

Circular Economy Workshop Public Consultation Report

August 2018

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1. Executive Summary & Acknowledgements

On June 14, 2018, the City of Toronto Solid Waste Management Services Division hosted its first Circular Economy Workshop to launch a conversation between the City and existing supporters of a circular economy in Toronto. The workshop included participation from 42 stakeholders supporting a circular economy in Toronto. The workshop objectives were to:

- Provide an overview of the Circular Economy and new Long Term Waste Management Strategy initiatives including making Toronto Ontario's first circular City
- Convene and connect supporters of circular economy initiatives, businesses, organizations, and stakeholders to share information on current efforts and opportunities
- Begin mapping circular economy initiatives in Toronto
- Develop a draft list of activities for consideration by the future Circular Economy Advisory Group
- Host an interactive, fast paced, creative and engaging event
- Report back on outcomes to stakeholders

The workshop agenda included: an overview of the circular economy and its potential for cities; identification of circular strategies in Toronto's existing circular economy; discussion of resources and tools needed for organizations to become more circular; and identification of activities that could be pursued through the City's Circular Economy Advisory group.

Workshop participants identified the following potential activities for the City of Toronto's Circular Economy Advisory Group:

1. Developing local strategies and tools to close service and material loops
2. Identifying appropriate policy levers at all orders of government
3. Offering education and promotion programs to enhance public awareness
4. Developing circular economy-related incentives to drive behavior change for consumers and businesses
5. Identifying research priorities, conducting research, fostering information sharing, and establishing baseline data
6. Supporting further development of collaborative spaces and programs



The City of Toronto would like to thank all stakeholders for their contributions to Toronto's June 2018 Circular Economy Workshop through their written submissions and/or workshop participation.

2. Workshop Overview

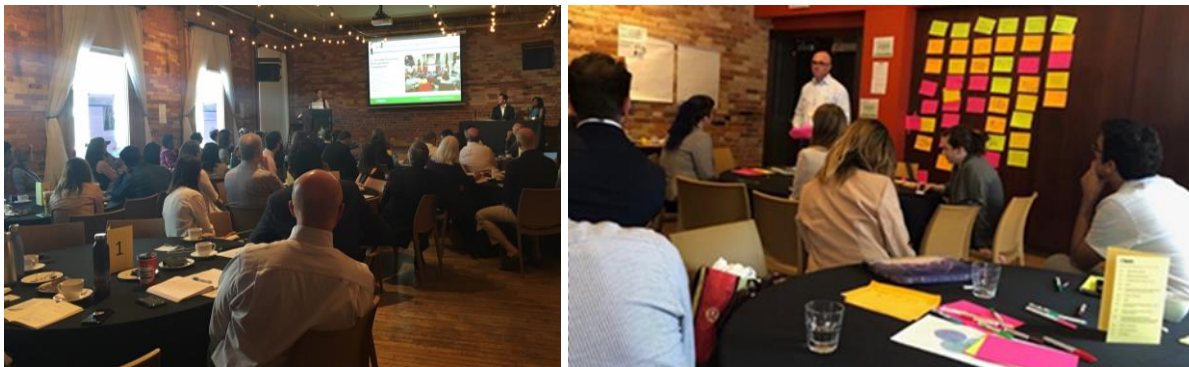
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- Begin mapping circular economy initiatives in Toronto
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Invitations to participate in the workshop were sent to stakeholders from a range of sectors including: environment, infrastructure, waste management, construction, food and beverage, healthcare and employment, fashion and textiles, Business Improvement Areas and tourism, and manufacturing and packaging. Stakeholders were asked to complete a short application to express their interest in participation, and share the invitation with their networks and/or members who may be interested in participating.

Facilitated by Robyn Shyllit, Senior Public Consultation Coordinator, City of Toronto, the workshop took place at the Gladstone Hotel in downtown Toronto, and included presentations from guest speakers and City of Toronto staff, interactive discussions, and group exercises. A total of 42 stakeholders participated in the workshop.



This report summarizes presentations, discussion topics and feedback received during the workshop.

2.1 Workshop Introduction: The Potential of Cities in the Circular Economy

After Facilitator Robyn Shyllit welcomed workshop participants introduced Julia Vol, Government and Cities Network Manager from the Ellen MacArthur Foundation (EMF), who kicked off the morning by providing an overview of circular economy (CE) principles and illustrating the ways in which the CE provides an opportunity to disrupt the existing, wasteful, linear economy. Vol's presentation provided the audience with current examples of how the EMF partners with local governments to support circular economy roadmap development in cities like London, Austin, Phoenix, Paris, Vancouver, and Amsterdam.

Following Julia Vol's introductory remarks, Annette Synowiec, Manager of Business Operations and Change Initiatives and Urban Fellow Research Associate Kamara Jeffrey provided a summary of City of Toronto Solid Waste Management Service's work to implement key recommendations of the Long Term Waste Management Strategy, including Solid Waste's new Unit for Research, Innovation, and a Circular Economy's (UFRICE) mandate to make Toronto the first circular city in the province. In addition to examples of existing circularity in City of Toronto program and service delivery, the presentation summarized current international research on the economic potential of CE and examples of key "circular strategies" adopted by businesses.

Next, Rob McMonagle, Senior Advisor, Green Economy Sector Development, Economic Development and Culture, offered an overview of Toronto's key economic sectors and City of Toronto initiatives supporting local green business development. The presentation included a case study of the specific business development initiatives supporting a circular economy in Toronto's urban wood cluster, including the employment and export potential of salvaging wood from felled urban trees.

3. Workshop Feedback Summary

3.1 Circular Economy Resource Discussion

Following opening remarks and introductory presentations, participants at each table introduced their circular economy programs and initiatives, summarized how their current strategies might fit into the circular supply chain, and described surplus offerings and other unused resources at their organizations. Participants then took part in facilitated table discussions to respond to the following question:

What would help you to become more circular?



What would help you to become more circular?

"Ways to better utilize our space and our own micro - community."

"Somewhere to give excess produce to convert to energy and resources."

"More partnerships to access public land (City of Toronto) for storage of fruit picking equipment, access to harvest/rescue from urban fruit trees, and funding."

converting excess food into other resources, financial incentives for businesses to reduce food waste and change behaviour, collaborations with local food businesses (for example, brewery-bakery partnerships to transform spent grains into bread), support for piloting of concepts, increased community awareness on ways to reduce food waste, and funding or grants for small and medium enterprises.

Furniture and Equipment

Responses from participants in Furniture and Equipment noted that what was needed to increase circularity was the availability of "big" physical bricks & mortar spaces for recycling, partnerships with Corporate Real Estate and Property Managers, increased public awareness about furniture recycling, and more and better data capture on the issue of office waste in Canada.

A City staff member sat at each table and took notes on the discussion. Feedback was also recorded in 'passports' that were filled out by each individual in attendance. A summary of all comments received in response to the question are described below by sector.

Small and Medium Enterprises/Organizations (General)

Responses from participants in this category (including advocates, consultants, and researchers), focused on partnerships to foster information sharing and collaboration, funding, incentives such as CE Awards, assistance with developing CE business models and strategy for transitioning to CE, and support in communicating the effects, savings, and potential impacts of CE to member organizations and the general public.

Construction and Industry

Participants in Construction and Industry noted that what is needed to become more circular was a closed loop system for construction waste (including resources, technology, and materials for creating energy from waste), creation of partnerships (such as with buildings) to resolve shared challenges, research to gauge the appetite for changes in procurement strategies and extended producer responsibility, increased transparency in waste service provider diversion rate calculations, and case studies demonstrating the economic benefits associated with diversion and circular design.

Food and Beverage

Workshop participants in the Food and Beverage sector noted that opportunities to increase their circularity include more food-waste specific collection services, physical space, and/or technology to assist with

Repair and Reuse

Workshop participants in the Repair and Reuse sector identified several opportunities to increase their circularity, including more partnerships with businesses, community organizations, and the City of Toronto. It was noted that these partnerships could assist organizations with sharing volunteer bases, expertise, and managing the supply and demand of valuable resources (such as electronics at the end of their useful lives). Additional opportunities identified include public awareness of emerging CE strategies (such as computer re-use and product extension using Free and Open Source Software), better logistics to get materials to those in need of services, accessible community space (e.g. clothing recycling plant) and/or places to work with other community programs, and funding to respond to increases in program demand.

Fashion and Textiles

Workshop participants in the Fashion and Textiles sector noted that to increase circularity the need to increase public awareness and about the negative impact of fast fashion and the benefits of supporting goods made in Canada, access to affordable space (e.g. for a textile recycling facility), equipment repair, access to a vehicle for transporting materials, and increased funding and grants (e.g. for technology, employment, and materials and equipment such as deadstock).

Waste Management and Processing

Participants in the Waste Management and Processing sector identified a number of ways to increase their circularity including regional networking to consolidate materials and lower transportation costs, public awareness (e.g. related to waste reduction and the economics of end of use processing), support from the City (to provide information to the public about recycling programs), and partnerships (e.g. with businesses, schools, non-profits, and cities).

What would help you to become more circular?

"Private/government support to create a textile recycling facility locally as a social purpose enterprise offering jobs and job training to marginalized job seekers."

"Inter-organization retreats to foster information sharing and collaboration."

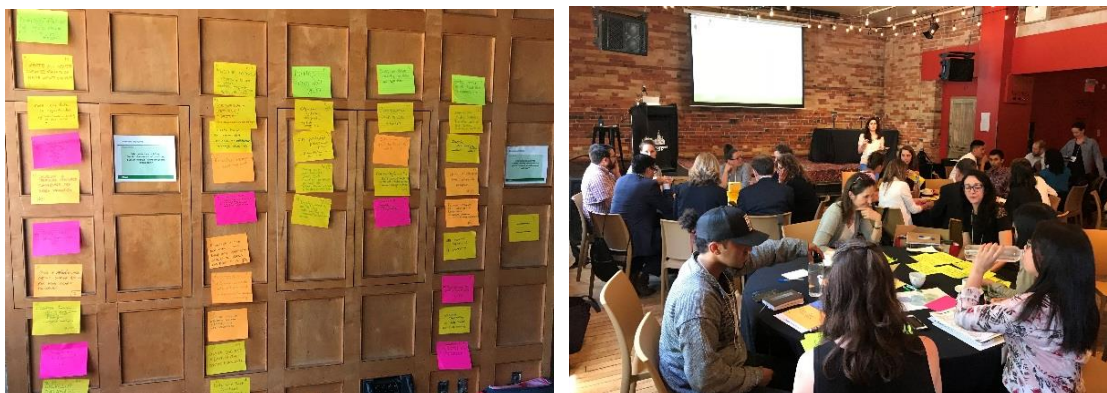
"Regional networking - to consolidate materials and lower transportation costs."

"Access to a vehicle to pick up materials."

3.2 Consensus Workshop - Circular Economy Working Group

In the afternoon, facilitator Robyn Shyllit introduced the Consensus Workshop, a facilitation method used to engage diverse perspectives in group conversations. It uses four key steps to incorporate the ideas of the full group through individual brainstorming, clustering of ideas, identifying the focus areas of ideas, and reflecting on information. Participants broke into 3 groups to participate in a consensus workshop to brainstorm responses to the focus question:

What activities could the Circular Economy Advisory Group pursue through its roadmap and work plan?



All ideas were recoded and reviewed, and similar ideas were consolidated to reduce overlap. A comprehensive summary of all feedback received from the 3 break-out groups describing actions and activities that the Circular Economy Advisory Group could pursue through its roadmap and work plan is described below.

Actions	Activities
<i>1. Develop local strategies and tools to close service and material loops</i>	<ul style="list-style-type: none">a. Make home recycling easierb. Assist manufacturing in redesigning packaging to ensure recyclabilityc. Increase waste diversion in the ICI sectord. Create domestic capacity to process recycling and reduce exports oversease. Improve textile diversion, and create a City-wide textile recycling programf. Create a training session to support business transition to CE and green innovationg. Develop a city-wide sharing planh. Redirect e-waste from recyclers to refurbishersi. Pilot a delivery food program with reusable containersj. Share success storiesk. Establish neighbourhood collection depots (i.e. textile drop off, local food pick up)l. Create sector specific how-to guides
<i>2. Identify appropriate policy levers at all orders of government</i>	<ul style="list-style-type: none">a. Write legislation to increase post-consumer recycled content

	<ul style="list-style-type: none"> b. Promote policy to higher levels of government that focuses on equal standards for all municipalities for recycling and organics waste c. Make extended producer responsibility mandatory and far-reaching d. Require new condo developments to include community space and local business retail space e. Develop city-level regulations where possible f. Expand CE City procurement policy g. Develop policy to support small scale composting and resource recovery, and reduce regulations that make this prohibitive h. Address policies and regulations that prohibit CE material flow (i.e. health codes and single use products) i. Regulate food waste, ban food waste from landfill j. Ban single use plastics k. Eliminate need to complete RFP when charities can provide service to City
3. Offer education and promotion campaigns to improve public awareness	<ul style="list-style-type: none"> a. Bring back home-economics curriculum to build capacity in young people b. Support TDSB eco-schools program c. Educate restaurants on how to limit use of single use products d. Increase understanding and visibility of waste management infrastructure e. Highlight the direct advantages of participation in the CE f. Create website with CE information to raise public awareness g. Use City social media channels to promote CE non-profits and businesses h. Host education and skill-building events i. Consult with all stakeholders to determine priorities for public awareness and education j. Offer tours of transfer stations and dump sites k. Promote a business-to-business platform that encourages corporate leaders to heavily contribute to CE l. Support learning opportunities for repair rules and best practices m. Create a free pop-up space to showcase innovative NGOs and businesses n. Hold an annual CE conference with presentations and workshops by sectors, and an exhibition hall open to the public
4. Develop CE-related incentives to drive behavioural change for consumers and businesses	<ul style="list-style-type: none"> a. Make reuse and sharing easier for Torontonians, user friendly, not financially prohibitive b. Create reuse incentive programs for single use items like coffee cups and take out containers

	<ul style="list-style-type: none"> c. Support and invest in small businesses, organizations and start-ups that have good CE practices and develop solutions to reduce waste d. Incentivize design for end-of-life e. Incentive for small to medium sized businesses to eliminate plastic use f. Incentives for hybrid cars g. Make landfill economically unviable h. Create awards to showcase local CE stories
5. Identify research priorities, conduct research, foster information sharing, and establish baseline data	<ul style="list-style-type: none"> a. Catalogue all the service providers that are part of the CE, to help connect likeminded organization to increase impact and reduce overlap through a directory including: services, materials required and surplus, groups, businesses, how they are doing it, impact analysis b. Research textile waste recycling alternatives c. Research best practices and lessons learned Canada-wide and internationally on plastic ban policy d. Identify key metrics for evaluating progress e. Identify experts in all relevant sectors f. Conduct and impact analysis of CE initiatives, and assess potential local value of CE g. Include social impact data in new programs and policies h. Develop open-source CE procurement template and best-practices i. Undertake gap analysis of policies and laws that hinder or prohibit CE activity j. Develop resources and tools that support switch to CE by working with organizations already doing the work (do not reinvent the wheel) k. Create database of in-kind resources l. Create an online ecosystem of needs vs. wants m. Create a repository of case studies n. Identify challenges faces by businesses related to CE o. Quantify report and map materials currently being sent to landfill form the ICI sector p. Identify financial options that support diversion q. Create an industry and business matrix of waste inputs and outputs r. Develop sector clusters, (i.e. wood, food, fabrics, construction waste etc.) s. Identify transformative/disruptive products and support t. Pilot programs u. Increase transparency for hauler end-of-life processes
6. Support further development of collaborative spaces and programs	<ul style="list-style-type: none"> a. Develop spaces for trade and repair b. Create a shared facility for businesses to facilitate CE programs c. Help connect reuse/exchange programs with charities d. Organize public-private sector speed dating

	<ul style="list-style-type: none"> e. Improve transportation services (bike/car share) access in suburbs f. Create a platform in-person, and/or online, for local groups to discuss ideas and issues on a regular basis g. Create feedback opportunities for new initiatives h. Identify groups to participate and partner
7. Advisory group planning	<ul style="list-style-type: none"> a. Include environmental groups b. Host an artist-run reuse session with the advisory group when it is first established

4. Summary

Workshop discussions highlighted several common threads to increase circularity at the organizational level and participants identified the following potential activities for the Circular Economy Advisory Group to pursue:

- Develop local strategies and tools to close service and material loops
- Identify appropriate policy levers at all orders of government
- Offer education and promotion programs to enhance public awareness
- Develop circular economy-related incentives to drive behavior change for consumers and businesses
- Identify research priorities, conduct research, foster information sharing, and establish baseline data
- Support the further development of collaborative spaces and programs
- Advisory group planning

The workshop demonstrated enthusiasm and support from CE stakeholders to convene, share information and ideas, and grow initiatives in Toronto. Participants across sectors identified many resources that could support growth, including ways to improve space, funding, data, partnerships, and public awareness.

