

State Capacity and Tolerance towards Tax Evasion: First Evidence from Romania

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ABSTRACT

We investigate the level of tolerance towards tax non-compliance and the informal economy in Romania using a sample of 250 respondents. This variable is determined by a complex set of latent variables that include but is not limited to state capacity social and business norms the perception of non-compliance and the perception of distributive justice. We find that our respondents are intolerant towards tax evasion and the informal economy but the level of intolerance is relatively mild. Using a partial least squares path modeling approach we also find that a weak state capacity and the perception of lack of distributive justice increases the level of tolerance. The perception of tax evasion stemming from media reports and the respondents' own self-enhancement bias combine to push the level of tolerance lower.

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1. INTRODUCTION

Romania failed to collect thirty-nine percent of its projected value added tax (VAT) revenue in 2015 according to Ziarul financiar (18 February 2019) who cites MEDIAFAX and a rapport of the European Commission. Although this figure is down from thirty-eight percent in 2014 Romania remains the European Union country with the largest VAT collection deficit ahead of Slovakia (twenty-nine percent) and Greece (twenty-eight percent). In 2013 tax evasion amounted to sixteen percent of GNP (about twenty-two billion dollars) up from nine percent in 2000 (Ilie2014). Other mass media outlets and Romanian academics alike cite these figures multiple times.

The figures however are not earth-shattering. Romania is not the only offender when it comes to tax evasion and/or the informal economy. Nor is it the worst offender. There are other European countries such as Slovakia Malta Lithuania Greece and Italy whose names make the headlines and who also have a significant informal economy in the neighborhood of twenty- to twenty-two percent of the GDP (The Local2016). The informal economy also known as the shadow economy represents a part of the economy outside the reach of the government: it is not monitored regulated and most importantly it is not taxed (Ianole-Călin et al.2017).

The reporting of these statistics is not necessarily a momentous revelation if it were not for its ominous tone that puts the story in the context of a broader apocalyptic fresco. Apocalyptic media coverage is not something new nor is it something afflicting Romania alone.

In Romania more than anywhere else the level of collective outrage over the political and economic performance of the government seems to be maintained at a pitch fever level. In the end it does not matter much whether this signals the involvement of the media in the political process or if it merely represents a cultural phenomenon: the emerging picture is one of dismal government competence and tax evasion spinning out of control. The more important question however seems to be whether the reporting is indicative of the true perceptions and attitude Romanians have towards the informal economy; and towards evading and avoiding taxes.

Media coverage refers to two related yet distinct aspects: on the one hand there is state capacity, as evidenced by the ability of the government to collect tax revenues (Tilly1978;Mann2012;Rogers and Weller2014). On the other hand there is tax evasion and the informal economy which are driven by cultural and social attitudes and indirectly by the ability of the state to enforce tax collection (Wenzel2005; Fukuyama2014;Cullis and Lewis1997;Frey1997;Torgler2005;Spicer and Becker 1980;Becker et al.1987;Kinsey and Grasmick1993;De Juan et al.1994;Roberts and Hite1994; Cialdini et al.1991).

This particular issue is highly relevant given the challenges faced by all Eastern European countries in managing tax reform in order to modernize their public sector and boost the economy (Wyslocka and Verezubova2016; S'lusarczyk2018;Tsindeliani et al.2019). There are still significant economic and social differences between the former communist countries of Eastern Europe and the rest of the European Union and Romania does not compare very favorably in this context. One would also expect that there are differences among Eastern European countries themselves based on their unique culture and history. There are however shared elements owing to the geography and political history of the region. At stake is the consolidation of a public system based on trust and efficiency that would allow further integration and harmonization with the rest of Europe.

We set out to investigate the level of tolerance towards tax evasion and the informal economy and its determinants in the context of post-communist Romania. Our research question leads to a three-pronged approach. First what is the true perception of state capacity and tax evasion? We believe that the perception of state capacity has an important role to play because it signals the extent to which the state is able and willing to honor an implicit social contract to deliver the public goods that are commensurate with tax collection; and it shows the extent to which the state is truly capable of imposing significant penalties on those who are bent on evading taxation (Alm et al.1992;Feld and Frey2007). In a first step we attempt to measure the perception of state capacity and the perception of tax evasion. We use these results as explanatory variables of the general level of tolerance towards noncompliance and the informal economy.

In the second step we measure the general level of tolerance towards noncompliance and the informal economy in Romania. The media depicts rampant tax evasion but common sense suggests that this coverage could be biased. Our attempt to survey individual attitudes towards tax evasion and the informal economy in a systematic manner clarifies the issue.

In a third and final step we investigate the factors that influence the level of tolerance towards tax evasion and the informal economy. We posit that the perception of state capacity and tax evasion must be an important determinant but clearly it is not the only one. Individual attitudes toward tax compliance and the informal economy are shaped by a complex set of factors that are influencing each other. Individual psychological traits represent the core mechanism that underpins individual behavior (Wenzel2005;Feld and Frey2007;Wenzel2004). Individuals develop their own world-view and attitudes informed by beliefs about social justice and the perception of social norms and practices (Richardson2008;Tyler1990).

We make two specific contributions in this paper. We survey attitudes towards tax compliance and its determinants in Romania something that no other scholars have done to our knowledge. We also focus on the perception of state capacity with its direct and mediated impact on the tolerance to tax evasion using a Partial Least Square path modeling approach. Our research adds to the literature on tax evasion in general and to that on tax evasion in post-communist Eastern Europe in particular notwithstanding the institutional and cultural differences between Romania and the other post-communist neighbors. As almost all Eastern-European countries have embarked on programs aimed at reforming and improving their tax systems it is critical to embrace the most appropriate strategy to increase the level of compliance as explained next.

We use a questionnaire to survey 250 respondents in order to estimate nine variables of interest (some of which are latent variables): five predictors three mediators and one outcome variable. The perception of state capacity the extent to which tax evasion is considered a minor infraction the extent to which tax evasion is considered socially unacceptable the extent to which tax compliance is considered a civic duty and the extent to which noncompliance is perceived as driven by a lack of distributive equity are predictor variables. The perception of noncompliance the extent to which compliance is perceived to be driven by fear of penalties the level of tolerance towards creative business and accounting practices aimed at evading taxation are mediating variables; and the level of tolerance towards noncompliance and the informal economy is the outcome variable. We use gender and age as control variables. The nine variables of interest and the two control variables are part of a structural equation model estimated by a partial least square regression using WarpPLS and R.

In the first stages of our investigation we find that our respondents perceive the state as relatively weak and tax evasion as moderate. Noncompliance and the informal economy are perceived as driven by lack of distributive equity. Overall it is considered that noncompliance is not a minor infraction and is not socially acceptable. Compliance is perceived as a civic duty and the level of tolerance towards noncompliance and the informal economy appears relatively low but the sentiment is not as strong as expected.

Following the implementation of our PLS model we find that the perception of state capacity is inversely related to the level of tolerance towards noncompliance and the informal economy but the direct relationship is not statistically significant. This finding is consistent with our expectations. The level of tolerance towards creative business and accounting practices aimed at evading taxation is the strongest predictor of the tolerance towards noncompliance and the informal economy and has the largest effect size as well.

Among the more unexpected results we find that the perception of tax evasion is inversely related to the level of tolerance towards noncompliance and compliance driven by fear of penalties is in fact increasing the tolerance towards tax evasion. Three of the latent variables used in the model act as either partial and in some cases total mediators.

