Introduction & Long-Distance Trips Definitions

Impacts of Self Driving Vehicles and COVID-19 on Long-Distance Travel Behavior

Dear Respondent,

The **University of Texas at Austin** Center for Transportation Research is conducting a research study to explore long-distance travel habits under different self-driving vehicle options as well as the influence of the COVID-19 pandemic.

Self-driving vehicles are new technology with the potential to improve the safety and mobility of travel, increase productivity, and reduce the environmental impacts of transportation. Long-distance travel is a significant component of transportation energy and emissions. Self-driving vehicles may also **increase long-distance travel** and **allow vehicle owners to engage in other activities and identify optimal transport policies and network design strategies**.

The survey will take approximately **20 minutes** to complete. The survey will ask questions about your long-distance travel behavior, your current vehicle, your household, and your opinions about self-driving vehicles. Your responses will be used to develop and test the research analysis and it is hoped that will benefit society. There are **no known** risks involved in your participation in this study and no direct benefits. You are not obligated to participate in this survey and you may stop at any time. Please feel free to contact the **lead transportation planning** Dr. Austin and the other U.T. regents.

Your participation in this survey is voluntary and responses are kept confidential and typed of residents be represented in the survey.

If you have any questions or comments about this study, please feel free to contact the personally at **thoughtandcloud.utexas.edu** or (512) 471-4210. If you have any questions about your rights as a research participant, please contact the Office of Research Support at (512) 471-8871 or email orsp@utexas.edu or orsp@utexas.edu. Your participation in the survey indicates your willingness to participate in the study.

Thank you very much for your time and participation!

Dr. Kara Kockelman
Professor of Transportation Engineering & Faculty Sponsor
kkockelman@utexas.edu

Please **TAKE TRUE TIME** in this survey. There are many unusual questions that require **careful** reading and thoughtful answers. Those completing the survey in less than 10 minutes are unlikely to have carefully read and answered the questions.

Please read carefully before moving on.

SELF DRIVING VEHICLES
Self-driving vehicles (SDV) are defined with **driving functions** for **all vehicle trip**. This design anticipates that the driver will provide the destination or navigation input, but the **driver is NOT expected to be available for vehicle control at any given time** during the trip. A self-driving vehicle may or may not have the option of a human driver operating the vehicle, when desired.

ONE WAY TRIPS AND RENTAL TRIPS
Please consider **one-way trips** in the questions **distribution and directly back again**. A round trip is counted as two one-way trips.

A one-way trip (by airplane) is defined as **a trip from one place to another but not back again**.

LONG DISTANCE TRAVEL
Trips of **100 miles or more** are considered **a** one-way trip with a **distance greater than 75 miles** from its **origin to the destination** (e.g. round trip with a **distance greater than 150 miles in length**). Importantly, the distance between central Austin and Dallas (or Austin to Houston) is less than 200 miles (Austin to San Francisco is 1800 miles, and Los Angeles Los Angeles is 1200 miles). Trip lengths are determined by driving distance. https://www.mapquestdirections.com/distance/form.jsp

Long-Distance Trips Frequency & Trip Purpose

Count a **round trip as a single trip**.
Count a **one-way trip as a single trip**.
Count **one-way trips** that **cross over or round trips as a single trip**.

Long-distance trips (**100 miles or more**) are defined as **trips from one place to another but not back again**.

LONG DISTANCE TRAVEL
Trips of **100 miles or more** are considered **a** one-way trip with **a distance greater than 75 miles** from its **origin to the destination** (e.g. round trip with **a distance greater than 150 miles in length**). Importantly, the distance between central Austin and Dallas (or Austin to Houston) is less than 200 miles (Austin to San Francisco is 1800 miles, and Los Angeles Los Angeles is 1200 miles). Trip lengths are determined by driving distance. https://www.mapquestdirections.com/distance/form.jsp

Please enter **whole numbers** (integral only)

Number – **one** business trip (distance 75 miles one way) Stops	
Number – **business** trip (distance 75 miles one way) Trips	
Total	0

How many **long-distance** trips did you **cancel or decide not to take** during COVID-19?

