Opening the Black Box - Determinants of Tax Morale in Africa

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1 Introduction

A country's ability to efficiently mobilize its national resources is a topic that has recently been gaining traction in the discussion surrounding development; it provides governments with the funds needed to "invest in development, relieve poverty and deliver public services directed toward the physical and social infrastructure required to enhance long term growth" (OECD 2013)

Ever since the Monterrey Consensus was adopted in 2002, in which countries recognized the importance of raising domestic revenues, development aid has been increasingly shifting from direct financial assistance to improving tax systems and national resource management. Unfortunately, up to this date, tax systems still attract relatively little international assistance and "estimates based on OECD data suggests that currently around 0.1% of Official Development Assistance (excluding IMF) goes to support the development of tax systems in developing countries (OECD 2015).

One malady plaguing developing countries is tax evasion and tax avoidance; whereby tax evasion "in general refers to illegal practices to escape from taxation", whereas tax avoidance "in contrast, takes place within the legal context of the tax systems, that is individuals or firms take advantage of the tax code and exploit "loopholes", i.e. engage in activities that are legal but run counter to the purpose of the tax law (GTZ 2011).

High levels of tax evasion lead to a misallocation of resources and hinder the ability of the government to invest in the provision of public goods. Therefore, understanding the rationale behind tax evaders becomes essential to national development and state building. Traditionally, the standard way to explain tax compliance has been the economics-of-crime approach, which assumes a rational taxpayer maximizing his or her utility by balancing the risk of detection and punishment with the benefit of tax evasion. Today, this approach is increasingly regarded as too narrow to fully explain tax compliance, and many argue for the need to include social factors, which are said to explain why people conform to paying taxes even in the absence of strong deterrence mechanisms. These social factors constitute and influence the individual's "intrinsic motivation to pay taxes," hereafter referred to as tax morale, by increasing moral costs of tax evasion and thus increasing tax compliance. This link has been increasingly studied and strong evidence has been established that tax morale influences individual tax compliance. The majority of the studies focus on developed countries and only few studies investigate the determinants of tax morale in developing countries. Since tax systems are embedded in national historical events and the cultural particularities, "the existence or creation of a universal and 'objectively' good system of taxation becomes implicitly impossible" (Nerre 2006) and highlights that tax culture is specific to regions and countries and influenced by the interaction of actors and cultural values. On the other hand, there might be universal values, such as condemning corruption and feelings of trust that have a direct influence on tax morale across cultural boundaries.

The purpose of this paper is to fill the existing gap in research by contributing a study of tax morale in African countries and investigates whether the commonly identified determinants of tax morale also satisfactorily explain this sentiment in African countries, thereby contributing to expanding the limited existing research in the field of tax morale by investigating a geographical area that has been largely neglected. It further aims to provide specific findings to African policymakers, which could be used to derive customized policy recommendations.

Our data comes from the Afrobarometer, The paper is organized as follows: Chapter 2 provides a review of the literature, illustrating the conceptual evolution of tax morale and the commonly associated determinants of tax morale; chapter 3 describes the data and methodology, chapter 4 presents the results, its interpretation and discussion; and chapter 5 concludes the study.

2 Literature Review

This chapter reviews the most influential literature about tax morale. We briefly review Allingham and Sandmo's model of income tax evasion (1972) before discussing how the narrative of tax morale developed over time, how tax morale is defined, what factors are said to determine tax morale and why we make the case that these determinants need to be tested in the context of African countries.

2.1 The Conceptual Evolution of Tax Morale

In 1972, Allingham and Sandmo presented a formal model explaining tax evasion as negatively correlated with the probability of detection and the degree of punishment. According to their model, rational individuals should report virtually no income. Their model turned out to have little explanatory power and failed to account for the high degree of tax compliance in some countries, despite their low level of deterrence. This puzzle of tax compliance is only solvable using alternative theories, empirical findings, and calls for the need to consider other non-economic factors, including psychological, moral and social. Shortly after Allingham and Sandmo published their model, which was influenced by the economics-of-crime approach, Spicer and Lundstedt (1976) acknowledged that the decision of tax compliance is not solely based on sanctions but also on attitudes and norms. Tax compliance is thus "not only a function of opportunity, tax rates, probability of detection and so on, but of each individual's willingness to comply, shaped by tax morale" (Torgler 2007, 77). Tax morale is often defined as "the existence of an intrinsic motivation to pay taxes" (Cummings et al. 2009; Torgler 2005; Torgler and Schneider 2009). Over the years several studies shed light on tax morale and find strong evidence that tax morale indeed influences tax compliance (Alm and Torgler 2006; Dulleck et al. 2012; Maciejovsky, Schwarzenberger, and Kirchler 2012; Molero and Pujol 2012). Tax compliance therefore seems to be not explainable solely by the level of enforcement, but partially by tax morale. What factors then determine tax morale?

