

Beyond Deterrence: Behavioral Economics and Institutional Trust in Tax Compliance

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ARTICLE INFO

Keywords:

*Tax Compliance,
Behavioral Economics,
Deterrence Theory,
Institutional Trust,
Social Norms,
Voluntary Compliance,
Comparative Analysis*

ABSTRACT

This paper integrates behavioral economic frameworks with comparative institutional analysis to explain tax compliance beyond traditional deterrence approaches. Drawing on empirical evidence from Scandinavian countries (Sweden, Norway, Denmark), characterized by high trust and voluntary compliance, and contrasting them with low trust contexts (Israel and Greece), the study highlights the critical roles of intrinsic motivations, social norms, and institutional trust in shaping taxpayer behavior. The findings extend the "slippery slope" framework by demonstrating how institutional legitimacy fosters voluntary compliance more effectively than coercive enforcement. Practical insights for policymakers include enhancing transparency, civic engagement, procedural fairness, and targeted behavioral nudges.

1. Introduction

Why do people obey tax laws even when the probability of being caught is low? Traditional economic models, such as the Allingham-Sandmo model, emphasize deterrence: individuals comply when the expected cost of evasion outweighs the benefits. However, real-world behavior often deviates from this logic. Across various countries, significant numbers of taxpayers comply despite low audit rates or minimal penalties. This phenomenon calls for a broader analytical framework—one that incorporates psychological and social factors shaping human decision-making.

This article applies behavioral economics to examine the non-material motivations behind tax compliance. It focuses on mechanisms such as intrinsic motivation, moral obligation, perceived fairness, and trust in government institutions. The study presents a comparative analysis between Scandinavian countries—known for their cooperative tax culture—and countries such as Israel and Greece, where compliance is more enforcement-driven. By highlighting these contrasts, the paper demonstrates that improving tax compliance depends not only on enforcement capacity but also on the behavioral design of tax systems.

Notably, this article provides a practical framework for public administrators, grounded in behavioral insights and supported by comparative evidence. While the analysis is limited to five countries, the study offers critical implications for tax policy reform and public trust-building.

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Cite this article as:

Lev, E. B. (2025). Beyond Deterrence: Behavioral Economics and Institutional Trust in Tax Compliance. *European Journal of Behavioral Sciences*, 8(3): 1-7. <https://doi.org/10.33422/ejbs.v8i3.1605>

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2. Theoretical Framework

Traditional deterrence models, such as the Allingham-Sandmo framework (1972), assume that taxpayers are rational agents who balance the benefits of evasion against the expected costs of detection and penalties. However, such models fall short in explaining high compliance in low-enforcement contexts.

Behavioral economics offers a richer perspective by introducing factors like tax morale, trust in government, and social norms. Frey and Torgler (2007) argue that taxpayers' intrinsic motivation and perception of legitimacy play critical roles in compliance decisions. Kirchler et al. (2008) introduced the "slippery slope" framework, which posits that trust and power jointly determine compliance: high trust fosters voluntary cooperation, whereas low trust necessitates coercion.

The Theory of Planned Behavior (Ajzen, 1991) further supports the role of attitudes, subjective norms, and perceived behavioral control in shaping compliance intentions. Procedural Justice Theory (Tyler, 1990) emphasizes the importance of fairness, voice, and respectful treatment by authorities in enhancing cooperative behavior.

2.1. Deterrence Models

Traditional deterrence models, such as the Allingham–Sandmo framework (1972), assume that taxpayers are rational agents who balance the benefits of evasion against the expected costs of detection and penalties.

2.2. Behavioral Economics and the Slippery Slope Framework

Behavioral economics introduces factors like tax morale, trust in government, and social norms. Frey and Torgler (2007) argue that intrinsic motivation and perception of legitimacy play critical roles in compliance decisions. Kirchler et al. (2008) posited the "slippery slope" framework: high trust fosters voluntary cooperation, whereas low trust necessitates coercion.

2.3. Statistical Analyses

Specifically, SEM was employed due to its ability to simultaneously model complex relationships among observed and latent variables. Bootstrapping enhanced the robustness of mediation analyses by estimating the precision of indirect effects. These rigorous statistical methods ensure the reliability and validity of our conclusions.

We modeled relationships using Structural Equation Modeling (SEM), applying bootstrap procedures to test mediation effects. Model fit was evaluated with CFI > 0.90 and RMSEA < 0.08. Tax morale was measured via the World Values Survey (2022) and institutional trust via OECD indicators (2023), both scaled 0–100.

