

**2021 PEW RESEARCH CENTER'S AMERICAN TRENDS PANEL
WAVE 99 NOVEMBER 2021
TOPLINE
NOVEMBER 1-7, 2021
N=10,260**

NOTE: ALL NUMBERS ARE PERCENTAGES UNLESS OTHERWISE NOTED. THE PERCENTAGES LESS THAN 0.5% ARE REPLACED BY AN ASTERISK (*). ROWS/COLUMNS MAY NOT TOTAL 100% DUE TO ROUNDING.

	Sample size	Margin of error at 95% confidence level
U.S. adults	10,260	+/- 1.6 percentage points

ASK FORM 1 ONLY [XFORM=1] [N=5,153]:

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

<u>Nov 1-7, 2021</u>		<u>Mar 2-28, 2016</u>
48	Mostly positive	52
11	Mostly negative	8
41	Equal positive and negative effects	38
*	No answer	2

ASK FORM 2 ONLY [XFORM=2] [N=5,107]:

SCI1 Overall, would you say science has had a mostly positive effect on our society or a mostly negative effect on our society?

<u>Nov 1-7, 2021</u>		<u>Feb 16-21, 2021</u>	<u>Jan 7-21, 2019</u>	<u>Mar 2-28, 2016</u>
65	Mostly positive	67	73	67
7	Mostly negative	6	3	4
28	Equal positive and negative effects	27	23	27
*	No answer	1	*	2

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]

<u>Nov 1-7, 2021</u>	
18	More excited than concerned
37	More concerned than excited
45	Equally concerned and excited
*	No answer

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

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 RESPONSE, CODED ANSWERS SHOWN BELOW]

Nov 1-7, 2021

31	Makes life, society better
13	Saves time, more efficient
10	Inevitable progress, is the future
7	Handles mundane, tedious tasks
6	Helps with work/labor
6	AI is interesting, exciting
6	Helps humans with difficult/dangerous tasks
4	More accurate than humans
4	Helps those who are elderly/have a disability
2	Personal anecdotes
2	Other people's fears are based on sci-fi, not reality
7	Other
22	No answer

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

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 RESPONSE, CODED ANSWERS SHOWN BELOW]

Nov 1-7, 2021

19	Loss of human jobs
16	Surveillance, hacking, digital privacy
12	Lack of human connection, qualities
8	AI will get too powerful, outsmarting people
8	People misusing AI
7	People becoming too reliant on AI/tech
6	AI fails, makes mistakes
3	Concerns about govt./tech companies using AI
3	Don't trust AI or people wielding it
2	Unforeseen consequences/effects
2	Loss of freedom
2	Human bias coded into AI
2	Lack of oversight and regulation
7	Other
20	No answer

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?

Nov 1-7, 2021

30	Possible
28	Not possible
41	Not sure
1	No answer

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]

		<u>Very well</u>	<u>Somewhat well</u>	<u>Not too well</u>	<u>Not at all well</u>	<u>Not sure</u>	<u>No answer</u>
a.	White adults						
	Nov 1-7, 2021	23	25	8	5	39	1
b.	Black adults						
	Nov 1-7, 2021	7	18	20	12	42	1
c.	Hispanic adults						
	Nov 1-7, 2021	6	17	23	10	43	1
d.	Asian adults						
	Nov 1-7, 2021	10	23	15	8	43	1
e.	Men						
	Nov 1-7, 2021	23	28	7	4	37	1
f.	Women						
	Nov 1-7, 2021	9	27	18	7	38	1

ASK ALL:

POSNEGAI

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

		<u>Very excited</u>	<u>Somewhat excited</u>	<u>Equal excitement and concern</u>	<u>Somewhat concerned</u>	<u>Very concerned</u>	<u>No answer</u>
a.	Know people's thoughts and behaviors						
	Nov 1-7, 2021	3	6	16	23	52	*
b.	Perform household chores						
	Nov 1-7, 2021	26	31	24	12	7	1
c.	Make important life decisions for people						
	Nov 1-7, 2021	4	6	16	23	52	*
d.	Diagnose medical problems						
	Nov 1-7, 2021	20	20	24	16	19	*
e.	Perform repetitive workplace tasks						
	Nov 1-7, 2021	20	27	27	16	10	1
f.	Handle customer service calls						
	Nov 1-7, 2021	9	18	26	28	19	1

