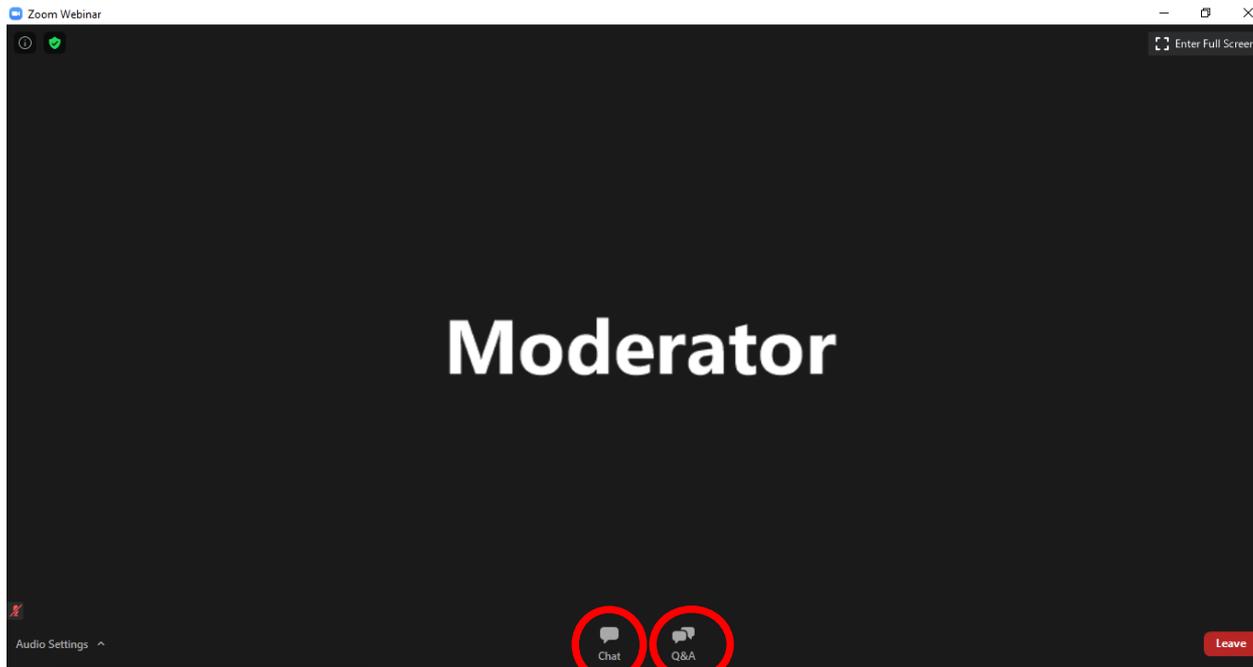
Welcome!

Regional Official Plan Review Climate Change Public Information Session

We look forward to hearing from you!

Zoom Meeting Functions - Attendees

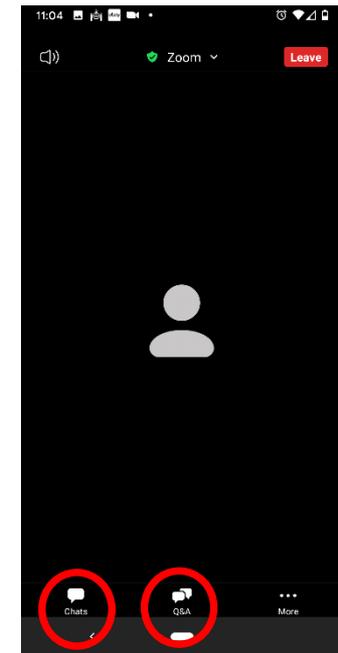
Personal Computer



Disabled

Write a
Question

Smart Phone



Disabled

Write a
Question

If you're having technical problems, please communicate with our hosts using the Q&A icon or email ropr@halton.ca.

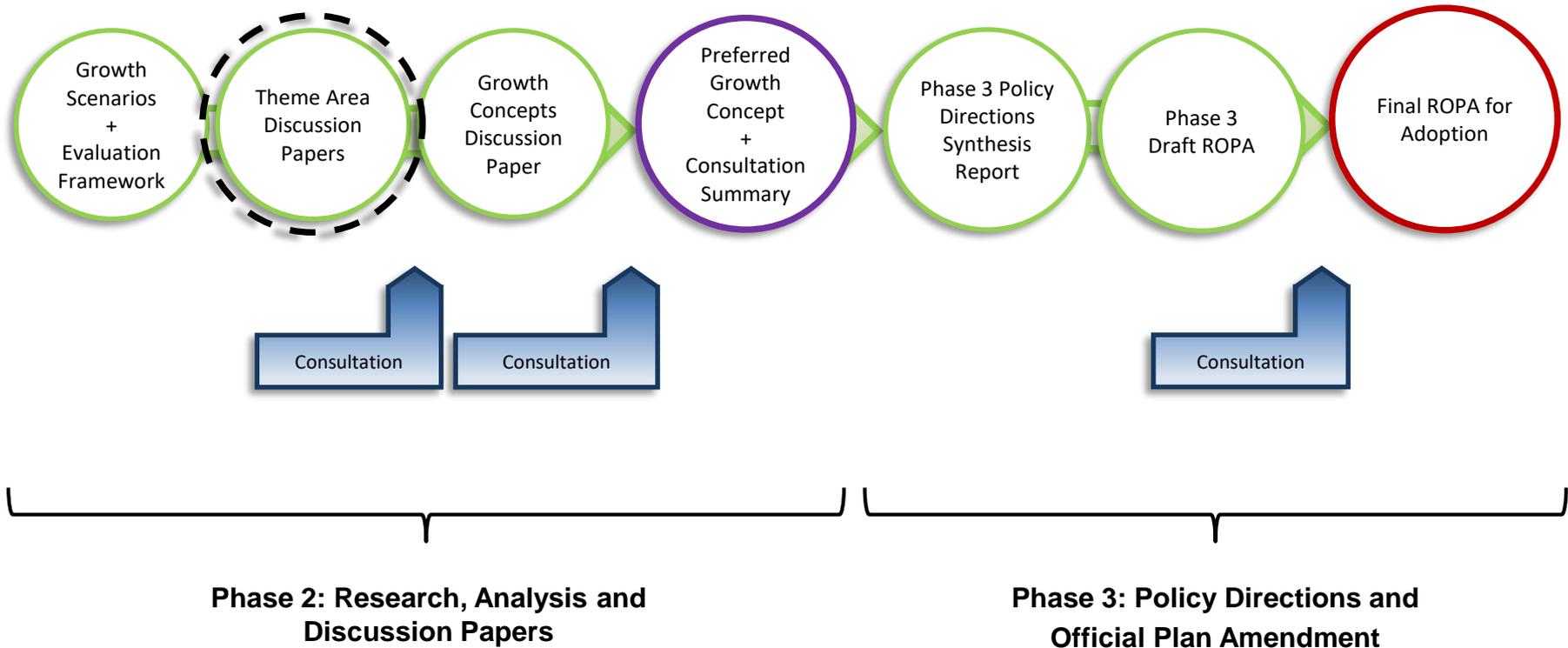
Regional Official Plan Review: Climate Change Public Information Centre



Virtual PIC
Sept.3, 2020



Current Regional Official Plan Review Status



Community Engagement

Virtual Public Information Centres (Start at 7pm):

- Sept. 3 – Climate Change
- Sept. 9 – North Aldershot Planning Area
- Sept. 10 – Regional Urban Structure / Integrated Growth Management Strategy
- Sept. 17 – Rural and Agricultural System & Natural Heritage System

Website: www.halton.ca/ropr

- Download the 5 Discussion Papers
- Complete Questionnaires

Email: ropr@halton.ca

Telephone: 311



Participant Poll #1

Where do you live in Halton Region?

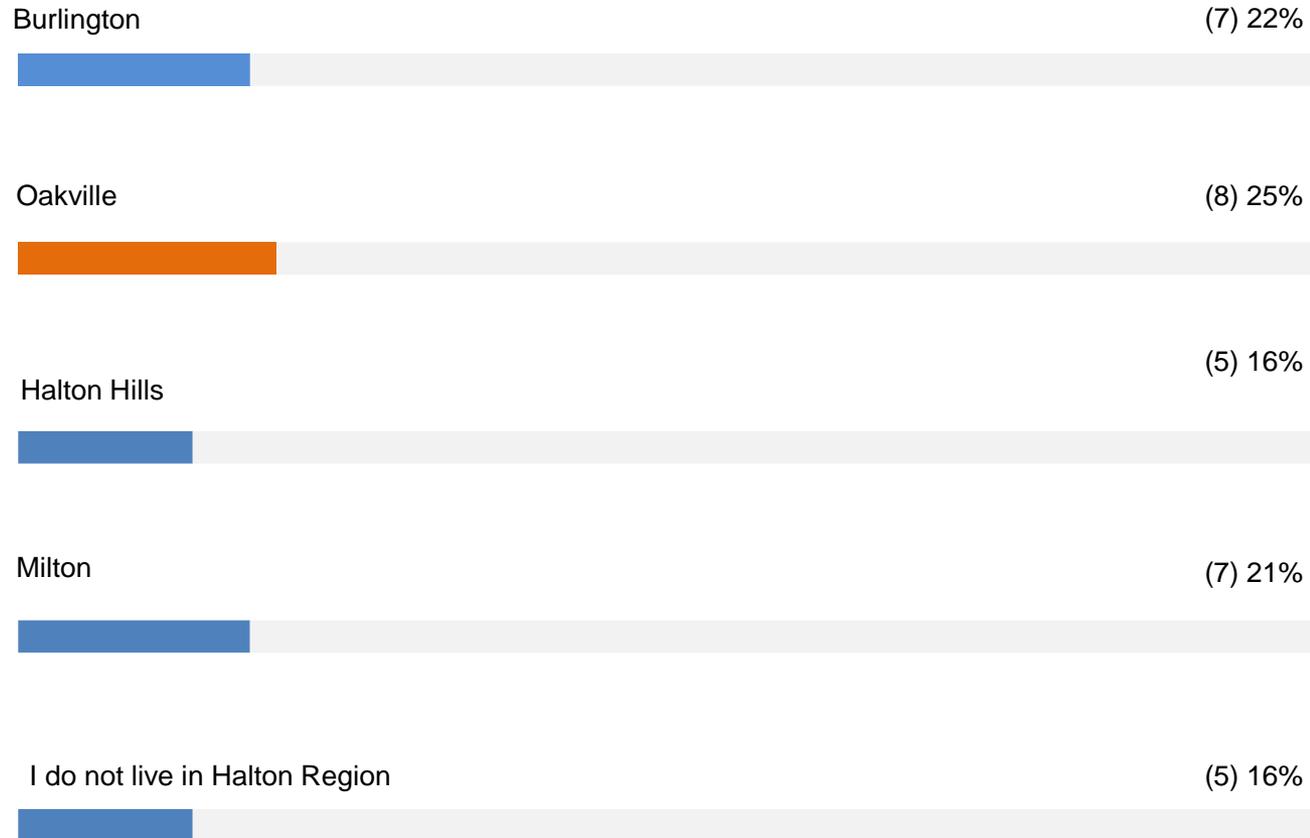
- a) Burlington
- b) Oakville
- c) Halton Hills
- d) Milton
- e) I do not live in Halton Region

What best describes your relationship with Halton Region?

- a) Resident
- b) Business Owner
- c) Member of the Development/Building Industry
- d) Non-Governmental Organization
- e) Local Municipal Government Partner
- f) Other

Participant Poll #1 - Results

Where do you live in Halton Region?

