

Circular Economy Working Group Meeting 3
Thursday, November 14, 2019
St. Paul's Bloor Street

Welcome, Objectives, City Update (Q+A)

Robyn Shyllit, Public Consultation, City of Toronto, 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 indicated that at the next meeting there will be a table for participants to share materials with others.

Overview of Meeting 3 Objectives

Robyn Shyllit presented on the objectives for the meeting.

Meaghan Davis, Manager at the Circular Economy and Innovation Unit presented on the Year 1 and Year 2 meeting activities.

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

Comment: The member wanted to thank staff because there was a single-use consultation on plastics organized for the film industry. The materials and support provided by City Staff was very valuable, and as a result the member's capacity was exceeded to be able to both deliver information and inspire leadership and feedback.

Member Question: Have any additional trends been observed regarding the single-use and take away item consultation?

Robyn Shyllit: Staff will be going through the responses in detail and looking for trends. We have seen that there is more variation in the feedback from Phase 2 compared to Phase 1. There were a high number of responses, including survey and attendance at public consultation events.

Meaghan Davis: there will be a report in 2020 to the Infrastructure and Environment Committee but we are unsure of the timeline. We will share information once we have it.

Introductions: GROW Goals partner check-ins

Robyn Shyllit directed members to do their GROW goal check-ins.

Terms of Reference Update (+ Q&A)

Robyn Shyllit discussed the updated terms of reference and policy for alternate members. Each member is required to designate an alternate who can attend meetings in their place. Alternates are required to fill in an application following the same information members provided at the beginning of their term.

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

Member Question: Will information be available to the alternate member?

Robyn Shyllit: It is the responsibility of the member to send resources to the alternate. The mailing list won't have the alternates on it.

Member Question: Is it possible to get more notice when the dates of the meetings are?

Robyn Shyllit: Yes, the full 2020 meeting schedule will be provided.

Meeting 2 Feedback Summary: Sector Initiatives and Subgroups (+ Q&A)

Robyn Shyllit presented on the Meeting 2 Feedback Summary.

Meaghan Davis presented on what was heard in the Meeting 2 activity on sectors and subgroups.

Member Comment: The member indicated that they would like to see that the focus area is not solely on textiles and branch out to other areas.

Conversation: What is a Resilient City? (+ Q&A)

Amy Buitenhuis, Resilience Lead at the City Manager's Office and **Meaghan Davis**, Manager of the Circular Economy and Innovations Unit, presented to the members about the steps Toronto is taking to become a resilient city.

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

Member Question: Can we show the presentation materials to other people?

Robyn Shyllit: Yes.

Member Comment: A member indicated that residents need tangible ideas to limit their impact on the environment. For example, the City previously provided incentives to buy toilets that required less water. The City should provide more incentives.

Amy Buitenhuis: we want to empower residents to take action in their neighbourhoods or within their businesses. The City provides tips on how to make changes. Amy Buitenhuis acknowledged that the City needs to be a leader.

Member Question: How as a city do we ensure that the economy isn't negatively impacted by circularity?

Amy Buitenhuis: It's important to consider how the nature of work may change as we prepare for climate change and try to reduce inequality at the same time. Amy added that the circular economy conversation is helpful in answering these questions.

Meaghan Davis: It's important to consider externalities while making decisions. We need to consider what impacts the City's decisions will have, both positive and negative. Reducing emissions and shifting to a circular economy will be transformative. It is important to consider good and bad outcomes as we continue to build policies and programs in this area.

Member Comment: A member indicated that there is an opportunity for manufacturers, suppliers and businesses to address inequality by creating work for people who may not be able to work on a regular basis (seniors, people with different abilities, people living in subsidized house, English as a second language).

Meaghan Davis, Manager at the Circular Economy and Innovation Unit presented on the Resilience Strategy Focus Areas.

Working Session: Circular City & Resilient City Alignment

Robyn Shyllit introduced the group activity of the meeting. Members reported back on group work documented in charts at each table on the next pages.

Group Work

Step 1: Ideation

INFRASTRUCTURE: Climate change, emissions, mobility options	
How could you describe circular infrastructure? What does it look like or do? Who/what is involved? Where is it? How does it function?	How could circular infrastructure impact resilience in Toronto? What are the opportunities? What are the challenges?
<ul style="list-style-type: none"> - Government policy/rules <ul style="list-style-type: none"> o Percentage of recycled materials o Material limits - Waste management - Expand on existing/use as base structure - Use of low carbon materials - Consumption reduction as first goal - Include recycled materials - Transportation - Links to areas with shared resources - Low-carbon - Infrastructure would accommodate for reuse, recycling, proper waste disposal in our communities, roads, systems, buildings, and supportive policies to drive it's use. - Responsive to change - Infrastructure that can be <ul style="list-style-type: none"> o Deconstructed o Developed → into different uses o Supports the local economy o Supports builders, occupants, architects, engineers - Local energy → reduce waste from transmission losses - Flexible employment - Free or low-cost public transit - Urban agriculture/ community gardens - Bring people together around growing food - Water capture → residential and multi-residential - Food culture → sharing, new tastes, food waste reduction - Food lens for all city depts. - Addresses isolation → improves health - Green roof - Modular - Infill - Rent/housing 	<ul style="list-style-type: none"> - Leverage investment already made - Reduce resilience on utilities - Minimize impact of climate change - Low carbon alternatives can reduce the city's footprints - Decentralize access – walkable, biteable - Interdependence, utilize and optimize local resources (people, businesses, energy, etc.) - Reduces risk - Opportunities: more adaptable buildings/infrastructure - Buildings can support some services → reducing food, local energy - Equity - Fewer cars on the road = lower emissions - Overcome food shortages, reliance on unhealthy foods - Let it take into account sustainability in design, it will be in effect more resilience - Challenges – money, loss of good design <ul style="list-style-type: none"> o Long consultation process (time) - Opportunities – spin the economy by hiring locally (building) - Efficiency will bring down costs over time - Increase jobs and stability - More comfortable, energy efficient - Buildings improve the quality of life - Reduce energy and carbon footprint - Reduce land fill needs - Decrease air water pollution - Livable buildings/ quality of life - Circular infrastructure would have health, built-environment and community benefits - Sourcing local materials

INFRASTRUCTURE: Climate change, emissions, mobility options	
How could you describe circular infrastructure? What does it look like or do? Who/what is involved? Where is it? How does it function?	How could circular infrastructure impact resilience in Toronto? What are the opportunities? What are the challenges?
<ul style="list-style-type: none"> - Multifaceted/multiuse it serves more than one function - Design takes into account all facets of sustainability (physical/emotional/environmental) it should be everywhere - Everyone should be involved - Design – focus on modularity for multiple use options - Focus on low carbon energy - Job creation - Repair and renovate - Recycle system - Property owners - Financers - Demolition – local crews, how case regulations for waste reuse (of concrete in roads) - Modernity – multi-use blocks - Waste content flows to other systems - Re-use of energy water - Replace systems that can't be upgraded - Flexibility - Circular infrastructure facilitates the reuse of shared amenities - Fundamentally, it functions by evaluating existing assets and aims to improve them using minimal intervention while achieving systematic change - Reconceptualise the flow of materials to see it as a resource - Activate various nodes to harness multiple goals - Sourcing local materials, people (build/repair) to build and develop modular infrastructure that can be easily updated/repared - Future state/next use, repurposing of materials used considered in development - Cradle to cradle - Design - Construction: modular, moveable, mobile and printed on demand - Utilization: multi-use 	<ul style="list-style-type: none"> - Challenge: are the materials/people/physical space available - Mobile infrastructure is movable against demand, modularity helps make it scalable, and multi-use parcels mixed land use taking away pressure from others - Improve city density - More green space for clearer cities - Massive infrastructure change

