

International Attitudes Toward Global Policies

Supplementary Material

Adrien Fabre*, Thomas Douenne[†] and Linus Mattauch[‡]

October 10, 2023

Contents

Contents	1
Main figures	3
A Literature review	11
A.1 Attitudes and perceptions	11
A.1.1 Population attitudes on global policies	11
A.1.2 Population attitudes on climate burden sharing	12
A.1.3 Population attitudes on foreign aid	14
A.1.4 Population attitudes on rich tax	15
A.1.5 Population attitudes on ethical norms	16
A.1.6 Second-order beliefs	17
A.2 Proposals and analyses of global policy-making	18
A.2.1 Global carbon pricing	18
A.2.2 Climate burden sharing	19
A.2.3 Global redistribution	24
A.2.4 Basic income	25
A.2.5 Global democracy	26
B Raw results	27

*CNRS, CIRED. E-mail: adrien.fabre@cnrs.fr (corresponding author).

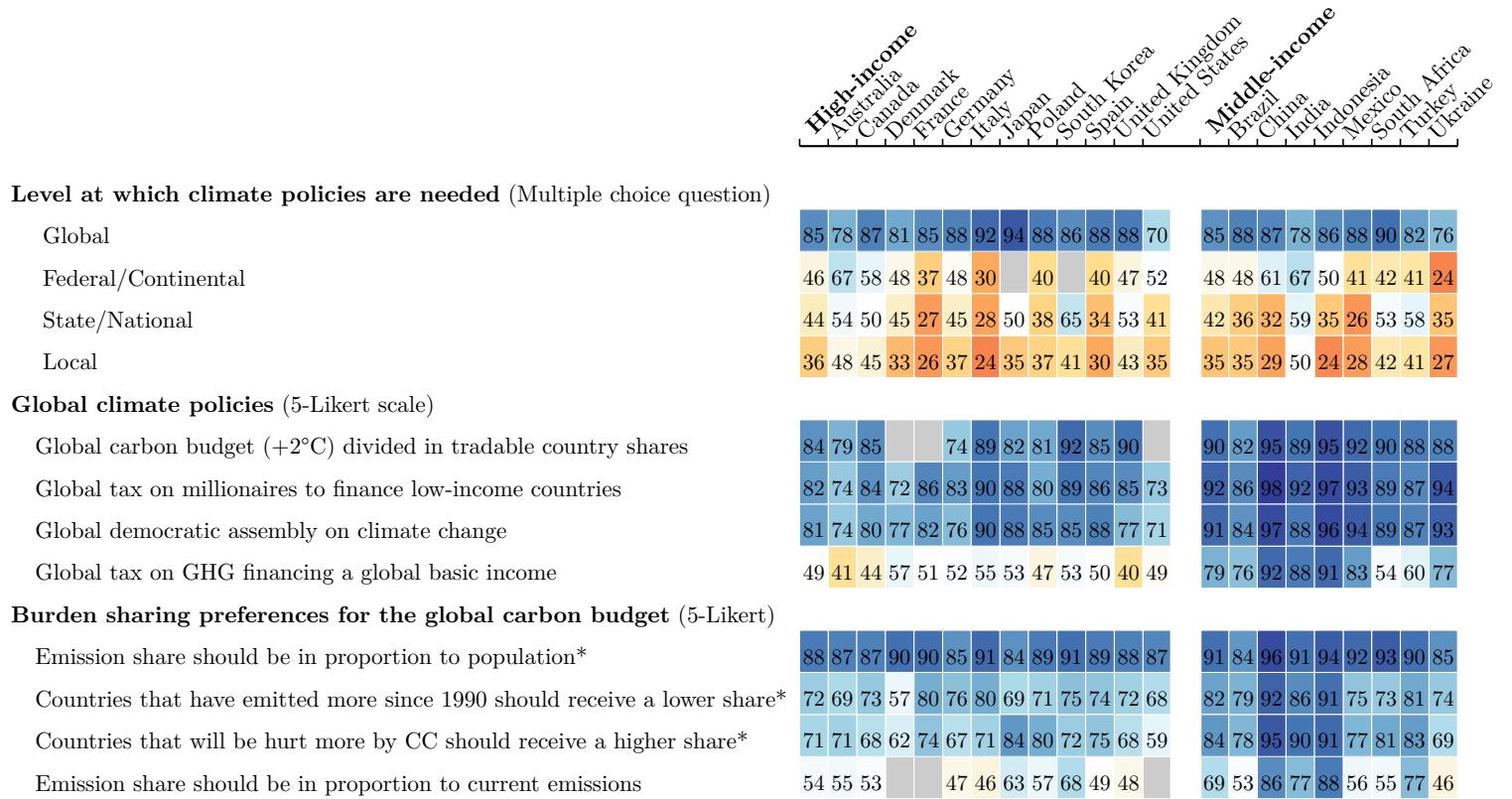
[†]University of Amsterdam

[‡]Technical University Berlin, Potsdam Institute for Climate Impact Research – Member of the Leibniz Association and University of Oxford

C Questionnaire of the global survey (section on global policies)	50
D Questionnaire of the complementary surveys	53
E Net gains from the Global Climate Scheme	76
F Determinants of support	80
G Representativeness of the surveys	81
H Attrition analysis	83
Bibliography	86
List of Tables	97
List of Figures	97

Main figures

Figure 1: Relative support for global climate policies. (Reproduced from [Dechezleprêtre et al. \(2022\)](#), Figure A21.)



Note 1: The numbers represent the share of *Somewhat* or *Strongly support* among non-*indifferent* answers (in percent, $n = 40,680$). The color blue denotes a relative majority. See Figure A3 for the absolute support. (Questions A-I).

Note 2: *In Denmark, France and the U.S., the questions with an asterisk were asked differently, cf. Question F.

Figure 2: Relative support for various global policies (percentage of *somewhat* or *strong support*, after excluding *indifferent* answers). (Questions 44 and 45; See Figure A25 for the absolute support.)

	United States	Europe	France	Germany	Spain	United Kingdom
Payments from high-income countries to compensate low-income countries for climate damages	55	71	72	70	79	70
High-income countries funding renewable energy in low-income countries	68	82	82	82	85	81
High-income countries contributing \$100 billion per year to help low-income countries adapt to climate change	60	76	77	79	79	71
Cancellation of low-income countries' public debt	46	53	53	43	62	61
Democratise international institutions (UN, IMF) by making a country's voting right proportional to its population	58	71	69	69	78	72
Removing tariffs on imports from low-income countries	62	73	58	73	80	83
A minimum wage in all countries at 50% of local median wage	63	80	80	78	81	83
Fight tax evasion by creating a global financial register to record ownership of all assets	62	87	90	86	91	87
A maximum wealth limit of \$10 billion (US) / €100 million (Eu) for each human	46	62	58	62	65	67
National tax on millionaires funding public services	73	85	81	87	89	88
Global tax on millionaires funding low-income countries	69	84	84	84	87	83

Figure 3: Support for the GCS, NR and the combination of GCS, NR and C. (Questions 35, 36, 20, 22 and 26).

	United States	Europe	France	Germany	Spain	United Kingdom
Global climate scheme (GCS)	54	76	80	71	81	74
National redistribution scheme (NR)	56	73	77	66	79	75
National climate policy + GCS + NR	52	74	79	69	81	70

Table 1: Number of supported policies in the list experiment depending on the presence of the Global Climate Scheme (GCS) in the list.

	Number of supported policies		
	All	US	Europe
List contains: GCS	0.624*** (0.028)	0.524*** (0.041)	0.724*** (0.036)
<i>Support for GCS</i>	0.65	0.542	0.757
<i>Social desirability bias</i>	-0.026	-0.018	-0.033
<i>80% C.I. for the bias</i>	[-0.06; 0.01]	[-0.07; 0.01]	[-0.08; 0.01]
Constant	1.317	1.147	1.486
Observations	6,000	3,000	3,000
R ²	0.089	0.065	0.125

Note:

*p<0.1; **p<0.05; ***p<0.01

Table 2: Preference for a progressive platform depending on whether it includes the GCS or not. (Question 28)

	Prefers the Progressive platform					
	All	United States	France	Germany	UK	Spain
GCS in Progressive platform	0.028* (0.014)	0.029 (0.022)	0.112*** (0.041)	0.015 (0.033)	0.008 (0.040)	-0.015 (0.038)
Constant	0.623	0.604	0.55	0.7	0.551	0.775
Observations	5,202	2,619	605	813	661	504
R ²	0.001	0.001	0.013	0.0003	0.0001	0.0003

Note: The 14% of *None of them* answers have been excluded from the regression samples. GCS has no significant influence on them. *p < 0.1; **p < 0.05; ***p < 0.01.

Figure 4: Percent of global wealth tax that should finance low-income countries (*mean*). (Question 37)

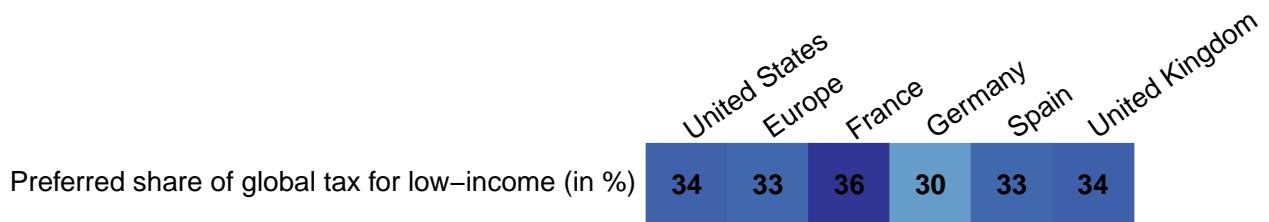


Figure 5: Attitudes regarding the evolution of [own country] foreign aid. (Question 46)

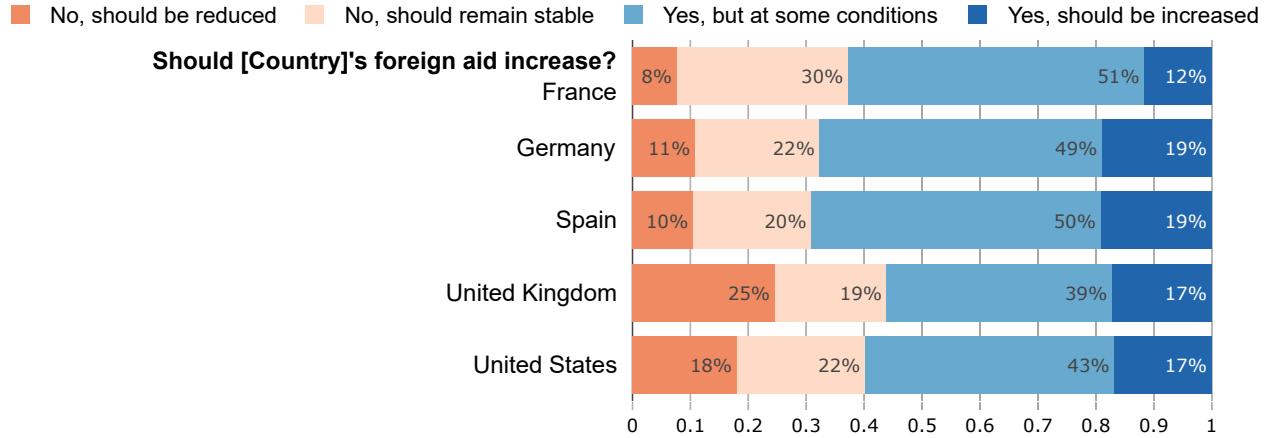


Figure 6: Conditions at which foreign aid should be increased (in percent). [Asked to those who wish an increase of foreign aid at some conditions.] (Question 47)

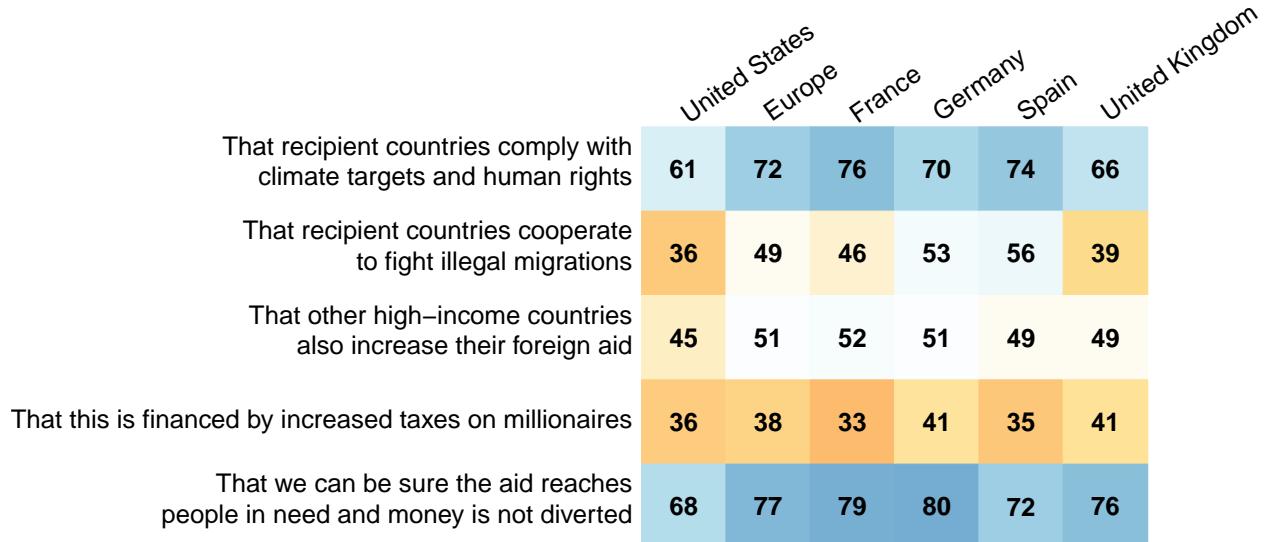
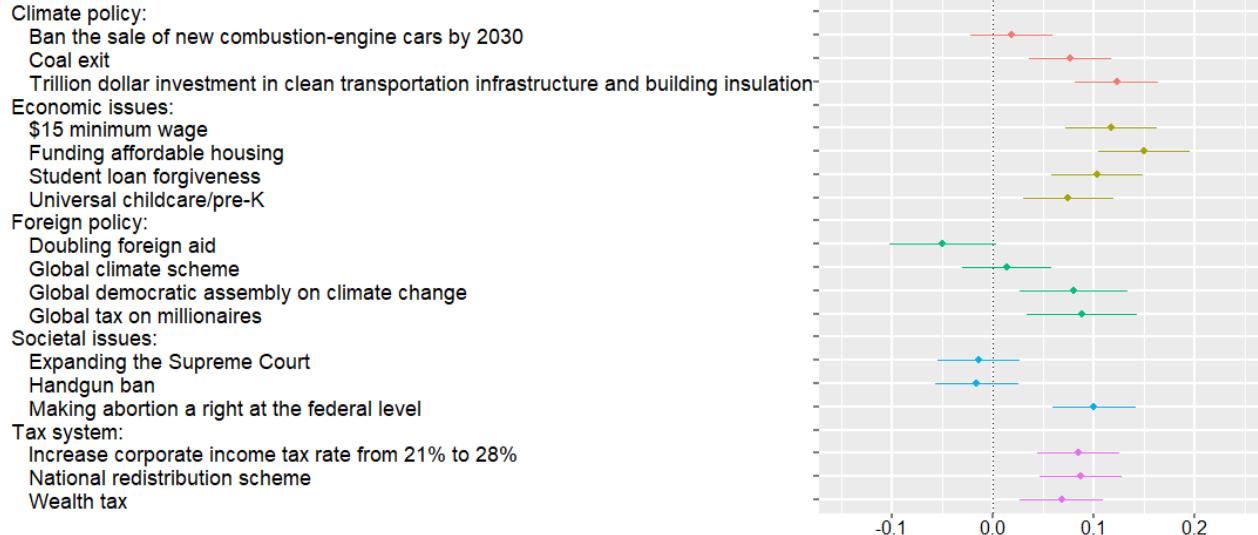


Figure 7: Reasons why foreign aid should not be increased (in percent). [Asked to those who wish a decrease or stability of foreign aid.] (Question 48)

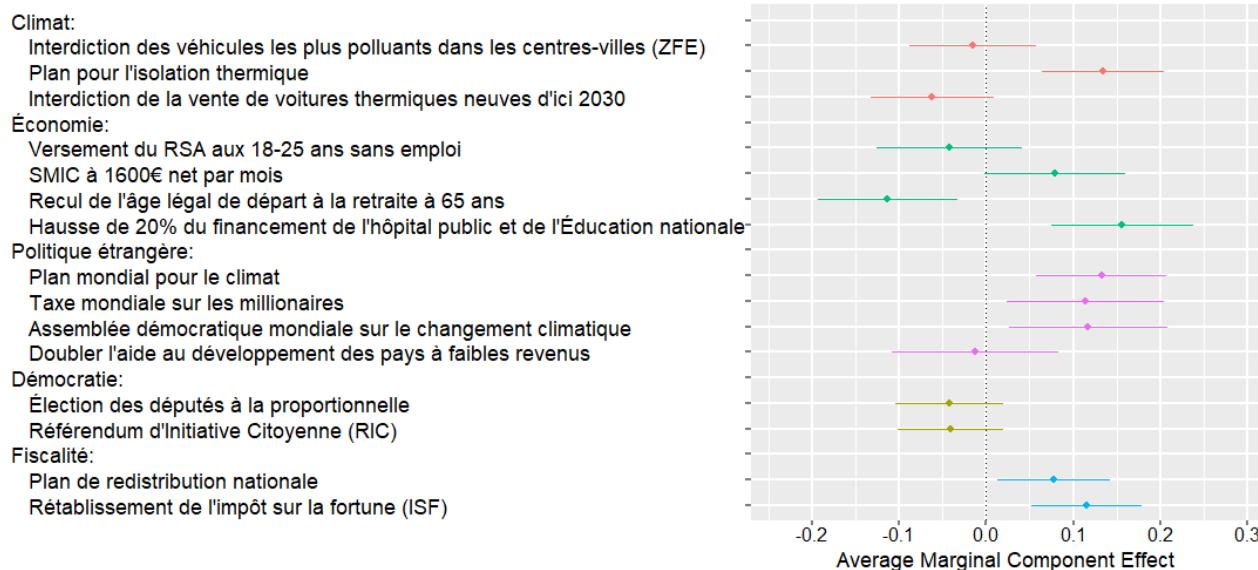


Figure 8: Effects of the presence of a policy (rather than none from this domain) in a random platform on the likelihood that it is preferred to another random platform. (See English translations in Figure A8; Question 29)

(a) U.S. (Asked only to non-Republicans)



(b) France



(c) Germany

Klimaschutz:

- Verpflichtende Solaranlagen auf allen geeigneten Dächern
- Plan zur Wärmedämmung
- Verbot des Verkaufs von Neuwagen mit Verbrennungsmotor bis 2030

Wirtschaftspolitik:

- Erhöhung des Regelsatzes des Bürgergelds auf bis zu 600€ pro Monat
- Bürgerversicherung als gerechtere Sozialversicherung
- Staatschuldenquote auf unter 60% reduzieren
- Investitionen für Gigabit-Netzwerke bereitstellen

Außenpolitik:

- Globales Klimaprogramm
- Globale Steuer auf Millionäre
- Globale demokratische Versammlung zum Klimawandel
- Verdoppelung der Mittel für die Entwicklungshilfe in einkommensschwachen Ländern

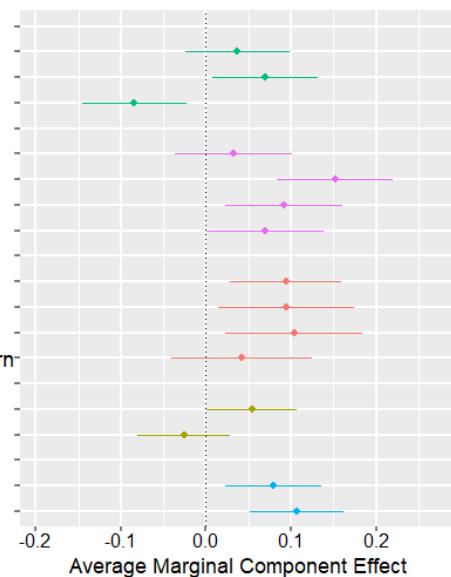
Gesellschaft:

- Volksscheid auf Bundesebene

- Cannabis-Legalisierung

Steuerpolitik:

- Nationales Umverteilungsprogramm
- Die Vermögenssteuer wieder in Kraft setzen



(d) Spain

Política climática:

- 100% de electricidad producida con energías renovables en 2040
- Plan de aislamiento térmico
- Prohibir la venta de coches nuevos con motor de combustión para 2030

Asuntos económicos:

- Más necesidades sanitarias dentro del sistema público (cuidado dental, gafas, salud mental)
- Ingreso Básico Garantizado de 600€ al mes
- Jornada laboral de 34 horas semanales
- Inversión en el sistema educativo y universalización de la educación preescolar

Política exterior:

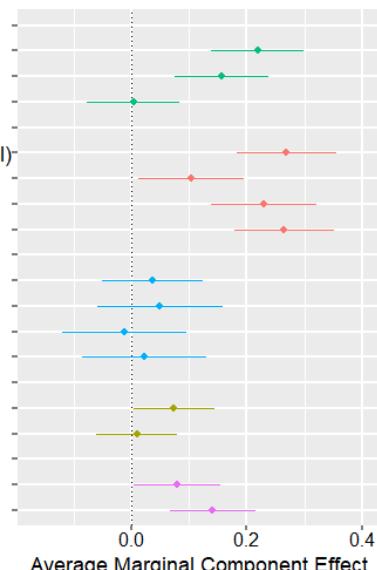
- Plan climático global
- Impuesto mundial a los millonarios
- Asamblea democrática mundial sobre el cambio climático
- Duplicar la ayuda exterior a los países de renta baja

Asuntos sociales:

- Reformar la ley electoral para hacer el Senado más proporcional
- Abolición de la prostitución

Sistema fiscal:

- Plan de redistribución nacional
- Aumentar los impuestos sobre las rentas superiores a 100.000 euros anuales



(e) UK

Climate policy:

- Ban of most polluting vehicles in city centers (low-emission zones)
- Thermal insulation plan
- Ban the sale of new combustion-engine cars by 2030

Economic issues:

- £150 billion to upgrade schools, hospitals, care homes and council houses
- Real Living Wage of £11 per hour for all workers aged 16 and over
- Reduce the average full-time weekly working hours to 32
- Re-establish neighbourhood policing and recruit 2,000 more frontline officers

Foreign policy:

- Global climate scheme
- Global tax on millionaires
- Global democratic assembly on climate change
- Doubling foreign aid

Societal issues:

- Strict enforcement of immigration and border legislation
- Legalization of cannabis

Tax system:

- National redistribution scheme
- Wealth tax

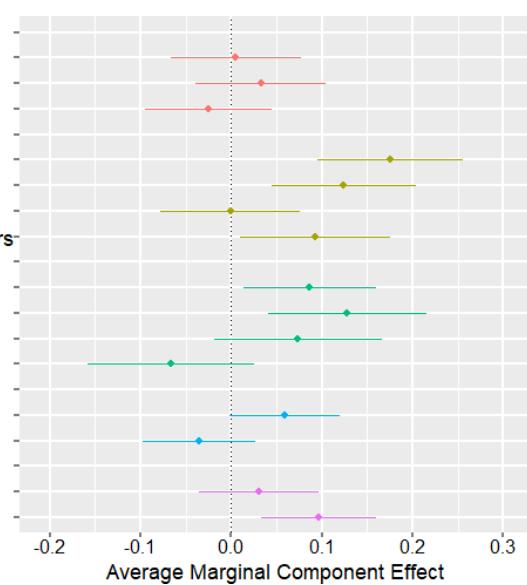


Figure 9: Influence of the GCS on preferred platform:

Preference for a random platform A that contains the Global Climate Scheme rather than a platform B that does not (in percent). (Question 30; in the U.S., asked only to non-Republicans.)

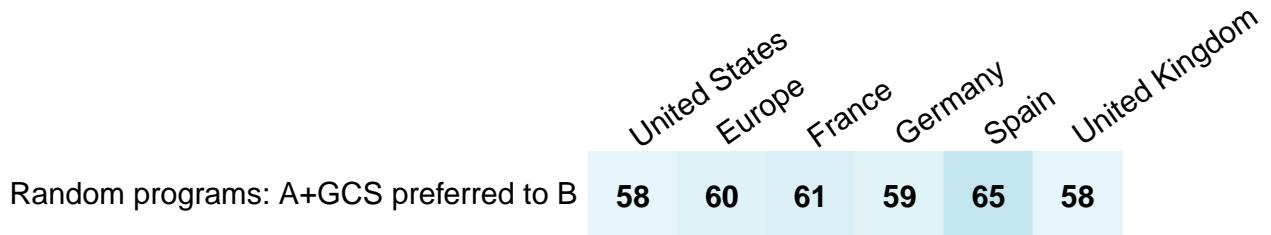
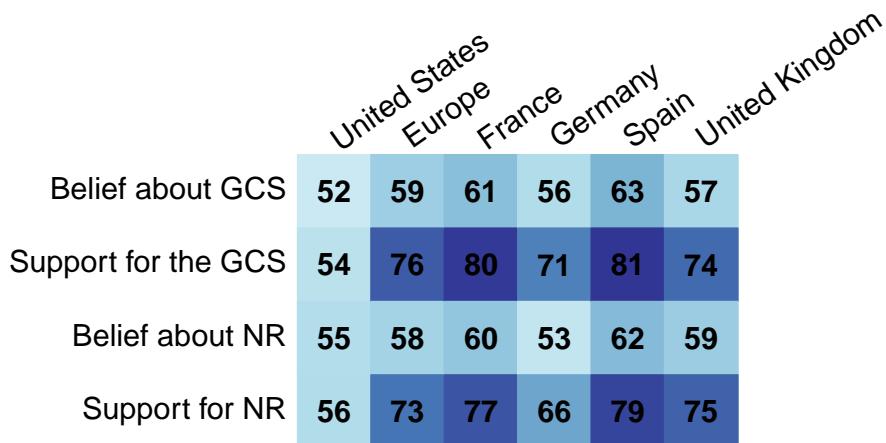


Figure 10: Beliefs regarding the support for the GCS and NR. (Questions 21 and 23)



A Literature review

A.1 Attitudes and perceptions

A.1.1 Population attitudes on global policies

[Carattini et al. \(2019\)](#) test the support for six variants of a global carbon tax on samples in five countries, representative along gender and age. For a given variant, the sample size is about 167 respondents per country. They find over 80% support for any variant in India, between 50% and 65% in Australia, the UK and South Africa, and 43% to 59% in the U.S., depending on the variant. Notably, the support for a global carbon tax funding an equal dividend for each human is close to 50% in high-income countries (e.g., at 44% in the U.S.), consistently with our results from the *Global* survey (see Figure 1). This is another piece of evidence that the support is lower for a tax that would “only” reduce CO₂ emissions than for a quota that would unambiguously achieve the climate target. Using a conjoint analysis in the U.S. and Germany, [Beiser-McGrath & Bernauer \(2019b\)](#) find that the support for a carbon tax increases by up to 50% if it applies to all industrialized countries rather than exclusively to one’s own country.

