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## How can we improve air pollution? Try increasing trust first

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August 2021

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## Abstract

Environmental policies are characterized by salient short-term costs and long-term benefits that are difficult to observe and to attribute to the government's efforts. These characteristics imply that citizens' support for environmental policies is highly dependent on their trust in the government's capability to implement solutions and commitment to investments in those policies. Using novel survey data from Mexico City, we show that trust in the government is positively correlated with citizens' willingness to support an additional tax approximately equal to a day's minimum wage to improve air quality and greater preference for government retention of revenues from fees collected from polluting firms. We find similar correlations using the perceived quality of public goods as a measure of government competence. These results provide evidence that mistrust can be an obstacle to better environmental outcomes.<sup>1</sup>

**JEL classifications:** Q53, Q52, Q56, H23, H41, H42

**Keywords:** Air pollution, Trust, Public services quality, Taxes, Public goods, Publicly provided private goods, Mexico

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# 1 Introduction

Air pollution is one of the primary environmental and public health challenges facing governments. In 2013 alone, an estimated 5.5 million lives were lost due to exposure to outdoor and indoor air pollution and welfare losses reached more than US\$5 trillion worldwide (World Bank and Institute for Health Metrics and Evaluation, 2016). The problem is especially acute in low- and middle-income countries, where 90% percent of the population is exposed to high levels of ambient air pollution (World Bank and Institute for Health Metrics and Evaluation, 2016). Given the substantial human and economic costs, why don't governments in the developing world implement more and stricter policies and regulations to reduce air pollution?

Although citizens recognize that air pollution is a problem, they may not trust that the government has the capacity and the commitment to implement effective, long-term solutions (Scartascini and Tommasi, 2010, 2014; Franco Chuaire et al., 2017).<sup>2</sup> The characteristics of many environmental public policies provide an opportunity for governments to act opportunistically. Many environmental policies are characterized by short-term costs and long-term commitments and the effectiveness of environmental policies are often difficult for citizens to observe since natural processes (e.g. thermal inversions) outside the government's control also effect outcomes. In low-trust environments, citizens may not be willing to support policies that require short-term costs and long-term commitments (Keefer et al., 2018, 2020). Therefore, one reason that governments in developing countries do not pursue and implement policies that lead to better air quality may be that they lack the trust to garner citizen support for effective policies.

We analyze the relationship between trust and demand for public policies related to air pollution using survey data from Mexico City (CDMX), where air quality has historically been a notorious problem. The United Nations described Mexico City's air as the most polluted on the planet in 1992.<sup>3</sup> Since then, CDMX's air pollution has improved, but it is still above international targets and ranked 30th worst among capital cities of the world (IQAir, 2018). Citizens are aware of the issue; in our survey data, nearly 95% of participants report that air quality is "a problem" or "a very big problem" in Mexico City.<sup>4</sup>

Similar to many other low- and middle- income countries, Mexico's citizens have relatively low trust in the government, especially in politicians. According to an OECD survey of 42 countries, Mexico falls near the median in terms of trust in government.<sup>5</sup> Citizens can proxy for opportunistic or untrustworthy behavior by the ability of governments to deliver on promises and whether politicians engage in corruption. Mexico ranks poorly on both metrics. Mexico's governance ca-

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<sup>2</sup>Similarly, corruption lowers willingness to pay for public goods and services.

<sup>3</sup><https://www.c40.org/profiles/2013-mexicocity>

<sup>4</sup>The (translated) survey question is: "In general, do you think air pollution is a problem in Mexico City?" and the response categories are "No, it is not a problem," "It is a problem to some extent," "It is a problem," and "It is a very big problem."

<sup>5</sup>Trust in government refers to the share of people who report having confidence in the national government. See <https://data.oecd.org/gga/trust-in-government.htm>.

pabilities are below those of other OECD countries.<sup>6</sup> According to the Transparency International Corruptions Perception Index available from the World Bank, Mexico ranked in the bottom 30% of countries in 2018.<sup>7</sup> According to the World Economic Forum Global Competitive Index available from the World Bank, in 2017 Mexico ranked 127th out of 137 countries in terms of beliefs in politicians' ethical standards.<sup>8</sup> Despite this low ranking, Mexico is near the median for Latin America and the Caribbean. In terms of trust in government and corruption perceptions, Mexico City falls near national averages. Sixty percent of citizens in Mexico City have no trust in government, compared to the national average of 54%.<sup>9</sup> Similarly, 90% of citizens of Mexico City believe there is corruption in government, compared to 87% of Mexicans nationally.<sup>10</sup>

In this context of high air pollution and low trust, we study whether trust affects citizens' willingness to pay taxes to improve air quality, views on whether pollution fees should be retained by the government or distributed to citizens, and preferences on whether the revenue should be used to fund the provision of environmental public or private goods. We use novel data collected from in-person household surveys between June and August 2019 and construct absolute and relative (benchmarking the trust scale to the individual's reported trust in their family) measures of trust.

Overall, we find that about 3 out of 4 participants would be willing to pay an additional tax in order to alleviate air pollution problems, and this willingness is higher for those who trust the President (by about 3 to 5 percentage points for a 1-unit increase on a 4-point trust scale) and non-political actors such as NGOs. Participants have a preference for allocating the potential fees paid by polluting firms to citizens rather than the government. However, those who trust political figures, such as political parties or the Mayor of Mexico City, are more willing to let the government retain more of the revenue (by 2 to 5 percentage points for a 1-unit increase on a 4-point trust scale). Finally, we find that participants are more likely to report that they prefer allocating the revenue received by the government to providing public goods rather than providing private goods to individuals. Trust in government is not correlated with preferences for public goods, but trust in NGOs (positively) and neighbors (negatively) is.

In addition to absolute and relative measures of trust, we also look at correlations between policy preferences and perceptions of the quality of public services. Perceived quality of public services captures one dimension of trust in government (competence) that may suffer less measurement bias. We find that people's assessment of street quality in their neighborhood is correlated with higher

<sup>6</sup>For example, according to the Worldwide Governance Indicators, low- and middle-income countries, including Mexico, rank significantly below high-income OECD countries in terms of the governance indicators voice and accountability, political stability and absence of violence/terrorism, government effectiveness, regulatory quality, rule of law, and control of corruption. See <https://info.worldbank.org/governance/wgi/Home/Reports>.

<sup>7</sup>See <https://tcdata360.worldbank.org/indicators/h345264a2?country=MEXindicator=32534countries=BRAviz=choropletheyears=2018>.

<sup>8</sup>The survey question is: In your country, how would you rate the ethical standards of politicians? The response scale ranges from 1 = extremely low to 7 = extremely high. See [https://tcdata360.worldbank.org/indicators/h5f2277ca?country=MEXindicator=41322viz=line\\_chartyears=2007,2017](https://tcdata360.worldbank.org/indicators/h5f2277ca?country=MEXindicator=41322viz=line_chartyears=2007,2017).

<sup>9</sup>See the World Values Survey Wave 2017-2020 <https://www.worldvaluessurvey.org/WVSONline.jsp>.

<sup>10</sup>See the Encuesta Nacional de Calidad e Impacto Gubernamental (ENCIG) conducted in 2019 <https://www.mexicosocial.org/87-cree-que-hay-corrupcion-en-su-gobierno/>.

willingness to pay an additional tax for an improvement in air quality and that higher quality of water service is correlated with a preference for greater government retention of revenue from fees collected from polluting firms. We do not find any significant correlation between perceived public goods quality and the use of the revenue for private or public goods.

Our results complement a recent literature demonstrating that environmental policy preferences are influenced by trust in institutions, authorities, and other citizens, such as family, friends, and neighbors (Hammar and Jagers, 2006; Konisky et al., 2008; Jagers et al., 2010; Fairbrother, 2016; Kulin and Johansson Sevä, 2020). Specifically, trust is correlated with citizens’ willingness to support taxes to curb pollution and climate change (Hammar and Jagers, 2006; Harring, 2013; Harring and Jagers, 2013; Birol and Das, 2012; Fairbrother, 2016; Xu and Li, 2016; Kulin and Johansson Sevä, 2020) and trust plays a role in determining the set of policies that individuals are willing to support (Zannakis et al., 2015; Lafuente et al., 2018; Harring, 2018). Similarly, government quality plays an important role in determining individuals’ willingness to pay environmental taxes (Davidovic et al., 2020).<sup>11</sup>

Our study is most similar in spirit to Keefer et al. (2018) and Keefer et al. (2020), although Keefer et al. (2018) and Keefer et al. (2020) focus on the education and policing sectors. Education and policing differ from ambient air quality in that there are clear private alternatives to publicly provided goods. Therefore, Keefer et al. (2018) and Keefer et al. (2020) capture a preference for the size of government in those sectors by asking participants their preference on public or private provision. In contrast, our study captures willingness to pay an additional tax for an improvement in ambient air quality that could not be easily privately provided. Additionally, unlike Keefer et al. (2018) and Keefer et al. (2020), in which there is an implied or explicitly stated temporal misalignment of the costs and benefits, we study hypothetical short-term policies in which we specify that the costs and benefits of the policy (tax and an sufficient improvement in air quality to reduce the number of *contingencias*) occur in the same time period.<sup>12</sup> This precludes confounding by time preferences. Further, in contrast to Keefer et al. (2018) and Keefer et al. (2020), our survey questions specify the amount of the tax increase and the benefits of the policy in terms of improvements in air quality to fix ideas.

Our results provide evidence that contributes to the literature on the role of trust in environmental public policy in several dimensions. First, we study willingness to pay an additional tax approximately equal to a day’s minimum wage to achieve a specific improvement in the local air quality. In contrast, most of the literature has focused on a hypothetical tax, which may or may not be borne by the individual, to mitigate an environmental problem with uncertain local costs. Because the costs and benefits of the tax are concrete and salient, we can evaluate the roles of

<sup>11</sup>Trust and government corruption also play a role in willingness to pay for public goods and services more generally (Oh and Hong, 2012; Kassahun et al., 2020).

<sup>12</sup>*Contingencias* are environmental emergencies that are declared on days in which air pollution levels exceed or are predicted to exceed official Mexican standards and trigger measures such as restrictions on driving and industry, the suspension of some construction activities, and suspension of outdoor activities at day care facilities. See [http://legismex.mty.itesm.mx/instruc/manual\\_contingencias.pdf](http://legismex.mty.itesm.mx/instruc/manual_contingencias.pdf) and <http://www.sadsma.cdmx.gob.mx:9000/datos/glosario-definicion/Contingencia%20Ambiental>.



trust and public good provision on willingness to pay for environmental improvements with fewer confounding factors.

Second, we provide evidence in an understudied context and two understudied areas of the literature. We provide some of the first evidence on the role of trust in environmental policy preferences in Latin America where trust in government is low and air pollution is high. This context is distinct from the high-trust, low-pollution contexts in which most studies were conducted.<sup>13</sup> We study a larger set of policy outcomes and additional measures of trust. In addition to studying willingness to pay an additional tax for environmental improvements, we also study preferences for government control of revenue for improving environmental quality and preferences on public vs. private environmental goods. In addition to reported levels of trust in government, we study the correlation between the perceived quality of public goods provision and environmental policy preferences. The perceived public service provision may provide a more objective measure of trust in government competence, which reduces measurement error.