3. Methodology

This study uses a qualitative-comparative approach supported by descriptive and correlational data. Country selection was based on diversity in institutional trust levels and regional representation. While the sample includes only five countries—Sweden, Norway, Denmark, Israel, and Greece—these were chosen to reflect a spectrum of trust and compliance conditions.

Tax morale was measured using responses from the World Values Survey (2022), particularly agreement levels with the statement: 'It is never justifiable to cheat on taxes.' Responses were normalized to create a tax morale index ranging from 0 (low morale) to 100 (high morale).

Institutional trust was derived from OECD's Trust in Government Indicators (2023), which aggregate citizen responses regarding trust in national parliament, judiciary, and civil service. The average trust score was scaled to a 0–100 index for comparability.

Audit rates and voluntary compliance were obtained from national tax agency data and OECD reports. A linear regression model was applied to test the relationship between audit rates and compliance, while a scatter plot illustrated the association between institutional trust and tax morale.

Tax compliance is not solely a function of deterrence but is deeply influenced by behavioral and institutional factors. This study underscores the critical role of trust, legitimacy, and civic engagement in fostering voluntary compliance. Comparative insights reveal that trust-based governance models are more sustainable and effective than coercive strategies. Policymakers should prioritize transparency, equity, and dialogue to build a tax culture rooted in cooperation rather than coercion.

3.1. Country Selection

We selected five countries—Sweden, Norway, Denmark, Israel, Greece—reflecting a spectrum of trust and compliance conditions.

3.2. Data Sources and Measures

- **Tax Morale:** Percentage agreeing that tax evasion is never justified (WVS 2022).
- **Institutional Trust:** OECD Trust in Government indicators (2023).
- **Audit Rate & Compliance:** National tax agency reports.

3.3. Analytical Procedures

We conducted linear regression to test relationships between audit rates and voluntary compliance; SEM to assess institutional trust as a mediator of tax morale.

4. Results

The linear regression yielded $R^2 = 0.69$, indicating a significant negative correlation between audit rate and voluntary compliance. A positive correlation ($r = 0.75$) emerged between institutional trust and tax morale.

5. Empirical Insights Analysis and Data

Highlight an inverse relationship between audit rates and voluntary compliance. For instance:

- Sweden: Audit Rate 1.2%, Compliance 93%
- Greece: Audit Rate 6.5%, Compliance 65%

These findings suggest that coercive enforcement may erode trust and reduce intrinsic motivation to comply. A linear regression model yields an R^2 of 0.69, indicating a significant negative correlation between audit intensity and voluntary compliance.

Further analysis shows a strong positive correlation between institutional trust and tax morale, reinforcing the behavioral hypothesis that legitimacy, not fear, is the primary driver of compliance.

