

CIRCULAR ECONOMY IN CANADA


Federal state

37.9 million inhabitants

10 provinces + 3 territories

Second largest country in the world where more than 90% of the population lives just next to the border with the USA

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KEY PLAYERS

- [Pan-Canadian Framework on Climate Change and Clean Growth](#)
- [Circular Economy Leadership Coalition](#) (CELC)
- [National Zero Waste Council](#): Main Canadian cities are members
- [C40 Group](#): Montreal, Toronto, Vancouver
- [Municipal Collaboration for Sustainable Procurement](#) (MCSP) - is a collaboration of Canadian municipalities to share best practices in sustainable public procurement (includes main cities in the provinces of BC, Ontario, Manitoba, Alberta, Saskatchewan, Nova Scotia, and Yukon).

CANADA



Circular Plastics Taskforce –

created in 2020 to encourage circular economy in plastics across Canada



PHASE 1 (Nov 2019 - Dec 2020): **Value Chain Mapping and Optimization Proposals**

PHASE 2 (Jan 2021): **Pilot Projects to Test and Monitor Optimization Scenarios**

This next phase of the project will implement and test best practices and equipment in a real-world environment with value chain players.

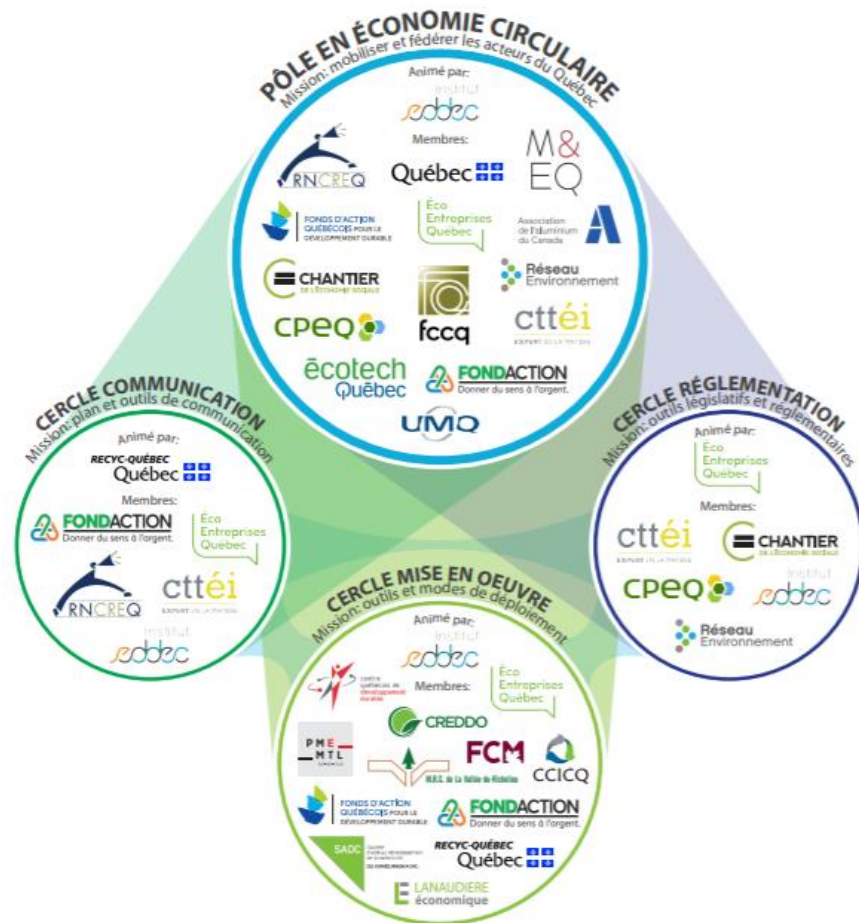
PHASE 3: Project Replication Outside of Québec

Build on roadmap obtained at the end of phases 1 and 2 and carry out a similar analysis in other markets in order to implement the most promising solutions.

