Mass Support for Dynamic Climate Policy

Questionnaire

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1. Informed Consent

We invite you to participate in a research project being conducted by investigators from Washington University in St. Louis and Stanford University. The purpose of the study is to examine people's thoughts about contemporary political and economic issues**.**

If you agree to participate, we would like you to complete a short survey about your public policy views. The survey should take no longer than 15 minutes. There are no known risks from being in this study, and you will not benefit personally. However we hope that others may benefit in the future from what we learn as a result of this study. You will not have any costs for being in this research study.

All participants who complete the survey will receive standard compensation and will be automatically entered into several prize drawings for an Amazon gift card. The prize drawings will take place in December 2018 and will be conducted by our research team. The winners will be informed individually.

Your responses will be anonymous - you will not be individually identified and your responses will be used for statistical purposes only. The investigators will only receive de-identified survey responses with no information about you. However, federal regulatory agencies and the universities conducting the study, including their Institutional Review Boards (a committee that reviews and approves research studies) and the Human Research Protection Office may inspect and copy records pertaining to this research. If we write a report about this study we will do so in such a way that you cannot be identified.

Your participation in this study is completely voluntary. You may choose not to take part at all. Any data that was collected as part of this study will remain as part of the study records and cannot be removed. If you decide to participate in the study you may stop participating at any time by closing out of your browser. You will not be penalized or lose any benefits for which you otherwise qualify.

If you have any questions about or feel harmed from being in the study, please contact the investigators at surveyresearchcontact@gmail.com. If you have questions, concerns, or complaints about your rights as a research participant, please contact the Human Research Protection Office at 660 South Euclid Avenue, Campus Box 8089, St. Louis, MO 63110, 1-(800)-438-0445 or email hrpo@wustl.edu. You may also contact the Research Compliance Office at Stanford University at irb2-manager@lists.stanford.edu or (650) 723-2480. General information about being a research participant can be found on the Human Research Protection Office web site, http://hrpo.wustl.edu. To offer input about your experiences as a research participant or to speak to someone other than the research staff, call either of the numbers above.

Please select one of the following options:

- [ ] I agree to participate
- [ ] I do not agree to participate

2. Warm-up questions

a) On the whole, how satisfied or dissatisfied are you with the environmental climate (e.g., temperature, rainfall,…) in your area over the last year?
b) On the whole, how satisfied or dissatisfied are you with the present state of the economy in the United States?

Very satisfied (1),…, very dissatisfied (10)

[NOTE: Modules 3, 4, and 5 should rotate randomly]

3. Climate Cost Distribution

Q: As you probably know, many experts say that countries should take action to address global warming.

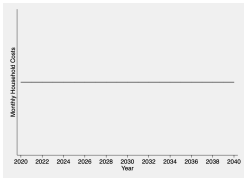
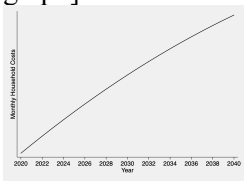
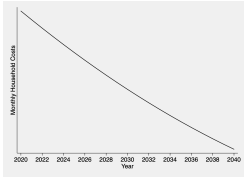
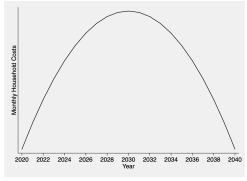
Generally speaking, how strongly do you support or oppose [your country] joining an international agreement to reduce greenhouse gas emissions if implementing the agreement would mean that…

….each household would have to pay $[$53, $107, $213, $267] more per month through, for example, higher energy prices.

Strongly support (1),…, strongly oppose (10)

Q: Regardless of your previous answer, suppose [COUNTRY] is going to implement that international agreement and the household costs would still be $ [same costs as above] per month on average. However, there are different ways of distributing these costs over time. The figures below indicate four alternatives. If you had to select one of the options in a referendum, which would you chose? Please carefully consider the available options. In addition, you can rate each option individually.

[Show plots with the following cost distributions and let individuals choose their favorite; randomize order of options, the figures are available from the PIs.]

Option 1	Option 2	Option 3	Option 4
[constant costs graph] 	[increasing costs graph] 	[decreasing costs graph] 	[inverse U costs graph] 
Costs remain the same over the entire period.	Costs are lower initially and higher later.	Costs are higher initially and lower later.	Costs are lower initially, higher in the middle, and lower later

Q: Please let us know why you chose this response.

OPEN TEXTBOX

4. Dynamic Climate Policy Conjoints

4.1. Climate Policy Cost Path Conjoint (Paired)

We will now provide you with several scenarios which describe a set policies for the United States that will impact climate change and information about what other major economies are doing. The scenarios will vary in how costly they are to households, how those costs will change over time, whether investments will be made in mitigation efforts to reduce greenhouse gas emissions thus making global warming less likely or in adaptation efforts to adjust to environmental change to lessen the negative effects of global warming. These dimensions will vary both for the United States and in other major economies.

For each comparison we would like you to tell us which of the scenarios you prefer. You may like several alternatives similarly or may not like either of them at all. Regardless of your overall evaluation, please indicate which alternative you prefer.

In total, we will show you 10 comparisons. People have different opinions about this issue and there are no right or wrong answers. Please take your time when reading the potential scenarios. In addition to deciding which scenario you prefer, we also ask you how effective you think each scenario will be in addressing climate change.

