Online Appendix

Appendix A: Text of cover letters

A.1. Standard cover letter (baseline treatment T1)

Dear Mr. X,

fees.

You listen to radio, you watch TV? Then you are aware of the program variety offered by Austrian Public Broadcasting. The provision of these services, however, requires funding. Therefore, everybody who owns a radio or a TV has to pay license fees. It is the task of GIS Gebühren Info Service GmbH to ensure that all TV and radio consumers pay these

[1]

Our database does not show a registration of TV or radio equipment at your address.

This can have several reasons:

- We may have made a mistake in our database and you are already registered at GIS.
 In this case, we apologize in advance.
- Your registration data may have changed, e.g., due to a move or a name change (marriage), and our computer system cannot match the data with your registration.
- You may not hold a radio or a TV at this address and therefore do not have to register anything.
- Maybe you have just forgotten to register your TV or radio.

We are legally obliged to clarify this issue and kindly ask you to answer our questions

– even if you have already registered at GIS. On the back of this letter you will find a
response form. Please fill in this form and send it back within the next 14 days.

[2]

We thank you for your cooperation. If you require further information, please call our service hotline at 0810 00 10 80 (Monday to Friday, 8.00am to 9.00pm, Saturday from

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 $9.00\mathrm{am}$ to $5.00\mathrm{pm})$ or visit our web page at www.orf-gis.at.

Kind regards, your

GIS-Team.

A.2. Threat (treatments T2, T4, T6)

Treatments T2, T4 and T6 included the following paragraph at position [2] of the standard letter:

If you do not respond to this letter, a staff member of GIS will contact you in order to request information from you personally. If you refuse to provide information or if there is a well-founded suspicion that you provide disinformation, GIS is obligated to order an inquiry by the responsible federal authorities. Please keep in mind that in this case you may face legal consequences and considerable costs.

A.3. Social information (treatments T3, T4)

Treatments T3 and T4 added the following paragraph at position [1] of the standard letter:

Do you actually know that almost all citizens comply with this legal duty? In fact, 94

percent – a vast majority of all households – have registered their broadcasting receivers.

A.4. Moral appeal (treatments T5, T6)

The treatments T5 and T6 included the following paragraph at position [1]:

Those who do not conscientiously register their broadcasting receivers not only violate the law, but also harm all honest households. Hence, registering is also a matter of fairness.

Appendix B: Evidence on the perceived level of non-compliance

In a national survey conducted in the year 2000, more than 1000 Austrian households were asked to state their belief about the frequency of license fee evasion (see Traxler and Winter, 2009). Figure B.1 plots the distribution of the response (measured on a five-point Likert scale ranging from 'very frequent' to 'very infrequent') against GIS' estimate of the local evasion rate (in the categories 0-5, 5-10, 10-20, 20-30 and above 30%) in the respondent's home district at the time of the survey. (The estimate for local evasion corresponds to one minus the share of households who are registered for license fees relative to the total number of households living in a jurisdiction.) The figure reveals a strong correlation of beliefs with the local evasion levels. In regions with

an evasion rate below 5%, more than 75% believe that dodging the fee is infrequent or very infrequent. In districts with evasion levels above 30%, this number drops to 33%. Vice versa, the share of respondents who believe that evasion is frequent or very frequent rises from 11% in low evasion regions to 34% in districts with high levels of non-compliance. Estimating ordered probit models that control for individual characteristics confirms this correlation.

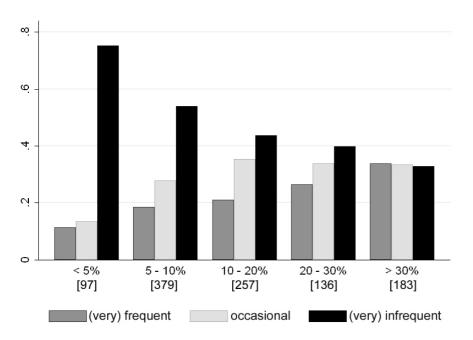


FIGURE B.1. Beliefs about TV license fee evasion

Notes: The figure plots the response distribution on beliefs about the frequency of license fee evasion in Austria for regions with an estimated local evasion rate of 0-5%, 5-10%, 10-20%, 20-30% and above 30%. The number of observations in the five categories is displayed in squared brackets.

