



by



# District of Mackenzie

FoodCycler Program Expansion Results



# Food Cycle Science

- Team of ~50 employees, 20-person R&D team
- Globe & Mail **Canada's Top Growing Companies** ('21, '22, '23)
- Deloitte **Fast 50 CleanTech** award winners ('21, '22, '23)
- 185+ municipal partners** across North America are using FoodCycler programs to reduce wasted food at the source
- Launched the **Eco 5 and Eco 3** with industry-leading Vortech™ grinding system



reddot winner 2023



# Trusted Canadian Solution

175 Canadian  
Municipal  
Partners  
... and  
counting!





# Program Expansion Recap

A program expansion was run in the District of Mackenzie that included 50 participating households

Cost to the Municipality was \$5,000 + taxes and shipping.

## Program Details



Participating residents purchased a FoodCycler from the municipality at a subsidized cost



Usage was tracked for 12 weeks to calculate total waste diversion.



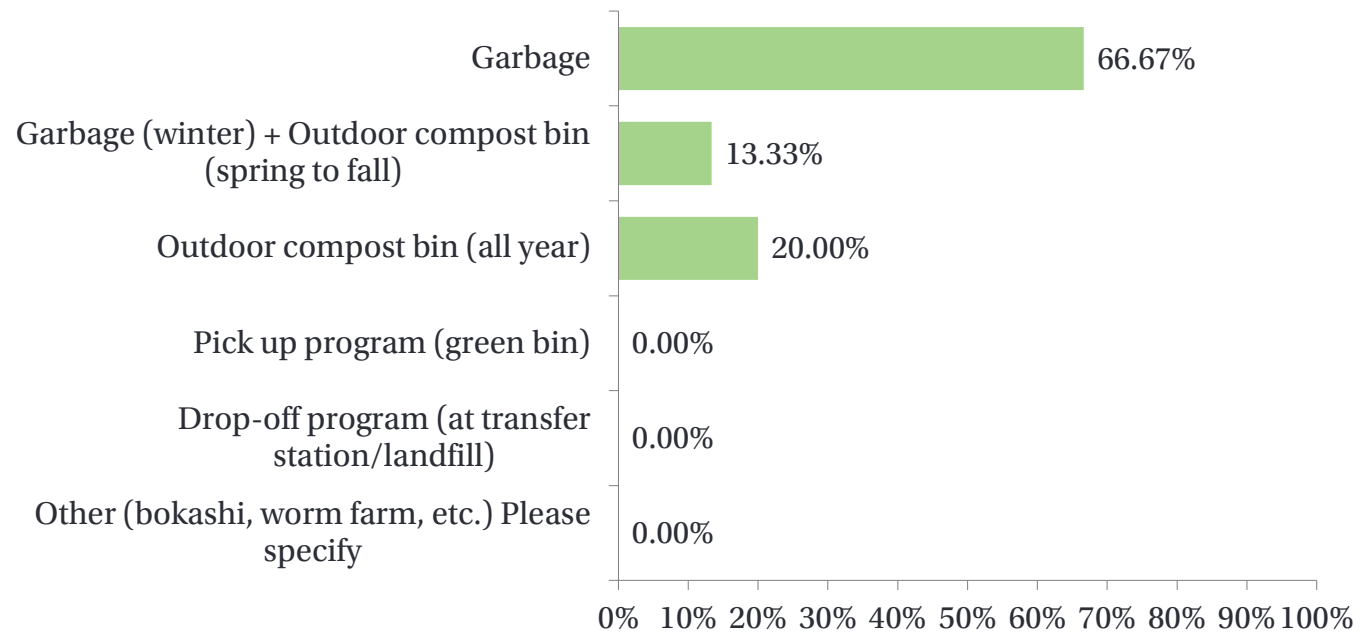
Participants completed a survey to provide data and feedback.



