



WHOLETRAVELER TRANSPORTATION BEHAVIOR STUDY

PURPOSE AND BACKGROUND

You are being asked to participate in a research study lead by Anna Spurlock, PhD at Lawrence Berkeley National Laboratory (LBNL). The Department of Energy (DOE) sponsors this study. It is a part of the DOE SMART (Systems and Modeling for Accelerated Research in Transportation) Mobility Initiative.

The purpose of the WholeTraveler study is to learn about four main topics. First, what types of transportation options people living in the Bay Area are using. Second, why those choices may change over time. Third, opinions about newer technologies like electric vehicles, apps like Uber and Lyft, online shopping, and self-driving cars. Finally, how significant life circumstances (moving, finishing school, living with a partner or spouse, having children, etc.) and personality characteristics relate to preferences for different transportation options. This information will be used to improve transportation system models. It may also inform policies to improve transportation system efficiency.

PROCEDURES: If you agree to be in this study, the following will happen:

The study happens in two phases. You are invited to take part in both. Both phases are entirely voluntary. However, if you do not complete Phase 1 you cannot participate in Phase 2.

Phase 1: The first phase is an online survey. If you choose to participate you will answer questions about: your transportation decisions, your life history, and some other characteristics. The survey will take about 20 minutes to complete. You may stop part way through and return to complete the survey at any time. Resource Systems Group, INC (RSG) is running the online survey for LBNL. RSG is very experienced in transportation survey research.

Phase 2: If you complete the online survey you will be offered the option to join the second phase of the study. In the second phase you will follow some simple steps to provide a week's worth of your GPS location data. Google collects these data using your smartphone while you go about your normal day-to-day activities. These Google Location History data are collected through any Google smartphone apps linked to your Google Account (such as Google Maps). The research team will not have direct access to your smartphone in any way. First, you will follow simple set-up steps. Then at the end of a week you will download a single file with your data, confirm the date range of data you are willing to submit, and upload the data. You will also be asked to answer a short set of questions about the transportation options you used during the selected week. All told, this will take 10-30 minutes.

PARTICIPANT REQUIREMENTS

You must be a San Francisco Bay Area resident to participate. In addition you must be 18 years or older. To respond to the Phase 1 online survey you must have Internet access and be able to use a laptop or desktop computer. If you choose to participate in Phase 2 of the study, you must additionally have an iOS or Android smartphone that you do not share with any other individual. Finally, you must either have or be willing to obtain a Google Account and have the Google Maps app installed on your smartphone.

RISKS/DISCOMFORTS

If you take the online survey, your survey responses will be linked to your residential address. Because of this there is a risk that your identity could be linked to the information you provide. If you choose to take part in the second phase of the study there could be additional risks. In particular, through your GPS location data your common destinations, transportation patterns, or daily schedule could be observed. The primary risk to you would be unauthorized access to your data. There may also be other risks that we cannot predict.

Steps will be taken to ensure data security in order to minimize these risks. Data transfer and storage will follow industry best practices for security. In addition, access to the survey and GPS location-linked data will be highly controlled. An LBNL cyber security specialist has approved all data transfer, storage and access protocols.

BENEFITS

We do not anticipate that you will experience any direct benefits from taking part in the study other than the incentive payments described below. There is a potential benefit to society. In particular, the information we collect may inform policies to improve transportation system efficiency.

FINANCIAL CONSIDERATIONS

If you complete the Phase 1 online survey you will receive a \$10 payment in the form of an Amazon Gift Card. The gift card will be emailed to you. If there are questions in the survey that you do not want to answer you may skip them. However, if you do not answer any required questions marked with an asterisk (*) you will not receive the payment.

If you submit one week's worth of Google Location History data for the second phase of the study, you will receive an additional \$20 payment. This payment will also be in the form of an emailed Amazon Gift Card.

There will be no cost to you to participate in this study.

CONFIDENTIALITY

We will do everything we can to keep information about you protected. Any of the location-linked data you provide to us will only be accessible by authorized personnel. These data will only be transferred using encrypted secure methods. These data will be stored on a dedicated secure server at LBNL. These original address- and location-linked data will only be maintained for use in this study. Addresses, email addresses, and other location data will be deleted once the study is completed.

A de-identified version of the dataset will be shared with other researchers contributing to the SMART Mobility Initiative. This de-identified version will be stripped of all email address, residential address, common destination, and GPS location information so that all survey responses are anonymous. It will include the Census Block Group associated with: your residential address, any common destinations you indicate in the survey, and any GPS locations in the data from Phase 2. A Census Block Group is a geographic area that generally includes between 600 to 3000 residents. Unaltered responses to all other questions will be included in the de-identified version of the data. This de-identified version of the data will be made publicly available through the Transportation Secure Data Center (TSDC) at the National Renewable Energy Laboratory. You can find out more about the TSDC here : <https://www.nrel.gov/transportation/secure-transportation-data.html>.

Results from analyses of the data may be published, but only in aggregated form. Your individual data will not be published.