The results suggest that our respondents might be experiencing a self-enhancement bias when exposed to the relentless coverage of tax evasion and poor government performance portrayed in the mass media. We also conclude that at least in Romania where social capital is relatively lacking the path to fostering social trust and citizenry is in promoting civic engagement. The government bureaucracy will arguably be more successful at shaping attitudes when using a softer touch rather than the coercive power at its disposal.

The above findings are indeed intriguing but one has to keep in mind that the study presented here is exploratory in nature. It relies on a sample that might appear small at first. Nevertheless we employ a methodology that is largely non-parametric and can compensate for any potential selection bias and the relative smallness of the sample. For such an exploratory study the PLS-PM methodology applied to 250 observations still delivers robust results as long as one is aware of its limitations and refrains from sweeping generalizations. We hope that in the future as more data will become available the scope of this type of investigation will be extended and additional evidence will corroborate the findings presented here.

This paper is organized as follows The next section discusses state capacity and its relationship to tax compliance. Section3discusses the importance of state capacity and how its perception can influence the level of tolerance towards tax evasion. Section4 discusses the role of social norms and the importance of individual beliefs about social justice and civic mindedness. Section5 presents the data and methodology. Section6 presents the results. Section7 attempts to interpret our empirical findings and Section8 concludes.

2. A QUESTION OF STATE CAPACITY

State capacity matters because taxation represents one of the fundamental functions of the state (Tilly1978). In general one defines state capacity as the ability to concentrate power in order to implement public policy and deliver public goods (Mann2012;Rogers and Weller2014).

The role of a capable state includes but is not limited to: maintaining an exclusive monopoly on violence and coercion; reducing information asymmetry and constraining elites; redistributing income; and delivering public goods. Among the more important public goods one counts the provision of national defense the maintenance of law and order the provision of education and healthcare and the construction and maintenance of the infrastructure system (Fukuyama2014). State capacity is essential in creating the necessary conditions for enabling widespread social trust and collective action with a minimum of transaction costs.

Taxation a core task of the state is one of the ‘least likely’ dimensions of state capacity to decline (Weyland1998). By the time that the ability to collect taxes is impaired other aspects of state capacity such as the provision of infrastructure building and education are already diminished.

The proportion of income tax revenue to total fiscal revenue is one of the most important metrics of state capacity because it requires a very special mix of skilled enforcement and voluntary compliance from taxpayers (Atkinson and Stiglitz1976;Soifer2008). It is not hard to see that compliance is truly voluntary only when state authority is perceived as legitimate (Fukuyama2014). There are other forms of revenue collection that are important but they do not demand the high level of state capacity required by income tax collection. Successful VAT collection the hotly debated issue in the Romanian mass media is not necessarily indicative of a highly capable state because it requires little administrative effort and planning (Bird and Zolt2014;Lieberman2002).

On the other hand a significant VAT collection deficit represents a strong indication of low state capacity precisely because it is relatively easy to achieve. In Romania the relationship between income tax and VAT makes for a very interesting dynamic. Marginal tax rate on individual income in Romania was lowered from sixteen percent to ten percent (Trading Economics2019) among the lowest in the world. This makes income tax evasion not worth pursuing with the same intensity as is the case where the marginal tax rate on income stands at fifty percent. Relatively speaking VAT dodging becomes more attractive when income tax is low. In the context of a large natural economy a large informal market and a relatively weak state one ends up with a large VAT deficit.

A side question is whether the low marginal income tax rate represents an attempt to implement a bold supply-side fiscal policy or simply an indication of a government who concedes it would never be able to enforce a higher and more stringent tax rate. If the latter is true a low marginal tax rate on income leads to simply replacing one problem with another. This question however will not be pursued here as it would be extremely difficult to discriminate between a programmatic fiscal policy and one driven by a desire to find a stop-gap solution.

In Romania there is abundant anecdotal evidence suggesting that the state has a weak ability to build large infrastructure projects such as highways bridges etc. In the heart of the capital city Bucharest there are thousands of buildings who sustained major structural damage in the wake of three major earthquakes that occurred between 1977 and 1991 yet several decades later those buildings are still in a state of disrepair. The construction of major highways is lagging behind similar projects in other former communist bloc countries (McGrath2019;The Economist2011) and the relative cost of highway building is among the highest in Europe (Romania Insider2013).

The relative lack of state capacity however need not impact all dimensions equally. While in some respects the state might be relatively weak in others it might be relatively strong. Any attempts to measure the perception of state capacity needs to capture as many dimensions as possible. However the one measure that is consequential to our research is the ability to collect taxes.

Focusing on tax evasion in relation to state capacity is a highly relevant issue. Finding that the state is able to enforce taxation says little about other aspects of state capacity as argued earlier. Finding that the state is not able to enforce taxation means that the state is most certainly not able to deliver healthcare law and order and education. A dismal perception of state capacity might embolden people to dodge their taxes. A weak state unable to deliver on its end of the social bargain would be met with contempt by taxpayers (Alm et al.1992). Citizens have no reasons to give their money to a government who does little to make their life better (Feld and Frey2007). Moreover citizens have little to fear from a weak government that is a government not capable of enforcing its monopoly on coercion.

Following this line of argumentation we expect that the perception of state capacity correlates well with the tolerance towards noncompliance and the informal economy. At the same time we expect that the perception of a weak state also correlates well with the perception of tax evasion.

3. SOCIAL NORMS AND PERSONAL BELIEFS

It has been shown that the level of tax compliance is too high when compared to the level of tax enforcement. Evaluating the cost-benefit dynamic of tax compliance reveals that rational individuals should pay far less tax and engage in more tax evasion than they actually do (Alm et al.1992). Fear of penalties alone is simply not enough to explain why people comply. The key to this riddle is recognizing that compliance is determined by a significant number of intrinsic drivers. The important factors shaping individual attitudes towards tax compliance and the informal economy are represented by personal beliefs and social norms (Cullis and Lewis1997;Frey1997;Torgler2005).

Among the factors that determine one's personal tax ethics are beliefs about procedural fairness and social justice. There is significant consensus that procedural fairness is correlated with high tax morale. There is also solid evidence suggesting that individual tax ethics might be influenced by the overall level of distributive equity (Spicer and Becker1980;Kinsey and Grasmick1993;Becker et al. 1987). Lack of equity and lack of procedural fairness appear to have an adverse effect on tax morale (Wenzel2005;De Juan et al.1994;Roberts and Hite1994).

Social norms represent another powerful source of personal tax ethics. Individuals are norm-following creatures. Social and cultural norms are off-the-shelf heuristics for dealing with a majority of social interactions. One can easily argue that at their core they represent a reasonable approach to problem solving. Yet norms become institutionalized and invested with emotional and intrinsic value. Individuals end up following them not in pursuit of optimal social outcomes but for their own sake (Fukuyama2014;Cialdini et al.1991).

Obedying the norms of society including either paying or evading taxes comes naturally due to peer pressure identification with the values of a group or pure behavior emulation (Wenzel2004; Mullen et al.1992). Social norms have a distinct cross-cultural component. It matters where individuals have to pay their taxes (Richardson2008;Torgler and Schneider2007).