## Pilot Program Results

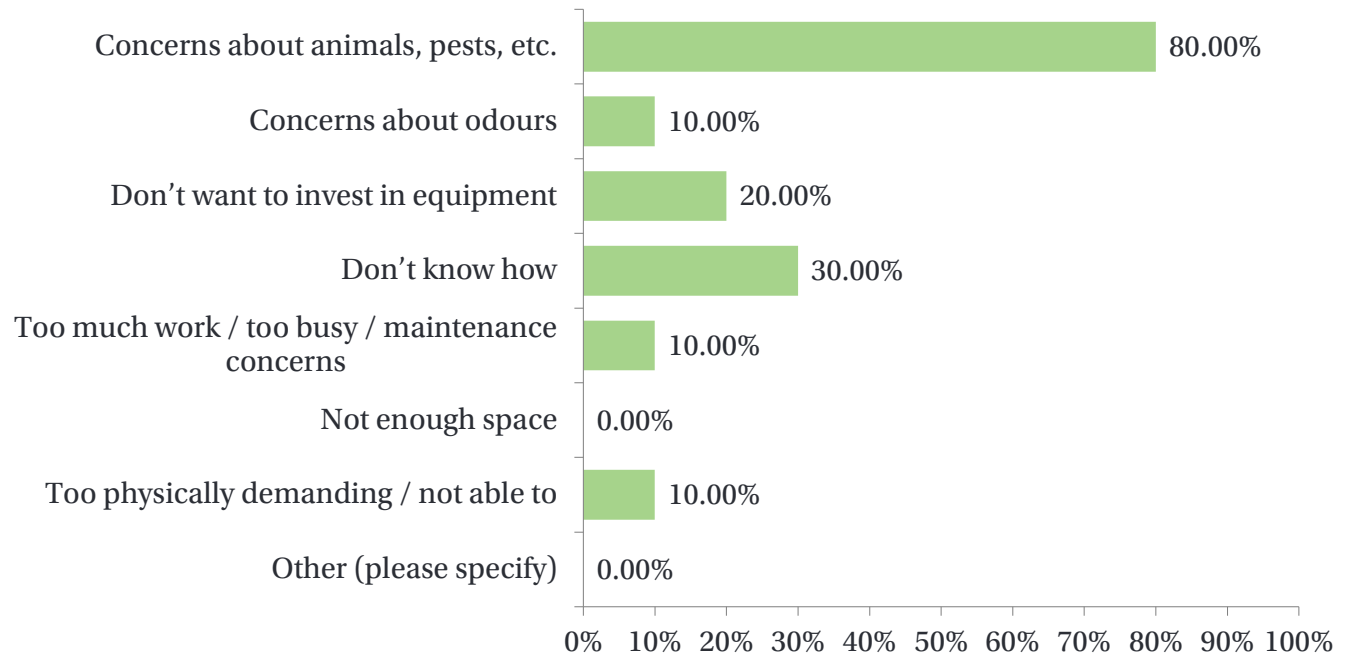
16 responses collected out of 50 participants

Where does your food waste currently go?