2.2 Determinants of Tax Morale

Currently, tax morale remains the underdog in explaining tax compliance and "most studies treat 'tax morale' as a black box without discussing or even considering how it might arise or how it might be maintained" (Feld and Frey 2002). Not surprisingly then, the analysis of tax morale as a dependent variable remains a rather novel topic in tax compliance literature. The relatively few studies aiming to determine what influences tax morale find that factors such as trust in government, the level of corruption, interactions with other taxpayers and tax administrators, tax burden, perception about benefits of public spending, social norms, detection, and punishment all determine tax morale and hence influence tax compliance. Trust in government and/or government officials is one of the classic factors said to influence the tax compliance behavior of individuals (Torgler 2002; Torgler 2003; Torgler and Schneider 2009). If people have no faith that their taxes are being fairly collected and spent, their desire to comply with applicable taxes is lowered. Similarly, corruption undermines tax morale by promoting a feeling of tax injustice; leading individuals to feel entitled to evade the taxes of an unfair system. Related to this feeling of injustice are interactions between taxpayers, which subsequently further influence and potentially erode or increase tax morale. Individuals who know of someone avoiding their taxes are found to have lower tax morale than others (Torgler 2005), whereas the knowledge that others are paying their taxes correspondingly can increase tax morale. This suggests that there might be a "positive snowball effect" (Frey and Torgler 2007; Lewis 1982), whereby taxpayers' tax morale increases if they perceive others to be more compliant. Tax administrators also form an important figure in determining tax morale; when tax officials treat individuals with respect, their tax morale is enhanced (Bohnet and Frey 1994; Feld and Frey 2003). In addition, the perception of the tax burden seems to have an impact on tax morale: according to a study concerning Latin America (Torgler 2005), over 46 percent of respondents stated a high tax burden to be a reason for tax evasion. Based on the author's findings, self-employed individuals are especially prone to developing anti-tax feelings, as taxes are typically more visible to them and affect them more directly, which results in lower tax morale. At the same time, individuals' tax morale might also be influenced by their perception of received benefits, in the form of public goods and services. Torgler suggests that there is a direct input-output relation, where individuals compare money paid with benefits received. An additional relevant factor can be fiscal knowledge, which increases tax morale by influencing the perception of received benefits. Better-educated taxpayers are more knowledgeable about tax law and fiscal connections, and ultimately may be better equipped to see the connection between paying taxes and receiving benefits (Lewis 1982). Furthermore, strongly established social norms (Ajzen and Fishbein 1980; Lewis 1982) play a big role in determining the change of tax morale over time. Social dynamics- such as taxpayer interaction- become customary in the long-term, resulting in attitudes that become social norms. Consequently, what becomes central to complying with official laws is not the regulation in itself, but the justification for doing so. When a social norm dictates that allocating tax money into personal projects is morally acceptable, as opposed to giving it to the tax administration, the aforementioned 'positive snowball effect' might not be so easy to attain. Traxler (2010) finds that conditional cooperation is a characteristic inherent in taxpayers, in the sense that they condition their compliance to the behavior of the larger group. Traxler and Winter (2009) provide evidence of the existence of social sanctions, for example for an individual who cheats on their taxes when complying is the norm. If this is the case, the logical implication is that there is a need to realign social norms with tax regulations.

2.3 Tax Morale in Africa

write a few paragraphs about Africa

3 Method

This study uses a regression analysis to assess the determinants of tax morale in Afria. The following chapter provides a comprehensive explanation about the methods used. We first substantiate our research design by indicating which method was chosen and why before providing information about the participants. In the operationalization section we show how we instrumented our variables, before discussing the analysis procedures we used to process, describe and test our data. This chapter ends with a section discussing the limitations and delimitations of the methods used.

