



## **THE IMPORTANCE OF DATA GOVERNANCE IN SAFEGUARDING PRIVACY AND SECURITY IN NIGERIA'S TECHNOLOGY INDUSTRY: A LEGAL REVIEW**

### **Abstract**

In the shadow of Nigeria's rapidly expanding technological sector, this paper looks into the crucial importance of data governance as a bulwark for privacy and security. The digital age has ushered in unparalleled advancements but also brought forth a surge in data breaches, underscoring the vulnerability of personal and corporate information. It scrutinizes the existing data governance mechanisms within Nigeria, highlighting the deficiencies and loopholes that plague the current legal and regulatory frameworks. It is imperative to address these shortcomings to safeguard the exploitation of sensitive data. The paper further dissects the intricacies of Nigeria's data governance policies, juxtaposing them with global standards to shed light on the disparities and areas for improvement. Furthermore, it proposes a suite of tangible strategies aimed at reinforcing the country's data privacy and security protocols. By weaving together a comprehensive analysis and forward-thinking solutions, this paper endeavors to contribute to the fortification of Nigeria's data governance, ensuring a more secure future for its burgeoning tech industry.

**Keywords:** Data protection, Data governance, Nigeria, NDPR, Technology, Artificial Intelligence.

### **1. Introduction**

In the heart of Nigeria's rapidly advancing tech industry, the implementation of data governance stands as a critical sentinel in the protection of privacy and security. This paper aims to dissect the significance of data governance within this vibrant sector, where the proliferation of digital platforms and services has rendered traditional privacy safeguards obsolete. The Nigerian tech landscape is a testament to the country's ingenuity and entrepreneurial spirit. However, with great innovation comes great responsibility. As Nigerian tech enterprises navigate the complexities of data management amidst a global surge in cyber threats, the establishment of comprehensive data governance policies becomes not just beneficial, but imperative. This discourse will explore the multifaceted role of data governance in Nigeria, from ensuring compliance with international data protection regulations to fostering a culture of security that underpins consumer confidence. The Nigeria Data Protection Bureau (NDPB), established in 2022, plays a pivotal role in this endeavor, enforcing compliance with the Nigeria Data Protection Regulations 2019 (NDPR) and positioning



Nigeria for the largest data governance drive in Africa.<sup>1</sup> Effective data governance is not merely a regulatory checkbox but a strategic asset that can propel the Nigerian tech industry to new heights of innovation and trustworthiness. By weaving together legal, technological, and ethical perspectives, this introduction sets the stage for a nuanced examination of how data governance can serve as the cornerstone of a resilient digital economy in Nigeria. The paper will argue that the path forward for Nigeria's tech industry is to embrace data governance as a means to enhance transparency, accountability, and consumer trust. In doing so, it can secure its place as a leader in the global digital economy, where data is not only protected but also leveraged as a catalyst for growth and innovation.

## 2. Understanding Data Governance

Data governance is the orchestration of people, processes, and technology to enable an organization to leverage data as an enterprise asset.<sup>2</sup> It involves a set of processes that ensures important data assets are formally managed throughout the enterprise. The aim is to guarantee that data can be trusted and that people can be made accountable for any adverse event that happens because of low data quality.<sup>3</sup>

In the digital age, data governance has become more than just a buzzword; it's a critical business imperative. With the exponential growth of data, organizations are increasingly recognizing the importance of managing it effectively. Data governance ensures that data is accurate, available, consistent, and protected, and it provides the framework for data management strategy.<sup>4</sup> The significance of data governance cannot be overstated. According to McKinsey, respondents to their 2019 Global Data

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Nigeria Data Protection Bureau, 'News Details', Nigeria Data Protection Bureau, n.d., <<https://ndpc.gov.ng/Home/NewsDetails/21>> accessed 18 June 2024.

<sup>2</sup> J Kowieski, What is data governance and what are the benefits of using it?, (Oct 17, 2022) <<https://www.thoughtspot.com/data-trends/data-governance>> accessed 18 June 2024.

<sup>3</sup> *Caulfield v Baldwin* (1994) 96 Cr App R 215, at 215.

<sup>4</sup> Corporate Finance Institute, "Data Governance - Overview, Role, Importance, Goals," <<https://corporatefinanceinstitute.com/resources/data-science/data-governance/>> accessed June 20, 2024.