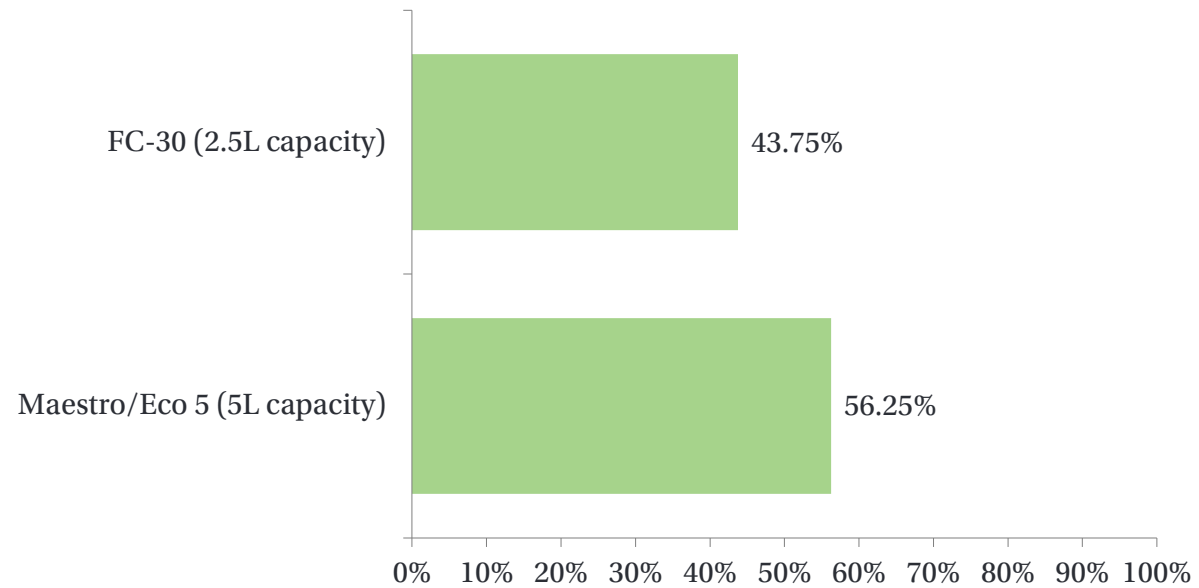
# Pilot Program Results

## Why don't you compost?



## Pilot Program Results

Which device do you have?





## Pilot Program Results

- Average of **2.56 cycles/week** for FC-30
- Average of **3.35 cycles/week** for Eco 5
  - Equivalent to **~254 kg/year/household**
- Total of **12.7 metric tonnes (MT)** of food waste diverted from landfill/year from 50 FoodCyclers in use





## Pilot Program Results

- 50 FoodCyclers will divert **16.5 MT CO<sub>2</sub> equivalents** per year, the equivalent to carbon sequestered by **16.6 acres** of forest each year!





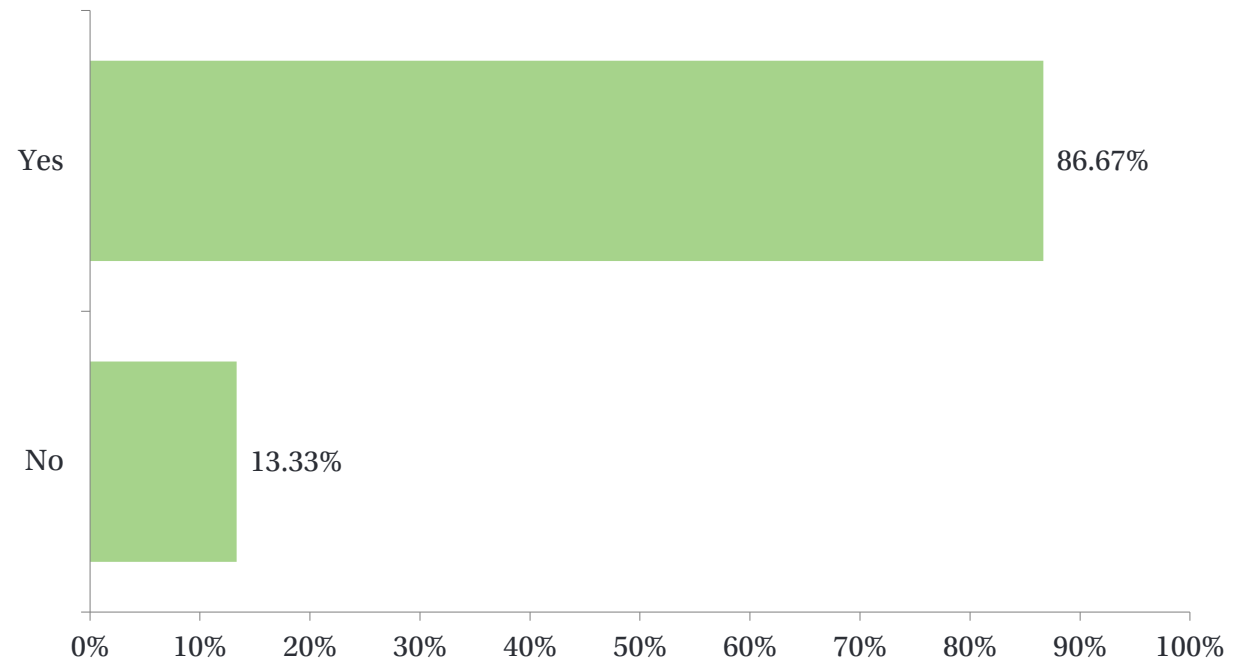
## Pilot Program Results

Residents reported generating 1 fewer standard garbage bag per week, a reduction of 52 garbage bags per household per year being trucked to local landfills!