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]**

		<u>Very excited</u>	<u>Somewhat excited</u>	<u>Equal excitement and concern</u>	<u>Somewhat concerned</u>	<u>Very concerned</u>	<u>No answer</u>
a.	Slow the aging process to allow the average person to live decades longer Nov 1-7, 2021	22	19	30	16	13	1
b.	Allow some people to far more quickly and accurately process information Nov 1-7, 2021	21	26	30	13	10	1
c.	Prevent some people from getting serious diseases or health conditions Nov 1-7, 2021	41	26	22	6	5	1
d.	Allow some people greatly increased strength for lifting heavy objects Nov 1-7, 2021	19	25	28	16	11	1
e.	Allow some people to see shapes and patterns in crowded spaces far beyond what the typical person can see today Nov 1-7, 2021	16	25	31	16	11	1
f.	Allow some people to hear sounds far beyond what the typical person can hear today Nov 1-7, 2021	20	27	29	14	10	*

[PROGRAMMING NOTE: ASK BLOCKS 1-3 IF FORM 1; RANDOMIZE ORDER OF BLOCKS]**BLOCK 1****ASK FORM 1 ONLY [XFORM=1] [N=5,153]:**

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] [N=5,153]:

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

Nov 1-7, 2021

24	A lot
51	A little
24	Nothing at all
*	No answer

ASK FORM 1 ONLY [XFORM=1] [N=5,153]:

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

Nov 1-7, 2021

38	Good idea for society
31	Bad idea for society
30	Not sure
*	No answer

ASK FORM 1 INTERNET USERS ONLY [XFORM=1 AND XTABLET=2] [N=5,057]:

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

Nov 1-7, 2021

63	Yes, I have
22	No, I have not
13	I don't use social media sites
1	No answer

ASK FORM 1 ONLY [XFORM=1] [N=5,153]:

SMALG3GP Have you ever seen information on social media sites that has been flagged or labeled as false?

Nov 1-7, 2021

61	Yes, I have
22	No, I have not
13	I don't use social media sites
1	No answer
4	Does not use internet

ASK FORM 1 ONLY [XFORM=1] [N=5,153]:

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]**

		<u>Definitely happening</u>	<u>Probably happening</u>	<u>Probably NOT happening</u>	<u>Definitely NOT happening</u>	<u>No answer</u>
a.	News and information are being wrongly removed					
	Nov 1-7, 2021	29	39	24	6	2
b.	Political viewpoints are being censored					
	Nov 1-7, 2021	36	34	21	8	1
c.	It is getting easier to find trustworthy information					
	Nov 1-7, 2021	10	30	36	23	2
d.	It is allowing people to have more meaningful conversations					
	Nov 1-7, 2021	7	28	40	23	2

ASK FORM 1 ONLY [XFORM=1] [N=5,153]:

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

Nov 1-7, 2021

10	A lot of control
48	A little control
33	No control
8	Not sure
*	No answer

ASK FORM 1 ONLY [XFORM=1] [N=5,153]:

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]**

Nov 1-7, 2021

28	Quick decisions, even if some accurate information gets mistakenly removed
69	Accurate decisions, even if some false information stays up on sites for a longer period of time
3	No answer

ASK FORM 1 ONLY [XFORM=1] [N=5,153]:

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?

Nov 1-7, 2021

3	A great deal of confidence
24	A fair amount of confidence
43	Not too much confidence
30	No confidence at all
1	No answer

ASK FORM 1 ONLY [XFORM=1] [N=5,153]:

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]**

Nov 1-7, 2021

44	Government will <u>go too far</u> regulating their use
53	Government will <u>not go far enough</u> regulating their use
3	No answer

ASK FORM 1 ONLY [XFORM=1] [N=5,153]:

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]**

		<u>A major role</u>	<u>A minor role</u>	<u>No role at all</u>	<u>No answer</u>
a.	Federal government agencies				
	Nov 1-7, 2021	40	39	19	1
b.	The social media companies that develop these computer programs				
	Nov 1-7, 2021	51	35	13	1
c.	Social media users				
	Nov 1-7, 2021	46	38	14	1

ASK FORM 1 ONLY [XFORM=1] [N=5,153]:

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]**

		<u>Extremely important</u>	<u>Very important</u>	<u>Somewhat important</u>	<u>A little important</u>	<u>Not at all important</u>	<u>No answer</u>
a.	Genders						
	Nov 1-7, 2021	39	24	18	5	13	2
b.	Racial and ethnic groups						
	Nov 1-7, 2021	42	25	17	3	11	1
c.	Political viewpoints						
	Nov 1-7, 2021	37	27	18	5	10	1

ASK FORM 1 ONLY [XFORM=1] [N=5,153]:

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]**

Nov 1-7, 2021

21	Mostly made by people
6	Mostly made by computer programs
57	A mix of both people and computer programs
14	Not sure
1	No answer

ASK FORM 1 ONLY [XFORM=1] [N=5,153]:

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]**

Nov 1-7, 2021

19	A better job than humans
22	A worse job than humans
25	About the same job as humans
32	Not sure
2	No answer

ASK FORM 1 ONLY [XFORM=1] [N=5,153]:

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]**

	<u>Favor</u>	<u>Oppose</u>	<u>Not sure</u>	<u>No answer</u>
a. Which people should be approved for mortgages Nov 1-7, 2021	21	56	22	1
b. Which patients should get a medical treatment Nov 1-7, 2021	12	70	17	*
c. Which job applicants should move on to a next round of interviews Nov 1-7, 2021	18	60	21	1
d. Which people should be good candidates for parole Nov 1-7, 2021	13	64	23	1

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

BLOCK 2

ASK FORM 1 ONLY [XFORM=1] [N=5,153]:

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] [N=5,153]:

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

Nov 1-7, 2021

21	A lot
58	A little
20	Nothing at all
*	No answer

ASK FORM 1 ONLY [XFORM=1] [N=5,153]:

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

Nov 1-7, 2021

46	Good idea for society
27	Bad idea for society
27	Not sure
*	No answer

ASK FORM 1 ONLY [XFORM=1] [N=5,153]:

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]**

		Definitely would <u>happen</u>	Probably would <u>happen</u>	Probably would NOT <u>happen</u>	Definitely would NOT <u>happen</u>	<u>No answer</u>
a.	Make more false arrests					
	Nov 1-7, 2021	16	38	40	5	2
b.	Solve crimes more quickly and efficiently					
	Nov 1-7, 2021	18	55	21	4	1
c.	Use the technology to monitor Black and Hispanic neighborhoods much more often than other neighborhoods					
	Nov 1-7, 2021	26	40	24	8	2
d.	Find more missing persons					
	Nov 1-7, 2021	21	57	18	2	1
e.	Be able to track everyone's location at all times					
	Nov 1-7, 2021	27	42	24	6	1
f.	Be better able to keep crowds under control					
	Nov 1-7, 2021	12	37	43	7	1

ASK FORM 1 ONLY [XFORM=1] [N=5,153]:

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]**

Nov 1-7, 2021

34	More fair
25	Less fair
40	Not make much difference
1	No answer

ASK FORM 1 ONLY [XFORM=1] [N=5,153]:

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]**

Nov 1-7, 2021

8	Increase in the U.S.
33	Decrease in the U.S.
57	Stay about the same
3	No answer

ASK FORM 1 ONLY [XFORM=1] [N=5,153]:

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]**

	<u>A major role</u>	<u>A minor role</u>	<u>No role at all</u>	<u>No answer</u>
a. Federal government agencies				
Nov 1-7, 2021	49	36	14	1
b. Companies that develop facial recognition technology				
Nov 1-7, 2021	41	38	20	1
c. Ordinary people				
Nov 1-7, 2021	40	38	21	1
d. Police departments that use facial recognition technology				
Nov 1-7, 2021	51	37	11	1

ASK FORM 1 ONLY [XFORM=1] [N=5,153]:

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

Nov 1-7, 2021

47	Government will <u>go too far</u> regulating its use
51	Government will <u>not go far enough</u> regulating its use
2	No answer

ASK FORM 1 ONLY [XFORM=1] [N=5,153]:

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

		<u>More acceptable</u>	<u>Less acceptable</u>	<u>No difference</u>	<u>No answer</u>
a.	People without criminal records could opt-out of facial recognition databases				
	Nov 1-7, 2021	45	26	28	2
b.	People were notified of the public events and public spaces that were scanned for facial images				
	Nov 1-7, 2021	53	18	28	2
c.	Police officers were trained in how facial recognition systems can make errors in identifying people before they use it				
	Nov 1-7, 2021	64	11	23	1

ASK FORM 1 ONLY [XFORM=1] [N=5,153]:

FACEREC9 Which of the following statements best describes your views, even if neither is exactly right? **[RANDOMIZE RESPONSE OPTIONS]**

Nov 1-7, 2021

60	People should assume they are being monitored when they are in public spaces
39	People should have a right to privacy when they are in public spaces
1	No answer

ASK FORM 1 ONLY [XFORM=1] [N=5,153]:

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?

