

# Whose preferences matter for redistribution: Cross-country evidence

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## Abstract

Using cross-sectional data from 93 countries, we investigate the relationship between the desired level of redistribution among citizens from different socioeconomic backgrounds and the actual extent of government redistribution. Our focus on redistribution arises from the inherent class conflicts it engenders in policy choices, allowing us to examine whose preferences are reflected in policy formulation. Contrary to prevailing assumptions regarding political influence, we find that the preferences of the lower socioeconomic group, rather than those of the median or upper strata, are most predictive of realized redistribution. This finding contradicts the expectations of both leading experts and regular citizens.

**JEL Classifications:** H23; D72; D78.

**Key words:** Elite Capture; Median Voter Theorem; Preferences for Redistribution

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There are two dominant views of whose preferences drive policymaking. Most prominently, the median voter model posits that policies will reflect the preferences of the average citizen (Hotelling, 1929; Black, 1948; Downs, 1957). An alternative view is that the preferences of the economic elite — who possess the resources to have disproportionate influence — have greater impact on policy outcomes, whether through a stronger impact on public opinion, direct access to policymakers, or greater political participation.<sup>1</sup> The narrative of elite capture has gained particular prominence in both academic and mainstream discourse, and populist politicians have exploited it to attract disaffected voters (Guriev and Papaioannou, 2022).

These theories, in turn, have shaped political economists' views on income redistribution, for which there is at least some inherent class conflict over preferred policies. In particular, the canonical model of Meltzer and Richard (1981) builds on the median voter framework, arguing that the preferences of median-income voters dictate the extent of taxation and redistribution. This has given rise to a rich empirical literature testing the central tenets of the median voter model (e.g., see Meltzer and Richard, 1983; Benabou, 1996; Perotti, 1996; Borge and Rattsø, 2004; Mulligan *et al.*, 2004; Karabarbounis, 2011; Acemoglu *et al.*, 2015; Fujiwara, 2015).

Approaches to testing theories of government redistribution usually assume that voters' preferences are determined by their economic circumstances, which then interact with political institutions to determine policy (e.g., Iversen and Soskice, 2006; Acemoglu and Robinson, 2006). Regardless of the political system, however, less redistribution is assumed to reflect more weight on the preferences of the rich and, conversely, more redistribution implies more weight on the preferences of the poor.

In this paper, we take a different approach by directly evaluating whose preferences are most predictive of actual redistribution. We do so by relating redistributive preferences (as captured by survey responses) to realized redistribution in a cross-section of 93 countries

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<sup>1</sup>See, e.g., Bullock (2011) for a discussion of the elite's influence via public opinion, Teso (2020) on the direct influence of corporate elites, and Schlozman *et al.* (2012) on unequal political activism.

representing roughly 87 percent of the world’s population. We leverage two main datasets. First, to measure preferences for redistribution, we use a combination of data from the World Values Survey for the years 1995 to 2014. Specifically, we use responses to a standard income inequality question that asks respondents where they lie on the spectrum of, “We need larger income differences as incentives for individual effort” to “Incomes should be made more equal.”<sup>2</sup> We then construct a preference measure for different socioeconomic status (SES) groups, focusing on the bottom 5%, middle 5%, and top 5% in each country, in line with theories of political influence. Second, to capture actual government redistribution, we follow Solt (2020) and use the difference between net and gross Gini coefficients from the Standardized World Income Inequality Database (SWIID).<sup>3</sup>

We find that the preferences of the *lowest* SES group are most predictive of realized redistribution. When we control for this measure, neither the median nor the top SES group’s preferences have any incremental explanatory power. This pattern persists even when we analyze the preferences of each group separately, as the preferences of the highest SES group are not a significant predictor of realized redistribution. Including a range of country-level controls (e.g., GDP, pre-tax income inequality, population size, and democracy), or defining SES groups differently (e.g., 10% ranges or terciles instead of 5%) does not meaningfully change the results. The pattern also holds for both democratic and nondemocratic countries, alternative measures of government redistribution and preferences for redistribution, and it is stable over time.

The aim of this paper is not to test a particular model, such as the median voter framework, but to introduce a new empirical perspective that could potentially challenge commonly held views of policy influence, thereby stimulating further empirical and theoretical research. While we cannot pinpoint the exact mechanism underlying the observed pattern,

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<sup>2</sup>See, e.g., Shayo (2009); Gorodnichenko and Roland (2011); Langsæther and Evans (2020); Margalit and Shayo (2021) among many others for work that also relies on this measure.

<sup>3</sup>As a robustness check, we explore alternative measures of redistribution, including post-tax Gini as a broad indicator, as well as taxes and social security expenditures from the latest version of the Relative Political Capacity dataset (Arbetman-Rabinowitz *et al.*, 2020).

additional analyses that we describe after presenting our main results help to narrow down the potential explanations.

Our work contributes to the vast literature on the determinants of government policy, particularly as they pertain to redistribution. In response to the apparent conflict between the Meltzer and Richard (1981) model and observed empirical facts, a large theoretical literature has proposed various explanations for muted demand for redistribution in the face of high or rising inequality. While too vast to survey here, notable theoretical contributions include Piketty (1995), Benabou (2000), Benabou and Ok (2001), Alesina and Angeletos (2005), and Benabou and Tirole (2006). In parallel, an ever-growing literature has explored the institutional and individual determinants of redistributive preferences, and also the determinants of actual redistributive policies, often guided by theoretical frameworks that build on either median voter or elite capture models. Karabarbounis (2011), for example, revisits the Meltzer-Richard in a panel of 14 OECD countries, employing an approach that uses wealth as the unit of political influence (“one dollar, one vote”), and finds that this is a better fit for the data than the standard median voter approach. Iversen and Soskice (2006) instead consider, in a sample of 17 countries, how different electoral systems impact the extent of redistribution, because of the resultant political coalitions that may emerge. Rather than looking at variation amongst democratic institutions, a more basic implication of Meltzer-Richard is that democracy should increase redistribution by giving more political voice to poor citizens. As Acemoglu *et al.* (2015) point out, however, democracies may be co-opted by the elites, and autocrats may also be responsive to lower-income citizens to maintain stability.

Our paper is distinct from these earlier efforts in that we look at the relationship between class preferences — rather than making assumptions of a direct link from own-income to redistributive preferences — and realized redistribution. Several single-country studies consider this relationship. Most notably, Gilens and Page (2014) provide a “preliminary and tentative” test of which income groups’ preferences are most correlated with policy realizations in

the U.S. context. By comparing stated preferences of individuals at the median versus 90th percentile of the income distribution to actual policy realizations, they conclude that, while both groups agree on many issues, the preferences of wealthier Americans are more strongly correlated with policy outcomes (a finding that aligns with the broader literature discussed in the review article by Erikson, 2015). However, the U.S. setting may not be reflective of policy deliberation more generally — for example, the specifics of American politics may make it particularly susceptible to the influence of the affluent relative to other democratic countries. More recent work, again focused on single countries, uses a similar approach to document the link from preferences to policies in the Netherlands (Schakel, 2020), Germany (Elsässer *et al.*, 2020), and Norway (Mathisen, 2022). The last of these in particular finds that the preferences of lower-income individuals are correlated with policy outcomes (as are the preferences of the affluent), indicating at least the possibility of the less well-off influencing policy in some countries.<sup>4</sup> Our study goes beyond these single country analyses by linking preferences to policy outcomes on a global scale.

We conclude the introduction by noting that, although our analysis does not provide a direct test of any particular theory, the strong and robust relationship between the bottom 5%'s preferences and realized redistribution nonetheless poses a challenge to the most straightforward notions of political influence. At the very least, these findings are surprising and at odds with the elite capture view of policy formation. In addition to the main analysis, we present the results of an incentivized prediction survey which we conducted with two samples: leading academic economists and regular citizens. Both groups, when presented with our empirical exercise, are most likely to predict that either the top or median

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<sup>4</sup>It would be interesting to explore how our results compare to the findings in these earlier studies. However, it is not possible to do so given the different types of data used across studies. Prior work relies on variation in preferences across multiple policy issues within a single country, whereas we utilize variation in preferences across countries for a single policy issue. As a result, it is not possible to use data from, for example, Gilens and Page (2014) to estimate the relationship between SES groups' preferences for redistribution and redistributive policy. Similarly, we cannot use our data to zoom in on a particular country, despite the existence of regional identifiers in our datasets. These identifiers are too coarse to provide sufficient variation in redistributive policies within individual countries.

group’s preferences will be most correlated with realized policies — responses that align with median-voter or elite-capture intuitions. We hope that our findings will inspire researchers to develop theories and conduct further empirical tests to better understand and explain our results.

## 1 Data

We first describe the data selection and preparation process for the different datasets used in our analysis below. The sources and descriptions of each variable are summarized in Appendix D.

### Preferences for Redistribution

We derive our country-level measure of redistributive preferences based on 237,986 observations from the World Values Survey (WVS) during the years 1995-2014 (Haerpfer *et al.*, 2022).<sup>5</sup> The WVS is designed to provide nationally representative samples of the resident adult population.<sup>6</sup>

Specifically, respondents were asked to locate their preferences for redistribution in the 1-10 range, where 1 indicates agreement with the statement, “Income should be more equal” and 10 indicates agreement with, “We need larger income differences as incentives for individual effort.” We coded answers such that higher values represent a stronger preference for redistribution (with a scale ranging from 0 to 9).

Since we are interested in how these preferences differ by socioeconomic status, we construct an SES index based on the following variables: relative household income (from 1

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<sup>5</sup>See <https://www.worldvaluessurvey.org/WVSDocumentationWVL.jsp>, last accessed November 20, 2023. We do not use data from waves 1 and 2 (pre-1995), nor from wave 7 (2016 and later), since the earlier waves do not include information on social class and/or income, and the most recent wave employs different coding for education relative to earlier waves.

<sup>6</sup>For more information about the survey and sampling methodology of the WVS, see <https://www.worldvaluessurvey.org/WVSContent.jsp?CMSID=FieldworkSampling&CMSID=FieldworkSampling>; last accessed October 28, 2023.

“lowest group” to 10 “highest group” in a given country); education (from 1 “inadequately completed elementary education” to 8 “university/higher degree”), and self-reported social class (from 1 “upper class” to 5 “lower class”). We rank respondents based on the first principal component of these three variables, and aggregate SES preferences for each country over all waves. In our main analysis, we define SES groups based on 5% ranges in this distribution. For example, *top 5%* represents the average preferences for redistribution of all respondents from a given country with an SES index above the 95th percentile. We similarly define the *middle 5%* and *bottom 5%*. We exclude countries for which a given SES group’s redistributive preferences are based on fewer than 30 observations.<sup>7</sup>

To provide a clearer sense of what it means to rank in the top or bottom 5% of the SES index, we regress various socioeconomic indicators on dummy variables for belonging to those groups, while including country and wave fixed effects (see Appendix Table B.1). The WVS contains data for a subset of the sample on households’ (country-specific) income brackets in absolute terms. In the U.S., for example, the lowest and highest income brackets correspond to an annual household income of \$12,500 or less and \$175,000 or more, respectively. We show that top 5% respondents are 35 percentage points more likely to be in the highest income bracket (column 1), and that bottom 5% respondents are 38 percentage points more likely to fall in the lowest income bracket (column 2). We further show that the top 5% are 27 percentage points more likely to have a supervisory role at work (column 3), and that they are also 4.5 percentage points more likely to be a member of a political party (column 4). Appendix Table B.2 provides additional descriptive statistics for the background characteristics of the three SES groups.

A natural concern with our data on the top 5%’s preferences — as with earlier efforts at measuring elite preferences — is that those with very high incomes generally do not respond to surveys.<sup>8</sup> We do have information on the redistributive preferences of the very wealthy for

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<sup>7</sup>The median number of observations per country and SES group is 123, 140, and 122, respectively, if we define SES groups based on 5% ranges.

<sup>8</sup>As noted above, the WVS data only provide us an income range for each respondent; for the

the U.S., using data from Cohn *et al.* (2023). In Appendix E we show that the redistributive preferences of the very rich (annual incomes above \$750,000) are very similar to those of the merely very well-off (incomes between \$150,000 and \$200,000), and that the monotonic decline in desired redistribution continues in higher income brackets. While not conclusive, these findings suggest that the preferences of the highest ventile group in our data are a reasonable proxy for the preferences of the true elites.

## Measures of Redistribution

Our measure of actual redistribution comes from the Standardized World Income Inequality Database (SWIID; see Solt, 2020 for more details).<sup>9</sup> For our main analyses, we use a measure of relative redistribution, defined as the difference between the pre-tax and post-tax Gini index, scaled by pre-tax Gini (our results are robust to using the absolute difference between pre- and post-tax Gini; see Appendix Table B.3). This measure can be interpreted as the percentage change in income inequality caused by government intervention (i.e., taxes and transfers), with higher values indicating more redistribution. Since our preference data end in 2014, we focus on the SWIID data from the year closest to 2015, i.e., the first year following the end of our preference data.<sup>10</sup>

We consider several alternative approaches to measuring redistribution. Our main alter-  

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U.S., for example, the highest category is “above \$175,000” and while we cannot say for certain, we believe that it is unlikely that many respondents have incomes too far above this cutoff.

<sup>9</sup>The SWIID dataset is not without controversy. For example, Jenkins (2015) criticized the complicated and opaque imputation procedure that was used to construct it. Some issues have been fixed in newer versions of the dataset (e.g., by adding external data as it becomes available) or represent inaccurate descriptions of the imputation procedure (e.g., whether all observations are imputed or only observations for which external data is missing). Other issues of imputation, such as adjustments that need to be made when data are drawn from multiple sources or when there is a change in the data compilation process, have been addressed in recent versions of the SWIID (Solt, 2020). As such, we believe that the SWIID offers the most comparable data for the most country-years of any cross-national dataset on income inequality. Nonetheless, in order to probe the robustness of our results, we use alternative measures of redistribution that either do not rely on imputed values or originate from other data sources (Relative Political Capacity dataset).

<sup>10</sup>To increase the sample size we use imputed values for pre- and post-tax Gini provided by Solt (2020). Appendix Table B.8 shows that the results do not meaningfully change when we exclude imputed observations.



native is the post-tax Gini, which is an all-encompassing measure of a society’s efforts to reduce income inequality. The post-tax Gini incorporates the consequences of progressive taxation, as well as any pre-distribution policies like minimum wage or unionization. The disadvantage of using the post-tax Gini is that it incorporates an array of considerations, including, e.g., factor endowments, that impact the pre-tax Gini but are unrelated to redistribution. We also use the updated Relative Political Capacity dataset to create several other measures of redistribution (see Arbetman-Rabinowitz *et al.*, 2020, and also Acemoglu *et al.*, 2015). In particular, we use data on taxes and social security expenditures scaled by GDP, as well as a principal component analysis to combine all four measures of redistribution (relative redistribution, post-tax Gini, taxes, social security) into a single redistribution index. Finally, we also use data on average tax rates for different income levels from the World Tax Indicators (Andrew Young School of Policy Studies, 2010).

## Control Variables

Our basic controls include the log transformations of GDP per capita and population size, as well as a dummy variable for democratic countries, following the approach of Acemoglu *et al.* (2019).<sup>11</sup> We further include pre-tax Gini to control for initial differences in income inequality.

## Basic data properties

Before proceeding to our main analyses, we provide a brief overview of the data and its properties. A limitation of our study is its relatively small sample size of 93 countries, which is further reduced when data is missing.<sup>12</sup> We thus use bootstrapped standard errors in the regression analyses.

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<sup>11</sup>As an alternative, we use the Polity IV data to classify countries as democratic (see Appendix Table B.12).

<sup>12</sup>We adopt the country classification of the WVS (e.g., Hong Kong, Puerto Rico, and Palestine are treated as separate countries).

Appendix Figure A.1 displays average preferences for redistribution across all countries by SES ventile. There is a clear, near-monotonic decline across all ventiles, with higher SES groups preferring less redistribution. Moreover, the standard errors are very similar across all ventiles, suggesting that we measure redistributive preferences equally precisely across SES groups. Appendix Figure A.2 demonstrates that this association also holds true across the majority of the countries in our sample. In most countries, the bottom SES group displays the strongest preference for redistribution, while the top SES group displays the weakest preference for redistribution.

There is nonetheless a substantial country-specific component to redistributive preferences, as shown in Appendix Figure A.3. Each panel of the figure depicts the pairwise relationship between average redistributive preferences for each pairing involving the bottom, middle, and top SES groups. There is a strong positive correlation for each pair; as expected, the relationship is weakest for the bottom-top comparison ( $\rho = 0.535$ ,  $p < 0.001$ ); the pairwise correlation is 0.781 ( $p < 0.001$ ) for the bottom-middle and 0.697 ( $p < 0.001$ ) for the middle-top comparison.<sup>13</sup>When we take the average preference across all SES groups by country, we see a strong positive correlation between redistributive preferences and realized redistribution ( $\rho = 0.419$ ,  $p < 0.001$ ). This provides further support for the validity of our survey measure of attitudes toward redistribution.

In Appendix Table B.4, we show that preferences for redistribution are relatively stable over time. Specifically, we regressed the most recently available inequality preference measure on the first inequality preference measure available (a gap of as much as 18 years) and observe a remarkably strong correlation for all SES groups between preferences expressed in early and late survey waves. Moreover, splitting the data into two periods (1995-2004 and 2005-2014)

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<sup>13</sup>These relationships underscore the importance of focusing on redistributive policies. Even for this area for which there is natural class conflict, there is still a large degree of agreement across income groups regarding desired policy. As Gilens and Page (2014) note, there is broad agreement across socioeconomic groups on policy outcomes, which makes it challenging to identify the excess influence of any particular group when one considers, as they do, policy making across many domains.

further suggests that our findings are robust over time (see Appendix Table B.5). These results suggests that it is reasonable to aggregate data on redistributive preferences across all available years.

## 2 Results

Our main results, presented in Table 1, are based on the following equation:

$$Redistribution_c = \alpha + \beta * Preferences_{g(c)} + X_c + \epsilon_c, \quad (1)$$

where  $Redistribution_c$  represents a relative measure of government redistribution in country  $c$  and  $Preferences_{g(c)}$  denotes the average redistributive preferences of group  $g$  (bottom, middle, and top 5% SES groups) in country  $c$ . We include a set of country-level controls  $X_c$ , as described in section 1, and report bootstrapped standard errors from 1,000 replications throughout.