QUEBEC

- Leader within Canada with regards to circular economy. Strong potential in circularity in the agri-food & energy sectors. The construction and metal production sectors should also be considered key due to the possibilities and advances that they could bring to the province.
- [Governmental Strategy of Sustainable Development 2015-2020](#)
- [Research Chair in Industrial Ecology and Territory](#):
 - Supports Québec businesses towards a circular economy
 - [Recueil de synergies](#): 25 projects (2015-2020) in Quebec
 - Grants for circular economy consultants to work in municipalities helping SMEs apply circular economy principals
- Montreal ranks sixth among cities with a Smart City government and is part of the [C40 Group](#), cities that are acting with strong measures against climate change
- New 30M\$ fund for Circular Economy Projects will be launched shortly by [Fondation](#)
- City of Montreal: Zero Waste by 2030 with its new Waste Management Master Plan (2020-2025)
 - ✓ Companies bidding will have to analyse their GhG emissions

QUEBEC



- [Québec Circulaire](#) is one of the flagship measures of the *Pôle québécois de concertation sur l'économie circulaire*, a voluntary group of leaders from various backgrounds, to accelerate the transition to the circular economy in Quebec. The platform's mission is to bring together the variety of initiatives, tools and expertise currently dispersed and which will multiply over the coming years.

EXAMPLES FROM QUEBEC



Waste to Energy Plant in Tarragona

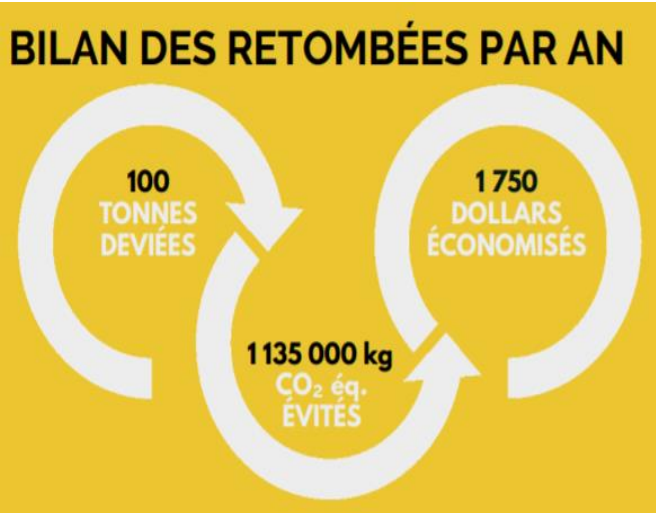
- 1 **TYPE**
Two production line facility
- 2 **CAPACITY**
Input: 400K metric tons of waste
Output: 270M litres per year
- 3 **FEEDSTOCK**
Non-recyclable waste from the municipal, industrial, commercial and institutional sectors
- 4 **PRODUCT**
Methanol



