Shaming for Tax Enforcement – Online-Pranger zur Reduktion von Steuerschulden?

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im Erscheinen: Management Science

NETZWERK BESSERE RECHTSETZUNG UND BÜROKRATIEABBAU

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Capacity to Tax is a Major Economic Variable

Capacity to tax is essential for economic growth

- ► E.g., Acemoglu, Johnson, and Robinson (2005)
- ► The capacity to raise tax revenue = a "Pillar of Prosperity" (Besley and Persson 2011)

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Tax revenue raised depends on tax code and tax enforcement

- ► Economic incentives: audits, penalties
- Social incentives: social norms, recognition, shame etc.

Contribution of This Paper

Large literature on the impact of economic incentives.

Though, limited understanding of social incentives.

This paper

- Identifies the causal effect of shaming on tax compliance
- Exploits a large shift in social incentives: new shaming policy
- Takes advantage of rich administrative tax data
- Studies corporations and self-employed individuals
- Differentiates between threat of shaming and actual shaming

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- Differentiates between threat of shaming and actual shaming
 - → In this talk: focus on threat of shaming

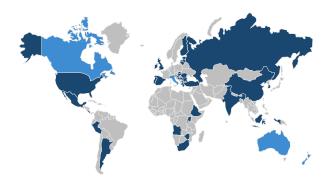
Outline

- 1. Context and Data
- 2. Findings
- 3. Reflection

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Shaming Widely Used for Tax Enforcement



Source: Own depiction.

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Shaming is widely used despite lack of empirical evidence

- ▶ 50% of OECD tax administrations can use shaming
- ▶ and 90% thereof used this power in 2015 (OECD 2017)



Source: If you don't pay these taxes, expect a troupe of drummers at your door, 2016, Wall Street Journal.

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Feature 2: shaming is a new action

- ► Slovenian parliament adopted shaming law in 2012
- prior to that only classical enforcement
- ▶ introduction of shaming = large shift in social incentives

Feature 3: shaming policy focuses on tax delinquents

- shaming depends on level of tax debt
- ► tax debt important part of enforcement problem OECD: undisputed tax debt >10% of annual tax revenue Slovenia: tax debt = 5.1% of GDP
- behavioral response shows up in tax debt in admin data

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Feature 4: shaming policy was announced

- shaming starts 4 months after adoption of shaming law
- between adoption and implementation: threat of shaming
- timing allows to separate threat of shaming & actual shaming

Public Shaming in Slovenia

Covers all taxpayers with tax debt older than 90 days > € 5000

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Shaming list published monthly on the website of the tax admin

- ► Compiled on the 25th of each month
- Published on the 10th of the following month (no updating)

Administrative Data

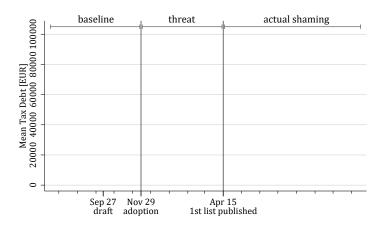
Linked administrative panel data 2012-2013

- payment records: tax type, due date, payment date, amount
- main variables from tax records: taxable income, income tax
- ▶ background characteristics (individuals & legal persons)
- balance sheet items for a sub-sample of corporations
- information on insolvency

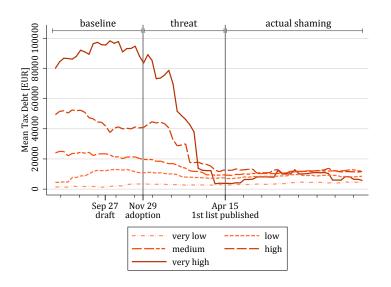
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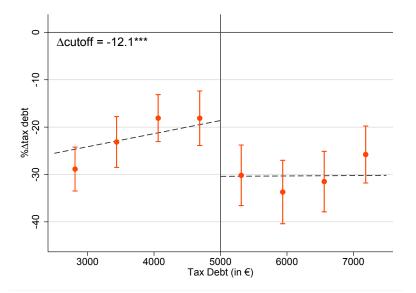
Finding 1: Corporations Reduce Debt to Avoid Shaming



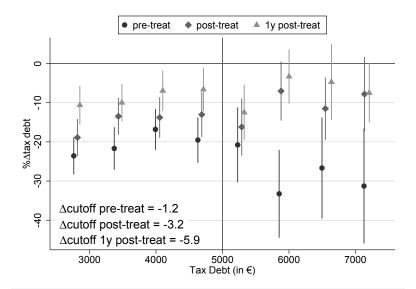
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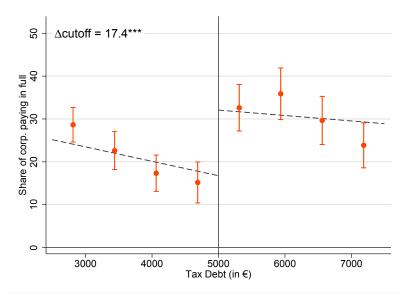
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Placebo Test



Finding 2: Corporations Pay Tax Debt in Full

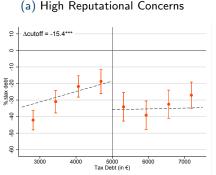


Finding 3: Stark Heterogeneity Among Corporations

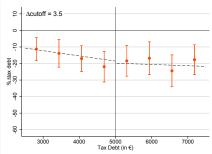
Average effect is driven by firms with high reputational concerns

