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Advancing economic growth through enhanced tax compliance and revenue generation: Leveraging data analytics and strategic policy reforms

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Abstract

Tax compliance and revenue generation are critical components for driving economic growth and ensuring sustainable development. This paper explores the challenges hindering effective tax systems, including evasion, inadequate administrative infrastructure, and low public awareness, collectively undermining resource mobilization. It highlights the transformative role of data analytics in enhancing tax compliance through tools such as predictive modeling, real-time fraud detection, and actionable insights for policymaking. The paper also examines strategic policy reforms, including equitable taxation frameworks, incentives, penalties, and technology integration, as essential measures for optimizing revenue generation. By synergizing data-driven strategies with robust policy innovations, governments can improve tax administration, foster equitable economic systems, and unlock the potential for sustained growth. The findings underscore the importance of modernizing tax systems to address contemporary challenges, ensuring transparency, and building public trust for greater compliance.

Keywords: Tax Compliance; Revenue Generation; Data Analytics; Policy Reforms; Economic Growth; Tax System Modernization

1 Introduction

1.1 Overview of the Relationship Between Tax Compliance, Revenue Generation, and Economic Growth

Tax compliance and revenue generation are essential elements in the financial health of any nation. Taxes form a significant source of government revenue, enabling the funding of public goods and services, such as infrastructure, healthcare, and education (Ojo, 2020). Efficient tax systems contribute directly to a nation's economic stability and growth by redistributing wealth, reducing inequality, and providing a reliable income stream for development initiatives. Conversely, inadequate tax compliance undermines this revenue stream, constraining a government's capacity to invest in economic development (Prichard, Custers, Dom, Davenport, & Roscitt, 2019).

Tax compliance refers to the degree to which individuals and businesses meet their tax obligations, adhering to legal requirements for filing, reporting, and payment. High compliance levels enhance revenue generation, enabling governments to finance public projects without excessive borrowing. However, challenges such as tax evasion, avoidance, and inefficient administration create gaps that significantly reduce the effectiveness of tax systems. These gaps can lead to increased reliance on external funding or austerity measures, which can stifle economic growth.

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On the other hand, economic growth benefits from robust tax compliance through the steady inflow of funds to the government. This inflow supports macroeconomic stability, reduces fiscal deficits, and fosters investor confidence. The relationship between tax compliance and economic growth is cyclical; efficient tax systems fuel economic progress, and economic growth, in turn, broadens the tax base. Therefore, addressing the gaps in compliance and revenue generation is critical for sustainable development (Moore & Prichard, 2020).

1.2 Significance of Data Analytics and Strategic Policy Reforms in Modern Tax Systems

Integrating data analytics into tax administration has transformed how governments monitor and enforce compliance. Data analytics involves using advanced computational tools and techniques to extract insights from large datasets (Kozlowski, Issa, & Appelbaum, 2018). In taxation, these insights are invaluable for identifying patterns, detecting fraud, and predicting taxpayer behavior. For example, machine learning algorithms can pinpoint anomalies in tax filings, flagging potential cases of evasion or underreporting. Similarly, predictive analytics can help tax authorities forecast revenue trends, improving budgeting and resource allocation (Engin & Treleaven, 2019).

Moreover, strategic policy reforms are essential in adapting tax systems to the complexities of modern economies. These reforms often aim to simplify tax codes, broaden the tax base, and implement equitable systems that minimize loopholes. By aligning tax policies with the realities of digital economies and global trade, governments can ensure that tax systems remain relevant and effective. Strategic reforms can also incentivize compliance by reducing administrative burdens and increasing transparency. For instance, policies that integrate tax systems with digital platforms can streamline processes, making it easier for individuals and businesses to comply (Prichard et al., 2019).

Data analytics and policy reforms are mutually reinforcing. While analytics provides actionable insights for designing evidence-based policies, reforms create the structural changes needed for analytics to operate effectively. Together, they enable governments to build tax systems that are efficient and adaptive to emerging challenges such as globalization, digitalization, and environmental sustainability (Custer, King, Atinc, Read, & Sethi, 2018).

