



**Partners in
Project Green**

A Program of Toronto and Region Conservation Authority

Circular Economy Leaders Consortium

CEC Celebration, Tour & Networking Event,
March 7, 2023

We respectfully acknowledge that we are situated on the Traditional Territories and Treaty Lands, in particular those of the Mississauga Nation, as well as the Anishinaabe of the Williams Treaty First Nations, the Huron Wendat, and the Haudenosaunee.

As stewards of land and water resources within the Greater Toronto Region, Toronto and Region Conservation Authority appreciates and respects the history and diversity of the land and is grateful to have the opportunity to work and meet on this territory.



Agenda

Time	Item
2:30 PM	Welcome & CEC Overview
2:37 PM	Launching the CEC, TELUS
2:44 PM	Branded Materials Transition Project, Toronto Metropolitan University
2:52-3:15 PM	Member Highlights
3:20 PM	Facility Tour
4:00 PM	Travel Back to Admin Building
4:10 PM	Development of a Zero Waste Roadmap, Greater Toronto Airports Authority
4:25 PM	Closing Remarks
4:30-6:30 PM	Networking Event



CEC First Year Achievements



12
members



228 learner
hours



84% gained
knowledge



69%
collaborated



82% highly rated



92% continue
to participate

Chaya Chengappa, Program Manager, Water Stewardship at chaya.chengappa@trca.ca

Darlene Coyle, Coordinator, Water Stewardship at darlene.coyle@trca.ca





TELUS Communications

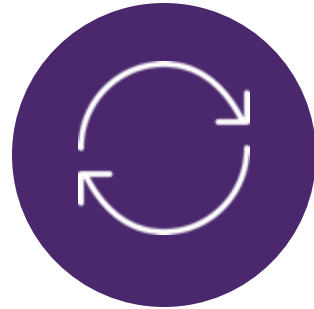
Emma Wosik



Launching the CEC



**Leadership and
Collaboration**



**Knowledge
Sharing**



Education



**Collective
Projects**

Create a focus on collaboration and information sharing between sustainability professionals.

Key Learnings from 2022



2022 Waste Reduction and Diversion

Diversion Rates

70% waste diversion

Real Estate: **60%** waste diversion rate, **9% increase** from 2021

- Waste and recycling, fleet, furniture, shredding

Additional waste materials: **96%** waste diversion

- Pallet reuse, network equipment, mobile devices (Earth month & CE month)

Superfy Bin Sensors

- Installed 26 fill-level sensors in garbage and cardboard bins
- Installed at 13 sites in Quebec: Montreal, Sainte-Marie, and Rimouski
- Full bin vs. actual percentage



Intuitive AI: Oscar Sort

- Installed 8 Oscar Sort sensors across four TELUS offices
- Toronto, Vancouver, Calgary, Quebec
- Nudges team members towards correctly sorting their waste through visuals and sound prompts



Looking into 2023...



Waste Diversion

- Expand waste & recycling services across 35 TELUS buildings
- Implement bin right-sizing at ~14 sites
- Meet legislation requirements
- Meet publicly stated diversion targets



Superfy Bin Sensors

- Install new bin sensors with cameras
- Gain 6 months of data insight from camera sensors
- Gain insight into bin contamination, weight densities, fill levels, and more
- Expand to the west in BC



Wireless Accessory Take-Back Program

- Implementing program with Eco-Train at TELUS retail and Mobile Klinik stores
- Phone cases, chargers, earbuds, headphones, etc.
- Upcycle plastics into new materials such as building blocks