entosystem



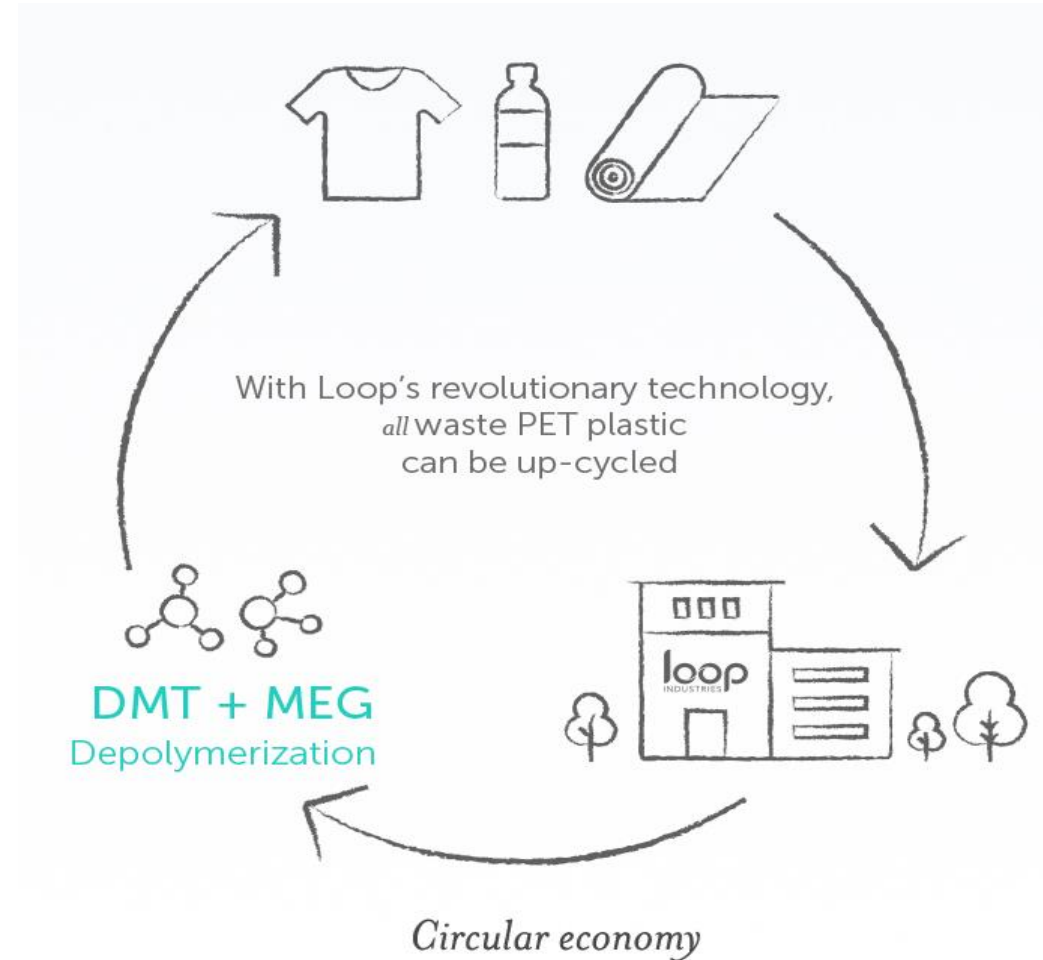
Production of insects for animal feed – larva are fed using agricultural waste from a malt producer



