

**2021 PEW RESEARCH CENTER'S AMERICAN TRENDS PANEL  
WAVE 99 NOVEMBER SURVEY  
NOVEMBER 1-7, 2021<sup>1</sup>**

**ASK FORM 1 ONLY [XFORM=1]:**

TECH1 Overall, would you say technology has had a mostly positive effect on our society or a mostly negative effect on our society?

**RESPONSE OPTIONS:**

- 1 Mostly positive
- 2 Mostly negative
- 3 Equal positive and negative effects

Overall, would you say technology has had a mostly positive effect on our society or a mostly negative effect on our society?

- ☐ Mostly positive
- ☐ Mostly negative
- ☐ Equal positive and negative effects

Previous

Next

**ASK FORM 2 ONLY [XFORM=2]:**

SC1 Overall, would you say science has had a mostly positive effect on our society or a mostly negative effect on our society?

**RESPONSE OPTIONS:**

- 1 Mostly positive
- 2 Mostly negative
- 3 Equal positive and negative effects

Overall, would you say science has had a mostly positive effect on our society or a mostly negative effect on our society?

- ☐ Mostly positive
- ☐ Mostly negative
- ☐ Equal positive and negative effects

Previous

Next

<sup>1</sup> Open-end responses are excluded from public datasets to protect the confidentiality of ATP panelists

**ASK ALL:**

CNCEXC

Artificial intelligence computer programs are designed to learn tasks that humans typically do, for instance recognizing speech or pictures. Overall, would you say the increased use of artificial intelligence computer programs in daily life makes you feel...  
**[RANDOMIZE RESPONSE OPTIONS 1 AND 2, WITH OPTION 3 ALWAYS LAST]**

**RESPONSE OPTIONS:**

- 1 More excited than concerned
- 2 More concerned than excited
- 3 Equally concerned and excited **[ANCHOR]**

Artificial intelligence computer programs are designed to learn tasks that humans typically do, for instance recognizing speech or pictures. Overall, would you say the increased use of artificial intelligence computer programs in daily life makes you feel...

☐ More excited than concerned  
☐ More concerned than excited  
☐ Equally concerned and excited

Previous Next

**IF MORE EXCITED ABOUT AI [CNCEXC=1]] ASK:**

EXCITEOE

What is the main reason you are more excited than concerned about the increased use of artificial intelligence computer programs in daily life?

**[OPEN END; TEXT BOX]**

What is the main reason you are more excited than concerned about the increased use of artificial intelligence computer programs in daily life?

Previous Next

**IF MORE CONCERNED ABOUT AI [CNCEXC=2] ASK:**

CONCERNOE

What is the main reason you are more concerned than excited about the increased use of artificial intelligence computer programs in daily life?

**[OPEN END; TEXT BOX]**

What is the main reason you are more concerned than excited about the increased use of artificial intelligence computer programs in daily life?

Previous

Next

**ASK ALL:**

ALGFAIR

Do you think it is possible or not possible for people to design artificial intelligence computer programs that can consistently make fair decisions in complex situations?

- 1 Possible
- 2 Not possible
- [SPACE]**
- 3 Not sure

Do you think it is possible or not possible for people to design artificial intelligence computer programs that can consistently make fair decisions in complex situations?

- ☐ Possible
- ☐ Not possible
- ☐ Not sure

Previous

Next

**ASK ALL:**

DISCRIM1

Thinking about the people who design artificial intelligence computer programs, how well do you think they take into account the experiences and views of each of the following?  
**[RANDOMIZE a-d AND e-f IN BLOCKS; RANDOMIZE ORDER OF BLOCKS; SHOW BLOCKS ON SEPARATE PAGES]**

- a. White adults
- b. Black adults
- c. Hispanic adults
- d. Asian adults
- e. Men
- f. Women

**RESPONSE OPTIONS:**

- 1 Very well
- 2 Somewhat well
- 3 Not too well
- 4 Not at all well

**[SPACE]**

- 5 Not sure

Thinking about the people who design artificial intelligence computer programs, how well do you think they take into account the experiences and views of each of the following?

**White adults**

- ☐ Very well
- ☐ Somewhat well
- ☐ Not too well
- ☐ Not at all well

☐ Not sure

**Black adults**

- ☐ Very well
- ☐ Somewhat well
- ☐ Not too well
- ☐ Not at all well

☐ Not sure

**Asian adults**

- ☐ Very well
- ☐ Somewhat well
- ☐ Not too well
- ☐ Not at all well

☐ Not sure

**Hispanic adults**

- ☐ Very well
- ☐ Somewhat well
- ☐ Not too well
- ☐ Not at all well

☐ Not sure

Previous

Next

Thinking about the people who design artificial intelligence computer programs, how well do you think they take into account the experiences and views of each of the following?

Men

- ☐ Very well
- ☐ Somewhat well
- ☐ Not too well
- ☐ Not at all well
- ☐ Not sure

Women

- ☐ Very well
- ☐ Somewhat well
- ☐ Not too well
- ☐ Not at all well
- ☐ Not sure

Previous

Next

**ASK ALL:**  
POSNEGAI

How excited or concerned would you be if artificial intelligence computer programs could do each of the following? **[RANDOMIZE ITEMS]**

- a. Know people's thoughts and behaviors
- b. Perform household chores
- c. Make important life decisions for people
- d. Diagnose medical problems
- e. Perform repetitive workplace tasks
- f. Handle customer service calls

**RESPONSE OPTIONS:**

- 1 Very excited
- 2 Somewhat excited
- 3 Equal excitement and concern
- 4 Somewhat concerned
- 5 Very concerned

How excited or concerned would you be if artificial intelligence computer programs could do each of the following?

**Perform household chores**

- ☐ Very excited
- ☐ Somewhat excited
- ☐ Equal excitement and concern
- ☐ Somewhat concerned
- ☐ Very concerned

**Handle customer service calls**

- ☐ Very excited
- ☐ Somewhat excited
- ☐ Equal excitement and concern
- ☐ Somewhat concerned
- ☐ Very concerned

**Diagnose medical problems**

- ☐ Very excited
- ☐ Somewhat excited
- ☐ Equal excitement and concern
- ☐ Somewhat concerned
- ☐ Very concerned

**Know people's thoughts and behaviors**

- ☐ Very excited
- ☐ Somewhat excited
- ☐ Equal excitement and concern
- ☐ Somewhat concerned
- ☐ Very concerned

Make important life decisions for people

- ☐ Very excited
- ☐ Somewhat excited
- ☐ Equal excitement and concern
- ☐ Somewhat concerned
- ☐ Very concerned

Perform repetitive workplace tasks

- ☐ Very excited
- ☐ Somewhat excited
- ☐ Equal excitement and concern
- ☐ Somewhat concerned
- ☐ Very concerned

Previous

Next

**ASK ALL:**

POSNEGHE

How excited or concerned would you be about potential new techniques that could change human abilities in the following ways? **[RANDOMIZE ITEMS]**

- a. Slow the aging process to allow the average person to live decades longer
- b. Allow some people to far more quickly and accurately process information
- c. Prevent some people from getting serious diseases or health conditions
- d. Allow some people greatly increased strength for lifting heavy objects
- e. Allow some people to see shapes and patterns in crowded spaces far beyond what the typical person can see today
- f. Allow some people to hear sounds far beyond what the typical person can hear today

**RESPONSE OPTIONS:**

- 1 Very excited
- 2 Somewhat excited
- 3 Equal excitement and concern
- 4 Somewhat concerned
- 5 Very concerned

How excited or concerned would you be about potential new techniques that could change human abilities in the following ways?

Allow some people greatly increased strength for lifting heavy objects

- ☐ Very excited
- ☐ Somewhat excited
- ☐ Equal excitement and concern
- ☐ Somewhat concerned
- ☐ Very concerned

Allow some people to far more quickly and accurately process information

- ☐ Very excited
- ☐ Somewhat excited
- ☐ Equal excitement and concern
- ☐ Somewhat concerned
- ☐ Very concerned

Prevent some people from getting serious diseases or health conditions

- ☐ Very excited
- ☐ Somewhat excited
- ☐ Equal excitement and concern
- ☐ Somewhat concerned
- ☐ Very concerned

Allow some people to see shapes and patterns in crowded spaces far beyond what the typical person can see today

- ☐ Very excited
- ☐ Somewhat excited
- ☐ Equal excitement and concern
- ☐ Somewhat concerned
- ☐ Very concerned



Allow some people to hear sounds far beyond what the typical person can hear today

- ☐ Very excited
- ☐ Somewhat excited
- ☐ Equal excitement and concern
- ☐ Somewhat concerned
- ☐ Very concerned

Slow the aging process to allow the average person to live decades longer

- ☐ Very excited
- ☐ Somewhat excited
- ☐ Equal excitement and concern
- ☐ Somewhat concerned
- ☐ Very concerned

Previous

Next

**[PROGRAMMING NOTE: ASK BLOCKS 1-3 IF FORM 1; RANDOMIZE ORDER OF BLOCKS]**

## BLOCK 1

### ASK FORM 1 ONLY [XFORM=1]:

**SMALGVIG** Computer programs can be trained to review large amounts of information and learn to identify patterns. These programs, called algorithms, are widely used by social media companies to find false information about important topics that appears on their sites.

