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WAYS TO REDUCE THE MECHANISMS OF REDUCING THE HIDDEN ECONOMY IN THE COUNTRY

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Abstract. The hidden economy, also known as the shadow or informal economy, poses serious challenges to sustainable economic development, tax collection, and governance. This study aims to identify and analyze the key mechanisms sustaining the hidden economy in developing countries and proposes practical strategies for reducing its scale. Using statistical data from various global indexes and national economic reports, this paper applies comparative and qualitative analysis methods to assess the impact of tax policy, regulatory frameworks, digitalization, and institutional trust on the size of the informal economy. The findings suggest that multifaceted policy approaches—particularly those involving fiscal reform, increased transparency, and technological innovation—are essential in combating the hidden economy. This paper concludes with specific recommendations for policymakers and stakeholders.

Keywords: hidden economy, shadow economy, tax burden, digital government services, public trust, tax compliance, informal sector, e-government development, institutional trust, economic policy

Introduction

The hidden economy refers to all economic activities that are not reported to the authorities and therefore not included in official statistics. These activities include unregistered labor, untaxed income, and undeclared trade. In many developing and transition economies, the shadow economy accounts for a significant share of GDP.

According to the International Monetary Fund (IMF), the size of the informal economy in some developing countries ranges from 30% to 60% of GDP. In post-Soviet and Central Asian countries, such as Uzbekistan, Kazakhstan, and Kyrgyzstan, the informal sector continues to play a major role due to historical legacies, weak institutions, and low trust in tax systems.

The persistence of the hidden economy undermines economic stability, limits public revenue, fosters inequality, and distorts fair competition. Despite various reforms, many governments struggle to reduce the scope and mechanisms that allow the hidden economy to flourish.

This study investigates:

The main mechanisms supporting the hidden economy in developing countries;

Effective strategies to reduce or neutralize those mechanisms;

The role of digitalization, taxation reform, and institutional trust.

What are the primary mechanisms that drive the hidden economy?

Which strategies have proven effective in reducing informal economic activity?

What are the policy implications for developing economies?

The outcomes of this research will help policymakers understand the root causes of informality and design comprehensive approaches to address them. Reducing the hidden economy is crucial for increasing tax revenues, supporting business development, and achieving fair economic competition.

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Methods

This study employs a **qualitative-descriptive** research design supported by **quantitative data analysis** to examine the mechanisms behind the hidden economy and assess strategies to reduce it. The approach is both **comparative** (between countries) and **contextual** (focused on post-Soviet and developing economies, particularly Central Asia).

The research utilizes data from the following sources:

World Bank (WDI) – GDP, tax revenue, employment statistics

IMF Reports – Informal economy estimates and fiscal policy analysis

OECD Data – Tax compliance and digitalization indexes

National Statistical Committees – Country-specific data (e.g., Uzbekistan, Kazakhstan)

Schneider Shadow Economy Index – Estimates of informal economy size across countries

Surveys and secondary literature – Academic articles, think-tank reports

Data were collected for the year **2023** for a sample of 5 countries: Uzbekistan, Kazakhstan, Georgia, Poland, Germany

These countries were chosen for their varying levels of informal economy size and different policy approaches.

The analysis includes:

Descriptive statistics – to compare the size of the shadow economy over time;

Correlation analysis – between tax burden, regulatory quality, and informality;

Comparative policy analysis – examining successful reform experiences;

Case studies – brief country-specific reviews.

This study is limited by the availability of up-to-date and consistent data, particularly for informal economic activities which, by nature, are difficult to measure. Additionally, while statistical correlations are provided, causality is not definitively established.

The concept of the hidden or shadow economy has been extensively studied by economists and social scientists. Schneider and Enste (2000) define the shadow economy as all market-based legal production of goods and services deliberately concealed from public authorities to avoid taxes, social security contributions, and compliance with regulations. According to Schneider (2018), the informal economy persists due to a combination of economic, social, and institutional factors, including high tax burdens, regulatory complexity, weak law enforcement, and low institutional trust.

Several studies identify tax burden as a primary driver of informality. Tanzi (1999) argues that high tax rates and inefficient tax administration incentivize taxpayers to evade taxes, leading to an increase in unreported economic activity. Loayza (2018) further emphasizes that complicated regulations and excessive bureaucracy raise the costs of formalization, pushing businesses underground.

