***North American Micromobility Panel***

***Online Initial Survey***

***(Survey draft - last updated December, 2019)***

Outline of the Survey:

|  |  |  |
| --- | --- | --- |
| Section | Topic | # of questions |
| A | Household Vehicles | 3-6 |
| B | Employment and Commute Activities | 3-10 |
| C | Your Current Travel Choices | 22-37 |
| D | Micromobility Service Use | 18 or 30 |
| E | Bike and E-scooter Perceptions | 27 |
| F | Physical Activity and Safety | 5 or 14+ |
| G | Some Background about Yourself | 11 |
|  | TOTAL | 89-135+ |

**Micromobility company email recruitment**

Embed the following within a normal email communication to users:

[Company Name] is helping the University of California, Davis study how micromobility is changing the way people get around. With your help, this research will provide information that city officials can use to better address the transportation needs of your community. Click HERE [survey link] To learn more about how you can participate and how you will be compensated for your time.

IMAGE TBD [survey link]

**UC Davis/Qualtrics introduction and consent**

Welcome to the North American Micromobility Panel (NAMP) study conducted by the Institute of Transportation Studies at the University of California, Davis. Our focus is to understand your daily mobility patterns, and the impact bike and/or scooter share have on those patterns to provide information that city officials can use to better address the transportation needs of your community.   
    
How long...    
You are being asked to join a research panel. In agreeing to participate we ask that you take an initial survey (**about 20 minutes),** three weekly follow-up surveys (**about** **5 minutes),** and that you agree to repeat these surveys approximately one year from now.  
  
What you get...     
If you complete the initial survey and the three weekly follow-up surveys, you will receive a $10 Amazon gift card. When you complete the second-year surveys you will receive an additional $20 Amazon gift card. At the end of the second year, you will also be entered into a drawing for a $500 Amazon gift card. Everyone can be entered in the drawing regardless of participation: if you prefer not to participate in the survey but want to be included in the drawing, please email dtfitch@ucdavis.edu.

In addition to the surveys, UC Davis is requesting access to your use of mobility service companies in your city. Specifically, UC Davis would like to collect information on the total number of trips you take, the total distance you travel, and the total frequency of app use for shared bikes, scooters, or ride-hailing (Uber/Lyft) on a weekly basis during the survey period (3 weeks). UC Davis will not receive any data on when or where you travel, only how much you travel and use mobility services.

By registering to participate in this study, you consent to having Qualtrics (the survey administrator) request your mobility service use data during the 3-week survey from the mobility service companies to summarize and transfer to UC Davis.  
    
Participation in research is completely voluntary. You are free to decline to take part in the project. You can decline to answer any questions and you can stop taking part in the project at any time. Whether or not you choose to participate, or answer any question, or stop participating in the project, there will be no penalty to you or loss of benefits to which you are otherwise entitled.   
    
Questions

If you have any questions about this research, please feel free to contact me.

Contact

Dillon Fitch

[dtfitch@ucdavis.edu](mailto:dtfitch@ucdavis.edu)

* I agree to participate in the North American Micromobility Panel and to allow mobility service companies to transfer weekly summaries of my use of their services to UC Davis for the 3-week survey periods
* I do not wish to participate

Please tell us which services you have used and the contact information you use for each service. This information will only be used by Qualtrics to request your aggregated use data be transferred to UC Davis. UC Davis will not receive this email address.

|  |  |  |  |
| --- | --- | --- | --- |
|  | I’ve never used this service | I’ve used this service | *Email* |
| 1. Uber | ☐0 | ☐1 | \_\_\_\_\_\_\_\_\_\_\_@\_\_\_\_\_\_\_\_\_\_\_ |
| 1. Lyft | ☐0 | ☐1 | \_\_\_\_\_\_\_\_\_\_\_@\_\_\_\_\_\_\_\_\_\_\_ |
| 1. JUMP | ☐0 | ☐1 | \_\_\_\_\_\_\_\_\_\_\_@\_\_\_\_\_\_\_\_\_\_\_ |
| 1. Lime | ☐0 | ☐1 | \_\_\_\_\_\_\_\_\_\_\_@\_\_\_\_\_\_\_\_\_\_\_ |
| 1. Bird | ☐0 | ☐1 | \_\_\_\_\_\_\_\_\_\_\_@\_\_\_\_\_\_\_\_\_\_\_ |
| 1. Spin | ☐0 | ☐1 | \_\_\_\_\_\_\_\_\_\_\_@\_\_\_\_\_\_\_\_\_\_\_ |
| 1. Local bike share | ☐0 | ☐1 | \_\_\_\_\_\_\_\_\_\_\_@\_\_\_\_\_\_\_\_\_\_\_ |

**Welcome to the North American Micromobility Panel**

Thank you for agreeing to participate in the North American Micromobility Panel. This initial survey will take approximately 20 minutes to complete.

