

**Circular Economy Working Group Meeting 2**  
**July 17, 2019**  
**St. Paul's Bloor Street**

**Welcome, Agenda & Objectives**

**Robyn Shyllit** welcomed the group to the meeting and invited the group to do roundtable introductions before introducing the agenda. All attendees stated their name and affiliation.

**Robyn Shyllit** asked members to check in on the GROW goals that were set in the first meeting with a partner.

**Meeting 1 - What we heard, Solid Waste Management Services Update**

**Meaghan Davis** Acting Manager (Circular Economy and Innovation) presented the update.

**Single-Use Item Public Consultation Update**

**Charlotte Ueta** Acting Manager, Waste Management Planning, presented the City's work on the reduction of single-use and takeaway items.

**Robyn Shyllit** moderated the question and answer period.

**Member Question:** How is Toronto fitting its plans in with federal and provincial programs of harmonization?

**Charlotte Ueta** responded that the municipal, provincial, and federal governments are all aligned when it comes to plastic reduction - not just in the Canadian government context, but internationally as well. The United Nations and other international bodies are looking at plastics reduction. From a political climate perspective, this is the right time to be doing it. If you are not creating waste, you do not need to manage it down stream. Having social and behavioural change and focusing on reducing these items through not using them, or finding a more durable material, speaks towards the goals and principles of circular economy and goes towards the waste hierarchy of reduce, reuse, and recycle.

**Member Question:** Who was the survey sent to?

**Charlotte Ueta** responded that the survey was sent to the Long Term Waste Management Strategy listserv (Waste Strategy) and the Stakeholder Advisory Group, which was a group that helped to inform the development of the Long Term Waste Management Strategy. It was also distributed by other City divisions (from LiveGreen, for example), organizations, networks, and through social media. There was also extensive online digital advertising.

**Member Question:** What the City is doing to support infrastructure improvement? There should be more punitive mechanisms because the infrastructure in her building prevents proper sorting.

**Charlotte Ueta** clarified that work is ongoing regarding the development of the work plan for the single-use and takeaway item reduction strategy. Phase one consultation in the fall of 2018 generated a general idea of what residents feel comfortable doing and their comments as to when a mandatory approach should be taken. The City is also trying to balance other socioeconomic factors, for example ensuring that punitive measures do not cause financial hardship on the individual or retailer. Regarding chutes, infrastructure and technology in buildings, Solid Waste Management Services works with City Planning on developing guidelines, and there are multi-residential redevelopment and new development guidelines. In multi-residential buildings (including apartments and condominiums), an example could be making sure that recycling and green bin composting is as accessible as garbage disposal.

**Member Question:** Has there been any exploration to promote reusable food containers? A member indicated that the reusable coffee cup is common, and businesses are used to it.

**Charlotte Ueta** responded that they have reviewed examples of programs and systems in other jurisdictions where they promote reusable food containers for takeaway. There has been discussion with other City divisions, such as Toronto Public Health, around food safety and handling. If there are examples that you are aware of, please forward them as that is the feedback we are looking to receive.

**Member Question:** Is there movement to coordinate better with the Province? A member indicated that they work with the live music sector in Toronto. One of the festivals they work with is at Ontario Place, which is provincially owned. All waste generated at Ontario Place is thrown into the landfill including organics and recycling and, although alternatives have been considered, none have been put into place. There are 10,000 people that come through every weekend and everything goes to the landfill.

**Charlotte Ueta** responded that the current consultation won't be looking at items like this. However, there is another City Division that is looking to reduce plastics in City-owned spaces.

**Member Question:** Is there any effort towards the reduction of plastic water bottles?

**Charlotte Ueta** responded that the City does have a policy that City facilities (Parks and Recreation facilities, for example) do not sell plastic water bottles, and it has been in place for quite some time. Plastic water bottles have come up through consultation.

### **City Structure and Decision Making**

**Jennifer Forkes** from the City's Clerks Office and **Brendan Nolan** from the City Manager's Office presented on City Structure and Decision Making.

**Robyn Shyllit** moderated the question and answer period after the presentation.

*For a description of Council Advisory Bodies and Program Advisory Body, please find a description at the end of this document.*

**Member Question:** Are any advisory committees that report directly to Council?

**Brendan Nolan** responded there are a variety of advisory bodies that exist for different purposes, and some are created to help advise the work of City Council on specific issues and/or subject areas. City Council receives the work of Council Advisory Bodies (CABs) through the Standing Committees of City Council. The CAB model is a formal, structured committee that is for a narrow purpose and a set amount of time, and they report to a Standing Committee. Their role is to provide advice and input to Members of Council around narrow issues. CEWG is a Program Advisory Body (PAB), which is a different form of City advisory body.

**Jennifer Forkes** responded that Council has established five CABs and has decided that these ones will provide direct advice to specific Standing Committees of City Council.

**Member Question:** Are there any requirements or recommendations that Council Advisory Bodies would have an environmental lens?

**Jennifer Forkes** responded that currently City Council has established five CABs that included Terms of Reference approved by Council. None of the CABs established to date have a specific environmental lens included in their Terms of Reference.

**Member Question:** Are there any provisions that would enable CEWG to make a recommendation to that advisory body about environmental issues, given the fact that TransformTO touches all aspects of businesses and residents?

**Jennifer Forkes** responded that this question speaks to how the terms of reference of the bodies are developed, and they are developed based on Council's desire to have specific advice in those areas. At the time the current terms were established, that was not something put in. That is not to say that the Terms of Reference of a CAB could not be amended, but doing so would require City Council to approve any amendments to a Terms of Reference following a formal process similar to the one previously outlined. As a Program Advisory Body (PAB), the CEWG is encouraged to work with City staff to bring forward any recommendations to policy staff supporting the CABs for consideration and coordination.

**Member Question:** Can you explain how the Advisory Councils relate to where we are now?

**Jennifer Forkes** directed members' attention to slide 37 on the PowerPoint presentation. The advice that members are providing and feedback on policies involves working within their expertise to help determine what kinds of programs will bring more circular economy activity to the City. If they require a by-law, then City staff can take member feedback and bring it forward. When it comes to City Council, they may be directed to come back and report after a year's time on how things are going, relying on member input to shape the next generation. The role of members is to help shape what will be brought to legislative process.

## **Interdisciplinary Panel: Circular Economy across City Divisions Panel Discussion**

Presentations were delivered by:

**Charlotte Ueta**, Acting Manager, Waste Management Planning

**Linda Swanston**, Program Manager, Energy and Environment Division

**Rob McMonagle**, Sector Development Officer, Economic Development

**Shayna Stott**, Planner, City Planning

**Member Question:** Is there a requirement for food security options that could be worked into building requirements, for instance bee hives?

**Shayna Stott** responded that there is always flexibility in terms of the design. Urban rooftop farming has been incorporated into many green roofs. A challenge in setting a mandatory requirement is around urban agriculture use, and having a group take ownership. There isn't anything in the regulation that prevents it. If there is interest within a community or building to support food production, it is something that could be incorporated into the design.

**Member Question:** Are there plans in the zoning by-laws or the Toronto Green Standard for low-carbon developments life cycle analysis? It was mentioned that there was construction demolition waste recycling in Tier 1 of the Toronto Green Standard. What is the compliance for that? If a new development comes into play and is scheduled for construction for T3, do you let them know how to achieve higher levels in the program?

**Shayna Stott** responded that the challenges for a lot of the materials in construction waste is that we don't have the typical regulatory authority, therefore, construction waste management is in Tier 2, and is a core requirement for anything going through incentive programs. Similarly, life cycle analysis is not something we are able to require for all new developments. How we treat them under our incentive programs is something that needs to be considered further. For the incentive programs, it is a rigorous process where they need to enroll in the program while they are going through the planning process, to ensure that it is part of the plan and documentation submitted to the City. There is an independent third-party review, they then go to the site and verify and that involves documenting. There is a lot of detail in the Toronto Green Standard, so if interested visit the website.

**Member Question:** A member asked for the presenter to address lifecycle emissions. With the increasing proliferation of digital fabrication of 3D tools such as laser cutting and 3D printing, there is a potential for a flip in production methods from distributed manufacturing to distributed design. Has the idea come up at all, and is the idea feasible?

**Linda Swanston** responded that she has not thought about digital fabrication previously. The areas of opportunity that are mostly being identified are around food, construction and electronics. **Rob McMonagle** responded that he has looked at 3D printing and its impact on the environment, and suspects that its very energy and resource intensive, and these things need to be balanced.



**Member Question:** Is the City looking to not only identify what currently exists, but also the gaps?

**Rob McMonagle** responded that yes, we are actually in the process of compiling an online directory of companies that are in the green sector, and are encouraging companies to register.

**Member Question:** Are overseas emissions of textiles in landfills being counted?

**Linda Swanston** responded that any emissions coming from the City of Toronto landfills are counted. Transportation emissions associated with textiles would only be counted if the truck was driving from the border of the City of Toronto to the distribution area.

## **Activity 2 CE Engagement Strategies**

**Robyn Shyllit** introduced the group activity. Members reported back on group work documented in charts at each table.

### **Group Work**

#### **Built Environment**

<b>CE Opportunities</b>	<b>CE Challenges</b>	<b>How could CE information be best communicated to/within/about sector</b>
<ul style="list-style-type: none"> <li>- Participation within sectoral tiers</li> <li>- Energy and interest from management and opportunities (need tools and resources)</li> <li>- Transparency and communication</li> <li>- Status and profile for building</li> <li>- Employment sector and skilled labour deconstruction</li> <li>- TGS requirements</li> <li>- Requirements in demolition and construction permits</li> </ul>	<ul style="list-style-type: none"> <li>- Baseline data: Geographies and quantities</li> <li>- Compliance with ONT provincial regulations (102/94, 103/94)</li> <li>- Recertification processes for recycled materials</li> <li>- Focusing on diversion does not retain value for reuse</li> <li>- Scale of industry</li> <li>- Sorting the categories of waste</li> <li>- End of life markets for materials</li> </ul>	<ul style="list-style-type: none"> <li>- Central database resource for sharing</li> </ul>
<b>How could CE participation be encouraged?</b>	<b>How could CE readiness be improved?</b>	
<ul style="list-style-type: none"> <li>- Maintain incentives and rewards</li> <li>- Develop accessible data for sector and support (restoration skills and services)</li> <li>- Broader consideration under heritage policies</li> </ul>	<ul style="list-style-type: none"> <li>- Engage with OWMA (Ontario Waste Management Association)</li> <li>- Waste companies and developers</li> <li>- Precedents for incentives and policies and markets (look to successful examples elsewhere)</li> <li>- Networks for knowledge and resources (data and local resources)</li> </ul>	

## Hospitality Food and Beverage

CE Opportunities	CE Challenges	How could CE information be best communicated to/within/about sector
<ul style="list-style-type: none"> <li>- Employment</li> <li>- Food security and sustainability</li> <li>- Reduction of single-use/takeaway items</li> <li>- Connecting surplus food with food-programming/non-profit sector</li> <li>- Waste measurement standardization</li> <li>- Better management and distribution of food</li> <li>- Provincial policy ban on sending organics to landfill</li> <li>- City to connect sectors for distribution and management</li> </ul>	<ul style="list-style-type: none"> <li>- Connectivity within and across sectors to ensure food is used for its intended purpose</li> <li>- Management and distribution of food</li> <li>- Cost and convenience of reducing waste and single use takeaway</li> <li>- Capacity and resources to scale</li> </ul>	<ul style="list-style-type: none"> <li>- Through industry networks, advisory committees, BIA's, city divisions (<a href="#">LiveGreen</a>).</li> </ul>
How could CE participation be encouraged?	How could CE readiness be improved?	
<ul style="list-style-type: none"> <li>- By creating connection methods for organizations to find contacts and other organizations that could use surplus</li> <li>- City facilitating connections that are not cost and resource prohibitive</li> <li>- Initiatives</li> <li>- Sale of by products</li> <li>- Stamp or badge recognition program</li> <li>- Regulation</li> </ul>	<ul style="list-style-type: none"> <li>- Education and awareness across sector</li> <li>- Meetings about businesses understanding company waste</li> <li>- Clear communication of what solution is and illustrating to sector how it can be connected</li> <li>- Data provided by city</li> </ul>	

## Waste Reduction and Recycling

CE Opportunities	CE Challenges	How could CE information be best communicated to/within/about sector
<ul style="list-style-type: none"> <li>- Re-use of furniture to reduce poverty and improve employment</li> <li>- Align with consumer value system (messaging)</li> </ul>	<ul style="list-style-type: none"> <li>- Re-use vs. recycling</li> <li>- Minimize transportation and (new) infrastructure (leverage and enhance)</li> <li>- Communicating to the masses to encourage behaviour change</li> <li>- Initial capital costs/consumers do not want additional spending</li> <li>- Overseas shipping of waste and recycling</li> </ul>	<ul style="list-style-type: none"> <li>- Identify and communicate market opportunity</li> <li>- Need to consider demographic at more granular level</li> </ul>
<b>How could CE participation be encouraged?</b>	<b>How could CE readiness be improved?</b>	
<ul style="list-style-type: none"> <li>- Financial accessibility</li> <li>- Consumer messaging, producers, manufacturers</li> <li>- Willingness of organizations to collaborate</li> </ul>	<ul style="list-style-type: none"> <li>- Creative communication mediums</li> <li>- Back end planning and coordination of CE businesses (e.g. distribution and storage)</li> <li>- Provide support to small scale CE initiatives (business development and money)</li> <li>- Best practices and awareness (toolkits)</li> </ul>	

## Design and Manufacturing

CE Opportunities	CE Challenges	How could CE information be best communicated to/within/about sector
<ul style="list-style-type: none"> <li>- Lots of waste in packaging/EPR</li> <li>- Shipping waste</li> <li>- Local database</li> <li>- Right to repair</li> <li>- Waste as a resource (“It’s not waste until you throw it out”)</li> <li>- Life cycle analysis</li> <li>- Reduce material costs</li> <li>- Intermediate businesses to convert materials</li> </ul>	<ul style="list-style-type: none"> <li>- Cost (LCA)</li> <li>- Stranded assets</li> <li>- Collateral damage (larger players win the day)</li> <li>- Scale, supply chain</li> <li>- Centralized decision making</li> <li>- Geography</li> <li>- Collaboration, technology, legality</li> <li>- Knowledge</li> <li>- Innovation</li> <li>- Non-virgin stigma</li> </ul>	<ul style="list-style-type: none"> <li>- Collaboration centres</li> <li>- Online database</li> <li>- Media</li> <li>- Industry associations</li> <li>- By government</li> <li>- Storytelling</li> <li>- Youth engagement</li> </ul>
<b>How could CE participation be encouraged?</b>	<b>How could CE readiness be improved?</b>	
<ul style="list-style-type: none"> <li>- Transparency in info, supply chains, LCA</li> <li>- Visualizing consequences</li> <li>- Social comparison</li> <li>- Design competitions</li> <li>- Education and training/curriculum</li> <li>- Systems thinking</li> <li>- Incentives</li> <li>- Just transitions</li> <li>- Community awareness</li> <li>- Material exchange</li> <li>- Carbon tax on virgin</li> <li>- Raise garbage fees</li> <li>- Encourage scrappers</li> </ul>	<ul style="list-style-type: none"> <li>- Association support</li> <li>- Pilot projects</li> <li>- Education</li> <li>- Collaboration design centres</li> <li>- Grassroots and engagement</li> <li>- Right to repair legislation</li> </ul>	

## Textiles

CE Opportunities	CE Challenges	How could CE information be best communicated to/within/about sector
<ul style="list-style-type: none"> <li>- Education</li> <li>- Reuse, repurpose, repair, use extension</li> <li>- Remanufacture</li> <li>- Design for circularity</li> </ul>	<ul style="list-style-type: none"> <li>- Skills (design and repair)</li> <li>- Imports (fast fashion, Duty Drawback policy)</li> <li>- Loss of local manufacturers</li> <li>- Perceived poverty</li> <li>- Cost</li> <li>- Behaviour change</li> <li>- System change</li> <li>- New versus used</li> </ul>	<ul style="list-style-type: none"> <li>- Media marketing</li> <li>- Influencers</li> <li>- Education institutes</li> <li>- Conferences</li> <li>- Webinars (future consumers)</li> <li>- Collaboration</li> </ul>
<b>How could CE participation be encouraged?</b>	<b>How could CE readiness be improved?</b>	
<ul style="list-style-type: none"> <li>- Incentives</li> <li>- Stop NO duty drawback for imports</li> <li>- Location for deadstock</li> <li>- Awareness, influencer, mentorship</li> <li>- Leadership</li> <li>- John Tory wearing the same suit</li> </ul>	<ul style="list-style-type: none"> <li>- Education awareness</li> <li>- How to buy what lasts</li> <li>- Add to curriculum</li> <li>- Lifestyles (home, etc.)</li> <li>- Hot boxes</li> <li>- <u>Tersus</u> laundry</li> <li>- Merchandise used clothing</li> </ul>	

## **Report Back**

### **Built Environment**

Members indicated that excessive packing is an opportunity for reduction and improvement. There is a need for greater awareness about waste problems, such as the Right to Repair introduced in Ontario, and it's the first step to increasing awareness around consumer waste habits. Reducing waste is an opportunity for businesses and consumers to reduce costs. Policy is important. The group discussed legislation and safety around packing food. They also discussed investment in businesses, and when a business model is changed, you are impacting other variables. Lifecycle analysis was discussed.

### **Hospitality, Food, and Beverage**

Members indicated that there are opportunities in Toronto because the food and beverage industry is large. The group considered opportunities to strengthen food security to feed people. They discussed connecting surplus food.

### **Waste Reduction and Recycling**

Members indicated that they had discussed the ways to communicate Circular Economy information to the sector and about the sector. They also spoke about the need to communicate market opportunities to businesses and manufacturers. Members discussed changing demographics and audiences and the need for different communication strategies. They also discussed the need for support for smaller initiatives.

### **Design and Manufacturing**

Members indicated that there are many opportunities for profiling better building and waste management. There are challenges because baseline data is not available. Members also discussed sorting waste, and recycling. Developing an accessible database for the sector is important.

### **Textiles**

Members indicated that the opportunity exists right now to reduce, reuse, recycle, repurpose, repair, re-commerce. The challenge includes perceived obsolescence, dictated by media, influencers, and celebrities, where there is always a need to change styles. Members discussed perceived poverty associated with second hand and thrift. There is a dying skills sector for both design and repair. There is a lack of data from consumer, industry and waste management perspective. The fast fashion industry is offshore; it's a global fragmented supply chain. They also discussed Duty Drawback regulation that incentivises incineration. It all comes down to getting media marketing, the influencers, and educating future generations and making them aware.

## **Next Steps & Announcements**

**Robyn Shyllit** describes that homework is due September 4, invited and reviewed announcements, and informed members that the next meeting will take place in the Fall of 2019.

The meeting adjourned at 4:35 p.m.

## **Attendee List**

### **CEWG Members**

Alison Creba  
 Annalee Sawiak  
 Clayton Miller (for Gary Diamond)  
 Ed Rubinstein  
 Emilia Hurd  
 Emily Alfred  
 Gerald Grison (for Victoria Ho)  
 Hazel Sutton  
 Helen Melbourne  
 Helene St.Jacques  
 Ivan Wadgyamar  
 John Ashbee  
 Joseph P. Hruska  
 Katie Motta  
 Keir Brownstone  
 Kelly Drennan  
 Kiera Tomplemore (for Lori Nikkel)  
 Leah Barrett  
 Lindsay Macdonald (for Panagiotis Panagiotakopolous)  
 Lisa Sloan  
 Lori Andrews  
 Melissa Mirowski  
 Paul Chan  
 Rabi Gautam  
 Rachel Wang (for Nicolas Vergara)  
 Rodney Yip  
 Sarah Lazarovic  
 Sarah Margolius  
 Sherry Arcero (for Eadaoin Quinn)  
 Shirin Karoubi  
 Sophi Robertson  
 Vanessa Farquharson  
 Wai Chu Cheng



**City Staff**

Robyn Shyllit, Senior Coordinator, Public Consultation Unit  
Meaghan Davis, Manager, Circular Economy And Innovation Unit  
Kamara Jeffrey, Project Lead, Solid Waste Management Services  
Kathy Raddon, Project Lead, Solid Waste Management Services  
Brendan Nolan, Corporate Management & Policy Consultant, City Clerks Office  
Jennifer Forkes, Manager, City Clerks Office  
Rob Mcmonagle, Sector Development Officer, Economic Development  
Charlotte Ueta, Manager (Acting), Infrastructure & Development, Solid Waste Management Services  
Linda Swanston, Program Manager, Environment And Energy  
Shayna Stott, Planner  
Carol Tsang, Coordinator, Public Consultation Unit  
Alexa Aiken, Coordinator, Public Consultation Unit  
Tamara Staranchuk, Senior Communications Coordinator, Strategic Communications

## Appendix

### **Further information about Program Advisory Bodies and Council Advisory Bodies**

On May 22, 23 and 24, 2018, City Council adopted the following report titled "Program Advisory Bodies - Key Activities for 2017" which describes Program Advisory Bodies and Council Advisory Bodies. For more information please refer to:

[EX 33.10 - Program Advisory Bodies - Key Activities for 2017](#)

#### **Program Advisory Bodies**

Program Advisory Bodies are divisional committees and working groups that provide advice and input to City staff on City programs, policies and initiatives and are composed of stakeholders, community partners and service users.