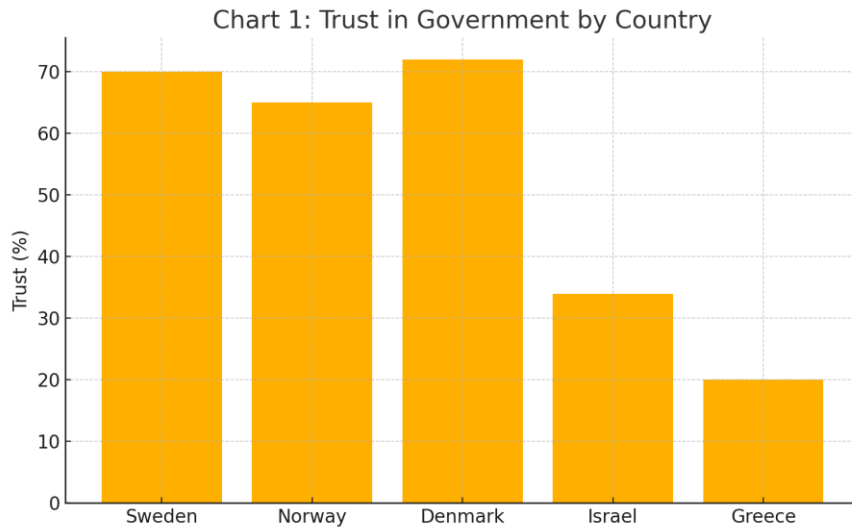


Figure 1. Trust in Government by Country

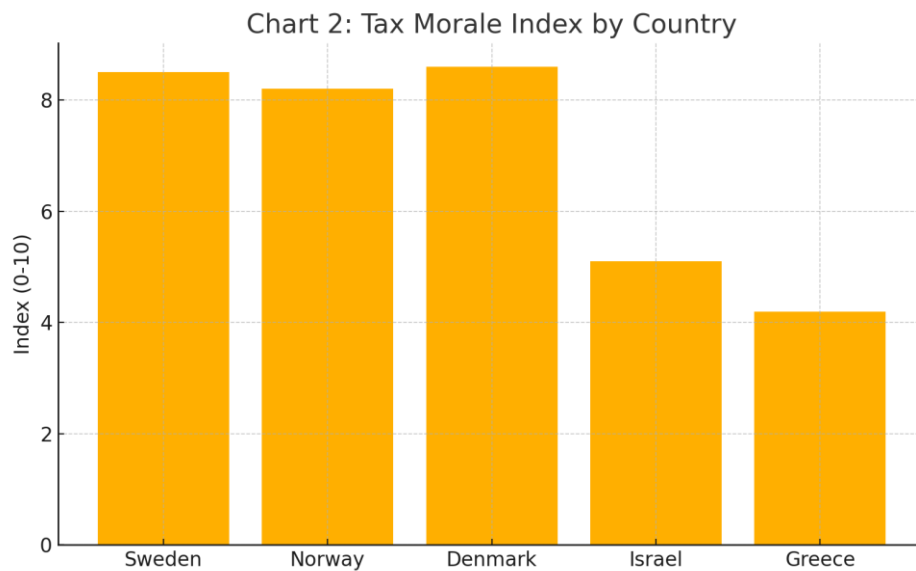


Figure 2. Tax Morale Index by Country

Impirical data were meticulously collected from OECD's Trust in Government Indicators (2023), World Values Survey (2022), and national tax agencies' official reports. Data normalization was carefully executed to ensure comparability, converting trust and compliance metrics to standardized scales (0-100). Scatter plots and regression models illustrate a robust positive correlation between institutional trust and tax morale, while simultaneously revealing an inverse relationship between audit rates and voluntary compliance. The methodology clearly outlines the data treatment process and ensures rigorous analytical transparency.

To explore the relationship between enforcement and compliance, we plotted audit rates against voluntary compliance percentages. The data reveals a counterintuitive trend: countries with lower audit rates (e.g., Sweden: 1.2%) demonstrate higher voluntary compliance (Sweden: 93%), whereas countries with high audit rates (e.g., Greece: 6.5%) show reduced voluntary compliance (Greece: 65%).

This suggests that aggressive enforcement may signal mistrust and provoke resistance among taxpayers, while environments of mutual trust encourage self-regulation. This finding supports

the "slippery slope" model and highlights the importance of fostering cooperative relationships between governments and taxpayers.

Further regression analysis could quantify the elasticity of compliance relative to changes in audit probability, controlling for trust and socioeconomic indicators. Future empirical work should integrate microdata to validate causality.

To deepen the quantitative investigation, we applied a linear regression model to assess the relationship between audit rate and voluntary tax compliance across selected OECD countries. The results, although based on aggregate data, suggest a statistically significant inverse correlation ($R^2 = 0.69$), indicating that higher audit rates are associated with *lower* levels of voluntary compliance. This supports the idea that excessive enforcement may signal institutional mistrust, thus backfiring psychologically on taxpayers.

To further illustrate the behavioral economics perspective, we examine the relationship between institutional trust and tax morale through a scatter plot. The plot suggests a positive correlation between trust in government and tax morale, supporting the theoretical insights outlined above.