Third, due to methodological improvements, our survey was particularly well-designed for capturing policy preferences (Gingerich and Scartascini, 2018). We measured preferences for the distribution of revenue to the government or citizens and for spending on public goods or private goods using a procedure that replicated real-life budget trade-offs. Instead of asking about their priority, participants distributed hypothetical resources (10 units) among the several alternatives as a real-life representation of the choices being made across options.

## 2 Hypotheses and Methodology

Effective environmental public policy is crucial to sustainable and equitable economic growth. If trust in government plays a significant role in environmental public policy preferences, this is one additional channel through which trust may impact economic growth.

Trust is likely to play a particularly large role in environmental public policy, as these policies tend to require long-term investments and commitments on the part of the government and deliver benefits that are difficult for citizens to measure. For example, air quality depends on emissions, which can be influenced by policies and regulations, but also on weather and thermal inversions. Therefore, there are opportunities for politicians to act opportunistically. Furthermore, many environmental public policies deliver improvements in public goods, which citizens may not trust the government to provide.<sup>14</sup> Using a probabilistic voting model, Keefer et al. (2020) show that voters prefer government spending with certain and immediate benefits when they have low trust in electoral promises and, in equilibrium, candidates promising larger allocations to transfers and short-term public goods are more likely to win elections in settings with low trust and high

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<sup>13</sup>Most of the literature is from the United States (Konisky et al., 2008; Dincer and Fredriksson, 2018), Europe (Hammar and Jagers, 2006; Harring, 2014; Zannakis et al., 2015; Volland, 2017; Harring, 2018; Lafuente et al., 2018), and China (Sun et al., 2016; Zhong and Hwang, 2016; Dong and Zeng, 2018; Gong et al., 2017).

<sup>14</sup>Trust as the basis of cooperation in the provision of public goods has a long tradition in the literature, including in environmental issues (Cardenas and Ostrom, 2004; Gächter et al., 2004; Bouma et al., 2008; Irwin et al., 2015).

impatience.

We consider the role of trust in three key aspects of citizens' support for environmental public policy: willingness to pay taxes to finance new policies, preference for the share of revenue that the government controls, and the use of government revenue to finance public vs. private goods. Together, these three outcomes provide a fairly comprehensive view of citizens' support for environment public policies.

Trust may be difficult for citizens to quantify on a 4-point scale, but citizens are likely to have a clear evaluation of the quality of basic public goods that they use daily. Therefore, the perceived quality of public goods such as roads and piped water captures one dimension of trust in government, specifically competence, that may suffer less measurement bias.

Consequently, we focus on the following six specific hypotheses that correlate trust and environmental public policy.

1. *Trust in government is positively correlated with support for taxes to improve air quality.*
2. *Trust in government is positively correlated with support for government retention of revenue from air pollution fees.*
3. *Trust in government is positively correlated with support for environmental public goods spending.*
4. *The perceived quality of local public goods and services is positively correlated with support for taxes to improve air quality.*
5. *The perceived quality of local public goods and services is positively correlated with support for government retention of revenue from air pollution fees.*
6. *The perceived quality of local public goods and services is positively correlated with support for environmental public goods spending.*

To evaluate if these hypotheses hold in our novel data from Mexico City, we estimate a linear OLS regression including Basic Geostatistical Area (i.e., neighborhood) fixed effects and basic socio-demographic characteristics and policy preferences/environmental beliefs as control variables with robust standard errors.

$$Y_i = \beta_0 + \beta_1 T_i + \beta_2 X_i + \beta_3 E_i + \beta_4 BGA_i + \epsilon_i, \quad (1)$$

$Y$  is the outcome of interest for individual  $i$ . We consider three outcomes of interest: an indicator variable representing support for a 100-peso pollution tax, how much of the revenue from air pollution fees should be retained by the government and distributed to citizens (measured as the share of resources retained by the government and as the difference in units allocated to government control and to citizen control), and how much of the revenue from air pollution fees should be dedicated to financing environmental public goods and environmental private goods (measured as the share of resources allocated to public goods spending and as the difference in units allocated to public goods and to private goods).  $T$  contains trust variables (either absolute or relative) or

perceived public services quality.  $X$  is a set of socio-demographic control variables including gender, age, education, household size, and an indicator variable indicating the presence of children in the household.<sup>15</sup>  $E$  contains additional variables representing perceptions of the government’s environmental program capabilities and beliefs about the importance of environmental policies as control variables. Specifically,  $E$  includes variables that capture perception of the effectiveness of CDMX’s air pollution control program, perception of the government of CDMX’s pollution control capacities, and the importance that politicians should place on environmental quality to receive the majority of votes.  $BGA$  is a vector of fixed effects for the Basic Geostatistical Area to absorb the neighborhood-level quality of public services provision, political leaning, and income.

In addition to results of regressions with individual trust variables, we show the results of regressions including the full set of trust variables to account for the omitted variable bias in the first specification since the trust variables are highly correlated.<sup>16</sup>

The first, second, and third hypotheses imply that those who trust the government both in absolute and relative terms (the distance between trust in family and friends and trust in government) are more likely to support additional taxes to avoid air pollution environmental emergencies, prefer the government to retain more revenue from air pollution fees, and prefer to allocate more revenue to environmental public goods spending rather than environmental private goods spending.

Similarly, the fourth, fifth, and sixth hypotheses imply that those who perceive the quality of local government public goods and services to be higher are more likely to support additional taxes to avoid air pollution environmental emergencies, prefer the government to retain more revenue from air pollution fees, and prefer to allocate more revenue to environmental public goods spending rather than environmental private goods spending.

### 3 Data

The survey data used in this article were collected through in-person household surveys in Mexico City during the period June–August 2019 as part of a larger randomized controlled trial. The sample consists of 1,869 individuals. Sampling of households was restricted by education level and previous inclusion in other survey rounds and to ensure the safety of the field teams. Specifically, the sample included Basic Geostatistical Areas (BGAs) with an education level below the median and a homicide rate below the 70th percentile.<sup>17</sup>

Field work proceeded as follows. Each day, each field team conducted surveys in one BGA.<sup>18</sup> The day before surveying an area, households were given advance notice of the survey. In each sampled BGA, the field team distributed 500 invitations on both sides of the street starting at the Northwestern most block of the selected BGA and moving toward the Southeastern most block of

<sup>15</sup>Household income is not used as control because it contains many missing observations.

<sup>16</sup>Table A1 in the Appendix shows that the set of trust variables are highly correlated.

<sup>17</sup>Additionally, any BGA that was deemed too dangerous for the field team to visit according to a majority of votes cast by the field manager and supervisors was removed from the sample.

<sup>18</sup>If the BGA had fewer than 500 households, it was surveyed on the same day as a nearby (partner) BGA.

the selected BGA until the 500-household quota had been reached.<sup>19</sup> Surveyors followed the same pattern the following day when attempting to interview households.

Table 1 describes the observable characteristics of the sample used in the analysis. Thirty-five percent of the sample is male, the average age is 42 years old, the average level of education is secondary education, 54% of households have children, and on average households contain 4 members. Individuals in our sample believe that air pollution is a serious concern in Mexico City. Sixty-eight percent of the individuals surveyed consider air pollution to be inevitable in any large city and 65% consider air pollution to be inevitable in Mexico City. Twenty-nine percent of the individuals surveyed think that Mexico City’s government takes effective measures to control air pollution. On average, participants rated the effectiveness of the Megalopolis Program a 6 (on a scale where 1 is ineffective and 10 is fully effective), and the effectiveness of the control carried out to measure compliance by companies a 5. Relative to other issues, participants do not think political candidates should put too much weight on environmental policy in order to win elections (average rating of 3 out of 10).

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<sup>19</sup>There is flexibility in the exact path through the BGA depending on where households are located and the geography of the street pattern in the BGA.

**Table 1:** Summary Statistics (full sample)

Variable	Description	N (1)	Mean (2)	S.D. (3)	Min (4)	Max (5)
Age	Continuous	1866	42	15	18	88
Gender	Dummy (Male=1)	1869	0.35	0.48	0	1
Education	Scale (0=No education, 4=Superior education)	1869	2.32	0.95	0	4
Family with children	Dummy (Yes=1)	1869	.537	.49	0	1
Household Size	Continuous	1869	3.97	1.77	1	13
Megalopolis Program	Scale (1=Not effective, 10=Very effective)	1820	5.77	2.62	1	10
Pollution control (Megalopolis)	Scale (1=Not effective, 10=Very effective)	1799	4.87	2.57	1	10
Environmental quality (policy topic)	Scale (0=Not important, 10=All the importance)	1852	2.98	2.28	0	10
Air pollution inevitable in big cities	Dummy(1=Yes)	1854	0.68	0.47	0	1
Air pollution inevitable in CDMX	Dummy(1=Yes)	1838	0.65	0.48	0	1
Air pollution is a problem in Mexico City	Scale(1=Not a problem, 4=A big problem)	1867	3.71	.59	1	4
Air quality in the <i>colonia</i>	Scale(1=Lower than city, 4=Better than city)	1854	2.38	0.77	1	4
Pollution: CDMX take effective measures	Dummy (1=Yes)	1844	0.29	0.45	0	1
Trust: Family and friends	Scale (1=No trust, 4=Trust a lot)	1863	3.38	0.88	1	4
Trust: Neighbours	Scale (1=No trust, 4=Trust a lot)	1855	2.53	0.96	1	4
Trust: People in the street	Scale (1=No trust, 4=Trust a lot)	1864	2.11	0.93	1	4
Trust: Political Party	Scale (1=No trust, 4=Trust a lot)	1855	1.73	0.81	1	4
Trust: President	Scale (1=No trust, 4=Trust a lot)	1853	2.29	1.08	1	4
Trust: Mayor CDMX	Scale (1=No trust, 4=Trust a lot)	1849	2.18	1.01	1	4
Trust: Media	Scale (1=No trust, 4=Trust a lot)	1855	2.28	0.93	1	4
Trust: NGOs	Scale (1=No trust, 4=Trust a lot)	1841	2.51	0.94	1	4
Trust F/F-Neighbours	Distance	1850	0.84	1.03	-3	3
Trust F/F-People/Street	Distance	1858	1.26	1.08	-3	3
Trust F/F-Pol.Parties	Distance	1849	1.65	1.08	-3	3
Trust F/F-President	Distance	1847	1.09	1.27	-3	3
Trust F/F-Mayor CDMX	Distance	1843	1.20	1.24	-3	3
Trust F/F-Media	Distance	1849	1.10	1.20	-3	3
Trust F/F-NGO's	Distance	1836	0.87	1.15	-3	3
Water service frequency	Scale (1=Everyday interruptions, 5=Never interrupts)	1841	3.39	1.55	1	5
Street quality	Scale (1=Very Bad, 4=Very Good)	1847	2.21	0.71	1	4
Increase Tax	Dummy(1=Pay tax)	1847	0.74	0.44	0	1
Distribution of Resources: Government	Scale(-10=Resources to citizens, 10=Resources to government)	1824	-5.38	6.07	-10	10
Use of Resources: Public goods	Scale(-10=Resources to privates, 10=resources to public)	1837	2.74	5.84	-10	10
Coin share: Government	Proportion (0=no coins, 1=all coins)	1824	0.23	0.30	0	1
Coin share: Public	Proportion (0=no coins, 1=all coins)	1837	0.63	0.29	0	1

### 3.1 Trust variables

Table 1 also provides descriptive statistics of participants' trust in different groups and institutions. Trust was reported on a 4-point scale that ranged from no trust (a value of 1) to a lot of trust (a value of 4). On average, participants report the greatest trust in family and friends (mean of 3.38), followed by trust in neighbors (mean of 2.53), trust in Non-Governmental Organizations (NGOs) (mean of 2.51), and trust in the media (mean of 2.28). On the other end of the trust spectrum are political parties and government authorities. Individuals reported slightly higher trust in the President (mean of 2.29) than in the Mayor of CDMX (mean of 2.18). Trust in the President and the Mayor likely depends on the political affiliation of the participant.<sup>20</sup> Political parties have a mean trust level of 1.73. Because the survey asked about political parties in general, as opposed to a specific political party, this illustrates people's low levels of trust in political organizations.

