

# E-Governance and Development in Africa

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DOI: <https://dx.doi.org/10.47772/IJRISS.2024.804073>

Received: 07 March 2024; Accepted: 13 March 2024; Published: 06 May 2024

## ABSTRACT

This paper delved into the intricate relationship between e-government and development in Africa, assessing the impact of international politics, foreign aid, and global dynamics on e-governance projects. Challenges spanning financial constraints, inadequate legal frameworks, technological disparities, cyber security threats, and the need for local-context-driven strategies emerge as prominent hurdles.

The paper employed a comprehensive literature review that investigated the nexus between e-governance and development in Africa; with a particular focus on the influence of international politics. It was revealed that successful e-government implementation can lead to reduced corruption, increased transparency, and revenue growth.

The paper also discovered that African countries often rely on foreign aid for such projects, and global power dynamics influence technology adoption and infrastructure development, presenting implementation challenges. It was further established that African countries face challenges that include financial constraints, inadequate legal frameworks, infrastructural deficiencies, and implementation hurdles. Key recommendations include establishing robust monitoring mechanisms, prioritizing investment in e-governance, enhancing capacity building, diversifying funding sources, and addressing systemic challenges to facilitate effective e-governance implementation.

**Keywords:** Development, E-governance, international politics

## INTRODUCTION

The post-independent African states have undergone several political, infrastructural, and economic reforms, yet there needs to be more development to show for it (Chidoko, 2023). According to Teal (2021), Africa is by far one of the world's wealthiest continents, endowed with natural and mineral resources, but among the poorest in the world. Africa faces a lot of development hurdles, which are natural and many, but could be met via vibrant civil society and strong political commitment. Combating corruption, good governance, effective and productive civil service, democracy, and democratic principles were critical issues that need scholarly creativity to address Africa's challenges and offer alternative solutions to policymakers for socioeconomic development (Bojang, 2017).

The International Development donors have invested many resources in Africa's development. However, there is a slight improvement to show for it, which could be partly due to poor and unproductive public policies coupled with bad governance (Panford, 2017). Since the 1980s, key development partners such as the World Bank and the International Monetary Fund (IMF) have implemented several policies/measures to enhance Africa's development (Mkandawire & Soludo, 2014). Equally, in the 1990s, the United Nations Rio's conference in Brazil was significant as the term "Sustainable Development" was coined.

In the 21st century, the intersection of technology and governance has become a focal point for countries

striving for sustainable development (Miller, 2019). E-Governance, the electronic administration of governmental processes, has emerged as a transformative tool promising efficiency, transparency, inclusivity, and development (Koltay et al., 2021). E-governance encompasses using digital tools and platforms to enhance government services, which has become a pivotal point in the region's development discourse (Fonou-Dombeu et al., 2013). The U.S Congress (2002) e-Government Act defines e-government as "the use by the government of web-based Internet applications and other information technologies, combined with processes that implement these technologies, to enhance the access to and delivery of government information and services to the public, other agencies, and other government entities and bring about improvements in government operations that may include effectiveness, efficiency, service quality, or transformation.

Electronic governance or e-governance enhances and supports the delivery of government services, improves efficiency, and promotes transparency and citizen participation (Rawat& Yusuf, 2020) .E-governance can play a crucial role in the overall development of a nation (Du et al., 2018). Development refers to a comprehensive and integrated approach to progress that encompasses various aspects of society, economy, environment, and culture (Lakshman & Tisdell, 2000). Development goes beyond mere economic growth and considers the well-being of individuals, communities, and the overall sustainability of the nation (Valenzuela, 2023). Development aims to create a balanced and inclusive society where all citizens can live fulfilling lives.

E-governance creates a more favorable environment for business by simplifying regulatory processes, reducing bureaucratic hurdles, and fostering a business-friendly ecosystem (Devine et al., 2021). In an increasingly globalized world, where information technology has become one of the critical determinants of growth, many African countries face new challenges due to the emerging information age. While e-governance has gained momentum globally, its effectiveness in Africa is influenced by various political, economic, and social dimensions. The interplay between e-governance initiatives and international politics in Africa has yet to be comprehensively explored. This study aims to assess the nexus between e-governance and development in Africa critically, Explore how international politics, including foreign aid, diplomatic relationships, and global power dynamics, influence the planning, execution, and success of E-Governance projects in Africa, and reveal the challenges faced by African countries in implementing E-Governance. By examining the relationship between E-Governance and development in Africa, policymakers can gain insights into practical strategies for implementation and potential policy adjustments. The paper contributes to the academic discourse on the intersection of technology, governance, and international relations, providing a nuanced understanding of the challenges and opportunities in the African context.