Nov 1-7, 2021

27	Yes
70	No
2	No answer

ASK FORM 1 ONLY [XFORM=1] [N=5,153]:

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]**

	<u>Acceptable</u>	<u>Not acceptable</u>	<u>No answer</u>
a. At public protests Nov 1-7, 2021	61	38	1
b. As they enter large events like concerts to see who is in the crowd Nov 1-7, 2021	63	36	1
c. As they walk down the street Nov 1-7, 2021	31	68	1

ASK FORM 1 ONLY [XFORM=1] [N=5,153]:

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]**

	<u>Favor</u>	<u>Oppose</u>	<u>Not sure</u>	<u>No answer</u>
a. Companies automatically tracking the attendance of their employees Nov 1-7, 2021	30	48	22	1
b. Social media sites automatically identifying people in photos Nov 1-7, 2021	19	57	23	1
c. Retail stores enhancing credit card payment security by confirming account holders at checkout Nov 1-7, 2021	53	26	21	1
d. Apartment buildings tracking who enters or leaves their buildings Nov 1-7, 2021	51	30	18	1

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

BLOCK 3**ASK FORM 1 ONLY [XFORM=1] [N=5,153]:**

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] [N=5,153]:

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

Nov 1-7, 2021

26	A lot
62	A little
12	Nothing at all
*	No answer

ASK FORM 1 ONLY [XFORM=1] [N=5,153]:

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

Nov 1-7, 2021

26	Good idea for society
44	Bad idea for society
29	Not sure
*	No answer

ASK FORM 1 ONLY [XFORM=1] [N=5,153]:

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

Nov 1-7, 2021

14	Definitely want
23	Probably want
32	Probably NOT want
30	Definitely NOT want
1	No answer

ASK FORM 1 ONLY [XFORM=1] [N=5,153]:

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

		Definitely would <u>happen</u>	Probably would <u>happen</u>	Probably would NOT <u>happen</u>	Definitely would NOT <u>happen</u>	<u>No answer</u>
a.	Older adults and people with disabilities will be able to live more independently Nov 1-7, 2021	22	49	23	5	1
b.	Many people who make their living by driving others or delivering things with passenger vehicles would lose their jobs Nov 1-7, 2021	37	46	13	3	*
c.	Getting from place to place would be less stressful Nov 1-7, 2021	16	40	33	10	1
d.	The computer systems in driverless passenger vehicles would be easily hacked in ways that put safety at risk Nov 1-7, 2021	25	51	20	3	1

ASK FORM 1 ONLY [XFORM=1] [N=5,153]:

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]**

Nov 1-7, 2021

46	Increase the gap between higher and lower-income Americans
8	Decrease the gap between higher and lower-income Americans
46	Not make much difference
1	No answer

ASK FORM 1 ONLY [XFORM=1] [N=5,153]:

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]**

Nov 1-7, 2021

27	Increase the number of people killed or injured in traffic accidents
39	Decrease the number of people killed or injured in traffic accidents
31	Not make much difference
3	No answer

ASK FORM 1 ONLY [XFORM=1] [N=5,153]:

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]**

Nov 1-7, 2021

40	The vehicle's passengers
18	Those outside of the vehicle
41	Not sure
1	No answer

ASK FORM 1 ONLY [XFORM=1] [N=5,153]:

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]**

	<u>A major role</u>	<u>A minor role</u>	<u>No role at all</u>	<u>No answer</u>
a. Federal government agencies Nov 1-7, 2021	53	32	14	1
b. The companies that develop driverless passenger vehicles Nov 1-7, 2021	62	29	8	1
c. The people who use driverless passenger vehicles Nov 1-7, 2021	54	33	12	1
d. The dealerships that sell driverless passenger vehicles Nov 1-7, 2021	25	37	36	1

ASK FORM 1 ONLY [XFORM=1] [N=5,153]:

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

Nov 1-7, 2021

43	Government will <u>go too far</u> regulating their use
55	Government will <u>not go far enough</u> regulating their use
3	No answer

ASK FORM 1 ONLY [XFORM=1] [N=5,153]:

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

Driverless passenger vehicles should be tested using...

Nov 1-7, 2021

11	Existing standards used for regular passenger vehicles
87	A higher standard than used for regular passenger vehicle
1	No answer

ASK FORM 1 ONLY [XFORM=1] [N=5,153]:

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]**

	<u>More acceptable</u>	<u>Less acceptable</u>	<u>No difference</u>	<u>No answer</u>
a. They were required to travel in dedicated lanes Nov 1-7, 2021	67	10	22	1
b. They were required to be labeled as driverless in order to be easily identified Nov 1-7, 2021	70	7	22	1
c. If regular reports about the number of accidents caused by them were required Nov 1-7, 2021	71	10	18	1
d. If someone in the vehicle was required to have a driver's license Nov 1-7, 2021	57	9	33	1

ASK FORM 1 ONLY [XFORM=1] [N=5,153]:

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

Nov 1-7, 2021

7	Extremely comfortable
14	Very comfortable
34	Somewhat comfortable
27	Not too comfortable
18	Not comfortable at all
*	No answer

ASK FORM 1 ONLY [XFORM=1] [N=5,153]:

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]**

	<u>Favor</u>	<u>Oppose</u>	<u>Not sure</u>	<u>No answer</u>
a. Taxis and ride-sharing vehicles Nov 1-7, 2021	41	34	25	*
b. 18-wheeler trucks Nov 1-7, 2021	20	59	20	*
c. Buses for public transportation Nov 1-7, 2021	34	43	22	1
d. Delivery vehicles Nov 1-7, 2021	42	34	23	*

[PROGRAMMING NOTE: ASK BLOCKS 4-6 IF FORM 2; RANDOMIZE ORDER OF BLOCKS]**BLOCK 4****ASK FORM 2 ONLY [XFORM=2] [N=5,107]:**

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] [N=5,107]:

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?