### ASK FORM 1 ONLY [XFORM=1]:

**SMALG1** How much have you heard or read about computer programs used by social media companies to find false information on their sites?

- 1 A lot
- 2 A little
- 3 Nothing at all

Computer programs can be trained to review large amounts of information and learn to identify patterns. These programs, called algorithms, are widely used by social media companies to find false information about important topics that appears on their sites.

How much have you heard or read about computer programs used by social media companies to find false information on their sites?

- ☐ A lot
- ☐ A little
- ☐ Nothing at all

Previous

Next

**ASK FORM 1 ONLY [XFORM=1]:**

SMALG2 Do you think widespread use of computer programs by social media companies to find false information on their sites has been a...

1 Good idea for society

2 Bad idea for society

**[SPACE]**

3 Not sure

Do you think widespread use of computer programs by social media companies to find false information on their sites has been a...

☐ Good idea for society

☐ Bad idea for society

☐ Not sure

Previous

Next

**ASK FORM 1 INTERNET USERS ONLY [XFORM=1 AND XTABLET=2]:**

SMALG3 Have you ever seen information on social media sites that has been flagged or labeled as false?

1 Yes, I have

2 No, I have not

3 I don't use social media sites

Have you ever seen information on social media sites that has been flagged or labeled as false?

☐ Yes, I have

☐ No, I have not

☐ I don't use social media sites

Previous

Next

**ASK FORM 1 ONLY [XFORM=1]:**

SMALG4 Do you think widespread use of computer programs by social media companies to find false information is making the following happen on their sites? **[RANDOMIZE ITEMS]**

a. News and information are being wrongly removed

b. Political viewpoints are being censored

c. It is getting easier to find trustworthy information

d. It is allowing people to have more meaningful conversations

**RESPONSE OPTIONS:**

1 Definitely happening

2 Probably happening

3 Probably NOT happening

4 Definitely NOT happening

Do you think widespread use of computer programs by social media companies to find false information is making the following happen on their sites?

It is getting easier to find trustworthy information

- ☐ Definitely happening
- ☐ Probably happening
- ☐ Probably NOT happening
- ☐ Definitely NOT happening

Political viewpoints are being censored

- ☐ Definitely happening
- ☐ Probably happening
- ☐ Probably NOT happening
- ☐ Definitely NOT happening

News and information are being wrongly removed

- ☐ Definitely happening
- ☐ Probably happening
- ☐ Probably NOT happening
- ☐ Definitely NOT happening

It is allowing people to have more meaningful conversations

- ☐ Definitely happening
- ☐ Probably happening
- ☐ Probably NOT happening
- ☐ Definitely NOT happening

Previous

Next

**ASK FORM 1 ONLY [XFORM=1]:**

SMALG5 How much control do you think users have over the things they see on social media sites?

- 1 A lot of control
- 2 A little control
- 3 No control
- [SPACE]**
- 4 Not sure

How much control do you think users have over the things they see on social media sites?

- ☐ A lot of control
- ☐ A little control
- ☐ No control
- ☐ Not sure

Previous

Next

**ASK FORM 1 ONLY [XFORM=1]:**

SMALG6 Which comes closer to your view, even if neither is exactly right?

When using computer programs to find false information on their sites, social media companies should give priority to... **[RANDOMIZE RESPONSE OPTIONS]**

- 1 Quick decisions, even if some accurate information gets mistakenly removed
- 2 Accurate decisions, even if some false information stays up on sites for a longer period of time

Which comes closer to your view, even if neither is exactly right?

When using computer programs to find false information on their sites, social media companies should give priority to...

- ☐ Accurate decisions, even if some false information stays up on sites for a longer period of time
- ☐ Quick decisions, even if some accurate information gets mistakenly removed

Previous

Next

**ASK FORM 1 ONLY [XFORM=1]:**

SMALG7 How much confidence do you have that social media companies will use computer programs appropriately to determine which information on their sites is false?

- 1 A great deal of confidence
- 2 A fair amount of confidence
- 3 Not too much confidence
- 4 No confidence at all

How much confidence do you have that social media companies will use computer programs appropriately to determine which information on their sites is false?

- ☐ A great deal of confidence
- ☐ A fair amount of confidence
- ☐ Not too much confidence
- ☐ No confidence at all

Previous

Next

**ASK FORM 1 ONLY [XFORM=1]:**

SMALG8 As the use of computer programs by social media companies to find false information on their sites has become widespread, which is your greater concern? **[RANDOMIZE RESPONSE OPTIONS]**

- 1 Government will go too far regulating their use
- 2 Government will not go far enough regulating their use

As the use of computer programs by social media companies to find false information on their sites has become widespread, which is your greater concern?

☐ Government will go too far regulating their use  
☐ Government will not go far enough regulating their use

Previous

Next

**ASK FORM 1 ONLY [XFORM=1]:**

SMALG9 How much of a role do you think each of the following groups should play in setting standards for how social media companies use computer programs to find false information on their sites? **[RANDOMIZE ITEMS]**

- a. Federal government agencies
- b. The social media companies that develop these computer programs
- c. Social media users

**RESPONSE OPTIONS:**

- 1 A major role
- 2 A minor role
- 3 No role at all

How much of a role do you think each of the following groups should play in setting standards for how social media companies use computer programs to find false information on their sites?

Social media users

☐ A major role  
☐ A minor role  
☐ No role at all

Federal government agencies

☐ A major role  
☐ A minor role  
☐ No role at all

The social media companies that develop these computer programs

- ☐ A major role
- ☐ A minor role
- ☐ No role at all

Previous

Next

**ASK FORM 1 ONLY [XFORM=1]:**

SMALG10 When creating computer programs to find false information, how important do you think it is for social media companies to include people of different... **[RANDOMIZE ITEMS]**

- a. Genders
- b. Racial and ethnic groups
- c. Political viewpoints

**RESPONSE OPTIONS:**

- 1 Extremely important
- 2 Very important
- 3 Somewhat important
- 4 A little important
- 5 Not at all important

When creating computer programs to find false information, how important do you think it is for social media companies to include people of different...

Political viewpoints

- ☐ Extremely important
- ☐ Very important
- ☐ Somewhat important
- ☐ A little important
- ☐ Not at all important

Genders

- ☐ Extremely important
- ☐ Very important
- ☐ Somewhat important
- ☐ A little important
- ☐ Not at all important

Racial and ethnic groups

- ☐ Extremely important
- ☐ Very important
- ☐ Somewhat important
- ☐ A little important
- ☐ Not at all important

Previous

Next

**ASK FORM 1 ONLY [XFORM=1]:**

SMALG11 Do you think the decisions made by social media companies about what information is false should be... **[RANDOMIZE RESPONSE OPTIONS 1 AND 2, WITH OPTIONS 3 AND 4 ALWAYS LAST]**

- 1 Mostly made by people
- 2 Mostly made by computer programs
- 3 A mix of both people and computer programs **[ANCHOR]**
- [SPACE]**
- 4 Not sure **[ANCHOR]**

Do you think the decisions made by social media companies about what information is false should be...

- ☐ Mostly made by people
- ☐ Mostly made by computer programs
- ☐ A mix of both people and computer programs
- ☐ Not sure

Previous

Next

**ASK FORM 1 ONLY [XFORM=1]:**

SMALG12 When it comes to finding false information on their sites, do you think computer programs used by social media companies do... **[RANDOMIZE RESPONSE OPTIONS 1 AND 2, WITH OPTIONS 3 AND 4 ALWAYS LAST]**

- 1 A better job than humans
- 2 A worse job than humans
- 3 About the same job as humans **[ANCHOR]**
- [SPACE]**
- 4 Not sure **[ANCHOR]**

When it comes to finding false information on their sites, do you think computer programs used by social media companies do...

- ☐ A worse job than humans
- ☐ A better job than humans
- ☐ About the same job as humans
- ☐ Not sure

Previous

Next

**ASK FORM 1 ONLY [XFORM=1]:**

SMALG13 Computer programs like the ones used by social media companies to find false information could be used for a number of purposes. Would you favor or oppose the use of computer programs to make final decisions about each of the following?  
**[RANDOMIZE ITEMS]**

- a. Which people should be approved for mortgages
- b. Which patients should get a medical treatment
- c. Which job applicants should move on to a next round of interviews
- d. Which people should be good candidates for parole

**RESPONSE OPTIONS:**

- 1 Favor
- 2 Oppose

**[SPACE]**

- 3 Not sure

Computer programs like the ones used by social media companies to find false information could be used for a number of purposes. Would you favor or oppose the use of computer programs to make final decisions about each of the following?