5. Next Steps

Solid Waste Management Services and Public Consultation Staff will inform participants of the application process and Terms of Reference for the Circular Economy Advisory Group, which is expected to launch in Fall 2018. Participant feedback from the City of Toronto June 2018 Circular Economy Workshop will be used to inform the Advisory Group Intake process.



Circular Economy Workshop | June 14, 2018 | Gladstone Hotel, 1214 Queen Street West

AGENDA

8:45	Registration and Breakfast
9:15	Welcome and Opening Remarks <ul style="list-style-type: none">➤ Robyn Shyllit, Senior Public Consultation Coordinator, City of Toronto➤ Julia Vol, Government and Cities Network Manager, Ellen MacArthur Foundation
9:40	Presentation Circular Economy 101 + Q&A <ul style="list-style-type: none">➤ Annette Synowiec, Manager Business Operations and Change Initiatives, City of Toronto➤ Kamara Jeffrey, Toronto Urban Fellow Research Associate, City of Toronto
10:40	BREAK
11:00	Roundtable Discussions: <i>Circular Economy Strategies – What could help you become more circular?</i>
11:35	Full Room - Report Back
12:00	LUNCH
1:00	Presentation: <i>Circular Economy Case Study</i> <ul style="list-style-type: none">➤ Rob McMonagle, Green Sector Development, City of Toronto
1:30	Consensus Workshop: overview presentation + full group brainstorm
1:45	Consensus Workshop Breakout Discussions: <i>What activities could the City's Circular Economy Advisory Group pursue through its work plan (and road map)?</i>
2:45	Full Room - Report back
3:15	Wrap up and Next Steps
3:30	Event Adjourns



Circular Economy Workshop | June 14, 2018 | Gladstone Hotel, 1214 Queen Street West

WORKSHOP INVITATION

The City of Toronto invites you to attend its first Circular Economy Workshop on June 14, 2018 (full-day event), in downtown Toronto. The goal of a circular economy approach is to design products, services and supply chains in ways that support economic growth, build social prosperity, minimize environmental impacts, and maximize the use and value of materials.

This Workshop brings together stakeholders to learn more about Toronto's goal of becoming a Circular City. It will engage participants to share their existing efforts and ideas of how we can move towards a circular economy in Toronto through interactive activities and discussion. Feedback received will be used to help inform and identify priorities for a City-led Circular Economy Advisory Group which will be formed later in 2018.

This event is open to Toronto-based organizations and businesses that are interested in learning more about how they can make their initiatives more circular, including:

- Small and medium enterprises, business improvement areas, and associations
- Representatives from the resource management, energy sector, food and agriculture, construction, textiles/fashion, electronics, renewable energies, etc.
- Non-profit organizations and community groups

Participants will have the opportunity for their circular initiatives to help establish a baseline circular economy business/industry listing for Toronto.

Interested businesses and organizations are invited to complete an application to attend by June 7, 2018. Capacity is Limited, and a maximum of 1 guest can attend from each organization. All applicants will be contacted to confirm participation. An agenda will be sent to registered participants in advance.

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Robyn Shyllit
Senior Public Consultation Coordinator
Robyn.Shyllit@toronto.ca
416-392-3358

Public Consultation Unit
City of Toronto
Metro Hall, 55 John Street.
Toronto, ON. M5V 3C6

Circular Economy Charrette Application

Circular Economy Workshop Application

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Interested businesses and organizations are invited to complete an application to attend by June 7, 2018. Capacity is Limited, and a maximum of 1 guest can attend from each organization. All applicants will be contacted by Friday June 8, 2018 to confirm participation. An agenda will be sent to registered participants in advance.

Stakeholders can also contribute to mapping Toronto's Circular Economy by continuing this form. All stakeholders will be contacted via email follow up to share information on the results of the mapping and upcoming initiatives.

The information on this form is collected under the City of Toronto Act, 2006, s. 136(c) and the Municipal Freedom of Information and Protection of Privacy Act. With the exception of personal information, all comments will become part of the public record. Questions about this collection can be directed to the Manager, Public Consultation Unit, Tracy Manolakakis 416-392-2990

Page 1 - Participation

* 1. How would you like to participate?

☐ I WANT TO ATTEND THE WORKSHOP

Interested businesses and organizations are invited to complete an application to attend the Workshop by June 7, 2018. Capacity is Limited, and a maximum of 1 guest can attend from each organization. All applicants will be contacted by June 8, 2018 to confirm participation. An agenda will be sent to registered participants in advance.

☐ I CAN'T ATTEND, BUT I WANT TO ADD INFORMATION TO TORONTO'S CIRCULAR ECONOMY LISTING

Page 2 - Contact Information

* 2. Contact Information

Name of organization/group/business

Contact First name

Contact Last name

Contact email

Organization Website

Organization Address

City

Postal Code

Contact phone number

* 3. How much do you know about the circular economy?

1
Nothing

3
A bit

4
I'm an expert



Page 4 - About you

* 4. Do you represent a non-profit organization or charity?

☐ Yes

☐ No

* 5. Which sector most closely describes your business / group / organization?

☐ Advocacy and City-Building (including infrastructure, waste management, and environment)

☐ Fashion and Textiles

☐ Manufacturing and Packaging (including plastics and chemicals)

☐ Employment and Human Services (including social, professional, or financial services)

☐ Other, please specify

☐ Consumer Products (including electronics and furniture)

☐ Food and Beverage

☐ Healthcare

☐ Events, Entertainment, and Tourism

* 6. The circular economy is defined by the Ellen MacArthur Foundation as a system that is restorative and regenerative by design. Relying on system-wide innovation, it aims to redefine products and services to design waste out, while minimising negative impacts. Categories used to help understand where groups fit in to the Circular Economy are described below (adapted from the IDEO Circular Design Guide, Circular Economy Club, and the ReSOLVE Framework for a Circular Economy).

Which category most closely reflects your organization's place in the circular economy? (choose 1)

☐ **Design:** Design for disassembly/repair/regeneration, modular design, design for recyclability, and redesign of supply chains. (Example: Shoes with exchangeable heels for multiple styles and easy repair)

☐ **Product as a Service:** business models, offering of alternatives to product ownership. Includes rental, asset sharing, leasing options. (Example: clothing or car-sharing)

☐ **Waste as a Resource:** composting, energy from waste, recycling to create new materials (Example: grinding construction waste to create usable gravel)

☐ **Product Usage/Product Life Extension:** extending product life by reuse, redistribution, repair and/or extended warranty options. (Example: repair of fixable items, donations to encourage second hand product use)

☐ **Smart Material Choices and Resources:** materials sourcing and procurement, renewable energy, clean processes, reduction in hazardous chemicals. (Example: low/clean energy consumption during product transport)

Page 5 - About your circular economy program

* 7. Tell us about your circular economy program in one paragraph or less.

* 8. How many years' experience does your organization have supporting a circular economy?

☐ less than 1 year

☐ 2-5 years

☐ 1-2 years

☐ 5-10 years

- ☐ 10-15 years
☐ 20 years or more

- ☐ 15-20 years

- Go to **thank-you page** if

1. *How would you like to participate?*

is I CAN'T ATTEND, BUT I WANT TO ADD INFORMATION TO TORONTO'S CIRCULAR ECONOMY LISTING

Page 6

* 9. What do you hope to get out of attending this Circular Economy Workshop on June 14?

- | | |
|---|---|
| <input type="checkbox"/> Network with other organizations that support a circular economy | <input type="checkbox"/> Learn more about the circular economy |
| <input type="checkbox"/> Influence policy change | <input type="checkbox"/> Inform the City's Circular Economy Working Group |
| <input type="checkbox"/> Other, please specify | |

Page 7

10. Lunch will be provided at the Workshop, including vegetarian options. Do you have any additional dietary restrictions that require accommodation at the event?

Thank you!

All applicants to attend the Circular Economy Workshop will be notified by June 6 to confirm registration. Questions about this event or collection of information can be sent to: **Robyn Shyllit, Senior Public Consultation Coordinator: robyn.shyllit@toronto.ca, 416-392-3358.**

[Click here to learn more about Toronto's Long Term Waste Management Strategy.](#)

City of Toronto Circular Economy Workshop

Gladstone Hotel

Toronto

June 14, 2018



Goals

Provide overview of the Circular Economy, and new Waste Strategy initiatives

Convene and connect leaders and supporters of circular economy initiatives

Begin creation of a map of circular economy initiatives in Toronto

Develop a draft list of activities for consideration by the future Circular Economy Advisory Group

Host an interactive and engaging event

Report back on outcomes

9:00	Registration, Breakfast
9:15	Welcome and Opening Remarks
9:40	Presentation Circular Economy 101 + Q&A
10:40	BREAK
11:00	Roundtable Discussions: <i>Circular Economy Strategies – What could help you become more circular?</i>
11:35	Full Room - Report Back + Reflection
12:00	LUNCH
1:00	Presentation: <i>Circular Economy Case Study + Advisory Group Overview</i>
1:30	Consensus Workshop: overview presentation + full group brainstorm
1:45	Consensus Workshop Breakout Discussions: <i>What activities could the City's Circular Economy Advisory Group pursue through its roadmap and work plan?</i>
2:45	Full Room - Report back + Reflection
3:15	Wrap up and Next Steps
3:30	Event Adjourns

Transparency

- Information collected through this meeting is in accordance with the Municipal Freedom of Information and Protection of Privacy Act.
- Names of organizations attending and discussion notes will be included in public reports on the event.
- Individual participant names will not be documented.

Lobbyist Registrar

The Office of the Lobbyist Registrar ensures the public disclosure of lobbying activities and oversees the regulation of lobbyists' conduct.

Anyone lobbying public office holders of the City of Toronto must follow the provisions set out in the Lobbyists' Code of Conduct (Article VI of the Lobbying By-law) and read the Code before lobbying.

Please visit **www.Toronto.ca/Lobbying** for more information.

Welcome Remarks



Julia Vol, Government and Cities Network Manager
Ellen MacArthur Foundation

City of Toronto Circular Economy Initiatives & Overview



Annette Synowiec, Manager

Unit for Research, Innovation & a Circular Economy

Kamara Jeffrey, Toronto Urban Fellow Research Associate

Unit for Research, Innovation & a Circular Economy

Why we are here today

1. INFORM

Approval of City of
Toronto Long Term Waste
Management Strategy



Why we are here today

2. LEARN

Provide an overview
of the Circular
Economy



Why we are here today

3. SHARE

Your opportunity to shape the City's Circular Economy Advisory Group and future Roadmap



Unit for Research, Innovation & a Circular Economy (UFRICE)

Catalyst to
advance new,
innovative ideas
& support growth
of a Circular
Economy



Develop and
promote new
materials for
recyclable
materials



Explore
opportunities for
social innovation
and work to
develop
partnerships



Develop CE
roadmap along
with other City
Divisions and
Agencies



Where we are now: Our Work to Date

1. Circular Economy Procurement Framework

Through pilots, the Framework will inform the updating of City's procurement policy from a circular economy lens and build internal and external capacity



Where we are now: Our Work to Date

2. Policy on New Materials

Voluntary process which makes brand/product owners financially responsible for management of their materials and waste diversion programs



Where We are Now: Our Work to Date

3. Coffee Pods Testing

Development of compostable coffee pod pilot methodology and testing completed at City organics processing facility

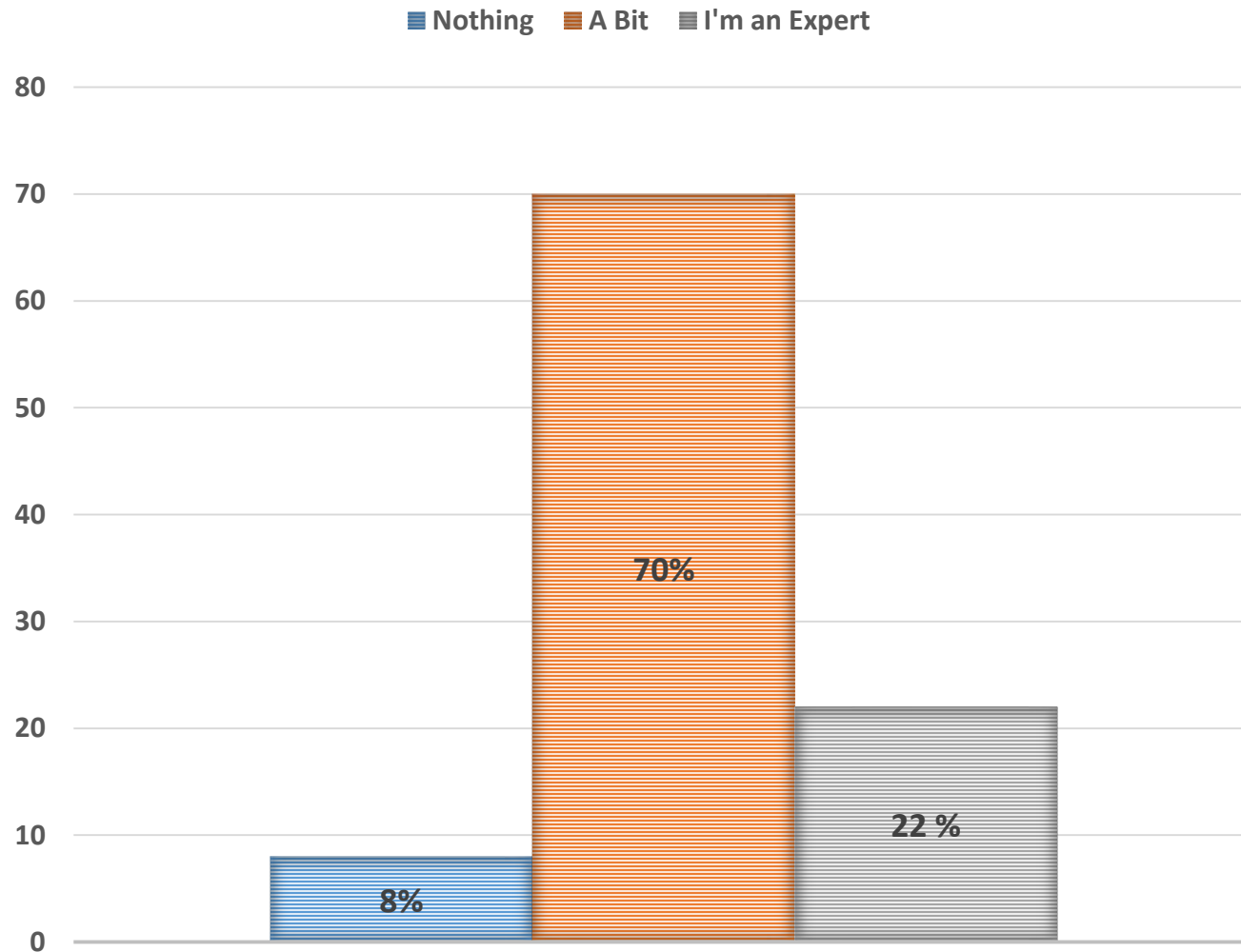


Unit for Research, Innovation and a Circular Economy

Next steps (2018):

- Establish community-led Circular Economy Advisory Group
- Circular Economy Procurement Framework Pilot Testing
- Develop City of Toronto Circular Economy Roadmap

Circular Economy Knowledge at Today's Workshop



What is the Circular Economy?