Work Related Business	
Shopping	
Other Family Personal Business	
Social Events	
Medical Dental	
Visit Friends Relatives	
Other Social Recreational	
Other (please specify)	
Total	0

Which is your **primary mode, or way of traveling**, for **long-distance one-way trips** between **75 and 300 miles long?** Please select one for each category:

	Car	Bus	Train	Airplane	Boat/Ship	Not Applicable
Vacation/Recreation	○	○	○	○	○	○
Personal visit with Family &/or Friends	○	○	○	○	○	○
Business (conference or sort of city meetings)	○	○	○	○	○	○

Which is your **primary mode** of **long-distance one-way trips longer than 300 miles?** Please select one for each category:

	Personal Car	Rental Car	Bus	Train	Airplane	Boat/Ship	Not Applicable
Vacation/Recreation	○	○	○	○	○	○	○
Personal visit with Family &/or Friends	○	○	○	○	○	○	○
Business (conference or sort of city meetings)	○	○	○	○	○	○	○

What is the average **frequency** of your **long-distance trips** during the following periods? Please select one for each category:

	Before the COVID-19 pandemic	During the COVID-19 pandemic	Your best pre-after COVID-19 estimate
Every week			
More than once a month			
Once a month			
More than once a quarter			
Every 3 months			
Every 6 months			
Every 9 months			
Every 12 months			
Never			

What are the **trip purposes** of your **long-distance trips** during the following periods? (Multiple choices)

	Before the COVID-19 pandemic	During the COVID-19 pandemic	Your best pre-after COVID-19 estimate
Work Related Business			
Shopping			
Other Family Personal Business			
Social Events			
Medical Dental			
Visit Friends Relatives			
Other Social Recreational			
Other (please specify)			

Self-Driving and Shared Vehicle Technology Definitions & Preferences

Please read carefully before moving forward.

While multiple levels of automation are available in may become available in the future, full self-driving automation is the highest level of automation, and it may have significant impacts on transportation. It is anticipated that this automation will be implemented in a variety of ways in the future. In this survey, self-driving is approached with two full self-driving automation options:

Personal self-driving vehicles The vehicle is designed to perform all driving functions for the vehicle trip. This design anticipates that the driver will provide the destination or navigation input, but the **driver is not expected to be available for vehicle control at any time during the trip. (** **self-driving or automated/autonomous vehicle** **)** We may not have the option of a human driver, or human driver, operating the vehicle, when desired.

SELF-DRIVING VEHICLE

Self-driving automation is also referred to as:

- vehicle that **requires a human driver** for their use
- vehicle that **requires a human driver** on the vehicle for their use
- vehicle **without a human driver** on the vehicle for their use
- vehicle that **can perform all driving functions** for the entire trip, **regardless** of the availability of a **driver**

Please read carefully before continuing.

The average price of a new car in America in 2020 was just over a little less than $35000. In the near future, self-driving vehicles are expected to be available for purchase at a premium price (for example, an additional thousand dollars), either separate (one car purchase or government agency) or offset the high initial cost with long-term profits. This fleet of vehicles could be shared among a group of people who will share such upfront costs and share the vehicle with other people. Shared self-driving vehicles are expected to be available for purchase at a lower price than personal self-driving vehicles, but with less convenience and more sharing.

Shared Autonomous Vehicle Fleets A fleet of self-driving vehicles, which can be **shared among people** in a **group or region**, of the entire fleet. **Autonomous Vehicle Fleet** A fleet of self-driving vehicles. The vehicle fleet self-driving fleet service can be **rented by people using an app or ride-hailing**.

SHARED SELF-DRIVING CAR

Shared self-driving cars or SDV. Vehicles are:

- **owned** or **rented** by **companies** or **people**
- rented or used by **one** or **more** people
- **shared** by **one** or **more** people
- **free** of the cost

Assume that **self-driving cars** are publicly available to **ride with others** (carpool). Do not already include or indicate your **preference** for driving while keeping this in mind.

- Using driving a vehicle with a stranger, and do not want to use self-driving cars.
- Using driving a vehicle, but will prefer being driven around by self-driving cars from time to time.
- Using driving a vehicle, but will prefer being driven around by self-driving cars more than half the time.
- I do not like driving a vehicle and will prefer to use non-motorized transport.
- I do not like driving a vehicle and will prefer to use non-motorized transport.
- I do not like driving a vehicle and will prefer to use non-motorized transport.
- Other (please specify)

Assume you **do not own** a vehicle, but are willing to **ride with others** (carpool). Do not already include or indicate your **preference** for driving while keeping this in mind.

