Supplementary Appendix for:

Voting for the Lesser Evil: Evidence from a Conjoint Experiment in Romania

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Appendix A: Table with Full Vignettes

Table A1: I	Full vignettes	s conjoint ex	periment
	0	J	1

Attributes	Values
Political experience ¹	The candidate does NOT have previous experience as mayor
	• The candidate is currently serving as mayor
Investigation	• Currently, there is NO legal action against the candidate on issues of political integrity
	• The candidate is currently being investigated by the General Anticorruption Agency
	• The candidate was sentenced for previous acts of corruption by the courts
Electoral corruption (positive inducement)	• The candidate did NOT offer money or social assistance from the municipality in exchange for the vote
	• Candidate offered 100 RON in exchange for the vote
	• Candidate offered social assistance from the municipality in exchange for the vote
Gender	• Male
	• Female
Income	• Candidate does NOT have a high income and lives from their own salary
	• The candidate has a high income that originates in a business that they manage
Public policy	• The candidate has NOT made any promises to improve roads in the locality or to renovate school buildings
	• During the campaign, the candidate pledged to renovate schools buildings in the locality
	• During the campaign, the candidate pledged to improve roads and renovate school buildings in the locality
Electoral corruption (negative	• During the campaign, the candidate has NOT threatened non-supporters with cutting their municipal social assistance benefits
inducement)	• During the campaign, the candidate has threatened non-supporters with cutting their municipal social assistance benefits

¹ Participants can get confused if they have to choose between two candidates with political experience since they might think that both are incumbents. To avoid that issue, respondents always evaluated one candidate with experience and one without experience in the same pair (the order within the pair was randomized).

Appendix B: Census and Survey Data

Given that we have a non-probabilistic sample of Romanian voters, we begin by comparing the socioeconomic characteristics of the respondents in our sample to census data.

Covariate	Census data	Survey data
Age (median)	40 years	53 years
Female	51%	51%
High-school or more	56%	59%
Rural	45%	51%

 Table A2: Census and Survey Data

The differences in terms of age are explained by the fact that our sample includes only eligible voters, while the census includes all citizens (children represent 16 percent of the total population of Romania). Therefore, by design, our survey should contain older voters. The proportions of female, rural, and educated voters in our sample are good representations of the country according to the last census conducted in 2011. This provides evidence to indicate that our results are not explained by the configuration of an unusual sample.

Appendix C: Regression Results Figure 1

 Table A3: Main results

	Outcome	
_	Electoral Choice	
Female	-0.009	
	(0.014)	
Incumbent	0.062***	
	(0.018)	
Threat to non-supporters	-0.139***	
	(0.014)	
100 RON	-0.203***	
	(0.017)	
Social assistance	-0.075***	
	(0.018)	
Investigated	-0.180***	
-	(0.016)	
Sentenced	-0.333****	
	(0.017)	
Renovate schools	0.040^{*}	
	(0.016)	
Renovate schools and roads	0.066^{***}	
	(0.016)	
High income	0.007	
	(0.014)	
Constant	0.718^{***}	
	(0.023)	
Respondents	502	
Observations	5020	
Note: *r	p<0.05; **p<0.01; ***p<0.0	

Appendix D: Confidence Intervals Figure 1

	Estimate Lower CI Upper CI		
Female	-0.009	-0.036	0.018
Incumbent	0.062	0.026	0.098
Threat to non-supporters	-0.139	-0.166	-0.111
100 RON	-0.203	-0.237	-0.170
Social assistance	-0.075	-0.110	-0.040
Investigated	-0.180	-0.211	-0.148
Sentenced	-0.333	-0.367	-0.299
Renovate schools	0.040	0.010	0.071
Renovate schools and roads	0.066	0.034	0.098
High income	0.007	-0.020	0.034

Table A4: Confidence intervals for main results

Appendix E: Conjoint Diagnostics

First, we conducted simple balance tests to check the randomization of attributes. We regressed respondents' characteristics on the profile attributes. We find that the candidates' attributes do not significantly predict respondents' characteristics (see appendix F and G).

Secondly, we checked that the effects of attributes were not conditional on the order of the candidates in a pair. This means that respondents do not select candidates based on their position in the comparison (first or second candidate). To perform this test, we regressed the outcomes on the attributes, indicators of the order, and an interaction between these variables. We did not find evidence of profile order effects in any of the interactions (see appendix H).