Toronto Metropolitan University

Gina Vaccaro & Narish Maraj



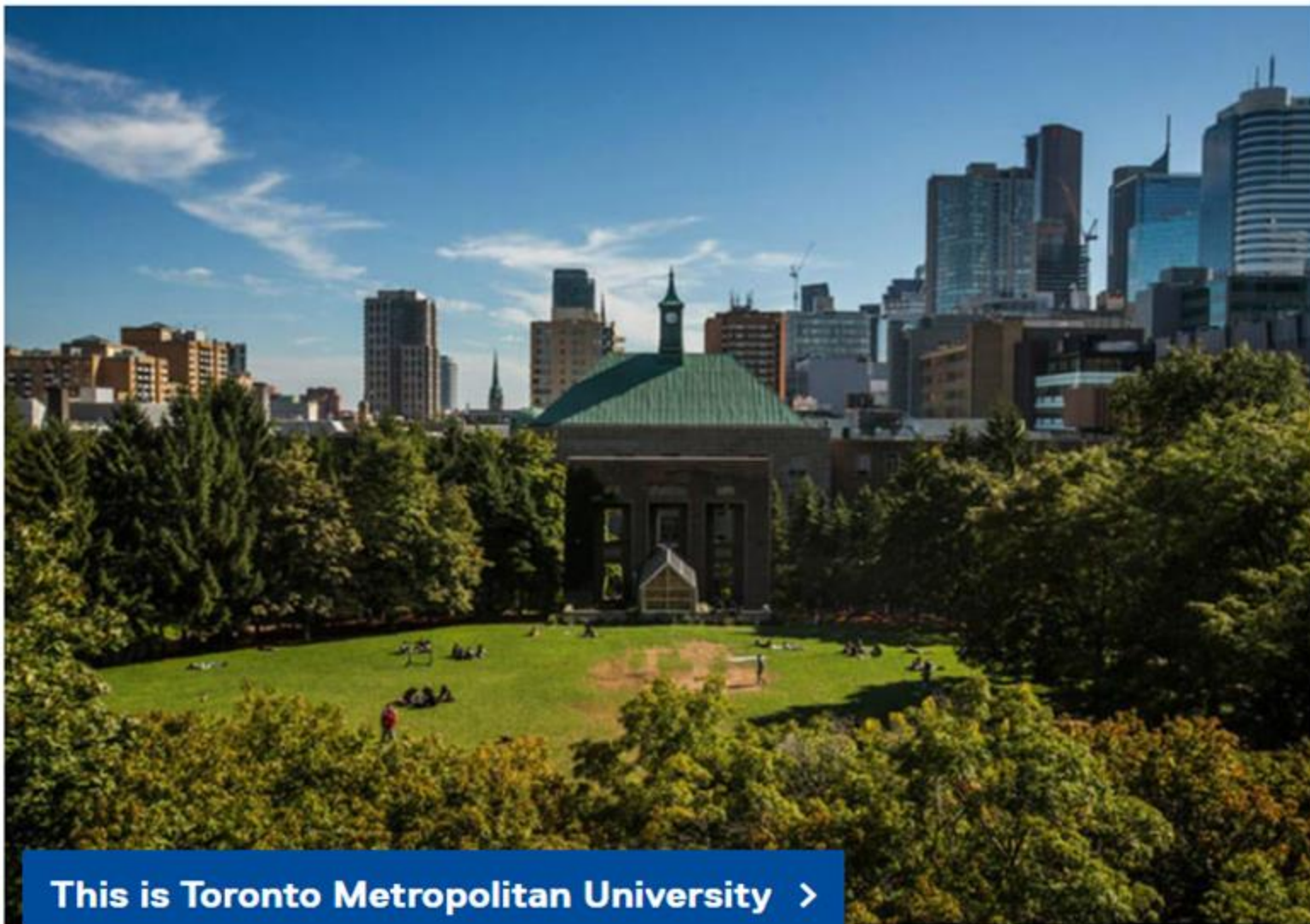
The Branded Materials Transition Project (BMTP)

**Toronto Metropolitan
University**



**Athletics
& Recreation**





This is Toronto Metropolitan University >

Toronto Metropolitan University is at the intersection of mind and action. What our students learn in the classroom is enhanced by real-world knowledge and experience. We champion diversity, entrepreneurship and innovation.

Quick Facts

over **48,000** students



125+ undergraduate and graduate programs



176 partner institutions in 49 countries



25 Canada Research Chairs



1,200 faculty members and adjunct professors

TMU Renaming Timeline

Mash Koh Wee Kah Pooh Win (Standing Strong) Task Force established

Understanding Egerton Ryerson's life and legacy and the role of commemoration in our community.

