Open Access Journal Available Online

Digital Transformation and Good Governance in Nigeria

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Paper selected from 2nd Covenant University Conference on Leadership and Development (CUCLeD), June 11-13, 2025

Abstract: This study explores the intersection of digital transformation and good governance in Nigeria, examining how technological advancements can enhance governance practices, increase transparency, and reduce corruption. The primary objective is to assess the role of digital technologies in improving public sector efficiency and service delivery. Utilizing secondary data, the research draws from governmental reports, academic articles, and case studies on Nigeria's digital governance initiatives, such as e-government platforms and digital identity systems. The study applies digital era theory and to reveal the dynamics in digital transformation and good governance. The findings suggest that digital transformation can foster transparency, reduce inefficiencies, and improve public accountability. However, challenges such as limited internet access, digital illiteracy, and infrastructural deficits hinder full-scale implementation. The study recommends enhancing digital infrastructure, promoting digital literacy programs for public servants and citizens, and ensuring the protection of data privacy through robust cybersecurity policies. Additionally, public-private partnerships should be encouraged to drive innovation in e-governance platforms. By leveraging digital technologies, Nigeria can strengthen governance structures, improve public service delivery, and foster greater civic engagement, ultimately contributing to sustainable development.

Keywords: *Digital Transformation, E-Governance, Good Governance, Institutional Theory, Public Service*

URL: *http://journals.covenantuniversity.edu.ng/index.php/cujpia*

Introduction

Digital transformation has emerged as a critical strategy for enhancing governance in Nigeria, offering the potential to address systemic inefficiencies, promote transparency, and foster citizen engagement. In recent years, the Nigerian government has undertaken significant initiatives to integrate digital technologies into public administration, aiming to modernize service delivery and strengthen institutional accountability. These efforts are encapsulated in the National Digital Economy Policy and Strategy (2020–2030), which outlines a comprehensive framework for leveraging digital technologies to drive economic growth and improve public sector performance.

A critical component of Nigeria's digital governance agenda is the implementation of e-government initiatives designed to streamline public services and enhance accessibility. For instance, the Nigerian government has introduced automated visa approval systems, allowing prospective travelers to apply for short-stay visas online and receive approvals within 24 to 48 hours, thereby reducing bureaucratic delays and promoting business facilitation (Ojo, 2025). Additionally, the establishment of the Nigeria Data Protection Act in 2023 signifies a commitment to safeguarding citizens' personal information in the digital age. The Act creates the Nigeria Data Protection Commission (NDPC), which is tasked with regulating data processing activities and ensuring compliance with data protection standards (Ajayi & Anyanwu, 2023).

Despite these advancements, the journey towards effective digital governance in Nigeria is impeded by several challenges. Infrastructure deficits, particularly in rural areas, pose significant barriers to the widespread adoption of digital services. Limited internet connectivity, unreliable electricity supply, and disparities in digital literacy exacerbate the digital divide, hindering equitable access to e-government services (Oseni, 2024). Moreover, concerns regarding data privacy and cybersecurity remain prevalent, necessitating robust legal

frameworks to safeguard citizens' information and build trust in digital platforms (Atoyebi & Igho, 2023).

This paper critically examines the role of digital transformation in promoting good governance in Nigeria, assess the challenges hindering its full implementation, and explore the potential benefits of a digitally empowered public sector. By investigating these dimensions, the paper aims to provide insights into how digital tools can be leveraged to combat corruption, improve public service delivery, and build citizens' trust in governmental institutions. Furthermore, the paper seeks to evaluate the effectiveness of current policies and initiatives, such as the National Digital Economy Policy, the Nigeria Data Protection Act, and the automated visa approval system, in achieving the envisioned governance reforms.

In essence, this paper delves into the intersection of technology and governance in Nigeria, offering a comprehensive analysis of how digital transformation can serve as a catalyst for good governance. Through this exploration, the study aspires to contribute to the ongoing discourse on modernizing public administration in Nigeria and provide actionable recommendations for policymakers and stakeholders involved in the digital governance landscape.