	Scenario 1	Scenario 2
In the United States:		
Distribution of costs over time [show one of three plots: gradually increasing, constant over time, gradually decreasing]		
Average household costs per month FR, GE, UK, US €28, €39, £15, $53 €56, €77, £30, $107 €113, €154, £60, $213 €141, €193, £75, $267		
Percentage invested in adaptation efforts (e.g., developing new technology, building dams, improving disaster resilience of housing) Percentage invested in mitigation (e.g., reducing greenhouse gas emissions and removing greenhouse gases from the atmosphere) [Randomly draw integers x from (0,100)% for adaptation and compute mitigation share as (100-x)%]		
In other major economies:		
Percentage invested in adaptation efforts in other major economies (e.g., developing new technology, building dams, improving disaster resilience of housing) Percentage invested in mitigation in other major economies (e.g., reducing greenhouse gas emissions and removing greenhouse gases from the atmosphere) [Randomly draw integers x from (0,100)% for adaptation and compute mitigation share as (100-x)%]		
Distribution of costs over time in other major economies [show one of three plots: gradually increasing, constant over time, gradually decreasing]		

Average Household costs per month in other major economies FR, GE, UK, US €28, €39, £15, $53 €56, €77, £30, $107 €113, €154, £60, $213 €141, €193, £75, $267		
Which of these scenarios do you prefer?		

How effective or ineffective do you think each of these scenarios will be at addressing climate change? Please give your answer on the following scale from not effective at all (1) to very effective (10).

	Not effective at all (1)	2	3	4	5	6	7	8	9	Very effective (10)	Don't know
Scenario 1											
Scenario 2											

4.2. Climate Policy Timing Conjoint (Paired)

We will now provide you with several scenarios which describe a set policies for the United States that will impact climate change and information about what other major economies are doing. The scenarios will vary in how costly they are to households, when the costs will start, whether investments will be made in mitigation efforts to reduce greenhouse gas emissions thus making global warming less likely or in adaptation efforts to adjust to environmental change to lessen the negative effects of global warming. These dimensions will vary both for the United States and in other major economies.

For each comparison we will ask you to rank the scenarios in the order that you prefer. You may like several alternatives similarly or may not like them at all. Regardless of your overall evaluation, please indicate your ranking of the alternatives.

In total, we will show you 10 comparisons. People have different opinions about this issue and there are no right or wrong answers. Please take your time when reading the potential scenarios. In addition to deciding your ranking, we also ask you how effective you think each scenario will be in addressing climate change.

	Scenario 1	Scenario 2
In the United States:		
Year in which household contributions would start (2020(1)2040)		
Average household costs per month FR, GE, UK, US €28, €39, £15, $53 €56, €77, £30, $107 €113, €154, £60, $213 €141, €193, £75, $267		
Percentage invested in adaptation efforts (e.g., developing new technology, building dams, improving disaster resilience of housing) Percentage invested in mitigation (e.g., reducing greenhouse gas emissions and removing greenhouse gases from the atmosphere)		

[Randomly draw integers x from (0,100)% for adaptation and compute mitigation share as (100-x)%]		
In other major economies:		
Percentage invested in adaptation efforts in other major economies (e.g., developing new technology, building dams, improving disaster resilience of housing) Percentage invested in mitigation in other major economies (e.g., reducing greenhouse gas emissions and removing greenhouse gases from the atmosphere) [Randomly draw integers x from (0,100)% for adaptation and compute mitigation share as (100-x)%]		
Year in which household contributions would start (2020(1)2040) in other major economies.		
Average household costs per month in other major economies FR, GE, UK, US €28, €39, £15, $53 €56, €77, £30, $107 €113, €154, £60, $213 €141, €193, £75, $267		
Please rank these scenarios in the order that you prefer.		

How effective or ineffective do you think each of these scenarios will be at addressing climate change? Please give your answer on the following scale from not effective at all (1) to very effective (10).

	Not effective at all (1)	2	3	4	5	6	7	8	9	Very effective (10)
Scenario 1										
Scenario 2										

4.3. Climate Policy Timing Conjoint (Triple)

Similar to previous conjoint but with three profiles each

	Policy 1	Policy 2	Policy 3

How effective or ineffective do you think each of these policies will be at addressing climate change? Please give your answer on the following scale from not effective at all (1) to very effective (10).

	Not effective at all (1)	2	3	4	5	6	7	8	9	Very effective (10)
Policy 1										

Policy 2										
Policy 3										

4.4. Climate Policy Timing Conjoint (Quadruple)

Similar to previous conjoint but with four profiles each

	Scenario 1	Scenario 2	Scenario 3	Scenario 4

How effective or ineffective do you think each of these scenarios will be at addressing climate change? Please give your answer on the following scale from not effective at all (1) to very effective (10).

	Not effective at all (1)	2	3	4	5	6	7	8	9	Very effective (10)
Scenario 1										
Scenario 2										
Scenario 3										
Scenario 4										

4.5. Post-Conjoint Open-ended Question

[pipe back in the last conjoint profiles and respondent's answer]
On the last page, you saw the scenarios shown below, and said that you preferred scenario [1/2/3/4]. We're interested in how people make decisions about what they prefer. Please use the box to briefly explain your choice.

[Open-ended question]

4.6. Climate Costs and Benefits Experiment

Experts suggest that the US and other major economies should reduce greenhouse gas emissions today and over the coming years at a level that would raise energy prices in the United States by about $213 per month and household. These costs would be equivalent to two percent of the US gross domestic product.