Alternative to linear
“take – make –
dispose” model



Circular Economy 101 - Key Principles

1. Prevent waste through new business models & improved design
2. Lengthen the life of products through re-use, repair or remanufacture, keep products & materials at their highest utility/value wherever possible
3. Improve end of life processing & recovery of resources



Circular Economy 101 – Butterfly Diagram

OUTLINE OF A CIRCULAR ECONOMY

PRINCIPLE

1

Preserve and enhance natural capital by controlling finite stocks and balancing renewable resource flows
ReSOLVE levers: regenerate, virtualise, exchange

PRINCIPLE

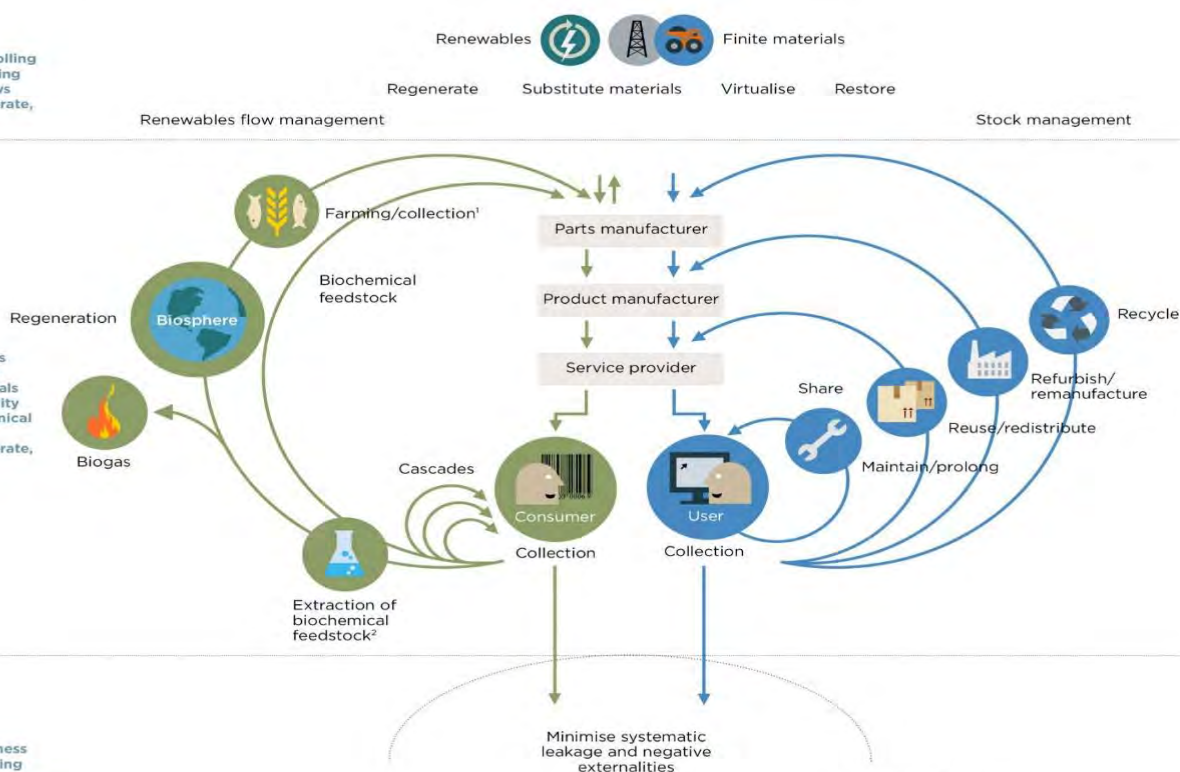
2

Optimise resource yields by circulating products, components and materials in use at the highest utility at all times in both technical and biological cycles
ReSOLVE levers: regenerate, share, optimise, loop

PRINCIPLE

3

Foster system effectiveness by revealing and designing out negative externalities
All ReSOLVE levers



1. Hunting and fishing
2. Can take both post-harvest and post-consumer waste as an input

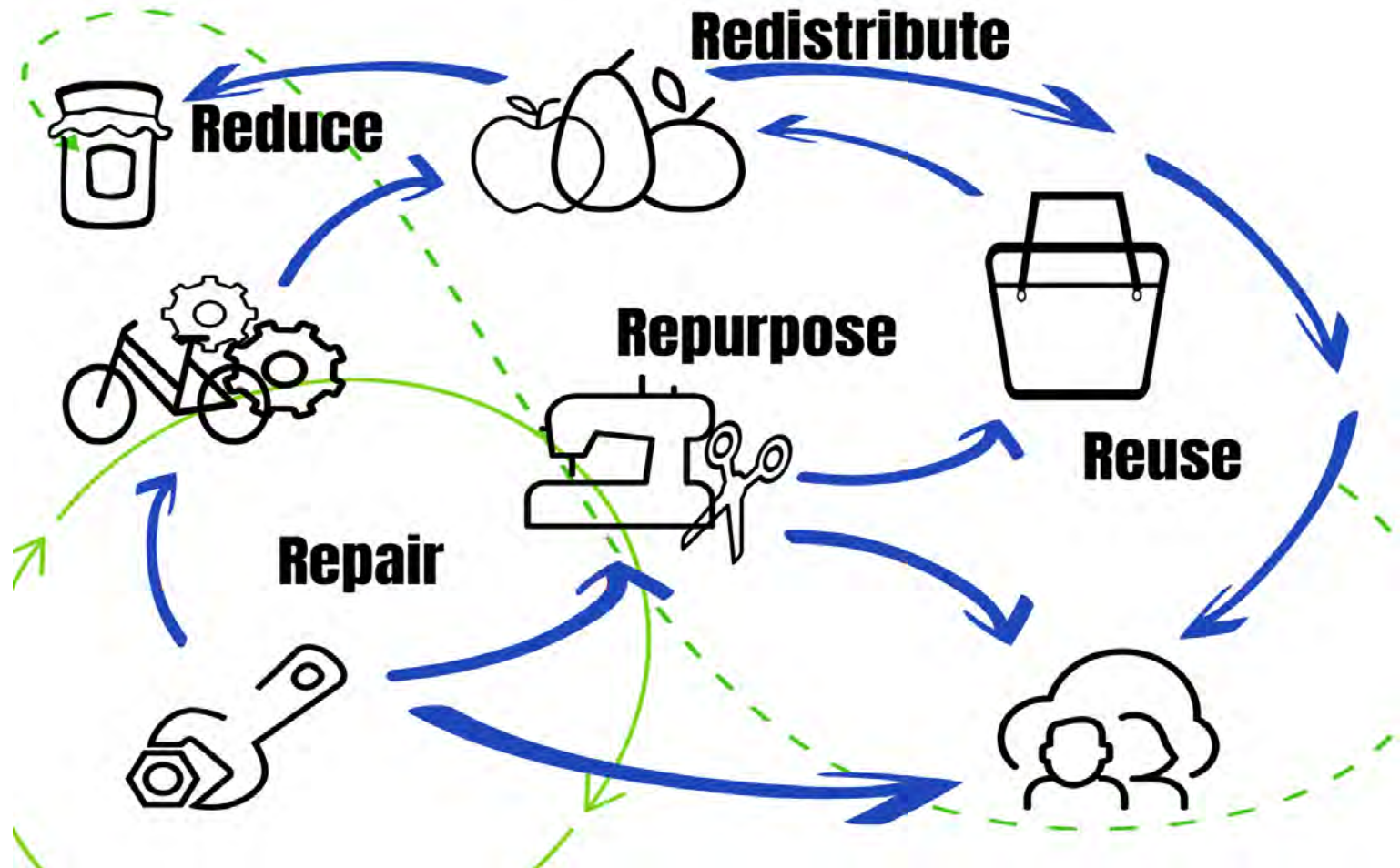
Source: Ellen MacArthur Foundation, SUN, and McKinsey Center for Business and Environment; Drawing from Braungart & McDonough, Cradle to Cradle (C2C).

Source: Ellen MacArthur Foundation

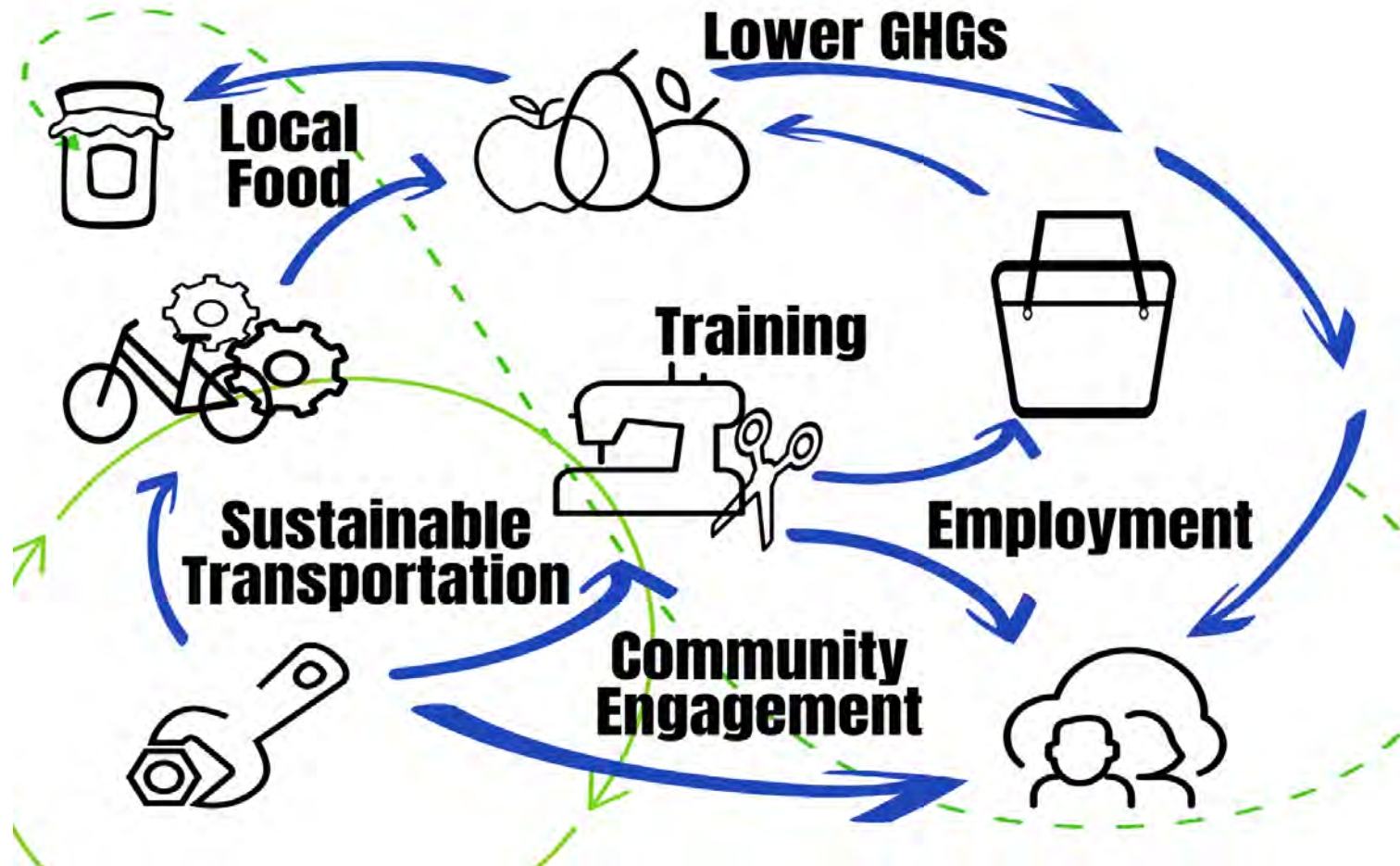
Circular Economy 101



Our Local Potential



Our Local Potential



Shifting to a Circular Economy: Economic Potential

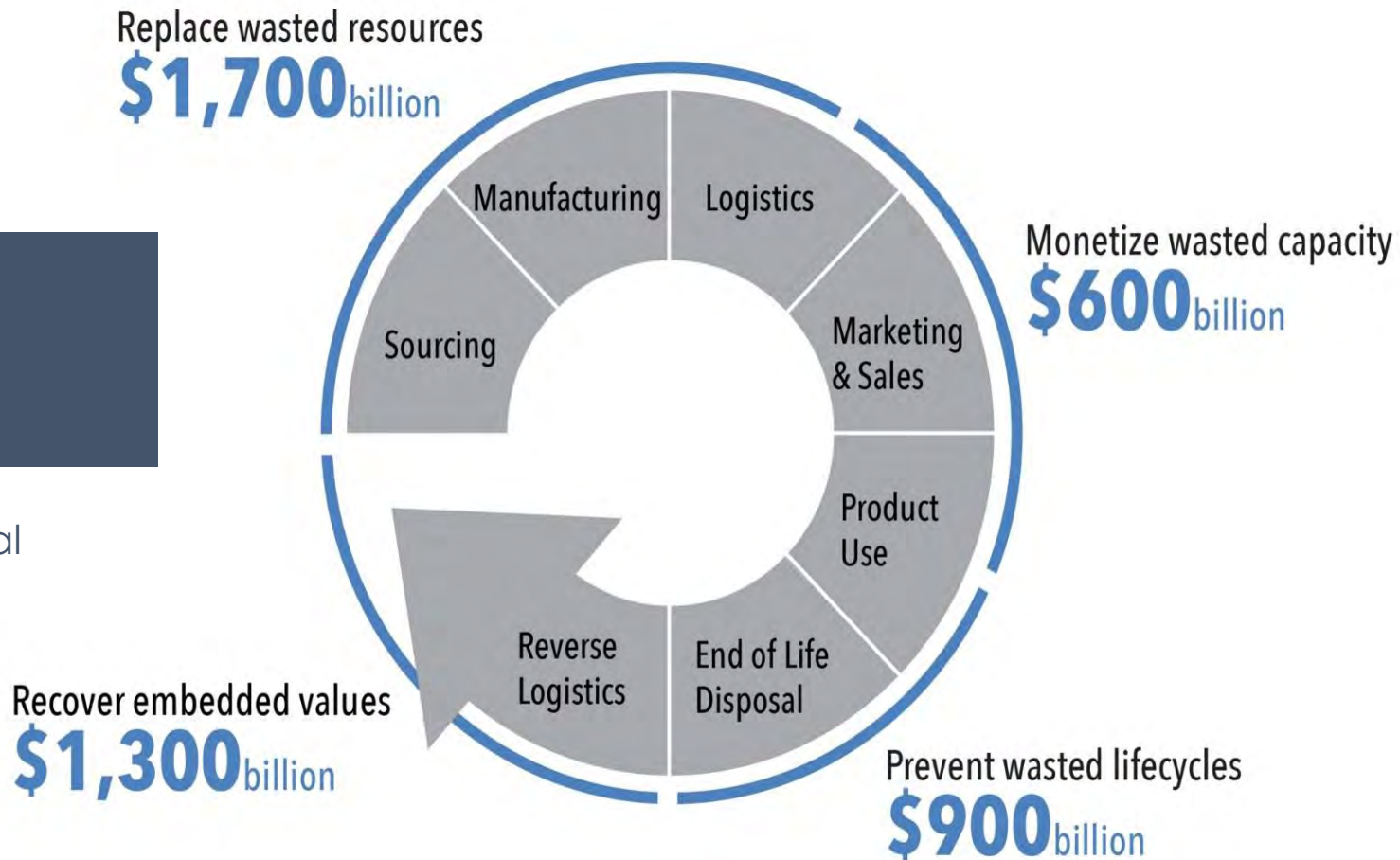
POTENTIAL FOR DENMARK AS A CIRCULAR ECONOMY
A CASE STUDY FROM DELIVERING THE CIRCULAR
ECONOMY - A TOOLKIT FOR POLICY MAKERS



Waste = Opportunity

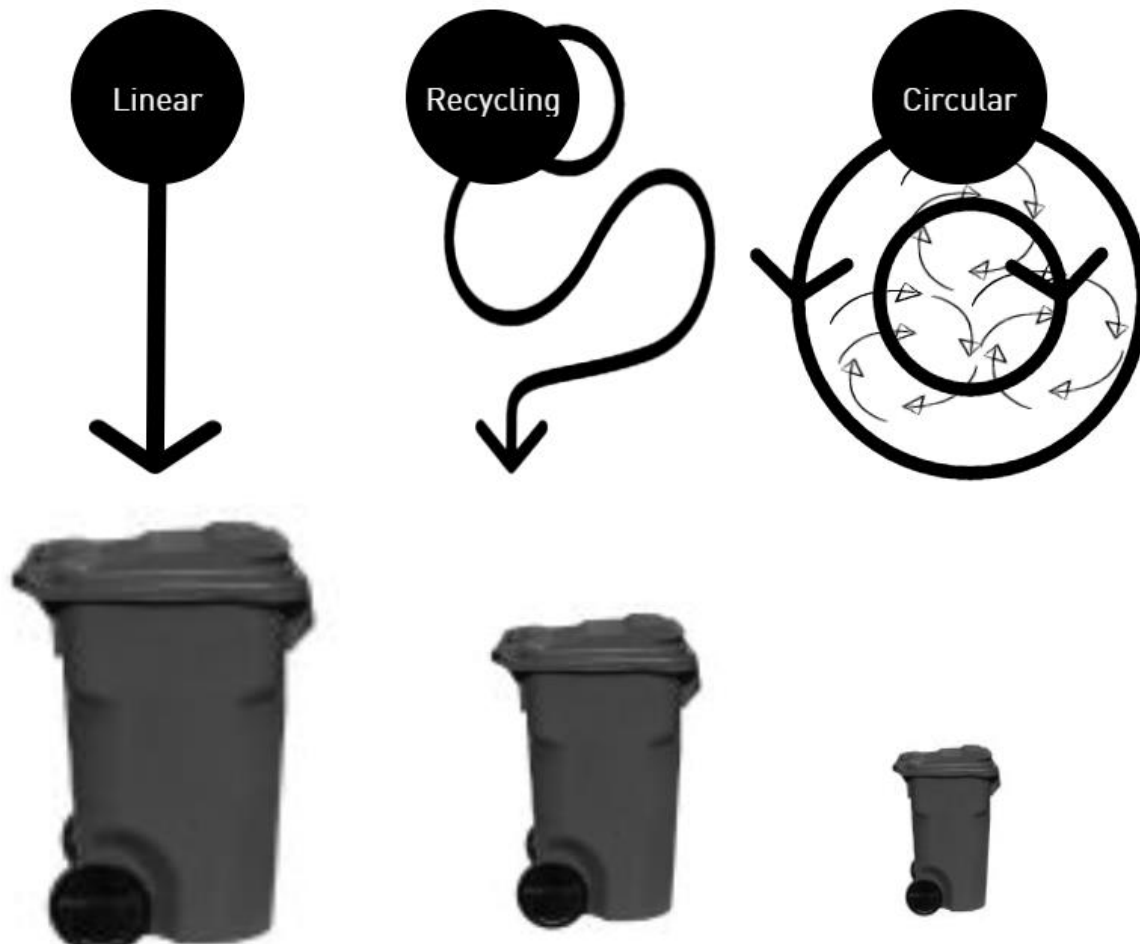
Waste to Wealth

Growth potential
to 2030 in four
linear economy
waste areas



SOURCE: ACCENTURE, 2015

Recycling and Circular Economy: What's the Difference?