BEFORE YOU PROCEEED… you need the following information:

* + - 1. the **year, make, and model** of all household vehicles (by “household” we mean “people who live together and share some financial resources” (housemates/roommates are usually **not** considered members of the same household)).
      2. The current **odometer reading (how many miles the car has been driven)** for each household vehicle.

Please take this survey once you have this information.

**Section A:**  **Household vehicles**

Learning more about the place where you live will help us better understand how you organize your activities and the way you travel.

Since you have your passenger vehicle information already, we’ll start there. By “vehicle” we mean car, SUV, minivan, pick-up truck, or motorcycle.

1. What best describes your **vehicle ownership** status? *Please check ALL**that apply*

☐1 I own my vehicle

☐2 I lease my vehicle

☐3 I have regular access to a vehicle for personal use through my job

☐4 I don’t own/lease my own vehicle but someone in my household owns/leases a vehicle

☐5 I don’t have a vehicle in **my household** but have **regular** access to one owned by somebody else (*e.g.* friend, roommate)

☐6 There is no **regular** access to a vehicle in my household

1. How many passenger vehicles are available in your household? \_\_\_\_\_\_\_\_\_\_\_vehicles [Display if A1 ∈ {1,2, 3,4,5}]
2. Please provide details of all passenger vehicles **available to your household**. Please specify Vehicle 1 as the vehicle you use most often. [Display if A2 >0)][Display number of rows = A2]

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| *Vehicle* | *Make* | *Model* | *Model Year* | *Fuel Type* | *Odometer reading (miles)* |
| *Example* | *Toyota* | *Prius* | *2009* | *Hybrid* | *52103* |
| 1. |  |  |  |  |  |
| 2. |  |  |  |  |  |
| 3. |  |  |  |  |  |
| 4. |  |  |  |  |  |

1. How many passenger vehicles has **your household sold/gotten rid of** during the **last 12 months** (*i.e.* because you replaced them with some other vehicle(s) and/or you reduced the number of vehicles in the household)?

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_vehicles

1. Please provide details of any passenger vehicles **your household sold/gotten rid of** during the **last 12 months**. [Display if (A4 > 0)][Display number of rows = A4]

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| *Vehicle* | *Make* | *Model* | *Model Year* | *Fuel Type* |
| *Example* | *Toyota* | *Camry* | *2009* | *Electric* |
| 1. |  |  |  |  |
| 2. |  |  |  |  |
| 3. |  |  |  |  |
| 4. |  |  |  |  |

1. Thinking of your entire household, how many … *(Please enter “0” if your answer*

*is “none” for any of the fields below)*

* 1. …bicycles does your household own? \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
  2. …electric assisted bicycles (e-bikes) does your household own? \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
  3. …electric scooters does your household own? \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

**Section B: Employment and Commute Activities**

In this section, we ask about your employment and commute activities to better understand your mandatory travel.

1. Are you currently a student?

|  |  |
| --- | --- |
| ☐0 Yes, full-time and travel to at least one school campus | ☐4 Yes, part-time and only take online courses |
| ☐1 Yes, part-time and travel to at least one school campus | ☐5 No |
| ☐2 Yes, full-time and only take online courses |  |

1. Which statements best describe your current employment situation?

|  |  |
| --- | --- |
| ☐0 I work full-time and commute to at least one workplace | ☐4 I am retired but still commute to at least one workplace |
| ☐1 I work full-time and never commute (work from home, work without fixed workplace) | ☐5 I am retired and don’t commute to a workplace |
| ☐2 I work part-time and commute to at least one workplace | ☐6 I do not currently work |
| ☐3 I work part-time and never commute (work from home, work without fixed workplace) | ☐7 I am permanently unable to work |

1. In a typical week, how many days…
   1. …do you **travel to work**? \_\_\_\_\_\_\_\_\_\_ days per week [Display if B2 ∈ {0,2,4}]
   2. …do you **travel to school**? \_\_\_\_\_\_\_\_\_\_ days per week [Display if B1 ∈ {0,1}]
   3. …do you **telecommute** and/or **work from home**? \_\_\_\_\_\_\_\_\_\_ days per week [Display if B2 ∈ {0,1,2,3,4,5}]
2. Knowing more about your neighborhood will help us put your travel choices and opinions in context. Please give your address or, if you prefer, click the red pin below, drag and drop it near your home.

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

If you travel to more than one work location on a regular basis, please answer the following questions thinking of the location to which you travel **most often***:* [Display 4 and 5 if B2 ∈ {0,2,4}]

1. Knowing more about where you work will help us understand the transportation options available to you. Please give the address or, if you prefer, click the red pin below, drag and drop near your **main work location**.