Which patients should get a medical treatment

- ☐ Favor
- ☐ Oppose
- ☐ Not sure

Which people should be approved for mortgages

- ☐ Favor
- ☐ Oppose
- ☐ Not sure



Which job applicants should move on to a next round of interviews

- ☐ Favor
- ☐ Oppose
- ☐ Not sure

Which people should be good candidates for parole

- ☐ Favor
- ☐ Oppose
- ☐ Not sure

Previous

Next

**[PROGRAMMING NOTE: ASK BLOCKS 1-3 IF FORM 1; RANDOMIZE ORDER OF BLOCKS]**

**BLOCK 2**

**ASK FORM 1 ONLY [XFORM=1]:**

**FACERECVIG** Facial recognition technology can identify someone by scanning their face in photos, videos or in real time. This technology could be used by police to look for people who may have committed a crime or monitor crowds in public spaces.

**ASK FORM 1 ONLY [XFORM=1]:**

**FACEREC1** How much have you heard or read about facial recognition technology by police?

- 1 A lot
- 2 A little
- 3 Nothing at all

Facial recognition technology can identify someone by scanning their face in photos, videos or in real time. This technology could be used by police to look for people who may have committed a crime or monitor crowds in public spaces.

How much have you heard or read about facial recognition technology by police?

- ☐ A lot
- ☐ A little
- ☐ Nothing at all

Previous

Next

**ASK FORM 1 ONLY [XFORM=1]:**

**FACEREC2** Do you think the widespread use of facial recognition technology by police would be a...

- 1 Good idea for society
- 2 Bad idea for society
- [SPACE]**
- 3 Not sure

Do you think the widespread use of facial recognition technology by police would be a...

- ☐ Good idea for society
- ☐ Bad idea for society
- ☐ Not sure

Previous

Next

**ASK FORM 1 ONLY [XFORM=1]:**

FACEREC3

If the use of facial recognition technology by police becomes widespread, do you think each of the following would happen? The police would... **[RANDOMIZE ITEMS]**

- a. Make more false arrests
- b. Solve crimes more quickly and efficiently
- c. Use the technology to monitor Black and Hispanic neighborhoods much more often than other neighborhoods
- d. Find more missing persons
- e. Be able to track everyone's location at all times
- f. Be better able to keep crowds under control

**RESPONSE OPTIONS:**

- 1 Definitely would happen
- 2 Probably would happen
- 3 Probably would NOT happen
- 4 Definitely would NOT happen

If the use of facial recognition technology by police becomes widespread, do you think each of the following would happen? The police would...

Solve crimes more quickly and efficiently

- ☐ Definitely would happen
- ☐ Probably would happen
- ☐ Probably would NOT happen
- ☐ Definitely would NOT happen

Make more false arrests

- ☐ Definitely would happen
- ☐ Probably would happen
- ☐ Probably would NOT happen
- ☐ Definitely would NOT happen

## Find more missing persons

- ☐ Definitely would happen
- ☐ Probably would happen
- ☐ Probably would NOT happen
- ☐ Definitely would NOT happen

## Be better able to keep crowds under control

- ☐ Definitely would happen
- ☐ Probably would happen
- ☐ Probably would NOT happen
- ☐ Definitely would NOT happen

## Be able to track everyone's location at all times

- ☐ Definitely would happen
- ☐ Probably would happen
- ☐ Probably would NOT happen
- ☐ Definitely would NOT happen

## Use the technology to monitor Black and Hispanic neighborhoods much more often than other neighborhoods

- ☐ Definitely would happen
- ☐ Probably would happen
- ☐ Probably would NOT happen
- ☐ Definitely would NOT happen

Previous

Next

**ASK FORM 1 ONLY [XFORM=1]:**

FACEREC4 Do you think the widespread use of facial recognition technology by police will make policing... **[RANDOMIZE RESPONSE OPTIONS 1 AND 2, WITH OPTION 3 ALWAYS LAST]**

**RESPONSE OPTIONS:**

- 1 More fair
- 2 Less fair
- 3 Not make much difference **[ANCHOR]**

Do you think the widespread use of facial recognition technology by police will make policing...

- ☐ Less fair
- ☐ More fair
- ☐ Not make much difference

Previous

Next

**ASK FORM 1 ONLY [XFORM=1]:**

FACEREC5 If the use of facial recognition technology by police becomes widespread, do you think crime would... **[RANDOMIZE RESPONSE OPTIONS 1 AND 2, WITH OPTION 3 ALWAYS LAST]**

- 1 Increase in the U.S.
- 2 Decrease in the U.S.
- 3 Stay about the same **[ANCHOR]**

If the use of facial recognition technology by police becomes widespread, do you think crime would...

☐ Decrease in the U.S.

☐ Increase in the U.S.

☐ Stay about the same

Previous

Next

**ASK FORM 1 ONLY [XFORM=1]:**

FACEREC6 How much of a role do you think each of the following groups should have in setting standards for how facial recognition technology is used by police? **[RANDOMIZE ITEMS]**

- a. Federal government agencies
- b. Companies that develop facial recognition technology
- c. Ordinary people
- d. Police departments that use facial recognition technology

**RESPONSE OPTIONS:**

- 1 A major role
- 2 A minor role
- 3 No role at all

How much of a role do you think each of the following groups should have in setting standards for how facial recognition technology is used by police?

Companies that develop facial recognition technology

☐ A major role

☐ A minor role

☐ No role at all

Police departments that use facial recognition technology

☐ A major role

☐ A minor role

☐ No role at all

Federal government agencies

☐ A major role

☐ A minor role

☐ No role at all

Ordinary people

☐ A major role

☐ A minor role

☐ No role at all

Previous Next

**ASK FORM 1 ONLY [XFORM=1]:**

FACEREC7 If the use of facial recognition technology by police becomes widespread, which is your greater concern? **[RANDOMIZE RESPONSE OPTIONS]**

- 1 Government will go too far regulating its use
- 2 Government will not go far enough regulating its use

If the use of facial recognition technology by police becomes widespread, which is your greater concern?

☐ Government will go too far regulating its use

☐ Government will not go far enough regulating its use

Previous Next

**ASK FORM 1 ONLY [XFORM=1]:**

FACEREC8 Would the use of facial recognition technology by police be more acceptable, less acceptable or would it make no difference if... **[RANDOMIZE ITEMS]**

- a. People without criminal records could opt-out of facial recognition databases
- b. People were notified of the public events and public spaces that were scanned for facial images
- c. Police officers were trained in how facial recognition systems can make errors in identifying people before they use it

**RESPONSE OPTIONS:**

- 1 More acceptable
- 2 Less acceptable
- 3 No difference

Would the use of facial recognition technology by police be more acceptable, less acceptable or would it make no difference if...

People were notified of the public events and public spaces that were scanned for facial images

☐ More acceptable  
☐ Less acceptable  
☐ No difference

Police officers were trained in how facial recognition systems can make errors in identifying people before they use it

☐ More acceptable  
☐ Less acceptable  
☐ No difference

People without criminal records could opt-out of facial recognition databases

☐ More acceptable  
☐ Less acceptable  
☐ No difference

Previous Next

**ASK FORM 1 ONLY [XFORM=1]:**

FACEREC9

Which of the following statements best describes your views, even if neither is exactly right? **[RANDOMIZE RESPONSE OPTIONS]**

- 1 People should assume they are being monitored when they are in public spaces
- 2 People should have a right to privacy when they are in public spaces

Which of the following statements best describes your views, even if neither is exactly right?

☐ People should assume they are being monitored when they are in public spaces  
☐ People should have a right to privacy when they are in public spaces

Previous Next

**ASK FORM 1 ONLY [XFORM=1]:**

FACEREC10

If a facial recognition program said that someone was involved in a crime, should that be good enough evidence for police to arrest them, even if there was a small chance the program was wrong?

- 1 Yes
- 2 No

If a facial recognition program said that someone was involved in a crime, should that be good enough evidence for police to arrest them, even if there was a small chance the program was wrong?

- ☐ Yes  
☐ No

Previous

Next

**ASK FORM 1 ONLY [XFORM=1]:**

FACEREC11 Would you consider each of the following uses of facial recognition technology by police to be acceptable or not acceptable? Scanning people ... **[RANDOMIZE ITEMS]**

- a. At public protests
- b. As they enter large events like concerts to see who is in the crowd
- c. As they walk down the street

**RESPONSE OPTIONS:**

- 1 Acceptable
- 2 Not acceptable

Would you consider each of the following uses of facial recognition technology by police to be acceptable or not acceptable? Scanning people...

