

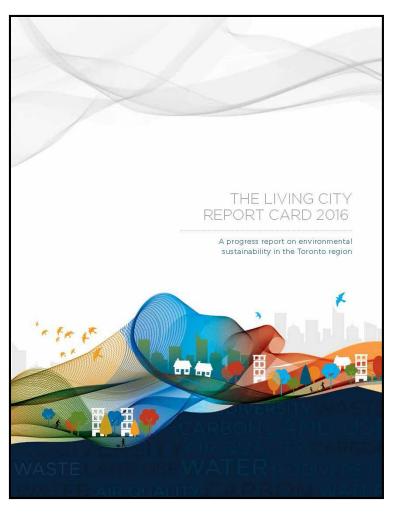
## THE LIVING CITY REPORT CARD 2016



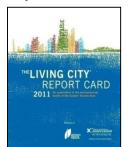




## **The Living City Report Card 2016**



- Environmental sustainability
- Inaugural report 2011
- 5-year progress update
- Retained 2011 themes, indicators, and methods



Describes recent successes in the region and what we still need to do





















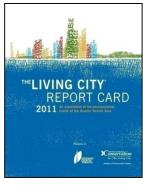
## **Toronto City Summit Alliance**

Multi-sector coalition working to meet the Toronto region's challenges



## **Greening Greater Toronto**

Coalition of >100 multisector partners aimed to make the GTA the greenest city in North America