## Pilot Program Results

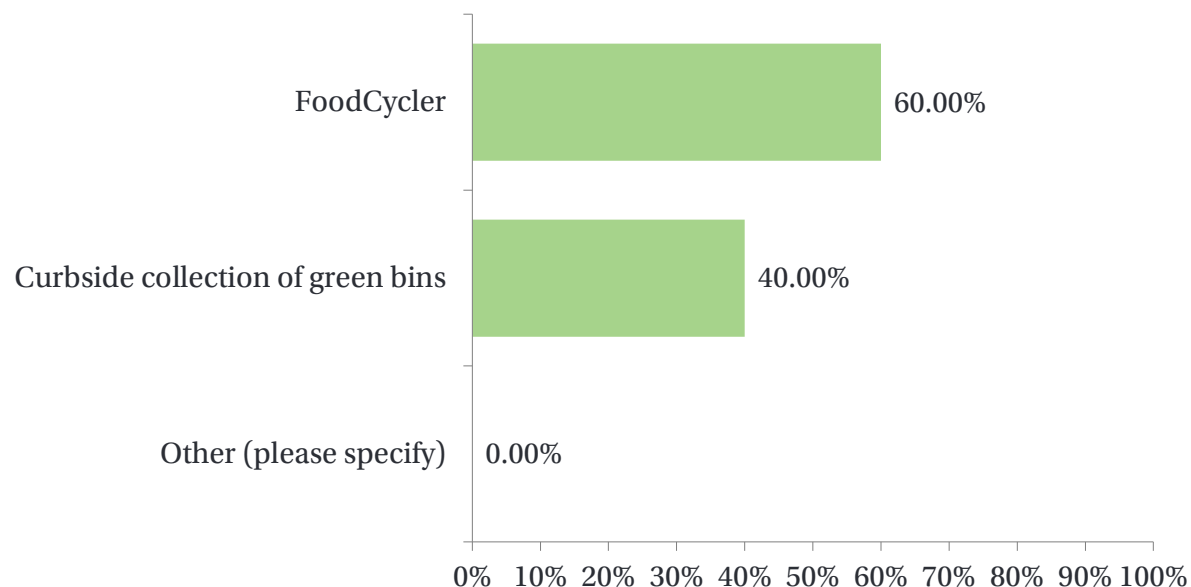
Did increased awareness of food waste motivate you to waste less food?





## Pilot Program Results

If your municipality were to implement a municipal service to manage organic waste, funded through municipal taxes, which method would you prefer?

