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ABSTRACT

Information, Belief Elicitation and Threshold Effects in the 5X1000 Tax Scheme: A Framed Field Experiment*

In this paper we study by means of a framed field experiment on a representative sample of the population the effect on people's charitable giving of three, substantial and procedural, elements: information provision, belief elicitation and threshold on distribution. We frame this investigation within the 5X1000 tax scheme, a mechanism through which Italian taxpayers may choose to give a small proportion (0.5%) of their income tax to a voluntary organization to fund its activities. We find two main results: a social information effect, since information on total donations received by the organizations in the previous year significantly increases the share of donors, and a distributional effect, leading, the information provision, to a significant increase in the share of donors to the organization reporting the lowest aggregate donations.

JEL Classification: C91, D64, H00

Keywords: charitable-giving, framed field experiment, social information effect, 5X1000

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1. Introduction

In times of tightened government budget constraints in high-income countries the subsidiary role of not-for-profit organizations in the provision of public goods and services is becoming of paramount importance. The supply of such goods and services crucially depends on the organization's capacity of raising funds and stimulate individuals' willingness to give. It therefore becomes increasingly relevant to understand better how different funding schemes may work and which factors may affect people's willingness to give. Economists have traditionally focused their attention on the effect of changes in 'price' on giving responses. To identify the effect of 'price' changes on donations and the associated elasticity of giving is especially important from the policy makers' perspective. Since, in fact, charitable giving favors the production of public goods that the public sector might want to encourage, donations can subsidize it by, for instance, tax deductibility, as it happens in many fiscal systems around the world. In the U.S., for this reason, the price of charitable giving is inversely related to the marginal tax rate; that implies that those with higher incomes get higher marginal subsidies. In the U.K. a similar logic applies to the payroll giving (Give as You Earn). In this system donations are removed before income tax is calculated and deducted. The consequence is that tax is calculated on a lower amount and the deduction may lower the amount of tax to pay also by changing individual's tax bracket.

There are fiscal systems even more generous, where the tax deductibility appears in extreme forms. The Italian 5X1000 (five by thousand), introduced in 2006, for instance, permits the taxpayers to donate each year to their preferred organization a share equal to the five per thousand of their personal income tax. In this way, the State finances the not-for-profit sector forgoing a certain amount of tax revenues and delegating to the taxpayer the control on how to

allocate this public fund among the different organizations. This represents an extreme form of ‘price’ reduction with the actual price set equal to 0.

The efficacy of these systems in stimulating private funding depends on how tax-payers and other potential donors respond to the formal, informal and social incentives they provide. In this respect, one such element that both economists and psychologists have recently focused on is social information: how information about other people’s contributions, affect individuals’ willingness to fund charities and public goods more in general¹. In general, we may think of two types of influences of social information: a “substitution effect” and a “complementarity effect”. The former is consistent with models of *altruistic behavior* (Becker, 1974; Warr, 1982; Roberts, 1984; Andreoni, 1988 and 1990): the more other people (or institutions) give, the less the individual is motivated to contribute. The second effect is implied by models of *reciprocity* (Sugden, 1984), *conformity* (Bernheim, 1994), *signalling* (Vesterlund, 2003) *social image* (Benabou and Tirole, 2006; Andreoni and Bernheim, 2007; Ellingsen and Johannesson, 2007, 2008), and *social connection* (Scharf, 2014). They all predict that knowing people are giving stimulates other people’s donations.

Empirical evidence has been, so far, largely inconclusive, providing support to both effects: Andreoni (2006), Powell and Steinberg (2006) and Kolm and Ythier (2006) review a number of empirical studies concluding that, apart from complete crowding-out, none of the other predictions (complementarity or substitutability) can be disconfirmed. Data from lab experiments (see Shang and Croson, 2009 for a survey) are generally supportive of the positive effect of social information but the robustness of these results has been variously criticized, mainly because of weaknesses in the experimental designs and on the questionable external

¹ See Andreoni (2006) and Vesterlund (2006) for economics-oriented reviews and Cialdini and Goldstein (2004), Penner et al. (2005), Weber et al. (2004) for reviews about contributions from psychology.

validity of their conclusions. Few studies have tried to overcome such criticisms by adopting more convincing treatment manipulations and considering non-conventional subject pools. In one of these, Frey and Meier (2004) conduct a natural field experiment with all the students of the University of Zurich. They collect data supporting the complementarity prediction, as they find that, on average, people contribute more often to a charity if they know that many others contribute. While this study is focused on the willingness to contribute or not, to a public good, Shang and Croson (2009) examine the effect that information about the amount of others' donation may have on the amount of participants' contribution. This study is fielded in the context of a fund-raising campaign for a public radio and finds a positive and significant relation between social information and the amount given.

We contribute to this growing literature by focusing on the effect of three, substantial and procedural, elements: social information, belief elicitation and the imposition of an exogenous threshold on total contribution. We study both the impact of these elements on individuals' willingness to donate and, more importantly, how they affect the distribution of donations among a set of different organizations. We investigate these elements by means of a framed field experiment involving a representative pool of the population. We frame the experiment considering the '5X1000 tax scheme', a mechanism through which Italian taxpayers may choose to give a small proportion of their income tax to a voluntary organization to fund its activities. The design and the hypotheses of our experiment are motivated, as we said, by an interest for the role of information in charitable giving and its policy implications, but also by the heated debate among policy-makers and practitioners fueled by different positions about the role of public-social information, which is accompanying in these years, the experimentation of the 5X1000 mechanism and the discussion about the pros and cons of its implementation.

In its basic form this mechanism allows taxpayers to divert, each year, a small share (equal to the five per thousand) of their personal income tax from the State to one among not-for-profit organizations active in the production of public goods². Through this channel, the State finances the no-profit sector forgoing a certain amount of tax revenues and delegating to the taxpayer the control on how to allocate this portion of public funds among the different organizations and their preferential ends.

In the recent years, however, the implementation of the 5X1000 mechanism has been criticized on two main points: first, the neglect of the role of information about each organization's funding results. Data about how much each of them received in the previous years, in fact, has not been made available on a regular basis. Many argue that knowing this data is crucial to a well-informed choice and that they may have important consequences on the allocation of funds. First, they may impact on the decision to donate. Secondly, if we assume that people not only care about the total amount distributed to the organizations but also about how these funds are allocated among the organizations, knowledge about the previous allocations of funds may lead taxpayers to choose to redistribute from the top organizations to the bottom, if they like pluralism and diversity or they aim at maximizing the impact of their single donations. On the contrary, one may hypothesize that the same information, may, on the contrary, induce people to give more to the top organizations. In fact, if donors interpret giving from other taxpayers as signal of quality, for instance, they may want to reward and make even stronger the best performing organizations.

² More specifically are eligible to receive donations all the voluntary organizations and other foundations and organizations (public or private) operating in the fields of scientific research, higher education, public health (including non-professional sport associations), cultural promotion and environmental protection, that ask to be included in an official list maintained by the tax authority.

The second reason of debate refers to the decision by the Ministry of Finance to impose an upper limit to the total amount to be actually distributed. In other words, each year the Ministry of Finance, establish the maximum amount to be distributed, irrespectively of the actual amount gathered from taxpayers' choices. If total donations exceed the threshold set for a given year, only a fraction of each donation will be distributed, to a sum equal to the fixed threshold.

A third issue that we focus on refers to the role of donors' prior beliefs. Social psychologists documented that being asked to explicitly stating one's beliefs may, in different context, affect subject's choices who, in an attempt to achieve consistency may modify their intended behavior (Cialdini, 1984). Economists have both theoretically and experimentally studied this 'taste for consistency' and found that is a powerful determinant of behavior (Yariv, 2005; Johansson-Stenman and Svedsater 2008; Falk and Zimmerman, 2013). We study this 'belief elicitation effect' and its consequences on giving. More specifically we test whether simply asking to formulate beliefs about how each organization ranked in terms of aggregate donations produces significant changes in donors' behavior. We also estimate whether participants' beliefs are systematically biased. Such bias in fact, may lead to a change in giving behavior when information about the real figures are provided.