Third, we test the assumption of no carryover effects. This means that the attributes' effects are not conditional on the pair they are evaluated in (our conjoint has five pairs of candidates per respondent); or in other words, a particular attribute will have the same importance for respondents regardless of which pair is evaluated. We follow the same strategy when we check the profile order assumption. In this case, however, the interaction is the number of the pair. We did not find systematic evidence of carryover effects (see appendix I).

Appendix F: Balance Test 1

Female	Urban
Female	
	-0.003
	(0.014)
Incumbent	0.0002
	(0.001)
Threat to non-supporters	-0.002
	(0.014)
100 RON	0.017
	(0.016)
Social assistance	0.030
	(0.017)
Investigated	-0.001
	(0.017)
Sentenced	0.001
	(0.018)
Renovate schools	-0.007
	(0.017)
Renovate schools and roads	0.004
	(0.018)
High income	0.011
	(0.014)
Constant	0.477^{***}
	(0.031)

Table A5: Regression using urban as outcome

Note:

*p<0.05; **p<0.01; ***p<0.001

Appendix G: Balance Test 2

	Outcome	
	High-School	
Female	-0.023	
	(0.014)	
Incumbent	0.0001	
	(0.001)	
Threat to non-supporters	-0.012	
	(0.014)	
100 RON	0.008	
	(0.016)	
Social assistance	0.017	
	(0.017)	
Investigated	-0.018	
	(0.017)	
Sentenced	-0.005	
	(0.018)	
Renovate schools	-0.003	
	(0.016)	
Renovate schools and roads	0.022	
	(0.018)	
High income	0.010	
	(0.014)	
Constant	0.593***	
	(0.030)	

Table A6: Regression using high-school as outcome

Note:

*p<0.05; **p<0.01; ***p<0.001

Appendix H: Profile Order Effects

	Outcome	
	Electoral Choice	
Female	-0.003	
	(0.019)	
Incumbent	0.058**	
	(0.020)	
Threat to non-supporters	-0.122****	
	(0.019)	
100 RON	-0.212***	
	(0.024)	
Social assistance	-0.061*	
	(0.024)	
Investigated	-0.178***	
C	(0.023)	
Sentenced	-0.339***	
	(0.024)	
Renovate schools	0.039	
	(0.022)	
Renovate schools and roads	0.071**	
	(0.024)	
High income	-0.002	
C	(0.019)	
Candidate 2	0.018	
	(0.046)	
Female*Candidate 2	-0.010	
	(0.027)	
Incumbent*Candidate 2	0.007	
	(0.014)	
Threat to non- supporters*Candidate 2	-0.032	
Supportors Currenduite 2	(0.026)	
100 RON*Candidate 2	0.016	
100 ROTY Canadate 2	(0.032)	
	(0.052)	

 Table A7: Regression for profile order effects

Social assistance*Candidate 2	-0.028
	(0.032)
Investigated*Candidate 2	-0.003
	(0.032)
Sentenced*Candidate 2	0.011
	(0.032)
Renovate schools*Candidate 2	0.001
	(0.031)
Renovate schools and roads*Candidate 2	-0.009
	(0.032)
High income*Candidate 2	0.016
	(0.027)
Constant	0.709***
	(0.033)

Note:

*p<0.05; **p<0.01; ***p<0.001

Appendix I: No Carryover Effects

	Outcome	
	Electoral Choice	
Female	-0.010	
	(0.029)	
Incumbent	0.064	
	(0.040)	
Threat to non-supporters	-0.144***	
	(0.030)	
100 RON	-0.186***	
	(0.038)	
Social assistance	0.005	
	(0.039)	
Investigated	-0.146***	
	(0.039)	
Sentenced	-0.283***	
	(0.037)	
Renovate schools	0.028	
	(0.038)	
Renovate schools and roads	0.066	
	(0.037)	
High income	-0.0003	
	(0.031)	
Pair 2	0.037	
	(0.068)	
Pair 3	0.085	
	(0.069)	
Pair 4	0.059	
	(0.069)	
Pair 5	-0.016	
	(0.069)	
Female*Pair 2	0.053	
	(0.040)	

