Travel, Environmental, and Equity Impacts of Income-Conditioned E-Bike Rebates in British Columbia



Final Report

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Towards Evidence-Based Transportation Equity Policy







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Appendix B. Survey Instrument

Appendix B.1. Wave 1 Questionnaire

Section 1: Consent form

Effects of Bicycle Purchases on Travel Behaviour over Time

Research Team & Study Purpose

Thank you for considering participation in this study. The study is being conducted by Dr. Alex Bigazzi and the Research on Active Transportation (REACT) Lab at the University of British Columbia (UBC), in collaboration with researchers at Simon Fraser University and University of Toronto. We are investigating the effects of bicycle purchases on travel behaviour over time. We seek study participants from the province of British Columbia who are considering purchasing or have recently purchased or acquired an electric bicycle and are at least 19 years of age. The study findings will help to inform programs and policies that facilitate bicycle adoption and promote sustainable transportation.

Survey Details

To measure long-term effects, we are using a three-part study design. In Part 1 (this survey), you will be asked to provide information about your travel habits, your household, any recent bicycle purchase you have made, and your most recent 2 trips made using that bicycle. Then, at the end of the survey, you will be asked if you agree to be contacted in 3 months to participate in Part 2 of this study, which is a follow-up survey about changes to your travel habits and bicycle ownership. Part 3 of the study will be a similar follow-up survey after 12 months.

Each of the three surveys should take around 10 minutes to complete. Participation is voluntary, and you can withdraw at any time. You may complete this survey and decline to be contacted or participate in Part 2 or Part 3. Study data will be encrypted and your responses will remain confidential. No personally identifying information will be included when the study findings are presented or published.

Draw for Ten \$25 Gift Cards

You may enter a draw for one of ten \$25 gift cards and/or request to have the final study results sent to you by entering your email address below. Your email address will not be shared or used for any other purpose. Everyone who takes the survey and enters their email address will be considered in the prize draw (even those who withdraw or do not answer every question). Your chance of receiving a gift card is approximately 1 in 500; all gift cards will be distributed in British Columbia.

Contact Information

If you have any questions about this study, or if you have accessibility needs to take the survey, including in another language, please email react.lab@ubc.ca. If you have any concerns or complaints about your rights as a research participant and/or your experiences while participating in this study, contact the Research Participant Complaint Line in the UBC Office of Research Ethics at 604-822-8598 or email RSIL@ors.ubc.ca or call toll free at 1-877-822-8598 (ethics ID: H21-02361).

Click on "I agree" below to indicate your consent to participate in this survey and proceed.

- I agree
- I disagree

[Skip to end of survey if selected "I disagree"]

Do you want to enter the draw for a gift card and/or hear about the results of the study? Check all that apply.

- I want to enter the draw for a gift card
- I want to hear about the results of this study
- I do not want to enter the draw for a gift card or hear about the results

[Display this question if did not select "I do not want to enter the draw for a gift card or hear about the results"]

Please enter your email address. Your email will not be used for any other purposes. [open text box]

Section 2: Bicycle purchase

Which option best describes you?

- I recently purchased an electric bike
- I am considering purchasing an electric bike
- I am not considering purchasing an electric bike

[Display this question if answered "I am not considering purchasing an electric bike"]

We are investigating the effects of electric bike purchases on travel behaviour over time. This survey is for those who recently purchased or are considering purchasing an electric bike. As per your selection, you are not considering purchasing an electric bike, so you will be taken to the end of the survey. In case you mistakenly chose "I am not considering purchasing an electric bike", please change your selection and proceed.

For the questions below, please tell us about your most recent electric bicycle (e-bike) purchase. Include purchases of used bikes, and any bikes that were purchased for you.

On what date was your e-bike purchase made? [open text box]

What are the make and model of your e-bike? [open text box]

If your e-bike has an odometer, please enter the current approximate number of kilometres on your e-bike's odometer.