We find six main results with respect both to the probability to give and to the donations' distribution. First, when information about the previous year's aggregate donations received by each organization is provided, the probability to donate becomes significantly higher (from 90 to 96 percent) with respect to when information is not available. Second, we find that the belief elicitation procedure (making the ranking salient) increases significantly the probability to donate as well (from 90 to 97 percent). Third, the imposition of the threshold to the amount to be distributed decreases significantly the relative probability to donate of about 5 percentage

points. The fourth finding refers to the distributive effect of the information provision. When the amount of funds received by each organization in the previous year is made known, we observe a statistically significant redistribution from the top organizations toward those at the bottom. Fifth, although participants' beliefs are systematically inaccurate, the elicitation process leads to a statistically significant increase in the contribution to the best performing organizations. Finally, we find that the imposition of the threshold up to the beliefs elicitation does not have any significant redistributive effects.

The remainder of the paper proceeds as follows. The next section describes the experimental design, the hypotheses and the procedures. Section 3 summarizes our findings. Section 4 concludes.

2. The Experiment

2.1. Design

Our framed field experiment is designed to investigate the effect of information disclosure, beliefs elicitation and the imposition of an exogenous threshold on charitable giving in a large and representative sample of the population. The baseline experimental task is a modified version of the 'generosity game' (Güth, 2010; Güth et al., 2012) in which all the experimental subjects play the role of the dictator, while the recipient is a real not-for-profit organization. Each dictator receives a lottery ticket and has to decide whether and to whom to donate (by selecting one organization from a list of nine provided by the experimenters³) the monetary

³ The list of organizations eligible for the *5X1000* contribution includes about 50 thousand entries (year 2016). We considered a selection of the most well-known among those that operate nationwide. We tried to diversify both in terms of total amount received and mission of the organization. We included, in alphabetical order: *ADMO* – Bone Marrow Donors Association, *Amnesty International* (Italian Section), *Caritas*, *Emergency*, *Fondazione Banco*

prize (1000 euros) in the event of winning the lottery (see section 2.3 for more details). The dictator can as well decide not to donate but, in that case, the share of the pie going to the dictator is set equal to 0. We consider this game instead of the more common dictator game, in order to mimic as close as possible the real decision faced by the taxpayers in the ‘5X1000’ mechanism. Not giving, in fact, does not increase the taxpayer wealth. If they opt not to give through the 5X1000 mechanism, the entire amount of their taxes will be retained by the State. In standard lab experiments participants usually receive a monetary endowment at the beginning of the experiment like “manna from heavens”; this introduces an element of unrealism that has been repeatedly criticized. In our design, on the contrary, reality and the simulated situation are much more closely related since both taxpayers and participants decide to donate “out of pocket” money that in any case would not go back to them in case of decision not to donate. This close resemblance between experimental procedure and real-life choice increases the external validity of our design.

The game is played in a between-subject design, in four different treatments (Table 1). In the first, “No Information Treatment” (*NoInfoT*), subjects play the baseline game with no additional information (see Appendix A for the instructions). In the second, “Information Treatment” (*InfoT*), players are given information about the donations received by each of the nine organizations in the previous fiscal year through the 5X1000 mechanism. In the third, “No Information plus Belief Elicitation Treatment” (*BeliefT*), players have no information but they are asked to rank the organizations according to their beliefs about the amount of donations received in the previous year through the 5X1000 mechanism. Beliefs are elicited at the same moment the donation choice is done as it is clear from the attached questionnaire where beliefs

Alimentare Onlus, Greenpeace, L.A.V. Lega Anti-vivisezione, UNICEF (Italian Section) and WWF - World Wildlife Foundation Italy. For a detailed description of the organizations see the Online Supplementary Material.

and donations choices appear as right and left columns of the same line (Appendix A). Beliefs are not incentivized. In the fourth, “No Information plus Belief Elicitation and Threshold Treatment” (*Belief&ThresholdT*), players are not given information, are asked their beliefs and their choices are subject to a threshold. More specifically participants are told that, if the aggregate amount of contributions donated to all the organizations passes a maximum, unspecified, amount, each organization will receive only a percent of the amount actually donated to it. This feature of our design is aimed at reproducing the actual threshold mechanism existing in the Italian 5X1000 donation system where, if total donations exceed the threshold imposed each year by the Ministry of Finance, only a proportional fraction of each donation is actually distributed, up to a sum equal to the maximum fixed amount. In the experiment the threshold is unspecified because in the real system, the total amount to be distributed each year is decided by the Ministry of Finance *ex-post*, after taxpayer have already taken the decision whether to give or not.

TABLE 1 ABOUT HERE

We implemented an incentive system similar to that used by Fong and Luttmer (2011) and Pelligra and Stanca (2013) which is particularly suited for experiments with large sample of subjects. We gave to each respondent a lottery ticket. Once all the choices were collected, one of the tickets was randomly drawn and the choices that the owner of that ticket made determined both the actual payments (1000 euros or nothing) and eventually the recipient (the selected organization). The participant, as well as the organization, were then contacted by *SmartLab*,

the market research firm that fielded the research⁴, and informed about the result of the lottery and, in the case of the organization, paid by bank transfer. We ensured anonymity using a system of unique codes to identify the donors whose identity remained unknown to the experimenters. The participants do not know the total number of the interviewees, therefore they cannot infer the probability of being selected to be paid for real. The different stages of the lottery were filmed and made available to all participants upon request. In the context of our experiment, this two-stage procedure was easier to implement than the usual one-stage random lottery incentive system, while ensuring, we think, the necessary salience.

2.2. Hypotheses

From our design we can infer a series of testable hypotheses. First, let $S(g)_T$ denote the share of players who give, and $S(ng)_T$ the share of players who decide not to give in treatment $T = \{InfoT, NoInfoT, BeliefT, Belief\&ThresholdT\}$; similarly let G_{jT} the total amount of donations received by the organization j in treatment T .

The hypotheses we test refer to the effect of the information disclosure, the beliefs elicitation and the introduction of the threshold both on the probability of giving (hypotheses *a*) and on the distribution of the donations (hypotheses *b*).

<i>Hypothesis 1a</i>	<i>Hypothesis 1b</i>
<i>(information effect on probability of giving):</i>	<i>(information effect on the distribution):</i>
$H_0: S_{(NoInfoT)} = S_{(InfoT)}$	$H_0: G_{j(NoInfoT)} = G_{j(InfoT)}$
$H_A: S_{(NoInfoT)} \neq S_{(InfoT)}$	$H_A: G_{j(NoInfoT)} \neq G_{j(InfoT)}$

⁴ www.smartlabkaralis.it. The research was funded by CSV-Sardegna Solidale (www.sardegناسolidale.it).

The goal of these hypotheses is to investigate the effect on charitable behavior of the information about the total amount of funds raised by each organization in the previous year. To this end we compare the share of givers and their preferred organizations in the “Information” and in the “No information” treatments. Under the null hypothesis the information has no effects.

<p><i>Hypothesis 2a</i></p> <p><i>(belief effect on probability of giving):</i></p> <p>$H_0: S_{(NoInfoT)} = S_j (BeliefT)$</p> <p>$H_A: S_{(NoInfoT)} \neq S_j (BeliefT)$</p>	<p><i>Hypothesis 2b</i></p> <p><i>(belief effect on the distribution):</i></p> <p>$H_0: G_{j(NoInfoT)} = G_j (BeliefT)$</p> <p>$H_A: G_{j(NoInfoT)} \neq G_j (BeliefT)$</p>
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The goal of these hypotheses is to test the effect on charitable behavior and its distribution of the elicitation of prior beliefs about the donations received. Under the null hypothesis prior beliefs have no effects.