#### The Living City Report Card 2011

Report on the environmental health of the GTA



#### **Evergreen**

GGT transferred from Civic Action to Evergreen



## The Living City Report Card 2016

Progress report on the actions and outcomes related to GGT/LCRC

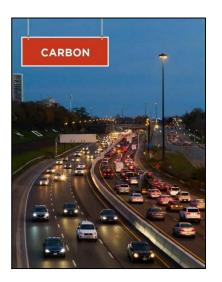
2007

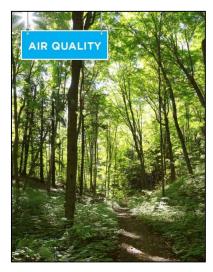
2008

2011

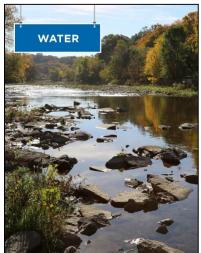
2014

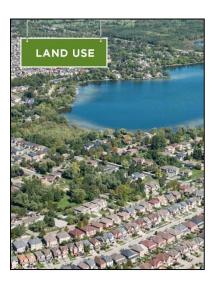
2016



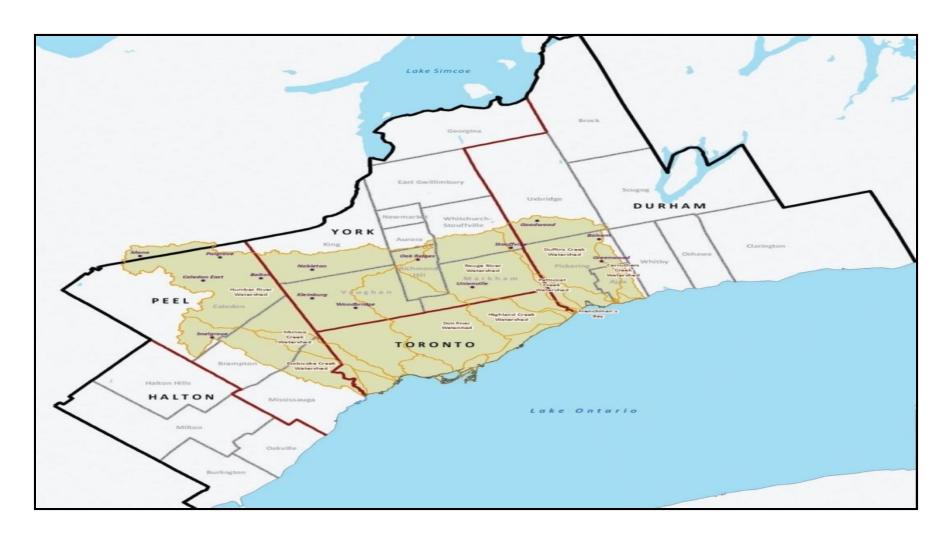






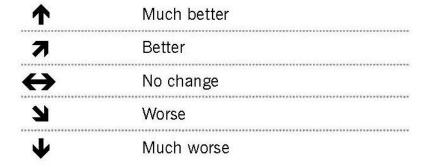


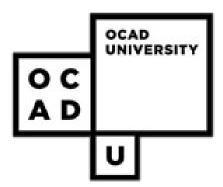






- 15 indicators
  - Mix of quantitative analysis and expert opinion
- Assessed short- and long-term targets but no grades
- 3 topics:
  - The Current Situation
  - What Needs to be Done
  - What We are Doing
- Infographics by OCAD
   University Resilience Design
   Lab



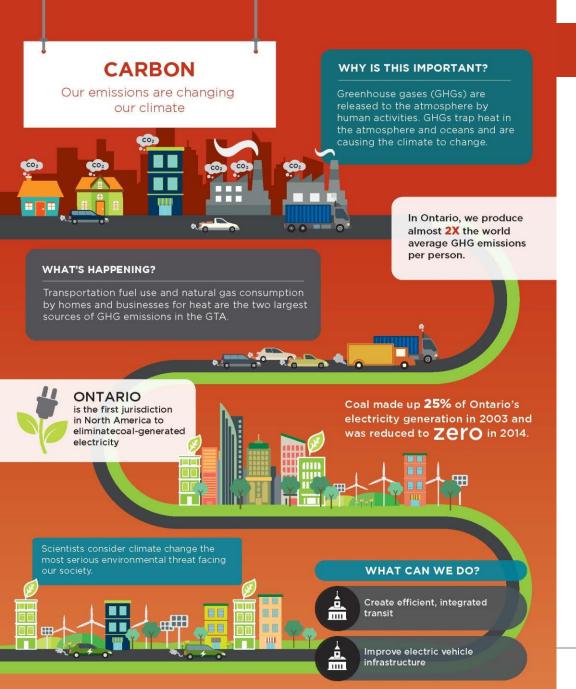




- Largest GHG sources:
  - Transportation fuel use
  - Natural gas consumption by homes and businesses for heat.
- Eliminated coal-generated electricity

- Adopt provincial and national policy at the local level.
- Improve public transportation and encourage alternative transportation.





#### AIR QUALITY

Improving air quality improves our health

#### WHY IS THIS IMPORTANT?

Air pollution causes health effects such as respiratory illness and cardiovascular disease that affect our quality of life and strain the

#### WHAT'S HAPPENING?

Burning fossil fuels, such as gasoline when we drive our vehicles, sends pollution into the air which contributes to poor air quality.



Most common air pollutants have **declined** across Ontario. But, the declines might not be apparent at the local level. Local air quality monitoring is needed.

## 0= 0



The number of smog days in the GTA have decreased over the last decade.

2005 2014

#### WHAT CAN WE DO?



Local air quality monitoring



Improve public and active transit infrastructure



#### **Current situation**

- Large-scale air quality improvement, decreased number of smog days.
- Air quality can differ by neighbourhood, currently limited air quality data at local scale.

- Improve air quality monitoring at the local scale.
- Improve public transportation and encourage active transportation.



Improve recycling options

across the GTA

#### Waste (GTA)



#### **Current situation**

- The % of residential waste being diverted has remained steady around 50%.
- ICI waste was not evaluated.

- Improve residential recycling, particularly in multi-unit residential buildings (MURBs).
- Improve textile recycling.









Terrestrial Biodiversity (TRCA)

PROGRESS

Almost

PROGRESS

Almost

Natural Cover (TRCA)



2016 TARGET MET almost



#### WHAT'S HAPPENING?

polluted. In many parts of the GTA,

Invasive fish such as the Round Goby and Grass Carp have been found

WHY IS THIS IMPORTANT?

Sensitive stream fish such as Redside Dace and Brook Trout have limited distribution due to urbanization.

