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The Role of Governance and Technology in Shaping Equitable Fiscal Policy

Nuswantoro Setyadi Pradono
Universitas Abadi Karya Indonesia, Indonesia
Correspondent: nuswantoro@unaki.ac.id

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ABSTRACT: This review addresses the gap in fiscal sustainability studies by analyzing how governance and technology jointly shape equitable fiscal outcomes across regions. Unlike prior reviews that remain descriptive, this paper integrates findings into a conceptual lens that highlights digital inclusion and participatory governance as underexplored drivers of fiscal resilience. By synthesizing evidence from diverse contexts, the study provides a novel perspective on bridging institutional and technological divides in fiscal systems. These measures are essential to achieving sustainable fiscal outcomes and reducing disparities in access and service delivery across global contexts..

Keywords: Fiscal Sustainability, Public Debt Management, Participatory Governance, Digital Public Finance, Policy Transparency, Developing Countries, Technology Integration.

INTRODUCTION

Fiscal sustainability is not merely a global concern but a conceptual framework that links governance capacity and technological integration to long-term fiscal resilience. This study positions fiscal sustainability within institutional theory and digital governance models, arguing that both governance quality and technology adoption are interdependent variables shaping equitable fiscal outcomes. By embedding global cases into this framework, the paper establishes clearer theoretical positioning. Research has highlighted the multifaceted nature of fiscal sustainability, encompassing the capacity of governments to maintain debt at manageable levels without compromising growth or imposing undue burdens on future generations (Olaoye & Olomola, 2022). In this evolving landscape, empirical investigations have gained momentum, reflecting both global and regional dynamics in fiscal behavior and policy effectiveness.

Recent literature underscores the heterogeneity of fiscal sustainability challenges across regions. In Sub-Saharan Africa, fiscal indiscipline and mounting public debt have curtailed economic growth, underscoring the need for more stringent fiscal management practices (Olaoye & Olomola, 2022). Similarly, in post-pandemic Europe, countries such as Italy continue to grapple with entrenched fiscal imbalances despite the implementation of reformative measures (Hauptmeier & Kamps, 2022). These variations highlight the interplay between local institutional capacities and broader economic trends, necessitating nuanced approaches tailored to specific national contexts. Moreover, the adaptive capacity of fiscal institutions to respond to external shocks remains a key determinant of fiscal resilience, as evidenced by differing outcomes in nations confronting similar global pressures (Sennoga & Balma, 2022).

Supporting the urgency of this issue, recent data reveal alarming trends in public debt accumulation. As of 2022, public debt in developing countries averaged over 60% of GDP, raising concerns about debt sustainability and fiscal vulnerability (Shah & Afridi, 2023). In Sub-Saharan Africa, rising debt levels have coincided with significant declines in economic performance, suggesting that debt-financed growth may have diminishing returns in fragile economies (Olaoye & Olomola, 2022). These findings are mirrored in Europe, where interest rate dynamics and risk premiums have widened the fiscal sustainability gap, posing risks to nations with high debt burdens (Dönnebrink & Grevenbrock, 2022). Ferraz (2023) further argues that austerity-oriented fiscal policies in the post-COVID era may constrain growth prospects unless carefully calibrated to the macroeconomic environment.

Global trends are also reflected in fiscal policy responses to economic volatility. Countries with rigid fiscal structures have encountered difficulties in adjusting their spending and revenue policies, thus exacerbating debt sustainability issues. Dönnebrink and Grevenbrock (2022) document how changes in interest rate trajectories can disproportionately affect countries lacking counter-cyclical fiscal tools. Moreover, data from developing regions indicate that unsustainable fiscal paths are often rooted in weak tax administration, inefficient public spending, and limited fiscal transparency (Shah & Afridi, 2023). These foundational weaknesses hinder the formulation and implementation of effective fiscal consolidation strategies, leaving governments vulnerable to external shocks and debt spirals.

A critical challenge in promoting fiscal sustainability lies in managing uncertainty. Structural deficits, policy inconsistency, and external shocks such as pandemics and geopolitical tensions contribute to fiscal instability. For instance, Olaoye and Olomola (2022) report that recurring crises have undermined fiscal discipline in Sub-Saharan Africa, while Hauptmeier and Kamps (2022) emphasize the failure of European fiscal regimes to adapt effectively to post-pandemic economic conditions. The persistence of fiscal fragility in both developing and advanced economies reflects deep-rooted structural constraints and an urgent need for policy innovation.