In addition to the absolute measures of trust, we also construct relative trust measures using trust

<sup>20</sup>We include BGA fixed effects in our regression equation to control for political leanings at the neighborhood level.

in family and friends as a benchmark.<sup>21</sup> Reported levels of trust may differ across individuals not only because of differences in trust but also because of differences in perceptions of the reporting scale. The relative measures of trust are constructed as the difference between the trust level reported for family and friends and the trust level reported for that party. In this way, the relative measures of trust remove differences in the perception of the trust scale by benchmarking trust in each party to the individual's trust in their family and friends. For relative measures of trust, a lower value indicates higher trust because it indicates that the individual trusts that party almost as much as they trust their family and friends. Eighty-one percent of participants reported that they have the (weakly) highest level of trust in family and friends.

The survey also included two questions to evaluate participants' perceptions of the quality of public goods and services, to proxy for the quality or competence of government. Water service frequency captures the number of interruptions an individual experiences. On average, participants reported that their water service is interrupted at least once a week (on this scale 1 represents interruptions every day and 5 represents never experiencing interruptions to water service). Street quality in their *colonia* is viewed as "poor" on average (measured on a 4-point scale where 1 represents very poor quality and 4 very good quality). [Appendix A.9](#) displays the relevant sections of the questionnaire.

### 3.2 Dependent variables

The survey collected data on environmental policy preferences using three different questions that follow the framework developed in [Keefer et al. \(2018\)](#) and [Keefer et al. \(2020\)](#).<sup>22</sup> [Table 1](#) displays summary statistics for the outcome variables and [Appendix A.9](#) displays the relevant sections of the questionnaire.<sup>23</sup>

Our first outcome variable is an indicator variable that captures whether a participant supports an increase in their taxes to improve air quality. Specifically, the survey asked whether the participant would support a 100-peso tax if the government were to commit to a plan that reduces air pollution enough to avoid all environmental emergencies. Seventy-four percent agreed with the statement ([Figure A1](#)).

Our second outcome captures participants' preference for how revenue collected from fees paid by polluting firms should be distributed ([Figures A2 and A3](#)). Participants reported their preference for the allocation of the revenue by distributing 10 units across four different options: the government of the city where the polluting factory is located (mean of 12%), the national government (mean of 11%), the citizens located nearby the polluting factory (mean of 42%), or the citizens of the city where the factory is located (mean of 35%). Using the responses to this question, we created two versions of the dependent variable "distribution of resources." The first adds the number of units allocated to the local and national governments and divides this sum by 10. The range of

<sup>21</sup>Responses to the battery of trust questions is highly correlated within individuals. See [Table A1](#) in the Appendix.

<sup>22</sup>The relevant sections of the questionnaire are displayed in [Appendix A.9](#).

<sup>23</sup>Data on missing values for the outcome variables is displayed in [Appendix Table A3](#).

this variable is 0 (all revenue distributed to citizens) to 1 (all revenue retained by the government) and can be interpreted as the percent of the revenue that the participant prefers the government to control. The average share allocated to governments was 0.23, or 23%, demonstrating that participants prefer that citizens control a greater share of the revenue from pollution fees than local or national governments. The second is the absolute difference in units allocated to the government vs. citizens. The sum of the units distributed to citizens is subtracted from the sum of the units distributed to local and national governments. This variable ranges from -10 to 10. On this scale, a value of 10 indicates that a participant assigned all the revenue to government control, a value of 0 indicates that the participant allocated an equal number of units to government control and citizen control, and a value of -10 indicates that a participant assigned all the revenue to citizen control. The average of this variable is -5.38, which indicates that, on average, participants distributed 5.38 more units (out of 10 units) to citizen control than to government control.<sup>24</sup>

Our third outcome captures participants' preferences on public goods and private goods (Figures A4 and A5). Participants were asked what share of the revenue should be spent on environmental public goods and environmental private goods if the local government were to retain the revenue from pollution fees. Participants reported their preference by distributing 10 units across four options: government implementation of new measures and restrictions on pollution sources (mean of 30%), reduction of air pollution in public buildings, for example through air filters (mean of 17%), provision of masks and filters to households (mean of 33%), and subsidies to households for the purchase of energy-efficient appliances (mean of 19%). Similar to the second outcome, we construct two versions of this outcome variable. The first captures the share of resources that the participant prefers to be used for public goods, and the second captures the absolute difference in units allocated to public vs private goods. The first variable ranges from 0 to 1, with an average allocation of 63% to public goods. The second ranges from -10 to 10 with an average of 2.74, indicating that on average participants allocated 2.74 more units to public environmental goods than to private environmental goods.<sup>25</sup>

## 4 Results

### 4.1 Trust

Table 2 shows that we find evidence in support of hypotheses one and two but do not find evidence in support of hypothesis three. Panel A shows that higher trust in the President, the Mayor, and political parties is associated with higher willingness to support a tax increase to improve air quality (hypothesis 1). In particular, in the specification including the full set of trust variables a one-level increase in trust in the President is associated with an increase in the likelihood of supporting the additional tax of 3 percentage points (column (4)). Consequently, the probability that an individual responds that she is willing to pay the tax is about 21% higher if she answered that she trusts the

<sup>24</sup>Figure A2 shows the full distribution of units allocated to citizens and to the government.

<sup>25</sup>Figure A4 shows the full distribution of reported preference for environmental public or private goods spending.

President a lot than if she answered that she does not trust the President at all. These results are in line with others in the literature. [Jagers et al. \(2010\)](#) find that trust in politicians is linked to support for a carbon tax, [Hammar and Jagers \(2006\)](#) find a positive correlation between support for increases in gasoline taxes and trust, and [Harring and Jagers \(2013\)](#) find that political trust and interpersonal trust have significant effects on people’s attitudes toward an increase in taxes on carbon dioxide. A similar relationship is found between trust in NGOs and support for an additional tax to improve air quality. One reason may be that those who trust NGOs believe that NGOs play a role in ensuring government accountability.

Panel B shows that higher trust in the President, the Mayor and political parties is also correlated with a greater preference for government (national and local) retention of the revenue from fees paid by polluting firms (hypothesis 2). In particular, in the specification including the full set of trust variables a one-level increase in trust in political parties and the Mayor results in a 5 percentage point and a 2 percentage point increase in the share of the revenue that a participant prefers the government to retain (column (4)). This implies that an individual who trust political parties a lot is willing to provide an approximately 110% greater share of resources to government control than an individual who does not trust them at all. The same results can be seen in columns (5)-(8), which show the results using the absolute difference in the number of units assigned to government and citizen control as the outcome variable.

Panel C shows that we do not find a statistically significant relationship between trust in the government and the preferred use of revenue from pollution fees to finance environmental public goods spending or environmental private goods spending (hypothesis 3). Part of the reason for this null result may be that the survey question asked individuals about the use of the revenue by the local government, and most participants were not willing to allocate a substantial share of the revenue to the local government (mean of 11% in Figure [A3](#)). However, we do find a correlation between the preferred use of revenue and trust in NGOs and in neighbors.



**Table 2: Absolute Trust and Policy Preferences**

Panel A: Increase Tax				
Variable	Absolute difference			
	Increase tax [1]	Increase tax [2]	Increase tax [3]	Increase tax [4]
Trust: Political Party	0.05*** (0.01)			0.01 (0.02)
Trust: President		0.05*** (0.01)		0.03** (0.02)
Trust: Mayor CDMX			0.05*** (0.01)	0.01 (0.02)
Trust: NGOs				0.05*** (0.01)
Trust: Neighbours				0.00 (0.01)
Trust: People in street				-0.00 (0.01)
Observations	1,731	1,728	1,727	1,688
R-squared	0.106	0.111	0.108	0.126
Controls	Yes	Yes	Yes	Yes
Mean dep.Var.	0.739	0.739	0.739	0.739

Panel B: Distribution of Resources to Government								
Variable	Share of units				Absolute difference			
	Dist. of Res. Gov. [1]	Dist. of Res. Gov. [2]	Dist. of Res. Gov. [3]	Dist. of Res. Gov. [4]	Dist. of Res. Gov. [5]	Dist. of Res. Gov. [6]	Dist. of Res. Gov. [7]	Dist. of Res. Gov. [8]
Trust: Political Party	0.06*** (0.01)			0.05*** (0.01)	1.20*** (0.20)			1.02*** (0.23)
Trust: President		0.03*** (0.01)		0.00 (0.01)		0.66*** (0.15)		0.03 (0.21)
Trust: Mayor CDMX			0.04*** (0.01)	0.02* (0.01)			0.78*** (0.16)	0.42* (0.22)
Trust: NGOs				-0.01 (0.01)				-0.27 (0.17)
Trust: Neighbours				0.01 (0.01)				0.11 (0.19)
Trust: People in street				-0.00 (0.01)				-0.05 (0.19)
Observations	1,715	1,714	1,713	1,675	1,715	1,714	1,713	1,675
R-squared	0.137	0.124	0.127	0.144	0.137	0.124	0.127	0.144
Controls	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Mean dep.Var.	0.231	0.231	0.231	0.231	-5.385	-5.385	-5.385	-5.385

Panel C: Use of Resources								
Variable	Share of units				Absolute difference			
	Use of Res. Public goods [1]	Use of Res. Public goods [2]	Use of Res. Public goods [3]	Use of Res. Public goods [4]	Use of Res. Public goods [5]	Use of Res. Public goods [6]	Use of Res. Public goods [7]	Use of Res. Public goods [8]
Trust: Political Party	0.01 (0.01)			0.00 (0.01)	0.16 (0.20)			0.04 (0.24)
Trust: President		0.01 (0.01)		0.01 (0.01)		0.19 (0.15)		0.26 (0.23)
Trust: Mayor CDMX			0.00 (0.01)	-0.01 (0.01)			0.06 (0.15)	-0.18 (0.23)
Trust: NGOs				0.02** (0.01)				0.41** (0.17)
Trust: Neighbours				-0.02* (0.01)				-0.31* (0.18)
Trust: People in street				-0.00 (0.01)				-0.02 (0.19)
Observations	1,729	1,725	1,726	1,687	1,729	1,725	1,726	1,687
R-squared	0.088	0.088	0.088	0.097	0.088	0.088	0.088	0.097
Controls	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Mean dep.Var.	0.637	0.637	0.637	0.637	2.741	2.741	2.741	2.741

Notes: Each panel shows regression results for a different dependent variable. Each column shows the regression coefficient and robust standard error in parenthesis corresponding to an OLS regression.  
\*\*\* p<0.01, \*\* p<0.05, \* p<0.1  
Demographic controls: age, gender, education, children dummy, number of household members, and BGA F.E.  
Policy controls: Megalopolis program, Pollution control (Megalopolis) and Environmental quality (policy topic)  
Trust control: Family and friends  
Trust is measured in absolute terms (increasing levels trust with higher numbers)

## 4.2 Perceived Public Goods Quality

Consistent with our results using trust variables, Table 3 shows that we find evidence consistent with hypotheses 4 and 5, but do not find evidence consistent with hypothesis 6. Panel A shows that perceived street quality is associated with a higher likelihood of supporting a specific tax to avoid air

pollution contingencies (hypothesis 4). This finding complements similar results in the literature. For example, [Xu and Li \(2016\)](#) and [Davidovic et al. \(2020\)](#) find that quality of government plays an important role in an individual's willingness to pay for environmental taxes.