Appendix C: Heterogenous treatment effects

Table C.1 presents the results from estimations of equation (1) for several subgroups that split our sample according to the median of (i) the population size, (ii) population density, (iii) the municipalities' average household income, (iv) and the share of votes casted to rightist parties.

Table C.1. Heterogenous treatment effects

Dependent variable: Registrations (within 50 days)										
	Population Size		Population Density		Household Income		Right Voters			
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	(I)	(II)	(III)	(IV)	(V)	(VI)	(VII)	(VIII)		
Threat	0.017***	0.008**	0.014***	0.011***	0.020***	0.006**	0.006*	0.018***		
	(0.004)	(0.004)	(0.004)	(0.004)	(0.005)	(0.003)	(0.003)	(0.004)		
Moral	-0.002	-0.008*	-0.001	-0.010**	-0.004	-0.005	-0.007^*	-0.003		
	(0.005)	(0.004)	(0.005)	(0.004)	(0.005)	(0.004)	(0.004)	(0.005)		
Info	-0.002	-0.002	0.000	-0.005	-0.000	-0.004	-0.002	-0.003		
	(0.005)	(0.004)	(0.005)	(0.004)	(0.005)	(0.004)	(0.004)	(0.005)		
Observations	20,528	20,479	20,726	20,281	18,438	22,569	20,521	20,486		

^{*} Notes: All specifications are estimated with a linear probability model and include a constant term and a large set of control variables (see Fellner et al., 2009). The estimations are run for subgroups that split the sample according to the sample median of the municipalities population size (I and II), population density (III and IV), average household income (V and VI) and the share of votes casted to rightist parties (Volkspartei, Freiheitliche and Bündnis Zukunft Österreich) in the 2006 parliamentary elections (VII and VIII). Robust standard errors are in parentheses. ***, ** indicate significance at a 1%, 5%, 10%-level, respectively.

Appendix D: Perception survey

D.1. Details on setup and procedure

The perception survey was implemented November 24–28, 2008, using the online survey tool *unipark.de*. Survey participants were invited via email

on the University of Innsbruck mailing list. To provide an incentive for participating, everybody who finished the survey had a 1/25 chance of winning an Amazon voucher worth ≤ 25 . 4,165 individuals clicked on the link to the survey and 3,233 completed the survey within an average of 8 minutes. The participants were mainly students plus some non-academic employees. Hence, the subject pool differs substantially from the sample of our field experiment. However, there should be a relatively high fraction of evaders in the survey sample, as cheating on license fees is quite common among students.

Survey participants were randomly confronted with one of two scenarios.

One scenario described an evader vignette (a person who moved to a new place six months ago and evaded the fee since then), the other one a vignette of a complying individual (who moved six month ago, paid the fee, but did not inform GIS about the change in address). After participants read the scenario description, the web page randomly linked them to a situation that mimicked one of the treatments from the field experiment. A random subsample formed the control (T0). All others were instructed that the vignette person received a mailing from GIS. Thereafter a cover letter, which corresponds to one of our six mailing treatments (T1–T6), was displayed on the web page. Survey participants were then asked to evaluate the situation of the person. In this way, we elicited the treatments' impact on various perceptions.

The question regarding the perceived risk of an inspection was formulated as follows: "How large do you think is the risk – after having received this mailing [omitted for the control group (T0)] – that the person will receive a 'visit' by a licensing inspector within the next 4 weeks? Please tick a number on the scale between 0 (very unlikely) to 100 (very likely)." Note that subjects

had to click on a very fine-scaled ruler to indicate this number. Hence, our data show comparably little clustering on prominent numbers.

A question regarding the perceived inclination to respond to the treatment – either by registering (for evaders) or by making an update response (for complying individuals) – was asked in a similar way: "What do you think is the person's inclination – after having received this mailing [omitted for the control group (T0)] – to register at GIS within the next 4 weeks and pay the license fee thereafter? [... to inform GIS about the new address within the next 4 weeks?] Please tick a number on the scale between 0 (will certainly not register [inform]) to 100 (will certainly register [inform])."

We also asked for the expected fines in case of a detection: "Assume that the person is indeed detected by a field inspector. Which consequences do you expect? He has to pay...