<p><i>Hypothesis 3a</i></p> <p><i>(threshold effect on probability of giving):</i></p> <p>$H_0: S_{(BeliefT)} = S_j (Belief\&ThresholdT)$</p> <p>$H_A: S_{(BeliefT)} \neq S_j (Belief\&ThresholdT)$</p>	<p><i>Hypothesis 3b</i></p> <p><i>(threshold effect on the distribution):</i></p> <p>$H_0: G_{j(BeliefT)} = G_j (Belief\&ThresholdT)$</p> <p>$H_A: G_{j(BeliefT)} \neq G_j (Belief\&ThresholdT)$</p>
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With this hypothesis we test whether imposing a threshold on the actual distribution of the total donations given by the contributors affects the probability to donate. Under the null hypothesis the threshold has no effects.

2.3. Procedures

The experiment was conducted in August-September 2013 using a representative sample of 2000 adults stratified by gender, age and education. Subjects responded to a questionnaire carried out in Sardinia, an autonomous region of Italy, using the PAPI (Paper-and-Pencil Interviewing) technique. In addition to a series of questions on socio-demographic characteristics, values, beliefs, and pro-social activities, we included the choice task described in the previous section⁵.

Participants are contacted by the interviewers at home and invited to participate in a simple experimental study conducted by the University of Cagliari. They receive a self-explaining anonymous questionnaire that is completed autonomously without any intervention from the interviewer. After answering questions about socio-demographic characteristics, each participant is informed about the rules of the choice task, the consequences of her choices and the functioning of incentive system. They are then presented with the task and their understanding of the game is checked by a series of control questions. After completing the choice task, they answer the remaining sections of the survey. Completing the entire questionnaire takes on average about 20 minutes.

The main benefits of using a representative sample of the population (see Table 2 for the sample structure), instead of the usual convenience pool of student subjects, are relative to the sample size and to the heterogeneity and representativeness of subjects whose choices are observed. These factors have obvious pros in terms of a finer understanding of the mechanism underlying decision-making, since we have a larger number of socio-demographic determinants to which

⁵ The instructions and are provided in the Appendix and the questionnaire is available in the Online Supplementary Materials.

we can relate variations in behavior, but also in terms of external validity and generalizability of the experimental results.

TABLE 2 ABOUT HERE

Once all the questionnaires were collected we run the lottery that determined the organization to be paid. At this stage both the chosen participant and the organization were informed of the result.

3. Results.

We contacted 2000 subjects and about 75% of them consented to participate in the study. Overall, we obtained 1405 complete questionnaires, 214 questionnaires have been dropped because in the two treatments featured by beliefs elicitation, beliefs were incomplete or inconsistent. This brings the sample to 1191 observations (Table 3).

TABLE 3 ABOUT HERE

Descriptive findings document that our sample is almost perfectly balanced in terms of gender (53 percent females), with average age being 45. Respondents live in households with 2.2 components on average and around 46 percent of them are married. Non-donors⁶ are 6 percent in the overall sample. This share remains very low also if we look at it in the four different

⁶ We call for simplicity non-donors those who choose not to donate to any of the listed organizations.

treatments (highest at 9.7 percent in the *NoInfoT* and lowest at 2.8 percent in the *BeliefT*) (see Table 4).

TABLE 4 ABOUT HERE

3.1. Treatments effect on the probability to donate.

Figure 1 depict the empirical distribution of donation across the nine organizations. The first outcome of interest is represented by the effect of the different treatments on the probability to generate an actual donation (hypotheses 1a, 2a and 3a).

Table 5 (model 1)⁷ displays estimations based on an intuitive OLS Linear-Probability-Model in which the outcome dummy variable Donation (1= donation, 0=non-donation) is regressed on treatment dummies *InfoT*, *BeliefT*, *Belief&ThresholdT*. The baseline treatment *NoInfoT* is omitted for collinearity reasons and it is captured in the constant term. The average donation rate under the baseline treatment is 90%. *InfoT* has a positive and significant effect on the probability to donate increasing it by 7 percentage points (in relative terms, the propensity to donate increases by 8%). *BeliefT* has a positive and significant effect on the probability to make the donation increasing it by 6 percentage points (in relative terms, the pool of donors increased by 7%). *Belief&ThresholdT* combines together beliefs elicitation (Belief) and a threshold rule (Threshold). The coefficient for this treatment is very small and not statistically significant at any conventional level. This means that the introduction of a threshold rule brings a relative

⁷ Model 2 in Table 1 replicates the very same findings of Model 1, controlling for further demographics such as age, gender and education level.

significant, negative and sizable (-5 percentage points) effect in terms of propensity to donate since it neutralizes the positive and significant effect generated by *BeliefT*.

TABLE 5 AND FIGURE 1 ABOUT HERE

3.2. Information effect (NoInfot vs InfoT)

Providing information about past donations leads to a polarization of the donations in favor of (2 out of 3) the less endowed charities (Table 6 and Figure 2). The qualitative polarization of the categorical distribution of recipients, is statistically significant according to Person X^2 test (p -value<0.001 | tag: a).⁸ The non-parametric test rejects the null hypothesis of independence between experimental conditions and allocation of the donations to the different recipients.

TABLE 6 AND FIGURE 2 ABOUT HERE

This result is even more clear-cut if the different charities are clustered according to the volume of funding actually rose during the previous 5x1000 wave (Table 14 and Figure 1). Cluster A groups together the two major charities / outliers (Emergency and Unicef) that are able to attract a great volume of donations (>5 millions euros, each). Cluster B hosts organizations able to raise about € 1 million each (LAV, WWF Greenpeace,Amnesty). Cluster C represents the three

⁸ All significant (p -value<0.01) non-parametric tests are jointly significant at the 5% level according based on Bonferroni-Holm stepwise multiple-hypotheses-testing procedure (Holm 1979). See Table 13 for the criterion cut-off p -values.

less endowed organizations (Caritas, Banco Alimentare, ADMO) collecting less than 200,000 euros each. Providing information leads donors to act systematically more in favor (with respect to the no information treatment) of the less endowed charities of cluster C.

The previous result is confirmed also in this alternative clustered setting (see Table 7 and Figure 3). The categorical distribution of recipients under *InfoT* is contrasted against the *NoInfoT* distribution. Donations density moves from cluster A (-5 percentage points) and B (-11 percentage points) in favor of cluster C's charities (+ 16 percentage points). This qualitative polarization of the donation behavior results to be highly statistically significant according to Person X^2 test (p -value<0.001 | tag: b).

TABLE 7 AND FIGURE 3 ABOUT HERE

3.3. The beliefs effect (NoInfoT vs BeliefT)

In the *BeliefT* treatment we ask participant to rank the organizations in terms of how much they believe each organization received the previous year. We do this to verify the effect of priming a comparative decision rule in the participants that could lead them, not only to focus on their preferred organization but also to think in terms of global distribution of funds. Besides we are also interested in studying whether beliefs are generally aligned with actual donations or systematically biased. This latter case, in fact, could explain any changes due to the provision of information.

We find that the belief elicitation procedure leads to a bipolarization of the donations with respect to the *NoInfoT* baseline case (Table 8).

The bipolar U-shaped categorical distribution of recipients resulted by the introduction of the beliefs condition is statistically different from the distribution generated under the *NoInfoT* according to Person X^2 test (p -value=0.003 | tag: c). The non-parametric test rejects the null

hypothesis of independence between experimental conditions and donation allocations to the different recipients.

TABLE 8 AND FIGURE 4 ABOUT HERE

Also in this case, the analysis at cluster level helps to better highlight the underlying dynamic (Table 9 and Figure 5). Visual inspection of Figure 5 suggests how the U-shaping effect is mainly driven by an increase of donations in favor of better endowed charities belonging to cluster A (+ 10 percentage points) and a correspondent decrease of donations to the less endowed ones of cluster B (-8 percentage points) and C (-2 percentage points). As for the previous test, also in this further clustered configuration the Person X^2 test rejects (p -value=0.008 | tag: d) the null hypothesis of independence between experimental conditions and donation allocations to the clustered recipients.