Case Study: Enterra Feed Corporation



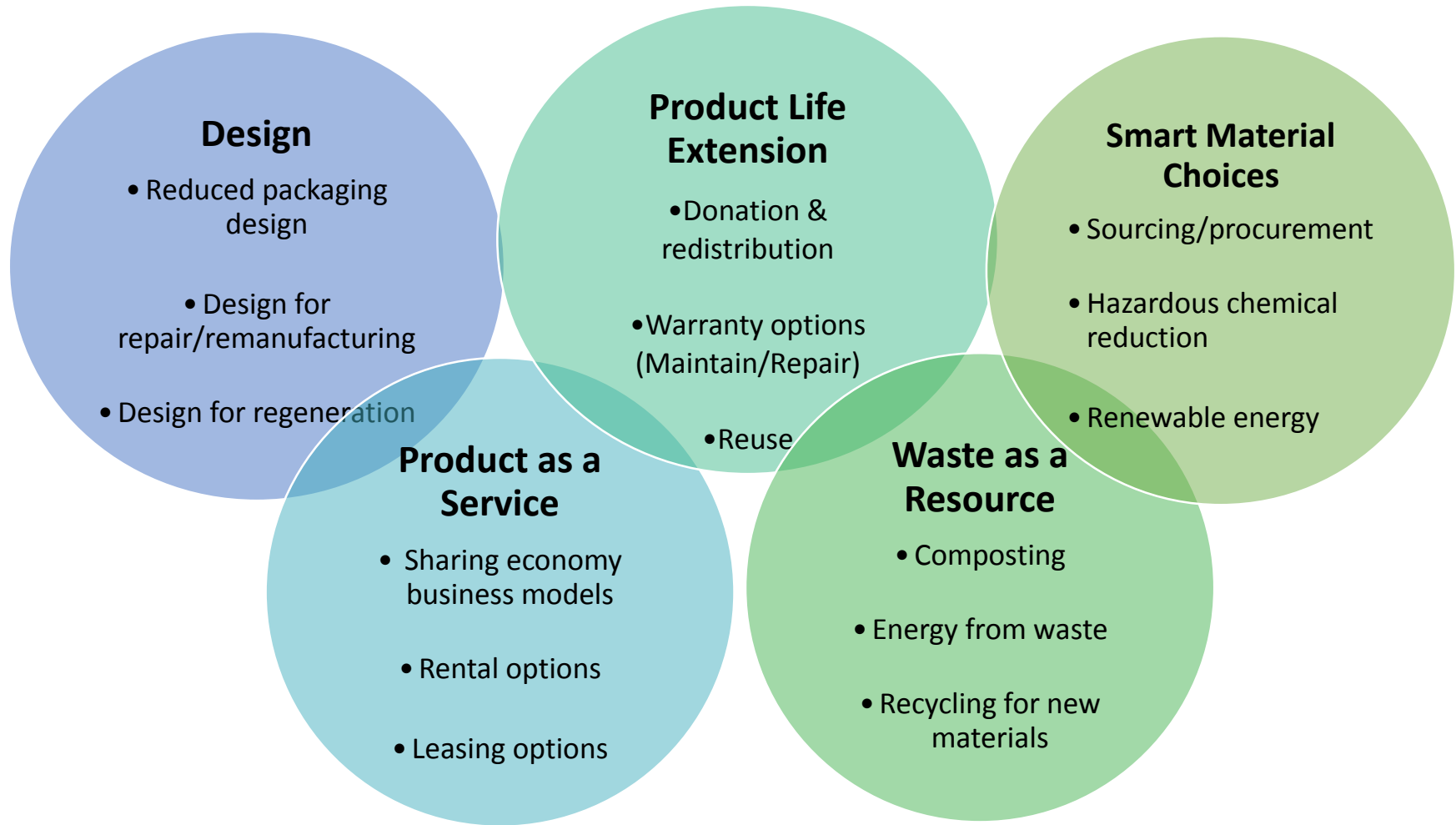
Source: National Zero Waste Council

Case Study: Philips Light as a Service

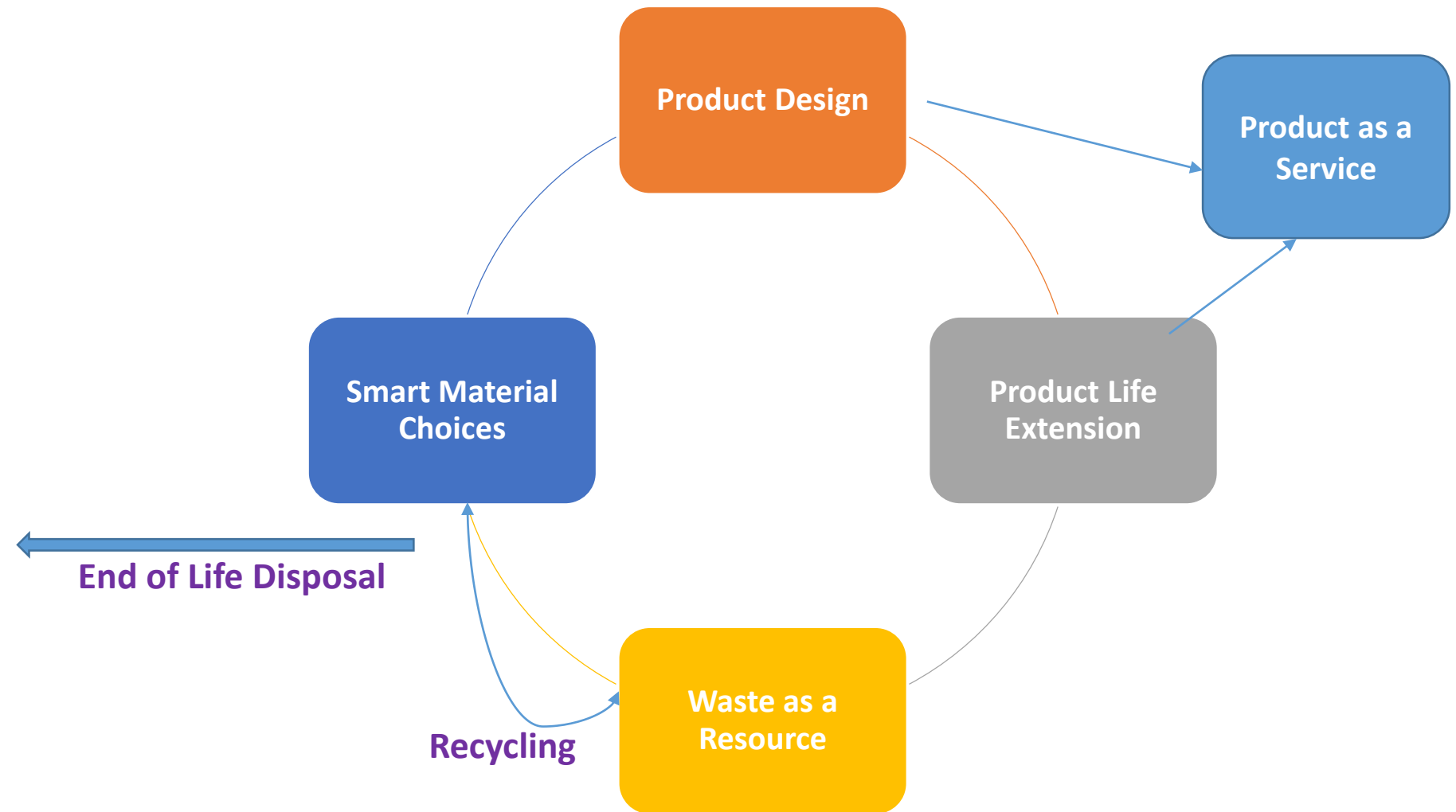


Source: National Zero Waste Council

What's Your Business or Organization's Circular Strategy?



How Circular Strategies Connect



Snapshot: Circular Economy Mapping

CIRCULAR STRATEGY	Food & Beverage	Environment, Waste Management, Infrastructure & City-Building	Consumer Products Incl. Electronics, Tools & Furniture	Fashion & Textiles	Healthcare, Employment & Human Services	BIA, Entertainment & Tourism	Manufacturing & Packaging	TOTAL
Design		1		1		1		3
Product Life Extension	4	5	4	2				15
Product as a Service		2	4	3	1	1		11
Smart Material Choices		3	1			3		7
Waste as a Resource	5	10	1				2	18
TOTAL	9	21	10	6	1	5	2	54

Break: Fill Your Passport



BREAK - Fill in your Passport

What do you have and/or offer?

e.g. Surplus Goods or Services / Production Waste / Packaging / Food waste / Extra Space / Unused data / Idle time / Under-utilized equipment

What could help you become more circular?

e.g. Partnerships / Public awareness / Resources / Data / Technology / Energy / Materials / Space

Roundtable Discussions

PART 1 (10 minutes)

- Name
- Organization
- What we do
- What we have and/or offer?

PART 2 (20 minutes)

- *What could help you become more circular?*
- *Is there anything you would change, or add to, the Circular Economy strategy you originally identified?*

Working Assumptions

1. Everyone has wisdom.
2. We need everyone's wisdom for the wisest result.
3. There are no wrong answers.
4. The whole is greater than the sum of its parts.
5. Everyone will hear others and be heard.

Code of Conduct

DO	DO NOT
Stick to the agenda	Monopolize the discussion or agenda
Participate in the discussion	Swear, yell, name call, or use the word 'liar'
Respect differing opinions	Interrupt or cut people off
Listen to others	Make personal attacks
Speak one at a time	Make derogatory comments based on gender, race, ethnicity, religion, age, sexual orientation or disability
Back up your facts	

Roundtable Discussions

PART 1 (10 minutes)

- Name
- Organization
- What we do
- What we have and/or offer?

Roundtable Discussions

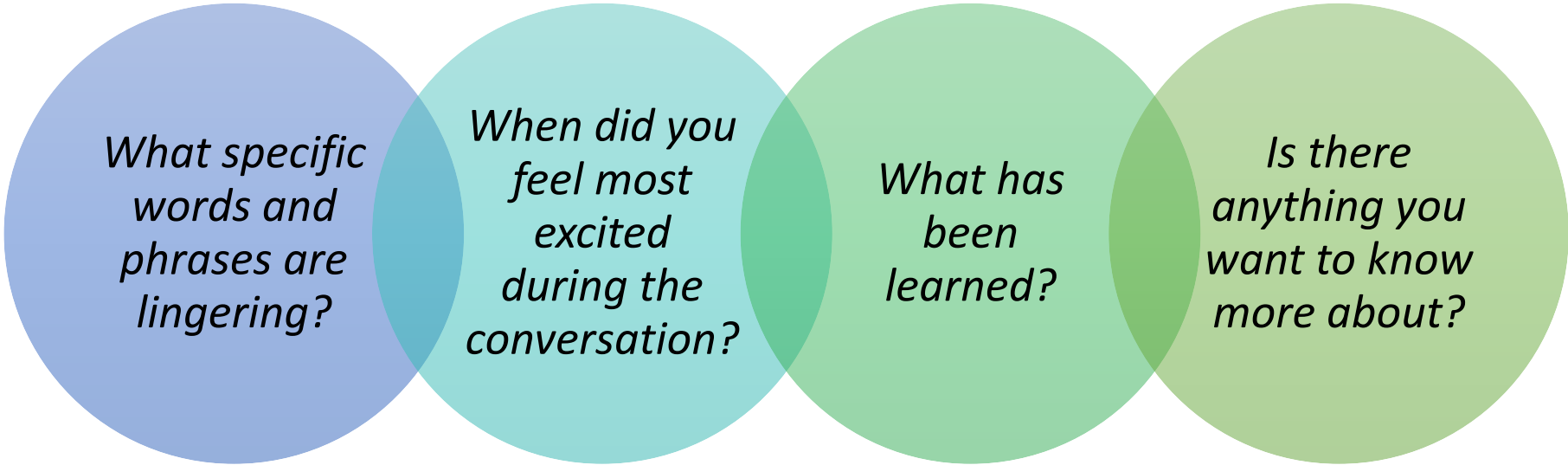
PART 2 (20 minutes)

**What could help you
become more circular?**

Is there anything you
would change, or add
to, the Circular
Economy strategy you
originally identified?

Report Back – key takeaways

*What could
help you
become
more
circular?*



What specific words and phrases are lingering?

When did you feel most excited during the conversation?

What has been learned?

Is there anything you want to know more about?

9:00	Registration, Breakfast, Informal Networking
9:15	Welcome and Opening Remarks
9:45	Presentation Circular Economy 101 + Q&A
10:40	BREAK
11:00	Roundtable Discussions: <i>Circular Economy Strategies – What could help you become more circular?</i>
11:35	Full Room - Report Back + Reflection
12:00	LUNCH
1:00	Presentation: <i>Circular Economy Case Study + Advisory Group Overview</i>
1:30	Consensus Workshop: overview presentation + full group brainstorm
1:45	Consensus Workshop Breakout Discussions: <i>What activities could the City's Circular Economy Advisory Group pursue through its roadmap and work plan?</i>
2:45	Full Room - Report back + Reflection
3:15	Wrap up and Next Steps
3:30	Event Adjourns

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City of Toronto Economic Sector Development & Urban Wood Case Study



Rob McMonagle, Senior Advisor
Economic Development & Culture,
City of Toronto



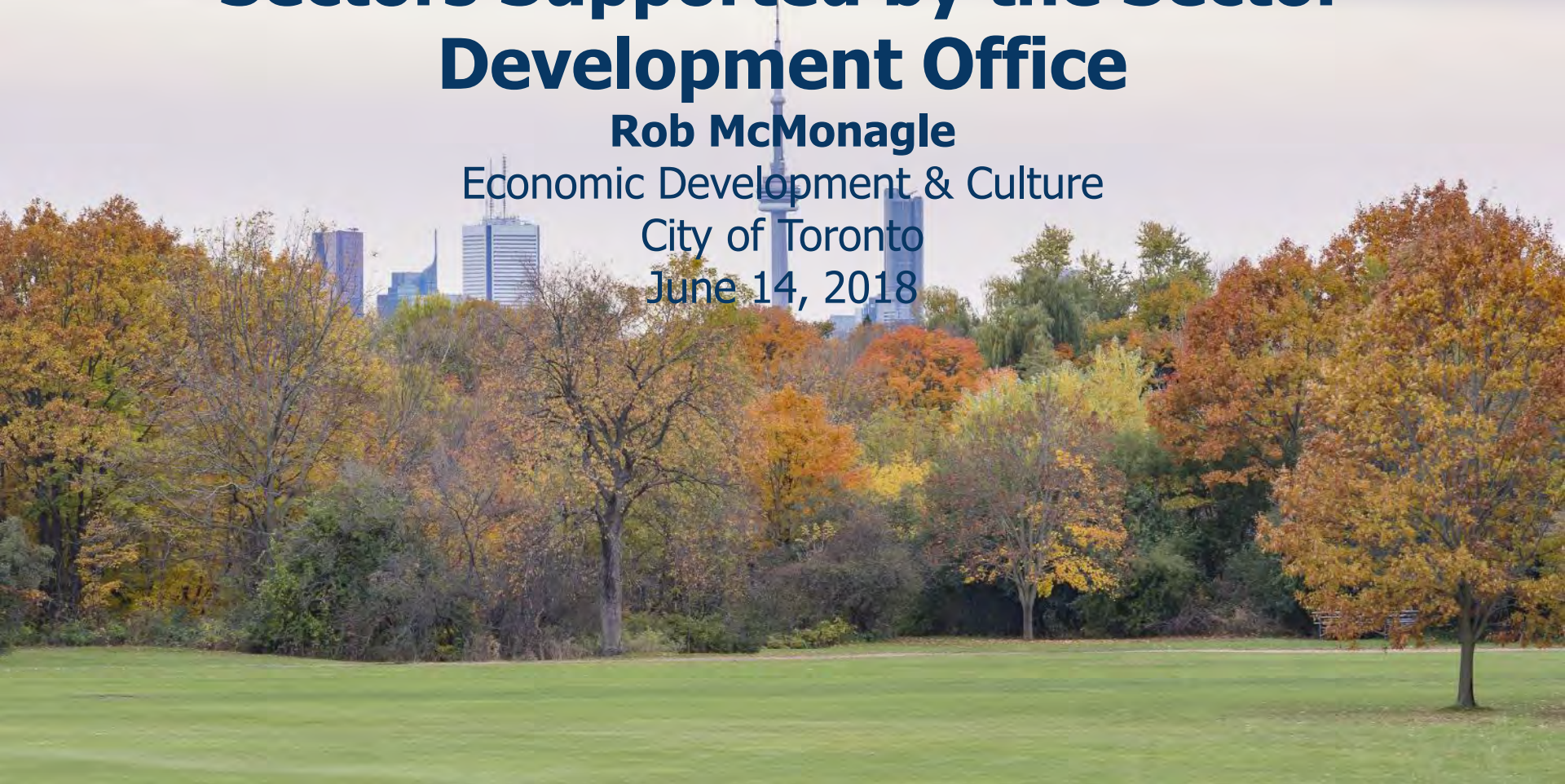
Sectors Supported by the Sector Development Office