In surveys conducted in Brazil, Germany, Japan, the UK and the U.S., [Ghassim \(2020\)](#) finds support ranging from 55% to 74% for “a global democracy including both a global government and a global parliament, directly elected by the world population, to recommend and implement policies on global issues”. Through an experiment, he also finds that, in countries where the government stems from a coalition, voting shares would shift by 8 (Brazil) to 12 p.p. (Germany) from parties who are said to oppose global democracy to parties that supposedly support it. For instance, when Germans respondents were told that (only) the Greens and the Left support global democracy, these parties gained respectively 9 and 3 p.p. in vote intentions, while the SPD and the CDU-CSU each lost 6 p.p. [Ghassim \(2020\)](#) also presents survey results showing strong majorities in favor of the direct election of one’s country’s UN representative in all 18 surveyed countries. Similarly, in each of 10 countries, there are clear majorities in favor of “a new supranational entity [taking] enforceable global decisions in order to solve global risks” ([Global Challenges Foundation 2018](#)). Remarkably, already in 1946, 54% of Americans agreed (while 24% disagreed) that “the UN should be strengthened to make it a world government with the power to control the armed forces of all nations” ([Gallup 1946](#)). Furthermore, in surveys conducted in Argentina, China, India, Russia, Spain, and the U.S., [Ghassim et al.](#)

(2022) find majority support for UN reforms that would make United Nations' decisions binding, give veto powers to a few other major countries at the Security Council, or complement the highest body of the UN with a chamber of directly elected representatives.

Relatedly, Meiland et al. (2023) find that both Americans and French people prefer an international settlement of climate justice, even if it encroaches on sovereignty. In a 2013 survey conducted in China, Germany, and the U.S., Schleich et al. (2016) show that over three-quarter of people think that international climate agreements reached so far are not successful and that future agreements are important. In Finland, Sivonen (2022) finds that that support for a carbon tax is higher if implemented at the global level (54%) rather than at the national level (40%).

The results from these specific questions are in line with the answers to more general questions. In each of 36 countries, ISSP (2010) find near consensus that “for environmental problems, there should be international agreements that [their country] and other countries should be made to follow” (overall, 82% agree and 4% disagree). In each of 29 countries, ISSP (2019) uncover near consensus that “Present economic differences between rich and poor countries are too large” (overall, 78% agree and 5% disagree). Fehr et al. (2022) find that 90% of Germans want some degree of global redistribution.

A.1.2 Population attitudes on climate burden sharing

Despite differences in the description of fairness principles, surveys on burden-sharing rules show consistent attitudes. Or at least, their seemingly contradictory results can be made compatible with the following interpretation: Concerning emissions reductions, most people want that every country engage in strong and collective decarbonization efforts, with a global quota converging to climate neutrality in the medium run. Concerning the financial effort, most people support high-emitting countries paying and low-income countries receiving funding. The most supported rules are those perceived as equitable, in particular an equal right to emit per person.

This interpretation helps to understand the apparent differences between articles that approach burden sharing from different angles: cost sharing (in money terms), effort sharing (in terms of emissions reductions), or resource sharing (in terms of rights to emit). Existing papers adopt either the cost sharing or effort sharing approach, which preclude any country from being a net receiver of funds. Also, by focusing on *either* the financial or the decarbonization effort, these surveys miss the other half of the picture, which can explain why some papers find strong support for the ability-to-pay principle while others

find strong support for grandfathering (defined as emissions reductions being the same in every country). The literature follows these approaches to align with the notions used by the UNFCCC. Yet, we argue that the resource sharing approach is preferable for uncovering attitudes, as it unambiguously describes the distributive implications of each rule while achieving an efficient geographical distribution of emissions reductions and explicitly allowing for monetary gains for some countries.

Now, let us summarize the results of the different papers in the light of this clarification. Schleich et al. (2016) find an identical ranking of support for burden-sharing principles in China, Germany, and the U.S.: polluter-pays followed by ability-to-pay, equal emissions per capita, and grandfathering. Note that the authors do not allow for emissions trading in their description of equal *emissions per capita*, which may explain its relatively low support. Yet, the relative support for egalitarianism also depends on how *the other* rules are described. Indeed, Carlsson et al. (2011) find that Swedes prefer that “all countries are allowed to emit an equal amount per capita” rather than options where emissions are reduced based on current or historical emissions, for which it is explicitly stated that high-emitting countries “will continue to emit more than others”. Bechtel & Scheve (2013) find agreement that rich countries should pay more and historical emissions should matter, but that efforts should not be solely borne by wealthy nations. More precisely, their conjoint analysis conducted in France, Germany, the UK, and the U.S. shows that a climate agreement is 15 p.p. more likely to be preferred (to a random alternative) if it includes 160 countries rather than 20, and 5 p.p. less likely to be preferred if “only rich countries pay” compared to other burden-sharing rules: “rich countries pay more than poor”, “countries pay proportional to current emissions” or “countries pay proportional to historical emissions”. Using a choice experiment, Carlsson et al. (2013) find that the least preferred option in China and the U.S. is when low-emitting countries are exempted from any effort. Ability-to-pay is appreciated in both countries and is the preferred option in the U.S., though the preferred option in China is another one that accounts for historical responsibility. In the U.S. and France, Meiland et al. (2023) find that the most favored fairness principle is that “all countries commit to converge to the same average of total emissions per inhabitant, compatible with a controlled climate change”. Furthermore, in each country, 73% disagree with grandfathering defined as “countries which emitted a lot of carbon in the past have a right to continue emitting more than others in the future”. The study by Meiland et al. (2023) contains many other results: for instance, majorities prefer to hold countries accountable for their consumption-based rather than

territorial emissions, and the median choice regarding historical responsibility is to hold a country accountable for its post-1990 emissions (rather than post-1850 or just their current emissions). Finally, in each of 28 (among the largest) countries, [Dabla-Norris et al. \(2023\)](#) find strong majority for “all countries” to the question “Which countries do you think should be paying to reduce carbon emissions?”. When asked to choose between a cost sharing based on *current vs. accumulated historic emissions*, a majority prefers *current emissions* in all countries but China and Saudi Arabia (where the two options are close to equally preferred).

A.1.3 Population attitudes on foreign aid

There is an extensive literature on attitudes towards foreign aid in donor countries. The key findings indicate that most people overestimate the amount of foreign aid and that only a minority wants a cut in foreign aid compared to actual amounts, especially once they become aware of them.

For instance, [PIPA \(2001\)](#) shows that 83% of Americans support a multilateral effort to cut world hunger in half. [PIPA \(2008\)](#) shows that in each of 20 countries, a majority thinks that developed countries “have a moral responsibility to work to reduce hunger and severe poverty in poor countries”, with an average agreement of 81%. In 7 OECD countries, the study finds that at least 75% of respondents are willing to pay for a program to cut hunger in half (at an estimated cost of, e.g., \$50 a year for each American).

[Kaufmann et al. \(2012\)](#) find that perceived aid is overestimated in each of the 24 countries they study, on average by a factor of 7. In most countries, desired aid is larger than perceived aid.¹ They show that individuals in the top income quintile desire aid 0.13 p.p. lower than those in the bottom 40% – which is very close to what we find. By employing a theoretical model and examining correlations between lobbying and actual aid (controlling for desired aid), they argue that the gap between actual and desired aid stems from the political influence of the rich who defend their vested interests. In [Kaufmann et al. \(2012\)](#), the U.S. is an outlier: desired aid is at the other countries’ average (3% of GNI), but as misperceptions are enormous, perceived aid is twice as large as desired aid. Indeed, [Gilens \(2001\)](#) shows that even Americans with high political knowledge misperceive actual aid, and finds that 17% fewer of them want to cut aid when we provide them specific information about the amount of aid. Similarly, [Nair \(2018\)](#) finds that the rela-

¹[Kaufmann et al. \(2012\)](#) offer the best results on desired aid because (as [Hudson & van Heerde \(2012\)](#) criticize), other studies did not take into account misperceptions of actual aid.

tively low support for aid in the U.S. is driven by information on global distribution, as people underestimate their rank by 27 centiles on average and overestimate the global median income by a factor 10.

Hudson & van Heerde (2012) provide a critical review of the literature and show that the strong support for poverty alleviation largely stems from intrinsic altruism. They note that, according to DFID (2009) and PIPA (2001), 47% of British people find that the aid is wasted (mainly due to corruption), while Americans estimate that less than a quarter of the aid reaches those in need, with over half ending up in the hands of corrupt government officials. Despite these perceptions, most people still support aid, suggesting the presence of nonutilitarian motives. Consistent with Henson et al. (2010), Bauhr et al. (2013) find that support for aid is reduced by the perception of corruption in recipient countries. However, this effect is mitigated by the aid-corruption paradox: countries with higher levels of corruption often need more help. Bodenstein & Faust (2017) further show that right-wing Europeans, as well as those who perceive strong corruption in their country, are more likely to agree that recipient countries should “follow certain rules regarding democracy, human rights and governance as a condition for receiving EU development aid.” Using a 2002 Gallup survey and the 2006 World Values Survey, and in line with Bayram (2017), Paxton & Knack (2012) show that the main determinants for wanting more aid are trust, left-wing ideology, interest in politics, and being a woman (all positively associated).

A.1.4 Population attitudes on rich tax

We are not aware of any previous survey on a global wealth tax,² though surveys consistently show strong support for national wealth taxes. In a comprehensive survey conducted in the UK, Rowlingson et al. (2021) show that a wealth tax is the preferred option for raising revenues. Only 8% of respondents state that total net wealth should not be taxed (with little differences between Labour and Conservative voters). The study also finds that the preferred design would be a 1% or 3% tax on net wealth above £1 million. By asking how much taxes per year should a person with a certain income and wealth level pay, Fisman et al. (2017) finds that the average American favors a 0.8% linear tax rate on unspecified wealth up to \$2 million (the highest wealth level tested), and a 3% linear rate on inherited wealth. Through a conjoint analysis conducted in three high-income

²We did not find any using the combination of “survey” or “attitudes” with “wealth tax” or “global wealth tax” in Google Scholar.

countries, Schecht & Tisch (2023) find widespread support for a wealth tax (from 78% in the U.S. to 86% in Germany and the UK), with a preference for an exemption threshold set at \$/€1 million (rather than 500,000 or 2 million) with the tax rate and tax unit having little influence on the preferred design. In 21 OECD countries, the OECD (2019) uncovers strong majority support for higher taxes on the rich to support the poor, with nearly 70% overall agreement and less than 20% disagreement. Isbell (2022) finds similarly high level of support in 34 African countries. In the UK, Patriotic Millionaires (2022) find 69% support (and 7% opposition) for a 1.1% tax on wealth in excess of £10 million. In the U.S., Americans for Tax Fairness (2021) find that 67% to 71% of the respondents support to “raise taxes for those earning more than \$400,000 a year”, “raise the income tax rate for those earning over \$1 million a year by 10 percentage points”, or “apply a 2% tax on an individual’s wealth above \$50 million each year, and 3% on wealth above \$1 billion”.

A.1.5 Population attitudes on ethical norms

Universalism Various studies have examined the concept of global identity (see Reysen & Katzarska-Miller (2018) for a review). In the 2005-2008 wave of the World Values Survey, Bayram (2015) notes that “78% of the participants in 57 countries see themselves as citizens of the world”, though the 2017-2022 wave reveals that more people feel close to their town, region or country than to the world. Enke et al. (2023a) measure universalism at the U.S. district level using donation data, and find that a district’s universalism predicts electoral outcomes better than its income or education level. To measure universalism at the individual level, Enke et al. (2023c) ask American respondents to split \$100 between a random stranger and a random person with the same income but closer to them. They distinguish different facets of universalism, and define *foreign universalism* as the inclination to give to a foreigner rather than a fellow citizen. They find a home bias for most people, which could partly be attributed to concerns about inequality, as the split involves two persons with the same income, with the foreigner most certainly living in a poorer country than the American and thus enjoying a higher social status. That being said, a home bias probably remains even after accounting for concerns about inequality, as 84% of Americans agree that “taking care of problems at home is more important than giving aid to foreign countries” (PIPA 2001). Enke et al. (2023b) also measure universalism and analyze its correlates in 7 countries, and Cappelen et al. (2022) deploy this method in 60 countries. In a lab experiment with students in the U.S., Cherry et al. (2017) show that a substantial share of people prefer policies detrimental to them due to their

egalitarian worldview. Waytz et al. (2019) show that left-leaning people exhibit a wider “moral circle”. Jaeger & Wilks (2021) find that judgments of moral concern are equally well explained by characteristics of the judge and the evaluated target.

Free-riding Despite the long-standing explanation of the lack of climate action as a result of free-riding, surveys consistently show that people support climate mitigation action in their own country, even in the absence of such action in other countries. Bernauer & Gampfer (2015) show this for Americans and Indians, who both overestimate their country’s emissions at one third of the global total. Beiser-McGrath & Bernauer (2019a) show this in the U.S. and China using an experimental design. McEvoy & Cherry (2016) show that Americans mostly invoke leadership and morality to justify unilateral climate action. Using a range of methods, Aklin & Mildenberger (2020) show that the empirical evidence for free-riding is not compelling, and that climate inaction can be equally well explained by distributive conflicts. Finally, review of the literature by McGrath & Bernauer (2017) shows that climate attitudes are largely nonreciprocal, and primarily driven by values and perceptions of the policies, rather than by considerations of what other countries do.

A.1.6 Second-order beliefs

Allport (1924) introduced the concept of pluralistic ignorance: a shared misperception concerning others’ beliefs. The concept became notorious when O’Gorman (1975) showed that, towards the end of the civil rights movement, 47% of Americans believed that a majority of white people supported segregation, while only 18% did so. PIPA (2001) has shown that while 75% of Americans are willing to contribute \$50 annually to halve world hunger (the cost of the program), only 32% believed that the majority would share this willingness. Pluralistic ignorance regarding climate-friendly norms in the United States has been documented by Andre et al. (2022), who further show that correcting the misperceptions would be effective to enhance pro-climate behaviors. Relatedly, Sparkman et al. (2022) show that Americans underestimate the support for climate policies by nearly half, while Drews et al. (2022) document pluralistic ignorance of carbon tax support in Spain. Additionally, Geiger & Swim (2016) show that pluralistic ignorance regarding concern for climate change leads people to self-silence, resulting in reduced discussions on the topic.

A.2 Proposals and analyses of global policy-making

A.2.1 Global carbon pricing

Global carbon pricing is widely regarded by economists as the benchmark climate policy, as it would efficiently correct the carbon emissions externality. For instance, Hoel (1991) shows that an international carbon tax can be designed to simultaneously achieve efficiency and accommodate any distributional objective. Concerning the distributional objective, Grubb (1990), Agarwal & Narain (1991) and Bertram (1992) were the first to advocate for an equal right to emit for each human. As Grubb (1990) states it: “by far the best combination of long term effectiveness, feasibility, equity, and simplicity, is obtained from a system based upon tradable permits for carbon emissions which are allocated on an adult per capita basis”.³ Support for such solution has been renewed ever since (Baer et al. 2000; Blanchard & Tirole 2021; Jamieson 2001; Rajan 2021).

While many endorse the egalitarian allocation of emissions permits, economists also considered this outcome as politically unfeasible. Thus, to preserve the current level of inequalities and to preclude transfers between countries, they adjusted their (integrated assessment) models by assigning more weight to the interest of rich countries (Stanton 2011).

Gollier & Tirole (2015) synthesize the distributional decision with a *generosity* parameter which would allocate emissions permit to countries in proportion to their population if set to one, in proportion to their emissions (on the start date of the policy) if set to zero, and as a mixture of the egalitarian and grandfathering rules if set in between. Using a similar formula in the context of a tax, Cramton et al. (2015) (summarized in MacKay et al. 2015) propose that countries with emissions per capita around the average fix the generosity parameter, so that it is strategically chosen to maximize the tax rate, and to fix the tax rate at the minimum price proposed by participating countries. Negotiations would exclude countries with low ambition beforehand; and the treaty would impose trade sanctions on non-participating countries. van den Bergh et al. (2020) propose a “dual-track transition to global carbon pricing”: an expanding climate club that would integrate existing and new emissions trading systems, and a reorientation of UNFCCC negotiations towards a global carbon price and burden-sharing rules. The IMF (2019) also supports global carbon pricing or, as a first step, a carbon price floor. They propose either differentiated prices among countries or international transfers, and estimate that

³By “adult per capita”, Grubb (1990) means that permits would be allocated equally among adults.

a price of \$75/tCO₂ in 2030 would be compatible with a 2°C trajectory.

Other authors have put forth more radical proposals. For instance, Weitzman (2017) envisions a World Climate Assembly with proportional representation at the global scale, so that the median (human) voter would choose the carbon price level. To finance an adaptation fund, Chancel & Piketty (2015) propose a global *progressive* carbon tax (or a progressive tax on air tickets as a first step), so that rich people (who are high emitters) contribute more to the public good. Fleurbaey & Zuber (2013) highlight that, given that current emitters are probably richer than future victims of climate change damages, climate policies deserve a *negative* discount rate. In other words, we cannot dissociate the climate issue from global inequalities, and an ethical response to this issue requires global redistribution.

A.2.2 Climate burden sharing

The literature has discussed different burden-sharing principles. While there is no agreement on their definitions as different approaches are used (cost sharing, effort sharing, or resource sharing, see Section A.1.2), we describe here the burden-sharing principles consistently using the resource sharing approach (i.e., allocating emissions rights). For other papers that define or compare different burden-sharing principles, see Leimbach & Giannousakis (2019); Vaillancourt & Waaub (2004); Zhou & Wang (2016).

Equal per capita. The simplest principle is perhaps to allocate each year's global carbon quota based on an equal right to emit per capita, or an equal right to emit for each adult. Implementing this principle would result in large transfers from high-emitting to low-emitting countries.

Grandfathering. In contrast, *grandfathering* entails allocating emissions rights in proportion to current emissions. From the perspective of allocating carbon pricing revenues between countries, grandfathering amounts to each country retaining the revenues it collects. Given that nations are sovereign and have not agreed to share emissions rights, this principle can be considered as the default option against which the other ones can be compared in terms of distributive effects.

Historical responsibilities. At the opposite end of the spectrum is the principle of *historical responsibilities*, which assigns to each country a carbon budget proportional to its

population. Countries that have emitted more than the average have accumulated a carbon debt towards countries that have emitted less, which have a carbon credit.⁴

To fully specify this rule, one needs to define a start date for the responsibilities on past emissions and specify how to account for population size. 1990 is often chosen as a start year as it is the date of the first IPCC assessment report, marking the widespread acknowledgment of climate change, though variants include 1972, 1960, 1950 or 1850.⁵ Several solutions have been proposed to account for evolving populations, none of which is flawless. Matthews (2015) allocates emissions rights on a given year proportionally to the countries' populations in that year. An alternative is to use fixed populations, such as the populations at the chosen start year (Neumayer 2000), or at a future date such as projected when the global total population will reach 9 billion (Raupach et al. 2014). Fanning & Hickel (2023) convert the projected climate debt up to 2050 into monetary terms in a 1.5°C scenario.

The rationale for using fixed populations is to prevent countries from intentionally increasing their population size to gain more emissions rights. However, this approach treats countries with different demographic trajectories similarly, effectively penalizing countries which grow more than others (if past populations are used) or grow more than expected (if future populations are used). Using current populations like Matthews (2015) also comes with its own problems. Consider two countries having contributed very little to cumulative emissions, with the same emissions per capita but different demographic patterns: country A's population has doubled in the last 30 years, while country B's population has remained stable. Despite the similar present situation, country B would accumulate more carbon credit than country A. Essentially, compensating country B more due to its past population size amounts to compensating the dead although it is future generations who will suffer. That being said, using current populations is likely a more viable solution than relying on fixed populations since, in practice, countries with similar emissions per capita tend to have relatively similar demographic trajectories.

Ability to pay. Another prominent burden-sharing principle is the ability to pay whereby richer countries should contribute more to mitigation efforts. To operationalize this principle, Baer et al. (2008) define *capacity* as the share of global income above an exemption

⁴It is not clear how these debts would be settled. Approaches could involve carbon removal from the atmosphere, or using a conventional social cost of carbon to monetize them, by crediting (positively or negatively) emissions rights to countries in an international carbon market.

⁵Climate equity monitor uses 1850 for example.

threshold. They use the threshold of \$7,500 per year (in 2005 PPP), which corresponds to the top 28% of the global income distribution. According to this principle, the effort of a country should be proportional to the revenues it would raise with a linear income tax on individual income above \$7,500.

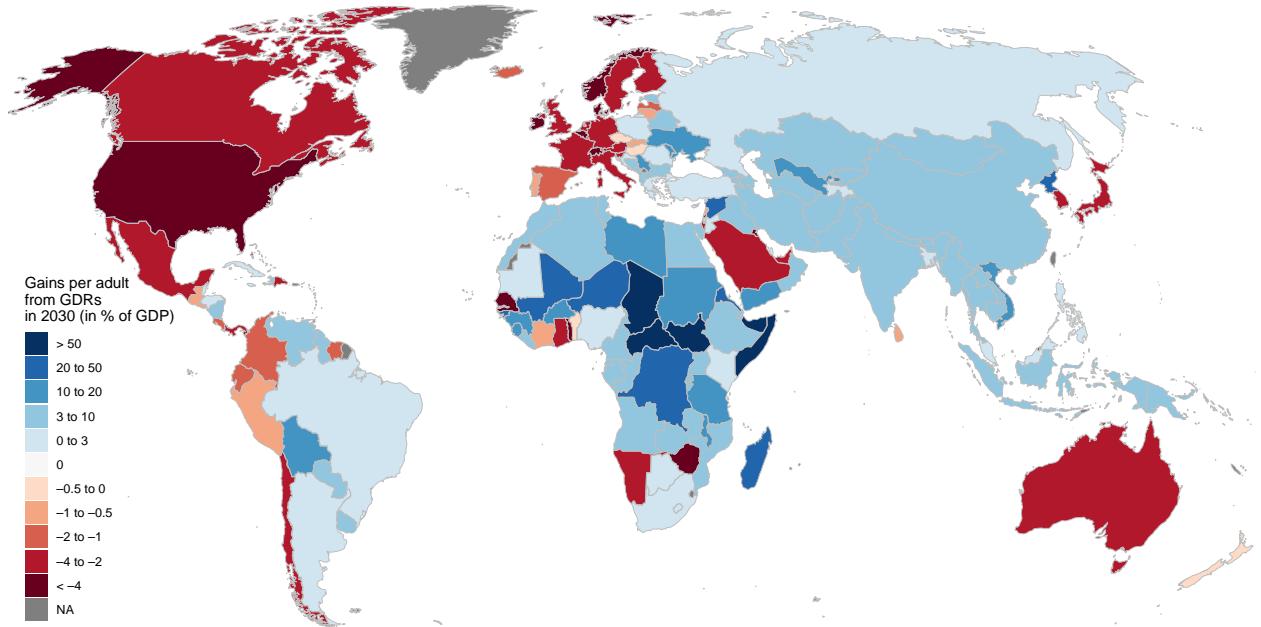
Climate Equity Reference Framework Baer et al. (2008) propose another effort-sharing method, the *Climate Equity Reference Framework* (CERF), which blends the ability to pay principle with their version of historical responsibilities. They define *responsibility* as follows: they determine the mitigation requirement as the emissions gap between the Business as Usual scenario from IEA (2007) and a 2°C (with 68-86% probability) scenario. The mitigation requirement is then allocated to countries proportionally to their cumulative emissions (starting in 1990). The emissions right of a country according to their *responsibility* are then determined by its Business as Usual emissions minus its mitigation requirement. A country's emissions right, dubbed its *greenhouse development right* (GDR), is defined using a combination of *capacity* (C) and *responsibility* (R) to allocate the mitigation requirement between countries. This allocation key is called the *Responsibility and Capacity Indicator* (RCI) and defined as $RCI = R^a \cdot C^{1-a}$, with $a = .4$.

This choice of parameter may seem somewhat arbitrary, but the [EcoEquity calculator](#) allows for a customization all CERF parameters (Holz et al. 2019). The Climate Action Network has adopted the CERF as its *fair share* framework, though the different national chapters of the organization could not agree on a choice of parameters (Athanasou et al. 2022).⁶

The CERF approach was adopted by a prominent network of climate NGOs because it operationalizes the principle of *common but differentiated responsibilities and respective capabilities* recognized by the UNFCCC. However, this approach suffers from three drawbacks. First, its definition of historical responsibility as an effort sharing principle is inconsistent with the principle of an equal right of cumulative emissions per capita, which is a resource sharing principle. For instance, consider a fully decarbonized country that has exhausted *exactly* its cumulative carbon budget. According to the CERF notion of *re-*

⁶The U.S. Climate Action Network and the think tank EcoEquity (funded by Tom Athanasiou and late Paul Baer) choose the following parameters: an equal weight for R and C ($a = .5$), their own [business as usual projections](#) of CO₂ emissions based on trends of GDP growth and emissions intensity reduction, a 1.5°C (Low Energy Demand) pathway, 1950 as the start year for responsibility, a gradual inclusion of income to compute *capacity* (which adds complexity to the calculation) from a full exemption of the bottom 70% (\$7,500 per year) linearly to a full inclusion of the top 2% (\$72,211), the inclusion of non-CO₂ gases but not of emissions embodied in trade (i.e. imported emissions) nor LULUCF (land-use).

Figure A1: Net gains from the CERF burden-sharing rule in 2030.



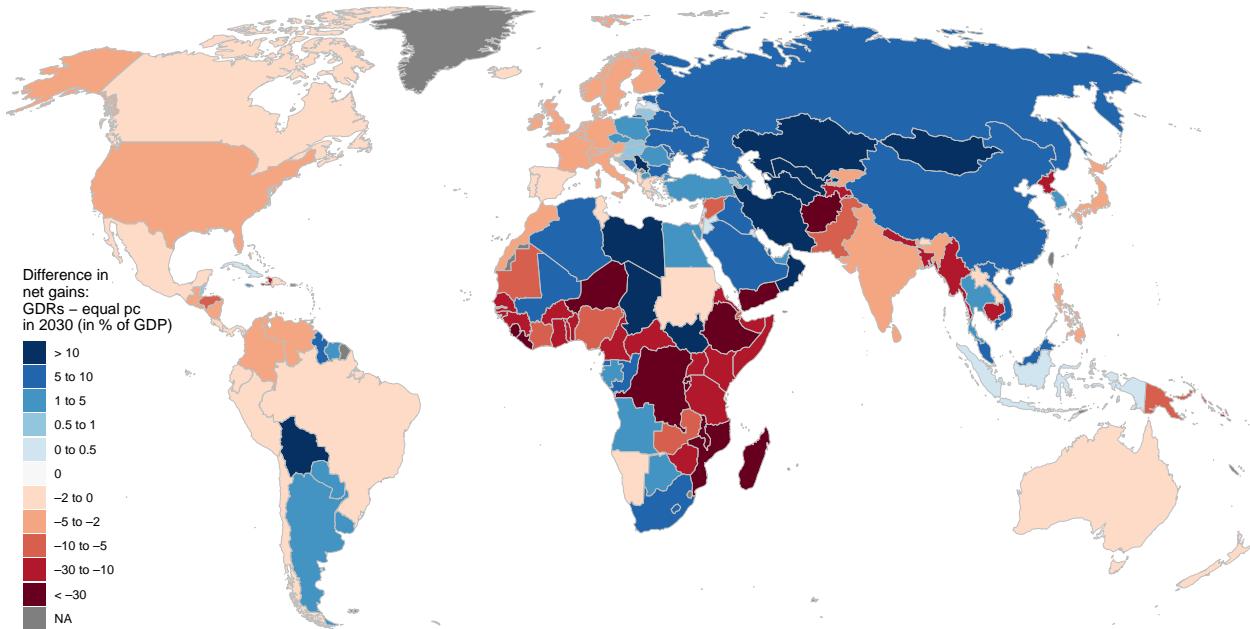
Note: GDRs are calibrated with the preferred parameters of the [U.S. Climate Action Network](#) ([Athanasios et al. 2022](#)) using the Efficiency scenario (2°C with >50% chance) of the Global Energy Assessment ([Johansson et al. 2012](#)) and a price of \$144/tCO₂.

sponsibility, this country would still be expected to contribute significantly to mitigation efforts due to its relatively high cumulative emissions. Yet, according to the usual definition of the historical responsibility based on an equal right of cumulative emissions p.c., this country would have no liability as it has not exceeded its carbon budget. Second, a country with moderate incomes⁷ and low historical responsibility would be assigned a relatively low effort, even if its emissions per capita are high. In other words, the CERF approach favors countries that have experienced recent growth. Third, the poorest countries would be granted emissions rights close to the Business as Usual trajectory, as they would bear virtually none of the effort. But this trajectory carries the current (unfair) income distribution and amounts to grandfathering. For example, the baseline trajectory for emissions⁸ in the DRC entail 0.8 tCO₂ p.c. in 2030, which is five times less than the world average emissions right per capita. In this framework, if the DRC were to grow faster than projected in the baseline, it would actually have to pay to the rest of the world for mitigation efforts. This is what is likely to happen to countries like Mexico or Senegal,

⁷Using the above parameters, moderate incomes means few incomes above the global 70th. percentile.