- Yes, I am willing to ride with someone I do not know for a reduced cost when there is no time selected to my trip.
- Yes, I am willing to ride with someone I do not know for a reduced cost even if it adds additional time to my trip.
- No, I am willing to ride with someone I do not know for a reduced cost even if it adds no additional time to my trip.
- No, I am willing to ride with someone I do not know for a reduced cost even if it adds additional time to my trip.

Assume you **do not own** a vehicle, but are willing to **ride with others** (carpool) you do not already know or **pick up strangers** in a **car** for a **reduced cost** or equivalent **private fare** and **it adds additional time** to your trip.

- Yes, I am willing to ride with someone I do not know for a reduced cost even if it adds time to my trip.
- **Yes, I am willing to ride with someone I do not know for a reduced cost even if it adds additional time to my trip.**
- No, I am willing to ride with someone I do not know for a reduced cost even if it adds additional time to my trip.
- No, I am willing to ride with someone I do not know for a reduced cost even if it adds additional time to my trip.

Long-Distance Trip Revealed & Stated Preferences

In this section, we will ask a **series of questions** regarding **a long-distance** trip you made during the **pre-COVID-19 period**. **12 months prior Stay-At-Home**.

Remember that one way long-distance trips are **more than 75 miles** (or **round** trip more than **150 miles**) and **longer than** a **stay-in the destination**.

In this **one way trip** – **round trip** that is of **typical** long **distance trip revealed trip** chosen **together**:

A one way trip
A round trip
Traveling to a place
Traveling to a place at a meeting/trip

Very long ago was the trip? If you know the **exact date** of the trip, please enter
1 MM/DD/YYYY form. **Or** if you **are unsure** of the exact date, please **estimate the date** on which you **took** the trip.

Please select the **month** and **year** of the trip, or **the exact date of the trip**
(For example, if you the way from 01/20/2019 to 03/02/2019, then the date the trip was taken is 02/2019)
Please include any leading 0s.

MM/DD/YYYY
Or approximate date: **MM/DD/YYYY**

What was the **purpose** of **the trip**? Please select all that apply:

- Visit customers
- Attend meetings
- Attend conferences
- Attend **other** business related events (please specify)
- Attending or participating in a concert, sporting event, or other entertainment
- Visit friends or family
- Visit **personal** business (medical appointments, doctor appointments, weddings, funerals)
- Other **business** related business (please specify)
- Other **non-business** (Multiple choices) (please specify)

What was the **origin** (Complete home address, work address) of the trip and the **destination** (Transition, hotel, Airbnb, lodging, meeting) of the trip?

For round trips, please give the destination as the place you went to and came back from. For example, if I took a round trip from Austin to Houston and back to Austin, the destination is the place I went to in Houston. Never use the destination would be Austin. Between Austin.

Note: If you forgot the **address of the place**, please enter the name of the city, **when outside of the United States** of the country and then select the country.

City	State	Country

	City	State	Destination	City	State	Destination
Origin						
Destination						

Now, if you are **following** a **long-distance** trip to your home in the near future, please answer **as if you have completed your trip**.
Please include any leading 0s. **Leave blank** if not applicable.

	Date	Time	Mode	Stop Duration
1st long-distance stop				
2nd long-distance stop				
3rd long-distance stop				
4th long-distance stop				
5th long-distance stop				
6th long-distance stop				
7th long-distance stop				

What was the approximate **distance** from the **origin to the furthest destination** of the trip?

- Between 75 and 300 miles
- Between 300 and 600 miles
- More than 1000 miles

What was the **transportation** you used **the most** time in the longest travel distance of **transportation** for the trip? Please select one:

- Car
- Rental car
- Bus
- Train
- Airplane
- Boat
- Other (please specify)

How likely are you to **drive a self-driving car** for the trip, if **costs the same** as the trip you have taken?

- Unlikely
- Less likely
- About likely
- More likely
- Very likely

What are the important considerations for you when **deciding** to take **long-distance** travel using a **self-driving vehicle? (Multiple Choices)**

- The safety offered by a self-driving car
- The convenience offered by a self-driving car so can have a good rest and relaxed instead of driving
- The convenience offered by self-driving car so can have a good rest during long-distance driving
- The safety offered by a self-driving car
- The self-driving car's ability to self-park
- Other (please specify)

How likely are you to **drive a self-driving car** for the trip, if **costs the same** as the trip you have taken?