Suppose that this would avoid [most, some, few, very few] of the economically and environmentally damaging consequences of climate change by [2030, 2040, 2050].

Do you approve or disapprove of the United States implementing those policies?

1 (strongly approve)-10(strongly disapprove)

5. Time, Risk, Fairness, and Beliefs

5.1. Time Preferences Stated

How do you see yourself: are you a person who is generally willing to give up something today in order to benefit from that in the future or are you not willing to do so? Please use a scale from 0 to 10, where a 0 means you are 'very willing to give up something today' and a 10 means you are 'completely unwilling to give up something today '. You can also use the values in between to indicate where you fall on the scale. [RESPONDENTS RANDOMLY GET ONE OF THE FOLLOWING TWO QUESTIONS (THE SCALE IS REVERSED IN ONE OF THEM)]

- ❍ Completely unwilling 0 (1)
- ❍ 1 (2)
- ❍ 2 (3)
- ❍ 3 (4)
- ❍ 4 (5)
- ❍ 5 (6)
- ❍ 6 (7)
- ❍ 7 (8)
- ❍ 8 (9)
- ❍ 9 (10)
- ❍ Very willing 10 (11)

How do you see yourself: are you a person who is generally willing to give up something today in order to benefit from that in the future or are you not willing to do so? Please use a scale from 0 to 10, where a 0 means you are 'very willing to give up something today' and a 10 means you are 'completely unwilling to give up something today '. You can also use the values in between to indicate where you fall on the scale.

- ❍ Very willing 0 (1)
- ❍ 1 (2)
- ❍ 2 (3)
- ❍ 3 (4)
- ❍ 4 (5)
- ❍ 5 (6)
- ❍ 6 (7)
- ❍ 7 (8)
- ❍ 8 (9)
- ❍ 9 (10)
- ❍ Completely unwilling 10 (11)

5.2. Risk Aversion Stated

How do you see yourself: are you a person who generally tries to avoid taking risks or are you willing to take risks? Please use a scale from 0 to 10, where a 0 means you are completely unwilling to take

risks and a 10 means you are very willing to take risks. You can also use the values in between to indicate where you fall on the scale. [RESPONDENTS RANDOMLY GET ONE OF THE FOLLOWING TWO QUESTIONS (THE SCALE IS REVERSED IN ONE OF THEM)]

- ❍ Completely unwilling 0 (1)
- ❍ 1 (2)
- ❍ 2 (3)
- ❍ 3 (4)
- ❍ 4 (5)
- ❍ 5 (6)
- ❍ 6 (7)
- ❍ 7 (8)
- ❍ 8 (9)
- ❍ 9 (10)
- ❍ Very willing 10 (11)

How do you see yourself: are you a person who generally tries to avoid taking risks or are you willing to take risks? Please use a scale from 0 to 10, where a 0 means you are completely unwilling to take risks and a 10 means you are very willing to take risks. You can also use the values in between to indicate where you fall on the scale.

- ❍ Very willing 0 (1)
- ❍ 1 (2)
- ❍ 2 (3)
- ❍ 3 (4)
- ❍ 4 (5)
- ❍ 5 (6)
- ❍ 6 (7)
- ❍ 7 (8)
- ❍ 8 (9)
- ❍ 9 (10)
- ❍ Completely unwilling 10 (11)

5.3. CTB Time and Risk

In the following, you are asked to make 24 decisions involving payments over time. Each question is one decision with a series of options. Each option consists of a sooner payment and a later payment, and you are asked to pick the option that you like the most.

Here is an example of a decision. You do not have to answer this question, as it is only an example.

Payment TODAY of $19.00 and payment in 5 WEEKS of $0 (1)

Payment TODAY of $15.20 and payment in 5 WEEKS of $4.00 (2)

Payment TODAY of $11.40 and payment in 5 WEEKS of $8.00 (3)

Payment TODAY of $7.60 and payment in 5 WEEKS of $12.00 (4)

Payment TODAY of $3.80 and payment in 5 WEEKS of $16.00 (5)

Payment TODAY of $0 and payment in 5 WEEKS of $20.00 (6)

In this example, you are asked to choose your favorite combination of payment today and payment in 5 weeks. As you can see, the sooner payment varies in value from $19 to $0 and the later payment varies in value from $0 to $20.
Note that there is a trade-off between the sooner payment and the later payment across the options. As the sooner payment goes down, the later payment goes up.
Among the 24 decisions that you will make in the following, a computer will randomly draw one of the decisions to determine your actual payout. Hence, for the decision that is drawn, your sooner and later payment will be paid out to you at the sooner and later date stated in the question. Remember that each decision could be the one that counts! It is in your interest to treat every decision as if it could be the one that determines your payment.
In the next six questions, you are asked to choose the amounts that you would like for sure TODAY *and* in 5 WEEKS from today. Each question contains six options of amounts, and you can choose only one option.

Q: Please choose one of the following options of payment TODAY and payment in 5 WEEKS from today.

Payment TODAY of $19.00 and payment in 5 WEEKS of $0 (1)

Payment TODAY of $15.20 and payment in 5 WEEKS of $4.00 (2)

Payment TODAY of $11.40 and payment in 5 WEEKS of $8.00 (3)

Payment TODAY of $7.60 and payment in 5 WEEKS of $12.00 (4)

Payment TODAY of $3.80 and payment in 5 WEEKS of $16.00 (5)

Payment TODAY of $0 and payment in 5 WEEKS of $20.00 (6)

Q: Please choose one of the following options of payment TODAY and payment in 5 WEEKS from today.