In columns (1) to (3) of Table 1, we look at the bivariate correlation between redistribution and each of the average redistributive preferences of the top, middle, and bottom 5% SES groups. The correlation is positive and significant for both the middle and bottom 5% ( $p < 0.001$ ). Even in this bivariate comparison, preferences of the top 5% are not significantly correlated with actual redistribution, despite the sizable within-country correlation among SES groups as documented in Appendix Figure A.3. We provide a visual representation of the data in Figure 1, where we show the scatterplot of each group's preferences and redistribution. As evident in the figure, the bottom 5% exhibit the strongest link between redistributive preferences and realized redistribution. The correlation coefficients for the bottom and middle 5% are significantly larger than the coefficients for the top 5% ( $p = 0.006$  and  $p = 0.010$ , respectively). The coefficients for the bottom and middle 5% do not differ significantly ( $p = 0.294$ ).<sup>14</sup> Overall, this set of bivariate relationships present a challenge to

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<sup>14</sup>The relative redistribution measure is negative for Ukraine, Tanzania, and Indonesia. The results remain qualitatively the same if we exclude those three countries from the analysis (see

Table 1: Attitudes and Relative Redistribution

	Relative redistribution					
	(1)	(2)	(3)	(4)	(5)	(6)
Top 5%	2.284 (1.709)			-4.293 (1.929)	-3.195 (1.804)	-2.655 (1.834)
Middle 5%		5.622 (1.416)		1.529 (2.425)	0.355 (2.226)	-0.747 (2.314)
Bottom 5%			6.575 (0.917)	7.277 (1.605)	5.904 (1.366)	6.052 (1.414)
ln(GDP per capita)					2.330 (1.244)	2.536 (1.250)
ln(Population)					-1.923 (0.758)	-1.760 (0.700)
Democracy					7.476 (2.693)	5.761 (2.724)
Gini pre-tax						0.517 (0.257)
Constant	9.033 (6.032)	-6.619 (5.555)	-14.656 (4.145)	-9.441 (5.707)	-21.525 (11.388)	-43.923 (15.433)
Top=Middle				0.123	0.320	0.599
Top=Bottom				0.000	0.000	0.000
Middle=Bottom				0.121	0.086	0.043
F-stat p-val	0.181	0.000	0.000	0.000	0.000	0.000
R-squared	0.019	0.148	0.301	0.332	0.479	0.529
N	94	93	94	93	91	91

Notes: This table reports OLS coefficient estimates with bootstrapped standard errors from 1,000 replications in parentheses. The dependent variable is relative redistribution, defined as the difference between pre-tax and post-tax Gini index, scaled by pre-tax Gini. This measure can be interpreted as the percentage change in income inequality caused by government intervention (i.e., taxes and transfers), with higher values indicating more redistribution. The variables Top 5%, Middle 5%, and Bottom 5% reflect the redistributive preferences of different socioeconomic status groups. Socioeconomic status groups are defined as the bottom 5%, middle 5%, and top 5% of respondents based on our socioeconomic status index. Missing values for realized redistribution are imputed using the estimates for pre-tax and post-tax Gini coefficients. The p-values from the Wald test comparing the coefficients of the different socioeconomic status groups are shown at the bottom of the table. See Appendix D for a detailed description of the control variables.

the elite capture view of policy determination.

In column (4), we include all three preference variables simultaneously, and in column (5) we add our basic set of controls (the log of GDP per capita, the log of population size, and a dummy for democracy). In the first case, only the coefficient of the bottom 5%’s preferences remains positive and significant, whereas the coefficient of the top 5% actually changes sign ( $p = 0.026$ ).<sup>15</sup> With the addition of basic controls in column (5), preferences of the bottom 5% remain a significant positive predictor ( $p < 0.001$ ). Finally, we include pre-tax Gini as a control in column (6) to account for differences in initial levels of inequality. Neither the top nor the middle 5%’s preferences are significant predictors of redistribution, whereas the coefficient of the bottom 5% remains largely unchanged ( $p < 0.001$ ). The Wald tests reported at the bottom of Table 1 shows that the coefficient of the bottom 5% is significantly different from the top 5% irrespective of the specification ( $p < 0.001$ ). The difference between the coefficients of the bottom 5% and the middle 5% is significant ( $p = 0.043$ ) when we include all controls. The differences across SES groups are unlikely to be the result of greater variability of redistributive preferences in the middle and top SES groups compared to the bottom 5%, as Appendix Figure A.1 shows that preference variability is similar along the entire income distribution.

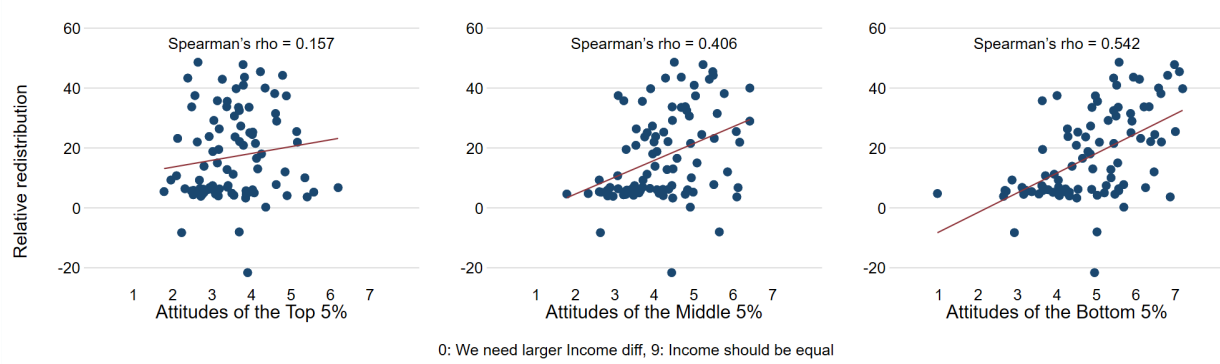
## 2.1 Prediction study

To highlight the contrast between our findings and the prevailing intuition about whose preferences matter for redistribution, we conducted a prediction study with two distinct groups: “experts” and “laypeople.” We designed the prediction study after observing our main results, which led us to ask 140 experts (top 5% academic economists based on the `repec.org` ranking) and 500 laypeople (a representative sample of U.S. citizens in terms of age, gender, Appendix Table B.9).

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<sup>15</sup>The within-country overlap in preferences across SES groups should be taken into consideration when interpreting these results. However, it is crucial to investigate the conditional patterns captured in these specifications precisely because of the overlap.

Figure 1: Correlation between Preferences and Actual Redistribution



Notes: The figure shows the country-level correlations between redistributive preferences and actual redistribution for different socioeconomic status groups. Socioeconomic status groups are defined as the bottom 5%, middle 5%, and top 5% of respondents based on our socioeconomic status index.

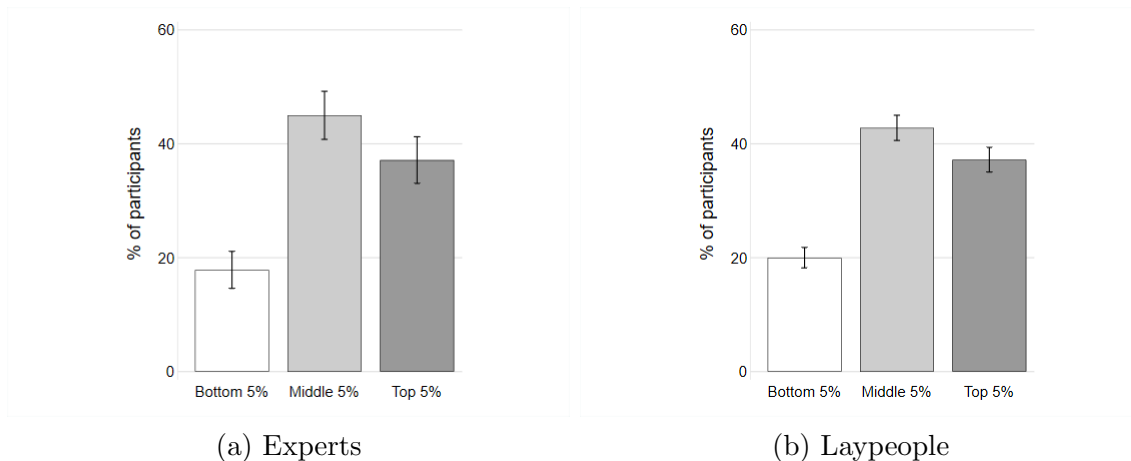
and ethnicity) to predict the results of our study (Dreber *et al.*, 2015; DellaVigna and Pope, 2018; DellaVigna *et al.*, 2019). We described our empirical design to participants in intuitive terms and then asked them to rank (i) which SES group’s preferences for redistribution are most correlated with actual redistribution and (ii) which SES group’s preferences for redistribution are most correlated with each other. Lay respondents received a participation fee of US\$1.59 and could earn up to an additional US\$4, depending on the accuracy of their predictions; expert respondents were entered into a lottery in which three participants received the choice between a US\$100 donation to charity or a US\$100 gift card. Details of the sample collection procedures and survey instruments are in Appendix F.

Figure 2 presents the main finding of the prediction study. Panel (a) shows that 45% of the experts predicted that the median respondent’s preferences would be most correlated with realized redistribution, whereas 37% predicted that the top 5% would be. Only 18% of the experts predicted that the bottom group’s preferences are most strongly correlated with actual redistribution. The results from the general population sample, shown in Panel (b), are virtually the same as for the experts.<sup>16</sup> Thus, the prediction study highlights that both

<sup>16</sup>We find similar results when we analyze the general population sample’s predictions separately by socioeconomic status (see Appendix Figure A.6).

groups' intuitions are guided by median-voter and elite-capture reasoning.

Figure 2: Predictions: Ranking SES Groups According to Correlation between Preferences and Actual Redistribution



Notes: Results from the prediction study with top economists (N=140) and laypeople (N=500). The figure shows for each SES group the share of experts and laypersons, respectively, who predicted the relationship between preferences and actual redistribution would be strongest. Error bars indicate standard errors of the mean. See Appendix F for more details about the prediction study.

To summarize, we document a strong positive correlation between the bottom 5%'s preferences for redistribution and actual redistribution. While we reiterate that the results are based on cross-country correlations and thus should be interpreted with caution, we also emphasize that the patterns are unexpected, as reflected in the incentivized prediction study with both expert economists and the general population.

## 2.2 Robustness checks

We now explore the robustness of our main result to (i) omitted variable bias, (ii) alternative proxies for redistributive preferences, (iii) alternative measures of realized redistribution, and (iv) alternative definitions of the SES groups. We further explore the robustness of our results across democratic versus nondemocratic countries.<sup>17</sup>

<sup>17</sup>We also assessed the robustness of our main results using population weights provided by the WVS when calculating country-level average preferences within each SES group. Appendix Tables B.24, B.25, and B.26 show that the results are almost identical to those obtained without using population weights.

**Omitted variable bias.** Our main results could be driven by omitted variables that correlate with redistributive preferences and realized redistribution. We therefore attempt to control for what we see as the most likely candidates for such omitted variables: confidence in government, ethnic fractionalization, legal origin, and moral universalism. In particular, individuals in countries with poorly functioning institutions or political systems may distrust the state and be less supportive of government redistribution. These dysfunctional systems may lead to reduced levels of redistribution and lower confidence in redistribution, especially among low-income individuals. Moreover, studies suggest that both ethnic fragmentation and legal origin are important factors for the quality of government (e.g., La Porta *et al.*, 1999). At the same time, both of these factors may also correlate with preferences for redistribution because, for example, individuals are typically less likely to support redistribution when the poor are mostly from other ethnic groups (see Alesina and Giuliano, 2011, for a review). We further consider moral universalism as a potential omitted variable, as recent research suggests that more universalist individuals are more supportive of federal redistribution given that the beneficiaries of redistribution are often socially or geographically distant strangers (Enke *et al.*, 2023). Moral universalism can also shape the design of institutions responsible for redistribution (Cappelen *et al.*, 2022). Appendix Table B.16 presents the results of regressions that additionally control for confidence in government, moral universalism, ethnic fractionalization, and legal origin. Reassuringly, the bottom 5%'s preferences for redistribution remain significant after controlling for these additional variables ( $p < 0.002$ ). While we have tried our best to account for possible confounds in our analysis and our results are robust to these considerations, there may still be some factors that remain unaccounted for. For example, our results may be influenced by cultural or institutional factors, such as social norms or income mobility, which are difficult to measure globally in a comparable way. While we thus cannot fully rule out the possibility of omitted variable bias, our results are robust to the most plausible omitted variables that we may capture in the data.



**Alternative measures of preferences.** The question in the WVS may be interpreted by respondents as reflecting desired changes in redistribution rather than absolute levels. While the WVS does not contain any question that is framed in more absolute terms, we can use data from the International Social Survey Programme (ISSP) to examine how relative versus absolute framing might impact our results. The ISSP has four questions related to redistribution, two framed as preferences over the desired level of redistribution and two over desired changes relative to current circumstances. This allows us to assess the extent to which the patterns we observe in the WVS data are sensitive to the exact question wording. In particular, using the ISSP data, we may explore the robustness of our main results when we use measures of redistributive preferences that are more straightforwardly absolute in nature. Moreover, we can examine whether in the ISSP data subjects' responses to questions about desired levels versus changes in redistribution capture similar or distinct notions. The downside of the ISSP data is that it shrinks our sample size to 41 countries (as compared to 93 for comparable specifications using the WVS data).

Appendix Table B.13 replicates our main analysis with the four ISSP measures. The first two measures are based on questions about income differences and taxation, where the benchmark is explicitly set as relative to the current level in the respondent's own country ("Differences in income in <country> are too large 0: Strongly disagree, 4: Strongly agree"; "Generally, how would you describe taxes in <country> today for those with high incomes? 0: Much too high, 4: Much too low"). The other two measures correspond more closely to desired levels of redistribution as the questions ask about redistributive concerns in absolute terms ("It is the responsibility of the government to reduce the differences in income between people with high incomes and those with low incomes. 0: Strongly disagree, 4: Strongly agree"; "Do you think people with high incomes should pay a larger share of their income in taxes than those with low incomes, the same share, or a smaller share? 0: Much smaller, 4: Much larger"). It is reassuring to find the same pattern in the ISSP data as in the WVS data; the correlation between stated preferences and realized redistribution is almost always

more positive for the bottom 5%, relative to the middle or top 5%. This pattern is similar regardless of whether we use preferences for redistribution in levels or changes. However, due to the smaller sample size, the difference between the coefficients of the bottom 5% and the middle 5% is not significant for any measure ( $p > 0.079$ ), at least when we include our basic set of controls (see the summary at the bottom of Appendix Table B.13). However, the difference between the coefficients of the top 5% and bottom 5% is statistically significant for all measures ( $p < 0.002$ ).

The consistency of the results across all four questions then raises the question of whether respondents approach questions about relative versus absolute judgments in similar ways. Perhaps unsurprisingly, responses to these questions are highly correlated. We illustrate this in Appendix Table B.14, where we present, for each of the bottom, median, and top 5%, the correlations across countries in responses to each of the four ISSP questions. For all three groups, we observe very high correlations amongst these four measures. Focusing on the most relevant pair of questions that ask directly about income distribution, the correlation is approximately 0.8 in all three cases. This is remarkably high, particularly given that there are distinctions between the two questions beyond relative versus absolute: one question asks whether income inequality is too large relative to the current level, while the question on absolute preferences invokes government intervention explicitly in reducing income differences, which may differently color how some survey participants respond. Overall, we take these results as some indication that respondents treat these types of questions — which resemble the one we use from the WVS — as asking broadly about their attitudes toward societal inequities. As such, it is less surprising that the two types of preference measures generate similar patterns in the data.

**Alternative measures of redistribution.** Our main alternative outcome measure is the post-tax Gini, which is an all-encompassing indication of a society's efforts to reduce income inequality. The post-tax Gini incorporates the consequences of progressive taxation,

as well as any pre-distribution policies like minimum wage or unionization.<sup>18</sup> For example, it could be that the rich prefer to reduce inequality through pre-distribution policies, whereas the poor may favor redistribution based on taxes and transfers.<sup>19</sup> We also consider proxies for redistribution that are not included in the SWIID dataset. In particular, we use two measures of a country’s taxation from the updated Relative Political Capacity dataset (Arbetman-Rabinowitz *et al.*, 2020): total taxes (Taxes) and social security taxes (Social Security), both as a fraction of GDP. We further compute a redistribution index using the first principal component of the two taxation measures, post-tax Gini, and our measure of relative redistribution. Table 2 presents the results for each of these alternative measures, both with and without controls. Overall, we find a similar pattern as with our main outcome measure: the bottom 5%’s preferences significantly predict actual redistribution ( $p < 0.048$ ), while the other SES group’s preferences do not (note that the sign of the coefficient for the bottom 5%’s preferences flips for post-tax Gini because less inequality means a lower Gini coefficient).<sup>20</sup> When we focus on the specifications that include our standard set of controls, the difference between the coefficients of the bottom 5% and the middle 5% (respectively, bottom 5% and top 5%) is significant for post-tax Gini ( $p = 0.039$  and  $p < 0.001$ ), the redistribution index ( $p = 0.022$  and  $p = 0.001$ ), and (marginally) significant for social security taxes ( $p = 0.059$  and  $p < 0.001$ ). The difference is not significant for total taxes ( $p = 0.317$  and  $p = 0.181$ ), as shown at the bottom of Table 2.

**Alternative definitions of SES groups.** We consider broader definitions of the SES groups, based on 10% and tercile groupings of the SES index, and re-estimate our main regressions using these alternative grouping schemes (see Appendix Tables B.6 and B.7). The results are similar to those based on the 5% groupings, except that the coefficients

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<sup>18</sup>The disadvantage of using the post-tax Gini is that it includes an array of considerations, such as factor endowments, that impact the pre-tax Gini but are unrelated to redistribution.

<sup>19</sup>However, a recent study by Kuziemko *et al.* (2023) suggests that it is the other way around, at least in the U.S. Low SES individuals appear to prefer pre-distribution to redistribution policies.

<sup>20</sup>Appendix Table B.15 shows that the results also do not change meaningfully when we focus on non-mineral taxes.

Table 2: Alternative Measures of Redistribution

	Gini post-tax		Taxes		Social security		Redistribution index	
	(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)
Top 5%	1.293 (1.304)	1.306 (0.850)	-1.842 (1.540)	-0.181 (1.169)	-1.128 (0.695)	-0.850 (0.637)	-0.446 (0.267)	-0.230 (0.203)
Middle 5%	1.205 (1.256)	0.274 (0.999)	0.611 (1.927)	-0.325 (1.346)	0.116 (0.753)	-0.100 (0.719)	0.014 (0.272)	-0.107 (0.222)
Bottom 5%	-3.396 (0.880)	-2.764 (0.656)	3.343 (1.160)	1.688 (0.851)	2.326 (0.470)	1.820 (0.434)	0.887 (0.180)	0.640 (0.146)
ln(GDP per capita)		-1.226 (0.587)		4.546 (0.848)		0.855 (0.456)		0.525 (0.131)
ln(Population)		0.747 (0.334)		-1.116 (0.450)		-0.142 (0.294)		-0.199 (0.077)
Democracy		-2.956 (1.152)		2.066 (1.641)		2.122 (0.999)		0.786 (0.280)
Gini pre-tax		0.669 (0.099)		-0.049 (0.104)		-0.018 (0.077)		-0.028 (0.022)
Constant	43.625 (3.675)	24.982 (6.439)	10.509 (4.026)	-18.947 (7.307)	-2.007 (2.089)	-7.208 (5.040)	-2.807 (0.709)	-5.132 (1.484)
Top=Middle	0.968	0.521	0.438	0.949	0.339	0.534	0.333	0.734
Top=Bottom	0.004	0.000	0.002	0.181	0.000	0.000	0.000	0.001
Middle=Bottom	0.019	0.039	0.347	0.317	0.046	0.059	0.034	0.022
F-stat p-val	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
R-squared	0.171	0.590	0.194	0.556	0.296	0.383	0.349	0.573
N	93	91	88	88	87	87	87	87

Notes: This table reports OLS coefficient estimates with bootstrapped standard errors from 1,000 replications in parentheses. The dependent variable in columns 1 and 2 is the post-tax Gini, in columns 3 and 4 the dependent variable is taxes in percent of GDP, and in columns 5 and 6 the dependent variable is social security taxes in percent of GDP. The dependent variable in columns 7 and 8 is a redistribution index, computed as the first principal component of the post-tax Gini, taxes, social security taxes, and our measure of relative redistribution. The variables Top 5%, Middle 5%, and Bottom 5% reflect the redistributive preferences of different socioeconomic status groups. Socioeconomic status groups are defined as the bottom 5%, middle 5%, and top 5% of respondents based on our socioeconomic status index. The p-values from the Wald test comparing the coefficients of the different socioeconomic status groups are shown at the bottom of the table. *Taxes* is missing for Andorra, Hong Kong, Palestine, Puerto Rico, and Taiwan, *Social security* is further missing for Vietnam. *Taxes* exclude social security contributions. *Social security* are actual revenues receivable by social security schemes organized and operated by government units, for the benefit of the contributors to the scheme. See Appendix D for a detailed description of the control variables.

of the top SES groups are actually negative and significant in our preferred specification that includes all controls ( $p = 0.071$  and  $p = 0.030$ , respectively). This may reflect the higher level of collinearity between the preferences of the different SES groups when we have nearly-overlapping groupings.

