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Improving Mechanisms for Calculating and Collecting Property and Land Taxes From Individuals

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Abstract: Property and land taxes are vital sources of regional revenue in Uzbekistan, yet their collection efficiency remains below potential due to outdated systems and incomplete registries. While reforms and digital initiatives have slightly improved tax collection, Uzbekistan's efficiency still lags behind international benchmarks such as Germany and Kazakhstan, highlighting the need for modernized mechanisms. Previous studies have mainly addressed policy frameworks without offering empirical evaluations of digitalization and valuation reforms' practical impacts on tax revenues and compliance in Uzbekistan. This study aims to analyze the current calculation and collection mechanisms of property and land taxes, assess their deficiencies, and propose improvements based on international best practices. Findings show that digital tax platforms and revised valuation models increased tax collections by 10–15%, particularly in cities like Tashkent and Andijan, but challenges such as informal ownership, outdated cadastres, and low digitalization persist, especially in regions like Qashqadaryo. Using a mixed-methods approach combining qualitative legislative analysis and quantitative revenue data from 2020–2024, the study uniquely integrates international comparisons to tailor recommendations for Uzbekistan's context. Policy recommendations include implementing digital cadastres, legalizing informal properties, expanding digital tax platforms nationwide, and adopting market-based valuation methods, which could enhance collection rates, reduce administrative costs, and support economic growth.

Citation: Ne'matjonovna, A. N. Improving Mechanisms for Calculating and Collecting Property and Land Taxes From Individuals. American Journal of Economics and Business Management 2025, 8(5), 1888-1891.

Received: 10th March 2025
Revised: 25th March 2025
Accepted: 30th Apr 2025
Published: 04th May 2025



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Keywords: : property tax, land tax, tax collection, tax administration, digitalization, Uzbekistan.

1. Introduction

Property and land taxes levied on individuals are critical revenue sources for local budgets in Uzbekistan, contributing approximately 8% to regional fiscal inflows. These taxes, based on ownership of real estate and land parcels, support infrastructure development and public services. However, inefficiencies in calculation and collection—stemming from outdated valuation methods, incomplete cadastres, and low taxpayer compliance—limit their potential. In 2022, Uzbekistan collected 2.5 trillion UZS in property and land taxes, far below the estimated 4 trillion UZS potential. Internationally, countries like Germany and Kazakhstan achieve 90% collection efficiency through digital systems and transparent valuations, offering models for reform [1].

This study aims to propose improvements to mechanisms for calculating and collecting property and land taxes in Uzbekistan, addressing the following questions:

- What are the key inefficiencies in current tax calculation and collection processes?
- How can digitalization and modern valuation methods enhance tax administration?
- What reforms can align Uzbekistan's practices with global standards?

The article combines empirical evidence and international comparisons to offer actionable recommendations [2].

2. Materials and Methods

Literature Review. Property and land taxation is a well-researched area in fiscal policy. Norregaard (2013) describes property taxes as stable revenue sources due to their fixed tax base, though collection challenges arise from valuation disputes. Bird and Slack emphasize that accurate cadastres and digital systems boost collection rates by 15–20%. In Germany, automated valuation models ensure 95% tax base coverage, generating €50 billion annually. Kazakhstan’s digital tax portals increased land tax compliance by 25% since 2018 [3].

In Uzbekistan, studies highlight systemic issues. notes that incomplete cadastres exclude 30% of taxable properties, reducing revenues by 1 trillion UZS annually. Rahimov identifies low compliance due to complex payment processes, with only 60% of individuals paying on time. Internationally, Uzbekistan’s collection rate (65%) lags behind Germany (90%) and Kazakhstan (85%). The shadow economy, particularly unregistered property transactions, further distorts tax bases by 20%. This study addresses these gaps by analyzing current mechanisms and proposing reforms inspired by global practices[4].

Methodology. A mixed-methods approach was adopted. Qualitative analysis reviewed Uzbekistan’s tax legislation (“On Property Taxes” and “On Land Taxes”), regional tax administration reports, and practices in Andijan, Samarkand, Tashkent, and Qashqadaryo. International benchmarks from Germany, Kazakhstan, and Estonia were studied for comparative insights. Quantitative analysis used 2020–2024 data on tax revenues, taxable properties, and compliance rates from the State Tax Committee and regional cadastres [5].

A survey of 300 respondents provided insights into compliance barriers. Data were analyzed using SPSS, applying descriptive statistics, correlation analysis, and trend mapping. Key metrics included collection rates, tax base coverage, and administrative costs. Proposed improvements—digital tax platforms, revised valuation models, and compliance incentives—were evaluated for feasibility in Uzbekistan’s context [6].

3. Results

Uzbekistan’s property and land tax mechanisms have improved since 2020, but inefficiencies persist. Total collections grew by 12%, from 2.2 trillion UZS in 2020 to 2.5 trillion UZS in 2023, reflecting digital payment adoption. However, the unrealized potential remains significant, with 35% of taxable properties underreported [7].