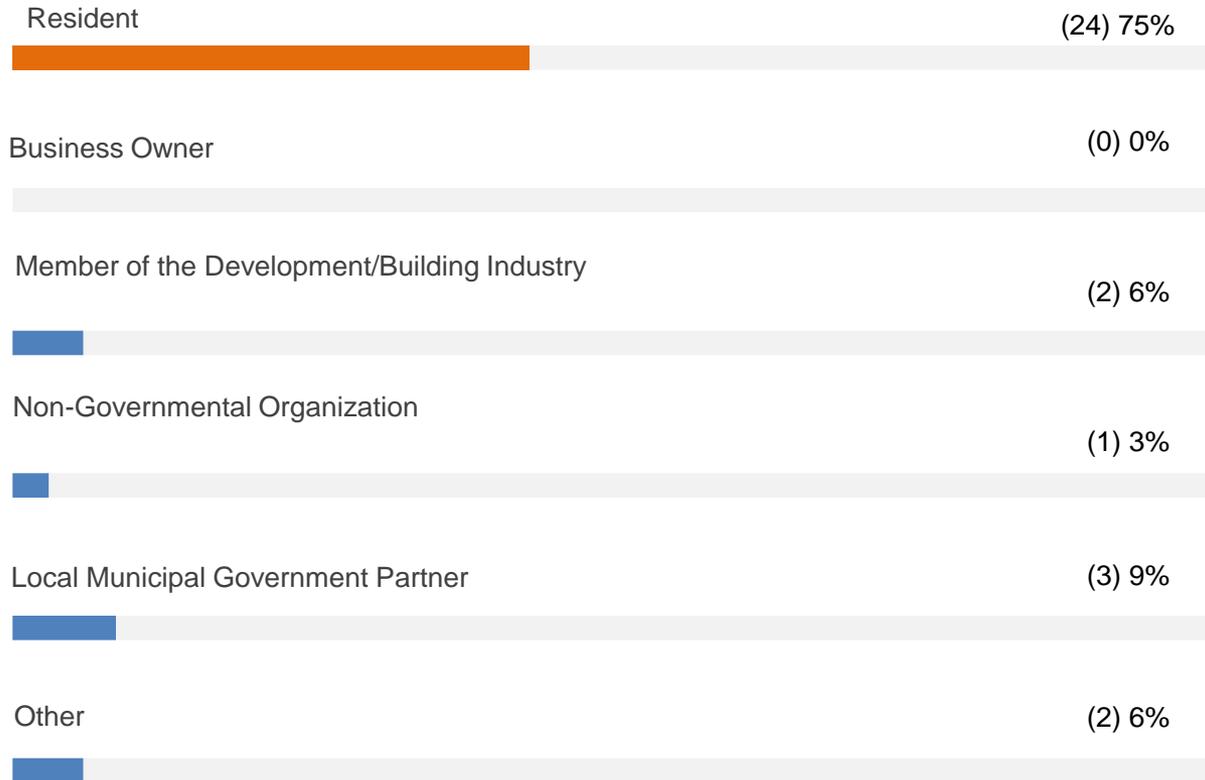


(32 of 32 Votes) 100%
Values rounded



Participant Poll #1 - Results

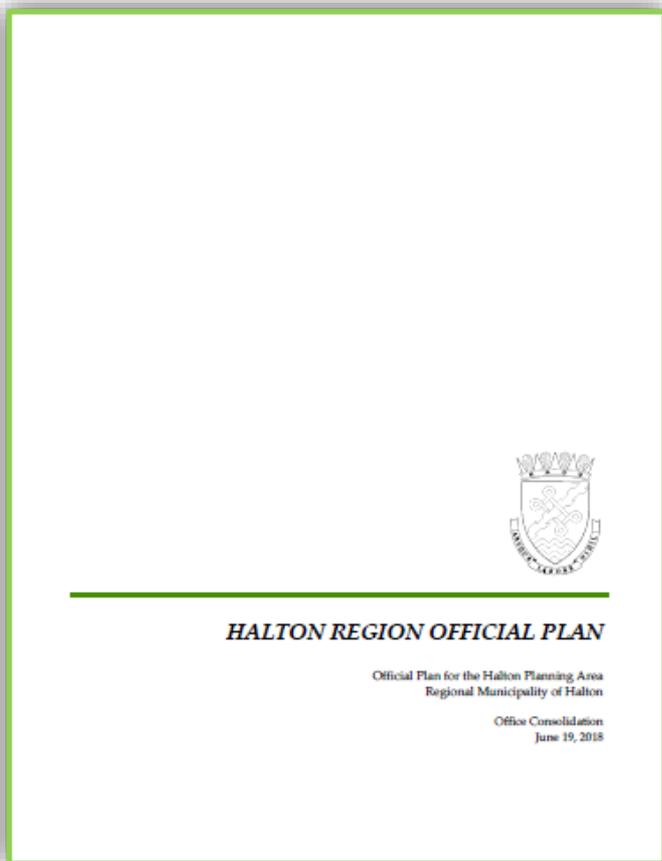
What best describes your relationship with Halton Region?



(32 of 32 Votes) 100%
Values rounded

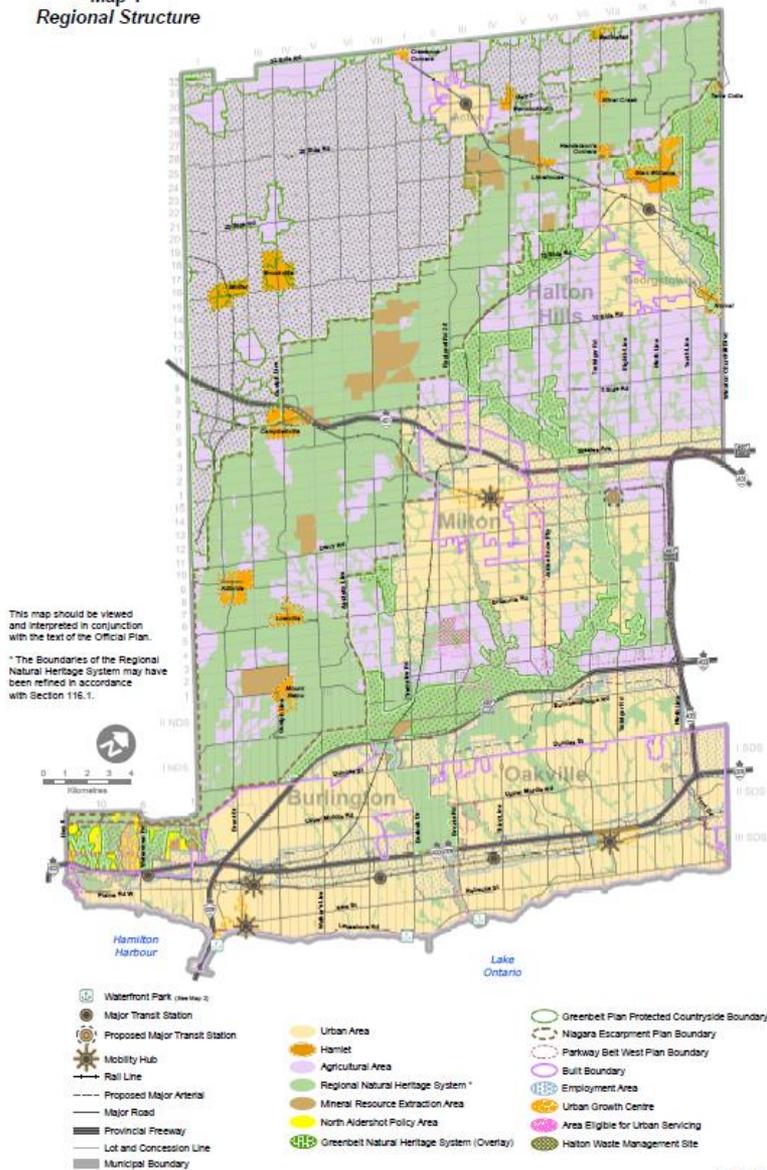


What is the Regional Official Plan?



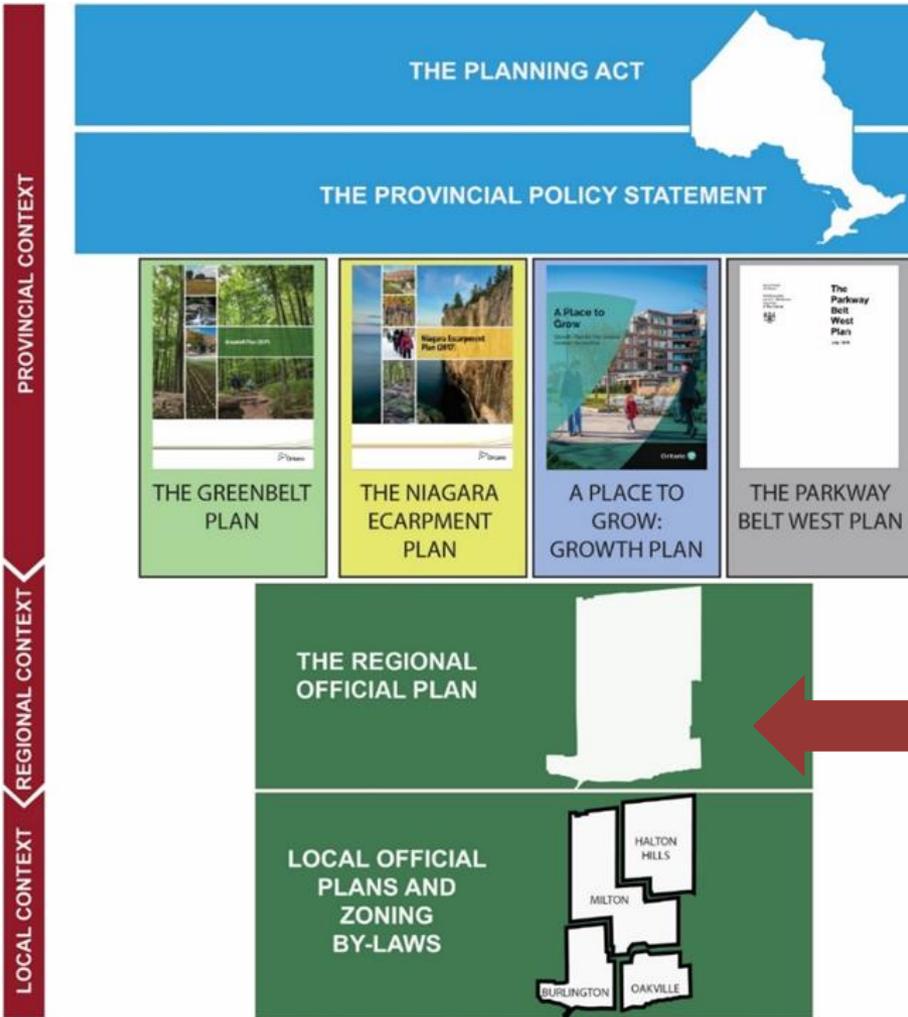
- Adopted by Council
- Long term Vision for Halton's physical form and community character
- Delivery of Regional services and responsibilities as set out in Planning Act, Municipal Act and other Provincial legislation

Map 1
Regional Structure



- Regional Structure implements Halton's land use planning vision
- Settlement Areas, Agricultural System, Natural Heritage System
- Provincial Plan Areas
- Province requires Halton to designate lands for future growth

Why Review the Regional Official Plan?



- The public plays an important role in the land use planning process.
- Your input helps Council make better decisions that affect your future.