Task Force recommendations announced and accepted

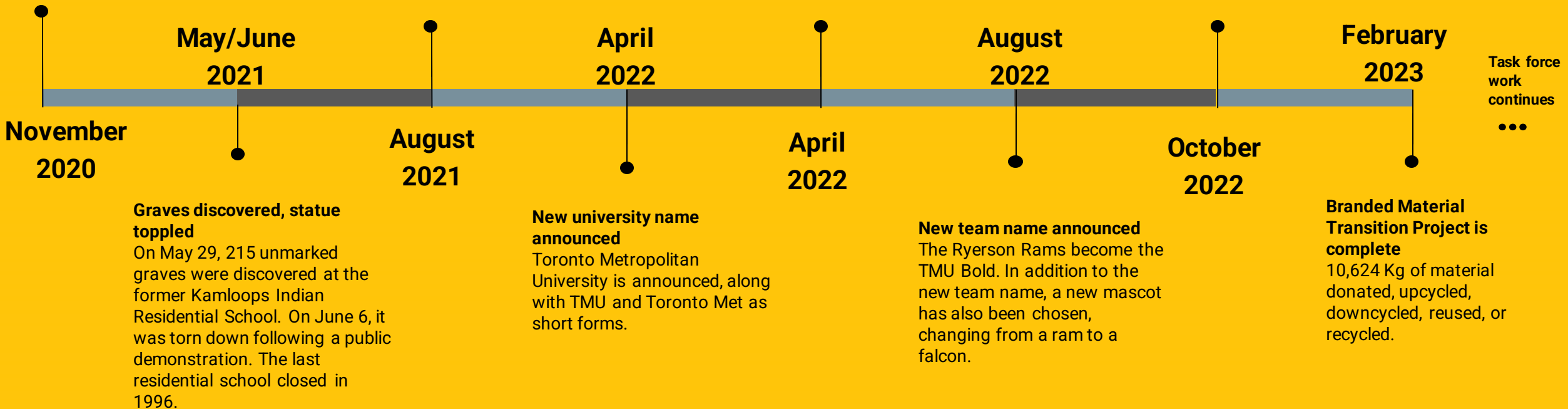
All 22 were accepted by President Lachemi, including renaming of the university, sport teams and mascot

Branded Material Transition Project announced

Project launches with the goal to sustainably transition all branded materials affected by the name change.

TMU Bold Logo is launched

Logo makes subtle nods to lines on a field of play and the team mascot, a falcon.



TORONTO METROPOLITAN UNIVERSITY



The Branded Materials Transition Project (BMTP)

Gina Vaccaro - **Manager of Finance & Strategic Operations, Athletics and Recreation**

Narishdath Maraj - **Strategic Operations Project Administrator, Athletics and Recreation**

Simple Goal:

Sustainably transition all items affected by the institution name change.

Specifically - Reuse, upcycle, downcycle, or recycle all Ryerson or RAMS branded items.

Complex considerations:

- 220 areas/units on campus to address
- Unknown quantity of material
- Large (& unknown) number of item types
- Multiple waste streams: Wood & Paper, Metal, Plastic, Textile, Ceramic & Glass, Composite Materials, etc.
- Limited on-campus waste disposal and recycling resources
- The process itself should do as little environmental damage as possible.

Project Complete: April 2022 - February 2023

Total volume collected and diverted - 10,634 kg

- Apparel - 2483 kg
- Rams Uniforms - 885 kg
- Merchandise and Swag - 4516 kg
- Paper Products - 2750 kg



Collection Information:

- **Approximately 320 non-apparel, non-paper items were collected, these included items made of fabric, paper, metal, wood, glass, ceramic, plastic, vinyl, and many other synthetic materials. Totaling approximately 4,516 kilograms of material.**
- **Approximately 640 apparel items were collected, totaling approximately 2,483 kilograms of material. 258 Individual types of t-shirts accounted for 40.4% of apparel collected, totaling approximately 1,312 kilograms.**
- **Approximately 2,290 retired uniforms were collected, totaling 885 kilograms.**
- **Approximately 2750 kilograms of paper items were collected.**
- **A total of over 10,634 kilograms of material was collected.**

Transition Strategies

Reuse

1. Removing and Covering Branding

Acetone-based nail polish remover worked to cleanly remove the branding on certain items such as, plastic water bottles, metal to-go cups, plastic locks, and other items.