If you participate in Phase 2 of this study and choose to provide your Google Location History data, be aware that Google collects those data and uses them for their own purposes. Google does not share those data with any companies, organizations or individuals outside of Google except under specific circumstances (with consent, with domain administrators, for external processing, or for legal reasons). While you need to allow Google to store your Location History over the course of a week if you want to participate in Phase 2 of this study, you can delete your Location History in-part or entirely, and turn off the preferences allowing Google to access or store your location, at any time. We will provide you with instructions for how to do this after completing Phase 2. More information about Google's privacy policy can be found here : https://static.googleusercontent.com/media/www.google.com/en/intl/en/policies/privacy/google_privacy_policy_en.pdf.

QUESTIONS

Any further questions you have about taking part in this study will be answered by:

Dr. Anna Spurlock at (510) 495-2072 or wholetraveler@lbl.gov.

Any questions you have about technical aspects of the Phase 1 online survey (login, website, or technical difficulty responding to any of the questions) will be answered by:

Resource Systems Group, INC (RSG) at wholetraveler@rsginc.com.

Any questions you have about your rights as a research subject will be answered by:

Lawrence Berkeley Lab Human Subjects Committee at (510) 486-5399

PARTICIPATION IN RESEARCH IS VOLUNTARY

You have the right to not take part in this study or to stop taking part at any time. If you would like a copy of this consent form to keep, you can print it out now, or access it at wholetraveler.lbl.gov at any time that is convenient. If you wish to participate, you should click "Start the Survey," below

AUTHORIZATION

I understand that by clicking "Start the Survey," below I am stating that: I have read this consent form; all of the questions I asked have been answered to my satisfaction; and I volunteer to participate in this research. I understand that my participation signifies consent for the researchers to use any data I provide as described above.

If you were given a password for this survey, please enter it below and click the "Start the Survey" button...

e.g., password123

Start the Survey



WholeTraveler

TRANSPORTATION BEHAVIOR STUDY

Welcome to the WholeTraveler Transportation Behavior Study online survey. The survey has four sections. Throughout this survey, please use the following definitions for the terms "Household" and "Vehicle":

- **Household:** people you live with and regularly coordinate transportation with (e.g., carpooling, purchasing/sharing a car, planning commute schedule).
- **Vehicle:** car, truck, SUV, van, or other passenger vehicle. Motorcycles or electric bicycles are not considered vehicles for the purposes of this survey.

Required questions are indicated with an asterisk "**".

Please click "Next" to begin.

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WholeTraveler
TRANSPORTATION BEHAVIOR STUDY

Section 1: In this section we will ask you questions about your current transportation needs and choices.

Please click "Next" to continue.

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QUESTION 1.1 (*Survey will not proceed unless they answer)



*Enter the address or cross streets of the place you commute to outside your home the most frequently in your typical day-to-day activities. We will refer to this as your "primary destination" for the remainder of this survey.

You can also double-click to zoom in on the map to select a location.

Enter a location or address



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Address selected as demonstration in this document: 1 Cyclotron Rd, Berkeley, CA 94720, USA
References to this address hereafter show how the address a respondent enters will be referenced further in the survey.



*How many days per week on average do you go to your primary destination, **1 Cyclotron Rd, Berkeley, CA 94720, USA?**

Please select...

*Which of the following options best describes your primary destination, **1 Cyclotron Rd, Berkeley, CA 94720, USA?**

Please select all that apply.

- ☐ My work
- ☐ My school
- ☐ The work or school of a household member
- ☐ Other

Dropdown options:

*0 days
1 day
2 days
3 days
4 days
5 days
6 days
7 days*

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*Please indicate the **last time you used** each of the following transportation options either alone or in combination for your current commute to your primary destination,

	Today	In the past seven days	In the last month	In the last 12 months	At some point, but not in the last 12 months	Never	Not Applicable
Your own vehicle (single occupant)	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Carpool with a friend, family member, colleague, or through Casual Carpool	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Public mass transit - city bus	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Public mass transit - other (e.g., BART, MUNI, train, ferry)	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Private mass transit (e.g., company bus or shuttle)	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Uber, Lyft, or similar app-based rideshare service (single passenger option)	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Uber Pool, Lyft Line, or similar app-based rideshare service (carpool option)	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Car-sharing services like Zipcar or Car2Go	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Motorcycle, moped, or scooter	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Bicycle or foot	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Telecommute	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Other <input type="text" value="Please specify..."/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

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QUESTION 1.4 (*Survey will not proceed unless they answer)



*Please indicate whether you agree or disagree with the following statements.

	Agree	Disagree	Not Applicable
I have a driver's license	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
I prefer not to drive	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
I can't drive because of a disability, illness, or other limitation	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

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*Please indicate whether you would consider each of the items below to be a positive characteristic of a transportation option for you personally, or a negative characteristic.

	Positive	Negative
Ability to interact with people (other than close friends or family members)	<input type="radio"/>	<input type="radio"/>
Minimize environmental impacts	<input type="radio"/>	<input type="radio"/>

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QUESTION 1.6 (*Survey will not proceed unless they answer)

WholeTraveler
TRANSPORTATION BEHAVIOR STUDY

*In this question think about how you decide which transportation option to use for your commute to your primary destination, **1 Cyclotron Rd, Berkeley, CA 94720, USA**. Please rate how important each of the following characteristics of transportation options are to you in this decision on a scale of 1= Not at all important, to 5= Very important. If the characteristic is something you have never actually thought about before in the context of transportation, please select that option as well.