Our preferred definition of SES groups is based on multiple dimensions, including relative household income, education, and self-assessed social class. This approach has the advantage of resulting in a relatively fine-grained index, which allows us to estimate redistributive preferences across SES groups with equal precision (see Appendix Figure A.1). Nevertheless, we assess the robustness of our results to using household income alone, with the caveat that the 10-point scale does not allow us to characterize the preferences of different social groups with equal precision.<sup>21</sup> We define the top, middle, and bottom SES groups based on the response options 1 (“Lowest group”), 5, and 10 (“Highest group”), respectively. However, this method has a further limitation: it reduces the sample size to 56 countries if we apply the same minimum threshold (at least 30 observations per country) to construct each SES group’s average preference in a country, as we did with the social index approach. Despite these limitations, we find that the results are very similar, but less precise, compared to our findings when we use the multidimensional definition of SES groups. If all three preference variables are included simultaneously, only the coefficient of the bottom income group remains significant ( $p < 0.024$ ), except when also controlling for the pre-tax Gini (see Appendix Table B.10).

**Democratic vs. nondemocratic countries.** Finally, we examine whether our results generalize across democratic and nondemocratic countries, given that policymakers in democracies may be more responsive to the demands of the less well-off. We split the sample into democratic and nondemocratic countries based on the classification from Acemoglu *et al.* (2019). Appendix Table B.11 shows that the correlation between the preferences of the bottom 5% and realized redistribution is similar for democratic and nondemocratic countries

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<sup>21</sup>For example, only about 3% of the sample places themselves in the top income category (= 10), while a much larger share of the sample (about 17%) places themselves in the middle income category (= 5).

( $p = 0.784$ ). This may seem surprising at first, given that in theory democracy provides more direct accountability. However, as has been well documented, autocrats have a similar need to minimize dissent (Knutson and Rasmussen, 2018; Kammas and Sarantides, 2019), and thus they may be similarly responsive to the demands of the less well-off, at least in the countries included in our sample.<sup>22</sup>

## 2.3 Potential mechanisms

While our cross-country data of modest size does not allow us to pin down a specific mechanism that accounts for the findings, we can provide some evidence on the plausibility of certain classes of explanations by bringing in additional data and examining heterogeneity (or lack thereof) in the correlation between the bottom 5%’s preferences and realized redistribution. First, we consider a possible version of reverse causality in which high inequality leads low-income individuals to accept inequality as just. Second, we examine the role of political activism as a potential explanation. Third, we consider whether a coalition of lower- and higher-income individuals might together influence redistributive policies, as suggested by Iversen and Soskice (2006). In Appendix C, we further explore whether greater political extremism and conformism in the bottom SES group can explain our results. We conclude with a discussion of what we believe is the most plausible mechanism for our results, namely that policymakers are more responsive to the bottom SES group’s preferences for redistribution because it is more of a policy priority for low-income individuals.

**Reverse causality.** It is possible that actual redistribution influences preferences for redistribution. For example, in countries with little redistribution, lower SES individuals may come to believe that distributional outcomes are beyond their control and that they are fated to be poor.<sup>23</sup> This is consistent with the psychological phenomenon of “learned

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<sup>22</sup>See also Acemoglu *et al.* (2015) for a fuller discussion of why democracy may only lead to a limited increase in influence of lower income groups. Note that their discussion largely takes as a point of departure that higher-income groups have more influence in autocracies, which we do not find in our data.

<sup>23</sup>A similar argument can be made about higher SES individuals, but in the form of a backlash

helplessness” (Maier and Seligman, 1976), which suggests that individuals who feel they cannot change their circumstances may adopt views that reflect reality to make the world seem more tolerable. In our context, this theory implies that if the bottom 5% believe that change is infeasible, they may develop a sense of helplessness and state preferences for redistribution that reflect current levels of redistribution. To test this hypothesis, we split our sample at the median of the extent to which the bottom 5% feel they are in control of their lives.<sup>24</sup> Hiroto (1974) shows that people who believe they have little or no control over their lives experience more helplessness than others. If reverse causality based on this explanation is present in our data, we would expect to see a stronger association between the bottom 5%’s preferences and actual redistribution in countries where the bottom 5% believe they have relatively less control and are thus more likely to accept their current circumstances. However, as shown in Appendix Table B.17, we find no evidence to support this hypothesis. The results are invariant to how much control low SES individuals think they have ( $p = 0.742$ ). These findings are inconsistent with the reverse causality mechanism in which lower SES individuals simply accept their fate.

**Political activism.** Lower SES individuals may be more likely to express their discontent through demonstrations, strikes, and protests, which may make policymakers more responsive to this group, especially when it comes to demands for redistribution. However, our analysis of political activism in the WVS data does not support this hypothesis. Appendix Table B.18 shows that the top 5% are more politically active, more likely to join boycotts, go on strike, attend demonstrations, and sign petitions ( $p < 0.001$ ).<sup>25</sup> Moreover, effect. Higher SES individuals may have particularly unfavorable opinions toward redistribution in countries with relatively high redistribution. This could explain the negative correlation between the top 5%’s preferences and realized redistribution.

<sup>24</sup>Specifically, we use the following question from the WVS as a measure of locus of control: *Some people feel they have completely free choice and control over their lives, while other people feel that what they do has no real effect on what happens to them.* (0: No choice at all; 9: A great deal of choice). Appendix Figure A.4 shows that lower SES individuals have weaker locus of control than higher SES individuals.

<sup>25</sup>These results are consistent with the findings of Cicatiello *et al.* (2015) and Botero *et al.* (2013), among others.

our main results are virtually unchanged when we add controls for each SES group’s level of political participation, as shown in Appendix Table B.19.

**Coalition formation.** It is possible that top SES groups tend to form coalitions with the bottom SES groups to redistribute income to themselves at the expense of middle-income voters (Iversen and Soskice, 2006). Such a coalition could account for the more pronounced correlation between the bottom 5%’s preferences and actual redistribution, and it would still be consistent with the elite capture view. To explore this possibility, we use data from the World Tax Indicators on the average tax rates for different income levels in 2005, normalized by GDP per capita (Andrew Young School of Policy Studies, 2010). We focus on the average tax rate for households with an income of one, two, three, and four times GDP per capita. For example, a household in the U.S. that earns four times GDP per capita has an annual income of \$254,000 in 2020.<sup>26</sup> If the hypothesis of a bottom-top coalition is correct, we should see a stronger relationship between the bottom 5%’s preferences and the tax rate for average income earners compared to the tax rate for top income earners. However, Appendix Table B.20 reveals that, if anything, the bottom 5%’s preferences are more strongly correlated with the top income tax rate than the tax rate for the middle class. This difference, however, is not statistically different ( $p = 0.115$ ). These findings are inconsistent with the view that lower and upper SES groups form a coalition to tax the middle class.

**Policy priorities** We believe that the most plausible mechanism for our results is that policymakers may be more responsive to the redistribution needs and preferences of the less well-off, because redistribution is a top policy priority for them. Consistent with this view, data from the WVS suggest that the bottom SES group cares the most about poverty reduction. In wave 5, the WVS asks respondents to identify the most serious problem in their country from a list of five options.<sup>27</sup> Appendix Table B.21 shows that the bottom SES

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<sup>26</sup>According to the report of the US Census Bureau, households with an annual income of \$274,000 in 2020 belong to the top 5% of the income distribution (Shrider *et al.*, 2021).

<sup>27</sup>Subjects can pick from the following choices: people living in poverty and need, discrimination against girls and women, poor sanitation and infectious diseases, inadequate education, and environmental pollution.



group cares significantly more about poverty reduction than the middle and top SES groups ( $p < 0.001$ ). Conversely, the top SES group prioritizes addressing inadequate education and environmental pollution more than the other two groups ( $p < 0.001$ ). Although this evidence is still some distance from identifying a causal mechanism for our results, it points to a promising avenue for future work.

Overall, our results challenge conventional notions of political influence, such as the median voter and elite capture views. While we cannot offer a definite causal interpretation of the results, we can narrow the set of plausible explanations for the observed pattern. The data seem to be most consistent with explanations based on policymakers responding more to the needs and preferences of the less well-off than the middle or upper class, at least in terms of redistribution, because poverty reduction (and thus redistribution) is the focal issue for low-income citizens.

### **3 Conclusion**

This paper documents the relationship between citizens' preferences for redistribution and realized redistribution in a cross-section of 93 countries. We focus on redistribution because it is an outcome for which there is inherent conflict in desired policies across socioeconomic status groups, and thus affords an opportunity to examine whose preferences are reflected in policymaking. Our main finding is that the lowest SES group's preferences are most predictive of redistribution. Controlling for preferences at the bottom of the SES distribution, neither the middle nor the top SES group's preferences have any additional explanatory power. This finding stands in contrast to the dominant notions of policy influence and also to the predictions of both expert economists and laypeople.

We see two natural directions for research based on these findings. First, given the gap between existing theories and patterns in the data (and relatedly, economists' expectations of these patterns), we hope our results will spur the development of theoretical frameworks that can accommodate the observed relationships. Second, as we acknowledge throughout,

we see our analysis as a step toward understanding the drivers of redistributive policy and government intervention more generally. We hope that future work will use more fine-grained data and causal inference methods to explore the underlying reasons for the robust correlation between lower SES preferences and policy outcomes.

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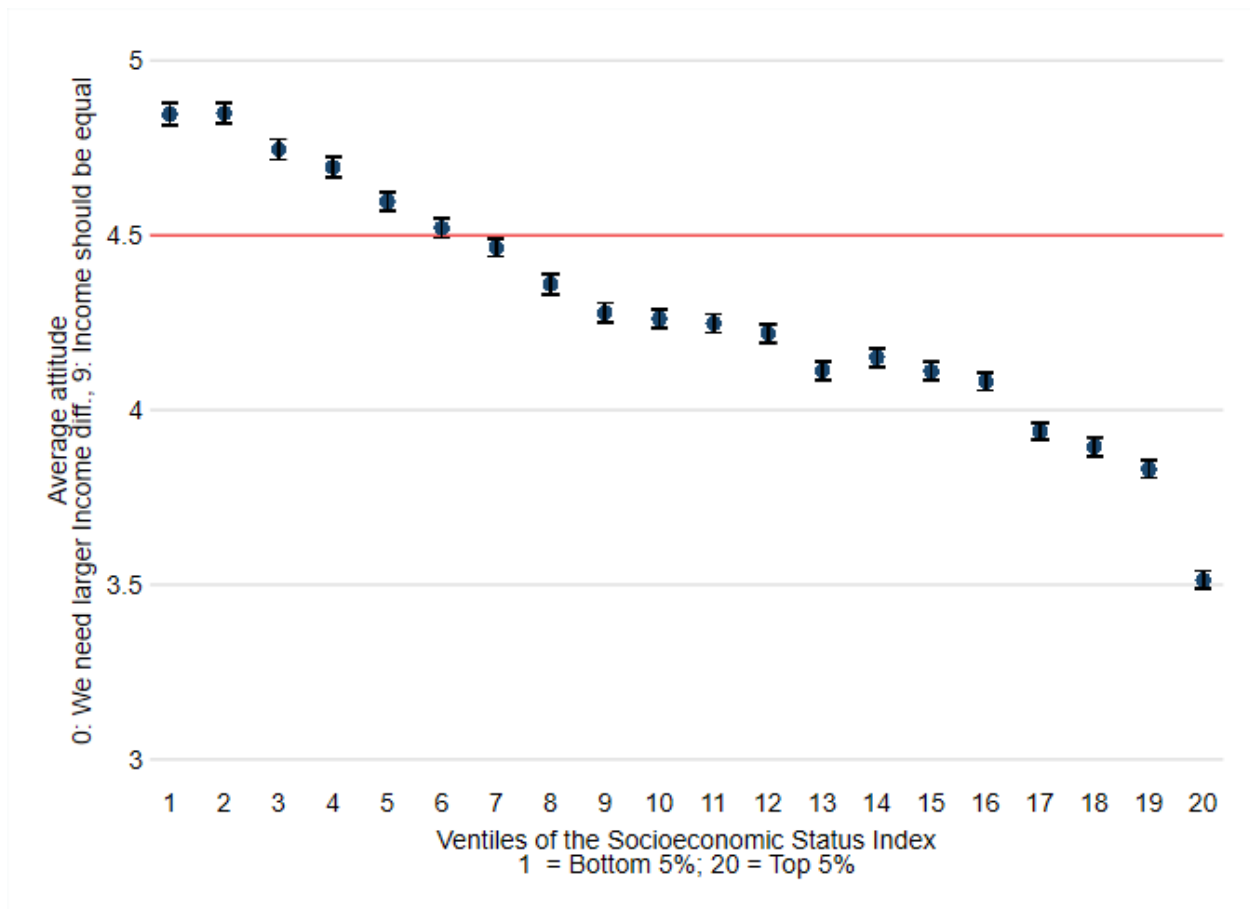
# Appendices

## For Online Publication Only

January 24, 2024

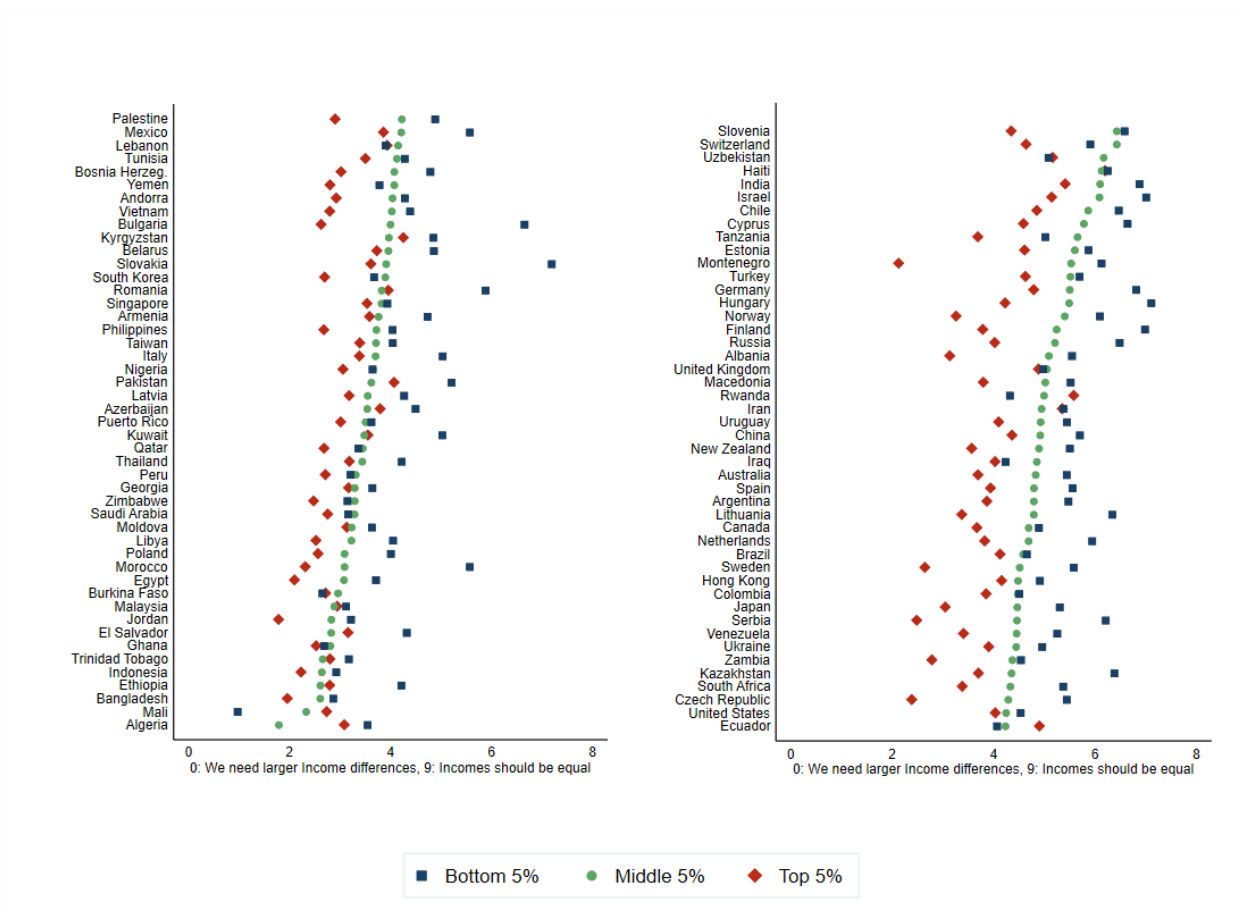
### A Figures

Figure A.1: Attitudes towards Redistribution and SES index



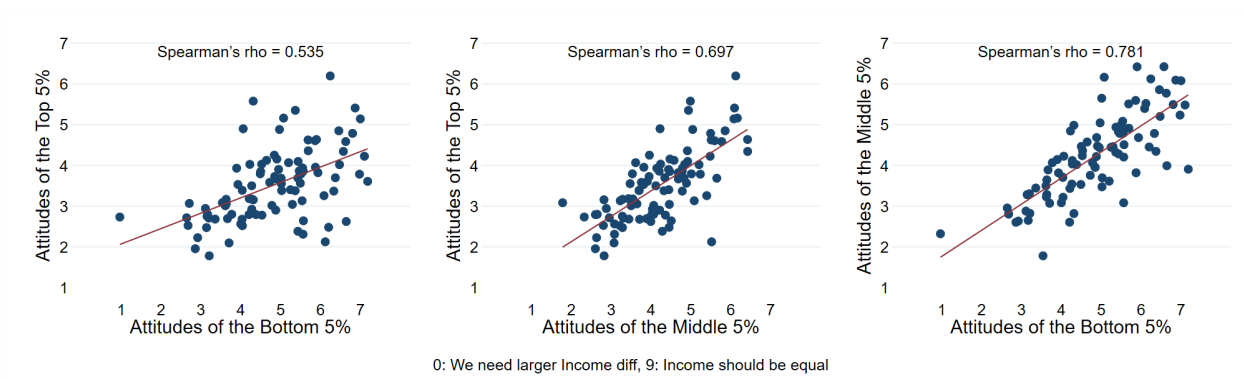
Notes: The figure shows the average preference for redistribution by ventile of the socioeconomic status index. The red horizontal line at 4.5 indicates the midpoint of the attitude scale. Error bars indicate standard errors of the mean.

Figure A.2: Country-level Attitudes towards Redistribution by SES Group



Notes: The figure shows the average preference for redistribution by socioeconomic status group for each country in our main sample.