INFRASTRUCTURE: Climate change, emissions, mobility options	
How could you describe circular infrastructure? What does it look like or do? Who/what is involved? Where is it? How does it function?	How could circular infrastructure impact resilience in Toronto? What are the opportunities? What are the challenges?
<ul style="list-style-type: none"> - Ecosystem: built as part of a network (e.g. energy generation using batteries from electric cars) - Technology: digitally enabling - The future does not really need infrastructure. Our infrastructure today was built during industrialization. The future with digitalization is about dematerialization - Transportation (highways) to be built underground, freeing up valuable space above ground for housing and vegetation, because from underground highways could be harvested for plant productivity. Heating and cooling from underground highways could be used for housing (geothermal) 	

PEOPLE & NEIGHBOURHOODS: homes, community action, equity	
How could you describe circular infrastructure? What does it look like or do? Who/what is involved? Where is it? How does it function?	How could circular infrastructure impact resilience in Toronto? What are the opportunities? What are the challenges?
<ul style="list-style-type: none"> - Sustainable focus for education and training - Shared resources – utilities, food production - Community based structures, businesses, retail, transit, energy, and health - Connect to local businesses where there's transportation between businesses and as low as possible - Localized economies - Goods based on expertise - Create hubs in each community - Everyone valued → drives out skills - Community centres and hubs that look at environment waste management, shell development, community connectedness - Run by community members - Large multipurpose space → low cost centred from TTC - Make use of skills, needed takeout's - Pass along opportunities' (i.e. food waste) 	<ul style="list-style-type: none"> - Reduce transportation needs - Reduce energy consumption - Access to healthy/affordable food - Access to resilience/sustainable strategies - Lower birth rate - Making it easier to share resources could impact families directly - Able to support food production and distribution - Redevelopment of engagement, reduce feelings of vulnerability - Community connection <ul style="list-style-type: none"> o Skill sharing o Reuse o More jobs o Local small businesses - Challenges <ul style="list-style-type: none"> o Cost of space o Cost of staffing o Cost of equipment - Model new behaviours

PEOPLE & NEIGHBOURHOODS: homes, community action, equity	
How could you describe circular infrastructure? What does it look like or do? Who/what is involved? Where is it? How does it function?	How could circular infrastructure impact resilience in Toronto? What are the opportunities? What are the challenges?
<ul style="list-style-type: none"> - Community gardens - Incentivize zero waste communities - Commercial – community centres - Engagement (top down, bottom up) - Healthy, timely consultation processes - People look first to: (with local options this becomes easier) <ul style="list-style-type: none"> o Repair o Share/rent o Buy second hand/new - Green is good (act to reduce carbon footprint) - Using what we already have - Strengthening community relationships - Using a food lens - Skills valued and used (e.g. sewing, gardening, repair) - Community – not just livable - Inter-community connection – e.g. fixers and makers - Attentive to gaps in both who and how engagement occurs – consultations - Equal access to services for all individuals/neighbourhoods in Toronto - City provides space and resources to encourage local knowledge share of expertise and to exchange it - People right to grow food protected and encouraged - Food forests providing anyone increased access to food 	<ul style="list-style-type: none"> - Collectively craft new, unexpected solutions - Determine what resources are essential/vital - Food security - Support local/manufacturing which equals better jobs - Saves more - Finds local and affordable solutions collaboratively - Resilience improved by: <ul style="list-style-type: none"> o Making second hand goods affordable and available to lower income people o Create (flexible – good/bad?) o Opportunities for micro-entrepreneurs and social enterprises - Strengthening relationships means less need to rely on commercial goods - Reducing consumption means less reliant on things and more on connections and skills - Affects all people – increase in skill levels and self-sufficiency and social interaction - Reduce waste in the landfill - Increased skill - New businesses e.g. fixers - New volunteer opportunities - Promote diversity in growing with increasing the number of community groups provided the ability to be resilient rather than to be dependant

LEADERSHIP: civic engagement, trust, diversity	
How could you describe circular infrastructure? What does it look like or do? Who/what is involved? Where is it? How does it function?	How could circular infrastructure impact resilience in Toronto? What are the opportunities? What are the challenges?
<ul style="list-style-type: none"> - Community based decision-making opportunities - Abandonment of continuous growth strategy - Environment-first decision making lens 	<ul style="list-style-type: none"> - More responsibilities/democratic political process - Health as opposed to financial focus and outcomes - Leadership building

LEADERSHIP: civic engagement, trust, diversity	
How could you describe circular infrastructure? What does it look like or do? Who/what is involved? Where is it? How does it function?	How could circular infrastructure impact resilience in Toronto? What are the opportunities? What are the challenges?
<ul style="list-style-type: none"> - Revision of democratic process - Incubators for ideas that will increase circularity – small scale - Leaders in sectors embrace the concept of CE in their area <ul style="list-style-type: none"> o Architects design to deconstruct - Indigenous communities have hubs <ul style="list-style-type: none"> o Harmonious with nature → look at them for inspiration on how to make change in hearts and minds - Leadership open to change - Embrace change and ideas of all - Community leadership building - Grassroots development/emergence of leaders - Train/ full skill gaps to increase successes in working together/with others - Cultural diversions - Accessible - Easy to access - Removing word like “stakeholders” – engaging humans and citizens - Making the process easy, transparent, open and accessible - Decision makers should have to experience the outcomes - Not think in silos—circularity involves opportunities at intersections – e.g. do leaders know the experiences of poverty? - Inclusive - Consultative - Upstream/downstream view - Finding ways to compensate/pay people for the leadership and effort and support initiatives - Governments providing economic incentives to businesses that buy into the circular model. On the flip side, taxing businesses that are reluctant to adjust their model within city limits 	<ul style="list-style-type: none"> o Challenges <ul style="list-style-type: none"> ▪ Space ▪ Cost ▪ Incentives - To be bold to make a decision - Better decisions - More inclusive decisions - Big picture view

Step 2: Circularity Statement

INFRASTRUCTURE: Climate change, emissions, mobility options	
Notes	Statement
<ul style="list-style-type: none">- Key words<ul style="list-style-type: none">o Optimize- Local “cradle to cradle” infrastructure – impacts to health, transit, etc.<ul style="list-style-type: none">o Live where you work- Reuse- Evaluate exiting local stock as baseline resources- Modular and flexible, MULTI use- Evolution for needs overtime and change- Recognize values of existing infrastructure	CE infrastructure uses principles of adaptability, modularity, multi-use, and repairability to recognize the embedded value of existing infrastructure for future need in our community which makes us resource independent

LEADERSHIP: Civic engagement, trust, diversity	
Notes	Statement
<ul style="list-style-type: none">- Incubators<ul style="list-style-type: none">o Private leaders- Community based- Abandonment- Revision of democratic process- Abandoning engagement models- Transparency; clear lang.- Process/system – effective?- Leadership in many spaces<ul style="list-style-type: none">o Multi-layer- Industry linkage – via tech- connectivity of people/process- Share best practices- Can’t forget to include w/n pop<ul style="list-style-type: none">o Decision makers “feel” decisions- Accessibility- Sharing- Boldly resourceful- Accountability- Seen first through an environmental lens	In a Circular Economy, leadership is a principle based and environmentally based driver informed by accessibility and clear language. Leadership needs to be bold and resourceful.