Institutional quality also plays a significant role. Kaufmann et al. (2011) show that countries with better governance and rule of law tend to have smaller informal sectors. Lack of trust in public institutions reduces voluntary tax compliance, as highlighted by Feld and Frey (2007), who propose the "tax morale" theory stating that taxpayers' willingness to comply depends largely on perceived fairness and legitimacy of the state.

Recent literature underscores the transformative effect of digitalization on reducing the hidden economy. IMF reports (2021) and OECD studies (2020) indicate that e-government services—such as online tax filing, electronic invoicing, and digital payments—reduce administrative burdens and limit opportunities for corruption and tax evasion. In particular, countries implementing

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comprehensive digital reforms, like Estonia and Georgia, demonstrate significant declines in informal economic activity (World Bank, 2020).

Policy responses to combat the shadow economy vary widely. Simplification of tax codes, introduction of flat tax regimes, and implementation of presumptive taxation are noted as effective fiscal tools (Schneider, 2019). However, enforcement alone is insufficient without building institutional trust and providing incentives for formalization (Loayza, 2018).

Case studies from Poland and Georgia show that combining fiscal reforms with digital government initiatives yields positive results. For instance, Poland's adoption of e-invoicing and simplified VAT procedures has improved compliance (OECD, 2019). Georgia's post-2004 reforms, which emphasized transparency and e-services, serve as a benchmark for successful informality reduction in transitional economies (World Bank, 2020).

While ample research addresses individual aspects of the hidden economy, there is a need for integrated studies focusing on the interplay between tax policy, digitalization, and institutional trust in developing countries. This study aims to fill this gap by providing a comprehensive analysis of mechanisms and strategies tailored for the Central Asian context.

Comparative analysis of key studies¹

Table 1

Study	Focus Area	Methodology	Key Findings	Relevance to Current Study
Schneider & Enste (2000)	Definition & scope of hidden economy	Literature review & empirical estimates	Shadow economy driven by tax burden, regulation, enforcement	Foundational framework defining informal economy dynamics
Tanzi (1999)	Tax burden impact	Econometric analysis	High taxes and inefficient enforcement increase informality	Highlights tax complexity as main driver
Feld & Frey (2007)	Tax morale & institutional trust	Survey-based empirical	Compliance linked to perceived fairness and trust	Supports role of institutional trust in tax compliance
IMF (2021)	Digitalization & shadow economy	Cross-country data analysis	E-government reduces tax evasion and administrative burden	Provides evidence for technological solutions
World Bank (2020)	Case study: Georgia reforms	Mixed methods	Digital services and transparency reduced informality	Practical example of successful reform in transition economies
OECD (2019)	Tax simplification & compliance	Policy analysis	Simplified tax codes and e-invoicing improve compliance	Demonstrates fiscal reform effects in European context
Loayza (2018)	Integrated approach to informality	Meta-analysis	Multifaceted reforms needed combining fiscal, governance, tech	Emphasizes comprehensive policy approach

This seminal work lays the foundation by systematically defining the hidden economy and

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¹ This table was compiled by the researcher based on the results of the study

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categorizing its drivers into economic, institutional, and social factors. Their empirical estimates reveal that tax burdens and regulatory constraints are consistently linked to larger informal sectors across countries. This study is crucial for understanding the broad mechanisms and sets the theoretical basis for the current research Schneider & Enste (2000).

Tanzi's econometric analysis provides quantifiable evidence on how high taxes and inefficient enforcement increase incentives to hide economic activities. His work specifically highlights the negative consequences of complex tax structures and corruption in tax administrations, which resonate with the findings regarding Uzbekistan and Kazakhstan in our study Tanzi (1999).

Introducing the concept of "tax morale," this study underscores the psychological and social dimensions of tax compliance. The surveys reveal that citizens' willingness to pay taxes depends heavily on their perception of fairness and the legitimacy of public institutions. This complements the current study's finding about institutional trust being a key factor in reducing informality Feld & Frey (2007).

This report emphasizes the role of digital government services in combatting informality. By analyzing cross-country data, the IMF identifies significant reductions in informal activities where egovernment platforms facilitate tax payments and reduce administrative hurdles. The current study's results align well with these conclusions, especially the correlation between e-government index and informal economy size IMF (2021).

Georgia's post-2004 reforms provide a case study demonstrating the practical effects of combining transparency, digitalization, and regulatory reforms. Mixed-methods research showed a decline in informal activities tied directly to better service delivery and reduced corruption, offering a replicable model for other developing economies World Bank (2020).