Rob McMonagle

Economic Development & Culture

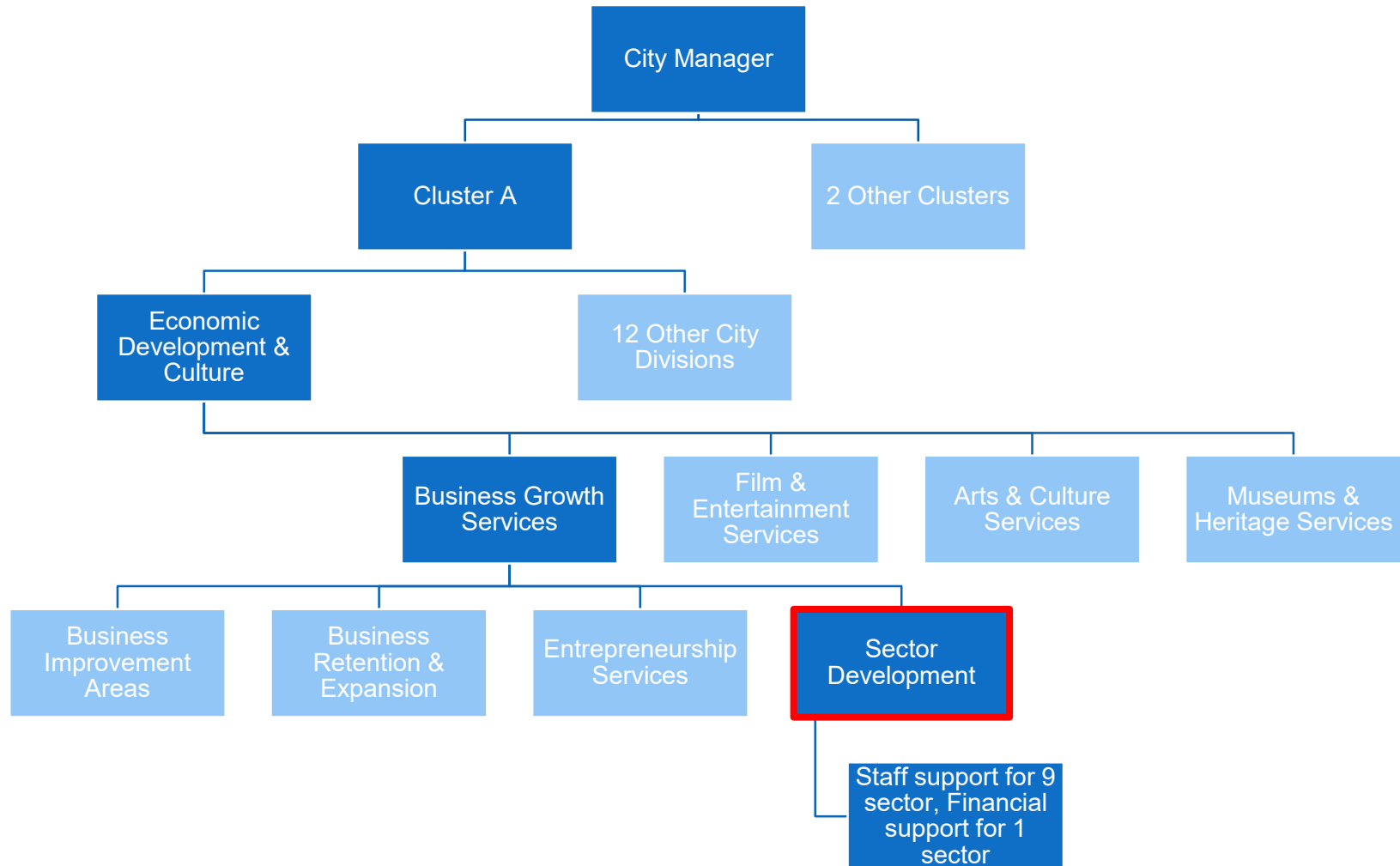
City of Toronto

June 14, 2018





Sector Support Inside the City of Toronto





City of Toronto's Sectors

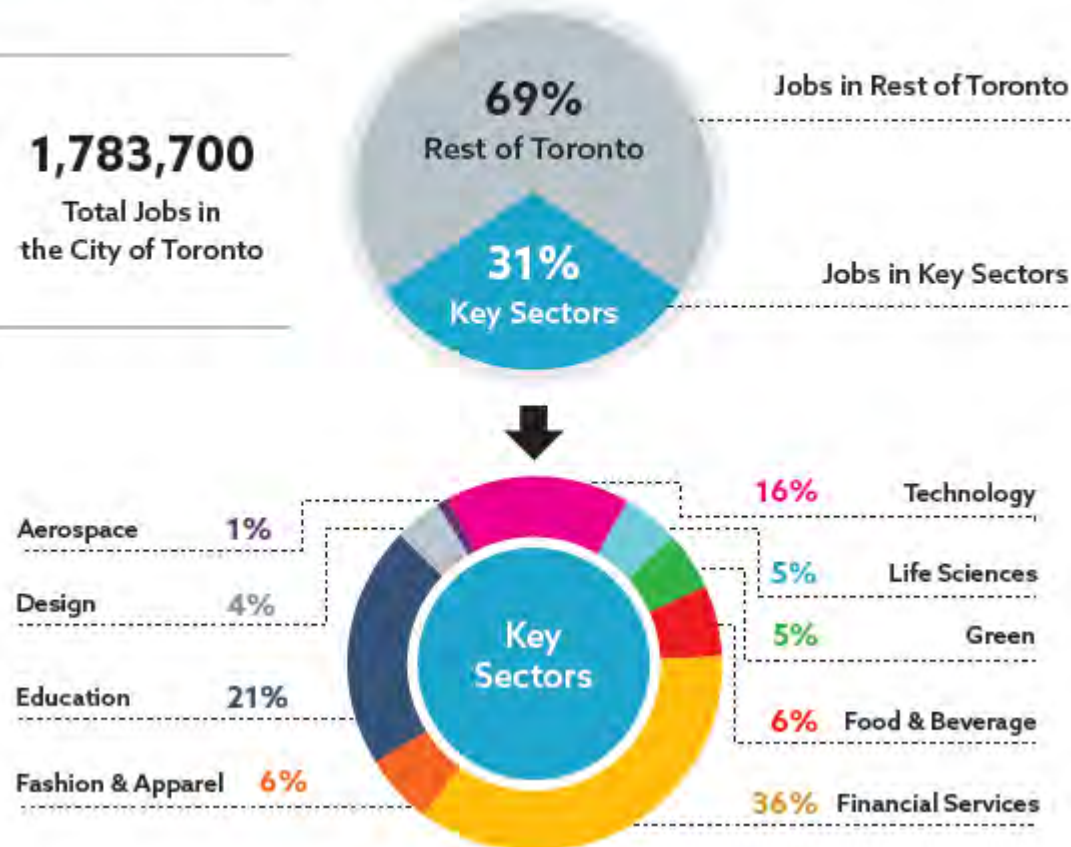
Supported by the Sector Development Office – 2016 data



Providing more than 30 percent of the 1,783,700 jobs for Toronto's economy, the key sectors are a major source of employment in Toronto.

1,783,700

Total Jobs in
the City of Toronto





Green – 29,200 jobs (2016)

From solar installers to saw mills, Toronto's Green economy represents an incredibly diverse sector of the city's economy.

Distribution of Jobs in the Green Sector



The lack of statistical information collected on the Green sector, and the fact that Green transcends the traditional sector boundaries (is spread across traditional industry definitions), has made defining green jobs a more challenging task. Although there are many methodologies that have been developed, there is no broadly accepted policy driven consensus that has emerged.



Sector Key Activities / Areas of Focus

Market Development: Export, Investment and Trade

- Leverage and enhance Toronto's international presence in the global marketplace by developing, leading and supporting initiatives that are focused on expanding domestic and foreign investments into the City, and working with local businesses to expand exports and from the City.

Cluster Development

- Mobilize regional cluster stakeholders to foster collaboration and implement strategy and action plans that support prioritized cluster development goals

Marketing & Promotion

- Develop strategies and action plans that develop, define and promote sector strengths aimed at attracting and growing business, investment and talent both internationally and domestically

Advocacy, Policy & Regulatory Support

- Form informed positions on topics that matter to business and our sectors that bolster the competitiveness of Toronto as a vibrant business hub and improve cost competitiveness, in collaboration with sector stakeholders & internal and external partners

Sector Focused Workforce Development

- Facilitate the development of workforce pipeline plans to address Industry specific workforce opportunities and challenges. Develop strategies to help businesses gain access to talent, and jobseekers to find gainful employment



What we do: Roadmaps for Success of our Sectors

Building the Future

of

Toronto's Green Sector International
Marketing Plan



Toronto:
A Leading Financial Services Centre

September 2002

CANADA'S HIGH-TECH HUB

TORONTO



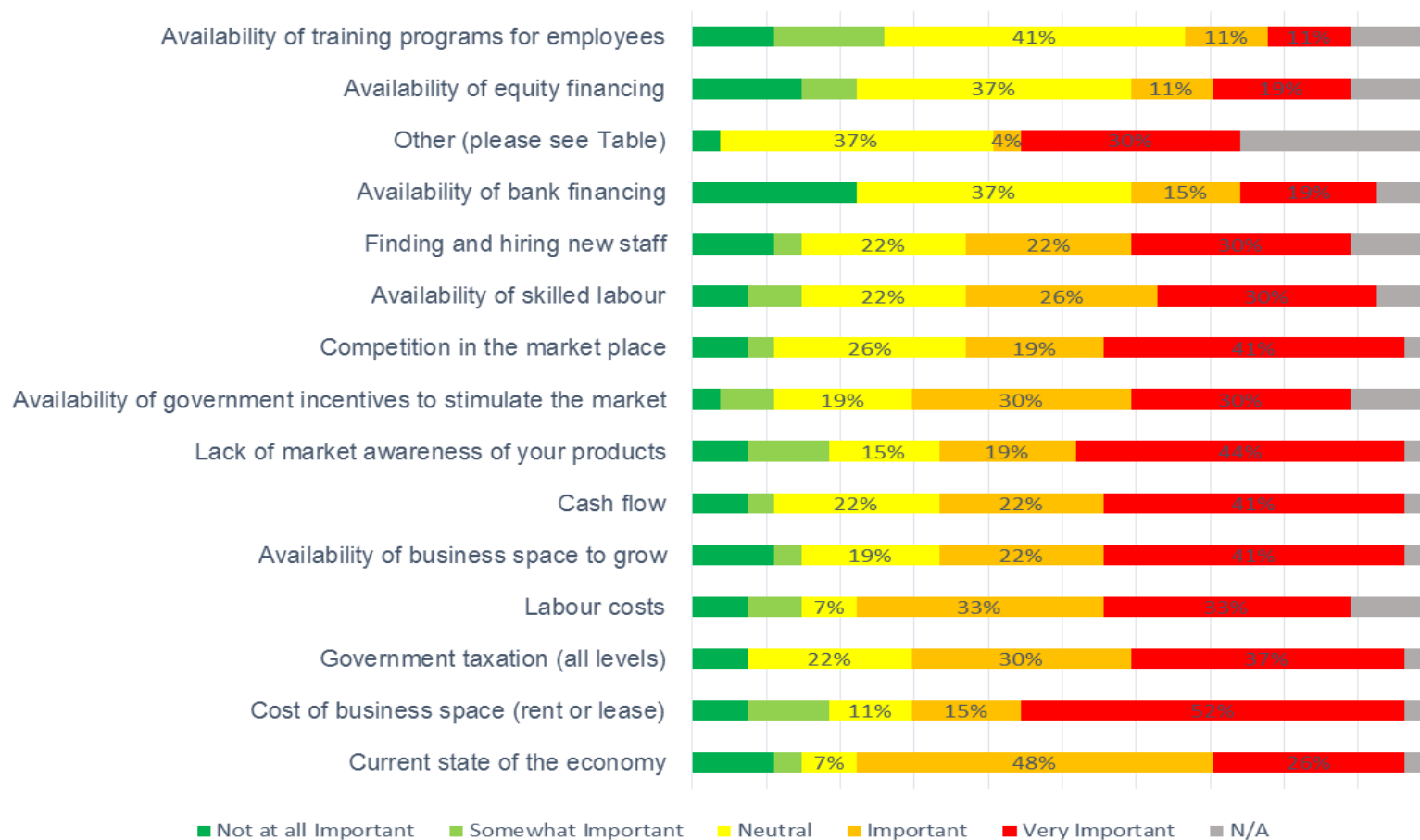
ial
orum

elopment



What We Do: Understanding Sector Needs

Barriers to Growth





Support Programs for Growing Toronto's Green Businesses

- The Sectors Office has a limited budget to support our sectors but we use our networks and staff expertise to create opportunities for economic growth.

The Green Market Acceleration Program (GMAP)

- GMAP allows local private sector firms to pilot and test innovations related to environmental benefits using City assets.
- The GMAP team works with local companies who need:
 - Applied research - advice, data, or samples from City experts while they are developing their product
 - Proof of concept – testing site for the product
 - Pilot, demonstration and evaluation – full scale operation of a near market ready product
- GMAP acts as:
 - An advocate for the project to find an appropriate host Division
 - Review the proposal to ensure its viable and meets specific criteria (addresses a City Divisional concern)
 - Act as the “project manager” for the proposal, facilitating the legal agreement, acting as the go-to person on issues, and overseeing any installation work (addresses a City Divisional concern)

FOR MORE INFO VISIT THE GMAP WEBSITE - www.toronto.ca/gmap



Solid Waste Workshop on the Circular Economy

June 14, 2018

DEVELOPING TORONTO'S URBAN WOOD CLUSTER

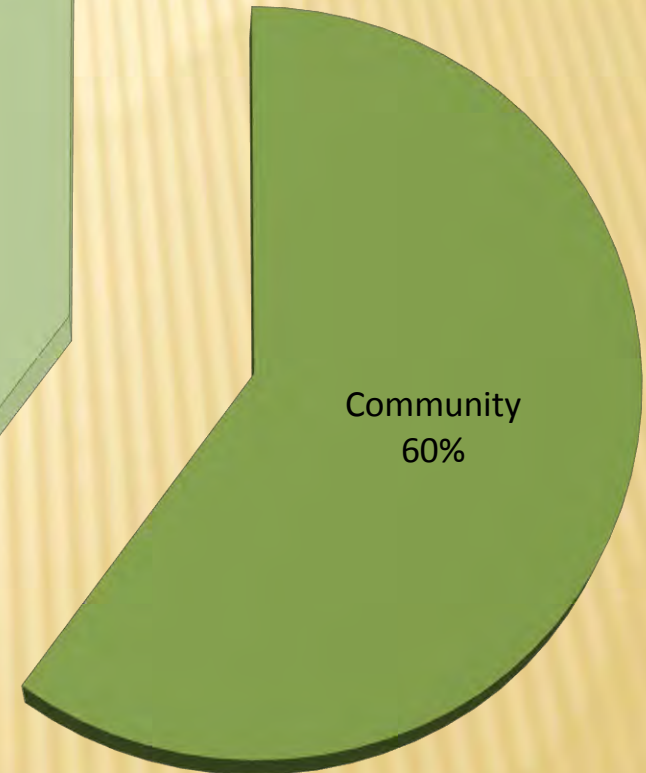
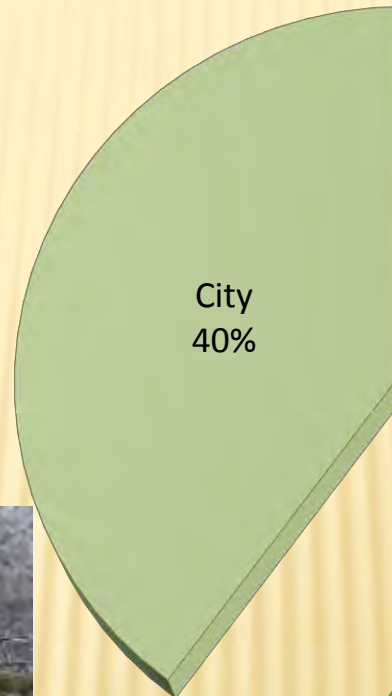
TORONTO'S URBAN FOREST