3.1 Design

A regression analysis is used to investigate the determinants of tax morale in Africa, utilizing cross-sectional survey data from the Afrobarometer Survey ("Afrobarometer"). Our conceptual framework is based on the determinants of tax morale in developed countries, whereby:

$$TaxMorale_{i} = \alpha_{i} + \beta_{1}TrustinGovernment/PublicOfficials_{i} + \beta_{2}LevelofCorruption_{i} + \beta_{3}interactions with other tax payers_{i} + \beta_{4}tax burden_{i} + \beta_{5}detection and punishment_{i} + \beta_{5}SocialNorms_{i} + \epsilon_{i}$$

$$(1)$$

 $TaxMorale_i$ is a measure of the degree to which the respondent i believes the tax department always has the right to make people pay taxes. $TrustinGovernment/PublicOfficials_i$ is a measure ... $LevelofCorruption_i$ is ... $Interactions with other tax payers_i$ is ... $tax burden_i$... $SocialNorms_i$.. $Detection and punish ment_i$ *... $epsilon_i$ denotes a vector of control variables that include the gender, religion and ... ** of the respondent. Based on the assumptions of our framework we formulate the following hypothesis:

 $H_1: The same determinants have a positive effect on tax compliance in Africa \ H_0: The determinants have no impact on tax morale in Africa$

3.2 Data Selection

In order to test our hypothesis, we make use of data from the Afrobarometer, an "African-led, non-partisan survey research project that measures citizen attitudes on democracy and governance, the economy, civil society, and other topics" ("Afrobarometer"). The Afrobarometer's main donors for the survey rounds 5 and 6 (data on round 6 are not available yet) included the Mo Ibrahim Foundation, the Swedish International Development Cooperation Agency, the Department for International Development, the United States Agency for International Development, as well as the World Bank. who conducts the survey, show some figure, sample per country? something

3.3 Operationalization

In this section, we describe the specific methods employed and how they measure the selected variables, thereby discussing the appropriateness of the instrument, providing information about the measurement characteristics of the instruments, and information about the scoring of the scales. Here it may be useful to recall the conceptual framework presented earlier:

$$TaxMorale_{i} = \alpha_{i} + \beta_{1} TrustinGovernment/PublicOfficials_{i} + \beta_{2} LevelofCorruption_{i}$$

$$+ \beta_{3} interactions with other tax payers_{i} + \beta_{4} tax burden_{i}$$

$$+ \beta_{5} detection and punishment_{i} + \beta_{5} Social Norms_{i} + \epsilon_{i}$$

$$(2)$$

3.3.1 Tax Morale

Tax Morale is instrumented by a statement that asks "The tax department always has the right to make people pay taxes" and is measured from "Strongly Disagree", "Disagree", "Neither Agree or Disagree", "Agree" to "Strongly Agree".

include summary statistic

acknowledge shortcomings of the question We will further discuss possible limitations of survey-generated information about tax morale in the "limitations and delimitations" section. For now, the reader may bear in mind that measuring tax morale is a complex task regardless of the method, because it is a construct – a non-tangible phenomenon that needs an indirect form of measurement to be studied. **elaborate**

3.3.2 Control Variables

We include **insert number** control variables in our model that provide information about gender, religion, country the respondent resides in, **include** % **of the distribution per variable***

3.4 Analysis Procedure

As illustrated in the previous section, we have identified certain characteristics as determinants of the approach needed to make meaningful assertions concerning the relationship between our explanatory variable and our dependent variable.

When a dependent variable has more than two categories and the values of each category have a meaningful sequential order where a value is indeed 'higher' than the previous one, then you can use ordinal logit.

3.5 Limitations and Delimitations

The following section is dedicated to acknowledging potential limitations and delimitations of the study, thereby addressing possible skepticisms and doubts concerning ??

4 Results and Discussion

This chapter presents the results and discussion of our analysis. We devote one section to discuss the results of the regression analysis, including appropriate robustness checks, before interpreting and discussing the statistical results.