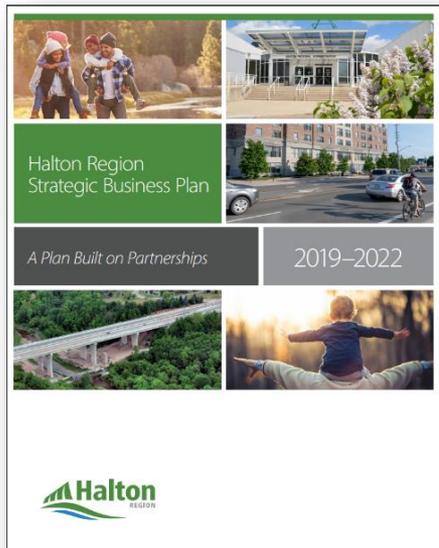


Climate Change Emergency

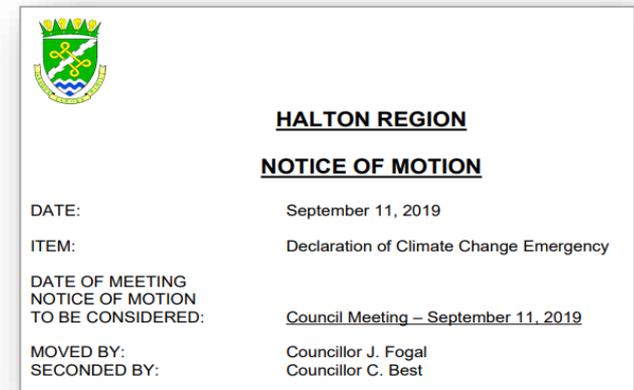
Regional Official Plan must be “consistent with” and “conform” to Provincial Policies and Plans



Directions from Halton’s Strategic Business Plan



Direction from Halton Regional Council’s Climate Change Emergency Declaration



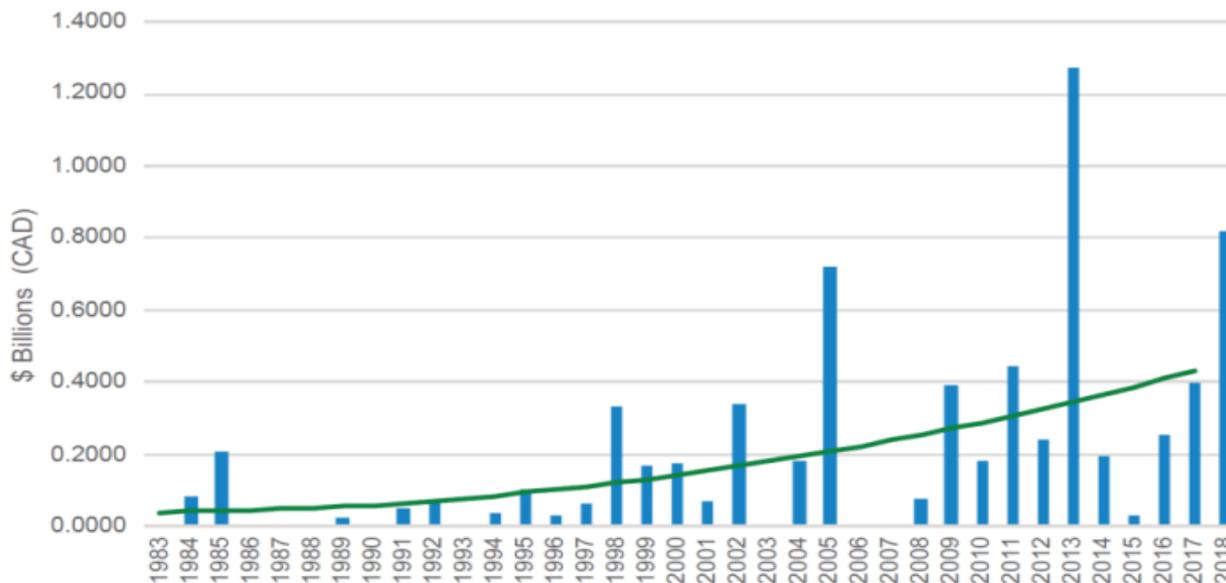
Defining Climate Change

- A change of climate that is attributed directly or indirectly to human activity that alters the composition of the global atmosphere and that is in addition to natural climate variability observed over comparable time periods. *United Nations Framework Convention on Climate Change, 2011.*
- Changes are largely the result of greenhouse gas (GHS) emissions and are reflected in changes in weather and conditions that impact people's everyday lives.

Background

Impacts and Threats

- Warmer, Wetter and Wilder Weather
- Growing Health Concerns
- Higher Economic Tolls



Record of losses greater than \$25 million due to catastrophic events in Ontario
(Environmental Commissioner of Ontario)

Effects of Climate Change



Ice Storms - Scotsdale Farm, Halton Hills, 2013 (Source: Halton Hills Public Library)



Heavy Rain - City of Burlington, 2014 (Source: City of Burlington website)



Flooding - City of Burlington, 2014 (Source: Robert Deeks)



Invasive Species – Giant Hogweed (Source: Ontario's Invading Species Awareness Program)



Public Health – Black Legged Tick (Source: Sudbury.com)

Climate Change Through the ROPR

Adaptation and Mitigation Throughout the ROP



Adaptation

Climate change adaptation is the collection of actions taken to assist communities in responding to severe climate events, including preventing or minimizing the damage they can cause.

ROP Policy Areas

- Growth Management
- Transportation
- Energy & Utilities
- Agriculture
- Natural Heritage & Environmental Quality

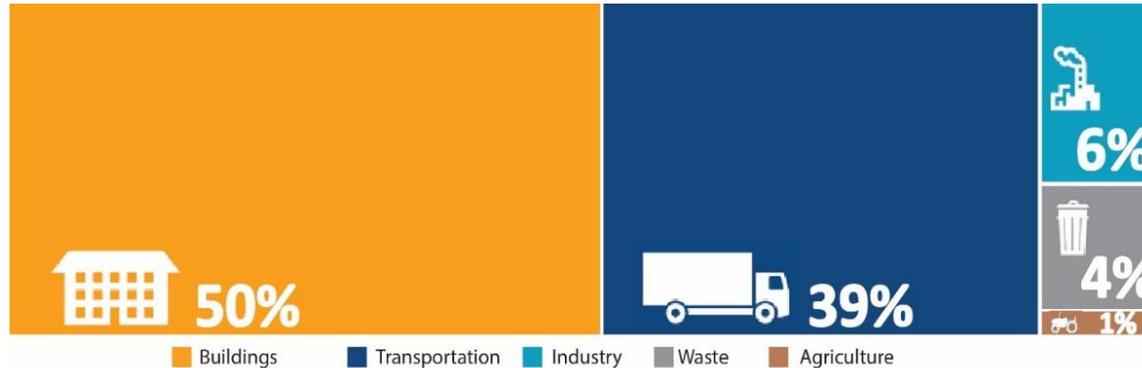


Mitigation

Climate change mitigation includes efforts undertaken to reduce or prevent emission of GHGs by using new technologies, renewable energies, compact built forms and active forms of transportation.

Background

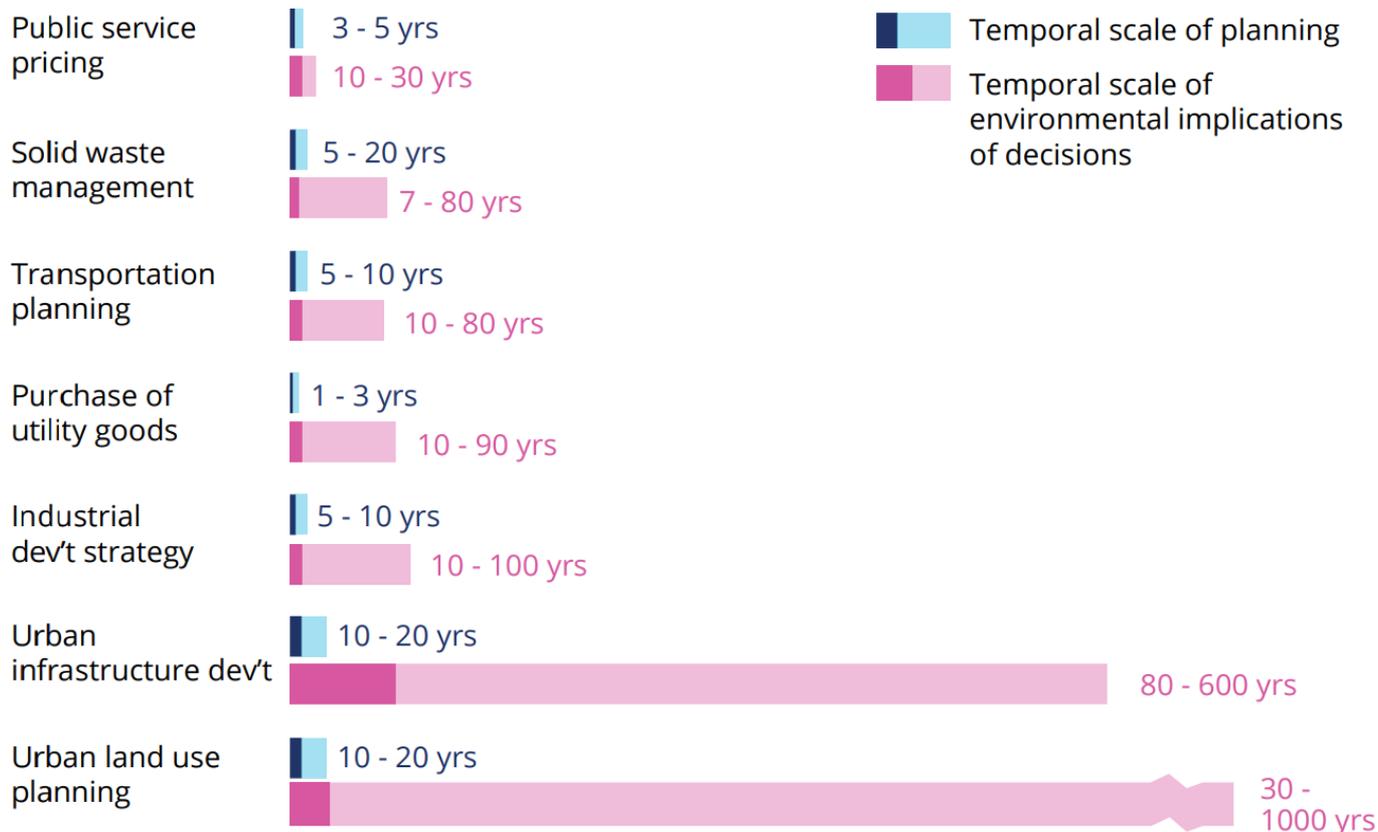
Emissions and Trends



- Transportation and Building Emissions account for almost 90% of Halton's emissions
- These emission levels reflect the way we live and move throughout the Region
- Land use decisions that govern how we build, where we grow and how we move can play a significant role in reducing these emission levels.