Payment TODAY of $18.00 and payment in 5 WEEKS of $0 (1)

Payment TODAY of $14.40 and payment in 5 WEEKS of $4.00 (2)

Payment TODAY of $10.80 and payment in 5 WEEKS of $8.00 (3)

Payment TODAY of $7.20 and payment in 5 WEEKS of $12.00 (4)

Payment TODAY of $3.60 and payment in 5 WEEKS of $16.00 (5)

Payment TODAY of $0 and payment in 5 WEEKS of $20.00 (6)

Q: Please choose one of the following options of payment TODAY and payment in 5 WEEKS from today.

Payment TODAY of $17.00 and payment in 5 WEEKS of $0 (1)

Payment TODAY of $13.60 and payment in 5 WEEKS of $4.00 (2)

Payment TODAY of $10.20 and payment in 5 WEEKS of $8.00 (3)

Payment TODAY of $6.80 and payment in 5 WEEKS of $12.00 (4)

Payment TODAY of $3.40 and payment in 5 WEEKS of $16.00 (5)

Payment TODAY of $0 and payment in 5 WEEKS of $20.00 (6)

Q: Please choose one of the following options of payment TODAY and payment in 5 WEEKS from today.

Payment TODAY of $16.00 and payment in 5 WEEKS of $0 (1)

Payment TODAY of $12.80 and payment in 5 WEEKS of $4.00 (2)

Payment TODAY of $9.60 and payment in 5 WEEKS of $8.00 (3)

Payment TODAY of $6.40 and payment in 5 WEEKS of $12.00 (4)

Payment TODAY of $3.20 and payment in 5 WEEKS of $16.00 (5)

Payment TODAY of $0 and payment in 5 WEEKS of $20.00 (6)

Q: Please choose one of the following options of payment TODAY and payment in 5 WEEKS from today.

Payment TODAY of $14.00 and payment in 5 WEEKS of $0 (1)

Payment TODAY of $11.20 and payment in 5 WEEKS of $4.00 (2)

Payment TODAY of $8.40 and payment in 5 WEEKS of $8.00 (3)

Payment TODAY of $5.60 and payment in 5 WEEKS of $12.00 (4)

Payment TODAY of $2.80 and payment in 5 WEEKS of $16.00 (5)

Payment TODAY of $0 and payment in 5 WEEKS of $20.00 (6)

Q: Please choose one of the following options of payment TODAY and payment in 5 WEEKS from today.

Payment TODAY of $11.00 and payment in 5 WEEKS of $0 (1)

Payment TODAY of $8.80 and payment in 5 WEEKS of $4.00 (2)

Payment TODAY of $6.60 and payment in 5 WEEKS of $8.00 (3)

Payment TODAY of $4.40 and payment in 5 WEEKS of $12.00 (4)

Payment TODAY of $2.20 and payment in 5 WEEKS of $16.00 (5)

Payment TODAY of $0 and payment in 5 WEEKS of $20.00 (6)

In the next six questions, you are asked to choose the amounts that you would like for sure TODAY and in 9 WEEKS from today. Each question contains six options of amounts, and you can choose only one option.

Q: Please choose one of the following options of payment TODAY and payment in 9 WEEKS from today.

Payment TODAY of $20.00 and payment in 9 WEEKS of $0 (1)

Payment TODAY of $16.00 and payment in 9 WEEKS of $4.00 (2)

Payment TODAY of $12.00 and payment in 9 WEEKS of $8.00 (3)

Payment TODAY of $8.00 and payment in 9 WEEKS of $12.00 (4)

Payment TODAY of $4.00 and payment in 9 WEEKS of $16.00 (5)

Payment TODAY of $0 and payment in 9 WEEKS of $20.00 (6)

Q: Please choose one of the following options of payment TODAY and payment in 9 WEEKS from today.

Payment TODAY of $19.00 and payment in 9 WEEKS of $0 (1)

Payment TODAY of $15.20 and payment in 9 WEEKS of $4.00 (2)

Payment TODAY of $11.40 and payment in 9 WEEKS of $8.00 (3)

Payment TODAY of $7.60 and payment in 9 WEEKS of $12.00 (4)

Payment TODAY of $3.80 and payment in 9 WEEKS of $16.00 (5)

Payment TODAY of $0 and payment in 9 WEEKS of $20.00 (6)

Q: Please choose one of the following options of payment TODAY and payment in 9 WEEKS from today.

Payment TODAY of $17.00 and payment in 9 WEEKS of $0 (1)

Payment TODAY of $14.40 and payment in 9 WEEKS of $4.00 (2)

Payment TODAY of $10.80 and payment in 9 WEEKS of $8.00 (3)

Payment TODAY of $7.20 and payment in 9 WEEKS of $12.00 (4)

Payment TODAY of $3.60 and payment in 9 WEEKS of $16.00 (5)

Payment TODAY of $0 and payment in 9 WEEKS of $20.00 (6)

Q: Please choose one of the following options of payment TODAY and payment in 9 WEEKS from today.

Payment TODAY of $15.00 and payment in 9 WEEKS of $0 (1)

Payment TODAY of $12.00 and payment in 9 WEEKS of $4.00 (2)

Payment TODAY of $9.00 and payment in 9 WEEKS of $8.00 (3)

Payment TODAY of $6.00 and payment in 9 WEEKS of $12.00 (4)

Payment TODAY of $3.00 and payment in 9 WEEKS of $16.00 (5)

Payment TODAY of $0 and payment in 9 WEEKS of $20.00 (6)

Q: Please choose one of the following options of payment TODAY and payment in 9 WEEKS from today.