⁸The baseline trajectory is computed as the “product of the projected GDP and CO₂ emission intensity”.

Figure A2: Difference between net gains from Greenhouse Development Rights and equal rights per capita.



Note: GDRs are calibrated with the preferred parameters of the [U.S. Climate Action Network](#) ([Athanasio et al. 2022](#)) using the Efficiency scenario (2°C with >50% chance) of the Global Energy Assessment ([Johansson et al. 2012](#)) and a price of \$144/tCO₂.

from our simulation of the net gains of CERF compared to a situation without international transfers (see Figure A1). In contrast, a resource sharing approach based on equal per capita emissions would result in low-income countries receiving emissions rights exceeding their projected trajectories, leading to transfers from high-income countries. By construction, such transfers do not occur in an effort sharing approach like the CERF, implying lower transfers to low-income countries. Compared to an equal right to emit per capita, this method favors countries like China (whose emissions are allowed to remain stable over 2020-2030 instead of a reduction of 35-40%) and penalizes regions like Sub-Saharan Africa and Latin America (see Figure A2).

Contraction and Convergence. Meyer (2004) defines a rule called *contraction and convergence* (C&C), which combines elements of grandfathering and equal per capita approaches. According to C&C, each country is granted (tradable) emissions rights, starting at their current emission level and converging linearly to an equal per capita level at some pre-specified date. The *contraction* part refers to the reduction of total emissions rights in

line with the climate objective. When discussed around year 2000, the convergence date was specified between 2020 and 2050. This rule, advocated by the Global Commons Institute (a UK think tank), was on the agenda from COP2 to COP15 (i.e., until Copenhagen, and including in Kyoto), including at Kyoto, and was endorsed by the European Parliament in 1998. More recently, Gignac & Matthews (2015) have shown how C&C can be made consistent with historical responsibilities by computing carbon debts and credits until the convergence date.

Assessments of the NDCs against burden-sharing principles. The regime established by the 2015 Paris agreement to regulate climate change respects none of the burden-sharing principles and relies instead on voluntary contributions from each country, known as Nationally Determined Contributions (NDCs). A body of literature (reviewed by Höhne et al. 2014) assesses the NDCs against the emissions reduction objective and different burden-sharing principles. To evaluate the NDCs, Gao et al. (2019) examine their emissions projections for 2030 and estimate the resulting increase in temperature. The most recent and comprehensive assessment of NDCs against burden-sharing principles is conducted by van den Berg et al. (2020) (see also Raupach et al. 2014; Robiou du Pont et al. 2016, 2017).

A.2.3 Global redistribution

Addressing global poverty, inequalities, and climate change are central to the universally agreed Sustainable Development Goals (SDG). As highlighted by Bolch et al. (2022), low-income countries often lack sufficient domestic resources to eradicate poverty in the short term, indicating the need for international transfers to rapidly end global poverty. In *Beyond the Welfare State*, Gunnar Myrdal (1960) called for a *welfare world*. In his Nobel lecture, he emphasized the necessity of increasing foreign aid to low-income countries, stating that “The type of marginal foreign aid we have provided, is clearly not enough to meet their barest needs” (Myrdal 1975).

Drawing on the labor theory of value, some economists have argued that global inequalities arise from unequal exchange in international trade (Arghiri 1972). Indeed, the stark disparity in wages between countries implies that one unit of labor exported by an American commands five units of labor embodied in imported goods, whereas Ethiopians need to export 50 units of labor to obtain one unit through imports (Alsamawi et al. 2014; Reyes et al. 2017). Taking stock, Hickel (2017) proposes to globally establish mini-

mum wages at 50% of the local median wage. [Hickel \(2017\)](#) also suggests other solutions against global inequality, which served as inspiration for our questionnaire. These measures include the cancellation of low-income countries' public debt, fair trade practices (such as eliminating tariffs from high-income countries, reducing patent protections, and reducing farming subsidies in rich countries), initiatives to combat tax evasion (e.g., implementing a global financial register), land reform, and a fair international climate policy.

[Piketty \(2014\)](#) prominently advocates for a progressive wealth tax on a global scale, although he does not specify whether the resulting revenues should fund international transfers.

[Kopczuk et al. \(2005\)](#) compute the optimal linear income tax rates for all countries in two ways: globally centralized and decentralized (i.e., within each country and without international transfers). They show that the average decentralized rate is 41%. In contrast, the global rate is 62%, which would generate funds to finance a basic income of 250\$/month (higher than the GPD per capita of 73 countries). From a current global Gini index of 0.695, they show that decentralized optimal taxation would only marginally reduce global inequality to 0.69, whereas global taxation would significantly decrease the Gini to 0.25. The study also shows that the existing level of foreign aid can only be rationalized if the U.S. attaches 2,000 less value to a citizen in the poorest countries than to an American citizen (or 1,000 less if half of the transfers are diverted due to corruption).

A.2.4 Basic income

Unconditional cash transfers (UCT) are increasingly seen as an effective way to end extreme poverty. A growing body of evidence from randomized control trials supports this notion: [Gangopadhyay et al. \(2015\)](#) find that UCT outperform a food subsidy; [Haushofer & Shapiro \(2016\)](#) find significant impacts on health, economic outcomes, and psychological well-being; [Egger et al. \(2022\)](#) find large positive spillovers on non-recipient people, and minimal inflation. Reviews of existing research further confirm the positive outcomes of UCT ([Bastagli et al. 2016](#); [Standing 2014](#)).

While the delivery of cash to remote areas and the prevention of fraud is challenging in regions without a proper civil register, the use of mobile phones as banking and biometric identification tools could provide viable solutions ([Harnett 2017](#)). Although many places still lack internet access, satellite internet technology shows promising progress, with some experts suggesting that it could soon become affordable and universally accessible ([Hanson 2016](#)).

A.2.5 Global democracy

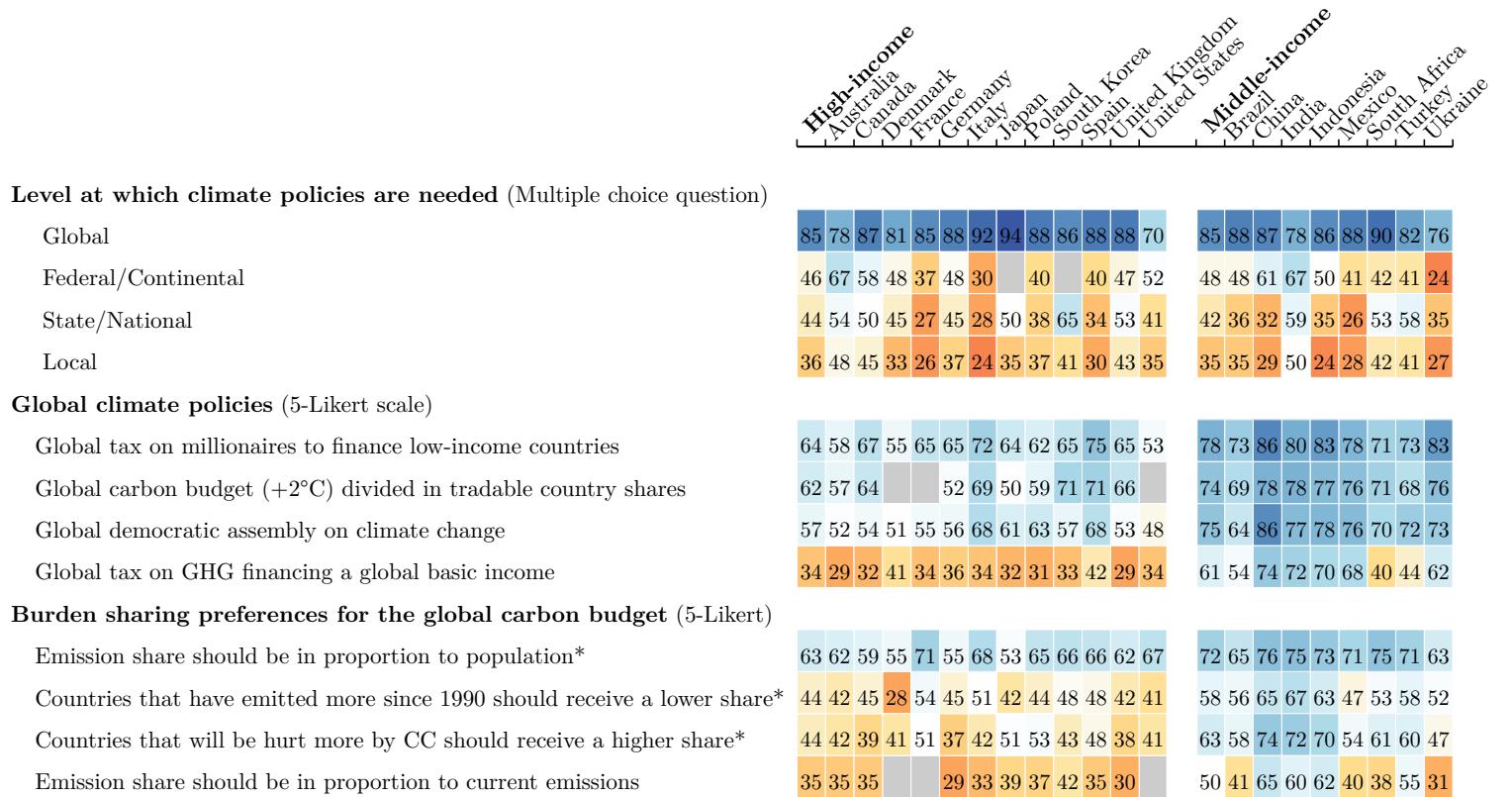
The idea of world federalism has a long-standing history, dating back at least to Kant (1795), who argued that a world federation was essential for achieving perpetual peace. International organizations were eventually created to foster peace, though the League of Nations and its successor, the United Nations, never succeeded in avoiding military conflicts. Many have argued that we need stronger and more democratic global institutions, competent to address global challenges such as extreme poverty, climate change, wars, pandemics, or financial stability. Before World War II, feminist and pacifist Maverick Lloyd & Schwimmer (1937) founded the *Campaign for World Government*, advocating for direct representation at the global scale. Einstein (1947) called for the subordination of the UN Security Council to the General Assembly and the direct election of UN delegates. Since 2007, there has been widespread support for a United Nations Parliamentary Assembly (UNPA) from individuals and institutions in over 150 countries, including 1,800 member of parliament, heads of state, as well the European Parliament, the Pan-African Parliament, and the Latin-American Parliament. The UNPA campaign calls for a gradual implementation of a democratic assembly, starting with a consultative assembly composed of members of national parliaments, allowing for the direct election of its members in voluntary countries, and progressing towards a world parliament with binding legislative powers once all members are directly elected (Leinen & Bummel 2018). Besides the UNPA, various scholars have put forward different models of global democracy, ranging from deliberative spaces to a world federation (Archibugi et al. 2011). While the most radical proposals may still be on the horizon, an assembly of random citizens representative of the world population has already been convened. It has produced a joint statement at the COP26 (Global Assembly 2022), and a similar *World Citizens' Assembly* should soon follow.

B Raw results

Country-specific raw results are also available as supplementary material files: [US](#), [EU](#), [FR](#), [DE](#), [ES](#), [UK](#).

Figure A3: Absolute support for global climate policies (Reproduced from [Dechezleprêtre et al. 2022](#), Figure A20.).

Share of *Somewhat* or *Strongly support* (in percent, $n = 40,680$). The color blue denotes an absolute majority. See Figure 1 for the relative support. (Questions A-I of the global survey.)



*In Denmark, France and the U.S., the questions with an asterisk were asked differently, cf. Question F.

Figure A4: Correct answers to comprehension questions (in percent). (Questions 16-18)

	United States	Europe	France	Germany	Spain	United Kingdom
With NR, typical [country] people win and richest lose	68	73	76	73	73	70
With GCS, typical [country] people lose and poorest humans win	60	68	62	72	67	67
With GCS+NR, typical [country] people neither win nor lose	54	60	63	59	57	61

Figure A5: Number of correct answers to comprehension questions (mean). (Questions 16-18)

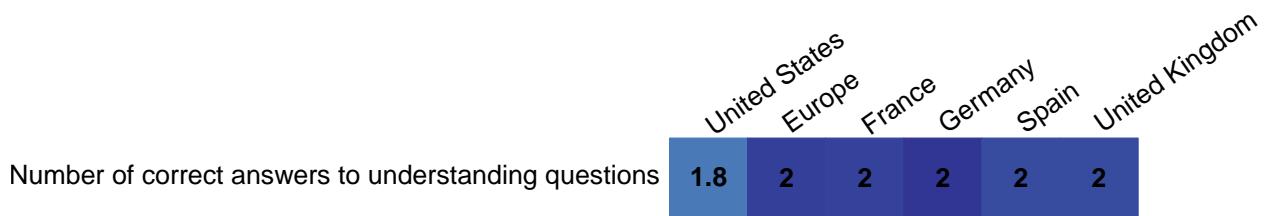


Figure A6: List experiment: mean number of supported policies. (Question 24)

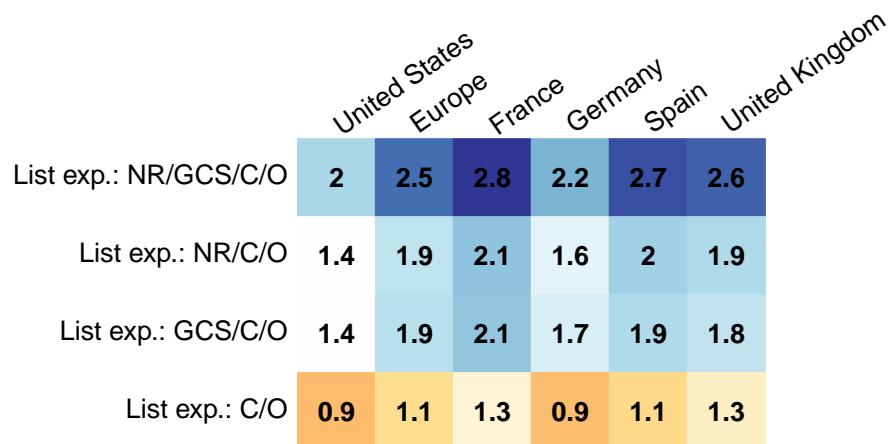


Figure A7: Conjoint analyses 1 and 2. (Questions 25-27)

	United States	Europe	France	Germany	Spain	United Kingdom
Global climate scheme (GCS)	54	76	80	71	81	74
C+NR+GCS preferred to C+NR	55	74	79	71	78	68
NR+GCS preferred to NR	55	77	79	74	79	77
NR+C preferred to NR	62	84	88	83	84	82
GCS+NR preferred to C+NR	47	52	53	53	49	52
NR+C+GCS preferred to NR	55	77	86	73	83	72

Table A1: Effects on the support for the GCS of a question on its pros and cons and on information about the actual support, in the U.S. (See Section D in the US2 Questionnaire)

	Support			
	Global Climate Scheme		National Redistribution	
	(1)	(2)	(3)	(4)
Control group mean	0.557	0.557	0.569	0.569
Treatment: Open-ended field on GCS pros & cons	-0.073** (0.035)	-0.071** (0.031)	-0.035 (0.035)	-0.030 (0.032)
Treatment: Closed questions on GCS pros & cons	-0.109*** (0.034)	-0.096*** (0.031)	-0.065* (0.034)	-0.062** (0.031)
Treatment: Info on actual support for GCS and NR	-0.021 (0.034)	-0.015 (0.031)	0.048 (0.033)	0.056* (0.031)
Includes controls		✓		✓
Observations	2,000	1,995	2,000	1,995
R ²	0.007	0.170	0.007	0.154

Figure A8: Effects of the presence of a policy (rather than none from this domain) in a random platform on the likelihood that it is preferred to another random platform. (See original translations in Figure 8; Question 29)

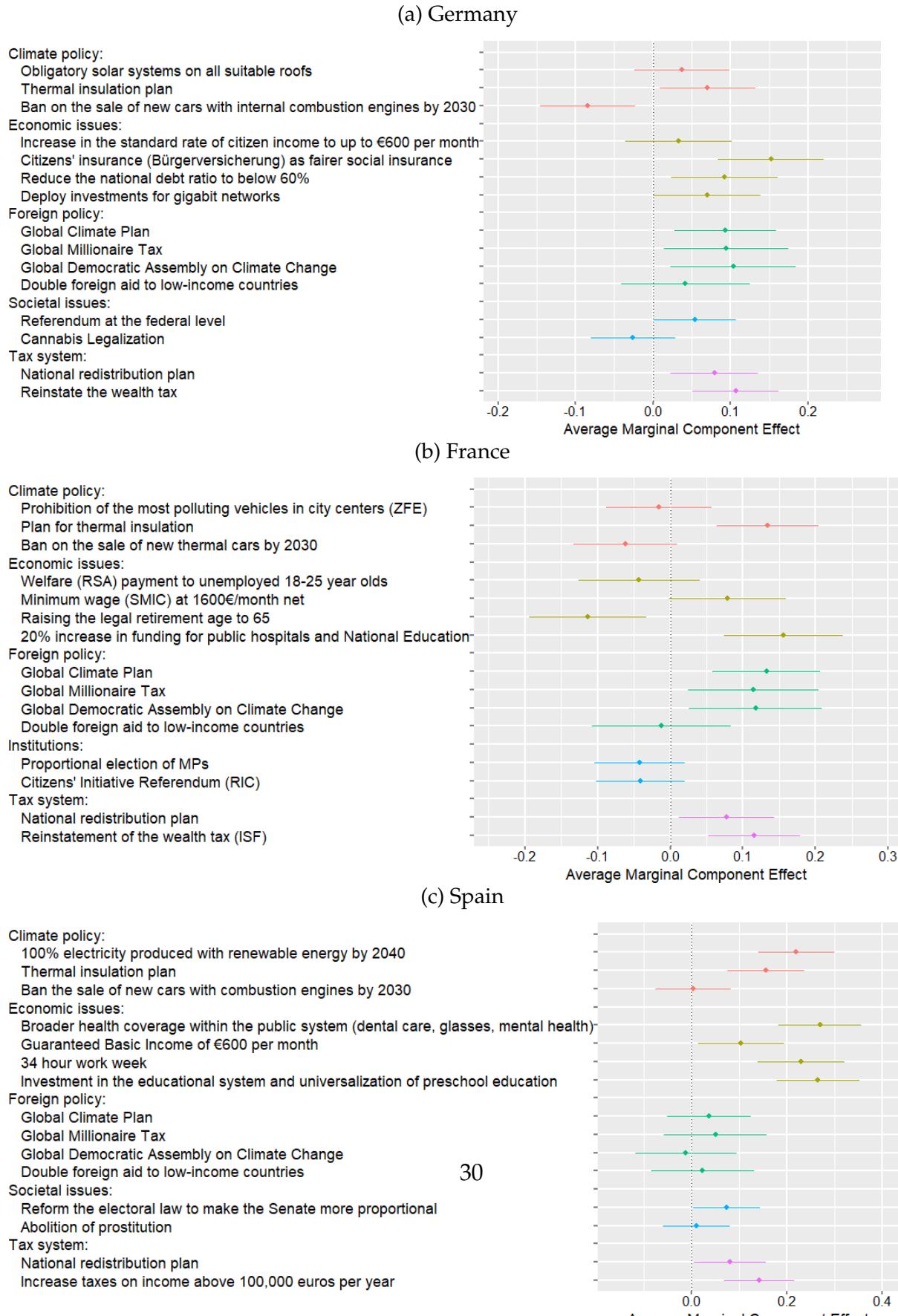


Figure A9: Perceptions of the GCS. Elements seen as important for supporting the GCS in a 4-Likert scale (in percent). (Question 32)

	United States	Europe	France	Germany	Spain	United Kingdom
It would succeed in limiting climate change	78	85	85	86	86	83
It would hurt the [Country] economy	81	67	61	67	66	69
It would penalize my household	75	60	55	63	59	63
It would make people change their lifestyle	78	79	83	79	78	77
It would reduce poverty in low-income countries	77	85	88	85	86	81
It might be detrimental to some poor countries	79	72	79	67	78	70
It could foster global cooperation	82	81	81	82	85	80
It could fuel corruption in low-income countries	79	75	82	69	79	72
It could be subject to fraud	80	79	80	74	83	81
It would be technically difficult to put in place	77	71	74	62	79	71
Having enough information on this scheme and its consequences	89	82	89	68	91	88

Figure A10: Perceptions of the GCS. Elements found in the open-ended field on the GCS (manually recoded, in percent). (Question 31)

	United States	Europe	France	Germany	Spain	United Kingdom
environment	26	31	37	26	43	24
unclassifiable	25	24	23	28	25	22
pro	22	23	21	22	33	20
con	22	17	12	18	20	16
cost	17	12	11	14	17	7
poorest humans	11	7	6	9	5	6
tax redistribution	10	7	11	8	4	9
support	8	6	3	5	6	8
oppose	7	3	2	3	1	4
don't know	6	8	10	8	7	10
empty	6	3	0	0	0	13
difficult agreement	5	10	7	12	8	8
difficult implement	3	5	5	6	4	6
misunderstands gcs	3	2	2	1	3	1
misunderstands question	2	2	1	3	3	3

Figure A11: Perceptions of the GCS. Keywords found in the open-ended field on the GCS (automatic search ignoring case, in percent). (Question 31)

	United States	Europe	France	Germany	Spain	United Kingdom
world: international world country global	28	22	23	19	22	23
environment: climate environment animal emission nature	26	21	17	28	21	17
poorest: poor low-income 700 poverty	16	8	8	9	4	10
pro: pro pros pros pros:	16	3	0	1	9	5
con: con con: cons cons:	15	4	0	1	8	6
cost: cost expensive higher price 85 inflation	13	7	5	9	7	6
tax: tax	8	3	4	3	2	2
redistribution: rich redistribution	8	4	5	4	3	5
implementation: implement enforce policy monitor	6	4	5	6	0	5
agreement: agree accept participate	3	4	5	6	2	3

Figure A12: Donation in case of lottery win, depending on the recipient's (randomly drawn) nationality (mean). (Question 34)

	United States	Europe	France	Germany	Spain	United Kingdom
Donation to own country	35	34	31	38	34	32
Donation to Africa	32	35	33	41	32	33

Table A2: Donation in case of lottery win, depending on the recipient's (randomly drawn) nationality. (Question 34)

	Donation to poor people (in %)			
	All	US	US	Eu
Poor is in own country	0.590 (0.799)	2.509** (1.152)	0.046 (1.691)	-1.349 (1.108)
Poor is in own country × Vote: <i>not</i> Biden			3.954* (2.279)	
Mean	34.034	33.658	33.658	34.41
Observations	6,000	3,000	3,000	3,000
R ²	0.0001	0.002	0.034	0.0005

Figure A13: Support for a global wealth tax.

"Do you support or oppose a tax on millionaires of all countries to finance low-income countries?

Such tax would finance infrastructure and public services such as access to drinking water, healthcare, and education." (Question 35)

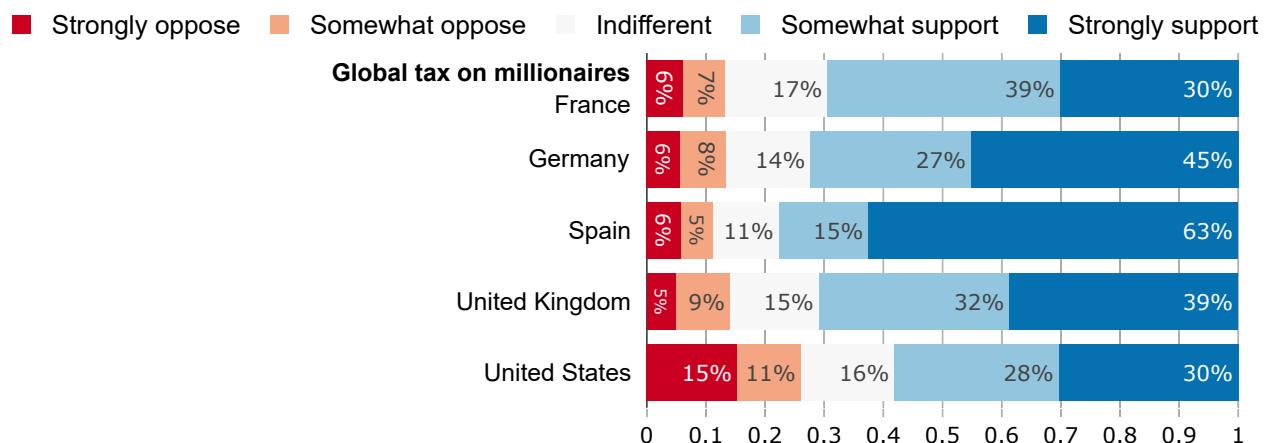


Figure A14: Support for a national wealth tax financing public services like healthcare, education, and social housing. (Question 36)

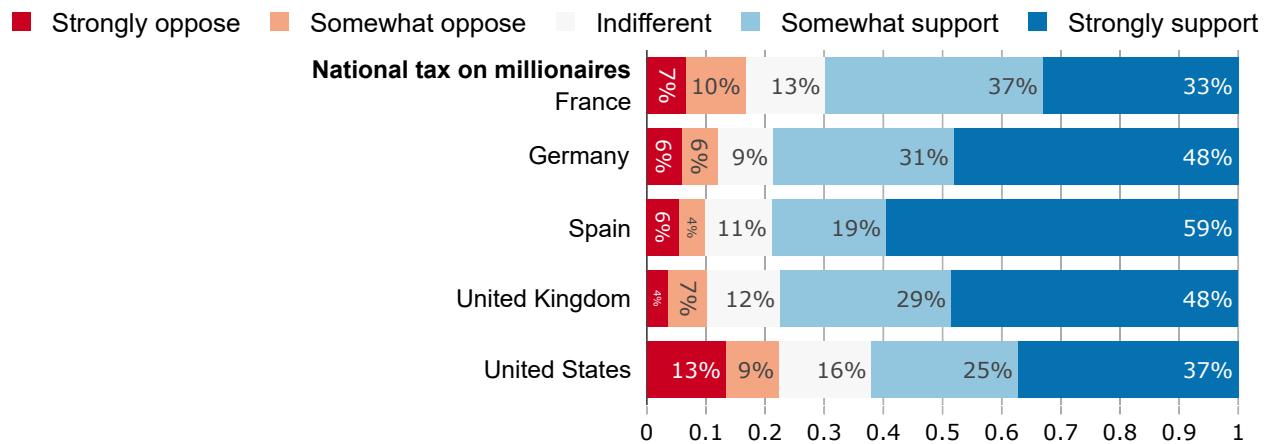


Figure A15: Preferred share of global wealth tax revenues that should be pooled to finance low-income countries. (Question 37)

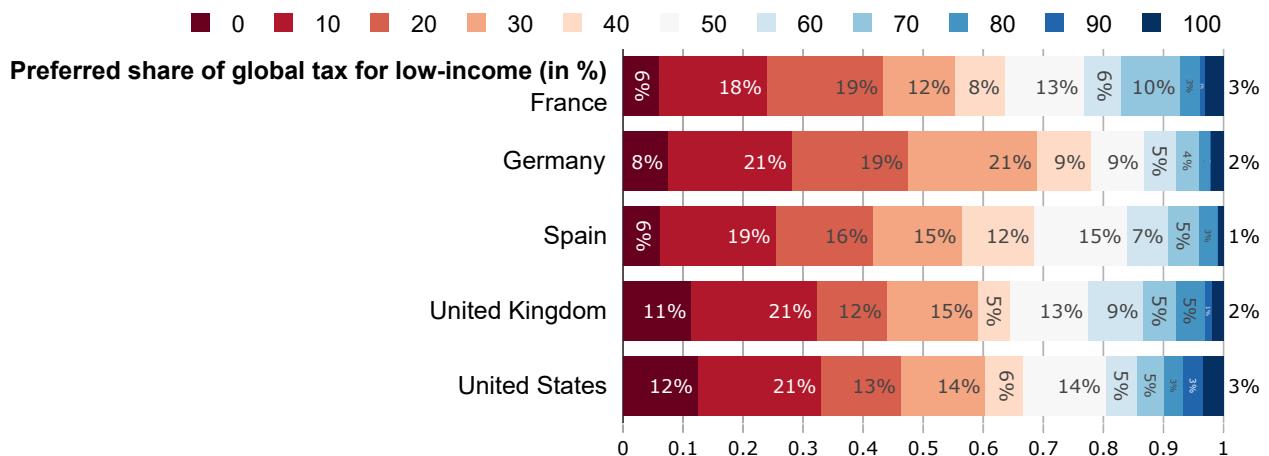


Figure A16: Support for sharing half of global tax revenues with low-income countries, rather than each country retaining all the revenues it collects (in percent). (Question 38)



Figure A17: Actual, perceived and preferred amount of foreign aid, with random info (or not) on actual amount. (Mean, Questions 39, 40)

	United States	Europe	France	Germany	Spain	United Kingdom
Actual foreign aid (in % of public spending)	0.4	1.1	0.8	1.3	0.5	1.7
Belief about foreign aid	4.7	2.9	2.7	2.9	2.8	3.5
Preferred foreign aid (with info)	1.8	2.7	3.4	2.9	2.1	2.5
Preferred foreign aid (no info)	4	3.9	4.7	4.4	3.1	3.4

Figure A18: Preferred foreign aid (after info or after perception). (Questions 39 and 40)

	United States	Europe	France	Germany	Spain	United Kingdom
Preferred foreign aid is at least as high as current	70	75	91	76	77	57
Preferred foreign aid is higher than current	47	59	75	58	63	43
Preferred foreign aid is at least as high as perceived	57	74	83	79	77	58
Preferred foreign aid is higher than perceived	37	53	64	59	54	39

Figure A19: Perceived foreign aid. “From your best guess, what percentage of [own country] government spending is allocated to foreign aid (that is, to reduce poverty in low-income countries)?” (Question 39)

Actual values: France: 0.8%; Germany: 1.3%; Spain: 0.5%; UK: 1.7%; U.S.: 0.4%.