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

1. On a usual work day, tell us how you decide which travel modes to use for the day. Select all that apply before you leave your home in the morning. Only select those that have an impact on your travel mode decisions. For example, if you check the weather to decide to wear a jacket but not whether to take a car, please do not select “I check the weather”.

|  |  |
| --- | --- |
| ☐1 I don’t think about it because I do the same thing every work day [Restricted only choice] | ☐5 I check a micromobility app |
| ☐2 I check the weather | ☐6 I check a ride-hail app |
| ☐3 I check the traffic | ☐7 I check a transit app |
| ☐4 I talk to my spouse/roommate/household to negotiate car use | ☐8 Other: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ |

If you travel to more than one school location on a regular basis, please answer the following questions thinking of the location to which you travel **most often**: [Display 6 and 7 if B1 ∈ {0,1}]

1. Knowing more about where you work will help us understand the transportation options available to you. Please give the address or, if you prefer, click the red pin below, drag and drop near your **main school location**.

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

1. On a usual school day, tell us how you decide which travel modes to use for the day. Select all that apply before you leave your home in the morning. Only select those that have an impact on your travel mode decisions. For example, if you check the weather to decide to wear a jacket but not whether to take a car, please do not select “I check the weather”.

|  |  |
| --- | --- |
| ☐1 I don’t think about it because I do the same thing every school day [Restricted only choice] | ☐5 I check a micromobility app |
| ☐2 I check the weather | ☐6 I check a ride-hail app |
| ☐3 I check the traffic | ☐7 I check a transit app |
| ☐4 I talk to my spouse/roommate/household to negotiate car use | ☐8 Other: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ |

**Section C: Your Current Travel Choices**

The following questions ask how often you typically make trips using various means of transportation. Please read each question carefully. Your best guesses are fine! Please keep the following important points in mind:

* A private vehicle includes passenger car, SUV, minivan, pick-up truck and motorcycle.
* A trip is a movement from one place to another for any purpose by any means of travel.

1. Now, considering only your **commute trips to work and/or school**, please indicate how often you use each of the following means of transportation for such trips. *If you travel to both work and school, please report the trips to* ***both*** *destinations.* [Display if B1 ∈ {0,1} OR B2 ∈ {0,2,4}]

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
|  |  | | ***I use it…*** | | | | |
|  | *Not available* | *Available but I’ve never used it* | *Less than once a month* | *1-3 times a month* | *1-2 times a week* | *3-4 times a week* | *5 or more times a week* |
| 1. Private vehicle, alone | ☐0 | ☐1 | ☐2 | ☐3 | ☐4 | ☐5 | ☐6 |
| 1. Private vehicle, with others | ☐0 | ☐1 | ☐2 | ☐3 | ☐4 | ☐5 | ☐6 |
| 1. Work-/school-provided bus or shuttle | ☐0 | ☐1 | ☐2 | ☐3 | ☐4 | ☐5 | ☐6 |
| 1. Public bus | ☐0 | ☐1 | ☐2 | ☐3 | ☐4 | ☐5 | ☐6 |
| 1. Light rail/tram/subway/commuter train | ☐0 | ☐1 | ☐2 | ☐3 | ☐4 | ☐5 | ☐6 |
| 1. Ride-hailing (UberX, Lyft) | ☐0 | ☐1 | ☐2 | ☐3 | ☐4 | ☐5 | ☐6 |
| 1. Shared ride-hailing (UberPOOL, Lyft Share) | ☐0 | ☐1 | ☐2 | ☐3 | ☐4 | ☐5 | ☐6 |
| 1. Personally owned conventional bike | ☐0 | ☐1 | ☐2 | ☐3 | ☐4 | ☐5 | ☐6 |
| 1. Personally owned e-bike | ☐0 | ☐1 | ☐2 | ☐3 | ☐4 | ☐5 | ☐6 |
| 1. Personally owned e-scooter | ☐0 | ☐1 | ☐2 | ☐3 | ☐4 | ☐5 | ☐6 |
| 1. Shared conventional bike | ☐0 | ☐1 | ☐2 | ☐3 | ☐4 | ☐5 | ☐6 |
| 1. Shared e-bike | ☐0 | ☐1 | ☐2 | ☐3 | ☐4 | ☐5 | ☐6 |
| 1. Shared e-scooter | ☐0 | ☐1 | ☐2 | ☐3 | ☐4 | ☐5 | ☐6 |
| 1. Walk | ☐0 | ☐1 | ☐2 | ☐3 | ☐4 | ☐5 | ☐6 |
| 1. Other (please specify): \_\_\_\_\_\_\_\_\_\_\_\_\_ | ☐0 | ☐1 | ☐2 | ☐3 | ☐4 | ☐5 | ☐6 |