	Not at all important	Slightly important	Moderately important	Important	Very important	Not Applicable	I never thought about it before
	(1)	(2)	(3)	(4)	(5)		
Short travel time	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="checkbox"/>
Shelter from bad weather	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="checkbox"/>
Low cost	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="checkbox"/>
Predictable arrival time 	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="checkbox"/>
Ability to engage in activities while traveling 	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="checkbox"/>
Ability to safely and conveniently transport a child under 8 years of age	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="checkbox"/>
Ability to easily make more than one stop	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="checkbox"/>
Low hassle 	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="checkbox"/>
Safety	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="checkbox"/>
Maximize environmental impacts	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="checkbox"/>
Predictable cost 	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="checkbox"/>
Not having to interact with people (other than close friends or family members)	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="checkbox"/>

Row order randomized

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QUESTION 1.6 (notes)

If respondent selected “Positive” for an option in QUESTION 1.5, that item is given a positive frame in QUESTION 1.6, and if they selected “Negative” for an option in QUESTION 1.5, that item is given a negative frame in QUESTION 1.6.

Positive Frame:

Ability to interact with people (other than close friends or family members)
Minimize environmental impact

Negative Frame:

Not having to interact with people (other than close friends or family members)
Maximize environmental impact

Content of the “info” icons:

Predictable arrival time: “knowing when you will arrive at your destination”
Ability to engage in activities while traveling: “(e.g., work, reading, entertainment)”
Low hassle: “(e.g., not having to transfer multiple times)”
Predictable cost: “(e.g., cost doesn’t vary like it does with Uber surge pricing)”

QUESTION 1.7 (*Survey will not proceed unless they answer)



*Please fill in how many times during a **RECENT TYPICAL WEEK** that you or someone in your household:

	Received a delivery from an online/phone order of...	Took a vehicle (e.g., personal vehicle, taxi, Uber, Lyft) to a store or restaurant to buy primarily...	Walked, biked or used public transit to get to a store or restaurant to buy primarily...	Did not purchase any of these items in a recent typical week
Groceries	0 deliveries ▼	0 trips ▼	0 trips ▼	<input type="checkbox"/>
Clothing, shoes or accessories	0 deliveries ▼	0 trips ▼	0 trips ▼	<input type="checkbox"/>
Household items	0 deliveries ▼	0 trips ▼	0 trips ▼	<input type="checkbox"/>
Prepared meal	0 deliveries ▼	0 trips ▼	0 trips ▼	<input type="checkbox"/>

Dropdown options: 0 deliveries, 1 delivery, 2 deliveries, ..., 10 deliveries, more than 10 deliveries.

Dropdown options: 0 trips, 1 trip, 2 trips, ..., 10 trips, more than 10 trips.

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Content of "info" icons (same for both QUESTION 1.7 and QUESTION 1.8):

Groceries: "(e.g., cereal, meat, produce, dairy, beans)"

Household items: "(e.g., paper towels, diapers, cleaning products, sunscreen)"

Prepared meal: "(e.g., restaurant meals, take-out, meal delivery, cooking kit with prepared ingredients such as Blue Apron)"

QUESTION 1.8 (*Survey will not proceed unless they answer)



*We want to understand how home delivery affects how many shopping trips you or others in your household have to take.

Imagine, hypothetically, **you could not order anything online and request home delivery**, so that you could not receive the deliveries you reported in the previous question.

Think about the **SAME RECENT TYPICAL WEEK**. Please indicate whether lack of home delivery during that week would require you or someone in your household to take **ADDITIONAL TRIPS** (beyond those you reported in the previous question) in order to make those purchases, or whether you would not make any additional trips (because you would be able to meet your needs by purchasing those items during trips you already reported in the previous question or by foregoing them altogether).

	Number of deliveries you reported in the previous question that you could no longer have delivered	If you could not have them delivered, the number of additional trips you would make to buy these items beyond the trips reported in the previous question		Would not have made any additional trips to buy these items if you couldn't have them delivered
		using a vehicle (e.g., personal vehicle, taxi, Uber, Lyft)	by walking, biking, or using public transit	
Groceries ⓘ	1 delivery ▼	0 additional trips ▼	0 additional trips ▼	<input type="checkbox"/>
Clothing, shoes or accessories	1 delivery ▼	0 additional trips ▼	0 additional trips ▼	<input type="checkbox"/>
Household items ⓘ	1 delivery ▼	0 additional trips ▼	0 additional trips ▼	<input type="checkbox"/>
Prepared meal ⓘ	1 delivery ▼	0 additional trips ▼	0 additional trips ▼	<input type="checkbox"/>

Dropdown options: 0 additional trips, 1 additional trip, 2 additional trips, ..., 10 additional trips, more than 10 additional trips.

Rows only appear in the table for QUESTION 1.8 if the respondent indicated they had one or more deliveries of that item when they answered QUESTION 1.7. If respondent indicated no deliveries in any of these four categories when answering QUESTION 1.7, then QUESTION 1.8 is skipped.