1.3 Objectives and Scope of the Paper

This paper explores the intersection of tax compliance, revenue generation, and economic growth, focusing on the transformative role of data analytics and strategic policy reforms. It aims to analyze the existing challenges that hinder effective tax collection and compliance, shedding light on the gaps that need to be addressed to unlock the full potential of tax systems. By examining the role of data analytics, the paper highlights how technology can be leveraged to improve monitoring, enforcement, and forecasting in tax administration.

Additionally, the paper delves into strategic policy reforms, proposing approaches to modernize tax systems and optimize revenue generation. It emphasizes the need for holistic strategies that combine technological innovation with policy adjustments, ensuring that tax systems remain robust and equitable. While the focus is global, the insights provided are applicable across a wide range of economies, from developing nations grappling with informal sectors to advanced economies dealing with complex corporate structures.

The paper is structured to provide a comprehensive understanding of the topic. It begins with an analysis of the current challenges in tax compliance and revenue generation, identifying key issues that undermine economic growth. The discussion then shifts to the role of data analytics, exploring its applications and benefits in enhancing compliance and revenue collection. This is followed by an examination of strategic policy reforms, with recommendations for aligning tax systems with the demands of contemporary economies. The paper concludes with actionable recommendations, emphasizing the importance of integrating data-driven approaches with strategic reforms to achieve sustainable economic growth.

2 Current Challenges in tax Compliance and Revenue Generation

2.1 Common Barriers to Effective Tax Compliance

Effective tax compliance remains a significant challenge for governments worldwide due to a variety of systemic, social, and economic factors. One of the most pervasive barriers is tax evasion, where individuals or businesses intentionally underreport income, overstate deductions, or fail to file tax returns altogether. The existence of informal economies and weak enforcement mechanisms often facilitates this practice. For instance, in countries with substantial informal sectors, transactions occur outside the purview of regulatory frameworks, making it difficult for tax authorities to assess and collect revenues (Winter & Vozza, 2022).

Another critical barrier is inadequate tax systems, which encompass outdated infrastructure, inefficient processes, and limited access to taxpayer information. Many developing countries rely on manual or semi-digital systems that are prone to errors, delays, and corruption (Ampaabeng, 2019). The lack of integration between different government agencies further exacerbates the issue, creating gaps that non-compliant taxpayers can exploit. Moreover, weak auditing systems and limited capacity for risk assessment prevent tax authorities from effectively identifying and addressing cases of non-compliance (Levin, 2021).

Lack of awareness and education among taxpayers is also a significant impediment to compliance. Many individuals and small businesses are unfamiliar with their tax obligations, either due to poor outreach efforts by governments or the complexity of tax codes. This lack of understanding can lead to unintentional non-compliance, especially in rural or underserved areas with limited access to information and professional advice. For instance, small businesses operating in such regions may struggle to navigate complex filing procedures, resulting in missed deadlines or errors in reporting (Sebele-Mpofu & Chinoda, 2019).

Corruption and mistrust in government institutions further discourage compliance. In some cases, taxpayers are unwilling to contribute to systems they perceive as unfair or inefficient. Mismanagement of public funds or lack of transparency in government spending undermines citizens' confidence in tax authorities, fostering a culture of evasion. This issue is particularly prevalent in regions where governments fail to demonstrate a clear link between tax revenues and public services (Omondi & Theuri, 2019).

2.2 Impact of Inefficient Tax Collection on Economic Development

The inefficiencies in tax collection systems have far-reaching consequences for economic development, as they directly undermine a government's ability to generate adequate revenue for public spending. When tax revenues fall short of expectations due to non-compliance or systemic flaws, governments face significant fiscal constraints that limit their capacity to invest in critical sectors such as education, healthcare, infrastructure, and social welfare. For instance, underfunded healthcare systems may struggle to provide adequate services, impacting population health and productivity. Similarly, inadequate infrastructure can deter foreign investment, slow trade, and reduce overall economic competitiveness.

One of the most immediate impacts of inefficient tax collection is widening fiscal deficits. Governments often resort to external borrowing to make up for revenue shortfalls, which increases national debt and leads to higher interest payments. Over time, these fiscal pressures can limit a country's ability to fund essential services, creating a cycle of underdevelopment. Additionally, excessive borrowing can crowd out private investment, as high government debt levels often lead to tighter monetary policies and reduced credit availability for businesses (Youssef, 2019).