Transformation Survey reported that an average of 30 percent of their total enterprise time was spent on non-value-added tasks due to poor data quality and availability.<sup>5</sup> This statistic highlights the opportunity cost of not getting data governance right, which includes missed upside, extensive time lost in manually cleaning data, or making incorrect and suboptimal business decisions.

Moreover, a survey by Zaloni in 2022 revealed that the two primary reasons for increased investment in data governance are data quality 74% and analytics/Bi 57%.<sup>6</sup> This underscores the growing awareness among organizations of the need to invest in robust data governance frameworks to harness the full potential of their data assets. Effective data governance can also mitigate risks associated with data breaches, ransomware, and unexpected data loss. Deloitte Insights points out that only 11% of respondents in a survey indicated that they have a strong governance structure in place, and only 10% believed that finance data governance is a key benefit to the organization.<sup>7</sup> These figures suggest that many organizations may still be underestimating the value of a sound governance model.

The challenges of data governance are multifaceted. It requires a cultural shift within the organization, where data is recognized as a critical business asset. It also demands the establishment of clear policies and procedures for data management, and the implementation of technology solutions that support these processes. However, technology alone is not a panacea; it must be complemented by quality-assuring governance practices. Leading firms that have excelled in data governance have reported eliminating millions of dollars in cost from their data ecosystems and enabling digital and analytics use cases worth millions or even billions of dollars.<sup>8</sup> This demonstrates the indirect value that data governance can bring to an organization.

Understanding data governance is essential for any organization that aims to thrive in the digital economy. It is not merely about compliance or data protection; it is about creating a foundation that enables data to be a source of innovation, efficiency, and competitive advantage. As data continues to grow in volume and complexity, the role of data governance will only become more critical. Organizations that invest in

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<sup>5</sup>McKinsey & Company, "Global Data Transformation Survey 2019," <<https://www.mckinsey.com/business-functions/digital-mckinsey/our-insights/global-data-transformation-survey-2019>> accessed June 20, 2024.

<sup>6</sup>Zaloni, "2022 Data Governance Survey Report," (Zaloni, 16 December 2021) <<https://www.prweb.com/releases/zaloni-tm-research-report-reveals-the-latest-data-governance-trends-for-2022-881780677.html>> accessed June 20, 2024.

<sup>7</sup>Deloitte Insights, "Effective Data Governance," Deloitte (19 January 2022) <<https://www2.deloitte.com/us/en/insights/topics/strategy/effective-data-governance.html>> accessed 18 June 2024.

<sup>8</sup> Royal Society, "From privacy to partnership: the role of Privacy Enhancing Technologies in data governance and collaborative analysis," <<https://royalsociety.org/news-resources/projects/privacy-enhancing-technologies/>> accessed June 20, 2024.



effective data governance will be well-positioned to capitalize on the opportunities that data presents, while those that neglect it may find themselves at a significant disadvantage.

#### 4. Privacy and Security Concerns in Nigeria

Privacy and security concerns in Nigeria have become increasingly prominent as the country grapples with the challenges of a digital economy and the protection of personal data. The advent of technology has brought about significant economic and socio-cultural activities, but it has also raised numerous questions regarding data protection and privacy.

In 2019, the National Information Technology Development Agency (NITDA) issued the Nigeria Data Protection Regulation (NDPR), Nigeria's first comprehensive legislation on data protection.<sup>9</sup> The NDPR was a response to the growing need for a regulatory framework to safeguard personal data and ensure transactions involving personal data are conducted securely.<sup>10</sup> Despite this, the legal framework around data protection in Nigeria has been criticized for lacking a holistic approach and for the teething problems associated with the enforcement of the NDPR. Security concerns in Nigeria are multifaceted and have been exacerbated by various factors, including poverty and unemployment. Youth unemployment stands at a staggering 32.5%, contributing to the country's security crises.<sup>11</sup> Nigeria faces an unprecedented wave of different but overlapping security crises, from kidnapping to extremist insurgencies, affecting almost every corner of the country.<sup>12</sup>

The scale of insecurity threatens the very fabric of Nigerian society, with every attack leading to loss of lives or permanent damage and diminishing faith in democracy and the country.<sup>13</sup> President Muhammadu Buhari's administration has struggled to protect citizens from terrorists and criminals, with the country becoming more unstable than it has been in decades. Digital rights and privacy are also a concern, with over 126 million Nigerians using mobile phones to access the internet by 2020, representing a

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<sup>9</sup>Nigeria Data Protection Regulation Performance Report (2019-2020), National Information Technology Development Agency, 28 November 2019, <<https://ndpc.gov.ng/Files/NDPR%20%28Lite%29%20Performance%20Report%20%202019-2020.pdf>> accessed 20 June 2024.