At public protests

- ☐ Acceptable  
☐ Not acceptable

As they walk down the street

- ☐ Acceptable  
☐ Not acceptable

As they enter large events like concerts to see who is in the crowd

- ☐ Acceptable  
☐ Not acceptable

Previous

Next

**ASK FORM 1 ONLY [XFORM=1]:**

FACEREC12 Facial recognition technology could be used for a number of purposes. Would you favor or oppose the use of facial recognition technology for each of the following purposes? **[RANDOMIZE ITEMS]**

- a. Companies automatically tracking the attendance of their employees
- b. Social media sites automatically identifying people in photos
- c. Retail stores enhancing credit card payment security by confirming account holders at checkout
- d. Apartment buildings tracking who enters or leaves their buildings

**RESPONSE OPTIONS:**

- 1 Favor  
2 Oppose

**[SPACE]**

- 3 Not sure

Facial recognition technology could be used for a number of purposes. Would you favor or oppose the use of facial recognition technology for each of the following purposes?

Companies automatically tracking the attendance of their employees

- ☐ Favor  
☐ Oppose  
☐ Not sure

Apartment buildings tracking who enters or leaves their buildings

- ☐ Favor  
☐ Oppose  
☐ Not sure

Retail stores enhancing credit card payment security by confirming account holders at checkout

- ☐ Favor  
☐ Oppose  
☐ Not sure

Social media sites automatically identifying people in photos

- ☐ Favor  
☐ Oppose  
☐ Not sure

Previous

Next

**[PROGRAMMING NOTE: ASK BLOCKS 1-3 IF FORM 1; RANDOMIZE ORDER OF BLOCKS]**

**BLOCK 3****ASK FORM 1 ONLY [XFORM=1]:**

DCCARSVIG Driverless passenger vehicles, sometimes called self-driving cars, are equipped with software allowing them to operate with computer assistance. In the future, driverless passenger vehicles are expected to be able to operate entirely on their own without a human driver.



**ASK FORM 1 ONLY [XFORM=1]:**

DCARS1 How much have you heard or read about driverless passenger vehicles?

**RESPONSE OPTIONS:**

- 1 A lot
- 2 A little
- 3 Nothing at all

Driverless passenger vehicles, sometimes called self-driving cars, are equipped with software allowing them to operate with computer assistance. In the future, driverless passenger vehicles are expected to be able to operate entirely on their own without a human driver.

How much have you heard or read about driverless passenger vehicles?

- ☐ A lot
- ☐ A little
- ☐ Nothing at all

Previous

Next

**ASK FORM 1 ONLY [XFORM=1]:**

DCARS2 Do you think widespread use of driverless passenger vehicles would be a...

**RESPONSE OPTIONS:**

- 1 Good idea for society
- 2 Bad idea for society
- [SPACE]**
- 3 Not sure

Do you think widespread use of driverless passenger vehicles would be a...

- ☐ Good idea for society
- ☐ Bad idea for society
- ☐ Not sure

Previous

Next

**ASK FORM 1 ONLY [XFORM=1]:**

DCARS3 Would you personally want to ride in a driverless passenger vehicle, if you had the opportunity?

- 1 Definitely want
- 2 Probably want
- 3 Probably NOT want
- 4 Definitely NOT want

Would you personally want to ride in a driverless passenger vehicle, if you had the opportunity?

- ☐ Definitely want
- ☐ Probably want
- ☐ Probably NOT want
- ☐ Definitely NOT want

Previous

Next

**ASK FORM 1 ONLY [XFORM=1]:**

DCARS4 If the use of driverless passenger vehicles becomes widespread, do you think each of the following would happen? **[RANDOMIZE ITEMS]**

- a. Older adults and people with disabilities will be able to live more independently
- b. Many people who make their living by driving others or delivering things with passenger vehicles would lose their jobs
- c. Getting from place to place would be less stressful
- d. The computer systems in driverless passenger vehicles would be easily hacked in ways that put safety at risk

**RESPONSE OPTIONS:**

- 1 Definitely would happen
- 2 Probably would happen
- 3 Probably would NOT happen
- 4 Definitely would NOT happen

If the use of driverless passenger vehicles becomes widespread, do you think each of the following would happen?

Many people who make their living by driving others or delivering things with passenger vehicles would lose their jobs

- ☐ Definitely would happen
- ☐ Probably would happen
- ☐ Probably would NOT happen
- ☐ Definitely would NOT happen

The computer systems in driverless passenger vehicles would be easily hacked in ways that put safety at risk

- ☐ Definitely would happen
- ☐ Probably would happen
- ☐ Probably would NOT happen
- ☐ Definitely would NOT happen

Older adults and people with disabilities will be able to live more independently

- ☐ Definitely would happen
- ☐ Probably would happen
- ☐ Probably would NOT happen
- ☐ Definitely would NOT happen

Getting from place to place would be less stressful

- ☐ Definitely would happen
- ☐ Probably would happen
- ☐ Probably would NOT happen
- ☐ Definitely would NOT happen

Previous

Next

**ASK FORM 1 ONLY [XFORM=1]:**

DCARS5 If the use of driverless passenger vehicles becomes widespread, do you think that would... **[RANDOMIZE RESPONSE OPTIONS 1 AND 2, WITH OPTION 3 ALWAYS LAST; USE SAME ORDER FOR DCARS6]**

**RESPONSE OPTIONS:**

- 1 Increase the gap between higher and lower-income Americans
- 2 Decrease the gap between higher and lower-income Americans
- 3 Not make much difference **[ANCHOR]**

If the use of driverless passenger vehicles becomes widespread, do you think that would...

- ☐ Increase the gap between higher and lower-income Americans
- ☐ Decrease the gap between higher and lower-income Americans
- ☐ Not make much difference

Previous

Next

**ASK FORM 1 ONLY [XFORM=1]:**

DCARS6 If the use of driverless passenger vehicles becomes widespread, do you think that would... **[RANDOMIZE RESPONSE OPTIONS 1 AND 2, WITH OPTION 3 ALWAYS LAST; USE SAME ORDER FOR DCARS5]**

**RESPONSE OPTIONS:**

- 1 Increase the number of people killed or injured in traffic accidents
- 2 Decrease the number of people killed or injured in traffic accidents
- 3 Not make much difference **[ANCHOR]**

If the use of driverless passenger vehicles becomes widespread, do you think that would...

- ☐ Increase the number of people killed or injured in traffic accidents
- ☐ Decrease the number of people killed or injured in traffic accidents
- ☐ Not make much difference

Previous

Next

**ASK FORM 1 ONLY [XFORM=1]:**

DCARS7

In the case of an unavoidable accident, should the computer systems guiding driverless vehicles be designed to prioritize the safety of... **[RANDOMIZE RESPONSE OPTIONS 1 AND 2, WITH OPTION 3 ALWAYS LAST]**

- 1 The vehicle's passengers
- 2 Those outside of the vehicle
- [SPACE]**
- 3 Not sure **[ANCHOR]**

In the case of an unavoidable accident, should the computer systems guiding driverless vehicles be designed to prioritize the safety of...

- ☐ The vehicle's passengers
- ☐ Those outside of the vehicle
- ☐ Not sure

Previous

Next

**ASK FORM 1 ONLY [XFORM=1]**

DCARS8

How much of a role do you think each of the following groups should have in setting standards for how driverless passenger vehicles are used? **[RANDOMIZE ITEMS]**

- a. Federal government agencies
- b. The companies that develop driverless passenger vehicles
- c. The people who use driverless passenger vehicles
- d. The dealerships that sell driverless passenger vehicles

**RESPONSE OPTIONS:**

- 1 A major role
- 2 A minor role
- 3 No role at all

How much of a role do you think each of the following groups should have in setting standards for how driverless passenger vehicles are used?

The dealerships that sell driverless passenger vehicles

- ☐ A major role
- ☐ A minor role
- ☐ No role at all

Federal government agencies

- ☐ A major role
- ☐ A minor role
- ☐ No role at all

The companies that develop driverless passenger vehicles

- ☐ A major role
- ☐ A minor role
- ☐ No role at all

The people who use driverless passenger vehicles

- ☐ A major role
- ☐ A minor role
- ☐ No role at all

Previous

Next

#### ASK FORM 1 ONLY [XFORM=1]:

DCARS9 If the use of driverless passenger vehicles becomes widespread, which is your greater concern? **[RANDOMIZE RESPONSE OPTIONS]**

#### RESPONSE OPTIONS:

- 1 Government will go too far regulating their use
- 2 Government will not go far enough regulating their use

If the use of driverless passenger vehicles becomes widespread, which is your greater concern?

- ☐ Government will go too far regulating their use
- ☐ Government will not go far enough regulating their use

Previous

Next

**ASK FORM 1 ONLY [XFORM=1]:**

DCARS10 Which statement comes closer to your view when it comes to ensuring the safety and effectiveness of driverless passenger vehicles? **[RANDOMIZE RESPONSE OPTIONS]**  
{new}

Driverless passenger vehicles should be tested using...

- 1 Existing standards used for regular passenger vehicles
- 2 A higher standard than used for regular passenger vehicle

Which statement comes closer to your view when it comes to ensuring the safety and effectiveness of driverless passenger vehicles?

Driverless passenger vehicles should be tested using...