Inefficient tax systems also contribute to economic inequality, as governments may rely disproportionately on indirect taxes such as value-added tax (VAT) to compensate for revenue losses. Indirect taxes are regressive, placing a greater burden on low-income households relative to their earnings. This regressive taxation can exacerbate income disparities and reduce social cohesion, further hindering economic growth (Gale, 2020). Moreover, weak tax compliance undermines the rule of law and public trust in governance. When tax evasion is widespread and goes unpunished, it creates an uneven playing field where compliant taxpayers bear a disproportionate share of the tax burden. This perception of injustice can discourage compliance even among otherwise law-abiding citizens, further eroding the revenue base.

In the context of developing economies, inefficient tax systems hinder the ability to mobilize domestic resources, which is critical for achieving sustainable development goals (SDGs). For example, countries that rely heavily on external aid or commodity exports often face volatility in revenue streams, making it essential to develop robust domestic tax systems. Without reliable tax revenues, governments are unable to invest consistently in poverty alleviation, education, or climate resilience, leaving their economies vulnerable to external shocks (Maiurova et al., 2022).

The lack of effective tax collection mechanisms also weakens a country's ability to respond to emerging global challenges, such as climate change and digital transformation. For instance, carbon taxes and digital service taxes require sophisticated tracking and enforcement systems to be effective. Countries with underdeveloped tax administrations may struggle to implement these policies, limiting their participation in global efforts to address environmental and economic issues (Rukundo, 2020).

While the barriers to effective tax compliance and the consequences of inefficient collection are daunting, they highlight the urgency of reform. Strengthening tax administration systems, enhancing public awareness, and building trust in

government institutions are essential steps toward improving compliance. Additionally, leveraging technology, such as data analytics and automation, can address many of the inefficiencies and enable governments to maximize revenue collection (Okeke, Agu, Ejike, Ewim, & Komolafe, 2022). In conclusion, overcoming current tax compliance and revenue generation challenges is critical for sustainable economic development. By addressing these barriers, governments can unlock additional resources to invest in public services, reduce inequality, and foster long-term growth.

3 Role of Data Analytics in Enhancing Tax Compliance

3.1 Applications of Data Analytics for Tracking, Prediction, and Fraud Detection

Data analytics has emerged as a transformative tool in modern tax administration, enabling authorities to enhance compliance through advanced tracking, prediction, and fraud detection mechanisms. With the exponential growth of digital transactions and the proliferation of data from multiple sources, tax authorities are leveraging analytics to gain actionable insights into taxpayer behavior and financial activities (Atayah & Alshater, 2021).

One of the primary applications of data analytics is tracking tax compliance in real-time. Tax authorities now utilize digital systems that collect and analyze transaction data from sources such as banking systems, e-commerce platforms, and supply chain records. By integrating these datasets, authorities can monitor taxpayer activities and identify discrepancies between reported and actual incomes. For example, advanced analytics tools can match reported sales data with point-of-sale systems to detect underreporting (Munagandla, Dandyala, & Vadde, 2022).

Predictive analytics is another powerful application, allowing tax authorities to forecast compliance trends and revenue flows. By analyzing historical data and behavioral patterns, predictive models can estimate the likelihood of noncompliance among specific taxpayer groups. These forecasts help tax administrations prioritize their resources by focusing audits on high-risk taxpayers or sectors. For instance, a predictive model might flag industries or regions with historically high evasion rates, enabling targeted interventions that save time and reduce administrative burdens (Junquera-Varela, Lucas-Mas, Krsul, Calderon Yksic, & Arce Rodriguez, 2022).

Data analytics is also central to fraud detection, where advanced algorithms can identify anomalies that suggest intentional wrongdoing. Machine learning models, for instance, can analyze large datasets to detect unusual patterns, such as inconsistent tax filings, sudden spikes in deductions, or mismatched financial records. These models can learn and adapt over time, improving their accuracy in spotting fraudulent activities. A practical example is network analysis, which traces hidden connections between entities involved in tax evasion schemes, such as shell companies or offshore accounts (Bakumenko & Elragal, 2022). Furthermore, text mining and natural language processing (NLP) techniques allow tax authorities to analyze unstructured data from social media, news articles, and other online sources to uncover undeclared assets or income streams. For example, an individual showcasing a lavish lifestyle online while reporting minimal income could trigger an investigation (Butler, 2020).