PEOPLE & NEIGHBOURHOODS: homes, community action, equity

Notes	Statement
<ul style="list-style-type: none"> - Food lens – urban agriculture/ community gardens - Shared space - Social interaction - Need for commercial kitchens <ul style="list-style-type: none"> o Skills, culture, food sharing - Local x2 <ul style="list-style-type: none"> o Jobs o Maker of jobs - Neighbourhood <ul style="list-style-type: none"> o Infrastructure <ul style="list-style-type: none"> ▪ Green roots ▪ Community gardens - Second hand available - Consumption - Needs (multipurpose) community centre <ul style="list-style-type: none"> o Needs to exist o Location/accessible o Incentives to bring people - Friends - Isolation - Incentives - Use of space <ul style="list-style-type: none"> o Affordability o Equality - Library <ul style="list-style-type: none"> o Beyond books o Communicate - Challenges: <ul style="list-style-type: none"> o Isolation o Accessibility o Resources o Capacity 	<p>A Circular city/neighbourhood/community extracts less and shares more and takes responsibility for everyone which makes it able to draw on local skills and resources (talents, food, water, space) and less reliant on new resources to find affordable solutions collaboratively.</p> <ul style="list-style-type: none"> - A circular city/neighbourhood/group of people/ community is: <ul style="list-style-type: none"> o Brings people together o Has common interests/empowers people o Reflects the city o Shares resources/knowledge o Engages in activities - which makes it: <ul style="list-style-type: none"> o less reliant on new resources (food, water, space) o more able to use local resources o more able to re-use/share resources and take care of each other o find solutions collaboratively

Report Back

Robyn Shyllit moderated the group report backs.

Infrastructure

Members indicated that:

- Circular Economy infrastructure uses principles of adaptability, modularity, multi-use, and repairability to recognize the embedded value of existing infrastructure for future need in our community, which makes us resource-independent. Being resource-independent doesn't mean that we don't need resources anymore; it means that we don't need external resources; we can use local resources.
- Local was a common theme; they want to use the resources available and be adaptable.
- It is understandable that, for future needs, there will be external inputs but want to focus on the local, resulting in more resilience.

People & Neighbourhoods

The member indicated that a Circular city, neighbourhood and community extracts less, shares more and takes responsibility for everyone, which makes it able to draw on local skills and resources (talents, food, water, space) and be less reliant on new resources in order to find affordable solutions collaboratively.

Leadership

The member stated that leadership needs to be bold and resourceful, and make decisions using all lenses of environmental principles, as well as be accessible.

Wrap up & Next Steps – Meeting Adjourns

Meaghan Davis spoke about the upcoming meeting on March 9, 2020: Idea Pitch & Solution Circles.

Robyn Shyllit asked if there were any Member Announcements.

A member informed other members of the George Brown Sustainable Apparel Program which is having a sustainable fashion panel on December 3, 2019 at 11am. The member indicated that the panel is only 50 minutes and is student-run and there will be great guests.

Robyn Shyllit adjourned the meeting and provided the meeting dates for next year.

Sub-Group Discussion

Robyn Shyllit and **Meaghan Davis** moderated the sub-group discussion. Approximately ten members joined the discussion.

Meaghan Davis indicated that the City is looking to have a discussion with members who are interested in participating in a sub-group to define the purpose, activities and logistics of sub-groups. **Meaghan** asked the group for feedback on what the sub-group would do.

Subgroups/ Project ideas

- Collaborate on member-specific ideas and gain support/branding from the City of Toronto
- Could be spin-off of the idea pitch meeting
- Furniture Link wants to double the number of families reached
- Member wants a recycling centre attached to a farm or agency
- Member wants to get hands dirty and start with CEWG to develop solutions
- Consider household goods/textiles focus because of large volume
- Measure baseline and progress towards circularity in different sectors
- Could be an interdisciplinary group that looks at issues from a value chain step vs. specific industry/ sector
- Want City staff to provide note-taking services so that everyone can participate

Engaging with the City of Toronto

- Wants the City to be an incubator of ideas that provides tools, access, advisory services
- Members want to understand where/when/who/how to engage/take ideas forward
- Needs to be a commonly accessible and transparent method
- Create a toolkit with resources on how to engage with the City

Attendees

Alison Creba
Annalee Sawiak
Betsey Varghese (Alt. Rep for Lori Andres)
Caroline Brooks
Eadaoin Quinn
Emily Alfred
Frances Schagen
Hazel Sutton
Helen Melbourne
Helene St.Jacques
Ivan Wadgymer
Jay Thakkar
John Ashbee
Katie Motta
Keir Brownstone
Kiera Toffelmieri
Leah Barrett
Lindsay Macdonald
Melissa Mirowski
Michael Zabaneh
Rodney Yip
Sarah Lazarovic
Sarah Margolius
Sophi Robertson
Steven Bourne
Todd Kostal
Victoria Ho

City Staff

Carol Tsang, Coordinator, Public Consultation Unit
Kamara Jeffrey, Project Lead, Solid Waste Management Services
Kathy Raddon, Project Lead, Solid Waste Management Services
Khatija Sahib, Coordinator, Public Consultation Unit
Meaghan Davis, Manager, Circular Economy and Innovation Unit
Robyn Shyllit, Senior Coordinator, Public Consultation Unit
Sinead Murphy, Project Lead, Solid Waste Management Services
Sumantra Data-Ray, Project Lead, Solid Waste Management Services

