

ISA Journal of Business, Economics and Management (ISAJBEM)

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Volume 2, Issue 3, May-Jun 2025

Human Resource Strategies, Talent Development, and Technological Innovation as Predictors of Organizational Performance in the Digital Era: Evidence from Kano Metropolis, Nigeria

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Received: 15.05.2025 | Accepted: 25.05.2025 | Published: 02.06.2025

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DOI: 10.5281/zenodo.15578096

Abstract

Original Research Article

ISSN: 3049-1835

This conceptual study examined the effects of Human Resource Strategies, Talent Development, and Technological Innovation on Organizational Performance. Researchers identified the importance of understanding how these variables impact the performance of firms operating in a global environment, both individually and collectively. To conduct the research, the study employed a conceptual design and integrated knowledge from previously published works to assess how the independent variables affect organizational outcomes. Findings indicated that Human Resource Strategies enhance employee engagement and productivity, Talent Development strengthens workforce competencies, and Technological Innovation improves operational efficiency. Moreover, the integrated application of these factors creates a synergistic effect that significantly boosts organizational performance. Based on these findings, the study recommends that organizations adopt a comprehensive approach that aligns HR strategies, continuous talent development, and technological advancements to sustain competitive advantage and improve performance. In brief, the study demonstrates that managing critical resources is crucial for organizations to succeed in today's digital world.

Keywords: Human Resource Strategies, Talent Development, Technological Innovation, Organizational Performance, Conceptual Study.

Citation: Jega, A. A., & Idris, A. M. (2025). Human resource strategies, talent development, and technological innovation as predictors of organizational performance in the digital era: Evidence from Kano Metropolis, Nigeria. *ISA Journal of Business, Economics and Management (ISAJBEM)*, 2(3), 233-239, May–June.

1.0 INTRODUCTION

In today's globalized and technology-driven economy, organizational performance has become a critical concern for both scholars and practitioners. As a result of digital transformation, businesses now face harder competition and feel more pressure to be efficient, creative and tough. Central to this transformation is the strategic deployment of human resource (HR) strategies, talent development initiatives, and technological innovation, which have been identified as vital levers for sustaining and enhancing organizational performance (Ghosh & Satyawadi, 2020). Businesses everywhere are using these aspects not just for daily workflows, but more importantly

as tools to boost their outcomes in productivity, customer service and employee satisfaction (Al-Dmour et al., 2021). In particular, technological innovation and agile HR practices have enabled firms to quickly adapt to dynamic business environments, thereby enhancing their competitiveness and operational efficiency (Nguyen et al., 2022). Nowadays, the importance of these variables has increased in Nigeria due to its challenges, high youth unemployment and rising entrepreneurship. He has found that both government and nongovernment offices in the country are increasingly ready to invest in digital systems and programs focused on training workforces and improving their abilities. However, despite these efforts, significant gaps remain in understanding how the

combined influence of HR strategies, talent development, and technological innovation can be harnessed to drive organizational performance, particularly in urban centers like Kano Metropolis. Most studies done in Nigeria have only explored small parts or the influence of innovation separately and apart from HR (Mohammed et al., 2022; Sundararajan et al., 2022). Furthermore, while economic studies on other regions are common, there is relatively little research in Northern Nigeria that relies on solid evidence.

Theoretically, while the Resource-Based View (RBV) and Human Capital Theory provide valuable perspectives on how organizations can leverage internal resources for competitive advantage, there remains a scarcity of interdisciplinary research that concurrently examines the strategic alignment of human resource strategies, talent development, and technological innovation in enhancing performance outcomes (Chatterjee et al., 2023; Mensah, 2021). Practically, many enterprises in Nigeria grapple with issues such as ineffective HR systems, underinvestment in talent development, and delayed adoption of new technologies, leading to performance bottlenecks (Eze et al., 2021). Tackling these challenges helps the RBV and dynamic capability frameworks by including developing countries in the discussion and supplies useful strategies for people involved in making business policies and decisions. This study is therefore conceptualized to explore the combined effects of human resource strategies, talent development, and technological innovation on organizational performance, using Kano Metropolis as a case study. People, processes and technology are examined here as key aspects in understanding how performance shapes up in the digital world. As a result of blending these ideas, the study addresses calls for more relevant models in business studies within Sub-Saharan Africa (Mensah, 2021; Sundararajan et al., 2022). It is expected that the findings from this research will play a role in academic studies and influence steps to improve performance in enterprises in Kano and similar locations in Nigeria.