Panel B shows that higher levels of reliability of water service provision (fewer interruptions in water service) is positively associated with support for government retention of revenue from air pollution fines (hypothesis 5). This finding complements evidence in the literature that associates government capacity with a preference for government spending on environmental issues ([Kulin and Johansson Sevä, 2019](#)).

Panel C shows that we do not find a significant relationship between trust in government and the preference for spending on environmental public goods or environmental private goods (hypothesis 6).

**Table 3:** Public Service Quality and Policy Preferences

Panel A: Increase Tax						
Variable	Absolute difference					
	Increase	Increase	Increase			
	tax [1]	tax [2]	tax [3]			
Water service frequency	-0.00 (0.01)		-0.00 (0.01)			
Street quality		0.04*** (0.02)	0.05*** (0.02)			
Observations	1,722	1,730	1,706			
R-squared	0.091	0.097	0.099			
Controls	Yes	Yes	Yes			
Mean dep.Var.	0.739	0.739	0.739			
Panel B: Distribution of Resources to Gov.						
Variable	Share of units			Absolute difference		
	Dist. of Res.	Dist. of Res.	Dist. of Res.	Dist. of Res.	Dist. of Res.	Dist. of Res.
	Gov. [1]	Gov. [2]	Gov. [3]	Gov. [4]	Gov. [5]	Gov. [6]
Water service frequency	0.02*** (0.01)		0.02*** (0.01)	0.34*** (0.11)		0.34*** (0.11)
Street quality		0.00 (0.01)	0.00 (0.01)		0.07 (0.23)	0.09 (0.24)
Observations	1,707	1,713	1,689	1,707	1,713	1,689
R-squared	0.116	0.111	0.117	0.116	0.111	0.117
Controls	Yes	Yes	Yes	Yes	Yes	Yes
Mean dep.Var.	0.231	0.231	0.231	-5.385	-5.385	-5.385
Panel C: Use of Resources to Public Goods						
Variable	Share of units			Absolute difference		
	Use of Res.	Use of Res.	Use of Res.	Use of Res.	Use of Res.	Use of Res.
	Public goods [1]	Public goods [2]	Public goods [3]	Public goods [4]	Public goods [5]	Public goods [6]
Water service frequency	0.00 (0.01)		-0.00 (0.01)	0.02 (0.12)		-0.02 (0.11)
Street quality		0.01 (0.01)	0.01 (0.01)		0.23 (0.22)	0.23 (0.23)
Observations	1,719	1,724	1,700	1,719	1,724	1,700
R-squared	0.085	0.089	0.088	0.085	0.089	0.088
Controls	Yes	Yes	Yes	Yes	Yes	Yes
Mean dep.Var.	0.637	0.637	0.637	2.741	2.741	2.741

Notes: Each panel shows regression results for a different dependent variable. Each column shows the regression coefficient and robust standard error in parenthesis corresponding to an OLS regression. \*\*\* p<0.01, \*\* p<0.05, \* p<0.1

Demographic controls: age, gender, education, children dummy, number of household members, and BGA F.E.

Policy controls: Megalopolis program, Pollution control (Megalopolis) and Environmental quality (policy topic)

Water service frequency: 1 (every day interruptions) to 5 (Never)

Street quality: 1 (Very bad) to 4 (Very good)

### 4.3 Robustness

We show the robustness of our main results in three ways. First, we replicate Table 2 using relative measures of trust. Relative measures of trust remove differences in participants’ perceptions of the trust scale used to record their trust levels. Given the construction of the two sets of trust variables, we expect the coefficients in Appendix Table A4 to be the opposite sign of those in Table 2. Appendix Table A4 shows that the correlations between trust and policy preferences are robust to using relative trust measures.

Second, we show that our main results are robust to restricting the sample to participants who reported their highest level of trust in friends and family. This excludes 19% of our sample, whose highest reported trust level is for a party other than friends and family. Since we assume that most individuals have the most trust in their friends and family, it is possible that participants who do not report their highest trust level for friends and family misunderstood the exercise. Appendix Table A5 shows that summary statistics for this sample are very similar to those of the full sample presented in Table 1. Appendix Tables A7 and A8 show that the results using absolute trust and relative trust are consistent with the results for the full sample presented in Table 2. Appendix Table A9 shows that the correlations between the perceived quality of public goods and policy preferences presented in Table 3 are robust to using the trimmed sample.

Third, we show that our main results are robust to the inclusion of household income as an additional control. We do not include income as a control in our main specification because nearly half of our participants declined to report their household income. However, income could be correlated with reported trust levels, causing omitted variable bias. In the sample of participants who report their household income, Appendix Tables A10 and A11 demonstrate that our main results are robust to including household income as an additional control.

## 5 Conclusion

Trust levels in the Latin American region are lower than in other regions of the world and have been falling for the last two decades (Scartascini and Valle Luna, 2020a). This development holds significant implications, as trust facilitates transactions between individuals, firms, and governments, and it also affects the relationship between citizens and the state (Keefer et al., 2018). If citizens have low trust in government, they will not be willing to support public policies that have intertemporally unbalanced costs and benefits, require high levels of competence to implement, have an effectiveness that is difficult to observe, and give governments greater discretion over how to allocate resources. Unfortunately, these characteristics are common to many public policies to improve air quality, and environmental public policies in general.

Using a novel database from a survey of about 2,000 citizens of Mexico City, we find correlational evidence supporting several of the hypotheses considered in this paper. Higher trust in government is correlated with higher reported willingness to pay an additional tax to reduce air pollution and with higher reported support for government retention of the additional revenue it collects from

polluting firms. We do not find that higher trust in government is correlated with greater reported support for the provision of environmental public goods rather than environmental private goods by the local government. Relatively low preference for local government retention of the revenue may obscure preferences on public and private goods. We find similar results when using participants' evaluations of public good provision (street quality or water service frequency) as a measure of government competence. Those who receive (or perceive) better services tend to report greater support for an additional tax to improve air quality and more support for government control of revenue collected from polluting firms. Again, using perceived public goods quality as a measure of government competence, we find no relationship between trust in government and the reported preference for spending on environmental public or private goods.

While we provide new, specific evidence to the literature, there is still plenty to improve upon. For example, more granular measures of trust that separates competence from benevolence and honesty from predictability would provide more precise information about the dimensions of trust that matter most for environmental policy support. More importantly, causal evidence on the linkages between trust and policy demand, obtained, for instance, by allocating information about government qualities randomly across groups, would be a substantial improvement.

Although the results are based on correlations from a survey of about 2,000 individuals in Mexico City, they provide further evidence that trust in governments and institutions play an important role in citizens' support for environmental and air quality policies. Fortunately, many steps that governments can take to increase their citizens' trust are simply good policies. For example, providing high quality public services and local investment (Carrillo et al., 2021; Scartascini and Valle Luna, 2020b), implementing effective responses to crises and disasters (Frost et al., 2020), and increasing the transparency of their actions (Alessandro et al., 2021) all provide direct benefits to citizens, while also leading to greater trust by citizens. In the long run, there is a virtuous circle connecting policies that generate greater trust with demand for better policies. Understanding the role of trust in the demand for air quality and climate change policies is particularly important since these are some of the largest collective actions problems of our generation.

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## Appendix A

### Appendix A.1 Correlations Between Trust Variables

**Table A1:** Correlation Matrix: Trust Variables

	Trust: Political Party	Trust: President	Trust: Mayor CDMX	Trust: NGOs	Trust: Neighbours	Trust: People in street	Trust: Family and friends	Trust: Media
Trust: Political Party	1.00							
Trust: President	0.52***	1.00						
Trust: Mayor CDMX	0.49***	0.74***	1.00					
Trust: NGOs	0.24***	0.20***	0.25***	1.00				
Trust: Neighbours	0.21***	0.18***	0.15***	0.14***	1.00			
Trust: People in street	0.25***	0.18***	0.14***	0.12***	0.47***	1.00		
Trust: Family and friends	0.18***	0.17***	0.16***	0.20***	0.38***	0.29***	1.00	
Trust: Media	0.27***	0.17***	0.26***	0.30***	0.07**	0.12***	0.12***	1.00

Notes: \*  $p < 0.05$ , \*\*  $p < 0.01$ , \*\*\*  $p < 0.001$

$N = 1785$

### Appendix A.2 Trust Distributions

**Table A2:** Distribution of Absolute and Relative Trust Variables

Panel A: Absolute Trust	Scale	Neighbours	People in street	Family and friends	Political Party	President	Mayor CDMX	Media	NGOs
	No trust	17%	30%	4%	47%	30%	32%	23%	17%
	Trust a bit	31%	38%	16%	35%	27%	30%	36%	31%
	Some trust	35%	23%	19%	15%	25%	26%	32%	37%
	Trust a lot	18%	9%	61%	3%	17%	12%	10%	15%
	Mean	2,53	2,11	3,38	1,72	2,28	2,17	2,27	2,50
Panel B: Relative Trust	Scale	Trust F/F - Neighbours	Trust F/F - People/Street	Trust F/F - Pol.Parties	Trust F/F - President	Trust F/F - Mayor CDMX	Trust F/F - Media	Trust F/F - NGO's	
	-3	0%	0%	0%	0%	0%	0%	1%	
	-2	1%	1%	0%	2%	1%	2%	2%	
	-1	5%	3%	1%	6%	5%	6%	7%	
	0	33%	23%	15%	27%	24%	23%	30%	
	1	36%	30%	25%	26%	27%	29%	32%	
	2	19%	30%	33%	24%	25%	26%	21%	
	3	6%	14%	26%	16%	18%	13%	8%	
	Mean	0,84	1,26	1,65	1,08	1,19	1,1	0,87	

### Appendix A.3 Missing Values

**Table A3:** Missing Values in Outcome Variables

Variable	Description	Don't know	Refuse to answer
Megalopolis Program	Scale (1=Not effective, 10=Very effective)	44	5
Pollution control (Megalopolis)	Scale (1=Not effective, 10=Very effective)	65	5
Environmental quality (policy topic)	Scale (0=Not important, 10=All the importance)	17	0
Increase Tax	Proportion (0=no coins, 1=all coins)	19	3
Distribution of Resources: Government	Scale(-10=Resources to citizens, 10=Resources to government)	45	0
Use of Resources: Public goods	Scale(-10=Resources to privates, 10=resources to public)	32	0
Coin share: Government	Proportion (0=no coins, 1=all coins)	45	0
Coin share: Public	Proportion (0=no coins, 1=all coins)	32	0

Notes: "Don't know" and "refuse to respond" responses are coded as missing values for outcome variables.