1. Consider your **leisure/social trips/shopping and all other trips** (*e.g.* social outings, going to a restaurant/bar, visiting friends or family, grocery shopping, other errands). Please indicate how often you typically make such trips using each of the following means of travel:

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
|  |  | | ***I use it…*** | | | | |
|  | *Not available* | *Available but I’ve never used it* | *Less than once a month* | *1-3 times a month* | *1-2 times a week* | *3-4 times a week* | *5 or more times a week* |
| 1. Private vehicle, alone | ☐0 | ☐1 | ☐2 | ☐3 | ☐4 | ☐5 | ☐6 |
| 1. Private vehicle, with others | ☐0 | ☐1 | ☐2 | ☐3 | ☐4 | ☐5 | ☐6 |
| 1. Work-/school-provided bus or shuttle | ☐0 | ☐1 | ☐2 | ☐3 | ☐4 | ☐5 | ☐6 |
| 1. Public bus | ☐0 | ☐1 | ☐2 | ☐3 | ☐4 | ☐5 | ☐6 |
| 1. Light rail/tram/subway/commuter train | ☐0 | ☐1 | ☐2 | ☐3 | ☐4 | ☐5 | ☐6 |
| 1. Ride-hailing (UberX, Lyft) | ☐0 | ☐1 | ☐2 | ☐3 | ☐4 | ☐5 | ☐6 |
| 1. Shared ride-hailing (UberPOOL, Lyft Share) | ☐0 | ☐1 | ☐2 | ☐3 | ☐4 | ☐5 | ☐6 |
| 1. Personally owned conventional bike | ☐0 | ☐1 | ☐2 | ☐3 | ☐4 | ☐5 | ☐6 |
| 1. Personally owned e-bike | ☐0 | ☐1 | ☐2 | ☐3 | ☐4 | ☐5 | ☐6 |
| 1. Personally owned e-scooter | ☐0 | ☐1 | ☐2 | ☐3 | ☐4 | ☐5 | ☐6 |
| 1. Shared conventional bike | ☐0 | ☐1 | ☐2 | ☐3 | ☐4 | ☐5 | ☐6 |
| 1. Shared e-bike | ☐0 | ☐1 | ☐2 | ☐3 | ☐4 | ☐5 | ☐6 |
| 1. Shared e-scooter | ☐0 | ☐1 | ☐2 | ☐3 | ☐4 | ☐5 | ☐6 |
| 1. Walk | ☐0 | ☐1 | ☐2 | ☐3 | ☐4 | ☐5 | ☐6 |
| 1. Other (please specify): \_\_\_\_\_\_\_\_\_\_\_\_\_ | ☐0 | ☐1 | ☐2 | ☐3 | ☐4 | ☐5 | ☐6 |

1. Please indicate if you have any physical or other personal conditions that **prevent or limit** you from…

|  |  |  |  |
| --- | --- | --- | --- |
|  | ***No limitation*** | ***Limits how often or how long*** | ***Absolutely prevents*** |
| 1. Driving | ☐1 | ☐2 | ☐3 |
| 1. Taking public transportation | ☐1 | ☐2 | ☐3 |
| 1. Walking | ☐1 | ☐2 | ☐3 |
| 1. Riding a bike | ☐1 | ☐2 | ☐3 |
| 1. Riding an e-scooter | ☐1 | ☐2 | ☐3 |

We would now like to obtain some information about your **out-of-town travel** (for vacations, business trips, visiting relatives, etc.). By out-of-town travel we mean trips that are at least a **3 hour drive/train from your home and/or which involves travel by airplane**. Please do not include commute trips, and count each complete round-trip as ONE out-of-town trip.

1. How many out-of-town trips have you made **over the past 12 months**?

Please write "0"; if your answer is "none"; for any of the fields below.

|  |  |  |  |
| --- | --- | --- | --- |
|  | Trips by car | Trips by airplane | Trips by other travel means |
| a. Number of trips for **leisure purposes** during the last 12 months | \_\_\_\_\_\_\_\_\_ | \_\_\_\_\_\_\_\_\_ | \_\_\_\_\_\_\_\_\_ |
| b. Number of trips for **business purposes** during the last 12 months | \_\_\_\_\_\_\_\_\_ | \_\_\_\_\_\_\_\_\_ | \_\_\_\_\_\_\_\_\_ |

**Section D: Recent Micromobility Service Use**

1. When did you first use micromobility services? Your best guess is fine: \_\_\_\_\_\_\_\_\_Month \_\_\_\_\_\_\_\_Year
2. How do you pay for micromobility services? Please select all that apply.