Land Use Planning Decisions and Climate Change

The temporal (over time) environmental implications of municipal decisions



Source: The Atmospheric Fund, Carbon Emissions Inventory for the GTHA, 2019 Edition

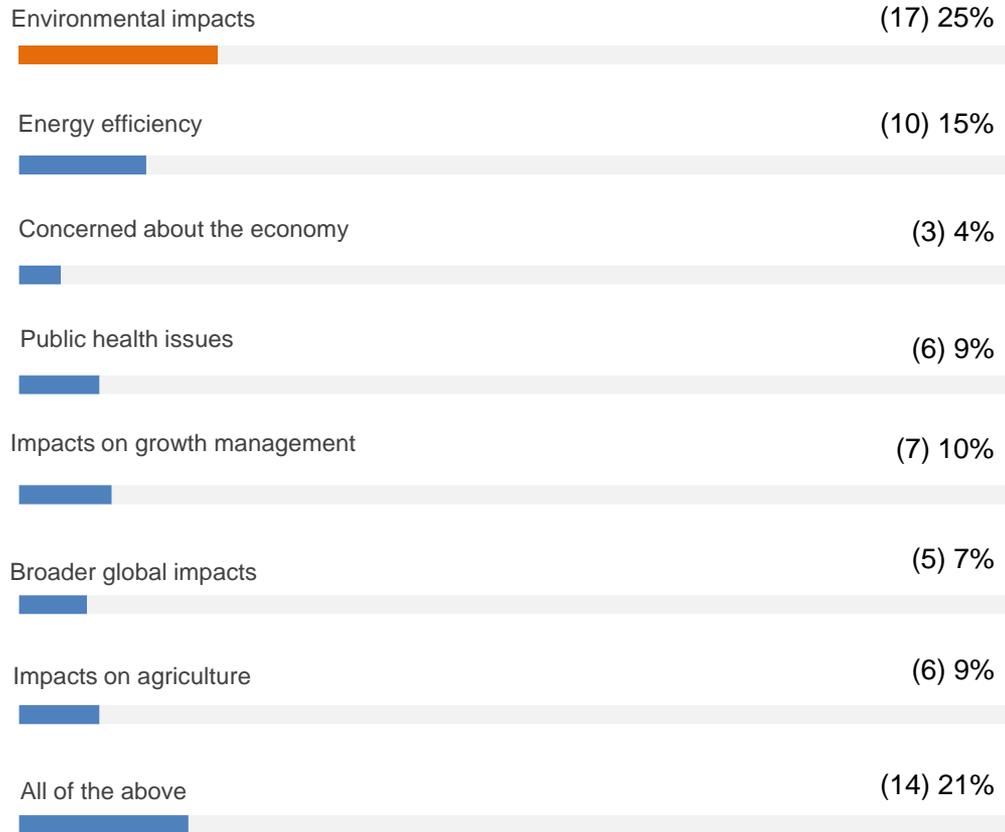
Participant Poll #2

What are your interests in Climate Change? (Multiple Choice)

- a) Environmental Impacts
- b) Energy Efficiency
- c) Concerned about the Economy
- d) Public health Issues
- e) Impacts on Growth Management
- f) Broader Global Impacts
- g) Impacts on Agriculture
- h) All of the above

Participant Poll #2 - Results

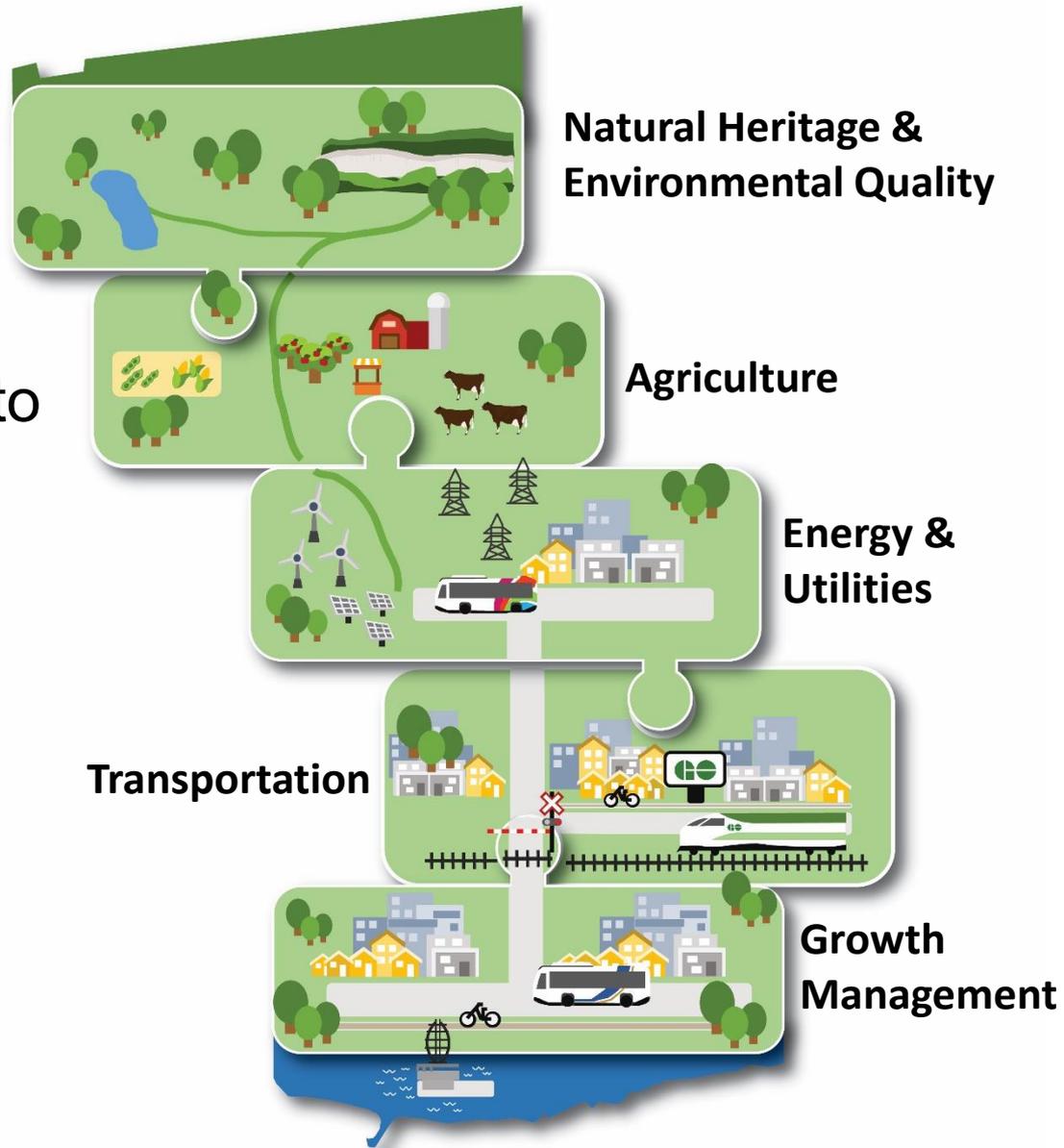
What are your interests in Climate Change? (Multiple Choice)



(68 of 68 Votes) 100%
Values rounded

A Land Use Response Policy Areas

We are applying a “Climate Change Lens” to policies across the Regional Official Plan to affect the way we grow, move and live in Halton.

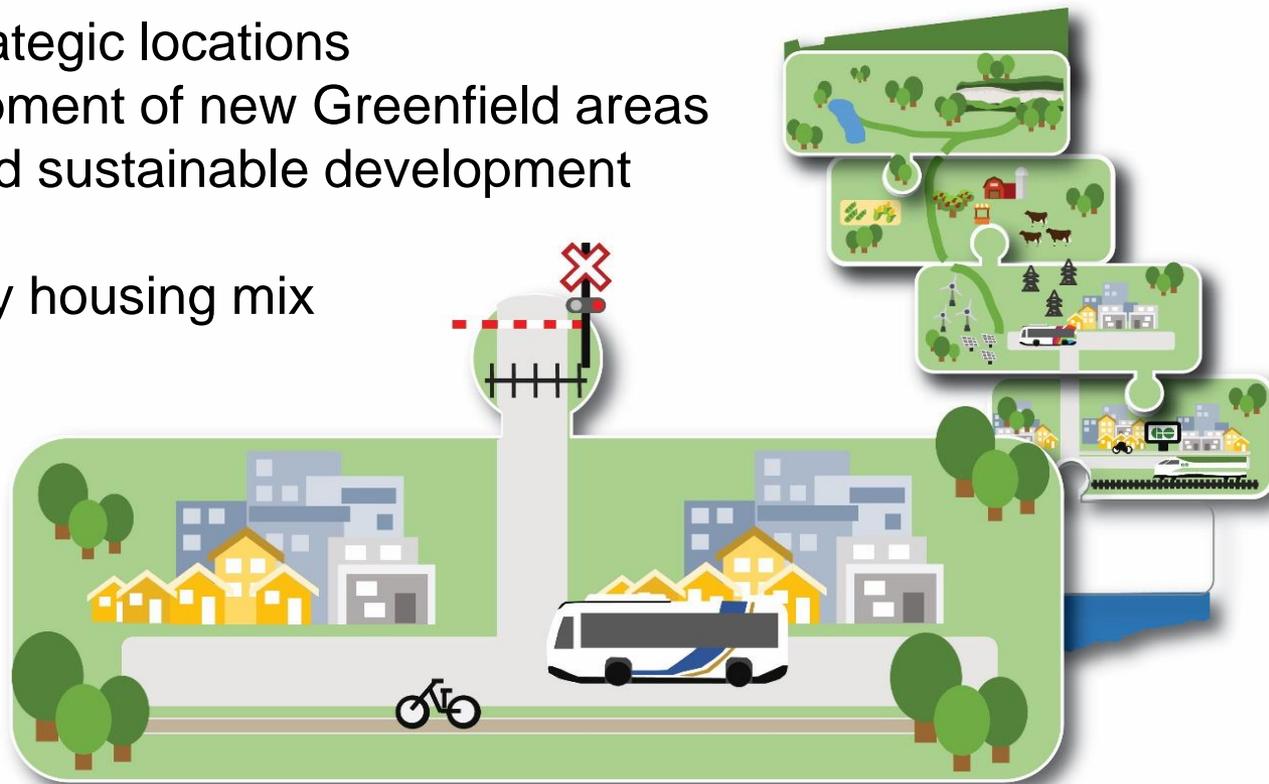


Growth Management

A Land Use Response

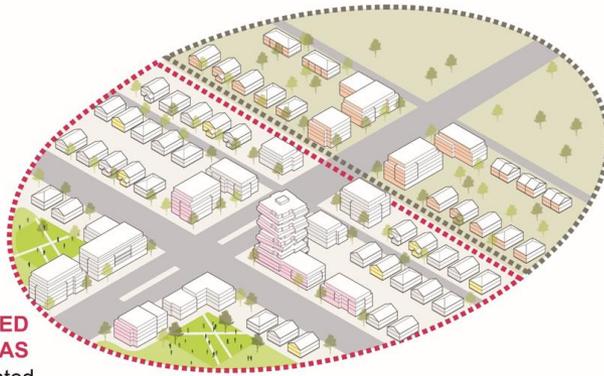
A climate change lens will help guide the Integrated Growth Management Strategy (IGMS) work in achieving complete and compact communities through:

- Intensification in strategic locations
- Sustainable development of new Greenfield areas
- Promoting green and sustainable development practices
- Supporting a healthy housing mix



Growth Management

Where Should Halton Grow?