TABLE 9 AND FIGURE 5 ABOUT HERE

3.3.1 Accuracy of beliefs and “beliefs-donation” correlation.

The degree of accuracy of the beliefs is very low: only the 0.5% of the pool of subjects reported a ranking in line with the actual one; 2.4% of the subjects ranked correctly the top three organizations; the 2.6% ranked correctly the three organization in the middle range of the list (ranks 4, 5 and 6); the 4.7% correctly identified three organizations at the bottom of the list. Subjects tend to donate to the organization they rank first. This correlation (Table 10) is robust and statistically highly significant (Spearman correlation: +0.39, p -value<0.001).

TABLE 10 ABOUT HERE

Symmetrically, subjects tend to systematically avoid donations in favor of the charities they assign the lowest rank (Spearman correlation: -0.18 , $p\text{-value} < 0.001$). This “beliefs effect” goes in the opposite direction with respect to the “information effect”. While under information subjects tended to favor the less endowed organizations, under the beliefs treatment subjects granted generosity to the organizations that in their opinion are able to attract more donations.

3.4. Threshold effect (*BeliefT* vs *Belief&ThresholdT*).

From the distributional perspective, the effect of the threshold rule does not imply major effects. The categorical distribution of donations generated by *Belief&ThresholdT* (Table 11 and Figure 6) is statistically indistinguishable compared the one realized under *BeliefT* according to Person X^2 test ($p\text{-value} > 0.3$ | tag: e).

TABLE 11 AND FIGURE 6 ABOUT HERE

The same result holds true when the clustered categorization is considered. Visual inspection of Figure 7 (see also Table 12) confirms how the two clustered categorical distributions display analogous patterns of donations by treatments (cluster A $\approx 35\%$; cluster B $\approx 16.5\%$; cluster C $\approx 48.5\%$). The Person X^2 test fails to reject ($p\text{-value} > 0.7$ | tag: f) the null hypothesis of independence between experimental conditions and donation allocations to the clustered recipients.

TABLE 12 AND FIGURE 7 ABOUT HERE

4. Conclusions.

In this paper, we report on a framed field experiment designed to study the effect, on people's charitable giving, of three, substantial and procedural, elements: information provision, belief elicitation and threshold on distribution. The study is framed within the 5X1000 tax scheme, a mechanism actually available to Italian taxpayers, which allows them to allocate a small part of their taxes to a selected not-for-profit organization. The Italian law allows only a single choice option since it is not possible to allocate the amount to more than one organization. We replicate the scheme by asking to a representative sample of the population to allocate a monetary prize to one among a list of well-known not-for-profit organizations. In order to mimic the tax donation scheme where there is no gain for the taxpayer in case of no choice, we consider a variant of the generosity game where the prize is not earned by the dictator in case she chooses not to donate. Based on these characteristics, our experimental design allows us to test three treatment variables associated with three different potential effects by: i) providing information on the aggregate amount of donations received through the 5X1000 channel by the listed organizations in the past year; ii) eliciting participants' beliefs on the organization rank in terms of donations received in the past year; iii) creating an upward bound on aggregate donations which imposes a proportional cut to contributions to each organization in case the aggregate threshold is passed (as it is in the actual 5X1000 mechanism).

We find two main sets of results: first on how information, beliefs elicitation and threshold affect the likelihood of giving. In this respect, the information effect on the willingness to donate is consistent with what we define the "complementarity effect". Knowing, in fact, how much others have donated in the recent past, the probability to donate increases significantly (7

percentage points). A similar effect is observed when, before choosing, players are asked to manifest their beliefs about how each organization rank in terms of previous donations. Priming this comparative frame drives people to give more (6 percentage points). A negative effect is, instead, associated to the imposition of a threshold to the maximum amount to be distributed. The threshold effect reduces relative participants' willingness to give of about 5 percentage points.

The second class of findings refer to the distributive effects. What is the impact of the treatment variables on the distribution of the donations? These are, we think, our main and more novel findings. If we consider donations that can alternatively target different organizations we see that both information provision and belief elicitation exert a significant distributive effect: with respect with the baseline no-information treatment, when information is provided, participants tend to significantly lower their contributions to the top organizations and to be more generous with those at the bottom of the ranking. On the contrary, when beliefs are made salient the elicitation process leads to a statistically significant modification in the distribution. When asked to explicitly rank the organizations according to their beliefs about previous funding participants give systematically to the organization they think is the best performer. Globally, this process leads to a distribution where the top performing organizations receive more and the worst performing organization slightly less. Finally, we find that the imposition of the threshold does not have any significant redistributive effects.

Objective information, seems to work against people's expressed beliefs. In the first case, in fact, participant prefer to donate to the poorer organizations: it could be to maximize the marginal impact of their money or to foster pluralism and finance different forms of intervention. Disentangling the reasons behind such a behavior will be a subject for further research. We know, however, that when individual's beliefs are made salient, these lead

participants to concentrate their donation towards the best performers (with only two exceptions, *Caritas* and *ADMO*). We may speculate that the belief-elicitation process could prime in the participants a comparative / competitive frame that tends to induce the participant to donate more frequently to the organization they rank first, producing, in this way, a sort of “St. Matthew effect”⁹ (Merton, 1968; Salganik et al., 2006) which consists in giving more to those who have already received a lot and less to the poorer organizations. The same process may be at work also in *NoInfoT*. People give more to the organizations that received less, but since beliefs are systematically inaccurate, the organizations that receive more in *NoInfoT* may well be those which ranked first according to participants’ belief. With our data, we cannot control for that because we elicited beliefs in a no-information setting. However, this argument stresses the fact that the two seemingly inconsistent results, giving less with information and more to the top organizations with belief-elicitation, are not necessarily against each other.

In concluding we think that these findings, especially those related to the distributional effect, are novel and may have important policy implications, both in general and more specifically in the context of the 5X1000 mechanism. The introduction of a threshold for the total amount to be distributed, for example, if on the one hand reduces the State’s expenditure, at the same time, could crowd-out private donations, leading to an under-financing of the no-profit sector. Secondly, if one, instead, wants to encourage donations and foster pluralism, the social information effect could be an effective tool of behavior change, both at the public level and also for each organization. Especially the poorer ones may want to communicate to the prospective donors the funds collected by their richer competitors in the past. This could, in fact, favor redistribution to their advantage.

⁹ “For unto every one that [*we believe*] hath shall be given, and he shall have abundance: but from him that [*we believe*] hath not shall be taken even that which he hath” (Matthew 25:29, King James Version).

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Tables and figures

Table 1. Experimental design: treatments and comparisons.

Treatment	Treatment Variable	Comparisons (Effect)
NoInfoT	No-information	Control Group
InfoT	Information	InfoT vs NoInfoT (Information effect)
BeliefT	No-information + Beliefs Elicitation	BeliefT vs NoInfoT (Belief effect)
Belief&ThresholdT	No-information + Beliefs Elicitation + Threshold	Belief&ThresholdT vs BeliefT (Threshold effect)

Table 2. Sample structure.

	Survey Sample	Survey Population	Italian Population
<i>Age</i>			
15-29	23.56%	15.80%	15.60%
30-44	26.90%	22.60%	22.20%
45-59	23.27%	22.60%	21.30%
60 and above	26.26%	26.70%	27.10%
<i>Gender</i>			
Male	46.90%	49.00%	48.60%
Female	53.10%	51.00%	51.40%

Source: ISTAT. □ Notes: columns 2–4 refer to the survey sample, Sardinia (survey population) and Italy, respectively.