They are established by City divisions with Terms of Reference including membership, frequency of meetings and term-length to reflect their mandate and objectives. Program Advisory Bodies are one engagement method used to elicit input and feedback and are dissolved when their mandate is complete or when another engagement process is required to meet divisional needs.

#### **Council Advisory Bodies**

Council Advisory Bodies, established by City Council under the Toronto Municipal Code Chapter 27, Council Procedures, provide advice to City Council on specific areas of interest and term policy priorities to assist City Council's decision-making.

Council Advisory Bodies generally include Members of City Council and are composed of at least 50 percent citizens appointed by City Council. City Council may direct that Council Advisory Bodies have a specific membership composition to achieve a Council priority. For example, the City-School Board Advisory Committee is made up of Council members and School Board Trustees.

All Council Advisory Bodies are required to follow a range of City by-laws, policies and legislation including open meeting requirements under the City of Toronto Act, 2006. All Council Advisory Bodies are dissolved at the end of the term, unless required by legislation. Council Advisory Bodies do not deliver services, direct City staff or make binding decisions on behalf of the Toronto government.

# Circular Economy Working Group Meeting 2

## July 17, 2019 – St. Paul's Bloor Street

**Zero Waste**

**Brown Bag Lunch**

**12pm – 1pm**

**Meeting**

**1pm - 4:30pm**



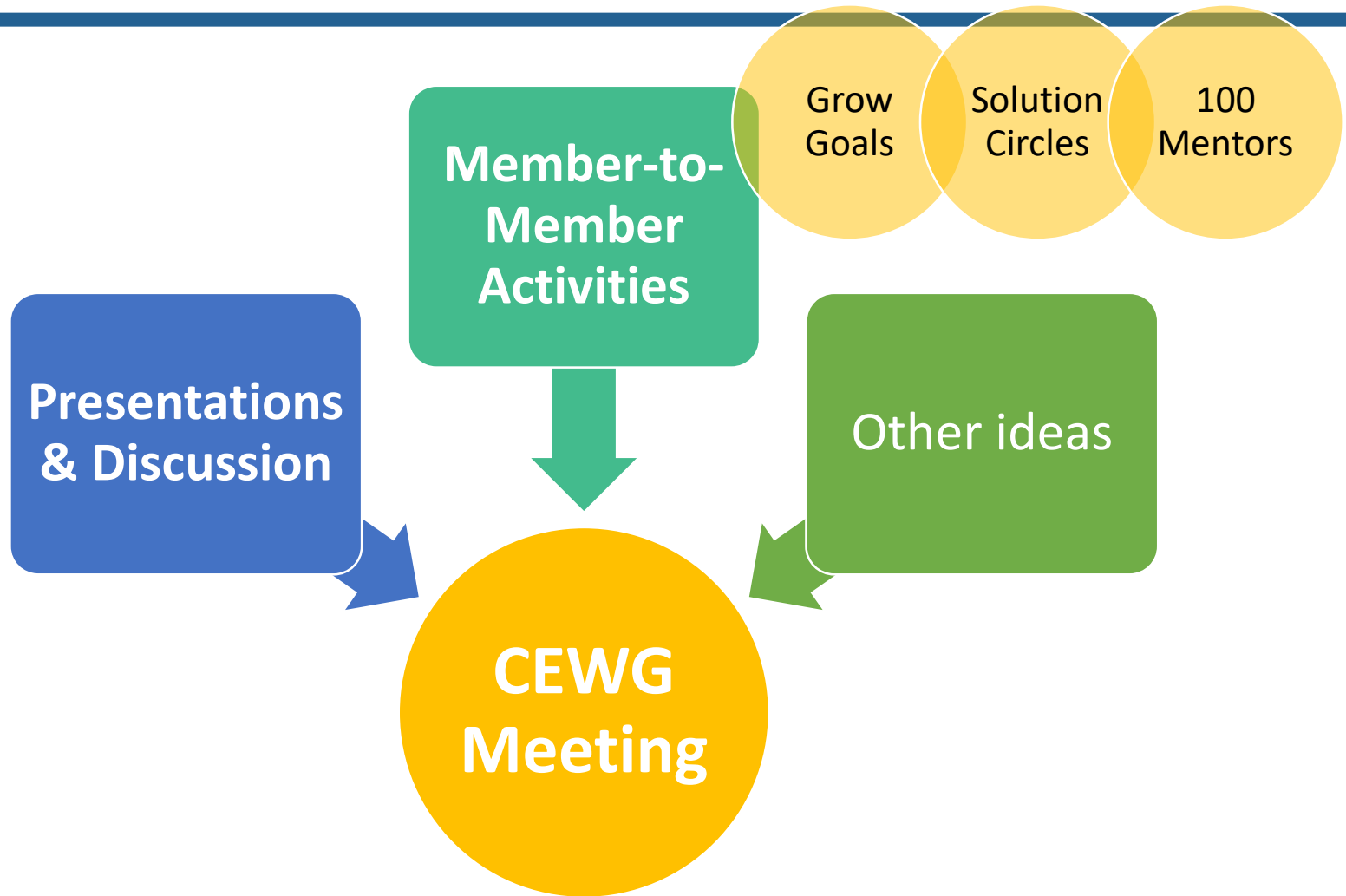
# Agenda

12:00	<b>Zero Waste Brown-bag lunch, registration, networking</b>
1:00	<b>Welcome, RoundTable Introductions, Agenda, Objectives</b> Robyn Shyllit, Senior Public Consultation Coordinator
1:05	<b>ACTIVITY 1 - GROW Goals Check-in</b>
1:15	<b><i>Meeting 1 What we heard, SWMS Update</i></b> Presentations & Q&A <ul style="list-style-type: none"><li>• Meaghan Davis, Acting Manager UFRICE</li><li>• Charlotte Ueta, Acting Manager Waste Management Planning</li></ul>
2:10	<b><i>City Structure &amp; Decision Making</i></b> Presentation & Q&A Jennifer Forkes, City Clerks Office
2:30	<b>BREAK</b>
2:45	<b><i>Interdisciplinary Panel: Circular Economy across City Divisions Panel Discussion</i></b> Presentation & Q&A <ul style="list-style-type: none"><li>• Charlotte Ueta, Acting Manager Waste Management Planning</li><li>• Linda Swanston, Program Manager, Energy and Environment Division</li><li>• Rob McMonagle, Sector Development Office, Economic Development</li><li>• Shayna Stott, Planner, City Planning</li></ul>
3:30	<b>ACTIVITY 2 - CE Engagement Strategies</b>
4:20	Next steps & announcements
4:30	Meeting Adjourns

# Meeting 2 Objectives

1. Review and discuss Meeting 1 feedback:
  - what we heard
  - group objectives
2. Build member knowledge on:
  - City decision making
  - Sustainability and resiliency across City divisions
  - SWMS activities
3. Convene interdisciplinary panel on City initiatives relevant to CE sectors
4. Obtain feedback on sector engagement strategies, including:  
opportunities, challenges, engagement tools
5. Convene interactive meeting and provide opportunity for informal networking and discussion

# Member-to-Member Activities



# Group Objectives

Year 1 Convene & Explore	Year 2 Comment & Collaborate	Year 3 Reflect & Plan
<p>Create, convene, and connect a new Toronto CE network to:</p> <ol style="list-style-type: none"> <li>1. Learn together and build CE capacity through knowledge sharing, learning, and peer support activities</li> <li>2. Explore how CE is evolving in member organizations and develop actions for members to take back to their own initiatives</li> <li>3. Gain understanding of tools needed by Group members to support CE initiatives</li> <li>4. Inform and engage members on relevant CE related SWMS programs</li> </ol>	<p>Consult members and receive feedback on:</p> <ol style="list-style-type: none"> <li>1. Relevant CE related SWMS programs</li> <li>2. Waste Strategy implementation activities</li> <li>3. Where City support is required to convene stakeholders</li> <li>4. Draft CE roadmap, including relevant collaboration opportunities</li> </ol> <p>Continue year 1 activities as required.</p>	<p>Consult members and receive feedback on:</p> <ol style="list-style-type: none"> <li>1. CE roadmap implementation activities</li> <li>2. Reflect on working group activities, plans, and structure</li> <li>3. Identify next steps and actions for the Group</li> </ol> <p>Continue year 1 &amp; 2 activities as required.</p>

# GROW Goal Check-In

## What was your GROW goal?

**G**oal – **R**eality – **O**ptions – **W**ay Forward

What's happened since Meeting 1?

What challenges are you facing?

What's next?

1. Review your workbook notes.
2. Find a partner and update each other on where you're at.

(10 minutes total, 5 minutes/person)



# ***SWMS Update***

Meaghan Davis,  
Acting Manager UFRICE

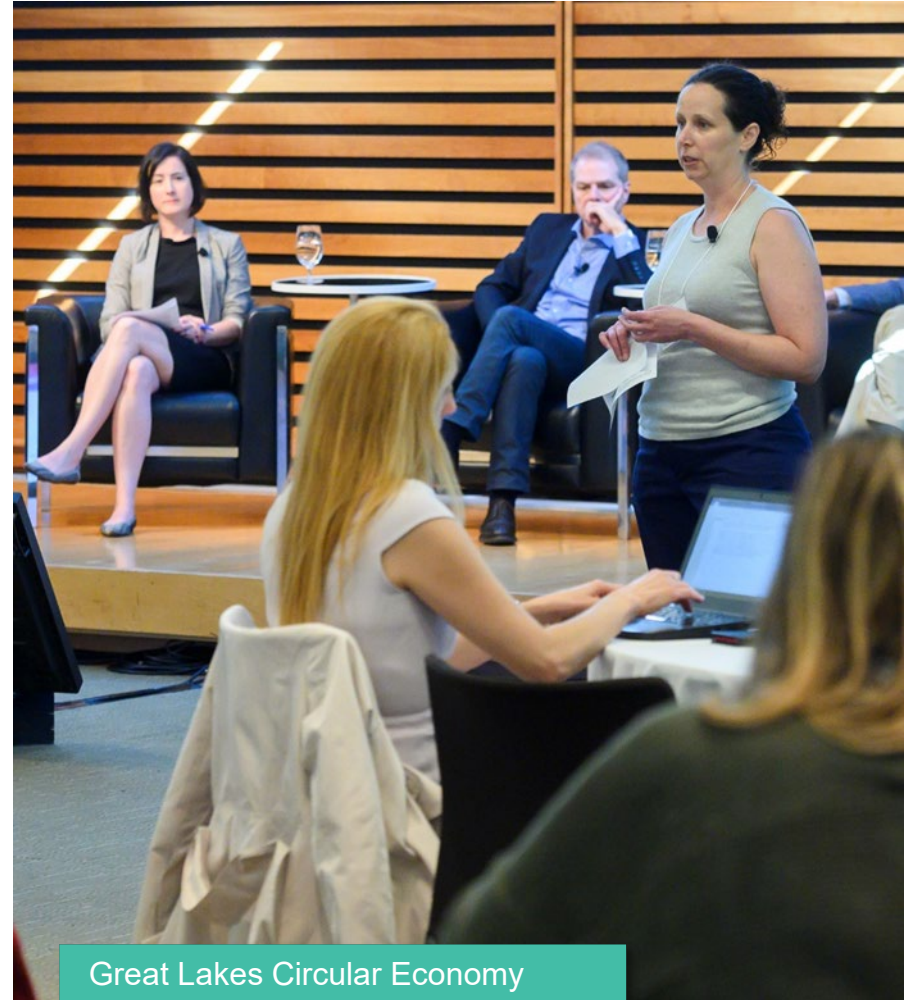
# SWMS Update: Recent Initiatives



Urban Futures Global Conference  
(Oslo, Norway)

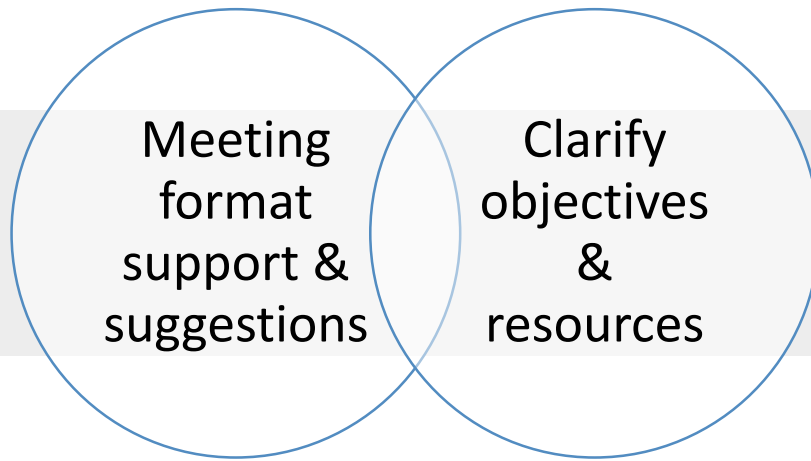


Recycling Council of Ontario  
Circular Procurement Summit

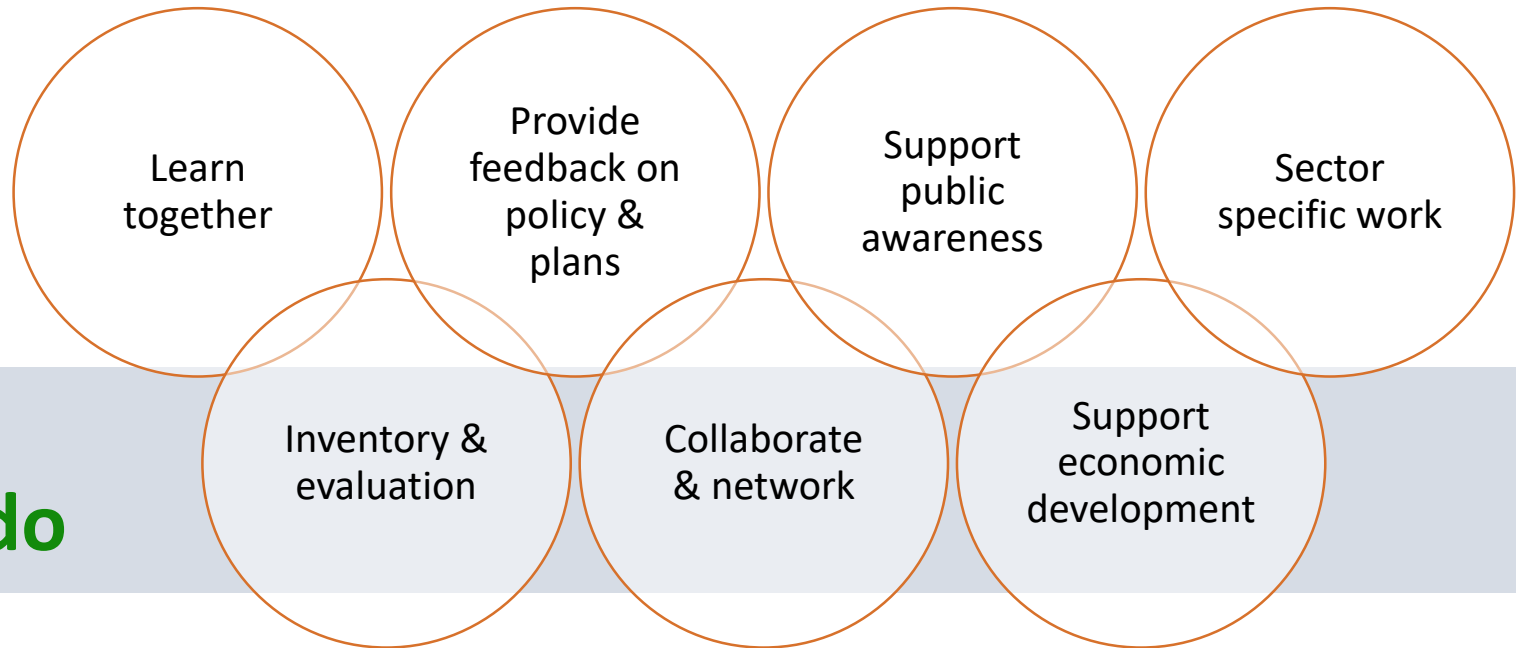


Great Lakes Circular Economy  
Forum

# Meeting 1: What we heard



## How meetings run



## What we want to do

# Objectives of CEWG

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- 1) Help contribute to City-led initiatives that promote a Circular Economy
- 2) Helping build member capacity to take leadership on Circular Economy in community

# Goals

## Goals

- 1) To help achieve City Council's aspirational goal of moving toward a zero waste future and becoming a circular city.
- 2) To increase the capacity of CEWG members to help enable the circular economy transition in Toronto through industry-specific leadership.

# Goals

## **Provided by City staff**

- Staff capacity (meeting logistics)
- Meeting space
- Policy leadership
- Resources for circular economy activities (e.g. baseline study and road map)

## **Provided by members**

- Time (attendance, and up to 10 hours per month)
- Sector-specific insight/expertise in CE
- Specific input when requested on policy and research, initiatives
- Community leadership
- Identify and lead initiatives related to the goals and outcomes of this group



# Goal

## **Led by City staff**

- Quarterly meetings
- Sharing circular economy best practices
- Member training and learning opportunities
- Support for member-led initiatives as appropriate

## **Contributions by members**

- Provide input on circular economy planning initiatives and research projects
- Provide input in circular economy promotion and education tools
- Peer-sharing and networking
- Opportunities for member-led activities as appropriate

# Goals

## **Generated by City staff**

- Capacity building exercises and training opportunities
- A baseline circularity analysis and circular economy road map informed by CEWG members
- Key performance indicators to evaluate circular progress informed by CEWG members

## **Generated by members**

- New partnerships/collaborations
- Industry/community-specific input, expertise, and perspectives
- Industry/community-specific promotion and education

# Goals

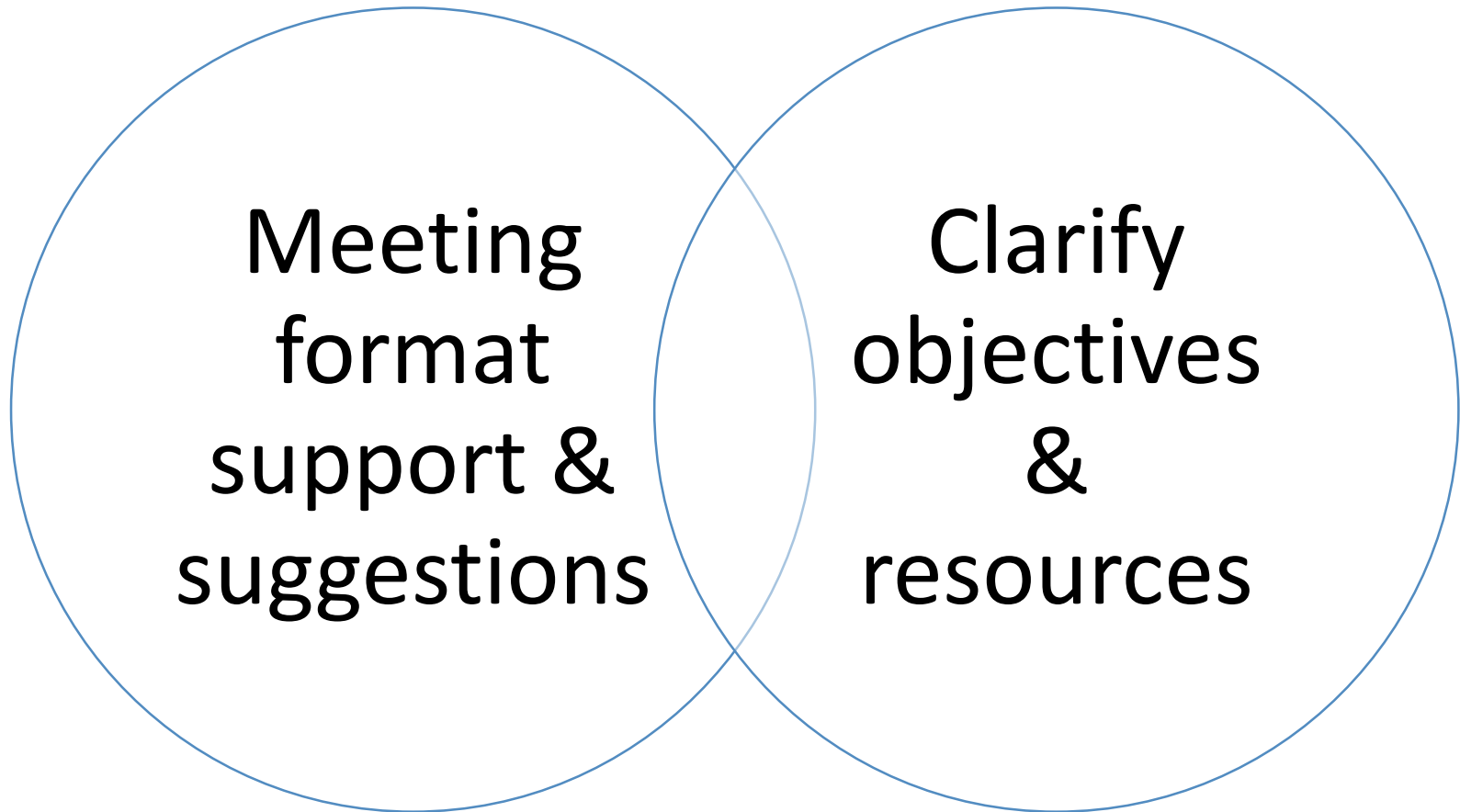
## **Shorter term (1- 5 years)**

- A shared vision for change is established
- Policy development integrates meaningful input from members/local experts
- Strong constituency for circular economy is organized in Toronto

