

# E cargo bike survey OG demonstration

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## Start of Block: Introduction and consent

**Q1 Title of Study: E-Cargo Bike Demonstration Evaluation Principal Investigator:** Steven Farber, PhD., University of Toronto [steven.farber@utoronto.ca](mailto:steven.farber@utoronto.ca), Mashrur Rahman, PhD., University of Toronto [mashrur.rahman@utoronto.ca](mailto:mashrur.rahman@utoronto.ca), Darnel Harris, Executive Director, Our Greenway Conservancy Visiting Scholar, City Institute at York University (CITY), [Info.ourgreenway.ca](mailto:Info.ourgreenway.ca)

**Invitation** Thank you for your interest in this study. This page provides information about the study so you can make an informed decision on whether you wish to participate. Please make sure you have read and understood the entire page. **Why is this study being done?** To understand the barriers to e-cargo bike adoption across Toronto. The study is being conducted as part of the Pilots working group of the Mobilizing Justice Partnership in collaboration with the Our Greenways Conservancy. Learn more at <https://mobilizingjustice.ca/working-groups/technologie-de-mobilite-et-pilote-de-politique-innovante/>.

**Do I have to participate?** No. Participation is voluntary. You can test out an e-cargo bike without having to participate. You can also simply stop taking the survey if you do not like it, and your incomplete answers will not be recorded. If you complete the survey but later decide that you want to withdraw from the study, please contact Dr. Mashrur Rahman at [mashrur.rahman@utoronto.ca](mailto:mashrur.rahman@utoronto.ca) and your data will be deleted. You may withdraw up until midnight on December 31, 2024.

**What is involved with this research study?** This survey is designed to take approximately 10-15 minutes to complete. The survey asks about your experience bicycling, and then about your experience on a Our Greenways e-cargo bicycle.

**What are the risks of participation?** A small number of questions may cover sensitive issues that could create discomfort for some respondents, for example, regarding your barriers to purchasing an e-cargo cycle.

**How will my privacy be protected?** Protecting your information is our top priority. The following steps will be taken to protect your privacy: we will ask no identifying information except for your email in case you want to enter to win the raffle and/or participate in the follow up survey. Your data will be stored in a password locked folder on a university, password secured computer with bitlocker encryption so that only the researchers named on this consent form will access this data. A de-identified version of this data will be made available to Darnel Harris of Our Greenway Conservancy, who will keep that data stored in a password locked folder on a password secured computer with bitlocker encryption when analyzing the data. For research and documentation purposes, a copy of the data will be stored with the University of Toronto-based project administration team on a secure server until March 31, 2031, after which point it will be destroyed.

**Who can participate?** You may be eligible to participate in this follow up if you: Participated in an Our Greenway's e-bike demonstration Are aged 18 or older The survey team reserves the right to limit the number of survey responses that will be accepted.

**What are the benefits to participating?** This survey will help identify barriers to the adoption of e-cargo bicycles. In doing so, the survey will help decision makers within the city of Toronto take action to remove the barriers. This may help enhance the mobility and economic opportunities for thousands of Toronto residents who would benefit from being able to safely use an e-cargo bicycle

throughout the city. You will also be given the opportunity to enter a raffle to win one of the 5 available \$100 President's Choice Gift Cards that can be used at many grocery stores in Canada. **Who can I contact for more information?** If you have questions about the study, please feel free to contact the research team at mashrur.rahman@utoronto.ca. If you have questions about your rights as a research participant, you may contact Dr. Dean Sharpe, Research Ethics Manager at the Office of Research Ethics at (416) 978-5585. We thank you, once again, for your interest. Thank you, Dr. Mashrur Rahman  
 mashrur.rahman@utoronto.ca

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Q2 Do you want to participate?