 Table A8: Regression for no carryover effects

 Outcome

Female*Pair 3	-0.040
	(0.042)
Female*Pair 4	0.011
	(0.040)
Female*Pair 5	-0.015
	(0.039)
Incumbent*Pair 2	0.006
	(0.054)
Incumbent*Pair 3	-0.036
	(0.055)
Incumbent*Pair 4	-0.020
	(0.053)
Incumbent*Pair 5	0.043
	(0.053)
Threat to non- supporters*Pair 2	-0.009
supporters 1 an 2	(0.041)
Threat to non-	-0.014
supporters*Pair 3	-0.014
	(0.044)
Threat to non- supporters*Pair 4	0.022
	(0.042)
Threat to non-	0.018
supporters*Pair 5	
	(0.042)
100 RON*Pair 2	-0.006
	(0.051)
Social assistance*Pair 2	-0.110^{*}
	(0.052)
100 RON*Pair 3	0.023
	(0.053)
Social assistance*Pair 3	-0.073
	(0.056)
100 RON*Pair 4	-0.064
	(0.053)
Social assistance*Pair 4	-0.100
	(0.053)
100 RON*Pair 5	-0.029
	(0.049)

Social assistance*Pair 5	-0.113*
	(0.052)
Investigated*Pair 2	-0.082
	(0.053)
Sentenced*Pair 2	-0.099
	(0.051)
Investigated*Pair 3	-0.041
	(0.055)
Sentenced*Pair 3	-0.023
	(0.050)
Investigated*Pair 4	-0.036
	(0.051)
Sentenced*Pair 4	-0.048
	(0.050)
Investigated*Pair 5	-0.004
	(0.052)
Sentenced*Pair 5	-0.075
	(0.046)
Renovate schools*Pair 2	0.029
	(0.050)
Renovate schools and roads*Pair 2	-0.001
	(0.052)
Renovate schools*Pair 3	-0.008
	(0.050)
Renovate schools and roads*Pair 3	-0.023
	(0.052)
Renovate schools*Pair 4	-0.012
	(0.054)
Renovate schools and roads*Pair 4	-0.060
	(0.052)
Renovate schools*Pair 5	0.040
	(0.053)
Renovate schools and roads*Pair 5	0.075
	(0.052)
High income*Pair 2	0.017
	(0.042)

High income*Pair 3	-0.017
	(0.040)
High income*Pair 4	0.028
	(0.042)
High income*Pair 5	0.006
	(0.043)
Constant	0.684^{***}
	(0.053)

Note:

*p<0.05; **p<0.01; ***p<0.001

Appendix J: Heterogeneous Treatment Effects

Heterogeneity across candidates

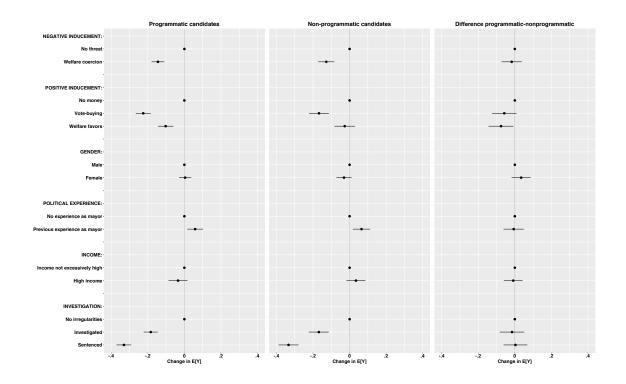
First, we turn to the heterogeneity across candidates. Do voters impose different punishments on politicians who provide public goods but commit irregularities? To address this question, we consider interactions between attributes measuring different electoral irregularities and the provision of public goods.

We examine whether programmatic promises—which in our case are promises to rebuild only schools or roads and schools—can offset punishment for different irregularities. We examine this question by interacting a binary indicator of policy commitments with the other candidate attributes.

Figure A1 provides the AMCE by subgroup (programmatic and nonprogrammatic candidates) and reports the differences between them.² We find that there is a significant difference between both groups only on one attribute (welfare favors).

² We use an interaction with a binary indicator of income to construct the plots.

Figure A1: Results by type of candidate



Heterogeneity across voters

In a previous study, Weitz-Shapiro has documented that the tolerance threshold towards vote-buying strategies differs across high and low-income citizens in Argentina (Weitz-Shapiro 2012, 2014). The proposed explanation for this difference is that low-income voters derive a higher marginal utility from positive inducements and, consequently, a higher tolerance for these illicit practices. Our study builds on and extends the original analysis by Weitz-Shapiro, by examining whether high and low-income voters have different tolerance thresholds for different unlawful activities in addition to vote-buying. As conjectured above, the heterogeneity among voters may be pronounced in the case of clientelistic strategies premised on positive inducements—where low-income voters

derive significant income streams from the clientelistic transaction—but less so in the case of clientelistic strategies where no such inducements are offered to voters. The evaluation of coercive strategies is based primarily on normative criteria, and these strategies should be undesirable to all voters, not only to high-income voters.