Romania has been in transition for almost three decades and it witnessed a radical turn of events in which a hyper-centralized command economy has been replaced with cut-throat market competition. The expectations of individuals have switched from the straitjacket of the authoritarian system to the apparent haziness of the liberal economy. A sub-segment of our research question focuses on the extent to which compliance is perceived as a

civic duty the extent to which noncompliance is perceived as socially unacceptable and the extent to which noncompliance is considered a minor infraction.

We also consider the level of tolerance towards business and accounting practices aimed at avoiding taxation. This variable is only one degree of separation removed from personal tax ethics and might reveal the implicit beliefs that individuals hold with respect to the legitimacy of market competition and capitalism in general.

4. DATA AND METHOD

Our research investigates the level of tolerance towards tax evasion and the shadow economy. We measure the perception of state capacity perception of tax evasion and several other variables as described above that are used in the framework of a PLS-SEM model as determinants of the level of tolerance towards tax evasion and the shadow economy.

We surveyed 250 participants who answered a 2018 online questionnaire. There is a total of seventy questions grouped into nine categories: (i) control variables: age gender education profession etc.; (ii) perception of state capacity (STATE_C); (iii) the extent to which noncompliance is perceived as a minor infraction (MINOR); (iv) the extent to which compliance is perceived as a civic duty (CIVICDTY) the extent to which noncompliance is perceived as driven by a lack of distributive equity (LackEqty) the extent to which tax evasion is perceived as not socially acceptable (NOTACPT) (vii) the perception of the extent of tax evasion (PERCEPNC) (viii) the extent to which compliance is driven by fear of penalties (FEAR_R); (xix) the level of tolerance towards business and accounting practices aimed at avoiding taxation (BUSINESS); (x) the level of tolerance towards noncompliance and the informal economy.

There are 110 male and 140 female respondents aged eighteen to over sixty years. Since 180 respondents are forty years and younger there is a slight bias towards females and younger respondents. The socio-economic background of the respondents is quite diverse including students self-employed individuals workers and employees of small and large corporations. Data on gender and age are used as control variables. We are well aware that gender and age differences might impact attitudes towards compliance (Vacca et al.2020). The vast majority of questions in the survey are on a five-point Likert scale where 1 represents a strong disagreement and 5 represents strong agreement.

The methodology for surveying the respondents and collecting the data including the items used in the measurement are taken from a survey on attitudes and behavior towards tax evasion and compliance implemented in Ireland in 2008/2009 by the Office of the Revenue Commissioners (the governmental structure responsible for tax administration and customs regime) (Walsh2012). This methodology has been implemented in Romania (Druică et al.2019). The questionnaire has been validated and its structure meets our needs.

Although self-selection bias is a legitimate concern our analysis is exploratory in nature. The convenience sample is sufficient in size to allow for a sound analysis of the data owing to the non-parametric nature of the methodology as explained next. Potential selection-biases are dealt with by using bootstrapping making for a robust methodology and results that are valid even with small size samples. Sample statistics are presented in (Supplementary Materials). The perception of noncompliance (PERCEPNC) appears moderate (Panel A); while some of the answers show a median of four the means are barely above three which represents the neutral level. This result does not appear to match the ominous pronouncements found in the mass-media on the subject of tax evasion. The strongest agreement is found when the respondents are asked whether there is a tax evasion culture. There is very weak support for the perception that tax evasion is up.

Respondents tend to disagree that tax evasion is a minor offense (MINOR) but not strongly (Panel B). The median equals two but the average is slightly higher than two relatively close to the neutral level.

There appears to be consensus that tax compliance is a civic duty (CIVICDTY) yet the sentiment that tax evasion is not socially acceptable (NOTACPT) is somewhat weaker (Panel C). The average response for the former is above four and the median equals four. The average response for the latter is barely larger than three and the median is three. This apparent inconsistency might be due to the way in which the questions are framed; or it might simply reflect inconsistencies in the beliefs of the respondents.

There are five questions pertaining to various aspects of state capacity (STATE_C) and the answers indicate that the state is perceived to be relatively weak (Panel D). The mean response is above two for all answers yet the median in some cases equals three. In this situation however even a neutral response might be indicative of an unflattering perception.

The extent to which distributive justice represents a driver of tax compliance (LackEqty) is summed up by two questions (Panel E). The answer for both of them averages a number very close to four while both medians equal four. Respondents agree that people evade taxation because they earn too little for how much they work

and have to pay too much tax for what they earn. In other words non-compliance is perceived as a consequence of lack of distributive equity.

Respondents' perceptions with respect to accounting and other business practices aimed at evading taxation (BUSINESS) are captured by six questions (Panel F). It appears that cooking the books is not condoned but the sentiment is not strong albeit consistent. The mean response for all six questions is slightly larger than two yet all medians equal two.

The extent to which tax compliance is driven by the fear of administrative or criminal penalties (FEAR_R) is summed up by four different questions (Panel G). The mean response is slightly lower than three. Fear does not appear to be an important driver of tax compliance. Fear of denunciation in particular appears of little concern to a majority of respondents. This is a very interesting result indeed. It suggests that the respondents either are not sensitive to extrinsic motivation such as external penalties or rewards or that the threat of penalties is not really a concern because the state is not capable of enforcing its own laws.

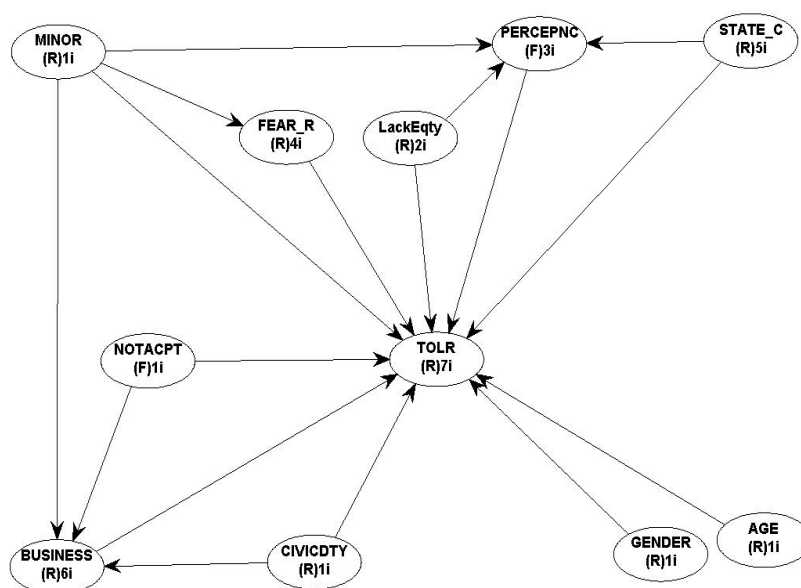
The level of tolerance towards noncompliance and the informal economy (TOLR) is captured by seven different questions (Panel H). The respondents seem to generally disapprove of tax evasion and informal practices albeit the sentiment is far from strong. In almost all cases the mean response is higher than two yet the median response is mostly two.

The findings shown in Panel A through H of Supplementary Materials are summarized in Table 1 according to each factor mentioned earlier. The first three variables show the median result obtained from a five-point Likert scale questionnaire. The remaining six variables show the median response of a five-point Likert scale questionnaire in the case of latent constructs obtained using factor analysis.

Table 1. Summary of questionnaire answers. The first three variables show the median result obtained from a five-point Likert scale questionnaire. The remaining six variables show the median response of a five-point Likert scale questionnaire in the case of latent constructs obtained using factor analysis.