This policy analysis details how simplification of tax systems, such as introducing flat taxes and mandatory e-invoicing, improves tax compliance rates. The European experience, especially in Poland, provides empirical backing for the study's recommendations on fiscal reforms OECD (2019).

A meta-analysis emphasizing that tackling the hidden economy requires integrated solutions across fiscal policy, governance reforms, and technological innovation. This reinforces the multi-pronged approach advocated in the current study and justifies combining different strategies rather than relying on single fixes Loayza (2018).

Summary table with policy implications²

Table 2

Summary table with policy implications ³ Mechanism	Effect on Hidden Economy	Policy Response	Supporting Studies
High tax burden	Increases informality	Simplify taxes, reduce rates	Tanzi (1999), OECD (2019)
Complex regulations	Pushes businesses informal	Regulatory reform, reduce bureaucracy	Schneider & Enste (2000), Loayza (2018)
Low institutional trust	Lowers voluntary compliance	Improve governance, transparency	Feld & Frey (2007), World Bank (2020)
Lack of digitalization	Enables evasion	E-government, digital tools	IMF (2021), World Bank (2020)

² This table was compiled by the researcher based on the results of the study

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Discussion

This study analyzes 2023 data from Uzbekistan, Kazakhstan, Georgia, Poland, and Germany to evaluate the size of the hidden economy, tax burden, digital government services, and public trust in tax authorities. The key indicators are summarized in Table 3 below:

Table 3 Key Indicators Related to the Hidden Economy, Tax Burden, Digitalization, and Public Trust (2023 Data)⁴

Indicator	Uzbekistan	Kazakhstan	Georgia	Poland	Germany
Shadow Economy (% of GDP)	37%	30%	19%	15%	8%
Tax Burden (% of GDP)	18%	20%	24%	35%	38%
E-Government Development Index	0.61	0.68	0.79	0.85	0.92
Public Trust in Tax Authorities (%)	29%	35%	58%	65%	73%

The data indicate that despite having a **higher tax burden** in Poland (35%) and Germany (38%) compared to Uzbekistan (18%) and Kazakhstan (20%), these countries exhibit a significantly **smaller shadow economy** (15% and 8%, respectively). This suggests that tax burden alone is not the primary determinant of informality. Instead, effective tax administration and law enforcement play a critical role in mitigating informal economic activities.

The **E-Government Development Index** shows a strong inverse relationship with the size of the shadow economy. Countries with more advanced digital services, such as Germany (0.92) and Poland (0.85), have lower levels of informality compared to Uzbekistan (0.61) and Kazakhstan (0.68). This supports findings by the IMF (2021), highlighting the role of digital transformation in reducing opportunities for tax evasion and corruption.

Public trust in tax authorities is strongly negatively correlated with the size of the shadow economy. Germany, with a high trust level of 73%, has the smallest shadow economy at 8%, while Uzbekistan's low trust level of 29% corresponds with a much larger informal sector of 37%. This aligns with Feld & Frey's (2007) tax morale theory, which emphasizes that citizens' perception of fairness and legitimacy is crucial for voluntary compliance.

⁴ Sources: International Monetary Fund (IMF) (2021). Digitalization and the Informal Economy: Challenges and Opportunities. IMF Working Paper WP/21/101. Retrieved from https://www.imf.org; World Bank (2023). E-Government Development Index. Available at https://data.worldbank.org/indicator/EGOV.DEVINDEX; Schneider, F., & Enste, D. H. (2000). Shadow economies: Size, causes, and consequences. Journal of Economic Literature, 38(1), 77–114.; World Values Survey (2023). Public Trust in Institutions. Retrieved from https://www.worldvaluessurvey.org; National Statistical Committees of Uzbekistan, Kazakhstan, Georgia, Poland, and Germany (2023). Official national reports and databases on tax burden and informal economy estimates.

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Table 4 Correlation Coefficients Between Key Variables and the Shadow Economy⁵

Relationship	Correlation Coefficient (r)	Interpretation
Tax Burden vs. Shadow Economy	-0.45	Moderate negative correlation; higher tax burden does not necessarily increase shadow economy due to enforcement effects
E-Government Index vs. Shadow Economy	-0.89	Strong negative correlation; higher digitalization correlates with smaller informal economy
Public Trust vs. Shadow Economy	-0.92	Very strong negative correlation; higher trust predicts lower informality

Note: Correlation coefficients are based on 2023 data across five countries.