Figure A2 presents the results of our analysis. The first two plots of the figure display the ACMEs for low- and high-income voters, respectively, while setting a monthly income of 900 RON (the official minimal income) as the threshold, while the table on the right-hand side presents the results for the differences between these groups. Consistent with previous results, we find that low-income voters do not penalize clientelistic strategies premised on welfare favors, but do punish clientelistic strategies that involve vote-buying.

We do not find significant differences between high- and low-income voters in the evaluation of clientelistic strategies premised on coercion. This is consistent with our main conjecture that the normative dislike for coercion should be very high.³

³ The F-test for the joint significance of the interaction terms provides significant results.

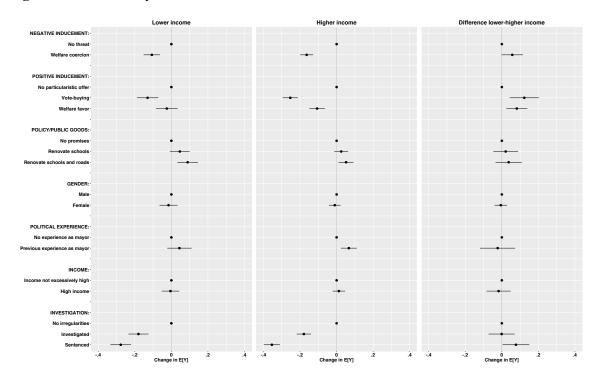


Figure A2: Results by income level

We now examine whether the "punishment threshold" for different electoral irregularities differs across voters. Clientelistic practices are much more entrenched in rural, as compared to urban settings. The outside employment opportunities are much lower in rural communities, which increases the value of the transfers provided by mayors as part of clientelistic exchanges. As a result, one expects to find differences between rural and urban voters in their willingness to punish illicit electoral strategies. Observers of Romanian politics have invoked these differences to explain the stronger electoral performance in rural communities of candidates who ended up ultimately being indicted, such as Adrian Nastase, Romania's prime minister, who is currently serving time in jail.

The results presented in Figure A3 report the differences in the ACME between urban and rural voters. We find that that both groups have a significant difference only in two attributes. Rural voters are less likely to punish candidate who engage in *vote-buying or who have previously been sentenced* in comparison to urban voters.

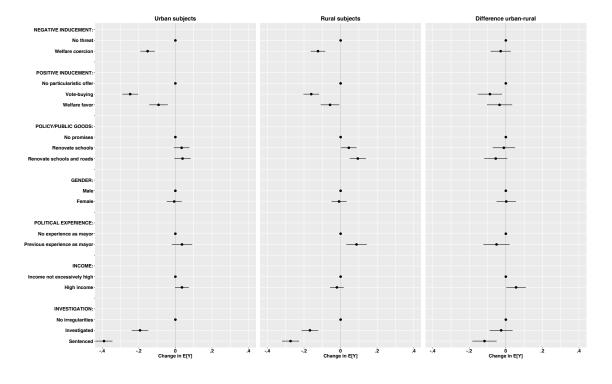


Figure A3: Results by respondent characteristics

To summarize, we find that voters with different background characteristics have different punishment thresholds for different electoral irregularities. Some of our findings are consistent with the results of other studies, showing that low-income voters or voters in rural communities have a higher punishment threshold for illicit strategies (Weitz-Shapiro 2012).

	Outcome	
_	Electoral Choice	
Female	-0.031	
	(0.021)	
Incumbent	0.065^{**}	
	(0.024)	
Threat to non-supporters	-0.127***	
	(0.022)	
100 RON	-0.168***	
	(0.028)	
Social assistance	-0.027	
	(0.029)	
Investigated	-0.168***	
	(0.028)	
Sentenced	-0.334***	
	(0.028)	
Programmatic	0.101^{*}	
	(0.040)	
High income	0.013	
	(0.022)	
Female*Programmatic	0.035	
	(0.027)	
Incumbent*Programmatic	-0.006	
	(0.028)	
Threat to non-supporters*Programmatic	-0.017	
	(0.028)	
100 RON*Programmatic	-0.058	
	(0.034)	
Social assistance*Programmatic	-0.076^{*}	
	(0.035)	
Investigated*Programmatic	-0.015	
	(0.034)	
Sentenced*Programmatic	0.003	
	(0.033)	