|  |  |
| --- | --- |
| ☐0 Pay as I go | ☐2 Student monthly subscription |
| ☐1 Monthly subscription | ☐3 Other reduced monthly subscription |

1. How has your use of micromobility services **caused you to change your travel options**?

|  |  |  |  |
| --- | --- | --- | --- |
|  | **Sell / Get rid of / Stop buying or leasing** | **Buy** | **No Effect** |
| 1. Household vehicle | ☐1 | ☐2 | ☐3 |
| 1. Transit pass | ☐1 | ☐2 | ☐3 |
| 1. Personal conventional bike | ☐1 | ☐2 | ☐3 |
| 1. Personal e-bike | ☐1 | ☐2 | ☐3 |
| 1. Personal e-scooter | ☐1 | ☐2 | ☐3 |
| 1. Ride-hail subscription | ☐1 | ☐2 | ☐3 |

We’d like to learn more about **your most recent use of micromobility service use.**

1. Considering the **last trip** you made using a **shared bike**, please answer the following questions: [Display if C1k >1 OR C1l >1 OR C2k >1 OR C2l >1]

|  |  |
| --- | --- |
| * 1. When did you make this trip? | ☐0 Weekday  ☐1 Weeknight (**excluding** Friday night)  ☐2 Weekend daytime  ☐3 Weekend night time (**including** Friday night) |
| * 1. Please give the origin and destination of this trip. Or, if you prefer, click the red pin below, drag and drop near the origin and destination of the trip. | \_\_\_\_\_\_\_\_\_\_\_\_\_\_ |
| * 1. What was the purpose of this trip? *Please check ALL that apply.* | ☐0 Work/school-related  ☐1 Shopping/errands  ☐2 Social/recreational  ☐3 Just to enjoy the ride/try the new service  ☐4 Other (please, specify): \_\_\_\_\_\_ |
| * 1. Were you trying to reach a destination, or was this a round-trip? [Display if D4c ∈ {2,3,4}] | ☐0 Reach a destination  ☐1 Round-trip |
| * 1. How far did you have to walk to access this shared bike? | ☐0 Less than a minute  ☐1 1 to 5 minutes  ☐2 6 to 10 minutes  ☐3 More than 10 minutes |
| * 1. Did you use the shared bike in combination with another travel mode? | ☐0 No, I used the shared bike as the only mode for the entire trip  ☐1 Yes, with light rail/street car/subway  ☐2 Yes, with public bus  ☐3 Yes, with commuter train  ☐4 Yes, with private car  ☐5 Yes, other (please, specify): \_\_\_\_\_\_ |
| * 1. Why did you use a shared bike for your trip? *Please check ALL that apply.* | ☐0 No need to park/parking was expensive or scarce  ☐1 To do more physical exercise  ☐2 To save time  ☐3 To save money  ☐4 Public transit was not available  ☐5 Public transit was not convenient  ☐6 Private vehicle was not available  ☐7 To have fun  ☐8 Other (please specify): \_\_\_\_\_\_\_\_\_\_\_\_\_ |
| * 1. How would you have made your trip if the shared bike was not available? *Please check ALL that apply.* | ☐0 None, I wouldn’t have made the trip [Restricted only choice]  ☐1 Drive a private vehicle  ☐2 Ride as passenger in a private vehicle  ☐3 Ride public transit  ☐4 Use ride-hailing (Uber, Lyft) or taxi  ☐5 Use my own bike or scooter  ☐6 Use a shared e-scooter  ☐7 Walk  ☐8 Other (please, specify): \_\_\_\_\_\_ |
| * 1. Which of the following best describes your use of a shared bike for this trip? *Please check ALL that apply.* | ☐0 I decided to use a shared bike at the last minute without any planning in advance.  ☐1 My using the shared bike affected my use of a car for other trips during the day  ☐2 My using the shared bike affected my use of transit (bus and/or train) for other trips during the day |
| * 1. How did this shared bike trip influence your time spent in a car for other trips during the day? [Display if D4i ∈ {1,2}] | ☐0 Decreased by more than 20 minutes  ☐1 Decreased by 1 to 20 minutes  ☐2 Increased by 1 to 20 minutes  ☐3 Increased by more than 20 minutes |
| * 1. How did your shared bike trip influence your time spent on transit (bus and train) for other trips during the day? | ☐0 Decreased by more than 20 minutes  ☐1 Decreased by 1 to 20 minutes  ☐2 Increased by 1 to 20 minutes  ☐3 Increased by more than 20 minutes |