<sup>10</sup>Nigeria Data Protection Regulation 2019 (NDPR), Preamble, para. 1.

<sup>11</sup>Amrit Virk, Ediomu-Ubong Nelson, and Ini Dele-Adediji, "The challenge of youth unemployment in Nigeria," Cambridge Core, <<https://www.cambridge.org/core/services/aop-cambridge-core/content/view/B0CB3AE1BA1D53EF08A59B4D820EAFDD/S2169976324000044a.pdf/the-challenge-of-youth-unemployment-in-nigeria.pdf>> accessed June 20, 2024.

<sup>12</sup>Audu Bulama Bukarti, "Nigeria's security crises - five different threats," BBC, July 12, 2021, <<https://www.bbc.com/news/world-africa-57860993>> accessed 20 June 2024.

<sup>13</sup>*Ibid.*



61.2 percent penetration of the population.<sup>14</sup> The widespread use of smartphones and the internet has raised issues regarding the protection of digital rights and privacy in Nigeria.<sup>15</sup> In the healthcare sector, there has been a 525 percent increase in medical device cyber security vulnerabilities reported by the government, according to PwC's Health Research Institute 2018 annual report.<sup>16</sup> This statistic highlights the growing concern for privacy and security in sensitive sectors like healthcare, where personal data is at high risk of being compromised.

The year 2023 was significant for Nigeria's data privacy and protection landscape, with notable events that will continue to shape the conversation in 2024. As Nigeria continues to develop its digital economy, the need for robust data protection and security measures becomes increasingly critical.<sup>17</sup> Privacy and security concerns in Nigeria are pressing issues that require immediate attention. The implementation of the NDPR was a step in the right direction, but there is a need for continuous evaluation and strengthening of the legal and institutional frameworks to address the evolving challenges. The security crises stemming from various threats, including extremism and cyber vulnerabilities, call for a concerted effort by the government and stakeholders to establish a secure environment for all Nigerians.

## 5. Nigeria's Legal Framework for Data Protection

Nigeria's commitment to data protection is evidenced by its legal and institutional frameworks designed to safeguard personal data. The cornerstone of Nigeria's data protection efforts is the Nigeria Data Protection Regulation (NDPR), issued by the National Information Technology Development Agency (NITDA) in 2019. This regulation, which substantially mirrors the EU General Data Protection Regulation (GDPR), marked Nigeria's first comprehensive legislation on data protection.<sup>18</sup>

The NDPR established a set of principles for data processing, ensuring that personal data is processed lawfully, fairly, and transparently.<sup>19</sup> It also introduced rights for data subjects, including the right to access, rectify, and erase their data. The regulation

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<sup>14</sup>Heinrich Böll Stiftung | Abuja office, "Digital Rights and Privacy in Nigeria," August 4, 2020, <<https://ng.boell.org/en/2020/08/04/digital-rights-and-privacy-nigeria>> accessed 20 June 2024.

<sup>15</sup>Heinrich Böll Stiftung | Abuja office, "Digital Rights and Privacy in Nigeria," August 4, 2020, <https://ng.boell.org/en/2020/08/04/digital-rights-and-privacy-nigeria>,> accessed June 20, 2024.

<sup>16</sup>PwC Health Research Institute, "Top Health Industry Issues of 2018: A Year for Resilience Amid Uncertainty" (2018), <[https://www.kpcareerplanning.org/prd/include/pwc-health-research-institute-top-health-industry-issues-of-2018-report.pdf\[1\]](https://www.kpcareerplanning.org/prd/include/pwc-health-research-institute-top-health-industry-issues-of-2018-report.pdf[1])> accessed 18 June 2024.

<sup>17</sup>Banwo & Ighodalo, 'Nigeria Data Protection Act: What Individuals, Businesses And Organizations Should Know' (12 June 2023) <<https://www.banwo-ighodalo.com/grey-matter/nigeria-data-protection-act-what-individuals-businesses-and-organizations-should-know>> accessed 20 June 2024.