- My e-bike does not have an odometer
- The number of kilometres on my e-bike's odometer is: [open text box]

What percentage of your e-bike's use do you expect will be by you (versus others in your household)? [slide from 0 to 100%]

Section 3: First purchase, rebate, e-bike use, and recent trips

What were the main considerations in purchasing an e-bike? Please select and rank up to 3, with most important first, by dragging and dropping your selections into the box. Top 3 considerations:

- Purchase cost
- Appearance/style
- Weight
- Maintenance needs
- Charging needs
- Riding comfort
- Physical effort to ride
- Fun to ride

- Frequency of use
- Riding speed
- Riding distance
- Substitute other modes of travel
- Carry children
- Carry cargo
- Other [open text box]

Please indicate the amount of rebates you received (or expect to receive) from Province of British Columbia in dollars.

- I did/will not receive any rebates
- \$350

- \$1,000
- \$1,400

If you received any other rebate or financial incentive not listed above, please describe them below. Please list source(s) and enter the amount in dollars. [open text box]

What is the final approximate amount you paid (after any rebates described above)? Do not include accessories such as a helmet, lock, or lights. [open text box]

[Display this question if did not select "I did/will not receive any rebates"]

If the rebate described on the previous page had not been available for this purchase, what is the likelihood each of the following would have happened? Please click anywhere inside the bars to move the sliders. Numbers should add up to 100%. [sliders from 0 to 100]

- The same purchase would have been made
- A different e-bike would have been purchased
- A conventional bike would have been purchased
- No bike purchase would have been made

In the past month, what have been your main considerations in deciding whether to use your e-bike versus another mode of travel for a trip? Please select and rank up to 3, with most important first. Top 3 considerations:

- Travel distance
- Travel time
- Weather
- Riding facilities
- Cargo I need to carry
- Accompanying travellers

- Physical exertion/exercise
- Bike parking
- Battery charging
- Environmental impacts
- Fun/enjoyment

No

• Other [open text box]

Have you used your e-bike at least 2 times in the past month?

• Yes •

[Skip to end of section if selected "No"]

We will next ask about the most recent 2 round/return trips you made with your e-bike. A round/return trip is leaving from home and returning home again, with any number of stops along the way. Please provide your best estimate for all questions.

What date was your most recent trip made? [open text box]

What was the main purpose of this trip?

- Travel to work or school (commuting)
- Work-related travel (other than commuting)
- Personal shopping or errands (store, bank, health appointments, etc.)
- Social, recreational, or dining (visiting friends/family, religious activity, etc.)
- Exercise/leisure trip with no main destination
- Escort/chauffeur someone on their trip (to school, work, etc.)
- Other (please specify) [open text box]

About how many kilometres did you travel over the entire round trip? [slider from 0 to 40]

Had you not made this purchase, what is the likelihood you would have used each of the following for this trip? Please click anywhere inside the bars to move the sliders. Numbers should add up to 100%. [slider from 0 to 100%]

- Walking, running, or mobility device
- Conventional bike
- E-bike
- Car, truck, or motorcycle (private, shared, or taxi)
- Public transit (bus, ferry, etc.)
- Other [open text box]
- I would not have made the trip

Would the length or your trip have been different if it had been made using the most likely travel mode indicated above?

- Yes
- No
- Not applicable (I most likely would not have made my trip)

[Display this question if selected "Yes"]

How do you expect your total trip distance would have changed?

• -75%

• +25%

• -50%

• +50%

-25%

• +75%

What date was your second-to-last trip made? [open text box]

What was the main purpose of this trip?

- Travel to work or school (commuting)
- Work-related travel (other than commuting)
- Personal shopping or errands (store, bank, health appointments, etc.)
- Social, recreational, or dining (visiting friends/family, religious activity, etc.)
- Exercise/leisure trip with no main destination
- Escort/chauffeur someone on their trip (to school, work, etc.)
- Other (please specify) [open text box]

About how many kilometres did you travel over the entire round trip? [slider from 0 to 40]

Had you not made this purchase, what is the likelihood you would have used each of the following for this trip? Please click anywhere inside the bars to move the sliders. Numbers should add up to 100%. [slider from 0 to 100%]

- Walking, running, or mobility device
- Conventional bike
- E-bike
- Car, truck, or motorcycle (private, shared, or taxi)
- Public transit (bus, ferry, etc.)
- Other
- I would not have made the trip

Would the length or your trip have been different if it had been made using the most likely travel mode indicated above?