## **Longer term (5 years +)**

- Circular economy is understood and practiced by residents
- City of Toronto procedures support the transition towards becoming a circular city
- A goal of zero waste has been embraced across Toronto

# What we heard: How meetings run



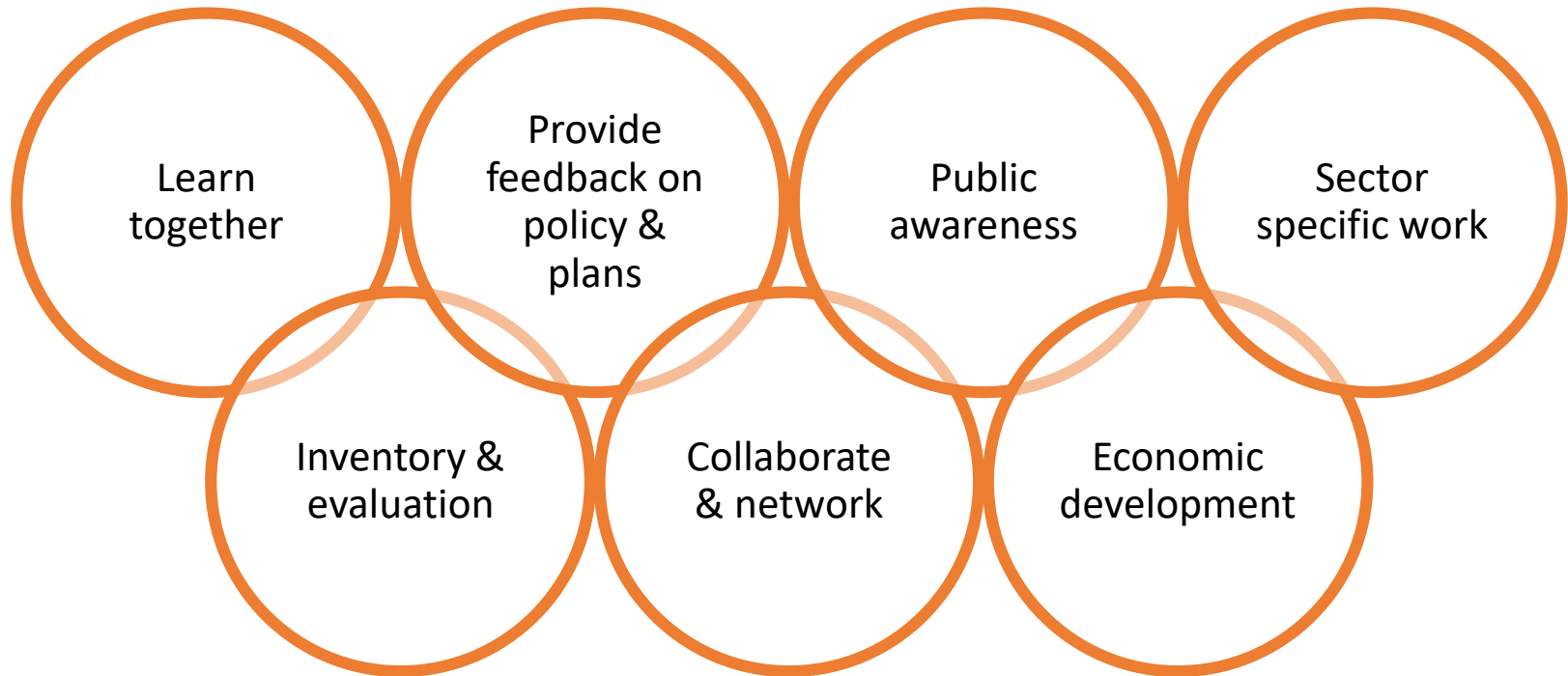
# Re: Meeting Format Support & Suggestions

What we heard	<i>SWMS activities/response:</i>
<p>We liked the meeting activities, presentations, group work, networking opportunities, onboarding information, and venue.</p> <p>However, we also have suggestions for future meetings:</p> <ol style="list-style-type: none"><li>1. More networking time</li><li>2. Slow down the agenda</li><li>3. Table facilitation is needed to keep on track</li><li>4. Bring in Guest Speakers</li><li>5. More concrete homework</li></ol>	<ul style="list-style-type: none"><li>- We will offer an optional networking immediately ahead of meetings</li><li>- We will try to balance the agenda to balance productivity with overload/fatigue</li><li>- Guest speakers and homework will be incorporated when possible</li></ul> <p><i>Member's role:</i></p> <ul style="list-style-type: none"><li>- CEWG members to take turns as table facilitators, time keepers, note takers &amp; reporters</li></ul>

# Re: Clarify Objectives

What we heard	<i>SWMS activities/response:</i>
<p>We need a clear understanding of meeting objectives, what's expected from us, and specific deliverables at each meeting.</p> <p>We need to understand how our feedback will be used, what resources are available to us, and we want action based goals sooner.</p>	<ul style="list-style-type: none"><li>- Meeting objectives will be included in agenda and discussed at each meeting.</li><li>- SWMS staff will connect activities to CEWG objectives</li><li>- Meeting space, networking support, sharing information and data, and additional resources will be shared with members as staff identify them (e.g. EMF e-learning)</li></ul>

# What we heard: What we want to do



# Learn together

## Areas of interest

- Solid Waste Management Operation in Toronto
  - What materials are particularly problematic in our streams
  - Where Toronto's waste ends up (medical, construction, residential, toxics, organics, etc.)
- Examination of end markets for Toronto's recycling and waste
  - Recycling industry in Toronto vs. Canada
- Methods to reduce GHG emissions and resources in solid waste operations
- Public policy direction and leading practices in circular economy
  - How Toronto works to intervene in the linear economy
  - Extended Producer Responsibility
  - How to interact with government and provide effective input



# Re: Learn together

## Guest Speaker ideas:

### City of Toronto

- Indigenous Affairs Office
- Resilience Office
- Economic Development & Culture
- Purchasing and Materials Management
- Toronto Water
- City Planning

### Other levels of government

- Ministry of Environment, Conservation & Parks
- Environment Canada

### First Nations Community

### Experts from within the CEWG

### Academics

- Peter Victor, York University
- Matti Siemiatycki, UofT
- Mark Gorgolewski, Ryerson University
- Behavioral environmental psychologists.

### Businesses

- Bob Willard (author)
- Tom Szaky, Terra Cycle/The Loop
- CE Case Study examples

### NGOs

- Green Roofs for Healthy Cities
- Charmian Love, UK, London Circular Economy

# Re: Inventory and Evaluation

## What we heard

**We want a realistic assessment of where we are now, including targets and data collection strategies.**

- Undertake an inventory of current CE landscape – businesses, organizations, assets,
- Evaluate CE gaps, needs and road blocks
- Benchmark metrics for tracking progress towards the CE

## *SWMS activities/response*

*SWMS activities/response:*

- Exploring partnership for research project analyzing Toronto's baseline circularity
  - Anticipated timing: ~12-14 months till completion

*Member's role:*

- Participation and feedback opportunities will emerge during the baseline circularity project

# Provide feedback on Policy and Plans

What we heard	<i>SWMS activities/response:</i>
<p><b>We want to provide input on regulatory possibilities and develop a plan of action to reduce waste.</b></p> <ul style="list-style-type: none"><li>• Help inform policy development as it relates to CE in the City</li><li>• Build CE policies to achieve zero waste</li></ul> <p>Provide input on how we can improve waste efficiency</p> <ul style="list-style-type: none"><li>• Engage in pilot projects and testing</li><li>• Support regional coordination for material collection and redistribution</li></ul>	<ul style="list-style-type: none"><li>• The Circular Economy Road Map for Toronto will inform the City's direction for policy and programs</li><li>• Working with PMMD on a pilot that is integrating circular principles into procurement processes</li><li>• Single use items review</li></ul> <p><i>Member's role:</i></p> <ul style="list-style-type: none"><li>• Key opportunities for input to inform the development of the Road Map, and in the single use items review.</li></ul>

# Increase Public Awareness

What we heard	Response
<p><b>We want to increase public awareness of CE and develop tools to encourage education and promotion.</b></p> <ul style="list-style-type: none"><li>• Tools to explain CE to the general public and think about future of CE in Toronto</li><li>• Case studies and insight into broad local strategies, initiatives and best practices; areas outside of direct work</li><li>• Promotion of zero waste initiatives</li><li>• Find out how Toronto residents are currently engaged in CE</li><li>• Create a knowledge base of CE best practices and opportunities</li></ul>	<p><i>SWMS activities/response:</i></p> <ul style="list-style-type: none"><li>• Leading public awareness campaigns</li><li>• Road Map will explore activities to increase public awareness</li><li>• Communications planning for case studies</li></ul> <p><i>Member's role:</i></p> <ul style="list-style-type: none"><li>• Case study materials for promotion within networks</li><li>• Members are encouraged to self-organize and use this network to identify new promotion opportunities for circular economy initiatives</li></ul>

# Support Economic Development

## What we heard

**We're interested in growing CE industry and employment, and the roles of entrepreneurs and businesses in supporting Toronto's goals.**

- Explore equity in CE in Toronto to provide affordable access to materials, goods, and opportunities.
- Green employment opportunities for tenants, youth and students
- Ways of supporting business initiatives through partnerships and other incentives
- Drive Toronto recycling industry
- How to develop industry around CE and not just recycling
- Market incentives already happening

## *SWMS activities/response:*

- Waste Reduction Community Grants
- Community Reduce & Reuse Program
- Green Market Acceleration Program (GMAP) – through Economic Development & Culture

## *Member's role:*

- Participation opportunities through existing City programs
- Industry leaders

# Collaborate & Network

## What we heard

### **We want connections to make projects happen.**

- Connect and network opportunities for business and others to synergize resources so that the waste/used materials stay in the economy.
- Partnership opportunities regarding common linkages, resources, outputs and inputs
- Opportunities to help each other and share experience
- Look at opportunities for interaction among Group members between meetings

## *SWMS activities/response:*

### *SWMS activities/response:*

- GROW Goals, Solution Circles, 100 Mentors and other activities designed to help with member's development

### *Member's role:*

- encouraged to take advantage of networking and identify opportunities for peer-sharing

# Sector Specific Work

What we heard	<i>SWMS activities/response:</i>
<p><b>Some of us want to focus on the big picture and stay high level. Some of us are interested in action-oriented sector specific discussions.</b></p> <p>Textiles</p> <ul style="list-style-type: none"><li>• Find potential partners to make fashion more circular</li><li>• Recommendations on closing the gap re: textile remanufacturing</li></ul> <p>Food</p> <ul style="list-style-type: none"><li>• Address food security and food sustainability in our urban environment</li><li>• Creative process of handling organics from use, repurpose and soil enhancements</li><li>• Healthier food options and solutions</li><li>• Urban farming</li></ul> <p>Housing</p> <ul style="list-style-type: none"><li>• Increase access to sustainable and affordable products and services for tenants</li><li>• Options for fixtures and furniture</li></ul>	<ul style="list-style-type: none"><li>• Homework will solicit more information on interest in subcommittees</li><li>• Existing program areas include: Food Waste Reduction, Textile Collaborative, Community Reduce &amp; Reuse, Waste Reduction Community Grants, 3R's Ambassador</li></ul> <p><i>Member's role:</i></p> <ul style="list-style-type: none"><li>• Opportunities to engage deeper on key initiatives at meetings (e.g. road map)</li></ul>

# Update on Single Use Items Reduction Strategy

Charlotte Ueta,  
Manager Waste Management Planning



# Background

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January 2018 - Public Works and Infrastructure Committee referred an Item on Reducing the Use of Single-Use Products to SWMS for consideration as part of the Long Term Waste Management Strategy

April 2018 - SWMS reported to City Council on challenges facing Toronto's Blue Bin recycling program:

- Delay in development of an amended Blue Box Program Plan – full EPR for producers
- Increasing contamination in Blue Bin recycling lowering quality of material recovered
- New restrictions from international markets on the import of wastes

# Developing a Process

In response to the City's challenges with the Blue Bin Recycling program, City Council requested in April 2018 that:

- The Federal Gov. develop a national strategy to address plastic pollution, including 9 recommendations, and that City Council forward motion to FCM
- SWMS develop a process to reduce and/or eliminate single-use or takeaway packaging to help achieve the City's goal to become a circular economy city as part of the Long Term Waste Strategy



# City Council Direction on Single-Use and Takeaway Items

City Council direction in July 2018 (PW 31.10 – Options to Reduce Single-use and Takeaway Items):

- a) develop a work plan aimed to reduce the use of single-use or takeaway packaging or products by completing pre-consultation with residents and stakeholders in Fall 2018 and a report back in 2019
- b) develop a policy which would restrict use of plastic straws in the City of Toronto
- c) consult with affected businesses, community health groups and other organizations prior to the submission of the proposed policy which would restrict plastic straws and report to the Public Works and Infrastructure Committee in 2019

# Phase 1 Consultation in Fall 2018

- A single-use or takeaway item was presented as:  
*"any product designed for a single-use after which it is disposed of, whether into garbage or a waste diversion stream, as solid waste. Typically, these products are not designed for durability or reuse."*
- The objectives were to obtain feedback on:
  - Which single-use or takeaway items should be addressed;
  - The preferred methods or approaches (through mandatory or voluntary approaches, or a combination) to reduce these items; and
  - Additional opportunities to promote reuse.



# Phase 1 Consultation Results

- 20,512 individuals participated with 95% of individuals residing in Toronto or the GTHA
- Results from online survey include:
  - +70% of survey respondents were very likely or somewhat likely to use a reusable option for all items listed
  - Consistent support for mandatory measures and voluntary approaches to reduce many items
    - strong support (75%, 1% variation) for mandatory approaches to reduce: plastic bags, expanded polystyrene foam and black plastic takeout containers
  - All other items listed received support for mandatory (52% - 63%) or a combination of voluntary and mandatory (24% - 35%) approaches to reduction (with the exception of paper bags)
- Results from polling reinforced the results of the online survey, however had typically lower levels of support

# Next Steps

---

- Visit [toronto.ca/waste](https://toronto.ca/waste) for more information on Single-Use and Takeaway Items Reduction
- Phase 2 consultation planned for Fall 2019
- Sign-up at [toronto.ca/wastestrategy](https://toronto.ca/wastestrategy) to receive updates on upcoming consultation dates and times
- Results from Phase 2 consultation and proposed work plan presented to Infrastructure and Environment Committee in Q1 2020

# Decision Making and Public Participation at the City of Toronto

Jennifer Forkes, City Clerk's Office  
Brendan Nolan, City Manager's Office

# Municipal government

The **City of Toronto** is responsible for:

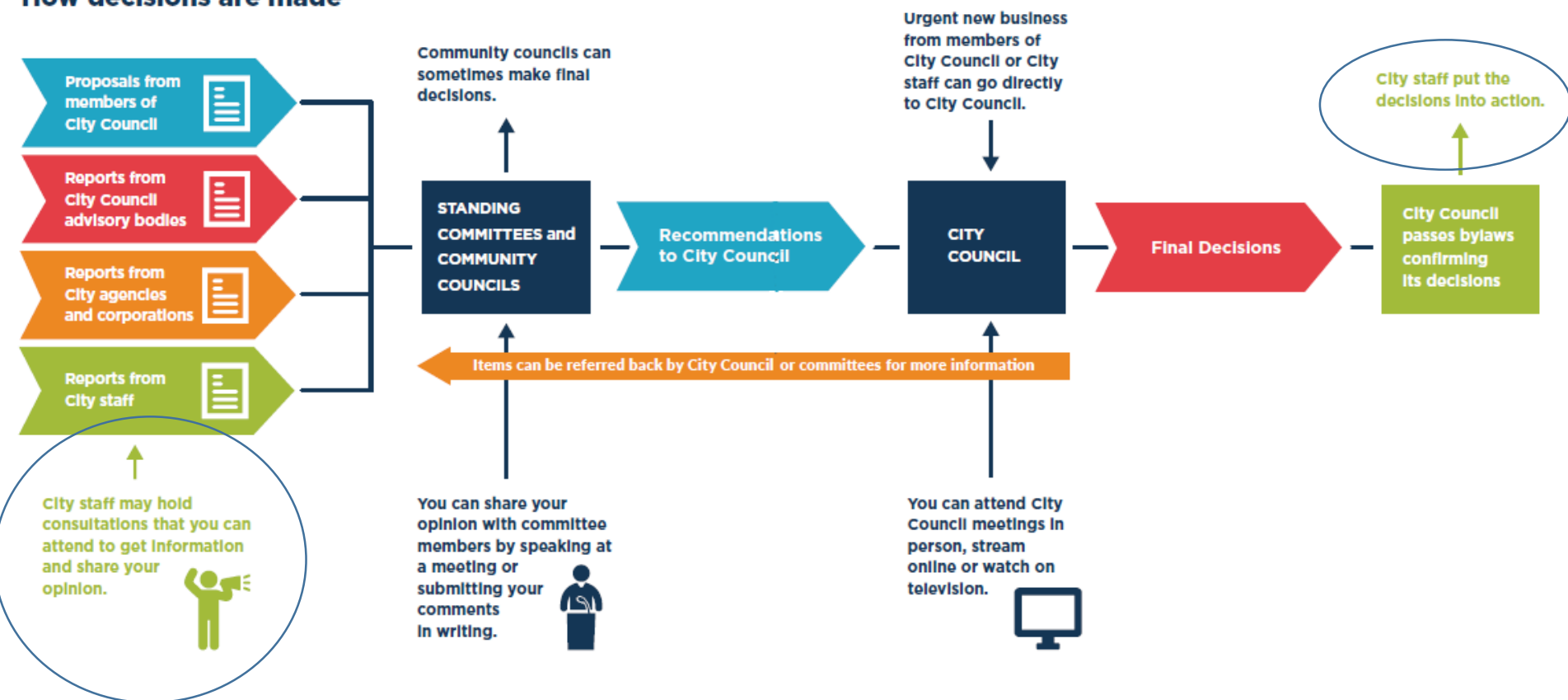
- Water treatment
- Parks
- Libraries
- Garbage collection
- Public transit
- Land use planning
- Traffic signals
- Police
- Paramedics
- Fire services
- Sewers
- Childcare
- Homeless shelters
- Recreation centres and more