## **E-Governance: A Conceptualization with Historical Background**

E-Governance, or electronic governance, refers to using information and communication technologies (ICTs) to enhance and support the delivery of government services, streamline administrative processes, and promote transparency and citizen participation (Kettani& Moulin, 2014). E-Governance involves the integration of digital technologies into the functioning of government institutions to improve efficiency, accessibility, and the overall quality of governance (Milakovich, 2021). Governments have existed for centuries, initially relying on manual processes and face-to-face interactions. Governance was largely paper-based, making administrative processes time-consuming and less efficient. The advent of telecommunication technologies in the 19th and 20th centuries allowed faster communication, but administrative processes still relied heavily on traditional methods (O'Regan, 2021).

The widespread use of computers in the latter half of the 20th century marked a significant shift. Governments began adopting basic automation for tasks, but electronic governance was still in its infancy (Marín Hlynsdóttir, 2022). The late 20th century saw the rise of the Internet, providing a platform for more

advanced and interconnected systems (Padua, 2020). E-Governance refers to using information and communication technologies (ICTs) to enhance government services and processes' efficiency, transparency, and effectiveness (Shava & Vyas-Doorgapersad, 2023).

E-governance includes digital services that allow online services to citizens, businesses, and government entities, including online tax filing, permit applications, and e-procurement (Kholid & Sari, 2022). It provides timely and accurate information to the public through digital platforms and a platform where citizens are involved in decision-making through online platforms, surveys, and feedback mechanisms.

In essence, e-governance encompasses the application of ICTs to enhance the efficiency, transparency, and effectiveness of government services and processes, which includes digital services facilitating online interactions for citizens, businesses, and government entities, such as online tax filing, permit applications, and e-procurement (Kholid & Sari, 2022). E-governance also ensures the timely and accurate dissemination of information to the public through digital platforms (Kud, 2022). Moreover, e-governance establishes a platform for citizen involvement in decision-making through online mechanisms, surveys, and feedback channels (Sangil, 2022). Overall, e-governance represents a paradigm shift in governance, leveraging digital technologies to optimize public services and citizen participation.

## Overview of Development

Development refers to various contexts, including economic, social, personal, or software development (Nogueira, 2019). Economic development is the process by which a nation improves its people's economic, political, and social well-being, often involving measures to increase productivity, enhance living standards, and reduce poverty (Seth & Villar, 2018). Key indicators include GDP growth, employment rates, and income distribution.

According to Wineburg and Poole (2019), social development focuses on improving the quality of life for individuals and communities, including education, healthcare, housing, and social services. Achieving social development goals often involves addressing inequality, access to resources, and social justice ((Midgley, 2020). Personal development is the ongoing process of self-improvement and self-awareness which encompasses activities and strategies that help individuals enhance their skills, knowledge, and overall quality of life (Sandua, 2023). This can include formal education, training, goal setting, and personal reflection. Human development is a broader concept that includes economic, social, and personal development that emphasizes the improvement of human capabilities, well-being, and potential (Hartmann, 2018). The Human Development Index (HDI) is a widely used measure that combines indicators like life expectancy, education, and income to assess overall human development (Alekseeva et al., 2019). Sustainable development is a holistic approach that seeks to meet the needs of the present without compromising the ability of future generations to meet their own needs (Gigauri et al., 2023). Sustainable development addresses economic, social, and environmental concerns, promoting long-term balance and resilience ((Saliba, 2016). Global development refers to efforts to improve the well-being of people worldwide, which often involves international cooperation, foreign aid, and initiatives to address global challenges such as poverty, hunger, and climate change (UNDP, 2020). Development is a multifaceted concept that spans various contexts, each with its unique focus and objectives, which consider economic, social, personal, human, and global development.

## E-Government and Development in Africa

E-governance has been embraced in many developing countries to improve traditionally dysfunctional government services and to enable more effective governance arrangements. Governments in developing

countries are pursuing e-governance for its developmental benefits. E-governance in developing countries has focused on the various ways information and communication technologies (ICTs) might transform public administration to achieve efficiency, cost-effectiveness, corruption control, and the modernization of public services (Morelli, 2022). ICTs might promote exclusion by amplifying existing socioeconomic inequalities and power structures. Notwithstanding their exclusionary potential, ICTs have been adopted to achieve socioeconomic inclusion for vulnerable groups (Hu et al., 2019). The fulcrum in which good governance can improve income distribution is through e-governance. Adam (2020) argued that increased mobile phones and internet levels could reduce bureaucracy, which can mitigate income inequality. The digitization of government processes in Africa contributes to economic development by creating a more business-friendly environment where business registration, licensing, and permit applications can attract investments and promote entrepreneurship (Osiobe, 2022).