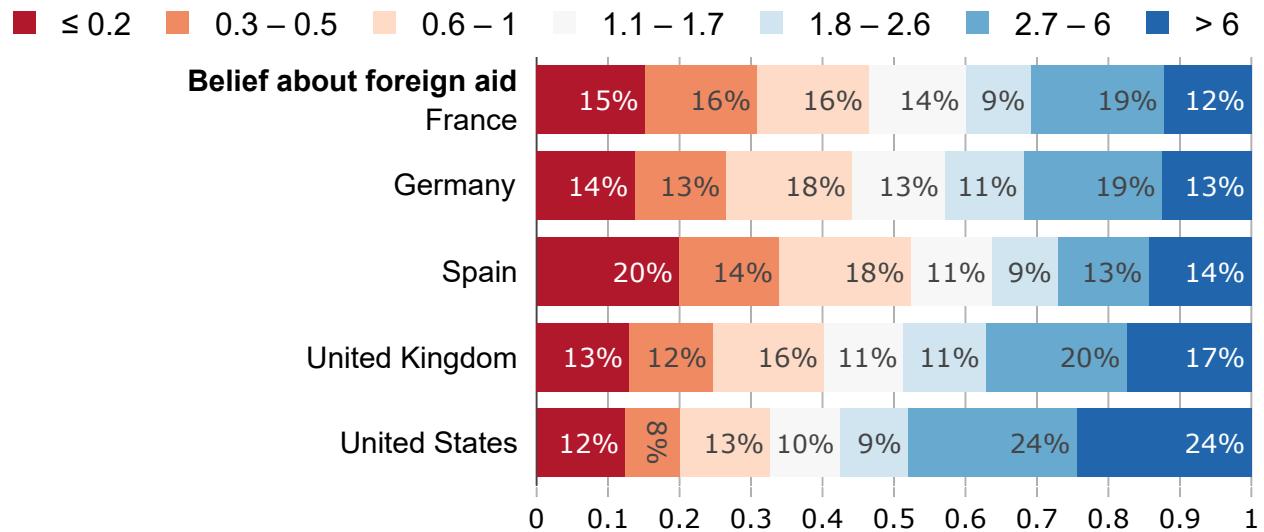


Figure A20: Preferred foreign aid (without info on actual amount).

“If you could choose the government spending, what percentage would you allocate to foreign aid?” (Question 40)

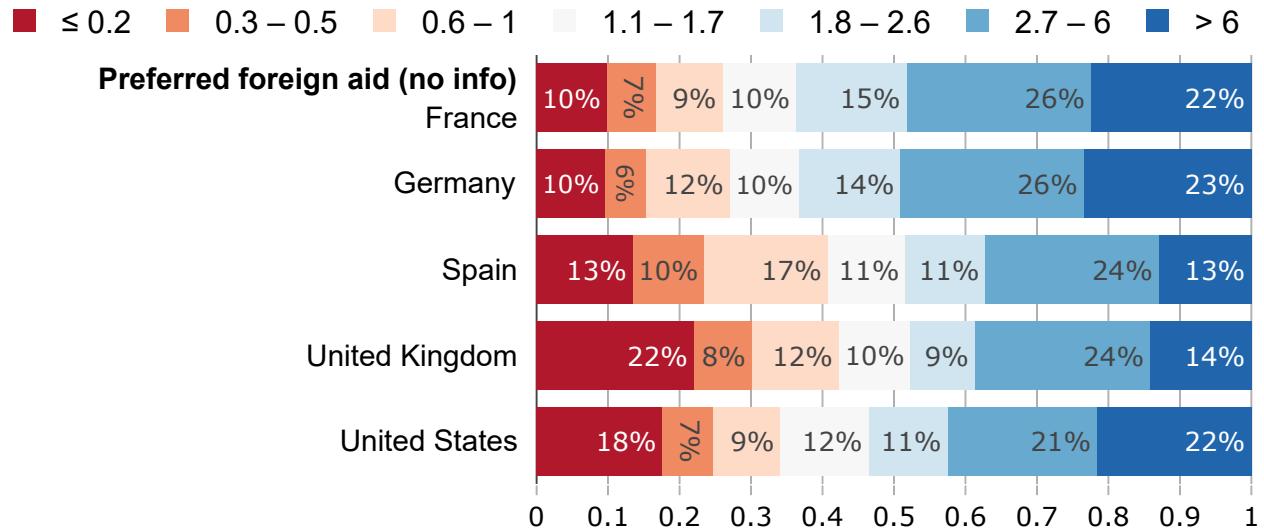


Figure A21: Preferred foreign aid (after info on actual amount).

"Actually, [US1: 0.4%; FR: 0.8%; DE: 1.3%; ES: 0.5%; UK: 1.7%] of [own country] government spending is allocated to foreign aid.

If you could choose the government spending, what percentage would you allocate to foreign aid?" (Question 40)

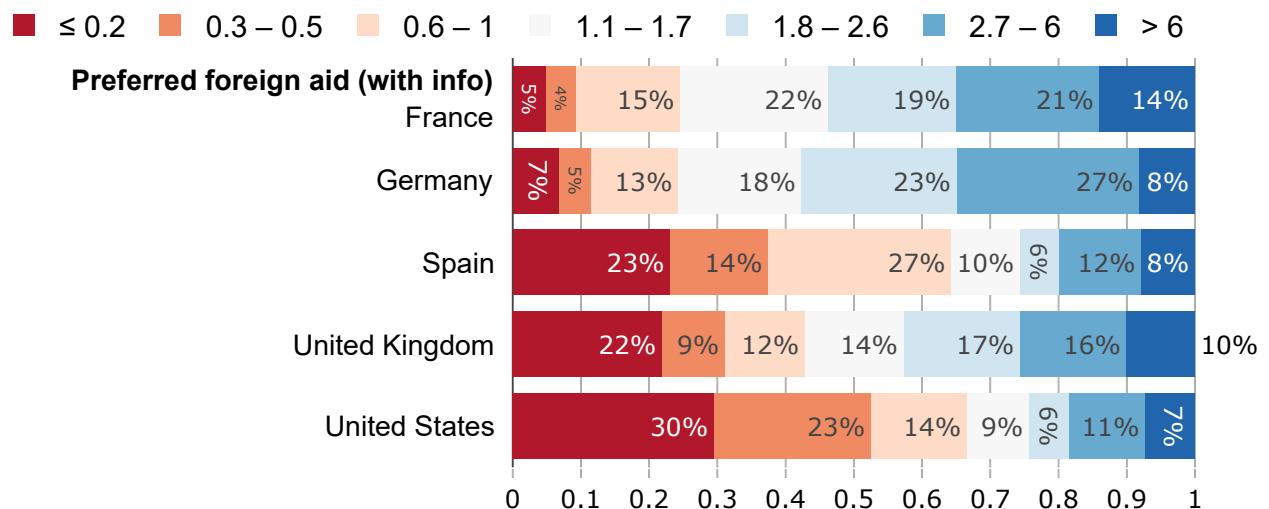


Figure A22: Preferences for funding increased foreign aid. [Asked iff preferred foreign aid is strictly greater than [Info: actual; No info: perceived] foreign aid]
 "How would you like to finance such increase in foreign aid? (Multiple answers possible)" (in percent) (Question 41)

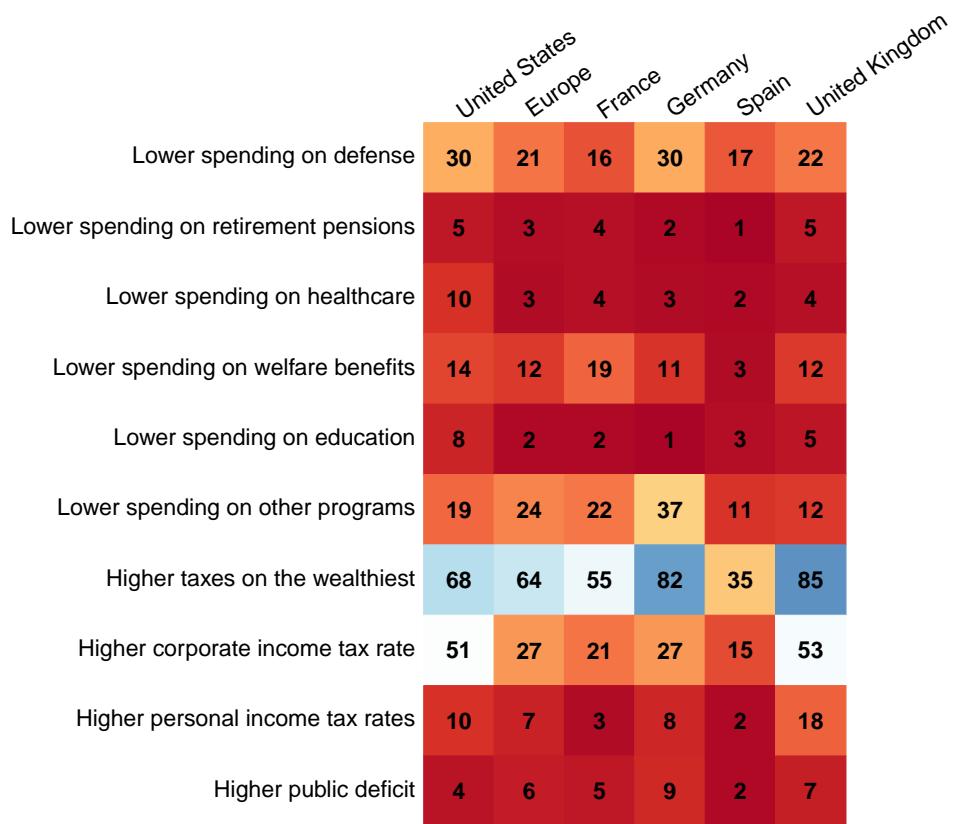


Figure A23: Preferences of spending following reduced foreign aid. [Asked iff preferred foreign aid is strictly lower than [Info: actual; No info: perceived] foreign aid]
 "How would you like to use the freed budget? (Multiple answers possible)" (in percent) (Question 42)

	United States	Europe	France	Germany	Spain	United Kingdom
Higher spending on defense	19	23	11	21	17	31
Higher spending on retirement pensions	23	41	22	51	57	35
Higher spending on healthcare	40	57	31	42	80	70
Higher spending on welfare benefits	13	20	7	19	39	20
Higher spending on education	30	45	31	47	58	43
Higher spending on other programs	6	6	6	4	9	8
Lower taxes on the wealthiest	5	2	5	2	0	2
Lower corporate income tax rate	12	6	10	4	8	6
Lower personal income tax rates	48	29	26	27	37	30
Lower public deficit	32	24	21	13	41	21

Figure A24: Willingness to sign real-stake petition for the Global Climate Scheme or National Redistribution, compared to stated support in corresponding subsamples (e.g. support for the GCS in the branch where the petition was about the GCS). (Question 43)

	United States	Europe	France	Germany	Spain	United Kingdom
Petition for the GCS	51	69	69	66	78	69
(Comparable) support for the GCS	53	76	81	74	81	74
Petition for NR	57	67	65	66	74	68
(Comparable) support for NR	58	72	76	65	78	75

Figure A25: Absolute support for various global policies (Percent of (*somewhat or strong*) support). (Questions 44 and 45. See Figure 2 for the relative support.)

	United States	Europe	France	Germany	Spain	United Kingdom
Payments from high-income countries to compensate low-income countries for climate damages	41	54	52	53	62	51
High-income countries funding renewable energy in low-income countries	53	65	62	66	68	62
High-income countries contributing \$100 billion per year to help low-income countries adapt to climate change	45	58	55	60	62	54
Cancellation of low-income countries' public debt	31	37	36	30	45	40
Democratise international institutions (UN, IMF) by making a country's voting right proportional to its population	34	44	44	43	52	43
Removing tariffs on imports from low-income countries	39	49	39	51	50	54
A minimum wage in all countries at 50% of local median wage	42	55	54	54	61	53
Fight tax evasion by creating a global financial register to record ownership of all assets	44	70	73	70	72	65
A maximum wealth limit of \$10 billion (US) / €100 million (Eu) for each human	34	45	40	48	44	50
National tax on millionaires funding public services	62	76	70	79	79	77
Global tax on millionaires funding low-income countries	58	71	69	72	78	71

Figure A26: Preferred approach of diplomats at international climate negotiations.
In international climate negotiations, would you prefer [U.S.] diplomats to defend [own country] interests or global justice? (Question 49)

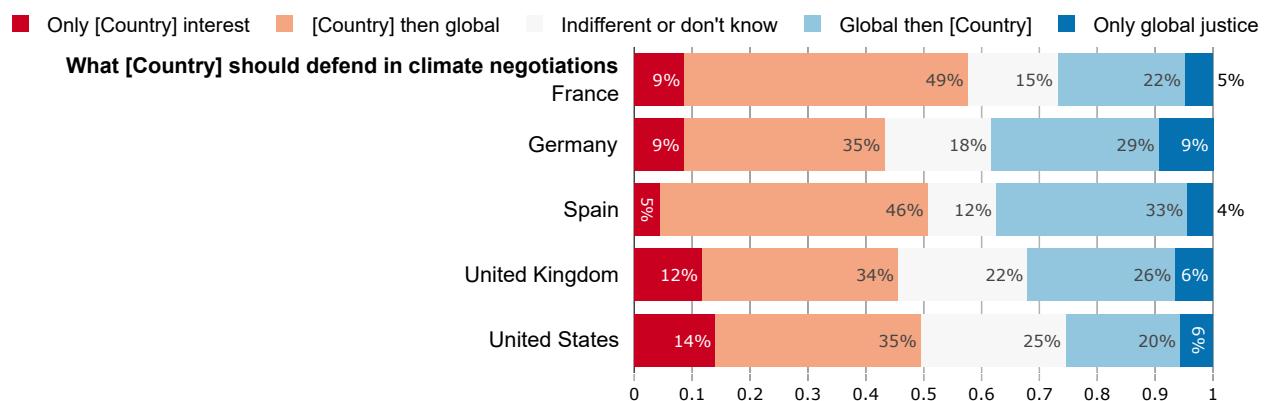


Figure A27: Percent of selected issues viewed as important.
 “To what extent do you think the following issues are a problem?” (Question 56)

	United States	Europe	France	Germany	Spain	United Kingdom
Income inequality in [Country]	55	59	54	58	71	57
Climate change	59	66	66	63	73	63
Global poverty	50	57	50	58	75	49

Figure A28: Group defended when voting.
 “What group do you defend when you vote?” (Question 57)

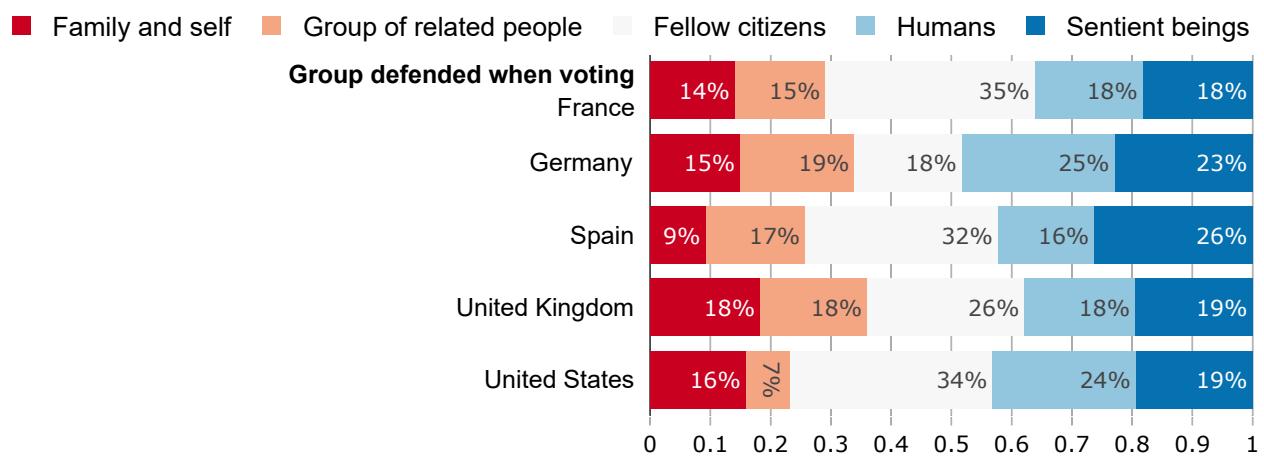


Figure A29: Mean prioritization of policies.

Mean number of points allocated policies to express intensity of support (among six policies chosen at random). Blue color means that the policy has been awarded more points than the average policy. (Question 58)

	United States	Europe	France	Germany	Spain	United Kingdom
econ1	13	21	10	14	35	31
econ2: [Higher minimum wage] (DE: Bürgerversicherung)	23	22	25	21	22	23
econ3	21	15	13	18	17	13
econ4	28	22	27	17	24	20
soc1	10	17	13	17	12	21
soc2	13	9	14	8	10	8
climate1	14	15	11	18	20	12
climate2: Thermal insulation plan (US: also transport)	20	18	22	19	15	17
climate3: Ban the sale of new combustion–engine cars by 2030	11	9	8	8	9	11
tax1: National redistribution scheme	14	15	16	15	15	15
tax2: Wealth tax (ES: raise tax on top incomes)	19	19	21	18	17	19
foreign1: Global climate scheme	15	20	20	23	16	17
foreign2: Global tax on millionaires	21	20	20	23	19	20
foreign3: Global democratic assembly on climate change	15	15	15	17	14	13
foreign4: Doubling foreign aid	9	11	13	14	9	8

Figure A30: Positive prioritization of policies.

Percent of people allocating a positive number of points to policies, expressing their support (among six policies chosen at random). (Question 58)

	United States	Europe	France	Germany	Spain	United Kingdom
econ1	64	78	61	67	96	95
econ2: [Higher minimum wage] (DE: Bürgerversicherung)	83	86	85	84	87	89
econ3	81	69	50	78	80	68
econ4	88	86	91	79	89	85
soc1	57	75	69	74	74	78
soc2	58	58	72	53	64	48
climate1	70	76	65	79	89	75
climate2: Thermal insulation plan (US: also transport)	79	83	86	84	78	80
climate3: Ban the sale of new combustion–engine cars by 2030	62	58	56	48	60	70
tax1: National redistribution scheme	67	79	79	76	82	79
tax2: Wealth tax (ES: raise tax on top incomes)	80	79	76	78	83	85
foreign1: Global climate scheme	71	83	84	85	84	78
foreign2: Global tax on millionaires	80	81	79	83	82	82
foreign3: Global democratic assembly on climate change	71	77	79	74	83	76
foreign4: Doubling foreign aid	58	70	79	74	74	57

Figure A31: Charity donation.

"How much did you give to charities in 2022?" (Question 50)

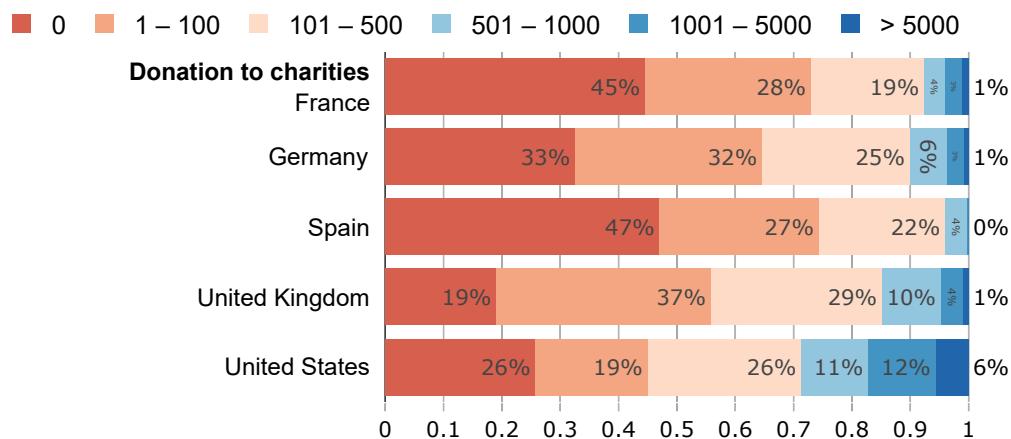


Figure A32: Interest in politics.

"To what extent are you interested in politics?" (Question 51)

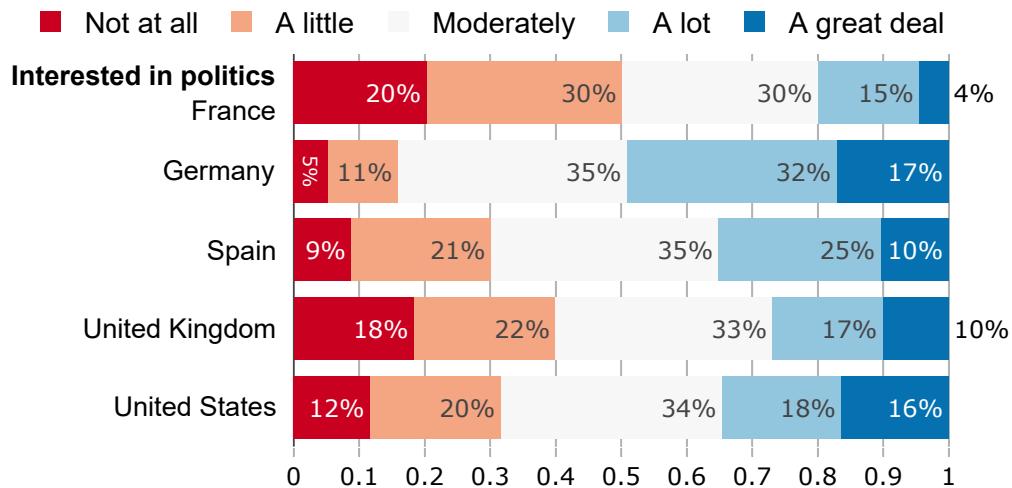


Figure A33: Desired involvement of government (from 1 to 5). (Question 52)

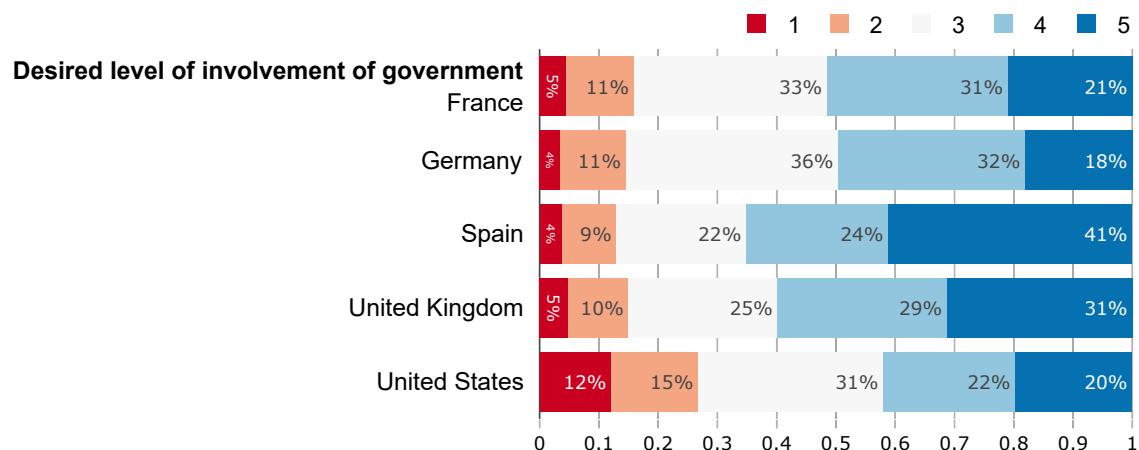


Figure A34: Political leaning on economics (from 1: Left to 5: Right). (Question 53)

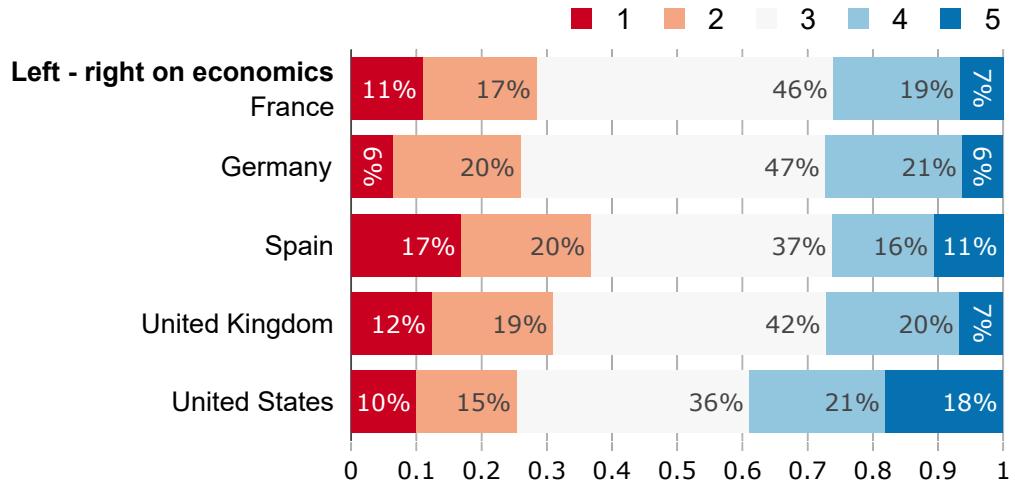


Figure A35: Voted in last election. (Question 54)