# How Council decisions are made

## How decisions are made



# Committee meetings

Participate in a committee meeting



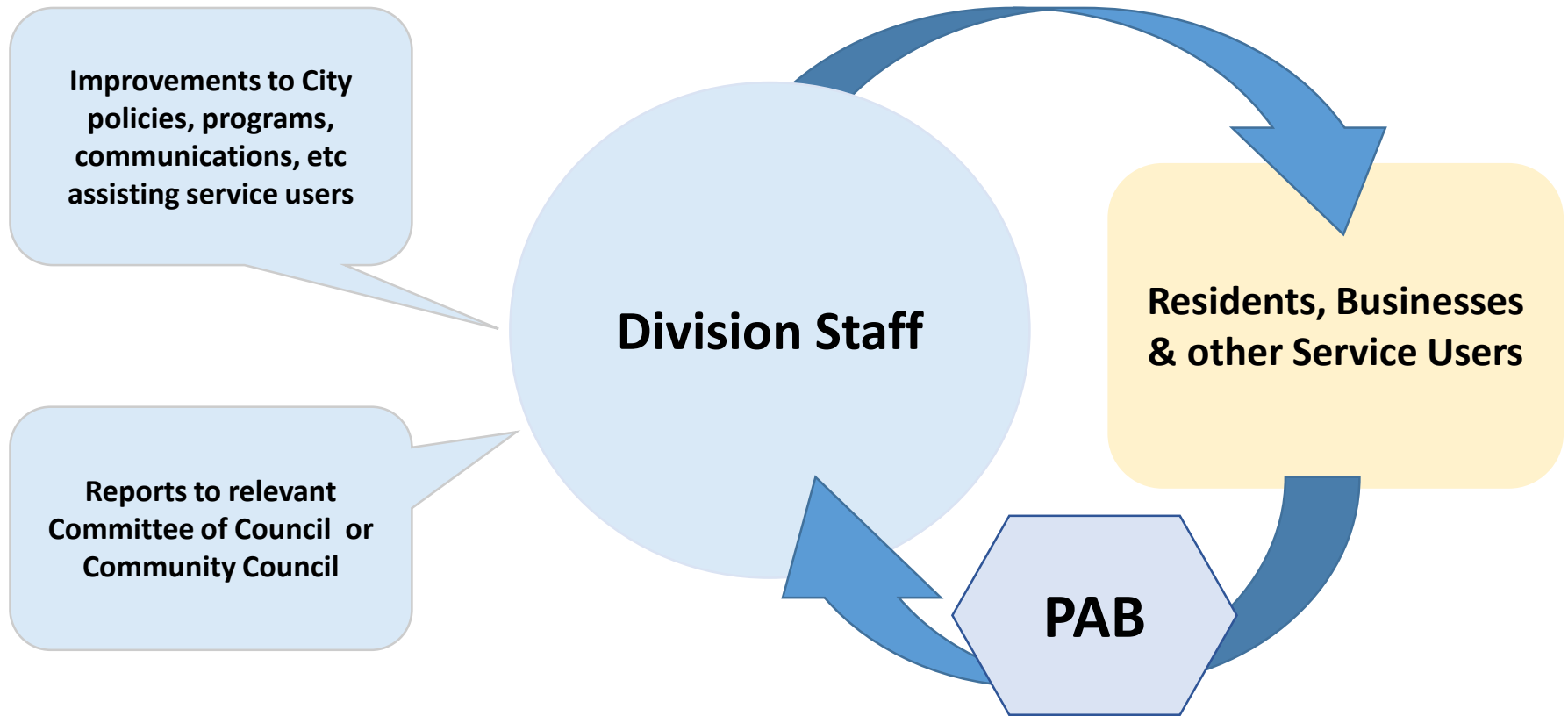
1. Speak about an issues at a committee meeting
2. Write to City Council or a committee
3. Submit a petition

**[toronto.ca/council](https://toronto.ca/council)**

# Role of Program Advisory Bodies

- Program Advisory Bodies (PABs) are convened for the purpose of assisting staff by providing input on a policy, program or service
- Provide opportunities for candid, direct advice from service users, subject matter experts and those with lived experience
- Used for a variety of purposes:
  - Existing service feedback for improvement
  - Development of new services
  - Inputs to City policy development
  - Identification of opportunities for innovation

# RE: Role of Program Advisory Bodies



# Examples of Program Advisory Bodies

## Toronto Open Data Advisory Group

- ✓ *“Provides advice through workshop-style meeting participation to enhance and steward the development of the City of Toronto’s Open Data Master Plan and Roadmap.”*

## Motorcoach Parking Advisory Group

- ✓ *“Provide advice on issues facing coach operators and entertainment businesses dependent on group travel in Toronto.”*

## Parks, Forestry & Recreation Disability Steering Committee

- ✓ *“Provides information and feedback, and PF&R programs and services for people with disabilities and increases awareness and education.”*

## Community Advisory Table on Modernizing the City-Community Non-Profit Sector

- ✓ *“Represents the voice of the community non-profit sector in the development of a new policy on the City's relationship with the not for profit sector. The policy was approved by City Council in December 2017.”*

# RE: Examples of Program Advisory Bodies

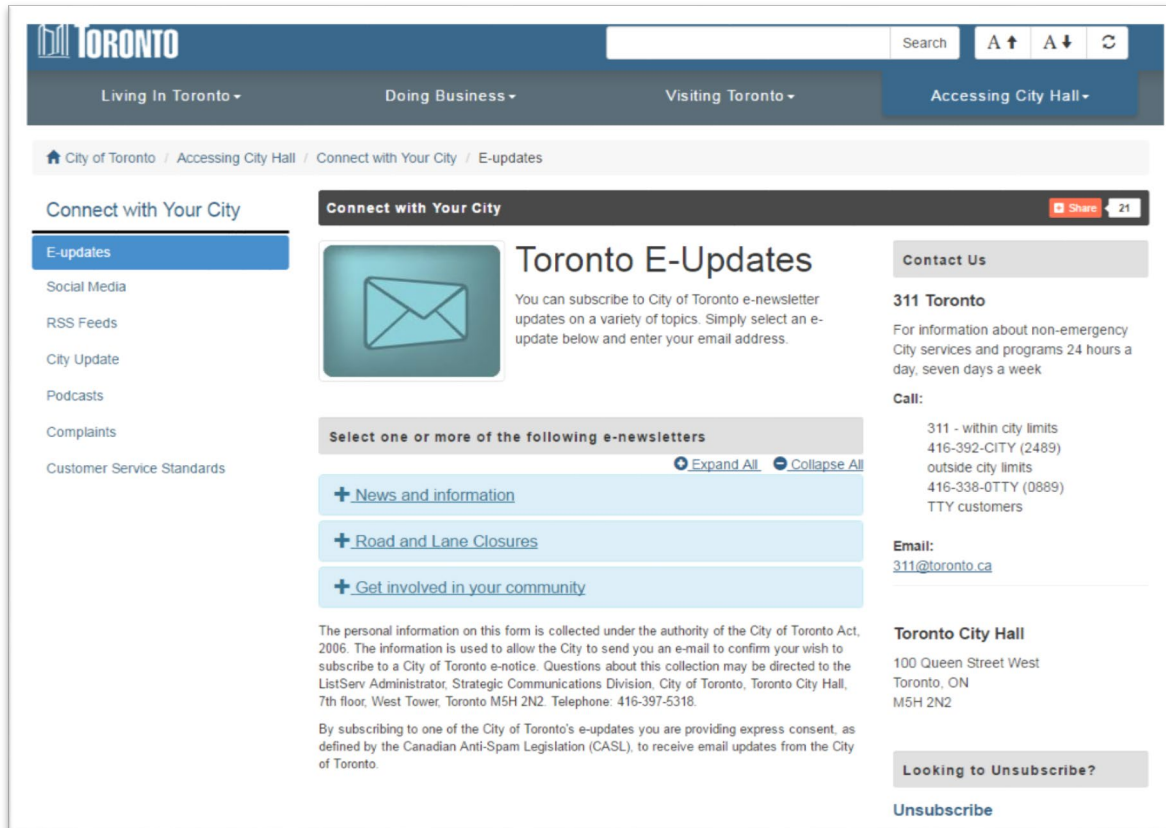
## **Circular Economy Working Group will:**

“...support the City of Toronto's goal of moving toward a zero waste future and a Circular Economy as set out in the Council approved Long Term Waste Management Strategy. According to the Ellen MacArthur Foundation, "Circular Economy" aims for the elimination of waste through the superior design of materials, products, systems and business models.”

## **The Working Group's members will have the opportunity to:**

- Represent their sector or organization's perspective at key stages throughout the City's Circular Economy journey
- Provide input into the development of Circular Economy programs and initiatives and adoption of circular practices
- Promote and share information on relevant Solid Waste Management Services programs and issues
- Provide insight and share feedback on circular economies.

# Subscribe to email updates



The screenshot shows the City of Toronto website's 'E-Updates' page. At the top is the City of Toronto logo and navigation links: 'Living In Toronto', 'Doing Business', 'Visiting Toronto', and 'Accessing City Hall'. Below this is a breadcrumb trail: 'City of Toronto / Accessing City Hall / Connect with Your City / E-updates'. A left sidebar titled 'Connect with Your City' lists links for 'E-updates', 'Social Media', 'RSS Feeds', 'City Update', 'Podcasts', 'Complaints', and 'Customer Service Standards'. The main content area is titled 'Toronto E-Updates' and includes an envelope icon. It explains that users can subscribe to e-newsletters on various topics by selecting one and entering their email address. Below this is a section titled 'Select one or more of the following e-newsletters' with three expandable options: '+ News and information', '+ Road and Lane Closures', and '+ Get involved in your community'. To the right of these options are links to 'Expand All' and 'Collapse All'. Further right is a 'Contact Us' section for '311 Toronto', providing contact information for non-emergency services (24 hours a day, seven days a week), including phone numbers for within city limits (416-392-CITY), outside city limits (416-338-0TTY), and TTY customers. It also lists the email address '311@toronto.ca' and the physical address of Toronto City Hall (100 Queen Street West, Toronto, ON M5H 2N2). At the bottom of the form, there is a disclaimer about the collection of personal information under the City of Toronto Act, 2006, and a statement that by subscribing, users are providing express consent under the Canadian Anti-Spam Legislation (CASL). A button labeled 'Looking to Unsubscribe?' and a link 'Unsubscribe' are located at the bottom right of the form.

**Toronto E-Updates**

You can subscribe to City of Toronto e-newsletter updates on a variety of topics. Simply select an e-update below and enter your email address.

Select one or more of the following e-newsletters

- + News and information
- + Road and Lane Closures
- + Get involved in your community

The personal information on this form is collected under the authority of the City of Toronto Act, 2006. The information is used to allow the City to send you an e-mail to confirm your wish to subscribe to a City of Toronto e-notice. Questions about this collection may be directed to the ListServ Administrator, Strategic Communications Division, City of Toronto, Toronto City Hall, 7th floor, West Tower, Toronto M5H 2N2. Telephone: 416-397-5318.

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**Contact Us**

**311 Toronto**

For information about non-emergency City services and programs 24 hours a day, seven days a week

**Call:**

- 311 - within city limits  
416-392-CITY (2489)
- outside city limits  
416-338-0TTY (0889)
- TTY customers

**Email:**  
311@toronto.ca

**Toronto City Hall**

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[Unsubscribe](#)

- You can subscribe to many different email lists based on your interests
- Subscribe to your community council to stay informed about what's happening in your area

[toronto.ca/e-updates](https://toronto.ca/e-updates)

# Break!



# Panel Discussion

## **Interdisciplinary Engagement: Circular economy principles across City Divisions**

Charlotte Ueta, Acting Manager Waste Management Planning  
Linda Swanston, Program Manager, Energy and Environment Division  
Rob McMonagle, Sector Development Office, Economic Development  
Shayna Stott, Planner, City Planning

# Long Term Waste Management Strategy



# RE: Long Term Waste Management Strategy



# Waste Reduction Community Grants Program

- 3-year (2018-2020) pilot program to fund innovative community-led projects focusing on waste reduction and diversion
- Grants range from \$5,000 to \$25,000, with \$150,000 available per year
- Priority on investing in actions that address:
  - multi-residential buildings
  - multi-lingual communities
  - Neighbourhood Improvement Areas



**HAVE AN INNOVATIVE IDEA TO REDUCE WASTE?**

ELIGIBLE ORGANIZATIONS CAN APPLY FOR A  
WASTE REDUCTION COMMUNITY GRANT TODAY.



Call **3-1-1**





# Love Food Hate Waste

- 3-year (2018-2021) partnership with National Zero Waste Council, other government organizations and retailers
- To enable consumers to learn and practice ways to reduce avoidable food waste



# Community Reduce & Reuse Programs



Urban Harvest



Sewing Repair Hubs



Community Composting



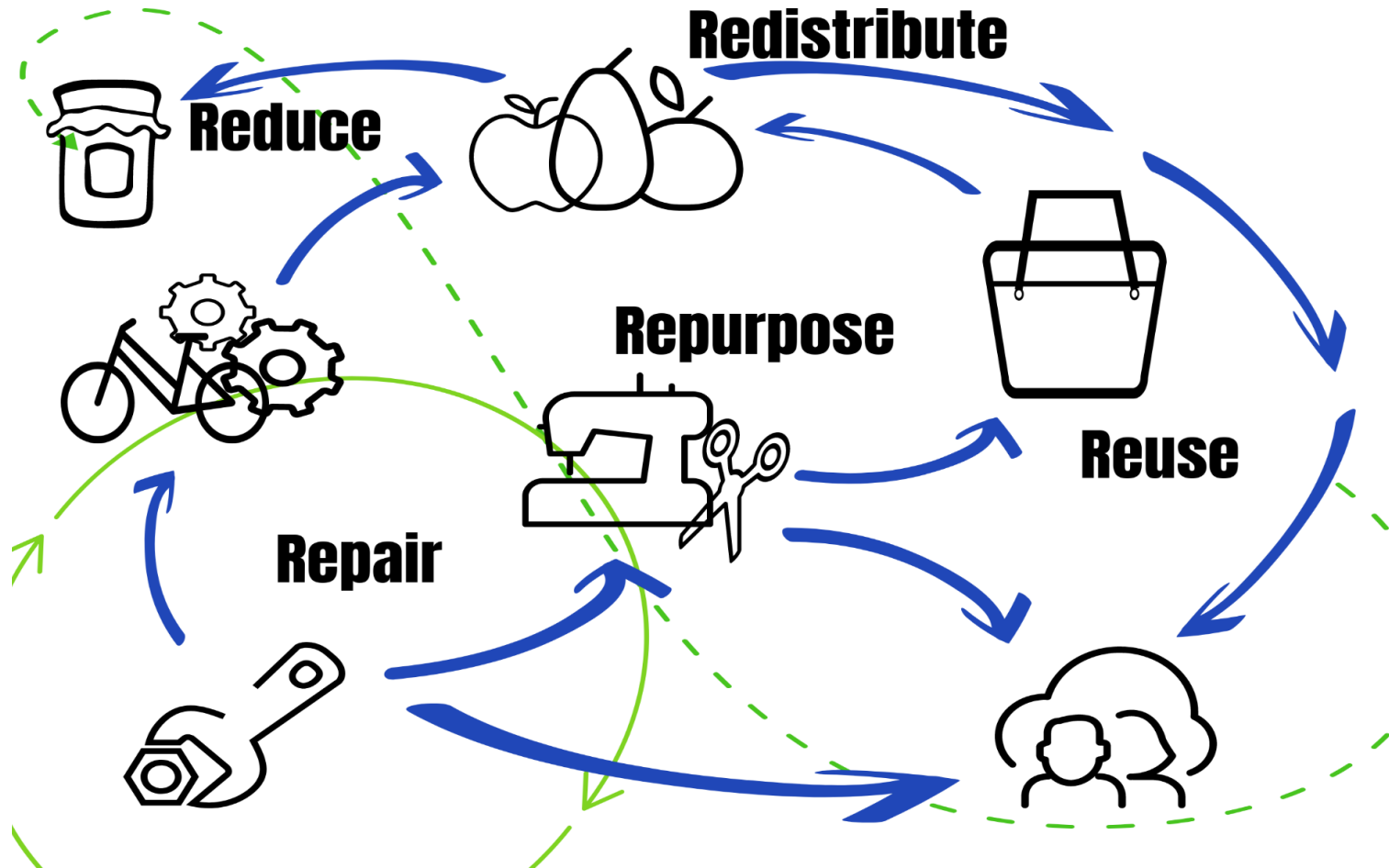
Bicycle Repair Hubs



Sharing and Reuse Spaces



# Synergies Between Programs



# Thank You



[toronto.ca/wastestrategy](https://toronto.ca/wastestrategy)  
[wastestrategy@toronto.ca](mailto:wastestrategy@toronto.ca)



# The Circular Economy and Toronto's Green Industries

*Circular Economy Working Group– 15-Jul-19*

**Rob McMonagle**

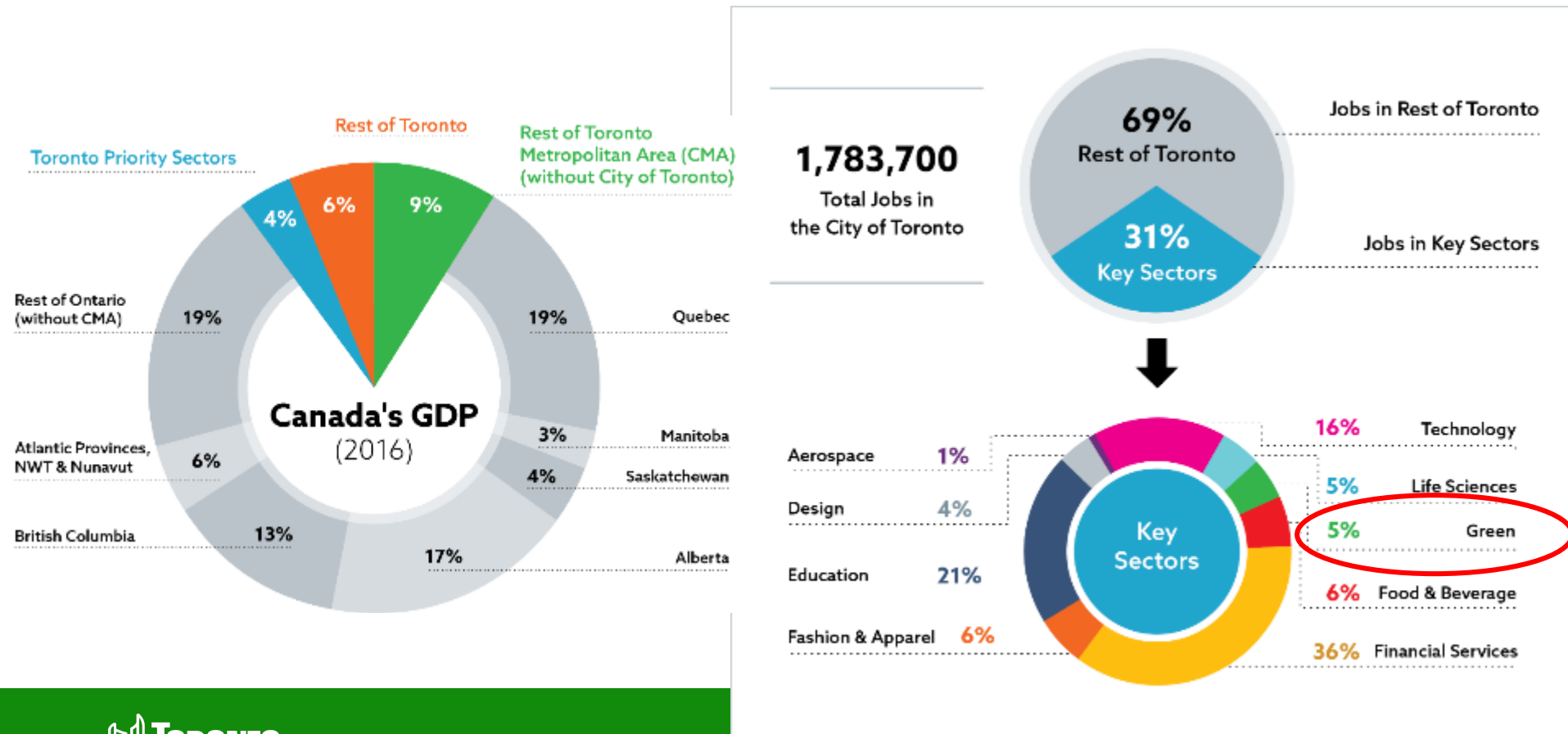
Sector Development Office, Economic Development & Culture  
City of Toronto