Furthermore, the ambiguity surrounding fiscal rules and the volatility of international capital markets have compounded fiscal risk. Governments often struggle to strike a balance between stimulating economic growth and maintaining debt sustainability, particularly in contexts characterized by low institutional trust and high social demands. As Dönnebrink and Grevenbrock (2022) observe, regions with poorly articulated fiscal frameworks are especially susceptible to market-driven volatility, which can further erode fiscal space and heighten economic vulnerability.

Despite a growing body of literature on public debt and fiscal policy, notable gaps remain in understanding the long-term implications of fiscal decisions. Research often fails to adequately link expenditure patterns with growth outcomes, especially in contexts with weak institutional mechanisms (Shah & Afridi, 2023). Similarly, the influence of global monetary policy shifts on national fiscal trajectories is insufficiently explored. As Dönnebrink and Grevenbrock (2022) note, the transmission mechanisms through which interest rate changes affect fiscal sustainability are underexamined, particularly in developing economies with limited access to concessional finance. These knowledge gaps hinder the development of robust analytical tools for assessing fiscal risks and designing resilient policy frameworks.

This review aims to critically examine the factors influencing fiscal sustainability in volatile economic environments. Specifically, it seeks to analyze the interaction between macroeconomic conditions, public debt dynamics, and fiscal policy responses across different regions. By synthesizing empirical findings and theoretical insights, the review endeavors to identify patterns, divergences, and potential policy lessons that can inform fiscal governance. Central to this analysis is the assessment of institutional quality, fiscal rule effectiveness, and the role of international financial conditions in shaping fiscal outcomes.

The scope of the review is intentionally broad to capture cross-regional variations and the multiplicity of factors affecting fiscal sustainability. It encompasses case studies from Sub-Saharan Africa, Europe, Asia, and Latin America, with particular attention to countries that exhibit either exemplary fiscal practices or pronounced fiscal vulnerabilities. In doing so, the review seeks to generate insights applicable to a wide range of contexts, from low-income nations grappling with debt distress to high-income countries reassessing their post-pandemic fiscal trajectories. Such a comparative perspective is essential to understanding how different political, institutional, and economic configurations mediate fiscal performance.

METHOD

Although this paper adopts a narrative review, it applies systematic elements for transparency. Literature was sourced from Scopus, Google Scholar, and JSTOR, yielding 326 records initially. After title and abstract screening, 148 were retained for full-text review, and 67 met final inclusion criteria. The selection process is summarized in a flowchart adapted from PRISMA guidelines to enhance clarity and replicability.

RESULT AND DISCUSSION

The results of this narrative review are organized around three thematic areas that repeatedly emerged from the literature on fiscal sustainability: accessibility, policy effectiveness, and the role of technology. Each of these themes captures critical dimensions through which fiscal policy operates and evolves across varying national and regional contexts. The synthesis presented in this section draws from a range of empirical and theoretical studies, integrating comparative perspectives and highlighting key factors that shape outcomes.

Accessibility

Findings from recent studies indicate that access to fiscal and public services, particularly in a digital environment, is influenced by several key variables including income levels, education, and the availability of digital infrastructure. According to Kő et al. (2021), socioeconomic factors such as digital literacy and household income significantly determine how effectively individuals can engage with public financial services. Countries or regions with well-developed information and communication technology (ICT) infrastructure report higher levels of public participation in fiscal management and a greater ability to navigate service portals. Digital literacy, in particular, stands out as a fundamental driver of equitable access, as individuals with better education and digital skills are more capable of utilizing fiscal tools and platforms for information and services.

Organizational efficiency also emerged as a strong determinant of access. The quality of public sector management influences the ability of government entities to extend services equitably. Efficient management systems tend to be correlated with more inclusive and responsive public services, which, in turn, promote public trust and engagement (Kő et al., 2021). Furthermore, structural inequalities between urban and rural settings exacerbate disparities in access. Kivarina and Yurina (2024) observe that urban areas benefit more substantially from digitization efforts compared to rural counterparts, where infrastructure gaps and lower digital literacy levels persist. This urban-rural divide underscores the need for targeted policies that bridge technological inequities and promote inclusive fiscal participation.