Conceptual Clarification:

Concept of Digital Transformation

Digital transformation (DT)is a multifaceted and multidimensional process that involves the integration of digital technologies into all spheres of an organization, fundamentally changing how it operates and delivers value to customers. It encompasses a shift in organizational culture, necessitating a move towards continuous innovation and a willingness to embrace change. In the context of public administration, DT is increasingly recognized as a strategic imperative for enhancing governance, improving service delivery, and fostering transparency.

A comprehensive definition of digital transformation is provided by Czerska

(2023), who describes it as "the innovative use of digital technologies to provide better offerings to customers, design efficient operations or create new revenue streams for the business." This definition underscores the transformative impact of digital technologies on business processes and customer interactions. Similarly, Hoyer et al. (2020) highlight that the proliferation of Industry and technologies, such as the Internet, Big Data, Artificial Intelligence, Block chain, Robotics, and both virtual and augmented reality, are profoundly altering business dynamics and customer interactions across all sectors.

The process of digital transformation is not merely about adopting new technologies but also involves a strategic alignment of these technologies with organizational goals. According to McCarthy et al. (2023), effective digital transformation implementation requires consideration of four critical areas such as Leadership, People, Technology, and Experience. Leadership is particularly emphasized as a key enabler of digital transformation, as it provides the vision and direction necessary for successful transformation. This aligns with the findings of Bygstad et al. (2022), who assert that leadership plays a pivotal role in guiding organizations through the complexities of digital transformation.

Furthermore, the success of DT initiatives is influenced by organizational culture and readiness. Jones et al. (2021) argue that DT necessitates a shift in the mindset of individuals and collective organizations, emphasizing the importance of adapting to a digitally oriented culture. Leal-Rodríguez et al. (2023) also stress that a firm's ability to manage the optimal utilization of technological resources in the innovation process is enhanced by a digital organizational culture that facilitates adaptation to emerging technologies.

summarily, digital transformation is a complex and ongoing process that requires a holistic approach, integrating technological advancements with strategic leadership, organizational culture, and a focus on customer experience. As organizations continue to navigate the digital age, understanding

and effectively implementing digital transformation will be crucial for achieving sustainable growth and maintaining competitive advantage.

Concept of Good Governance.

Good governance is a multifaceted concept that encompasses various principles and practices aimed at ensuring effective, ethical, and accountable management of public resources and affairs. According to the United Nations Development Programme (UNDP), good governance is characterized by participation, transparency, responsiveness, consensus orientation, equity and inclusiveness, effectiveness and efficiency, accountability, and adherence to the rule of law (UNDP, 2023). These principles serve as benchmarks for assessing the quality of governance in any society.

In the context of Nigeria, scholars have critically examined the application and challenges of good governance. Obani (2023) highlights the persistent issues of corruption, insecurity, and poor infrastructural facilities that hinder Nigeria's economic transformation, despite its abundant natural and human resources. Similarly, Okonkwo and Chukwuemeka (2024) discuss the limited role of civil society organizations in promoting good governance, attributing this to the government's perception of these organizations as threats rather than partners. Furthermore, Igbokwe-Ibeto and Osakede (2023) emphasize the need for reforms in Nigeria's public service, advocating for professionalism, capacity building, and a zero-tolerance approach to corruption to enhance good governance.

Roelofs (2023) offers a critical perspective by challenging the Western-centric definitions of good governance, proposing instead a model that is socially embedded and locally grounded. Through fieldwork in Nigeria, Roelofs argues that governance practices should reflect the lived experiences and expectations of Nigerian citizens, rather than being imposed externally. This approach underscores the importance of context-specific frameworks in understanding and implementing good governance.

Obani (2023), on his own describe good governance as the ethical and accountable management of a nation's affairs, wherein institutions uphold transparency, respect for the rule of law, and prioritize the well-being of citizens through inclusive and participatory decision-making.

Ibrahim et al. (2025) analysed good governance from institutional and technological points of view by defining good governance as the institutional ability to use legal frameworks, digital technologies, and civic engagement to ensure public accountability and effective delivery of services."