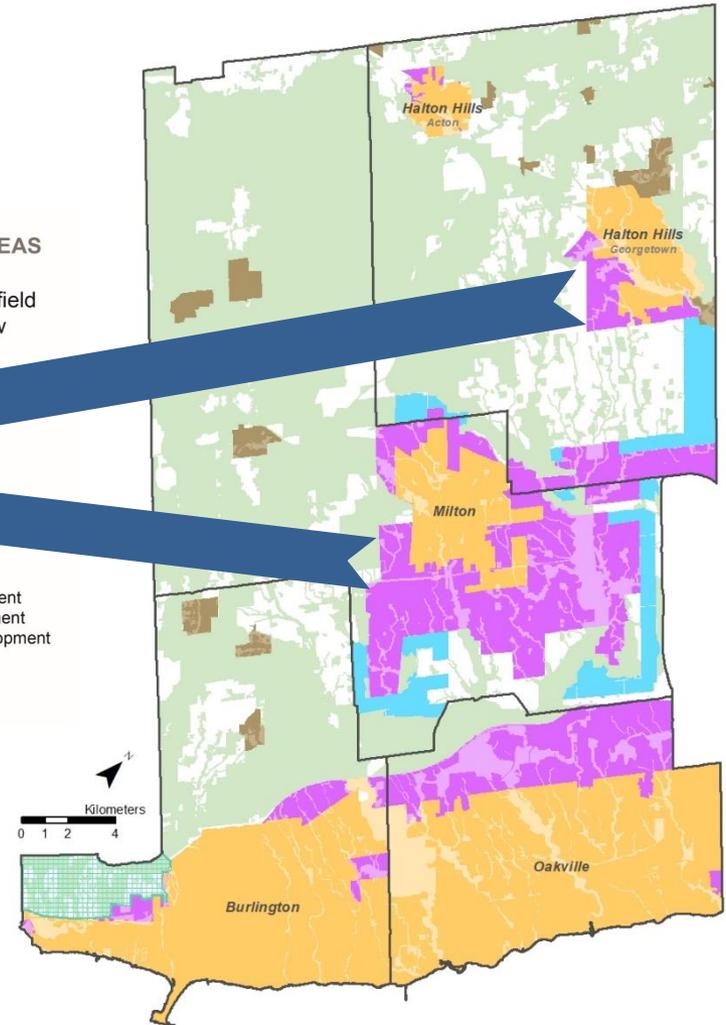


DELINEATED BUILT-UP AREAS

Growth to occur in Delineated Built-Up Areas through Intensification or Infill Development

DESIGNATED GREENFIELD AREAS
Growth to occur in Designated Greenfield Areas through New Development

- Intensification
- Infill Development
- New Development
- Existing Development



Settlement Areas

- Existing Designated Greenfield Area (DGA)
- Built-Up Area (BUA)
- Hamlet

Other Policy Areas

- Regional Natural Heritage System
- Future Strategic Employment Area
- North Aldershot Policy Area

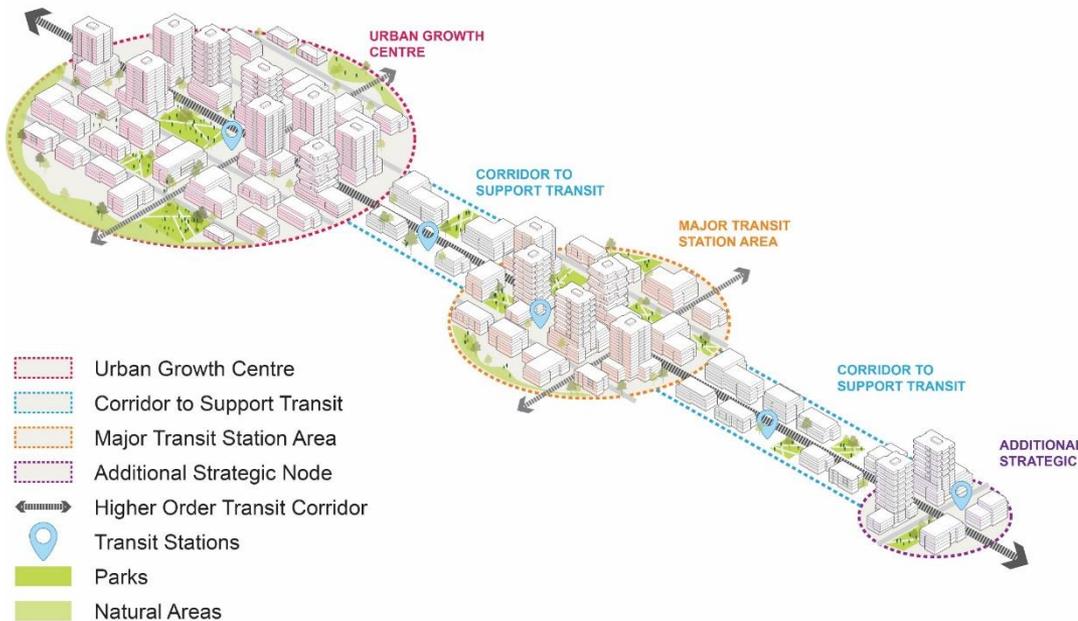
- Higher densities in strategic growth areas
- Connecting new Greenfield communities to existing communities



Growth Management

How Should Halton Grow?

- Mix and variety of housing within Growth Nodes and Intensification Corridors
- Compact patterns of development



Growth Management

How Should Halton Build?



Source: Ontario's Five Year Climate Action Plan, 2016-2020

Growth Management

How Should Halton Build?



Tannery Park, Oakville (Source: InsideHalton)



Street Trees in Milton (Source: Town of Milton)



Action Library Branch – LEED Gold Certified
(Source: Halton Region)



Burlington Waterfront (Source: tourismburlington.com)



What Could a Complete Community Look Like?



Malmö, Sweden
(Distribution of density; bringing water in (canal on left))
Source: www.masthusen.se



Dockside Green, Victoria, British Columbia
Integrated stormwater management townhomes and low rise built form
(inhabitat.com)



Malmö, Sweden
Townhome complex
Source: Taylor, 2017

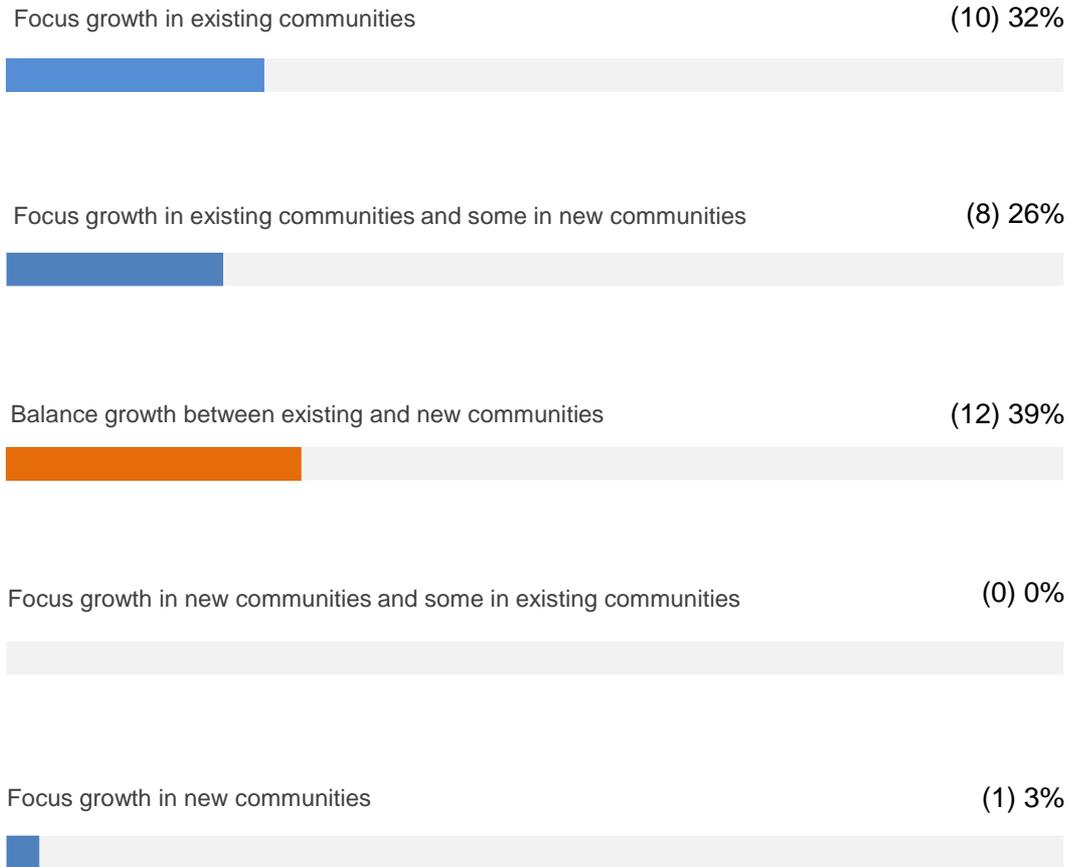
Participant Poll #3

Where do you think Halton should grow?

- a) Focus growth in existing communities
- b) Focus growth in existing communities and some in new communities
- c) Balance growth between existing and new communities
- d) Focus growth in new communities and some in existing communities
- e) Focus growth in new communities

Participant Poll #3 - Results

Where do you think Halton should grow?



(31 of 31 Votes) 100%
Values rounded

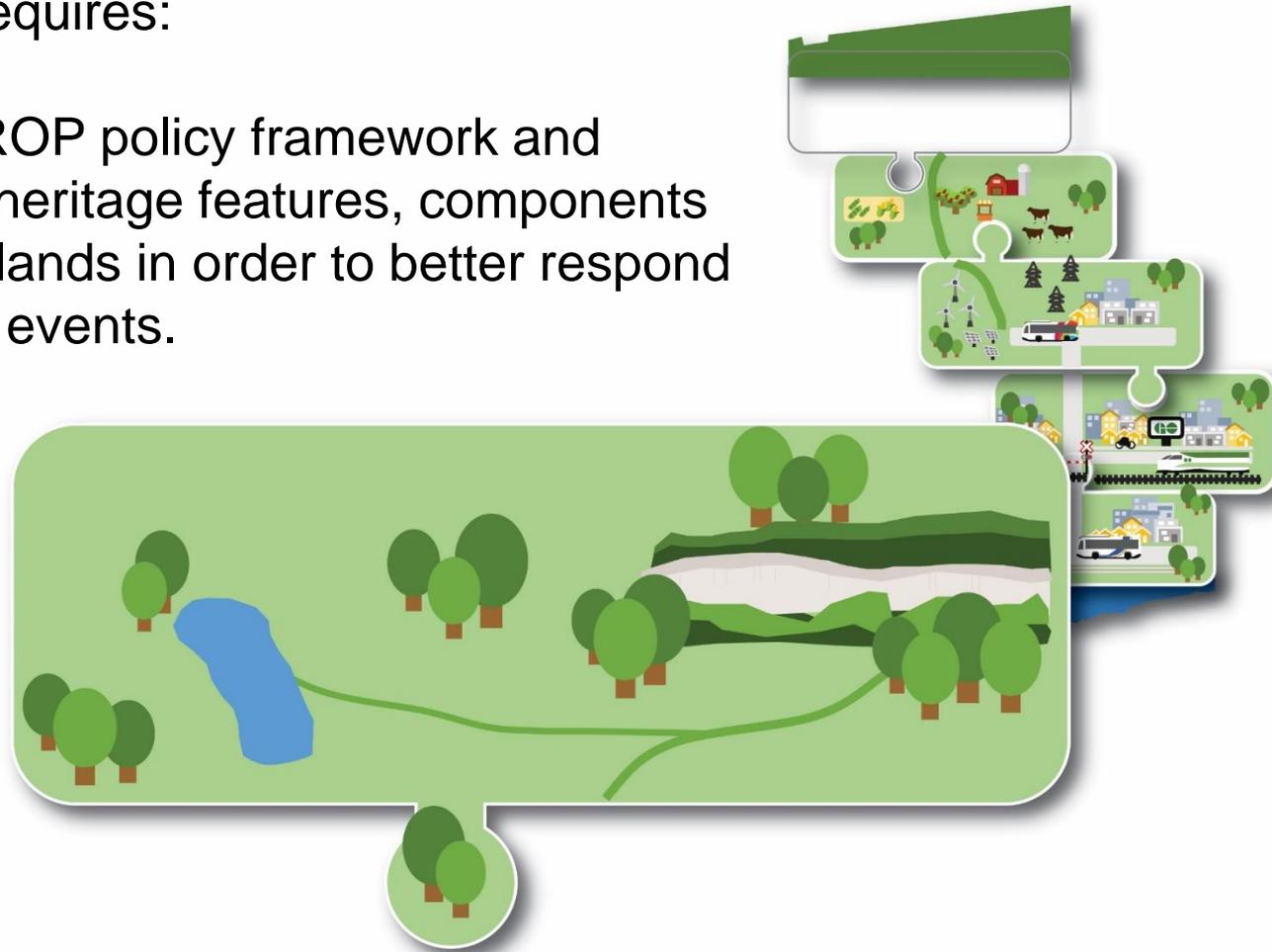


Natural Heritage and Environmental Quality

A Land Use Response

Protecting the natural environment which acts as a valuable carbon sink requires:

- Strengthening the ROP policy framework and mapping of natural heritage features, components and natural hazard lands in order to better respond to extreme weather events.