Inventory of Trees

- ✖ Estimated 10.2 million trees total
- ✖ Mortality rate is estimated at 2%
(**200,000 trees die per year**)
- ✖ However due to climate change:
 - + diseases and pests are creating surges of species die-off
 - + More extreme weather events bring down trees



4,100,000 trees



6,100,000 trees

AND WE HAVE A LOT OF FALLEN TREES



TURNING WASTE INTO A VALUABLE RESOURCE



- ✘ City produces about 50,000 tonnes of bio-mass annually
- ✘ There has been no current market for this material

- ✘ Cost to the City is significant

The Potential Opportunity – A 1 tonne example:

- ✘ A City ash log found in Forestry wood transfer station
 - + 7' long – 3' diameter
 - + weight of 1,000kg and volume of 1m³

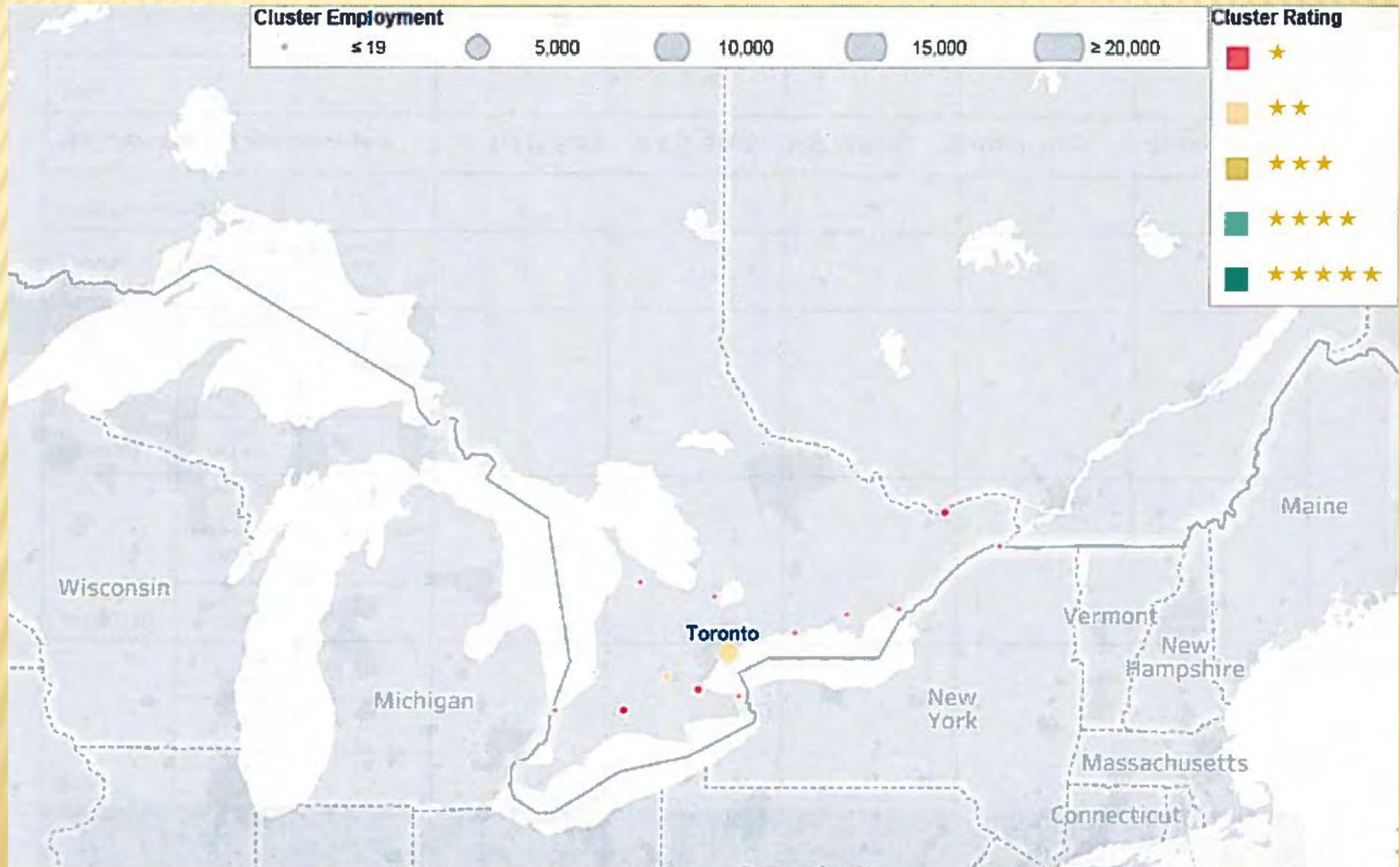
	Cost	Value
Grinding	\$6.60	
Disposal	\$106.90	
Selling as chips (for bio-mass energy)		\$26
Selling it as a saw log – construction grade		\$42 - \$84
Using it as an energy source		\$72
<u>Retail Values</u>		
Firewood		\$100.
Mulch		\$122.
Wholesale construction lumber		\$560.
Retail construction lumber		\$924.
Furniture made of local Ash		\$4,000-\$8,000

CANADA – A FURNITURE MAKING POWERHOUSE

- ✖ **Canada is the 4th largest furniture exporter in the world behind Italy, China and Germany**
- ✖ \$11 billion dollar industry in Canada
- ✖ 105,000 direct employees
- ✖ 50% of production is in Ontario

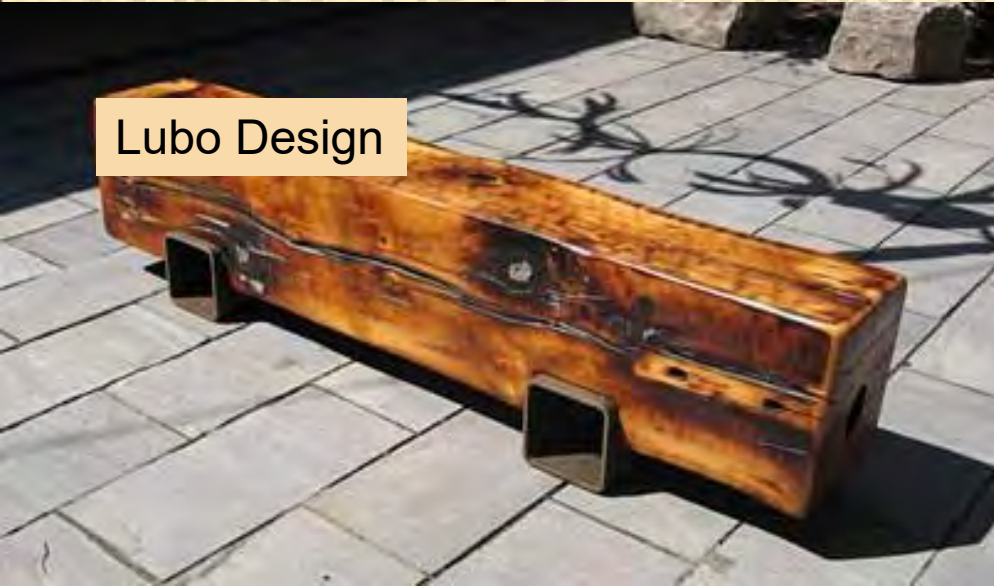


ONTARIO'S WOOD PRODUCT CLUSTERS



LOCAL USES - FURNITURE

Lubo Design



Brothers Dressler



Cherrywood Studios



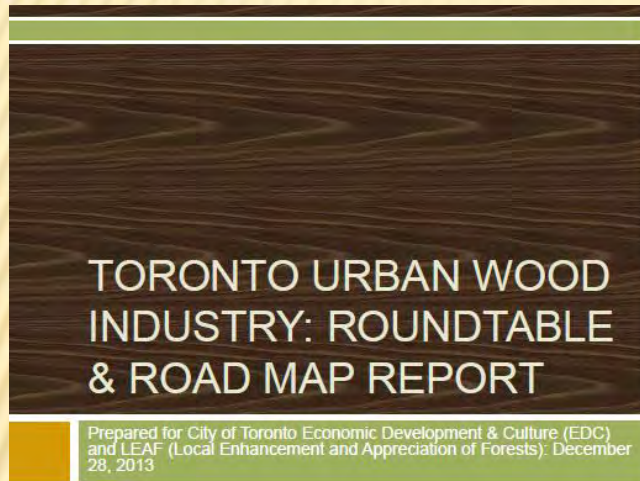
Joelharrisonoff



BUILDING A CLUSTER FROM SCRATCH

- ✘ Normally industry needs to lead in self-organizing
- ✘ However City government was looking for a solution that required creating a demand for the wood
- ✘ While there were individual craftspeople there was no supply chain, marketing or market
- ✘ Sector Development Office created a number of initiatives starting in 2012 with the industry that supported growth of the cluster

#1. URBAN WOOD INDUSTRY ROADMAP [CLUSTER BUILDING]



- ✗ 4 Key initiatives identified by stakeholders in workshop in 2014



Sector & Networking Development
(Capacity Building Initiative)



Neighbourhood Pilot Project:
Holistic Approach



High Volume Industry Strategy



Marketing Strategy for Urban Wood

#2. CITY PILOT WITH A SAWMILL [CLUSTER BUILDING]





#3. IIDEX WOODSHOP EXHIBITION [MARKET DEVELOPMENT]

- ✗ 15 'commercial ready prototypes' made out of City of Toronto ash trees
- ✗ Designed and built by Toronto makers
- ✗ Displayed at design and furniture shows across Canada
- ✗ Now into its 5th year
- ✗ Products have been sold internationally including Canada House in UK



CITY OF TORONTO + IIDEX CANADA + IDEACIOUS.COM PRESENT
IIDEX WOODSHOP

IIDEX WOODSHOP



#4. DIRECTORY OF URBAN WOOD PRODUCTS AND SERVICES [MARKETING]

- ✖ Support and connect wood industry with tree owners, and with each other
- ✖ Public education on the ‘opportunity’ of salvaging urban wood
- ✖ Regularly updated, new companies added as they connect with us
- ✖ www.yourleaf.org/webfm_send/134



#5. MARKETING IN THE COMMUNITY [MARKETING]

- ✘ How can the City assist in linking home-owners to the local wood industry when their tree needs to be removed?
- ✘ Brochures are handed out when a tree owner applies for a removal permit



NeighbourWood!

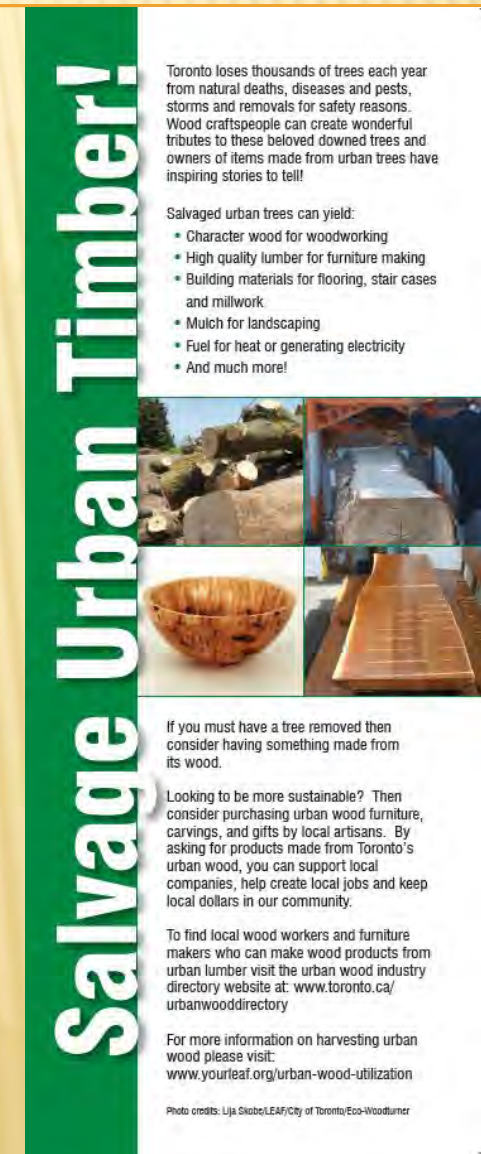
**Reclaim Trees.
Reduce Waste.
Create Beauty.**

Toronto's trees clean the air, provide cooling shade in the summer, reduce heating costs in the winter, reduce erosion and storm water runoff, and increase property values.

Reusing trees that are dead or dying is a green and sustainable practice.

 **Toronto**

Economic Development & Culture




Salvage Urban Timber!

Toronto loses thousands of trees each year from natural deaths, diseases and pests, storms and removals for safety reasons. Wood craftspeople can create wonderful tributes to these beloved downed trees and owners of items made from urban trees have inspiring stories to tell!

Salvaged urban trees can yield:

- Character wood for woodworking
- High quality lumber for furniture making
- Building materials for flooring, stair cases and millwork
- Mulch for landscaping
- Fuel for heat or generating electricity
- And much more!



If you must have a tree removed then consider having something made from its wood.

Looking to be more sustainable? Then consider purchasing urban wood furniture, carvings, and gifts by local artisans. By asking for products made from Toronto's urban wood, you can support local companies, help create local jobs and keep local dollars in our community.

To find local wood workers and furniture makers who can make wood products from urban lumber visit the urban wood industry directory website at: www.toronto.ca/urbanwooddirectory

For more information on harvesting urban wood please visit: www.yourleaf.org/urban-wood-utilization

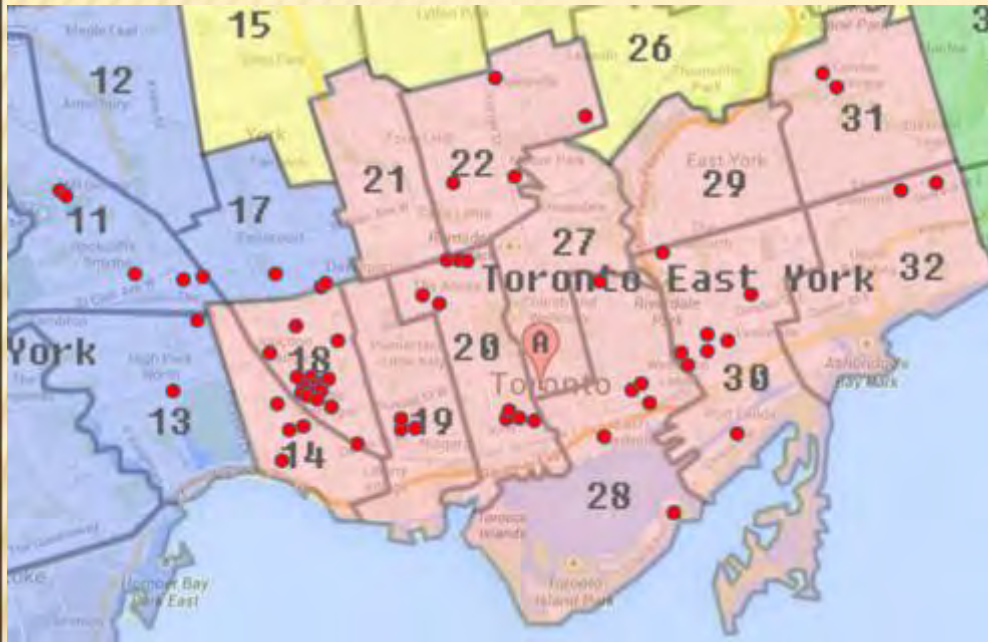
Photo credits: Uja Skobe/LEAF/City of Toronto/Eco-Woodturner

HOW ARE WE DOING? IS THE INDUSTRY GROWING?