- ☐ Existing standards used for regular passenger vehicles
- ☐ A higher standard than used for regular passenger vehicle

Previous

Next

**ASK FORM 1 ONLY [XFORM=1]:**

DCARS11 Would the use of driverless passenger vehicles be more acceptable, less acceptable or would it make no difference in each of the following circumstances? **[RANDOMIZE ITEMS]**

- a. They were required to travel in dedicated lanes
- b. They were required to be labeled as driverless in order to be easily identified
- c. If regular reports about the number of accidents caused by them were required
- d. If someone in the vehicle was required to have a driver's license

**RESPONSE OPTIONS:**

- 1 More acceptable
- 2 Less acceptable
- 3 No difference

Would the use of driverless passenger vehicles be more acceptable, less acceptable or would it make no difference in each of the following circumstances?

They were required to travel in dedicated lanes

- ☐ More acceptable
- ☐ Less acceptable
- ☐ No difference

If regular reports about the number of accidents caused by them were required

- ☐ More acceptable
- ☐ Less acceptable
- ☐ No difference

If someone in the vehicle was required to have a driver's license

- ☐ More acceptable  
☐ Less acceptable  
☐ No difference

They were required to be labeled as driverless in order to be easily identified

- ☐ More acceptable  
☐ Less acceptable  
☐ No difference

Previous

Next

**ASK FORM 1 ONLY [XFORM=1]:**

DCARS12 If the use of driverless passenger vehicles became widespread, how comfortable would you feel sharing the road with them?

- 1 Extremely comfortable  
 2 Very comfortable  
 3 Somewhat comfortable  
 4 Not too comfortable  
 5 Not comfortable at all

If the use of driverless passenger vehicles became widespread, how comfortable would you feel sharing the road with them?

- ☐ Extremely comfortable  
☐ Very comfortable  
☐ Somewhat comfortable  
☐ Not too comfortable  
☐ Not comfortable at all

Previous

Next

**ASK FORM 1 ONLY [XFORM=1]:**

DCARS13 The technology used to operate driverless passenger vehicles could be used for a number of purposes. Would you favor or oppose the use of this technology in each of the following purposes? **[RANDOMIZE ITEMS]**

- a. Taxis and ride-sharing vehicles  
 b. 18-wheeler trucks  
 c. Buses for public transportation  
 d. Delivery vehicles

**RESPONSE OPTIONS:**

- 1 Favor  
 2 Oppose

**[SPACE]**

- 3 Not sure

The technology used to operate driverless passenger vehicles could be used for a number of purposes. Would you favor or oppose the use of this technology in each of the following purposes?

Delivery vehicles

- ☐ Favor
- ☐ Oppose
- ☐ Not sure

Taxis and ride-sharing vehicles

- ☐ Favor
- ☐ Oppose
- ☐ Not sure

18-wheeler trucks

- ☐ Favor
- ☐ Oppose
- ☐ Not sure

Buses for public transportation

- ☐ Favor
- ☐ Oppose
- ☐ Not sure

Previous

Next

**[PROGRAMMING NOTE: ASK BLOCKS 4-6 IF FORM 2; RANDOMIZE ORDER OF BLOCKS]**

**BLOCK 4**

**ASK FORM 2 ONLY [XFORM=2]:**

CHIPVIG Computer chips are being developed which could be surgically implanted in a person's brain. In the future, this could make it possible for people with the computer chip implants to far more quickly and accurately process information.

**ASK FORM 2 ONLY [XFORM=2]:**

BCHIP1 How much have you heard or read about computer chip implants in the brain that could make it possible for people to far more quickly and accurately process information?

- 1 A lot
- 2 A little
- 3 Nothing at all



Computer chips are being developed which could be surgically implanted in a person's brain. In the future, this could make it possible for people with the computer chip implants to far more quickly and accurately process information.

How much have you heard or read about computer chip implants in the brain that could make it possible for people to far more quickly and accurately process information?

- ☐ A lot
- ☐ A little
- ☐ Nothing at all

Previous

Next

**ASK FORM 2 ONLY [XFORM=2]:**

BCHIP2 Do you think widespread use of computer chip implants in the brain allowing people to far more quickly and accurately process information would be a...

- 1 Good idea for society
- 2 Bad idea for society

**[SPACE]**

- 3 Not sure

Do you think widespread use of computer chip implants in the brain allowing people to far more quickly and accurately process information would be a...

- ☐ Good idea for society
- ☐ Bad idea for society
- ☐ Not sure

Previous

Next

**ASK FORM 2 ONLY [XFORM=2]:**

BCHIP3 Would you personally want a computer chip implant in the brain, allowing you to far more quickly and accurately process information, if you had the opportunity?

- 1 Definitely want
- 2 Probably want
- 3 Probably NOT want
- 4 Definitely NOT want

Would you personally want a computer chip implant in the brain, allowing you to far more quickly and accurately process information, if you had the opportunity?

- ☐ Definitely want
- ☐ Probably want
- ☐ Probably NOT want
- ☐ Definitely NOT want

Previous

Next

**ASK FORM 2 ONLY [XFORM=2]:**

BCHIP4

If the use of computer chip implants in the brain becomes widespread, allowing people to far more quickly and accurately process information, do you think each of the following would happen? **[RANDOMIZE ITEMS]**

- a. People who have these computer chip implants in the brain would be more productive at their jobs
- b. These computer chip implants in the brain would be used before we fully understand how they affect people's health
- c. The use of these computer chip implants in the brain would lead to new innovation and problem solving in society
- d. These techniques would go too far eliminating natural differences between people in society

**RESPONSE OPTIONS:**

- 1 Definitely would happen
- 2 Probably would happen
- 3 Probably would NOT happen
- 4 Definitely would NOT happen

If the use of computer chip implants in the brain becomes widespread, allowing people to far more quickly and accurately process information, do you think each of the following would happen?

These techniques would go too far eliminating natural differences between people in society

- ☐ Definitely would happen
- ☐ Probably would happen
- ☐ Probably would NOT happen
- ☐ Definitely would NOT happen

The use of these computer chip implants in the brain would lead to new innovation and problem solving in society

- ☐ Definitely would happen
- ☐ Probably would happen
- ☐ Probably would NOT happen
- ☐ Definitely would NOT happen

These computer chip implants in the brain would be used before we fully understand how they affect people's health

- ☐ Definitely would happen
- ☐ Probably would happen
- ☐ Probably would NOT happen
- ☐ Definitely would NOT happen

People who have these computer chip implants in the brain would be more productive at their jobs

- ☐ Definitely would happen
- ☐ Probably would happen
- ☐ Probably would NOT happen
- ☐ Definitely would NOT happen

Previous

Next

### ASK FORM 2 ONLY [XFORM=2]:

BCHIP5

If the use of computer chip implants in the brain becomes widespread, allowing people to far more quickly and accurately process information, which statement better describes how you would feel about this development? **[RANDOMIZE RESPONSE OPTIONS]**

- 1 As humans, we are always trying to better ourselves and this idea is no different
- 2 This idea is meddling with nature and crosses a line we should not cross

If the use of computer chip implants in the brain becomes widespread, allowing people to far more quickly and accurately process information, which statement better describes how you would feel about this development?

- ☐ This idea is meddling with nature and crosses a line we should not cross
- ☐ As humans, we are always trying to better ourselves and this idea is no different

Previous

Next

### ASK FORM 2 ONLY [XFORM=2]:

BCHIP6

If the use of computer chip implants in the brain becomes widespread, allowing people to far more quickly and accurately process information, do you think most people would...

- 1 Feel pressure to get this
- 2 Not feel pressure to get this

If the use of computer chip implants in the brain becomes widespread, allowing people to far more quickly and accurately process information, do you think most people would...

- ☐ Feel pressure to get this
- ☐ Not feel pressure to get this

Previous

Next

**[RANDOMIZE ORDER OF BCHIP7 AND BCHIP8]****ASK FORM 2 ONLY [XFORM=2]:**

BCHIP7 If the use of computer chip implants in the brain becomes widespread, allowing people to far more quickly and accurately process information, do you think people's judgments and decision-making would be... **[RANDOMIZE RESPONSE OPTIONS 1 AND 2, WITH OPTION 3 ALWAYS LAST]**

- 1 Better than now
- 2 Worse than now
- 3 About the same as now **[ANCHOR]**

If the use of computer chip implants in the brain becomes widespread, allowing people to far more quickly and accurately process information, do you think people's judgments and decision-making would be...

- ☐ Better than now
- ☐ Worse than now
- ☐ About the same as now

Previous

Next

**[RANDOMIZE ORDER OF BCHIP7 AND BCHIP8]****ASK FORM 2 ONLY [XFORM=2]:**

BCHIP8 If the use of computer chip implants in the brain becomes widespread, allowing people to far more quickly and accurately process information, do you think it would... **[RANDOMIZE RESPONSE OPTIONS 1 AND 2, WITH OPTION 3 ALWAYS LAST]**

- 1 Increase the gap between higher and lower-income Americans
- 2 Decrease the gap between higher and lower-income Americans
- 3 Not make much difference **[ANCHOR]**

If the use of computer chip implants in the brain becomes widespread, allowing people to far more quickly and accurately process information, do you think it would...