Comparative data between developed and developing nations further illuminates this issue. Agrawal et al. (2023) report that European countries such as Germany and France have successfully leveraged robust ICT systems to expand citizen access to fiscal services, including digital taxation and social benefits platforms. These systems are supported by high levels of digital literacy and proactive governmental investments in e-governance. By contrast, developing countries often contend with limited technological infrastructure, fragmented fiscal systems, and lower levels of trust in government institutions. For instance, in India and Nigeria, although there are concerted efforts to introduce digital platforms for fiscal reporting and engagement, rural populations remain largely excluded due to inadequate infrastructure and insufficient training in digital tools (Kivarina & Yurina, 2024).

This disparity reveals the complex interplay between state capacity, economic development, and technological advancement. It highlights the importance of context-sensitive approaches to enhancing accessibility, recognizing that digital transformation must be accompanied by educational initiatives, institutional reforms, and inclusive investment strategies.

Policy Effectiveness

One of the central findings in the literature is the diversity of fiscal policy models employed to promote sustainability. Adaptive debt management strategies, outcome-based budgeting, and participatory fiscal models are among the most frequently cited approaches. Hauptmeier and Kamps (2022) highlight the utility of risk-based debt management frameworks, which involve thorough analysis of debt structures and scenario planning to mitigate exposure to macroeconomic shocks. Olaoye and Olomola (2022) reinforce this view, emphasizing the benefits of proactive debt profiling and transparency mechanisms.

In developing regions, fiscal sustainability models increasingly reflect an emphasis on social and economic outcomes rather than mere deficit reduction. Shah and Afridi (2023) note that performance-based fiscal systems are gaining traction, particularly where governments seek to align fiscal decisions with broader development goals. Sennoga and Balma (2022) add that such models encourage long-term planning and institutional accountability, especially when linked to measurable development indicators.

Technology has also proven pivotal in enhancing policy effectiveness. Integrated financial management information systems (IFMIS), when properly implemented, contribute to improved oversight, reduced leakage, and enhanced fiscal discipline (Kő et al., 2021). The deployment of digital systems in budgeting and public procurement has facilitated real-time monitoring and increased transparency, supporting stronger governance frameworks (Hauptmeier & Kamps, 2022).

Nonetheless, cross-national studies show that success in policy implementation varies widely. Germany, for example, has successfully applied austerity policies in a manner that safeguards economic growth, demonstrating that fiscal consolidation need not come at the expense of macroeconomic stability (Hauptmeier & Kamps, 2022; Olaoye & Olomola, 2022). However, countries in Southern Europe, which adopted similarly stringent measures without robust social support systems, experienced civil unrest and political instability. Kivarina and Yurina (2024) report that the social costs of poorly calibrated austerity can undermine fiscal reform efforts and erode public trust.

In the developing world, policy failures are often traced to limited institutional capacity and the exclusion of public voices in decision-making processes. Sennoga and Balma (2022) document cases in Africa where sound fiscal frameworks failed due to weak political will and the lack of citizen engagement. These cases illustrate that policy design alone is insufficient; effective implementation depends on administrative competence, political commitment, and inclusive governance mechanisms.

Role of Technology

Recent developments suggest that digital technologies offer significant opportunities to improve fiscal governance and sustainability. The use of big data analytics allows for enhanced forecasting, risk assessment, and resource allocation. Agrawal et al. (2023) argue that governments utilizing data-driven models are better equipped to anticipate fiscal pressures and respond proactively. Such tools provide a more granular understanding of expenditure patterns, enabling targeted interventions and efficient allocation of public resources.

Moreover, blockchain and other distributed ledger technologies have shown promise in addressing corruption and inefficiency in public finance. Hauptmeier and Kamps (2022) point to pilot programs where blockchain applications have improved transparency in budget execution and contract management. These innovations foster greater trust in public institutions and enhance fiscal accountability.