1. Considering the **last trip** you made using a **shared e-scooter**, please answer the following questions: [Display if C1m >1 OR C2m >1]

|  |  |
| --- | --- |
| * 1. When did you make this trip? | ☐0 Weekday  ☐1 Weeknight (**excluding** Friday night)  ☐2 Weekend daytime  ☐3 Weekend night time (**including** Friday night) |
| * 1. Please give the origin and destination of this trip. Or, if you prefer, click the red pin below, drag and drop near the origin and destination of the trip. | \_\_\_\_\_\_\_\_\_\_\_\_\_\_ |
| * 1. What was the purpose of this trip? *Please check ALL that apply.* | ☐0 Work/school-related  ☐1 Shopping/errands  ☐2 Social/recreational  ☐3 Just to enjoy the ride/try the new service  ☐4 Other (please, specify): \_\_\_\_\_\_ |
| * 1. Were you trying to reach a destination, or was this a round-trip? [Display if D5c ∈ {2,3,4}] | ☐0 Reach a destination  ☐1 Round-trip |
| * 1. How far did you have to walk to access this shared e-scooter? | ☐0 Less than a minute  ☐1 1 to 5 minutes  ☐2 6 to 10 minutes  ☐3 More than 10 minutes |
| * 1. Did you use the shared e-scooter in combination with another travel mode? | ☐0 No, I used the shared bike as the only mode for the entire trip  ☐1 Yes, with light rail/street car/subway  ☐2 Yes, with public bus  ☐3 Yes, with commuter train  ☐4 Yes, with private car  ☐5 Yes, other (please, specify): \_\_\_\_\_\_ |
| * 1. Why did you use a shared e-scooter for your trip? *Please check ALL that apply.* | ☐0 No need to park/parking was expensive or scarce  ☐1 To do more physical exercise  ☐2 To save time  ☐3 To save money  ☐4 Public transit was not available  ☐5 Public transit was not convenient  ☐6 Private vehicle was not available  ☐7 To have fun  ☐8 Other (please specify): \_\_\_\_\_\_\_\_\_\_\_\_\_ |
| * 1. How would you have made your trip if the shared e-scooter was not available? *Please check ALL that apply.* | ☐0 None, I wouldn’t have made the trip [Restricted only choice]  ☐1 Drive a private vehicle  ☐2 Ride as passenger in a private vehicle  ☐3 Ride public transit  ☐4 Use ride-hailing (Uber, Lyft) or taxi  ☐5 Use my own bike or scooter  ☐6 Use a shared e-scooter  ☐7 Walk  ☐8 Other (please, specify): \_\_\_\_\_\_ |
| * 1. Which of the following best describes your use of a shared e-scooter for this trip? *Please check ALL that apply.* | ☐0 I decided to use a shared e-scooter at the last minute without any planning in advance.  ☐1 My using the shared e-scooter affected my use of a car for other trips during the day  ☐2 My using the shared e-scooter affected my use of transit (bus and/or train) for other trips during the day |
| * 1. How did this shared e-scooter trip influence your time spent in a car for other trips during the day? [Display if D5i ∈ {1,2}] | ☐0 Decreased by more than 20 minutes  ☐1 Decreased by 5 to 20 minutes  ☐2 Neither increased nor decreased by more than 5 minutes  ☐3 Increased by 5 to 20 minutes  ☐3 Increased by more than 20 minutes |
| * 1. How did your shared e-scooter trip influence your time spent on transit (bus and train) for other trips during the day? | ☐0 Decreased by more than 20 minutes  ☐1 Decreased by 5 to 20 minutes  ☐2 Neither increased nor decreased by more than 5 minutes  ☐3 Increased by 5 to 20 minutes  ☐3 Increased by more than 20 minutes |

**Section E: Bike and E-scooter Perceptions**

1. Please choose the response that most closely fits your reaction to each of the following statements.

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
|  | ***Strongly disagree*** | ***Somewhat disagree*** | ***Neither agree nor disagree*** | ***Somewhat agree*** | ***Strongly agree*** |
| 1. Riding a bike is fun. | ☐1 | ☐2 | ☐3 | ☐4 | ☐5 |
| 1. Riding a bike is enjoyable. | ☐1 | ☐2 | ☐3 | ☐4 | ☐5 |
| 1. Riding a bike is boring. | ☐1 | ☐2 | ☐3 | ☐4 | ☐5 |
| 1. Riding a bike is pleasant. | ☐1 | ☐2 | ☐3 | ☐4 | ☐5 |
| 1. I feel safe from cars when bicycling in town. | ☐1 | ☐2 | ☐3 | ☐4 | ☐5 |
| 1. I feel comfortable around cars when bicycling in town. | ☐1 | ☐2 | ☐3 | ☐4 | ☐5 |
| 1. I feel anxious around cars when bicycling in town. | ☐1 | ☐2 | ☐3 | ☐4 | ☐5 |
| 1. I get stressed by cars when bicycling in town. | ☐1 | ☐2 | ☐3 | ☐4 | ☐5 |
| 1. I have the time to bicycle for day-to-day travel. | ☐1 | ☐2 | ☐3 | ☐4 | ☐5 |
| 1. If I really wanted to, I could bicycle more frequently. | ☐1 | ☐2 | ☐3 | ☐4 | ☐5 |
| 1. I can bicycle to many places I need to go. | ☐1 | ☐2 | ☐3 | ☐4 | ☐5 |
| 1. There is good bike infrastructure where I need to go. | ☐1 | ☐2 | ☐3 | ☐4 | ☐5 |
| 1. Many people I know bicycle regularly. | ☐1 | ☐2 | ☐3 | ☐4 | ☐5 |
| 1. Many people I know think I should bicycle. | ☐1 | ☐2 | ☐3 | ☐4 | ☐5 |