Your responses from the previous question for reference:

	Received a delivery from an online/phone order of...	Took a vehicle (e.g., personal vehicle, taxi, Uber, Lyft) to a store or restaurant to buy primarily...	Walked, biked, or used public transit to get to a store or restaurant to buy primarily...
Groceries	1	0	0
Clothing, shoes or accessories	1	0	0
Household items	1	0	0
Prepared meal	1	0	0

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*In general, what are the three things you like **MOST** about making purchases online with delivery rather than making purchases in a store?

Select up to three.

- ☐ More environmentally friendly
- ☐ Saves time
- ☐ More convenient
- ☐ More options
- ☐ Saves money
- ☐ Easier to compare options and prices
- ☐ Don't have to interact with another person
- ☐ Less hassle
- ☐ Other:
- ☐ Not applicable

Order of rows randomized

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*In general, what are the three things you like **LEAST** about making purchases online with delivery rather than making purchases in a store?

Select up to three.

- ☐ Delivery charges
- ☐ Having to wait for delivery
- ☐ Less environmentally friendly
- ☐ Too much packaging to dispose of
- ☐ Harder to know exactly what you're getting (e.g., fit, fabric, quality, freshness)
- ☐ Less personal (i.e., don't get to interact with another person)
- ☐ Having to mail back returns
- ☐ Harder to browse and get ideas or get exposed to new items
- ☐ Not supporting local businesses
- ☐ Other:
- ☐ Not applicable

Order of rows randomized

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*In the following table there are technologies listed down the rows on the left, and statements listed across the top. In each cell, please check the box if you would answer "YES" to that statement for that technology. If you would not answer "YES" to any of the statements for that technology, select Not Applicable. Select multiple statements for each technology, if applicable.

	I know of a close friend, coworker, or family member that owns this technology	I have used/ experienced this technology	I currently own or have owned this technology	I am interested in owning or using this technology in the future	I have never heard of this technology before now	Not Applicable
Hybrid vehicle (gasoline-electric)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Plug-in electric vehicles	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Smart phone	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Rooftop solar panels	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

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*In the following table there are automated or self-driving vehicle technologies listed down the rows on the left, and statements listed across the top. In each cell, please check the box if you would answer "YES" to that statement for that technology. If you would not answer "YES" to any of the statements for that technology, select Not Applicable. Select multiple statements for each technology, if applicable.

	I know of a close friend, coworker, or family member that has used/experienced this technology	I have used/experienced this technology	I currently own or have owned this technology	I am interested in owning or using this technology in the future	I have never heard of this technology before now	Not Applicable
Adaptive cruise control - brakes and accelerates to match the speed of the vehicle in front (only on highways), but requires driver to steer.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Partially automated - automatically brakes and accelerates, and additionally steers itself sufficiently to stay in a lane (only on highways), but requires the driver to be paying attention, to change lanes and be available to override (e.g., Tesla "Autopilot").	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Fully automated - vehicle drives itself and does not require a driver to be paying attention (i.e., rider could sleep, read, work, or otherwise not pay attention to the road).	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

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*In the following table there are services listed down the rows on the left, and statements listed across the top. In each cell, please check the box if you would answer “YES” to that statement for that service. If you would not answer “YES” to any of the statements for that service, select Not Applicable. Select multiple statements for each service, if applicable.

	I know of a close friend, coworker, or family member that has used this service	I have used this service	I currently regularly use this service	I am interested in using this service in the future	I have never heard of this service before now	Not Applicable
Uber, Lyft, or similar app-based rideshare service (single passenger option)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Uber Pool, Lyft Line, or similar app-based rideshare service (carpool option)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Navigation or trip-planning apps (e.g., Google Maps, Apple Maps, WAZE)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Amazon Prime Account	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Car-sharing services like Zipcar or Car2Go	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

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*How many vehicle(s) (car, truck, SUV, van, or other passenger vehicle) are currently owned or leased by your household?

Please select...

Dropdown options:

0
1
2
3
4
5 or more

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QUESTION 1.15 (They can click “Next” and proceed without responding)



Please fill out the following information for the vehicle (car, truck, SUV, van, or other passenger vehicle) that you drive most frequently. If you don't generally drive, then fill in the information of the vehicle that is driven the most frequently by anyone in your household.

Year	<input type="text" value="Please select..."/>
Make	<input type="text" value="Please select..."/>
Model	<input type="text" value="Please select..."/>
Fuel Type	<input type="text" value="Please select..."/>

Dropdown options for “Year”: 2018, 2017, ..., 1981, 1980 or older

Dropdown options for “Make” and “Model” auto-populate from a database of makes and models. Once “Make” is filled in, “Model” narrows down to just models of that make.

Dropdown options for “Fuel Type”: Gasoline; Diesel; Gasoline-Electric Hybrid; Plug-in Electric Hybrid; Plug-in all Electric; Ethanol; Hydrogen; Other

What year was this vehicle purchased/acquired?

Dropdown options: 2018, 2017, ..., 1981, 1980 or earlier

The number of days per week on average this vehicle is driven:

Dropdown options: 0 days, 1 day, 2 days,..., 7 days.

This vehicle is most often driven by:

Dropdown options: me; someone else in my household

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This question is skipped if respondent entered “0” in QUESTION 1.14.