Number of participants responding "don't know" and "refuse to respond" show for each outcome variable.



## Appendix A.4 Relative Trust Results

**Table A4:** Relative Trust and Policy Preferences

Panel A: Increase Tax								
Variable	Absolute difference							
	Increase tax [1]	Increase tax [2]	Increase tax [3]	Increase tax [4]				
Trust F/F-Pol.Parties	0.00 (0.01)			0.02 (0.02)				
Trust F/F-President		-0.01 (0.01)		-0.03** (0.02)				
Trust F/F-Mayor CDMX			-0.01 (0.01)	0.01 (0.02)				
Trust F/F-NGO's				-0.03** (0.01)				
Trust F/F-Neighbours				0.01 (0.01)				
Trust F/F-People/Street				0.02* (0.01)				
Observations	1,731	1,728	1,727	1,688				
R-squared	0.090	0.092	0.090	0.100				
Controls	Yes	Yes	Yes	Yes				
Mean dep.Var.	0.739	0.739	0.739	0.739				

Panel B: Distribution of Resources to Government								
Variable	Share of units				Absolute difference			
	Dist. of Res. Gov. [1]	Dist. of Res. Gov. [2]	Dist. of Res. Gov. [3]	Dist. of Res. Gov. [4]	Dist. of Res. Gov. [5]	Dist. of Res. Gov. [6]	Dist. of Res. Gov. [7]	Dist. of Res. Gov. [8]
Trust F/F-Pol.Parties	-0.02*** (0.01)			-0.03*** (0.01)	-0.41*** (0.14)			-0.67*** (0.22)
Trust F/F-President		-0.02** (0.01)		-0.00 (0.01)		-0.31** (0.13)		-0.03 (0.22)
Trust F/F-Mayor CDMX			-0.02*** (0.01)	-0.01 (0.01)			-0.35*** (0.13)	-0.28 (0.22)
Trust F/F-NGO's				0.03*** (0.01)				0.55*** (0.16)
Trust F/F-Neighbours				0.00 (0.01)				0.05 (0.19)
Trust F/F-People/Street				0.01 (0.01)				0.26 (0.19)
Observations	1,715	1,714	1,713	1,675	1,715	1,714	1,713	1,675
R-squared	0.118	0.114	0.115	0.130	0.118	0.114	0.115	0.130
Controls	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Mean dep.Var.	0.231	0.231	0.231	0.231	-5.385	-5.385	-5.385	-5.385

Panel C: Use of Public Resources to Public Goods								
Variable	Share of units				Absolute difference			
	Use of Res. Public goods [1]	Use of Res. Public goods [2]	Use of Res. Public goods [3]	Use of Res. Public goods [4]	Use of Res. Public goods [5]	Use of Res. Public goods [6]	Use of Res. Public goods [7]	Use of Res. Public goods [8]
Trust F/F-Pol.Parties	0.00 (0.01)			0.00 (0.01)	0.06 (0.14)			0.07 (0.23)
Trust F/F-President		-0.00 (0.01)		-0.01 (0.01)		-0.04 (0.12)		-0.26 (0.23)
Trust F/F-Mayor CDMX			0.00 (0.01)	0.01 (0.01)			0.07 (0.12)	0.23 (0.23)
Trust F/F-NGO's				-0.02** (0.01)				-0.32** (0.16)
Trust F/F-Neighbours				0.02** (0.01)				0.36** (0.18)
Trust F/F-People/Street				0.00 (0.01)				0.09 (0.19)
Observations	1,729	1,725	1,726	1,687	1,729	1,725	1,726	1,687
R-squared	0.086	0.086	0.086	0.095	0.086	0.086	0.086	0.095
Controls	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Mean dep.Var.	0.637	0.637	0.637	0.637	2.741	2.741	2.741	2.741

Notes: Each panel shows regression results for a different dependent variable.  
Each column shows the regression coefficient and robust standard error in parenthesis corresponding to an OLS regression.  
\*\*\* p<0.01, \*\* p<0.05, \* p<0.1  
Demographic controls: age, gender, education, children dummy, number of household members, and BGA F.E.  
Policy controls: Megalopolis program, Pollution control (Megalopolis) and Environmental quality (policy topic)  
Trust is measured in relative terms (is the difference between trust in family and friends minus the variable in each row)

## Appendix A.5 Trimmed Sample Statistics

**Table A5:** Summary Statistics (Trimmed Sample)

Variable	Description	N	Mean	S.D.	Min	Max
		(1)	(2)	(3)	(4)	(5)
Age	Continuous	1508	41	15	18	84
Gender	Dummy (Male=1)	1511	0.36	0.48	0	1
Education	Scale (0=No education, 4=Superior education)	1511	2.38	0.94	0	4
Family with children	Dummy (Yes=1)	1511	.53	.49	0	1
Household Size	Continuous	1511	3.95	1.76	1	13
Megalopolis Program	Scale 1 to 10 (1=Not effective, 10=Very effective)	1471	5.74	2.61	1	10
Pollution control (Megalopolis)	Scale 1 to 10 (1=Not effective, 10=Very effective)	1452	4.85	2.57	1	10
Environmental quality (policy topic)	Scale 0 to 10 (0=Not important, 10=All the importance)	1497	3.02	2.27	0	10
Air pollution inevitable in big cities	Dummy (1=Yes)	1499	0.67	0.47	0	1
Air pollution inevitable in CDMX	Dummy (1=Yes)	1484	0.64	0.48	0	1
Air pollution is a problem in Mexico City	Scale (1=Not a problem, 4=A big problem)	1,509	3.71	.59	1	4
Air quality in the <i>colonia</i>	Scale (1=Lower than city, 4=Better than city)	1499	2.38	0.77	1	4
Pollution: CDMX take effective measures	Dummy (1=Yes)	1490	0.28	0.45	0	1
Trust: Family and friends	Scale 1 to 4 (1=No trust, 4=Trust a lot)	1505	3.68	0.62	1	4
Trust: Neighbours	Scale 1 to 4 (1=No trust, 4=Trust a lot)	1499	2.61	0.95	1	4
Trust: People in the street	Scale 1 to 4 (1=No trust, 4=Trust a lot)	1508	2.17	0.94	1	4
Trust: Political Party	Scale 1 to 4 (1=No trust, 4=Trust a lot)	1499	1.74	0.82	1	4
Trust: President	Scale 1 to 4 (1=No trust, 4=Trust a lot)	1498	2.25	1.07	1	4
Trust: Mayor CDMX	Scale 1 to 4 (1=No trust, 4=Trust a lot)	1494	2.15	1.01	1	4
Trust: Media	Scale 1 to 4 (1=No trust, 4=Trust a lot)	1501	2.25	0.91	1	4
Trust: NGOs	Scale 1 to 4 (1=No trust, 4=Trust a lot)	1487	2.50	0.93	1	4
Trust F/F-Neighbours	Distance	1494	1.07	0.91	0	3
Trust F/F-People/Street	Distance	1502	1.50	0.98	0	3
Trust F/F-Pol.Parties	Distance	1493	1.94	0.92	0	3
Trust F/F-President	Distance	1492	1.43	1.06	0	3
Trust F/F-Mayor CDMX	Distance	1488	1.53	1.05	0	3
Trust F/F-Media	Distance	1495	1.42	0.99	0	3
Trust F/F-NGO's	Distance	1482	1.17	0.96	0	3
Water service frequency	Scale 1 to 5 (1=Everyday interruptions, 5=Never interrupts)	1491	3.41	1.54	1	5
Street quality	Scale 1 to 4 (1=Very Bad, 4=Very Good)	1492	2.21	0.71	1	4
Increase Tax	Dummy (1=Pay tax)	1493	0.74	0.44	0	1
Distribution of Resources: Government	Scale (-10=Resources to citizens, 10=Resources to government)	1473	-5.38	6.13	-10	10
Use of Resources: Public goods	Scale (-10=Resources to privates, 10=resources to public)	1487	2.80	5.86	-10	10
Coin share: Government	Proportion (0=no coins, 1=all coins)	1473	0.23	0.31	0	1
Coin share: Public	Proportion (0=no coins, 1=all coins)	1487	0.64	0.29	0	1

Note: Sample restricted to individuals with weakly highest reported trust in friends and family. Excludes 19.15% (358 observations) of the sample.

**Table A6:** Correlation Matrix: Trust Variables (Trimmed Sample)

	Trust: Neighbours	Trust: People in street	Trust: Family and friends	Trust: Political Party	Trust: President	Trust: Mayor CDMX	Trust: Media	Trust: NGOs
Trust: Neighbours	1.00							
Trust: People in street	0.46***	1.00						
Trust: Family and friends	0.39***	0.28***	1.00					
Trust: Political Party	0.22***	0.25***	0.22***	1.00				
Trust: President	0.21***	0.20***	0.29***	0.52***	1.00			
Trust: Mayor CDMX	0.17***	0.15***	0.25***	0.49***	0.76***	1.00		
Trust: Media	0.11***	0.15***	0.21***	0.30***	0.20***	0.28***	1.00	
Trust: NGOs	0.18***	0.14***	0.29***	0.26***	0.23***	0.27***	0.30***	1.00

Note: Sample restricted to individuals with weakly highest reported trust in friends and family. Excludes 19.15% (358 observations) of the sample.

\*  $p < 0.05$ , \*\*  $p < 0.01$ , \*\*\*  $p < 0.001$

$N = 1443$

## Appendix A.6 Trimmed Sample Results

**Table A7: Absolute Trust and Policy Preferences (Trimmed Sample)**

Panel A: Increase Tax				
Variable	Absolute difference			
	Increase tax [1]	Increase tax [2]	Increase tax [3]	Increase tax [4]
Trust: Political Party	0.05*** (0.01)			0.02 (0.02)
Trust: President		0.05*** (0.01)		0.02 (0.02)
Trust: Mayor CDMX			0.05*** (0.01)	0.01 (0.02)
Trust: NGOs				0.05*** (0.01)
Trust: Neighbours				-0.00 (0.01)
Trust: People in street				-0.00 (0.01)
Observations	1.395	1.393	1.391	1.360
R-squared	0.135	0.136	0.136	0.150
Controls	Yes	Yes	Yes	Yes
Mean dep.Var.	0.739	0.739	0.739	0.739

Panel B: Distribution of Resources to Government								
Variable	Share of units				Absolute difference			
	Dist. of Res. Gov. [1]	Dist. of Res. Gov. [2]	Dist. of Res. Gov. [3]	Dist. of Res. Gov. [4]	Dist. of Res. Gov. [5]	Dist. of Res. Gov. [6]	Dist. of Res. Gov. [7]	Dist. of Res. Gov. [8]
Trust: Political Party	0.06*** (0.01)			0.05*** (0.01)	1.15*** (0.22)			0.99*** (0.25)
Trust: President		0.03*** (0.01)		0.00 (0.01)		0.66*** (0.18)		0.01 (0.26)
Trust: Mayor CDMX			0.04*** (0.01)	0.03** (0.01)			0.80*** (0.19)	0.52** (0.26)
Trust: NGOs				-0.02* (0.01)				-0.35* (0.20)
Trust: Neighbours				0.00 (0.01)				0.05 (0.22)
Trust: People in street				-0.01 (0.01)				-0.18 (0.21)
Observations	1,381	1,381	1,379	1,350	1,381	1,381	1,379	1,350
R-squared	0.149	0.138	0.143	0.160	0.149	0.138	0.143	0.160
Controls	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Mean dep.Var.	0.236	0.236	0.236	0.236	-5.276	-5.276	-5.276	-5.276