Paint and nail polish was used to cover the “Ryerson” logo on a number of items types such as plastic water bottles, USB drives, Screen printed t-shirts, and tote bags.

In many cases the “Ryerson” logo was removed, leaving behind the departmental name, allowing these items to be returned to their original department for reuse as it was originally intended.



Transition Strategies Cont'd

Reuse

2. Donation/Redistribution

Apparel donations:

The School of Fashion

TMU, The Fashion Zone

TMU, The Theatre at the School of Perf. Homeless Connects Toronto

Yonge Street Mission

Lincoln M Alexander Secondary School Clothing Drive

Scadding Court - The Sewing Hub

Merchandise and Swag (Pens, Bags, Notebooks, Binders, etc.) donations:

The School of Architectural Science

The School of Fashion

The Theatre at the School of Performance

TMU Free Store

Scadding Court - The Sewing Hub

National Angel Capital Organization

Bishop Macdonell Elementary School

Kidnasium

Yonge Street Mission

Homeless Connects Toronto

Lincoln M Alexander Secondary School The Design Fabrication Zone

Rural Ethiopian Primary School

Transition Strategies Cont'd

Reuse

3. Dismantling for component parts

Over 20,000 Lanyards were dismantled, with the Metal clips returned to the vendors for reuse, the Plastic clips incorporated in our Material Exchange events, and the Printed Ribbons kept by the School of Fashion for reuse.

Buttons and pins were dismantled to separate the metal from the print vinyl overlay. The metal buttons snap back together for easy reuse.

4. Design Fabrication Zone- Stuff Swap Event

A pop-up shop concept where artist, designers and other creatives can swap materials such as fabric, wood, frames, and other materials from the BMTP



Transition Strategies Cont'd

Reuse

5. Jersey/Uniform Sale

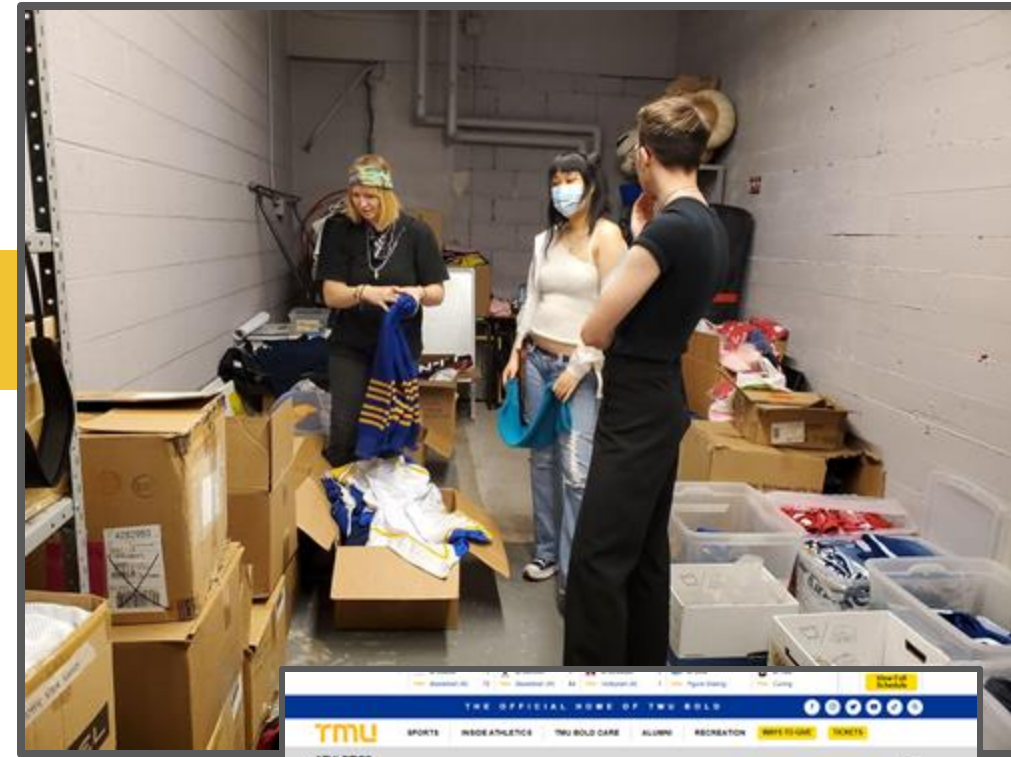
- Alumni student-athletes were offered the chance to purchase their former jersey as a keepsake.
- 75 Jerseys were purchased by alumni
- All proceeds from the sale have gone to the Equity and Inclusion Award.