Circular Economy Working Group

Meeting 3. Thursday November 14, 2019. St. Paul's Bloor Street

**Optional Zero Waste
Brown Bag Lunch**
12pm – 1pm

Meeting
1pm - 4:30pm



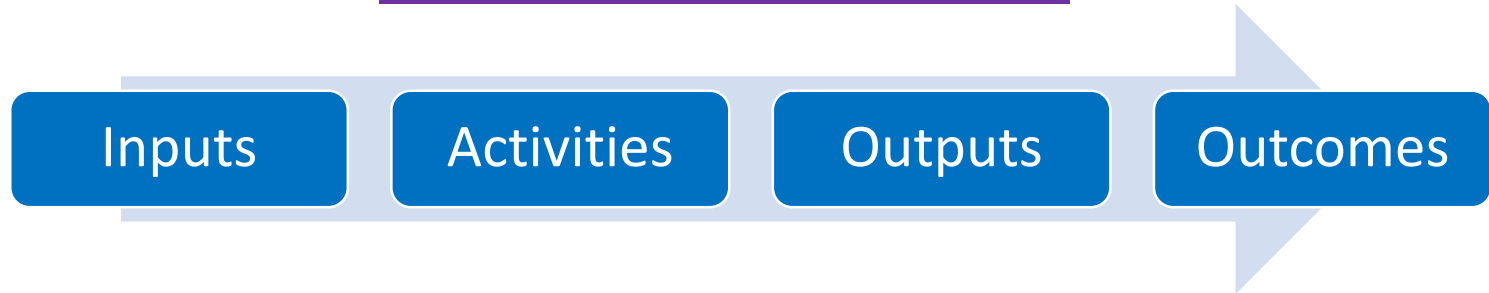
AGENDA

Time	Item
12:00	Brown Bag Lunch – informal networking
1:00	Welcome, Objectives, City Update (+ Q&A)
1:20	Introductions: Roundtable & GROW Goals partner check-ins
1:35	Terms of Reference update (+ Q&A)
1:45	Meeting 2 feedback summary: Sector initiatives + Subgroups (+ Q&A)
2:00	BREAK
2:15	Conversation: <i>What is a Resilient City?</i> (+ Q&A) Amy Buitenhuis, Resilience Lead, City Manager's Office Meaghan Davis, Manager Circular Economy & Innovation Unit
2:55	Working Session: Circular City & Resilient City Alignment <ul style="list-style-type: none"> - Overview (5 minutes) - Open Ideation (20 minutes) - Circularity Statement (25 minutes) - Report Back (10 minutes)
3:55	Wrap Up & Next Steps - Meeting Adjourns
4:05	OPTIONAL Discussion on subgroups
4:30	Subgroup discussion adjourns

Meeting 3 Objectives

1. Review CEWG activity to date & meeting 2 feedback
2. Terms of Reference Update: Alternates
3. Identify opportunities to incorporate a resilience lens into Circular Economy Roadmap scope of work
4. Convene interactive meeting and provide opportunity for informal networking and discussion

CEWG Objective



- 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.

CEWG Objective



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

CEWG Objective



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

CEWG Objective



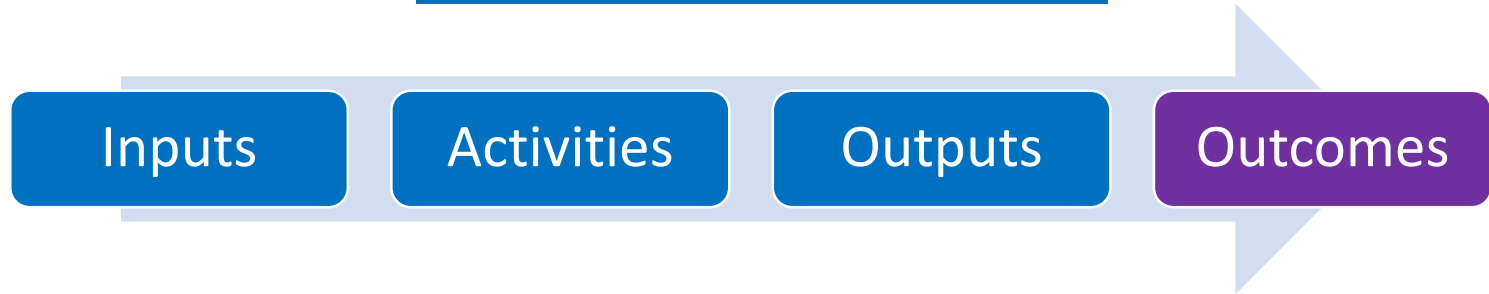
Generated by City staff

- 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

CEWG Objective



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

Year 1 Meeting Activities: Convene & Explore

Meeting 1 Setting the Foundation

- Convened group!
- CEWG objectives
- CE & LTWMS 101
- Case Study Review

Meeting 2 City Decision Making & Sector Engagement

- Meeting 1 reflection
- City Structure & Decision Making
- CE across City Divisions
- CE Sector Engagement Strategies

Meeting 3 CE & Resilience

- Meeting 2 reflection
- Terms of Reference Update
- Circular City & Resilient City Alignment

- ✓ Learn together and build CE capacity through knowledge sharing, learning, and peer support activities
- ✓ Explore how CE is evolving in member organizations and develop actions to take back to initiatives
- ✓ Gain understanding of tools needed by members to support CE initiatives
- ✓ Inform and engage members on relevant CE related SWMS programs

Year 2 Meeting Activities: Comment & Collaborate

Meeting 4

Idea Pitch & Solution Circles

- Opportunity for members to pitch their ideas and collaboratively develop solutions

Meeting 5, 6 & 7

- CE roadmap scope of work
- Baselining circularity
- Vendor engagement strategy for CE procurement pilots
- Other emergent research projects

Continue year 1 activities. Consult members and receive feedback on:

- ✓ Relevant CE related SWMS programs
- ✓ Waste Strategy implementation activities
- ✓ Where City support is required to convene stakeholders
- ✓ Draft CE roadmap, including relevant collaboration opportunities

Circular Economy & Innovation

Unit Updates

- EMF CE100 Acceleration Workshop
- CEI operational plan
- CE procurement staff report
- CE baselining study
- New Corporate Strategic Plan
- Mixed waste study
- Single-Use & Takeaway Items
- Case studies

How CEWG feedback is used

- ✓ Helps identify market readiness and low hanging fruit opportunities
- ✓ Development of CEI's research work plan for 2020 and beyond
- ✓ Sector engagement feedback informs vendor engagement strategy for CE procurement pilots
- ✓ Single-Use & Takeaway Items initiatives





New Corporate Strategic Plan

We are committed to fighting climate change and preparing our city government, our economy, our ecosystems, and our communities, especially the most vulnerable communities, for a changing climate.

Quality of Life Results – What Council and the public will experience*

- Toronto survives, adapts and thrives in the face of climate change
- Reduced local greenhouse gas emissions fight climate change, improve our health, grow our economy, and improve social equity
- The City protects and invests in its ecosystems, natural spaces, land, air and water
- Public and private assets, infrastructure, and buildings are responsibly managed in light of the risks posed by our changing climate, and are built and maintained to reduce greenhouse gas emissions
- Residents and businesses take action to tackle climate change and build resilience in their neighbourhoods
- A more circular economy diverts waste from landfill, reduces greenhouse gas emissions and is resilient to future challenges.

(*Achieving Quality of Life Results will require partnerships with other orders of government, the private sector, and non-profit organizations.)

Related strategies, plans and initiatives – How we are supporting the priority

- | | |
|--|--|
| • Biodiversity Strategy | • Pollinator Protection Strategy |
| • Circular Economy | • Ravine Strategy |
| • City Asset Management | • Resilience Strategy |
| • City Wide Real Estate Transformation | • Strategic Forest Management Plan |
| • Electric Vehicle Strategy | • Toronto Green Standard |
| • Green Roof Bylaw | • TransformTO: Climate action for a healthy, equitable, prosperous Toronto |
| • Long-Term Waste Management Strategy | • Wet Weather Flow Master Plan |
| • Parkland Strategy | |

* Additional strategies and initiatives will be developed to support the priority.