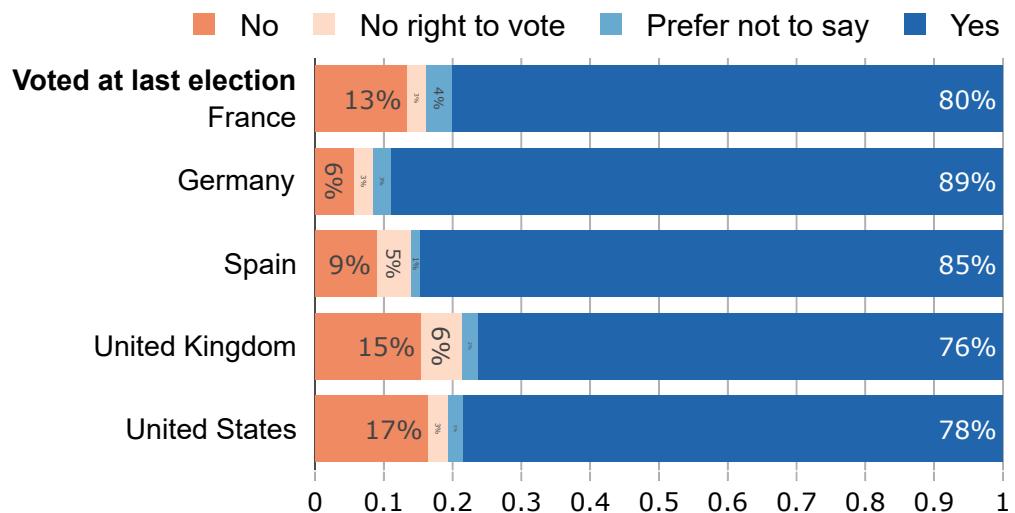


Figure A36: Vote in last election (aggregated). PNR includes people who did not vote or prefer not to answer. (Question 55)

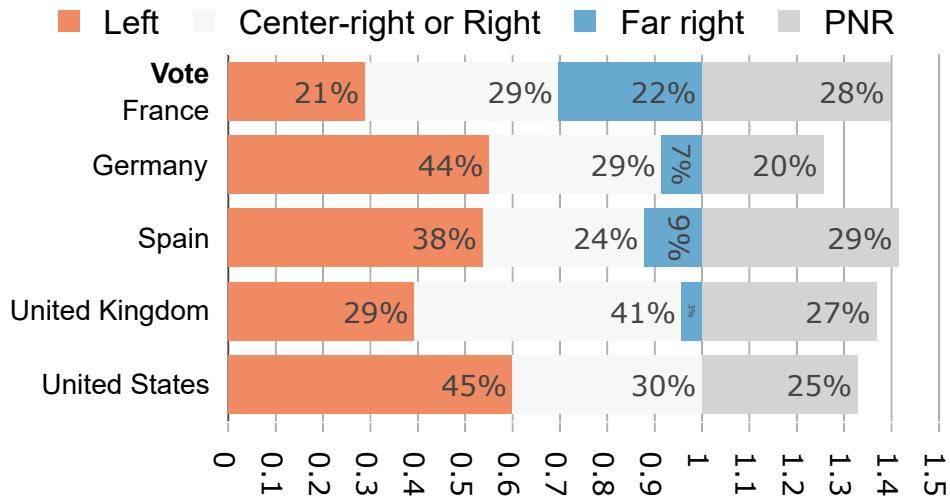


Figure A37: Perception that survey was biased.
“Do you feel that this survey was politically biased?” (Question 61)

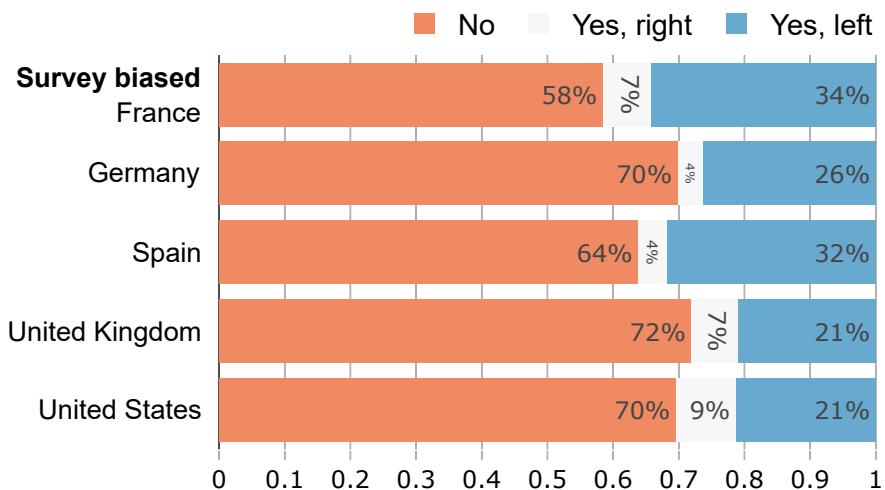
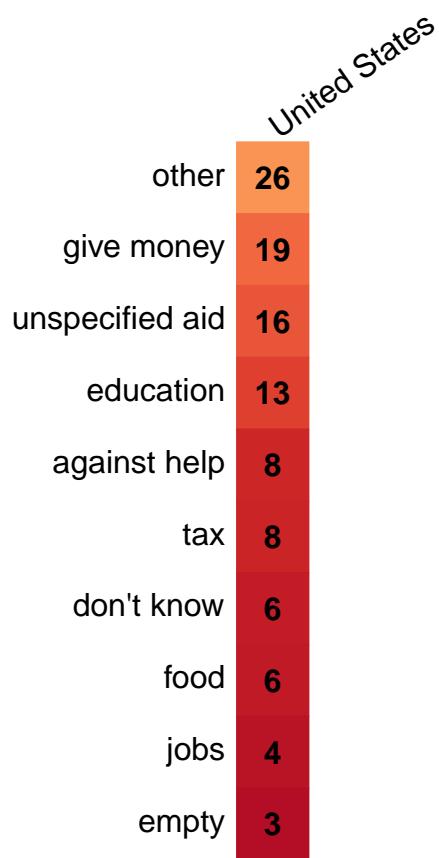


Figure A38: Opinion on the fight against extreme poverty.

“According to you, what should high-income countries do to fight extreme poverty in low-income countries?” (Question 62)

(a) Elements found in the open-ended field on the question
 (manually recoded, in percent)



(b) Keywords found in the open-ended field on the GCS (automatic search ignoring case, in percent).

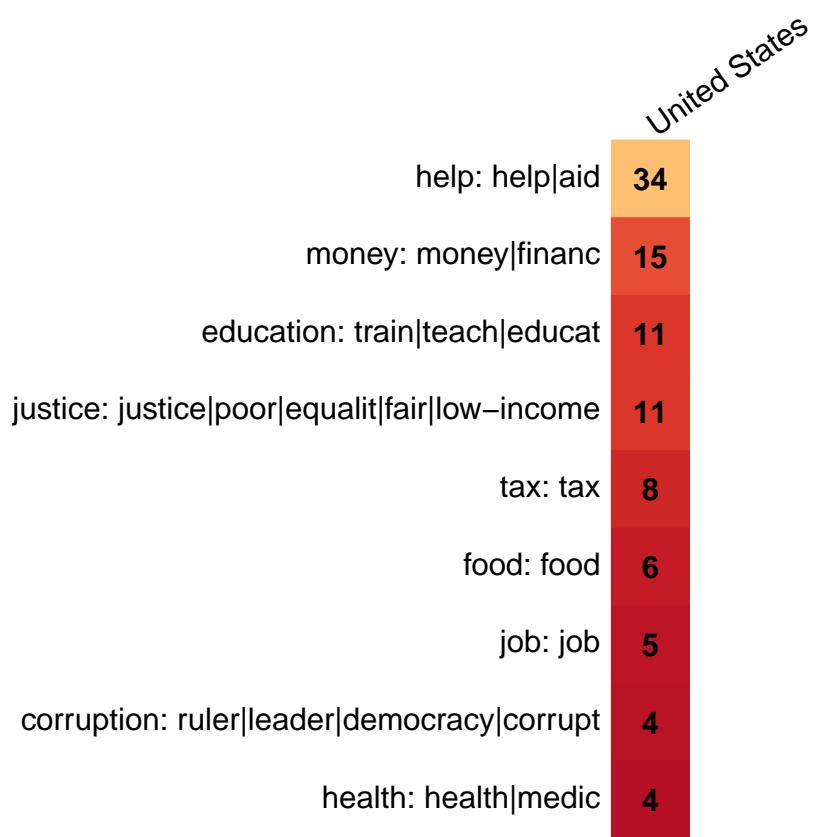


Figure A39: Main attitudes by vote (“Right” spans from Center-right to Far right).
 (Relative support in percent in Questions 20, 35, 45, 46, 49)

	Europe Left	Europe PNR/Non-voter	Europe Right	U.S. Left	U.S. PNR/Non-voter	U.S. Right
Support for the GCS	85	72	71	74	53	26
Global tax on millionaires	94	83	76	85	71	40
Sharing half of global tax with low-income countries	61	52	45	55	67	41
A maximum wealth limit of \$10 billion (US) / €100 million (Eu) for each human	73	65	52	62	49	23
High-income countries funding renewable energy in low-income countries	93	79	74	87	70	38
[Country]'s foreign aid should be increased	93	83	72	92	81	48
Universalist	56	48	26	53	49	23

C Questionnaire of the global survey (section on global policies)

- A. At which level(s) do you think public policies to tackle climate change need to be put in place? (Multiple answers are possible) [Figures 1 and A3]
Global; [Federal / European / ...]; [State / National]; Local

- B. Do you agree or disagree with the following statement: “[country] should take measures to fight climate change.”

Strongly disagree; Somewhat disagree; Neither agree nor disagree; Somewhat agree; Strongly agree

- C. How should [country] climate policies depend on what other countries do?

- If other countries do more, [country] should do...
- If other countries do less, [country] should do...

Much less; Less; About the same; More; Much more

- D. [In all countries but the U.S., Denmark and France] All countries have signed the Paris agreement that aims to contain global warming “well below +2 °C”. To limit global warming to this level, there is a maximum amount of greenhouse gases we can emit globally, called the carbon budget. Each country could aim to emit less than a share of the carbon budget. To respect the global carbon budget, countries that emit more than their national share would pay a fee to countries that emit less than their share.

Do you support such a policy? [Figures 1 and A3]

Strongly oppose; Somewhat oppose; Neither support nor oppose; Somewhat support; Strongly support

- E. [In all countries but the U.S., Denmark and France] Suppose the above policy is in place. How should the carbon budget be divided among countries? [Figures 1 and A3]

The emission share of a country should be proportional to its population, so that each human has an equal right to emit.; The emission share of a country should be proportional to its current emissions, so that those who already emit more have more rights to emit.; Countries that have emitted more over the past decades (from 1990 onwards) should receive a lower

emission share, because they have already used some of their fair share.; Countries that will be hurt more by climate change should receive a higher emission share, to compensate them for the damages.

F. [In the U.S., Denmark, and France only] To achieve a given reduction of greenhouse gas emissions globally, costly investments are needed. Ideally, how should countries bear the costs of fighting climate change?

- Countries should pay in proportion to their income
- Countries should pay in proportion to their current emissions [Used as a substitute to the equal right per capita in Figure 1]
- Countries should pay in proportion to their past emissions (from 1990 onwards) [Used as a substitute to historical responsibilities in Figure 1]
- The richest countries should pay it all, so that the poorest countries do not have to pay anything
- The richest countries should pay even more, to help vulnerable countries face adverse consequences: vulnerable countries would then receive money instead of paying [Used as a substitute to compensating vulnerable countries in Figures 1 and A3]

Strongly disagree; Somewhat disagree; Neither agree nor disagree; Somewhat agree; Strongly agree

G. Do you support or oppose establishing a global democratic assembly whose role would be to draft international treaties against climate change? Each adult across the world would have one vote to elect members of the assembly. [Figures 1 and A3]
Strongly oppose; Somewhat oppose; Neither support nor oppose; Somewhat support; Strongly support

H. Imagine the following policy: a global tax on greenhouse gas emissions funding a global basic income. Such a policy would progressively raise the price of fossil fuels (for example, the price of gasoline would increase by [40 cents per gallon] in the first years). Higher prices would encourage people and companies to use less fossil fuels, reducing greenhouse gas emissions. Revenues from the tax would be used to finance a basic income of [\$30] per month to each human adult, thereby lifting the 700 million people who earn less than \$2/day out of extreme poverty. The average

[American] person would lose a bit from this policy as they would face [\$130] per month in price increases, which is higher than the [\$30] they would receive.

Do you support or oppose such a policy? [Figures 1 and A3]

Strongly oppose; Somewhat oppose; Neither support nor oppose; Somewhat support; Strongly support

- I. Do you support or oppose a tax on all millionaires around the world to finance low-income countries that comply with international standards regarding climate action? This would finance infrastructure and public services such as access to drinking water, healthcare, and education. [Figures 1 and A3]
Strongly oppose; Somewhat oppose; Neither support nor oppose; Somewhat support; Strongly support

D Questionnaire of the complementary surveys

Below, we provide the generic questionnaire (based on the U.S. version), which roughly corresponds to the *Eu* questionnaire as well as the combination of the *US1* and *US2* questionnaire. The main difference between Europe and the U.S. is that we split the *US2* sample into four random branches to include some treatments before the Section D on the GCS. Besides the control group, the treatments are: information regarding the support of Americans for the GCS and NR, an open-ended field, and a closed question on the pros and cons of the GCS. The pros and cons of the GCS are also asked in *Eu* (likewise, either as an open-ended field or a question), but only in Section D, after the support.

At each section or question, we specify in square brackets in which questionnaires it is present (*US1*, *US2* and/or *Eu*) as well as country specificities. Figures A40-A42 also allow understanding the structure of each questionnaire. Qualtrics and Word versions of the questionnaires in each language are available on our [public repository](#), together with a spreadsheet that summarizes country specificities and our sources.

Figure A40: *Eu* survey structure

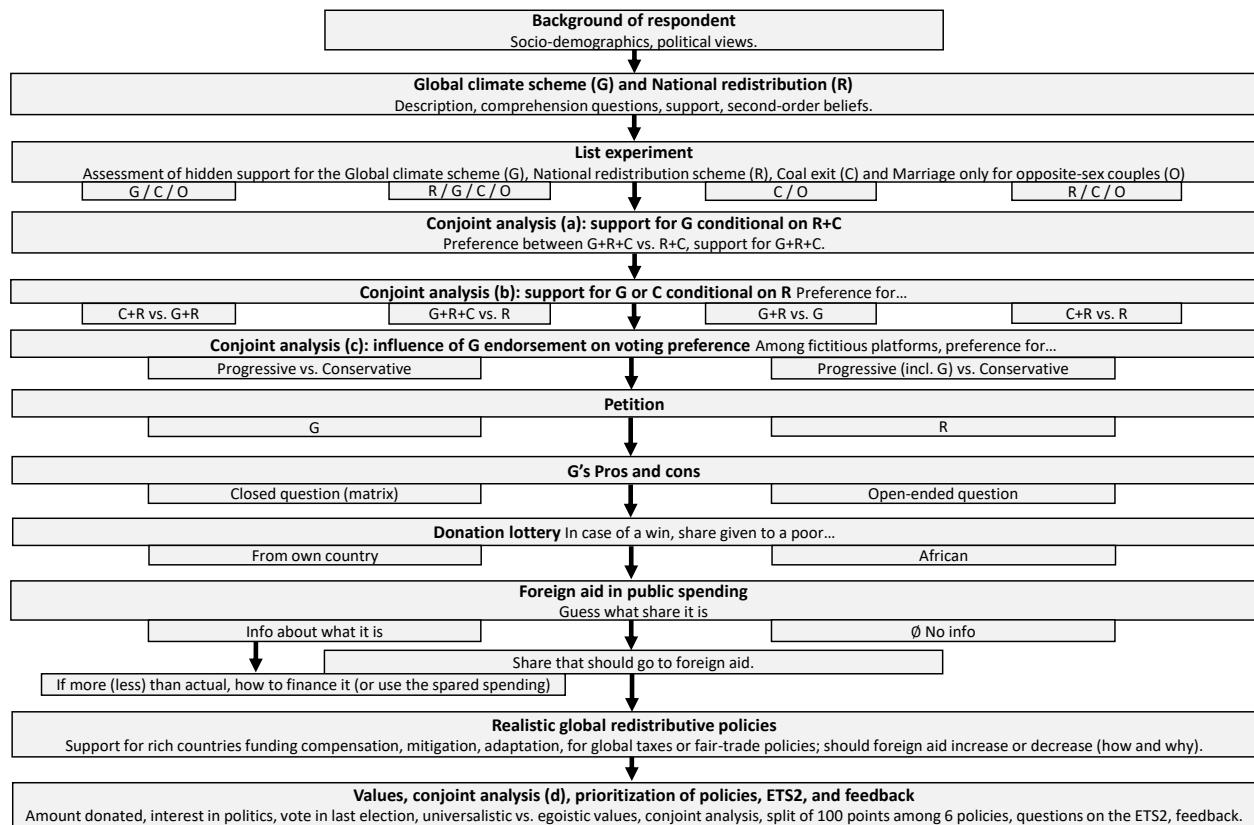


Figure A41: US1 survey structure

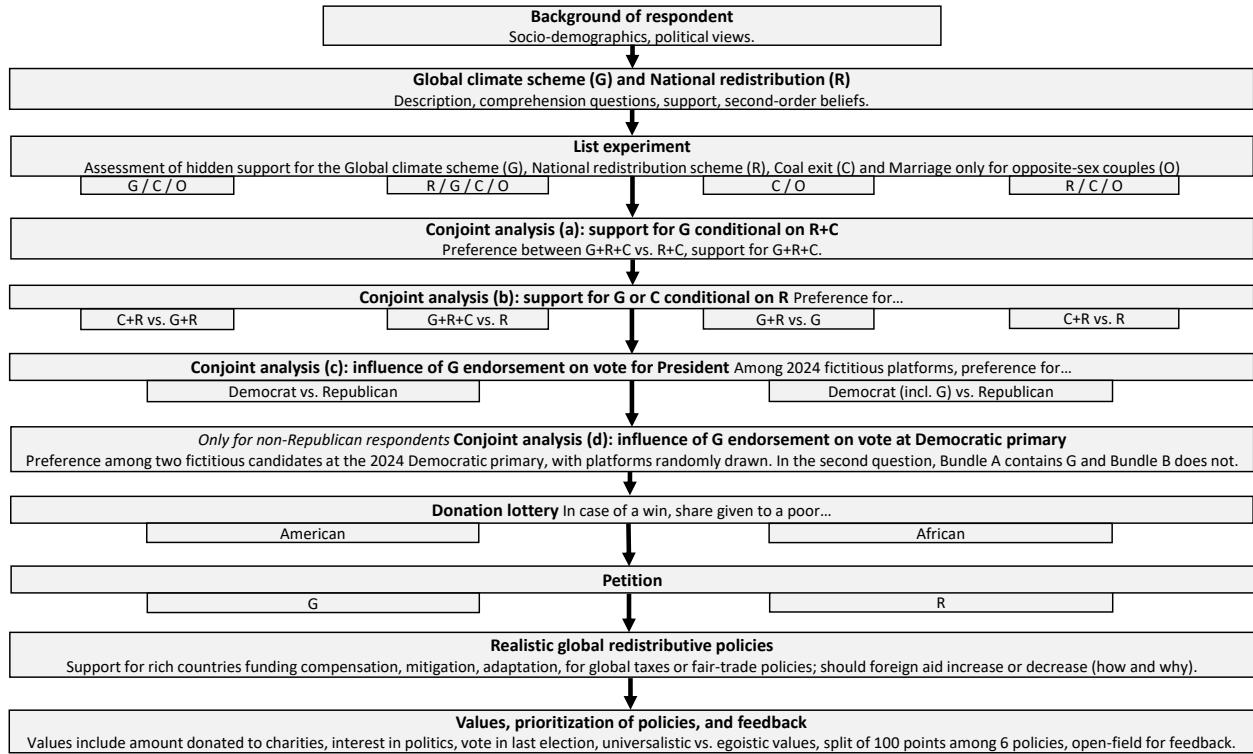
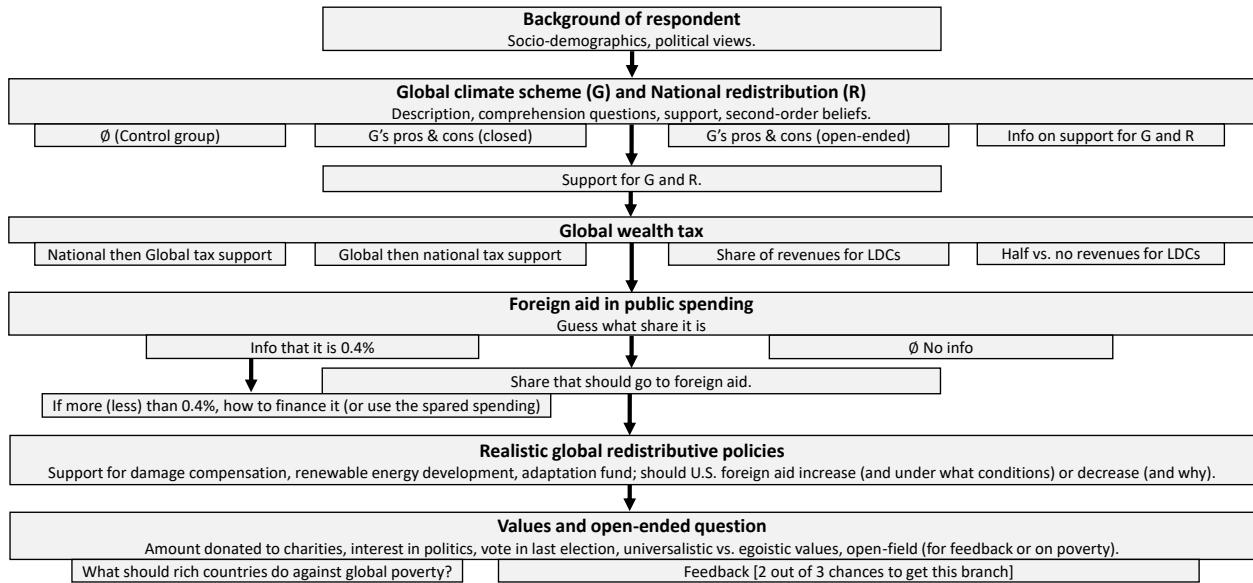


Figure A42: US2 survey structure



[Eu, US1, US2] Socio-demographic characteristics

1. Welcome to this survey!

This survey is **anonymous** and is conducted **for research** purposes on a representative sample of [1,000 British people].

It takes [US1, US2: 10 to 15 min; Eu: around **20 min**] to complete.

The survey contains lotteries and awards for those who get the correct answer to some understanding questions.

If you are attentive and lucky, **you can win up to** [US1, Eu: \$350; US2: \$150] in points. ([See terms and conditions](#)).

Please answer every question carefully.

Do you agree to participate in the survey?

Yes; No

2. What is your gender?

Woman; Man; Other

3. How old are you?

Below 18; 18 to 20; 21 to 24; 25 to 29; 30 to 34; 35 to 39; 40 to 44; 45 to 49; 50 to 54; 55 to 59; 60 to 64; 65 to 69; 70 to 74; 75 to 79; 80 to 84; 85 to 89; 90 to 99; 100 or above

4. [Eu] In which country do you live?

France; Germany; Spain; United Kingdom; Other

5. What is your ZIP code? [UK: What is your Outcode (the left part of your postcode, e.g. if your postcode is N7 8H7, just enter N7)?]

6. Do you live with your partner (if you have one)?

Yes; No

7. How many people are in your household? The household includes: you, the members of your family who live with you, and your dependants.

1; 2; 3; 4; 5 or more

8. [Eu] How many children below 14 live with you?
1; 2; 3; 4 or more
9. [US1, US2] What race or ethnicity do you identify with? (Multiple answers are possible)
White; Black or African American; Hispanic; Asian; American Indian or Alaskan Native; Native Hawaiian or Pacific Islander; Other: {open field}; Prefer not to say
10. What is the [US1, US2: annual; Eu: monthly] gross income of your household (before withholding tax)? This includes all income: wages, self-employment earnings, Social Security benefits, pensions, investment income, welfare payments, and income from other sources.
[US1, US2: Items based on household total income deciles and quartiles, namely:
Less than \$20,000; between \$20,001 and \$35,000; between \$35,001 and \$42,000; between \$42,001 and \$50,000; between \$50,001 and \$65,000; between \$65,001 and \$82,000; between \$82,001 and \$103,000; between \$103,001 and \$130,000; between \$130,001 and \$145,000; between \$145,001 and \$165,000; between \$165,001 and \$250,000; More than \$250,000; I prefer not to answer;
Eu: custom thresholds, taking into account household composition Questions 6-8, and corresponding to the country's deciles and quartiles of standard of living, cf. the sheet "Income" in [this spreadsheet](#)]
11. What is the highest level of education you have completed?
[Below upper secondary, Upper secondary, and Post secondary are coded as the first two, middle three, and last three items, respectively.
US1, US2: Primary school or less; Eighth grade; Some high school; Regular high school diploma/GED or alternative credential; Some college, no degree; 2-year college degree or associates degree (for example: AA, AS); Bachelor's degree (for example: BA, BS); Master's degree or above (MA, MS, MEng, MEd, MSW, MBA, MD, DDS, DVM, LLB, JD, PhD); FR: École primaire / Aucun; Brevet; CAP ou BEP; Baccalauréat professionnel ou technologique; Baccalauréat général; Bac +2 (BTS, DUT, DEUG...); Bac +3 (licence...); Bac +5 ou plus (master, école d'ingénieur ou de commerce, doctorat, médecine, maîtrise, DEA, DESS...)
DE: Keine abgeschlossene Schulbildung / Grundschule; Untere Sekundarstufe (z.B. Haupt- oder Realschulabschluss); Erstausbildung; Beruflicher Abschluss / Ausbildung; Abitur; Zweitausbildung; Bachelor oder Fachhochschulabschluss; Master-Abschluss oder höher

ES: *Educación primaria / No he completado la enseñanza básica; Educación secundaria obligatoria (ESO); Formación profesional básica (FP); Formación profesional de grado medio; Bachillerato; Formación profesional de grado superior; Grado universitario; Máster/doctorado*
UK: *Primary education or less; Some secondary school; GSCE; Vocational Upper secondary (Level 3 award, level 3 certificate, level 3 diploma, advanced apprenticeship, etc.); High school degree (A level); Higher vocational education (Level 4+ award, level 4+ certificate, level 4+ diploma, higher apprenticeship, etc.); Bachelor's Degree (BA, BSc, BEng, etc.); Postgraduate diploma or certificate, Master's Degree (MSc, MA, MBA, etc.) or Ph.D.]*

12. What is your employment status?

Full-time employed; Part-time employed; Self-employed; Student; Retired; Unemployed (searching for a job); Inactive (not searching for a job)

13. Are you a homeowner or a tenant? (Multiple answers are possible)

Tenant; Owner; Landlord renting out property; Hosted free of charge

14. [If lives with partner: What is the estimated value of your household's assets (in U.S. dollars)?

If does not live with partner: What is the estimated value of your assets (in U.S. dollars)?]

Include here all your possessions (home, car, savings, etc.) net of debt. For example, if you own a house worth [\$]300,000 and you have [\$]100,000 left to repay on your mortgage, your assets are [\$]200,000.

I estimate my [If lives with partner: household's] assets net of debt to be:

[Items based on the following individual wealth quintiles, doubled if lives with partner. US1, US2: *Less than \$0 (I have a net debt); Close to \$0; Between \$4,000 and \$60,000; Between \$60,000 and \$190,000; More than \$190,000;* For Eu, the thresholds are: FR: €5/50/150/300k; DE: €0/35/130/280k; ES: €0/50/100/200k; UK: £3/45/115/270k]

15. [US1, US2 (where it is instead asked toward the end, after the vote question)] What do you consider to be your political affiliation, as of today?