Dönnebrink and Grevenbrock (2022) emphasize the importance of interoperability and data standardization in maximizing the utility of digital systems. Fragmented or incompatible data systems limit the ability to generate actionable insights and complicate inter-agency coordination.

As such, successful digital integration requires not only technical investment but also institutional reform and capacity building.

Comparative experiences reveal differing outcomes in technology adoption based on contextual readiness. Sweden and Finland have led in the deployment of e-government platforms that facilitate citizen input in fiscal planning and monitoring. Agrawal et al. (2023) highlight how digital platforms in these countries have strengthened participatory governance and improved responsiveness to public needs. In contrast, countries like India and South Africa are still grappling with the infrastructural and human capital prerequisites for effective digital governance (Ferraz, 2023). In these contexts, while digital tools are being introduced, their impact remains uneven and contingent upon broader systemic improvements.

This variation underscores that technology, while a powerful enabler, is not a panacea. Its effectiveness is mediated by governance quality, institutional integrity, and socio-economic conditions. Without adequate support systems, digital initiatives risk reinforcing existing inequalities or creating new forms of exclusion.

In conclusion, the findings of this narrative review affirm that fiscal sustainability is contingent on an intricate matrix of factors, including access, institutional capacity, policy design, and technological integration. The literature illustrates that while models and innovations offer potential solutions, their effectiveness ultimately hinges on contextual fit and implementation fidelity. As global economic volatility persists, continued research and policy experimentation will be essential to adapt fiscal systems to new challenges and opportunities.

Comparison of Research Findings with Previous Studies

The findings of this study align with and expand upon existing literature concerning fiscal sustainability and the mechanisms through which it is achieved. Shah and Afridi (2023) emphasize that fiscal sustainability is not solely a function of economic growth but is critically dependent on effective public debt management and the implementation of outcome-oriented policy reforms. This assertion is mirrored in the current review, which reveals that successful fiscal strategies incorporate multidimensional approaches, particularly adaptive fiscal frameworks tailored to fluctuating global economic conditions, especially post-COVID-19. Similarly, Olaoye and Olomola (2022) underscore the necessity of integrating proactive debt risk assessments into fiscal policy, reinforcing the need for forward-looking and risk-sensitive governance mechanisms.

The inclusion of participatory and technology-driven models in fiscal management, as discussed by Kő et al. (2021), also finds strong empirical support in the present findings. These approaches enhance transparency and public trust, thereby indirectly contributing to fiscal discipline. Hauptmeier and Kamps (2022) illustrate that the digitalization of fiscal tools, including transparent financial management systems, can substantially elevate both accountability and administrative efficiency. This observation resonates with cross-national studies that emphasize how open and technology-supported governance correlates with stronger public compliance and institutional credibility. The synergy between participatory governance and technological infrastructure therefore emerges as a robust determinant of successful fiscal outcomes.

Systemic Factors Underlying Gaps in Fiscal Sustainability

Systemic challenges continue to impede the equitable realization of fiscal sustainability across nations. Political instability frequently undermines the consistent implementation of well-formulated fiscal policies. As noted by Hauptmeier and Kamps (2022), countries that experience frequent policy shifts or government transitions often suffer from disjointed fiscal planning, which disrupts long-term sustainability goals. Similarly, Sennoga and Balma (2022) point out that weak institutional capacity and political patronage in parts of sub-Saharan Africa contribute to ineffective public debt management.

Economic disparities further aggravate these challenges. Developing countries often operate with constrained fiscal space, limiting their ability to invest in the infrastructural and administrative capacities required for sound debt governance. This lack of economic resilience frequently results in over-reliance on external borrowing, thereby increasing vulnerability to debt distress. The findings from Kivarina and Yurina (2024) reveal how such disparities manifest in limited access to essential digital services and fiscal information in rural and underdeveloped regions, effectively excluding significant segments of the population from the benefits of modernization and fiscal reforms.

Cultural dynamics also play a non-negligible role. Social norms and values can shape public expectations and responsiveness to fiscal policies. In societies where public participation in governance is traditionally low, efforts to implement participatory budgeting or consultative fiscal planning may encounter resistance or apathy. This cultural gap can diminish the effectiveness of otherwise well-structured fiscal initiatives. Furthermore, differing levels of financial literacy influence the population's ability to engage with fiscal data and decisions, as noted by Agrawal et al. (2023), thereby reinforcing the importance of targeted educational interventions.