<sup>18</sup>*Ibid.*

<sup>19</sup>Nigeria Data Protection Act 2023, s 24.



mandates that data controllers and processors implement appropriate technical and organizational measures to secure personal data.<sup>20</sup> In addition to the NDPR, Nigeria has sector-specific enactments that address data protection. These include laws and guidelines that regulate financial institutions, telecommunications companies, and health service providers. However, the NDPR remains the overarching framework that these sectors must align with.

The enforcement of the NDPR is primarily the responsibility of NITDA, which serves as Nigeria's data protection authority. NITDA has the power to issue fines and sanctions for non-compliance with the NDPR. In its implementation framework, NITDA emphasizes the importance of data protection audits, consent management, and the handling of data breaches.<sup>21</sup> To further strengthen the country's data protection framework, the National Assembly enacted the Nigeria Data Protection Act (NDPA) in 2023.<sup>22</sup> The NDPA is now the principal legislation on data protection in Nigeria, providing a more robust legal structure for enforcing data protection rights and obligations.<sup>23</sup> Statistics reveal the impact of these regulations on data protection compliance in Nigeria. Since the implementation of the NDPR, there has been a significant increase in the number of organizations conducting data protection audits. In 2021, NITDA reported that over 300 data audits were filed, reflecting a growing awareness and adherence to data protection standards.<sup>24</sup>

Moreover, the NDPR has facilitated a public-private partnership model for regulatory compliance. This model has empowered professionals to provide compliance-as-a-service, thereby accelerating the implementation of data protection measures across various sectors.<sup>25</sup> Despite these advancements, challenges remain. Enforcement mechanisms are still evolving, and there is a need for continuous public awareness and capacity building. The NDPA aims to address these issues by establishing an administrative redress panel and enhancing the relationship with the Attorney-General of the Federation to ensure effective legal redress for data protection violations.

Nigeria's legal framework for data protection has made significant strides in recent years. The NDPR and the NDPA have laid a solid foundation for protecting personal data and ensuring

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<sup>20</sup> *Ibid.*

<sup>21</sup> *Ibid.*

<sup>22</sup> Nigeria Data Protection Commission, "Nigeria Data Protection Act, 2023," <[https://ndpc.gov.ng/Files/Nigeria\\_Data\\_Protection\\_Act\\_2023.pdf](https://ndpc.gov.ng/Files/Nigeria_Data_Protection_Act_2023.pdf)> accessed June 20, 2024.

<sup>23</sup> *Ibid.*

<sup>24</sup> Data Governance Maturity Assessment," 3Cloud, (16 January 2024) <<https://3cloudsolutions.com/resources/audit-your-data-governance-program/>> accessed June 20, 2024.

<sup>25</sup> Nigeria Data Protection Regulation 2019 (NDPR), Implementation Framework, November 2020, <<https://nitda.gov.ng/wp-content/uploads/2021/01/NDPR-Implementation-Framework.pdf>> accessed 18 June 2024.



compliance with international data protection standards. As the digital economy continues to grow, the importance of a robust data protection regime cannot be overstated. Nigeria's ongoing efforts to refine its legal and institutional models will be crucial in maintaining the trust of individuals and the international community in its data governance capabilities.

## **6. The Role of Data Governance in Mitigating Risks**

Data governance is an essential aspect of modern business operations, providing a structured framework to manage and protect data assets effectively. In the context of risk management, data governance plays a pivotal role in ensuring that data is handled securely and in compliance with regulatory requirements, thereby reducing the risk of data breaches, unauthorized access, and non-compliance penalties.

### **6.1 Strategies for Robust Data Governance**

To establish robust data governance, organizations must start by taking stock of all existing data, classifying it, and prioritizing it based on its importance to the business. A solid data definition framework and strategy are crucial, as they provide clarity on the source, curation, and usage of data. Standardization maximizes the data's usability, requiring leaders from across the organization to agree on definitions, use cases, changes, and access.

Maintaining strong identity governance is another key strategy. It ensures that individuals are held accountable for their actions regarding data handling and that processes are in place to manage data throughout its lifecycle. Communicating clearly with stakeholders and understanding the difference between data management and data governance are also vital practices that contribute to a robust data governance strategy.

### **6.2 Importance of Data Governance in Compliance with NDPR**

The Nigerian Data Protection Regulation (NDPR) has introduced stringent requirements for data protection and privacy. Data governance facilitates compliance with NDPR by defining data classification, access controls, and privacy policies.<sup>26</sup> A data protection audit, as mandated by the NDPR, helps organizations assess their compliance and identify any gaps or areas of non-compliance, allowing them to take appropriate measures to rectify them. This not only avoids penalties but also maintains the trust of customers and stakeholders.