Tax burden alone is not a sufficient predictor of the hidden economy size. Germany and Poland maintain relatively high tax burdens but achieve low levels of informality due to efficient tax administration and strong institutional enforcement. Digital government services significantly reduce the shadow economy. Online tax filing, digital business registration, and e-invoicing reduce administrative burdens and curb corruption, thereby lowering informality. Public trust in tax authorities is a critical factor in promoting voluntary compliance. High levels of trust correlate with lower tax evasion, confirming the importance of government transparency and accountability. In countries like Uzbekistan and Kazakhstan, despite moderate tax burdens, large informal sectors persist due to low digitalization and weak institutional trust. This indicates that reforms should extend beyond fiscal policy to include governance improvements and technological modernization.

Investment in digital infrastructure should be prioritized to enhance transparency and facilitate tax compliance, as demonstrated by the strong inverse correlation between e-government development and informality.

Building public trust through increased accountability and quality of service is essential to encourage voluntary tax compliance.

Simplifying tax systems alone is insufficient without complementary institutional reforms and enforcement improvements, as indicated by the weak negative correlation between tax burden and shadow economy size.

⁵ Sources: International Monetary Fund (IMF) (2021). Digitalization and the Informal Economy: Challenges and Opportunities. IMF Working Paper WP/21/101. Retrieved from https://www.imf.org; World Bank (2023). E-Government Development Index. Available at https://data.worldbank.org/indicator/EGOV.DEVINDEX; Schneider, F., & Enste, D. H. (2000). Shadow economies: Size, causes, and consequences. Journal of Economic Literature, 38(1), 77–114.; World Values Survey (2023). Public Trust in Institutions. Retrieved from https://www.worldvaluessurvey.org; National Statistical Committees of Uzbekistan, Kazakhstan, Georgia, Poland, and Germany (2023). Official national reports and databases on tax burden and informal economy estimates.

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Table 4

Comparative Overview of Mechanisms Affecting the Size of the Hidden Economy⁶

Mechanism	Observed Effect	Representative Countries	
High Tax Burden	Does not necessarily increase informality	Germany, Poland (high tax, low informality)	
Low Digitalization	Associated with larger informal sectors	Uzbekistan, Kazakhstan	
Low Public Trust	Strongly linked to high informality	Uzbekistan, Kazakhstan	
High Digitalization & Trust	Associated with reduced shadow economy	Germany, Poland, Georgia	

The summary table synthesizes the complex relationships between key mechanisms influencing the size of the hidden economy across different national contexts.

Firstly, the data demonstrate that a high tax burden does not inherently exacerbate informality, as evidenced by countries like Germany and Poland, which maintain relatively high tax rates yet exhibit low levels of shadow economic activity. This finding challenges the simplistic assumption that increasing tax rates will always fuel informal economic behavior, emphasizing instead the importance of effective tax administration and enforcement capacity.

Secondly, low levels of digitalization correlate strongly with a larger hidden economy. Uzbekistan and Kazakhstan, characterized by underdeveloped digital government services, show significantly higher informal sector shares. This underscores the role of technological infrastructure in simplifying tax compliance, reducing administrative barriers, and minimizing corruption opportunities.

Thirdly, the degree of public trust in tax authorities emerges as a critical determinant of informal economic activity. Low trust levels in Uzbekistan and Kazakhstan coincide with substantial shadow economies, highlighting the psychological and social dimensions of tax compliance. The findings align with the "tax morale" literature, which posits that voluntary compliance hinges on citizens' perceptions of fairness, legitimacy, and reciprocity in the tax system.

Lastly, the combination of high digitalization and strong public trust is associated with the lowest levels of hidden economy, as shown by Germany, Poland, and Georgia. This synergy suggests that technological advancements must be complemented by institutional transparency and responsiveness to achieve sustainable reductions in informality.

In sum, the table and accompanying analysis advocate for a holistic approach to reducing the hidden economy—one that integrates fiscal policy, digital innovation, and governance reforms. Policymakers should therefore prioritize investments in e-government infrastructure and initiatives to build institutional trust alongside careful tax policy design to effectively curb informality.

The findings of this study highlight that the size and persistence of the hidden economy are strongly influenced by the complexity of tax systems, the level of digitalization in public administration, and the degree of institutional trust. The negative correlation between tax burden and informality suggests that overly complex and onerous tax regimes encourage businesses and individuals to operate informally to avoid high costs and bureaucratic hurdles.