Natural Heritage and Environmental Quality

A Land Use Response



Source: Halton Region



Source: Halton Region



Before



After

Source: Conservation Halton, 2016

Prior to channel rehabilitation work in Lowville Park, this section of Bronte Creek was wide and shallow, with eroding banks and very little cover for fish. The more distinct riffle-pool and meander sequences established by the work will move the stream channel toward a balance of natural physical processes (sedimentation and erosion) that will improve water quality and habitat for aquatic life.



Natural Heritage and Environmental Quality

A Land Use Response

Figure 1.4.2 The impact of conventional urbanization on the hydrologic cycle



Source: U.S. EPA, 2007



Source: TRCA, 2014

Source: CVC, TRCA, 2010



Industrial & Commercial Lands

Residential Lands

Road Right of Ways

Public Lands

Source: CVC, 2013

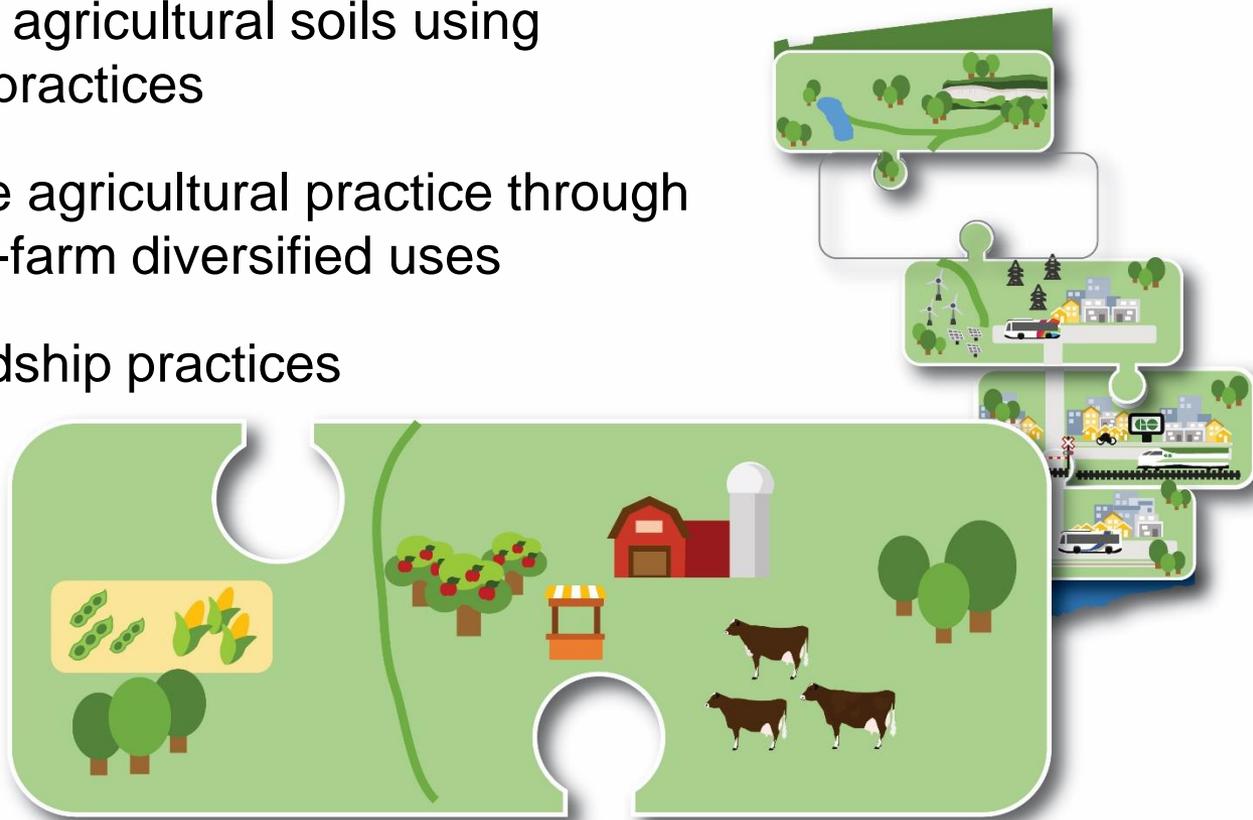


Agriculture

A Land Use Response

Supporting agriculture can reduce GHGs and the impacts of changing climate through the:

- Protection of healthy agricultural soils using sustainable farming practices
- Promotion of a viable agricultural practice through the permission of on-farm diversified uses
- Encouraging stewardship practices



Agriculture

Sustainable Agricultural Practices and On-Farm Diversified Uses



Home Industry



Farmers Market



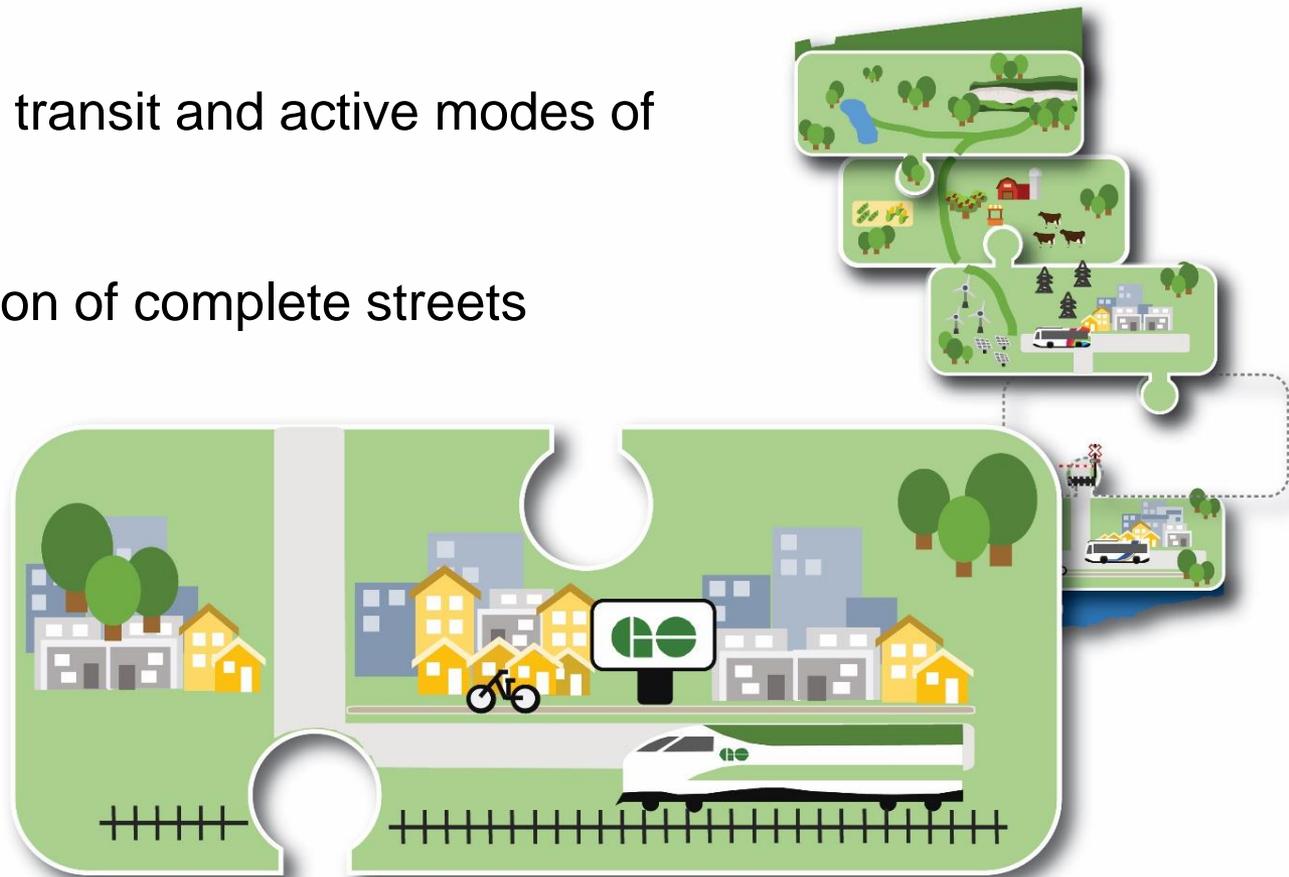
Agri-Tourism

Transportation

A Land Use Response

Automobile-dependence can be reduced through a land use response that:

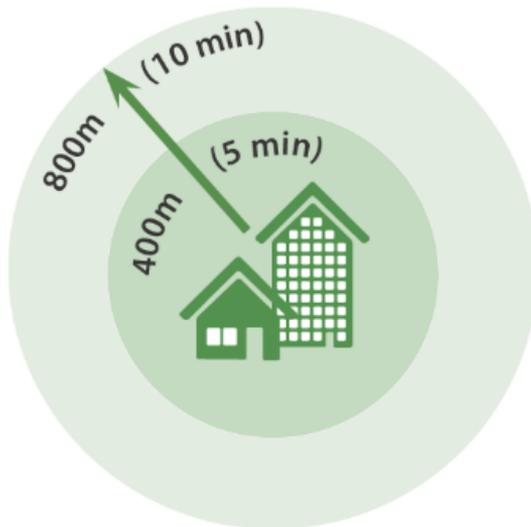
- Supports the use of transit and active modes of transportation
- Promotes the creation of complete streets



Transportation

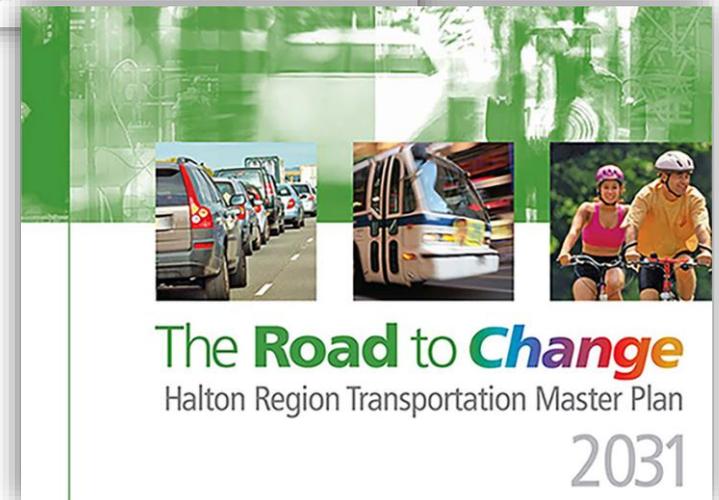
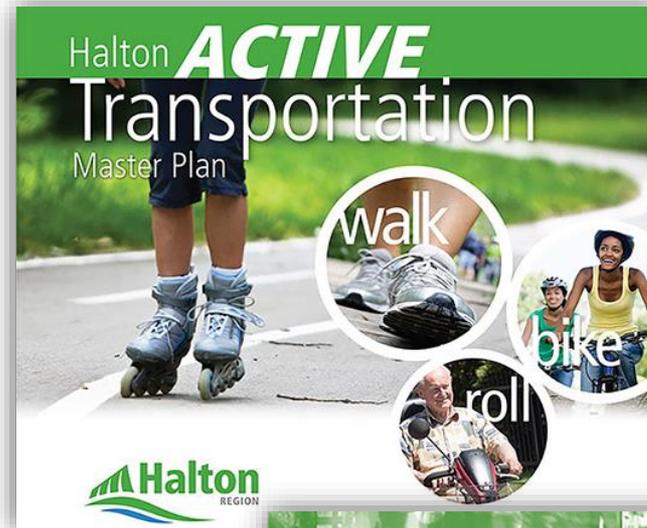
A Land Use Response

The 3 Ds: density, diversity, and design



People are more likely to use active transportation when destinations are within walking distance of homes and workplaces. A comfortable walking distance equals 5 - 10 minutes or 400m - 800m.