Transition Strategies Cont'd

Upcycle/Repurpose

1. **Upcycled Gear Fashion Show - Celebrating the transformation from the Rams to the Bold**
 - 20 Student Alumni Designers...
 - Upcycled runway pieces, from BMTP materials...
 - On auction with proceeds to a newly created **TMU Equity and Inclusion Award...**





The Upcycled Gear Fashion Show

Transition Strategies Cont'd

Recycle

1. Recycling/ Reuse Partners

Waste Reduction Group

Norwich Plastics

eCycle Solutions

Nimlok

Souvenir Canada

The Design Fabrication Zone

TMU, The Fashion Zone



Transition Details on total volume of 10,634 kg:

- **Apparel volume collected- 2483 kg**

- Volume donated- 1130 kg
- Volume kept internally for workshops and future projects- 1312 kg
- Volume Patched (Registrar's Office)- 55 kg

- **Rams Uniforms collected- 885 kg**

- Volume used in the fashion show- 100 kg
- Volume Sold- 93 kg
- Volume kept internally for workshops and future projects- 692 Kg

- **Merchandise and Swag collected-4516 kg**

- Volume Donated- 820 kg
- Volume of component parts donated to DFZ material exchange drive- 362 kg
- Volume Returned to the original department, Archived or kept internally for workshops and future projects- 860 kg
- Volume diverted to the Campus Free Store- 662 kg
- Volume Recycled- 1817 kg

- **Paper products collected- 2750 kg**

- Volume recycled- 2700 kg
- Volume reused internally- 50 kg



Thank You

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Longo's
Zachary Morgan & Sara Olivieri