#### WHAT CAN WE DO?



Fish biodiversity in Lake Ontario

Improve stormwater management

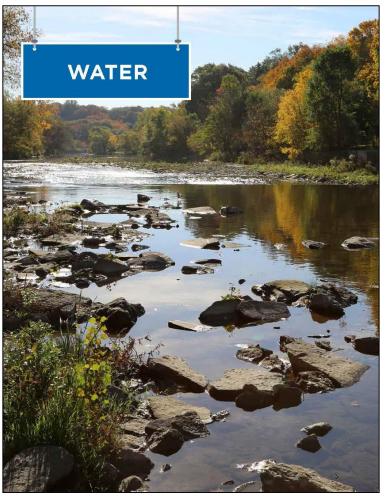
Protect/restore coldwater streams

#### **Current situation**

- Tolerant fish may be replacing more sensitive species.
- Development near headwaters may threaten sensitive species. Water pollution (including warm water) an issue.

- Stormwater controls to preserve or improve water quality.
- Protect/restore coldwater streams.





Water Quality (TRCA)

 $\leftrightarrow$ 

PROGRESS TARGET MET

**Stormwater Management** (TRCA)



2016 TARGET MET

Flood Risk (TRCA)



2016 TARGET MET

Water Consumption (GTA)

PROGRESS

We need to do a better job managing stormwater

65% of urban areas don't have modern stormwater control

#### WHY IS THIS IMPORTANT?

Effective stormwater control helps prevent flooding and manages water quality.

#### WHAT'S HAPPENING?

Storm water rushes off roofs, sidewalks, and parking lots into pipes which discharge into streams.

Without proper stormwater management, we risk:

- Flooding
- Erosion
- Water pollution
- · Degrading habitat
- Degrading ecosystems

LID filters, evaporates, cools, and retains stormwater runoff instead of going directly into streams. Techniques include rain gardens and permeable pavements.

#### WHAT CAN WE DO?



Invest in better stormwater management



Develop policy to require green infrastructure, including LID

## Stormwater Management (TRCA)



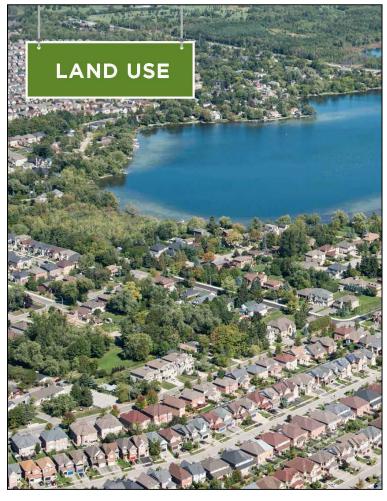
#### **Current situation**

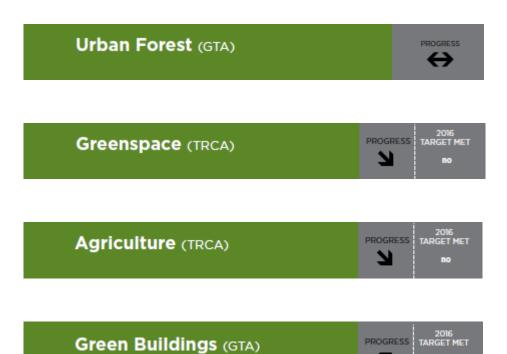
- Only 35% of urban areas are served by stormwater controls to manage water quality and prevent flooding.
- Current status quo SWM is not enough, need innovation

#### What needs to be done

 Innovative stormwater controls, with particular emphasis on Low Impact Development (LID) design.







Intensification (GTA)

PROGRESS

# URBAN FOREST City trees provide vital environmental services WHAT'S HAPPENING?

The invasive pest, the emerald ash borer is killing tens of millions of trees across the province, including many in the GTA. Climate can also affect the urban forest, including ice in the winter and drought in the summer.



77777 = 2

10 or more trees on a city block significantly decreased cardio-metabolic conditions

34.2 MILLION trees in the GTA.

\$14 BILLION to replace them.