- Yes
- No
- Not applicable (I most likely would not have made my trip)

[Display this question if selected "Yes"]

How do you expect your total trip distance would have changed?

- -75%
- -50%
- -25%

- +25%
- +50%
- +75%

Section 4: Travel matrix

[For participants who reported not purchasing an e-bike, "In the month before you made this purchase" was replaced with "In the past month"]

In the month before you made this purchase, on average how many days per week did you use each of the following modes of travel (for any purpose, including exercise or recreation)? [from 0 to 7]

- Walking, running, or mobility device
- Conventional bike
- E-bike
- Car, truck, or motorcycle (private, shared, or taxi)
- Public transit (bus, ferry, etc.)
- Other

In the month before you made this purchase, on average how many kilometers per day did you travel with each of the following modes of travel, on days that you used them (for any purpose, including exercise or recreation)? [sliders from 0 to 50]

Walking, running, or mobility device

- Conventional bike
- E-bike
- Car, truck, or motorcycle (private, shared, or taxi)
- Public transit (bus, ferry, etc.)
- Other

How comfortable would you feel cycling on your own in each of the following situations? [Very uncomfortable, somewhat uncomfortable, somewhat comfortable, very comfortable]

- On local neighbourhood streets with little traffic and low speeds
- On major streets that have bike lanes separated from traffic with a physical barrier
- On major streets that have a painted bike lane with no physical barrier

Section 5: Commute, household and personal information, and closing

This last set of questions about you and your household will help us understand the context for e-bike adoption.

If you commute to work or school, what are the first 3 digits of the postal code (or other location identifier) for the place to which you most often commute?

- I do not commute to work/school
- I commute to work (please enter the first 3 digits of the postal code below) [open text box]

[Display this question if selected "I commute to work"]

In the past month, what modes of travel did you use to get to work or school? Please rank from most to least often used by dragging and dropping your selections into the box. Modes used:

- Walking, running, or mobility device
- Conventional bike
- E-bike
- Car, truck, or motorcycle (private, shared, or taxi)
- Public transit (bus, ferry, etc.)
- Other [open text box]

What are the first 3 digits of your home postal code? (or other home location identifier, if you prefer, such as neighbourhood) [open text box]

How many adults, including yourself, are living in your household? A household is defined as a group of people who share a kitchen, and excludes visitors.

1

• 3

• 2

• 4

• 5 • 6+

How many children are living in your household?

• 0

• 1

• 2

• 3

• 4

• 5

• 6+

What is your household dwelling type?

- Single-detached house
- Semi-detached house (duplex, row house, townhouse)
- Apartment or condominium
- Other (please specify): [open text box]

How many of each of the following working/functional vehicles are currently available to the members of your household, including yourself? Please include personal and business vehicles. [from 0 to 4+]

- Registered and insured motor vehicles (cars, trucks, motorcycles, etc.)
- Conventional bikes
- E-bikes

[Display this question if had at least 1 conventional or electric bike]

At home, where do you normally park your bike(s)? Check all that apply.

- On the street
- In a shared/common space (bike room, courtyard)
- In a private outdoor space (balcony, patio, yard)
- Inside my unit/house
- Other (please specify): [open text box]

Do you have a driver's license?

YesNo

What is your age in years?

• 16 - 19

• 20 - 29

• 30 - 39

• 40 - 49

• 50 - 59

• 60 - 69

• 70 -79

• >79

Prefer not to answer

What is your current gender identity? Check all that apply.

- Man
- Woman

- Non-binary
- Prefer not to answer

• Not listed [open text box]

Which of the following census categories best describes you? Check all that apply.