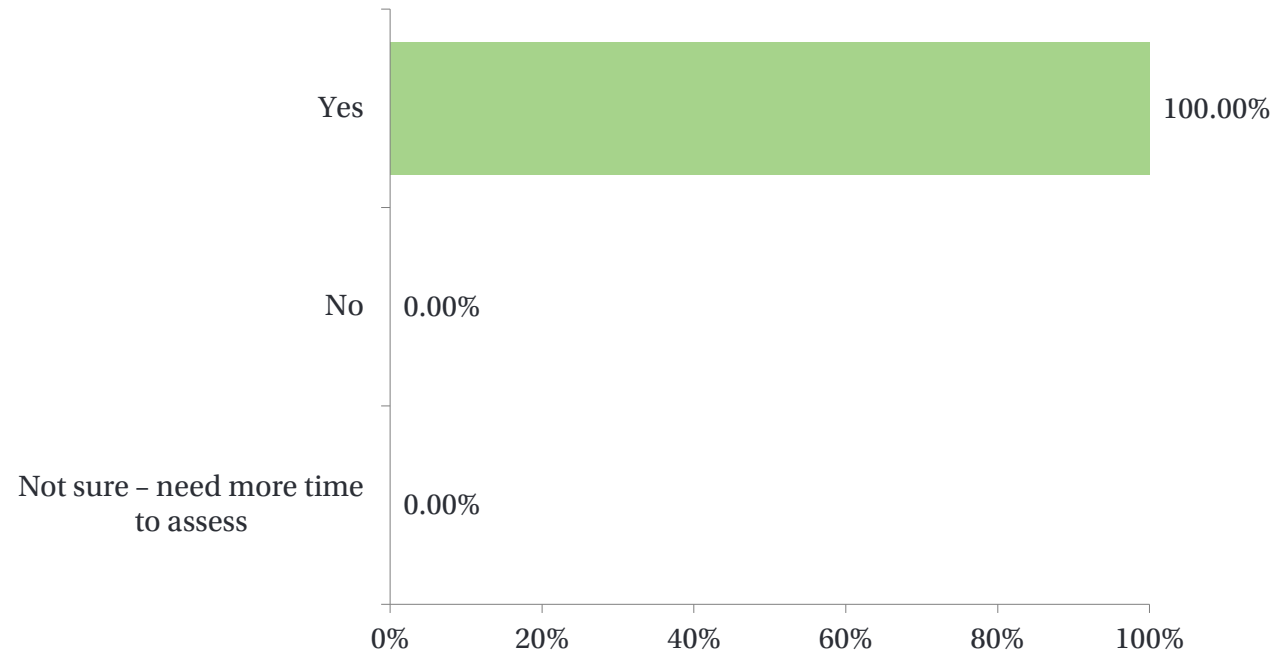


*"I think any curbside pick up would increase public participation. The self haul system for recycling is not working. For us it is a 26 km return trip to recycle from our home in Gantahaz on winter road conditions. The road to the recycle facility is not great. Many people just will not recycle at all because it is inconvenient and for those who do not drive, entirely prohibitive. Foodcyclers are great and with proper education could be a viable solution to recycling food waste. Set up a booth in the mall, educate people, have a foodcycler in operation, show the public how easy it is and then it could be a valuable municipal service."*



## Pilot Program Results

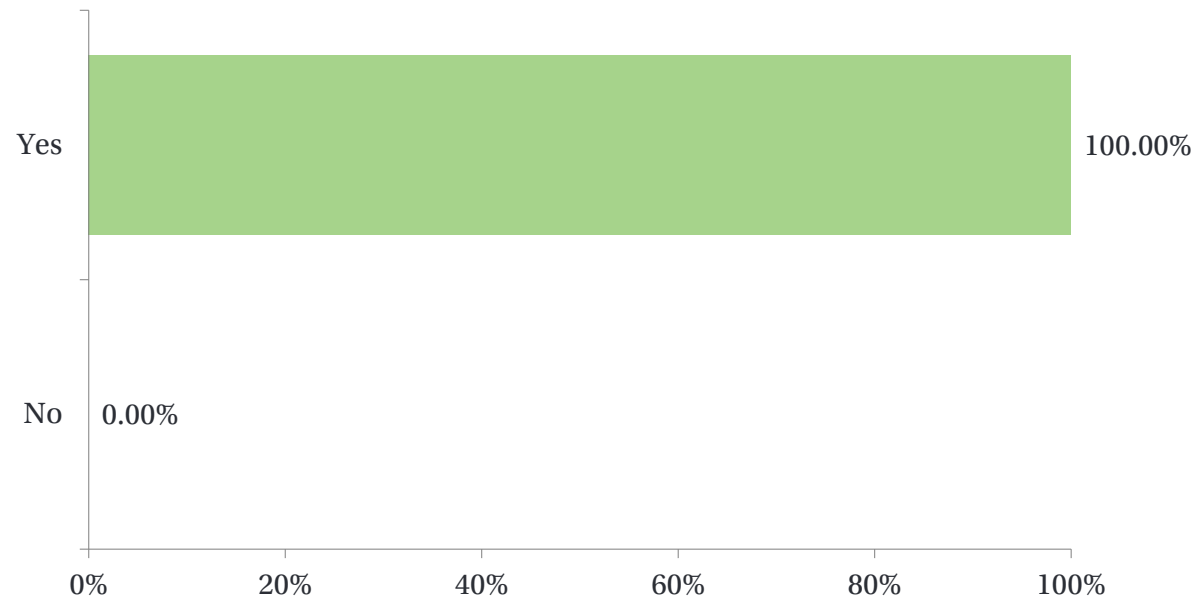
Would you recommend the FoodCycler to Others?





## Pilot Program Results

Will you continue using the FoodCycler after this pilot?



*"Super convenient, love having it and will continue using it moving forward."*

Please rate the overall pilot project experience out of 5 stars.