QUESTION 1.16 (*Survey will not proceed unless they answer)

The prompt for this question is randomized across respondents. The following are the four treatments, corresponding to the two statements in green in the prompt:

TREATMENT 1: with certainty it would cost you \$0.2 per mile; a cost of $[\$0.2 \times \text{distance}]$

TREATMENT 2: with certainty it would cost you \$0.7 per mile; a cost of $[\$0.7 \times \text{distance}]$

TREATMENT 3: with certainty it would cost you \$1.2 per mile; a cost of $[\$1.2 \times \text{distance}]$

TREATMENT 4: there would be a 50% chance that it would cost you \$0.5 per mile, and a 50% chance that it would cost you \$0.9 per mile; a 50% chance of it costing $[\$0.5 \times \text{distance}]$ and a 50% chance of it costing $[\$0.9 \times \text{distance}]$



WholeTraveler
TRANSPORTATION BEHAVIOR STUDY

“distance”=miles between home address and primary destination location (calculated using google’s router); location of home address is known, as the invitation letter is sent to an address-based sample, location of primary destination is from response to QUESTION 1.1.

*Imagine that you recently learned that **with certainty it would cost you \$0.70 per mile** to take a ride-hailing service, such as Uber or Lyft. This would mean **a cost of \$0.00** to take Uber or Lyft from your home to your primary destination, **1 Cyclotron Rd, Berkeley, CA 94720, USA**.

Given the above information about the cost of Uber or Lyft, please indicate for what amount of your commute to your primary destination you would choose to take each of the following modes on a typical day:

	The whole trip	Part of the trip
Your own vehicle	<input type="checkbox"/>	<input type="checkbox"/>
Public mass transit – other (e.g., BART, MUNI, train, ferry)	<input type="checkbox"/>	<input type="checkbox"/>
Walk (more than 5 minutes) or bike	<input type="checkbox"/>	<input type="checkbox"/>
Uber, Lyft, or similar app-based rideshare service	<input type="checkbox"/>	<input type="checkbox"/>
Public mass transit – city bus	<input type="checkbox"/>	<input type="checkbox"/>
Other	<input type="checkbox"/>	<input type="checkbox"/>

Order of rows is randomized.

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47%

Respondent cannot select “The whole trip” for more than one option, and cannot select “The whole trip” for one option and “Part of the trip” for another.



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Section 2. In this section we ask you some questions that let us understand more about your personality. The questions in this section may seem like they don't have much to do with your transportation decisions. However, research has shown that these types of questions do provide meaningful information that helps explain people's transportation choices.

Please click "Next" to continue.

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*Please rate your agreement with the following statements about your personality.

I see myself as someone who...	Strongly disagree	Somewhat disagree	Neither agree nor disagree	Somewhat agree	Strongly agree
... is reserved	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
... is generally trusting	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
... tends to be lazy	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
... is relaxed, handles stress well	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
... has few artistic interests	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
... is outgoing, sociable	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
... tends to find fault with others	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
... does a thorough job	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
... gets nervous easily	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
... has an active imagination	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
... is considerate and kind to almost everyone	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

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*In each of the following hypothetical choices, please indicate whether you would prefer a **certain prize amount for sure (Option A)**, or whether you would rather **take the 50-50 chance at getting a higher prize amount (Option B)**. These choices are purely hypothetical.

	Option A	Option B (These are all the same)
Choice 1	\$1 for sure	50% chance of winning \$100, 50% chance of winning \$0
Choice 2	\$10 for sure	50% chance of winning \$100, 50% chance of winning \$0
Choice 3	\$20 for sure	50% chance of winning \$100, 50% chance of winning \$0
Choice 4	\$30 for sure	50% chance of winning \$100, 50% chance of winning \$0
Choice 5	\$40 for sure	50% chance of winning \$100, 50% chance of winning \$0
Choice 6	\$50 for sure	50% chance of winning \$100, 50% chance of winning \$0
Choice 7	\$60 for sure	50% chance of winning \$100, 50% chance of winning \$0
Choice 8	\$70 for sure	50% chance of winning \$100, 50% chance of winning \$0
Choice 9	\$80 for sure	50% chance of winning \$100, 50% chance of winning \$0
Choice 10	\$90 for sure	50% chance of winning \$100, 50% chance of winning \$0

"Rationality" is enforced; for example if respondent selects "\$50 for sure" it is enforced that they also select the sure option of anything more than \$50. And if they take the 50-50 chance instead of \$60 for sure, it is enforced that they are also willing to take the 50-50 chance over anything less than \$60 for sure.

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*In each of the following hypothetical choices, please indicate whether you would prefer **a prize amount today (Option A)**, or whether you would rather **wait for a higher prize amount in 3 months (Option B)**. These choices are purely hypothetical.

	Option A (These are all the same)	Option B
Choice 1	\$100 today	\$101 in 3 months
Choice 2	\$100 today	\$105 in 3 months
Choice 3	\$100 today	\$110 in 3 months
Choice 4	\$100 today	\$115 in 3 months
Choice 5	\$100 today	\$120 in 3 months
Choice 6	\$100 today	\$125 in 3 months
Choice 7	\$100 today	\$130 in 3 months
Choice 8	\$100 today	\$140 in 3 months
Choice 9	\$100 today	\$150 in 3 months
Choice 10	\$100 today	\$160 in 3 months

“Rationality” is enforced; for example if respondent selects “\$115 in 3 months” it is enforced that they also select to wait 3 months for anything over \$115. And if they take the \$100 today instead of \$125 in 3 months, it is enforced that they would also select \$100 today over anything less than \$125 in three months.