3.2 Benefits of Integrating Data Analytics into Tax Administration Systems

Integrating data analytics into tax administration systems offers many benefits, fundamentally transforming the way compliance is monitored and enforced. These benefits span efficiency, accuracy, transparency, and taxpayer experience. One of the most significant advantages is increased efficiency in tax administration. Traditional methods of auditing and compliance monitoring often involve manual processes that are time-consuming and resource-intensive (Ponnusamy et al., 2021). With data analytics, tax authorities can automate routine tasks, such as cross-referencing taxpayer records, flagging inconsistencies, and generating risk assessments. This automation reduces the workload on tax officers, allowing them to focus on complex cases that require human expertise (Migai, de Jong, & Owens, 2018).

Enhanced accuracy is another key benefit. Data analytics minimizes human errors in the auditing process by relying on objective algorithms to analyze and interpret information. For example, instead of relying solely on manual audits that might overlook subtle discrepancies, analytics tools can identify nuanced patterns of evasion or underreporting. Using real-time data also ensures compliance assessments are based on the most current information, improving the reliability of tax collection systems (Engin & Treleaven, 2019).

The integration of analytics promotes greater transparency and trust in tax systems. By leveraging data, governments can provide clear explanations of how tax liabilities are calculated, reducing disputes and improving taxpayer confidence. For instance, pre-filled tax forms generated using analytics can simplify filing while ensuring accuracy. Transparent systems that utilize analytics also demonstrate to taxpayers that compliance enforcement is fair, reducing the perception of bias or corruption (Prichard et al., 2019).

Another critical benefit is the ability to reduce the tax gap, which is the difference between the taxes owed and those actually collected. Data-driven insights help authorities identify areas where revenue losses are most significant and implement targeted measures to address these gaps. For instance, analytics can reveal sectors with high levels of informal transactions or regions with low compliance rates, enabling tailored strategies to improve revenue collection (Alm, Beebe, Kirsch, Marian, & Soled, 2019).

Improved taxpayer services are often overlooked benefits of integrating analytics into tax systems. By understanding taxpayer behavior and preferences through data analysis, authorities can design user-friendly platforms and personalized communication strategies. For example, analytics can identify taxpayers who are likely to miss filing deadlines and send them timely reminders, reducing penalties and fostering a culture of voluntary compliance (Politou, Alepis, & Patsakis, 2019).

The integration of analytics also positions tax systems to address emerging challenges in the digital economy. As ecommerce and digital transactions grow, traditional tax models face difficulties in tracking and assessing cross-border activities. Analytics tools equipped with AI and machine learning capabilities can navigate these complexities by analyzing global transaction data and identifying taxable activities. For instance, digital service providers operating across multiple jurisdictions can be monitored to ensure compliance with local tax regulations. Lastly, data analytics enhances collaboration between agencies and governments. Tax authorities can coordinate efforts to combat tax evasion and optimize revenue collection by sharing data and insights. For example, customs departments, financial institutions, and social welfare agencies can collaborate to cross-check data, ensuring consistency and accuracy in tax assessments (Hanna, 2018).

4 Strategic Policy Reforms for Optimized Revenue Generation

4.1 Tax Policy Innovations for Equitable Revenue Generation

Strategic tax policy reforms are pivotal in ensuring governments generate sufficient revenue to fund public services while fostering fairness in tax systems. One of the primary areas of focus for policy reform is the creation of progressive tax structures that ensure individuals and businesses contribute equitably based on their income and wealth. Progressive taxation not only addresses inequality but also broadens the tax base by targeting higher-income earners and corporations that have the capacity to pay more without experiencing undue financial strain (O'Reilly, 2018).

Another critical innovation is the simplification of tax codes. Complex tax regulations often deter compliance, especially among small businesses and individual taxpayers. Governments can encourage voluntary compliance by streamlining tax processes and reducing administrative burdens. For example, introducing unified tax forms or adopting straightforward value-added tax (VAT) systems can eliminate ambiguities that lead to unintentional non-compliance. Simplified tax codes also reduce the opportunities for tax avoidance schemes that exploit loopholes in overly intricate regulations (Dom, Custers, Davenport, & Prichard, 2022).