Table 3. Completed questionnaires, gender and choices (by Treatment)

Treatment	Subjects approached	Compliers	Male	Female	No Donation	Donation
NoInfoT	388	388	175 (45%)	213 (55%)	38 (9.7%)	350 (90.2%)
InfoT	405	405	180 (44.5%)	225 (55.5%)	15 (3.7%)	390 (96.3%)
BeliefT	346	250	118 (47.4%)	131 (52.6%)	7 (2.8%)	243 (97.2%)
Belief&ThresholdT	266	148	82 (55.4%)	66 (44.6%)	13 (8.8%)	135 (91.2%)
		1191				

Table 4. Descriptive statistics

Variable	Definition	Obs	Mean	Std.	Min	Max
Emergency	<i>Percent</i>	1191	0.144	0.351	0	1
Unicef	<i>of</i>	1191	0.107	0.309	0	1
LAV	<i>donors selecting the</i>	1191	0.049	0.215	0	1
WWF	<i>organization</i>	1191	0.037	0.188	0	1
Greenpeace	<i>in the</i>	1191	0.023	0.152	0	1
Amnesty	<i>tax donation choice</i>	1191	0.044	0.204	0	1
Caritas		1191	0.236	0.425	0	1
Banco		1191	0.082	0.275	0	1
ADMO		1191	0.217	0.412	0	1
Non-donors		1191	0.061	0.239	0	1
Emergency(rank)	<i>Expected</i>	398	4.007	2.820	1	9
Unicef(rank)	<i>rank in terms of</i>	398	3.907	2.516	1	9
Lav(rank)	<i>aggregate donations</i>	398	6.439	2.184	1	9
Wwf(rank)	<i>previous year</i>	398	5.608	2.158	1	9
Greenpeace(rank)		398	5.638	2.243	1	9
Amnesty(rank)		398	4.927	2.131	1	9
Caritas(rank)		398	3.716	2.498	1	9
Banco(rank)		398	5.389	2.446	1	9
ADMO(rank)		398	5.319	2.755	1	9
<i>demographics</i>						
Gender	<i>Female=1</i>	1191	0.531	0.499	0	1
Age		1191	44.569	17.703	14	93
Education: middle school		1188	0.27	-share	0	1
Education: high school		1188	0.64	-share	0	1
Education: college level		1188	0.08	-share	0	1
<i>Marital status</i>						
Married		1191	0.436	0.496	0	1
Divorced/Separated		1191	0.07	0.250	0	1
Widowed		1191	0.06	0.227	0	1
Ncomp	<i>Number of household members</i>	1191	2.206	1.607	1	11

Table 5. OLS Linear-Probability-Model estimation

VARIABLES	(1) Donation	(2) Donation
InfoT	0.0699*** (0.0193)	0.0750*** (0.0192)
BeliefT	0.0609*** (0.0169)	0.0601*** (0.0169)
Belief&ThresholdT	0.0101 (0.0230)	0.0175 (0.0230)
Age_cent		0.000340 (0.000446)
Edu: High School		0.0586*** (0.0161)
Edu: College		0.0546** (0.0257)
Female		0.0186 (0.0138)
Married		0.0466*** (0.0156)
Constant	0.902*** (0.0121)	0.849*** (0.0167)
Observations	1,191	1,188
R-squared	0.017	0.039

Dependent variable: Donation (dummy: 1 = donation, 0 = no donation).

Standard errors in parentheses. *** p<0.01, ** p<0.05, * p<0.1.

Age_cent=IndividualAge-AverageAge

Table 6. Donations' distribution (by information)

	Emergency	Unicef	LAV	WWF	Greenpeace	Amnesty	Caritas	Banco Alim.	ADMO	
NoInfoT	12.3%	12.9%	6.6%	7.1%	3.1%	5.7%	23.7%	13.7%	14.9%	
	(43)	(45)	(23)	(25)	(11)	(20)	(83)	(48)	(52)	(#350)
InfoT	13.1%	6.9%	4.1%	0.8%	1.8%	4.4%	27.7%	6.9%	34.4%	
	(51)	(27)	(16)	(3)	(7)	(17)	(108)	(27)	(134)	(#390)

Table 7. Donations' distribution clustered (by information)

	Cluster A	Cluster B	Cluster C	
NoInfoT	25.1%	22.6%	52.3%	
	(88)	(79)	(183)	(#350)
InfoT	20%	11%	69%	
	(78)	(43)	(269)	(#390)

Table 8. Donations' distribution (by Belief elicitation)

	Emergency	Unicef	LAV	WWF	Greenpeace	Amnesty	Caritas	Banco Alim.	ADMO	
NoInfoT	12.3%	12.9%	6.6%	7.1%	3.1%	5.7%	23.7%	13.7%	14.9%	
	(43)	(45)	(23)	(25)	(11)	(20)	(83)	(48)	(52)	(#350)
BeliefsT	20.2%	15.2%	4.5%	3.7%	2.9%	3.7%	20.6%	6.6%	22.6%	
	(49)	(37)	(11)	(9)	(7)	(9)	(50)	(16)	(55)	(#243)

Table 9. Donations' distribution clustered (by Belief elicitation)

	Cluster A	Cluster B	Cluster C	
NoInfoT	25.1%	22.6%	52.3%	
	(88)	(79)	(183)	(#350)
BeliefsT	35.4%	14.8%	49.8%	
	(89)	(36)	(121)	(#243)

Table 10. “Beliefs – Donation” correlation

	Spearman correlation	<i>p-values</i>
Organization_donation – rank1	+0.39	<0.001
Organization_donation – rank2	+0.09	=0.099
Organization_donation – rank3	+0.05	>0.3
Organization_donation – rank4	-0.01	>0.8
Organization_donation – rank5	-0.1	=0.062
Organization_donation – rank6	-0.13	=0.01
Organization_donation – rank7	-0.06	>0.2
Organization_donation – rank8	-0.14	=0.007
Organization_donation – rank9	-0.18	<0.001

Table 11. Donations' distribution (by Threshold)

	Emergency	Unicef	LAV	WWF	Greenpeace	Amnesty	Caritas	Banco Alim.	ADMIO	
BeliefsT	20.2%	15.2%	4.5%	3.7%	2.9%	3.7%	20.6%	6.6%	22.6%	
	(49)	(37)	(11)	(9)	(7)	(9)	(50)	(16)	(55)	(#243)
BeliefsT&ThresholdT	20.7%	14.1%	5.9%	5.2%	2.2%	4.4%	29.6%	5.2%	12.6%	
	(28)	(19)	(8)	(7)	(3)	(6)	(40)	(7)	(17)	(#135)

Table 12. Donations' distribution clustered (by Threshold)

	Cluster A	Cluster B	Cluster C	
BeliefsT	35.4%	14.8%	49.8%	
	(89)	(36)	(121)	(#243)
Beliefs&ThesholdT	35.4%	17.8%	47.4%	
	(47)	(24)	(64)	(#135)

Table 13. Bonferroni–Holm stepwise multiple-hypotheses-testing procedure (Holm 1979)

rank	<i>p-value</i>	tag: test	criterion cut-off <i>p-values</i>		
			level 10%	level 5%	level 1%
1	0.7	[f]	0.1	0.05	0.01
2	0.3	[e]	0.05	0.025	0.005
3	0.008	[d]	0.033	0.017	0.003
4	0.003	[c]	0.025	0.013	0.003
5	<0.001	[a]	0.02	0.01	0.002
6	<0.001	[b]	0.017	0.008	0.002

Table 14. Donations received by each of the nine organizations in the previous fiscal year through the 5X1000 mechanism

Charity	Donations received	Cluster
EMERGENCY	11,023,415.00	A
UNICEF – ITALIA	5,460,307.00	A
L.A.V. _ LEGA ANTIVIVISEZIONE	1,176,578.00	B
WWF _ WORLD WIDE FOUNDATION ITALIA	1,021,070.00	B
GREENPEACE	758,835.00	B
AMNESTY INTERNATIONAL - SEZIONE ITALIANA	753,674.00	B
CARITAS ITALIANA	193,890.00	C
FONDAZIONE BANCO ALIMENTARE ONLUS	170,351.00	C
ADMO _ ASSOCIAZIONE DONATORI MIDOLLO OSSEO	68,828.00	C

Figure 1. Donations' distribution (by Charity)