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TRANSPORTATION BEHAVIOR STUDY

Section 3: In this section we will ask you some basic demographic and household information.

Please click "Next" to continue.

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60%



*In what year were you born?

Year

Please select...

Dropdown options: 1999, 1998, 1997, ..., 1900

Note: they can only take the survey if they are 18 or over. The field year of the survey is 2017, so they can't have been born any more recent than 1999.

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62%



What is your gender?

- ☐ Male
- ☐ Female
- ☐ Other
- ☐ Prefer not to answer

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Which categories best describe you?

Select one or more boxes.

- ☐ White
- ☐ Hispanic, Latino, or Spanish origin
- ☐ Black or African American
- ☐ Asian
- ☐ Middle Eastern or North African
- ☐ American Indian or Alaska Native
- ☐ Native Hawaiian or Other Pacific Islander
- ☐ Some other race or origin
- ☐ Prefer not to answer

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What is the highest level of education you've completed?

- ☐ 12th grade or less, no diploma
- ☐ High school diploma/GED
- ☐ Some college
- ☐ Associate's degree
- ☐ Bachelor's degree
- ☐ Master's degree
- ☐ Professional degree (for example: MD, DDS, DVM, JD)
- ☐ Doctoral degree (for example: PhD, EdD)
- ☐ None of the above
- ☐ Prefer not to answer

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What is your annual household income before taxes?

- ☐ Less than \$10,000
- ☐ \$10,000 to \$14,999
- ☐ \$15,000 to \$24,999
- ☐ \$25,000 to \$34,999
- ☐ \$35,000 to \$49,999
- ☐ \$50,000 to \$74,999
- ☐ \$75,000 to \$99,999
- ☐ \$100,000 to \$149,999
- ☐ \$150,000 to \$199,999
- ☐ \$200,000 to \$299,999
- ☐ \$300,000 to \$399,999
- ☐ \$400,000 or more
- ☐ Prefer not to answer

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Do you speak another language other than or in addition to English at home?

☐ No

☐ Yes

☐ Prefer not to answer

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Which of the following best describes your employment status?

Please select all that apply.

- ☐ Employed for wages
- ☐ Self-employed
- ☐ Out of work and looking for work
- ☐ Out of work but not currently looking for work
- ☐ A homemaker
- ☐ A student
- ☐ Military
- ☐ Retired
- ☐ Unable to work
- ☐ Prefer not to answer

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QUESTION 3.8 (They can click “Next” and proceed without responding)



WholeTraveler
TRANSPORTATION BEHAVIOR STUDY

Including yourself, how many people (including all adults and children) currently live in your household?

- ☐ 1
- ☐ 2
- ☐ 3
- ☐ 4
- ☐ 5
- ☐ 6
- ☐ 7
- ☐ 8
- ☐ 9
- ☐ 10 or more

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80%



How many of the 5 people that live in your household are children under 8 years of age?

- ☐ 0
- ☐ 1
- ☐ 2
- ☐ 3
- ☐ 4

How many of the 5 people that live in your household currently have driver's licenses?

- ☐ 0
- ☐ 1
- ☐ 2
- ☐ 3
- ☐ 4
- ☐ 5

If they answered "1" to QUESTION 3.8, this question is skipped all together.

The set of options available in the first part of this question is their response to QUESTION 3.8 minus 1. So, for example, if they selected 5 in QUESTION 3.8, they can select between 0 and 4 of those household members being children. If they selected "10 or more" in QUESTION 3.8, the set of options in the first part of this question are: 0, 1, 2, 3, ..., 8, 9 or more.

The set of options available in the second part of this question between 0 and their response to QUESTION 3.8. If they selected 5 in QUESTION 3.8, the response options for the second part of this question are 0, 1, 2, 3, 4, 5. If they selected "10 or more" in QUESTION 3.8, the set of options in the second part of this question are: 0, 1, 2, ... 8, 9, 10 or more.

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*Which of the following transportation options did your **parent(s) or guardian(s)** use most frequently when you were in high school (14 – 18 years old)?

Select up to three.

- ☐ Public mass transit (e.g., train, tram, bus, ferry)
- ☐ Telecommute
- ☐ Private mass transit (e.g., company bus or shuttle)
- ☐ Drive own vehicle (single occupant)
- ☐ By bicycle or foot
- ☐ Carpool with at least one other person (including another adult household-member)
- ☐ Other

Order of rows is randomized.

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Section 4. In this last section of the survey we are going to ask you questions about life events and things that may have affected your transportation needs, options, and choices in your past. You will be shown a timeline of your life between the ages of 20 and up to age 50. You will be asked to indicate with a checkmark, or by selecting a time range, when various events occurred.