- Métis, First Nations, or Indigenous
- White
- Asian
- Black

- Latin American
- Arab
- Prefer not to answer
- Other [open text box]

Do you have any difficulty walking, using stairs, or doing other physical activities?

- No
- Sometimes

- Often
- Always

What is the highest level of education you have completed?

- Some high school or less
- Completed high school/equivalency
- College/university certificate or diploma
- Bachelor's degree
- Graduate degree (master's or doctorate)
- Prefer not to answer

What is your gross (pre-tax) annual household income? (in CAD)

- Less than \$25,000
- \$25,000 \$50,000
- \$50,000 \$75,000
- \$75,000 \$100,000

- \$100,000 \$150,000
- More than \$150,000
- Prefer not to answer

Thank you for participating. The survey is now complete. Do you have any comments or clarifications about the information you provided in this survey? [open text box]

This survey was Part 1 of a 3-part study designed to investigate the effects of e-bike purchases on travel behaviour over time. The next two parts are follow-up surveys that will ask about changes from the responses you have given here after 3 and 12 months. Your continued participation in the next two parts of the study will be essential to the value of your responses. If you select "I agree" below, an invitation email for the next survey will be sent to you in 3 months, with up to 2 reminders. You will not be obligated to complete the survey, and can withdraw at any time. Your email address will not be used for any other purpose. Do we have your permission to contact you for the follow-up survey in 3 months?

I agree to be contacted

• No – I do not wish to be contacted about the next part of the survey

[Display this question if selected "I agree to be contacted"]

Please enter your email address. Your email will not be used for any other purposes. [open text box]

Appendix B.2. Wave 2 Questionnaire

Section 1: Consent form

Effects of Bicycle Purchases on Travel Behaviour over Time - Part 2

Research Team & Study Purpose

Thank you for considering continued participation in this study, which will be essential to the value of your past responses. The study is being conducted by Dr. Alex Bigazzi and the Research on Active Transportation (REACT) Lab at the University of British Columbia (UBC), in collaboration with researchers at Simon Fraser University and University of Toronto. We are investigating the effects of bicycle purchases on travel behaviour over time. The study findings will help to inform programs and policies that facilitate bicycle adoption and promote sustainable transportation.

Survey Details

This is Part 2 of a 3-part study. You have been invited because you completed Part 1 and agreed to be contacted to participate in Part 2. If you did not complete Part 1, or have any questions or concerns about your invitation to participate in Part 2, please contact react.lab@ubc.ca.

This survey should take around 10 minutes to complete. You will be asked to provide updated information about your travel habits, and bicycle ownership. At the end of the survey, you will be asked if you agree to be contacted in 9 months to participate in Part 3 of this study, which is a similar follow-up survey. Participation is voluntary, and you can withdraw at any time. You may complete this survey and decline to be contacted or participate in Part 3. Your responses will remain confidential, and any identifying information will be removed before the results are presented.

Draw for Ten \$40 Gift Cards

You may enter a draw for one of ten \$40 gift cards and/or request to have the final study results sent to you by entering your email address below. Your email address will not be shared or used for any other purpose. Everyone who takes the survey and enters their email address will be considered in the prize draw (even those who withdraw or do not answer every question). Your chance of receiving a gift card is approximately 1 in 500; all gift cards will be distributed in British Columbia.

Contact Information

If you have any questions about this study or if you have accessibility needs to take the survey, including in another language, please email react.lab@ubc.ca. If you have any concerns or complaints about your rights as a research participant and/or your experiences while participating in this study, contact the Research Participant Complaint Line in the UBC Office of Research Ethics at 604-822-8598 or email RSIL@ors.ubc.ca or call toll free at 1-877-822-8598 (ethics ID: H21-02361).

Click on "I agree" below to indicate your consent to participate in this survey and proceed.

• I agree

I disagree

[Skip to end of survey if selected "I disagree"]

Do you want to enter the draw for a gift card and/or hear about the results of the study? Check all that apply.