- Unlikely
- Less likely
- About likely
- More likely
- Very likely

What are the important considerations for you when **deciding** to take **long-distance** travel using a **self-driving car? (Multiple Choices)**

- I enjoy driving by myself
- I'm not comfortable in the safety benefits provided by self-driving cars.
- Family software is a self-driving car creates me.
- Self-driving cars are too expensive and I can't afford to purchase one.
- The possibility of being detained in a self-driving car concerns me.
- Other (please specify)

Considering the **social distancing policy** during **COVID-19**, how likely are you to choose **a self-driving car** from **a shared fleet** for the trip, if **costs the same** as the trip you have taken?

- Unlikely
- Less likely
- About likely
- More likely
- Very likely

Are you willing to **use a self-driving car** to make this **same trip**, if your **travel time falls by 10%**?

- Yes, I am willing to use a self-driving car for the trip if the travel time falls by 10%.
- I may willing to use a self-driving car for the trip if the travel time falls by 10%.
- No, I am not willing to use a self-driving car for the trip if the travel time falls by 10%.
- I do not know.

You answered previously that you are **willing to use a self-driving car** to make the **same trip** and if your travel time **falls by 10%**. What is the **most per mile** (Dollars) that you are willing to pay to use the **self-driving car** rather than conventional?

For reference:
Gas prices are approximately **$2.50 per mile**
Driving **a hybrid car** is approximately **$0.50 per mile**
Driving **a fully-electric car** costs approximately **$0.30 per mile**

0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20

Cent per Mile
(Dollars)

Are you willing to **use a self-driving car** to make the **same trip**, if your **travel time is the same as before**?

- Yes, I am willing to use a self-driving car for the trip if the travel time is the same.
- I may willing to use a self-driving car for the trip if the travel time is the same.
- No, I am not willing to use a self-driving car for the trip if the travel time is the same.
- I do not know.

You answered previously that you are **willing to use a self-driving car** to make the **same trip** and if your travel time **is the same**. What is the **most per mile** (Dollars) that you are willing to pay to use the **self-driving car** rather than conventional?

For reference:
Gas prices are approximately **$2.50 per mile**
Driving **a hybrid car** is approximately **$0.50 per mile**
Driving **a fully-electric car** costs approximately **$0.30 per mile**

0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20

Cent per Mile
(Dollars)

Are you willing to **use a self-driving car** to make the **same trip**, if your **travel time rises by 10%**?

- Yes, I am willing to use a self-driving car for the trip if the travel time rises by 10%.
- I may willing to use a self-driving car for the trip if the travel time rises by 10%.
- No, I am not willing to use a self-driving car for the trip if the travel time rises by 10%.
- I do not know.

You answered previously that you are **willing to use a self-driving car** to make the **same trip** and if your travel time **rises by 10%**. What is the **most per mile** (Dollars) that you are willing to pay to use the **self-driving car** rather than conventional?

For reference:
Gas prices are approximately **$2.50 per mile**
Driving **a hybrid car** is approximately **$0.50 per mile**
Driving **a fully-electric car** costs approximately **$0.30 per mile**

0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20

Cent per Mile
(Dollars)

Cost per day
$ _____

Are you willing to **use a self-driving car** to make the **same trip** if you **lower time now by 20%**?

You: I am willing to use a self-driving car for the trip if the travel time now by 20%.
I may ask to pay a fee for using a self-driving car if the travel time now by 20%.
No, I am not willing to use a self-driving car for the trip if the travel time now by 20%.

You answered previously that you are **willing to use a self-driving car** to make the **same trip** in your **travel time by 20%**. What is the **cost per mile** (I think that you are willing to pay to use the **self-driving car** under this condition?

For reference:
It is **typically more expensive** to **drive** a car than **take a taxi**.
It is **typically more expensive** to **take a taxi** than **take public transportation**. **$3.00 per mile**
It is **typically cheaper** to **take a taxi** than **take public transportation**.

Cents
0 5 10 15 20 25 30 35 40 45 50 55 60 65 70 75 80 85 90 95 100 105 110 115 120 125 130 135 140

Cost per mile
$ _____

In your trip, did you **stop** for anything, such as banners, highway rest areas, restaurants, or accommodations (including overnight stays) during your trip, such as your destination? **Not Destination**

Yes, I stopped on the way to the destination
Yes, I stopped at the destination
No, I did not stop

Self-driving cars are **Direct travels** and have the potential to offer **unnecessary stops**. However, traveling using **self-driving cars may cost more**. Which **Direct travel self-driving cars for your trip**, depending on the following cost assumptions?