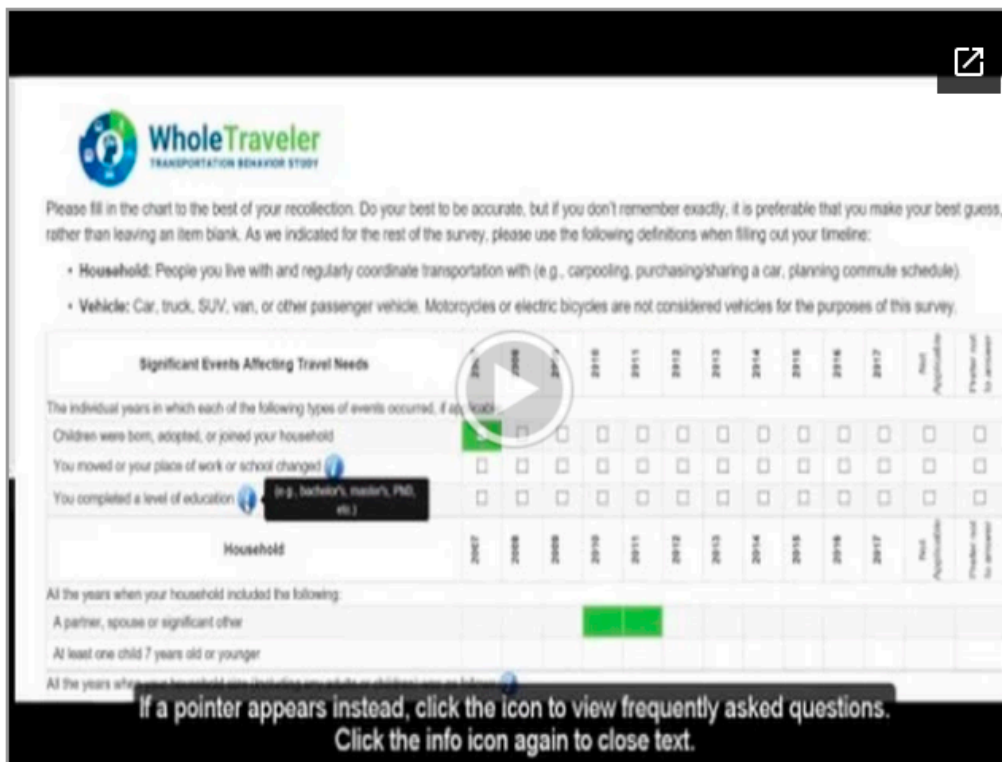
Click on the following video if you would like to see some more detailed instructions about how to fill in this portion of the survey.

Transcript of instruction video:

This video will show you how to fill out the life history section.

Each row represents an event or detail about your household. Each column represents one year. To make your selection, click directly on a box. The box will turn green once selected. To select multiple boxes at once, click one box, hold, drag your cursor, and release. To unselect a box, click the box again. To unselect multiple boxes at once, click one box, hold, drag, and release.

Please click "Next" to continue.



The screenshot shows the 'WholeTraveler TRANSPORTATION BEHAVIOR STUDY' interface. It features a timeline chart titled 'Significant Events Affecting Travel Needs'. The chart has columns for years from 2007 to 2017, plus 'Not Applicable' and 'Prefer not to answer'. Rows include events like 'Children were born, adopted, or joined your household', 'You moved or your place of work or school changed', and 'You completed a level of education'. A play button icon is overlaid on the chart. Below the chart, there are sections for 'Household' and 'All the years when your household included the following:'. A text overlay at the bottom reads: 'If a pointer appears instead, click the icon to view frequently asked questions. Click the info icon again to close text.'

Transcript of instruction video (continued):

Info icons contain additional helpful information. Hover your cursor over any info icon to view text. If a pointer appears instead, click the icon to view frequently asked questions. Click the info icon again to close text.

Please fill in the chart to the best of your recollection. Do your best to be accurate, but if you don't remember exactly, it is preferable that you make your best guess, rather than leaving an item blank.

You may also select Not Applicable or Prefer not to answer.

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If you have questions, email wholetraveler@rsginc.com.




QUESTION 4.1 (*Survey will not proceed unless they answer)

Years shown are customized to respondent's birth year. It shows the years corresponding to when the correspondent was age 20 and up to the point when they were age 50. If they are under 20 years of age, this page (and the preceding instructional page) will be skipped.



Please fill in the chart to the best of your recollection. Do your best to be accurate, but if you don't remember exactly, it is preferable that you make your best guess, rather than leaving an item blank. As we indicated for the rest of the survey, please use the following definitions when filling out your timeline:

- **Household:** People you live with and regularly coordinate transportation with (e.g., carpooling, purchasing/sharing a car, planning commute schedule).
- **Vehicle:** Car, truck, SUV, van, or other passenger vehicle. Motorcycles or electric bicycles are not considered vehicles for the purposes of this survey.

Significant Events Affecting Travel Needs	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	Not Applicable	Prefer not to answer
The individual years in which each of the following types of events occurred, if applicable:																																	
Children were born, adopted, or joined your household	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
You moved or your place of work or school changed 	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
You completed a level of education 	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Household	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	Not Applicable	Prefer not to answer
All the years when your household included the following:																																	
A partner, spouse or significant other	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
At least one child 7 years old or younger	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
All the years when your household size (including any adults or children) was as follows: 																																	
1 member	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
2 members	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
3 members	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
4 members	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
5 or more members	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Employment and Education	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010		

QUESTION 4.1 (continued) (*Survey will not proceed unless they answer)

Content of “info” icons:

- You moved or your place of work or school changed:

“Frequently Asked Question: There were times when I moved multiple times in one year, how do I count that in the timeline?”