- I want to enter the draw for a gift card
- I want to hear about the results of this study
- I do not want to enter the draw for a gift card or hear about the results

Section 2: Still own e-bike?

[Display this question if participant reported purchasing an e-bike in Wave 1 questionnaire]

Do you still own the e-bike you previously told us about in the Part 1 survey? Make and model of your e-bike from part 1 survey: [model specified by participants in Wave 1 questionnaire]

- Yes, I still own that e-bike
- No, I do not (if possible, please elaborate why not?) [open text box]

[Display this question if participant reported not purchasing an e-bike in Wave 1 questionnaire or selected "No, I do not" in previous question]

Which option best describes you regarding the e-bike you told us about in Part 1?

- I replaced that e-bike with another e-bike
- I did not replace that e-bike

[Display this question if selected "I replaced that e-bike with another e-bike"]

Which option best describes you?

- I recently purchased an e-bike
- I am considering purchasing an e-bike
- I am not considering purchasing an e-bike

[The following questions are similar to section 2 in Wave 1 questionnaire with questions regarding newly purchased e-bikes]

For the questions below, please tell us about your most recent electric bicycle (e-bike) purchase. Include purchases of used bikes, and any bikes that were purchased for you.

For the questions below, please tell us about your most recent electric bicycle (e-bike) purchase. Include purchases of used bikes, and any bikes that were purchased for you.

On what date was your e-bike purchase made? [open text box]

What are the make and model of your e-bike? [open text box]

What percentage of your e-bike's use do you expect will be by you (versus others in your household)? [slide from 0 to 100%]

Section 3: First purchase, and rebate

[This section is similar to section 3 in Wave 1 questionnaire with questions regarding newly purchased e-bikes and was shown to participants if they reported purchasing an e-bike in this wave]

What were the main considerations in purchasing an e-bike? Please select and rank up to 3, with most important first, by dragging and dropping your selections into the box. Top 3 considerations:

- Purchase cost
- Appearance/style
- Weight
- Maintenance needs
- Charging needs
- Riding comfort
- Physical effort to ride
- Fun to ride

- Frequency of use
- Riding speed
- Riding distance
- Substitute other modes of travel
- Carry children
- Carry cargo
- Other [open text box]

Please indicate the amount of rebates you received (or expect to receive) from Province of British Columbia in dollars.

- I did/will not receive any rebates
- \$350

- \$1,000
- \$1,400

If you received any other rebate or financial incentive not listed above, please describe them below. Please list source(s) and enter the amount in dollars. [open text box]

What is the final approximate amount you paid (after any rebates described above)? Do not include accessories such as a helmet, lock, or lights. [open text box]

[Display this question if did not select "I did/will not receive any rebates"]

If the rebate described on the previous page had not been available for this purchase, what is the likelihood each of the following would have happened? Please click anywhere inside the bars to move the sliders. Numbers should add up to 100%. [sliders from 0 to 100]

- The same purchase would have been made
- A different e-bike would have been purchased
- A conventional bike would have been purchased
- No bike purchase would have been made

In the past month, what have been your main considerations in deciding whether to use your e-bike versus another mode of travel for a trip? Please select and rank up to 3, with most important first. Top 3 considerations:

- Travel distance
- Travel time
- Weather
- Riding facilities
- Cargo I need to carry
- Accompanying travellers

- Physical exertion/exercise
- Bike parking
- Battery charging
- Environmental impacts
- Fun/enjoyment
- Other [open text box]

Section 4: E-bike use and recent trips

If your e-bike has an odometer, please enter the current approximate number of kilometres on your e-bike's odometer.

- My e-bike does not an odometer
- The number of kilometres on my e-bike's odometer is: [open text box]

In the past month, what have been your main considerations in deciding whether to use your e-bike versus another mode of travel for a trip? Please select and rank up to 3, with most important first. Top 3 considerations:

- Travel distance
- Travel time
- Weather
- Riding facilities
- Cargo I need to carry
- Accompanying travellers

- Physical exertion/exercise
- Bike parking
- Battery charging
- Environmental impacts
- Fun/enjoyment
- Other [open text box]

How has your experience been with the following aspects of your e-bike, compared to your expectations? [sliders from -10 to 10]

- Overall experience
- How often you use it

- Enjoyment/fun
- Riding comfort

- Safety
- Parking

- Charging
- Other [open text box]

Have you used your e-bike at least 2 times in the past month?