Payment TODAY of $12.00 and payment in 9 WEEKS of $0 (1)

Payment TODAY of $9.60 and payment in 9 WEEKS of $4.00 (2)

Payment TODAY of $7.20 and payment in 9 WEEKS of $8.00 (3)

Payment TODAY of $4.80 and payment in 9 WEEKS of $12.00 (4)

Payment TODAY of $2.40 and payment in 9 WEEKS of $16.00 (5)

Payment TODAY of $0 and payment in 9 WEEKS of $20.00 (6)

Q: Please choose one of the following options of payment TODAY and payment in 9 WEEKS from today.

Payment TODAY of $9.00 and payment in 9 WEEKS of $0 (1)

Payment TODAY of $7.20 and payment in 9 WEEKS of $4.00 (2)

Payment TODAY of $5.40 and payment in 9 WEEKS of $8.00 (3)

Payment TODAY of $3.60 and payment in 9 WEEKS of $12.00 (4)

Payment TODAY of $1.80 and payment in 9 WEEKS of $16.00 (5)

Payment TODAY of $0 and payment in 9 WEEKS of $20.00 (6)

In the next six questions, you are asked to choose the amounts that you would like for sure in 5 WEEKS from today and in 10 WEEKS from today. Each question contains six options of amounts, and you can choose only one option.

Q: Please choose one of the following options of payment in 5 WEEKS from today and payment in 10 WEEKS from today.

Payment in 5 WEEKS of $19.00 and payment in 10 WEEKS of $0 (1)

Payment in 5 WEEKS of $15.20 and payment in 10 WEEKS of $4.00 (2)

Payment in 5 WEEKS of $11.40 and payment in 10 WEEKS of $8.00 (3)

Payment in 5 WEEKS of $7.60 and payment in 10 WEEKS of $12.00 (4)

Payment in 5 WEEKS of $3.80 and payment in 10 WEEKS of $16.00 (5)

Payment in 5 WEEKS of $0 and payment in 10 WEEKS of $20.00 (6)

Q: Please choose one of the following options of payment in 5 WEEKS from today and payment in 10 WEEKS from today.

Payment in 5 WEEKS of $18.00 and payment in 10 WEEKS of $0 (1)

Payment in 5 WEEKS of $14.40 and payment in 10 WEEKS of $4.00 (2)

Payment in 5 WEEKS of $10.80 and payment in 10 WEEKS of $8.0 (3)

Payment in 5 WEEKS of $7.20 and payment in 10 WEEKS of $12.00 (4)

Payment in 5 WEEKS of $3.60 and payment in 10 WEEKS of $16.00 (5)

Payment in 5 WEEKS of $0 and payment in 10 WEEKS of $20.00 (6)

Q: Please choose one of the following options of payment in 5 WEEKS from today and payment in 10 WEEKS from today.

Payment in 5 WEEKS of $17.00 and payment in 10 WEEKS of $0 (1)

Payment in 5 WEEKS of $13.60 and payment in 10 WEEKS of $4.00 (2)

Payment in 5 WEEKS of $10.20 and payment in 10 WEEKS of $8.00 (3)

Payment in 5 WEEKS of $6.80 and payment in 10 WEEKS of $12.00 (4)

Payment in 5 WEEKS of $3.40 and payment in 10 WEEKS of $16.00 (5)

Payment in 5 WEEKS of $0 and payment in 10 WEEKS of $20.00 (6)

Q: Please choose one of the following options of payment in 5 WEEKS from today and payment in 10 WEEKS from today.

Payment in 5 WEEKS of $16.00 and payment in 10 WEEKS of $0 (1)

Payment in 5 WEEKS of $12.80 and payment in 10 WEEKS of $4.00 (2)

Payment in 5 WEEKS of $9.60 and payment in 10 WEEKS of $8.00 (3)

Payment in 5 WEEKS of $6.40 and payment in 10 WEEKS of $12.00 (4)

Payment in 5 WEEKS of $3.20 and payment in 10 WEEKS of $16.00 (5)

Payment in 5 WEEKS of $0 and payment in 10 WEEKS of $20.00 (6)

Q: Please choose one of the following options of payment in 5 WEEKS from today and payment in 10 WEEKS from today.

Payment in 5 WEEKS of $14.00 and payment in 10 WEEKS of $0 (1)

Payment in 5 WEEKS of $11.20 and payment in 10 WEEKS of $4.00 (2)

Payment in 5 WEEKS of $8.40 and payment in 10 WEEKS of $8.00 (3)

Payment in 5 WEEKS of $5.60 and payment in 10 WEEKS of $12.00 (4)

Payment in 5 WEEKS of $2.80 and payment in 10 WEEKS of $16.00 (5)

Payment in 5 WEEKS of $0 and payment in 10 WEEKS of $20.00 (6)

Q: Please choose one of the following options of payment in 5 WEEKS from today and payment in 10 WEEKS from today.