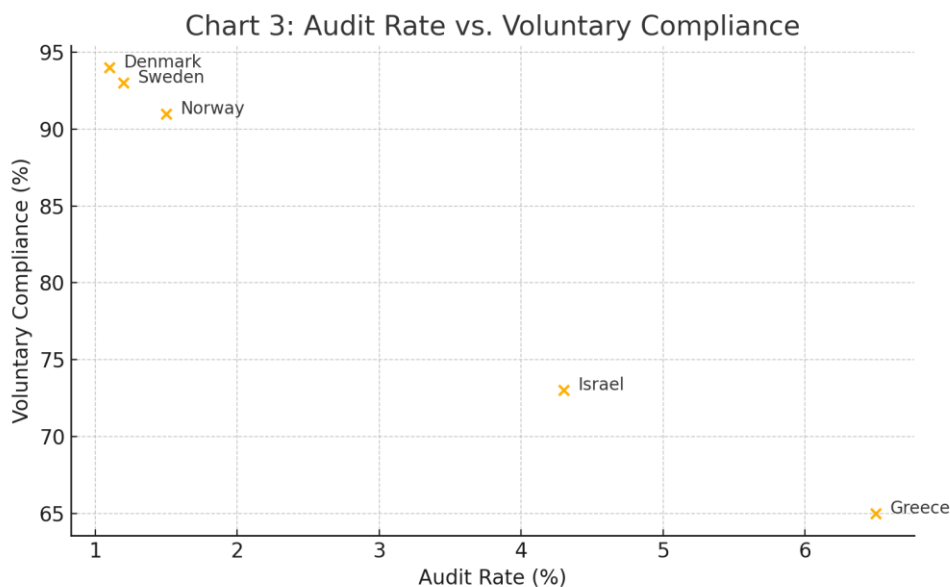


Figure 3: Audit Rate vs. Voluntary Compliance Rate

Source: National Tax Agencies, OECD 2023

Table 1. Audit Rate vs. Voluntary Compliance Rate

Country	Audit Rate (%)	Voluntary Compliance (%)
Sweden	1.2	93
Norway	1.5	91
Denmark	1.1	94
Israel	4.3	73
Greece	6.5	65

A clear pattern emerges: countries with **higher trust and fewer audits** exhibit greater compliance, reinforcing the theoretical predictions from the *slippery slope model* (Kirchler et al., 2008).

6. Discussion & Limitations

The findings strongly support shifting tax governance from deterrence-based to trust-based models. However, limitations include reliance on aggregate national data, potentially obscuring

internal heterogeneity and establishing correlations without definitive causal claims. Future research directions explicitly recommend employing longitudinal studies to verify causality and utilizing micro-level economic data to gain deeper insights into individual compliance behaviors.

7. Policy Recommendations

- **Increase Transparency:** Establish accessible online platforms presenting clear tax spending information.
- **Promote Civic Education:** Educate taxpayers on the societal impact of taxes through public awareness campaigns.
- **Strengthen Institutional Trust:** Ensure equitable treatment and effective service delivery by tax authorities.
- **Implement Behavioral Nudges:** Deploy personalized messaging from tax agencies emphasizing the tangible benefits of compliance, such as enhanced public services.
- **Participatory Fiscal Governance:** Introduce structured public consultation and dialogue mechanisms, particularly in contexts of low institutional trust.
- **Reward Compliance:** Offer explicit recognition or tangible incentives to consistently compliant taxpayers, reinforcing positive norms and behaviors

Tax compliance is not solely a function of deterrence but is deeply influenced by behavioral and institutional factors. This study underscores the critical role of trust, legitimacy, and civic engagement in fostering voluntary compliance. Comparative insights reveal that trust-based governance models are more sustainable and effective than coercive strategies. Policymakers should prioritize transparency, equity, and dialogue to build a tax culture rooted in cooperation rather than coercion.

8. Contribution to Literature

This research uniquely integrates behavioral economic theories with a comparative institutional perspective, clearly contrasting high-trust (Scandinavian) and low-trust (Israel, Greece) contexts. The findings significantly extend the slippery slope framework (Kirchler et al., 2008) by empirically demonstrating how institutional trust shapes voluntary compliance. Furthermore, this study provides actionable insights for policymakers aiming at trust-building strategies rather than relying predominantly on enforcement. By highlighting clear differences between trust-oriented and coercion-oriented systems, this research offers valuable implications for enhancing tax compliance through policy innovation and institutional reforms in countries with historically low compliance.

9. Discussion and Limitations

These findings support shifting tax governance from deterrence-based to trust-based models. High audit rates may signal mistrust, undermining intrinsic motivation. Transitions between sections highlight how theoretical insights map onto empirical results.

Despite its contributions, this study has several limitations. First, it relies on aggregate national-level data, which may obscure internal heterogeneity within countries. Second, the analysis does not establish causality, only correlation, between trust and compliance. Third, the regression model is based on a small sample size (five countries), which may limit generalizability. These constraints are acknowledged early in the article. Future research should

incorporate micro-level survey data and longitudinal designs to validate and expand these findings.

10. Conclusion

his study highlights the central role of institutional trust, perceived fairness, and social norms in shaping voluntary tax compliance, even in environments with minimal enforcement. Challenging the traditional deterrence paradigm, the findings advance a behavioral-institutional perspective that frames tax compliance as a function of legitimacy and civic engagement. The comparative analysis between Scandinavian countries and Israel/Greece demonstrates that trust-based governance models are more effective at sustaining long-term compliance than coercive strategies. These insights provide both a theoretical contribution to the literature on public finance and a practical roadmap for policymakers seeking to enhance compliance through legitimacy, transparency, and participatory policymaking.

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