- (1) no fine.
- (2) a fine of less than $\in 100$.
- (3) a fine of $\in 100 500$.
- (4) a fine of $\in 500 1000$.
- (5) a fine of $\leq 1000 2000$.
- (6) a fine of $\in 2000 4000$.
- (7) a fine of more than ≤ 4000 ."

Expectations regarding social sanctions were elicited in the following way:

"An acquaintance of the person learns that he has not paid TV license fees for the

past 6 months. [...that he has not informed GIS about his change in the address.]

How will the acquaintance react?

(1) will strongly approve the behavior, and support him not to register for license

fees [not to update the information].

(2) will approve the behavior.

(3) will not react at all.

(4) will disapprove the behavior.

(5) will strongly disapprove the behavior, and cool down the contact to the person.

D.2. Survey results

Columns (I) and (II) of Table D.1 show the outcome of regressing the

stated risk perception on the treatments and the scenario type. By far

the largest impact on perceptions is induced by the mailing conditions.

After being confronted with a mailing, survey participants evaluate the

household's inspection risk to be roughly 60% higher than in the no-mailing

group. Compared to the baseline mailing (T1), the threat increases the

expected inspection risk by another 5%. Specification (II) includes control

variables on the respondents' personal characteristics. This hardly changes

the point estimates of the treatment effects. The same holds true when we

estimate Tobit instead of OLS regressions. Remarkably, similar estimations

the coefficient for the mailing dummy relative to the constant.

^{1.} The percentage is based on the estimates from specification (I) in Table D.1, putting

for perceived *social* sanctions reveal that the threat – just like the two other mailing conditions – does not affect respondents' expectations.

TABLE D.1. Survey results: Treatment effects on risk perceptions and propensity to respond

Dependent variable:	Inspection	on risk	Response propensity		
	(I)	(II)	(III)	(IV)	
Mailing	22.923***	24.333***	39.490***	40.699***	
	(2.179)	(2.183)	(1.697)	(1.713)	
Mailing \times Threat	2.921***	3.193***	5.132***	5.621***	
	(1.104)	(1.107)	(0.957)	(0.944)	
$Mailing \times Moral$	0.768	-0.056	1.667	0.702	
	(1.332)	(1.338)	(1.152)	(1.141)	
Mailing \times Info	-0.306	-1.064	3.083**	2.597^{**}	
	(1.360)	(1.362)	(1.180)	(1.156)	
Evader	0.673	0.862	-7.063^{***}	-7.095^{***}	
	(1.103)	(1.104)	(0.954)	(0.941)	
Constant	38.388***	56.801***	26.448***	59.561***	
	(2.106)	(5.354)	(1.614)	(4.379)	
Additional control	No	Yes	No	Yes	
Observations	3,213	3,098	3,213	3,098	

^{*} Notes: Results from OLS regressions with robust standard errors in parentheses. ***, *** indicate significance at a 1%- and 5%-level, respectively.

Columns (III) and (IV) of Table D.1 report the estimated treatment effects on the expectations about the vignette person's propensity to respond to the treatment (either by registering or by updating). In line with the treatment effects on the perceived risk of an inspection, and consistent with the results from the field experiment, survey participants expect a strong mailing effect and a modest, but significant additional effect of the threat. In addition, the survey data also indicate a positive effect of the social information treatment. This observation might be explained by the fact that the survey participants initially expected a relatively low level of compliance (with a mean of 70.5%

and modus of 75%) and were therefore positively surprised by the information

on a compliance rate of 94%. Finally, the regressions also show that evaders

are expected to be less likely to respond compared to complying individuals.

Again, this mirrors the gap in the frequency of registrations and update

responses observed in the field experiment.

Regarding the expected size of fines, we find neither an impact of the

threat nor any mailing effect. The survey reveals, however, that participants

expect significantly lower fines for complying individuals than for cheaters

(p = 0.003, according to a Wilcoxon rank-sum test). Equivalently, complying

households are also expected to face significantly weaker social sanctions in

case of an inspection (p = 0.003). These findings are consistent with the fact

that GIS does not impose fines on law-abiding individuals and supports our

interpretation of the heterogenous impact of the threat on registrations and

update responses established in the field experiment (see Section 5.2).

References

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