	The trip is **cheaper** than **Direct travel**	The trip is **cheaper** than **Direct travel**	The trip has the **same cost** as **Direct travel**	The trip is **pricier** than **Direct travel**	The trip is **pricier** than **Direct travel**
Unlikely	○	○	○	○	○
Less likely	○	○	○	○	○
Neutral	○	○	○	○	○
More likely	○	○	○	○	○
Absolutely	○	○	○	○	○

Would you consider making **additional stops during the trip** either for leisure or business purposes, if you were traveling using **self-driving car travel**?

Yes, I would consider making more stops
No, I would not consider making more stops
No, I would have made these stops (leisure)
No, I would have made these stops (business)

Would you have **changed your destination to a new place** if you were making the same trip using **self-driving car travel**?

Yes, I would have chosen a destination with a further distance
Yes, I would have chosen a destination with a shorter distance
I may have changed my destination choice
No, I would not have changed my destination

In your trip, how long did you **stop** at your destination?
The **minutes** spending nights during travel
(Please number number of nights and stays)

Note: If you are considering a round trip (planning to return to your home in the near future), please enter travel time **only for one direction**.

_____ minutes

How many of your children (if any) do you have with?

0
1
2
Prefer not to answer

How long would you be **willing to extend/shorten your trip**, if you were traveling using **a self-driving car travel**?

○ more days ○ same trip length ○ fewer days ○ fewer nights

Who did you travel with on **last home-to-work trip**? (Pick all that apply)
(If you traveled alone, please leave this section filled with zeros.)

Family members	0
Friends	0
Colleagues and/or associates	0
Other (please specify)	0
Total	0

How many of your children (if any) did you travel with?

0
1
2
Prefer not to answer

If self-driving cars were available for this trip, would you have travelled with more people?
Pick from **about** and have **more** and **exactly** and **fewer** (pick one).
(If you wouldn't have taken a private car, please leave this section filled with zeros.)

Family members	0
Friends	0
Colleagues and/or associates	0
Other (please specify)	0
Total	0

If self-driving cars were available for this trip, would you have taken children with you?

Yes, I would have taken children with me
No, I would not have taken children with me
No, I would have taken children with me

What was your estimated travel **time** by car?
Please round up (round up) and **just** for **others** (round up).

If you are unsure of the cost of your trip, the website may help in estimating:
URL: http://www.kayak.com/cars

Note: If you are considering a round trip (planning to return to your home in the near future), please enter **cost for one direction**.

Accommodation (hotel, Airbnb, cabin rental, etc.) $ _____
Fuel $ _____
Other transportation costs (Examples: airplane tickets, train tickets, taxi or bus fares, tolls, etc.) $ _____
Total $ _____

How much of the total cost was **covered by someone other than yourself**?
Please give a **percentage** estimate.

Note: If you are considering a round trip (planning to return to your home in the near future), please enter **cost for one direction**.

0 10 20 30 40 50 60 70 80 90 100

Percentage of cost covered by someone other **than** yourself
%

How much **more** are you willing to pay **to use a self-driving car instead** for this long-distance trip?

Percentage of cost **more**
%

Long-Distance Future Scenario Questions

In the **next 10 to 15 years**, suppose the **self-driving cars** are the **cheaper** and **affordable** for you. Compared to the trips you did last year, would you be willing to take more long-distance trips using **self-driving car** instead of a human-driven car?

Self-Driving Car

In the **hypothetical future** of affordable self-driving cars, how do you think your household asset **change** (increase or decrease) if you **lower the cost** of your **long-distance travel using self-driving car**?

I will travel for fewer trips
I will travel for longer distance trips
I will travel for longer trips
I will take more trips but shorter trips
I will take more trips but longer trips
No, I would not change anything
Other (please specify)

In the **hypothetical future** of affordable self-driving cars, **by what percentage** do you think your household would **increase your travel distance** (miles per year) if you can take **long-distance travel** using **a self-driving car**?

No increase (0 more distance (0%)
About 10% more
About 20% more
About 75% more
About 100% more
More than Hundred (200%)
More than triples (300%)

Which of the following factors **would apply** your case and **available** for **long-distance trips**? (Include choices)

I would choose a different destination
I would travel with more people
I would travel for longer trips
Other (please specify)

If self-driving cars were available for **long-distance trips**, what would your departure time preference be?