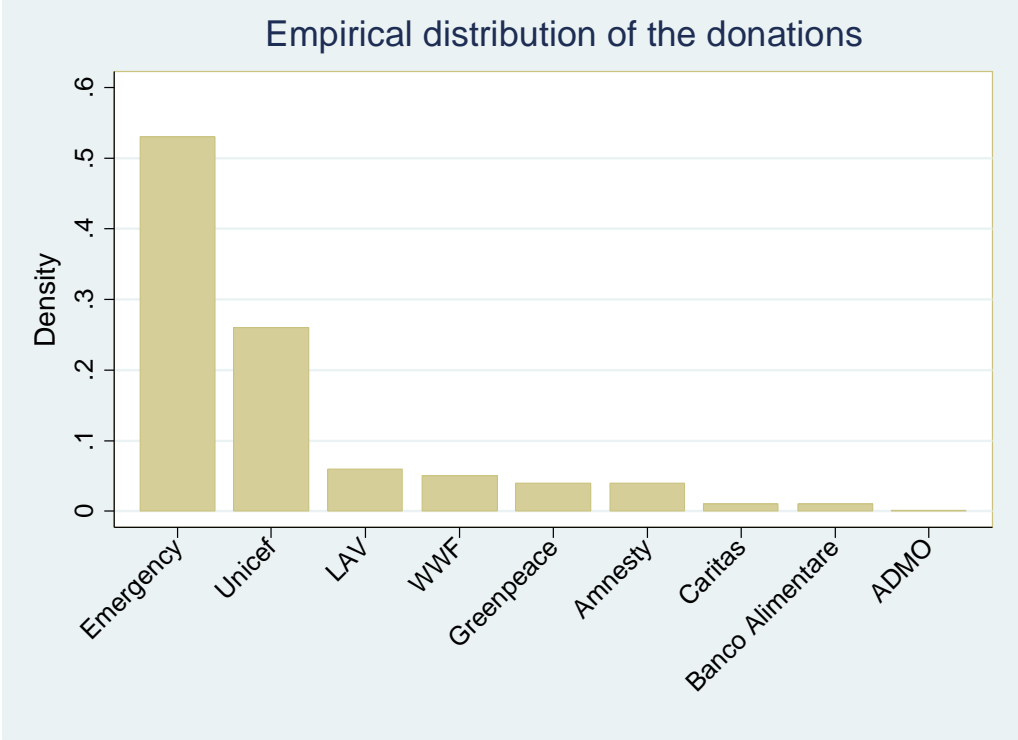


Figure 2. Donations' distribution (by Information)

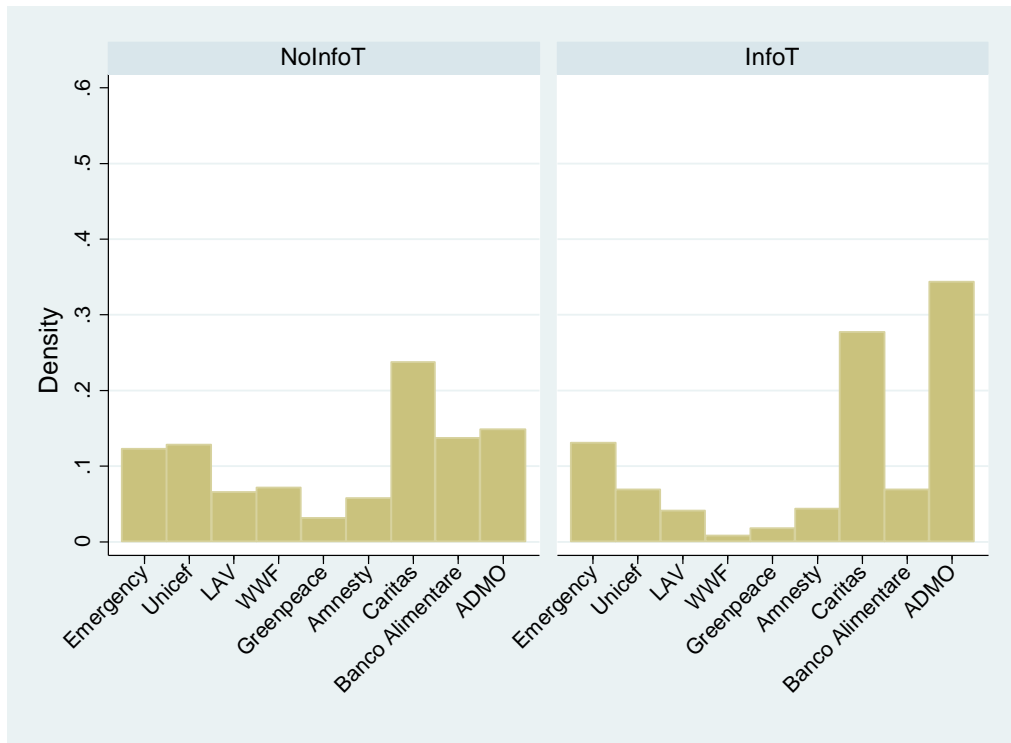


Figure 3. Donations' distribution clustered (by Information)

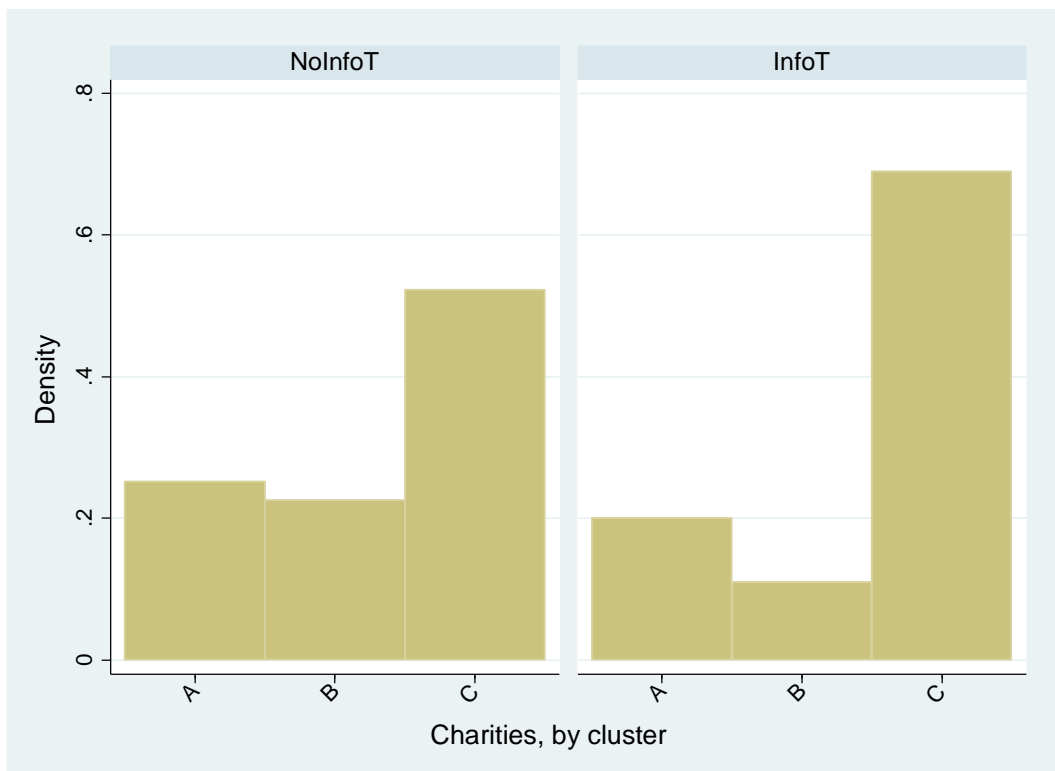


Figure 4. Donations' distribution (by Belief elicitation)