Theoretical Framework.

Digital Era Governance Theory.

A pertinent theoretical framework for analysing digital transformation and good governance in Nigeria is the Digital Era Governance (DEG) theory, which was developed by Patrick Dunleavy, Helen Margetts, Christopher Tinkler, and Steve Bastow in 2006. This theory emerged as a response to the limitations of New Public Management, advocating for a more integrated, citizen-centric approach to public administration

The theory posited that public administration should evolve to fully leverage digital technologies, enabling more efficiency, transparency, and responsive government operations. The theory is grounded in three core principles, some of which are reintegration which involves bringing previously outsourced or fragmented services back under direct government control, ensuring cohesive and coordinated public service delivery The second aspect is the Needs-Based Holism, which opines that governments should reorganize around distinct client groups, focusing on delivering services that meet the specific needs of citizens rather than adhering to traditional departmental silos. The third part is digitalization, which advocates for the exploitation of digital storage and internet communications as an essential component to transform governance, thereby facilitating seamless information flow and enhancing service accessibility. In Nigeria, the adoption of DEG

principles can significantly impact governance. For instance, the National Digital Economy Policy and Strategy (2020–2030) aims to transform Nigeria into a leading digital economy, emphasizing the importance of digital infrastructure and services in public administration. However, challenges such as inadequate infrastructure, digital illiteracy, and resistance to change hinder the full realization of DEG's potential in the country (Oghuvbu, 2023).

Strengths of Digital Era Governance Theory

- Enhanced Efficiency: By integrating services and leveraging digital tools, DEG can streamline government operations, reducing redundancies and improving service delivery.
- Increased Transparency: Digital platforms facilitate greater transparency, allowing citizens to access information and hold public officials accountable.
- Improved Responsiveness: A needs-based approach ensures that government services are tailored to the specific requirements of different citizen groups, enhancing satisfaction and trust.

Weaknesses of Digital Era Governance theory

Despite its strengths, DEG faces the following limitations:

- Implementation Challenges: The transition to DEG requires significant investment in digital infrastructure and capacity building, which may be resource-intensive and time-consuming.
- Digital Divide: Disparities in access to technology and digital literacy can exclude certain populations from benefiting equally from digital governance initiatives (Oghuvbu, 2023).
- Resistance to Change: Bureaucratic inertia and lack of political will can impede the

adoption of DEG principles, delaying the transformation process

In summary, the above theory provides a comprehensive framework for understanding and implementing digital transformation in public administration. While its application in Nigeria presents certain challenges, the theory's emphasis on integration, citizen-centric services, and digitalization offers a promising pathway toward achieving good governance in the digital age.

Digital Transformation and Good Governance in Nigeria: An Analytical Overview.

Digital transformation has emerged as a pivotal strategy for enhancing governance in Nigeria, aiming to address systemic inefficiencies, corruption, and service delivery challenges. The Nigerian government has initiated several reforms to digitalize public administration, including the 3 million Technical Talent (3MTT) Programme launched in October 2023, which seeks to train three million Nigerians in technical and digital skills by 2027 (NITDA, 2023). Additionally, the National Information Technology Development Agency (NITDA) has outlined a Strategic Roadmap and Action Plan 2.0 (SRAP 2024–2027), focusing on fostering digital literacy, enhancing cybersecurity, and promoting inclusive access to digital services (NITDA, 2024). These initiatives underscore the government's commitment to leveraging technology for improved governance.

However, the path to effective digital governance in Nigeria is fraught with challenges. Infrastructure deficits, particularly in rural areas, hinder the widespread adoption of digital services. According to a report by Business Day (2024), broadband penetration stood at 43.53% in March 2024, with significant portions of the population, especially in remote areas, lacking reliable internet connectivity. This digital divide exacerbates inequalities in access to government services. Moreover, cybersecurity remains a critical concern, as evidenced by the Nigeria Data Protection Commission's (NDPC) fine of Fidelity Bank for data breaches in 2024,

highlighting vulnerabilities in the country's digital infrastructure (Reuters, 2024).

