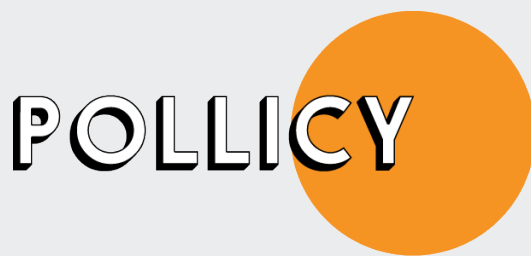


Policy Brief:

Building Public Trust in Africa's Data-Driven Initiatives



AFRICA DATA GOVERNANCE HUB



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Summary

This policy brief delves into the factors shaping public trust in data-driven initiatives across Africa, drawing on insights from case studies in Senegal and Rwanda. It emphasizes the pivotal roles of transparency, accountability and active public engagement in cultivating trust. To address these needs, key policy recommendations include reinforcing data governance frameworks, advancing data literacy and adopting better communication strategies.

Data-driven development holds immense promise for transforming public services and fostering economic growth on the continent.¹ Yet, its success relies on establishing and sustaining public trust. This brief outlines the elements that influence this trust and provides actionable strategies to strengthen it to ensure the long-term impact and acceptance of data-driven initiatives.

Factors influencing public trust

Public trust in data-driven development initiatives is a complex issue shaped by at least three critical factors, namely (1) how people perceive the benefits of using data, (2) their concerns about privacy and security, and (3) their confidence in government institutions.

These factors are revealed by the experiences of Senegal and Rwanda with the Resilient Dakar and Health Information Exchange systems, respectively.

Comparative Analysis:

Senegal's Resilient Dakar vs. Rwanda's Health Information Exchange

Factor	Senegal's 'Resilient Dakar' Initiative ¹	Rwanda's Health Information Exchange ²
Focus	Urban development	Healthcare delivery
Data Privacy Concerns	Present	Present
Transparency and Accountability	Moderate	High
Community Involvement	Limited	High

¹ <https://resilientcitiesnetwork.org/dakar/>

² <https://ohie.org/impact-stories/creating-a-health-information-exchange-system-in-rwanda/>

The capital city of Senegal has implemented the ‘Resilient Dakar’ initiative to enhance urban management and public services. This initiative includes data-driven systems for managing traffic, energy efficiency, sanitation and urban planning. The program was launched in collaboration with the Rockefeller Foundation and aims to improve the quality of life for the public while promoting sustainable development.

Rwanda Health Information Exchange System was introduced as part of the government’s broader e-health strategy to streamline and improve healthcare services. This system facilitates the secure electronic sharing of patient information across healthcare facilities and providers, improving patient care, minimizing redundant procedures, and enabling faster access to patient data. The initiative has been supported by the Rwandan Ministry of Health in collaboration with the World Health Organization and Partners In Health.³

Both initiatives prioritize public engagement to ensure successful implementation. ‘Resilient Dakar’ emphasizes broad stakeholder involvement, fostering ownership and aligning with community needs through inclusive workshops and awareness campaigns. This approach aims to build consensus and ensure the resilience strategy reflects the diverse needs and expectations of Dakar’s public and businesses. Similarly, the Rwandan government focuses on public education to address concerns about the HIE, particularly data privacy. By emphasizing the benefits of improved healthcare delivery and highlighting data protection measures, including legal and regulatory frameworks, Rwanda seeks to alleviate fears and promote public acceptance of the HIE. While “Resilient Dakar” focuses on building consensus and ownership, Rwanda’s strategy centers on addressing specific concerns and building trust through transparent data protection measures.

They have also faced a range of challenges in their respective implementations. “Resilient Dakar” struggles with effectively integrating resilience strategies into existing urban planning frameworks, securing sustainable funding, and maintaining consistent public engagement in a dynamic urban environment. In Rwanda, the HIE faces obstacles related to technology infrastructure, training healthcare providers, and ensuring data security. These challenges highlight the complexities of implementing large-scale initiatives, requiring careful planning, resource allocation and continuous adaptation to overcome barriers and achieve desired outcomes.

The experiences of Senegal and Rwanda in implementing their initiatives—Resilient Dakar and the Health Information Exchange (HIE)—highlight key factors that drive public trust in data-driven programs. Three critical elements stand out: perceived benefits, privacy concerns, and confidence in government.

In Senegal, the Resilient Dakar initiative showed that public support grows when people experience clear, practical improvements in their daily lives and safety. Tangible benefits make a strong case for engagement. On the other hand, Rwanda’s success with the HIE emphasized the need to address privacy concerns through data protection and transparent policies that reassure citizens their personal information is secure.

Both initiatives also underscored the importance of government credibility. In Rwanda, competent management of the HIE system built confidence, while Senegal’s inclusive approach to resilience planning fostered trust in the process. Together, these examples demonstrate that recognizing benefits, protecting privacy, and ensuring government reliability are indispensable for gaining and maintaining public trust in data-driven initiatives.

Policy recommendations

To build trust in Africa's growing data-driven initiatives, addressing the challenges requires focused strategies across three key domains: governance, public engagement and technology. Each domain is pivotal in safeguarding the integrity of public information while promoting their involvement in data-driven innovations.