Perception of Tax Evasion and/or Non-Compliance	Somewhat Agree
Is tax evasion a minor infraction? compliance a civic duty?	Somewhat disagree Is tax Agree
Is tax evasion unacceptable? Perception of state capacity of lack of equity	Somewhat disagree Relatively weak Perception Agree
Is compliance driven by fear of consequences? Endorsement of creative accounting	Somewhat disagree Disagree
Level of tolerance to tax evasion and informal economy	Disagree

Figure 1. The research model.



The essence of the findings so far can be further summarized in one paragraph: The respondents agree that compliance is a civic duty, perceive tax evasion as moderate perceive extant tax evasion as the result of a lack of

distributive justice perceive the state as relatively weak, somewhat reject business practices aimed at evading taxation and are relatively intolerant to noncompliance and the formal economy.

Next we propose a Partial Least Square path modeling methodology in which the outcome variable is represented by the individual level of tolerance to tax compliance and the informal economy (TOLR). We use five main predictors (State_C MINOR LackEqty CIVICDTY NOTACPT) and three mediators (PERCEPNC FEAR_R BUSINESS). Figure 1 shows the graphical representation of the hypothesized model.

Our approach represents a very loose and truncated adaptation of the theory proposed by Ajzen (Ajzen 1991; Madden et al. 1992). This is due in part to the fact that we could not measure accurately the intention to comply nor were we able to observe the actual behavior; and because there is mixed support in the literature for the theory of planned behavior in the case of tax evasion (Bobek and Hatfield 2003; Buchan 2005; Trivedi et al. 2005).

We hypothesize that the perception of poor state capacity (STATE_C) the extent to which tax evasion is viewed as a minor infraction (MINOR) and the perception of lack of distributive equity (LackEqty) would increase the level of tolerance towards noncompliance and informal practices (TOLR). We also hypothesize that the beliefs that compliance is a civic duty (CIVICDTY) and tax evasion is not socially acceptable (NOTACPT) would decrease the level of tolerance towards noncompliance and informal practices (TOLR).

Two mediating variables (PERCEPNC and BUSINESS) are expected to be directly related to TOLR for the reasons explained earlier. The latent construct FEAR_R which represents a proxy for the severity of tax enforcement is expected to have an inverse relationship to TOLR.

We hypothesize that the perception of tax evasion (PERCEPNC) would be directly related to STATE_C MINOR and Lack Eqty. MINOR is expected to be inversely related to FEAR_R because if tax evasion is perceived to be a minor infraction the fear of penalties would obviously be lower. The latent constructs CIVICDTY and NOTACPT are expected to be inversely related to BUSINESS. Finally we expect older individuals and women to have a lower tolerance to tax evasion (TOLR).

5. RESULTS

The PLS-PM model used here is estimating the impact of a system of predictors on the level of tolerance to non-compliance and the informal economy (Götz et al. 2010). The method works by maximizing the explained variance of the dependent latent variable that is tolerance to non-compliance and the informal economy (TOLSR) via an iterative algorithm based on ordinary least squares (OLS). Our PLS-PM model has been used in a way that is consistent with mainstream PLS methodology employed in the extant literature and has two parts: an outer/measurement model and an inner model. The outer model estimates the relationships among the latent and the corresponding manifest variables; the inner model which represents the regression proper estimates the relationships among predictors and outcome including control and mediating variables. We use WarpPLS 6.0 (developed by Scriptwarp Systems) because this software is among a handful of packages able to handle both linear and non-linear relationships (Kock 2016). The model has also been re-run in R (using PLSPM) and the results have been cross-checked against the results obtained with WarpPLS.

Table 2 reports the results of three metrics of reliability and internal consistency in the measurement stage (outer model): Cronbach's Alpha composite reliability and average variance extracted.

Table 2. Reliability measurement.

Variable	Cronbach's Alpha (* > 0.7)	Composite Reliability Index (* > 0.7)	Average Variance Extracted (* > 0.5)
STATE_C	0.872	0.816	0.577
PERCEPNC	0.737	0.466	0.485
LackEqty	0.843	0.626	0.728
BUSINESS	0.909	0.879	0.624
FEAR_R	0.898	0.847	0.688
TOLR	0.911	0.886	0.595

*- Recommended value.

All but one of Cronbach's Alpha values are above 0.8 suggesting a very good reliability and internal consistency (Fornell and Larcker 1981). With the exception of two constructs composite reliability is also above 0.7 reinforcing the conclusion of reliability and internal consistency (Nunnally and Bernstein 1994). With one exception average variance extracted is above 0.5 showing that a good portion of the variance in the items measured in our questionnaire have been captured by the corresponding latent constructs (Henseler et

al.2009;Hair et al.2012). Results below the critical values suggested in the literature might hint at the variance being the result of measurement errors.

Table3 shows the combined loadings and cross-loadings of all indicator items associated with their corresponding latent constructs. The values taken by factor loadings range from 0.656 to 0.884. These values are less than 0.7 in only two instances showing an overall good correlation between the indicator items and the latent variables. All values are highly significant ($p < 0.001$).

Table 3. Loadings and cross loadings.

	STATE_C	PERCEPN	LackEq	BUSINES	FEAR_R	TOLR
V1f_SOC	0.703	-0.093	-0.042	0.071	0.106	-0.074
V1a_MED	0.775	0.184	-0.171	0.002	-0.033	0.036
V1b_EDU	0.818	0.136	-0.048	-0.042	-0.043	0.044
V1c_LAW	0.782	-0.155	0.099	0.078	-0.023	-0.090
V1d_TRA	0.714	-0.096	0.174	-0.109	0.006	0.082
V7e_EVA	0.004	0.656	0.053	0.008	-0.110	0.008
V7i_VER	-0.030	0.768	-0.184	0.084	-0.014	-0.056
V5b_TEV	0.031	0.660	0.161	-0.106	0.126	0.058
V5e_TOO	-0.059	-0.029	0.853	0.143	0.091	-0.078
V5f_NOT	0.059	0.029	0.853	-0.143	-0.091	0.078
V9a_MAX	0.045	0.084	-0.013	0.766	-0.106	-0.252
V9b_TAX	-0.001	0.022	-0.044	0.790	0.002	-0.223
V9c_TAX	-0.049	-0.122	0.020	0.776	0.000	-0.029
V9d_FAI	-0.084	0.041	-0.031	0.798	0.030	0.138
V9f_FAI	0.016	-0.000	0.039	0.817	0.047	0.220
V9g_TAX	0.073	-0.024	0.029	0.791	0.022	0.129
V10a_FE	-0.009	0.069	-0.089	-0.018	0.743	0.092
V10f_FE	0.003	0.019	-0.013	-0.055	0.800	0.139
V10k_FE	0.005	0.001	0.047	0.034	0.883	-0.084
V10m_FE	-0.000	-0.076	0.040	0.030	0.884	-0.120
V8f_SOF	0.017	0.084	-0.048	-0.043	0.059	0.752
V8j_BUY	0.006	-0.016	0.050	-0.218	-0.009	0.783
V8k_PIR	0.029	0.048	-0.076	-0.136	0.114	0.819
V8e_KNO	-0.092	0.006	0.020	0.113	-0.115	0.723
V8i_BUY	0.022	-0.022	0.050	0.053	-0.048	0.713
V8l_DOD	-0.016	0.011	-0.014	0.125	-0.077	0.817
V8m_TAX	0.029	-0.110	0.025	0.118	0.063	0.787

Table4 shows the results pertaining to the discriminant validity of the measurement scales. The square roots of the AVEs are found on the main diagonal. These values are greater in all cases than the off-diagonal elements suggesting that there is no overlapping in the constructs captured by the individual items. Moreover we retain all latent variables in the model because all of the off-diagonal correlations are lower than the critical threshold value of 0.8 (Götz et al.2010;Henseler et al.2009; Esposito Vinzi et al.2010).