4.1 Regression Analyses

4.2 Discussion

5 Conclusion

References

"Afrobarometer." http://www.afrobarometer.org/.

Ajzen, I., and M. Fishbein. 1980. *Understanding Attitudes and Predicting Social Behavior*. Englewood Cliffs, NJ: Prentice-Hall.

Allingham, Michael G., and Agnar Sandmo. 1972. "Income Tax Evasion: A Theoretical Analysis." *Journal of Public Economics* 1 (3-4): 323–38. doi:10.1016/0047-2727(72)90010-2.

Alm, J., and Benno Torgler. 2006. "Culture Differences and Tax Morale in the United States and Europe." *Journal of Economic Psychology* 27: 224–46.

Bohnet, I., and B.S. Frey. 1994. "Direct-Democratic Rules: The Role of Discussion." KYKLOS 47 (3): 341-54.

Cummings, Ronald G., Jorge Martinez-Vazquez, Michael McKee, and Benno Torgler. 2009. "Tax Morale Affects Tax Compliance: Evidence from Surveys and an Artefactual Field Experiment." *Journal of Economic Behavior and Organization* 70 (3): 447–57.

Dulleck, Uwe, Jonas Fooken, Cameron Newton, Andrea Ristl, Markus Schaffner, and Benno Torgler. 2012. "Tax Compliance and Psychic Costs: Behavioral Experimental Evidence Using a Physiological Marker." *CREMA Working Paper Series*. Center for Research in Economics, Management; the Arts (CREMA). http://ideas.repec.org/p/cra/wpaper/2012-19.html.

Feld, L.P., and B.S. Frey. 2002. "Trust Breeds Trust: How Taxpayers Are Treated." *Economics of Governance* 3: 87–99.

———. 2003. "The Tax Authority and the Taxpayer - An Exploratory Analysis." http://citeseerx.ist.psu.edu/viewdoc/download?doi=10.1.1.200.8641&rep=rep1&type=pdf.

Frey, B.S., and Benno Torgler. 2007. "Tax Morale and Conditional Cooperation." *Journal of Comparative Economics* 35: 136–59.

GTZ. 2011. Tax Evasion and Tax Avoidance in Developing Countries.

Lewis, A. 1982. The Psychology of Taxation. Oxford: Martin Robinson.

Maciejovsky, Boris, Herbert Schwarzenberger, and Erich Kirchler. 2012. "Rationality Versus Emotions: The Case of Tax Ethics and Compliance." *Journal of Business Ethics* 109 (3): 339–50.

Molero, Juan Carlos, and Francesc Pujol. 2012. "Walking Inside the Potential Tax Evader's Mind: Tax Morale Does Matter." *Journal of Business Ethics* 105 (2): 151–62.

Nerre, Birger. 2006. "Culture and Economics: The Concept of Tax Culture." *Intereconomics/Review of European Economic Policy* 41 (4): 189–94.

OECD. 2013. Draft Principles for International Engagement in Supporting Developing Countries in Revenue Matters.

———. 2015. "Strenghtening Tax Systems to Mobilise Domestic Resources in the Post-2015 Development Agenda."

Spicer, M., and S.B. Lundstedt. 1976. "Understanding Tax Evasion." Public Finances 31 (2): 295–305.

Torgler, Benno. 2002. "What Do We Know About Tax Morale and Tax Compliance?" International Review of Economics and Business 48: 395–419.

———. 2003. "Tax Morale and Institutions." Center for Research in Economics, Management and the Arts.

——. 2005. "Tax Morale in Latin America." Public Choice 122: 133–57.

——. 2007. Tax Compliance and Tax Morale: A Theoretical and Empirical Analysis. Northhamption MA: Edward Elgar Publishing Ltd.

Torgler, Benno, and Friedrich Schneider. 2009. "The Impact of Tax Morale and Institutional Quality on the Shadow Economy." *Journal of Economic Psychology* 30 (2): 228–45.

Traxler, C. 2010. "Social Norms and Conditional Cooperative Taxpayers." European Journal of Political Economy 26: 89–103.

Traxler, C., and J. Winter. 2009. "Survey Evidence on Conditional Norm Enforcement." Max Planck Institute for Research on Collective Goods.