EXAMPLES FROM QUEBEC

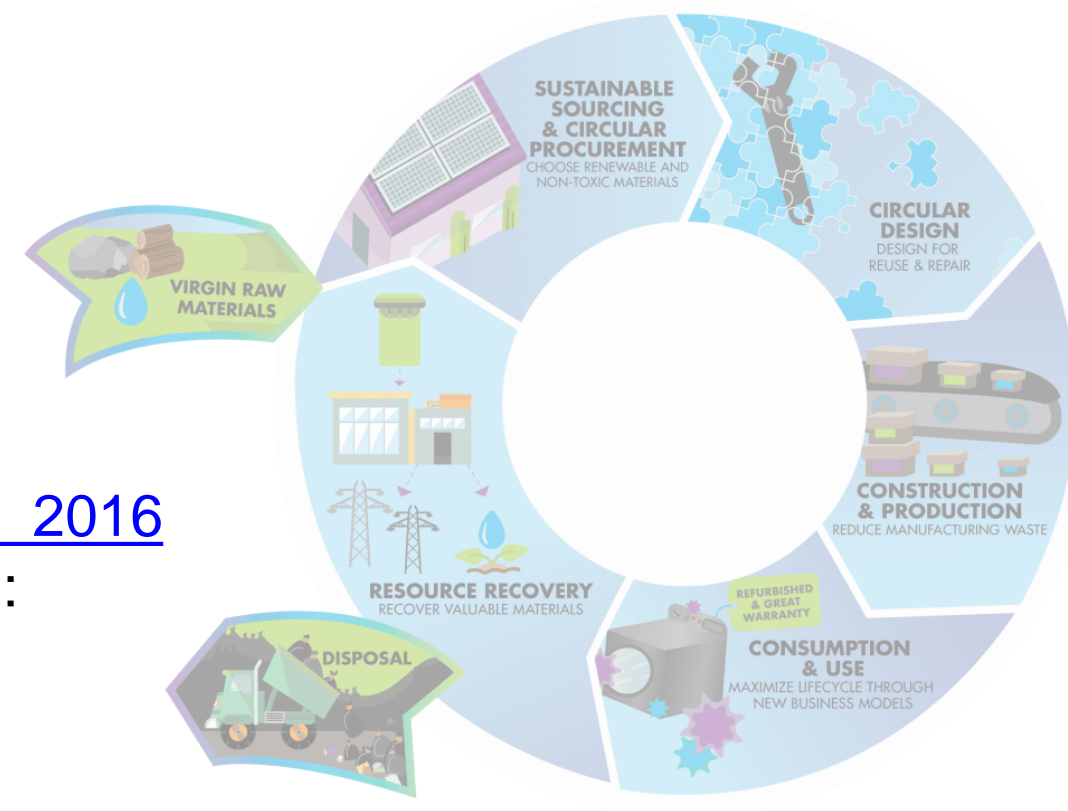


Infinite Loop Recycling Facility in Europe - Loop's patented and proprietary low-energy technology enables waste plastic to be recycled an infinite number of times, with no degradation in quality. Dedicated to PET plastic, the facility will be the largest in the world, with the potential to produce the equivalent of approximately 4.2 billion food grade beverage bottles, and it will be able to claim savings of 180,000 tonnes of CO2 annually, compared with virgin PET production.



ONTARIO

- [Strategy for a Waste-free Ontario \(2017\)](#)
- [Toronto](#): member of the [CE100](#) network
- Agri-food: sector with the most potential
- [Resource Recovery and Circular Economy Act, 2016 \(RRCEA\)](#) - Individual Producer Responsibility (IPR):
 1. January 2019: Tires
 2. July 2020: Batteries
 3. January 2021: Electronic products
 4. July 20121: Dangerous or special waste



EXAMPLES IN ONTARIO



[The Tool Library's](#) members borrow tools in the same way they would borrow a library book. The Tool Library has over 3,000 tools available for loan including home repair, construction and renovation, gardening and landscaping, and bicycle repair tools. The tools range from simple screw drivers and drills, to table saws, welding equipment, power generators. Four 3-D printers and a laser cutter are available for use onsite.



Toronto Public Library - [Borrow a musical instrument](#)

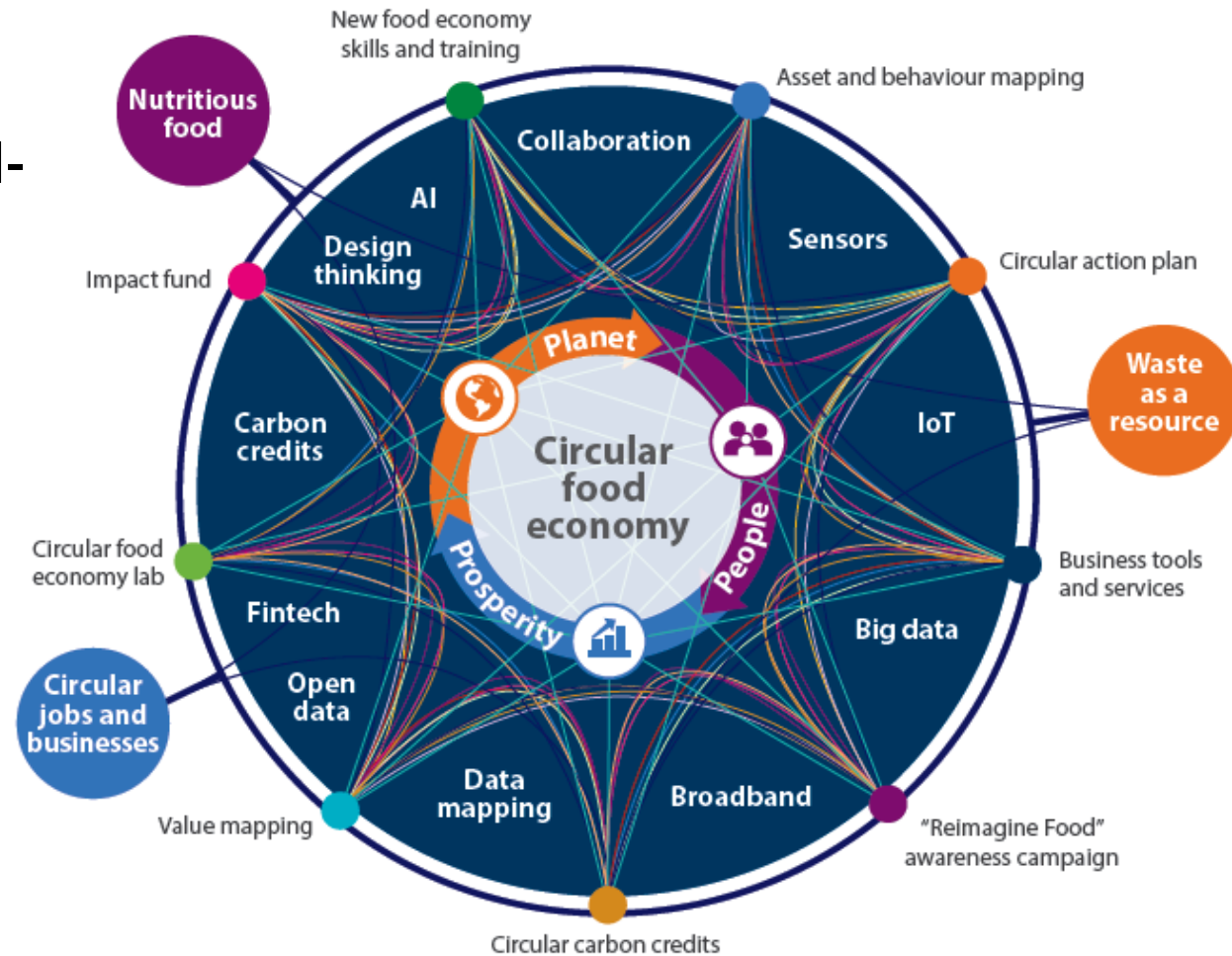
3 weeks plus 2 renewals for a total of 9 weeks