- sellers to end customers (such as those in tertiary sector)
- non-exporters (only serve domestic market)

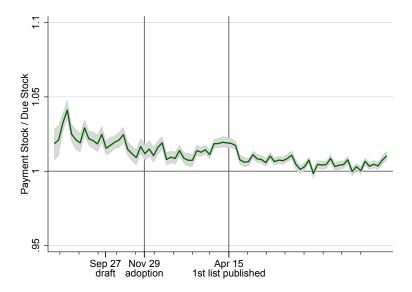
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(b) Low Reputational Concerns



Finding 4: Negligible Contagion



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What We Found

We have shown: social incentives matter for compliance

- ► Threat of shaming is very effective
- Works on both corporations and the self-employed (paper)
- Small impact of actual shaming with threat in place (paper)
- Shamed taxpayers are unable to pay instead of unwilling (paper)

What This Implies

Focusing on tax revenues, shaming = cost-effective measure

Focusing on welfare, policy might have adverse effects:

- ► can impair relationship b/w tax admin and taxpayer
- can cause default of credit constrained taxpayers
- can increase avoidance and evasion
- can lower investment and economic growth

Should Shaming Belong to Tax Admins' Tool Box?

Normative question!

- 4 issues are important for an optimal design:
 - 1. high visibility of shaming threat
 - 2. careful design of threshold
 - 3. don't shame too often to keep the audience interested
 - 4. reintegrate shamed taxpayers quickly

Thank you!

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APPENDIX

How Does Tax Debt in Slovenia Arise?

Self-assessment regime for corporations & the self-employed (but withholding for employees)

 \rightarrow Focus on corporations and the self-employed

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Classical tax debt collection measures unchanged

Shaming List in Slovenia

Non-payers legal persons - search by alphabet

Taxpayers in insolvency proceedings

(taxpayers against which bankruptcy or arrangement proceedings have been initiated)

Taxpayers that are not in insolvency proceedings

(taxpayers against which bankruptcy or arrangement proceedings have not been initiated)



Timing of Shaming Policy

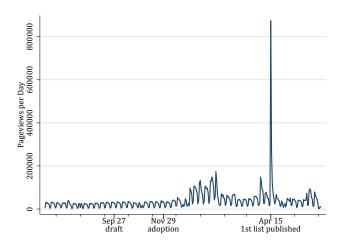


Taxpayers might respond after two events:

- ▶ adoption of law: shaming policy becomes certain
 - ⇒ threat of shaming
- ▶ publication of first shaming list: shaming becomes effective ⇒ actual shaming

High Visibility of the Shaming Policy

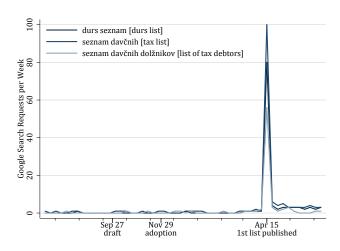
(a) Website of the Tax Administration: Page Views





High Visibility of the Shaming Policy

(b) Google Searches





Payment Reminder (1/2)



Payment Reminder (2/2)

Na univerzalni plačilni nalog - UPN se obvezno vpiše koda namena plačila. Za plačila obveznih dajatev se uporablja koda TAXS. Seznam kod namenov plačila je objavljen na spletnih straneh UJP http://www.ujp.gov.si. Pri izpolnjevanju podatkov je v vseh primerih potrebno vpisati kodo BIC banke prejemnika, ki je za plačilo davkov BSLJSIZX.

Podatki iz knjigovodske evidence:

Vrsta obveznosti	Vplačilni podračun	Sklic	Znesek
44 PPIZ od zaposlenih pri PO	SI56011008882000003	19 14780534-44008	273,31
44 PPtZ za zaposlene pri PO	SI56011008882000003	19 14780534-44008	156,04
44 Zamudne obresti - ZPIZ	SI56011008882000003	19 14780534-44008	2,54
45 PZDV od zaposlenih pri PO	SI56011008883000073	19 14780534-45004	112,14
45 PZDV poškodbe-pokl.bolezni PO	SI56011008883000073	19 14780534-45004	9,34
45 PZDV za zaposlene pri PO	SI56011008883000073	19 14780534-45004	94,55

DAVČNA TAJNOST

1/2



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Exploit tax debt history for **pre-treatment shaming probability** = % of days taxpayer would have been shamed on Jan.1–Nov.28, 2012

$$\mathsf{shaming}\;\mathsf{prob}_i = \frac{1}{D} \times \sum_d^D \mathbb{1}\left[\mathsf{old}\;\mathsf{tax}\;\mathsf{debt}_{i,d} > \mathsf{5000}\right]$$

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Difference-in-Differences with policy based treatment intensity (Rajan/Zingales 1998, Finkelstein 2007)



Regression Framework: Threat of Shaming

%
$$\Delta tax \ debt_{i,t} = \alpha + \beta_1 shaming \ prob_i \times Dthreat_t$$

 $+ \beta_2 shaming \ prob_i + \beta_3 Dthreat_t$
 $+ \gamma ln(X_{i,2011}) + \delta_i + \varepsilon_{i,t}$

- \triangleright β_1 : percent impact of shaming threat on tax debt
- Dthreat_t: indicates when shaming law was adopted but not yet implemented
- \triangleright δ_i : taxpayer fixed effects
- \triangleright $X_{i,2011}$: vector of controls



Finding 1: Corporations Reduce Debt to Avoid Shaming