Payment in 5 WEEKS of $11.00 and payment in 10 WEEKS of $0 (1)

Payment in 5 WEEKS of $8.80 and payment in 10 WEEKS of $4.00 (2)

Payment in 5 WEEKS of $6.60 and payment in 10 WEEKS of $8.00 (3)

Payment in 5 WEEKS of $4.40 and payment in 10 WEEKS of $12.00 (4)

Payment in 5 WEEKS of $2.20 and payment in 10 WEEKS of $16.00 (5)

Payment in 5 WEEKS of $0 and payment in 10 WEEKS of $20.00 (6)

In the next six questions, you are asked to choose the amounts that you would like for sure in 5 WEEKS from today and in 14 WEEKS from today. Each question contains six options of amounts, and you can choose only one option.

Q: Please choose one of the following options of payment in 5 WEEKS from today and payment in 14 WEEKS from today.

Payment in 5 WEEKS of $20.00 and payment in 14 WEEKS of $0 (1)

Payment in 5 WEEKS of $16.00 and payment in 14 WEEKS of $4.00 (2)

Payment in 5 WEEKS of $12.00 and payment in 14 WEEKS of $8.00 (3)

Payment in 5 WEEKS of $8.00 and payment in 14 WEEKS of $12.00 (4)

Payment in 5 WEEKS of $4.00 and payment in 14 WEEKS of $16.00 (5)

Payment in 5 WEEKS of $0 and payment in 14 WEEKS of $20.00 (6)

Q: Please choose one of the following options of payment in 5 WEEKS from today and payment in 14 WEEKS from today.

Payment in 5 WEEKS of $19.00 and payment in 14 WEEKS of $0 (1)

Payment in 5 WEEKS of $15.20 and payment in 14 WEEKS of $4.00 (2)

Payment in 5 WEEKS of $11.40 and payment in 14 WEEKS of $8.00 (3)

Payment in 5 WEEKS of $7.60 and payment in 14 WEEKS of $12.00 (4)

Payment in 5 WEEKS of $3.80 and payment in 14 WEEKS of $16.00 (5)

Payment in 5 WEEKS of $0 and payment in 14 WEEKS of $20.00 (6)

Q: Please choose one of the following options of payment in 5 WEEKS from today and payment in 14 WEEKS from today.

Payment in 5 WEEKS of $17.00 and payment in 14 WEEKS of $0 (1)

Payment in 5 WEEKS of $14.40 and payment in 14 WEEKS of $4.00 (2)

Payment in 5 WEEKS of $10.80 and payment in 14 WEEKS of $8.00 (3)

Payment in 5 WEEKS of $7.20 and payment in 14 WEEKS of $12.00 (4)

Payment in 5 WEEKS of $3.60 and payment in 14 WEEKS of $16.00 (5)

Payment in 5 WEEKS of $0 and payment in 14 WEEKS of $20.00 (6)

Q: Please choose one of the following options of payment in 5 WEEKS from today and payment in 14 WEEKS from today.

Payment in 5 WEEKS of $15.00 and payment in 14 WEEKS of $0 (1)

Payment in 5 WEEKS of $12.00 and payment in 14 WEEKS of $4.00 (2)

Payment in 5 WEEKS of $9.00 and payment in 14 WEEKS of $8.00 (3)

Payment in 5 WEEKS of $6.00 and payment in 14 WEEKS of $12.00 (4)

Payment in 5 WEEKS of $3.00 and payment in 14 WEEKS of $16.00 (5)

Payment in 5 WEEKS of $0 and payment in 14 WEEKS of $20.00 (6)

Q: Please choose one of the following options of payment in 5 WEEKS from today and payment in 14 WEEKS from today.

Payment in 5 WEEKS of $12.00 and payment in 14 WEEKS of $0 (1)

Payment in 5 WEEKS of $9.60 and payment in 14 WEEKS of $4.00 (2)

Payment in 5 WEEKS of $7.20 and payment in 14 WEEKS of $8.00 (3)

Payment in 5 WEEKS of $4.80 and payment in 14 WEEKS of $12.00 (4)

Payment in 5 WEEKS of $2.40 and payment in 14 WEEKS of $16.00 (5)

Payment in 5 WEEKS of $0 and payment in 14 WEEKS of $20.00 (6)

Q: Please choose one of the following options of payment in 5 WEEKS from today and payment in 14 WEEKS from today.

Payment in 5 WEEKS of $9.00 and payment in 14 WEEKS of $0 (1)

Payment in 5 WEEKS of $7.20 and payment in 14 WEEKS of $4.00 (2)

Payment in 5 WEEKS of $5.40 and payment in 14 WEEKS of $8.00 (3)

Payment in 5 WEEKS of $3.60 and payment in 14 WEEKS of $12.00 (4)

Payment in 5 WEEKS of $1.80 and payment in 14 WEEKS of $16.00 (5)

Payment in 5 WEEKS of $0 and payment in 14 WEEKS of $20.00 (6)

5.4. Reciprocity

We will raffle an additional two $100 Amazon vouchers among all respondents that have completed the survey. The ultimate value of the voucher depends on your decision on the following: If you win a voucher, you can decide to increase the value of the second voucher that another person has won. You can give any amount between 0 and 100 dollars by which the value of your voucher will be decreased. Each dollar that you decide to give to the other individual will be doubled. This means that if you decide to give, say, $25 (randomize Contr1 ={25, 50, 75, 100}), the other person will receive $150 and you will receive $75. Likewise, if the other person decides to give, say, $50 (randomize Contr2 ={25, 50, 75, 100}), you will receive $200 and they will receive $50.

Q9.5 Now suppose you knew how much the other winner of the voucher was going to contribute. Please indicate how much you would like to give if the other winner of the voucher gives the following amount? Remember that any amount that you decide to give to the other winner is doubled.