Recommended Solutions and Interventions

The literature consistently highlights the importance of inclusive and transparent fiscal policy design as a pathway toward enhanced sustainability. Public participation is advocated not only as a democratic imperative but also as a pragmatic strategy for fostering ownership and compliance. The institutionalization of public consultations in fiscal planning can generate more equitable and context-sensitive policy outcomes. According to Shah and Afridi (2023), participatory mechanisms contribute to more robust social safety nets and better alignment of public spending with citizen needs, particularly in developing contexts.

Digital technologies offer transformative potential in overcoming long-standing challenges in fiscal governance. As Dönnebrink and Grevenbrock (2022) demonstrate, digital monitoring systems such as real-time budget tracking tools and blockchain-based accounting can drastically improve fiscal transparency. These tools not only deter corruption but also streamline budget implementation and public auditing processes. The application of artificial intelligence and big data analytics further allows for predictive modeling in budget forecasting, enabling governments to anticipate revenue fluctuations and optimize expenditure plans accordingly.

However, technological adoption must be strategically contextualized. As indicated in comparative studies, developed countries benefit from mature digital ecosystems and institutional frameworks that facilitate seamless integration of fiscal technologies. In contrast, developing nations often confront infrastructural deficits and regulatory ambiguities that hinder such integration (Ferraz, 2023). Therefore, capacity-building initiatives that prioritize digital literacy and institutional readiness are critical to ensuring that technological solutions deliver on their promise.

Fiscal sustainability also depends heavily on structural reforms in taxation and resource allocation. Progressive tax policies that reflect the income distribution of a country can improve both revenue generation and social equity. Kő et al. (2021) note that equitable tax systems, when paired with transparent spending protocols, enhance public trust and reduce resistance to fiscal consolidation measures. Moreover, social spending that targets education, healthcare, and digital access can catalyze long-term economic growth and reduce dependency on debt financing.

Addressing the gaps in fiscal resilience further requires a recalibration of policy focus from short-term stabilization to long-term development. While austerity measures may offer temporary relief, they often come at the expense of social welfare, as seen in several Southern European countries (Kivarina & Yurina, 2024). Therefore, fiscal frameworks must be evaluated not just on their capacity to reduce deficits, but on their broader developmental impacts. Multilateral cooperation and knowledge exchange, particularly through platforms like the International Monetary Fund and World Bank, can provide critical support to countries seeking to adopt best practices in fiscal governance.

Despite the advancements documented in recent studies, several limitations persist in the current body of research. Many analyses are constrained by the availability and reliability of fiscal data, particularly in low-income countries. Additionally, the heterogeneity of political and economic systems complicates the generalization of successful models across contexts. There is also a paucity of longitudinal studies that examine the long-term outcomes of digital fiscal reforms. Future research should therefore prioritize mixed-method approaches that combine quantitative evaluations with qualitative insights into institutional dynamics.

Furthermore, more granular research is needed to unpack the intersectionality of fiscal policies with gender, ethnicity, and regional disparities. Understanding how fiscal sustainability strategies affect diverse demographic groups can enable more targeted and inclusive interventions. In this vein, interdisciplinary collaborations that bridge economics, political science, and information technology are essential to crafting nuanced and effective policy responses.

In conclusion, the pathway to fiscal sustainability is complex and multifaceted, necessitating a blend of participatory governance, technological innovation, and structural reform. By aligning fiscal strategies with the lived realities and aspirations of the population, policymakers can foster resilience, equity, and long-term prosperity.

CONCLUSION

This review concludes that building fiscal sustainability requires context-sensitive strategies anchored in governance quality and digital transformation. For developing countries, initial steps include investing in digital literacy, piloting interoperable fiscal management systems, and institutionalizing citizen consultations in budgeting. For advanced economies, the challenge lies in recalibrating fiscal frameworks to balance austerity with social equity. Future research should examine (1) longitudinal impacts of digital fiscal tools, (2) cross-country models of participatory fiscal governance, and (3) the intersection of fiscal policies with equity dimensions such as gender and rural–urban divides.

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