Mixed Waste Study



Single-Use and Takeaway Item Phase 2 Consultation Engagement Statistics*

E-mail list	~8,000 subscribers 65 e-mails/phone comments
Survey	~22,000 (~21,000 completed)
Public event and webcast	220 attendees 679 web views
Stakeholder meetings (2)	350 invites 64 attendees
Tele-town halls (2)	~11,100 attendees 74 screened, 21 live, 39 online, 27 voicemails
Other events (16)	~1,280 attendees 114 e-mail recipients, 750 posters

*As of November 7, 2019



Case Studies show the Circular Economy in Action in Toronto

Including:

Bare market

Bunz

Feed it Forward

Free Geek

Furniture Bank

Material Exchange

Repair Café

Secondhand Sunday

Spent Goods

Tiny Toy Co.

FEED IT FORWARD

Reducing Food Waste



Giving Food

Feed It Forward diverts it to its food banks and food banks and...

Feed It Forward that revalues food by:
 - stopping food from going to waste
 - making the financial impact

Pay-What-You-Can Grocery Store, Toronto



pay-what-you-can grocery store



pounds of food rescued per week



educational games and activities developed



TINY TOY CO.

Small Toy Rescue

Repurposing

Tiny Toy Co. collects waste from toys that are no longer wanted.

- extend toy life
- those who donate
- engage a community
- address



educational games and activities developed



shares of initial post on Facebook



Collaborators

Feed It Forward relies on local farmers, food producers, distributors and retailers for donations of unsold or blemished food; members of the public, community organizations and businesses for financial support; and over 900 volunteers for community to deliver its programs.



Collaborators

Tiny Toy Co. collaborates with schools and businesses in Toronto where the collection bins are placed, including environmental stores like EcoExis Clean Shop. It also has the support of volunteer toy debris sorters that sort by age, gender, and other language concepts.



MATERIAL EXCHANGE

Connecting Industries to help them share



Exchanging Resources for Reuse

Material Exchange facilitates the transfer of surplus materials between businesses and non-profit organizations to divert waste from landfill and support local communities. The program contributes to a circular economy by:

- facilitating local exchanges to keep materials in circulation longer
- preventing businesses from having to dispose of surplus material, which can reduce their waste management costs
- providing community groups with free materials that are of value to them.



non-profits within the Material Exchange network



exchanges of material facilitated



tonnes of materials diverted from landfill



dollars worth of materials exchanged



Collaborators

The Material Exchange program is offered through Partners In Project Green, which is a partnership between the Greater Toronto Airports Authority and the Toronto and Region Conservation Authority. The program is delivered through collaboration with external businesses, recyclers, community groups and non-profit organizations that can accept and reuse the excess materials generated within the Greater Toronto Area.



Call 311

Circular Economy & Innovation

Unit Updates

- EMF CE100 Acceleration Workshop
- CEI operational plan
- CE procurement staff report
- CE baselining study
- New Corporate Strategic Plan
- Mixed waste study
- Single-Use & Takeaway Items
- Case studies

How CEWG feedback is used

- ✓ Helps identify market readiness and low hanging fruit opportunities
- ✓ Development of CEI's research work plan for 2020 and beyond
- ✓ Sector engagement feedback informs vendor engagement strategy for CE procurement pilots
- ✓ Single-Use & Takeaway Items initiatives



GROW Goal Check-In

What was your GROW goal?

Goal – **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)

Terms of Reference Amendment

Section 3: Term & Attendance

The membership term of the Group is from 2019 – 2021, and will meet approximately four (4) times a year. Members may be expected to participate in smaller working groups and workshops as necessary, with variable time commitments up to 10 hours per month.

Each meeting is expected to last approximately three (3) hours, held during the day, at a central venue accessible by public transit.

Group members are expected to commit to making time to participate in all meetings.

RE: Terms of Reference Amendment

Section 4.0: Alternates

Effective, Meeting 1 2020.

All group members must establish an alternate to represent them when unable to attend a meeting.

Assigning an Alternate

- The alternate must complete an intake form by January 6, 2020.
- Alternates will be accepted at the City's discretion and the City will notify members once their alternate may act in their stead.
- Should the member not receive confirmation from the City that their alternate may act in their stead, another alternate may be proposed.
- Alternate members cannot designate participation to another alternate.

Communications

- Invitations and follow up materials will only be sent to the member.
- The member and alternate are expected to liaise pre/post meeting to share necessary information.

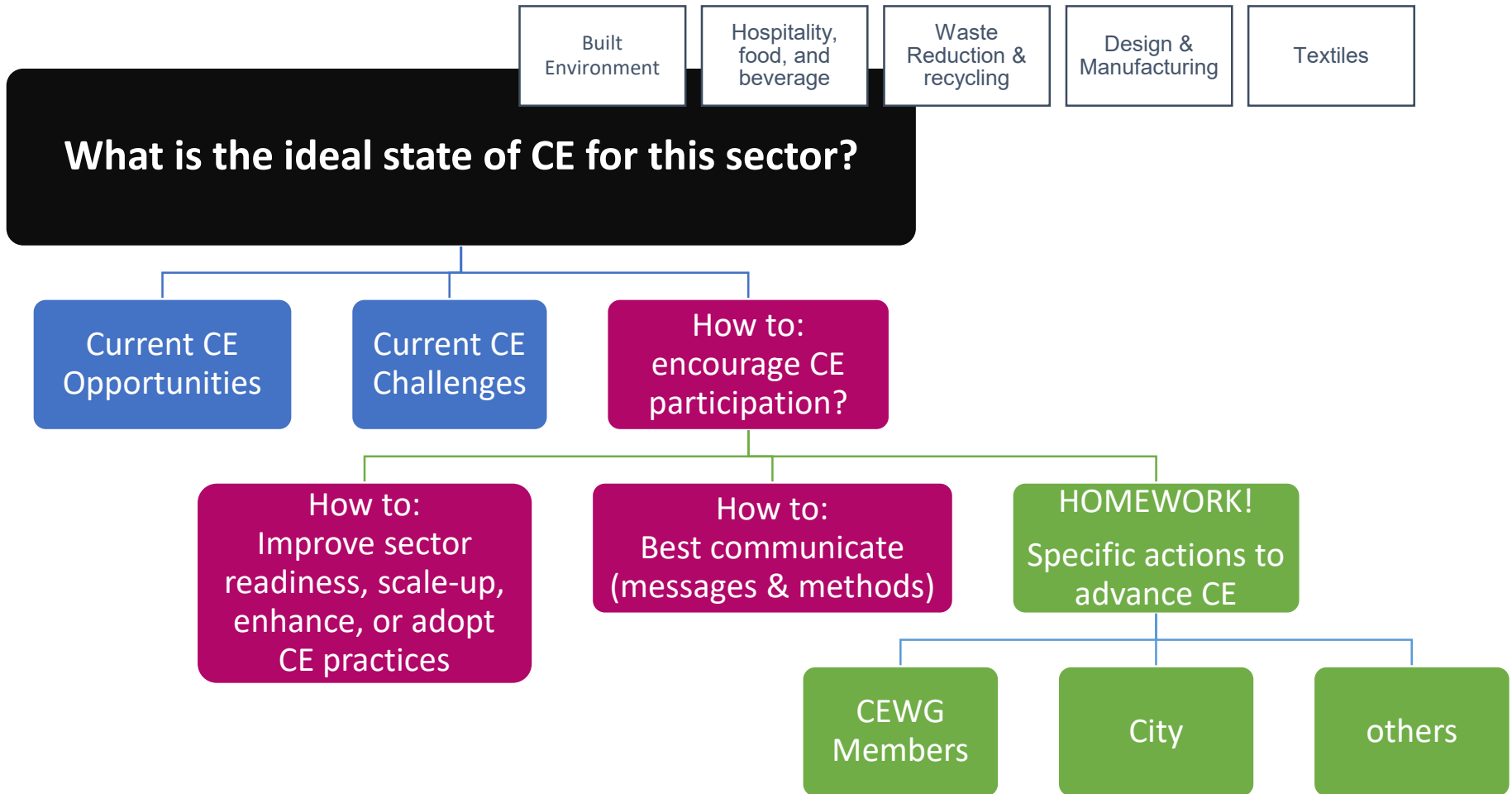
Missed meetings:

- If a member misses two (2) consecutive meetings without sending an alternate their membership will be evaluated and may be revoked.
- If an alternate attends more than 50% of yearly meetings, membership will be transferred from the member to the alternate.

Feedback from Meeting 2 – How Meetings Run

- ✓ Very informative on 'behind the scenes' process at City Hall
 - ✓ Good clarification of roles and objectives
 - ✓ Panel discussion helped describe how CEWG fits into bigger picture
 - ✓ Breakout groups helped start discussions by sector and facilitate networking
 - ✓ Collaboration and table work
-
- × Not enough networking, more facilitation required
 - × Never enough time for discussions
 - × Prefer cross-sector breakout groups
 - × More breaks needed
 - × Sharper focus on actions still missing

Feedback from Meeting 2 – Sector Engagement



What we heard re: City action ideas

Systems-based:

- Ban single-use plastics
- Create incentives for businesses that minimize use of disposables by offering reusables
- Create incentives for cross-sector collaborative partnerships that reduce waste
- City should lead by example and use purchasing power to help build circular businesses and options

Sector-based:

- Baseline data on material flows in the C&D sector & build awareness around what solutions could be
- Develop a cross-divisional task force to review existing policies regarding generation and mitigation of C&D waste, and develop opportunities for external research

SWMS activities/response:

- ✓ Consulting on the development of a Single-Use and Takeaway Item Reduction Strategy, which will include piloting partnerships with businesses
- ✓ Partnering with community organizations to build and use community compost
- ✓ Developing circular procurement policy
- ✓ Opportunity to discuss the inclusion of the C&D sector in baselining circularity study

What we heard re: CEWG action ideas

Systems-based:

- Develop value proposition/business case for different stakeholders.
- Develop best practice/lessons learned report and a list of recommendations that can be conducted by CEWG members.

Sector-based:

- Offer a 'pitch' forum to hear ideas, provide critique and feedback and facilitate business opportunities/connections.
- Support a ban on single-use plastics, form a committee that works outside of CEWG meeting dates to support cross-sector approaches to waste reduction and recycling initiatives.

SWMS activities/response:

- ✓ Examine the development of communications materials as appropriate in 2020
- ✓ Our next meeting will offer 'pitch forum' opportunity
- ✓ CEWG identified as a key stakeholder group and provided feedback on phase 2 consultation of the development of a Single-Use and Takeaway Item Reduction Strategy

What we heard re: Other action ideas

Systems-based:

- Federal government to enact Right to Repair legislation incentives for CE practices and Extended Producer Responsibility

Sector-based:

- Destigmatize reused clothing, with high profile influencers who practice textile reuse
- Establish common goals to increase uptake of recycled content by the industrial commercial and institutional sectors across the city
- Collect information from contractors, developers, demolition and salvage companies, recyclers etc. to understand how CE is/isn't integrated in sectors

SWMS activities/response:

- ✓ SWMS has convened a team to prepare for Extended Producer Responsibility legislation
- ✓ The City of Toronto is a member of the Ontario Textile Diversion Collaborative, a multi stakeholder group committed to minimizing the number of textiles going to landfill
- ✓ Initiated internal dialogue about C&D and foresee it being an important research area

What we heard re: Subgroups

19 expressed interest, 5 unsure/interested if action based

Sub-group discussion
4:00-4:30pm

Varied activity suggestions

- ? Focus on specific issues OR areas of work expertise
- ? Develop best practices standards/guidelines
- ? Develop database of resources for procurement and sharing of CE building materials
- ? Gather information for possible business opportunities to 'close the loop'
- ? Hold a business fair to facilitate connections (e.g., non-profits with industry)
- ? Identify locations for pilot projects
- ? Determine best ways to engage with industry and youth on CE
- ? Develop a presentation that CEWG members can share to raise awareness

Varied logistical suggestions

- ? Meet monthly OR in between CEWG meetings
- ? Rotating chair, notetaker, facilitator OR supported by City staff
- ? Dedicated City staff OR member-led
- ? Open to non-CEWG members? Field trips? Guest speakers?

BREAK

What is a Resilient City?

Amy Buitenhuis, Resilience Lead, City Manager's Office

&

Meaghan Davis, Manager Circular Economy & Innovation Unit

RESILIENCE IN TORONTO

MOBILITY

- TTC Corporate Plan
- TTC 5-Year Service Plan and 10-Year Outlook
- Surface Transit Priority Plan
- Toronto Walking Strategy
- Ten Year Cycling Network Plan
- Vision Zero Safety Plan
- RentSafeTO
- Home Energy Loan Plan
- Tenants First
- Housing Now Plan
- HousingTO 2020-2030 Action Plan
- Indigenous Affairs Strategic Plan
- Toronto Indigenous Health Strategy
- Tower Renewal
- Toronto Public Library Strategic Plan
- Toronto Food Strategy
- TOcore
- Raising the Village
- Toronto's Licensed Child Care Strategy
- Toronto Strong Neighbourhoods Strategy
- Community Food Resilience Action Plans
- Hazard Identification and Risk Assessment
- Social Inclusion in Toronto
- Talent Blueprint
- Governance Review
- New Civic Engagement Strategy
- Asset Management
- TransformTO
- Sustainable Energy Plan
- Financing Program
- Green Streets
- Basement Flooding Protection Program
- Wet Weather Flow Master Plan and Management Guidelines
- Heat Warning System
- Climate Change and Health Strategy
- Climate Change Vulnerability Assessment of the Food System in Toronto
- Climate Change Risk Assessment
- Circular Economy Roadmap
- Toronto Green Standard
- Green Roof Bylaw
- Ravine Strategy
- Biodiversity Strategy
- Parkland Strategy
- Strategic Forest Management Plan
- Electric Mobility Strategy
- Youth Equity Strategy
- Toronto Public Health Strategic Plan
- Poverty Reduction Strategy
- Equity Responsive Budgeting
- Disaggregated Data Strategy
- Toronto for all Campaign
- Seniors Strategy
- Toronto Newcomer Strategy
- Toronto Action Plan to Confront Anti-Black Racism

EQUITY

CLIMATE AND ENVIRONMENT

CIVIC ENGAGEMENT

HOUSING

COMMUNITIES AND NEIGHBOURHOODS

NEW IN 2019/2020

UPDATE IN 2019/2020

What is a resilient City?