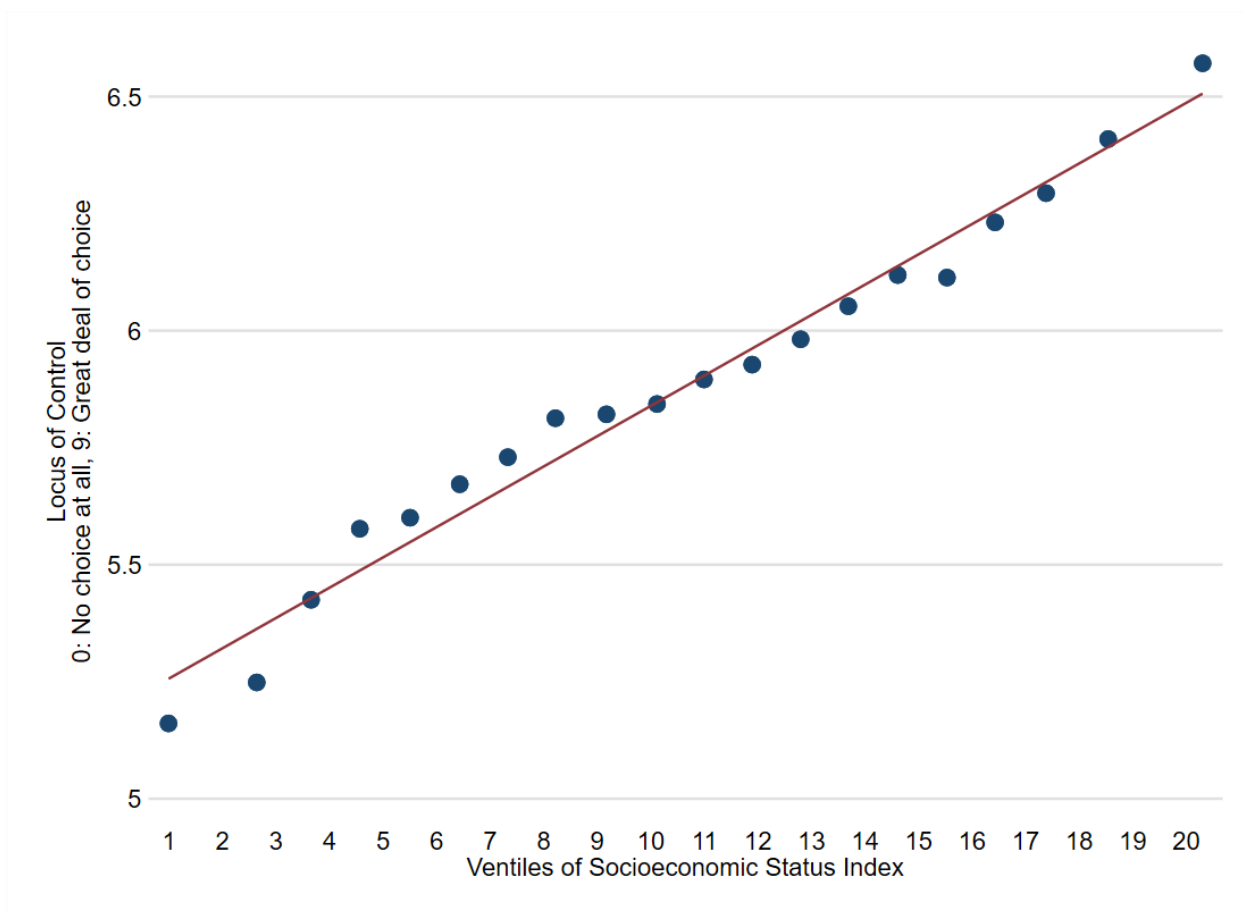
Figure A.3: Correlation of Attitudes between SES Groups



Notes: The figure shows the country-level correlations of redistributive preferences between the different socioeconomic status groups.

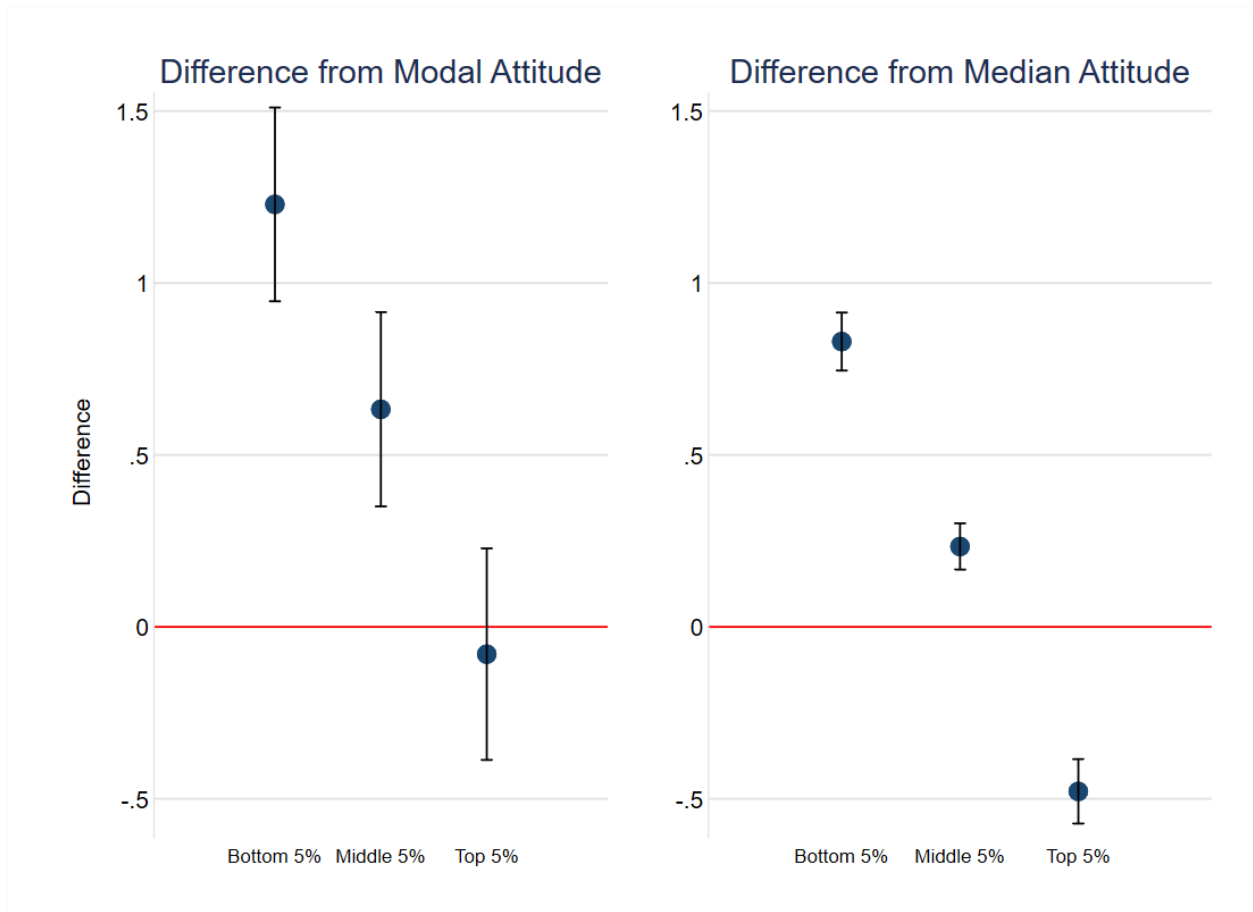


Figure A.4: Locus of Control and SES Index



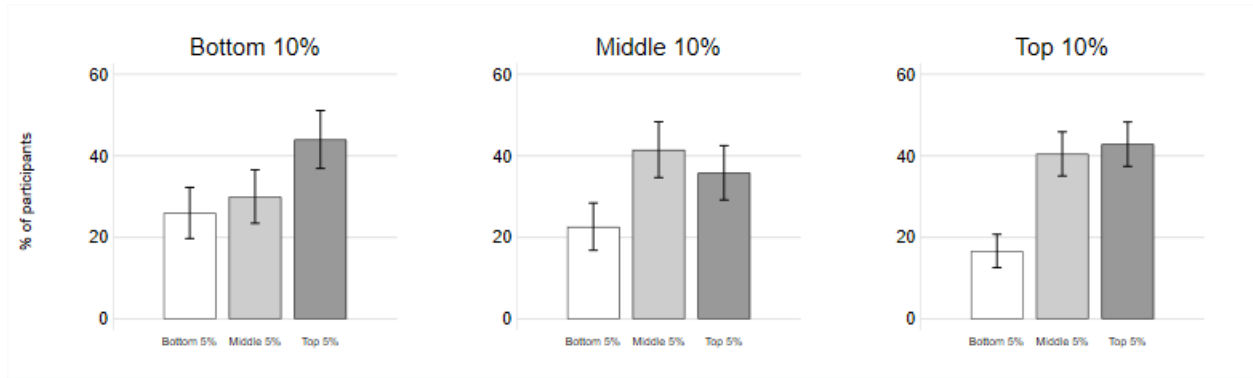
Notes: The figure shows a binned scatterplot of locus of control by ventile of the socioeconomic status index controlling for wave and country fixed effects. Locus of control is measured with the question: *Some people feel they have completely free choice and control over their lives, while other people feel that what they do has no real effect on what happens to them.* (0: No choice at all; 9: A great deal of choice).

Figure A.5: Distance to Modal and Median Attitude by SES Group



Notes: This figure shows the average difference in the redistributive preferences of the different socioeconomic status groups from the modal and the median attitude in a country. Error bars indicate bootstrapped standard errors from 1,000 replications.

Figure A.6: Predictions by SES of Laypeople



Notes: The figure shows results from the prediction study with lay people, splitting the full sample into the bottom 10%, middle 10% and top 10% of the socioeconomic status index of respondents (N=187). The socioeconomic status index was computed in the same way as in our main study. We used the same survey items as in the WVS to elicit education, income, and self-reported social class. The figure indicates the share of individuals for each social class who indicated that the relationship between that social class and actual redistribution is the strongest. Error bars indicate standard errors of the mean. See Appendix F for a detailed description of the prediction studies.

## B Tables

Table B.1: Correlates of the SES Index

	(1)	(2)	(3)	(4)
	Top income	Bottom income	Supervisor	Pol. party membership
Top 5%	0.346 (0.055)		0.267 (0.013)	0.045 (0.009)
Bottom 5%		0.380 (0.047)		
Country FE	Yes	Yes	Yes	Yes
Wave FE	Yes	Yes	Yes	Yes
Reference category mean	0.025	0.060	0.314	0.146
R-squared	0.209	0.132	0.090	0.141
N	43153	43153	106648	225728
Countries	31	31	77	89

Notes: This table reports OLS coefficient estimates with robust standard errors in parentheses. The dependent variables are household income brackets (columns 1 and 2), being in a supervising role at work (column 3), and membership in a political party (column 4). *Top 5%* and *Bottom 5%* are dummy variables for an individual belonging to the top 5% or bottom 5% regarding the socioeconomic status index of a given country. *Top income* and *Bottom income* are dummy variables referring to the top and bottom income bracket, respectively. The measure of income used for the socioeconomic status index and the measure of income brackets in a given country are different variables. *Supervisor*, and *Pol. party membership* are dummy variables for being in a supervising role at work and being member of a political party. *Reference category mean* shows the sample mean of the dependent variable for the bottom 95% (in columns 1, 3, and 4) and the top 95% (in column 2), respectively.

Table B.2: Descriptive Statistics of the SES Groups

	Bottom 5%	Middle 5%	Top 5%	N	Countries
Male	0.44 (0.50)	0.49 (0.50)	0.53 (0.50)	42,519	94
Age	47.92 (17.47)	39.31 (15.35)	38.58 (14.06)	42,488	94
Married	0.61 (0.49)	0.65 (0.48)	0.65 (0.48)	41,985	94
Children	2.42 (1.69)	1.73 (1.52)	1.47 (1.41)	41,200	93
Employed	0.35 (0.48)	0.56 (0.50)	0.70 (0.46)	41,382	94
Unemployed	0.16 (0.37)	0.09 (0.29)	0.04 (0.20)	41,382	94
Manual work	7.07 (2.56)	5.07 (2.93)	2.53 (2.68)	17,295	77
Routine work	6.86 (2.62)	5.52 (2.73)	3.79 (2.93)	17,283	77
Immigrant parent	0.09 (0.29)	0.10 (0.30)	0.10 (0.30)	20,273	72
Political left	4.36 (2.62)	4.30 (2.35)	4.12 (2.41)	30,556	88

Notes: This table shows the mean and standard deviation (in parentheses) of different background characteristics separately for each SES group. Higher values for manual work and routine work indicate that the tasks at work are more manual than cognitive and more routine than creative, respectively (measured on a 10-point scale). Immigrant parent is a dummy variable indicating that at least one parent is an immigrant. Political left measures self-reported political views using a 10-point scale, where higher values indicating political views more to the left.

Table B.3: Attitudes and Absolute Redistribution

	Absolute redistribution					
	(1)	(2)	(3)	(4)	(5)	(6)
Top 5%	1.161 (0.828)			-2.095 (0.922)	-1.652 (0.863)	-1.306 (0.850)
Middle 5%		2.796 (0.684)		0.949 (1.144)	0.432 (1.032)	-0.274 (0.999)
Bottom 5%			3.175 (0.453)	3.389 (0.797)	2.669 (0.673)	2.764 (0.656)
ln(GDP per capita)					1.095 (0.602)	1.226 (0.587)
ln(Population)					-0.852 (0.378)	-0.747 (0.334)
Democracy					4.055 (1.260)	2.956 (1.152)
Gini pre-tax						0.331 (0.099)
Constant	3.958 (2.930)	-3.740 (2.671)	-7.277 (2.041)	-4.970 (2.761)	-10.623 (5.731)	-24.982 (6.439)
F-stat p-val	0.161	0.000	0.000	0.000	0.000	0.000
R-squared	0.021	0.157	0.301	0.332	0.484	0.572
N	94	93	94	93	91	91

Notes: This table reports OLS coefficient estimates with bootstrapped standard errors from 1,000 replications in parentheses. The dependent variable is the measure for absolute redistribution. Missing values for absolute redistribution are imputed using the estimates for pre-tax and post-tax Gini coefficients. See Appendix D for a detailed description of the control variables.

Table B.4: Persistence of Preferences for Redistribution

	Preferences for redistribution								
	(1) Top5%	(2) Mid5%	(3) Bot5%	(4) Top10%	(5) Mid10%	(6) Bot10%	(7) Top33%	(8) Mid33%	(9) Bot33%
First year	0.545 (0.122)	0.584 (0.123)	0.677 (0.101)	0.615 (0.114)	0.609 (0.126)	0.611 (0.108)	0.694 (0.125)	0.707 (0.111)	0.608 (0.112)
Time gap	0.057 (0.012)	0.047 (0.013)	0.056 (0.015)	0.060 (0.012)	0.054 (0.012)	0.052 (0.014)	0.063 (0.011)	0.057 (0.011)	0.048 (0.013)
Constant	1.526 (0.409)	1.669 (0.501)	1.430 (0.496)	1.319 (0.394)	1.567 (0.510)	1.742 (0.505)	1.060 (0.450)	1.136 (0.433)	1.678 (0.490)
F-stat p-val	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
R-squared	0.305	0.324	0.460	0.369	0.367	0.449	0.432	0.493	0.431
N	95	95	95	95	95	95	95	95	95

Notes: This table reports OLS coefficient estimates with bootstrapped standard errors from 1,000 replications in parentheses. The dependent variable is the measure redistributive preferences in the last available survey year for the socioeconomic group indicated in the column header. *First year* measures redistribution preferences in the first available survey year. *Time gap* is the number of years between the first and last available survey year.

Table B.5: Split Sample Analysis by Waves

	Wave 3 & 4		Wave 5 & 6	
	(1)	(2)	(3)	(4)
Top 5%	-2.017 (3.192)	-1.318 (2.618)	-7.556 (2.066)	-4.785 (1.918)
Middle 5%	-1.542 (3.811)	-3.420 (2.984)	5.105 (2.199)	2.692 (2.169)
Bottom 5%	6.606 (2.336)	5.553 (1.864)	6.019 (1.779)	4.827 (1.723)
ln(GDP per capita)		4.690 (1.773)		2.861 (1.623)
ln(Population)		-2.409 (0.946)		-1.934 (0.738)
Democracy		4.616 (3.929)		2.349 (3.254)
Gini pre-tax		0.476 (0.313)		0.595 (0.299)
Constant	-0.453 (7.391)	-49.642 (22.155)	-7.155 (5.485)	-49.615 (20.037)
F-stat p-val	0.001	0.000	0.000	0.000
R-squared	0.186	0.459	0.358	0.548
N	62	62	76	74

Notes: This table reports OLS coefficient estimates with bootstrapped standard errors from 1,000 replications in parentheses. The dependent variable is relative redistribution, defined as the difference between pre-tax and post-tax Gini index, scaled by pre-tax Gini. This measure can be interpreted as the percentage change in income inequality caused by government intervention (i.e., taxes and transfers), with higher values indicating more redistribution. The variables *Top 5%*, *Middle 5%*, and *Bottom 5%* reflect the redistributive preferences of different socioeconomic status groups. Socioeconomic status groups are defined as the bottom 5%, middle 5%, and top 5% of respondents based on our socioeconomic status index. We show the main results only using survey data from waves 3 and 4 in column 3. The time period of the measure of relative redistribution (2005) and the control variables (1994) is chosen accordingly. We show the main results only using survey data from waves 5 and 6 in column 4. We again choose the corresponding time period for the measure of relative redistribution (2015) and the control variables (2004). Missing values for relative redistribution are imputed using the estimates for pre-tax and post-tax Gini coefficients. See Appendix D for a detailed description of the control variables.



Table B.6: Attitudes and Relative Redistribution: 10% Groups

	Relative redistribution					
	(1)	(2)	(3)	(4)	(5)	(6)
Top 10%	2.925 (1.686)			-7.299 (2.466)	-4.569 (2.272)	-4.022 (2.319)
Middle 10%		6.404 (1.352)		4.699 (3.291)	1.462 (2.989)	0.276 (2.955)
Bottom 10%			6.728 (1.114)	7.000 (2.010)	6.464 (1.812)	6.679 (1.778)
ln(GDP per capita)					2.592 (1.170)	2.808 (1.184)
ln(Population)					-2.132 (0.781)	-1.962 (0.731)
Democracy					5.938 (2.580)	4.371 (2.581)
Gini pre-tax						0.518 (0.248)
Constant	6.418 (6.039)	-10.144 (5.364)	-14.963 (4.916)	-9.857 (5.369)	-24.026 (10.548)	-46.704 (14.647)
F-stat p-val	0.083	0.000	0.000	0.000	0.000	0.000
R-squared	0.030	0.177	0.270	0.336	0.475	0.526
N	95	95	95	95	93	93

Notes: This table reports OLS coefficient estimates with bootstrapped standard errors from 1,000 replications in parentheses. The dependent variable is relative redistribution, defined as the difference between pre-tax and post-tax Gini index, scaled by pre-tax Gini. This measure can be interpreted as the percentage change in income inequality caused by government intervention (i.e., taxes and transfers), with higher values indicating more redistribution. The variables *Top 10%*, *Middle 10%*, and *Bottom 10%* reflect the redistributive preferences of different socioeconomic status groups. Socioeconomic status groups are defined as the bottom 10%, middle 10%, and top 10% of respondents based on our socioeconomic status index. Missing values for relative redistribution are imputed using the estimates for pre-tax and post-tax Gini coefficients. See Appendix D for a detailed description of the control variables.