Another essential reform is expanding the tax net to include previously untaxed or under-taxed sectors. Many economies struggle with informal sectors that operate outside formal tax systems. Governments can implement policies that incentivize small businesses to formalize their operations, such as reduced initial tax rates or financial support for compliance costs. Additionally, emerging areas like the digital economy require targeted policies to ensure that ecommerce platforms, gig economy workers, and digital service providers contribute fairly to national revenues (Moore, 2020).

Policies addressing environmental taxation have also gained traction as innovative tools for equitable revenue generation. Carbon taxes, for instance, impose levies on activities that contribute to environmental degradation, encouraging businesses to adopt sustainable practices while providing governments with an additional revenue stream. These taxes ensure that polluters bear the financial burden of their actions, promoting equity and environmental responsibility.

4.2 Incentives and Penalties to Encourage Compliance

Encouraging compliance requires a balanced approach that combines incentives with penalties, creating a system that rewards honest taxpayers while deterring evasion and fraud. Incentives, such as tax credits, deductions, and rebates, can motivate individuals and businesses to comply with tax regulations. For instance, offering deductions for investments in education, healthcare, or renewable energy promotes compliance and aligns with broader policy goals of economic and social development.

Governments can also implement early payment discounts or reduced penalties for taxpayers who promptly settle their obligations. These measures can alleviate the financial strain on taxpayers while fostering a culture of timely compliance. Similarly, providing recognition or certifications for compliant businesses can enhance their reputation and encourage others to follow suit. On the other hand, penalties and enforcement mechanisms play a crucial role in deterring non-compliance. Heavy fines, asset seizures, or even imprisonment for severe cases of evasion send a strong message about the consequences of tax avoidance. Advanced monitoring systems enabled by data analytics can ensure penalties are applied fairly and effectively, targeting high-risk taxpayers without overburdening low-risk individuals or businesses (Slemrod, 2019).

The implementation of graduated penalties—where the severity of consequences increases with the degree of non-compliance—can strike a balance between enforcement and fairness. For instance, first-time offenders might receive warnings or minor penalties, while repeat offenders face more severe sanctions. This approach provides opportunities for education and correction, particularly for individuals or businesses that might have inadvertently violated tax laws.

Voluntary disclosure programs are another effective tool, offering reduced penalties or immunity for taxpayers who self-report previously undeclared income. Such programs recover lost revenues and improve compliance rates by encouraging taxpayers to rectify past mistakes without fear of excessive punishment.

4.3 Synergizing Policy Reforms with Technology for Sustainable Growth

Integrating strategic policy reforms with technology is essential for creating sustainable, efficient, and future-ready tax systems. Technology acts as an enabler, allowing governments to implement and enforce policies more effectively while minimizing administrative costs. One key area of synergy is the development of digital tax platforms that simplify compliance processes. By offering user-friendly online portals for filing and payment, governments can reduce the administrative burden on taxpayers while improving accuracy. Automated systems can also calculate tax liabilities based on real-time data, ensuring transparency and minimizing errors. For example, pre-filled tax forms generated through integrated data analytics can make compliance virtually effortless for individuals and small businesses (Eziefule, Adelakun, Okoye, & Attieku, 2022).

Technology also enhances policy enforcement through data-driven monitoring and auditing. Advanced analytics tools can identify discrepancies and anomalies in taxpayer records, enabling authorities to detect evasion or fraud more efficiently. These insights allow for targeted audits, reducing the costs and disruptions associated with blanket enforcement measures. Moreover, blockchain technology offers opportunities to enhance transparency and security in tax administration, preventing tampering and ensuring accurate reporting.

The use of artificial intelligence (AI) and machine learning further complements policy reforms by providing predictive insights that help design more effective tax policies. For instance, AI can analyze taxpayer behavior and economic trends to recommend optimal tax rates or identify sectors that require additional regulation. These technologies also assist in assessing the potential impacts of proposed policies, allowing governments to make data-driven decisions that maximize revenue generation while minimizing adverse effects (van Ooijen, Ubaldi, & Welby, 2019).

Another innovative approach is the implementation of real-time transaction tracking systems. Governments can mandate the use of digital payment systems or electronic invoicing, ensuring that every financial transaction is recorded and traceable. Such systems improve compliance and provide authorities with valuable data for policy evaluation and economic planning.