#### WHY IS THIS IMPORTANT?

The urban forest helps to:

The urban forest - is a critical

WHAT CAN WE DO?

to increase diversity

Develop and champion policies that protect and expand the urban

Expand municipal tree planting lists

component of our green

infrastructure.

- Remove pollutants from the air and water
- Reduce stormwater runoff
- Cool communities and save energy
- Improve public health and wellbeing
- Provide recreation opportunities

#### **Urban Forest (GTA)**



#### **Current situation**

- The urban forest is a key part of urban infrastructure.
- Several municipalities have adopted urban forest management plans.
- Insect pests and extreme weather events have affected structure.

- Increase diversity to build resilience.
- Need to plan for the impacts of climate change.
- Urban forest studies should be repeated at regular intervals.



## **Conclusions and Looking Forward**

- i. Standardized City Sustainability Data (by World Council on City Data)
  - How standardized data can help cities and regions move forward on sustainability, including benchmarking performance against peers.

## ii. Think Global, Act Regional (by Jeb Brugmann)

 Why a regional approach to sustainability is necessary to achieve meaningful progress, including how regional sustainability tracking, reporting and benchmarking is critical to success.







## **Conclusions and Looking Forward**

## iii. Collective Action in the Golden Horseshoe (by Evergreen)

 Forming and operating multi-sectoral regional alliances to help accelerate progress on regional sustainability

## iv. Concluding thoughts (by TRCA)

- There is much action on sustainability in the Toronto region and there are many local successes
- We need to collaborate more effectively as a region, across municipal boundaries, across issues and across sectors, to scale up our successes

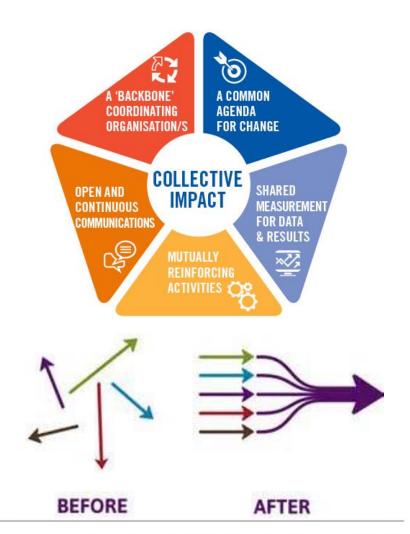






## **Regional Reporting and Collective Impact**

- To help think and act as a Toronto region on environmental and sustainability issues
- To support coordination and collaboration for collective impact
- To create and sustain
   learning in the region about sustainability successes and challenges





Feb 10

Digital Report Complete

Feb 17

Report Card Website Complete

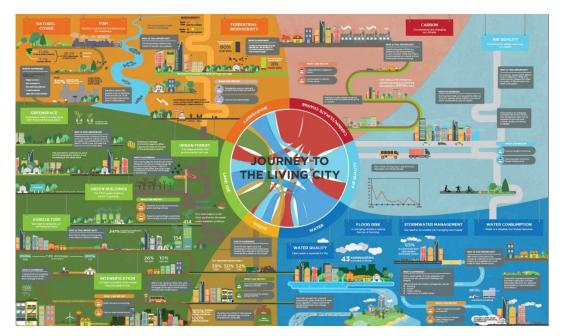
Feb 24

Launch at TRCA Annual General Meeting

March – December Communications



- www.reportcard.trca.ca
- Social media 1 month campaign
- "Big ideas" publications, talks and panels about accelerating collective action for sustainability in the Toronto region (with Evergreen, CivicAction, and others)





## **Next Version of the Living City Report Card**

 University of Waterloo interviews & Greening Greater Toronto (GGT) review process provided insights

#### **Future Framework Ideas:**

- Ongoing evaluation and reporting tool
- Re-assess indicators
- Mapping and tracking the network of stakeholders, including an evaluation of the strength and connectivity of those networks.
- Tracking both activities and outcomes in the region
- Benchmarking our regional performance against peer city-regions around the world.
- Profiling successful initiatives that should be scaled and replicated in the region.



## Thank you

#### **Our Contact Information**

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