- 0
- 25
- 50
- 75
- 100

5.5. Inequality Aversion

"We will raffle two Amazon gift cards among all respondents that have completed the survey. Just like people's wealth in the real world, the values of these gift cards may vary.

Suppose you are one of the winners and the initial value of your gift card is X=$25/50/100. You will have the possibility to increase or decrease the value of both gift cards
Please indicate how much you would like to either take from or give to the other winner if the initial value of the gift card of the other winner is as follows: (for each of these ask how much give or take. Note that max for give is value of own gift card. Max for take is value of other gift card)

You: X Other: 5
You: X Other: 15
You: X Other: 25
You: X Other: 50
You: X Other: 85
You: X Other: 95
You: X Other: 100"

5.6. Fairness and Beliefs

How strongly do you agree or disagree with the following statements. [1 "strongly disagree" to 5 "strongly agree"]

a. "Future generations should not bear the costs resulting from behavior they are not responsible for."
b. "Future generations should have a better life than their parents' generation"

c. "Those who have contributed more to a problem should bear a larger share of the costs."
d. "Those who are richer should pay more than those who are richer to solve a common problem."
e. "People should help more with solving a problem if others are helping, too"
f. "We do not need to worry about most problems that people discuss nowadays because nature will take care of them."
g. "Technology can and will solve many of today's problems."

6. Waterpipe problem

Now we would like you to consider the following scenario related to water supply issues in your region.

Suppose that the water pipe system in your region is deteriorating. Upgrades and repairs seem vital to secure the supply of fresh water to households.

Engineers have determined that either of the following repair plans will work, although the required timing of household contributions is different.

Please let us know which of the following two options you prefer:

[Randomize order of options]
Option 1

Year	2020	2021	2022	2023	2024
Monthly household contributions	$50	$50	$50	$50	$50

Option 2

Year	2020	2021	2022	2023	2024
Monthly household contributions	$20	$20	$20	$95	$95

7. Policy Views

7.1. Importance

Now, we are going to ask you some questions about your view on public policy. People differ greatly on the answers to these questions. There are no wrong or right answers, and we appreciate knowing your own views.

Please rank order the following problems according to their importance:

Reducing inequality
Reducing immigration
Preventing terrorism
Limiting climate change
Reducing the national debt

7.2. Global warming, climate concern, and consequences

Do you think that global warming is happening?

- ❍ Yes (1)
- ❍ No (2)

How sure are you that global warming is happening?

- ❍ Extremely sure that it is happening (1)
- ❍ Quite sure that it is happening (2)
- ❍ Somewhat sure that it is happening (4)
- ❍ Not at all sure that it is happening (5)

How worried are you about global warming?

- ❍ Extremely worried (1)
- ❍ Very worried (2)
- ❍ Somewhat worried (3)
- ❍ Not worried at all (4)

How much do you think global warming will harm:

	A great deal (1)	A moderate amount (2)	Only a little (6)	Not at all (7)	Don't know (8)
You personally (1)	❍	❍	❍	❍	❍
Your family (2)	❍	❍	❍	❍	❍
Your community (3)	❍	❍	❍	❍	❍
People in the United States (4)	❍	❍	❍	❍	❍
People in other modern industrialized countries (5)	❍	❍	❍	❍	❍
People in developing countries (6)	❍	❍	❍	❍	❍
Future generations (7)	❍	❍	❍	❍	❍
Plant and animal species (8)	❍	❍	❍	❍	❍

When do you think climate change will harm people in the United States?

- ❍ Global warming is already harming people in the United States
- ❍ Within the next few years (1)
- ❍ Within the next decade (2)
- ❍ Within the next 50 years (3)
- ❍ Within the next 100 years (4)
- ❍ Global warming will never harm people in the United States (5)

If global warming is happening, do you think it is:

- ❍ Caused mostly by human activities (1)
- ❍ Caused mostly by natural changes in the environment (2)
- ❍ None of the above because global warming is not happening (4)

Which of the following statements best describes your view on human actions to reduce global warming?

- ❍ Humans can reduce global warming, and we are going to do so successfully (1)
- ❍ Humans could reduce global warming, but it is unclear at this point whether we will do what is needed (2)
- ❍ Humans could reduce global warming, but people are not willing to change their behavior, so we are not going to (3)
- ❍ Humans can't reduce global warming, even if it is happening (4)
- ❍ Global warming is not happening (5)

7.3. Climate policy responses

[Adaptation first for 50% randomly selected]
Experts have developed different approaches to addressing climate change.
Some emphasize investments in adjusting to climate change. This is called adaptation and includes developing new technology to cope with higher temperatures, building dams, improving disaster resilience of housing, etc.
Some emphasize investments in preventing climate change. This is called mitigation and includes reducing greenhouse gas emissions and carbon harvesting that would remove greenhouse gases from the atmosphere.

[Adaptation second for 50% randomly selected]
Experts have developed different approaches to addressing climate change.
Some emphasize investments in adjusting to climate change. This is called mitigation and includes reducing greenhouse gas emissions and carbon harvesting that would remove greenhouse gases from the atmosphere.
Some emphasize investments in adjusting to climate change. This is called adaptation and includes developing new technology to cope with higher temperatures, building dams, improving disaster resilience of housing, etc. Some emphasize investments in preventing climate change.