Table 4. Discriminant validity: Correlations among latent variables with sq. rts. of AVEs.

	STATE_C	PERCEPN	LackEq	BUSINES	FEAR_R	TOLR
STATE_C	0.760	-0.115	-0.127	0.025	0.162	0.074
PERCEPN	-0.115	0.696	0.263	-0.032	-0.036	-0.090
LackEq	-0.127	0.263	0.853	0.026	0.060	0.076
BUSINES	0.025	-0.032	0.026	0.790	-0.029	0.587
FEAR_R	0.162	-0.036	0.060	-0.029	0.829	0.080
TOLR	0.074	-0.090	0.076	0.587	0.080	0.772

The inner (structural) model: The structural model was estimated using Warp 3 procedure with bootstrapping. The algorithm converged after eight iterations. All VIF values are equal to or lower than 1.252 well below the critical threshold of 3.3 well within the acceptable range. The standardized root mean square residual (SRMR) is 0.07 which is below the maximum acceptable threshold value of 0.08 suggesting a good fit (Hu and Bentler1999). No Simpson's Paradox or bivariate causality directions were detected.

We are well aware that some potential limitations of our research might be the apparently small number of observations and a self-selection bias in our sample. After checking for common method bias we do not find any

factor explaining more than 50% of the variance in our data. No VIF values indicative of such problems are higher than 1.5.

Moreover as already mentioned the methodology used is non-parametric making inferences based on bootstrapping an approach that compensates for a possible selection bias. Our inferences might have been problematic had we used a standard statistical analysis. The robustness of PLS-PM analysis is well documented in the literature: one can draw valid results from relatively small samples (Willaby et al.2015).

Table5 reports the path coefficients and their significance levels the R2 and adjusted R2 values for the endogenous constructs and the effect sizes (similar to Cohen’s f2) of the outcome variable (TOLR). The overall model has a very good explanatory power with an R2 of fifty percent and an adjusted R2 of forty eight percent. With a value of 0.39 the Tenenhaus goodness of fit coefficient qualifies as large.

The predictors of all three mediators are statistically significant. LackEqty STATE_C and MINOR are statistically significant predictors of PERCEPNC explaining ten percent of its variance. Even better MINOR NOTACPT and CIVICDTY are statistically significant predictors of BUSINESS explaining thirteen percent of its variance. In fact MINOR is a statistically significant predictor of three mediators: PERCEPNC BUSINESS and FEAR_R. However the third mediator FEAR_R is the least explained with an R2 of only three percent.

All three mediators are statistically significant predictors of the outcome variable TOLR. The situation is more complex when it comes to the main predictors because when evaluating total effects one has to account separately for both direct and indirect effects.

Both LackEqty and STATE_C show total effects that are statistically insignificant. The lack of statistical significance is somewhat contrary to our expectations. NOTACPT shows a negative and statistically significant total effect (-0.251 p < 0.001). This effect can be deconstructed into a negative and statistically significant indirect effect (-0.082 p = 0.032) and a negative and statistically significant direct effect (-0.169 p = 0.003) suggesting that BUSINESS indeed acts as a partially mediating mechanism in the relationship between NOTACPT and TOLR.

Table 5. Path coefficients with p-values.

	Direct Effects			Indirect Effects	Total Effects	
	PERCEPNC	BUSINESS	FEAR_R	TOLR	TOLR	
PERCEPNC	-	-	-	-0.229 *** (<0.001)	-0.229 *** (<0.001)	
BUSINESS	-	-	-	0.464 *** (<0.001)	0.464 *** (<0.001)	
FEAR_R	-	-	-	0.110 * (0.039)	0.110 * (0.039)	
LackEqty	0.259 *** (<0.001)	-	-	0.036 (0.285)	-0.024 (0.353)	
STATE_C	-0.127 * (0.021)	-	-	0.047 (0.227)	0.076 (0.112)	
MINOR	0.139 * (0.012)	0.167 ** (0.004)	-0.173 *** (0.003)	0.147 ** (0.009)	0.173 * (0.003)	
NOTACPT		-0.176 ** (0.002)		-0.169 ** (0.003)	-0.082 * (0.032)	-0.251 *** (<0.001)
CIVICDTY		-0.175 ** (0.002)		-0.085 (0.088)	-0.081 * (0.034)	-0.166 * (0.004)
AGE				-0.178 ** (0.002)	-	-0.178 ** (0.002)
GENDER				-0.027 (0.333)	-	-0.027 (0.333)
R2/Adj R2	10.5%/9.5%	13.2%/12.1%	3%/2.6%	50.1%/48%	-	-
Goodness of fit				0.390 (large)	-	-

* p-value < 0.05; ** p-value < 0.01; *** p-value < 0.001.

CIVICDTY shows a negative and statistically significant total effect (-0.166 p = 0.004). However after controlling for the BUSINESS mediator the direct effect remains statistically insignificant (-0.085 p = 0.088) and a negative and statistically significant indirect effect (-0.081 p = 0.034 turns BUSINESS into a total mediator.

MINOR shows a positive and statistically significant total effect. The cumulative indirect effect of all three mediators associated with MINOR (that is PERCEPNC BUSINESS and FEAR_R) is positive yet not statistically significant (0.026 p = 0.338).

The impact of AGE on TOLR is negative and significant (-0.178 p = 0.002). According to our results however there is no significant relationship between GENDER and TOLR (-0.027 p = 0.333).

Table6 reports effect sizes. The tolerance towards accounting and other business practices aimed at avoiding and evading taxation (BUSINESS) has the highest contribution to the outcome variable (effect size equal to 0.273) suggesting that intervention on the former results in a medium effect on the latter (Cohen1988).

The perception of lack of equity (LackEqty) appears to have a small effect on the perception of tax non-compliance (PERCEPNC effect size equal to 0.069). The perception that tax evasion represents a minor infraction (MINOR) also has a small effect on the tolerance towards accounting and other business practices aimed at avoiding and evading taxation (BUSINESS) on the extent to which tax compliance is driven by fear of administrative or criminal penalties (FEAR_R) and on the outcome variable (effect sizes equal to 0.041 0.03 and 0.039 respectively).

The perception that tax evasion is not socially acceptable (NOTACPT) has a small effect on the tolerance towards accounting and other business practices aimed at avoiding and evading taxation (BUSINESS) and the outcome variable (effect sizes of 0.043 and 0.053). Finally the perception that tax compliance is a civic duty (CIVICDTY) has a small effect on the tolerance towards accounting and other business practices aimed at avoiding and evading taxation (BUSINESS effect size equal to 0.048).

All other effects are below the minimum threshold of 0.02 hence too weak to be practically relevant in spite of statistically significant relationships with the outcome variable.

Table 6. Effect sizes of direct effects.