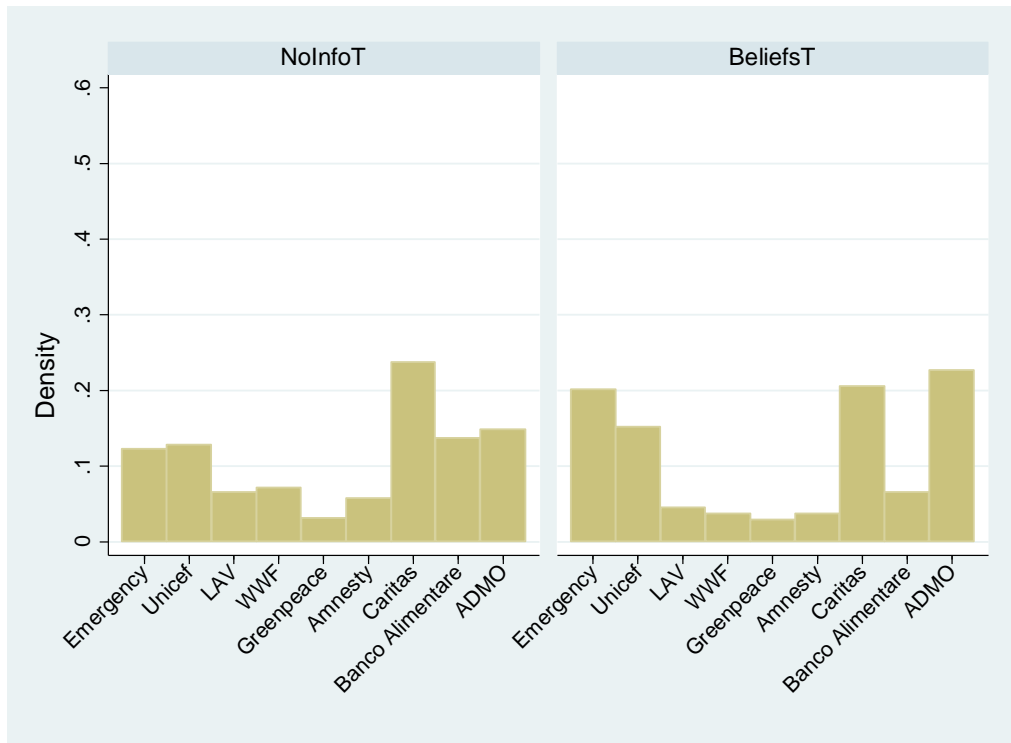


Figure 5. Donations' distribution clustered (by Belief elicitation)

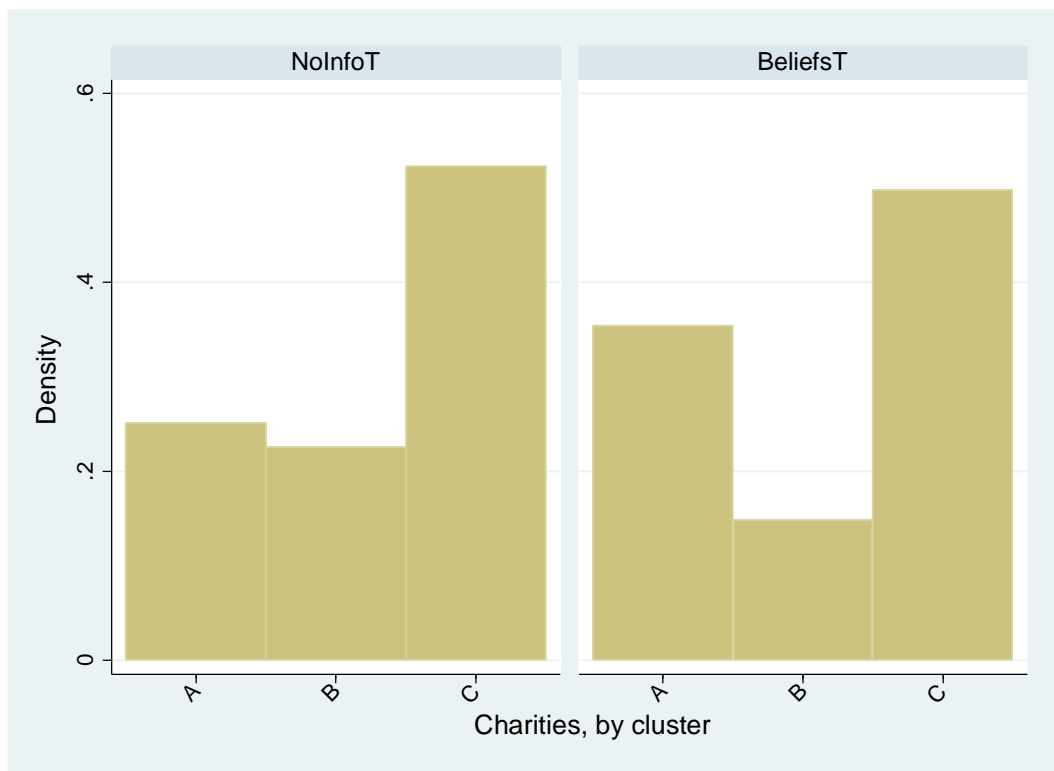


Figure 6. Donations' distribution (by Threshold)

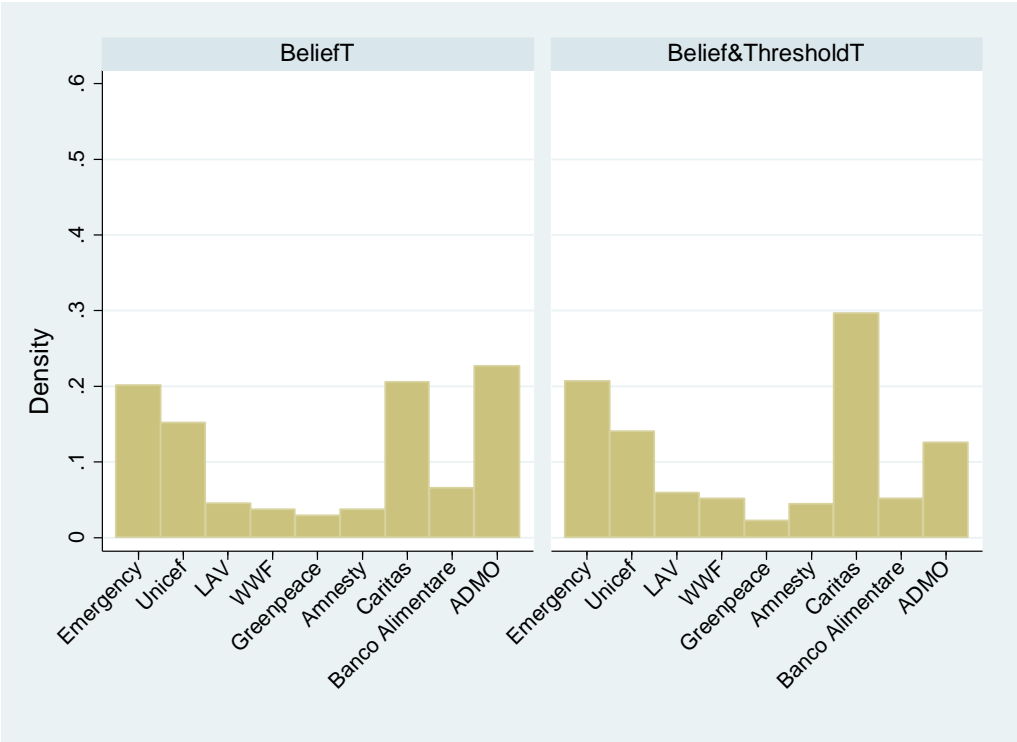
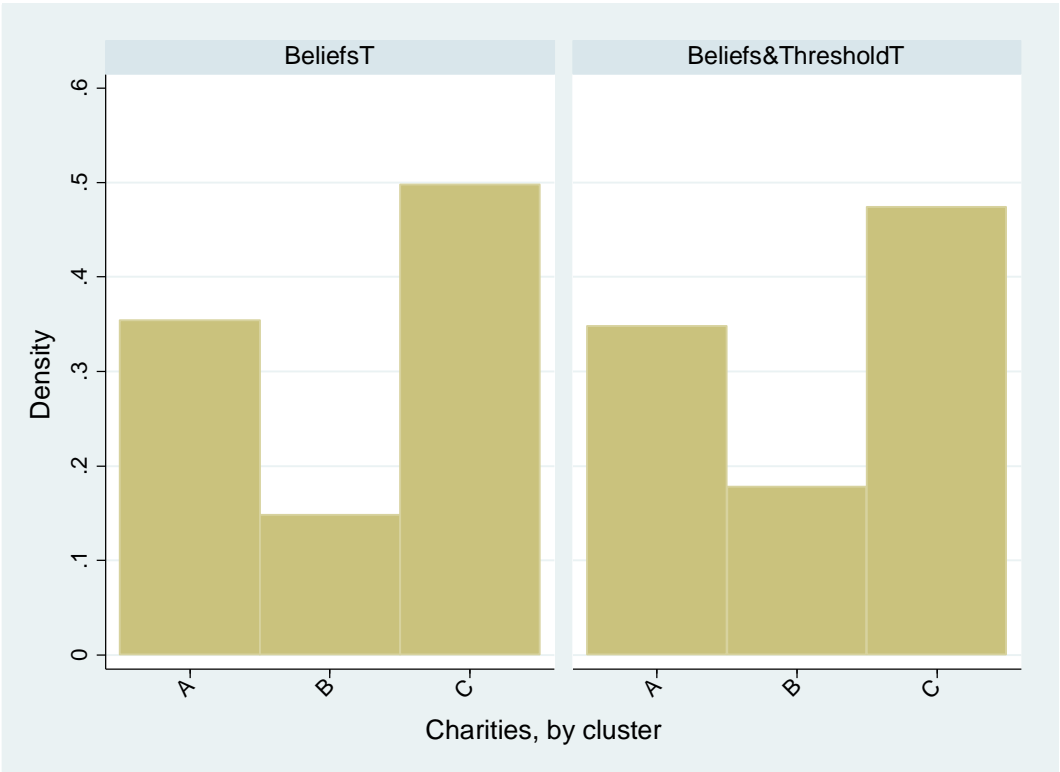