Answer: Regardless of how many times you moved in a year, simply indicate with a checkmark that you moved during that year.”

- You completed a level of education: “(e.g., bachelor’s, master’s, PhD, etc.)”


- All the years when your household size...:

“Frequently Asked Question: I lived with my roommate at one point, is my roommate part of my household?”

Answer: If you and your roommate regularly coordinated on transportation decisions, like deciding to purchase a car together, carpooling, etc., then yes. Otherwise, no.

Frequently Asked Question: My living situation changed three times in one year with different combinations of people. Who do I say I lived with that year?

Answer: Choose whatever answer you think best describes your living situation for the majority of that year.”

Vehicle ownership	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	Not Applicable	Prefer not to answer
All the years when your household had each of the indicated numbers of vehicles: 																																	
No vehicle																																	
1 vehicle																																	
2 vehicles																																	
3 vehicles																																	
4 vehicles																																	
5 or more vehicles																																	

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90%

Content of “info” icons (continued):

- You were enrolled in school or a training program: “(e.g., college, trade school, internship, medical school, law school, city college, etc.)”

- All the years when public mass transit was AVAILABLE...:

“Frequently Asked Question: It would have taken me two hours to get to work on the bus so it wasn’t even close to an option for me, does that still mean it was available or not?”

Answer: Even if the mode option was really inconvenient, we still want to know that it technically existed, so please indicate that it was available.”

- Public mass transit: “(e.g., bus, BART, MUNI, train, ferry)”

- All the years when your household had each of the indicated numbers of vehicles:

“Frequently Asked Question: It’s my wife’s car, does that mean I should say I own it?”

Answer: We are interested in all vehicles in your household, so include your wife’s car.”

(They can click “Next” and proceed without responding)



Please provide your email address so we can send you the \$10 Amazon Gift Card for completing this survey:

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82%



Thank you for completing the first phase of the WholeTraveler Transportation Behavior Study. You will be sent an email with your \$10 Amazon Gift Card to the email address you provided as soon as possible.

You now have an opportunity to volunteer for Phase 2 of the study. Participation in Phase 2 is entirely voluntary.

A reminder of what's involved in Phase 2 of the study:

In the second phase you will follow some simple steps to provide a week's worth of your GPS Google Location History data. Google will collect these data using your smartphone through Google apps linked to your Google Account (such as Google Maps) while you go about your normal day-to-day activities for one week. The research team will not have direct access to your smartphone in any way. First, you will follow simple set-up steps. Then at the end of the week you will upload the data and answer a short set of questions about the transportation options you used during the week. All told, this will take 10-30 minutes.

In order to participate in Phase 2 of the study, you must meet the following requirements: (i) have personally participated in the Phase 1 online survey; (ii) be 18 years old or older; (iii) have access to a desktop or laptop computer; (iv) have an iOS or Android smartphone that you do not share with any other individual; and (v) either have or be willing to obtain a Google Account and have the Google Maps app installed on your smartphone (we will provide you with instructions for how to do both of these things). You will also need access to a desktop or laptop computer with Internet access to complete the final Google Location History data upload step.

If you submit one week's worth of GPS Google Location History data for this second phase of the study, you will receive a \$20 payment. This is in addition to the \$10 you will receive for having completed the Phase 1 survey. This payment will be in the form of an emailed Amazon Gift Card.

Risks and Confidentiality

By participating in Phase 2 there is a risk that your identity could be linked to the information you provide. In particular, through your GPS location data your common destinations, transportation patterns, or daily schedule could be observed. The primary risk to you would be unauthorized access to your data. There may also be other risks that we cannot predict.

Steps will be taken to ensure data security in order to minimize these risks. Data transfer and storage will follow industry best practices for security. In addition, access to the survey and GPS location-linked data will be highly controlled. An LBNL cyber security specialist has approved all data transfer, storage and access protocols.

If you participate in Phase 2 of this study and choose to provide us with your Google Location History data, be aware that Google collects those data and uses them for their own purposes. Google does not share those data with any companies, organizations or individuals outside of Google except under specific circumstances (with consent, with domain administrators, for external processing, or for legal reasons). While you need to allow Google to store your Location History over the course of a week if you want to participate in Phase 2 of this study, you can delete your Location History in-part or entirely, and turn off the preferences allowing Google to access or store those data, at any time. We will provide you with instructions for how to do this at the end of Phase 2. More information about Google's privacy policy can be found here:

https://static.googleusercontent.com/media/www.google.com/en/intl/en/policies/privacy/google_privacy_policy_en.pdf

Would you like to participate in Phase 2 of the WholeTraveler Transportation Behavior Study?

- ☐ Yes
- ☐ No

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(They can click “Next” and proceed without responding)



Thank you for volunteering for Phase 2. We will email you some simple instructions for what to do next. Please confirm the email address where you would like us to send these instructions (Note: if you have a Gmail account, we suggest you provide that email address as it will simplify the set-up and data upload steps for Phase 2):

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WholeTraveler
TRANSPORTATION BEHAVIOR STUDY

Thank you for taking the time to complete this survey. All of your responses have been saved, so you may now exit your browser. For more information go to wholetraveler.lbl.gov.