Table B.7: Attitudes and Relative Redistribution: Tercile Groups

	Relative redistribution					
	(1)	(2)	(3)	(4)	(5)	(6)
Top 33%	4.389 (1.662)			-10.545 (3.489)	-7.424 (3.311)	-7.416 (3.480)
Middle 33%		6.160 (1.428)		-0.253 (5.203)	-2.448 (5.065)	-3.097 (5.070)
Bottom 33%			7.215 (1.214)	15.113 (3.230)	13.109 (3.190)	13.233 (3.214)
ln(GDP per capita)					2.231 (1.114)	2.445 (1.114)
ln(Population)					-2.128 (0.729)	-1.889 (0.693)
Democracy					6.319 (2.372)	4.527 (2.364)
Gini pre-tax						0.541 (0.239)
Constant	0.241 (6.055)	-8.679 (5.510)	-15.743 (5.083)	-10.345 (5.266)	-21.715 (9.875)	-45.377 (13.797)
F-stat p-val	0.008	0.000	0.000	0.000	0.000	0.000
R-squared	0.069	0.162	0.258	0.367	0.503	0.559
N	95	95	95	95	93	93

Notes: This table reports OLS coefficient estimates with bootstrapped standard errors from 1,000 replications in parentheses. The dependent variable is relative redistribution, defined as the difference between pre-tax and post-tax Gini index, scaled by pre-tax Gini. This measure can be interpreted as the percentage change in income inequality caused by government intervention (i.e., taxes and transfers), with higher values indicating more redistribution. The variables *Top 33%*, *Middle 33%*, and *Bottom 33%* reflect the redistributive preferences of different socioeconomic status groups. Socioeconomic status groups are defined as the bottom 33%, middle 33%, and top 33% of respondents based on our socioeconomic status index. Missing values for relative redistribution are imputed using the estimates for pre-tax and post-tax Gini coefficients. See Appendix D for a detailed description of the control variables.

Table B.8: Attitudes and Relative Redistribution: Non-imputed Values

	Relative redistribution (non-imputed)					
	(1)	(2)	(3)	(4)	(5)	(6)
Top 5%	-2.647 (2.638)			-9.732 (2.991)	-5.330 (2.752)	-4.878 (2.656)
Middle 5%		4.245 (2.256)		4.335 (3.228)	-1.115 (3.084)	-0.823 (3.059)
Bottom 5%			6.823 (1.655)	7.286 (2.463)	7.734 (2.097)	6.574 (2.031)
ln(GDP per capita)					7.786 (2.966)	7.531 (2.431)
ln(Population)					-2.129 (1.085)	-2.306 (0.985)
Democracy					2.492 (5.894)	2.466 (5.238)
Gini pre-tax						0.850 (0.364)
Constant	32.600 (10.177)	3.217 (10.311)	-14.044 (8.904)	0.236 (10.433)	-61.151 (28.988)	-94.322 (24.719)
F-stat p-val	0.316	0.060	0.000	0.000	0.000	0.000
R-squared	0.018	0.054	0.197	0.331	0.538	0.660
N	50	50	50	50	50	50

Notes: This table reports OLS coefficient estimates with bootstrapped standard errors from 1,000 replications in parentheses. The dependent variable is the measure for relative redistribution reported in the SWIID, i.e., missing values are not imputed. The variables *Top 5%*, *Middle 5%*, and *Bottom 5%* reflect the redistributive preferences of different socioeconomic status groups. Socioeconomic status groups are defined as the bottom 5%, middle 5%, and top 5% of respondents based on our socioeconomic status index. See Appendix D for a detailed description of the control variables.

Table B.9: Attitudes and Relative Redistribution: Excluding Negative Redistribution

	Relative redistribution					
	(1)	(2)	(3)	(4)	(5)	(6)
Top 5%	2.143 (1.699)			-4.808 (1.994)	-3.729 (1.816)	-3.399 (1.849)
Middle 5%		5.943 (1.281)		2.911 (2.065)	1.439 (2.082)	0.701 (2.149)
Bottom 5%			6.460 (0.952)	6.437 (1.379)	5.468 (1.324)	5.591 (1.373)
ln(GDP per capita)					1.880 (1.181)	2.064 (1.205)
ln(Population)					-1.531 (0.727)	-1.471 (0.704)
Democracy					7.527 (2.420)	6.431 (2.437)
Gini pre-tax						0.297 (0.220)
Constant	10.490 (5.888)	-6.981 (5.106)	-13.238 (4.241)	-8.488 (5.624)	-18.520 (10.740)	-31.715 (14.352)
F-stat p-val	0.207	0.000	0.000	0.000	0.000	0.000
R-squared	0.019	0.183	0.329	0.370	0.499	0.515
N	91	90	91	90	88	88

Notes: This table reports OLS coefficient estimates with bootstrapped standard errors from 1,000 replications in parentheses. The dependent variable is relative redistribution, defined as the difference between pre-tax and post-tax Gini index, scaled by pre-tax Gini. This measure can be interpreted as the percentage change in income inequality caused by government intervention (i.e., taxes and transfers), with higher values indicating more redistribution. The variables *Top 5%*, *Middle 5%*, and *Bottom 5%* reflect the redistributive preferences of different socioeconomic status groups. Socioeconomic status groups are defined as the bottom 5%, middle 5%, and top 5% of respondents based on our socioeconomic status index. We exclude countries with negative relative redistribution (Indonesia, Ukraine, and Tanzania). Missing values for relative redistribution are imputed using the estimates for pre-tax and post-tax Gini coefficients. See Appendix D for a detailed description of the control variables.

Table B.10: SES Groups using Income Values

	Relative redistribution					
	(1)	(2)	(3)	(4)	(5)	(6)
Top income	4.846 (2.561)			0.020 (3.370)	0.445 (2.988)	-0.452 (2.611)
Middle income		6.425 (1.505)		-1.802 (3.966)	-2.164 (3.745)	0.049 (3.535)
Bottom income			5.950 (1.022)	7.983 (2.849)	6.599 (2.916)	4.770 (2.947)
ln(GDP per capita)					4.402 (2.073)	4.496 (2.072)
ln(Population)					-2.333 (1.042)	-2.308 (0.981)
Democracy					6.566 (3.603)	4.987 (3.733)
Gini pre-tax						0.534 (0.322)
Constant	2.330 (8.928)	-10.034 (6.174)	-10.342 (4.487)	-11.710 (10.679)	-42.850 (19.529)	-64.927 (22.569)
F-stat p-val	0.059	0.000	0.000	0.000	0.000	0.000
R-squared	0.081	0.153	0.231	0.250	0.420	0.479
N	59	97	93	56	56	56

Notes: This table reports OLS coefficient estimates with bootstrapped standard errors from 1,000 replications in parentheses. The dependent variable is relative redistribution, defined as the difference between pre-tax and post-tax Gini index, scaled by pre-tax Gini. This measure can be interpreted as the percentage change in income inequality caused by government intervention (i.e., taxes and transfers), with higher values indicating more redistribution. The variables *Top income*, *Middle income*, and *Bottom income* reflect the redistributive preferences of different socioeconomic status groups. Socioeconomic status groups are defined using household income measured on a 10-point scale. We define the top, middle, and bottom SES groups based on the response options 1 (*Bottom income*), 5 (*Middle income*), and 10 (*Top income*), respectively. Missing values for relative redistribution are imputed using the estimates for pre-tax and post-tax Gini coefficients. See Appendix D for a detailed description of the control variables.

Table B.11: Split Sample Analysis by Democracy

	Democratic		Nondemocratic	
	(1)	(2)	(3)	(4)
Top 5%	-8.146 (3.108)	-4.512 (2.577)	-1.254 (2.109)	0.024 (2.398)
Middle 5%	2.746 (3.066)	-1.698 (2.822)	0.248 (2.828)	-1.722 (3.173)
Bottom 5%	7.447 (2.151)	6.238 (2.151)	4.274 (2.041)	5.529 (2.027)
ln(GDP per capita)		6.608 (1.951)		-1.143 (1.026)
ln(Population)		-2.010 (0.994)		-2.390 (0.863)
Gini pre-tax		0.584 (0.320)		0.352 (0.281)
Constant	1.348 (8.500)	-67.080 (22.695)	-6.271 (6.704)	-7.299 (14.285)
F-stat p-val	0.000	0.000	0.078	0.003
R-squared	0.320	0.549	0.241	0.456
N	58	57	35	34

Notes: This table reports OLS coefficient estimates with bootstrapped standard errors from 1,000 replications in parentheses. The dependent variable is relative redistribution, defined as the difference between pre-tax and post-tax Gini index, scaled by pre-tax Gini. This measure can be interpreted as the percentage change in income inequality caused by government intervention (i.e., taxes and transfers), with higher values indicating more redistribution. The variables *Top 5%*, *Middle 5%*, and *Bottom 5%* reflect the redistributive preferences of different socioeconomic status groups. Socioeconomic status groups are defined as the bottom 5%, middle 5%, and top 5% of respondents based on our socioeconomic status index. We split the sample into democratic and nondemocratic countries, following Acemoglu *et al.* (2019). Missing values for relative redistribution are imputed using the estimates for pre-tax and post-tax Gini coefficients. See Appendix D for a detailed description of the control variables.

Table B.12: Attitudes and Relative Redistribution: Polity IV Democracy Measure

	Relative redistribution		
	(1) Full sample	(2) Democ.	(3) NonDemoc.
Top 5%	-1.919 (2.023)	-1.995 (2.794)	1.206 (2.709)
Middle 5%	-1.279 (2.314)	-3.888 (3.700)	-2.247 (2.987)
Bottom 5%	5.727 (1.428)	5.066 (2.167)	5.385 (1.878)
ln(GDP per capita)	2.956 (1.256)	8.306 (1.872)	-0.649 (1.116)
ln(Population)	-1.772 (0.725)	-2.365 (1.138)	-1.817 (0.947)
Gini pre-tax	0.570 (0.266)	0.706 (0.322)	0.314 (0.251)
Democracy	5.841 (2.778)		
Constant	-48.310 (15.820)	-79.753 (22.071)	-12.458 (14.748)
F-stat p-val	0.000	0.000	0.012
R-squared	0.545	0.586	0.371
N	89	53	36

Notes: This table reports OLS coefficient estimates with bootstrapped standard errors from 1,000 replications in parentheses. The dependent variable is relative redistribution, defined as the difference between pre-tax and post-tax Gini index, scaled by pre-tax Gini. This measure can be interpreted as the percentage change in income inequality caused by government intervention (i.e., taxes and transfers), with higher values indicating more redistribution. The variables *Top 5%*, *Middle 5%*, and *Bottom 5%* reflect the redistributive preferences of different socioeconomic status groups. Socioeconomic status groups are defined as the bottom 5%, middle 5%, and top 5% of respondents based on our socioeconomic status index. We show the main results using the Polity IV score as an alternative measure for democratization in column 1. We classify a country as democratic if the Polity IV score is equal or larger than 6. We split the sample using this measure of democracy in columns 2 and 3. Missing values for relative redistribution are imputed using the estimates for pre-tax and post-tax Gini coefficients. See Appendix D for a detailed description of the control variables.

Table B.13: Alternative Measures of Preferences

	Attitude inequality (change)		Perception top taxes (change)		Attitude redistribution (level)		Attitude top taxes (level)	
	(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)
Top 5%	-23.371 (5.605)	-17.940 (4.719)	-21.386 (6.866)	-12.170 (5.030)	-27.620 (7.684)	-14.852 (4.737)	-39.258 (11.788)	-22.787 (11.240)
Middle 5%	10.059 (11.112)	14.272 (7.716)	-16.947 (8.860)	3.615 (7.595)	7.014 (11.194)	5.449 (8.722)	-17.621 (17.480)	-7.481 (11.195)
Bottom 5%	16.942 (9.686)	9.139 (6.005)	30.885 (8.852)	18.761 (6.816)	22.861 (9.583)	15.611 (8.724)	30.427 (13.587)	23.924 (9.006)
ln(GDP per capita)		7.253 (3.049)		9.719 (3.570)		7.746 (3.911)		10.979 (3.220)
ln(Population)		-2.799 (0.843)		-2.405 (0.876)		-2.419 (0.908)		-2.201 (1.224)
Democracy		-2.643 (4.845)		-2.023 (5.285)		1.555 (5.443)		0.020 (5.314)
Gini pre-tax		1.049 (0.458)		1.301 (0.461)		0.775 (0.456)		0.738 (0.469)
Constant	5.483 (29.616)	-103.844 (36.392)	31.288 (22.668)	-147.859 (42.046)	0.153 (20.501)	-105.059 (41.531)	93.909 (45.225)	-93.280 (53.589)
Top=Middle	0.034	0.006	0.740	0.104	0.052	0.105	0.406	0.432
Top=Bottom	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.001
Middle=Bottom	0.703	0.678	0.002	0.231	0.419	0.530	0.087	0.079
F-stat p-val	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
R-squared	0.384	0.752	0.357	0.761	0.494	0.740	0.373	0.733
N	41	41	39	39	41	41	41	41

Notes: This table reports OLS estimates using different measures of redistributive preferences from the ISSP data (bootstrapped standard errors from 1,000 replications in parentheses). The first two measures (Attitude inequality and Perception top taxes) are based on questions about income differences and taxation (“Differences in income in <country> are too large 0: Strongly disagree, 4: Strongly agree”; “Generally, how would you describe taxes in <country> today for those with high incomes? 0: Much too high, 4: Much too low”). The other two measures (Attitude redistribution and Attitude top taxes) correspond more closely to desired levels of redistribution as the questions ask about redistributive concerns in absolute terms (“It is the responsibility of the government to reduce the differences in income between people with high incomes and those with low incomes. 0: Strongly disagree, 4: Strongly agree”; “Do you think people with high incomes should pay a larger share of their income in taxes than those with low incomes, the same share, or a smaller share? 0: Much smaller, 4: Much larger”). The dependent variable is relative redistribution, defined as the difference between pre-tax and post-tax Gini index, scaled by pre-tax Gini. This measure can be interpreted as the percentage change in income inequality caused by government intervention (i.e., taxes and transfers), with higher values indicating more redistribution. The variables *Top 5%*, *Middle 5%*, and *Bottom 5%* reflect the redistributive preferences of different socioeconomic status groups. Socioeconomic status groups are defined as the bottom 5%, middle 5%, and top 5% of respondents based on our socioeconomic status index. The p-values from the Wald test comparing the coefficients of the different socioeconomic status groups are shown at the bottom of the table. Missing values for relative redistribution are imputed using the estimates for pre-tax and post-tax Gini coefficients. See Appendix D for a detailed description of the control variables.



Table B.14: Correlation of Alternative Preference Measures

	Att. inequality	Perc. top taxes	Att. redistribution	Att. top taxes
<b><i>Panel A: Top 5%</i></b>				
Att. inequality	1			
Perc. top taxes	0.417	1		
Att. redistribution	0.768	0.363	1	
Att. top taxes	0.416	0.430	0.492	1
<b><i>Panel B: Middle 5%</i></b>				
Att. inequality	1			
Perc. top taxes	0.322	1		
Att. redistribution	0.849	0.207	1	
Att. top taxes	0.693	0.369	0.599	1
<b><i>Panel C: Bottom 5%</i></b>				
Att. inequality	1			
Perc. top taxes	0.300	1		
Att. redistribution	0.801	0.324	1	
Att. top taxes	0.508	0.384	0.539	1

Notes: This table reports the correlation coefficients of the different preference measures across countries using the ISSP data. Panel A shows the correlation of preferences for the top 5%, Panel B for the middle 5%, and Panel C for the bottom 5%. The first two measures (Attitude inequality and Perception top taxes) are based on questions about income differences and taxation (“Differences in income in <country> are too large 0: Strongly disagree, 4: Strongly agree”; “Generally, how would you describe taxes in <country> today for those with high incomes? 0: Much too high, 4: Much too low”). The other two measures (Attitude redistribution and Attitude top taxes) correspond more closely to desired levels of redistribution as the questions ask about redistributive concerns in absolute terms (“It is the responsibility of the government to reduce the differences in income between people with high incomes and those with low incomes. 0: Strongly disagree, 4: Strongly agree”; “Do you think people with high incomes should pay a larger share of their income in taxes than those with low incomes, the same share, or a smaller share? 0: Much smaller, 4: Much larger”).

Table B.15: Alternative Measures of Redistribution

	Tax non-mineral		Redistribution Index 2	
	(1)	(2)	(3)	(4)
Top 5%	-2.096 (1.393)	-1.828 (1.271)	-0.454 (0.261)	-0.312 (0.225)
Middle 5%	1.975 (1.584)	1.286 (1.392)	0.089 (0.274)	-0.021 (0.246)
Bottom 5%	3.561 (1.153)	2.348 (0.921)	0.887 (0.184)	0.664 (0.154)
ln(GDP per capita)		0.914 (0.929)		0.338 (0.160)
ln(Population)		-0.185 (0.486)		-0.148 (0.090)
Democracy		7.670 (1.707)		1.053 (0.300)
Gini pre-tax		0.135 (0.136)		-0.016 (0.024)
Constant	1.870 (3.745)	-8.485 (8.482)	-3.100 (0.707)	-4.544 (1.590)
F-stat p-val	0.000	0.000	0.000	0.000
R-squared	0.300	0.482	0.364	0.521
N	88	88	87	87

Notes: This table reports OLS coefficient estimates with bootstrapped standard errors from 1,000 replications in parentheses. In columns 1 and 2, the dependent variable is non-mineral taxes in percent of GDP. The dependent variable in columns 3 and 4 is a redistribution index, computed as the first principal component of the post-tax Gini, non-mineral taxes, social security taxes, and our measure of relative redistribution. The variables *Top 5%*, *Middle 5%*, and *Bottom 5%* reflect the redistributive preferences of different socioeconomic status groups. Socioeconomic status groups are defined as the bottom 5%, middle 5%, and top 5% of respondents based on our socioeconomic status index. *Social security* is missing for Vietnam. *Taxes non-mineral* exclude taxes from mineral revenues and social security contributions. See Appendix D for a detailed description of the control variables.

Table B.16: Main Results with Additional Controls

	Relative redistribution					
	(1)	(2)	(3)	(4)	(5)	(6)
Top 5%	-2.655 (1.834)	-2.505 (1.942)	-3.729 (2.345)	-2.401 (2.146)	-2.653 (2.402)	-0.777 (1.672)
Middle 5%	-0.747 (2.314)	-0.763 (2.214)	1.148 (2.561)	-0.698 (2.261)	-0.183 (2.395)	-1.549 (2.012)
Bottom 5%	6.052 (1.414)	5.930 (1.485)	5.346 (1.683)	5.546 (1.433)	5.241 (1.660)	4.829 (1.427)
ln(GDP per capita)	2.536 (1.250)	2.856 (1.342)	2.552 (1.537)	2.394 (1.355)	2.068 (1.628)	2.256 (1.199)
ln(Population)	-1.760 (0.700)	-1.742 (0.709)	-1.939 (0.843)	-1.801 (0.694)	-1.703 (0.828)	-1.558 (0.709)
Democracy	5.761 (2.724)	5.342 (2.802)	4.019 (3.309)	5.287 (2.839)	5.029 (3.484)	3.847 (2.586)
Gini pre-tax	0.517 (0.257)	0.551 (0.277)	0.536 (0.309)	0.634 (0.246)	0.615 (0.296)	0.640 (0.232)
Confidence in government		0.217 (3.460)			3.252 (3.665)	
Moral Universalism			2.848 (5.699)		3.902 (6.300)	
Ethnic fractionalization				-8.944 (5.255)	-12.506 (6.026)	
Constant	-43.923 (15.433)	-48.059 (19.414)	-40.433 (22.467)	-42.065 (15.661)	-37.034 (26.143)	-43.673 (14.396)
Legal origin FE	No	No	No	No	No	Yes
F-stat p-val	0.000	0.000	0.000	0.000	0.000	0.000
R-squared	0.529	0.531	0.533	0.575	0.581	0.615
N	91	89	75	87	73	91

Notes: This table reports OLS coefficient estimates with bootstrapped standard errors from 1,000 replications in parentheses. The dependent variable is relative redistribution, defined as the difference between pre-tax and post-tax Gini index, scaled by pre-tax Gini. This measure can be interpreted as the percentage change in income inequality caused by government intervention (i.e., taxes and transfers), with higher values indicating more redistribution. The variables Top 5%, Middle 5%, and Bottom 5% reflect the redistributive preferences of different socioeconomic status groups. Socioeconomic status groups are defined as the bottom 5%, middle 5%, and top 5% of respondents based on our socioeconomic status index. Missing values for realized redistribution are imputed using the estimates for pre-tax and post-tax Gini coefficients. The inclusion of fixed effects for English, French, German, and Scandinavian legal origin is indicated at the bottom of the table. See Appendix D for a detailed description of the control variables.