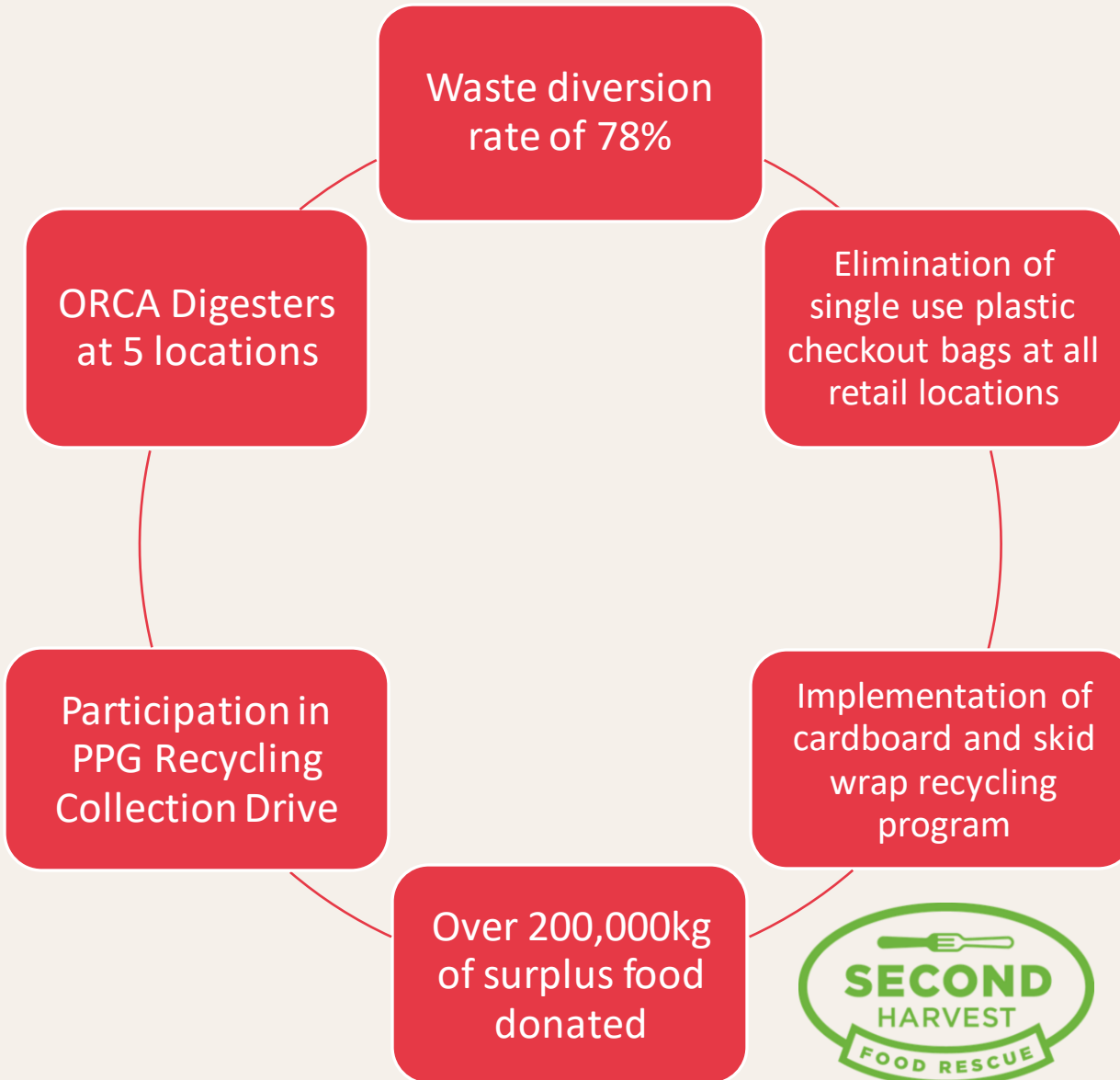


waste reduction & diversion Highlights at Longo's


68.58 tonnes
of food waste recycled


44.58 tonne
reduction in methane


60.35 tonne
reduction in CO₂e

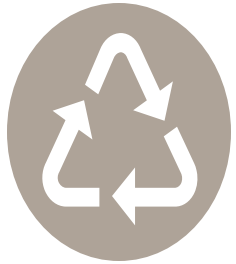




Seneca College
Courtney Hayes

Seneca

Waste Management Approach



Programs | Food Service

1

Single Use Plastic Bottle “Ban”

- *Assessed water filling station accessibility*
- *Stopped purchasing new water bottles*
- *Switched to aluminum cans for pop*
- *Monitoring for sports drinks*
- *Effective communication*

2

Oscar Sorting System

3

“The Rocket” Composter

Coming Up....

Friendlier reusable container program
at Newnham Campus in April 2023

Terracycle Coffee Cup Recycling



Programs

1 ITS Printer Reduction Initiative

2 Centralized Purchasing

3 Reuse Coordination

Coming Up...

Move out waste reduction procedure and reuse channel

Mushroom Growing Medium
Textile Processing Machine





Sheridan College
Caroline Holmes

Sheridan

Sheridan College

2022 Waste Reduction/Diversion Highlights



Launched Mission Zero Freeuse Pop Up Shop

Launched in Fall 2022, the initiative aims to extend the life of useful goods and promote a culture of reuse and waste reduction on campus and beyond. To date, we've collected 4,000 lbs (1,800 kg) of donations, hosted 24 pop up shopping events, and engaged with over 3,200 shoppers and 1,400 visitors for total of over 4,600 engagements.