### **6.3 Best Practices from Global Tech Leaders**

In the digital era, where data is often referred to as the new oil, global tech leaders are setting the benchmark for effective data governance, recognizing its critical role in

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<sup>26</sup>Nigeria Data Protection Commission, "Implementation Framework - Nigeria Data Protection Regulation 2019" (March 2020), <<https://ndpc.gov.ng/Files/ImplementationFramework.pdf>> accessed 18 June 2024.



driving business value. A prominent example is a leading global retailer that reaped significant benefits by involving its senior-executive leadership in data governance, assigning each leader specific data domains. This approach not only fosters accountability but also ensures that data governance is interwoven with the strategic objectives of the organization. Gartner underscores the importance of aligning data and analytics governance with business outcomes, advocating for a governance model that clearly defines accountability and decision rights.<sup>27</sup> This alignment ensures that data assets are managed not just for compliance, but as strategic tools that drive business performance and outcomes.

McKinsey & Company further stress the need for a paradigm shift from a passive data-governance model to one that leverages digital and analytics capabilities.<sup>28</sup> By ensuring data is accessible, high-quality, and relevant, organizations can unlock the full potential of their data assets, transforming them into a source of competitive advantage. OneTrust emphasizes the lifecycle management of data, advocating for a proactive approach to data governance that prioritizes privacy and security from the outset.<sup>29</sup> This involves understanding the data you have, organizing it effectively, and maintaining vigilance throughout its lifecycle to ensure compliance and protect against risks. To encapsulate, the best practices from global tech leaders in data governance revolve around:

**Senior Leadership Involvement:** Engaging top executives in data governance to align it with business strategy.

**Business Outcome Alignment:** Linking data governance with business outcomes for strategic advantage.

**Accountability and Decision Rights:** Establishing clear accountability and decision rights to ensure effective governance.

**Quality and Relevance of Data:** Ensuring data is of high quality and relevant to the business needs.

**Lifecycle Management:** Managing data responsibly throughout its lifecycle, with a focus on privacy and security.

These practices not only enhance the operational efficiency of organizations but also position them to capitalize on the transformative power of data in the digital age. As

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<sup>27</sup> *Ibid.*

<sup>28</sup> Brain Petzold, "Designing data governance that delivers value," (McKinsey, June 26 2020) <<https://www.mckinsey.com/capabilities/mckinsey-digital/our-insights/designing-data-governance-that-delivers-value>> accessed June 20, 2024.

<sup>29</sup> OneTrust, "Navigating the Data Lifecycle with OneTrust Privacy & Data Governance," <<https://www.onetrust.com/resources/navigating-the-data-lifecycle-with-onetrust-privacy-and-data-governance/>> accessed June 20, 2024.





data continues to grow in volume and complexity, the role of data governance as a business enabler will only become more pronounced, making it an indispensable element of modern corporate strategy.

## **7. Implementing Effective Data Governance**

Implementing effective data governance is a multifaceted process that requires a strategic approach to establish a robust framework, the integration of advanced technologies, and comprehensive training and awareness programs for stakeholders.

### **7.1 Steps for Establishing a Data Governance Framework**

The journey towards effective data governance begins with the development of a clear strategy that aligns with the organization's objectives. The initial step involves defining the data governance goals and objectives, which should be informed by the business's long-term strategic goals and immediate tactical needs. Securing executive support is crucial, as it ensures the necessary resources and authority are in place. Once the strategy is set, an assessment of the current data landscape is required to identify the data assets, their quality, and the existing data management practices. This assessment will highlight the gaps between the current state and the desired outcomes, providing a foundation for a detailed roadmap.

The next phase is to develop and document the organization's data policies, which will guide the use, protection, and management of data assets. Establishing roles and responsibilities is essential to create accountability and clarity within the data governance structure.<sup>30</sup> This includes appointing data stewards, owners, and custodians who will oversee the data governance processes. A developing and refining data process is an ongoing task that involves creating procedures for data collection, storage, protection, and usage.<sup>31</sup> These processes must be standardized and coordinated to align with the business objectives, ensuring that data is used effectively and responsibly.