Finally, the adoption of technology fosters international collaboration in tax policy and enforcement. Cross-border datasharing agreements, enabled by digital platforms, allow governments to address tax evasion strategies that exploit jurisdictional gaps. For example, policies targeting multinational corporations' profit-shifting practices require seamless coordination between countries, which is facilitated by digital tools and standardized reporting frameworks.

5 Conclusion

Tax compliance and revenue generation are fundamental pillars for fostering economic growth. Throughout this paper, it has been emphasized that effective tax systems are not just about collecting revenues but also about creating equitable and sustainable frameworks that support societal development. Current challenges, such as tax evasion, inadequate administrative systems, and low public awareness, significantly undermine the ability of governments to mobilize the resources necessary for economic stability and growth. Furthermore, inefficient tax collection systems

disproportionately harm developing economies, leading to revenue gaps that hinder critical investments in infrastructure, healthcare, and education.

Data analytics emerges as a transformative solution to addressing these challenges. Tax authorities can streamline compliance, minimize errors, and close loopholes that allow evasion by leveraging tools for real-time tracking, fraud detection, and predictive modeling. Integrating data analytics into tax administration provides operational efficiencies and actionable insights for designing more effective and targeted policies.

Strategic policy reforms play an equally vital role in optimizing revenue generation. Innovations in tax policies, such as progressive taxation and environmental levies, ensure that tax systems remain equitable and responsive to contemporary challenges. Incentive-based compliance frameworks and technology-driven enforcement mechanisms further enhance the efficacy of these policies. The synergy between data analytics and strategic reforms underscores the potential to modernize tax systems, making them resilient and growth-oriented.

The implications for economic growth are profound. Enhanced revenue generation enables governments to fund essential public services, invest in critical infrastructure, and create a stable economic environment that attracts foreign and domestic investment. Moreover, equitable tax systems reduce income disparities, fostering social cohesion and broadening the base for sustainable economic progress.

5.1 Recommendations for Adopting Data-Driven Strategies and Robust Policies

To fully realize the benefits outlined in this paper, governments and tax authorities must prioritize adopting data-driven strategies and robust policy frameworks. The following recommendations offer actionable steps to advance tax compliance and revenue generation:

- Governments should allocate resources to develop and deploy state-of-the-art data analytics tools to monitor, predict, and analyze taxpayer behavior. Cloud-based systems, artificial intelligence, and machine learning algorithms should be integrated into tax administration to ensure real-time processing and decision-making. These technologies can enhance efficiency and enable targeted interventions, minimizing revenue losses.
- Increasing taxpayer understanding of their obligations and the benefits of compliance is essential. Governments should conduct widespread educational campaigns using digital platforms, community outreach, and public service announcements. Transparent communication about how tax revenues are utilized can build trust and encourage voluntary compliance.
- Complex tax systems often lead to confusion and inadvertent non-compliance. Governments should aim to simplify tax regulations and provide user-friendly platforms for filing and payment. Pre-filled tax returns, automated calculations, and mobile-accessible systems can significantly reduce administrative burdens for taxpayers.
- A balanced approach to compliance should be adopted, combining incentives such as tax credits, deductions, and rebates with stringent penalties for evasion and fraud. Voluntary disclosure programs can also be effective in recovering lost revenues while fostering a cooperative relationship between taxpayers and authorities.
- As globalization shapes economies, cross-border tax issues such as transfer pricing and profit shifting demand coordinated responses. Governments should participate in international data-sharing agreements and adopt standardized frameworks such as the OECD's Base Erosion and Profit Shifting (BEPS) initiatives. Collaborative efforts can address tax avoidance strategies that exploit jurisdictional gaps.
- By embracing these recommendations, governments can improve compliance and revenue collection and build
 resilient economies that support long-term growth, social equity, and global competitiveness. The journey
 toward enhanced tax compliance and optimized revenue generation is a shared responsibility, requiring
 collaboration among policymakers, businesses, and taxpayers. Through collective effort and commitment, the
 transformative potential of modern tax systems can be fully realized, driving progress for generations to come.

Compliance with ethical standards

Disclosure of conflict of interest

No conflict of interest to be disclosed.

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