E-governance in developing countries is being utilized to improve education and healthcare services (Gurleen, 2021). E-governance facilitates the delivery of public services more efficiently and timely. Online platforms can be used for services such as tax payments, permit applications, and social welfare programs, reducing bureaucracy and wait time and enabling citizens to participate in decision-making processes, provide feedback, and voice their concerns, thereby promoting a more inclusive form of governance (Gupta et al., 2023). Online databases and portals can give citizens real-time access to government data, budgets, and expenditures, promoting accountability.

Successful implementation of e-governance in Africa would lead to better delivery of government services to citizens, improved interactions with businesses and industries, citizen empowerment through access to information, or more efficient government management and bring about social-economic development (Misra et al., 2021). The resulting benefits of e-governance in Africa can be less corruption, increased transparency, greater convenience, revenue growth, and cost reductions of government funds (Ivanyna & Salerno, 2021). E-Government will help African countries bridge gaps, increasing transparency and accountability in the government system. However, despite the above-stated benefits of e-governance, it still needs to overcome a daunting challenge at the implementation level, especially in Africa, where most basic facilities still need improvement.

E-Governance adoption in developing countries, including Africa, addresses inefficiencies in public services, corruption, and exclusion (Haque et al., 2017). Its successful implementation drives economic growth, enhances education and healthcare services, and fosters citizen engagement (White, 2023). However, challenges persist, especially in infrastructural deficiencies and implementation hurdles.

### **International Politics on E-Governance in Africa**

E-Governance, the use of information and communication technology (ICT) to enhance the efficiency and effectiveness of government operations, has become increasingly important in the global political landscape. In Africa, where diverse challenges and opportunities coexist, adopting e-governance can transform governance structures and contribute to international political dynamics (Meena, 2021). E-Governance projects, aimed at leveraging technology to enhance government services and efficiency, have become crucial in the development strategies of African nations (Ghosh, 2020).

However, the success of E-Governance projects is significantly influenced by international politics, encompassing foreign aid, diplomatic relationships, and global power dynamics (Adelaiye, 2022). Many African nations heavily rely on foreign aid to initiate and sustain E-Governance projects ((Watkins, 2021). Donor countries and international organizations often attach conditionality to their aid, influencing the direction and priorities of these initiatives. The arrangement of E-Governance projects with donors'

geopolitical interests can impact African nations' autonomy in planning and implementing their digital governance strategies (Park, 2018). Diplomatic ties between African nations and other countries influence collaboration on E-Governance projects, with agreements and partnerships formed through diplomatic channels that can lead to shared resources, knowledge exchange, and joint initiatives (Zabalgoitia&Tenorio, 2023).

Positive diplomatic relationships can facilitate the smooth execution of E-Governance projects with technologically advanced nations and may result in the transfer of expertise, technology, and best practices. The success of E-Governance initiatives is tied to the ability of African nations to navigate global power dynamics effectively by adapting to changing geopolitical landscapes, and building resilient systems is crucial for sustained success (Wadhwa, 2023). E-Governance in Africa is intricately linked to the international political landscape (Chaudhuri, 2014). E-government initiatives often require collaboration with international partners, including tech companies and foreign governments, which fosters global cooperation and can lead to sharing best practices and resources (Huang &Quibria, 2015). E-governance can attract foreign investment and contribute to economic development, stable and transparent governance systems that make African countries more attractive to international businesses (Gómez-Mera et al., 2014).

According to Hassan (2020), African nations continue to embrace digital solutions; they position themselves to play a more prominent role in the global political arena, fostering collaboration and economic development on an international scale.

E-Governance projects in Africa are linked to international politics, including foreign aid, diplomatic relations, and global power dynamics (Malacalza, 2019). Foreign aid conditions, diplomatic ties, and global interests influence the direction and success of these initiatives, impacting African nations' autonomy in planning and execution.

### **Challenges of E-Governance Africa and International Politics**

Implementing e-government in African countries faces several challenges, many of which are intertwined with international politics (Morita & Matsumoto, 2021). Kone and Mapitsa (2021) asserted that while E-Governance can enhance efficiency, transparency, and citizen engagement, the following challenges are noteworthy in Africa, especially when considering international political dynamics. Many African countries face financial constraints that limit their ability to invest in E-Governance infrastructure and initiatives. International aid and cooperation are crucial to overcoming these financial barriers (Maimbo et al., 2011).

According to Babalola (2023), inadequate legal e-governance frameworks and regulations in Africa regarding data protection and privacy may pose significant challenges; however, international cooperation helps share best practices and develops common standards in this regard. International political dynamics, including geopolitical tensions, can indirectly affect the political climate in these nations.