ADDITIONAL CONTENT TO COME

Circular Economy and Resilience



ALIGNED LOCAL ACTION: Circular Economy

One of the ways Toronto is already taking a leadership role on resilience is through the City's commitment to work towards an aspirational goal of zero waste and a Circular Economy. A Circular Economy aims to reduce waste and maximize resources by moving away from the linear take-make-and-dispose approach to an innovative system that focuses on product longevity, renewability, and reuse and repair.

The City has created a team to support this commitment and one of the first steps has been looking at how the City can use its purchasing power to develop Toronto's circular economy.

A city with a circular economy is a resilient city; the sustainable use of resources at their fullest value can drive the local economy, increase social prosperity and have better environmental outcomes. With a stronger focus on product longevity, renewability, reuse, and repair, a circular economy can decrease risk associated with reliance on primary raw material extraction costs and impacts to the environment.

Circular Economy principles can also be integrated into many of the Resilience Strategy actions, including the promotion of sustainable and resilient food systems (Action B1.6) and integration of climate resilience into the City's asset management framework and plans (Action B2.3). Learn more at <https://www.toronto.ca/services-payments/recycling-organics-garbage/long-term-waste-strategy/working-toward-a-circular-economy/>



Opportunities identified include:

- Driving a local economy
- Increasing social prosperity
- Improved environmental outcomes
- Decreased risk

1 - Circular Economy and Resilience

A SHARED, COMMUNITY VISION FOR A MORE RESILIENT TORONTO.

A place where residents feel empowered to help shape their communities and where government works in deep collaboration with the people it represents to advance an agenda of fairness and prosperity for everyone.

A place where we each feel connected to the natural world, and where we think about the now as well as far into the future.

Connected to long-term climate and sustainability practices that are embedded in how we do things, and allow us to adapt to an uncertain, changing climate.

Home. A place where housing is a right, and every resident has a safe, decent, and affordable place to live.

Where residents of Toronto will know the history of Indigenous people on these lands, past and present, and are committed to knowing about, understanding, and acting on Truth and Reconciliation, for themselves and the City as a whole.

A place that creates space for diversity and recognizes every resident's right to the city.

Easy to move around in, whether by foot, on a bicycle, in a car, or by transit, with multiple options that are efficient, safe, and affordable for every resident.

A city of connected communities, where residents feel heard, share common goals, and have broad empathy and understanding for one another.

A place that is led by brave and caring people who reflect the diversity of the communities they represent.

A place where every resident can

THRIVE.

“Fairness and prosperity for everyone”
– suggests a more inclusive, local economy

“Long-term climate and sustainability practices that are embedded in how we do things” – suggests need for behaviour change to achieve environmental outcomes

“A city of connected communities” – suggests a culture of sharing and local participation

2 - Circular Economy and Resilience



Equity

WHAT WE WANT TO CHANGE

Unequal access to resources, funding and opportunities, polarized ideologies, and lack of awareness of vulnerability.

WHERE WE WANT TO BE

People have access to the things they need to thrive. Communities have greater ownership over decision-making that affects them, including the way resources are distributed. There is broad empathy and understanding. Deliberate efforts are being made towards reconciliation.



Climate and Environment

WHAT WE WANT TO CHANGE

A short-term view of natural resources, consumption habits, inconsistent sustainability efforts, and no clear plan to adapt to a changing climate. Climate change leaves the most vulnerable members of our society at the greatest risk of harm.

WHERE WE WANT TO BE

A connection to the environment, an understanding of our effects on the natural world, including our contributions to climate change. Coordinated, large scale climate mitigation and adaptation efforts. We work with the Indigenous community in Toronto to incorporate Indigenous worldviews into our approach to environment. We prioritize protection of the most vulnerable residents.



Communities and Neighbourhoods

WHAT WE WANT TO CHANGE

A community that is not fully resourced or equitably integrated into the city. Certain communities and residents lack the supports necessary to thrive.

WHERE WE WANT TO BE

Connected communities where people feel a sense of trust and belonging. Residents have a fair stake in shaping the future of their neighbourhoods and the city at large. Silos are broken down and organizations and government work alongside residents to address the diverse needs of neighbourhoods.

3 - Circular Economy and Resilience

ACTION C4.5

Support local partners in academia, industry, and community to take leadership on resilience

THE CHALLENGE

Building resilience requires galvanizing the ideas, resources, and energy of many.

International evidence on collective impact suggests that when addressing complex issues, like the resilience challenges identified in this report, organizations across sectors must develop a common agenda, agree on shared measurements, work on mutually reinforcing activities, and continuously communicate with each other.



Questions

Amy Buitenhuis, Resilience Lead, City Manager's Office
&

Meaghan Davis, Manager Circular Economy & Innovation Unit

Resilience Strategy Focus Areas

People & Neighbourhoods

- Toronto has resilient, safe, affordable homes
- Communities take action to improve resilience in their neighbourhoods
- Poverty is eliminated and equity is improved

Infrastructure

- Toronto is more resilient to climate change, including the hazards of flooding and heat
- Infrastructure and buildings are resilient to a changing climate and reduce greenhouse gas emissions
- Toronto has multiple reliable, affordable, and safe mobility options that reduce the amount of time it takes to get around

Leading a Resilient City

- Civic engagement and trust in the City improve, and leadership better reflects Toronto's diversity
- The City prioritizes the most vulnerable people and highest risk in decision-making
- Indigenous communities have a leadership role in building resilience
- Institutionalize resilience into the City's decision-making and take leadership on resilience

Working Session: Circular City & Resilient City Alignment

Objective

Create circularity statements for each resilience focus area

Outcome

Identify opportunities to incorporate a resilience lens into the circular economy roadmap scope of work

People &
Neighbourhoods

Infrastructure

Leading a
Resilient City
(Leadership)

Activity Overview

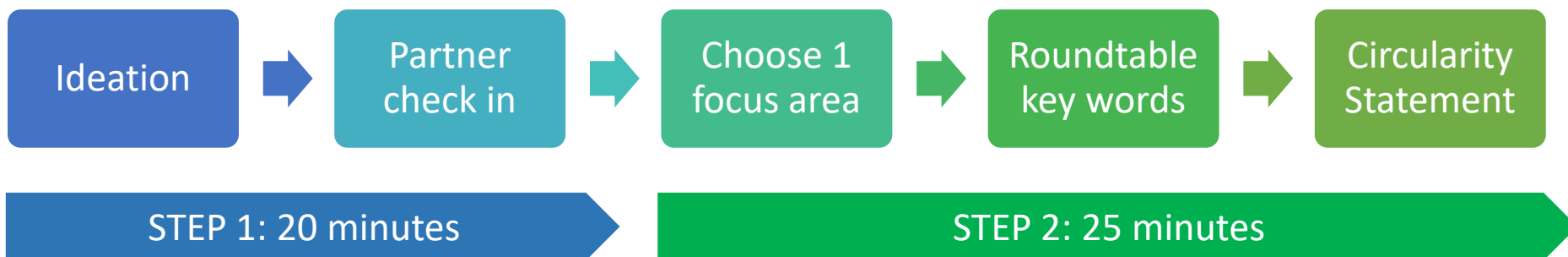
Step 1 – Ideation

1. **How could you describe circular *infrastructure / people & neighbourhoods / leadership*?** What does it look like or do? Who/what is involved? Where is it? How does it function?
2. **How could circular *infrastructure / people & neighbourhoods / leadership* impact resilience in Toronto?** What are the opportunities? What are the challenges?