Nov 1-7, 2021

5	A lot
32	A little
62	Nothing at all
*	No answer

TREND FOR COMPARISON

New developments in understanding the brain are creating the possibility that doctors will be able to surgically implant a small computer chip in the brain. Right now, these implanted devices are being developed for people with some kind of illness or disability. But in the future, these implanted devices could potentially be available for use by HEALTHY individuals, giving people a much improved ability to concentrate and process information in everyday life.

CHIP1 How much have you heard or read about this idea before today?

Mar 2-28, 2016

6	A lot
32	A little
61	Not at all
2	No answer

ASK FORM 2 ONLY [XFORM=2] [N=5,107]:

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...

Nov 1-7, 2021

13	Good idea for society
56	Bad idea for society
31	Not sure
1	No answer

ASK FORM 2 ONLY [XFORM=2] [N=5,107]:

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?

Nov 1-7, 2021

6	Definitely want
14	Probably want
28	Probably NOT want
50	Definitely NOT want
1	No answer

TREND FOR COMPARISON

CHIP2 In general, do you think an implanted device giving HEALTHY people a much improved ability to concentrate and process information is something that you, personally, would want or not something you would want?

Mar 2-28, 2016

10	Yes, I would definitely want this
23	Yes, I would probably want this
32	No, I would probably NOT want this
33	No, I would definitely NOT want this
2	No answer

ASK FORM 2 ONLY [XFORM=2] [N=5,107]:

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]**

	Definitely would <u>happen</u>	Probably would <u>happen</u>	Probably would NOT <u>happen</u>	Definitely would NOT <u>happen</u>	No <u>answer</u>
a. People who have these computer chip implants in the brain would be more productive at their jobs Nov 1-7, 2021	10	52	26	10	3
b. These computer chip implants in the brain would be used before we fully understand how they affect people's health Nov 1-7, 2021	36	42	13	7	2
c. The use of these computer chip implants in the brain would lead to new innovation and problem solving in society Nov 1-7, 2021	11	48	27	11	3
d. These techniques would go too far eliminating natural differences between people in society Nov 1-7, 2021	32	39	19	8	2

TREND FOR COMPARISON

CHIP6 If an implanted device becomes available, giving HEALTHY people a much improved ability to concentrate and process information, do you think the following are likely or not likely to happen as a result? **[RANDOMIZE ITEMS]**

	<u>Yes, likely</u>	<u>No, not likely</u>	<u>No answer</u>
a. People who have these implanted devices will be more productive at their jobs Mar 2-28, 2016	55	41	5
c. This option will be used before we fully understand how it affects people's health Mar 2-28, 2016	74	23	3
f. Widespread use of this option will lead to new innovation and problem-solving in society Mar 2-28, 2016	51	44	4

ASK FORM 2 ONLY [XFORM=2] [N=5,107]:

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]**

Nov 1-7, 2021

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

TREND FOR COMPARISON

Thinking about the possibility of an implanted device giving HEALTHY people a much improved ability to concentrate and process information...

CHIP5 Which of these statements comes closer to your view, even if neither is exactly right?

Mar 2-28, 2016

46	As humans, we are always trying to better ourselves and this idea is no different
51	This idea is meddling with nature and crosses a line we should not cross
3	No answer

ASK FORM 2 ONLY [XFORM=2] [N=5,107]:

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...

Nov 1-7, 2021

60	Feel pressure to get this
38	Not feel pressure to get this
2	No answer

[RANDOMIZE ORDER OF BCHIP7 AND BCHIP8]**ASK FORM 2 ONLY [XFORM=2] [N=5,107]:**

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]**

Nov 1-7, 2021

24	Better than now
31	Worse than now
42	About the same as now
3	No answer

[RANDOMIZE ORDER OF BCHIP7 AND BCHIP8]**ASK FORM 2 ONLY [XFORM=2] [N=5,107]:**

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]**

Nov 1-7, 2021

57	Increase the gap between higher and lower-income Americans
10	Decrease the gap between higher and lower-income Americans
30	Not make much difference
3	No answer

ASK FORM 2 ONLY [XFORM=2] [N=5,107]:

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]**

	<u>A lot of the time</u>	<u>Some of the time</u>	<u>Rarely or never</u>	<u>No answer</u>
a. The computer chip implant would malfunction Nov 1-7, 2021	37	54	7	2
b. Hackers would gain access to people's computer chip information without consent Nov 1-7, 2021	52	39	7	1
c. The computer chip implant would cause unwanted changes to the way the brain functions Nov 1-7, 2021	51	41	6	2

ASK FORM 2 ONLY [XFORM=2] [N=5,107]:

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]**

	<u>A major role</u>	<u>A minor role</u>	<u>No role at all</u>	<u>No answer</u>
a. Federal government agencies Nov 1-7, 2021	44	27	27	2
b. The companies that develop these computer chip implants Nov 1-7, 2021	46	35	17	2
c. The people getting these computer chip implants Nov 1-7, 2021	65	21	12	2
d. The medical doctors who implant the computer chips in the brain Nov 1-7, 2021	64	24	10	2

ASK FORM 2 ONLY [XFORM=2] [N=5,107]:

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]

Nov 1-7, 2021

47	Government will <u>go too far</u> regulating their use
50	Government will <u>not go far enough</u> regulating their use
3	No answer

ASK FORM 2 ONLY [XFORM=2] [N=5,107]:

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]**

Nov 1-7, 2021

13	Existing standards used for medical devices
83	A higher standard than used for medical devices
3	No answer

ASK FORM 2 ONLY [XFORM=2] [N=5,107]:

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]

	<u>More acceptable</u>	<u>Less acceptable</u>	<u>No difference</u>	<u>No answer</u>
a. If people could turn on and off the effects Nov 1-7, 2021	59	9	31	2
b. If it could be put in place without surgery Nov 1-7, 2021	53	9	36	2

TREND FOR COMPARISON

CHIP8 Would an implanted device giving HEALTHY people a much improved ability to concentrate and process information be more acceptable, less acceptable, or would it make no difference in each of these circumstances?

- a. If people could turn on and off the effects

Mar 2-28, 2016

32	More acceptable
16	Less acceptable
49	No difference
3	No answer

ASK FORM 2 ONLY [XFORM=2] [N=5,107]:

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]**

	<u>Favor</u>	<u>Oppose</u>	<u>Not sure</u>	<u>No answer</u>
a. To treat age-related decline in mental abilities				
Nov 1-7, 2021	64	13	21	1
b. To allow increased movement for people who are paralyzed				
Nov 1-7, 2021	77	8	14	1
c. To make it possible for thoughts in the brain to search content on the internet without typing				
Nov 1-7, 2021	25	42	31	1
d. To translate thoughts in the brain, without speaking, into text on a screen				
Nov 1-7, 2021	32	34	32	1

[PROGRAMMING NOTE: ASK BLOCKS 4-6 IF FORM 2; RANDOMIZE ORDER OF BLOCKS]**BLOCK 5****ASK FORM 2 ONLY [XFORM=2] [N=5,107]:**

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.

ASK FORM 2 ONLY [XFORM=2] [N=5,107]:

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?

Nov 1-7, 2021

8	A lot
47	A little
44	Nothing at all
1	No answer

TREND FOR COMPARISON

New developments in genetics and gene-editing techniques are making it possible to treat some diseases and conditions by modifying a person's genes. In the future, gene-editing techniques could be used for any newborn, by changing the DNA of the embryo before it is born, and giving that baby a much reduced risk of serious diseases and conditions over his or her lifetime. Any changes to a baby's genetic make-up could be passed on to future generations if they later have children, and over the long term this could change the genetic characteristics of the population.

GEN1 How much have you heard or read about this idea before today?

Mar 2-28, 2016

9	A lot
48	A little
42	Not at all
1	No answer

ASK FORM 2 ONLY [XFORM=2] [N=5,107]:

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...

Nov 1-7, 2021

30	Good idea for society
30	Bad idea for society
39	Not sure
*	No answer

ASK FORM 2 ONLY [XFORM=2] [N=5,107]:

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?

Nov 1-7, 2021

16	Yes, I would definitely want this for my baby
32	Yes, I would probably want this for my baby
25	No, I would probably NOT want this for my baby
24	No, I would definitely NOT want this for my baby
3	No answer

TREND FOR COMPARISON

GEN2 If you had a baby, do you think this gene-editing -- giving a much reduced risk of serious diseases and conditions over his or her lifetime -- is something that you, personally, would want for your baby or not something you would want for your baby?