Table B.17: Split Sample Analysis by Locus of Control

	Low LOC (Bottom 5%)			High LOC (Bottom 5%)		
	(1)	(2)	(3)	(4)	(5)	(6)
Top 5%	-3.326 (2.304)	-2.037 (2.496)	-1.903 (2.596)	-6.683 (3.164)	-4.433 (3.098)	-3.417 (3.034)
Middle 5%	-1.949 (2.856)	-3.483 (2.557)	-4.511 (2.719)	4.383 (4.414)	4.408 (3.840)	2.888 (3.992)
Bottom 5%	7.272 (1.838)	5.649 (1.794)	5.713 (1.869)	8.742 (3.476)	5.921 (3.149)	6.705 (3.147)
ln(GDP per capita)		2.989 (1.767)	2.928 (1.977)		4.123 (2.093)	4.128 (2.118)
ln(Population)		-3.250 (1.126)	-2.734 (1.052)		-0.875 (0.969)	-1.094 (0.995)
Democracy		8.122 (3.549)	7.413 (3.690)		6.002 (3.453)	3.197 (3.549)
Gini pre-tax			0.462 (0.372)			0.575 (0.329)
Constant	2.259 (8.348)	-8.805 (15.250)	-26.831 (21.827)	-21.295 (6.515)	-55.067 (20.283)	-79.101 (22.020)
F-stat p-val	0.000	0.000	0.000	0.000	0.000	0.000
R-squared	0.294	0.503	0.558	0.473	0.634	0.668
N	46	46	46	45	43	43

Notes: This table reports OLS coefficient estimates with bootstrapped standard errors from 1,000 replications in parentheses. The dependent variable is relative redistribution, defined as the difference between pre-tax and post-tax Gini index, scaled by pre-tax Gini. This measure can be interpreted as the percentage change in income inequality caused by government intervention (i.e., taxes and transfers), with higher values indicating more redistribution. The variables *Top 5%*, *Middle 5%*, and *Bottom 5%* reflect the redistributive preferences of different socioeconomic status groups. Socioeconomic status groups are defined as the bottom 5%, middle 5%, and top 5% of respondents based on our socioeconomic status index. We split the sample into countries where the bottom 5% have a low average locus of control (columns 1 to 3) and a high average locus of control (columns 4 to 6). Missing values for relative redistribution are imputed using the estimates for pre-tax and post-tax Gini coefficients. See Appendix D for a detailed description of the control variables.

Table B.18: SES Groups and Political Activism

	(1)	(2)	(3)	(4)	(5)
	Boycotts	Strike	Demonstration	Petition	Index
Top 5%	0.047 (0.007)	0.022 (0.005)	0.061 (0.009)	0.102 (0.010)	0.328 (0.042)
Middle 5%	-0.003 (0.002)	-0.000 (0.003)	-0.004 (0.003)	-0.004 (0.004)	-0.021 (0.015)
Bottom 5%	-0.039 (0.005)	-0.023 (0.004)	-0.054 (0.005)	-0.079 (0.009)	-0.288 (0.025)
Wave FE	Yes	Yes	Yes	Yes	Yes
Country FE	Yes	Yes	Yes	Yes	Yes
R-squared	0.052	0.040	0.046	0.243	0.089
N	214491	162881	218046	219430	152972
Countries	87	80	88	90	79

Notes: This table reports OLS coefficient estimates with standard errors clustered at the country level in parentheses. The dependent variables are dummy variables for joining boycotts (column 1), joining strikes (column 2), attending peaceful demonstrations (column 3), and signing a petition (column 4), and an index based on the first principal component of these four variables (column 5). *Top 5%*, *Middle 5%*, and *Bottom 5%* are dummy variables for an individual belonging to the top 5%, the middle 5%, or the bottom 5% regarding the socioeconomic status index of a given country.

Table B.19: Including Controls for Political Activism of SES Groups

	(1)	(2)	(3)	(4)
Top 5%	-4.293 (1.929)	-3.682 (2.141)	-3.103 (2.051)	-3.040 (2.009)
Middle 5%	1.529 (2.425)	-1.492 (2.816)	-2.515 (2.354)	-3.060 (2.256)
Bottom 5%	7.277 (1.605)	7.706 (1.673)	6.854 (1.453)	6.822 (1.441)
Polit. activ. Top 5%		3.021 (3.784)	1.544 (4.144)	-0.096 (4.127)
Polit. activ. Middle 5%		6.761 (6.861)	3.570 (6.447)	1.902 (6.636)
Polit. activ. Bottom 5%		3.168 (6.328)	5.708 (5.924)	7.079 (5.632)
ln(GDP per capita)			1.902 (1.744)	2.870 (1.781)
ln(Population)			-2.833 (0.836)	-2.577 (0.809)
Democracy			4.812 (3.136)	3.909 (3.014)
Gini pre-tax				0.489 (0.282)
Constant	-9.441 (5.707)	-1.075 (6.859)	-5.208 (15.751)	-32.603 (22.055)
F-stat p-val	0.000	0.000	0.000	0.000
R-squared	0.332	0.437	0.574	0.614
N	93	78	77	77

Notes: This table reports OLS coefficient estimates with bootstrapped standard errors from 1,000 replications in parentheses. The dependent variable is relative redistribution, defined as the difference between pre-tax and post-tax Gini index, scaled by pre-tax Gini. This measure can be interpreted as the percentage change in income inequality caused by government intervention (i.e., taxes and transfers), with higher values indicating more redistribution. The variables *Top 5%*, *Middle 5%*, and *Bottom 5%* reflect the redistributive preferences of different socioeconomic status groups. Socioeconomic status groups are defined as the bottom 5%, middle 5%, and top 5% of respondents based on our socioeconomic status index. Missing values for relative redistribution are imputed using the estimates for pre-tax and post-tax Gini coefficients. We control the political activism of the socioeconomic status groups. Political activism is the first principal component of the four variables shown in Table B.18. See Appendix D for a detailed description of the control variables.

Table B.20: Attitudes and Average Tax Rates

	Avg. tax rate for incomes = 4x GDP p.c.		Avg. tax rate for incomes = 3x GDP p.c.		Avg. tax rate for incomes = 2x GDP p.c.		Avg. tax rate for incomes = GDP p.c.	
	(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)
Top 5%	-2.113 (1.914)	-2.247 (1.624)	-2.103 (1.746)	-2.117 (1.495)	-1.720 (1.520)	-1.804 (1.333)	-1.136 (1.083)	-1.204 (1.037)
Middle 5%	2.428 (2.232)	0.798 (2.281)	2.080 (2.090)	0.498 (2.137)	1.768 (1.826)	0.517 (1.877)	1.314 (1.289)	0.390 (1.387)
Bottom 5%	2.894 (1.324)	2.274 (1.289)	2.776 (1.241)	2.218 (1.191)	2.169 (1.118)	1.664 (1.046)	1.414 (0.854)	1.050 (0.796)
ln(GDP per capita)		3.751 (1.142)		3.420 (1.074)		2.911 (0.950)		1.968 (0.752)
ln(Population)		0.820 (0.628)		0.518 (0.621)		0.407 (0.600)		0.208 (0.503)
Democracy		5.763 (2.345)		5.365 (2.178)		4.940 (1.926)		3.980 (1.557)
Gini pre-tax		0.151 (0.154)		0.114 (0.146)		0.043 (0.138)		0.014 (0.127)
Constant	-2.633 (4.728)	-38.897 (11.997)	-2.568 (4.564)	-33.990 (11.357)	-2.252 (4.121)	-26.683 (10.490)	-2.241 (2.967)	-17.865 (8.921)
F-stat p-val	0.000	0.000	0.000	0.000	0.001	0.000	0.002	0.002
R-squared	0.210	0.395	0.200	0.374	0.163	0.327	0.121	0.254
N	76	76	76	76	76	76	76	76

Notes: This table reports OLS coefficient estimates with bootstrapped standard errors from 1,000 replications in parentheses. The dependent variable are the average tax rates for incomes equivalent to 4-times the GDP p.c. (columns 1 and 2), incomes equivalent to 3-times the GDP p.c. (columns 3 and 4), incomes equivalent to 2-times the GDP p.c. (columns 5 and 6), and incomes equivalent to the GDP p.c. of a country (columns 7 and 8). The variables *Top 5%*, *Middle 5%*, and *Bottom 5%* reflect the redistributive preferences of different socioeconomic status groups. Socioeconomic status groups are defined as the bottom 5%, middle 5%, and top 5% of respondents based on our socioeconomic status index. Tax rate data are from 2005. The average tax rate variables adjust for allowances/deductions, tax credits, significant local taxes and other main rules of the tax code. They do not adjust for deductions, exemptions, and credits that depend on taxpayer specific characteristics (for example, no adjustment is made for child credits). The rates do not account for evasion/avoidance. See Appendix D for a detailed description of the control variables.

Table B.21: Policy Priorities by SES Group

	(1) Poverty	(2) Discrimination	(3) Sanitation	(4) Education	(5) Environment
Top 5%	-0.052 (0.009)	-0.001 (0.005)	-0.013 (0.005)	0.041 (0.007)	0.025 (0.007)
Middle 5%	0.003 (0.008)	0.002 (0.005)	0.003 (0.005)	-0.003 (0.006)	-0.005 (0.006)
Bottom 5%	0.093 (0.008)	-0.010 (0.005)	-0.008 (0.005)	-0.032 (0.005)	-0.044 (0.005)
Country FE	Yes	Yes	Yes	Yes	Yes
R-squared	0.131	0.045	0.049	0.041	0.173
N	49901	49901	49901	49901	49901
Countries	44	44	44	44	44

Notes: This table reports OLS coefficient estimates with robust standard errors in parentheses. The dependent variables are dummy variables indicating respondents' answers to the question about the most serious problem in their country. The dependent variables indicate whether respondents have chosen people living in poverty and need (column 1), discrimination against girls and women (column 2), poor sanitation and infectious diseases (column 3), inadequate education (column 4), or environmental pollution (column 5) as the most serious problem. *Top 5%*, *Middle 5%*, and *Bottom 5%* are dummy variables for an individual belonging to the top 5%, the middle 5%, or the bottom 5% regarding the socioeconomic status index of a given country.



Table B.22: Shares of Political Orientation by SES Group

	Left	Right	Extreme	Swing
Top 5%	0.11 (0.10)	0.16 (0.12)	0.26 (0.14)	0.36 (0.12)
Middle 5%	0.10 (0.09)	0.14 (0.12)	0.24 (0.14)	0.43 (0.13)
Bottom 5%	0.13 (0.10)	0.18 (0.14)	0.32 (0.16)	0.39 (0.14)

Notes: This table shows the mean and standard deviation (in parantheses) of political orientation for the different socioeconomic status groups. Political orientation is measured with the question: *In political matters, people talk of “the left” and “the right.” How would you place your views on this scale, generally speaking?* We then classify individuals as follows: Right extreme = 0/1, moderate: 2-7, left extreme = 8/9, and swing voter = 4/5 (*extreme* refers to individuals being either left or right).

Table B.23: Split Sample Analysis by Extreme Political Orientation

	High Share Extreme		Low Share Extreme	
	(1)	(2)	(3)	(4)
Top 5%	0.065 (2.454)	0.459 (2.778)	-7.335 (2.571)	-4.082 (2.315)
Middle 5%	-3.683 (3.455)	-3.838 (3.535)	2.261 (2.711)	-4.463 (3.510)
Bottom 5%	6.097 (1.859)	4.984 (2.029)	10.971 (2.288)	10.481 (2.010)
ln(GDP per capita)		1.370 (2.232)		6.555 (2.608)
ln(Population)		-2.266 (1.169)		-3.620 (1.434)
Democracy		3.450 (3.842)		1.203 (4.292)
Gini pre-tax		0.340 (0.329)		0.465 (0.400)
Constant	-0.428 (6.970)	-18.590 (24.702)	-17.836 (8.521)	-68.297 (23.583)
F-stat p-val	0.003	0.000	0.000	0.000
R-squared	0.243	0.418	0.511	0.722
N	43	42	44	43

Notes: This table reports OLS coefficient estimates with bootstrapped standard errors from 1,000 replications in parentheses. The dependent variable is relative redistribution, defined as the difference between pre-tax and post-tax Gini index, scaled by pre-tax Gini. This measure can be interpreted as the percentage change in income inequality caused by government intervention (i.e., taxes and transfers), with higher values indicating more redistribution. The variables *Top 5%*, *Middle 5%*, and *Bottom 5%* reflect the redistributive preferences of different socioeconomic status groups. Socioeconomic status groups are defined as the bottom 5%, middle 5%, and top 5% of respondents based on our socioeconomic status index. We split the sample into countries where the bottom 5% have a high share of extremists (columns 1 to 3) and a low share of extremists (columns 4 to 6). Missing values for relative redistribution are imputed using the estimates for pre-tax and post-tax Gini coefficients. See Appendix D for a detailed description of the control variables.

Table B.24: Weighted Attitudes and Relative Redistribution

	Relative redistribution					
	(1)	(2)	(3)	(4)	(5)	(6)
Top 5%	2.010 (1.698)			-4.532 (1.945)	-3.335 (1.826)	-2.999 (1.836)
Middle 5%		5.521 (1.415)		1.438 (2.464)	0.278 (2.246)	-0.578 (2.295)
Bottom 5%			6.589 (0.910)	7.455 (1.631)	6.003 (1.369)	6.070 (1.409)
ln(GDP per capita)					2.242 (1.243)	2.435 (1.246)
ln(Population)					-1.843 (0.766)	-1.670 (0.710)
Democracy					7.557 (2.709)	5.837 (2.736)
Gini pre-tax						0.520 (0.256)
Constant	10.008 (6.001)	-6.111 (5.530)	-14.774 (4.163)	-9.189 (5.667)	-20.768 (11.408)	-43.176 (15.267)
Top=Middle				0.121	0.317	0.503
Top=Bottom				0.000	0.000	0.000
Middle=Bottom				0.110	0.077	0.046
F-stat p-val	0.236	0.000	0.000	0.000	0.000	0.000
R-squared	0.014	0.143	0.305	0.342	0.481	0.532
N	94	93	94	93	91	91

Notes: This table reports OLS coefficient estimates with bootstrapped standard errors from 1,000 replications in parentheses. The dependent variable is relative redistribution, defined as the difference between pre-tax and post-tax Gini index, scaled by pre-tax Gini. This measure can be interpreted as the percentage change in income inequality caused by government intervention (i.e., taxes and transfers), with higher values indicating more redistribution. The variables Top 5%, Middle 5%, and Bottom 5% reflect the redistributive preferences of different socioeconomic status groups. Socioeconomic status groups are defined as the bottom 5%, middle 5%, and top 5% of respondents based on our socioeconomic status index. Missing values for realized redistribution are imputed using the estimates for pre-tax and post-tax Gini coefficients. The p-values from the Wald test comparing the coefficients of the different socioeconomic status groups are shown at the bottom of the table. We use survey weights provided by the WVS to aggregate redistributive preferences within different socioeconomic groups in a given country. See Appendix D for a detailed description of the control variables.

Table B.25: Weighted Attitudes and Alternative Measures of Redistribution

	Gini post-tax		Taxes		Social security		Redistribution index	
	(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)
Top 5%	1.725 (1.314)	1.468 (0.851)	-1.943 (1.514)	-0.021 (1.204)	-1.148 (0.715)	-0.845 (0.661)	-0.494 (0.267)	-0.243 (0.208)
Middle 5%	0.851 (1.295)	0.202 (1.001)	0.631 (1.920)	-0.377 (1.342)	0.243 (0.772)	0.026 (0.731)	0.054 (0.277)	-0.083 (0.224)
Bottom 5%	-3.340 (0.907)	-2.768 (0.656)	3.310 (1.162)	1.562 (0.839)	2.207 (0.472)	1.686 (0.437)	0.871 (0.179)	0.619 (0.143)
ln(GDP per capita)		-1.181 (0.587)		4.578 (0.856)		0.855 (0.460)		0.521 (0.132)
ln(Population)		0.705 (0.338)		-1.115 (0.461)		-0.119 (0.300)		-0.191 (0.079)
Democracy		-2.997 (1.161)		2.130 (1.645)		2.162 (1.001)		0.799 (0.282)
Gini pre-tax		0.666 (0.099)		-0.048 (0.104)		-0.018 (0.078)		-0.028 (0.022)
Constant	43.399 (3.667)	24.623 (6.386)	10.907 (3.942)	-19.055 (7.336)	-1.920 (2.102)	-7.221 (5.031)	-2.738 (0.700)	-5.075 (1.484)
Top=Middle	0.692	0.432	0.412	0.876	0.300	0.483	0.255	0.665
Top=Bottom	0.002	0.000	0.001	0.268	0.000	0.001	0.000	0.001
Middle=Bottom	0.039	0.043	0.356	0.329	0.083	0.107	0.050	0.031
F-stat p-val	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
R-squared	0.181	0.592	0.191	0.552	0.284	0.372	0.351	0.567
N	93	91	88	88	87	87	87	87

Notes: This table reports OLS coefficient estimates with bootstrapped standard errors from 1,000 replications in parentheses. The dependent variable in columns 1 and 2 is the post-tax Gini, in columns 3 and 4 the dependent variable is taxes in percent of GDP, and in columns 5 and 6 the dependent variable is social security taxes in percent of GDP. The dependent variable in columns 7 and 8 is a redistribution index, computed as the first principal component of the post-tax Gini, taxes, social security taxes, and our measure of relative redistribution. The variables Top 5%, Middle 5%, and Bottom 5% reflect the redistributive preferences of different socioeconomic status groups. Socioeconomic status groups are defined as the bottom 5%, middle 5%, and top 5% of respondents based on our socioeconomic status index. The p-values from the Wald test comparing the coefficients of the different socioeconomic status groups are shown at the bottom of the table. We use survey weights provided by the WVS to aggregate redistributive preferences within different socioeconomic groups in a given country. *Taxes* is missing for Andorra, Hong Kong, Palestine, Puerto Rico, and Taiwan, *Social security* is further missing for Vietnam. *Taxes* exclude social security contributions. *Social security* are actual revenues receivable by social security schemes organized and operated by government units, for the benefit of the contributors to the scheme. See Appendix D for a detailed description of the control variables.