Figure 7. Donations' distribution clustered (by Threshold)



Appendix A: Instructions.

General instructions

Sardegna Solidale and the University of Cagliari are grateful for your decision to participate to this research. We ask you to fill the following questionnaire in all its parts. Try to answer autonomously to all questions and, in case of necessity, ask for the support of our researcher. Answers will be evaluated by us in anonymous form and elaborated in aggregate. Researchers will not be able in any case to retrieve the respondent's identity.

The choice questionnaire task

By filling this questionnaire, you will take part in a lottery organized by the Department of Economics and Business of the University of Cagliari. The drawn will take place on the 31st of October 2013, once all the questionnaires will be collected. The winner's identity will be kept anonymous to the researchers and she/he will be contacted by the Sardegna Solidale volunteers by means of the numeric code you received.

The first and unique prize is equal to 1000 euros. However, this money will not go to the winner. She/he can decide whether to give it or not to one charitable organization among those from the list below. If the prize is not given the winner will not receive anything anyway.

Now we ask you to imagine that you have already won the prize. You now have 1,000 euros that you could give or not to give to one among the not-for-profit organization listed below.

If after the drawn you will result as the lottery winner, the decision you are about to make will be implemented for real. That means that if you decided to give to some organization the prize, such an organization will receive the money for real, otherwise, if you decided not to give, the prize will not be distributed

(in the no-info treatment)

Tick the box corresponding to your choice:

[Tab. A.1]

Tick your preferred option	Organizations
<input type="checkbox"/>	NO DONATION
<input type="checkbox"/>	EMERGENCY
<input type="checkbox"/>	UNICEF – ITALIA
<input type="checkbox"/>	L.A.V. _ LEGA ANTIVIVISEZIONE
<input type="checkbox"/>	WWF _ WORLD WIDE FOUNDATION ITALIA
<input type="checkbox"/>	GREENPEACE
<input type="checkbox"/>	AMNESTY INTERNATIONAL - SEZIONE ITALIANA
<input type="checkbox"/>	CARITAS ITALIANA
<input type="checkbox"/>	FONDAZIONE BANCO ALIMENTARE ONLUS
<input type="checkbox"/>	ADMO _ ASSOCIAZIONE DONATORI MIDOLLO OSSEO

(in the info treatment)

Tick the box corresponding to your choice:

[Tab A.2]

Tick your preferred option	Organizations	Funding Received in 2011 through 5X1000 (Euros)
<input type="checkbox"/>	NO DONATION	
<input type="checkbox"/>	EMERGENCY	11,023,415.00
<input type="checkbox"/>	UNICEF – ITALIA	5,460,307.00
<input type="checkbox"/>	L.A.V. _ LEGA ANTIVIVISEZIONE	1,176,578.00
<input type="checkbox"/>	WWF _ WORLD WIDE FOUNDATION ITALIA	1,021,070.00
<input type="checkbox"/>	GREENPEACE	758,835.00
<input type="checkbox"/>	AMNESTY INTERNATIONAL - SEZIONE ITALIANA	753,674.00
<input type="checkbox"/>	CARITAS ITALIANA	193,890.00
<input type="checkbox"/>	FONDAZIONE BANCO ALIMENTARE ONLUS	170,351.00
<input type="checkbox"/>	ADMO _ ASSOCIAZIONE DONATORI MIDOLLO OSSEO	68,828.00

(in the no-info+beliefs elicitation treatment)

Before making your choice we ask you to order (by assigning a specific rank) each organization in terms of how much funding you think they received the previous year through the 5X1000 mechanism (denote with 1 the organization that raised more money and with 9 the one that raised less and with all the other numbers 2-8 those in the intermediate positions)

Tick the box corresponding to your choice:

[Tab. A.3]

Tick your preferred option	Organizations	Ranking Indicate the position of each organization in term of funding received latest year. (1 = first... 9 = last)
<input type="checkbox"/>	NO DONATION	
<input type="checkbox"/>	EMERGENCY	
<input type="checkbox"/>	UNICEF – ITALIA	
<input type="checkbox"/>	L.A.V. _ LEGA ANTIVIVISEZIONE	
<input type="checkbox"/>	WWF _ WORLD WIDE FOUNDATION ITALIA	
<input type="checkbox"/>	GREENPEACE	
<input type="checkbox"/>	AMNESTY INTERNATIONAL - SEZIONE ITALIANA	
<input type="checkbox"/>	CARITAS ITALIANA	
<input type="checkbox"/>	FONDAZIONE BANCO ALIMENTARE ONLUS	
<input type="checkbox"/>	ADMO _ ASSOCIAZIONE DONATORI MIDOLLO OSSEO	

(in the no-info+beliefs elicitation + threshold treatment)

Before making your choice we ask you to order (by assigning a specific rank) each organization in terms of how much funding you think they received the previous year through the 5X1000 mechanism (denote with 1 the organization that raised more money and with 9 the one that raised less and with all the other numbers 2-8 those in the intermediate positions)

Note that if the amount of the aggregate donations is greater than a given threshold, only a fraction of the 1000 euros will be actually distributed to the organization.

Tick the box corresponding to your choice:

[Tab A.4]

Tick your preferred option	Organizations	Ranking Indicate the position of each organization in term of funding received latest year. (1 = first... 9 = last)
<input type="checkbox"/>	NO DONATION	
<input type="checkbox"/>	EMERGENCY	
<input type="checkbox"/>	UNICEF – ITALIA	
<input type="checkbox"/>	L.A.V. _ LEGA ANTIVIVISEZIONE	
<input type="checkbox"/>	WWF _ WORLD WIDE FOUNDATION ITALIA	
<input type="checkbox"/>	GREENPEACE	
<input type="checkbox"/>	AMNESTY INTERNATIONAL - SEZIONE ITALIANA	
<input type="checkbox"/>	CARITAS ITALIANA	
<input type="checkbox"/>	FONDAZIONE BANCO ALIMENTARE ONLUS	
<input type="checkbox"/>	ADMO _ ASSOCIAZIONE DONATORI MIDOLLO OSSEO	