Despite these hurdles, digital transformation holds promise for enhancing transparency and accountability in Nigerian governance. A study published in Emerald Insight (2022) suggests that digital transformation can be a solution to improving transparency and accountability in governance. The implementation of technologies such as blockchain is also being explored to revolutionize governance and enhance transparency (Vanguard News, 2023). Furthermore, the hosting of the International Conference on Theory and Practice of Electronic Governance (ICEGOV) 2025 in Nigeria signifies the country's growing leadership in digital governance (Federal Ministry of Communications, Innovation & Digital Economy, 2025).

conclusively, while Nigeria's digital transformation efforts are commendable, achieving good governance through technology requires overcoming significant infrastructural and systemic challenges. Continued investment in digital infrastructure, capacity building, and regulatory frameworks is essential to realize the full potential of digital governance in Nigeria.

Benefits of Digital Transformation to Good Governance

The benefits of digital transformation to good governance in Nigeria can never be over emphasized, as the process has transformed the governance system in the country to a more organised and accessible one, thereby ensuring ease in the relm of public administration. specifically, the following are some of the identified benefits of digital transformation to good governance in Nigeria

1. Enhanced Efficiency and Productivity

Digital transformation significantly improves the efficiency and productivity of government operations. By automating routine tasks and streamlining workflows, digital tools reduce administrative overhead and expedite

decision-making processes. For instance, the Queensland Parliamentary Service's adoption of a comprehensive ERP system through Technology One has led to improved process efficiency and data-driven decision-making (Phillips, 2023). Similarly, in Uttar Pradesh, India, the integration of digital platforms has simplified public services, resulting in a significant increase in monthly users from 800 to over 11,000 (Shukla, 2023). Citizen service platforms further support this trend by reducing reliance on paper-based workflows and enabling real-time service delivery (Citizenserve Editorial Team, 2023).

2. Increased Transparency and Accountability: Digital transformation enhances transparency by making government processes more accessible and traceable. Estonia's "once-only principle" exemplifies how digital systems minimize redundant bureaucratic steps while making data accessible to citizens in real time, fostering accountability and trust (Greenfield, 2023). Moreover, digital tools that integrate with government registries offer automated audits, reducing opportunities for corruption and increasing administrative integrity (SLS GovTech Team, 2023).

3. Improved Citizen Engagement

Digital platforms such as mobile apps and e-portals foster stronger connections between governments and their constituents. These systems enable citizens to provide feedback, request services, and participate in decision-making processes more conveniently. Deloitte's research emphasizes that tailoring services to specific population segments improves inclusivity and responsiveness (Deloitte Center for Government Insights, 2023). In tandem, platforms like Citizenserve enhance digital responsiveness and accessibility (Citizenserve Editorial Team, 2023).

4. Data-Driven Decision Making

Governments today rely on real-time data to formulate and adapt policies more effectively. The U.S. government's investment in AI illustrates how machine learning can enhance decision-making across sectors such as health, infrastructure, and security (Scott, 2023).

These technologies empower policymakers to identify patterns, forecast needs, and deliver more targeted public services

5. Cost Savings and Resource Optimization

Digital transformation reduces operating costs by eliminating paper-based systems, optimizing workflows, and leveraging cloud solutions. Queensland's collaboration with Technology One demonstrates how digitization can lead to financial savings while maintaining high service standards (Phillips, 2023). Citizen serves also notes how integrated digital platforms improve resource allocation and budgeting across departments (Citizenserve Editorial Team, 2023).

6. Enhanced Security and Data Protection

With the expansion of digital government systems, cybersecurity has become a central concern. Government agencies now employ encryption technologies, multi-factor authentication, and AI-based monitoring systems to protect data integrity. These strategies safeguard public trust and prevent data breaches (SLS GovTech Team, 2023; Citizen serve Editorial Team, 2023).