- Yes, I consent to participating. (1)
- No, I do not consent to participating. (2)

*Skip To: End of Survey If Do you want to participate? = No, I do not consent to participating.*

**End of Block: Introduction and consent**

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**Start of Block: The E-Cargo Bike Experience and Future Plans**

Q3 Please indicate how strongly you agree/disagree with the following statements about e-cargo bikes

	Strongly Disagree (1)	Disagree (2)	Neither agree nor disagree (3)	Somewhat agree (4)	Strongly agree (5)
E-cargo bikes are cool (1)	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
E-cargo bikes are practical (2)	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
E-cargo bikes are good value for money (3)	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
E-cargo bikes can fit into my lifestyle (4)	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

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Q4 After your experience of e-cargo bike demonstration with Our Greenway, did you do any of the following? (Select all that apply)

- Do your own research on buying an e-cargo bike (1)
  - Visit a bike shop to look at their e-cargo bikes (2)
  - Talk to your friends or family about your experience with e-cargo bikes (3)
  - Suggest someone you know should look into e-cargo bikes (4)
  - Look into incentives or rebates for e-cargo bike purchases (5)
  - Purchase an e-cargo bike (6)
  - Purchase another kind of e-bike (7)
  - Purchase a non-electric bike (8)
  - Prefer not to answer (9)
- 

Q5 In the next 12 months, do you intend to purchase any type of bike for the following purposes?

- Yes I intend to buy for personal use (1)
- Yes I intend to buy for commercial use (2)
- I don't intend to purchase one anytime soon (3)

*Skip To: End of Block If In the next 12 months, do you intend to purchase any type of bike for the following purposes? = I don't intend to purchase one anytime soon*

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Q6 Next time you buy a bike, how likely you intend to buy the following types of bikes?

	Extremely unlikely (1)	Somewhat unlikely (2)	Not sure (3)	Somewhat likely (4)	Extremely likely (5)
Regular bike (1)	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Cargo bike (pedal-powered only, no electric motor) (2)	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Electric bike (E-bike) (3)	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
E-Cargo bike (with electric motor) (4)	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

End of Block: The E-Cargo Bike Experience and Future Plans

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Start of Block: Perceived needs and barriers

Q7 How useful is an e-cargo bike to you? Please select to what extent you agree/disagree with the following statements

	Strongly agree (1)	Somewhat agree (2)	Neither agree nor disagree (3)	Somewhat disagree (4)	Strongly disagree (5)
Using an e-cargo bike could help me to perform my daily activities more easily (1)	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Using an e-cargo bike would allow me to travel faster and save time (2)	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
I can more easily carry things with me in an e-cargo bike (3)	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Using an e-cargo bike will save money (4)	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

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Q8 If you had an e-cargo bike, for what purpose(s) would you use it for? Select all that apply

- Your workplace (1)
  - School (2)
  - Grocery (3)
  - Other shopping (4)
  - Personal Errands (haircut, vet, banking) (5)
  - Recreation or entertainment (park, gym, movies) (6)
  - Visit with family or friends (7)
  - Medical or health-related (appointments, pharmacy, etc.) (8)
  - Attend community events (i.e., club, church, etc. ...) (9)
  - Taking someone else somewhere (i.e. caregiving) (10)
- 

Q9 Is secure parking available at or near your home for these e-cargo bikes?

- Yes (1)
  - No (2)
-

Q10 To what extent a secure parking available at or near the places you would need to ride with an e-cargo bike?

- Easily available (1)
  - Somewhat available (2)
  - Not sure (3)
  - Not easily available (4)
  - Not available at all (5)
-

Q11 How significant are each of the following in keeping you from purchasing an e-cargo bike?  
Please select to what extent you agree/disagree with the following statements

	Strongly agree (1)	Somewhat agree (2)	Neither agree nor disagree (3)	Somewhat disagree (4)	Strongly disagree (5)
It is expensive to buy an e-cargo bike (1)	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
E-cargo bikes are heavy to handle (2)	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
There is a lack of safe parking facilities for e-cargo bikes (3)	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Driving is more convenient (4)	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Transit is more convenient (5)	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
An e-cargo Doesn't make sense for my business (6)	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Weather conditions (e.g. rain and snow) are not good for biking (7)	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Poor road conditions (e.g. slippery roads, potholes, cracks, debris, etc.) (8)	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>



The bike lanes in Toronto are not good for riding an e-cargo bike (9)

In case of an accident, there is a higher chance of getting severely injured (10)

I am afraid that my e-bike can be stolen (11)

End of Block: Perceived needs and barriers

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Start of Block: Travel behavior, attitudes, and perceptions

Q12 We would like to know about your travel pattern. How often do you ride any type of bike?