Table B.26: Weighted Alternative Measures of Preferences

	Attitude inequality (change)		Perception top taxes (change)		Attitude redistribution (level)		Attitude top taxes (level)	
	(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)
Top 5%	-23.334 (5.449)	-18.851 (5.074)	-20.784 (6.428)	-10.705 (5.364)	-26.974 (7.023)	-16.379 (4.736)	-33.053 (9.884)	-17.895 (9.779)
Middle 5%	10.367 (10.329)	16.464 (8.204)	-14.568 (9.230)	5.699 (7.487)	6.187 (9.983)	7.184 (7.692)	-29.483 (16.187)	-10.782 (11.284)
Bottom 5%	14.787 (9.111)	5.511 (6.179)	26.221 (8.022)	15.743 (5.820)	21.159 (8.502)	12.699 (7.931)	30.115 (12.863)	21.320 (10.027)
ln(GDP per capita)		7.457 (2.956)		10.587 (3.649)		7.043 (3.876)		10.339 (3.456)
ln(Population)		-2.787 (0.807)		-2.435 (0.954)		-2.555 (0.877)		-2.274 (1.297)
Democracy		-3.291 (4.550)		-2.138 (5.790)		0.614 (5.082)		0.146 (5.428)
Gini pre-tax		1.069 (0.435)		1.337 (0.463)		0.828 (0.431)		0.748 (0.506)
Constant	11.657 (28.279)	-98.371 (35.546)	37.093 (23.756)	-157.218 (42.360)	6.626 (19.889)	-91.720 (42.066)	113.290 (44.826)	-83.074 (59.247)
Top=Middle	0.022	0.005	0.637	0.068	0.035	0.037	0.877	0.681
Top=Bottom	0.000	0.000	0.000	0.001	0.000	0.001	0.000	0.004
Middle=Bottom	0.791	0.402	0.005	0.379	0.377	0.696	0.021	0.098
F-stat p-val	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
R-squared	0.380	0.758	0.310	0.745	0.500	0.753	0.404	0.710
N	41	41	39	39	41	41	41	41

Notes: This table reports OLS estimates using different measures of redistributive preferences from the ISSP data (bootstrapped standard errors from 1,000 replications in parentheses). The first two measures (Attitude inequality and Perception top taxes) are based on questions about income differences and taxation (“Differences in income in <country> are too large 0: Strongly disagree, 4: Strongly agree”; “Generally, how would you describe taxes in <country> today for those with high incomes? 0: Much too high, 4: Much too low”). The other two measures (Attitude redistribution and Attitude top taxes) correspond more closely to desired levels of redistribution as the questions ask about redistributive concerns in absolute terms (“It is the responsibility of the government to reduce the differences in income between people with high incomes and those with low incomes. 0: Strongly disagree, 4: Strongly agree”; “Do you think people with high incomes should pay a larger share of their income in taxes than those with low incomes, the same share, or a smaller share? 0: Much smaller, 4: Much larger”). The dependent variable is relative redistribution, defined as the difference between pre-tax and post-tax Gini index, scaled by pre-tax Gini. This measure can be interpreted as the percentage change in income inequality caused by government intervention (i.e., taxes and transfers), with higher values indicating more redistribution. The variables *Top 5%*, *Middle 5%*, and *Bottom 5%* reflect the redistributive preferences of different socioeconomic status groups. Socioeconomic status groups are defined as the bottom 5%, middle 5%, and top 5% of respondents based on our socioeconomic status index. The p-values from the Wald test comparing the coefficients of the different socioeconomic status groups are shown at the bottom of the table. We use survey weights provided by the ISSP to aggregate redistributive preferences within different socioeconomic groups in a given country. Missing values for relative redistribution are imputed using the estimates for pre-tax and post-tax Gini coefficients. See Appendix D for a detailed description of the control variables.

## C Additional mechanisms

**Political extremism.** Another possible explanation is that policymakers are more responsive to the demands of the bottom SES group because they fear that these individuals will vote for extreme parties. Alternatively, it could be that bottom SES individuals are more likely to be swing voters. To test these hypotheses, we use data from the WVS to compute the share of politically extreme individuals in each SES group, separately for each country. We also create a proxy for swing voters. For this purpose, we use the following question about political orientation: *In political matters, people talk of “the left” and “the right.” How would you place your views on this scale, generally speaking?* We then classify individual as follows: extreme right = 0/1, extreme left = 8/9, and swing voter = 4/5. Appendix Table B.22 shows the average shares of extremists (left or right) and swing voters across all countries. We find that the middle SES group — not the bottom group — has the highest share of swing voters ( $p < 0.003$ ). The bottom 5% group instead has a significantly higher share of politically extreme individuals than the middle and top SES groups ( $p < 0.001$ ). However, when we split the sample based on the share of extremists among the bottom SES group, as shown in Appendix Table B.23, we find that the relationship between the bottom 5%'s preferences and actual redistribution is significantly stronger in countries where there is a lower share of extremists among the bottom SES group ( $p = 0.019$ ). These findings thus do not support an explanation based on greater shares of swing voters or political extremists in the bottom than in the middle or top SES group.

**Conformism.** Another possibility for the correlation between the bottom 5%'s preferences and realized redistribution is that lower SES individuals may be more likely to conform to the majority view rather than forming their own independent opinions (e.g., because they are less educated, on average). However, Appendix Figure A.5 shows that the data do not support this conjecture. In fact, the bottom 5%'s preferences are the furthest away from both the modal and median attitudes, while the top SES group's preferences are closest to the modal attitude.

## D Data

**Preferences for Redistribution and Socioeconomic Status Index.** To measure preferences for redistribution and socioeconomic status (SES), we use data from the World Value Survey (WVS). The WVS contains survey data from seven waves covering the years 1981 to 2020. We dropped data from wave 1 and wave 2, since there are no observations on income in wave 1 and no observations on social class in wave 2. We dropped wave 7 because the education variable is coded differently than in previous waves. This results in 312,577 observations covering the time period from 1995 to 2014.<sup>28</sup> We measure socioeconomic status using relative household income, education, and self-reported social class. To measure relative household income, respondents had to indicate to which income group their household belongs to on a 10-point scale (1: “lowest group”, 10: “highest group”). Highest attained educational level is measured on a 9-point scale ranging from 1 “no formal education” to 9 “university-level education with degree”. Self-reported social class is measured on a 5-point scale (1: “upper class”, 5: “lower class”). We combine the three variables into an SES index using the first principal component. We rank respondents in each country based on the SES index and define bottom, middle, and top SES groups using the 5% ranges, 10% ranges, and terciles in the distribution of the index. In our main analysis, we focus on the 5% ranges (e.g., the top 5% consist of respondents ranking above the 95th percentile of the SES index).

To measure preferences for redistribution, respondents were asked to indicate their attitudes on a 10-point scale (1: “Incomes should be made more equal”, 10: “We need larger income differences as incentives for individual effort”.) We coded answers to this question so that higher values indicate a stronger preference for redistribution (with a range from 0 to 9). We compute the average preference for redistribution for respondents from the bottom, middle, and top SES group for every country over all waves. This leaves us with 237,986 observations for which we can measure both SES index and redistributive preferences. We exclude countries for which redistributive preferences of a given SES group are based on less

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<sup>28</sup>There are 1,996 observations for Haiti from the year 2016.

than 30 observations (we lose observations for the Dominican Republic for all SES groups and the observation for Uganda for the middle 5% SES group).<sup>29</sup>

This results in a main sample of 93 countries: Albania, Algeria, Andorra, Argentina, Armenia, Australia, Azerbaijan, Bangladesh, Belarus, Bosnia and Herzegovina, Brazil, Bulgaria, Burkina Faso, Canada, Chile, China, Colombia, Cyprus, Czech Republic, Ecuador, Egypt, El Salvador, Estonia, Ethiopia, Finland, Georgia, Germany, Ghana, Haiti, Hong Kong, Hungary, India, Indonesia, Iran, Iraq, Israel, Italy, Japan, Jordan, Kazakhstan, Korea, Kuwait, Kyrgyzstan, Latvia, Lebanon, Libya, Lithuania, Macedonia, Malaysia, Mali, Mexico, Moldova, Montenegro, Morocco, Netherlands, New Zealand, Nigeria, Norway, Pakistan, Palestine, Peru, Philippines, Poland, Puerto Rico, Qatar, Romania, Russia, Rwanda, Saudi Arabia, Serbia, Singapore, Slovakia, Slovenia, South Africa, Spain, Sweden, Switzerland, Taiwan, Tanzania, Thailand, Trinidad and Tobago, Tunisia, Turkey, Ukraine, United Kingdom, United States, Uruguay, Uzbekistan, Venezuela, Vietnam, Yemen, Zambia, Zimbabwe.

**Government Redistribution.** Our measure of government redistribution comes from the Standardized World Income Inequality Database (SWIID; see Solt, 2020 for an overview). The SWIID contains cross-national estimates of the Gini index of inequality in household disposable income (post-tax, post-transfer;  $Gini_{postTax}$ ) and of the Gini index of inequality in household market income (pre-tax, pre-transfer;  $Gini_{preTax}$ ). We compute our measure of relative redistribution as follows:

$$Relative\ Redistribution = 100 \times \frac{Gini_{preTax} - Gini_{postTax}}{Gini_{preTax}}$$

*Relative Redistribution* indicates the percentage reduction in market-income inequality due to taxes and transfers. Alternatively, we also use a measure of absolute redistribution,

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<sup>29</sup>The median number of observations per country and SES groups are 123, 140, and 122 if we define SES groups based on 5% ranges.



which captures the reduction in market-income inequality (in Gini-index points) that is reduced due to taxes and transfers:

$$Absolute\ Redistribution = Gini_{preTax} - Gini_{postTax}$$

The SWIID provides estimates for both *Relative Redistribution* and *Absolute Redistribution*. These estimates are missing if estimates of  $Gini_{preTax}$  and  $Gini_{postTax}$  are based on the same observations in the source data, and the difference between them only reflects information derived from other countries. For these cases (44 out of the 94 countries), we impute *Relative Redistribution* and *Absolute Redistribution* using the estimates for  $Gini_{preTax}$  and  $Gini_{postTax}$ . As displayed in Table B.8, our main results are robust to the exclusion of imputed SWIID data. Since our preference data were collected until 2014, we focus on the SWIID data from the year which is closest to 2015. For 82% of the observations the SWIID data are from 2015, 95% of the observations are after 2009, and the oldest observation is from 1998 (Kuwait).

**Alternative Measures of Redistribution.** As alternative measures of redistribution, we use the updated Relative Political Capacity dataset of Arbetman-Rabinowitz *et al.* (2020) (which has also been used by Acemoglu *et al.*, 2015). In particular, we use their 2015 data on taxes (both with and without taxes from mineral revenues) and social security taxes scaled by GDP (i.e.,  $100 * Taxes / GDP$ ). Tax data are missing for Andorra, Hong Kong, Palestine, Puerto Rico, and Taiwan; social security taxes data is also missing for Vietnam.

**Alternative Measures of Preferences for Redistribution.** To measure preferences for redistribution and socioeconomic status (SES), we use the Social Inequality module of the International Social Survey Program (ISSP). We use data from the 1992, 1999, and 2009 waves as this most closely matches the time span of the WVS data. We measure socioeconomic status using relative household self-reported social group, education, and self-reported

social class. To measure social group, respondents had to indicate to which social group they belong to on a 10-point scale (1: “bottom group”, 10: “top group”). Highest attained educational level is measured on a 6-point scale ranging from 0 “no formal qualification” to 5 “university-degree completed”. Self-reported social class is measured on a 6-point scale (1: “lower class”, 5: “upper class”). We combine the three variables into an SES index using the first principal component. We rank respondents in each country based on the SES index and define bottom, middle, and top SES groups using the 5% ranges, 10% ranges, and terciles in the distribution of the index. In our main analysis, we focus on the 5% ranges (e.g., the top 5% consist of respondents ranking above the 95th percentile of the SES index).

The ISSP has four questions related to redistribution, two framed as preferences over the desired level of redistribution and two over desired changes relative to current circumstances. The first two measures are based on questions about income differences and taxation (“Differences in income in <country> are too large 0: Strongly disagree, 4: Strongly agree”; “Generally, how would you describe taxes in <country> today for those with high incomes? 0: Much too high, 4: Much too low”). The other two measures correspond more closely to desired levels of redistribution as the questions ask about redistributive concerns in absolute terms (“It is the responsibility of the government to reduce the differences in income between people with high incomes and those with low incomes. 0: Strongly disagree, 4: Strongly agree”; “Do you think people with high incomes should pay a larger share of their income in taxes than those with low incomes, the same share, or a smaller share? 0: Much smaller, 4: Much larger”). We coded answers to this question so that higher values indicate a stronger preference for redistribution (with a range from 0 to 4). We compute the average preference for redistribution for respondents from the bottom, middle, and top SES group for every country over all waves. We exclude countries for which redistributive preferences of a given SES group are based on less than 30 observations (we lose observations for Canada for the middle 5% SES group).

This results in a main sample of 41 countries: Argentina, Australia, Austria, Belgium, Bul-

garia, Chile, China, Croatia, Cyprus, Czech Republic, Denmark, Estonia, Finland, France, Germany, Hungary, Iceland, Israel, Italy, Japan, Korea, Latvia, Lithuania, New Zealand, Norway, Philippines, Poland, Portugal, Russia, Slovakia, Slovenia, South Africa, Spain, Sweden, Switzerland, Taiwan, Turkey, Ukraine, United Kingdom, United States, Venezuela.

**Average Tax Rates.** We use the World Tax Indicators for data on average tax rates by income groups (<https://icepp.gsu.edu/what-we-do/research/world-tax-indicators/>). Since our preference data were collected until 2014, we use the most recent tax data from 2005. Tax data are missing for Andorra, Armenia, Azerbaijan, Belarus, Bosnia Herzegovina, Burkina Faso, Colombia, Iraq, Jordan, Kazakhstan, Kyrgyzstan, Palestine, Rwanda, Tanzania, Trinidad and Tobago, Uzbekistan, and Yemen.

**Control Variables.** We control for a set of country characteristics in our analysis. Because our preference data was collected from 1995 onwards, we primarily use data from the year which is closest to 1994.

- $\ln(GDP)$ . To control for the natural logarithm of GDP per capita, we use data from the International Monetary Fund (IMF). 92% of the observations are from 1994, and the most recent observation is from 2003 (Iraq). GDP data are missing for Andorra and Palestine.
- $\ln(Population)$ . To control for the natural logarithm of population, we use data from the International Monetary Fund (IMF). 93% of the observations are from 1994, and the most recent observation is from 2003 (Iraq). Population data are missing for Andorra and Palestine.
- *Democracy*. We follow Acemoglu *et al.* (2019) to measure the democratization of a country. Acemoglu *et al.* (2019) use Freedom House and Polity IV as the main sources to construct a dummy variable which indicates if a country is democratic (*Democracy*

= 1). A country is coded as democratic in a given year if Freedom House regards it as “free” or “partially free” and Polity IV gives it a positive democracy score (the Polity IV index ranges from -10 to 10). For countries for which the Polity IV index is missing, they use Cheibub *et al.* (2010) (CGV) and Boix *et al.* (2013) (BMR) as secondary sources and code a country as democratic if Freedom House regards it as “free” or “partially free,” and either CGV or BMR consider them to be democratic. Acemoglu *et al.* (2019) provide data on democratization for 90 of the countries in our main sample in 1994. We impute the democracy measure for the 4 countries for which data is missing (Andorra, Hong Kong, Palestine, and Puerto Rico). We code Andorra as democratic using information from Freedom House, CGV, and BMR. We code Hong Kong as democratic since Freedom House regards it as “partially free” (in 1994-1995). We code Palestine as not democratic, since Freedom House regards it as “not free” (in 1996-1997). We code Puerto Rico as free since Freedom House regards it as “free” (in 1994-1995).

- *Confidence in government.* To control for the average level of confidence in the government, we use data from the WVS corresponding to the same survey waves as our preference data. Respondents were asked to indicate their confidence in the government on a 4-point scale (4: “None at all”, 1: “A great deal”.) We coded answers to this question so that higher values indicate a stronger confidence (with a range from 0 to 3). Confidence in government data is missing for Israel and Saudi Arabia.
- *Ethnic fractionalization.* To control for ethnic fractionalization, we use data from the Historical Index of Ethnic Fractionalisation dataset for the year 1995. The ethnic fractionalization index ranges from 0, for no the case when all individuals are members of the same ethnic group, to 1, where each individual belongs to his or her own ethnic group. Ethnic fractionalization data is missing for Andorra, Hong Kong, India, Montenegro, Palestine, and Puerto Rico.

- *Moral universalism.* To control for the average level of moral universalism in a given country, we use data from the WVS corresponding to the same survey waves as our preference data. The WVS contains six questions about trust in specific groups. Three questions ask about trust in in-groups (family, neighbors, people you know personally) and the other three questions ask about trust in out-groups (people of another religion, people of another country, and people you meet for the first time). We define moral universalism as the difference between the average level of trust towards out-group members and the average level of trust towards in-group members. Moral universalism data is missing for Albania, Bangladesh, Bosnia Herzegovina, Czech Republic, El Salvador, Iran, Israel, Latvia, Lithuania, Montenegro, Puerto Rico, Saudi Arabia, Slovakia, North Macedonia, Tanzania, and Venezuela.
- *Legal origin.* To control for the legal origin of a country, we use data from La Porta *et al.* (2008). We distinguish between English, French, German, and Scandinavian legal origins. Information on legal origin is missing for Andorra and Palestine.

## E Preference Data from America’s Top 5%

### Data

Our data on redistributive preferences of the very wealthy in the U.S. come from Cohn *et al.* (2023). This dataset allows for a more precise coding on income and includes a substantial number of households with incomes above \$750,000 and assets over \$5 million. The top 5% is classified as the individuals with an annual household income of above \$250,000 or gross liquid assets of \$1 million or more (according to the Survey of Consumer Finances, the top 5% earners in the U.S. had an annual incomes of at least \$260,000 in 2016). For comparison, the survey also includes a representative sample of Americans from the bottom 95% of the income distribution. The total sample consists of 882 individuals (top 5%: N = 465, bottom 95%: N = 417).

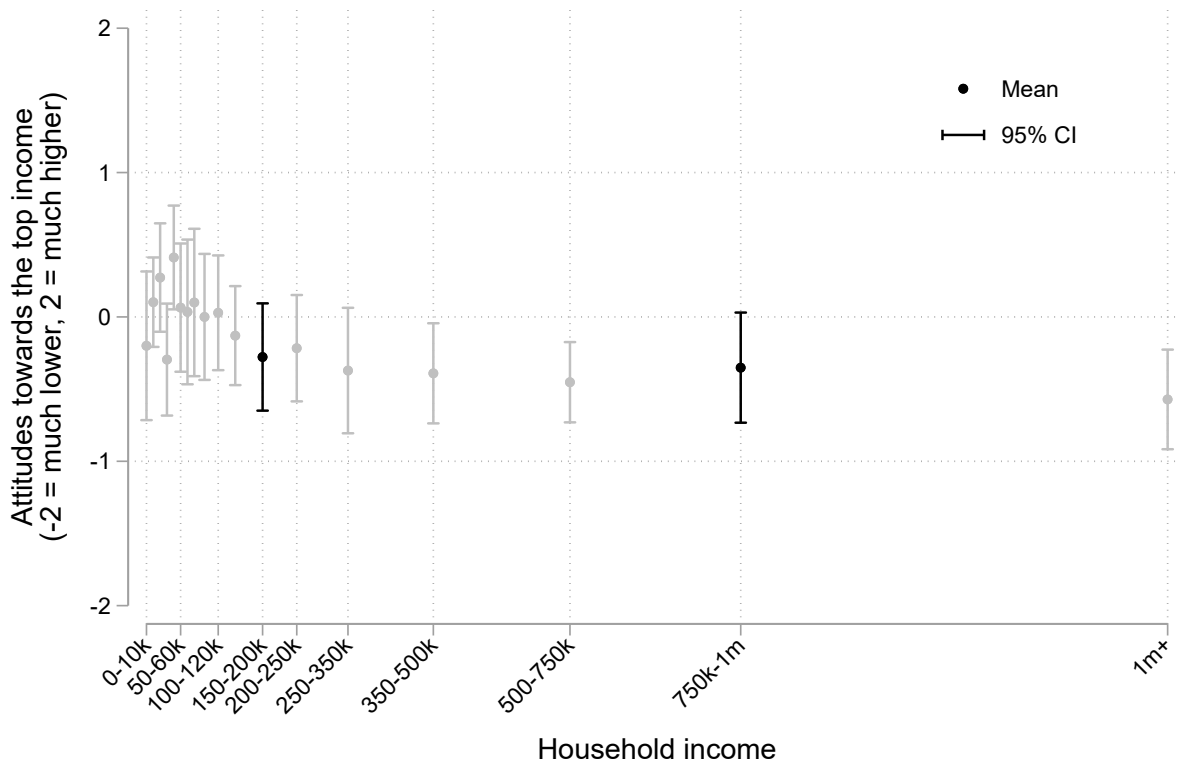
Our measure of redistributive preferences using the Cohn *et al.* (2023) data is based on respondents’ answers to two questions: (i) whether they would prefer a higher or lower effective top income tax rate, and (ii) whether they would prefer a higher or lower effective estate tax rate (both measured on a five-point scale).