Which of these approaches do you like better?
[Reverse polarity randomly]
Mostly adaptation (1), more adaptation (2), equal adaptation and mitigation (3), more mitigation (4), mostly mitigation (5).
Mostly mitigation (1), more mitigation (2), equal mitigation and adaptation (3), more adaptation (4), mostly adaptation (5).

8. Climate action consequences experiment

If the United States [and other major economies] implement[s] policies to address climate change, which of the following statements below do you think are true? Will this …
[Randomly draw: on its own / in cooperation with other countries], it will... [RANDOMIZED ORDER]

- … provide better life for children and grand children
- …help with distributing the costs of climate change more fairly
- …save many plant and animal species from extinction
- …improve people's health

- …lead to more government regulation
- …cause energy prices to rise
- …cost jobs and harm the economy

9. Party Identification

Q10.1 Is there a particular party you feel closer to than all the other parties?

- Yes
- No

Q10.2 Which one?

- Republican
- Democrat
- Other (OPEN TEXTBOX)

[Will be tailored to party systems in different countries: France, Germany, United States, United Kingdom]

10. Left-right self-placement

Q11 In politics people sometimes talk of "left" and "right". Where would you place yourself on this scale, where 0 means the left and 10 means the right?

- ❍ 0 left (1)
- ❍ 1 (2)
- ❍ 2 (3)
- ❍ 3 (4)
- ❍ 4 (5)
- ❍ 5 (6)
- ❍ 6 (7)
- ❍ 7 (8)
- ❍ 8 (9)
- ❍ 9 (10)
- ❍ 10 right (11)

11. Political Knowledge

Q12.1 Next is a question to help us see how much information about politics gets out to the public. Please answer the question on your own, without asking anyone or looking up the answers.
Many people don't know the answers to this question, but we'd be grateful if you would please answer it, even if you're not sure what the right answer is. You will have 30 seconds to answer the question after it appears on the screen. After 30 seconds, the screen will automatically go on to the next question. If you finish answering a question before 30 seconds is up, you can go to the next question by clicking on the "Next" button.

[This question will be tailored to each country (France, Germany, United Kingdom, United States)]

Secretary of Defense
Who is currently the Secretary of Defense of the United States?

[Show four options, one of them being the correct answer]

12. Age
In what year were you born?

13. State of Residence/Zip Code
In which State do you live? Please choose a State

14. Gender
Are you male of female?
- Male
- Female

15. Race
What racial or ethnic group best describes you?
- White
- Black or African American
- Hispanic or Latino
- Asian or Asian-American
- Native American
- Middle Eastern
- Mixed Race
- Other

[This question may not be asked in some countries, e.g., Germany]

16. Education
What is the highest level of education you have completed?
- No schooling completed, or less than 1 year
- Nursery, kindergarten, and elementary (grades 1-8)
- High school (grades 9-12, no degree)
- High school graduate (or equivalent)
- Some college (1-4 years, no degree)
- Associate's degree (including occupational or academic degrees)
- Bachelor's degree (BA, BS, AB, etc)
- Master's degree (MA, MS, MENG, MSW, etc)
- Professional school degree (MD, DDC, JD, etc)
- Doctorate degree (PhD, EdD, etc)

[This question will be tailored to each country (France, Germany, United Kingdom, United States]

17. Relationship Status
What is your marital status?
- Married, living with spouse
- Separated
- Divorced
- Widowed
- Single, never married
- Domestic partnership

18. Occupational Status

Which of these descriptions best describes your situation (in the last seven days)?

- ❍ In paid work (or away temporarily) (employee, self-employed, working for your family business)
- ❍ In education, (not paid for by employer) even if on vacation
- ❍ Unemployed and actively looking for a job
- ❍ Unemployed, actively searching for a job (4)
- ❍ Unemployed, wanting a job but not actively looking for a job
- ❍ Permanently sick or disabled
- ❍ Retired (7)
- ❍ In community service
- ❍ In military service
- ❍ Doing housework, looking after children or other persons
- ❍ Don't know
- ❍ None of these

In what industry/sector is your current employment (or former employment if not currently employed)? Please give an exact description of the industry/sector (e.g. not industry, but automobile industry; not trade, but retail trade; not public service, but hospital).

19. Income

Thinking back over the last year, what was your family's annual income?

- Less than $10,000
- $10,000 - $19,999
- $20,000 - $29,999
- $30,000 - $39,999
- $40,000 - $49,999
- $50,000 - $59,999
- $60,000 - $69,999
- $70,000 - $79,999
- $80,000 - $89,999
- $90,000 - $99,999
- $100,000 - $119,999
- $120,000 - $149,999
- $150,000 or more (what was your family's annual income last year? [faminc2])
- Prefer not to say

[If previous answer == $150,000 or more] What was your family's income last year?

- $150,000 - $199,999
- $200,000 – $249,000
- $250,000 - $349,000
- $350,000 – $499,999
- $500,000 or more

20. Children

How many children have you had? Please count all that were born at any time (including any you had from a previous marriage).

0,…,20

21. Vote choice last election

In the presidential election in 2016, for whom did you vote?

- Hillary Clinton
- Donald Trump
- Other (Please specify)
- Did not vote

22. Quality Control

Please rate this questionnaire overall. On a scale of 1 to 9 where 1 means the questionnaire was 'Poor' and 9 means the questionnaire was 'Excellent.'

- 1 (Poor)
- 2
- 3
- 4
- 5
- 6
- 7
- 8
- 9 (Excellent)

Comments