- ☐ Decrease the gap between higher and lower-income Americans
- ☐ Increase the gap between higher and lower-income Americans
- ☐ Not make much difference

Previous

Next

**ASK FORM 2 ONLY [XFORM=2]:**

BCHIP9 If the use of computer chip implants in the brain becomes widespread, allowing people to far more quickly and accurately process information, how often do you think each of these potential problems would happen? **[RANDOMIZE ITEMS]**

- a. The computer chip implant would malfunction
- b. Hackers would gain access to people's computer chip information without consent
- c. The computer chip implant would cause unwanted changes to the way the brain functions

**RESPONSE OPTIONS:**

- 1 A lot of the time
- 2 Some of the time
- 3 Rarely or never

If the use of computer chip implants in the brain becomes widespread, allowing people to far more quickly and accurately process information, how often do you think each of these potential problems would happen?

The computer chip implant would malfunction

- ☐ A lot of the time
- ☐ Some of the time
- ☐ Rarely or never

The computer chip implant would cause unwanted changes to the way the brain functions

- ☐ A lot of the time
- ☐ Some of the time
- ☐ Rarely or never

Hackers would gain access to people's computer chip information without consent

- ☐ A lot of the time
- ☐ Some of the time
- ☐ Rarely or never

Previous

Next

**ASK FORM 2 ONLY [XFORM=2]:**

BCHIP10 How much of a role do you think each of the following groups should have in setting standards for how computer chip implants in the brain are used? **[RANDOMIZE ITEMS]**

- a. Federal government agencies
- b. The companies that develop these computer chip implants
- c. The people getting these computer chip implants
- d. The medical doctors who implant the computer chips in the brain

**RESPONSE OPTIONS:**

- 1 A major role
- 2 A minor role
- 3 No role at all

How much of a role do you think each of the following groups should have in setting standards for how computer chip implants in the brain are used?

The medical doctors who implant the computer chips in the brain

- ☐ A major role
- ☐ A minor role
- ☐ No role at all

Federal government agencies

- ☐ A major role
- ☐ A minor role
- ☐ No role at all

The people getting these computer chip implants

- ☐ A major role
- ☐ A minor role
- ☐ No role at all

The companies that develop these computer chip implants

- ☐ A major role
- ☐ A minor role
- ☐ No role at all

Previous

Next

**ASK FORM 2 ONLY [XFORM=2]:**

BCHIP11

If the use of computer chip implants in the brain becomes widespread, allowing people to far more quickly and accurately process information, which is your greater concern?

**[RANDOMIZE RESPONSE OPTIONS]**

- 1 Government will go too far regulating their use
- 2 Government will not go far enough regulating their use

If the use of computer chip implants in the brain becomes widespread, allowing people to far more quickly and accurately process information, which is your greater concern?

- ☐ Government will not go far enough regulating their use
- ☐ Government will go too far regulating their use

Previous

Next

**ASK FORM 2 ONLY [XFORM=2]:**

BCHIP12 Which statement comes closer to your view when it comes to ensuring the safety and effectiveness of computer chip implants in the brain?

Implanted computer chips in the brain should be tested using... **[RANDOMIZE RESPONSE OPTIONS]**

- 1 Existing standards used for medical devices
- 2 A higher standard than used for medical devices

Which statement comes closer to your view when it comes to ensuring the safety and effectiveness of computer chip implants in the brain?

Implanted computer chips in the brain should be tested using...

☐ A higher standard than used for medical devices

☐ Existing standards used for medical devices

Previous Next

**ASK FORM 2 ONLY [XFORM=2]:**

BCHIP13 Would the use of computer chip implants in the brain be more acceptable, less acceptable or would it make no difference in each of the following circumstances? **[RANDOMIZE ITEMS]**

- a. If people could turn on and off the effects
- b. If it could be put in place without surgery

**RESPONSE OPTIONS:**

- 1 More acceptable
- 2 Less acceptable
- 3 No difference

Would the use of computer chip implants in the brain be more acceptable, less acceptable or would it make no difference in each of the following circumstances?

If it could be put in place without surgery

☐ More acceptable

☐ Less acceptable

☐ No difference

If people could turn on and off the effects

☐ More acceptable

☐ Less acceptable

☐ No difference

Previous Next

**ASK FORM 2 ONLY [XFORM=2]:**

BCHIP14

Computer chip implants in the brain could be used for a number of purposes. Would you favor or oppose the use of computer chips implants in the brain for each of the following purposes? **[RANDOMIZE ITEMS]**

- a. To treat age-related decline in mental abilities
- b. To allow increased movement for people who are paralyzed
- c. To make it possible for thoughts in the brain to search content on the internet without typing
- d. To translate thoughts in the brain, without speaking, into text on a screen

**RESPONSE OPTIONS:**

- 1 Favor
- 2 Oppose

**[SPACE]**

- 3 Not sure

Computer chip implants in the brain could be used for a number of purposes. Would you favor or oppose the use of computer chips implants in the brain for each of the following purposes?

To allow increased movement for people who are paralyzed

- ☐ Favor
- ☐ Oppose
- ☐ Not sure

To translate thoughts in the brain, without speaking, into text on a screen

- ☐ Favor
- ☐ Oppose
- ☐ Not sure

To treat age-related decline in mental abilities

- ☐ Favor
- ☐ Oppose
- ☐ Not sure

To make it possible for thoughts in the brain to search content on the internet without typing

- ☐ Favor
- ☐ Oppose
- ☐ Not sure

Previous

Next



**[PROGRAMMING NOTE: ASK BLOCKS 4-6 IF FORM 2; RANDOMIZE ORDER OF BLOCKS]****BLOCK 5****ASK FORM 2 ONLY [XFORM=2]:**

GENEVIG New ways to modify a person's genes are being developed that could make it possible to change the DNA of embryos before a baby is born in order to greatly reduce a baby's risk of developing serious diseases or health conditions over their lifetime.

GENEV1 How much have you heard or read about using gene editing to greatly reduce a baby's risk of developing serious diseases or health conditions over their lifetime?

- 1 A lot
- 2 A little
- 3 Nothing at all

New ways to modify a person's genes are being developed that could make it possible to change the DNA of embryos before a baby is born in order to greatly reduce a baby's risk of developing serious diseases or health conditions over their lifetime.

How much have you heard or read about using gene editing to greatly reduce a baby's risk of developing serious diseases or health conditions over their lifetime?

☐ A lot  
☐ A little  
☐ Nothing at all

Previous
Next

**ASK FORM 2 ONLY [XFORM=2]:**

GENEV2 Do you think the widespread use of gene editing to greatly reduce a baby's risk of developing serious diseases or health conditions over their lifetime would be a...

- 1 Good idea for society
- 2 Bad idea for society
- [SPACE]**
- 3 Not sure

Do you think the widespread use of gene editing to greatly reduce a baby's risk of developing serious diseases or health conditions over their lifetime would be a...

☐ Good idea for society  
☐ Bad idea for society  
☐ Not sure

Previous
Next

**ASK FORM 2 ONLY [XFORM=2]:**

GENEV3 If gene editing to greatly reduce a baby's risk of developing serious diseases or health conditions over their lifetime were available, is this something you would want?

- 1 Yes, I would definitely want this for my baby
- 2 Yes, I would probably want this for my baby
- 3 No, I would probably NOT want this for my baby
- 4 No, I would definitely NOT want this for my baby

If gene editing to greatly reduce a baby's risk of developing serious diseases or health conditions over their lifetime were available, is this something you would want?

- ☐ Yes, I would definitely want this for my baby
- ☐ Yes, I would probably want this for my baby
- ☐ No, I would probably NOT want this for my baby
- ☐ No, I would definitely NOT want this for my baby

Previous

Next

**ASK FORM 2 ONLY [XFORM=2]:**

GENEV4 If the use of gene editing to greatly reduce a baby's risk of developing serious diseases or health conditions over their lifetime becomes widespread, do you think each of the following would happen? **[RANDOMIZE ITEMS]**

- a. Even if gene editing is used appropriately in some cases, others would use these techniques in ways that are morally unacceptable
- b. These gene editing techniques would help people live longer and better quality lives
- c. Development of these gene editing techniques would pave the way for new medical advances that benefit society as a whole
- d. These gene editing techniques would go too far eliminating natural differences between people in society

**RESPONSE OPTIONS:**

- 1 Definitely would happen
- 2 Probably would happen
- 3 Probably would NOT happen
- 4 Definitely would NOT happen

If the use of gene editing to greatly reduce a baby's risk of developing serious diseases or health conditions over their lifetime becomes widespread, do you think each of the following would happen?