Source: Halton Region, Walkable Communities



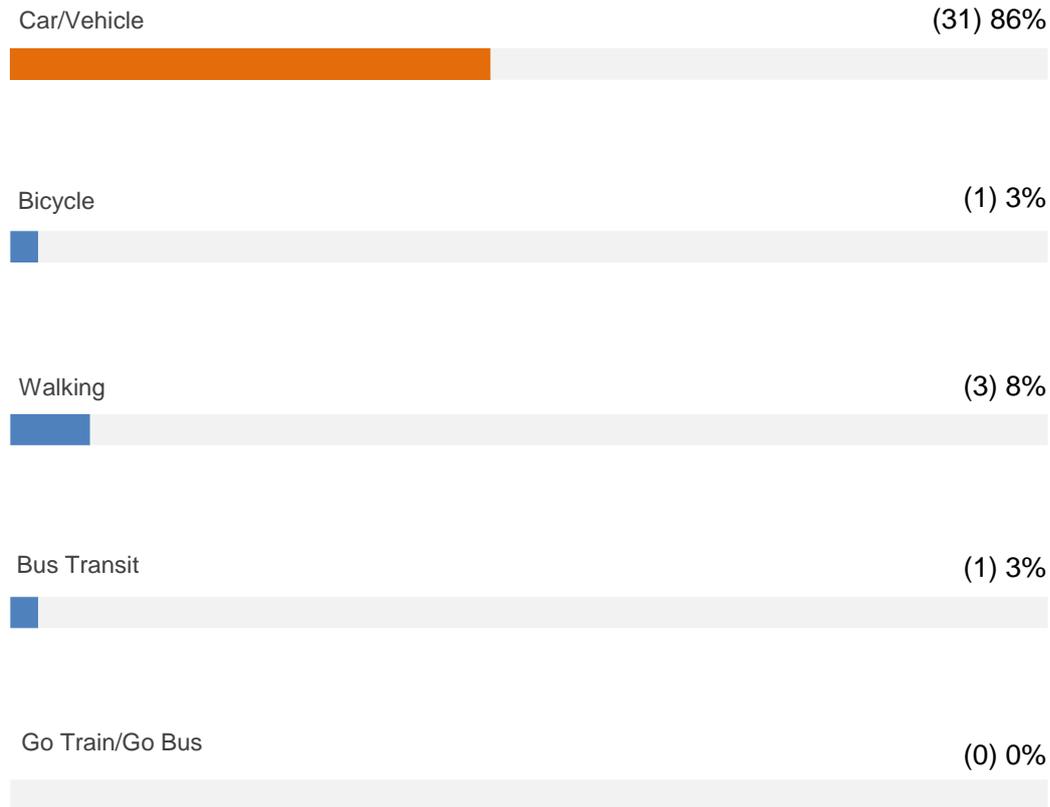
Participant Poll #4

What is your primary way of travelling in Halton Region?

- a) Car/Vehicle
- b) Bicycle
- c) Walking
- d) Bus/Transit
- e) Go Train/Go Bus

Participant Poll #4 - Results

What is your primary way of travelling in Halton Region?



(31 of 31 Votes) 100%
Values rounded

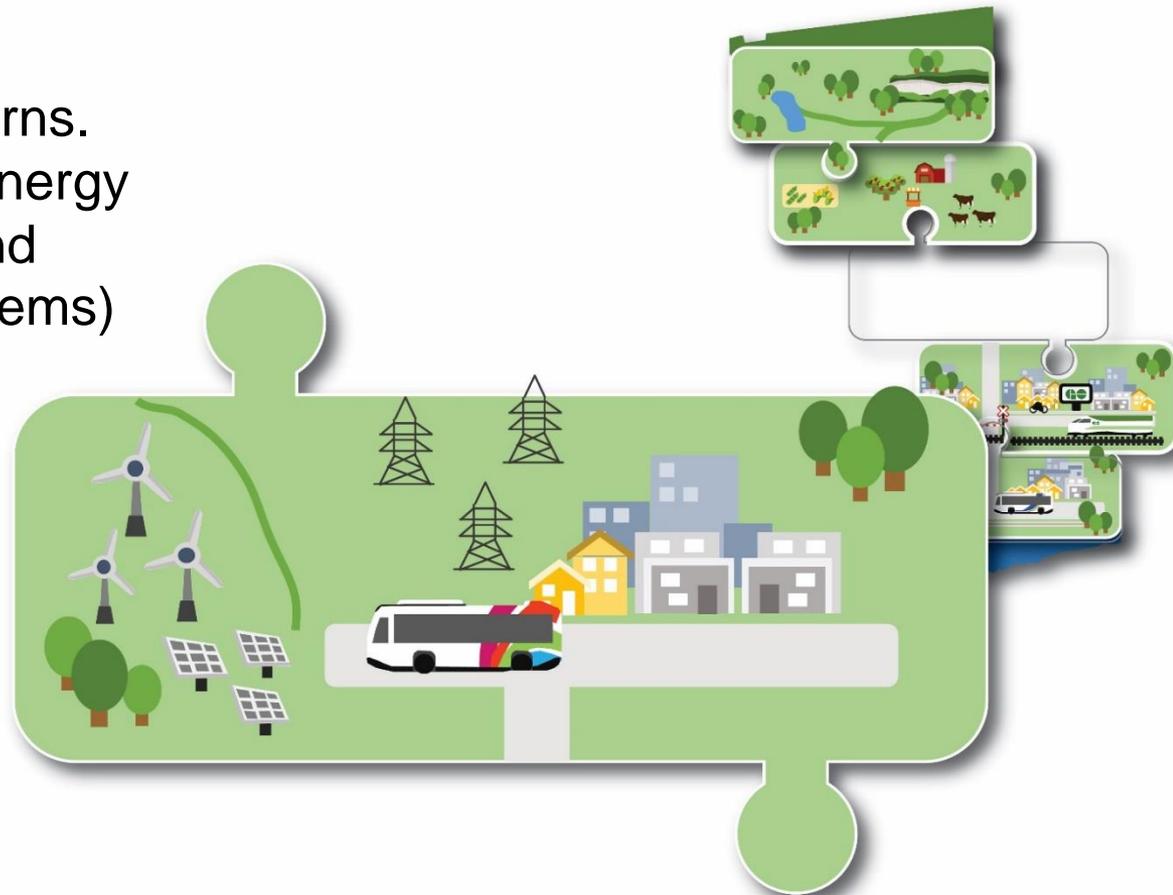


Energy and Utilities

A Land Use Response

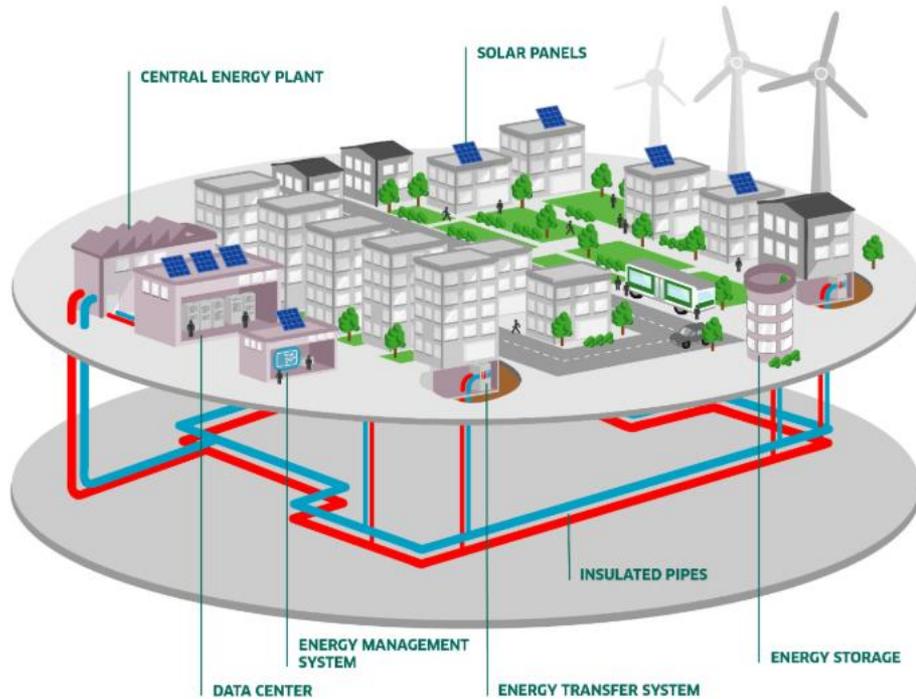
Conserving energy consumption and generation which significantly reduces GHG emissions can be reached through:

- Compact land use patterns.
- Alternative renewable energy systems (e.g. District and Distributed Energy Systems)



Energy and Utilities

A Land Use Response



Example of District Energy System
Source: www.engieservices.ca/district-heating-and-cooling



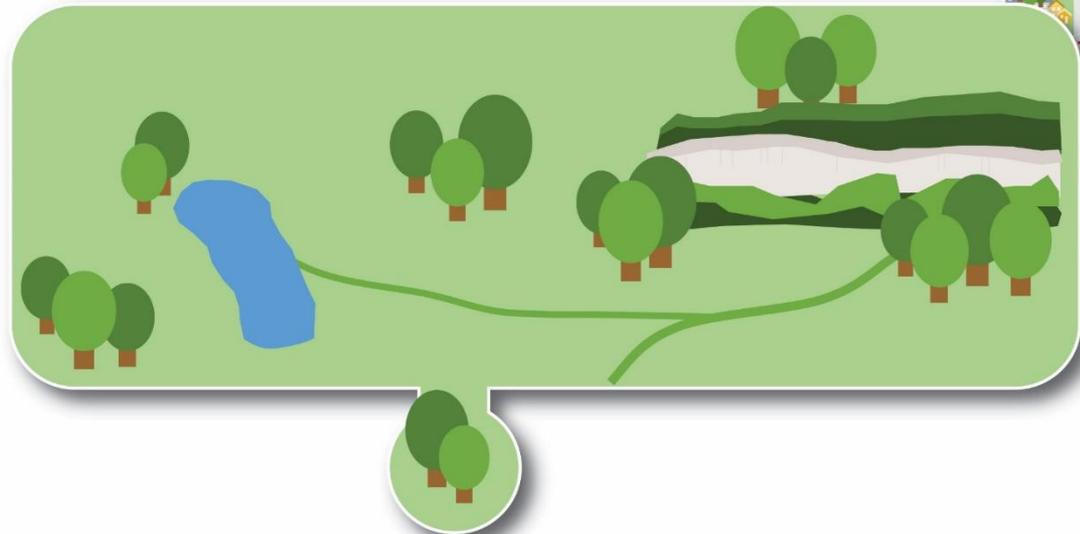
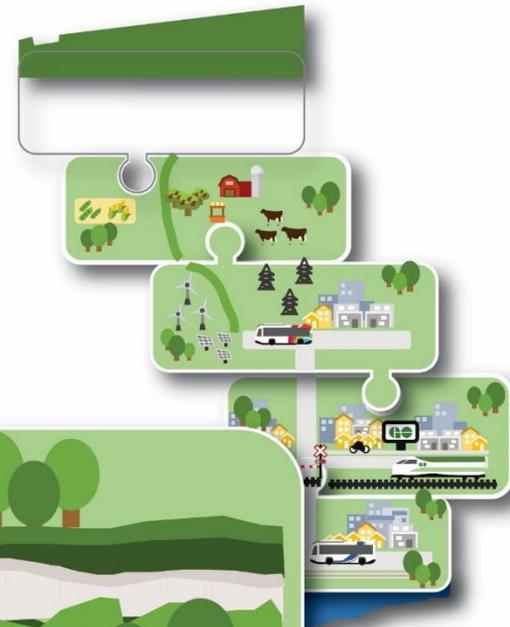
Electric Car Charging Station
Source: Toronto Star