Panel C: Use of Resources to Public Goods								
Variable	Share of units				Absolute difference			
	Use of Res. Public goods [1]	Use of Res. Public goods [2]	Use of Res. Public goods [3]	Use of Res. Public goods [4]	Use of Res. Public goods [5]	Use of Res. Public goods [6]	Use of Res. Public goods [7]	Use of Res. Public goods [8]
Trust: Political Party	0.01 (0.01)			0.00 (0.01)	0.20 (0.21)			0.01 (0.26)
Trust: President		0.01* (0.01)		0.02 (0.01)		0.29* (0.17)		0.36 (0.27)
Trust: Mayor CDMX			0.01 (0.01)	-0.01 (0.01)			0.14 (0.17)	-0.17 (0.27)
Trust: NGOs				0.03*** (0.01)				0.57*** (0.19)
Trust: Neighbours				-0.02* (0.01)				-0.40* (0.21)
Trust: People in street				0.00 (0.01)			(0.21)	0.03
Observations	1.394	1.392	1.392	1.361	1.394	1.392	1.392	1.361
R-squared	0.116	0.117	0.115	0.129	0.116	0.117	0.115	0.129
Controls	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Mean dep.Var.	0.640	0.640	0.640	0.640	2.802	2.802	2.802	2.802

Note: Sample restricted to individuals with weakly highest reported trust in friends and family. Excludes 19.15% (358 observations) of the sample.

Each panel shows regression results for a different dependent variable.

Each column shows the regression coefficient and robust standard error in parenthesis corresponding to an OLS regression.

\*\*\* p<0.01, \*\* p<0.05, \* p<0.1

Demographic controls: age, gender, education, children dummy, number of household members, and BGA F.E.

Policy controls: Megalopolis program, Pollution control (Megalopolis) and Environmental quality (policy topic)

Trust control: Family and friends

Trust is measured in absolute terms (increasing levels trust with higher numbers)

**Table A8: Relative Trust and Policy Preferences (Trimmed Sample)**

Panel A: Increase Tax				
Variable	Absolute difference			
	Increase tax [1]	Increase tax [2]	Increase tax [3]	Increase tax [4]
Trust F/F-Pol.Parties	-0.00 (0.01)			0.02 (0.02)
Trust F/F-President		-0.02* (0.01)		-0.03* (0.02)
Trust F/F-Mayor CDMX			-0.02 (0.01)	0.00 (0.02)
Trust F/F-NGO's				-0.03** (0.01)
Trust F/F-Neighbours				0.02 (0.02)
Trust F/F-People/Street				0.02 (0.01)
Observations	1,395	1,393	1,391	1,360
R-squared	0.107	0.109	0.108	0.116
Controls	No	No	No	No
Mean dep.Var.	0.739	0.739	0.739	0.739

Panel B: Distribution of Resources to Government								
Variable	Share of units				Absolute difference			
	Dist. of Res. Gov. [1]	Dist. of Res. Gov. [2]	Dist. of Res. Gov. [3]	Dist. of Res. Gov. [4]	Dist. of Res. Gov. [5]	Dist. of Res. Gov. [6]	Dist. of Res. Gov. [7]	Dist. of Res. Gov. [8]
Trust F/F-Pol.Parties	-0.03*** (0.01)			-0.03*** (0.01)	-0.63*** (0.18)			-0.69*** (0.24)
Trust F/F-President		-0.02*** (0.01)		-0.00 (0.01)		-0.49*** (0.17)		-0.08 (0.26)
Trust F/F-Mayor CDMX			-0.03*** (0.01)	-0.02 (0.01)			-0.55*** (0.17)	-0.39 (0.26)
Trust F/F-NGO's				0.03*** (0.01)				0.53*** (0.20)
Trust F/F-Neighbours				0.00 (0.01)				0.04 (0.21)
Trust F/F-People/Street				0.02 (0.01)			(0.22)	0.34 (0.21)
Observations	1,381	1,381	1,379	1,350	1,381	1,381	1,379	1,350
R-squared	0.134	0.130	0.133	0.149	0.134	0.130	0.133	0.149
Controls	No	No	No	No	No	No	No	No
Mean dep.Var.	0.236	0.236	0.236	0.236	-5.276	-5.276	-5.276	-5.276

Panel C: Use of Resources to Public Goods								
Variable	Share of units				Absolute difference			
	Use of Res. Public goods [1]	Use of Res. Public goods [2]	Use of Res. Public goods [3]	Use of Res. Public goods [4]	Use of Res. Public goods [5]	Use of Res. Public goods [6]	Use of Res. Public goods [7]	Use of Res. Public goods [8]
Trust F/F-Pol.Parties	0.00 (0.01)			0.01 (0.01)	0.06 (0.19)			0.17 (0.25)
Trust F/F-President		-0.01 (0.01)		-0.02 (0.01)		-0.16 (0.16)		-0.40 (0.27)
Trust F/F-Mayor CDMX			0.00 (0.01)	0.01 (0.01)			0.02 (0.16)	0.25 (0.27)
Trust F/F-NGO's				-0.02** (0.01)				-0.47** (0.19)
Trust F/F-Neighbours				0.02** (0.01)				0.45** (0.20)
Trust F/F-People/Street				0.00 (0.01)				0.07 (0.21)
Observations	1,394	1,392	1,392	1,361	1,394	1,392	1,392	1,361
R-squared	0.112	0.113	0.111	0.125	0.112	0.113	0.111	0.125
Controls	No	No	No	No	No	No	No	No
Mean dep.Var.	0.640	0.640	0.640	0.640	2.802	2.802	2.802	2.802

Note: Sample restricted to individuals with weakly highest reported trust in friends and family. Excludes 19.15% (358 observations) of the sample.

Each panel shows regression results for a different dependent variable.

Each column shows the regression coefficient and robust standard error in parenthesis corresponding to an OLS regression.

\*\*\* p<0.01, \*\* p<0.05, \* p<0.1

Demographic controls: age, gender, education, children dummy, number of household members, and BGA F.E.

Policy controls: Megalopolis program, Pollution control (Megalopolis) and Environmental quality (policy topic)

Trust is measured in relative terms (is the difference between trust in family and friends minus the variable in each row)

**Table A9: Public Service Quality and Policy Preferences (Trimmed Sample)**

Panel A: Increase Tax						
Variable	Absolute difference					
	Increase tax [1]	Increase tax [2]	Increase tax [3]			
Water service frequency	0.00 (0.01)		0.00 (0.01)			
Street quality		0.05*** (0.02)	0.06*** (0.02)			
Observations	1,392	1,395	1,379			
R-squared	0.107	0.114	0.115			
Controls	Yes	Yes	Yes			
Mean dep.Var.	0.739	0.739	0.739			
Panel B: Distribution of Resources to Government						
Variable	Share of units			Absolute difference		
	Dist. of Res.	Dist. of Res.	Dist. of Res.	Dist. of Res.	Dist. of Res.	Dist. of Res.
	Gov. [1]	Gov. [2]	Gov. [3]	Gov. [4]	Gov. [5]	Gov. [6]
Water service frequency	0.01* (0.01)		0.01* (0.01)	0.24* (0.13)		0.25* (0.13)
Street quality		-0.00 (0.01)	-0.00 (0.01)		-0.02 (0.26)	-0.02 (0.26)
Observations	1,379	1,380	1,364	1,379	1,380	1,364
R-squared	0.128	0.127	0.129	0.128	0.127	0.129
Controls	Yes	Yes	Yes	Yes	Yes	Yes
Mean dep.Var.	0.236	0.236	0.236	-5.276	-5.276	-5.276
Panel C: Use of Resources to Public Goods						
Variable	Share of units			Absolute difference		
	Use of Res.	Use of Res.	Use of Res.	Use of Res.	Use of Res.	Use of Res.
	Public goods [1]	Public goods [2]	Public goods [3]	Public goods [4]	Public goods [5]	Public goods [6]
Water service frequency	0.00 (0.01)		-0.00 (0.01)	0.03 (0.13)		-0.02 (0.13)
Street quality		0.01 (0.01)	0.01 (0.01)		0.25 (0.25)	0.23 (0.25)
Observations	1,391	1,391	1,375	1,391	1,391	1,375
R-squared	0.112	0.115	0.116	0.112	0.115	0.116
Controls	Yes	Yes	Yes	Yes	Yes	Yes
Mean dep.Var.	0.640	0.640	0.640	2.802	2.802	2.802

Note: Sample restricted to individuals with weakly highest reported trust in friends and family. Excludes 19.15% (358 observations) of the sample. Each panel shows regression results for a different dependent variable. Each column shows the regression coefficient and robust standard error in parenthesis corresponding to an OLS regression.

\*\*\* p<0.01, \*\* p<0.05, \* p<0.1

Demographic controls: age, gender, education, children dummy, number of household members, and BGA F.E.

Policy controls: Megalopolis program, Pollution control (Megalopolis) and Environmental quality (policy topic)

Water service frequency: 1 (every day interruptions) to 5 (Never)

Street quality: 1 (Very bad) to 4 (Very good)

## Appendix A.7 Including Income as Additional Control

**Table A10: Absolute Trust and Policy Preferences**

Panel A: Increase Tax					
Variable	Absolute difference				
	Increase	Increase	Increase	Increase	
	tax	tax	tax	tax	
	[1]	[2]	[3]	[4]	
Trust: Political Party	0.07*** (0.02)			0.04* (0.02)	
Trust: President		0.04*** (0.01)		-0.00 (0.02)	
Trust: Mayor CDMX			0.06*** (0.01)	0.04** (0.02)	
Trust: NGOs				0.03* (0.02)	
Trust: Neighbours				-0.01 (0.02)	
Trust: People in street				-0.00 (0.02)	
Observations	836	832	831	817	
R-squared	0.175	0.173	0.181	0.192	
Controls	Yes	Yes	Yes	Yes	
Mean dep.Var.		0.739	0.739	0.739	0.739