- Every day or almost every day (1)
  - A few times in a week (2)
  - A few times in a month (3)
  - A few times per year (4)
  - Have not used this year (5)
  - Never (6)
-

Q13 During the last 7 days (up to yesterday), how many days did you travel in the following ways?

Drive or ride in a car (1)	▼ 0 (1) ... 7 (8)
Ride on a bus or train (2)	▼ 0 (1) ... 7 (8)
Bicycle to or from work or school (3)	▼ 0 (1) ... 7 (8)
Bicycle to or from public transit (4)	▼ 0 (1) ... 7 (8)
Bicycle to get somewhere other than work, school, or public transit (e.g., to go shopping, see a friend, or eat outside) (5)	▼ 0 (1) ... 7 (8)
Ride a bicycle for exercise or recreation, without having a destination for the trip (6)	▼ 0 (1) ... 7 (8)

Q14 How to you usually travel for the following purposes?

	Drive or ride in a car (1)	Ride a bicycle (2)	Use public transit (bus, tram, metro, train) (3)	Walk (4)	Motorcycles/mopeds (5)	Mobility scooters (6)	Other (7)	I don't go there (8)
Your workplace (1)	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
School (2)	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Grocery (3)	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Other shopping (4)	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Personal Errands (haircut, vet, banking) (5)	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Recreation or entertainment (park, gym, movies) (6)	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Visit with family or friends (7)	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Medical or health-related (appointments, pharmacy, etc.) (8)	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Attend community events (i.e., club, church, etc. ...) (9)	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Taking someone else somewhere (i.e.	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

caregiving)  
(10)

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Q15 Now we would like to know how you feel about bicycling and using a car. First consider bicycling. Please indicate to what extent do you agree/disagree with the following statements?

	Strongly disagree (1)	Somewhat disagree (2)	Neither agree nor disagree (3)	Somewhat agree (4)	Strongly agree (5)
I like riding a bicycle (1)	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Riding a bicycle is fun (2)	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Riding a bicycle is good for health (3)	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
I try to limit my driving as much as possible (4)	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
I feel comfortable around cars when bicycling in my city (5)	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

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Q16 Now consider about using a car. Please indicate to what extent do you agree/disagree with the following statements?

	Strongly disagree (1)	Somewhat disagree (2)	Neither agree nor disagree (3)	Somewhat agree (4)	Strongly agree (5)
Having/using a personal car is a more affordable way to travel than other options (1)	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Driving is usually the fastest way for me to get to where I need to go (2)	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Driving is enjoyable (3)	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Driving gives me more control over my schedule (4)	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Having a car is a sign of success (5)	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
I feel safe when driving (6)	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Having a car is important to getting or keeping a job (7)	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

Q17 Please indicate how accurately each describes how you feel.

	Strongly disagree (1)	Somewhat disagree (2)	Neither agree nor disagree (3)	Somewhat agree (4)	Strongly agree (5)
I am usually among the first to try out new technologies. (1)	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Everyone should reduce car use for the sake of the environment. (2)	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Using bikes/cargo bikes will help to alleviate harmful emissions and air pollution. (3)	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Air pollution is a serious problem in my city (4)	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Improving sidewalks should be a priority for the government (5)	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

Q18 We would like to know how do you feel about your current neighborhood.

	Strongly disagree (1)	Somewhat disagree (2)	Neither agree nor disagree (3)	Somewhat agree (4)	Strongly agree (5)
Major streets around my neighborhood have bike lanes (1)	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Streets without bike lanes are generally wide enough to bike on (2)	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
The city has a network of off-street bike paths (3)	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Stores and other destinations have bike parking (4)	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Streets and bike paths are well lit (5)	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
I feel unsafe due to traffic while traveling around my neighborhood (6)	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
I feel unsafe due to harassment or crime while traveling around my neighborhood (7)	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

End of Block: Travel behavior, attitudes, and perceptions

Start of Block: Vehicles owned, intentions to purchase and support

Q19 How many cars does your household own or lease? (Select one)

- 0 (1)
  - 1 (2)
  - 2 (3)
  - 3 or more (4)
- 

Q20 Do you own a bike? Select all that apply

- Conventional bicycle (pedal-powered only, no electric motor) (1)
  - Cargo bike (with built-in basket/carrier, no electric motor) (2)
  - Electric bike (E-bike) (3)
  - E-cargo bike (with built-in basket/carrier with electric motor) (4)
  - I don't own a bike (5)
- 

Q21 Do you support the use of personal e-cargo bikes?