Republican; Democrat; Independent; Other; Non-Affiliated

[Eu, US1, US2] Global climate scheme

In the following, we describe two policies, on which we will survey your opinion. To check that you have attentively read the descriptions, **we will ask some understanding questions afterwards: those who get correct answers can win up to \$150.**

Global climate scheme: At the Paris agreement in 2015, all countries have agreed to contain global warming “well below +2 °C”. To limit global warming to this level, **there is a maximum amount of greenhouse gases we can emit globally.**

To meet the climate target, a limited number of permits to emit greenhouse gases can be created globally. Polluting firms would be required to buy permits to cover their emissions. Such a policy would **make fossil fuel companies pay** for their emissions and progressively raise the price of fossil fuels. **Higher prices would encourage people and companies to use less fossil fuels, reducing greenhouse gas emissions.**

In accordance with the principle that each human has an equal right to pollute, the revenues generated by the sale of permits could finance a global basic income. **Each adult in the world would receive [US1, US2: \$30/month; UK: \$30 (that is £25) per month; FR, DE, ES: €30/month]**, thereby lifting out of extreme poverty the 700 million people who earn less than \$2/day.

The typical [American] would lose out financially [US1, US2: \$85, FR: €10, DE: €25, ES: €5, UK: £20] per month (as he or she would face [\$115] per month in price increases, which is higher than the [\$30] they would receive).

The policy could be put in place as soon as countries totaling more than 60% of global emissions agree on it. Countries that would refuse to take part in the policy could face sanctions (like tariffs) from the rest of the World and would be excluded from the basic income.)

16. Who would win or lose financially in the Global climate scheme? [Figure A4]

Three respondents with the expected answer will get [\$]50 in points.

Typical [Americans] would win and the 700 million poorest humans would win.;

Typical [Americans] would win and the 700 million poorest humans would lose.;

Typical [Americans] would lose and the 700 million poorest humans would win.;

Typical [Americans] would lose and the 700 million poorest humans would lose.

[new page] For your information, the expected answer was *Typical [Americans] would lose and*

the 700 million poorest humans would win from the Global climate scheme. Now, here is the second policy:

National redistribution scheme:

This policy would **increase taxes on the top** [US1, US2: 5%; Eu: 1%] and provide cash transfers to all adults. More precisely, **each [American] adult would receive [\$85] per month** (that is [\$1,000] per year). This would be financed by an increase of the federal income tax on household income in excess of [US1, US2: \$315,000 per year; FR: €15,000 per month; DE: €20,000 per month; ES: €10,000 per month; UK: £15,000 per month], leaving taxes unchanged for income below [\$315,000]. [US1, US2: See more details.] ⁹

17. Who would win or lose financially in the National redistribution? [Figure A4]

Three respondents with the expected answer will get [\$]50 in points.

Typical [Americans] would win and the richest [Americans] would win.; Typical [Americans] would win and the richest [Americans] would lose.; Typical [Americans] would lose and the richest [Americans] would win.; Typical [Americans] would lose and the richest [Americans] would lose.

[new page] For your information, the expected answer was *Typical [Americans] would win and the richest [Americans] would lose* from the National redistribution scheme.

To help you with the next question, here is a reminder of the policies:

Global Climate scheme:

To limit global warming and reach the international climate objective, the Global climate scheme would **impose a maximum amount of greenhouse gases we can emit globally**.

⁹8% of U.S. respondents click. They then see the following text, based on taxjusticenow.org by Saez & Zucman (2019): *The marginal income tax rates would evolve as follows:*

Below \$315,000: unchanged

\$315,000 - \$400,000: current rate 32% => new rate 41%

\$400,000 - \$600,000: 35% => 50%

\$600,000 - \$2.5 million: 37% => 60%

\$2.5 - \$5 million: 37% => 65%

Above \$5 million: 37% => 70%

It would **make polluters pay** for their emissions, which in turn would increase fossil fuel prices and discourage polluting activities.

The revenues would finance a **global basic income** of [\$30] per month for all humans, lifting out of extreme poverty the poorest billion people.

Considering the basic income and the fuel price increases, **the typical [American] would lose out financially** [\$85] per month.

National redistribution scheme:

This policy would **increase taxes on the top** [5%] and provide cash transfers to all adults. More precisely, **each [American] would receive** [\$85] per month. This would be financed by an increase of the federal income tax on household income in excess of [\$315,000 per year], leaving taxes unchanged for income below [\$315,000 per year].

18. If both the Global climate scheme and the National redistribution scheme are implemented, how would a typical [American] be financially affected? [*Figure A4*]

Three respondents with the expected answer will get [\$]50 in points.

A typical [American] would lose out financially.; A typical [American] would neither gain nor lose.; A typical [American] would gain financially.

[new page] For your information, the expected answer was that *A typical [American] would neither gain nor lose* from both schemes combined. [*US1, Eu:* Now, here are the last two policies:]

[US1: Coal exit:

To reduce CO₂ emissions, this policy would require all U.S. coal power plants to be phased out by 2030. Coal would be replaced by renewable sources like wind and solar panels as well as stronger reliance on gas power plants.

Eu: Thermal insulation plan:

To reduce CO₂ emissions and energy insecurity, this policy would require that all buildings meet energy efficiency targets: at least rating E in 2030 and rating C in 2040. The [UK] government would subsidise half the cost of insulation for all households, and up to 90% for the poorest households. Insulation work would cost [FR, DE: €25; ES: €20; UK: £25] billion a year, but would deliver energy savings greater than this cost.]

[US1: **Marriage only for opposite-sex couples:**

This policy is a proposed amendment to the U.S. Constitution that would legally define marriage as a union of one man and one woman.

*Eu: **Death penalty for major crimes:***

This measure would reintroduce capital punishment for major crimes such as terrorism and mass shootings.]

Now, we will ask your opinion on the [US1, Eu: four] policies.

[Click here for the reminder of the \[US1, Eu: first\] two policies.](#) [Clicking displays the previous summarized descriptions.]

19. [US2] [4 Random branches: control (*nothing*); Question 31 (*field*); Question 32 (*important*); or the following question (*info*).] For information, a recent survey has shown that:

- 64% of Americans support the Global climate scheme.
- 72% of Americans support the National redistribution scheme.

20. Do you support the Global climate scheme? [Figure 3]

Yes; No

21. [Eu, US1] According to you, what percentage of [Americans] answer Yes to the previous question? [Figure 10]

The three people who are closest to the true value get [\$]50 in panel points.

Percentage of [Americans] in favor of Global climate scheme [slider from 0 to 100]

22. Do you support the National redistribution scheme? [Figure 3]

Yes; No

23. [Eu, US1] According to you, what percentage of [Americans] answer Yes to the previous question? [Figure 10]

The three people who are closest to the true value get [\$]50 in panel points.

Percentage of [Americans] in favor of National redistribution [slider from 0 to 100]

24. [Eu, US1] Beware, this question is quite unusual. Among the policies below, **how many** do you support? [Figure A6, Table 1]

[Four random branches. Branch GCS/NR/C/O]

- Global climate scheme
- National redistribution scheme
- [Coal exit]
- [Marriage only for opposite-sex couples]

0; 1; 2; 3; 4

[Branch GCS/C/O]

- Global climate scheme
- [Coal exit]
- [Marriage only for opposite-sex couples]

0; 1; 2; 3

[Branch NR/C/O]

- National redistribution scheme
- [Coal exit]
- [Marriage only for opposite-sex couples]

0; 1; 2; 3

[Branch C/O]

- [Coal exit]
- [Marriage only for opposite-sex couples]

0; 1; 2

[Eu, US1] Conjoint analyses

25. Among the two following bundles of policies, which one would you prefer? [Figure A7]

Note that for each bundle, all policies of the bundle would be implemented at the same time.

Bundle A	Bundle B
[Coal exit]	[Coal exit]
National redistribution scheme	National redistribution scheme
Global climate scheme	

Bundle A; Bundle B

26. Do you support Bundle A (combining [Coal exit], the National redistribution scheme, and the Global climate scheme)?[Figure 3]

Yes; No

27. [new page] Among the two following bundles of policies, which one would you prefer? [Figure A7]

Note that for each bundle, all policies of the bundle would be implemented at the same time.

[Four random branches. Branch C + NR vs. GCS + NR]

Bundle A	Bundle B
[Coal exit]	Global climate scheme
National redistribution scheme	National redistribution scheme

[Branch NR vs. NR + C + GCS]

Bundle A	Bundle B
National redistribution scheme	National redistribution scheme [Coal exit] Global climate scheme

[Branch NR + GCS vs. NR]

Bundle A	Bundle B
National redistribution scheme Global climate scheme	National redistribution scheme

[Branch NR + C vs. NR]

Bundle A	Bundle B
National redistribution scheme [Coal exit]	National redistribution scheme

Bundle A; Bundle B

28. [new page] [US1: [Asked only to non-Republicans] Imagine if the Democratic and Republican presidential candidates in 2024 campaigned with the following policies in their platforms.

Eu: Imagine if [DE, ES, UK: the two favorite candidates in your constituency in the next general election; FR: the two candidates in the second round of the next presidential election] campaigned with the following policies in their party's platforms.]

Which of these candidates would you vote for? [Table 2, Figure A7]

[Table 2. Two random branches: with and without the final row. The US1 version of the policies is given below, see the sheet "Policies" in [this spreadsheet](#) for the European versions.]

Democrat	Republican
Increase corporate income tax rate from 21% to 28% Coal exit Trillion dollar investment in childcare, healthcare, education and housing \$15 minimum wage National redistribution scheme [Global climate scheme / no row]	Decrease the payroll tax Permit completion of the Keystone pipeline Withdrawal of the Paris agreement Marriage only for opposite-sex couples Strict enforcement of immigration and border legislation [/ no row]

[US1: Democrat; Republican; None of them; Eu: Candidate A; Candidate B; None of them]

29. [new page] [US1: [Asked only to non-Republicans] Imagine if the Democratic and Republican presidential candidates in 2024 campaigned with the following policies in their platforms.

Eu (where it is instead asked toward the end, after the Section “Values and politics”): Imagine that [FR: the left or center-left; DE: a red-red-green coalition; ES: the PSOE; UK: the Labour Party] wins the next [general] elections. Here are two possible platforms on which it may campaign (the policies in each platform are randomly drawn from a pool of credible [FR: left or center-left, DE: left-wing parties’; ES: PSOE; UK: Labour] policies).]

[US1: Which of these candidates do you prefer?

Eu: Even if you [FR: are not from the left or center-left; DE: do not support the left-wing parties; ES: do not support the PSOE; UK: do not support the Labour Party], which of these platforms do you prefer?]

[Figures 8, A8; see also the sheet “Policies” in [this spreadsheet](#) for the possible policies.]

	[Candidate A]	[Candidate B]
[Policy field in random order]	[Random policy]	[Random policy]
[Policy field in random order]	[Random policy]	[Random policy]
[Policy field in random order]	[Random policy]	[Random policy]
[Policy field in random order]	[Random policy]	[Random policy]
[Policy field in random order]	[Random policy]	[Random policy]

[US1: Candidate A; Candidate B; Eu: Platform A; Platform B]

30. [new page] [Same wording and conditions as above. For brevity, only the UK version is given here.] Imagine that the Labour Party wins the next general elections. Here are two possible platforms on which it may campaign (the policies in each platform are randomly drawn from a pool of credible Labour policies).

Even if you do not support the Labour Party, which of these platforms do you prefer? [Figure 8]

	Platform A	Platform B
[Policy field in random order]	[Random policy]	[Random policy]
[Policy field in random order]	[Random policy]	[Random policy]
[Policy field in random order]	[Random policy]	[Random policy]
[Policy field in random order]	[Random policy]	[Random policy]
Foreign policy	Global climate scheme	-

Platform A; Platform B

[Eu, US2] Perceptions of the GCS

[Eu: two random branches. US2: four random branches and the question is asked (if asked) before Question 20]

31. [Branch: field] When thinking about the Global climate scheme, what comes to your mind?

Please list pros and cons of the Global climate scheme. [Figures [A10](#), [A11](#)]
{Open field}

32. [Branch: important] When determining your support or opposition to the Global climate scheme, which points are important to you? [Figure [A9](#)]

- It would succeed in limiting climate change.
- It would hurt the [U.S.] economy.
- It would penalize my household.
- It would make people change their lifestyle.
- It would reduce poverty in low-income countries.
- It might be detrimental to some poor countries.
- It could foster global cooperation.
- It could fuel corruption in low-income countries.
- It could be subject to fraud.
- It would be technically difficult to put in place.
- Having enough information on this scheme and its consequences.

Not at all important; Not so important; Quite important; Very important

[Eu, US1] Donation lottery

33. Please select “A little” (this is a test to see if you are paying attention).
Not at all; A little; A lot; A great deal
34. [Two random branches] By taking this survey, you are automatically entered into a lottery to win [\$]100 in panel points. This lottery is unrelated to the previous ones that rewarded answers’ accuracy. In a few days you will know whether you have been selected in the lottery. The payment will be made to you in the same way as your compensation for this survey, so no further action is required on your part.

Should you be selected in the lottery, you can also donate a part of this additional compensation to [[American] / African] people living in poverty through [US1: the charity GiveDirectly. The charity GiveDirectly; Eu: a charity. We would channel this donation to a charity that] provides small amounts of cash to people in need in [[the U.S] / Africa].

In case you are winner of the lottery, what share of the [\$]100 would you donate to [[American] / African] people living in poverty [US1: through GiveDirectly]? [Figure A12, Table A2]

Amount donated to [[American] / African] people in need (in [\$]) [slider from 0 to 100]

[Eu, US2] Wealth tax

[Four random branches: Question 35 then Question 36 (global first); Question 36 then Question 35 (national first); Question 37 (global share); Question 38 (sharing)]

35. Do you support or oppose a tax on millionaires of all countries to finance low-income countries?

Such tax would finance infrastructure and public services such as access to drinking water, healthcare, and education. [Figures 3, A13]

Strongly oppose; Somewhat oppose; Neither support nor oppose; Somewhat support; Strongly support

36. Do you support or oppose a tax on millionaires in [the U.S.] to finance [US2: affordable housing and universal childcare/pre-K; Eu: finance government hospitals and schools]? [Figures 3, A14]

Strongly oppose; Somewhat oppose; Neither support nor oppose; Somewhat support; Strongly support

37. Imagine a wealth tax on households with net worth above [\$]5 million, enacted in all countries around the world. In [the U.S.], the tax revenues collected would amount to [US2: \$430; FR: €16; DE: €44; ES: €5; UK: £20] billion per year (that is, [US2: 2%; FR: 0.7%; DE: 1.3%; ES: 0.7%; UK: 0.9%] of [U.S.] GDP), while it would amount to [\$]1 billion in all low-income countries taken together (28 countries, home to 700 million people, most of them in Africa).

Each country would retain part of the revenues it collects, and the remaining part would be pooled at the global level to finance infrastructure and public services in low-income countries.

What percentage should be pooled to finance low-income countries (instead of retained in the country's national budget)? [\[Figure A15\]](#)

Percent of global wealth tax that should go to low-income countries [slider from 0 to 100]

38. Imagine a wealth tax on households with net worth above [\$]5 million, enacted in all countries around the world.

In [the U.S.], the tax revenues collected would amount to [US2: \$430; FR: €16; DE: €44; ES: €5; UK: £20] billion per year (that is, [US2: 2%; FR: 0.7%; DE: 1.3%; ES: 0.7%; UK: 0.9%] of [U.S.] GDP), while it would amount to [\$]1 billion in all low-income countries taken together (28 countries, home to 700 million people, most of them in Africa).

Which of the following options would you prefer? [\[Figure A16\]](#)

- The whole wealth tax financing national budgets in each country. For example, in [US2: the U.S., it could finance affordable housing and universal childcare/pre-K.; Eu-UK: the UK, it could finance the National Health Service and state-funded schools].
- Half of the wealth tax financing national budgets in each country, half of it financing low-income countries. For example, it could finance [US2: universal childcare/pre-K in the U.S.; Eu-UK: state-funded schools in the UK] and access to drinking water, healthcare, and education in Africa.

[Eu, US2] Foreign aid

US2 Please select “A little” (this is a test to see if you are paying attention).

Not at all; A little; A lot; A great deal

39. From your best guess, what percentage of [U.S.] government spending is allocated to foreign aid (that is, to reduce poverty in low-income countries)?

For your information, government spending totals [US2: 38%; FR: 55%; DE: 45%; ES: 42%; UK: 41%] of [U.S.] GDP, it includes [US2: federal, State; Eu: national] and local government spending, and apart from foreign aid, it covers the following items: defense, social security (retirement pensions), health [US2: (including Medicare and Medicaid)], welfare benefits [US2: (including food stamps and EITC)], education, roads, justice, other programs [US2: and federal agencies (including in energy, science...)]. [Figure A19]

Less than 0.1%; 0.1% to 0.2%; 0.3% to 0.5%; 0.6% to 1.0%; 1.1% to 1.7%; 1.8% to 2.6%; 2.7% to 4%; 4.1% to 6%; 6.1% to 9%; 9.1% to 13%; 13.1% to 25%; More than 25%

40. [Two random branches: with or without information on actual amount] [Info: Actually, [US1: 0.4%; FR: 0.8%; DE: 1.3%; ES: 0.5%; UK: 1.7%] of [the U.S.] government spending is allocated to foreign aid.]

If you could choose the government spending, what percentage would you allocate to foreign aid? [Figures A17, A18, A20 and A21]

41. [Asked iff branch: Info and preferred foreign aid is strictly greater than actual foreign aid] Your previous answer shows that you would like to increase [U.S.] foreign aid.

How would you like to finance such increase in foreign aid? (Multiple answers possible) [Figure A22]

Lower spending on defense; Lower spending on retirement pensions; Lower spending on healthcare [US2: (Medicare and Medicaid)]; Lower spending on welfare benefits [US2: (like EITC or food stamps)]; Lower spending on education; Lower spending on other programs [US2: and federal agencies]; Higher taxes on the wealthiest; Higher corporate income tax rate; Higher personal income tax rates; Higher public deficit

42. [Asked iff branch: *Info* and preferred foreign aid is strictly lower than actual foreign aid] Your previous answer shows that you would like to reduce [U.S.] foreign aid.

How would you like to use the freed budget? (Multiple answers possible) [*Figure A23*]

Higher spending on defense; Higher spending on retirement pensions; Higher spending on healthcare [US2: (Medicare and Medicaid)]; Higher spending on welfare benefits [US2: (like EITC or food stamps)]; Higher spending on education; lower spending on other programs [US2: and federal agencies]; Lower taxes on the wealthiest; Lower corporate income tax rate; Lower personal income tax rates; Lower public deficit

[Eu, US1] Petition

43. [*Two random branches*] Would you be willing to sign a petition for the [Global climate / National redistribution] scheme? [*Figure A24*]

As soon as the survey is complete, we will send the results to [the U.S. President's office], informing him what share of American people are willing to endorse the [Global climate / National redistribution] scheme. (You will NOT be asked to sign, only your answer here is required and remains anonymous.) Yes; No

[Eu, US1] Other policies

44. The following policies are discussed at international negotiations on how to deal with climate change. [*Figures 2 and A25*]

Do you support or oppose the following policies?

- Payments from high-income countries to compensate low-income countries for climate damages
- High-income countries funding renewable energy in low-income countries
- High-income countries contributing \$100 billion per year to help low-income countries adapt to climate change

Strongly oppose; Somewhat oppose; Neither support nor oppose; Somewhat support; Strongly support

45. Do you support or oppose the following global policies? [Figures 2 and A25]

- Cancellation of low-income countries' public debt
- Democratise international institutions (UN, IMF) by making a country's voting right proportional to its population
- Removing tariffs on imports from low-income countries
- A minimum wage in all countries at 50% of local median wage
- Fight tax evasion by creating a global financial register to record ownership of all assets
- A maximum wealth limit of [US1: \$10 billion; Eu: [€]100 million] for each human

Strongly oppose; Somewhat oppose; Neither support nor oppose; Somewhat support; Strongly support

46. Currently, [US1: 0.4%; FR: 0.8%; DE: 1.3%; ES: 0.5%; UK: 1.7%] of [U.S.] government spending (that is, [US1: 0.2%; FR: 0.4%; DE: 0.6%; ES: 0.2%; UK: 0.7%] of [U.S.] GDP) is spent on foreign aid to reduce poverty in low-income countries. [Figure 5]

Do you support [the U.S.] transferring more money to low-income countries?

Yes, [U.S.] foreign aid should be increased.; Yes, but only if some conditions are met.; No, [U.S.] foreign aid should remain stable.; No, [U.S.] foreign aid should be reduced.

47. [Asked only if *Yes, but only if some conditions are met.* is chosen] What conditions should be required for [the U.S.] to increase its foreign aid? (Multiple answers possible) [Figures 6, A17]

That recipient countries comply with climate targets and human rights.; That recipient countries cooperate to fight illegal migrations.; That other high-income countries also increase their foreign aid.; That this is financed by increased taxes on millionaires.; That we can be sure the aid reaches people in need and money is not diverted.; Other: [open field]

48. [Asked only if *No, [U.S.] foreign aid should remain stable.* or *No, [U.S.] foreign aid should be reduced.* is chosen] Why do you oppose [the U.S.] increasing its foreign aid? (Multiple answers possible) [Figure 7]

Aid perpetuates poverty as it makes people feel less responsible for themselves.; Aid is not effective as most of it is diverted.; Aid is a pressure tactic for high-income countries that

prevents low-income countries from developing freely.; [The U.S.] is not responsible for what happens in other countries.; Charity begins at home: there is already a lot to do to support the American people in need.; Other: [open field]

[Eu, US1, US2] Values and politics

49. [Eu (where it is instead asked at the beginning of Section “Other Policies”), US1] In international climate negotiations, would you prefer [U.S.] diplomats to defend [U.S.] interests or global justice? [Figure A26]
[U.S.] interests, even if it goes against global justice; [U.S.] interests, to the extent it respects global justice; ndifferent or don't know; Global justice, to the extent it respects [U.S.] interests; Global justice, even if it goes against [U.S.] interests
50. How much did you give to charities in 2022? [Figure A31]
I did not make donations to charities last year.; Less than [\$]100.; Between [\$]101 and [\$]500.; Between [\$]501 and [\$]1,000.; Between [\$]1,001 and [\$]5,000.; More than [\$]5,000.
51. To what extent are you interested in politics? [Figure A32]
Not at all; A little; Moderately; A lot; A great deal
52. Where would you rate yourself on a scale of 1 to 5, where 1 means you think the government should do only those things necessary to provide the most basic government functions, and 5 means you think the government should take active steps in every area it can to try and improve the lives of its citizens? [Figure A33]
Desired involvement of government [slider from 1 to 5]
53. **On economic policy matters**, where do you see yourself on a scale of 1 to 5, where 1 is Left (favoring equality and government interventions) and 5 is Right (favoring free competition and little government intervention)? [Figure A34]
Left (1) to Right (5) on economic issues [slider from 1 to 5]
54. Did you vote in the [2020 U.S. presidential] election? [Figure A35]
Yes; No: I didn't have the right to vote in the U.S.; Prefer not to say
55. [If voted: Which candidate did you vote for in the [2020 U.S. presidential] election? If did not vote: Even if you did not vote in the [2020 U.S. presidential] election, please indicate the candidate that you were most likely to have voted for or who represents your views more closely.] [Figure A36]

[US1, US2: Biden; Trump; Jorgensen; Hawkins; Prefer not to say
FR: candidates at the 2022 presidential election
DE: parties with more than 1% of votes at the 2021 federal election and Other
ES: lists with more than 0.9% at the November 2019 general election and Other
UK: parties with more than 0.5% of votes at the 2019 general election and Other]

56. To what extent do you think the following issues are a problem? [Figure A27]

- Income inequality in [the U.S.]
- Climate change
- Global poverty

Not an important issue for me; An issue but there are other priorities; An issue but we already do what we can; An important issue, we should do more; One of the most pressing issue of our time

57. What group do you defend when you vote? [Figure A28]

Sentient beings (humans and animals); Humans; [Eu: Europeans]; [Americans]; People sharing my culture or religion; [US1, US2: My State]; [US1, US2: My town; Eu: My country, region or town]; My relatives and/or colleagues; My family and myself

[Eu, US1] Prioritization

58. In this question, you have 100 points that you can allocate to different policies. The more you give points to a policy, the more you support it.

How do you allocate the points among the following policies? [Figures A29 and A30]

You can adjust the number of points either using the slider or entering the number of your choice on the right-hand-side. **The sum of points must equal exactly 100.** By pushing the last slider to the right, the total will automatically adjust to 100. Please read the 6 options before making your choice.

See the sheet “Policies” in [this spreadsheet](#) for the pool of policies in each country.

[sliders from 0 to 100]

[FR, DE, ES] ETS2

59. Similar to the Global Climate Scheme, the European Climate Scheme would impose a maximum amount of greenhouse gases we can emit across the EU in the buildings and transport sectors. It would make polluters pay for their emissions, which in turn would increase fossil fuel prices and discourage polluting activities. Several options are possible regarding the use of the scheme's revenues:

- Provide an equal cash transfer of €105 per year to each European.
- Provide a country-specific cash transfer to each European, proportional to their country's emissions: people in countries with higher emissions per person (like Germany) would receive more than people in countries with lower emissions (like Romania). For information, people in [Germany] would receive €[FR: 110; DE: 130; ES: 90]/year.
- Finance low-carbon investments: thermal insulation of buildings, switch to clean sources of heating, public transportation, and charging stations for electric vehicles.
- Provide cash transfers to the most vulnerable half of Europeans and finance low-carbon investments.

Do you support or oppose the European Climate Scheme in case the revenue is used to... ?

- Provide an equal cash transfer to each European
- Provide a country-specific cash transfer to each European
- Finance low-carbon investments
- Provide cash transfers for the most vulnerable Europeans and low-carbon investments

Strongly oppose; Somewhat oppose; Neither support nor oppose; Somewhat support; Strongly support

60. [Asked iff none of the four variants of the European Climate Scheme is (somewhat or strongly) supported] Why do you not support a European Climate Scheme? (Multiple answers possible)

I am opposed to climate policy being decided at the EU level, it should be decided at the national level;

I would prefer if the revenues were used in a different way (beyond the four suggestions above) than previously suggested;

I would prefer if decreasing carbon emissions were regulated by other climate policies;

I am generally opposed to additional, or more ambitious, climate policies;

I do not fully understand how the European Climate Scheme is supposed to work;

I don't know

[Eu, US1, US2] Feedback

61. Do you feel that this survey was politically biased? [Figure A37]

Yes, left-wing biased; Yes, right-wing biased; No, I do not feel it was biased

62. [US2 Asked only to one random third of the respondents, instead of the feedback Question 63] According to you, what should high-income countries do to fight extreme poverty in low-income countries? [Figure A38]

{Open field}

63. The survey is nearing completion. You can now enter any comments, thoughts or suggestions in the field below.

{Open field}

64. Lastly, are you interested to be interviewed by a researcher (through videoconferencing) for 30 min?

This is totally optional and will not be rewarded.

