# Methodology

# $The \, American \, Trends \, Panel \, survey \, methodology \,$

### Overview

The American Trends Panel (ATP), created by Pew Research Center, is a nationally representative panel of randomly selected U.S. adults. Panelists participate via self-administered web surveys. Panelists who do not have internet access at home are provided with a tablet and wireless internet connection. Interviews are conducted in both English and Spanish. The panel is being managed by Ipsos.

Data in this report is drawn from the panel wave conducted from Nov. 1 to Nov. 7, 2021. A total of 10,260 panelists responded out of 11,492 who were sampled, for a response rate of 89%. The cumulative response rate accounting for nonresponse to the recruitment surveys and attrition is 3%. The break-off rate among panelists who logged on to the survey and completed at least one item is 1%. The margin of sampling error for the full sample of 10,260 respondents is plus or minus 1.6 percentage points.

# **Panel recruitment**

The ATP was created in 2014, with the first cohort of panelists invited to join the panel at the end of a large, national, landline and cellphone random-digit-dial survey that was conducted in both English and Spanish. Two additional recruitments were conducted using the same method in 2015 and 2017, respectively. Across these three surveys, a total of 19,718 adults were invited to join the ATP, of whom 9,942 (50%) agreed to participate.

In August 2018, the ATP switched from telephone to

| Recruitment dates                                     | Mode                  | Invited | Joined | Active<br>panelists<br>remaining |
|---|-----------------------|---------|--------|----------------------------------|
| Jan. 23 to March 16, 2014                             | Landline/<br>cell RDD | 9,809   | 5,338  | 1,603                            |
| Aug. 27 to Oct. 4, 2015                               | Landline/<br>cell RDD | 6,004   | 2,976  | 939                              |
| April 25 to June 4, 2017                              | Landline/<br>cell RDD | 3,905   | 1,628  | 470                              |
| Aug. 8 to Oct. 31, 2018                               | ABS                   | 9,396   | 8,778  | 4,432                            |
| Aug. 19 to Nov. 30, 2019                              | ABS                   | 5,900   | 4,720  | 1,625                            |
| June 1 to July 19, 2020;<br>Feb. 10 to March 31, 2021 | ABS                   | 3,197   | 2,812  | 1,698                            |
| May 29 to July 7, 2021                                | ABS                   | 1,085   | 947    | 725                              |
|   | Total                 | 39,296  | 27,199 | 11,492                           |

Note: Approximately once per year, panelists who have not participated in multiple consecutive waves or who did not complete an annual profiling survey are removed from the panel. Panelists also become inactive if they ask to be removed from the panel. The 2021 recruitment survey was ongoing at the time this survey was conducted. The counts reflect completed recruitment interviews up through July 7, 2021.

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address-based recruitment. Invitations were sent to a stratified, random sample of households selected from the U.S. Postal Service's Delivery Sequence File. Sampled households receive mailings asking a randomly selected adult to complete a survey online. A question at the end of the survey asks if the respondent is willing to join the ATP. Starting in 2020 another stage was added to the recruitment. Households that do not respond to the online survey are sent a paper version of the questionnaire, \$5 and a postage-paid return envelope. A subset of the adults returning the paper version of the survey are invited to join the ATP. This subset of adults receive a follow-up mailing with a \$10 pre-incentive and invitation to join the ATP.

Across the four address-based recruitments, a total of 19,578 adults were invited to join the ATP, of whom 17,257 agreed to join the panel and completed an initial profile survey. In each household, the adult with the next birthday was asked to go online to complete a survey, at the end of which they were invited to join the panel. Of the 27,199 individuals who have ever joined the ATP, 11,492 remained active panelists and continued to receive survey invitations at the time this survey was conducted.

The U.S. Postal Service's Delivery Sequence File has been estimated to cover as much as 98% of the population, although some studies suggest that the coverage could be in the low 90% range. The American Trends Panel never uses breakout routers or chains that direct respondents to additional surveys.

# Sample design

The overall target population for this survey was non-institutionalized persons ages 18 and older, living in the U.S., including Alaska and Hawaii.

# Questionnaire development and testing

The questionnaire was developed by Pew Research Center in consultation with Ipsos. The web program was rigorously tested on both PC and mobile devices by the Ipsos project management team and Pew Research Center researchers. The Ipsos project management team also populated test data that was analyzed in SPSS to ensure the logic and randomizations were working as intended before launching the survey.