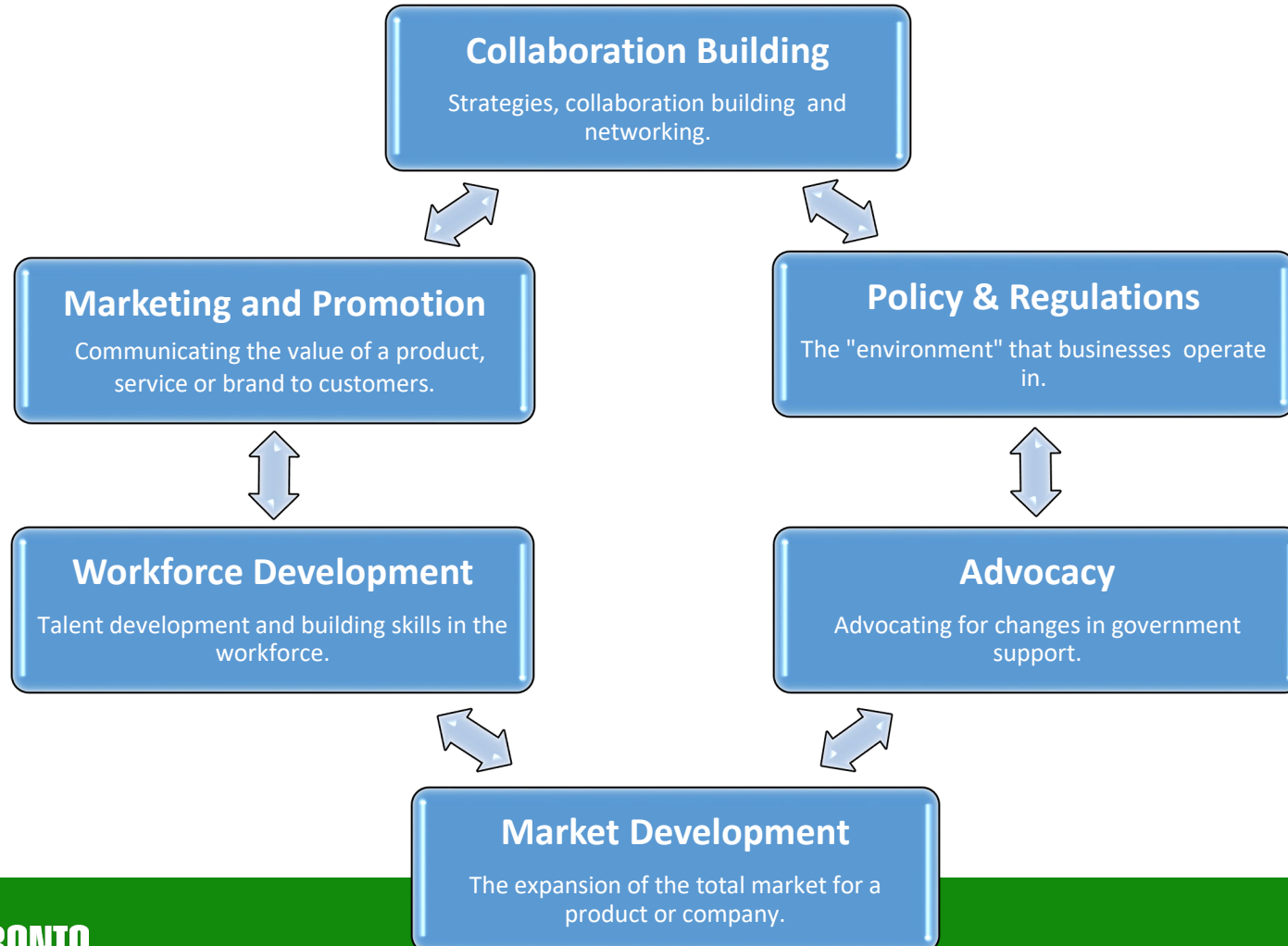
# Toronto – the Driver of Canada's Economy

- The GTA produces nearly 20% of Canada's Wealth





# Key Drivers to Economic Growth





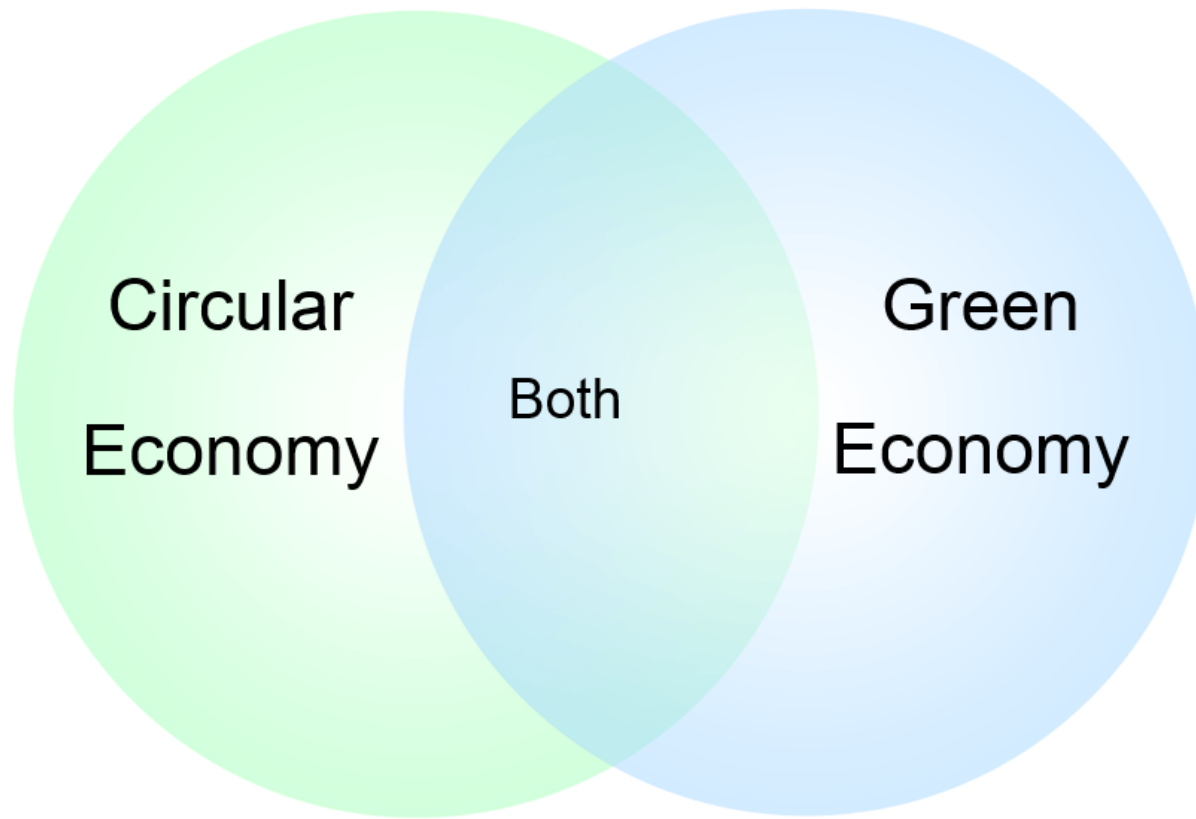
# Green Economy and the Green Sector

- Confusion reigns on the difference
- The Green Sector
  - Companies (and affiliated organizations) that produce products and services that have significantly less impact on the environment than alternatives. So manufacturers of solar modules (and their installers), makers of bikes (and bike repair shops), recycling companies.
- The Green Economy
  - Transitioning of all businesses and other elements of society to be less environmentally impactful. So companies who use solar modules to reduce their non-renewable energy consumption, courier companies that use bikes. Companies that are participating in the green economy can be in all sectors of the economy and are the customers to green sector companies.
- A growing green economy requires a robust green sector. To maximize political and social support for the green economy requires showing the local economic benefits directly linked to local economic green sector activities.





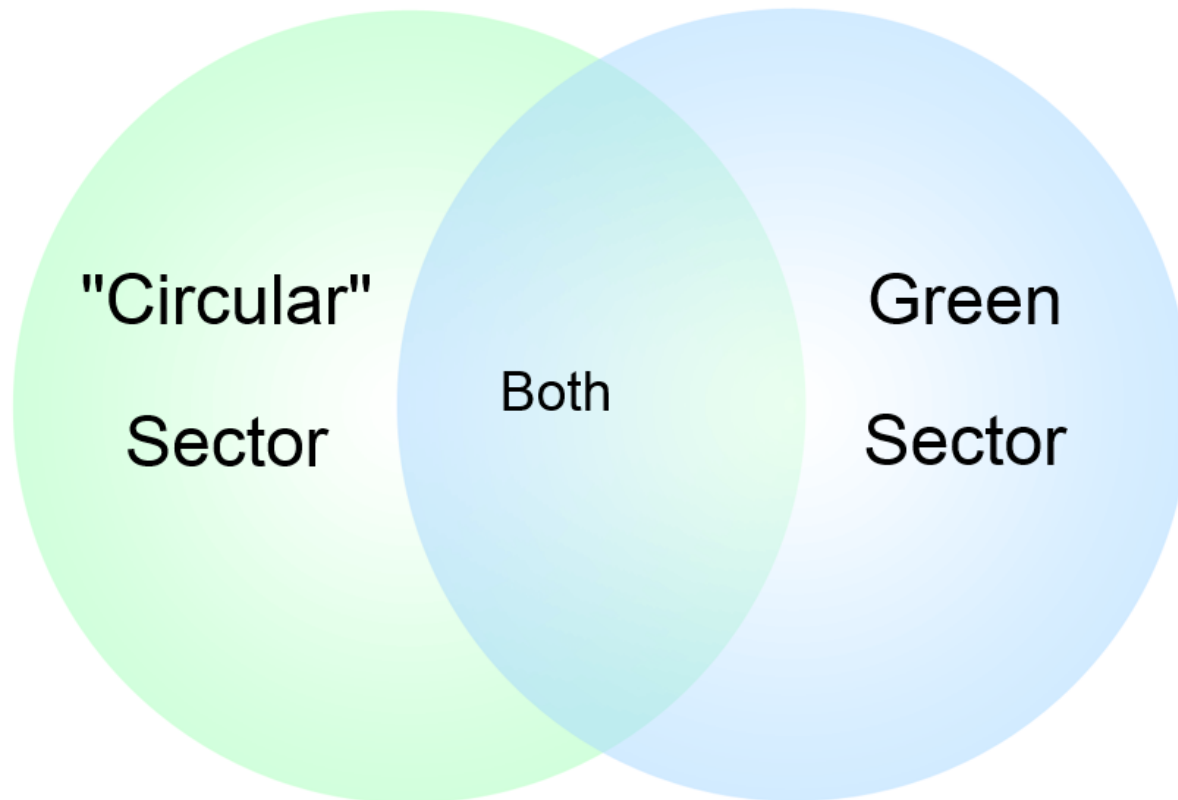
# Linkages between the “Economies”





# Linkages between the Sectors

- Experiences and knowledge sharing between the green sector and the “circular” sector might be valuable





# Toronto's Diverse Green Sector

- Clean-tech, green-tech, the green economy – what is it?
- Understanding the economic impact of Canada's green sector is hampered by a lack of national statistics and definitions of what the green sector is composed of.
- The City of Toronto defines our green sector as follows:
  - Economic activities that reduces environmental impacts through: 1. Environmental protection and remediation activities; 2. The sustainable use of natural resources; 3. The supply chain of goods and services that are significantly less energy or resource intensive than industry standards.
- Toronto's green sector is composed of 5 key segments:

Segments	Examples
Bio-Economy	Urban sawmills, furniture made from urban wood, green chemistry (bio-plastics), bio-fuels.
Clean Energy	Solar, wind, batteries, district energy, smart thermostats, LED lights.
Green Buildings	Energy efficient windows, green roofs, builders.
Resource Management & Environmental Protection	Water supply and sanitation, recycling, solid waste, soil remediation, pollution controls, environmental monitoring.
Sustainable Transportation	Electric vehicles, bikes, scooters, buses, trains, and public transit.



# RE: Toronto's Diverse Green Sector

5 Sections  
22 Clusters





The diagram illustrates the structure of a Cluster Organization. At the center is a large blue circle labeled "Cluster Organization". Surrounding this central hub are ten smaller blue circles, each representing a different stakeholder group. These groups are connected to the central hub by thin blue lines, indicating a networked relationship. The stakeholder groups are arranged in a ring around the center, starting from the top and moving clockwise: Supportive Govern'm't, Incubators, Financers/Investors, Research'rs, Manufact'rs, Start-ups, Retailers, Service Providers, Profession Services, and Schools. The entire diagram is set against a light blue background with a green base at the bottom.



## Some linkages between the Green and “Circular” Sectors

	Green “Cluster”	Examples
1.	Resource Management	Recycling of raw resources
2.	Sustainable Transportation	Bike Share
3.	Bio-Economy	Urban Wood (utilizing locally fallen trees for economic activity)
4.	Green Buildings	Building material reuse (recycling of produced products i.e. furniture)

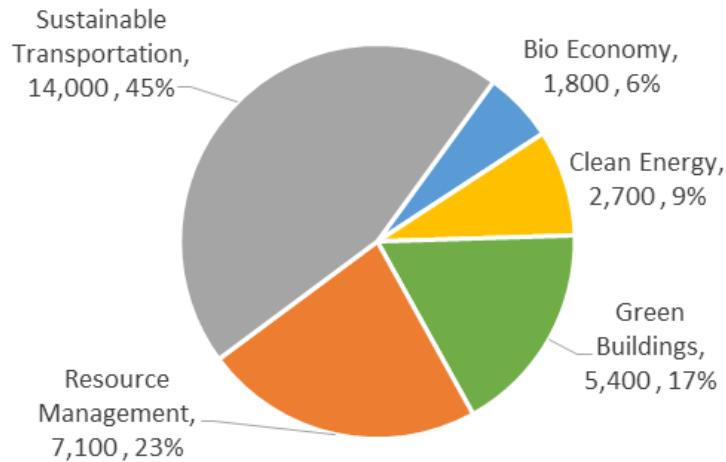
**Where are there other linkages?**



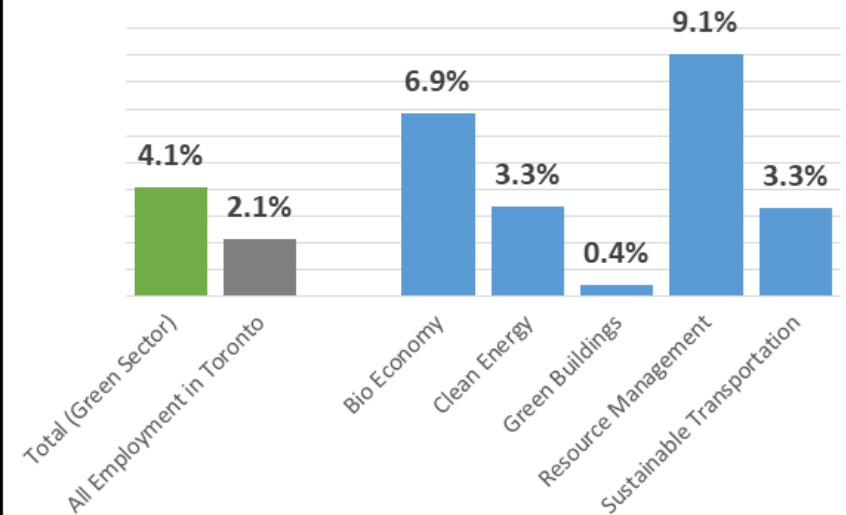
# The State of Toronto's Green Industries

- Significant growth in 2 of the segments
- Average annual job growth in the green sector is double Toronto's average

Distribution of Jobs in Toronto's Green Sector (2017)



Green Sector Employment Growth  
(compounded average annual for 2012-2017)





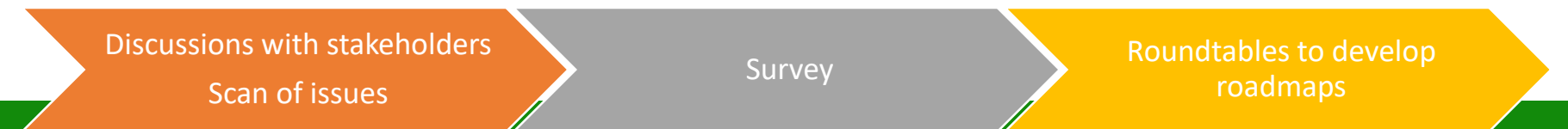
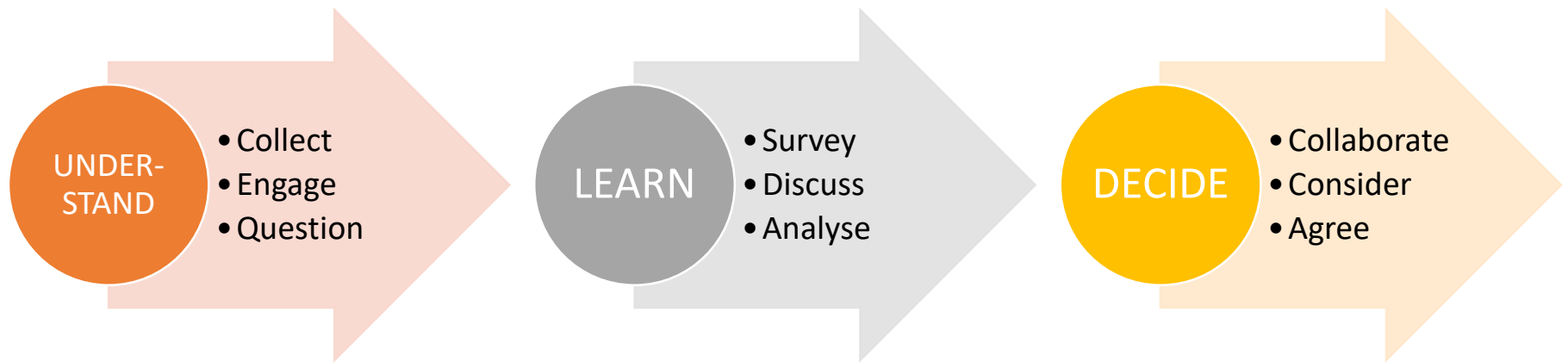
# The Toronto Green Industries Growth Roadmap Initiative

- The project has a number of distinct stages of development and must account for the very distinct nature of each of the sector's five primary segments.





# Toronto's Green Industries Growth Roadmap Initiative





# Understanding the “Circular” Sector

- What are the local companies and stakeholders that create economic activity in the circular economy using the circular principles?
- What is needed for them to grow and prosper?
- How can influencers (City, other governments, advocates) support the growth of the sector?