Step 2 – Circularity Statement

What statement describes the relationship between circular *infrastructure / people & neighbourhoods / leadership* and resiliency?

What are the key word/themes? How can they fit together? What does the statement say?



NO WORDSMITHING!

Step 1 - Ideation – 20 MINUTES

People &
Neighbourhoods

Infrastructure

Leading a
Resilient City
(Leadership)

Step 1 – Ideation

1. *How could you describe circular **infrastructure / people & neighbourhoods / leadership**? What does it look like or do? Who/what is involved? Where is it? How does it function?*
2. *How could circular **infrastructure / people & neighbourhoods / leadership** impact resilience in Toronto? What are the opportunities? What are the challenges?*

Fill in worksheet:
1 – 3 focus areas



Partner check in:
What did you come up
with? Where were the
roadblocks? Highlight key
words.

10 minutes

10 minutes

Step 2 – Circularity Statement - 25 minutes

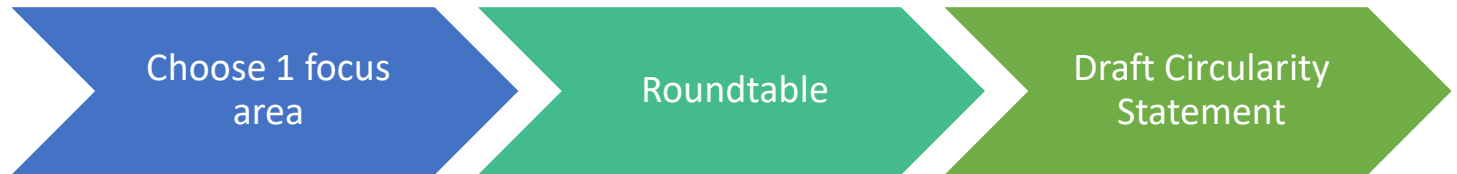
People &
Neighbourhoods

Infrastructure

Leading a
Resilient City
(Leadership)

Step 2 – Circularity Statement

What statement describes the relationship between circular *infrastructure / people & neighbourhoods / leadership* and resiliency?



- What are the key words and ideas?

- How can the key words/ideas fit together?
- What does the statement say?
- Does this statement capture what we want it to?
- Is anything missing?
- What does the statement say now?

***Circularity Statement:
1 sentence. NO WORDSMITHING!***

Report Back: Circularity Statement

People &
Neighbourhoods

Infrastructure

Leading a
Resilient City
(Leadership)

Meeting 1 – March 9, 2020

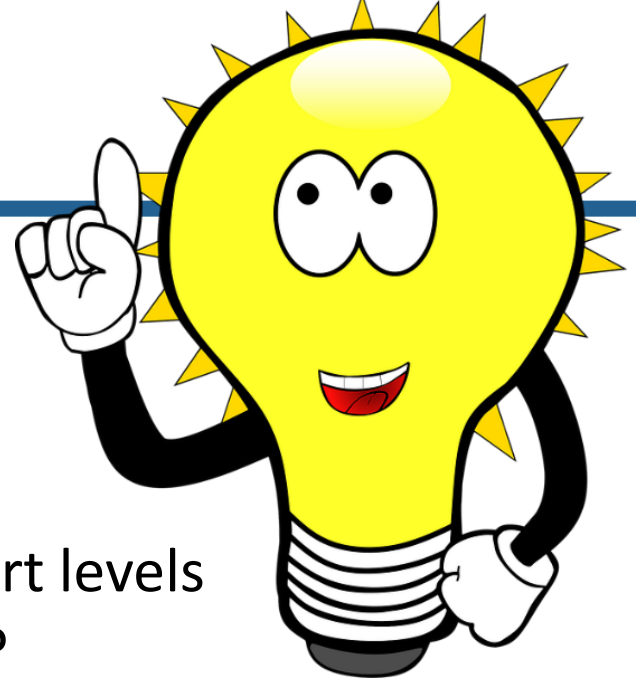
Idea Pitch & Solution Circles

The Format:

- Depends on member interest and comfort levels
- TEDtalk and breakout group discussions?
- Troika?
- A questions group and an ideas group?

The Ask:

- ✓ Prepare presentation – 5 minutes, no slides required, individual or partnered
- ✓ Participate in solution circle dialogue – 10 minutes



Meeting 3 follow up questionnaire

1. Idea-pitch sign up

- Name(s)
- Description of idea/question/challenge
- Commitment to participate on meeting date

2. **Assign alternate:** complete intake form by January 6, 2020.

3. Agree to **Terms of Reference update**

4. Additional Circularity Statement notes

Announcements

Thank you! Year 1 complete!

2020 Meeting dates:

- March 9
- June 23
- Sept 16
- December 10

OPTIONAL – subgroup discussion

4:05 – 4:30



What we heard re: Subgroups?

Suggestions Include:

Actions	<ul style="list-style-type: none"> • Sub-groups could focus on specific issues (e.g., planned obsolescence, waste, energy) <u>or</u> areas of work expertise (e.g, communication, finance, operations, economic development) • Develop best practices, standards/guidelines, database of resources and services who can be helpful in CE procurement and dissemination of circular building materials. Collect baseline data.
Outcomes	<ul style="list-style-type: none"> • Recommendations for the City of Toronto, industry groups and other level of governments. • Collaborative efforts on non-City led joint initiatives. • Jurisdictional scan for innovation, strategies, pilots, collaboration. Case studies. • A successful grant application.
Structure	<p><u>Logistics:</u></p> <ul style="list-style-type: none"> • Monthly meetings; Central location with no rental fees; Do 1-2 meetings then re-evaluate/learn and improve; Rotating chair and note taker using google docs; Non-CEWG participants. <p><u>Activities:</u></p> <ul style="list-style-type: none"> • Develop vision and specific actions with completion dates; Invite guest speakers; Pitch problems and collectively develop/discuss solutions; Field trips to see what is being done by others; Developing solutions/path ways to achieve short term goals the City is trying to reach.
Roles	<p><u>CEWG member roles:</u></p> <ul style="list-style-type: none"> • Making up the majority of the sub-group. • Lead the group. <p><u>City roles:</u></p> <ul style="list-style-type: none"> • Supporting meeting logistics, facilitating and note taking. • Organize guest speakers. • Be a liaison with other City Divisions.