In **Tashkent**, a pilot digital tax platform increased collections by 15%, adding 0.5 trillion UZS to revenues. The platform streamlined payments for 200,000 properties, raising compliance from 60% to 75%. Property valuations, based on market prices, boosted tax base accuracy by 10%, aligning revenues with the city’s 5 trillion UZS economic output. However, 20% of properties remained unregistered, costing 0.3 trillion UZS annually [8].

In **Andijan**, revised valuation models (using square-meter rates) improved assessments for 150,000 properties, increasing collections by 12% (0.2 trillion UZS) in 2023. Compliance rose to 70%, but outdated cadastres excluded 25% of rural land parcels, reducing potential revenues by 0.15 trillion UZS. Manual processing delayed collections, with 30% of taxpayers facing late penalties [9].

Samarkand implemented compliance incentives (e.g., 5% discounts for early payment), raising collections by 10% (0.18 trillion UZS). Land tax revenues from 100,000 parcels grew by 8%, reflecting tourism-driven property value increases. Yet, informal ownership—30% of urban properties—limited collections by 0.2 trillion UZS. Cadastral errors further underestimated tax bases by 15% [10].

In **Qashqadaryo**, low digitalization hindered progress, with only 50% compliance for 120,000 properties. Collections stagnated at 0.3 trillion UZS, 40% below potential due to

reliance on manual valuations. Shadow transactions, covering 25% of land deals, cost 0.1 trillion UZS annually. Survey data (N=300, 2023) showed 75% of respondents citing complex payment processes, 70% noting cadastral inaccuracies, and 65% highlighting lack of awareness as barriers [11].

Key challenges include:

- a. **Incomplete cadastres:** 30% of properties unregistered in Andijan and Samarkand, reducing revenues by 0.35 trillion UZS.
- b. **Shadow economy:** Informal ownership in Qashqadaryo and Tashkent lowers collections by 15–20%.
- c. **Low digitalization:** Qashqadaryo's manual systems increase administrative costs by 10%, delaying payments.
- d. **Outdated valuations:** Fixed-rate models in Andijan underestimate market values by 20%.

Economically, improved mechanisms had tangible impacts. Tashkent's 0.5 trillion UZS gain funded urban infrastructure, boosting GDP by 3%. Samarkand's 0.18 trillion UZS increase supported tourism projects, raising employment by 2%. Andijan's 0.2 trillion UZS growth enhanced public services, while Qashqadaryo's stagnation limited fiscal progress to 1% [12].

4. Discussion

The results demonstrate that modernized mechanisms—digital platforms, revised valuations, and compliance incentives—enhance tax collection efficiency in Uzbekistan, aligning with global trends. Tashkent's 15% revenue increase mirrors Kazakhstan's 20% gain from digital portals. Andijan's 12% growth via valuation reforms parallels Germany's 15% boost from market-based assessments. Samarkand's 10% compliance rise reflects Estonia's 18% improvement through incentive. However, Qashqadaryo's 40% shortfall underscores systemic gaps compared to global benchmarks [13].

Incomplete cadastres are a major barrier. Andijan's 25% unregistered properties contrast with Germany's 5% gap, where digital cadastres ensure 95% coverage. Adopting Kazakhstan's blockchain-based registries could recover 0.35 trillion UZS in Uzbekistan. **Shadow economy** impacts, costing 0.2 trillion UZS in Samarkand, align with Norregaard's estimate of 15–25% revenue losses in developing nations. Legalizing informal ownership, as in Estonia, could raise collections by 20%. **Low digitalization** in Qashqadaryo echoes Bird and Slack's (2004) findings that manual systems inflate costs by 10–15%. Germany's e-tax systems, reducing delays by 80%, offer a model for reform. **Outdated valuations** in Andijan, underestimating values by 20%, contrast with Kazakhstan's real-time pricing, which aligns revenues with market trends [14].

Survey insights—75% citing payment complexity and 70% noting cadastral errors—highlight user-level barriers. Tashkent's 3% GDP boost mirrors Kazakhstan's 4% fiscal gain from tax reforms. Samarkand's 2% employment rise aligns with Germany's 3% socioeconomic benefits from efficient taxation. Qashqadaryo's 1% growth lag underscores digital divides, as seen in developing nations [15].

Future reforms could emulate Estonia's digital cadastres, increasing coverage by 60%. Kazakhstan's compliance campaigns could boost Uzbekistan's rates by 25%. Germany's valuation models could align tax bases with market realities, adding 0.5 trillion UZS annually. Hybrid systems, combining digital tools and incentives, could achieve 90% collection rates, as seen in developed economies.

5. Conclusion

The study confirms that improving mechanisms for calculating and collecting property and land taxes in Uzbekistan enhances revenues by 10–15%. Digital platforms, revised valuations, and compliance incentives drive progress, but incomplete cadastres, shadow economies, and low digitalization limit potential. Recommendations include:

- a. Implement digital cadastres to register 90% of properties, targeting Andijan and Samarkand.
- b. Legalize informal ownership to recover 20% of lost revenues, as in Tashkent.
- c. Expand digital tax platforms nationwide, reducing Qashqadaryo's 10% administrative costs.
- d. Adopt market-based valuations to align tax bases with economic realities, adding 0.5 trillion UZS.

This research provides a roadmap for Uzbekistan and similar economies to strengthen fiscal systems.

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