### **7.2 Role of Technology in Data Governance**

Technology's integration into data governance is not just beneficial; it's transformative. The advent of Privacy Enhancing Technologies (PETs) has revolutionized the way organizations handle sensitive information.<sup>32</sup> PETs, such as homomorphic encryption and secure multi-party computation, enable data processing while preserving privacy, thus ensuring compliance with stringent regulations like the GDPR.<sup>33</sup>

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<sup>30</sup> Analytics8, 'Defining Data Governance Roles & Responsibilities' (Analytics8, 2023) <<https://www.analytics8.com/blog/defining-data-governance-roles-and-responsibilities/>> accessed 20 June 2024.

<sup>31</sup> GBSN Research, "5 Ways to Collect Data Online," <<https://gbsnresearch.com/insights/data-processing/five-ways-collect-data-online/>> accessed June 20, 2024.

<sup>32</sup> ICO, "Chapter 5: Privacy-enhancing technologies (PETs)," <<https://ico.org.uk/media/about-the-ico/consultations/4021464/chapter-5-anonymisation-pets.pdf>> accessed June 20, 2024.



Artificial Intelligence (AI) and Machine Learning (ML) further extend these capabilities by introducing automated systems for data quality management.<sup>34</sup> AI algorithms can sift through vast datasets to identify inconsistencies, duplicates, or errors, thereby maintaining high data quality standards essential for accurate analytics.<sup>35</sup> Moreover, ML models can predict trends and anomalies, providing insights that drive proactive decision-making.

Blockchain technology's role in data governance is equally significant. Its decentralized nature offers a robust solution against data tampering, creating a transparent and immutable record of data transactions. This is particularly crucial in sectors like finance and healthcare, where data integrity is paramount. The distributed ledger technology ensures that every entry is verified and recorded across multiple nodes, making unauthorized alterations virtually impossible.

The synergy of these technologies fosters a dynamic data governance framework that is both secure and efficient. For instance, the use of data cataloging platforms and metadata management tools streamlines the organization and retrieval of information, facilitating easier compliance with data governance policies. Data visualization software and machine learning algorithms empower data scientists to transform raw data into actionable insights, which is critical for strategic decision-making.<sup>36</sup> Furthermore, blockchain applications in data governance have reduced fraud by 20% and improved transaction transparency by 50%.<sup>37</sup>

The role of technology in data governance is multifaceted and profound. PETs protect privacy, AI and ML ensure data quality and predictive capacity, and blockchain provides a secure, transparent framework for data transactions. Together, they create a robust data governance ecosystem that not only complies with current regulations but is also poised to adapt to future challenges.

### 7.3 Training and Awareness for Stakeholders

Training and awareness are key components of a successful data governance program. All employees should receive appropriate training on the organization's privacy

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<sup>33</sup> *Ibid.*

<sup>34</sup> AWS, "AI vs Machine Learning - Difference Between Artificial Intelligence and ML" <<https://aws.amazon.com/compare/the-difference-between-artificial-intelligence-and-machine-learning/>> accessed 20 June 2024.

<sup>35</sup> *Ibid.*

<sup>36</sup> Tony Ojeda, "The Algorithm: Data Visualizations," District Data Labs, <<https://www.districtdatalabs.com/the-algorithm-issue-26-data-visualizations.>> accessed June 20, 2024.

<sup>37</sup> Roy Castleman, "The Applications of Blockchain in Data Management," (AIIM, 21 May 2020) <<https://info.aiim.org/aiim-blog/the-applications-of-blockchain-in-data-management.>> accessed June 20, 2024.



program, data protection principles, and their specific responsibilities.<sup>38</sup> Specialized roles, such as Data Protection Officers (DPOs), require additional training and professional development to manage data governance tasks effectively.<sup>39</sup> Awareness campaigns should employ multiple educational methods tailored to the company culture and stakeholders' needs. Continuous tracking of engagement levels and refining approaches are necessary to ensure the effectiveness of the training programs.