Mar 2-28, 2016

16	Yes, I would definitely want this for my baby
32	Yes, I would probably want this for my baby
28	No, I would probably NOT want this for my baby
21	No, I would definitely NOT want this for my baby
2	No answer

ASK FORM 2 ONLY [XFORM=2] [N=5,107]:

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]**

		Definitely would <u>happen</u>	Probably would <u>happen</u>	Probably would NOT <u>happen</u>	Definitely would NOT <u>happen</u>	No <u>answer</u>
a.	Even if gene editing is used appropriately in some cases, others would use these techniques in ways that are morally unacceptable Nov 1-7, 2021	45	39	9	5	2
b.	These gene editing techniques would help people live longer and better quality lives Nov 1-7, 2021	13	52	23	9	3
c.	Development of these gene editing techniques would pave the way for new medical advances that benefit society as a whole Nov 1-7, 2021	16	51	22	8	3
d.	These gene editing techniques would go too far eliminating natural differences between people in society Nov 1-7, 2021	24	44	22	7	3

TREND FOR COMPARISON

MED6 Thinking about society as a whole...

How likely, if at all, do you think each of the following would be to occur if gene editing to change a baby's genetic characteristics becomes widely available? **[RANDOMIZE ITEMS]**

	<u>Very likely</u>	<u>Fairly likely</u>	<u>Not too likely</u>	<u>Not at all likely</u>	<u>No answer</u>
a. Even if gene editing is used appropriately in some cases, others will use these techniques in ways that are morally unacceptable Apr 23-May 6, 2018	54	32	9	3	1
b. These techniques will help people live longer and better quality lives Apr 23-May 6, 2018	16	48	27	8	2
e. Development of these techniques will pave the way for new medical advances that benefit society as a whole Apr 23-May 6, 2018	18	42	30	8	1

ASK FORM 2 ONLY [XFORM=2] [N=5,107]:

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]**

Nov 1-7, 2021

46	As humans, we are always trying to better ourselves and this idea is no different.
52	This idea is meddling with nature and crosses a line we should not cross.
2	No answer

TREND FOR COMPARISON

Thinking about the possibility of this gene-editing giving HEALTHY babies a much reduced risk of serious diseases and conditions ...

GEN5 Which of these statements comes closer to your view, even if neither is exactly right? **[RANDOMIZE RESPONSE OPTIONS]**

Mar 2-28, 2016

51	As humans, we are always trying to better ourselves and this idea is no different.
46	This idea is meddling with nature and crosses a line we should not cross.
3	No answer

ASK FORM 2 ONLY [XFORM=2] [N=5,107]:

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...

Nov 1-7, 2021

73	Feel pressure to get this for their baby
25	Not feel pressure to get this for their baby
2	No answer

RANDOMIZE ORDER OF GENEV7 AND GENEV8**ASK FORM 2 ONLY [XFORM=2] [N=5,107]:**

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]**

Nov 1-7, 2021

39	Better than now
18	Worse than now
40	About the same as now
3	No answer

RANDOMIZE ORDER OF GENEV7 AND GENEV8**ASK FORM 2 ONLY [XFORM=2] [N=5,107]:**

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]**

Nov 1-7, 2021

55	Increase the gap between higher and lower-income Americans
8	Decrease the gap between higher and lower-income Americans
35	Not make much difference
2	No answer

ASK FORM 2 ONLY [XFORM=2] [N=5,107]:

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]**

	<u>A major role</u>	<u>A minor role</u>	<u>No role at all</u>	<u>No answer</u>
a. Federal government agencies Nov 1-7, 2021	41	31	26	2
b. The companies that develop these gene editing techniques Nov 1-7, 2021	44	35	19	2
c. People who get these gene editing techniques Nov 1-7, 2021	55	29	15	2
d. The medical scientists who provide these gene editing techniques Nov 1-7, 2021	67	21	10	2

ASK FORM 2 ONLY [XFORM=2] [N=5,107]:

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]

Nov 1-7, 2021

47	Government will <u>go too far</u> regulating their use
51	Government will <u>not go far enough</u> regulating their use
2	No answer

ASK FORM 2 ONLY [XFORM=2] [N=5,107]:

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]**

Nov 1-7, 2021

17	Existing standards used for medical treatments
80	A higher standard than used for medical treatments
2	No answer

ASK FORM 2 ONLY [XFORM=2] [N=5,107]:

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]**

	<u>More acceptable</u>	<u>Less acceptable</u>	<u>No difference</u>	<u>No answer</u>
a. If people could choose which diseases and conditions are affected Nov 1-7, 2021	49	15	34	2
b. If the effects were limited to that person and NOT passed on to future generations Nov 1-7, 2021	48	16	34	2
c. If gene editing were only used in adults who could consent to the procedure, rather than for babies Nov 1-7, 2021	53	11	34	2

TREND FOR COMPARISON

GEN8 Would this gene-editing giving HEALTHY babies a much reduced risk of serious diseases and conditions be more acceptable, less acceptable, or would it make no difference in each of these circumstances?