Development of these gene editing techniques would pave the way for new medical advances that benefit society as a whole

- ☐ Definitely would happen
- ☐ Probably would happen
- ☐ Probably would NOT happen
- ☐ Definitely would NOT happen

These gene editing techniques would help people live longer and better quality lives

- ☐ Definitely would happen
- ☐ Probably would happen
- ☐ Probably would NOT happen
- ☐ Definitely would NOT happen

Even if gene editing is used appropriately in some cases, others would use these techniques in ways that are morally unacceptable

- ☐ Definitely would happen
- ☐ Probably would happen
- ☐ Probably would NOT happen
- ☐ Definitely would NOT happen

These gene editing techniques would go too far eliminating natural differences between people in society

- ☐ Definitely would happen
- ☐ Probably would happen
- ☐ Probably would NOT happen
- ☐ Definitely would NOT happen

Previous

Next

## ASK FORM 2 ONLY [XFORM=2]:

GENEV5

If the use of gene editing to greatly reduce a baby's risk of developing serious diseases or health conditions over their lifetime becomes widespread, which statement better describes how you would feel about this development? **[RANDOMIZE RESPONSE OPTIONS]**

- 1 As humans, we are always trying to better ourselves and this idea is no different
- 2 This idea is meddling with nature and crosses a line we should not cross

If the use of gene editing to greatly reduce a baby's risk of developing serious diseases or health conditions over their lifetime becomes widespread, which statement better describes how you would feel about this development?

- ☐ This idea is meddling with nature and crosses a line we should not cross
- ☐ As humans, we are always trying to better ourselves and this idea is no different

Previous

Next

**ASK FORM 2 ONLY [XFORM=2]:**

GENEV6 If the use of gene editing to greatly reduce a baby's risk of developing serious diseases or health conditions over their lifetime becomes widespread, do you think most parents would...

- 1 Feel pressure to get this for their baby
- 2 Not feel pressure to get this for their baby

If the use of gene editing to greatly reduce a baby's risk of developing serious diseases or health conditions over their lifetime becomes widespread, do you think most parents would...

- ☐ Feel pressure to get this for their baby
- ☐ Not feel pressure to get this for their baby

Previous

Next

**RANDOMIZE ORDER OF GENEV7 AND GENEV8****ASK FORM 2 ONLY [XFORM=2]:**

GENEV7 If the use of gene editing to greatly reduce a baby's risk of developing serious diseases or health conditions over their lifetime becomes widespread, do you think people's quality of life would be... **[RANDOMIZE RESPONSE OPTIONS 1 AND 2, WITH OPTION 3 ALWAYS LAST]**

- 1 Better than now
- 2 Worse than now
- 3 About the same as now **[ANCHOR]**

If the use of gene editing to greatly reduce a baby's risk of developing serious diseases or health conditions over their lifetime becomes widespread, do you think people's quality of life would be...

- ☐ Better than now
- ☐ Worse than now
- ☐ About the same as now

Previous

Next

**RANDOMIZE ORDER OF GENEV7 AND GENEV8****ASK FORM 2 ONLY [XFORM=2]:**

GENEV8 If the use of gene editing to greatly reduce a baby's risk of developing serious diseases or health conditions over their lifetime becomes widespread, do you think it would... **[RANDOMIZE RESPONSE OPTIONS 1 AND 2, WITH OPTION 3 ALWAYS LAST]**

- 1 Increase the gap between higher and lower-income Americans
- 2 Decrease the gap between higher and lower-income Americans
- 3 Not make much difference **[ANCHOR]**

If the use of gene editing to greatly reduce a baby's risk of developing serious diseases or health conditions over their lifetime becomes widespread, do you think it would...

- ☐ Decrease the gap between higher and lower-income Americans
- ☐ Increase the gap between higher and lower-income Americans
- ☐ Not make much difference

Previous

Next

**ASK FORM 2 ONLY [XFORM=2]:**

GENEV9 How much of a role do you think each of the following groups should have in setting standards for how gene editing techniques are used? **[RANDOMIZE ITEMS]**

- a. Federal government agencies
- b. The companies that develop these gene editing techniques
- c. People who get these gene editing techniques
- d. The medical scientists who provide these gene editing techniques

**RESPONSE OPTIONS:**

- 1 A major role
- 2 A minor role
- 3 No role at all

How much of a role do you think each of the following groups should have in setting standards for how gene editing techniques are used?

People who get these gene editing techniques

- ☐ A major role
- ☐ A minor role
- ☐ No role at all

The medical scientists who provide these gene editing techniques

- ☐ A major role
- ☐ A minor role
- ☐ No role at all

The companies that develop these gene editing techniques

- ☐ A major role
- ☐ A minor role
- ☐ No role at all

Federal government agencies

- ☐ A major role
- ☐ A minor role
- ☐ No role at all

Previous

Next

**ASK FORM 2 ONLY [XFORM=2]:**

GENEV10 If the use of gene editing to greatly reduce a baby's risk of serious diseases or health conditions over their lifetime becomes widespread, which is your greater concern?  
**[RANDOMIZE RESPONSE OPTIONS]**

- 1 Government will go too far regulating their use
- 2 Government will not go far enough regulating their use

If the use of gene editing to greatly reduce a baby's risk of serious diseases or health conditions over their lifetime becomes widespread, which is your greater concern?

- ☐ Government will go too far regulating their use
- ☐ Government will not go far enough regulating their use

Previous

Next

**ASK FORM 2 ONLY [XFORM=2]:**

GENEV11 Which statement comes closer to your views when it comes to ensuring the safety and effectiveness of these gene editing techniques?

Gene editing to greatly reduce a baby's risk of serious diseases or health conditions over their lifetime should be tested using... **[RANDOMIZE RESPONSE OPTIONS]**

- 1 Existing standards used for medical treatments
- 2 A higher standard than used for medical treatments

Which statement comes closer to your views when it comes to ensuring the safety and effectiveness of these gene editing techniques?

Gene editing to greatly reduce a baby's risk of serious diseases or health conditions over their lifetime should be tested using...

- ☐ A higher standard than used for medical treatments
- ☐ Existing standards used for medical treatments

Previous

Next

**ASK FORM 2 ONLY [XFORM=2]:**

GENEV12 Would the use of gene editing to greatly reduce a baby's risk of serious diseases or health conditions over their lifetime be more acceptable, less acceptable or would it make no difference in each of the following circumstances? **[RANDOMIZE ITEMS]**

- a. If people could choose which diseases and conditions are affected
- b. If the effects were limited to that person and NOT passed on to future generations
- c. If gene editing were only used in adults who could consent to the procedure, rather than for babies

**RESPONSE OPTIONS:**

- 1 More acceptable
- 2 Less acceptable
- 3 No difference

Would the use of gene editing to greatly reduce a baby's risk of serious diseases or health conditions over their lifetime be more acceptable, less acceptable or would it make no difference in each of the following circumstances?

If gene editing were only used in adults who could consent to the procedure, rather than for babies

- ☐ More acceptable
- ☐ Less acceptable
- ☐ No difference

If people could choose which diseases and conditions are affected

- ☐ More acceptable
- ☐ Less acceptable
- ☐ No difference

If the effects were limited to that person and NOT passed on to future generations

- ☐ More acceptable
- ☐ Less acceptable
- ☐ No difference

Previous

Next

**ASK FORM 2 ONLY [XFORM=2]:**

GENEV13 Gene editing could be used for a number of purposes. Would you favor or oppose the use of gene editing for each of the following purposes? **[RANDOMIZE ITEMS]**

- a. To change a baby's physical characteristics to make them more attractive
- b. To treat serious diseases or health conditions that a person currently has

**RESPONSE OPTIONS:**

- 1 Favor
- 2 Oppose
- [SPACE]**
- 3 Not sure

Gene editing could be used for a number of purposes. Would you favor or oppose the use of gene editing for each of the following purposes?

To change a baby's physical characteristics to make them more attractive

☐ Favor

☐ Oppose

☐ Not sure

To treat serious diseases or health conditions that a person currently has

☐ Favor

☐ Oppose

☐ Not sure

Previous Next

**[PROGRAMMING NOTE: ASK BLOCKS 4-6 IF FORM 2; RANDOMIZE ORDER OF BLOCKS]**

**BLOCK 6**

**ASK FORM 2 ONLY [XFORM=2]:**

EXOVIQ Robotic exoskeletons are being developed that could make it possible to greatly increase a person's strength and allow them to lift heavy objects when wearing the device. These devices could include an artificial intelligence computer system to help guide the device. They are expected to be used by workers doing manual labor jobs, such as manufacturing or construction.

EXOV1 How much have you heard or read about robotic exoskeletons with built-in artificial intelligence computer systems for manual labor?

- 1 A lot
- 2 A little
- 3 Nothing at all

Robotic exoskeletons are being developed that could make it possible to greatly increase a person's strength and allow them to lift heavy objects when wearing the device. These devices could include an artificial intelligence computer system to help guide the device. They are expected to be used by workers doing manual labor jobs, such as manufacturing or construction.

How much have you heard or read about robotic exoskeletons with built-in artificial intelligence computer systems for manual labor?

☐ A lot

☐ A little

☐ Nothing at all

Previous Next

**ASK FORM 2 ONLY [XFORM=2]:**



EXOV2 Do you think widespread use of robotic exoskeletons would be a...