Appendix K: Regression Tables for Heterogeneous Treatment Effects

Note:	*p<0.05; **p<0.01; ***p<0.001
Observations	5020
Respondents	502
	(0.034)
Constant	
	(0.026) 0.687^{***}
High income*Programmatic	-0.009

Electoral Choice Female -0.008 Incumbent 0.087** (0.021) Incumbent Incumbent 0.087** (0.029) Threat to non-supporters -0.124*** (0.020) 100 RON -0.160*** (0.022) Social assistance -0.058* (0.022) Social assistance -0.058* (0.023) Sentenced -0.274*** (0.024) Renovate schools 0.045* (0.022) Renovate schools and roads 0.094*** (0.023) 101 pm 0.072 Renovate schools and roads 0.002 0.019) Urban 0.002 0.027) Incumbent*Urban -0.051 0.002 (0.027) Incumbent*Urban -0.028 (0.028) 100 RON*Urban -0.028 (0.034) Social assistance*Urban -0.034		Outcome
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		(0.022)
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Renovate schools 0.045* (0.022) (0.022) Renovate schools and roads 0.094*** (0.023) (0.023) High income -0.020 (0.019) (0.019) Urban 0.072 (0.046) (0.046) Female*Urban 0.002 (0.027) (0.027) Incumbent*Urban -0.051 (0.037) (0.028) 100 RON*Urban -0.087** (0.034) -0.034	Sentenced	-0.274***
$ \begin{array}{c} (0.022) \\ \text{Renovate schools and roads} & 0.094^{***} \\ (0.023) \\ \text{High income} & -0.020 \\ (0.019) \\ \text{Urban} & 0.072 \\ (0.046) \\ \text{Female*Urban} & 0.002 \\ (0.027) \\ \text{Incumbent*Urban} & -0.051 \\ (0.037) \\ \text{Threat to non-supporters*Urban} & -0.028 \\ (0.028) \\ 100 \ \text{RON*Urban} & -0.087^{**} \\ (0.034) \\ \text{Social assistance*Urban} & -0.034 \\ \end{array} $		(0.024)
Renovate schools and roads 0.094*** (0.023) (0.023) High income -0.020 (0.019) (0.019) Urban 0.072 (0.046) (0.046) Female*Urban 0.002 (0.027) (0.027) Incumbent*Urban -0.051 (0.037) (0.028) 100 RON*Urban -0.087** (0.034) -0.034	Renovate schools	0.045*
Renovate schools and roads 0.094*** (0.023) (0.023) High income -0.020 (0.019) (0.019) Urban 0.072 (0.046) (0.046) Female*Urban 0.002 (0.027) (0.027) Incumbent*Urban -0.051 (0.037) (0.028) 100 RON*Urban -0.087** (0.034) -0.034		(0.022)
High income -0.020 (0.019) (0.019) Urban 0.072 (0.046) (0.046) Female*Urban 0.002 (0.027) (0.027) Incumbent*Urban -0.051 (0.037) (0.037) Threat to non-supporters*Urban -0.028 (0.028) (0.034) Social assistance*Urban -0.034	Renovate schools and roads	
(0.019) Urban 0.072 (0.046) Female*Urban 0.002 (0.027) Incumbent*Urban -0.051 (0.037) Threat to non-supporters*Urban -0.028 (0.028) 100 RON*Urban -0.087** (0.034) -0.034		(0.023)
Urban 0.072 (0.046) (0.046) Female*Urban 0.002 (0.027) (0.027) Incumbent*Urban -0.051 (0.037) (0.037) Threat to non-supporters*Urban -0.028 (0.028) (0.034) Social assistance*Urban -0.034	High income	-0.020
(0.046) Female*Urban 0.002 (0.027) Incumbent*Urban -0.051 (0.037) Threat to non-supporters*Urban -0.028 (0.028) 100 RON*Urban -0.087** (0.034) Social assistance*Urban -0.034		(0.019)
Female*Urban 0.002 Incumbent*Urban -0.051 (0.037) (0.037) Threat to non-supporters*Urban -0.028 (0.028) (0.028) 100 RON*Urban -0.087** (0.034) -0.034	Urban	0.072
(0.027) Incumbent*Urban -0.051 (0.037) Threat to non-supporters*Urban -0.028 (0.028) 100 RON*Urban -0.087** (0.034) Social assistance*Urban -0.034		(0.046)
Incumbent*Urban -0.051 (0.037) (0.037) Threat to non-supporters*Urban -0.028 (0.028) (0.028) 100 RON*Urban -0.087** (0.034) -0.034	Female*Urban	0.002
(0.037) Threat to non-supporters*Urban -0.028 (0.028) 100 RON*Urban -0.087** (0.034) Social assistance*Urban -0.034		(0.027)
Threat to non-supporters*Urban -0.028 (0.028) (0.028) 100 RON*Urban -0.087** (0.034) -0.034	Incumbent*Urban	-0.051
11 (0.028) 100 RON*Urban -0.087** (0.034) .0.034		(0.037)
100 RON*Urban -0.087** (0.034) Social assistance*Urban -0.034	Threat to non-supporters*Urban	-0.028
Social assistance*Urban(0.034)-0.034		(0.028)
Social assistance*Urban -0.034	100 RON*Urban	-0.087**
		(0.034)
(0.035)	Social assistance*Urban	-0.034
		(0.035)