Governance

The 'Resilient Dakar' initiative shows the importance of integrating resilience strategies with broader urban planning efforts under a governance framework. Similarly, Rwanda's implementation of HIE under strict legal and regulatory guidelines underscores the need for strong governance structures. Incorporating harmonization of regulation and the role of the African Union into the policy framework, we see that the 'Resilient Dakar' initiative and Rwanda's HIE exemplify the need for a cohesive regulatory environment across Africa. These case studies underscore the significance of integrating local data initiatives within broader regulatory frameworks that are consistent and standardized across borders. This is especially pertinent in regions where data crosses geopolitical lines, necessitating a unified approach to data governance. These authorities should oversee compliance and provide a recourse for complaints, thus ensuring that the systems in place are both effective and trusted by the public.

Engagement

Rwanda's approach to HIE, which included extensive public education on the benefits and security measures of the system, illustrates how transparency and proactive public engagement can build trust. By implementing clear data usage policies and conducting regular impact assessments, governments can ensure that initiatives are transparent and accountable. Furthermore, as seen in Dakar, involving a wide range of stakeholders through public consultations and workshops can foster a sense of shared responsibility and trust in data-driven projects.

Technology

Drawing lessons from Rwanda's Health Information Exchange (HIE) initiative, it is evident that the success of technology adoption in data-driven projects hinges on an informed and skilled user base. In Rwanda, training healthcare providers and administrative staff to securely and efficiently operate HIE systems played a vital role in cultivating trust and proficiency in managing sensitive health information. This underscores the need for significant investments not just in cybersecurity infrastructure, but also in expansive educational initiatives.

Such educational programs should focus on improving the data literacy of both citizens and government personnel. By empowering individuals to understand and responsibly manage digital data, these efforts help demystify technology, reduce resistance to digital transformation, and establish a stronger foundation for data protection. Enhanced data literacy fosters confidence and engagement, making it easier to align public and institutional practices with emerging technologies.

In parallel with data literacy, rigorous cybersecurity measures are essential. Practices like regular security audits, vulnerability testing, and the use of encryption techniques help safeguard the integrity and confidentiality of digital systems. Together, these measures reinforce public trust in digital frameworks, creating a more secure and inclusive environment for technological advancements.

By aligning with the African Union Data Governance Framework, which provides guidance on harmonizing data policies across the continent, and the Global Digital Compact's principles of inclusivity, trust, and human-centered digital development, they can address the core drivers of trust— perception of benefits, privacy concerns and confidence in government. This alignment will lay a solid foundation for a thriving, secure, and trusted data economy across the continent. A collaborative and committed approach that leverages these frameworks will help unlock the full potential of digital transformations in Africa.

Implications of the study

The findings of this study carry significant implications for policymakers, practitioners, and researchers, offering guidance across policy design, organizational behavior, and technological advancement. By identifying the key factors that shape public trust, policymakers can craft strategies tailored to build confidence in data-driven initiatives. These strategies should reflect the diverse socio-cultural and economic landscapes of African nations, fostering trust while advancing digital inclusion.

Practitioners, including private sector actors and international development organizations, can leverage these insights to align their data practices with ethical norms. This alignment involves adhering to local regulations and addressing the concerns of citizens regarding data privacy, security, and equity. Additionally, emerging technologies present opportunities to enhance public participation in digital systems, bridging the gap between innovation and trust.

For researchers, these findings pave the way for further exploration of trust dynamics in the digital era. Continued investigation will provide valuable, evidence-based recommendations to guide future developments. Ultimately, this study lays the groundwork for an equitable and trusted data-driven economy which is an essential building block for inclusive growth and innovation across Africa.

References

1. Mobile Economy Report SSA - The Mobile Economy. GSMA (2023). Retrieved from <https://www.gsma.com/mobileeconomy/sub-saharan-africa>
2. World Bank Group. (2021). Harnessing the Potential of Digital Development in Africa. Retrieved from <https://documents.worldbank.org>
3. Senegal Smart City Development Framework. Ministry of Digital Economy, Senegal. (2020). Retrieved from <https://www.sec.gouv.sn>
4. Rwanda Health Information Exchange System Report. Ministry of Health Rwanda. (2020). Retrieved from <https://www.moh.gov.rw>
5. UNESCO. (2019). Data for Good: Leveraging Data-Driven Development in Africa. UNESCO Report. Retrieved from <https://en.unesco.org>

Further reading

- OECD. (2021). Trust in Data Governance and Digital Inclusion. OECD Digital Economy Papers. Retrieved from <https://www.oecd.org/digital/>
- Data Privacy in Africa. African Union Commission. (2020). African Union Convention on Cybersecurity and Personal Data Protection. Retrieved from <https://au.int/en/treaties>
- Transparency International. (2020). Public Trust and Accountability in Governance. Transparency International Africa Chapter Report. Retrieved from <https://www.transparency.org>
- World Economic Forum. (2020). The Role of Data in Driving Economic Growth in Africa. Retrieved from <https://www.weforum.org>
- ITU. (2021). Bridging the Digital Divide in Sub-Saharan Africa: Policy Recommendations. International Telecommunication Union Report. Retrieved from <https://www.itu.int>