**Contact Information**  
**Rob McMonagle**  
**Advisor to the Green Sector**  
**Sector Development Office - Economic Development &  
Culture**

[rmcmona@toronto.ca](mailto:rmcmona@toronto.ca)



# **Linda Swanston**

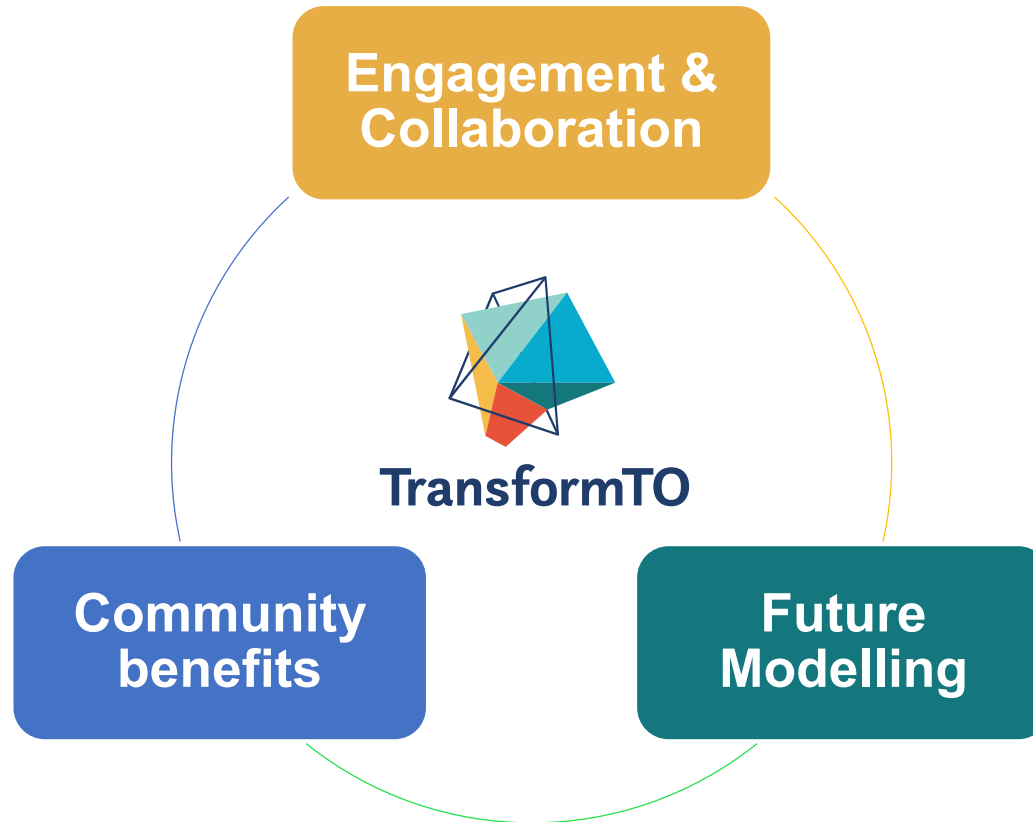
**Program Manager, Policy & Research  
Environment and Energy Division**

**TransformTO:  
Climate action for a healthy, equitable,  
prosperous Toronto**

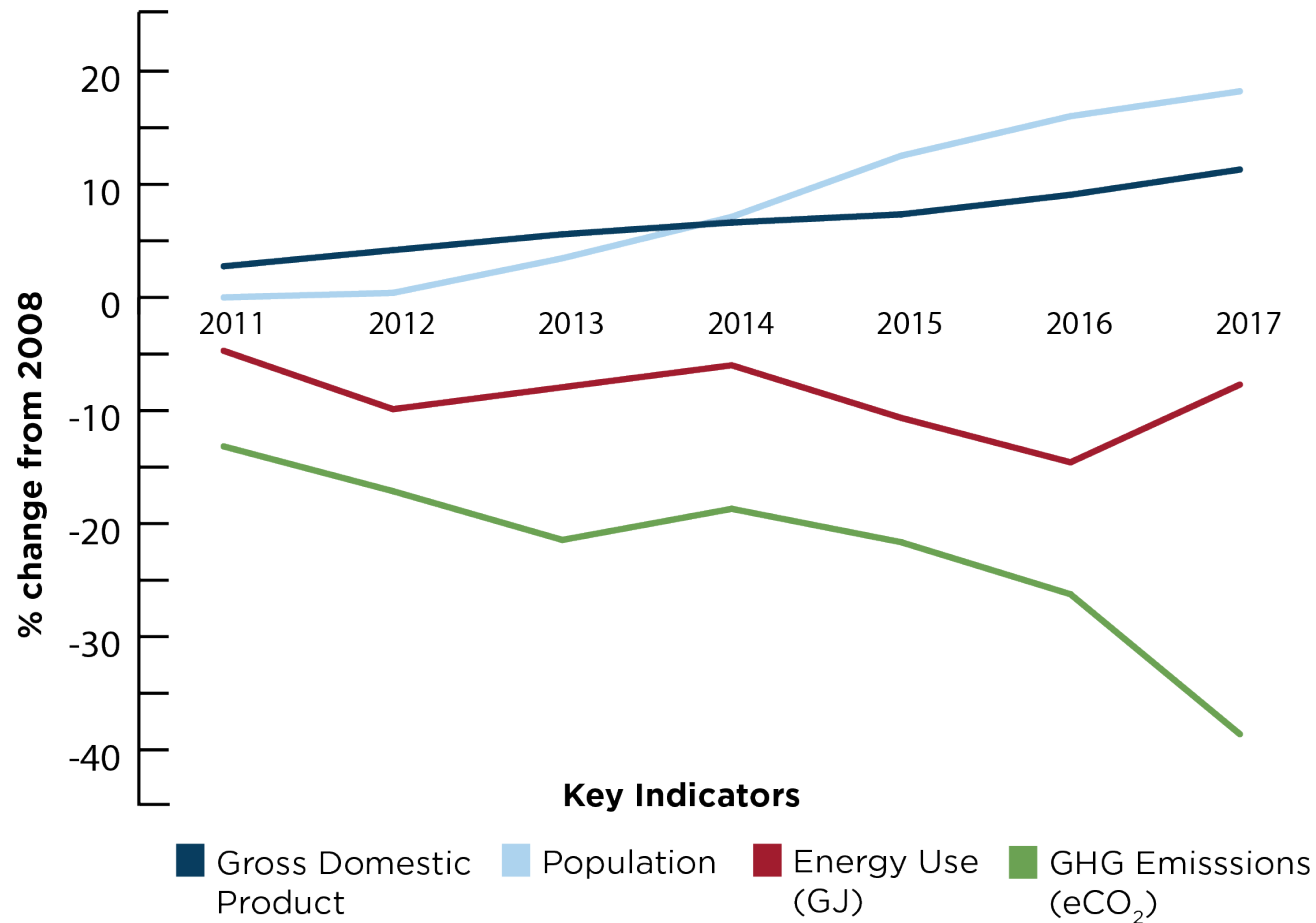


# GHG Emissions in Toronto

Identify a path Toronto can follow to become a low-carbon city by 2050:



# Direct GHG Emissions in Toronto



# TransformTO's Guiding Principles



Advance social equity



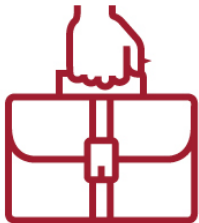
Protect low-income residents



Improve affordability particularly for vulnerable population



Enhance and strengthen the local economy



Maintain and create good quality local jobs



Improve public health

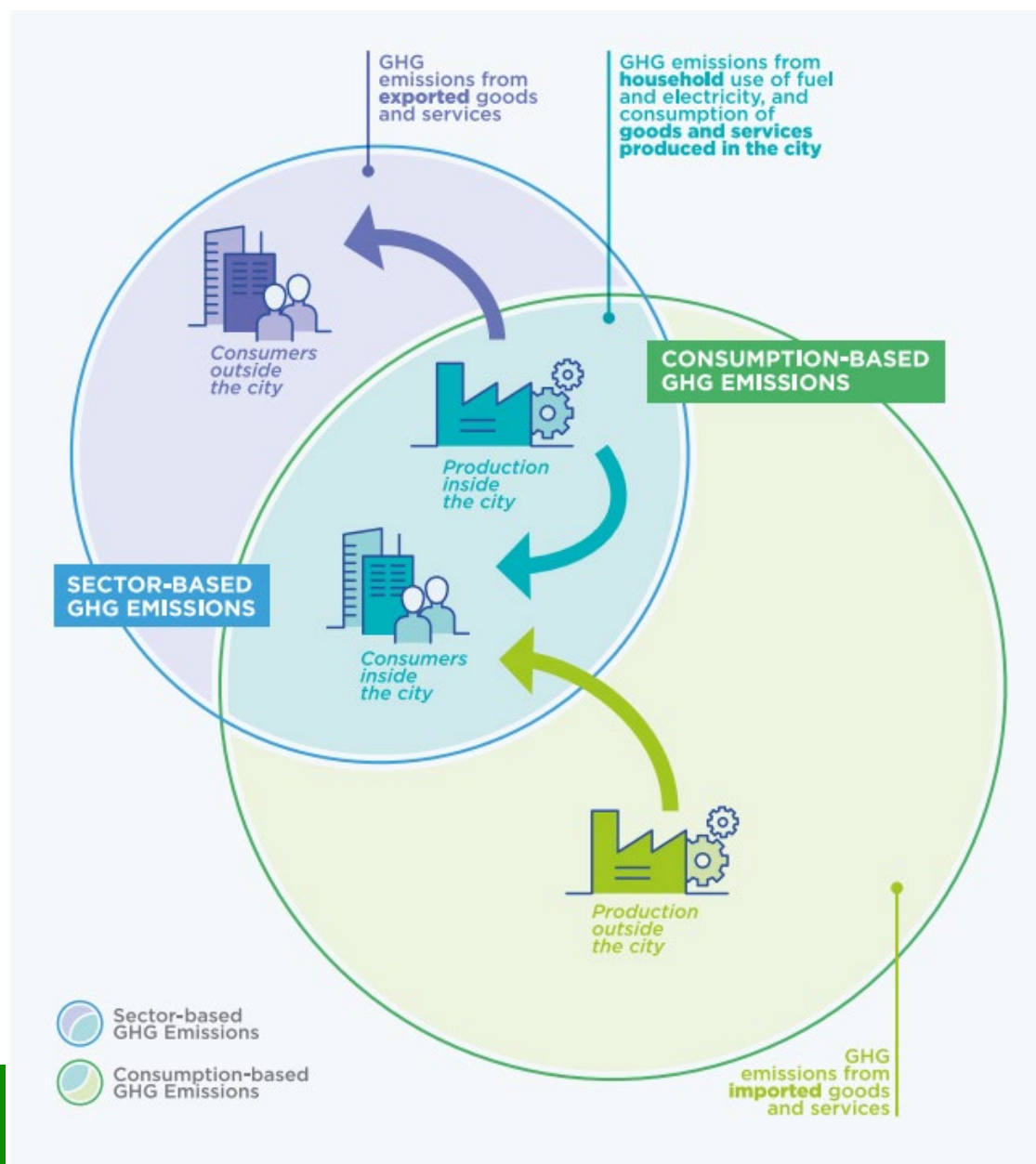


Contribute to poverty reduction

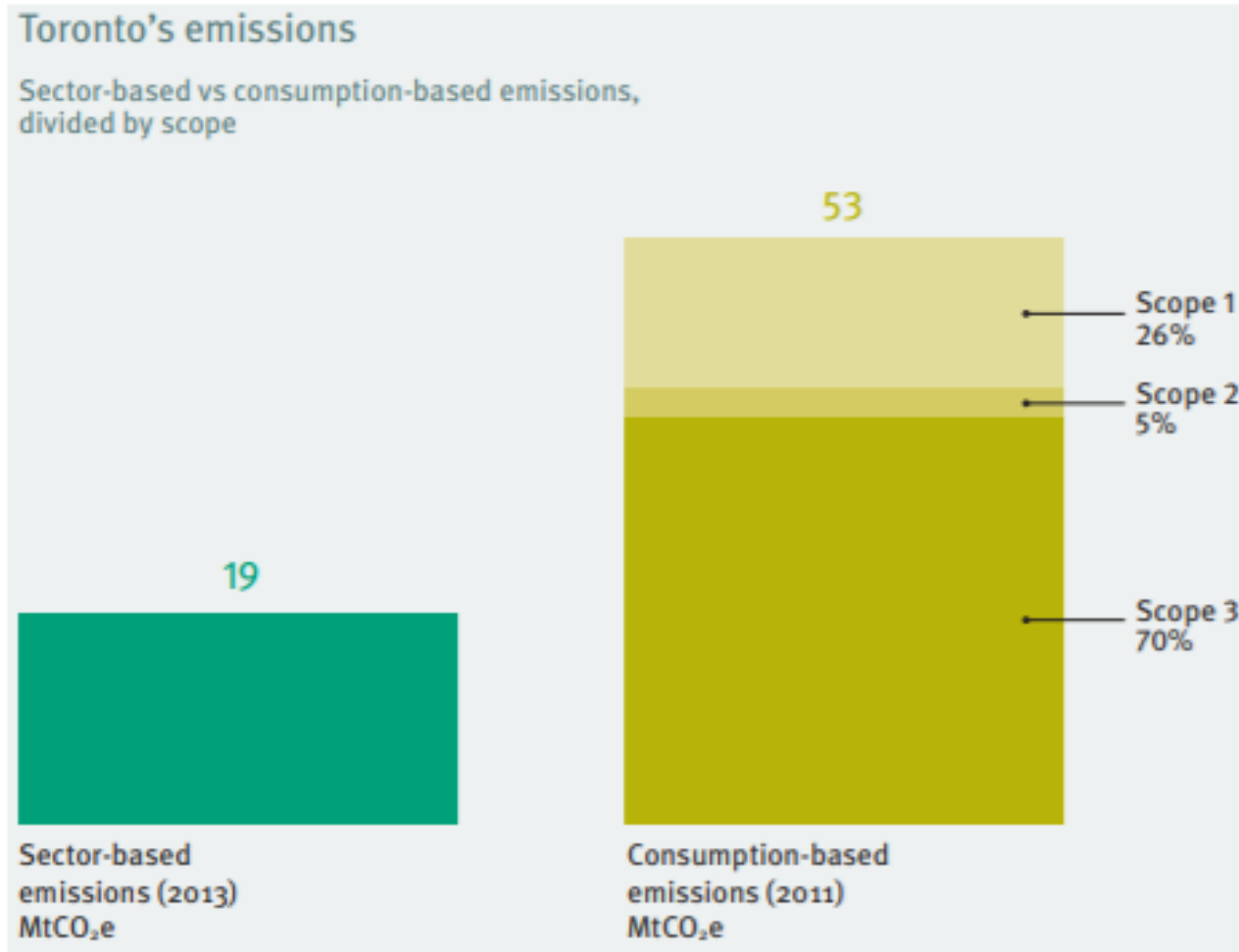


Create resilient communities and infrastructure

# Sector-based vs. Consumption-based GHG accounting



# Toronto's GHG Emissions Estimates



# Circular Economy & GHG Emissions



**33%**

**2016 Deloitte study  
found that recycling  
and reuse in key EU  
sectors could reduce  
embodied carbon by  
33%**

**Linda Swanston**  
**Program Manager, Environment & Energy**  
[\*\*linda.swanston@Toronto.ca\*\*](mailto:linda.swanston@Toronto.ca)

**TransformTO**

## TransformTO Accomplishments

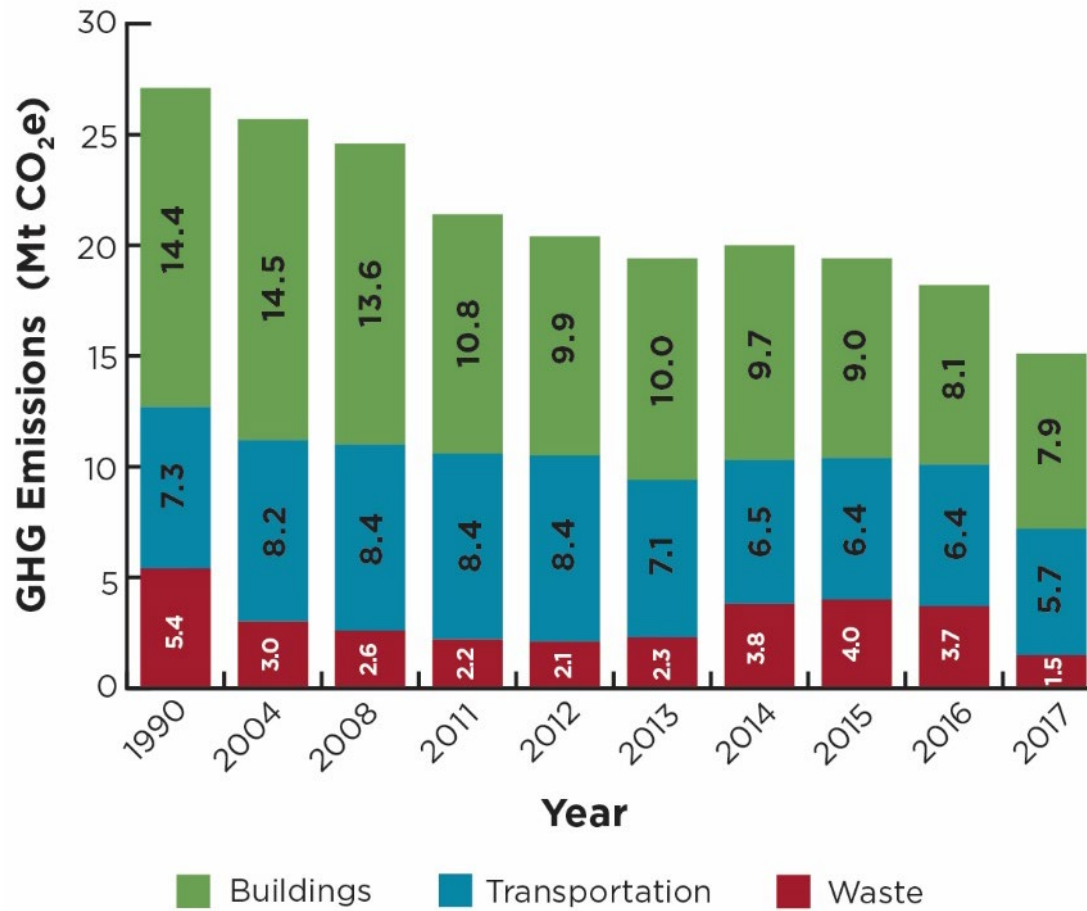
- Community-wide greenhouse gas (GHG) emissions in Toronto were **44 per cent lower in 2017 than in 1990**, the result of cumulative action by all orders of government and a significant response by the community and private sector.
- City Council's investment in TransformTO has helped **the City to leverage over \$135 million from external sources.**
- In 2019, Toronto was one of 43 cities around the world to receive an '**A**' grade from **CDP (formerly the Carbon Disclosure Project)** for its climate leadership.
- **All short-term TransformTO actions approved by City Council in 2017 are complete or in progress.**



# TransformTO's Community Benefits

- In Ontario every \$1 million invested in energy efficiency programs yields 17-21 job-years and \$2.4 – 3 million in net GDP growth.
- For every MW of residential solar energy deployed created 20.9 job-years of employment and \$900,000 in GDP growth.
- 327,000 modelled person-years of employment for Toronto to become a low-carbon city.
- Electrifying mobility would avoid 280 deaths and 1,100 hospitalizations a year caused by exposure to traffic related air pollution in Toronto.

# GHG Emissions in Toronto



# TransformTO Implementation



**300 million**  
Green bond issued



**Neighbourhood  
Climate Action**  
Community Grants  
launched



**Mount Dennis back-up  
power battery project**  
installed by Metrolinx,  
eliminates need for  
natural gas generator



**Toronto Green Standard  
Version 3** in effect to drive  
near-zero emissions  
development



**Energy retrofits**  
of 21 Toronto Community  
Housing buildings



**100 Solar PV  
installations on  
City-owned properties**  
generating **12 megawatts**  
of electricity per year

# TransformTO Implementation



**Community reduce and reuse programs** in neighbourhood improvement areas



**King Street transit pilot** made **permanent**



**First net-zero**  
**City-owned building:**  
Mount Dennis childcare centre



**Electric mobility strategy:**  
Phase 1 completed



Joint development agreement with Enwave for **low carbon thermal energy networks**



**Expanded sustainable energy plan financing** scope to support the energy retrofit loan program



**Bike-Share Toronto** expanded by over 350% in three years

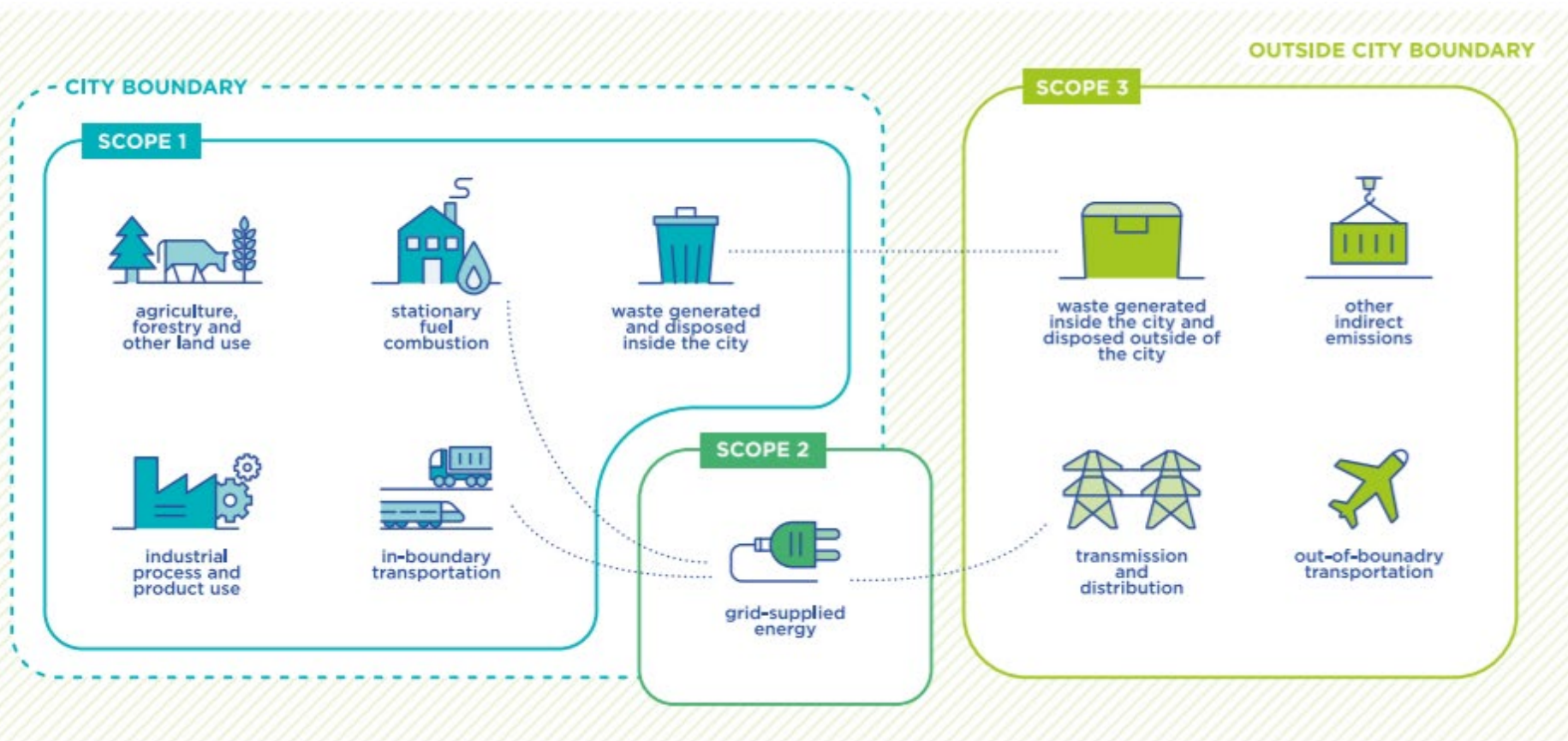


**100% Increase in Home Energy Loan Program (HELP) applications**



**Over \$10 million in financing** provided through **High-Rise Retrofit Improvement Support Program**

# Counting GHG Emissions



# Consumption Based GHG Emissions

For many cities, the biggest share of their total emissions are generated outside the city