	Effect Sizes of Direct Effects			
	PERCEPNC	BUSINESS	FEAR_R	TOLR
PERCEPNC	-	-	-	0.057 *
BUSINESS	-	-	-	0.273 **
FEAR_R	-	-	-	0.012
LackEqty	0.069 *	-	-	0.005
SATE_C	0.019	-	-	0.004
MINOR	0.017	0.041 *	0.030 *	0.039 *
NOTACPT	-	0.043 *	-	0.053 *
CIVICDTY	-	0.048 *	-	0.013
AGE	-	-	-	0.051 *
GENDER	-	-	-	0.001

Interpretation of effect sizes according to Cohen: 0.02 or less: too small; 0.02–0.15: small (*); 0.15–0.35: moderate (**); 0.35 or more: high (***)

6. FURTHER INTERPRETATION AND DISCUSSION

The perception of state capacity (STATE_C) does not appear to influence the level of tolerance to non-compliance and the informal economy (TOLR) either directly or through the mediation of the perception of tax evasion (PERCEPNC). The only notable impact is on the perception of non-compliance (PERCEPNC).

The weaker the state is perceived to be the stronger the perception of tax evasion. This result is consistent with expectations. However effect sizes are far too small to warrant any intervention.

The perception of tax evasion and/or non-compliance (PERCEPNC) appears to be inversely related to the level of tolerance towards tax evasion and/or non-compliance (TOLR). This result is not consistent with initial expectations. PERCEPNC only appears to act as a mediating factor for other latent variables but the indirect effects are either statistically insignificant (in the case of STATE_C) or only marginally significant (in the case of LackEqty).

After controlling for the mediator there is no statistically significant direct effect in the relationship between the perceived lack of distributive equity (LackEqty) and the level of tolerance towards tax evasion and the informal economy (TOLR). This result is not consistent with expectations. However the indirect effect is marginally significant: the more one perceives that noncompliance is driven by lack of distributive equity the stronger the perception of tax evasion which in turns decreases the level of tolerance towards tax evasion and the informal economy. Because the direct relationship between LackEqty and TOLR is not statistically significant PERCEPNC acts as a total mediator in the aforementioned relationship.

The more one disagrees that tax evasion is a minor infraction (MINOR) the lower the tolerance towards tax evasion (TOLR). This result is consistent with expectations. Moreover there are two mediated effects: The more one agrees that tax evasion is a minor infraction the less likely one is to perceive fear as a driver of compliance (FEAR_R); the explanatory power is small but the estimated coefficient is significant which in turn is directly related to the level of tolerance towards tax evasion. It is not entirely clear if the indirect effect is significant because there are three distinct yet simultaneous indirect effects that are lumped together. The more one agrees tax evasion is a minor infraction (MINOR) the more one will endorse cooking the books (BUSINESS) which in turn is directly related to the tolerance towards tax evasion (TOLR).

The more one perceives tax evasion as unacceptable (NOTACPT) the lower the level of tolerance towards tax evasion (TOLR). This result is consistent with expectations. There is also a mediated effect: The more one perceives tax evasion as unacceptable the lower the level of endorsement of creative accounting (BUSINESS) which in turn is directly related to the level of tolerance towards tax evasion (TOLR). In other words because both direct and indirect effects are significant BUSINESS is a partial mediator.

There is a total effect showing that the more one perceives compliance as a civic duty (CIVICDTY) the lower the level of tolerance towards tax evasion (TOLR). When controlling for BUSINESS as a mediator the indirect effect appears statistically significant: the more one perceives compliance as a civic duty the lower the level of endorsement of creative accounting (BUSINESS) which in turn is directly related to the level of tolerance towards tax evasion (TOLR). Moreover because the direct effect between CIVICDTY and TOLR is not statistically significant BUSINESS appears as a total mediator. This result is partially consistent with expectations.

Finally as already mentioned several times earlier the less one endorses creative accounting the less tolerant one is towards tax evasion and the informal economy. This result is fully consistent with our prior expectations.

7. POLICY IMPLICATIONS

This research allows us to consider several policy implications and intervention possibilities. These are mainly based on the direction of the relationships among variables statistical significance and effect size. As long as the effect size is larger than 0.02 there exists a real possibility for consequential intervention.

A first candidate is the perception of noncompliance. According to our findings the more acute this perception the lower the level of tolerance towards tax evasion and the informal economy. Although the effect size is small ($0.057 > 0.02$) it is worth pursuing a course of action that would sensitize the public to the economic and social consequences of tax evasion. It goes without saying that the process of sensitization has to be carried out tactfully and tastefully lest running the risk of transforming it into a caricature with adverse effects given the level of skepticism suspicion and even cynicism characteristic of post-communist Romania.

We have established that compliance driven by fear of penalties has an adverse impact on the level of tolerance towards tax evasion. The relationship is statistically significant yet the effect size is minuscule not warranting any intervention. If anything this finding reinforces the conclusion that the participants in the questionnaire appear to reject an extrinsic motivation for compliance.

Tolerance to business accounting practices aimed at avoiding and evading taxation represents a total mediator for the belief that tax compliance is a civic duty in its relationship with the level of tolerance to tax evasion; a partial mediator for the belief that tax evasion is not socially acceptable in its relationship with the level of tolerance to tax evasion; and perhaps a mediator for the belief that tax evasion is a minor offense.

There is a significant relationship between the level of tolerance to business accounting practices aimed at evading taxation and the outcome variable. The effect size of the relationship is moderate (0.273) therefore an effective intervention should act on reinforcing the belief that tax compliance is a civic duty and that tax evasion is not socially acceptable. Moreover one should also concentrate on dispelling the perception that tax evasion is a minor offense. All three variables have small effect sizes but within the suitable range for intervention.

Can one generalize the results presented here to other former communist Eastern European countries? Moreover if so are the conclusions and recommendations discussed above applicable in those countries? This is a legitimate question yet it is not easy to answer with a simple yes or no. Several of our findings are corroborated by similar research (Williams et al.2015; Ferrer-i-Carbonell and Gërkhani2016). Most work has been done on the relationship between the quality of institutions and tax morale. There is sufficient evidence to conclude that the perception of state capacity is linked to the level of civic engagement and tolerance towards the shadow economy (Torgler2011; Hug and Spörri2011) but this finding can be easily generalized to all social or liberal democracies; it is not specific to Eastern Europe alone. However unlike the studies cited here we find the direct relationship between the perception of state capacity and tolerance towards the shadow economy to be weak and insignificant. We explain this by citing the influence of mediating factors specific to the Romanian context.

As indicated in the introduction our paper takes a distinctive approach. Because we formulate very specific hypotheses and employ a very particular methodology our results are not directly comparable to those of other studies. We can only speculate that given the historical and cultural similarities between Romania and the other Eastern European countries some of our findings are probably indicative of what might be going on in Bulgaria Poland Slovakia Russia and the rest (Wyslocka and Verezubova2016;Tsindeliani et al.2019). At the same time the level of tax evasion and the relative size of the informal economy is not the same in all countries. Moreover (Torgler2003) finds that tax morale in Eastern European countries is higher than that present in the countries of the former Soviet Union. These considerations should have a sobering effect on one's inclination to make generalizations: perhaps there are other differences which are more nuanced and subtle but not yet documented.

8. CONCLUDING REMARKS

We set out to determine the true perception of state capacity the general level of tolerance towards noncompliance and the shadow economy and the factors that influence these attitudes. This is a topic of great importance for a country like Romania who seeks to modernize the public sector boost the economy and pursue a harmonious integration in the European Union.