Morning
Afternoon
Afternoon
Night
It does not matter
Other (please specify)

If self-driving cars were available for long-distance trips, would you consider staying in a hotel along the way if your destination? (Assume the trip includes overnight hours)

Yes, I would stay in a hotel
No, I would not stay in a hotel
No, I would prefer to sleep sitting in a hotel
Other (please specify)

In the **hypothetical future** of affordable self-driving cars, what percentage do you think your household would **increase your travel distance** (miles per year) if you can take **long-distance travel** using **a self-driving car**?

	Vacation/Recreation	Personal Local with family and friends	Business (Conference and all other trips)
Personal owned self-driving car	○	○	○
Self-driving rental car	○	○	○
Shared self-driving car	○	○	○
Conventional car	○	○	○
Conventional rental car	○	○	○
Bus	○	○	○
Train	○	○	○
Airplane	○	○	○
Road Ship	○	○	○
Not applicable	○	○	○

In the **hypothetical future** of affordable self-driving cars, what **long-distance travel mode choices** for **one-way trips** between **10 and 100 miles** long (**or** Please select one for each category)

	Vacation/Recreation	Personal Local with family and friends	Business (Conference and all other trips)
Personal owned self-driving car	○	○	○
Self-driving rental car	○	○	○
Shared self-driving car	○	○	○
Conventional car	○	○	○
Conventional rental car	○	○	○
Bus	○	○	○
Train	○	○	○
Airplane	○	○	○
Road Ship	○	○	○
Not applicable	○	○	○

In the **hypothetical future** of affordable self-driving cars, what **long-distance travel mode choices** for **one-way trips longer than 100 miles** (**or** Please select one for each category)

	Vacation/Recreation	Personal Local with family and friends	Business (Conference and all other trips)
Personal owned self-driving car	○	○	○
Self-driving rental car	○	○	○
Shared self-driving car	○	○	○
Conventional car	○	○	○
Conventional rental car	○	○	○
Bus	○	○	○
Train	○	○	○
Airplane	○	○	○
Road Ship	○	○	○
Not applicable	○	○	○

In the **hypothetical future** of affordable self-driving cars, what **Shuttle**s, what will your **long-distance travel mode choices** for **one-way trips** between **10 and 100 miles** long (**or** Please select one for each category)

	Vacation/Recreation	Personal Local with family and friends	Business (Conference and all other trips)
Personal owned self-driving car	○	○	○
Self-driving rental car	○	○	○
Shared self-driving car	○	○	○
Conventional car	○	○	○
Conventional rental car	○	○	○
Bus	○	○	○
Train	○	○	○
Airplane	○	○	○
Road Ship	○	○	○
Not applicable	○	○	○

Shuttles 2. Consider a scenario where **COVID 19** has **also vanishe is entirely** and more than **50% of the population** has received both **a different COVID vaccine** (Pfizer, Moderna, or J&J).

In the **hypothetical future** of affordable self-driving cars under **Shuttles 2**, what will your **long-distance travel mode choices** for **one-way trips longer than 100 miles** (**or** Please select one for each category)

	Vacation/Recreation	Personal Local with family and friends	Business (Conference and all other trips)
Personal owned self-driving car	○	○	○
Self-driving rental car	○	○	○
Shared self-driving car	○	○	○
Conventional car	○	○	○
Conventional rental car	○	○	○
Bus	○	○	○
Train	○	○	○
Airplane	○	○	○
Road Ship	○	○	○
Not applicable	○	○	○

Shuttles 2. Consider a scenario where **COVID 19** has **also vanishe is entirely** and more than **50% of the population** has received **a different COVID vaccine** (Pfizer, Moderna, or J&J).

In the **hypothetical future** of affordable self-driving cars under **Shuttles 2**, what will your **long-distance travel mode choices** for **one-way trips** between **10 and 100 miles** long (**or** Please select one for each category)

	Vacation/Recreation	Personal Local with family and friends	Business (Conference and all other trips)
Own self-driving car	○	○	○
Shared self-driving car	○	○	○
Conventional car	○	○	○
Conventional rental car	○	○	○
Bus	○	○	○
Train	○	○	○
Airplane	○	○	○
Road Ship	○	○	○
Not applicable	○	○	○

Demographics

Including yourself, **how many people** live in your **household**? (Please do not include anyone who usually lives somewhere else or is just visiting, such as a college student away at school, or not include your roommates if you do not support each other financially.)