1. Please choose the response that most closely fits your reaction to each of the following statements.

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
|  | ***Strongly disagree*** | ***Somewhat disagree*** | ***Neither agree nor disagree*** | ***Somewhat agree*** | ***Strongly agree*** |
| 1. Riding an e-scooter is fun. | ☐1 | ☐2 | ☐3 | ☐4 | ☐5 |
| 1. Riding an e-scooter is enjoyable. | ☐1 | ☐2 | ☐3 | ☐4 | ☐5 |
| 1. Riding an e-scooter is boring. | ☐1 | ☐2 | ☐3 | ☐4 | ☐5 |
| 1. Riding an e-scooter is pleasant. | ☐1 | ☐2 | ☐3 | ☐4 | ☐5 |
| 1. I feel safe from cars when riding an e-scooter in town. | ☐1 | ☐2 | ☐3 | ☐4 | ☐5 |
| 1. I feel comfortable around cars when riding an e-scooter in town. | ☐1 | ☐2 | ☐3 | ☐4 | ☐5 |
| 1. I feel anxious around cars when riding an e-scooter in town | ☐1 | ☐2 | ☐3 | ☐4 | ☐5 |
| 1. I get stressed by cars when riding an e-scooter in town. | ☐1 | ☐2 | ☐3 | ☐4 | ☐5 |
| 1. I have the time to use an e-scooter for day-to-day travel. | ☐1 | ☐2 | ☐3 | ☐4 | ☐5 |
| 1. If I really wanted to, I could use an e-scooter more frequently. | ☐1 | ☐2 | ☐3 | ☐4 | ☐5 |
| 1. I can use an e-scooter to get to many places I need to go. | ☐1 | ☐2 | ☐3 | ☐4 | ☐5 |
| 1. Many people I know regularly use e-scooters. | ☐1 | ☐2 | ☐3 | ☐4 | ☐5 |
| 1. Many people I know think I should use e-scooters. | ☐1 | ☐2 | ☐3 | ☐4 | ☐5 |

**Section F: Physical Activity and Safety**

In this section we want to learn about your physical activity and your safety.

1. How many **days** in the **last 7 days** did you exercise hard enough to breathe somewhat harder than normal for **more than 10 minutes**?

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_days

1. How has your use of shared bikes influenced your physical activity? Please consider walking and bicycling a part of your physical activity. [Display if C1k >1 OR C1l >1 OR C2k >1 OR C2l >1]

|  |
| --- |
| ☐1 Increased |
| ☐2 Neither increased nor decreased |
| ☐3 Decreased |

1. How has your use of shared e-scooters influenced your physical activity? Please consider walking and bicycling a part of your physical activity. [Display if C1m >1 OR C2m >1]

|  |
| --- |
| ☐1 Increased |
| ☐2 Neither increased nor decreased |
| ☐3 Decreased |

1. How many walk, bike, e-bike, or e-scooter collisions have you had in the last **3 years?** Please write "0"; if your answer is "none".

\_\_\_\_\_\_\_\_\_\_\_\_\_collisions

1. [For each collision reported in F5, present questions F6]