7. Agility and Innovation in Governance

Digital transformation enables governments to adapt quickly to emerging needs and technological changes. Innovations such as block chain, IoT, and predictive analytics help public institutions become more responsive and future-ready. These tools improve service delivery, reduce operational lag, and allow governments to proactively address challenges (Wavetec Research Team, 2023; SLS GovTech Team, 2023).

Digital transformation plays a critical role in strengthening good governance. From efficiency and accountability to citizen engagement and innovation, technology enhances the ability of governments to deliver better services and adapt to changing societal needs. The continued integration of digital tools—if inclusive and secure—will ensure a more transparent, responsive, and cost-effective public sector

Challenges Facing Digital

Transformation In Nigeria

Digital transformation in Nigeria is encountering several significant challenges that hinder its full potential. One of the primary obstacles is inadequate infrastructure, particularly in rural areas where access to reliable electricity and high-speed internet is limited. This digital divide not only affects individuals but also hampers businesses from leveraging digital tools effectively.

Another critical issue is the lack of digital literacy among a substantial portion of the population. Many Nigerians, especially in underserved regions, are not equipped with the necessary skills to navigate digital platforms, which impedes their ability to participate in the digital economy.

Cybersecurity concerns also pose a significant threat to digital transformation efforts. The increasing frequency of cyberattacks and data breaches raises questions about the safety and privacy of digital platforms, deterring both users and businesses from fully embracing digital solutions.

Furthermore, regulatory and policy frameworks in Nigeria often lag behind technological advancements. The absence of clear and supportive policies can create an uncertain environment for businesses and investors, slowing down the adoption of digital technologies.

Lastly, financial constraints are a persistent challenge. The high cost of digital tools and services, coupled with limited access to funding, particularly for small and medium-sized enterprises (SMEs), makes it difficult for many to invest in necessary digital infrastructure and skills development.

Addressing these challenges requires a concerted effort from both the public and private sectors to invest in infrastructure, education, cybersecurity, policy development, and financial support to foster a more inclusive and robust digital transformation in Nigeria.

Conclusions

Digital transformation has the potential to significantly enhance governance in Nigeria by improving efficiency, transparency, and citizen engagement. The Nigerian government has initiated

several programs aimed at fostering a digital economy, such as the 3 Million Technical Talent (3MTT) programme, which aims to train three million Nigerians in technical and digital skills by 2027. Additionally, the National Information Technology Development Agency (NITDA) has outlined a Strategic Roadmap and Action Plan 2.0 (SRAP 2024–2027) focusing on digital literacy, infrastructure development, and cybersecurity.

However, challenges persist, including inadequate infrastructure, particularly in rural areas, and a digital divide that limits equitable access to digital services. Furthermore, issues such as cyber threats and the need for robust policy frameworks remain obstacles to achieving comprehensive digital governance.

Recommendations

1. **Infrastructure Development**: To bridge the digital divide, the government should prioritize the expansion of broadband connectivity, especially in underserved rural areas. The proposed national fibre project, aiming to deploy 90,000 kilometres of fibre-optic cables, is a step in the right direction .

2. **Digital Literacy and Skills Training**: Expanding initiatives like the 3MTT programme and the Digital Literacy for All initiative can equip Nigerians with the necessary skills to participate in the digital economy. Collaborations with educational institutions and the private sector can enhance the effectiveness of these programs .

3. **Cybersecurity Measures**: Strengthening cybersecurity frameworks is crucial to protect digital infrastructure and build public trust. Implementing advanced security protocols and conducting regular audits can mitigate risks associated with cyber threats.

4. **Policy and Legal Frameworks**: Developing and enforcing policies that support digital transformation, such as data

protection laws and e-governance regulations, can provide a conducive environment for digital initiatives to thrive.

5. **Public-Private Partnerships**: Encouraging collaborations between the government and private sector can lead to innovative solutions and efficient service delivery. Initiatives like the NITDA Digital State Initiative, which trains youths in digital skills, exemplify the benefits of such partnerships.

By addressing these areas, Nigeria can harness the full potential of digital transformation to achieve good governance and sustainable development.

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