Panel B: Distribution of Resources to Government								
Variable	Share of units				Absolute difference			
	Dist. of Res.	Dist. of Res.	Dist. of Res.	Dist. of Res.	Dist. of Res.	Dist. of Res.	Dist. of Res.	Dist. of Res.
	Gov.	Gov.	Gov.	Gov.	Gov.	Gov.	Gov.	Gov.
	[1]	[2]	[3]	[4]	[5]	[6]	[7]	[8]
Trust: Political Party	0.06*** (0.01)			0.05*** (0.02)	1.23*** (0.29)			1.03*** (0.35)
Trust: President		0.03*** (0.01)		0.01 (0.02)		0.65*** (0.22)		0.14 (0.31)
Trust: Mayor CDMX			0.04*** (0.01)	0.02 (0.02)			0.72*** (0.23)	0.30 (0.32)
Trust: NGOs				-0.01 (0.01)				-0.25 (0.25)
Trust: Neighbours				0.00 (0.01)				0.05 (0.27)
Trust: People in street				0.00 (0.01)				0.06 (0.29)
Observations	829	826	825	812	829	826	825	812
R-squared	0.240	0.231	0.234	0.250	0.240	0.231	0.234	0.250
Controls	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Mean dep.Var.	0.231	0.231	0.231	0.231	-5.385	-5.385	-5.385	-5.385

height

Panel C: Use of Resources to Public Goods								
Variable	Share of units				Absolute difference			
	Use of Res.	Use of Res.	Use of Res.	Use of Res.	Use of Res.	Use of Res.	Use of Res.	Use of Res.
	Public goods	Public goods	Public goods	Public goods	Public goods	Public goods	Public goods	Public goods
	[1]	[2]	[3]	[4]	[5]	[6]	[7]	[8]
Trust: Political Party	0.00 (0.01)			-0.00 (0.02)		0.05 (0.28)		-0.04 (0.35)
Trust: President		0.01 (0.01)		0.01 (0.02)		0.10 (0.21)		0.10 (0.33)
Trust: Mayor CDMX			0.00 (0.01)	-0.01 (0.02)			0.01 (0.22)	-0.10 (0.34)
Trust: NGOs				0.02 (0.01)				0.38 (0.25)
Trust: Neighbours				-0.01 (0.01)				-0.22 (0.28)
Trust: People in street				0.01 (0.01)				0.21 (0.28)
hline								
Observations	834	830	830	816	834	830	830	816
R-squared	0.171	0.173	0.172	0.187	0.171	0.173	0.172	0.187
Controls	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Mean dep.Var.	0.637	0.637	0.637	0.637	2.741	2.741	2.741	2.741

Notes: Each panel shows regression results for a different dependent variable.

Each column shows the regression coefficient and the standard error in parenthesis corresponding to an OLS regression.

\*\*\* p<0.01, \*\* p<0.05, \* p<0.1

Demographic controls: age, gender, education, income, children dummy, household size and BGA F.E.;

Policy controls: Megalopolis program, Pollution control (Megalopolis) and Environmental quality (policy topic)

Trust control: Family and friends

Trust is measured in absolute terms (increasing levels trust with higher numbers)

**Table A11:** Public Service Quality and Policy Preferences

Panel A: Increase Tax						
Variable	Absolute difference					
	Increase tax [1]	Increase tax [2]	Increase tax [3]			
Water service frequency	-0.00 (0.01)		-0.00 (0.01)			
Street quality		0.04 (0.02)	0.04 (0.02)			
Observations	828	832	822			
R-squared	0.152	0.154	0.156			
Controls	Yes	Yes	Yes			
Mean dep.Var.	0.739	0.739	0.739			

Panel B: Distribution of Resources to Government						
Variable	Share of units			Absolute difference		
	Dist. of Res. Gov. [1]	Dist. of Res. Gov. [2]	Dist. of Res. Gov. [3]	Dist. of Res. Gov. [4]	Dist. of Res. Gov. [5]	Dist. of Res. Gov. [6]
Water service frequency	0.02** (0.01)		0.02** (0.01)	0.38** (0.16)		0.39** (0.16)
Street quality		0.00 (0.02)	0.00 (0.02)		0.02 (0.35)	0.06 (0.35)
Observations	821	825	815	821	825	815
R-squared	0.224	0.213	0.224	0.224	0.213	0.224
Controls	Yes	Yes	Yes	Yes	Yes	Yes
Mean dep.Var.	0.231	0.231	0.231	-5.385	-5.385	-5.385

Panel C: Use of Resources to Public Goods						
Variable	Share of units			Absolute difference		
	Use of Res. Public goods [1]	Use of Res. Public goods [2]	Use of Res. Public goods [3]	Use of Res. Public goods [4]	Use of Res. Public goods [5]	Use of Res. Public goods [6]
Water service frequency	-0.00 (0.01)		-0.00 (0.01)	-0.08 (0.16)		-0.08 (0.16)
Street quality		0.01 (0.02)	0.01 (0.02)		0.11 (0.33)	0.11 (0.33)
Observations	826	829	819	826	829	819
R-squared	0.174	0.170	0.173	0.174	0.170	0.173
Controls	Yes	Yes	Yes	Yes	Yes	Yes
Mean dep.Var.	0.637	0.637	0.637	2.741	2.741	2.741

Notes: Each panel shows regression results for a different dependent variable.

Each column shows the regression coefficient and the standard error in parenthesis corresponding to an OLS regression.

\*\*\* p<0.01, \*\* p<0.05, \* p<0.1

Demographic controls: age, gender, education, income, children dummy, household size, and BGA F.E.;

Policy controls: Megalopolis program, Pollution control (Megalopolis) and Environmental quality (policy topic)

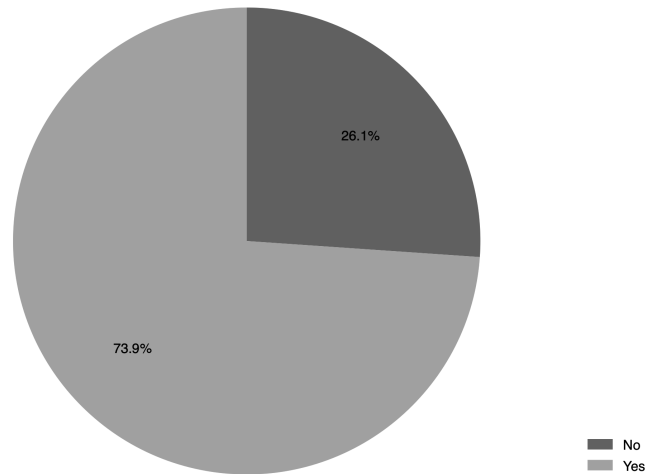
Water service frequency: 1 (every day interruptions) to 5 (Never)

Street quality: 1 (Very bad) to 4 (Very good)

## Appendix A.8 Figures

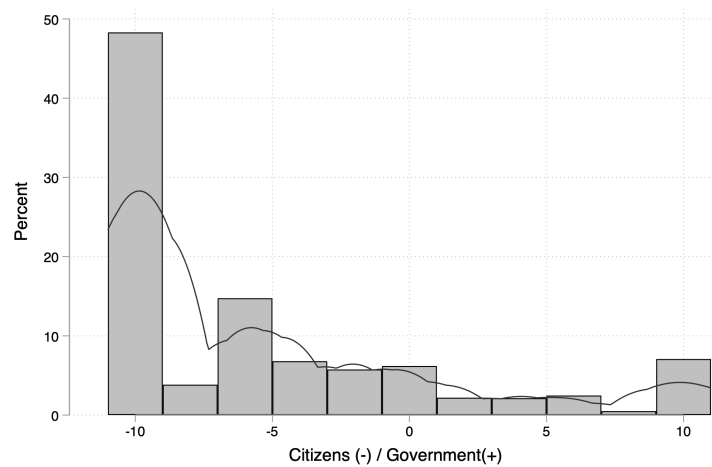
### Appendix A.8.1 Environmental Policies

**Figure A1:** Support for a Tax Increase to Improve Air Quality



Note: Percent of participants answering yes and no to the survey question “If the government commits to a plan that reduces air pollution enough to avoid all contingencies, would you be willing to pay \$ 100 per year in taxes?”.

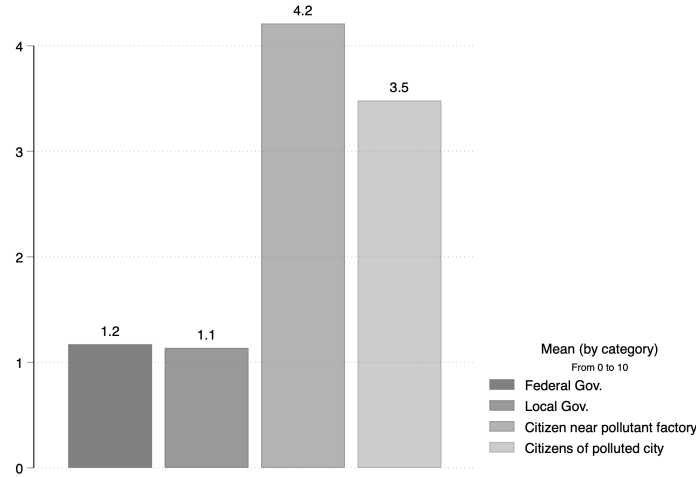
**Figure A2:** Preference for Public or Private Allocation of Resources



Note: Preference for government retention or distribution to citizens of revenue from fines imposed on polluting firms. Participants allocated 10 units, representing the revenue, across four options (1. the government of the city where the factory is located, 2. the government of the nation, 3. citizens who live near the factory, 4. All the inhabitants of the city where the factory is located) in the following survey question: “If there is a possibility that companies pay a tax for polluting, who do you think should receive that money?”. This figure shows the distribution of the variable constructed as the sum of the units allocated to options 1 and 2 minus the sum of the units allocated to options 3 and 4.

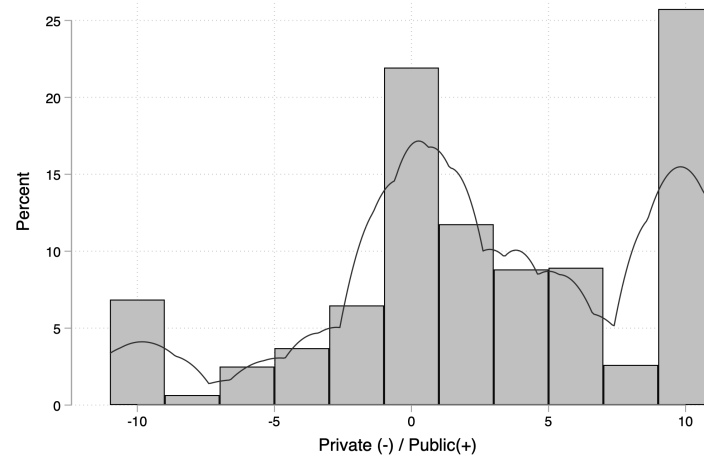


**Figure A3: Preference for Distribution of Resources**



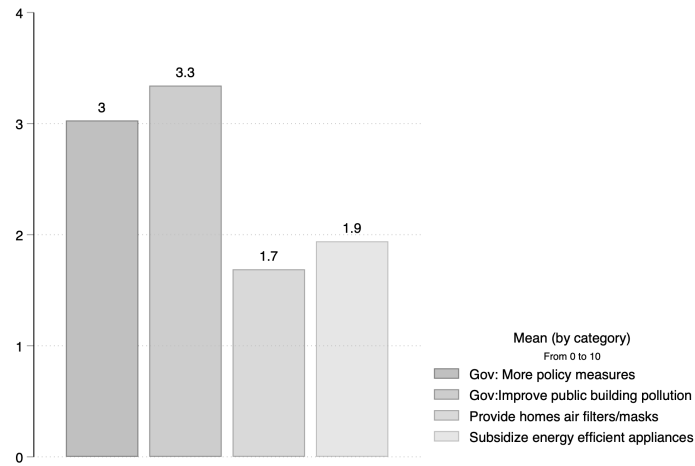
Note: Preference for government retention or distribution to citizens of revenue from fines imposed on polluting firms. This figure shows the average number of units (out of 10 units representing the revenue) that participants allocated to each of the four options (1. the government of the city where the factory is located, 2. the government of the nation, 3. citizens who live near the factory, 4. All the inhabitants of the city where the factory is located) to the following survey question: “If there is a possibility that companies pay a tax for polluting, who do you think should receive that money?”.