After evaluating the questionnaire it is clear that our respondents perceive the state to be relatively weak and tax evasion moderate. These results, however do not seem to match the media hype. It can be argued that the media tends to exaggerate in a bid to capture an increasing audience with sensational revelations and shocking news. While there are no objective metrics for media histrionics and distortions one can make the case that the audience simply displays a healthy dose of skepticism. Or it could simply be that the audience is tuning out having become apathetic and perhaps even callous.

It is encouraging however to find that our respondents are somewhat intolerant of tax evasion and the informal economy. The level of intolerance appears to be higher than that suggested in the media yet not as high as one would hope. True the perception of a weak state makes the respondents more tolerant towards tax evasion but the effect is neither strong nor significant. It is the perception of tax evasion that pulls in the opposite direction. This is one of the most intriguing findings for our initial expectation was just the opposite. We had reasoned that constant exposure to reports of tax evasion and dismal state capacity would desensitize the audience and somehow signal that "everyone is doing it" making it appear commonplace and thus more acceptable. This is essentially an availability bias argument.

Instead the finding could be interpreted through the lenses of a representativity bias. If the instances showcased in the media are blown out of proportions such that they lie outside the range of everyday experience it is easier for individuals to dissociate themselves from such morally outrageous situations. This moral disentanglement is nevertheless subtle and nuanced. It is probably not the case that our respondents believe they are righteous and blameless; but perhaps they fathom that they are not as bad as the offenders portrayed in mass media. This attitude enables a credible absolution and probably mitigates any extant cognitive dissonance. In the words of (Klein and Epley2016) "Believing one "less evil than thou" seems more reliable and safer than believing one is "holier than thou." That is self-enhancement takes place in the process (Tappin and McKay2017).

Another interesting result shows that compliance driven by fear of penalties is in fact increasing the level of tolerance to tax evasion. Although the effect size is too small to matter from a practical perspective a direct implication of this finding suggests that in order to reduce the tolerance to tax evasion one should reduce the threat of penalties instead of increasing them. Our respondents seem to reject extrinsic motivation and instead embrace intrinsic motivation. This conclusion is consistent with the literature on tax evasion contending that the level of compliance is indeed much higher than warranted by the severity of administrative penalties and the monetary costs associated with noncompliance (Feld and Frey2007). Last but not least the perception of lack of distributive equity (through the mediation of perception of noncompliance) and civic mindedness pull in the same direction. There is consistency in our results: tax evasion is rejected and not considered a minor issue which is indeed consistent with the concept of civic duty.

Effect sizes are moderate and small and this allows policy intervention especially when it comes to sensitizing the public to the social and economic costs of tax evasion. Another possible direction for policy intervention is to reinforce the notion that tax compliance is a civic duty and that the alternative is not socially acceptable. All our findings suggest an architecture of choice that would reduce when possible the emphasis on coercion and punishment and promote civic engagement. However this is easier said than done.

We are reluctant to make sweeping generalizations and extend the applicability of our specific conclusions to all the countries of the former Eastern Bloc. Nevertheless it has become obvious that since the fall of the Berlin Wall one of the most formidable challenges of post-communist transition in Eastern Europe especially in Romania has been by far the promotion of civic engagement and the building of social trust.

Conflicts of Interest:

The authors declare no conflict of interest.

References:

1. Ajzen, Icek. 1991. The theory of planned behavior. *Organizational Behavior and Human Decision Processes* 50: 179–211.
2. Alm, James, Betty Jackson, and Michael McKee. 1992. Institutional uncertainty and taxpayer compliance. *The American Economic Review* 82: 1018–26.
3. Atkinson, Anthony Barnes, and Joseph E. Stiglitz. 1976. The design of tax structure: Direct versus indirect taxation. *Journal of public Economics* 6: 55–75.
4. Becker, Winfried, Heinz-Jürgen Büchner, and Simon Sleeking. 1987. The impact of public transfer expenditures on tax evasion: An experimental approach. *Journal of Public Economics* 34: 243–52.
5. Bird, Richard M., and Eric M. Zolt. 2014. Redistribution via Taxation: The Limited Role of the Personal Income Tax in Developing Countries. *Annals of Economics and Finance* 15: 625–83.
6. Bobek, Donna D., and Richard C. Hatfield. 2003. An investigation of the theory of planned behavior and the role of moral obligation in tax compliance. *Behavioral Research in Accounting* 15: 13–38.
7. Buchan, Howard F. 2005. Ethical decision making in the public accounting profession: An extension of Ajzen's theory of planned behavior. *Journal of Business Ethics* 61: 165–81.
8. Cialdini, Robert B., Carl A. Kallgren, and Raymond R. Reno. 1991. A focus theory of normative conduct: A theoretical refinement and reevaluation of the role of norms in human behavior. In *Advances in Experimental Social Psychology*. Amsterdam: Elsevier, vol. 24, pp. 201–34.
9. Cohen, Jacob. 1988. *Statistical Power Analysis for the Behavioral Sciences*, 2nd ed. Hillsdale: Routledge, ISBN 978-0-8058-0283-2.
10. Cullis, John G., and Alan Lewis. 1997. Why people pay taxes: From a conventional economic model to a model of social convention. *Journal of Economic Psychology* 18: 305–21.
11. De Juan, Ana, Miguel A. Lasheras, and Rafaela Mayo. 1994. Voluntary tax compliant behavior of Spanish income tax payers. *Public Finance Financial Publiques* 49: 90–105.
12. Druică, Elena, Călin Vâlsan, Rodica Ianole-Călin, Răzvan Mihail-Papuc, and Irena Munteanu. 2019. Exploring the Link between Academic Dishonesty and Economic Delinquency: A Partial Least Squares Path Modeling Approach. *Mathematics* 7.
13. Esposito Vinzi, Vincenzo, Wynne W. Chin, Jörg Henseler, and Huiwen Wang. 2010. *Handbook of Partial Least Squares: Concepts, Methods and Applications*. Heidelberg, Dordrecht, London and New York: Springer.
14. Feld, Lars P., and Bruno S. Frey. 2007. Tax Compliance as the Result of a Psychological Tax Contract: The Role of Incentives and Responsive Regulation. *Law Policy* 29: 102–20.
15. Ferrer-i-Carbonell, Ada, and Klarita Gërkhani. 2016. Tax evasion and well-being: A study of the social and institutional context in Central and Eastern Europe. *European Journal of Political Economy* 45: 149–59.
16. Fornell, Claes, and David F. Larcker. 1981. Evaluating structural equation models with unobservable variables and measurement error. *Journal of Marketing Research* 18: 39–50.
17. Frey, Bruno S. 1997. *Not Just for the Money*. Cheltenham: Edward Elgar Publishing.
18. Fukuyama, Francis. 2014. *Political Order and Political Decay: From the Industrial Revolution to the Globalization of Democracy*. New York: Macmillan.