### Results

We do observe a lower level of support for redistribution amongst the ultra-rich (incomes of \$750,000 or more) relative to the merely well-off (incomes of \$150,000-200,000), as illustrated in Figures E.1 and E.2. However, the differences are relatively small. Moreover, the data points for very high incomes merely extend the pattern we observe in Figure A.1 — there is a clear, near-monotonic decline in preferences for redistribution over the entire income distribution.

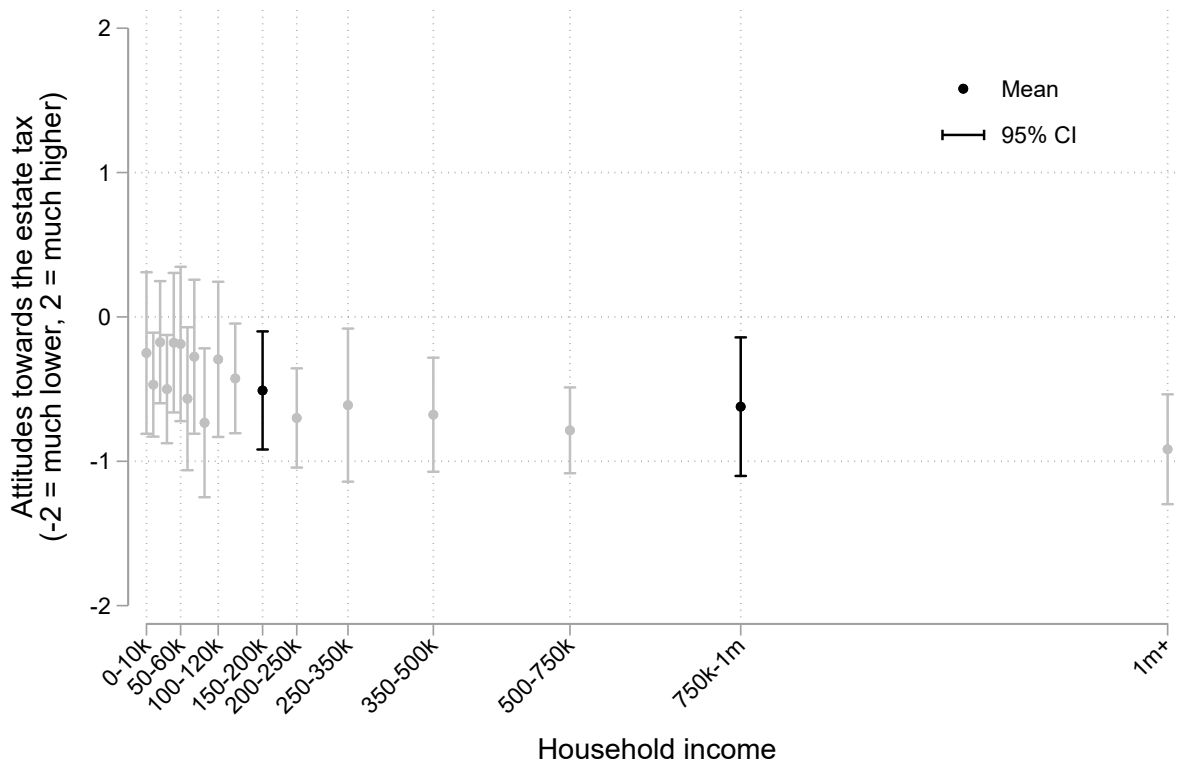
While this finding does not rule out the possibility that the redistributive preferences of the very wealthy might be positively correlated with realized redistribution, it does make this a harder argument to make, as the preferences of the very rich are most similar to those

Figure E.1: Attitudes towards top income tax of the ultra-rich



Notes: The figure shows the average attitudes towards the top income by income group. Error bars indicate the 95% confidence interval.

Figure E.2: Attitudes towards estate tax of the ultra-rich



Notes: The figure shows the average attitudes towards the estate tax by income group. Error bars indicate the 95% confidence interval.



of the well-off, and most dissimilar from the very poor.

## F Prediction Study

We present an overview of the sample collection procedures and design below. The complete survey instrument is provided in Section F.3.

### F.1 Laypeople Sample

We conducted an online prediction study in the U.S. to investigate laypeople’s beliefs about the relationship between redistributive preferences and actual redistribution across different SES groups. We collected a sample of 500 adults from the panel provider Prolific. Our sample is representative of the general U.S. population in terms of age, gender, and ethnicity (49% male, 51% female; M age = 46.36, SD = 16.41; White/European American: 69%, Black/African American: 14.%, Asian/Asian American: 7%, Hispanic/Latino: 7%). Participants could only complete the survey if they passed a simple attention check. Participants received a participation fee of US\$1.59, along with the opportunity to earn an extra payment of up to US\$4.00.

Participants were told that they had to guess the findings of a recent scientific study, which investigates how much redistribution people from different countries want and how much governments actually redistribute. We then briefly described the key features of the study: we gave participants a definition of government redistribution and information on the data we used, and we explained how we (i) measured people’s attitudes toward government redistribution, (ii) computed SES groups, and (iii) measured actual government redistribution.

We then asked participants to make their predictions and informed them that they should try their best, as the 10% most accurate participants would receive a bonus payment of US\$3.00. First, participants had to rank the three SES groups (bottom, middle, and top 5% groups) according to how much their attitudes correspond to actual government redistribution (e.g., they would place the top SES group at the top of the ranking if they thought

their attitudes correspond most closely to actual redistribution). Second, participants had to rank the pairs of SES groups according to how similar their attitudes toward government redistribution are. Participants could report their rankings using drag and drop. For both predictions, the initial order of SES groups and pairs of SES groups was randomized between participants. We also asked participants to indicate how certain they are about the accuracy of their answers on a 7-point scale (“completely uncertain” to “completely certain”). Afterwards, participants could earn an additional payment of US\$1.00 if they correctly answered two comprehension questions about the scientific study. Finally, participants provided basic demographic information including their age, gender, ethnicity, educational level, employment status, household income, social class, and political orientation. To measure educational level, household income, and social class, we used the survey items from the World Value Survey. This allowed us to compute an SES index for the participants of the prediction study in the same way as in our main study.

## **F.2 Expert Economists Sample**

We also collected predictions from experts. To do so, we surveyed a group of top academic economists whose email addresses were publicly available on the Research Papers in Economics repository website (<http://repec.org>). We culled email addresses for economists who published in the last five years, and who ranked in the top 5% in at least one of the following dimensions on the website: “average rank,” “citations,” “citations, discounted by age,” “h-index,” “abstract views,” and “downloads.” We excluded economists who were familiar with our project. This procedure yielded 3,179 email addresses. We randomly selected 1,000 email addresses to which we sent out an invitation to participate in the study, and received 140 completed responses (89% male, 10% female, 1% other; mean age = 53.60, SD age = 11.04). Around two thirds of the participants were full professors and only 9% indicated that they were not professors (e.g., research economists and economic advisors). Participants were given the same instructions and were asked to make the same predictions as in the predic-

tion study with the laypeople. We did not include any attention check and comprehension questions in the expert prediction study. Participants did not receive a participation fee, but they were informed up front that the three most accurate respondents would receive a US\$100 gift card, with the option of donating that money to a charity of their choice. At the end of the survey, we asked respondents to report their gender, age, and current academic status/ranking.

### **F.3 Full survey instrument (Layperson version)**

#### **Consent Form**

This is a survey being conducted by researchers at the Boston University, the University of Michigan, and University of Zurich. All data collected in this survey are for research purposes only.

**Task and Duration:** We will ask you to make predictions about citizens' attitudes towards redistribution and the government's redistribution policies. It should take 10 minutes or less to complete the survey.

**Compensation:** For your participation, you will be paid a participation fee. You may receive additional money based on your choices and attention during the study (up to \$4). It is therefore important that you read the instructions carefully. Any additional money you earn will be paid as a bonus at the end of the study once all responses have been collected.

**Risk and Benefits:** The risks to your participation in this study are those associated with basic computer tasks, including boredom, fatigue, or mild stress. The benefit to you is that you contribute to the advance of scientific knowledge.

**Confidentiality:** We will not ask any personally identifying information about you. The data may be published in aggregate form in scientific articles or academic presentations. Your personal identity will not be revealed.

**Subject's Rights:** Your participation is voluntary. You may withdraw at any time during the study. However, if you withdraw, you will not receive any money. For additional questions

about this research, you may contact Jeffrey Yusof at [jeffrey.yusof@econ.uzh.ch](mailto:jeffrey.yusof@econ.uzh.ch).

Please indicate, in the box below, that you are at least 18 years old, a resident of the United States of America, have read and understood this consent form, and that you agree to participate in this study.

- I agree to participate in this study, and am at least 18 years of age and a US resident, and have read the consent form.

### **Attention Check**

This study should take 10 minutes or less to complete. It is important that you take the time to read all instructions and that you read questions carefully before you answer them. Previous research has found that some people do not take the time to read everything that is displayed. To show that you read our questions carefully, please choose both 'Monday and 'Tuesday as your answer in the first question and type 'dart' into the 'Other' field of the second question.

Given the above, what are your preferred days to do sports? (Click all that apply)

- Monday
- Tuesday
- Wednesday
- Thursday
- Friday
- Saturday
- Sunday

Given the above, what is your favorite sport?

- American football
- Baseball
- Ice hockey
- Ice hockey
- Tennis
- Golf
- Wrestling
- Soccer
- Other:

### **Bonus payments**

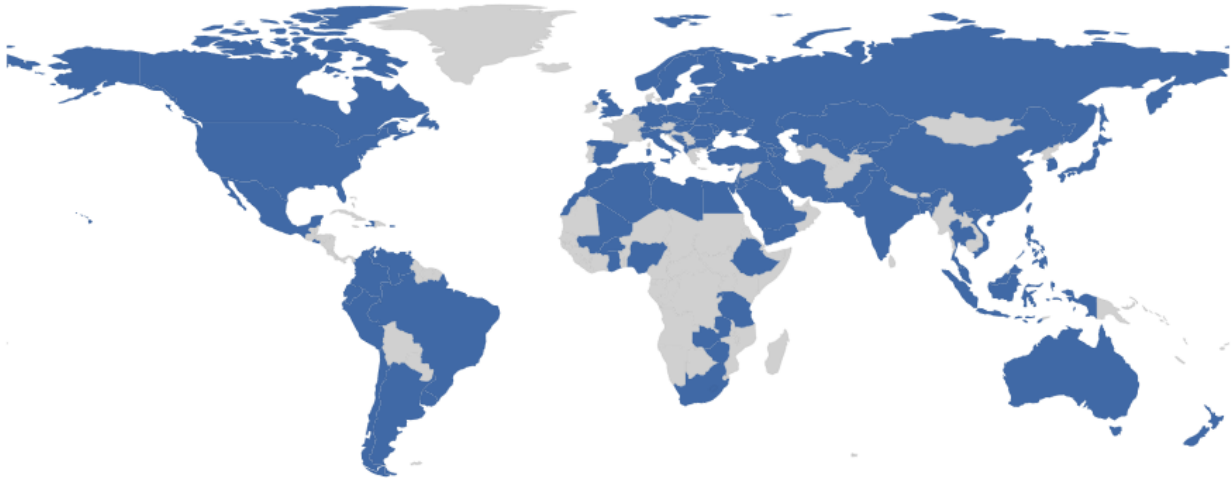
We want you to **guess the findings of a recent scientific study.**

- You can earn a **bonus of \$3** depending on the accuracy of your guesses.
- In addition, you can earn an extra bonus of \$1 if you answer correctly two questions about the details of the scientific study.

### **Study details**

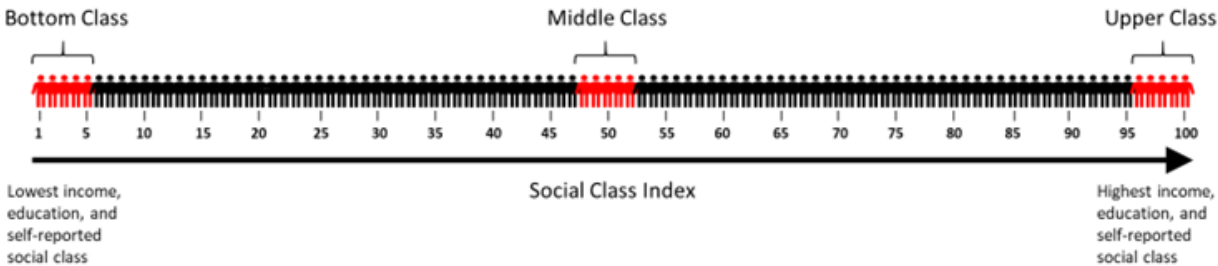
The scientific study is about how much redistribution people from different countries want and how much governments actually redistribute. Governments have many policies that aim to redistribute income from better-off citizens to less well-off citizens. These include direct cash transfers (i.e., welfare payments), and free or subsidized goods and services like food, housing, or healthcare. This assistance is paid for by taxes on better-off citizens.

First, we used international survey data on **people’s opinions about government redistribution** (that is, how much they think the government should redistribute). Overall, 237,138 respondents from 93 countries participated in the World Values Survey. The map below shows the countries (in blue) represented in the survey:



The study focused only on those respondents who belong to the bottom 5%, middle 5%, or top 5% in terms of income, education, and self-reported social class in their country. From now on, we will refer to these respondents as the bottom class, middle class, and upper class in a given country.

*Here is an example of the three social classes (in red) for a fictive country with 100 survey respondents:*



We then computed **for each social class how much redistribution people want**. Finally, we linked the international survey data with data on **actual government redistribution** (from the Standardized World Income Inequality Database or SWIID). This allowed

us to compare **how much redistribution people want** with **how much governments actually redistribute**, separately for each social class.

### **Your task**

Now we want you to guess the results of this scientific study. Try your best to be accurate: **the 10% most accurate participants will receive a bonus payment of \$3.**

**Guess 1: Which social class's opinion corresponds most closely to how much the government redistributes?**

Please rank the three social classes according to how much their opinions correspond to actual government redistribution. That is, you should place the social class whose opinions correspond most closely to actual redistribution at the top of the ranking and the social class whose opinions correspond the least to actual redistribution at the bottom of the ranking.

Use the left mouse button to drag and drop and guess the ranking.

(Drag and drop ranking: Bottom class, Middle class, Upper class)

### **Certainty:**

How certain are you about the accuracy of your answer?

(7-point Radio buttons: "Completely uncertain" to "completely certain")

**Guess 2: Which social classes are the most similar in terms of how much redistribution they want?**

Please rank the pairs of social classes according to how similar their opinions about government redistribution are. That is, you should place the pair whose opinions are most similar to one another at the top of the ranking and the pair whose opinions are least similar to one another at the bottom of the ranking.

Use the left mouse button to drag and drop and guess the ranking.

(Drag and drop ranking: Bottom and middle class, Bottom and upper class, Middle and



upper class)

**Certainty:**

How certain are you about the accuracy of your answer?

(7-point Radio buttons: “Completely uncertain” to “completely certain”)

You now have another opportunity to earn extra money:

We will now ask you two questions about the details of the scientific study. If you answer both questions correctly, you will earn \$1 in addition to what you have already earned.

**Question 1: Which characteristics do we consider in this study to divide participants into bottom class, middle class and upper class? (Check all that apply, only one is wrong)**

- Income
- Education
- Self-reported social class
- Neighborhood quality

**Question 2: How did we measure actual levels of government redistribution?**

- We used international data from the Organisation for Economic Co-operation and Development (OECD).
- We used international data from the Standardized World Income Inequality Database (SWIID).
- We hired a consulting company that conducted an audit of the financial statements.

Although the study focused only on government redistribution, we are also interested in what you think these relationships would look like for other public policies. Since we did not analyze data on other policies, we cannot pay an accuracy bonus for these guesses.

**For each government policy described below, please rank the three social classes according to how much their opinions correspond to what the government actually does.** That is, you should place the social class whose opinions correspond most closely to actual government policy at the top of the ranking and the social class whose opinions correspond the least to actual government policy at the bottom of the ranking.

Use the left mouse button to drag and drop and guess the ranking.

(Drag and drop ranking: Bottom class, Middle class, Upper class)

- Immigration: Controlling borders and imposing restrictions on immigration.
- Environment: Protecting the environment (e.g., reducing CO2 emissions) through regulation.
- International Trade: Protecting domestic jobs from international competition and promoting domestic products.

## Demographics

Please tell us about yourself so we can put your other replies in greater context:

- What is your age?
- What is your gender?
  - Male
  - Female
  - Other:
- What is the primary ethnicity or race you identify with?
  - Asian/Asian American
  - Black/African American

- White/European American
  - Hispanic/Latino
  - Other
- Were you born in the United States? (Yes, No)
- What is the highest educational level that you have attained?
    - No formal education
    - Incomplete primary school
    - Complete primary school
    - Incomplete secondary school: technical/vocational type
    - Complete secondary school: technical/vocational type
    - Incomplete secondary: university-preparatory type
    - Complete secondary: university-preparatory type
    - Some university-level education, without degree
    - University-level education, with degree
- We would like to know in what income group your household is in your country on a scale from 1 (lowest income group) to 10 (highest income group). Please, specify the appropriate number, counting all wages, salaries, pensions and other incomes that come in. (10 Categories: 1 Lowest income group – 10: Highest income group)
- People sometimes describe themselves as belonging to the working class, the middle class, or the upper or lower class. Would you describe yourself as belonging to the:
    - Upper class
    - Upper middle class
    - Lower middle class

- Working class
- Lower class
- What is your current employment status?
  - Full-time employee
  - Part-time employee
  - Self-employed or small business owner
  - Unemployed
  - Student
  - Not in labor force (for example: retired, or full-time parent)
- In political matters, people talk of "the left" and "the right." How would you place your views on this scale, generally speaking? (10-point Scale: 1: Left to 10: Right)

### **End of Survey**

Thank you very much for participating in this study! How well did you understand the instructions for the prediction tasks?

(7-point Radio buttons: "Did not understand them at all" to "fully understood them")

Do you have any comments or suggestions you would like to share with the researchers who designed this study? Is there anything you found unclear or confusing? Are there questions you had wished we asked? Please let us know what you think.