**Figure A4: Preference for Public or Private Goods Spending**



Note: Preference for environmental private goods or environmental public goods spending using revenue from fines imposed on polluting firms. Participants allocated 10 units, representing the revenue, to four options (1. To implement control measures and introduce new restrictions to reduce other sources of pollution, 2. to provide households with masks and air filters to reduce the effect of pollution on their daily life, 3. to reduce the effect of pollution in schools and public buildings, for example, by installing air filters, 4. To provide subsidies to households for the purchase of appliances that consume less energy) to the following survey question: “If it were the Government of Mexico City that receive this money, how should this money be used?” This figure shows the distribution of the variable constructed as the sum of the units allocated to options 1 and 3 minus the sum of the units allocated to options 2 and 4.

**Figure A5: Preference for Use of Resources**



Note: Preference for the spending of revenue from fines imposed on polluting firms. This figure shows the average number of units (out of 10 representing the revenue) that participants allocated to each of the four options (1. To implement control measures and introduce new restrictions to reduce other sources of pollution, 2. to provide households with masks and air filters to reduce the effect of pollution on their daily life, 3. to reduce the effect of pollution in schools and public buildings, for example, by installing air filters, 4. To provide subsidies to households for the purchase of appliances that consume less energy) to the following survey question: “If it were the Government of Mexico City that receive this money, how should this money be used?”.

## Appendix A.9 Questionnaire: Trust, Pollution and Policy questions

**Table A12:** Questions - Dependent variables

Variable	Regression code	Original code	Original Survey Question (Spanish)	Translated Survey Question
H10			Si el gobierno se comprometiese a un plan que reduzca la contaminación del aire lo suficiente para evitar todas las contingencias, ¿estaría dispuesto a pagar \$100 por año en impuestos?	If the government commits to a plan that reduces air pollution enough to avoid all environmental emergencies, would you be willing to pay \$ 100 per year in taxes?
	1	1	Sí	Yes
	0	2	No	No
	.	-999	No sabe	Doesn't know
	.	-777	No quiere responder	Doesn't answer
<p><i>En la siguiente sección tendrás algunas opciones entre las cuales debes distribuir 10 unidades de acuerdo a qué tan importante es cada opción. Más unidades significa que esa opción es más importante. Todas las distribuciones son posibles, incluyendo asignar cero unidades a alguna o varias de las opciones presentes.</i></p> <p><i>In the next section you will have some options among which you must distribute 10 units according to how important each option is. More units means that option is more important. All distributions are possible, including assigning zero units to one or more of the options present.</i></p>				
H5			Si fuese el Gobierno de la Ciudad de México quien recibiera ese dinero, ¿cómo se debería utilizar dicho dinero? (Escriba -999 en cada una de las afirmaciones si el encuestado no sabe o no quiere contestar) [Enc. Si no sabe, escriba -999 en TODAS las opciones] [Enc. Debe mostrar la tableta para que el participante vea la escala]	If it were the Government of Mexico City that received this money, how should this money be used?
H5.1		[ ]	Para implementar medidas de control e introducir nuevas restricciones que permitan reducir otras fuentes de contaminación	To implement control measures and introduce new restrictions to reduce other sources of pollution
H5.2		[ ]	Para proveer a los hogares máscaras y filtros de aire que disminuyan el efecto de la contaminación en su vida diaria	To provide households with masks and air filters that reduce the effect of pollution on their daily life
H5.3		[ ]	Para reducir el efecto de la contaminación en escuelas y edificios públicos, por ejemplo, instalando filtros de aire	To reduce the effect of pollution in schools and public buildings, for example, by installing air filters
H5.4		[ ]	Para dar subsidios a los hogares para la compra de electrodomésticos que consuman menos energía	To provide subsidies to households for the purchase of appliances that consume less energy
H4			Si existiera la posibilidad de que las empresas paguen un impuesto por contaminar, ¿quién cree que debería recibir ese dinero? [Enc. Si no sabe, escriba -999 en TODAS las opciones]	If there is a possibility that companies pay a tax for polluting, who do you think should receive that money?
H4.1		[ ]	El Gobierno de la ciudad donde está la fábrica	The Government of the city where the factory is located
H4.2		[ ]	El Gobierno de la Nación	The Government of the Nation
H4.3		[ ]	Los ciudadanos que viven cerca de las fábricas y que son afectados por la contaminación	Citizens who live near factories and who are affected by pollution
H4.4		[ ]	Todos los habitantes de la ciudad donde está la fábrica	All the inhabitants of the city where the factory is located

**Table A13: Questions - Trust variables**

Variable	Regression code	Original code	Original Survey Question (Spanish)	Translated Survey Question
G2			¿Con qué frecuencia se interrumpe el servicio de agua en su hogar?	How often is the water service in your home interrupted?
	5	1	Todos los días	Every day
	4	2	No todos los días, pero más de una vez por semana	Not every day, but more than once a week
	3	3	Una vez por semana	Once a week
	2	4	Menos de una vez por semana	Less than once a week
	1	5	Nunca	Never
	.	-999	No sabe	Doesn't know
	.	-777	No quiere responder	Doesn't answer
G3			¿Cómo diría usted que es la calidad de las calles de su colonia/barrio?	How would you say the quality of the streets in your neighborhood / neighborhood is?
	1	1	Muy buena	Very good
	2	2	Buena	Good
	3	3	Mala	Bad
	4	4	Muy mala	Very bad
	.	-999	No sabe	Doesn't know
	.	-777	No quiere responder	Doesn't answer
G5			¿Podría decirme cuánta confianza tiene en sus vecinos y personas de su barrio?	Could you tell me how much trust you have in your neighbors and people in your neighborhood?
	4	1	Mucho	A lot
	3	2	Algo	Something
	2	3	Un poco	Little
	1	4	Nada	Nothing
	.	-999	No sabe	Doesn't know
	.	-777	No quiere responder	Doesn't answer
G6			¿Cuánta confianza tiene en personas con las que usted se encuentra en la calle?	How much trust do you have in people you meet on the street?
	4	1	Mucho	A lot
	3	2	Algo	Something
	2	3	Un poco	Little
	1	4	Nada	Nothing
	.	-999	No sabe	Doesn't know
	.	-777	No quiere responder	Doesn't answer
G7			¿Cuánta confianza tiene en sus familiares y amigos?	How much trust do you have in your family and friends?
	4	1	Mucho	A lot
	3	2	Algo	Something
	2	3	Un poco	Little
	1	4	Nada	Nothing
	.	-999	No sabe	Doesn't know
	.	-777	No quiere responder	Doesn't answer

**Table A14:** Questions - Trust variables (cont.)

Variable	Regression code	Original code	Original Survey Question (Spanish)	Translated Survey Question
G8			¿En los Partidos Políticos?	In the Political Parties?
	4	1	Mucho	A lot
	3	2	Algo	Something
	2	3	Un poco	Little
	1	4	Nada	Nothing
	.	-999	No sabe	Doesn't know
	.	-777	No quiere responder	Doesn't answer
G9			¿En el Presidente de la Nación?	In the President of the Nation?
	4	1	Mucho	A lot
	3	2	Algo	Something
	2	3	Un poco	Little
	1	4	Nada	Nothing
	.	-999	No sabe	Doesn't know
	.	-777	No quiere responder	Doesn't answer
G10			¿En el Jefe de Gobierno de la Ciudad de México?	In the Head of Government of Mexico City?
	4	1	Mucho	A lot
	3	2	Algo	Something
	2	3	Un poco	Little
	1	4	Nada	Nothing
	.	-999	No sabe	Doesn't know
	.	-777	No quiere responder	Doesn't answer
G11			¿En los medios de comunicación (Periódicos, radio, TV)?	In the media (newspapers, radio, TV)?
	4	1	Mucho	A lot
	3	2	Algo	Something
	2	3	Un poco	Little
	1	4	Nada	Nothing
	.	-999	No sabe	Doesn't know
	.	-777	No quiere responder	Doesn't answer
G12			¿En las organizaciones no gubernamentales (ONG) (por el medio ambiente, por los derechos de grupos de individuos, etc)?	In non-governmental organizations (NGOs) (for the environment, for the rights of groups of individuals, etc.)?
	4	1	Mucho	A lot
	3	2	Algo	Something
	2	3	Un poco	Little
	1	4	Nada	Nothing
	.	-999	No sabe	Doesn't know
	.	-777	No quiere responder	Doesn't answer

**Table A15:** Questions - Policy control variables

Variable	Regression code	Original code	Original Survey Question (Spanish)	Translated Survey Question
			<p><i>Ahora utilizaremos una escala del 1 al 10 donde 1 es nada efectivo y 10 es muy efectivo. La comisión ambiental de la Megalopolis ha establecido restricciones a las fábricas para disminuir inmediatamente los niveles de contaminación cuando se declara la fase 1 de la contingencia. En su opinión...</i></p> <p><i>Comisión ambiental de Megalópolis: es un órgano de coordinación administrativa intergubernamental que tiene como objetivo establecer medidas ambientales entre los estados que la conforman: la Ciudad de México, Hidalgo, Estado de México, Puebla y Tlaxcala.</i></p>	<p><i>Now we will use a scale from 1 to 10 where 1 is not effective and 10 is very effective. The Megalopolis environmental commission has established restrictions on factories to immediately lower pollution levels when phase 1 environmental emergency is declared. In your opinion...</i></p> <p><i>Megalopolis Environmental Commission: it is an intergovernmental administrative coordination body that aims to establish environmental measures among the states that comprise it: Mexico City, Hidalgo, State of Mexico, Puebla and Tlaxcala</i></p>
H1		[ ]	¿En su opinión, ¿qué tan efectivo ha sido este programa en reducir la contaminación? [Enc. Debe mostrar la tableta para que el participante vea la escala]	In your opinion, how effective has this program been in reducing pollution
H2		[ ]	En su opinión, ¿qué tan efectivo es el control que se realiza para medir el cumplimiento por parte de las empresas? [Enc. Debe mostrar la tableta para que el participante vea la escala]	In your opinion, how effective is the control carried out to measure compliance by companies?
H7			En su opinión personal ¿qué tanto énfasis tendría que otorgarle un candidato a un puesto político a los siguientes temas para lograr obtener su voto? [Enc. Si no sabe, escriba -999 en TODAS las opciones] En esta sección deberá distribuir 10 unidades entre las distintas opciones según cuán importante considera cada una. Más unidades significa que la opción es más importante. Todas las distribuciones son posibles, incluyendo la asignación de cero unidades a una o más de las opciones.	In your personal opinion, how much emphasis would a candidate for political office have to place on the following issues to get your vote? In the next section you will have some options among which you must distribute 10 units according to how important each option is. More units means that option is more important. All distributions are possible, including assigning zero units to one or more of the options present.
H7.1		[ ]	Crecimiento económico	Economic growth
H7.2		[ ]	Calidad ambiental	Environmental quality
H7.1		[ ]	Reforzar el cumplimiento de las leyes	Law enforcement