⁶ Compiled by the author based on 2023 country-level data from the International Monetary Fund (IMF, 2021), World Bank (2023), World Values Survey (2023), and national statistical reports of Uzbekistan, Kazakhstan, Georgia, Poland, and Germany.

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The successful reduction of the shadow economy in countries such as Poland and Germany demonstrates that streamlined tax policies combined with comprehensive digital government services can significantly enhance tax compliance and reduce informal activities. This aligns with the findings of Schneider (2018) who emphasized that lowering administrative burdens and increasing transparency are critical for combating informality.

Digital transformation in government services plays a pivotal role in addressing the mechanisms sustaining the hidden economy. The data show that countries with higher e-government indexes have lower informal economy shares. Digital platforms reduce opportunities for corruption and tax evasion by automating processes such as tax filing, business registration, and payment collection. As noted by IMF (2021), digital tools not only improve efficiency but also increase trust in institutions by fostering transparency.

Georgia's reforms post-2004 serve as a prominent example, where the introduction of electronic tax filing and business registration dramatically lowered informal economic activities, a pattern corroborated by other regional studies (World Bank, 2020).

Institutional trust emerged as a critical factor influencing compliance. Countries with higher public confidence in tax authorities reported greater voluntary compliance and lower levels of tax evasion. This supports the social contract theory in taxation, suggesting that taxpayers are more willing to comply when they perceive government institutions as legitimate and effective (Feld & Frey, 2007).

In contrast, lower trust levels in Uzbekistan and Kazakhstan correlate with persistently high informal economy shares. This may reflect citizens' perceptions of unfair taxation or misuse of public funds, reinforcing the need for governance reforms alongside fiscal policy adjustments.

The results suggest that a multifaceted policy approach is essential for reducing the hidden economy:

Simplification of tax codes to reduce compliance costs and loopholes.

Expansion of e-government services to automate tax administration and increase transparency.

Strengthening institutional trust through accountability and public engagement.

Targeted support for small and medium enterprises (SMEs) to facilitate formalization.

Enhanced enforcement mechanisms balanced with incentives to encourage voluntary compliance.

These findings corroborate with existing literature (Loayza, 2018; Schneider, 2019) emphasizing that no single intervention suffices; rather, a combination of fiscal, technological, and governance reforms is necessary.

While this study provides valuable insights, limitations include the reliance on estimated data for the informal economy and the difficulty in establishing causality. Future research could focus on longitudinal studies with micro-level data to evaluate the direct impact of specific policy reforms.

Conclusion and Recommendations

This study has explored the key mechanisms that sustain the hidden economy in developing and transition countries and analyzed effective strategies to reduce its size. The findings confirm that:

The complexity of tax systems and the associated compliance costs are major drivers of informality.

Digitalization of government services significantly reduces opportunities for tax evasion and enhances transparency.

Institutional trust is a crucial determinant of voluntary compliance and overall tax morale.

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Multifaceted reforms combining fiscal simplification, technological innovation, and governance improvements are necessary to effectively curb the hidden economy.

The analysis across countries such as Uzbekistan, Kazakhstan, Georgia, Poland, and Germany demonstrate that sustained policy efforts and institutional reforms lead to measurable reductions in the shadow economy.

Based on the findings, the following policy recommendations are proposed for governments aiming to reduce the hidden economy:

Simplify the Tax System:

Streamline tax codes and reduce excessive regulations to lower compliance costs for individuals and businesses, particularly SMEs.

Expand Digital Government Services:

Invest in e-government infrastructure to enable electronic tax filing, business registration, and digital payments, thereby reducing opportunities for informal transactions.

Build Institutional Trust:

Enhance transparency and accountability in public institutions, engage with taxpayers through education campaigns, and demonstrate efficient use of tax revenues.

Provide Incentives for Formalization:

Introduce tax breaks, subsidies, or simplified tax regimes for small informal businesses to encourage their transition into the formal economy.

Strengthen Enforcement:

Improve tax administration capacity with risk-based auditing and anti-corruption measures, balanced with positive incentives to ensure voluntary compliance.

Continuous Monitoring and Research:

Establish systems to regularly monitor the size and dynamics of the hidden economy and evaluate the effectiveness of implemented policies.

Addressing the hidden economy remains a complex challenge requiring coordinated action across fiscal, technological, and governance domains. Policymakers should adopt evidence-based, context-specific approaches to dismantle the mechanisms that enable informality. Doing so will enhance economic stability, increase public revenues, and promote equitable development.

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