 Table A10: Urban interaction (respondent characteristics)

Investigated*Urban	-0.026
	(0.032)
Sentenced*Urban	-0.117***
	(0.034)
Renovate schools*Urban	-0.011
	(0.031)
Renovate schools and roads*Urbar	n -0.055
	(0.032)
High income*Urban	0.056^{*}
	(0.027)
Constant	0.681***
	(0.033)
Respondents	502
Observations	5020
Note:	*p<0.05; **p<0.01; ***p<0.001

	Outcome
-	Electoral Choice
Female	-0.010
	(0.016)
Incumbent	0.067**
	(0.022)
Threat to non-supporters	-0.164***
	(0.018)
100 RON	-0.253***
	(0.021)
Social assistance	-0.107***
	(0.022)
Investigated	-0.179***
	(0.020)
Sentenced	-0.354***
	(0.022)
Renovate schools	0.025
	(0.019)
Renovate schools and roads	0.052*
	(0.021)
High income	0.012
	(0.017)
Less 900 RON	-0.078
	(0.049)
Female*Less 900 RON	-0.006
	(0.030)
Incumbent*Less 900 RON	-0.023
	(0.041)
Threat to non-supporters*Less 900 RON	0.057
	(0.029)
100 RON*Less 900 RON	0.123***
	(0.036)
Social assistance*Less 900 RON	0.082*
	(0.037)
Investigated*Less 900 RON	-0.001
-	(0.034)

 Table A11: Income interaction (respondent characteristics)

Sentenced*Less 900 RON	0.077*
	(0.037)
Renovate schools*Less 900 RON	0.021
	(0.034)
Renovate schools and roads*Less 900 ROM	N 0.037
	(0.036)
High income*Less 900 RON	-0.018
	(0.030)
Constant	0.756***
	(0.029)
Respondents	479
Observations	4790
Note:	[°] p<0.05; ^{°°} p<0.01; ^{°°°} p<0.001

Appendix L: Multiple Comparison Corrections

Attributes	No correction	n BH correction	n Bonferroni correction
Female	0.514	0.571	1
Incumbent	0.001	0.001	0.008
Threat to non-supporters	0.000	0.000	0.000
100 RON	0.000	0.000	0.000
Social assistance	0.000	0.000	0.000
Investigated	0.000	0.000	0.000
Sentenced	0.000	0.003	0.000
Renovate schools	0.010	0.013	0.102
Renovate schools and road	s 0.000	0.000	0.001
High income	0.609	0.609	1

Table A12: P-values before and after multiple comparison correction

Appendix M: Outcomes

The interaction of normative disabilities and prosecutorial campaigns leads to six outcomes regarding the expected punishment of illicit activities.

Normative disutility	Existence of highly visible prosecutorial campaign	Expected punishment by voters
Low	No	Low
Medium	No	Medium
High	No	High
Low	Yes	Medium
Medium	Yes	High
High	Yes	High

Table A13: Expanded Table 1

Therefore, the expected punishment is first explained by the normative disutility. If the latter is high the former will also be high. However, the existence of a campaign can move punishment from low to medium or medium to high. Unfortunately, we do not have evidence to illustrate each of these six scenarios. The case of Romania helps illuminate only three of them. Nevertheless, we believe that these examples can contribute to a better understanding of the role of normative disutility and prosecutorial campaigns.