Yes; No

E Net gains from the Global Climate Scheme

To specify the GCS, we use the IEA's 2DS scenario (IEA 2017), which is consistent with limiting the global average temperature increase to 2°C with a probability of at least 50%. The paper by Hood (2017) contributing to the Report of the High-Level Commission on Carbon Prices (Stern & Stiglitz 2017) presents a price corridor compatible with this emissions scenario, from which we take the midpoint. The product of these two series provides an estimate of the revenues expected from a global carbon price. We then use the UN median scenario of future population aged over 15 years (*adults*, for short). We derive the basic income that could be paid to all adults by recycling the revenues from the global carbon price: evolving between \$20 and \$30 per month, with a peak in 2030. Accounting for the lower price levels in low-income countries, an additional income of \$30 per month would allow **670 million people** to escape extreme poverty, defined with the threshold of \$2.15 per day in purchasing power parity.¹⁰

To estimate the increase in fossil fuel expenditures (or “cost”) in each country by 2030, we make a key assumption concerning the evolution of the carbon footprints per adult: that they will decrease by the same proportion in each country. We use data from the Global Carbon Project (Peters et al. 2012). In 2030, the average carbon footprint of a country c , e_c , evolves from baseline year b proportionally to the evolution of its adult population $\Delta p_c = p_c^{2030} / p_c^b$. Thus, the global share of country c 's carbon footprint, s_c , is proportional to $\sigma_c = e_c \Delta p_c$, and as countries' shares sum to 1, $s_c = \frac{\sigma_c}{\sum_k \sigma_k}$. Multiplying country c 's emission share with global revenues in 2030, R , and dividing by c 's adult population in year y , yields its average cost per adult: $R \cdot s_c / p_c^y$. Using findings from Ivanova & Wood (2020) for Europe and Fremstad & Paul (2019) for the U.S., we approximate the median cost as 90% of the average cost. Finally, the net gain is given by the basic income (\$30 per month) minus the cost. We provided consistent estimates of net gains in all surveys (using $y = b = 2015$), though in the global survey we gave the average net gains vs. the median ones in the complementary surveys. The latter are shown in Figure A43. For the record, Table A3 also provides an estimate of *average* net gains (computed with $b = 2019$ and $y = 2030$).¹¹

¹⁰By taking the **ratio** of the World Bank series relating the GDP per capita of Sub-Saharan Africa in **PPP** and **nominal**, we obtain the purchasing power of \$1 in this region: \$2.4 in 2019.

¹¹2015 was the last year of data available when the global questionnaire was conceived (OECD data was then used – it does not cover all countries but give identical rounded estimates than those recomputed from the Global Carbon Project data for our complementary surveys). 2030 was chosen as the reference year as it is the date at which global carbon price revenues are expected to peak (and the GCS redistributive effects

Estimates of the net gains from the Global Climate Scheme are necessarily imprecise, given the uncertainties surrounding the carbon price required to achieve emissions reductions as well as each country's trajectory in terms of emissions and population. These values are highly dependent on future (non-price) climate policies, technical progress, and economic growth of each country, which are only partially known. Integrated Assessment Models have been used to derive a Global Energy Assessment (Johansson et al. 2012), a 100% renewable scenario (Greenpeace 2015) as well as Shared Socioeconomic Pathways (SSPs), which include consistent trajectories of population, emissions, and carbon price (Bauer et al. 2017; Fricko et al. 2017; Riahi et al. 2017; van Vuuren et al. 2017). Instead of using some of these modelling trajectories, we relied on a simple and transparent formula, for a number of reasons. First and foremost, those trajectories describe territorial emissions while we need consumption-based emissions to compute the incidence of the GCS. Second, the carbon price is relatively low in trajectories of SSPs that contain global warming below 2°C (less than \$35/tCO₂ in 2030), so we conservatively chose a method yielding a higher carbon price (\$90 in 2030). Third, modelling results are available only for a few macro regions, while we wanted country by country estimates. Finally, we have checked that the emissions per capita given by our method are broadly in line with alternative methods, even if it tends to overestimate net gains in countries which will decarbonize less rapidly than average.¹² For example, although countries' decarbonization plans should realign with the GCS in place, India might still decarbonize less quickly than the European Union, so India's gain and the EU's loss might be overestimated in our computations. For a more sophisticated version of the Global Climate Scheme which includes participation mechanisms preventing middle-income countries (like China) to lose from it and estimations of the Net Present Value by country, see Fabre (2023).

would be largest), and the GCS could not realistically enter into force before that date. In the surveys, we chose $y = b = 2015$ rather than $b = 2019$ and $y = 2030$ to get more conservative estimates of the monthly cost in the U.S. (\$20 higher than the other option) and in Europe (€5 or £10 higher).

¹²Computations with alternative methods can be found on [our public repository](#).

Figure A43: Net gains from the Global Climate Scheme.

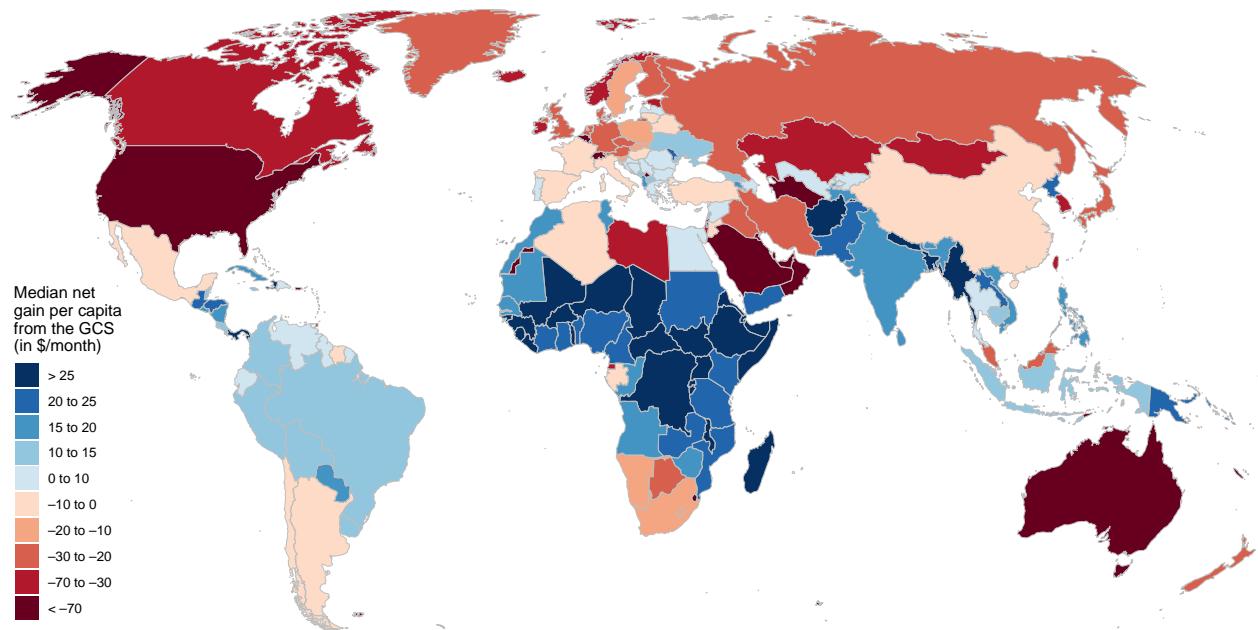


Table A3: Estimated net gain from the GCS in 2030 and carbon footprint by country.

	Mean net gain from the GCS (\$/month)	CO ₂ footprint per adult in 2019 (tCO ₂ /y)			
Saudi Arabia	-92	24.0	Algeria*	-1	6.0
United States	-76	21.0	Mexico	2	5.6
Australia	-59	17.6	Ukraine	2	5.6
Canada	-55	16.7	Uzbekistan*	4	5.1
South Korea	-49	15.6	Argentina	5	4.9
Taiwan	-41	14.0	Thailand	7	4.6
Germany	-30	11.7	Egypt	12	3.6
Russia	-28	11.5	Indonesia	13	3.3
Japan	-27	11.3	Colombia	15	3.0
Malaysia	-21	10.0	Brazil	15	2.9
Iran	-19	9.5	Vietnam	16	2.9
Poland	-18	9.5	Peru	16	2.8
United Kingdom	-18	9.4	Morocco	16	2.7
China	-14	8.6	North Korea*	17	2.5
Italy	-12	8.4	India	18	2.4
South Africa	-11	8.0	Philippines	18	2.3
France	-10	7.8	Pakistan	22	1.6
Iraq*	-7	7.4	Bangladesh	24	1.1
Spain	-6	7.0	Nigeria	25	1.0
Turkey	-2	6.2	Kenya	25	0.9
			Myanmar*	26	0.9
			Sudan*	26	0.9
			Tanzania	27	0.5
			Afghanistan*	27	0.5
			Uganda	28	0.4
			Ethiopia	28	0.3
			Venezuela	29	0.3
			DRC*	30	0.1

Note: Asterisks denote countries where footprint is missing and territorial emissions is used instead. Values differ from Figure A43 as this table present estimates of *mean* net gain per adult in 2030, not at the present. Only the countries with more than 20 million adults (covering 87% of the global total) are shown.

F Determinants of support

Table A4: Determinants of support for the Global Climate Scheme.

	Supports the Global Climate Scheme						
	All	United States	Europe	France	Germany	Spain	United Kingdom
Country: Germany	-0.157*** (0.022)		-0.144*** (0.022)				
Country: Spain	-0.044* (0.024)		-0.026 (0.024)				
Country: United Kingdom	-0.079*** (0.024)		-0.104** (0.023)				
Country: United States	-0.375*** (0.019)						
Income quartile: 2	0.037** (0.017)	0.031 (0.022)	0.038 (0.023)	0.047 (0.043)	0.058 (0.049)	0.013 (0.053)	0.023 (0.043)
Income quartile: 3	0.042** (0.017)	0.033 (0.024)	0.049** (0.024)	0.080** (0.040)	0.059 (0.052)	0.074 (0.056)	-0.052 (0.052)
Income quartile: 4	0.056*** (0.018)	0.062** (0.026)	0.010 (0.026)	0.018 (0.047)	-0.015 (0.055)	-0.001 (0.056)	-0.005 (0.057)
Diploma: Post secondary	0.023* (0.012)	0.032* (0.017)	0.010 (0.018)	0.007 (0.029)	0.045 (0.039)	0.007 (0.039)	-0.010 (0.039)
Age: 25-34	-0.076*** (0.025)	-0.084*** (0.031)	-0.044 (0.035)	-0.031 (0.057)	-0.077 (0.083)	-0.050 (0.066)	-0.103 (0.091)
Age: 35-49	-0.101*** (0.024)	-0.109*** (0.030)	-0.069** (0.034)	-0.094* (0.055)	-0.009 (0.077)	-0.168** (0.070)	-0.050 (0.090)
Age: 50-64	-0.137*** (0.024)	-0.165*** (0.030)	-0.038 (0.035)	-0.039 (0.056)	-0.020 (0.082)	-0.146** (0.067)	-0.017 (0.087)
Age: 65+	-0.116*** (0.028)	-0.142*** (0.034)	-0.056 (0.044)	0.003 (0.076)	-0.045 (0.094)	-0.258*** (0.091)	0.011 (0.105)
Gender: Man	0.019* (0.011)	0.022 (0.015)	-0.010 (0.016)	-0.014 (0.029)	-0.018 (0.033)	0.042 (0.038)	-0.005 (0.034)
Lives with partner	0.029** (0.013)	0.023 (0.017)	0.058*** (0.018)	0.070** (0.033)	0.082** (0.038)	0.017 (0.038)	0.040 (0.039)
Employment status: Retired	-0.020 (0.024)	-0.046 (0.030)	0.056 (0.038)	0.087 (0.081)	0.096 (0.075)	0.040 (0.082)	0.001 (0.073)
Employment status: Student	0.045 (0.033)	0.062 (0.048)	0.101** (0.044)	0.165* (0.085)	0.192** (0.087)	0.116 (0.074)	-0.021 (0.107)
Employment status: Working	-0.016 (0.019)	-0.020 (0.024)	0.011 (0.028)	0.082 (0.064)	0.006 (0.056)	-0.050 (0.056)	0.036 (0.051)
Vote: Center-right or Right	-0.331*** (0.013)	-0.435*** (0.017)	-0.106*** (0.019)	-0.131*** (0.035)	-0.004 (0.044)	-0.114*** (0.038)	-0.081** (0.041)
Vote: PNR/Non-voter	-0.184*** (0.016)	-0.198*** (0.022)	-0.136*** (0.021)	-0.196*** (0.039)	-0.034 (0.043)	-0.116** (0.046)	-0.108*** (0.040)
Vote: Far right	-0.396*** (0.032)		-0.308*** (0.033)	-0.493*** (0.064)	-0.168*** (0.051)	-0.130 (0.102)	-0.314*** (0.080)
Urban	0.049*** (0.012)	0.072*** (0.018)	0.006 (0.016)	-0.002 (0.029)	0.019 (0.032)	-0.014 (0.036)	0.017 (0.033)
Race: White		-0.030 (0.019)					
Region: Northeast		0.010 (0.023)					
Region: South		0.006 (0.020)					
Region: West		0.010 (0.022)					
Swing State		-0.038** (0.019)					
Constant	1.048	0.736	0.89	0.7	0.732	0.935	0.886
Observations	7,986	4,992	2,994	977	727	748	542
R ²	0.160	0.181	0.064	0.116	0.067	0.043	0.063

Note:

*p<0.1; **p<0.05; ***p<0.01

G Representativeness of the surveys

Table A5: Sample representativeness of the complementary surveys.

	US1			US2			Eu		
	Pop.	Sample	Weighted sample	Pop.	Sample	Weighted sample	Pop.	Sample	Weighted sample
Sample size		3,000	3,000		2,000	2,000		3,000	3,000
Gender: Woman	0.51	0.52	0.51	0.51	0.45	0.50	0.51	0.49	0.51
Gender: Man	0.49	0.47	0.49	0.49	0.55	0.50	0.49	0.51	0.49
Income_quartile: 1	0.25	0.27	0.25	0.25	0.28	0.25	0.25	0.28	0.25
Income_quartile: 2	0.25	0.24	0.25	0.25	0.23	0.25	0.25	0.23	0.25
Income_quartile: 3	0.25	0.25	0.25	0.25	0.26	0.25	0.25	0.25	0.25
Income_quartile: 4	0.25	0.23	0.25	0.25	0.22	0.25	0.25	0.24	0.25
Age: 18-24	0.12	0.12	0.12	0.12	0.12	0.12	0.10	0.11	0.10
Age: 25-34	0.18	0.15	0.18	0.18	0.16	0.18	0.15	0.17	0.15
Age: 35-49	0.24	0.25	0.24	0.24	0.25	0.24	0.24	0.25	0.24
Age: 50-64	0.25	0.27	0.25	0.25	0.25	0.25	0.26	0.24	0.26
Age: 65+	0.21	0.21	0.21	0.21	0.22	0.21	0.25	0.23	0.25
Diploma_25_64: Below upper secondary	0.06	0.02	0.05	0.06	0.04	0.05	0.13	0.14	0.13
Diploma_25_64: Upper secondary	0.28	0.25	0.28	0.28	0.29	0.28	0.23	0.19	0.23
Diploma_25_64: Post secondary	0.34	0.40	0.34	0.34	0.33	0.34	0.29	0.33	0.29
Race: White only	0.60	0.67	0.61	0.60	0.62	0.61			
Race: Hispanic	0.18	0.15	0.19	0.18	0.19	0.19			
Race: Black	0.13	0.16	0.14	0.13	0.17	0.14			
Region: Northeast	0.17	0.20	0.17	0.17	0.19	0.17			
Region: Midwest	0.21	0.22	0.21	0.21	0.23	0.21			
Region: South	0.38	0.39	0.38	0.38	0.38	0.38			
Region: West	0.24	0.20	0.24	0.24	0.20	0.24			
Urban: TRUE	0.73	0.78	0.74	0.73	0.75	0.73			
Employment_18_64: Inactive	0.20	0.16	0.16	0.20	0.15	0.15	0.17	0.15	0.15
Employment_18_64: Unemployed	0.02	0.07	0.08	0.02	0.09	0.08	0.03	0.06	0.05
Vote: Left	0.32	0.47	0.45	0.32	0.46	0.45	0.30	0.32	0.32
Vote: Center-right or Right	0.30	0.31	0.31	0.30	0.29	0.29	0.28	0.32	0.32
Vote: Far right							0.10	0.10	0.10
Country: FR							0.24	0.24	0.24
Country: DE							0.33	0.33	0.33
Country: ES							0.18	0.18	0.18
Country: UK							0.25	0.25	0.25
Urbanity: Cities							0.43	0.49	0.43
Urbanity: Towns and suburbs							0.33	0.32	0.33
Urbanity: Rural							0.25	0.20	0.25

Note: This table displays summary statistics of the samples alongside actual population frequencies. Detailed sources for each variable and country population frequencies, as well as the definitions of regions, diploma, urbanity, employment, and vote are available in [this spreadsheet](#).

Table A6: Sample representativeness for each European country.

	FR			DE			ES			UK		
	Pop.	Sam.	Wght. sam.									
Sample size		729	729		979	979		543	543		749	749
Gender: Woman	0.52	0.50	0.52	0.51	0.52	0.51	0.51	0.53	0.51	0.50	0.43	0.50
Gender: Man	0.48	0.50	0.48	0.49	0.48	0.49	0.49	0.47	0.49	0.50	0.57	0.50
Income_quartile: 1	0.25	0.31	0.25	0.25	0.29	0.25	0.25	0.27	0.25	0.25	0.26	0.25
Income_quartile: 2	0.25	0.17	0.25	0.25	0.25	0.25	0.25	0.31	0.25	0.25	0.19	0.25
Income_quartile: 3	0.25	0.19	0.25	0.25	0.28	0.25	0.25	0.26	0.25	0.25	0.26	0.25
Income_quartile: 4	0.25	0.33	0.25	0.25	0.18	0.25	0.25	0.17	0.25	0.25	0.28	0.25
Age: 18-24	0.12	0.12	0.12	0.09	0.14	0.09	0.08	0.09	0.08	0.10	0.07	0.10
Age: 25-34	0.15	0.14	0.15	0.15	0.17	0.15	0.12	0.16	0.12	0.17	0.20	0.17
Age: 35-49	0.24	0.31	0.24	0.22	0.26	0.22	0.28	0.25	0.28	0.24	0.18	0.24
Age: 50-64	0.24	0.19	0.24	0.28	0.23	0.28	0.27	0.28	0.27	0.25	0.30	0.25
Age: 65+	0.25	0.24	0.25	0.26	0.21	0.26	0.25	0.22	0.25	0.24	0.25	0.24
Diploma_25_64: Below upper secondary	0.11	0.19	0.11	0.10	0.14	0.10	0.24	0.16	0.25	0.12	0.09	0.12
Diploma_25_64: Upper secondary	0.26	0.16	0.26	0.27	0.20	0.27	0.16	0.15	0.16	0.21	0.23	0.21
Diploma_25_64: Post secondary	0.26	0.30	0.26	0.29	0.31	0.29	0.28	0.38	0.27	0.33	0.36	0.33
Urbanity: Cities	0.47	0.52	0.47	0.37	0.47	0.37	0.52	0.58	0.52	0.40	0.41	0.40
Urbanity: Towns and suburbs	0.19	0.19	0.19	0.40	0.35	0.40	0.22	0.27	0.22	0.42	0.43	0.42
Urbanity: Rural	0.34	0.29	0.34	0.23	0.18	0.23	0.26	0.15	0.26	0.18	0.16	0.18
Employment_18-64: Inactive	0.20	0.19	0.18	0.15	0.14	0.11	0.20	0.13	0.12	0.16	0.16	0.17
Employment_18-64: Unemployed	0.04	0.05	0.05	0.02	0.04	0.03	0.07	0.11	0.12	0.02	0.03	0.04
Vote: Left	0.23	0.19	0.21	0.37	0.44	0.44	0.33	0.37	0.38	0.25	0.28	0.29
Vote: Center-right or Right	0.26	0.30	0.29	0.28	0.27	0.29	0.18	0.24	0.24	0.36	0.44	0.41
Vote: Far right	0.23	0.22	0.22	0.08	0.07	0.07	0.09	0.08	0.09	0.01	0.03	0.03

Note: This table displays summary statistics of the samples alongside actual population frequencies. In this Table, weights are defined at the country level. Detailed sources for each variable and country population frequencies, as well as the definitions of regions, diploma, urbanity, employment, and vote are available in [this spreadsheet](#).

Similar tables for the global surveys can be found in [Dechezleprêtre et al. \(2022\)](#).

H Attrition analysis

Table A7: Attrition analysis for the US1 survey.

	Dropped out	Dropped out after socio-eco	Failed attention test	Duration (in min)	Duration below 4 min
	(1)	(2)	(3)	(4)	(5)
Mean	0.08	0.059	0.082	21.198	0.016
Income quartile: 2	0.025*** (0.010)	0.025*** (0.010)	0.000 (0.000)	-0.740 (3.064)	-0.009 (0.006)
Income quartile: 3	0.062*** (0.012)	0.062*** (0.012)	0.000*** (0.000)	0.754 (2.813)	-0.004 (0.007)
Income quartile: 4	0.035*** (0.011)	0.035*** (0.011)	-0.000*** (0.000)	-3.917 (2.798)	-0.003 (0.007)
Diploma: Post secondary	0.039*** (0.009)	0.039*** (0.009)	-0.000*** (0.000)	1.544 (2.665)	0.006 (0.006)
Age: 25-34	-0.094*** (0.015)	-0.094*** (0.015)	-0.000*** (0.000)	-0.597 (2.604)	-0.031** (0.013)
Age: 35-49	-0.100*** (0.015)	-0.100*** (0.015)	-0.000*** (0.000)	4.824 (3.176)	-0.032** (0.013)
Age: 50-64	-0.060*** (0.015)	-0.060*** (0.015)	0.000*** (0.000)	5.723** (2.763)	-0.039*** (0.012)
Age: 65+	0.048*** (0.017)	0.048*** (0.017)	0.000** (0.000)	8.952** (4.267)	-0.047*** (0.012)
Gender: Man	-0.039*** (0.007)	-0.039*** (0.007)	-0.000* (0.000)	-0.451 (2.210)	-0.0001 (0.005)
Urban	0.006 (0.008)	0.006 (0.008)	-0.000*** (0.000)	4.888** (2.443)	-0.004 (0.006)
Race: Black	0.020** (0.010)	0.020** (0.010)	-0.000*** (0.000)	8.554*** (2.600)	0.004 (0.007)
Race: Hispanic	0.021** (0.010)	0.021** (0.010)	-0.000*** (0.000)	4.119* (2.293)	-0.002 (0.007)
Region: Northeast	-0.005 (0.011)	-0.005 (0.011)	-0.000*** (0.000)	-4.862 (4.782)	-0.004 (0.007)
Region: South	-0.009 (0.009)	-0.009 (0.009)	-0.000 (0.000)	-1.151 (4.710)	-0.004 (0.006)
Region: West	0.006 (0.011)	0.006 (0.011)	0.000*** (0.000)	-4.000 (4.305)	-0.003 (0.007)
Vote: Biden	-0.048*** (0.008)	-0.048*** (0.008)	0.000*** (0.000)	-2.901 (2.379)	-0.009 (0.007)
Vote: Trump	-0.043*** (0.009)	-0.043*** (0.009)	-0.000 (0.000)	0.145 (2.878)	-0.005 (0.008)
Observations	5,719	5,719	3,252	3,044	3,044
R ²	0.127	0.127	1.000	0.006	0.017

Table A8: Attrition analysis for the US2 survey.

	Dropped out (1)	Dropped out after socio-eco (2)	Failed attention test (3)	Duration (in min) (4)	Duration below 4 min (5)
Mean	0.095	0.074	0.092	16.338	0.052
Income quartile: 2	0.023* (0.013)	0.023* (0.013)	-0.000** (0.000)	1.352 (1.601)	-0.029** (0.014)
Income quartile: 3	0.054*** (0.014)	0.054*** (0.014)	-0.000 (0.000)	8.502 (9.649)	-0.009 (0.016)
Income quartile: 4	0.060*** (0.016)	0.060*** (0.016)	-0.000 (0.000)	5.254 (3.376)	0.0003 (0.017)
Diploma: Post secondary	-0.033*** (0.011)	-0.033*** (0.011)	0.000 (0.000)	1.601 (2.630)	0.012 (0.011)
Age: 25-34	-0.004 (0.015)	-0.004 (0.015)	0.000 (0.000)	-0.929 (1.535)	-0.032 (0.024)
Age: 35-49	0.012 (0.014)	0.012 (0.014)	0.000*** (0.000)	9.076 (6.651)	-0.047** (0.022)
Age: 50-64	0.040*** (0.014)	0.040*** (0.014)	-0.000*** (0.000)	0.364 (1.565)	-0.079*** (0.022)
Age: 65+	0.115*** (0.017)	0.115*** (0.017)	-0.000*** (0.000)	2.619 (3.150)	-0.095*** (0.022)
Gender: Man	-0.073*** (0.009)	-0.073*** (0.009)	0.000 (0.000)	4.707 (6.037)	0.010 (0.010)
Urban	0.019* (0.011)	0.019* (0.011)	0.000*** (0.000)	1.766 (1.135)	0.005 (0.012)
Race: Black	0.060*** (0.015)	0.060*** (0.015)	0.000*** (0.000)	18.673 (13.328)	-0.010 (0.015)
Race: Hispanic	0.079*** (0.014)	0.079*** (0.014)	-0.000 (0.000)	2.930 (1.813)	-0.027** (0.012)
Region: Northeast	-0.026* (0.014)	-0.026* (0.014)	0.000 (0.000)	-0.837 (2.855)	-0.011 (0.015)
Region: South	-0.006 (0.012)	-0.006 (0.012)	-0.000 (0.000)	3.220 (5.002)	0.009 (0.014)
Region: West	-0.010 (0.013)	-0.010 (0.013)	0.000 (0.000)	-1.759 (1.942)	-0.009 (0.015)
Vote: Biden	-0.049*** (0.008)	-0.049*** (0.008)	-0.000*** (0.000)	3.230 (2.731)	-0.006 (0.014)
Vote: Trump	-0.026*** (0.009)	-0.026*** (0.009)	-0.000 (0.000)	-0.554 (1.272)	0.007 (0.016)
Observations	2,973	2,973	2,280	2,103	2,103
R ²	0.241	0.241	1.000	0.010	0.031

Table A9: Attrition analysis for the Eu survey.