- ✖ Survey and then follow up report done
- ✖ Report released in Winter of 2017
- ✖ www.yourleaf.org/sites/yourleaf.org/files/toronto_urban_wood_cluster_report_v3.12_feb-17.pdf



SIZE AND LOCATION

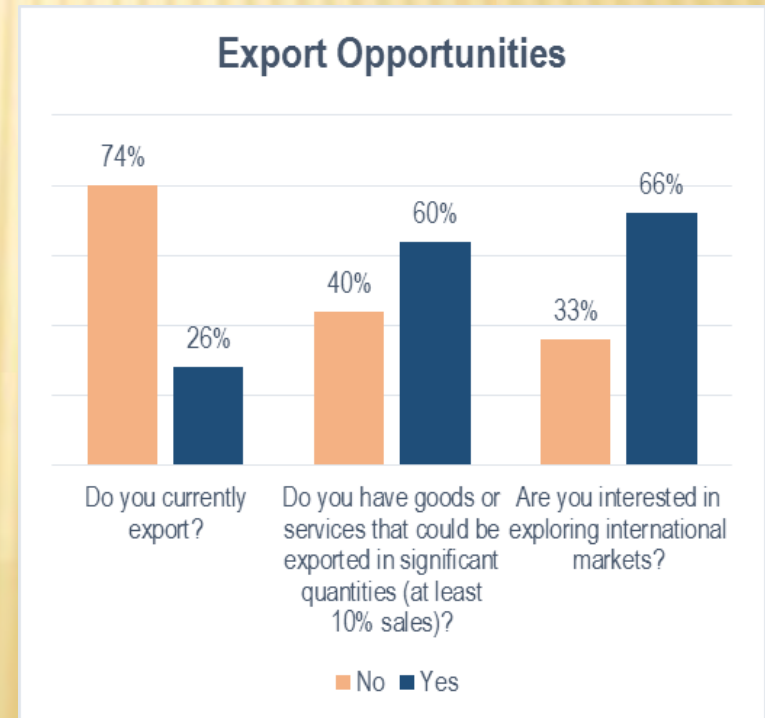
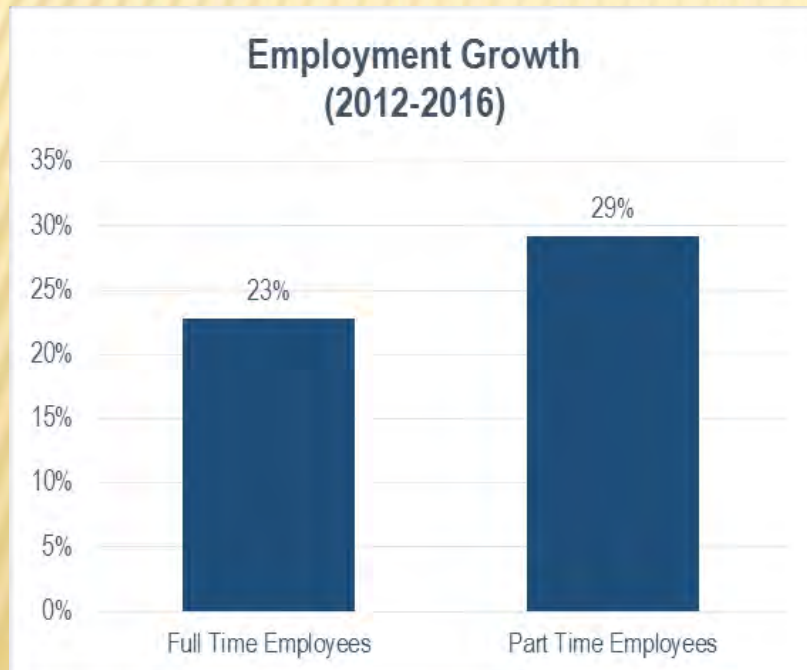


- ✗ In 2012 there were 10-15 companies
- ✗ In 2017 there are almost 200 companies in the cluster
- ✗ Many are clustered in one area in Toronto
- ✗ Projected to employ over 600 people by 2018

EMPLOYMENT AND EXPORT POTENTIAL

- ✗ 7.2% annual employment growth

- ✗ 26% of firms are exporting
- ✗ Canadian average for small firms is 11%



THE URBAN WOOD STORY IN TORONTO IS JUST BEGINNING





Rob McMonagle, Senior Advisor,
The Green Economy,
Sector Development Office
Economic Development & Culture,
City of Toronto

rmcmona@toronto.ca



Consensus Workshop

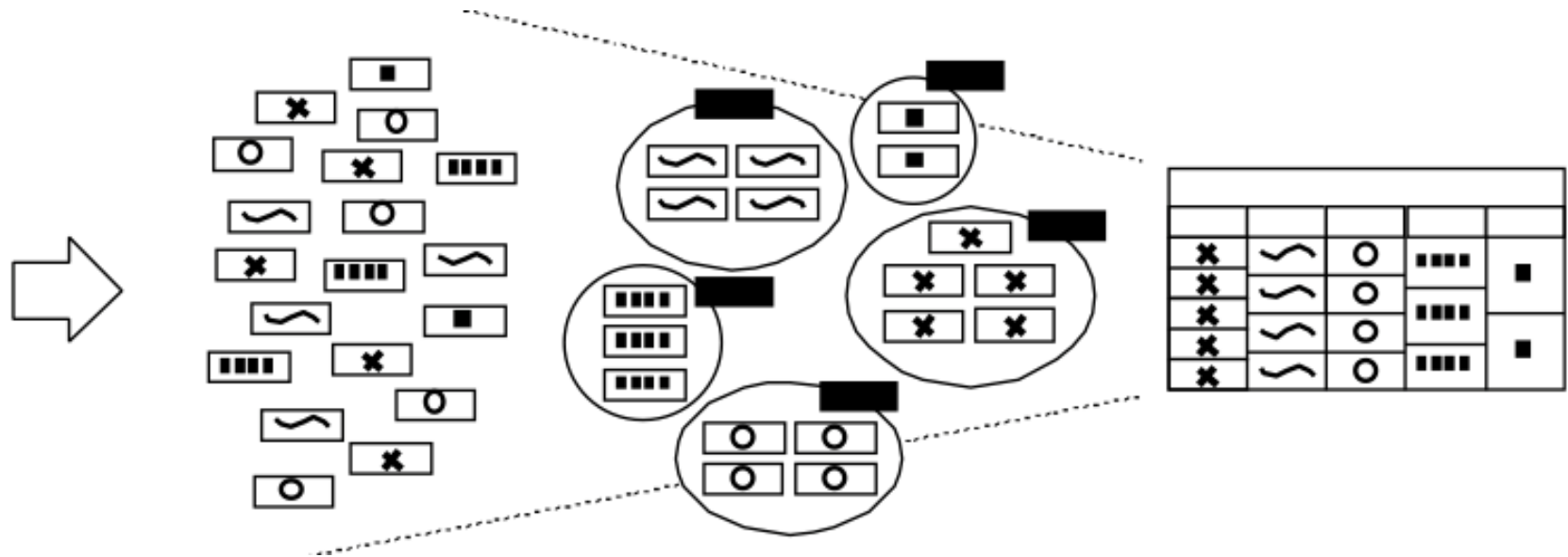


Consensus Workshop

FOCUS QUESTION

What activities could the Circular Economy Advisory Group pursue through it's roadmap and work plan?

Consensus Workshop Process



Brainstorm

Generate ideas

Form Relationships + Cluster

Gather ideas and identify relationships

Naming Activity

Discern the focus of each grouping

Reflect

Reflect on the result

Working Assumptions

1. Everyone has wisdom.
2. We need everyone's wisdom for the wisest result.
3. There are no wrong answers.
4. The whole is greater than the sum of its parts.
5. Everyone will hear others and be heard.

Brainstorm Individually (5 minutes)

What activities could the City's Circular Economy Advisory Group pursue through its roadmap and work plan?

4-7 ideas /
person

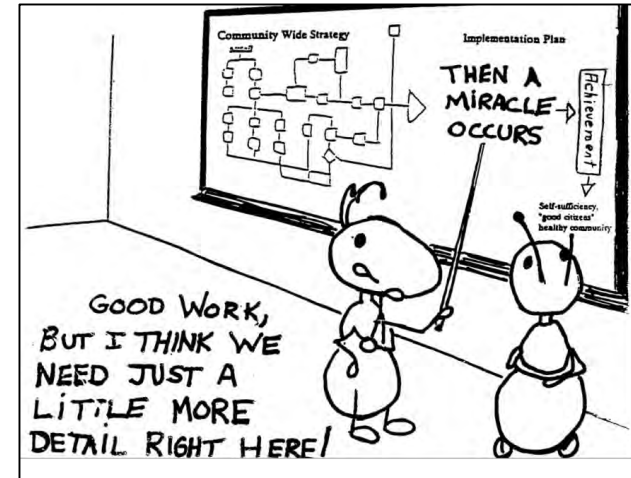
3 - 7
words/idea

1 idea /
card

No
Acronyms

BE
SPECIFIC

Large clear
writing



Brainstorm Individually

(5 minutes)

What activities could the City's Circular Economy Advisory Group pursue through its roadmap and work plan?

1 idea /
card

4-7 ideas /
person

3 - 7
words/idea

Large clear
writing

No
Acronyms

BE SPECIFIC

S - Short Term

- 1-5 years

M – Mid Term

- 5-10 years

L - Long Term

- 10+ years

What activities could the City's Circular Economy Advisory Group pursue through its roadmap and work plan?

1. Star your favourite ideas

What activities could the City's Circular Economy Advisory Group pursue through its roadmap and work plan?

1. Star your favourite ideas
2. Discuss all of your starred ideas with a partner or in a group of three.
3. Set aside 5-6 of your groups boldest / clearest / best ideas. Keep the rest of your ideas available too.

What activities could the City's Circular Economy Advisory Group pursue through its roadmap and work plan?

Move to working groups.

What activities could the City's Circular Economy Advisory Group pursue through its roadmap and work plan?

Choose 2 of your groups clearest, boldest, or favorite ideas to give to the facilitator at the start of the activity.

What activities could the City's Circular Economy Advisory Group pursue through its roadmap and work plan?

What ideas are related?

What can be grouped together?

Do we need a new cluster?

What activities could the City's Circular Economy Advisory Group pursue through its roadmap and work plan?

What is this cluster about?

What activities could the City's Circular Economy Advisory Group pursue through its roadmap and work plan?

Reflect

What do you notice about the results?

Is there anything that stands out?

What do think could be the most challenging?

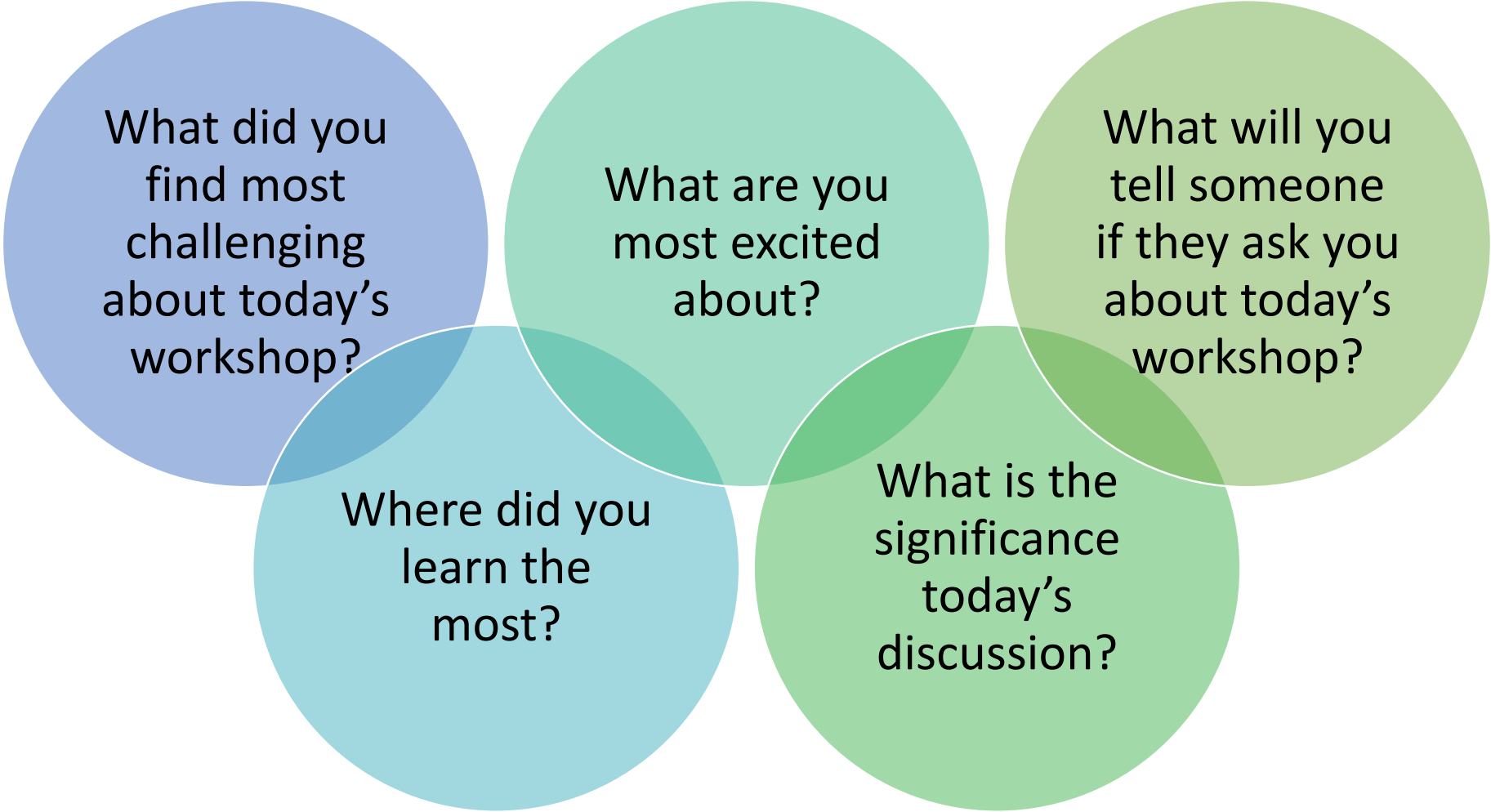
Where do you see the most opportunity?

Who would like to share these insights for report back?

What activities could the City's Circular Economy Advisory Group pursue through its roadmap and work plan?

Full Group Report Back

1. What were your group's outcomes?
(categories, prioritization)
2. What did think could be the most challenging?
3. Where did you see the most opportunity?



What did you
find most
challenging
about today's
workshop?

What are you
most excited
about?

What will you
tell someone
if they ask you
about today's
workshop?

Where did you
learn the
most?

What is the
significance
today's
discussion?

Next Steps

www.toronto.ca/wastestrategy



Thank you!



Contact Information:

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Manager, UFRICE

Solid Waste Management Services

City Hall

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25th Floor, East Tower

Toronto, ON M5H 2N2

Annette.Synowiec@Toronto.ca

Organization	Circular Economy Strategy	What We Do	What Do You Have And/Or Offer?	What Could Help You Become More Circular?
3mantra	Product As A Service	Providing digital solutions that improves bottom-line through mobile,cloud based AI or AR applications	Digital services which can help/expedite the CE initiatives between the community itself, between business and consumer or B2B. The execution of CE initiatives can be significantly enhanced effectively executed via use of simple, mobile or event next-generation tech such as AI for e.g..	* Partnership * Resources * Data
BOMA Canada	Smart Material Choices and Resources + Product Life Extension	Provide green building certification program	As a green building certifier we encourage building owners and managers by: 1. Reduce energy and water consumption through preservative maintenance and procurement of high efficiency equipment's 2. Waste diversion efforts that go above and beyond municipalities program	* Gauge appetite for procurement strategies that are non transformative (consider suppliers EPR strategies/willingness to change) * Increase transparency in diversion rate calculations on side of waste service providers * Case studies of economic benefits associated with diversion and design * Create partnership but with buildings who have same wrote challenges to help them resolve it together

Boomerang Bags Toronto	Waste As A Resource	We work to reduce the use of plastic bags by engaging local communities in the making of Boomerang Bags	1. Surplus of fabric 2. Unused Data 3. Surplus of requisition of bags	* Partnerships, which allows us to use their space share their volunteer base and expertise. * Public awareness, media coverage, volunteer/community groups. * Equipment repair. * Mentors hip/guidance/advice. * Funding for paid time. * Collective voice - share the same correct info.
Brands for Canada	Product Life Extension	We receive donations of new and used clothing and reuse them to help those living in poverty. Also work with donations occasionally new personal care items and small household goods	1. Donate surplus goods given out to people living in poverty 2. Developing a massive social media and traditional communication network that will inform, educate and influence millions 3. Researching local textile recycling facilities	* Partnerships with City of TO waste management to deal with textile waste * Donated space for facility * Private/Government support to create a textile recycling facility locally! As a social purpose enterprise offering jobs and job training to marginalized job seekers
Canada Green Building Council	Smart Material Choices and Resources	National organization that works to advance green building and sustainable community development practices in Canada. License holder for the LEED green building rate system	1. Construction waste	* Closed loop system for construction waste (i.e.. Reusing waste for other purposes)
College Promenade BIA	Smart Material Choices and Resources	Organization promoting local businesses from Shaw to Havelock Streets	1. Possible under-utilized space (empty store fronts?) - pop ups, community initiatives	* Public awareness and partnerships

Combined Metal Industries	N/A	Recycle ferrous and non ferrous metal through processing and commoditized scrap metals commercially and publicly streams. In an impact free way to the environment	Have a large network or channels to recycle materials in an environmentally responsible way. Our footprint spans North America	* Partnership/public awareness
Creative Reuse Toronto/Sewing for Change	Waste As A Resource	A group of community members that work to start creative reuse centre where materials and products can be donated, purchased and exhibited to order to reduce the amount of materials going into the waste stream	1. Creative services sewing/textiles - teaching, making using many textile techniques in making yarn from scrap/ waste textiles 2. Sewing for Change is Phase I of setting up a Creative Reuse Centre	* Accessible neighbourhood, space, funding - a complex that includes others working at the community level with related focus (i.e.. Repair Café). * More connection/net working with manufactures * Creative Reuse Toronto needs a centre/facility in which to spur creative thinking about reuse, educate and build on under utilized * Need more equipment/materials such as deadstock - or need partnership, sponsors, resources, materials, space (storage space) * Access to a vehicle to pick up materials