1
2
3
4
5 or more (please specify)

What is your **age**?

Less than 18 years
18 to 24 years
25 to 34 years
35 to 44 years
45 to 54 years
55 to 64 years
65 or more years

What **gender** do you identify with?

Male
Female
Other
Prefer not to say

Which of the following best describes your **ethnicity**?

American Indian/African American
Asian/Pacific Islander
Black/African American
American Indian/Native American
White/European White/Caucasian
Other (please specify)
Prefer not to say
Other (please specify)

How many children (those under the age of 16 years) usually live in your home?

0
1
2
3
4 or more (please specify)

Which of the following best describes your **annual income**? (Include income from all sources, before taxes, for all members of your household?

Less than $10,000
$10,000 to $14,999
$15,000 to $19,999
$20,000 to $24,999
$25,000 to $29,999
$30,000 to $34,999
$35,000 to $39,999
$40,000 to $44,999
$45,000 to $49,999
$50,000 to $59,999
$60,000 to $69,999
$70,000 to $79,999
$80,000 to $89,999
$90,000 to $99,999
$100,000 to $124,999
$125,000 or more

What is the **highest level of education** you have completed?

did not complete high school.
completed **high school** (or equivalent).
completed **some college**, but **no degree**.
completed **associate degree** (2-year degree).
completed a **Bachelor's degree**.
completed a **Master's degree**.
completed **Ph.D.**

Which of the following best describes your **employment status**?

Employed, working 30 or more hours per week (including self-employed).
Employed, working 15-29 hours per week.
Student, working part-time.
Student, not working.
Not employed (looking for work).
Not employed, not looking for work.
Retired.
Disabled, not able to work.

What kind of business or industry do you work, or have worked, in particularly, or are planning to work? Include the main activity, product, or service provided at the location where employed. (For example: elementary school, residential construction, etc.)

In general, how **often** do you travel long distances (75 miles one-way or 150+ miles round-trip) for **work**?

Never
Less than once a year
1-2 times a year
3-5 times a year
6-12 times a year
More than 12 times a year

What is your **marital status**?

Single
Married
Separated
Widowed

What is your **9-digit home zip code**? You can find your zip code here:
https://tools.usps.com/go/ZipLookupAction.htm

Do 192W 9876

Zip code
_____

I do not feel 9-digit zip

Where do you **live**?

	City	Country

What is the **Airport Code** for your **closest airport**?
Example: The **Airport Code** for Austin-Bergstrom International airport is **AUS**.

You can find the airport code here: https://www.faa.gov/nextgen/cip/airport_facility/

If unknown, please add the **full name** of the airport.

Are you within the population who have **high-risk factors for severe COVID-19** (including elderly people, people with health conditions, and pregnant women)?

Yes
No

Do you have any household members who **have high-risk factors for severe COVID-19** (including elderly people, people with health conditions, and pregnant women)?

Yes
No

Do you have any household members who **require special attention** while you are away from your household, such as **young children** or those with **disabilities**?

Yes
No

Do any of your household members over the age of 16 who have disabilities that may limit their **driving ability**?

Yes
No
Not sure

Do you have at least one **pet** which would need someone other than yourself to care for them while you are gone?

Yes, I have a pet and need someone (such as another household member) to care for them while I am gone.
Yes, I have a pet but do not need anyone to care for them while I am gone.
No, I do not have any pets.

How many **automobiles, vans, and trucks** does your household own?

My household does not own a vehicle.
1
2
3
4
5 or more vehicles

How would you describe your level of **happiness** over the past **year**?

Very Unhappy | Moderately unhappy | Neutral | Moderately Happy | Very Happy

End of the Survey

If there are **any other long-distance trips** that you would like to tell us about, **please enter them below and include any relevant details** (origin & destination, number of days you were on your trip, what transportation you used to get there, costs, reason for trip, whether you could have participated remotely, and anything else you think may be important.)

When answering this survey, did you use **a calendar, journal, or other documentation** to help you remember details about your trips?

Yes
No
Other (please specify)

We would like to **send you a copy of our report**, if that is of interest to you, and to contact you with any **follow-up questions** we may have. (This is especially helpful if we need to clarify an answer provided here.) Please allow us to do that by providing your **email address.**

THANK YOU FOR COMPLETING OUR SURVEY!

For SurveyCircle users (www.surveycircle.com)
The Survey Code is:

Do you have any **comments or suggestions** for us?

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