- Yes (1)
  - Not sure (2)
  - No (3)
-



Q22 Do you support the use of larger commercial e-cargo bikes?

- Yes (1)
- Not sure (2)
- No (3)

End of Block: Vehicles owned, intentions to purchase and support

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Start of Block: Socio-demographics

Q23 How many people live in your household including you?

▼ 1 (1) ... 10 or more (10)

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Q24 What is your age?

\_\_\_\_\_

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Q25 Which gender do you identify as? (Select one)

- Male (1)
  - Female (2)
  - Non-binary (3)
  - Prefer not to answer (4)
  - Different gender identity, please specify (5)
- \_\_\_\_\_
-

Q26 How can you best describe your household type?

- Single person household (1)
  - Couple (2)
  - Couple + child(ren) (3)
  - Couple + child(ren) + other(s) (4)
  - Couple + Other(s) (5)
  - Single parent family + child(ren) (6)
  - Single parent family + child(ren) + other(s) (7)
  - A different type of family situation (8)
- 

Q27 What is your highest certificate, diploma or degree?

- No certificate, diploma or degree (1)
  - Secondary (high) school diploma or equivalency certificate (2)
  - Apprenticeship or trades certificate or diploma (3)
  - College, CEGEP or other non-university certificate or diploma (4)
  - University certificate or diploma below bachelor level (5)
  - University certificate, diploma or degree at bachelor level or above (6)
-

Q28 What is your present employment status? Select all that apply

- Employed full time (1)
  - Employed part time (2)
  - Homemaker (3)
  - Student (4)
  - Retired (5)
  - Not employed (6)
  - Looking for work (7)
  - Unable to work and receiving government assistance (8)
  - Unable to work and not receiving government assistance (9)
- 

Q29 What is your household's annual income before taxes?

- (1)
  - \$40,000-\$59,999 (2)
  - \$60,000-\$99,999 (3)
  - More than \$100,000 (4)
- 

Q30 Are you a homeowner or renter?

- Home owner (1)
  - Renter (2)
-

Q31 When did you most recently move to Canada?

- Born here (1)
  - Moved to Canada less than 2 years ago (2)
  - Moved to Canada 2-5 years ago (3)
  - Moved to Canada 6-10 years ago (4)
  - Moved to Canada 11-15 years ago (5)
  - Moved to Canada +16 years ago (6)
- 

Q34 Do you identify as First Nations, Métis, and/or Inuit? (IF YES, select as many as apply)

- No (1)
  - Yes, First Nations (2)
  - Yes, Métis (3)
  - Yes, Inuit (4)
  - Prefer not to answer (5)
-

Q35 In our society, people are often described by their race or racial background. For example, some people are considered “White” or “Black” or “East/Southeast Asian,” etc. Which race category best describes you? (Select as many as apply)

- White (1)
  - South Asian (e.g., East Indian, Pakistani, Sri Lankan) (2)
  - Chinese (3)
  - Black (4)
  - Filipino (5)
  - Arab (6)
  - Latin American (7)
  - Southeast Asian (e.g., Vietnamese, Cambodian, Laotian, Thai) (8)
  - West Asian (e.g., Iranian, Afghan) (9)
  - Korean (10)
  - Japanese (11)
  - Another group — specify (12)
- 

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Q36 Do you consider yourself to be a person with a disability that prevents you from cycling? (A person with a disability has an ongoing, physical, mental, sensory or learning impairment which may result in a barrier to cycling.)

- Yes (1)
  - No (2)
-

Q37 What is your current address?

Address (optional) (1) \_\_\_\_\_

nearest major road intersections (2)  
\_\_\_\_\_

Postal Code (3) \_\_\_\_\_

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Q39 Your email

\_\_\_\_\_

**End of Block: Socio-demographics**

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