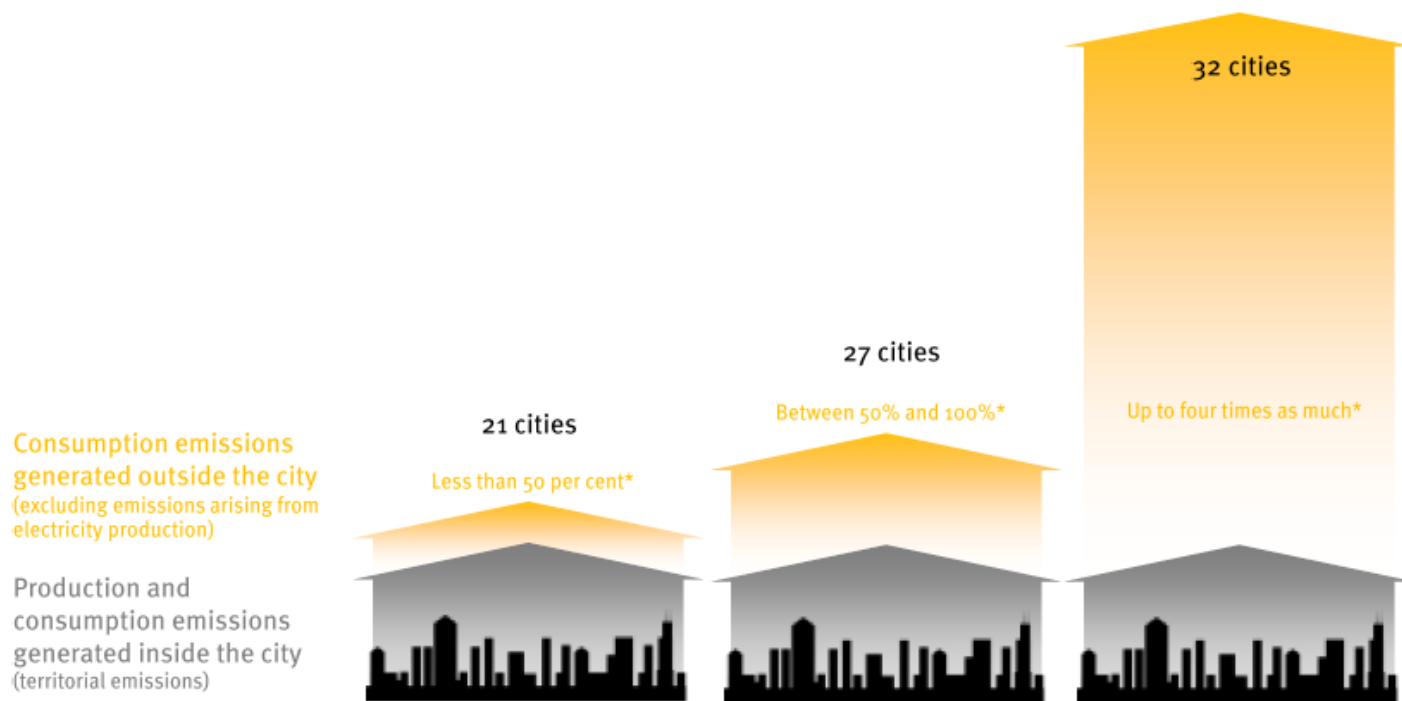
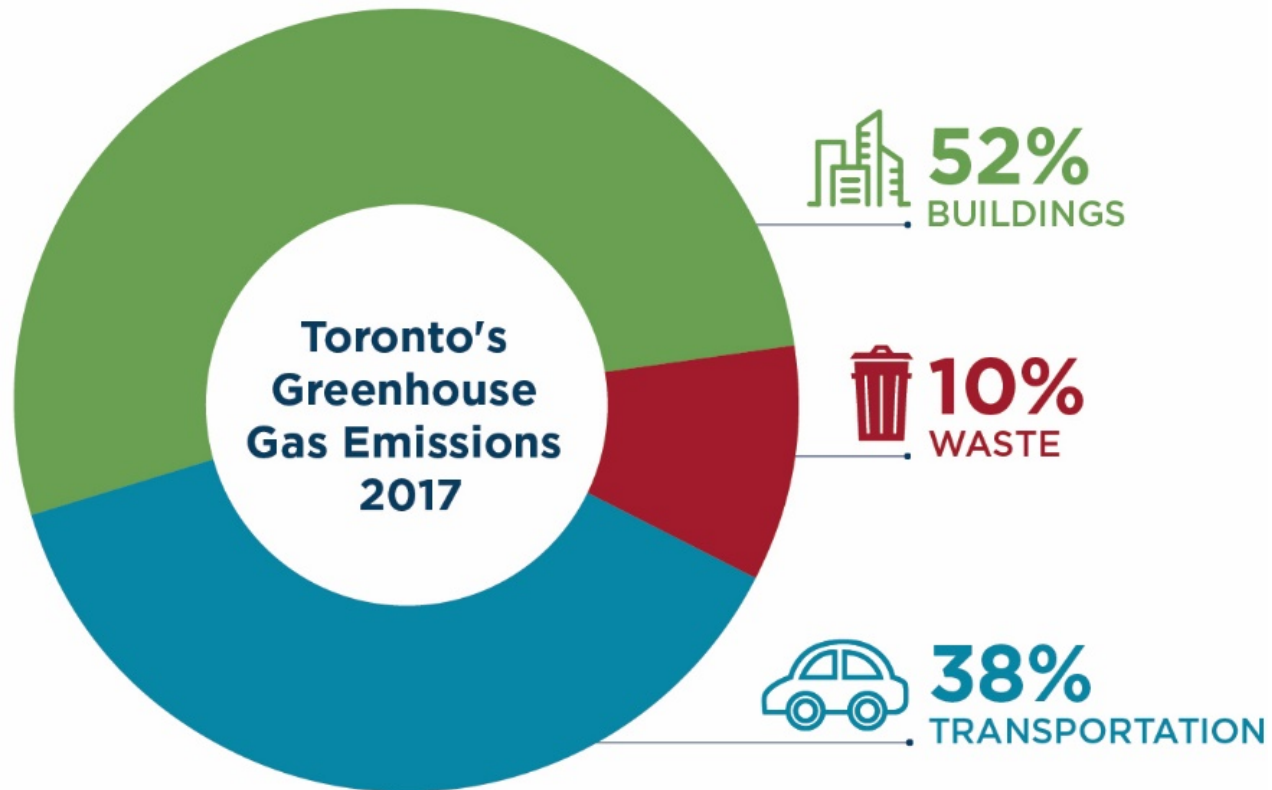


Figure 3 Comparison between territorial emissions and scope 3 emissions arising from consumption across C40 cities. \*Ratio scope 3 emissions vs territorial emissions.

# GHG Emissions in Toronto





# Residents are Concerned

## Climate Action Perception Survey Results



are concerned about climate change and its effects on Toronto and the GTA



recognize that there is a link between climate change and extreme weather events



agree that climate change threatens personal health and well-being



agree that everyone needs to reduce their emissions, myself included

However...



**48%**

don't know what they can do to address climate change



# Shayna Stott

**Planner, Strategic Initiatives, Policy & Analysis  
City Planning**

# Toronto's requirements for sustainable new development

Presentation to the Circular Economy Working Group

Shayna Stott, Policy Planner  
City of Toronto, City Planning Division

July 17, 2019

# What is City Planning?

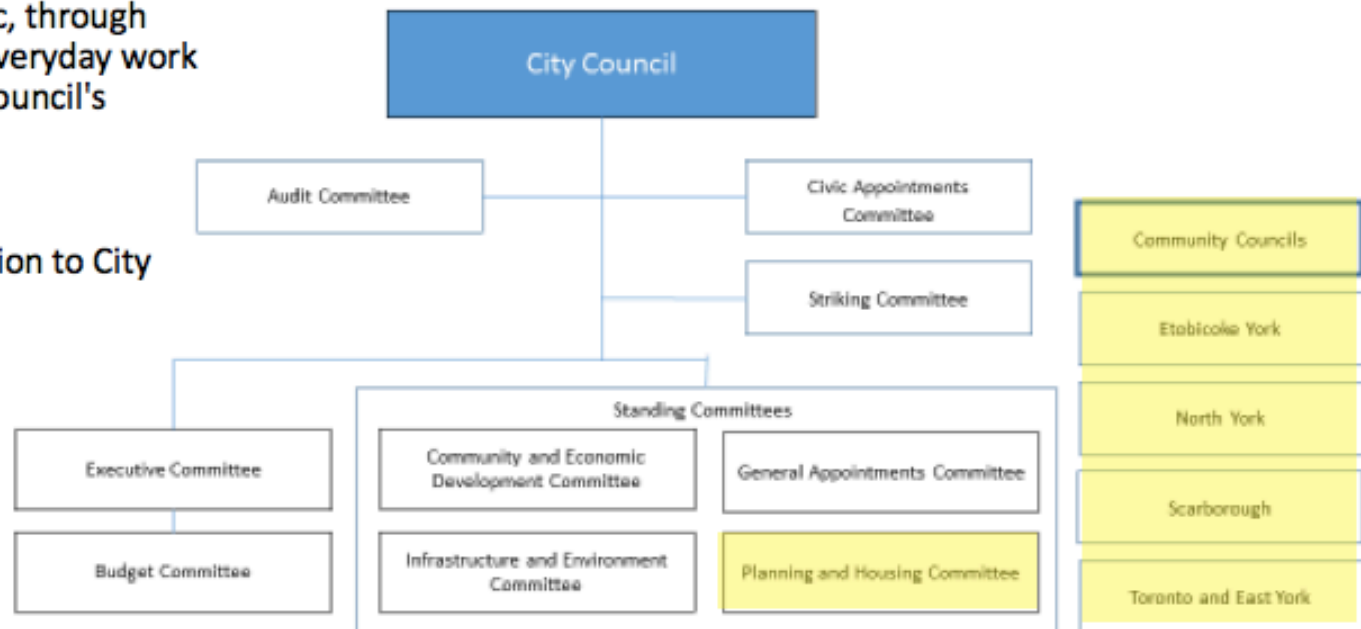
City Planners write policy and make recommendations on proposed new development to City Council with the objective of managing growth, change, and physical form of the City while balancing City-wide objectives with public, private and community interests.



# City of Toronto Council Structure

Issues are identified by the public, through staff research, or as part of the everyday work of running a city and achieving Council's priorities.

Committees make recommendation to City Council for Final Decision.



\*Special Committee on Governance

Most City Planning reports are routed through Planning and Housing Committee (e.g., city-wide policy matters) or Community Councils (e.g., development applications).

# Division Organization



- Application Review
- Business performance and Standards
- Civic design
- Committee of Adjustment
- Design Review
- Community Policy
- Environmental Planning
- Graphics and Visualization
- Heritage Preservation
- Official Plan Review
- Outreach and Engagement
- Public Art
- Research and Information
- Strategic Initiatives
- Transit Planning
- Waterfront Renewal
- Zoning By-law Review