CANADA'S 1ST CIRCULAR FOOD ECONOMY - GUELPH

Guelph-Wellington is working to become Canada's first technology-enabled Circular Food Economy, reimagining an inclusive food-secure ecosystem that:

- increases access to affordable, nutritious food by 50%, where “waste” becomes a resource
- 50 new circular businesses and collaborations are created
- and circular economic revenues are increased by 50%

- **9 initial projects**



BRITISH COLUMBIA

- BC - waste disposal limit / person to reduce impact on land and the maritime environment, creating a recycling hierarchy.
- Vancouver, [Zero Waste by 2040](#)
- [Sustainable Food Alliance of BC](#) has designed circular structures applied to the food systems of the province.
- Vancouver: member of the [CE100](#) network
- NISP® Canada (National Industrial Symbiosis Program) (Vancouver & Edmonton)



EXAMPLES IN BRITISH COLOMBIA



[Enterra](#) produces the highest quality insect ingredients for animal feed and pet food companies. [Enterra](#) is the first company in the world to develop a technology at a commercial scale that up-cycles fruits and vegetables to produce animal protein and oil. Many animals don't eat fruit and vegetables but readily eat insect larvae – Enterra has pioneered a means to domesticate insect production to grow feed ingredients.



[Nico Spacecraft](#) designs and builds furniture for the residential market using PureBond®, a urea formaldehyde-free, moisture-resistant, cost-competitive plywood made by Columbia Forest Products. Its plywood is manufactured using an innovative adhesive inspired by the way mussels adhere to rocks. Through seeking out circular supplies for their small business, Nico Spacecraft has been able to successfully incorporate circular economy practices such as non-toxic materials, design for recycling and durability into their products.

EVENTS

- [Circular Procurement Summit \(Ontario\)](#)
- [Great Lakes Circular Economy Forum \(US-Ontario\)](#)
- [Movin'on World Summit \(QC\)](#)
- [Semaine de l'économie circulaire \(QC\)](#)
- [Waste Reduction Week Canada \(WRW\)](#)
- [WEAR: World Ethical Apparel Roundtable \(Toronto\)](#)
- [World Circular Economy Forum 2021 \(Toronto\)](#)
- [Zero Waste Conference \(ZWC\)](#)


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