1.1 Statement of the Problem

Currently, because of the dynamic work environment, it is especially hard for organizations in almost every sector, including those in emerging economies, to keep skilled workers, as this affects the success and quality of an organization's service (Bello et al., 2024). Among important reasons employees remain with a company worldwide are various HR actions, working conditions and attractive benefits for staff (Obasi & Yusuf, 2023). It has been proven that when people have below-par working conditions, fewer advancement chances and lack of exciting incentives, their desire to leave the healthcare or public sector reflect that need for improvement. The problem is much more serious in Nigeria since the medical profession experiences high levels of staff leaving, leading to a lack of workers for healthcare services. Notwithstanding the government's strategies and policies, the workforce problem still exists (Ibrahim & Gambo, 2024). The importance of indepth research considering all aspects of worker retention in public institutions has reached its highest point. Today's literature proposes that upskilling, reskilling and using new HR systems will help companies maintain their employees'

productivity (Shanmugam et al., 2024). While many researchers have examined what helps retain employees, the information pointed out that there are big gaps related to keeping medical staff in Kano State, Nigeria. In general, prior studies do not single out the main problems found in distinct regions or professions when discussing their findings (Nwankwo & Musa, 2024). While Mohammed et al. (2024) examined the transformation of IT skills in Kano state, the healthcare sector is yet to receive enough attention. On the other hand, global studies on HR management and organizational systems are widely discussed, however, not many have focused on how these systems work in resource-limited areas. There isn't much evidence to show how medical worker retention in Kano State is shaped by competition, infrastructure and staff management. Mohammed and Kumar(2022) pointed out that using local ideas for entrepreneurs and workers will help Nigeria build a sustainable economy, making this inquiry valuable. Addressing these areas is necessary to create strategies that can help keep employees at Kano State's hospitals.

Basically, if poor employee retention in healthcare is not resolved, it could greatly affect public health, the economy, and the development of society. This research, from a theoretical angle, adds to current theories of HRM by introducing global retention ideas in the context of Nigeria's health service. It combines recent strategies from HR, ongoing trends in workforce development, and guidelines for sustainability from entrepreneurship (Mohammed & Kumar, 2022). Similarly, the study matches the recommendation by Bala and Sulaiman (2024) for using evidence to address departures in Nigeria's public service. It is important to keep the local context in mind as statistics show that hospital staff in Kano change job every year at a rate of 35%, much higher than all other regions in Nigeria. Unless swift and backed-by-evidence steps are taken, the healthcare situation could worsen in the region. Therefore, the research is suitable and vital to instruct HRM policies and help maintain a robust medical workforce in Kano State.

1.3 Research Objectives

The specific objectives of this study are to:

- 1. Examine the effect of Human Resource Strategies on Organizational Performance.
- Assess the impact of Talent Development on Organizational Performance.
- 3. Evaluate the influence of Technological Innovation on Organizational Performance.
- 4. Investigate the combined effect of Human Resource Strategies, Talent Development, and Technological Innovation on Organizational Performance.

1.4 Research Questions

The study seeks to answer the following questions:

- 1. What is the effect of Human Resource Strategies on Organizational Performance?
- 2. How does Talent Development impact Organizational Performance?

- 3. What is the influence of Technological Innovation on Organizational Performance?
- 4. What is the combined effect of Human Resource Strategies, Talent Development, and Technological Innovation on Organizational Performance?

1.5 Significance of the Study

This study is significant as it provides empirical insights into how Human Resource Strategies, Talent Development, and Technological Innovation influence Organizational Performance. This book will advise managers and policymakers on how to introduce strategies that boost the productivity, creativity and competitiveness of employees. By using the results, scholars can address current shortcomings in research on how organizations perform in the Nigerian and African business sectors. Moreover, it will be helpful for both future researchers and leaders in organizations and governments when they look for ideas that encourage business growth and better operations.