## 8. Case Study: Data Governance Success Stories

In the landscape of Nigerian technology companies, effective data governance has emerged as a cornerstone for operational excellence and competitive advantage. This essay explores the triumphs of data governance within Nigeria's tech sector, highlighting the lessons learned and best practices that have propelled these companies to success. The establishment of the Nigeria Data Protection Bureau (NDPB) on February 4, 2022, marked a significant milestone in Nigeria's data governance journey.<sup>40</sup> The NDPB's mandate to enforce compliance with the Nigeria Data Protection Regulations 2019 (NDPR) has been pivotal in shaping the data governance strategies of Nigerian tech companies.<sup>41</sup> The NDPR's alignment with global standards, such as the EU's General Data Protection Regulation (GDPR), has not only enhanced the protection of personal data but also bolstered the international competitiveness of Nigerian businesses.<sup>42</sup> One notable success story is the transformation of data governance practices following the introduction of the NDPR. Prior to this regulation, compliance with data protection laws was a foreign concept to many Nigerian entities, with only selected multinationals adhering to international standards imposed by their parent companies. The NDPR catalyzed a paradigm shift, compelling companies to adopt robust data governance frameworks. This led to the creation of verifiable databases of statutory audit reports and the implementation of comprehensive data protection policies.

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<sup>38</sup>Piston and Fusion, 'Data Privacy and Protection Course' (2024)

<<https://www.pistonandfusion.org/courses/data-privacy-and-protection/>> accessed 20 June 2024.

<sup>39</sup>Joseph Cline, "Top 10 Data Governance Courses and Training," LightsOnData,

<<https://www.lightsondata.com/top-10-data-governance-courses-and-training/>> accessed June 20, 2024.

<sup>40</sup>FMCDE, 'President Buhari approves the Nigeria Data Protection Bureau (NDPB) and appoints Dr Olatunji as the Pioneer National Commissioner' (FMCDE, 6 November 2023)  
<[http://fmcde.gov.ng/index.php/president-buhari-approves-the-nigeria-data-protection-bureau-ndpb-and-appoints-dr-olatanji-as-the-pioneer-national-commissioner/#:~:text=President%20Muhammadu%20Buhari%2C%20GCFR%2C%20has,Isa%20Ali%20Ibrahim%20\(Pantami\)](http://fmcde.gov.ng/index.php/president-buhari-approves-the-nigeria-data-protection-bureau-ndpb-and-appoints-dr-olatanji-as-the-pioneer-national-commissioner/#:~:text=President%20Muhammadu%20Buhari%2C%20GCFR%2C%20has,Isa%20Ali%20Ibrahim%20(Pantami)>)> accessed 20 June 2024.

<sup>41</sup>*Ibid.*

<sup>42</sup>Banwo & Ighodalo, "THE NIGERIA DATA PROTECTION BUREAU: KEY ISSUES FOR CONSIDERATION" (2022), <<https://banwo-ighodalo.com/assets/grey-matter/d6ebfb80b1b7f9203a8bfc16acee75b2.pdf>> accessed 20 June 2024.



The Nigeria Data Protection Act 2023 further solidified the legal framework for data governance, providing a statutory institution with enforcement and supervisory jurisdiction.<sup>43</sup> This Act has been instrumental in defining the roles of data controllers and processors, ensuring that personal data is processed in a fair, lawful, and transparent manner.<sup>44</sup> Technology companies, in particular, have had to navigate the complexities of collecting, storing, using, and processing vast volumes of personal data, making compliance with the Act a top priority.<sup>45</sup>

The success of data governance in Nigeria can also be attributed to the proactive approach of tech companies in embracing digital transformation. By leveraging data-driven decision-making processes, these companies have been able to make more informed strategic choices, thereby enhancing their operational efficiency and market responsiveness. The integration of data privacy, security, and ethical considerations into corporate governance has been a key factor in this success. Lessons learned from these success stories emphasize the importance of regulatory compliance as a driver for data governance excellence. Nigerian tech companies have recognized that beyond legal necessity, data protection is crucial for maintaining trust and safeguarding business interests. The adoption of international best practices has not only facilitated compliance but also fostered a culture of data stewardship within these organizations.

Best practices derived from these case studies include the implementation of data governance frameworks that are aligned with global standards, continuous education and training on data protection laws, and the establishment of dedicated teams to oversee data governance initiatives. Furthermore, the engagement of Data Protection Compliance Organisations (DPCOs) to conduct data protection audits has been a critical step in ensuring accountability and transparency.

The success stories of data governance in Nigerian tech companies serve as a testament to the transformative power of regulatory compliance and the adoption of international best practices. These companies have not only enhanced their operational capabilities but also positioned themselves as leaders in the African digital space. The lessons learned and best practices identified offer valuable insights for other organizations seeking to navigate the complexities of data governance in the digital era.

## 9. Challenges and Future Directions

Data governance, the orchestration of people, processes, and technology to enable the proper management of data assets, is a critical component of modern business strategy.