a. If people could choose which diseases and conditions are affected

Mar 2-28, 2016

41	More acceptable
17	Less acceptable
39	No difference
3	No answer

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

Mar 2-28, 2016

34	More acceptable
23	Less acceptable
40	No difference
3	No answer

ASK FORM 2 ONLY [XFORM=2] [N=5,107]:

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]**

	<u>Favor</u>	<u>Oppose</u>	<u>Not sure</u>	<u>No answer</u>
a. To change a baby's physical characteristics to make them more attractive Nov 1-7, 2021	5	74	20	1
b. To treat serious diseases or health conditions that a person currently has Nov 1-7, 2021	71	10	18	1

[PROGRAMMING NOTE: ASK BLOCKS 4-6 IF FORM 2; RANDOMIZE ORDER OF BLOCKS]**BLOCK 6****ASK FORM 2 ONLY [XFORM=2] [N=5,107]:**

EXOVI3 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.

ASK FORM 2 ONLY [XFORM=2] [N=5,107]:

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

Nov 1-7, 2021

6	A lot
37	A little
57	Nothing at all
*	No answer

ASK FORM 2 ONLY [XFORM=2] [N=5,107]:

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

Nov 1-7, 2021

33	Good idea for society
24	Bad idea for society
42	Not sure
*	No answer

ASK FORM 2 ONLY [XFORM=2] [N=5,107]:

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?

Nov 1-7, 2021

15	Definitely want
30	Probably want
33	Probably NOT want
21	Definitely NOT want
1	No answer

ASK FORM 2 ONLY [XFORM=2] [N=5,107]:EXOV4 If the use of robotic exoskeletons for manual labor becomes widespread, do you think each of the following would happen? **[RANDOMIZE ITEMS]**

		Definitely would <u>happen</u>	Probably would <u>happen</u>	Probably would NOT <u>happen</u>	Definitely would NOT <u>happen</u>	<u>No answer</u>
a.	Employers would need fewer workers and lay off part of their work force					
	Nov 1-7, 2021	38	44	14	3	2
b.	Workers would experience fewer workplace injuries					
	Nov 1-7, 2021	17	53	23	5	2
c.	Workers would lose strength by relying too much on exoskeletons					
	Nov 1-7, 2021	22	51	21	4	2
d.	More people would be able to do manual labor jobs					
	Nov 1-7, 2021	20	45	24	8	2

ASK FORM 2 ONLY [XFORM=2] [N=5,107]: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]**Nov 1-7, 2021

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

ASK FORM 2 ONLY [XFORM=2] [N=5,107]:

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]**

Nov 1-7, 2021

32	Better than now
31	Worse than now
36	About the same as now
2	No answer

ASK FORM 2 ONLY [XFORM=2] [N=5,107]:

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]**

Nov 1-7, 2021

40	Robotic exoskeletons should only be made if they fit a wide range of worker body types, even if that increase their cost
17	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
41	Not sure
1	No answer

ASK FORM 2 ONLY [XFORM=2] [N=5,107]:

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]**

	<u>A major role</u>	<u>A minor role</u>	<u>No role at all</u>	<u>No answer</u>
a. Federal government agencies Nov 1-7, 2021	35	39	25	2
b. The companies that develop robotic exoskeletons Nov 1-7, 2021	55	31	12	2
c. The workers themselves Nov 1-7, 2021	67	22	9	2
d. Employers Nov 1-7, 2021	49	38	11	2

ASK FORM 2 ONLY [XFORM=2] [N=5,107]:

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

Nov 1-7, 2021

49	Government will <u>go too far</u> regulating their use
48	Government will <u>not go far enough</u> regulating their use
3	No answer

ASK FORM 2 ONLY [XFORM=2] [N=5,107]:

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]**

Nov 1-7, 2021

26	Existing standards used for workplace equipment
72	A higher standard than used for workplace equipment
2	No answer

ASK FORM 2 ONLY [XFORM=2] [N=5,107]:

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?

	<u>More acceptable</u>	<u>Less acceptable</u>	<u>No difference</u>	<u>No answer</u>
a. If employers could only use robotic exoskeletons to improve worker safety, rather than to increase their productivity Nov 1-7, 2021	59	14	25	2
b. If people were required to be licensed to operate robotic exoskeletons Nov 1-7, 2021	68	10	21	1

ASK FORM 2 ONLY [XFORM=2] [N=5,107]:

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]**

	<u>Favor</u>	<u>Oppose</u>	<u>Not sure</u>	<u>No answer</u>
a. To improve the quality of life for people with physical limitations Nov 1-7, 2021	79	6	14	1
b. To give people greater strength for recreational activities Nov 1-7, 2021	20	49	30	1
c. To increase the ability of firefighters to lift in emergency situations Nov 1-7, 2021	77	7	14	1