# **Incentives**

All respondents were offered a post-paid incentive for their participation. Respondents could choose to receive the post-paid incentive in the form of a check or a gift code to Amazon.com or

<sup>&</sup>lt;sup>1</sup> AAPOR Task Force on Address-based Sampling. 2016. "AAPOR Report: Address-based Sampling."

could choose to decline the incentive. Incentive amounts ranged from \$5 to \$20 depending on whether the respondent belongs to a part of the population that is harder or easier to reach. Differential incentive amounts were designed to increase panel survey participation among groups that traditionally have low survey response propensities.

# **Data collection protocol**

The data collection field period for this survey was Nov. 1 to Nov. 7, 2021. Postcard notifications were mailed to all ATP panelists with a known residential address on Nov. 1.

Invitations were sent out in two separate launches: Soft Launch and Full Launch. Sixty panelists were included in the soft launch, which began with an initial invitation sent on Nov. 1, 2021. The ATP panelists chosen for the initial soft launch were known responders who had completed previous ATP surveys within one day of receiving their invitation. All remaining English- and Spanish-speaking panelists were included in the full launch and were sent an invitation on Nov. 2.

All panelists with an email address received an email invitation and up to two email reminders if they did not respond to the survey. All ATP panelists that consented to SMS messages received an SMS invitation and up to two SMS reminders.

| Invitation and reminder dates |              |              |  |  |
|-------------------------------|--------------|--------------|--|--|
|                               | Soft Launch  | Full Launch  |  |  |
| Initial invitation            | Nov. 1, 2021 | Nov. 2, 2021 |  |  |
| First reminder                | Nov. 4, 2021 | Nov. 4, 2021 |  |  |
| Final reminder                | Nov. 6, 2021 | Nov. 6, 2021 |  |  |

# **Data quality checks**

To ensure high-quality data, the Center's researchers performed data quality checks to identify any respondents showing clear patterns of satisficing. This includes checking for very high rates of leaving questions blank, as well as always selecting the first or last answer presented. As a result of this checking, 19 ATP respondents were removed from the survey dataset prior to weighting and analysis.

# Weighting

The ATP data is weighted in a multistep process that accounts for multiple stages of sampling and nonresponse that occur at different points in the survey process. First, each panelist begins with a base weight that reflects their probability of selection for their initial recruitment survey. The base weights for panelists recruited in different years are scaled to be proportionate to the effective sample size for all active panelists in their cohort and then calibrated to align with the population benchmarks in the accompanying table to

| Weighting dimensions  |  |  |  |
|---|--|--|--|
| Variable  | Benchmark source   |  |  |
| Age x Gender Education x Gender Education x Age Race/Ethnicity x Education Born inside vs. outside the U.S. among Hispanics and Asian Americans Years lived in the U.S. | 2019 American Community Survey<br>(ACS)                  |  |  |
| Census region x Metro/Non-metro   | 2020 CPS March Supplement                                |  |  |
| Volunteerism  | 2019 CPS Volunteering & Civic Life<br>Supplement         |  |  |
| Voter registration  | 2018 CPS Voting and Registration<br>Supplement           |  |  |
| Party affiliation Frequency of internet use Religious affiliation   | 2021 National Public Opinion<br>Reference Survey (NPORS) |  |  |
| Note: Estimates from the ACS are based on not calculated using procedures from Hur, Achen (2 adult population.  |  |  |  |

correct for nonresponse to recruitment surveys and panel attrition. If only a subsample of panelists was invited to participate in the wave, this weight is adjusted to account for any differential probabilities of selection.

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Among the panelists who completed the survey, this weight is then calibrated again to align with the population benchmarks identified in the accompanying table and trimmed at the 1st and 99th percentiles to reduce the loss in precision stemming from variance in the weights. Sampling errors and tests of statistical significance take into account the effect of weighting.

Some of the population benchmarks used for weighting come from surveys conducted prior to the coronavirus outbreak that began in February 2020. However, the weighting variables for panelists recruited in 2021 were measured at the time they were recruited to the panel. Likewise, the profile variables for existing panelists were updated from panel surveys conducted in July or August 2021.

This does not pose a problem for most of the variables used in the weighting, which are quite stable at both the population and individual levels. However, volunteerism may have changed over the intervening period in ways that made their 2021 measurements incompatible with the

available (pre-pandemic) benchmarks. To address this, volunteerism is weighted using the profile variables that were measured in 2020. For all other weighting dimensions, the more recent panelist measurements from 2021 are used.