	Dropped out (1)	Dropped out after socio-eco (2)	Failed attention test (3)	Duration (in min) (4)	Duration below 6 min (5)
Mean	0.067	0.044	0.151	54.602	0.039
Country: Germany	0.023** (0.010)	0.019** (0.010)	0.000*** (0.000)	9.533 (18.906)	0.019* (0.010)
Country: Spain	-0.102*** (0.011)	-0.098*** (0.011)	0.000* (0.000)	-29.136* (15.948)	0.010 (0.010)
Country: United Kingdom	0.042*** (0.011)	0.043*** (0.011)	0.000*** (0.000)	-7.458 (18.046)	0.010 (0.010)
Income quartile: 2	0.032*** (0.010)	0.029*** (0.010)	0.000 (0.000)	32.749* (19.771)	-0.015 (0.010)
Income quartile: 3	0.049*** (0.010)	0.047*** (0.010)	0.000*** (0.000)	6.130 (11.734)	-0.021** (0.010)
Income quartile: 4	0.024** (0.011)	0.021* (0.011)	0.000*** (0.000)	18.659 (19.955)	-0.018* (0.011)
Diploma: Post secondary	0.035*** (0.008)	0.034*** (0.008)	0.000*** (0.000)	10.647 (12.959)	-0.007 (0.007)
Age: 25-34	0.028** (0.013)	0.025* (0.013)	-0.000*** (0.000)	36.132 (22.285)	-0.005 (0.018)
Age: 35-49	0.064*** (0.012)	0.062*** (0.012)	-0.000*** (0.000)	37.159** (17.190)	-0.013 (0.016)
Age: 50-64	0.085*** (0.013)	0.083*** (0.013)	-0.000 (0.000)	48.363** (22.526)	-0.063*** (0.015)
Age: 65+	0.117*** (0.014)	0.115*** (0.013)	-0.000** (0.000)	36.351** (14.226)	-0.061*** (0.015)
Gender: Man	-0.027*** (0.007)	-0.027*** (0.007)	-0.000* (0.000)	-22.980 (14.093)	0.009 (0.007)
Degree of urbanization: Towns and suburbs	0.006 (0.008)	0.004 (0.008)	0.000*** (0.000)	-16.736 (17.256)	0.004 (0.008)
Degree of urbanization: Rural	0.023** (0.009)	0.023** (0.009)	0.000 (0.000)	-14.593 (19.733)	-0.001 (0.009)
Vote: Center-right or Right	-0.025*** (0.005)	-0.025*** (0.005)	0.000*** (0.000)	-17.558 (13.143)	0.019** (0.008)
Vote: Far right	0.005 (0.007)	0.005 (0.007)	0.000*** (0.000)	15.838 (32.281)	0.029** (0.014)
Vote: PNR/Non-voter	0.023*** (0.006)	0.022*** (0.005)	0.000 (0.000)	24.631 (19.824)	0.030*** (0.010)
Observations	3,963	3,963	3,326	3,115	3,115
R ²	0.406	0.395	1.000	0.006	0.028

Bibliography

- A. Agarwal & S. Narain. Global Warming in an Unequal World: A Case of Environmental Colonialism. Technical report, India Centre for Science and Environment, 1991. [Link](#). 18
- M. Aklin & M. Mildenberger. Prisoners of the Wrong Dilemma: Why Distributive Conflict, Not Collective Action, Characterizes the Politics of Climate Change. *Global Environmental Politics*, 2020. [Link](#). 17
- F. H. Allport. *Social Psychology*. Journal of Philosophy Inc, 1924. 17
- A. Alsamawi, J. Murray, & M. Lenzen. The Employment Footprints of Nations. *Journal of Industrial Ecology*, 2014. [Link](#). 24
- Americans for Tax Fairness. Support for Biden's Tax and Economic Plans. Technical report, 2021. [Link](#). 16
- P. Andre, T. Boneva, F. Chopra, & A. Falk. Misperceived Social Norms and Willingness to Act Against Climate Change. 2022. 17
- D. Archibugi, M. Koenig-Archibugi, & R. Marchetti. *Global Democracy: Normative and Empirical Perspectives*. Cambridge University Press, 2011. [Link](#). 26
- E. Arghiri. *Unequal Exchange: A Study of the Imperialism in Trade*. 1972. 24
- T. Athanasiou, C. Holz, & S. Kartha. Fair Shares – Lessons from Practice, Thoughts on Strategy. 2022. 21, 22, 23
- P. Baer, J. Harte, B. Haya, A. V. Herzog, J. Holdren, N. E. Hultman, D. M. Kammen, R. B. Norgaard, & L. Raymond. Equity and Greenhouse Gas Responsibility. *Science*, 2000. [Link](#). 18
- P. Baer, G. Fieldman, T. Athanasiou, & S. Kartha. Greenhouse Development Rights: Towards an equitable framework for global climate policy. *Cambridge Review of International Affairs*, 2008. [Link](#). 20, 21
- F. Bastagli, J. Hagen-Zanker, L. Harman, V. Barca, G. Sturge, & T. Schmidt. Cash transfers: What does the evidence say? Technical report, ODI, 2016. 25

N. Bauer, K. Calvin, J. Emmerling, O. Fricko, S. Fujimori, J. Hilaire, J. Eom, V. Krey, E. Kriegler, I. Mouratiadou, H. Sytze de Boer, M. van den Berg, S. Carrara, V. Daioglou, L. Drouet, J. E. Edmonds, D. Gernaat, P. Havlik, N. Johnson, D. Klein, P. Kyle, G. Marangoni, T. Masui, R. C. Pietzcker, M. Strubegger, M. Wise, K. Riahi, & D. P. van Vuuren. Shared Socio-Economic Pathways of the Energy Sector – Quantifying the Narratives. *Global Environmental Change*, 2017. [Link](#). 77

M. Bauhr, N. Charron, & N. Nasiritousi. Does Corruption Cause Aid Fatigue? Public Opinion and the Aid-Corruption Paradox. *International Studies Quarterly*, 2013. [Link](#). 15

A. B. Bayram. What drives modern Diogenes? Individual values and cosmopolitan allegiance. *European Journal of International Relations*, 2015. [Link](#). 16

A. B. Bayram. Aiding Strangers: Generalized Trust and the Moral Basis of Public Support for Foreign Development Aid. *Foreign Policy Analysis*, 2017. [Link](#). 15

M. M. Bechtel & K. F. Scheve. Mass support for global climate agreements depends on institutional design. *Proceedings of the National Academy of Sciences*, 2013. [Link](#). 13

L. F. Beiser-McGrath & T. Bernauer. Commitment failures are unlikely to undermine public support for the Paris agreement. *Nature Climate Change*, 2019. [Link](#). 17

L. F. Beiser-McGrath & T. Bernauer. Could revenue recycling make effective carbon taxation politically feasible? *Science Advances*, 2019. [Link](#). 11

T. Bernauer & R. Gampfer. How robust is public support for unilateral climate policy? *Environmental Science & Policy*, 2015. [Link](#). 17

G. Bertram. Tradeable emission permits and the control of greenhouse gases. *The Journal of Development Studies*, 1992. [Link](#). 18

O. Blanchard & J. Tirole. Major Future Economic Challenges. 2021. [Link](#). 18

T. Bodenstein & J. Faust. Who Cares? European Public Opinion on Foreign Aid and Political Conditionality. *JCMS: Journal of Common Market Studies*, 2017. [Link](#). 15

K. B. Bolch, L. Ceriani, & L. F. López-Calva. The arithmetics and politics of domestic resource mobilization for poverty eradication. *World Development*, 2022. [Link](#). 24

- A. W. Cappelen, B. Enke, & B. Tungodden. Universalism: Global Evidence, 2022. [Link](#). 16
- S. Carattini, S. Kallbekken, & A. Orlov. How to win public support for a global carbon tax. *Nature*, 2019. [Link](#). 11
- F. Carlsson, M. Kataria, E. Lampi, Å. Löfgren, & T. Sterner. Is fairness blind?—The effect of framing on preferences for effort-sharing rules. *Ecological Economics*, 2011. [Link](#). 13
- F. Carlsson, M. Kataria, A. Krupnick, E. Lampi, Å. Löfgren, P. Qin, & T. Sterner. A fair share: Burden-sharing preferences in the United States and China. *Resource and Energy Economics*, 2013. [Link](#). 13
- L. Chancel & T. Piketty. Carbon and inequality: From Kyoto to Paris. 2015. 19
- T. L. Cherry, S. Kallbekken, & S. Kroll. Accepting market failure: Cultural worldviews and the opposition to corrective environmental policies. *Journal of Environmental Economics and Management*, 2017. [Link](#). 16
- P. Cramton, A. Ockenfels, & S. Stoft. An International Carbon-Price Commitment Promotes Cooperation. *Economics of Energy & Environmental Policy*, 2015. [Link](#). 18
- E. Dabla-Norris, T. Helbling, S. Khalid, H. Khan, G. Magistretti, A. Sollaci, & K. Srinivasan. Public Perceptions of Climate Mitigation Policies: Evidence from Cross-Country Surveys. *Staff Discussion Notes*, 2023. [Link](#). 14
- A. Dechezleprêtre, A. Fabre, T. Kruse, B. Planterose, A. Sanchez Chico, & S. Stantcheva. Fighting climate change: International attitudes toward climate policies. *NBER Working Paper*, 2022. [Link](#). 3, 27, 82
- D. f. I. D. DFID. *Aid under Pressure: Support for Development Assistance in a Global Economic Downturn, Fourth Report of Session 2008-09, Vol. 1: Report, Together with Formal Minutes*. The Stationery Office, 2009. ISBN 978-0-215-53050-9. 15
- S. Drews, I. Savin, & J. C. J. M. van den Bergh. Biased perceptions of other people's attitudes to carbon taxation. *Energy Policy*, 2022. [Link](#). 17
- D. Egger, J. Haushofer, E. Miguel, P. Niehaus, & M. Walker. General Equilibrium Effects of Cash Transfers: Experimental Evidence From Kenya. *Econometrica*, 2022. [Link](#). 25

- A. Einstein. To the General Assembly of the United Nations, 1947. [26](#)
- B. Enke, R. Fisman, L. Mota Freitas, & S. Sun. Universalism and Political Representation: Evidence from the Field, 2023. [Link](#). [16](#)
- B. Enke, R. Rodríguez-Padilla, & F. Zimmermann. Moral universalism and the structure of ideology. *Review of Economic Studies*, 2023. [16](#)
- B. Enke, R. Rodríguez-Padilla, & F. Zimmermann. Moral Universalism: Measurement and Economic Relevance. *Management Science*, 2023. [16](#)
- A. Fabre. The Global Climate Plan – Policy Brief. Technical report, Global Redistribution Advocates, 2023. [Link](#). [77](#)
- A. L. Fanning & J. Hickel. Compensation for atmospheric appropriation. *Nature Sustainability*, 2023. [Link](#). [20](#)
- D. Fehr, J. Mollerstrom, & R. Perez-Truglia. Your Place in the World: Relative Income and Global Inequality. *American Economic Journal: Economic Policy*, 2022. [Link](#). [12](#)
- R. Fisman, K. Gladstone, I. Kuziemko, & S. Naidu. Do Americans Want to Tax Capital? Evidence from Online Surveys. Working Paper 23907, National Bureau of Economic Research, 2017. [Link](#). [15](#)
- M. Fleurbaey & S. Zuber. Climate Policies Deserve a Negative Discount Rate. *Chicago Journal of International Law*, 2013. [Link](#). [19](#)
- A. Fremstad & M. Paul. The Impact of a Carbon Tax on Inequality. *Ecological Economics*, 2019. [Link](#). [76](#)
- O. Fricko, P. Havlik, J. Rogelj, Z. Klimont, M. Gusti, N. Johnson, P. Kolp, M. Strubegger, H. Valin, M. Amann, T. Ermolieva, N. Forsell, M. Herrero, C. Heyes, G. Kindermann, V. Krey, D. L. McCollum, M. Obersteiner, S. Pachauri, S. Rao, E. Schmid, W. Schoepp, & K. Riahi. The marker quantification of the Shared Socioeconomic Pathway 2: A middle-of-the-road scenario for the 21st century. *Global Environmental Change*, 2017. [Link](#). [77](#)
- I. Gallup. Seventy Years of U.S. Public Opinion on the United Nations, 1946. [Link](#). [11](#)
- S. Gangopadhyay, R. Lensink, & B. Yadav. Cash or In-kind Transfers? Evidence from a Randomised Controlled Trial in Delhi, India. *The Journal of Development Studies*, 2015. [Link](#). [25](#)

G. Gao, M. Chen, J. Wang, K. Yang, Y. Xian, X. Shi, & K. Wang. Sufficient or insufficient: Assessment of the intended nationally determined contributions (INDCs) of the world's major greenhouse gas emitters. *Frontiers of Engineering Management*, 2019. [Link](#). 24

N. Geiger & J. K. Swim. Climate of silence: Pluralistic ignorance as a barrier to climate change discussion. *Journal of Environmental Psychology*, 2016. [Link](#). 17

F. Ghassim. *Who on Earth Wants Global Democracy – and Why (Not)? A Theoretical and Experimental Study of International Public Opinion*. PhD thesis, University of Oxford, 2020. [Link](#). 11

F. Ghassim, M. Koenig-Archibugi, & L. Cabrera. Public Opinion on Institutional Designs for the United Nations: An International Survey Experiment. *International Studies Quarterly*, 2022. [Link](#). 11

R. Gignac & H. D. Matthews. Allocating a 2 °C cumulative carbon budget to countries. *Environmental Research Letters*, 2015. [Link](#). 24

M. Gilens. Political Ignorance and Collective Policy Preferences. *American Political Science Review*, 2001. [Link](#). 14

. Global Assembly. Report of the 2021 Global Assembly on the Climate and Ecological Crisis. Technical report, 2022. [Link](#). 26

. Global Challenges Foundation. Attitudes to global risk and governance survey 2018. Technical report, 2018. [Link](#). 11

C. Gollier & J. Tirole. Negotiating Effective Institutions Against Climate Change. *Economics of Energy & Environmental Policy*, 2015. [Link](#). 18

Greenpeace. Energy [r]evolution - a sustainable world energy outlook 2015, 2015. [Link](#). 77

M. Grubb. The Greenhouse Effect: Negotiating Targets. *International Affairs (Royal Institute of International Affairs 1944-)*, 1990. [Link](#). 18

W. A. Hanson. Satellite Internet in the Mobile Age. *New Space*, 2016. [Link](#). 25

- P. Harnett. Taking Tax to the Global Level Combining Southern Initiatives to Create a World Basic Income. Technical report, World Basic Income, 2017. [Link](#). 25
- J. Haushofer & J. Shapiro. The Short-term Impact of Unconditional Cash Transfers to the Poor: Experimental Evidence from Kenya. *The Quarterly Journal of Economics*, 2016. [Link](#). 25
- S. Henson, J. Lindstrom, L. Haddad, & R. Mulmi. Public Perceptions of International Development and Support for Aid in the UK: Results of a Qualitative Enquiry. *IDS Working Papers*, 2010. [Link](#). 15
- J. Hickel. *The Divide: A Brief Guide to Global Inequality and Its Solutions*. Heinemann, 2017. ISBN 978-1-78515-112-5. [Link](#). 24, 25
- M. Hoel. Carbon taxes: An international tax or harmonized domestic taxes. *CICERO Working Paper*, 1991. [Link](#). 18
- N. Höhne, M. den Elzen, & D. Escalante. Regional GHG reduction targets based on effort sharing: A comparison of studies. *Climate Policy*, 2014. [Link](#). 24
- C. Holz, E. Kemp-Benedict, T. Athanasiou, & S. Kartha. The Climate Equity Reference Calculator. *Journal of Open Source Software*, 2019. [Link](#). 21
- C. Hood. Input to the High-level Economic Commission on Carbon Prices, 2017. [Link](#). 76
- D. Hudson & J. van Heerde. 'A Mile Wide and an Inch Deep': Surveys of Public Attitudes towards Development Aid. *International Journal of Development Education and Global Learning*, 2012. [Link](#). 14, 15
- . IEA. World Energy Outlook. Technical report, 2007. [Link](#). 21
- IEA. *Energy Technology Perspectives 2017*. 2017. [Link](#). 76
- IMF, editor. *How to Mitigate Climate Change*. Washington, DC, 2019. ISBN 978-1-4983-2122-8. 18
- T. Isbell. Footing the bill? Technical report, Afrobarometer, 2022. [Link](#). 16
- ISSP. International Social Survey Programme: Environment III. 2010. [Link](#). 12

ISSP. International Social Survey Programme ISSP 2019 - Social Inequality V. 2019. [Link](#).
[12](#)

D. Ivanova & R. Wood. The unequal distribution of household carbon footprints in Europe and its link to sustainability. *Global Sustainability*, 2020. [Link](#). [76](#)

B. Jaeger & M. Wilks. The relative importance of target and judge characteristics in shaping our moral circle, 2021. [Link](#). [17](#)

D. Jamieson. Climate Change and Global Environmental Justice. 2001. [Link](#). [18](#)

T. B. Johansson, A. Patwardhan, N. Nakićenović, L. Gomez-Echeverri, & International Institute for Applied Systems Analysis, editors. *Global Energy Assessment (GEA)*. Cambridge University Press ; International Institute for Applied Systems Analysis, Cambridge : Laxenburg, Austria, 2012. ISBN 978-1-107-00519-8 978-0-521-18293-5. [22](#), [23](#),
[77](#)

I. Kant. *Zum ewigen Frieden: Ein philosophischer Entwurf*. 1795. ISBN 978-1-4840-4926-6. [26](#)

D. Kaufmann, E. F. McGuirk, & P. C. Vicente. Foreign Aid Preferences and Perceptions in Donor Countries. 2012. [14](#)

W. Kopczuk, J. Slemrod, & S. Yitzhaki. The limitations of decentralized world redistribution: An optimal taxation approach. *European Economic Review*, 2005. [Link](#). [25](#)

M. Leimbach & A. Giannousakis. Burden sharing of climate change mitigation: Global and regional challenges under shared socio-economic pathways. *Climatic Change*, 2019. [Link](#). [19](#)

J. Leinen & A. Bummel. *A World Parliament: Governance and Democracy in the 21st Century*. Democracy Without Borders, Berlin, 2018. ISBN 978-3-942282-13-0. [26](#)

D. J. C. MacKay, P. Cramton, A. Ockenfels, & S. Stoft. Price carbon - I will if you will. *Nature*, 2015. [18](#)

H. D. Matthews. Quantifying historical carbon and climate debts among nations. *Nature Climate Change*, 2015. [Link](#). [20](#)

L. Maverick Lloyd & R. Schwimmer. Chaos, War, and a New World Order. Technical report, 1937. [Link](#). [26](#)

- D. M. McEvoy & T. L. Cherry. The prospects for Paris: Behavioral insights into unconditional cooperation on climate change. *Palgrave Communications*, 2016. [Link](#). 17
- L. F. McGrath & T. Bernauer. How strong is public support for unilateral climate policy and what drives it? *WIREs Climate Change*, 2017. [Link](#). 17
- A. Meilland, Y. Kervinio, & A. Méjean. International climate justice: What the people think. 2023. 12, 13
- A. Meyer. Briefing: Contraction and convergence. *Proceedings of the Institution of Civil Engineers - Engineering Sustainability*, 2004. [Link](#). 23
- G. Myrdal. *Beyond the Welfare State: Economic Planning and its International Implications*. Praeger, yale university press edition, 1960. ISBN 978-0-313-23697-6. 24
- G. Myrdal. The Equality Issue in World Development. *The Swedish Journal of Economics*, 1975. [Link](#). 24
- G. Nair. Misperceptions of Relative Affluence and Support for International Redistribution. *The Journal of Politics*, 2018. [Link](#). 14
- E. Neumayer. In defence of historical accountability for greenhouse gas emissions. *Ecological Economics*, 2000. [Link](#). 20
- OECD. *Main Findings from the 2018 Risks That Matter Survey*. OECD, 2019. ISBN 978-92-64-35751-8. [Link](#). 16
- H. J. O'Gorman. Pluralistic ignorance and white estimates of white support for racial segregation. *Public Opinion Quarterly*, 1975. [Link](#). 17
- . Patriotic Millionaires. Patriotic Millionaires Survey. Technical report, 2022. [Link](#). 16
- P. Paxton & S. Knack. Individual and country-level factors affecting support for foreign aid. *International Political Science Review*, 2012. [Link](#). 15
- G. P. Peters, S. J. Davis, & R. Andrew. A synthesis of carbon in international trade. *Biogeosciences*, 2012. [Link](#). 76
- T. Piketty. *Capital in the Twenty-First Century*. Harvard University Press, Cambridge, 2014. ISBN 978-0-674-43000-6. 25

P. o. I. P. A. PIPA. Americans on Foreign Aid and World Hunger A Study of U.S. Public Attitudes. Technical report, PIPA, 2001. [Link](#). [14](#), [15](#), [16](#), [17](#)

P. o. I. P. A. PIPA. Publics in Developed Countries Ready to Contribute Funds Necessary to Cut Hunger in Half By 2015. Technical report, 2008. [Link](#). [14](#)

R. G. Rajan. A Global Incentive to Reduce Emissions, 2021. [Link](#). [18](#)

M. R. Raupach, S. J. Davis, G. P. Peters, R. M. Andrew, J. G. Canadell, P. Ciais, P. Friedlingstein, F. Jotzo, D. P. van Vuuren, & C. Le Quéré. Sharing a quota on cumulative carbon emissions. *Nature Climate Change*, 2014. [Link](#). [20](#), [24](#)

R. Reyes, M. Lenzen, & J. Murray. Better Global Assessment of Worker Inequality: Comment on “The Employment Footprints of Nations”. *Journal of Industrial Ecology*, 2017. [Link](#). [24](#)

S. Reysen & I. Katzarska-Miller. *The Psychology of Global Citizenship: A Review of Theory and Research*. Lexington Books, Lanham, 2018. ISBN 978-1-4985-7029-9. [16](#)

K. Riahi, D. P. van Vuuren, E. Kriegler, J. Edmonds, B. C. O'Neill, S. Fujimori, N. Bauer, K. Calvin, R. Dellink, O. Fricko, W. Lutz, A. Popp, J. C. Cuaresma, S. Kc, M. Leimbach, L. Jiang, T. Kram, S. Rao, J. Emmerling, K. Ebi, T. Hasegawa, P. Havlik, F. Humpenöder, L. A. Da Silva, S. Smith, E. Stehfest, V. Bosetti, J. Eom, D. Gernaat, T. Masui, J. Rogelj, J. Strefler, L. Drouet, V. Krey, G. Luderer, M. Harmsen, K. Takahashi, L. Baumstark, J. C. Doelman, M. Kainuma, Z. Klimont, G. Marangoni, H. Lotze-Campen, M. Obersteiner, A. Tabeau, & M. Tavoni. The Shared Socioeconomic Pathways and their energy, land use, and greenhouse gas emissions implications: An overview. *Global Environmental Change*, 2017. [Link](#). [77](#)

Y. Robiou du Pont, M. L. Jeffery, J. Gütschow, P. Christoff, & M. Meinshausen. National contributions for decarbonizing the world economy in line with the G7 agreement. *Environmental Research Letters*, 2016. [Link](#). [24](#)

Y. Robiou du Pont, M. L. Jeffery, J. Gütschow, J. Rogelj, P. Christoff, & M. Meinshausen. Equitable mitigation to achieve the Paris Agreement goals. *Nature Climate Change*, 2017. [Link](#). [24](#)

K. Rowlingson, A. Sood, & T. Tu. Public attitudes to a wealth tax: The importance of ‘capacity to pay’. *Fiscal Studies*, 2021. [Link](#). [15](#)

- E. Saez & G. Zucman. *The Triumph of Injustice: How the Rich Dodge Taxes and How to Make Them Pay*. W. W. Norton & Company, New York, NY, first edition edition, 2019. ISBN 978-1-324-00272-7. [59](#)
- M. Schecht & D. Tisch. Tax principles, policy feedback and self-interest: Cross-national experimental evidence on wealth tax preferences. *Socio-Economic Review*, 2023. [Link](#). [16](#)
- J. Schleich, E. Dütschke, C. Schwirplies, & A. Ziegler. Citizens' perceptions of justice in international climate policy: An empirical analysis. *Climate Policy*, 2016. [Link](#). [12](#), [13](#)
- J. Sivonen. Attitudes toward global and national climate policies in Finland – The significance of climate change risk perception and urban/rural-domicile. *GeoJournal*, 2022. [Link](#). [12](#)
- G. Sparkman, N. Geiger, & E. U. Weber. Americans experience a false social reality by underestimating popular climate policy support by nearly half. *Nature Communications*, 2022. [Link](#). [17](#)
- G. Standing. A little more, how much it is...: Piloting basic income transfers in madhya pradesh, india. Technical report. Technical report, UNICEF, 2014. [Link](#). [25](#)
- E. A. Stanton. Negishi welfare weights in integrated assessment models: The mathematics of global inequality. *Climatic Change*, 2011. [Link](#). [18](#)
- N. Stern & J. E. Stiglitz. Report of the High-Level Commission on Carbon Prices. Technical report, Carbon Pricing Leadership Coalition, 2017. [Link](#). [76](#)
- K. Vaillancourt & J.-P. Waaub. Equity in international greenhouse gases abatement scenarios: A multicriteria approach. *European Journal of Operational Research*, 2004. [Link](#). [19](#)
- N. J. van den Berg, H. L. van Soest, A. F. Hof, M. G. J. den Elzen, D. P. van Vuuren, W. Chen, L. Drouet, J. Emmerling, S. Fujimori, N. Höhne, A. C. Köberle, D. McCollum, R. Schaeffer, S. Shekhar, S. S. Vishwanathan, Z. Vrontisi, & K. Blok. Implications of various effort-sharing approaches for national carbon budgets and emission pathways. *Climatic Change*, 2020. [Link](#). [24](#)
- J. C. J. M. van den Bergh, A. Angelsen, A. Baranzini, W. J. W. Botzen, S. Carattini, S. Drews, T. Dunlop, E. Galbraith, E. Gsottbauer, R. B. Howarth, E. Padilla, J. Roca, & R. C. Schmidt. A dual-track transition to global carbon pricing. *Climate Policy*, 2020. [Link](#). [18](#)

D. P. van Vuuren, E. Stehfest, D. E. H. J. Gernaat, J. C. Doelman, M. van den Berg, M. Harmsen, H. S. de Boer, L. F. Bouwman, V. Daioglou, O. Y. Edelenbosch, B. Girod, T. Kram, L. Lassaletta, P. L. Lucas, H. van Meijl, C. Müller, B. J. van Ruijven, S. van der Sluis, & A. Tabeau. Energy, land-use and greenhouse gas emissions trajectories under a green growth paradigm. *Global Environmental Change*, 2017. [Link](#). 77

A. Waytz, R. Iyer, L. Young, J. Haidt, & J. Graham. Ideological differences in the expansion of the moral circle. *Nature Communications*, 2019. [Link](#). 17

M. L. Weitzman. On a World Climate Assembly and the Social Cost of Carbon. *Economica*, 2017. [Link](#). 19

P. Zhou & M. Wang. Carbon dioxide emissions allocation: A review. *Ecological Economics*, 2016. [Link](#). 19

List of Tables

1	List experiment: tacit support for the GCS	5
2	Influence of the GCS on electoral prospects	5
A1	Campaign and bandwagon effects on the support for the GCS.	29
A2	Donation to Africa vs. own country	34
A3	Estimated net gain from the GCS in 2030 and carbon footprint by country. .	79
A4	Determinants of support for the GCS	80
A5	Sample representativeness of US1, US2, Eu	81
A6	Sample representativeness of each European country	82
A7	Attrition analysis: US1	83
A8	Attrition analysis: US2	84
A9	Attrition analysis: Eu	85

List of Figures

1	Relative support for global climate policies	3
2	Relative support for further global policies	4
3	Support for the Global Climate Scheme	4
4	Preferred share of wealth tax for low-income countries	5
5	Attitudes on the evolution of foreign aid	6
6	Conditions at which foreign aid should be increased	6
7	Reasons why foreign aid should not be increased	7
8	Preferences for various policies in political platforms	8
9	Influence of the GCS on preferred platform	10
10	Beliefs about support for the GCS and NR	10
A1	Net gains with the CERF burden-sharing rule.	22
A2	Comparison between GDR and equal per capita burden-sharing rules. . . .	23
A3	Absolute support for global climate policies	27
A4	Comprehension	28
A5	Comprehension score	28
A6	List experiment	28
A7	Conjoint analyses 1 and 2	29
A8	Preferences for various policies in political platforms (English)	30
A9	Perceptions of the GCS	31

A10 Classification of open-ended field on the GCS	32
A11 Topics of open-ended field on the GCS	33
A12 Donation to Africa vs. own country	33
A13 Support for a global wealth tax	34
A14 Support for a national wealth tax	35
A15 Preferred share of global tax for low-income countries	35
A16 Support for sharing half of global tax revenues with low-income countries .	35
A17 Actual, perceived and preferred amount of foreign aid (mean)	36
A18 Preferred foreign aid (summary)	36
A19 Perceived foreign aid	37
A20 Preferred foreign aid (without info on actual amount)	37
A21 Preferred foreign aid (after info on actual amount)	38
A22 Preferences for funding increased foreign aid	39
A23 Preferences of spending following reduced foreign aid	40
A24 Willingness to sign a real-stake petition	40
A25 Absolute support for various global policies	41
A26 Preferred approach for international climate negotiations	41
A27 Importance of selected issues	42
A28 Group defended when voting	42
A29 Mean prioritization of policies	43
A30 Positive prioritization of policies	44
A31 Charity donation	44
A32 Interest in politics	45
A33 Desired involvement of government	45
A34 Political leaning	46
A35 Voted in last election	46
A36 Vote in last election	47
A37 Perception that survey was biased	47
A38 Classification of open-ended field on extreme poverty	48
A39 Main attitudes by vote	49
A40 <i>Eu</i> survey structure	53
A41 <i>US1</i> survey structure	54
A42 <i>US2</i> survey structure	54
A43 Net gains from the Global Climate Scheme.	78