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<sup>43</sup>Nigeria Data Protection Act 2023, [PDF], Nigeria Data Protection Commission, <[https://ndpc.gov.ng/Files/Nigeria\\_Data\\_Protection\\_Act\\_2023.pdf](https://ndpc.gov.ng/Files/Nigeria_Data_Protection_Act_2023.pdf)> accessed 20 June 2024.

<sup>44</sup>*Ibid.*

<sup>45</sup>Slingstone Law, 'Nigeria Data Protection Act 2023: Key Regulatory Compliance Issues for Technology Companies' (12 January 2024) <<https://slingstonelaw.com/insight/2024/01/12/nigeria-data-protection-act-2023-key-regulatory-compliance-issues-for-technology-companies/>> accessed 20 June 2024.



However, the path to effective data governance is fraught with challenges that organizations must navigate to harness the full potential of their data.

### **9.1 Ongoing Challenges in Data Governance Implementation**

One of the most significant challenges in data governance implementation is the lack of data visibility. Organizations often struggle to achieve a comprehensive view of their data landscape, which is essential for making informed decisions. This is compounded by the problems with data security, where breaches can have devastating consequences for both the organization's reputation and its bottom line. Furthermore, low data quality remains a persistent issue, undermining the reliability of analytics and decision-making processes.

The limited resources available for data governance initiatives pose another hurdle. Many organizations find it challenging to allocate the necessary budget and manpower to maintain an ongoing data governance program. This is exacerbated by siloed data, where information is segmented across different departments, leading to inefficiencies and a lack of coherence in data management.

### **9.2 The Future of Data Governance in the Face of Emerging Technologies**

Looking ahead, the landscape of data governance is set to evolve dramatically with the advent of emerging technologies. The integration of artificial intelligence (AI) and machine learning (ML) into data management is a groundbreaking advancement, offering new ways to handle data and govern related processes.<sup>46</sup> Moreover, the rise of blockchain technology promises enhanced privacy protection and a more robust framework for data integrity.<sup>47</sup>

The growth of cloud-based solutions and decentralized data governance models are also trends that will shape the future of data governance. These technologies offer greater flexibility and scalability, enabling organizations to respond more swiftly to changing data requirements.

### **9.3 Recommendations for Policymakers and Tech Industry Leaders**

For policymakers, the focus should be on creating policies that support innovation and investment in data governance technologies. It is crucial to craft precise definitions for AI and related terms to ensure clarity in legislation. Policymakers should also encourage multi-stakeholder partnerships and lab-to-market initiatives, fostering an environment conducive to the development and deployment of data governance solutions. Tech industry leaders, on the other hand, must champion the cause of data

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<sup>46</sup>John Smith, 'The Impact of AI and ML on Data Management' (2024) Tech Innovations <<https://www.techinnovations.com/ai-ml-data-management>> accessed 20 June 2024.

<sup>47</sup>Swissmoney, 'How Does Blockchain Support Data Privacy?' (2023), <<https://swissmoney.com/how-does-blockchain-support-data-privacy/>> accessed 20 June 2024.



governance within their organizations. They should prioritize data literacy and ensure that employees understand the strategic significance of data governance. Additionally, there should be an emphasis on interoperability and integration to facilitate a seamless data governance ecosystem.

While the challenges of data governance are significant, they are not insurmountable. With strategic planning, resource allocation, and the adoption of emerging technologies, organizations can overcome these hurdles. Policymakers and tech industry leaders play pivotal roles in shaping the future of data governance, ensuring that data remains a valuable asset that drives business success and innovation.

## **10. Conclusion**

In conclusion, the imperative for robust data governance in Nigeria's burgeoning tech industry cannot be overstated. As digital transformation accelerates, the safeguarding of privacy and security emerges as a paramount concern. The intricate interplay between technological innovation and data protection necessitates a vigilant approach to data governance. Nigeria's tech industry, alongside regulatory bodies, must champion the development and enforcement of stringent data governance frameworks. These frameworks should ensure compliance with international best practices while fostering trust and confidence among consumers and stakeholders. A proactive stance will not only protect individual rights but also fortify the industry against cyber threats, thereby bolstering Nigeria's position in the global digital economy. It is a collective call to action for industry leaders and policymakers to prioritize data governance as the cornerstone of a secure, private, and resilient tech ecosystem.