For panelists recruited in 2021, plausible values were imputed using the 2020 volunteerism values from existing panelists with similar characteristics. This ensures that any patterns of change that were observed in the existing panelists were also reflected in the new recruits when the weighting was performed.

The following table shows the unweighted sample sizes and the error attributable to sampling that would be expected at the 95% level of confidence for different groups in the survey.

| <b>Group</b><br>Total sample | Unweighted sample size 10,260 | Plus or minus 1.6 percentage points |
|------------------------------|-------------------------------|-------------------------------------|
| Form 1                       | 5,153                         | 2.3 percentage points               |
| White, non-Hispanic          | 3,601                         | 2.6 percentage points               |
| Black, non-Hispanic          | 407                           | 7.2 percentage points               |
| Hispanic                     | 734                           | 7.1 percentage points               |

Sample sizes and sampling errors for other subgroups are available upon request. In addition to sampling error, one should bear in mind that question wording and practical difficulties in conducting surveys can introduce error or bias into the findings of opinion polls.

# **Dispositions and response rates**

| Final dispositions                                   | AAPOR code | Total  |
|--|------------|--------|
| Completed interview                                  | 1.1        | 10,260 |
| Logged onto survey; broke off                        | 2.12       | 112    |
| Logged onto survey; did not complete any items       | 2.1121     | 193    |
| Never logged on (implicit refusal)                   | 2.11       | 906    |
| Survey completed after close of the field period     | 2.27       | 2      |
| Completed interview but was removed for data quality |            | 19     |
| Screened out   |            | 0      |
| Total panelists in the survey                        |            | 11,492 |
| Completed interviews                                 | l          | 10,260 |
| Partial interviews                                   | Р          | 0      |
| Refusals   | R          | 1,230  |
| Non-contact  | NC         | 2      |
| Other  | 0          | 0      |
| Unknown household                                    | UH         | 0      |
| Unknown other  | UO         | 0      |
| Not eligible   | NE         | 0      |
| Total  |            | 11,492 |
| AAPOR RR1 = I / (I+P+R+NC+O+UH+UO)                   |            | 89%    |

| Cumulative response rate  | Total |
|---|-------|
| Weighted response rate to recruitment surveys   | 12%   |
| % of recruitment survey respondents who agreed to join the panel, among those invited | 69%   |
| % of those agreeing to join who were active panelists at start of Wave 99             | 42%   |
| Response rate to Wave 99 survey   | 89%   |
| Cumulative response rate  | 3%    |

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# **Topline**

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

THE QUESTIONS PRESENTED BELOW ARE PART OF A LARGER SURVEY CONDUCTED ON THE AMERICAN TRENDS PANEL. OTHER QUESTIONS ON THIS SURVEY HAVE BEEN PREVIOUSLY RELEASED.

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.

U.S. adults

Margin of error at 95%
confidence level
+/- 1.6 percentage points

[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]:**

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<br>would<br><u>happen</u> | Probably<br>would<br><u>happen</u> | Probably<br>would NOT<br><u>happen</u> | Definitely<br>would NOT<br><u>happen</u> | No answer |
|----|---|--------------------------------------|------------------------------------|--|--|-----------|
| a. | Make more false<br>arrests<br>Nov 1-7, 2021   | 16                                   | 38                                 | 40                                     | <u></u> 5                                | 2         |
| b. | Solve crimes more   | 10                                   | 30                                 | 40                                     | 3  | 2         |
|    | quickly and efficiently<br>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 | 26                                   | 40                                 | 24                                     | 8  | 2         |
| d. | Nov 1-7, 2021   | 20                                   | 40                                 | 24                                     | 0  | 2         |
| u. | Find more missing persons Nov 1-7, 2021   | 21                                   | 57                                 | 18                                     | 2  | 1         |
| e. | Be able to track<br>everyone's location at<br>all times<br>Nov 1-7, 2021                                | 27                                   | 42                                 | 24                                     | 6  | 1         |
| f. | Be better able to keep<br>crowds under control<br>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]:

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

|    |  | More<br><u>acceptable</u> | Less<br><u>acceptable</u> | No difference | No answer |
|----|--|---------------------------|---------------------------|---------------|-----------|
| 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]:**

FACEREC10 If a f

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 answei |

# **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> | Not acceptable | No answer |
|----|---|-------------------|----------------|-----------|
| a. | At public protests<br>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<br>Nov 1-7, 2021                                     | 31                | 68             | 1         |