Dependency on foreign aid for implementing e-government initiatives can sometimes lead to a loss of control over the development agenda; hence, aligning e-government strategies with the interests of donor countries may introduce biases (Khemraj, 2017). This is because the interests of donor countries may sometimes align with the interests of recipient countries, which can introduce biases in e-governance strategies. The influence of global powers in shaping international policies and norms regarding technology and governance can impact how African countries approach and implement E-Governance (Gumisiriza, 2022). Striking a balance between adopting international best practices and tailoring solutions to local needs is crucial.

Access to stable internet connectivity and technological infrastructure remains uneven across Africa, and



international politics can influence infrastructure development through aid, investment, or technological cooperation, impacting the spread of e-governance (Mubila&Yepes, 2017). E-governance systems are vulnerable to cyber threats, including hacking, data breaches, and misinformation campaigns; therefore, African collaboration at the international level is essential to develop robust cybersecurity measures and protocols to safeguard sensitive government data and citizen information (Utzerath& Dennis, 2021). The alignment of international political agendas with African nations' developmental needs and goals is critical for overcoming these obstacles and realizing the potential benefits of e-governance across the continent.

## **Theoretical Framework**

E-governance and development in Africa through the lens of international politics involves several theoretical frameworks that could be applied. However, the study employs the modernization and technology acceptance model. The modernization theory merged in the mid-20th century, primarily associated with scholars like Walt Rostow in the 1950s and 1960s. The modernization theory posits that society progresses through defined stages of development, moving from traditional to modern forms (Cernea, 2019).

E-governance initiatives in Africa align with the modernization process; these technologies facilitate economic growth, social change, and political stability (Rushambwa &Ndhlovu, 2023). Factors such as access to technology, literacy rates, political stability, and infrastructure development heavily impact the success and adoption of e-governance initiatives in African countries (wuzie & Monyane, 2020). Therefore, while modernization theory might provide some insights, it might need to fully encapsulate the intricacies and challenges in implementing e-governance in Africa.

The Technology Acceptance Model (TAM) is a theoretical framework developed by Fred Davis in 1989 to explain and predict users' acceptance and adoption of new information technology systems. TAM posits that perceived ease of use and perceived usefulness are the primary determinants of users' attitudes and intentions toward using a particular technology.

In the context of e-government and development in Africa, TAM is used to understand the factors influencing the adoption of electronic governance systems by citizens, government officials, and other stakeholders. According to Zubir and Abul (2023) by assessing users' perceptions of the ease of use and usefulness of e-government services, policymakers and researchers can identify barriers to adoption and design strategies to enhance the implementation and effectiveness of such systems. The application of TAM in the African context has contributed to a deeper understanding of the socio-technical factors influencing e-government initiatives on the continent (Hamutoğlu, 2020).

## **CONCLUSION AND RECOMMENDATIONS**

The infusion of African e-governance initiatives intersects with foreign aid, diplomatic relations, and global power dynamics. Donor countries and international organizations play pivotal roles in initiating and sustaining these projects, often attaching conditions that influence their direction and priorities. Diplomatic ties with technologically advanced nations also shape collaboration and resource sharing in these ventures. However, such international entanglements sometimes challenge the autonomy of African nations in shaping their digital governance strategies.

Challenges persist on various fronts: financial constraints, inadequate legal frameworks for data protection, uneven technological infrastructure, cybersecurity threats, and a delicate balance between adopting international best practices and tailoring solutions to local needs. These challenges, while daunting, present

opportunities for reimagining e-governance strategies in alignment with local contexts while navigating the complexities of global dynamics.

The quest for effective e-governance in Africa necessitates a delicate balance between leveraging technological advancements and navigating the intricate web of international politics. Addressing these challenges requires local innovation, strategic collaborations, and adaptations to global power dynamics. The discourse on e-governance remains pivotal in shaping Africa's development narrative, aiming not just for economic growth but for holistic progress that uplifts the well-being of its citizens.

### **Based on the content analysis, the paper recommends the following;**

1. African states should establish robust monitoring and evaluation mechanisms to track the effectiveness of implemented political, infrastructural, and economic reforms. This will help identify gaps and areas for improvement, leading to more targeted interventions to accelerate development progress
2. African governments should prioritize investment in e-governance by allocating sufficient resources and political will initiatives as a strategic tool for combating corruption, increasing transparency, and fostering revenue growth;
3. Governments and relevant stakeholders should invest in capacity building and training programs to equip personnel with the necessary skills and knowledge to effectively implement and manage e-governance initiatives;
4. African nations should explore diversifying funding sources for e-governance projects to reduce dependence on foreign aid and mitigate the impact of global power dynamics. This may involve leveraging domestic resources, public-private partnerships, and innovative financing mechanisms to ensure sustainable investment in e-governance infrastructure and technology.
5. Finally, African governments must address systemic challenges such as financial constraints, inadequate legal frameworks, infrastructural deficiencies, and implementation hurdles that impede the effective implementation of e-governance initiatives.

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