2.1 Literature Review – Empirical Review

2.1.1 Human Resource Strategies and Organizational Performance

Empirical studies have consistently demonstrated a significant positive relationship between strategic human resource management (SHRM) practices and organizational performance. For instance, a study conducted on large multinational companies in Kenya found that SHRM practices, particularly training and development and compensation systems, are strong predictors of firm performance. In the United Arab Emirates, investigations among 40 companies discovered that good human resource strategies help improve how the organization performs. Adagbabiri and Okolie, when working in Nigerian oil and gas, found that the practices of human resource management have a positive and significant role in shaping organizational performance . Besides, Mohammed (2023) addressed how global trade management deals with various difficulties and confirmed that using effective human resources plays an important role in achieving positive results for organizations.

2.1.2 Talent Development and Organizational Performance

Today, talent development is a major factor in how an organization performs. Reviewing literature systematically found that organizations using formal training and development for workers have better performances and results within the company. The authors studied talent management's impact on company performance using data from two wire and cable firms in South-West Nigeria. Evidence collected shows that management of talents is important for a firm's success, as it accounts for roughly 62% of its results. These authors highlighted that new developments in entrepreneurship play a vital role in promoting sustainable development and achieving what an organization aims to do through the investment in the

skills of employees. They further revealed that companies must pay attention to how changes in business transformation encourage them to focus on key talent if they want to perform better today. Applying statistics, they show that developing employee talents improves the results of an organization.

2.1.3 Technological Innovation and Organizational Performance

The use of advancements in technology has a big impact on a company's success. According to Adeyeye (2019), technology affects the performance of manufacturing firms in Nigeria, mainly through their planning and marketing skills. They also highlighted in a study that utilizing technological improvements boosts the performance of an organization in today's digital world. Moreover, studies on combining organizational and technological innovation have shown that digital factories and automation increase return on sales and thus play a key role in a company's success. The authors completed a case study in Kano State, Nigeria, that focused on reskilling and up-skilling activities within the information technology and software development field. What they discovered shows that technology can increase an organization's achievements and ability to compete.

2.2 Theoretical Framework

2.2.1 Resource-Based View (RBV) Theory

Barney's 1991 theory, known as the RBV, points out that a company's ability to compete well depends on its ability to use and manage scarce, unique and non-replacable business resources. These resources, including human resources, organizational competencies, and innovative capabilities, directly influence firm performance. Now, research supports that in today's digital and knowledge economies, organizations benefit from a focus on employees and the use of new technology. According to the present study, Human Resource Strategies, Talent Development, and Technological Innovation are key resources in an organization. It is expected that properly using those strategies will improve how the organization operates, as described by Akong'o Dimba (2010) and Adeyeye (2019). In addition, according to Aliyu (2023), integrating management information systems with HR structures has been shown to increase both efficiency and performance.

Key implication for this study:

RBV theory justifies including Human Resource Strategies, Talent Development, and Technological Innovation as independent variables capable of enhancing Organizational Performance through their strategic value.

2.2.2 Human Capital Theory (HCT)

RBV theory justifies including Human Resource Strategies, Talent Development, and Technological Innovation as independent variables capable of enhancing Organizational Performance through their strategic value.

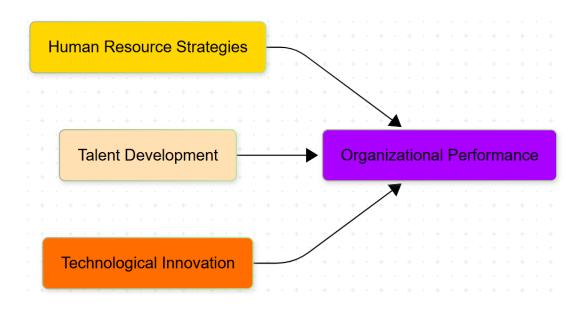
2.2.2 Human Capital Theory (HCT)

Becker's HCT (1964) considers that an employee's knowledge, abilities and skills affect how productive and prosperous the organization becomes. It is believed in the theory that supporting employees' learning and helping them master new technology allows an organization to continuously improve its performance. According to Aliyu, developing HR in health informatics leads to the creation of skilled healthcare staff needed for modern businesses to stay competitive. In addition, this study revealed that talent management and training are crucial for achieving good results in emerging economies. Additionally, given our current era of big data and advanced technology, ensuring that people in the workforce have essential technology skills is vital. Key implication for this study: HCT validates the centrality of Talent Development and

Technological Innovation as organizational investments in human capital that improve overall performance.