|  |  |
| --- | --- |
| 1. How were you traveling immediately before your collision? | ☐0 Walking  ☐1 Personally owned conventional bike  ☐2 Personally owned e-bike  ☐3 Personally owned e-scooter  ☐4 Shared conventional bike  ☐5 Shared e-bike  ☐6 Shared e-scooter |
| 1. What was your collision with? | ☐0 Car, moving  ☐1 Car, parked  ☐2 Truck  ☐3 Bus  ☐4 Bike or e-bike  ☐5 E-scooter  ☐6 Pedestrian  ☐6 Animal  ☐6 Debris or other temporary obstacles  ☐6 Other (please specify) \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ |
| 1. Where were you during your collision? | ☐0 Street (no bike lane)  ☐1 Bike lane  ☐2 Protected bike lane  ☐3 Off-street path/pedestrian path  ☐4 Sidewalk  ☐5 Other (please specify) \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ |
| 1. Were you injured during your collision? | ☐0 No  ☐1 Yes, but didn’t receive treatment  ☐2 Yes, received treatment but was not hospitalized  ☐3 Yes, was hospitalized |
| 1. Where you wearing a helmet during your collision? | ☐0 No  ☐1 Yes |
| 1. What were the light conditions during the collision? | ☐0 Darkness  ☐1 Twilight  ☐2 Light |
| 1. Was your collision reported to the police? | ☐0 No  ☐1 Yes |
| 1. Was anyone involved in the collision impaired from alcohol or drugs? | ☐0 No  ☐1 Yes |
| 1. Is there anything else you would like to say about the collision that could be useful to improve safety? | ☐0 No  ☐1 Yes (please specify) \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ |

**Section G: Some Background about Yourself**

This is the last section of the survey! To help us project the responses from this small sample to the population as a whole, we’d like to ask you a few background questions.

1. In what year were you born?\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ year (*e.g.* 1975)
2. What is your gender identity?

|  |  |  |
| --- | --- | --- |
| ☐1 Woman | ☐2 Man | ☐3 Prefer to self-describe:\_\_\_\_\_\_\_\_\_\_\_ |

1. Who lives with you currently?*Please check ALL**that apply.*

☐1 Husband/wife/partner ☐4 Some other relative (*e.g.* siblings, in-laws)

☐2 Child(ren)/grandchild(ren) ☐5 Other non-household member(s) (*e.g.* roommates)

☐3 Parent(s)/grandparent(s) ☐0 I live alone

1. Thinking of your entire household, **including** yourself, how many… *(Please enter “0” if your answer*

*is “none” for any of the fields below)*

1. …people live in your household (don’t include roommates or others with   
    whom you don’t share financial resources)? \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
2. …people under the age of 15 live in your household? \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
3. …people between the ages of 15 and 18 live in your household? \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
4. …employed persons live in your household? \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
5. …people in your household have a driver’s license \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
6. Please check the category that contains your approximate annual *household* income before taxes. *Remember, by “household” we mean “people who live together and share at least some financial resources” (housemates/roommates are usually* ***not*** *considered members of the same household).*

|  |  |  |
| --- | --- | --- |
| ☐1 Less than $10,000 | ☐4 $50,000 to $74,999 | ☐7 $125,000 to $149,999 |
| ☐2 $10,000 to $24,999 | ☐5 $75,000 to $99,999 | ☐8 $150,000 to $174,999 |
| ☐3 $20,000 to $49,999 | ☐6 $100,000 to $124,999 | ☐9 $175,000 or more |

1. Which of the following best describes you?

☐1 Paying bills is a constant struggle and worry

☐2 Paying bills is tough and on my mind, but I get by

☐3 My monthly bills are affordable and I don’t worry too much about paying them

☐4 I never worry about my monthly bills

☐5 Prefer not to answer

1. At what age did you get your driver’s license? \_\_\_\_\_\_\_\_\_\_\_ (☐0 I don’t have a license)
2. What is your educational background? *Please check the highest level attained.*

|  |  |  |
| --- | --- | --- |
| ☐1 Some grade/high school | ☐3 Some college/technical school | ☐5 Graduate degree(s) (e.g. MS, PhD, MBA) |
| ☐2 Completed high school or GED | ☐4 Bachelor’s degree(s) | ☐6 Professional degree(s) (e.g. JD, MD, DDS) |

1. Do you currently have any student loans that you need to pay off? ☐1 Yes ☐0 No
2. Where were you born?

☐1 United States or U.S. territory (please provide the name of state/territory): \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

☐2 Other country (please specify): \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

1. Are you Hispanic or Latino/a? ☐1 Yes ☐0 No
2. How would you describe yourself? *Please check ALL that apply to you.*

|  |  |  |
| --- | --- | --- |
| ☐1 Asian or Pacific Islander | ☐3 Native American | ☐5 Other (please specify):\_\_\_\_\_\_\_\_ |
| ☐2 Black/African American | ☐4 White/Caucasian |  |

**Thank you for your time!**

Please provide an email address for Qualtrics to be able to communicate with you for the follow-up surveys and for UC

Davis to provide you payment through an emailed Amazon gift card at the end of the three weeks. UC Davis will not be

able to link your email to any of your responses of mobility service user data.

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_@\_\_\_\_\_\_\_\_\_\_\_\_

**We will send the follow-up survey next week!**