Sheridan Repair Café Relaunch

After a 2.5 year pause, an in-person Repair Café was held at Davis Campus in Brampton on Nov. 29, 2022, with 10 volunteer "fixers" and 50 registered community member participants. This was the 26th Repair Café event Sheridan has hosted since 2014, aiming to reduce volume of waste to landfill and change society's "throw away" mindset.



Sheridan College

2023 Waste Reduction/Diversion Plans



Sheridan
mission zero

- Create and recruit for net new Zero Waste Coordinator position
- Develop the Zero Waste Sheridan plan, which will include targets related to:
 - Reducing waste to landfill
 - Increasing reuse in the school and in the community
 - Increasing waste diversion rate
 - Separating and processing organic waste on-site
 - Reducing paper usage
- Continue expansion of reuse initiatives (Freeuse Pop Up Shop, Repair Café, etc.)
- Continue learnings and collaboration via PPG's Circular Economy Leaders Consortium



Wilfrid Laurier University

Eric Meliton & Dan McGregor

2022 Highlights: Waste



- Q2/3:** • Staff Tours of Seneca College, Green for Life, & Toronto Zoo
- Q3:** • Relaunch of the Freestore - offering free reusable household items for community members along with a repository for donations and e-waste
- Molok North America featured Laurier in a national video showcasing the positive impact of their bins on sustainability and waste management efforts
 - Installed STIL Solutions mats at two pilot locations to provide accessible and inclusive waste management tactile signage indicators
 - Move In program initiative: Zero cardboard pilot to encourage parents to bring home cardboard
- Q4:** • Hosted 10 Zero Waste Week events
- Completed first in-house waste audits of Brantford and Waterloo campus along with 2020 and 2021 Blue Box program submissions into Resource Productivity and Recovery Authority program with support received from Facilities and Asset Management, the Bookstore, and Printing Services

2023 Highlights: Waste



- Q1:**
- 900 lbs. of goods were diverted from landfill and repurposed by students through the Freestore during move in days. The Freestore exceeded the 2,000 lbs annual diversion target
 - Decommissioning 75% of non-Ricoh printers from Waterloo & Brantford campus in partnership with Laurier's Facilities and Asset Management, ICT, and Printing Services teams
 - Diverted 465 lbs. of chairs to the Wellington County Beekeepers Association
- Q2:**
- Partnership established with Goodwill Industries for Waterloo campus and a pilot launch of the program for Brantford campus to divert reusable waste from landfill





Woodbine

Kimberley Medeiros & Lucas Alpoim



WOODBINE™



2022

1

SINGLE USE PLASTIC REDUCTION

Established an internal committee that meets monthly to focus on the reduction of single use plastics throughout the organization, with a particular focus on hospitality and operations.

2

FOOD RESCUE

Became a member of Second Harvest's Food Rescue Program that redirects potential food waste. Since joining, Woodbine has donated more than 4,900 meals and diverted 21,000+ pounds of greenhouse gas emissions.

3

ENERGY REDUCTION

Participating in the Save on Energy Retrofit Program, we replaced the old lights in the Woodbine Mohawk Park parking lot with new LED lights, resulting in a 50% reduction of our kilowatt usage.

4

SUSTAINABILITY STRATEGY

A comprehensive sustainability and energy strategy for the Property Development Community Plan has been developed to reduce carbon production over time, including district energy, solar options, open spaces and innovative stormwater management.

5

TREE PLANTING

Woodbine has partnered up with TRCA and the City of Toronto to contribute to Toronto's Tree Canopy and have planted over 200 trees to date.



City of Mississauga

Vasya Jeyakanthan & Diane Gibson

City of Mississauga 2022 Metrics

Diverted Materials	Metric Tonnes
Bulbs	1.53
Shredded Paper	75.65
Scrap Metal	315.35
Mixed Recycling	232
Batteries	3.56
Food Waste	5.86
Books	6.16
Surplus Assets	6.83
Hazardous Waste	528.34
Plant Waste	10.64
Dog Waste	26.26
TOTAL	1,212

2023 Plans

Reduction of Single Use Items Policy



Repair Hub





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Thank you. Any questions?



**Partners in
Project Green**

A Program of Toronto and Region Conservation Authority

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