YesNo

[Skip to end of section if selected "no"]

We will next ask about the most recent 2 round/return trips you made with your e-bike. A round/return trip is leaving from home and returning home again, with any number of stops along the way. Please provide your best estimate for all questions.

What date was your most recent trips made? [open text box]

What was the main purpose of this trip?

- Travel to work or school (commuting)
- Work-related travel (other than commuting)
- Personal shopping or errands (store, bank, health appointments, etc.)
- Social, recreational, or dining (visiting friends/family, religious activity, etc.)
- Exercise/leisure trip with no main destination
- Escort/chauffeur someone on their trip (to school, work, etc.)
- Other (please specify) [open text box]

About how many kilometres did you travel over the entire round trip? [sliders from 0 to 40]

Had you not made this purchase, what is the likelihood you would have used each of the following for this trip? Please click anywhere inside the bars to move the sliders. Numbers should add up to 100%. [sliders from 0 to 100%]

- Walking, running, or mobility device
- Conventional bike
- E-bike
- Car, truck, or motorcycle (private, shared, or taxi)
- Public transit (bus, ferry, etc.)
- Other [open text box]
- I would not have made the trip

Would the length or your trip have been different if it had been made using the most likely travel mode indicated above?

- Yes
- No
- Not applicable (I most likely would not have made my trip)

[Display this question if selected "Yes"]

How do you expect your total trip distance would have changed?

- -50% +50%

What date was your second-to-last trip made? [open text box]

What was the main purpose of this trip?

- Travel to work or school (commuting)
- Work-related travel (other than commuting)
- Personal shopping or errands (store, bank, health appointments, etc.)
- Social, recreational, or dining (visiting friends/family, religious activity, etc.)
- Exercise/leisure trip with no main destination
- Escort/chauffeur someone on their trip (to school, work, etc.)
- Other (please specify) [open text box]

About how many kilometres did you travel over the entire round trip? [sliders from 0 to 40]

Had you not made this purchase, what is the likelihood you would have used each of the following for this trip? Please click anywhere inside the bars to move the sliders. Numbers should add up to 100%. [sliders from 0 to 100%]

- Walking, running, or mobility device
- Conventional bike
- E-bike
- Car, truck, or motorcycle (private, shared, or taxi)
- Public transit (bus, ferry, etc.)
- Other [open text box]
- I would not have made the trip

Would the length or your trip have been different if it had been made using the most likely travel mode indicated above?

- Yes
- No
- Not applicable (I most likely would not have made my trip)

[Display this question if selected "Yes"]

How do you expect your total trip distance would have changed?

- -75%
- -50%
- -25%

- +25%
- +50%
- +75%

Section 5: Experienced incidents

While riding your e-bike, have you had an incident where you fell to avoid contact, caused someone to fall, or made contact with another person or vehicle?

- Yes
- No

[Display this question if selected "Yes"]

With which of the following other road users have you had an incident? Check all that apply.

- Pedestrian
- Cyclist or someone on a scooter, skates, or other wheeled device
- Car, truck, van, motorcycle or other registered motor vehicle
- Fixed object or other fall with no one else involved

[Display this question if selected "Yes"]

How serious was the most severe incident for you?