19. Götz, Oliver, Kerstin Liehr-Gobbers, and Manfred Krafft. 2010. Evaluation of structural equation models using the partial least squares (PLS) approach. In *Handbook of Partial Least Squares*. Berlin and Heidelberg: Springer, pp. 691–711.
20. Hair, Joe F., Marko Sarstedt, Christian M. Ringle, and Jeannette A. Mena. 2012. An assessment of the use of partial least squares structural equation modeling in marketing research. *Journal of the Academy of Marketing Science* 40: 414–33.
21. Henseler, Jörg, Christian M. Ringle, and Rudolf R. Sinkovics. 2009. The use of partial least squares path modeling in international marketing. In *New Challenges to International Marketing*. Bingley: Emerald Group Publishing Limited, pp. 277–319.
22. Hu, Li-tze, and Peter M. Bentler. 1999. Cutoff criteria for fit indexes in covariance structure analysis: Conventional criteria versus new alternatives. *Structural Equation Modeling: A Multidisciplinary Journal* 6: 1–55.
23. Hug, Simon, and Franziska Spörri. 2011. Referendums, trust, and tax evasion. *European Journal of Political Economy* 27: 120–31.
24. Ianole-Călin, Rodica, Călin Vâlsan, and Elena Druică. 2017. The Many Shades of the Grey Economy in Romania. In *The Informal Economy: Exploring Drivers and Practices*. Edited by Horodnic I., Williams C. and Momtazian L. Abingdon: Routledge, pp. 25–40. ISBN 978-1-315-15801-3.
25. Ilie, L. 2014. How Romania Loses \$28 Billion To Tax Evasion Every Year. Reuters, cited by Business Insider. Available online: <https://www.businessinsider.com/r-romania-taxing-problem-will-still-trouble-incoming-government-2014-10> (accessed on 10 June 2020).
26. Kinsey, Karyl A., and Harold G. Grasmick. 1993. Did the Tax Reform Act of 1986 improve compliance? Three studies of pre-and post-TRA compliance attitudes. *Law Policy* 15: 293–325.
27. Klein, Nadav, and Nicholas Epley. 2016. Maybe holier, but definitely less evil, than you: Bounded self-righteousness in social judgment. *Journal of Personality and Social Psychology* 110: 60–674.
28. Kock, Ned. 2016. Advantages of Nonlinear over Segmentation Analyses in Path Models. *International Journal of e-Collaboration* 12: 1–6.
29. Lieberman, Evan S. 2002. Taxation data as indicators of state-society relations: Possibilities and pitfalls in cross-national research. *Studies in Comparative International Development* 36: 89–115.
30. Madden, Thomas J., Pamela Scholder Ellen, and Icek Ajzen. 1992. A comparison of the theory of planned behavior and the theory of reasoned action. *Personality and Social Psychology Bulletin* 18: 3–9.
31. Mann, Michael. 2012. *The Sources of Social Power*. New York: Cambridge University Press, ISBN 978-1-107-03117-3. McGrath, Stephen. 2019. World's shortest motorway built to shame a nation. BBC News, March 16.
32. Mullen, Brian, John F. Dovidio, Craig Johnson, and Carolyn Copper. 1992. In-group-out-group differences in social projection. *Journal of Experimental Social Psychology* 28: 422–40.
33. Nunnally, Jum C., and Ira Bernstein. 1994. *Psychometric Theory*, 3rd ed. New York: MacGraw-Hill.
34. Richardson, Grant. 2008. The relationship between culture and tax evasion across countries: Additional evidence and extensions. *Journal of International Accounting, Auditing and Taxation* 17: 67–78.
35. Roberts, Michael L., and Peggy A. Hite. 1994. Progressive taxation, fairness, and compliance. *Law Policy* 16: 27–48.
36. Rogers, Melissa Ziegler, and Nicholas Weller. 2014. Income taxation and the validity of state capacity indicators. *Journal of Public Policy* 34: 183–206.
37. Romania Insider. 2013. Highways in Romania, three times more expensive than in Bulgaria, price variations higher than in region. Romania Insider, August 29.

38. S'lusarczyk, Beata. 2018. Tax incentives as a main factor to attract foreign direct investments in Poland. *Revista»Administratie si Management Public «(RAMP) 30: 67–81.*
39. Soifer, Hillel. 2008. State Infrastructural Power: Approaches to Conceptualization and Measurement. *Studies in Comparative International Development 43: 231–51.*
40. Spicer, Michael W., and Lee A. Becker. 1980. Fiscal inequity and tax evasion: An experimental approach. *National Tax Journal 33: 171.*
41. Tappin, Ben M., and Ryan T. McKay. 2017. The Illusion of Moral Superiority. *Social Psychological and Personality Science 8: 623–31.*
42. The Economist. 2011. Romania's motorway blues. *The Economist*, August 16.
43. The Local. 2016. Italians are Europe's worst tax cheats (again...). *The Local*, September 7.
44. Tilly, Charles. 1978. *From Mobilization to Revolution*. Reading: Addison-Wesley Pub, ISBN 978-0-201-07571-7.
45. Torgler, Benno. 2003. Tax Morale in Transition Countries. *Post-Communist Economies 15: 357–81.*
46. Torgler, Benno. 2005. Tax morale and direct democracy. *European Journal of Political Economy 21: 525–31.*
47. Torgler, Benno. 2011. Tax Morale, Eastern Europe and European Enlargement. *Policy Research Working Papers*. Washington: The World Bank.
48. Torgler, Benno, and Friedrich Schneider. 2007. What Shapes Attitudes Toward Paying Taxes? Evidence from Multicultural European Countries*. *Social Science Quarterly 88: 43–470.*
49. Trading Economics. 2019. Romania Personal Income Tax Rate. Available online: <https://tradingeconomics.com/romania/personal-income-tax-rate> (accessed on 10 June 2020).
50. Trivedi, Viswanath Umashanker, Mohamed Shehata, and Stuart Mestelman. 2005. Attitudes incentives and tax compliance. *Canada Tax Journal 53: 29–61.*
51. Tsindeliani, Imeda, Sebastian Kot, Evgeniya Vasilyeva, and Levon Narinyan. 2019. Tax System of the Russian Federation: Current State and Steps towards Financial Sustainability. *Sustainability 11: 6994.*
52. Tyler, Tom R. 1990. *Why People Obey the Law*. New Haven: Yale University Press, ISBN 978-0-300-04403-4.
53. Vacca, Andrea, Antonio Iazzi, Demetris Vrontis, and Monica Fait. 2020. The Role of Gender Diversity on Tax Aggressiveness and Corporate Social Responsibility: Evidence from Italian Listed Companies. *Sustainability 12: 2007.*
54. Walsh, Keith. 2012. Understanding Taxpayer Behaviour New Opportunities for Tax Administration. *The Economic and Social Review 43: 451–75.*
55. Wenzel, Michael. 2004. An analysis of norm processes in tax compliance. *Journal of Economic Psychology 25: 213–28.*
56. Wenzel, Michael. 2005. Motivation or rationalisation? Causal relations between ethics, norms and tax compliance. *Journal of Economic Psychology 26: 491–508.*
57. Weyland, Kurt. 1998. From Leviathan to Gulliver? The Decline of the Developmental State in Brazil. *Governance 11: 51–75.*
58. Willaby, Harold W., Daniel SJ Costa, Bruce D. Burns, Carolyn MacCann, and Richard D. Roberts. 2015. Testing complex models with small sample sizes: A historical overview and empirical demonstration of what Partial Least Squares (PLS) can offer differential psychology. *Personal. Individ. Differ. 84: 73–78.*
59. Williams, Colin C., Ioana A. Horodnic, and Jan Windebank. 2015. Explaining participation in the informal economy: An institutional incongruence perspective. *International Sociology 30: 294–313.*
60. Wyslocka, Elz'bieta, and Tatsiana Verezubova. 2016. Taxation rules of polish and belarusian smallbusinesses. *Polish Journal of Management Studies 14: 226–37.*