Air Quality

A Land Use Response

Supporting urban forms to improve air quality through:

- Urban forms that reduce long distance trip-making and reliance on automobiles
- Promotion of active transportation and use of public transit
- Promoting compact built forms and nodes and corridors



Air Quality

A Land Use Response



Source: Conservation Halton

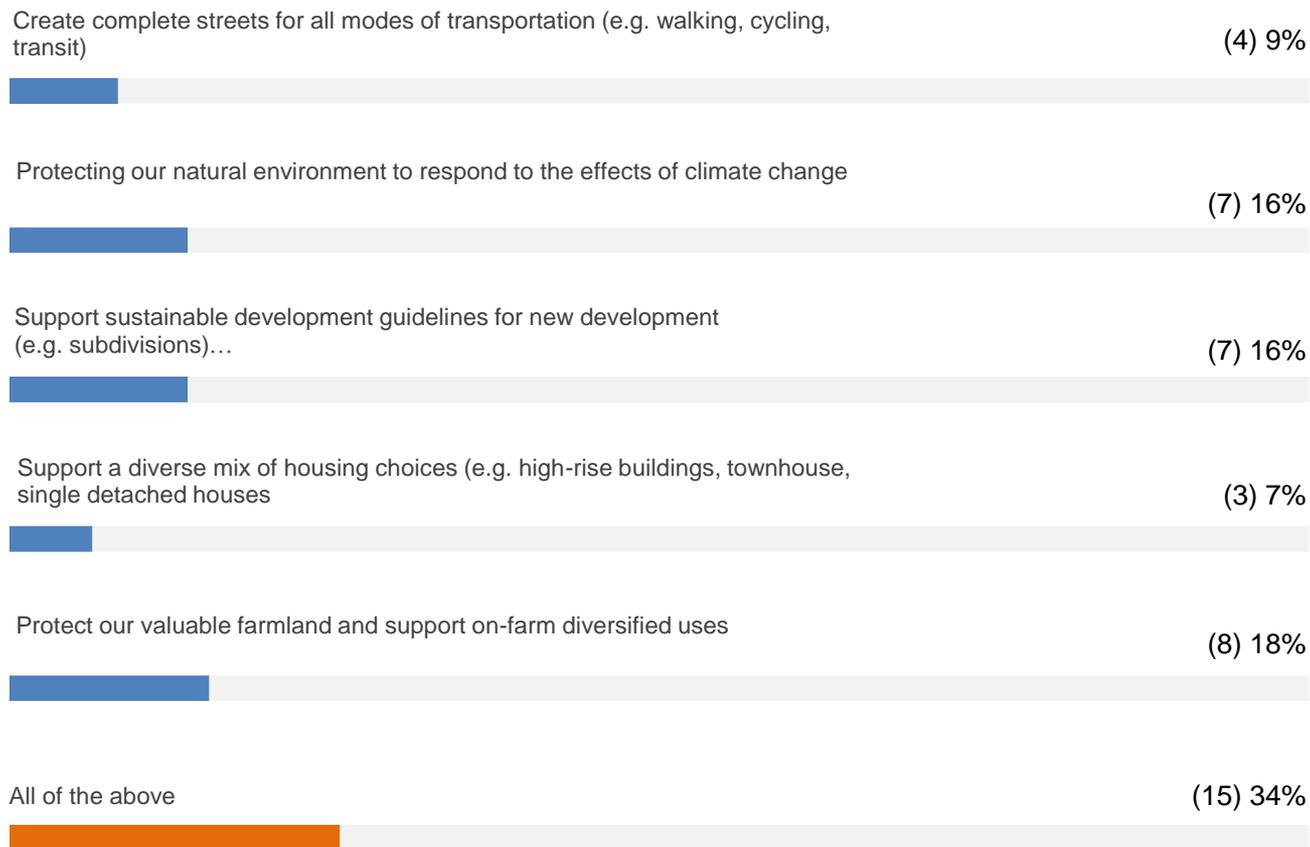
Participant Poll #5

What do you think are important land use responses that Halton Region can take to address climate change? (Multiple Choice)

- a) Create complete streets for all modes of transportation (e.g. walking, cycling, transit)
- b) Protecting our natural environment to respond to the effects of climate change
- c) Support sustainable development guidelines for new development (e.g. subdivisions)
- d) Support a diverse mix of housing choices (e.g. high-rise buildings, townhouse, single detached houses)
- e) Protect our valuable farmland and support on-farm diversified uses
- f) All of the above

Participant Poll #5 - Results

What do you think are important land use responses that Halton Region can take to address climate change? (Multiple Choice)



(44 of 44 Votes) 100%
Values rounded



Concluding Comments

Climate Change

- The Climate Change Discussion Paper :
 - Educates the public on the current impacts of climate change on the Region;
 - Underlines the policy directions guiding the Regional climate change conformity requirement; and
 - Highlights the main policy areas where public input is needed to formulate a comprehensive land use response to climate change.
- Intends to inform a fulsome and robust policy discussion, there are no predetermined conclusions.
- Facilitates the exploration of ideas in the context of broad public engagement, where all relevant options are explored.
- Regional staff are currently engaging with members of the community, stakeholders, and partner agencies to gain input on ideas and options outlined in the Discussion Paper.

Community Engagement

Virtual Public Information Centres (Start at 7pm):

- Sept. 3 – Climate Change
- Sept. 9 – North Aldershot Planning Area
- Sept. 10 – Regional Urban Structure / Integrated Growth Management Strategy
- Sept. 17 – Rural and Agricultural System & Natural Heritage System

Website: www.halton.ca/ropr

- Download the 5 Discussion Papers
- Complete Questionnaires

Email: ropr@halton.ca

Telephone: 311



We Want to Hear from You!

Leilani Lee-Yates

Senior Planner, Environment, Planning Services

leilani.lee-yates@halton.ca

Website

www.halton.ca/ropr

Email

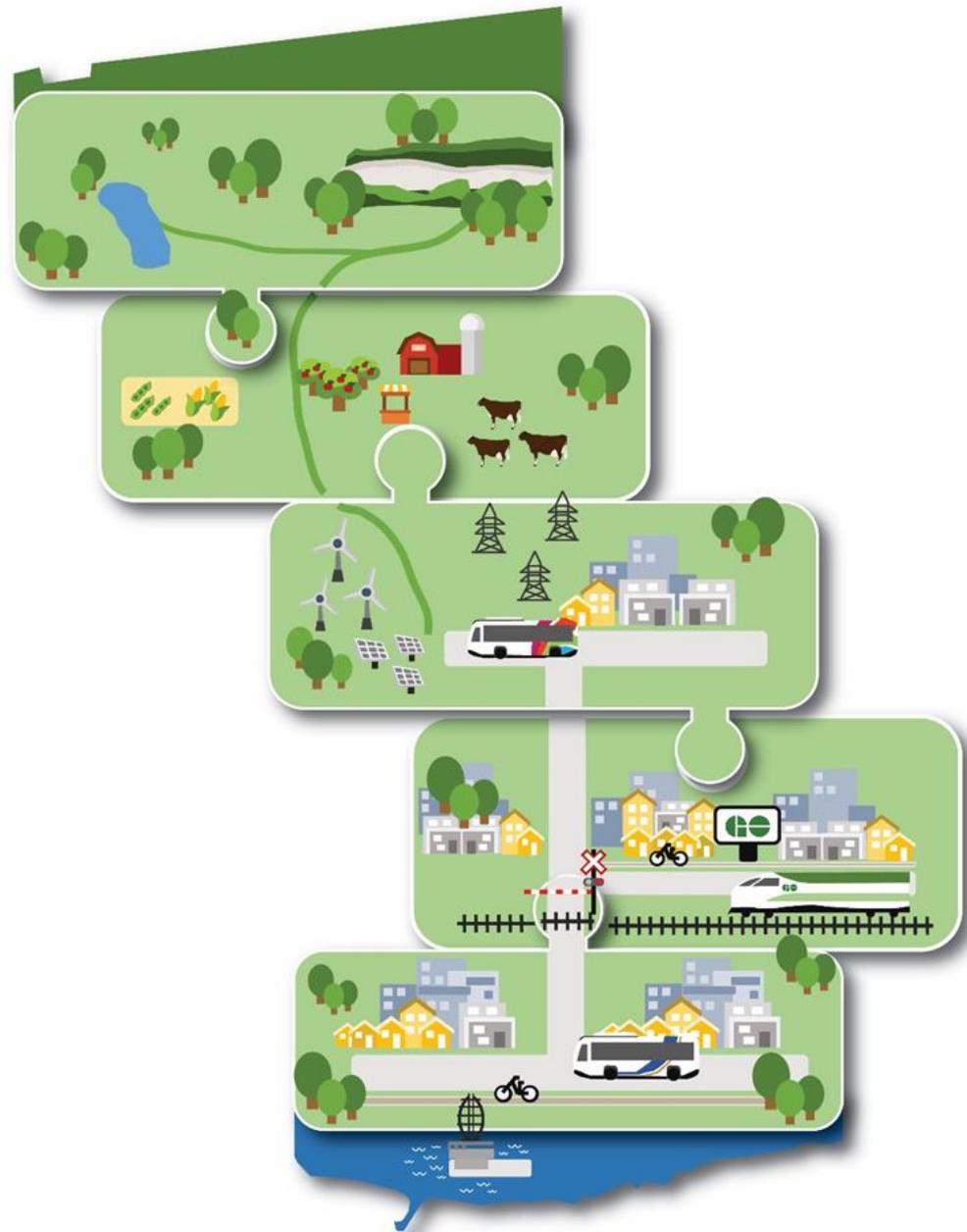
ropr@halton.ca

Telephone

311



Questions?



Community Engagement

Virtual Public Information Centres (Start at 7pm):

- Sept. 3 – Climate Change
- Sept. 9 – North Aldershot Planning Area
- Sept. 10 – Regional Urban Structure / Integrated Growth Management Strategy
- Sept. 17 – Rural and Agricultural System & Natural Heritage System

Website: www.halton.ca/ropr

- Download the 5 Discussion Papers
- Complete Questionnaires

Email: ropr@halton.ca

Telephone: 311



We Want to Hear from You!

Leilani Lee-Yates

Senior Planner, Environment, Planning Services

leilani.lee-yates@halton.ca

Website

www.halton.ca/ropr

Email

ropr@halton.ca

Telephone

311