- Very serious (overnight hospital stay)
- Serious (hospital visit, not overnight stay)
- Minor (scrapes and bruises)
- No injury (property damage only)
- No injury, no property damage

Section 6: Travel matrix, commute, household and personal information, and closing

In the past month, on average how many days per week did you use each of the following modes of travel (for any purpose, including exercise or recreation)? [from 0 to 7]

- Walking, running, or mobility device
- Conventional bike
- E-bike
- Car, truck, or motorcycle (private, shared, or taxi)
- Public transit (bus, ferry, etc.)
- Other

In the past month, on average how many kilometers per day, on days used, did you travel with each of the following modes of travel, on days that you used them (for any purpose, including exercise or recreation)? [sliders from 0 to 50]

- Walking, running, or mobility device
- Conventional bike
- E-bike
- Car, truck, or motorcycle (private, shared, or taxi)
- Public transit (bus, ferry, etc.)
- Other

How comfortable would you feel cycling on your own in each of the following situations? [Very uncomfortable, somewhat uncomfortable, somewhat comfortable, very comfortable]

- On local neighbourhood streets with little traffic and low speeds
- On major streets that have bike lanes separated from traffic with a physical barrier
- On major streets that have a painted bike lane with no physical barrier

Did you take a course on cycling skills or safety in the past 12 months?

- Yes
- No

If you commute to work or school, what are the first 3 digits of the postal code (or other location identifier) for the place to which you most often commute?

- I do not commute to work/school
- I commute to work (please enter the first 3 digits of the postal code below) [open text box]

[Display this question if selected "I commute to work"]

In the past month, what modes of travel did you use to get to work or school? Please rank from most to least often used by dragging and dropping your selections into the box. Modes used:

- Walking, running, or mobility device
- Conventional bike
- E-bike
- Car, truck, or motorcycle (private, shared, or taxi)
- Public transit (bus, ferry, etc.)
- Other

This last page of questions about you and your household shows the responses you provided in the Part 1 survey. Please review the answers you provided in the Part 1 survey.

[The responses to demographics questions provided in Wave 1 questionnaire presented to participants here]

Is this information still correct?

- Yes
- No I need to update some answers

[Display this question if selected "No - I need to update some answers"]

- Please select the questions you would like to update. Check all that apply.
- What are the first 3 digits of your home postal code?
- How many adults, including yourself, are living in your household?
- How many children are living in your household?

- How many registered and insured motor vehicles does your household have?
- How many conventional bikes?
- How many e-bikes?
- What is your household dwelling type?
- Where do you normally park your bikes(s)?
- Do you have any difficulty walking, using stairs, or doing other physical activities?
- Do you have a driver's license?

[Questions selected above were presented again for participants to update their answers]

Have there been any other changes in your life situation that have significantly affected your travel habits? If so, please describe. [open text box]

Thank you for participating. The survey is now complete. Do you have any comments or clarifications about the information you provided in this survey? [open text box]

This survey was Part 2 of a 3-part study designed to investigate the effects of e-bike purchases on travel behaviour over time. Part 3 is another follow-up survey that will ask about changes from the responses you have given here in 9 more months. Your continued participation in the last part of the study will be essential to the value of your responses. If you select "I agree" below, an invitation email for the next survey will be sent to you in 9 months, with up to 2 reminders. You will not be obligated to complete the survey, and can withdraw at any time. Your email address will not be shared or used for any other purpose.

Do we have your permission to contact you for the follow-up survey in 9 months?

- I agree to be contacted
- I disagree I do not wish to be contacted about the next part of the survey

Please enter your email address. Your email will not be used for any other purposes. [open text box]

Appendix B.3. Wave 3 Questionnaire

[The Wave 3 questionnaire was materially the same as the Wave 2 questionnaire. In addition, the following four questions were added to section 6]

Which of the following best describes your attitude towards cycling?

- No way, no how
- Interested but concerned
- Enthused and confident
- Strong and fearless

• I don't know/Prefer not to answer

To what extent does your annual household income satisfy your household's needs?

- Very well
- Well
- Not so well
- Not at all
- I don't know/Prefer not to answer

Do you consent to be contacted in 1 to 5 years for a possible future follow-up study on longer-term cycling impacts?

- Yes, I consent to be contacted
- No, I do not wish to be contacted

[OPTIONAL] Reflecting on your past year of e-bike ownership, is there anything else you would like to share about the benefits of owning an e-bike or the obstacles you encountered using it? [open text box]