Diabetes Canada - National Diabetes Trust	Product Life Extension	Diabetes Canada is Canada's largest collector of used textiles and small household items. We collect and divert over 100 million pounds of used clothing from Canadian landfill sites	1. Textile reuse/collection, municipal textile diversion programs 2. Research - YorkU - Canada's first national textile diversion study 3. Retail council - committee member 4. Textile lab - ON	* Investment in infrastructure to "recycle"/reuse/repurpose the 1-5% of unusable textiles that go to landfill 1. More partnerships with municipalities (Pilots) to support our research study 2. Education of the public about reuse and textile waste and what can be donated/reused/diverted - see waste as resource 3. Innovation 4. Social impact not money is a main component of the procurement process. However, municipalities by law to not need to do RFP if working with 100% charitable organizations
Dillion Consulting	Product Life Extension/Waste As A Resource/Product As A Service	Dillion Consulting offers clients information on how to provide support for local innovators and/or organizations that design for the environment and/or reduce, reuse and reclaim waste	1. Offer services helping to guide partnerships with local groups and municipalities	* Data technology - a large database showing effects, savings, impacts of CE, information on groups that could replay info * How to form these partnerships - we often provide recommendations that municipalities support local groups, but it would be beneficial to provide more information on how to approach and provide support

Emterra Environmental	Waste As A Resource	Emterra utilizes an integrated collection and processing infrastructure and end market development expertise to deliver end-of-life materials management services to governments, manufacturers, retailers, and brand owners.	1. Collection, consolidation and material processing services - traditional recyclables, used tins, surplus packaged goods 2. We provide link between end of use and who can be use that material/ resource	* Regional networking - to consolidate materials and lower transportation costs (economic scale) * Awareness/Training - level setting on material flow and economics of end of use handling
Encircled	Design	Encircled designs clothing with the idea of doing more with less. We use all naturally derived sustainable fabrics, and collect all excess fabric cuttings from our production process and upcycle larger pieces into accessories, and responsibly recycle others. We're proudly 100% Sewn in Toronto, Canada	Excess fabric centre end of a roll fabric (leftover pieces not big enough for production) and lots of fabric scraps that aren't big enough for usage in a garment/accessory (primary fabric model, bamboo/cotton/tencel)	* Design, repair, recycle take back logistics * Public awareness about the negative impact of two fast fashion industry on the city's waste system - smart material choices (local) * Why made in Canada (Toronto) matters - city led campaign to support not just "Canadian" designs but designers who are making goods IN Toronto - there's a difference * Tech grants/employment/equipment grants - so much cool innovations in fashion related to more efficient production but we cant afford any and zero government support - we cant even get a summer job grant

Ethos Assets	Product Life Extension + Waste As A Resource	Ethos Assets is a social purpose resource development initiative that creates resource solutions that support the needs of different community groups through the proper management of still useful products, materials and equipment that unnecessarily end up in land fill. Our work helps divert waste of both New + Gently Used products, materials, and equipment into sources for social good initiatives and related programs.	1. Repurpose surplus, materials, products and equipment to redistribute or recalculate host value (generating funding) 2. Product and material evaluations, surplus goods or related services 3. Have ideal time, have data 4. Manage products + materials also for charitable good	* Partnerships, Resources, Space
Food Systems Lab	Waste As A Resource	Food Systems Lab works with multi-sectoral actors to design and advocate for a healthy and sustainable circular food system where all are fed and nothing goes to waste	Connections with cross-sectoral innovators in relation to food waste (community scale composting, business innovations - waste to value added materials, some expertise in policy and behaviour change)	* Support (financial & knowledge sharing) for small/medium innovators (business and NFP) * Policy changes to support/incentivize/force this shift
Free Geek Toronto	Product Life Extension	Free Geek Toronto is a social purpose enterprise. We allow community members to purchase affordable, reliable, low-cost computers that let people engage in the modern digital economy and life. Items that aren't reusable are properly recycled.	1. Ability reuse/refurbish electronics primarily consume electronics 2. Alternatives software option for computers to extend life cycle	* Partnerships with businesses, community organizations, and the city to deal with end of life electronics (resource) * Public awareness around computers and re-use and extension, especially around product extension using Free and Open Source Software * Better logistics to material to those in need of our services

Furniture Bank	Product Life Extension	Furniture Bank is a charity and social enterprise that transfers gently used furniture and household goods donated by individual and corporations, to people in need of a fresh start	1. Furniture/House Wares removal and delivery service 2. Moving unwanted furniture - part of solution to housing affordability crisis	* Awareness * Space - bigger furniture recycling/more re-use
Green Standards	Product Life Extension	Green Standards is a specialized environmental firm that works with corporations and other large organizations to responsibly redistributed no-longer needed surplus office furniture, equipment and supplies	We offer an alternative to liquidation and landfill. By keeping items in use with local non-profits we can virtually eliminate the landfill from the project. Working with corporate clients to divert their office furniture equipment	* Partnership with Corporate Real Estate and Property Managers. PR and awareness for our organization and cause. Data on the issue of "office" waste in Canada. How much yearly?
Independent Environmental Consultant	Waste As A Resource	N/A	Consultation services and idle time for discussing on strategy to address circular economy.	* Data and Resources
Institute for a Resource Based Economy	Product Life Extension	IRBE owns and operates Toronto Tool Library and the Sharing Depot, as well as the Tool Library Makerspace. These are neighbourhood-based borrowing services include items ranging from construction and home renovation equipment, to board games, camping etc.	1. Surplus goods, under utilized equipment 2. Community + good will	* Space, funding, policy, and zoning * Research capacity into impact - what is the environmental impact of our work? Social impact? * More repair capacity

Leslieville Business Improvement Area	N/A	N/A	Lots of production waste, lots of food waste, lots of packing waste	* Public awareness could definitely help us become more circular. To spread public awareness, tools that would really help this goal would be resources such as money and better technology.
Maizal	Waste As A Resource	We are a Mexican restaurant/tortilleria that diverts all of our food waste to the farm co-operative which we are a member of, and make rich organic compost with it	We turn food waste (from our small restaurant) and coffee grounds (from a neighbour café) and turn it into compost	* We are quite circular. Instead we are looking at how to broaden and extend this to other food businesses and organization across the city. So, we are in search of resources and we also realize the importance of public awareness and education
Minus	Waste As A Resource	N/A	Minus offers 'smart waste' services. Cleaner + more efficient ways to get rid of an organizations waste. We are interested in learning more about textile waste, and what are the recycling/repurposing opportunities	* We operate in the smart waste sector, we believe technology holds that key to a solution. Microbiological, robotics, pneumatics, AI, and hyperlocal technologies are the pillars that our ecosystem is founded on

Not Far From The Tree	Waste As A Resource + Product Life Extension + Product As A Service	Not Far From The Tree is Toronto's very own fruit tree project, inspiring Torontonians to harvest, share, celebrate, and steward the bounty from our urban forest as a way to connect more intimately with sound environmental way of life	1. Food (fruit) waste, as a resource; also a surplus good 2. Unused or under utilized data: fruit tree registry, volunteer database (more volunteers than fruit pick "events" we can currently do, due to limitations in staff, funding, resources 3. Expertise in fruit trees, urban tree health -ecology, care and maintenance, safety in picking, cooking/canning/ preserving	* More partnerships to access public land (City of Toronto) for storage of fruit picking equipment, access to harvest/rescue from urban fruit trees and funding * To support growth to more wards,storage spaces, outreach at events, and to recruit and train more volunteers * Support to gather data on GHG emissions saved/prevented from fruit rescue + combine our fruit tree registry with city data * Means/tools/partners to get the word out about the work that we do, our events, and our volunteer opportunities
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Recycling Council of Ontario	Waste As A Resource	Recycling Council of Ontario (RCO) is a not-for-profit membership-based organization involved in policy, education and project work around the issues of consumption, waste generation, reduction and diversion, and recycling.	1. Extensive background/knowledge of waste reduction/management to support transition to CE	<ul style="list-style-type: none">* Partnerships is essential to support the transition to and implementation of CE. Education and resources are also important to foster understanding and figure out the way forward.* Demonstrate the economic value of circularity/circular business models and the resulting social and environmental benefits - will foster better understanding and uptake of CE - pilots and resources are KEY
Repair Café Toronto	Product Life Extension	The Repair Café aims for changing the throwaway mindset of our society. Through the free community repair events and workshops we organized, our volunteer fixers and visitors learn about the reparability of household products	Repair Café Toronto encourage everyone to reduce waste through repair. We offer free community wants that brings people together to help each other. We have volunteer fixers working with visitors to repair their broken households items and help them learn how to do the repair themselves	<ul style="list-style-type: none">* Partnership, public awareness* We help serious groups to start their own repair café. They share our own experiences* Support for our group (100% volunteers) as demand is growing more and more for our service* Funding of space

Resource Productivity and Recovery Authority	Waste As A Resource	Our primary responsibility is to enforce the requirements for producers to be responsible and accountable for their products and packaging at the end of their life cycle	1. Information resource on transition activities under Waste Free Ontario Ad 2. Consultation process to evaluate stakeholders to input on design issues for transition to EPR - e.g. windup and IFO's, clamps for Blue Box program 3. Infuses, our online registering will be a data clearing house to provide public access to data on resource recovery	* Partnerships; inter-organization retreats to foster information sharing and collaboration
Restaurants Canada	Smart Material Choices and Resources	Restaurants Canada is a national, not-for-profit association representing Canada's diverse and dynamic restaurant and foodservice industry	1. Food Waste, Packaging	* Technology resources
Saponetti Inc.	Product As A Service	Saponetti is a refill service for household cleaning and personal care products. We're in business to help households and businesses zero-waste everyday consumables by refilling existing containers and skipping the bluebin waste altogether	1. We consider ourselves a 'solution-based' business 2. Zero-waste options for household cleaning and personal care products	* Partnerships with city, CE groups, like minded businesses * Public awareness/education * Improvements in supply chain

Scout Environmental Inc.	Waste As A Resource	Scout is a not-for-profit organization dedicated to developing and implementing product stewardship, retail sustainability, and public engagement programs	Develop programs with clients/partners that educate, engage and achieve goals	* Partnering with other organizations and companies
Second Hand Sunday	Product Life Extension	Chance to share reusable, unwanted items and to get in on the action! Two times of year, last Sunday of September and April	1. Goods sharing; charitable element, community building	1. Public awareness - helping us to get the word out 2. Partnerships to have charitable organizations connected to donations 3. Resources to run the program
Second Harvest	Product Life Extension	Second Harvest works across the supply chain from farmer to retail to capture surplus food before it ends up in the landfill and negatively impacts our environment.	1. Reducing food waste 2. Education - partnered with Toronto Public Health 3. Research - currently working on where food waste is happening in Canada	* Of the limited waste we have (ex: produce gone bad) if there was somewhere to give it to convert to energy/resources (we do not produce enough for an aerobic digester and don't get city pick-up) * Partnerships. It can be difficult to make connections with food businesses - a lot are private

SKMC/Dream Zero	Consulting and Design/Product As Service	Help companies/facilities eliminate waste through tracking and solutions/Rent cups for events eliminating single use cups	1. I help companies earn TRUE Zero Waste and B Corp certification, sustainability reporting 2. Rent reusable cups/ rent reusable take out containers	* Data base of services that we can be linked on * Amend city health code to accommodate reusable food containers in policies/promote procedures/clear food retailers of liability
TerraCycle Canada	Waste As A Resource	TerraCycle provides recycling solutions for otherwise non-recyclable waste, which allow used products and packaging to be reused, upcycled (used for different purpose) and/or recycled	A service to recycle production and consumer waste	* Partnerships with businesses, schools, non-profits, cities, governments and individuals. Public awareness that there are recycling solutions available and on the importance of waste reduction and management. * It would be helpful for the city to leverage TerraCycles recycling solutions and inform the public by incorporating into the waste wizards, by participating in our recycling programs. * Facilitating events like today is very helpful in connecting organizations

The Delphi Groups	Product As A Service	Climate change and sustainability consulting firm with a specialization in circular economy strategy and development	1. Service to help identify opportunities and help build a circular economy strategy 2. Partnership opportunities to connect solution providers with organization looking to solve a problem	* Infrastructure, education, engagement, ease of service * Policy for addition of new materials * Procurement
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The Spent Goods Company	Waste As A Resource	Spent Goods take industrial food waste and transforms it into value	<div>1. Production waste</div> <div>2. Taking leftover resources and transforming into value (e.g. brewery grains (barely) into bread) - can feed people, employment as bakers, transportation to local business who buy bread, releave stream by selling bread</div>	<div>* Partnerships, public awareness, resources, data, technology</div> <div>1. Funding for SMES - to be able to pilot concepts involving local businesses</div> <div>2. Build community awareness - spent grains aren't waste. It still food but businesses have no financial incentives. Food waste boom land fill help incent businesses to change their behaviour, consider now revenue streams (Fall under "waste is a resource" concept)</div> <div>3. Collection service specific to food separate from waste collection - could be used on local food pick up, amazon orders, textile donations)</div> <div>4. Organize local aggregable spots in the city - Breweries dispose their grains locally and then picked up by larger turn out to forum - P.T.O.</div> <div>5. Encourage collaboration amongst local businesses (Brewery - Baker - Bread - Sell) vs. Waste</div>
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Toronto and Region Conservation Authority	Product Life Extension	Working with municipalities and other partners to look after the watersheds of the Toronto region and its Lake Ontario waterfront, we help people understand, enjoy and look after the natural environment	Most common materials we see: 1. Organics (small volumes) 2. Uniforms 3. Plastic film	<ul style="list-style-type: none">* Case studies* Resources (incentives) to help businesses start* Training sessions (i.e. how to start an organics program)* Ad campaign to re-educate public - i.e. bring your left overs home!* Data - to fully understand the problem* Support - help walk businesses through the process* Circular Awards
Toronto Environmental Alliance	Waste As A Resource	Environmental non-profit organizations, advocacy for zero-waste and CE. Policies and programs in TO, ON, and Canada. Work with community groups, big politicians etc. to do research/education	1. Knowledge of zero waste/CE policy and programs locally and around the world 2. Ideas about CE policy connections and opps between organizations sectors and grassroots groups 3. Keen volunteers and 50,000 supporters who want to help/get involved	<ul style="list-style-type: none">* Our role is primarily to promote the CE* We can use resources (finances), partnerships (with groups) and data about TO CE activities, opportunities, policies, etc.

Toronto Industry Network	Waste As A Resource	The Toronto Industry Network (TIN) is a group of manufacturers and manufacturing associations with operations in the City of Toronto	1. Production waste, packaging, food waste 2. Challenge is to match up those who have surplus/waste with those who can use it in an economic way/cost effective	* Partnerships, resources, technology, (better use of these), energy, materials (energy from waste with these)
United in Change	Product As Service + Implement Sustainable Business Model	We connect business, brands and community organizations to a live sustainable market place - where sustainable actions drive sustainable commerce.	1. We connect business, brands, and community organizations to a sustainable marketplace - where every transaction gives back to community and builds your business at the same time	* The creation of an "organization" for all - by all key sectors of our community where "experts" (those active in the sustainable marketplace) work together to implement this. E.g. A Clothing Recycling Plant - run by community for community

Waste Connections of Canada	Waste As A Resource	Waste Connections Canada is a full-service, vertically integrated waste management company, providing non hazardous solid waste collection, recycling and landfill disposal services	We are fully integrated waste services company ranging from collection to transportation to processing, final disposal and production of RNG (renewable natural gas) the RNG we produce is used to power our Fleet of CNG vehicles (compressed natural gas)	* Contained education and adaption of best practices advanced technologies
Wastenot Farms Inc.	Waste As A Resource	Wastenot Farms diverts food waste from Toronto business offices, and feeds that food waste to our worms, where they down the food waste into a re-usable soil amendment product	Food waste service of food waste diversion good of soil amendment product	* Partnerships - distributors, packaging, labeling, education (standardization for diversion expectation) * Public awareness - waste has value (proper disposal practices to diversion and reduce contamination) * Resources - technological/industrial equipment (rental/sharing vs. buying) * Space - shared space for industrial warehouse area

West Hill United Church	Product as Service	N/A	1. Idle Time 2. Under utilized space 3. Under utilized equipment * We have a church largely unused in the Kingston Rd and Morningside area of Toronto/ Scarborough	* Partnerships/Space * We are looking to better utilize our space, offer better programs and services, be better integrated into the community, utilize our own micro community
Windfall Ecology Centre	Product Life Extension	N/A	Spread public awareness to our membership base	* Partnerships * Resources to distribute to members (help with procurement) * Case study/data to back up benefits of circular economy