**RESPONSE OPTIONS:**

- 1 Good idea for society
- 2 Bad idea for society
- [SPACE]**
- 3 Not sure

Do you think widespread use of robotic exoskeletons would be a...

☐ Good idea for society

☐ Bad idea for society

☐ Not sure

Previous

Next

**ASK FORM 2 ONLY [XFORM=2]:**

EXOV3 Would you personally want to use a robotic exoskeleton with a built-in artificial intelligence computer system for manual labor, if you had the opportunity?

- 1 Definitely want
- 2 Probably want
- 3 Probably NOT want
- 4 Definitely NOT want

Would you personally want to use a robotic exoskeleton with a built-in artificial intelligence computer system for manual labor, if you had the opportunity?

☐ Definitely want

☐ Probably want

☐ Probably NOT want

☐ Definitely NOT want

Previous

Next

**ASK FORM 2 ONLY [XFORM=2]:**

EXOV4 If the use of robotic exoskeletons for manual labor becomes widespread, do you think each of the following would happen? **[RANDOMIZE ITEMS]**

- a. Employers would need fewer workers and lay off part of their work force
- b. Workers would experience fewer workplace injuries
- c. Workers would lose strength by relying too much on exoskeletons
- d. More people would be able to do manual labor jobs

**RESPONSE OPTIONS:**

- 1 Definitely would happen
- 2 Probably would happen
- 3 Probably would NOT happen
- 4 Definitely would NOT happen

If the use of robotic exoskeletons for manual labor becomes widespread, do you think each of the following would happen?

Employers would need fewer workers and lay off part of their work force

- ☐ Definitely would happen
- ☐ Probably would happen
- ☐ Probably would NOT happen
- ☐ Definitely would NOT happen

Workers would lose strength by relying too much on exoskeletons

- ☐ Definitely would happen
- ☐ Probably would happen
- ☐ Probably would NOT happen
- ☐ Definitely would NOT happen

More people would be able to do manual labor jobs

- ☐ Definitely would happen
- ☐ Probably would happen
- ☐ Probably would NOT happen
- ☐ Definitely would NOT happen

Workers would experience fewer workplace injuries

- ☐ Definitely would happen
- ☐ Probably would happen
- ☐ Probably would NOT happen
- ☐ Definitely would NOT happen

Previous

Next

**ASK FORM 2 ONLY [XFORM=2]:**

EXOV5

If the use of robotic exoskeletons for manual labor becomes widespread, which statement better describes how you would feel about this development? **[RANDOMIZE RESPONSE OPTIONS]**

- 1 As humans, we are always trying to better ourselves and this idea is no different
- 2 This idea is meddling with nature and crosses a line we should not cross

If the use of robotic exoskeletons for manual labor becomes widespread, which statement better describes how you would feel about this development?

- ☐ This idea is meddling with nature and crosses a line we should not cross
- ☐ As humans, we are always trying to better ourselves and this idea is no different

Previous

Next

**ASK FORM 2 ONLY [XFORM=2]:**

EXOV6

If the use of robotic exoskeletons for manual labor becomes widespread, do you think conditions for workers would be... **[RANDOMIZE RESPONSE OPTIONS 1 AND 2, WITH OPTION 3 ALWAYS LAST]**

- 1 Better than now
- 2 Worse than now
- 3 About the same as now **[ANCHOR]**

If the use of robotic exoskeletons for manual labor becomes widespread, do you think conditions for workers would be...

- ☐ Better than now
- ☐ Worse than now
- ☐ About the same as now

Previous

Next

**ASK FORM 2 ONLY [XFORM=2]:**

EXOV7

Thinking about the manufacturing of robotic exoskeletons, which of the following statements comes closest to your view, even if neither is exactly right? **[RANDOMIZE RESPONSE OPTIONS 1 AND 2, WITH OPTION 3 ALWAYS LAST]**

- 1 Robotic exoskeletons should only be made if they fit a wide range of worker body types, even if that increases their cost
- 2 It's okay to make robotic exoskeletons that just fit the typical body types of manual labor workers in order to lower their cost, even if they won't work for many other people

**[SPACE]**

- 3 Not sure **[ANCHOR]**

Thinking about the manufacturing of robotic exoskeletons, which of the following statements comes closest to your view, even if neither is exactly right?

- ☐ It's okay to make robotic exoskeletons that just fit the typical body types of manual labor workers in order to lower their cost, even if they won't work for many other people
- ☐ Robotic exoskeletons should only be made if they fit a wide range of worker body types, even if that increases their cost
- ☐ Not sure

Previous

Next

**ASK FORM 2 ONLY [XFORM=2]:**

EXOV8 How much of a role do you think each of the following groups should have in setting standards for how robotic exoskeletons for manual labor are used? **[RANDOMIZE ITEMS]**

- a. Federal government agencies
- b. The companies that develop robotic exoskeletons
- c. The workers themselves
- d. Employers

**RESPONSE OPTIONS:**

- 1 A major role
- 2 A minor role
- 3 No role at all

How much of a role do you think each of the following groups should have in setting standards for how robotic exoskeletons for manual labor are used?

The workers themselves

- ☐ A major role
- ☐ A minor role
- ☐ No role at all

Employers

- ☐ A major role
- ☐ A minor role
- ☐ No role at all

The companies that develop robotic exoskeletons

- ☐ A major role
- ☐ A minor role
- ☐ No role at all

Federal government agencies

- ☐ A major role
- ☐ A minor role
- ☐ No role at all

Previous

Next

**ASK FORM 2 ONLY [XFORM=2]:**

EXOV9 If the use of robotic exoskeletons for manual labor becomes widespread, which is your greater concern? **[RANDOMIZE RESPONSE OPTIONS]**

- 1 Government will go too far regulating their use
- 2 Government will not go far enough regulating their use

If the use of robotic exoskeletons for manual labor becomes widespread, which is your greater concern?

☐ Government will not go far enough regulating their use

☐ Government will go too far regulating their use

Previous

Next

**ASK FORM 2 ONLY [XFORM=2]:**

EXOV10 Which statement comes closer to your view when it comes to ensuring the safety and effectiveness of robotic exoskeletons for manual labor?

Robotic exoskeletons should be tested using... **[RANDOMIZE RESPONSE OPTIONS]**

- 1 Existing standards used for workplace equipment
- 2 A higher standard than used for workplace equipment

Which statement comes closer to your view when it comes to ensuring the safety and effectiveness of robotic exoskeletons for manual labor?

Robotic exoskeletons should be tested using...

☐ Existing standards used for workplace equipment

☐ A higher standard than used for workplace equipment

Previous

Next

**ASK FORM 2 ONLY [XFORM=2]:**

EXOV11 Would the use of a robotic exoskeleton with a built-in artificial computer system for manual labor be more acceptable, less acceptable or would it make no difference in each of the following circumstances? **[RANDOMIZE ITEMS]**

- a. If employers could only use robotic exoskeletons to improve worker safety, rather than to increase their productivity
- b. If people were required to be licensed to operate robotic exoskeletons

**RESPONSE OPTIONS:**

- 1 More acceptable
- 2 Less acceptable
- 3 No difference

Would the use of a robotic exoskeleton with a built-in artificial computer system for manual labor be more acceptable, less acceptable or would it make no difference in each of the following circumstances?

If people were required to be licensed to operate robotic exoskeletons

- ☐ More acceptable
- ☐ Less acceptable
- ☐ No difference

If employers could only use robotic exoskeletons to improve worker safety, rather than to increase their productivity

- ☐ More acceptable
- ☐ Less acceptable
- ☐ No difference

Previous

Next

### ASK FORM 2 ONLY [XFORM=2]:

EXOV12

Robotic exoskeletons with built-in artificial intelligence computer systems could be used for a number of purposes. Would you favor or oppose the use of robotic exoskeletons for each of the following purposes? **[RANDOMIZE ITEMS]**

- a. To improve the quality of life for people with physical limitations
- b. To give people greater strength for recreational activities
- c. To increase the ability of firefighters to lift in emergency situations

#### RESPONSE OPTIONS:

- 1 Favor
- 2 Oppose

**[SPACE]**

- 3 Not sure

Robotic exoskeletons with built-in artificial intelligence computer systems could be used for a number of purposes. Would you favor or oppose the use of robotic exoskeletons for each of the following purposes?

To give people greater strength for recreational activities

- ☐ Favor
- ☐ Oppose
- ☐ Not sure

To increase the ability of firefighters to lift in emergency situations

- ☐ Favor
- ☐ Oppose
- ☐ Not sure

To improve the quality of life for people with physical limitations

- ☐ Favor
- ☐ Oppose
- ☐ Not sure

Previous

Next

---

**\*CODEBOOK FOR ATP SAMPLE VARIABLES TO BE USED IN SURVEY PROGRAMMING LOGIC\***

**XTABLET**

- 1 Tablet HH
- 2 Non-tablet HH