# Downtown 2006

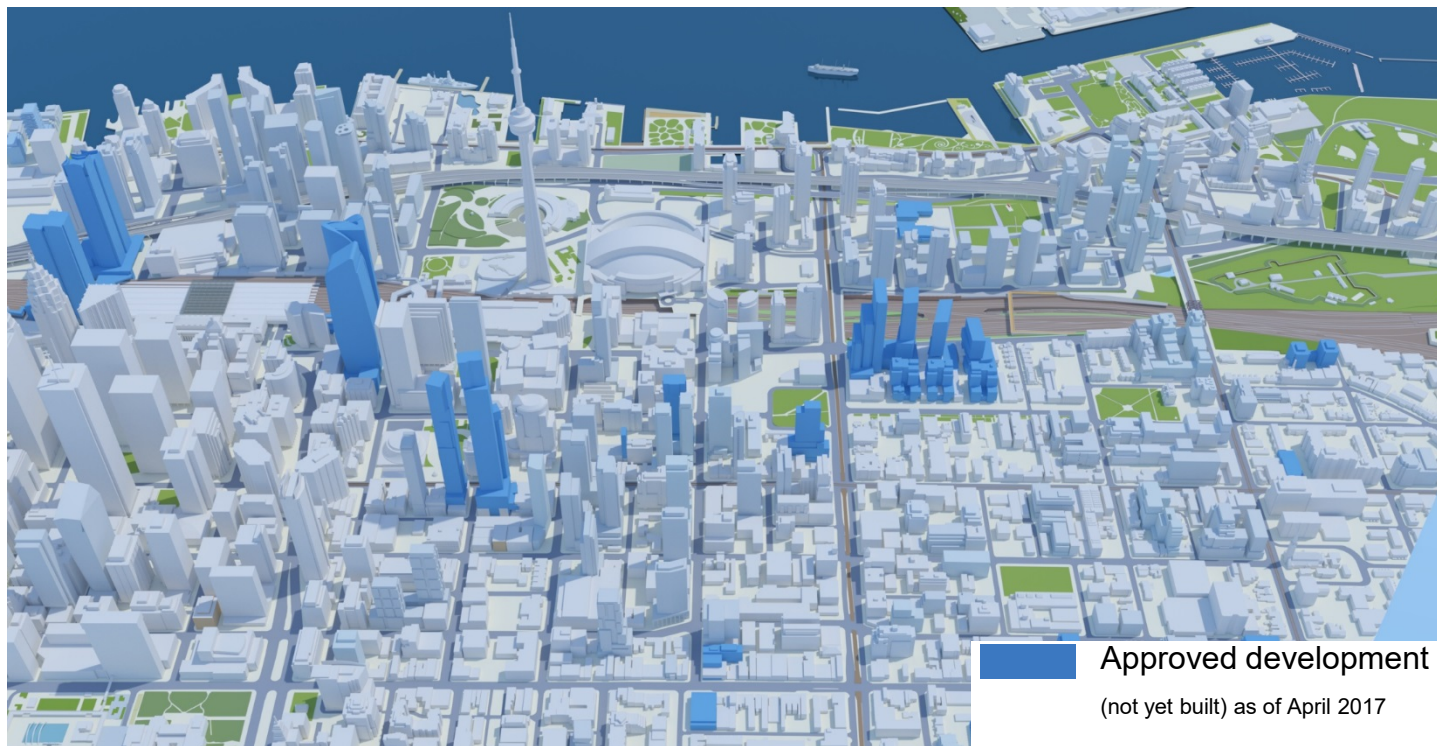




# Downtown 2017

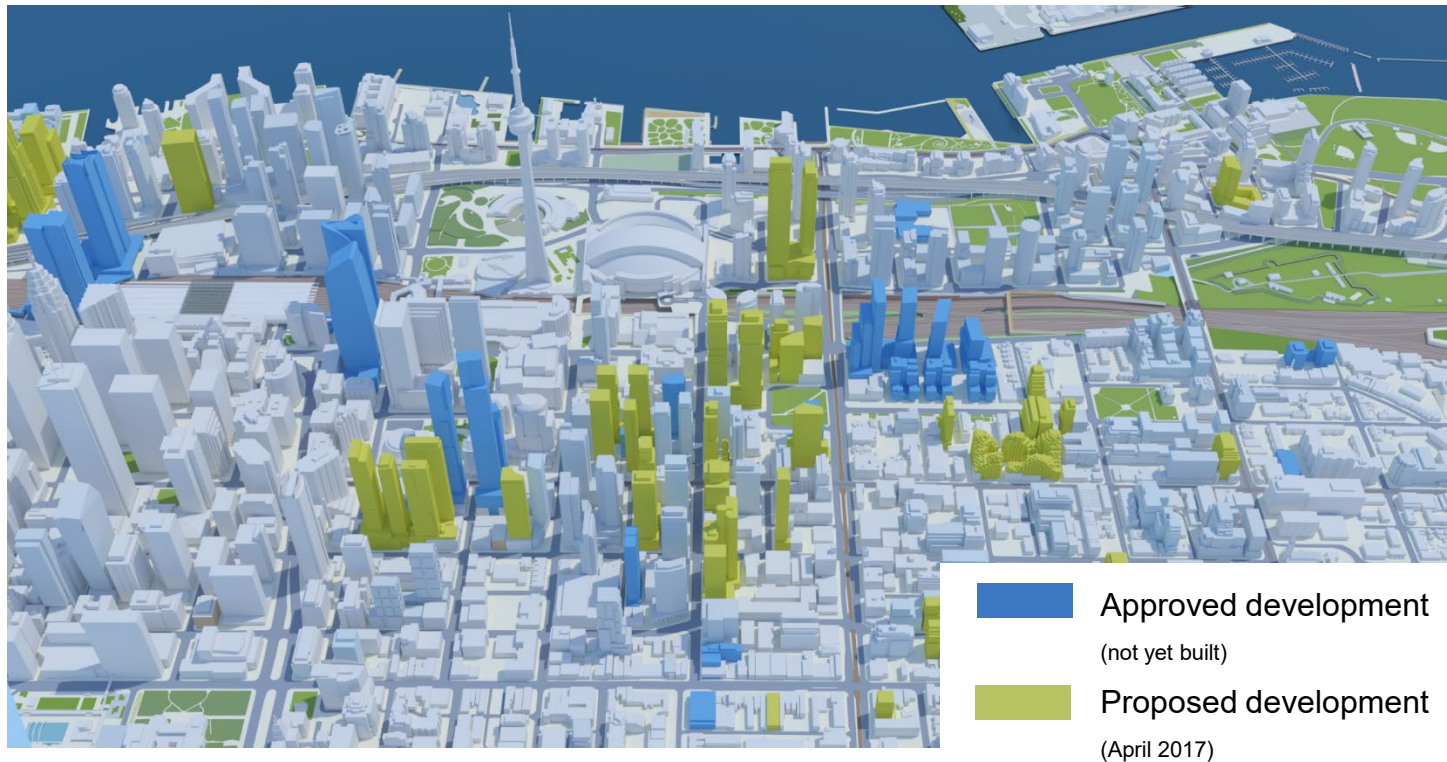


# Downtown Beyond 2017

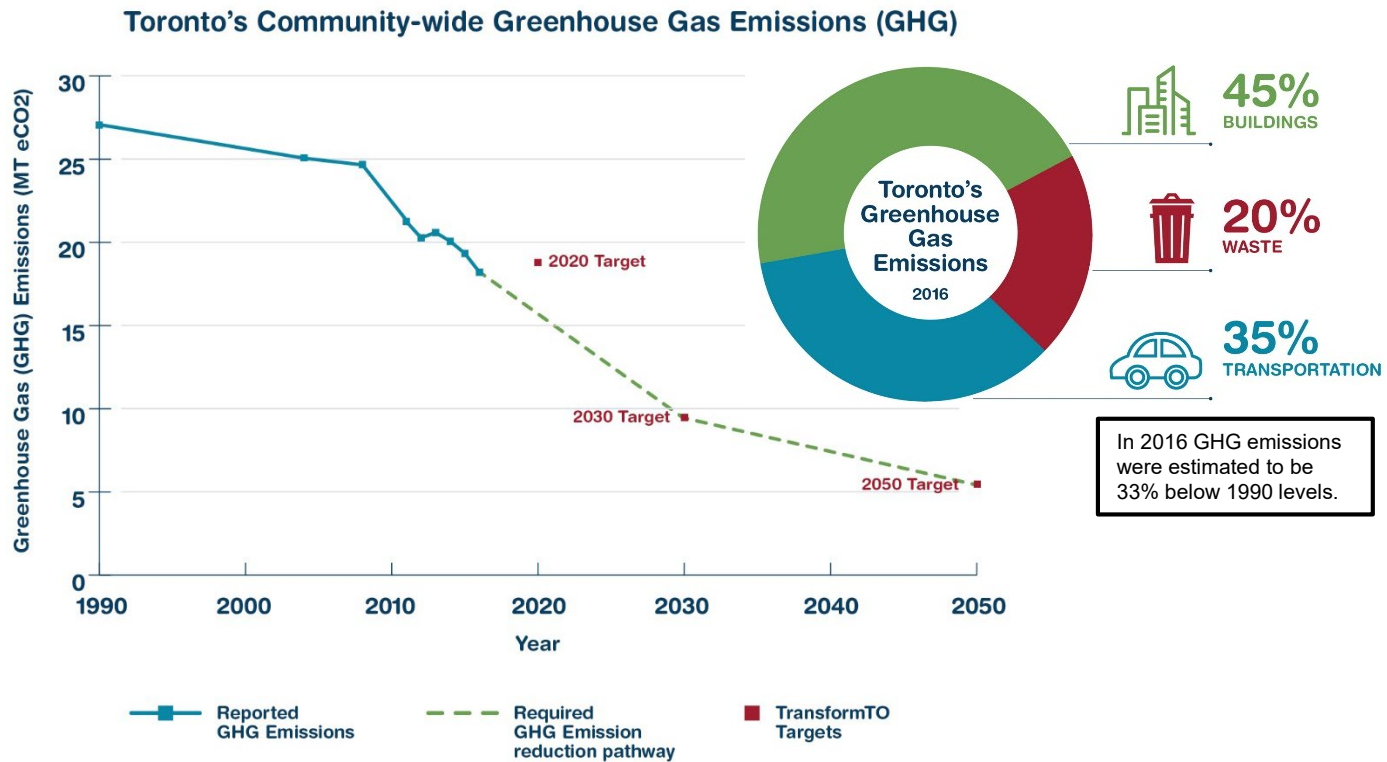




## RE: Downtown Beyond 2017



# Transform TO: Toronto's Community Wide GHG Progress & Targets



# The Official Plan

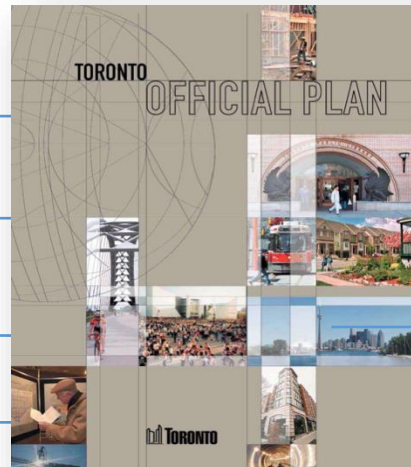
The City's Official Plan is a comprehensive, big picture document that guides the use of land, the scale and form of development, the transportation network, heritage preservation, our parks and natural areas, and many other aspects of the City. It helps us answer questions such as:

Where should the City Grow?

Where should the City remain stable?

Where do we build new streets and transit?

Are there enough parks?  
Where should we build more?



How should new buildings relate to their surroundings?

How do we protect our heritage resources?

How do we grow the City's rental housing stock

What kind of housing should the City support?

*Raising the Bar*



Policies

Municipal Official Plan



Sustainable (GREEN)  
Development Standards



*The Bare Minimum*

Zoning Bylaw



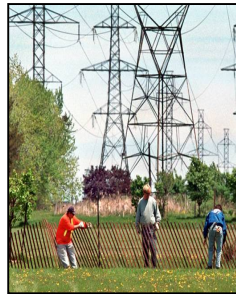
Ontario Building Code



Regulations

# Toronto Green Standard

**Air Quality**  
**GHG Emissions/Energy Efficiency & Resilience**  
**Water Balance, Quality & Efficiency**  
**Urban Ecology**  
**Solid Waste Management**





# Toronto Green Standard Version 3



- **Tier 1** required through planning process
- **Tier 2** voluntary higher performance incented through Development Charge Refund.
- **New Tier 3:** energy, water, waste
- **New Tier 4** energy & GHG targets

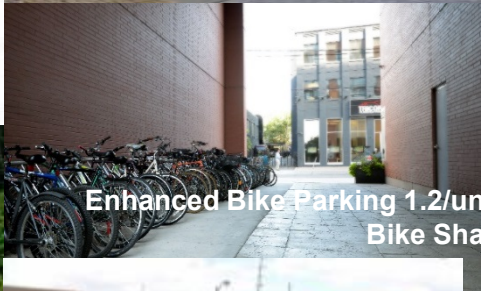
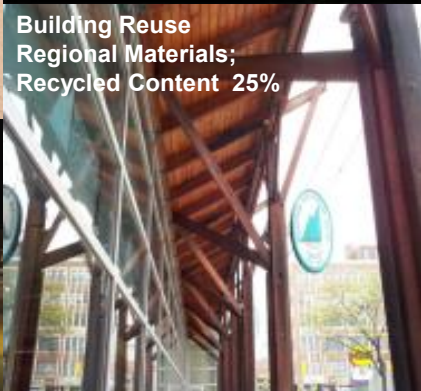
Aquabella, Tridel

# Tier 1: Minimum required standard



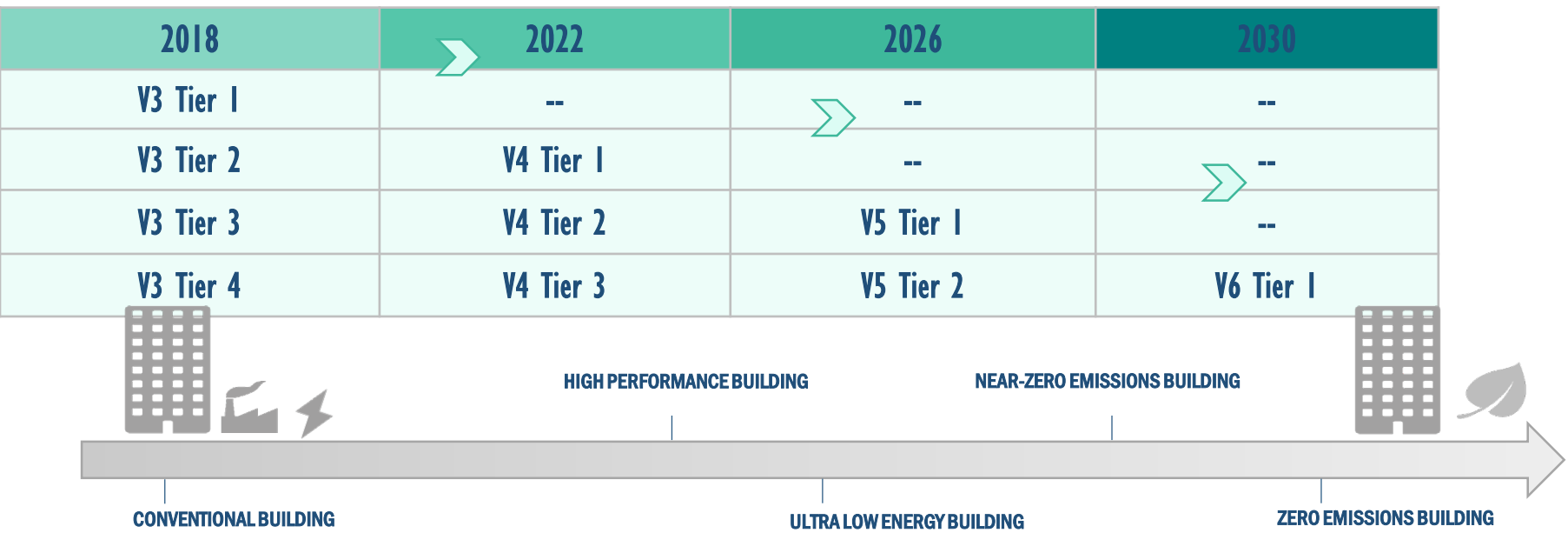


# Tier 2 - 4: Voluntary performance standard





# Pathway forward



# Solid Waste

## Waste storage/diversion

### Tier 1

#### SW 1.1 Waste Collection and Sorting

- Requirements for residential sorting systems for recycling, organics and waste



#### SW 1.2 Waste Storage Space

- Minimum floor space for storage in residential buildings

#### SW 1.3 Bulky Waste

- Minimum floor space

#### SW 1.4 Compaction

- Compactor for buildings 21 units or more

# Solid Waste

## Waste storage/diversion

### Tier 2

Core: Household Hazardous Waste Space

**Core: 75% construction & Demolition waste diversion**

Optional:      In-suite waste storage space  
                     Building Lifecycle Impact reduction  
                     25% of raw materials sustainably sourced.

### Tier 3

95% construction & demolition waste diversion

# Toronto Green Standard V3

## Shifting Market dynamics

### TGS V1/V2

- 1500+ developments
- 36 certified Tier 2 through DC refund program
- 60 applications in construction phase
- product development to meet TGS requirements



### TGS V3

- Industry leadership is changing
- Stronger than anticipated interest in Tier 3 or 4 level of energy performance
- Lower Tier 2+ condominium applications



# Toronto Green Standard Version 3

## City Leadership



- Tier 2 policy for City ACD approved March 2017
- Target net zero energy and emissions by 2026
- Zero Carbon Building Standard or Passive House certification



# Mt. Dennis Daycare, City's first Net Zero Facility

- 20,40SF
- Targeting Tier 3 TGS and CaGBC Zero Carbon Building Standard

## Building Envelope

- Roof R61
- Walls R35+
- Geothermal heat pump system
- PV on roof
- Water to air heat pumps







Pinnacle condo



PWC office

# The Toronto Green Roof Bylaw



Victoria Park Station



City of Toronto  
City Hall

# Market Transformation

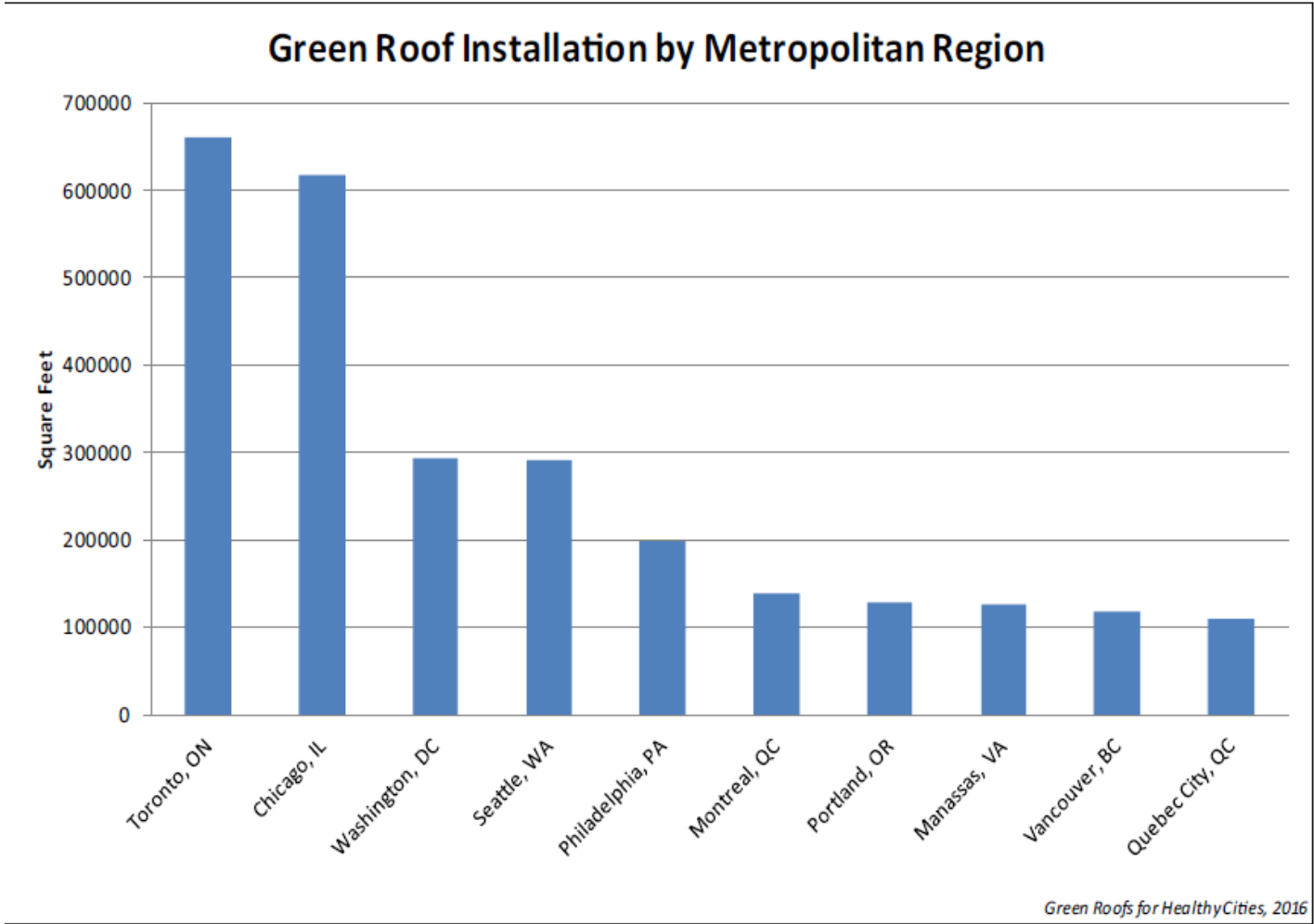


Figure 1 - Top 10 metropolitan regions recorded installed in 2016.



## Our achievements are increasing...

- 540,000 m<sup>2</sup> of green roof/ 625 green roofs built & under construction
- TTC/metrolinx has 100,000m<sup>2</sup> to date, the largest green roof owner

0 Front St. E

**Thank you!**

**[www.toronto.ca/transformto](http://www.toronto.ca/transformto)  
[www.toronto.ca/greendevlopment](http://www.toronto.ca/greendevlopment)**

# Questions?

Charlotte Ueta,  
Acting Manager Waste Management Planning

Linda Swanston,  
Program Manager, Energy and Environment Division

Rob McMonagle,  
Sector Development Office, Economic Development

Shayna Stott,  
Planner, City Planning

# Group Activity

# Group Activity – Sector Engagement Strategies

**Objective: To obtain feedback from CEWG on sector engagement strategies including:**

1. Options to encourage participation in CE for each sector
2. How to improve sector readiness to adopt CE models in business practices
3. Approaches for the City and CEWG to best communicate with sectors
4. Actions for CEWG members, City, and others to undertake to advance CE in each sector

## **How feedback will be used:**

- ✓ Inform next steps in development of City's CE procurement framework and vendor engagement implementation plans
  - How we engage, when, who with
- ✓ Start sector specific conversations between members
  - identify existing actions, and stimulate new ideas for implementation

Built  
Environment

Hospitality,  
food, and  
beverage

Waste  
Reduction &  
recycling

Design &  
Manufacturing

Textiles

# Sectors

**Built Environment:** Includes construction, management, operation, and demolition of residential and commercial buildings, park spaces, and infrastructure that make up our built environment.

**Hospitality, food, and beverage:** Includes the management of restaurants, hotels, supermarkets and catering services in addition to food and beverage suppliers.

**Waste Reduction and Recycling:** Includes the management consumer good reuse and repair spaces, composting, recycling and materials management, and disposal.

**Design and Manufacturing:** Includes packaging and product design and innovation, industrial technology and manufacture of consumer goods.

**Textiles:** Includes clothing repair and reuse, fabric and clothing design and manufacture, and textile recycling

Built  
Environment

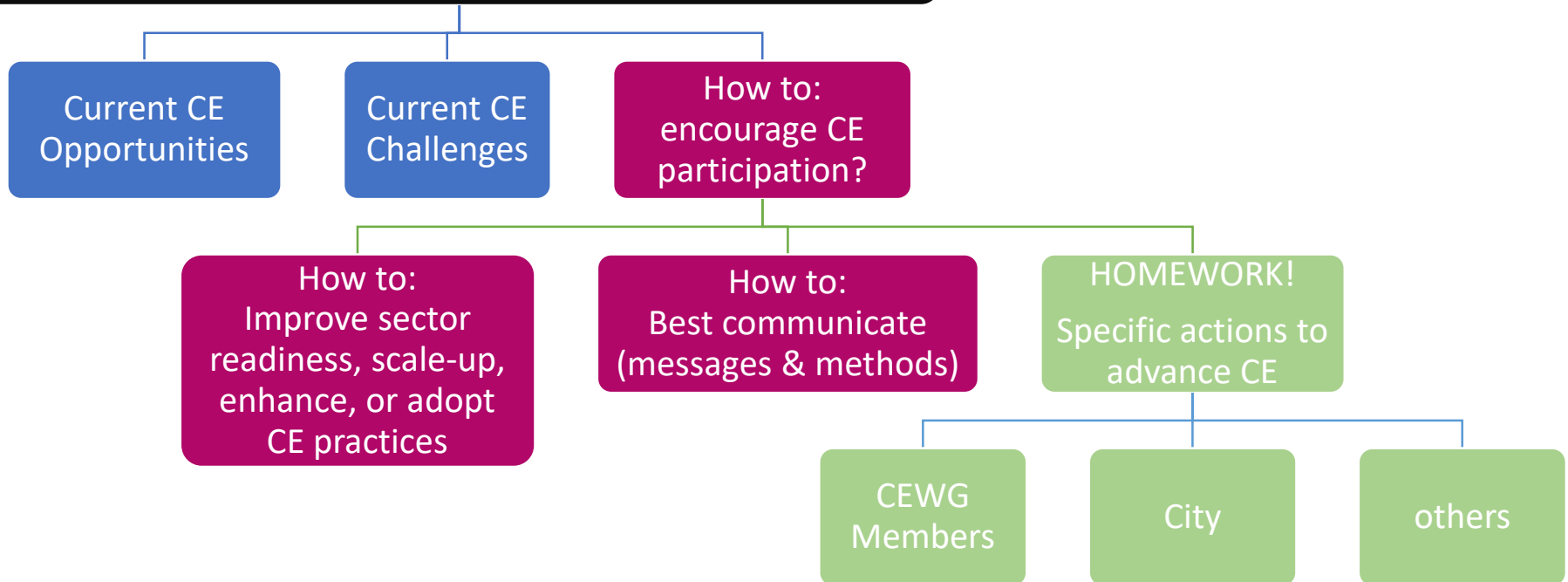
Hospitality,  
food, and  
beverage

Waste  
Reduction &  
recycling

Design &  
Manufacturing

Textiles

## What is the ideal state of CE for this sector?





# RE: Group Activity – Sector Engagement Strategies

## Process

1. Choose sector to focus on (expertise/high interest), and join table
2. Brainstorm ideas individually (10 min)
3. Facilitated discussions – Discuss and Fill in worksheet at table (30 min)
  1. What are the sectors current CE opportunities and challenges
  2. How could CE sector participation be encouraged?
  3. How could CE sector readiness be improved?
  4. How could CE information be best communicated?
4. Optional Report back – observations and key takeaways only (10 min)

Built  
Environment

Hospitality,  
food, and  
beverage

Waste  
Reduction &  
recycling

Design &  
Manufacturing

Textiles

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- ✓ Start sector specific conversations between members
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# Homework

## Sector engagement actions

What specific actions could be taken to advance CE in this sector?

- by CEWG members
- the City
- Other stakeholders

## Sub-group feedback

- What could sub-groups focus on/do?
- What could be their outcomes?
- How could they be structured/organized?  
(activities, leadership, location, # of meetings etc)
- What could be the roles of CEWG members and City staff?
- How would you be interested to contribute to a sub group? (if at all?)

# Announcements

- **Last call!**

Circular Economy E-Learning Modules through Ellen Macarthur Foundation. Email [Kathy.Raddon@Toronto.ca](mailto:Kathy.Raddon@Toronto.ca) ASAP.

- **Homework due September 3:**

1. **What specific actions could be taken to advance CE in [SECTOR]?**

- By CEWG members
- By the City
- By others

2. **Subgroup ideation**

- Areas of focus, outcomes, structure, leadership, member/staff participation, general interest and involvement

- **Other announcements?**

# Thank you!

- **Complete meeting evaluation & homework by September 2**
- Meeting 3: to be scheduled in Fall 2019

## Remember!

Sign-In

Return  
Member's  
Agreement

Return your  
name tag &  
workbook