## Pilot Program Results

Average rating: 4.9/5 Stars



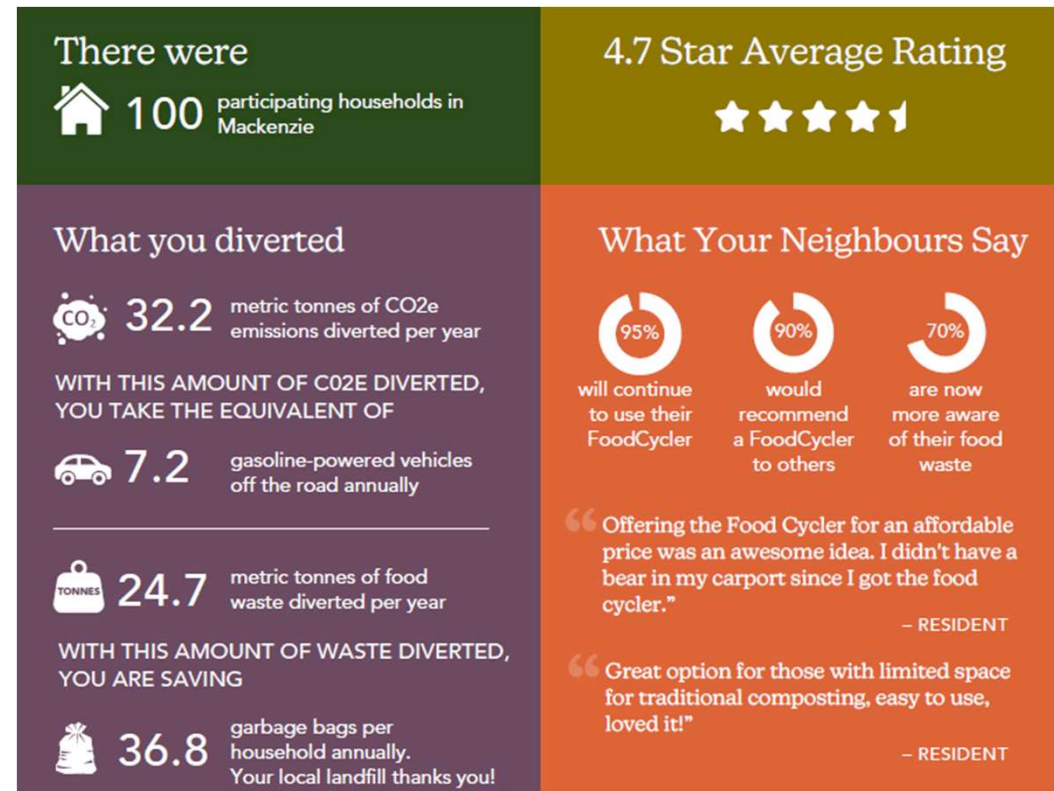
- 1 Star = 0%
- 2 Stars = 0%
- 3 Stars = 0%
- 4 Stars = 13%
- 5 Stars = 87%

*“Great program! Thank you for making it available! “*

*“It’s a great option for people who want to have less food waste  
and have the motivation to use it. “*

# Program Recap: Successful Pilot and Expansion Results

- With Mackenzies Pilot Program and Expansion: There are a total of 150 households that have tested the FoodCycler as an in-home food waste solution
- **Significant Waste Diversion:**
  - 247 kg per household per year, totaling 37 metric tonnes annually
- **Garbage Reduction:**
  - 44.3 fewer bags per household per year
- **Resident Support:**
  - 78% felt more motivated to waste less food.
  - 64% preferred a FoodCycler program over curbside green bins
  - 95% would recommend it to others
  - 97% plan to continue using their FoodCycler
- Next Steps: Expand the program to maximize community impact





# Environmental and Economic Impacts

Less trash. Less trips to the dump. Less costs.



## Residential

- Opportunity to divert food scraps
- Reduced household waste
- Circular process to fertilize land



## Municipal

- Reduced waste management costs
- Extended landfill life
- Establishment of a viable organics program



## Environmental

- Reduced quantity of waste generated
- Avoidance of methane gas production
- Net-negative carbon footprint

# The Science

We are **committed** to continued research.

- Tools available to our municipal partners:
  - Foodilizer Gardening Guide for our partners
  - Detailed Life Cycle Analysis and Carbon Footprint of the FoodCycler
  - GHG Emissions Reduction Calculator





# Thank You

**Farah Sherifdeen**

Municipal Solutions Team

Food Cycle Science