Figure 1: Theoretical Framework Linking Independent and Dependent Variables

The theoretical framework below illustrates the hypothesized relationships between the study's independent variables — **Human Resource Strategies, Talent Development, and Technological Innovation** — and the dependent variable, **Organizational Performance**. The framework is grounded in the Resource-Based View (RBV) and Human Capital Theory (HCT), both emphasizing the strategic value of organizational resources and human capital in driving competitive advantage and performance outcomes.



The diagram presents a clear, linear relationship where three independent variables — Human Resource Strategies, Talent Development, and Technological Innovation — directly influence the dependent variable, Organizational Performance. Human Resource Strategies encompass organizational policies, talent management systems, and employee engagement practices that contribute to performance outcomes, while Talent Development refers to structured initiatives such as training programs, leadership development, and skill enhancement activities aimed at improving workforce competence and productivity. It aims to increase effectiveness by adopting new technologies, tools and replacing manual work with automation. The framework proposes that a company performs well when its human resource, talent building and technological practices work together. Its alignment with the Resource-Based View (RBV) underscores these elements as valuable, rare, and strategically significant resources that contribute to sustainable organizational advantage, while the Human Capital Theory (HCT) highlights the importance of cultivating skilled, knowledgeable human assets in achieving operational and strategic excellence. Thanks to these initiatives, companies in developing nations can hold their own as businesses focus more on technology and expertise. (Aliyu, 2023; Mohammed et al., 2024).

2.3 Model of the Study

The conceptual model below illustrates a dynamic, multi-dimensional relationship where Human Resource Strategies, Talent Development, and Technological Innovation directly influence Organizational Performance. Additionally, the model integrates possible interrelationships among the independent variables, acknowledging that Human Resource Strategies may also enhance Talent Development and facilitate Technological Innovation, while Technological Innovation could improve the implementation of Talent Development programs. The variables work together as a system within the organization, leading to better results.

Figure 2: Complex Conceptual Model of the Study

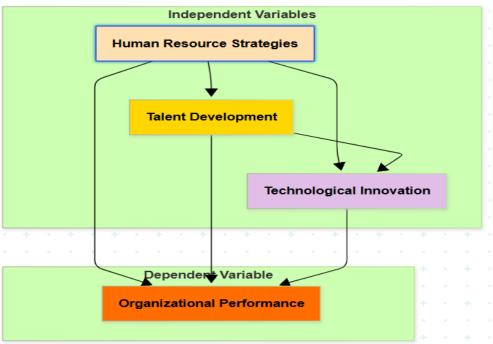


Figure 2: Complex Conceptual Model of the Study

By following this model, all three external pressures influence the main one by first considering the determining role of Human Resource Strategies which in turn affect Talent Development and Technological Innovation. Development supports the use of new technology and makes the organization more efficient and both it and Technological Innovation contribute to the organization's overall performance. This enriched model reflects the Resource-Based View (RBV), which posits that organizations gain competitive advantage by strategically managing interdependent, valuable resources such as human capital and technological assets (Aliyu, 2023; Mohammed et al., 2024). It also aligns with the Human Capital Theory (HCT) by emphasizing the development of employee skills and competencies as a central determinant of organizational success. Since it looks at direct and indirect effects, the model presents a detailed approach for researching how connections between HR, learning and technology affect a company's performance in nations experiencing fast changes and competition.

3.0 RESEARCH METHODOLOGY

3.0 Research Methodology This conceptual study employed a systematic literature review and theoretical analysis to explore the relationships among Human Resource Strategies, Talent Development, Technological Innovation, and Organizational Performance. The authors tried to bring together different writings and models to create an organized framework.

3.1 focuses on research design.

A qualitative, exploratory design was adopted to

critically examine and synthesize relevant theories, frameworks, and empirical findings from academic sources. Thanks to the design process, establishing the conceptual framework was possible without collecting data for the first time.

3.3 Sources of the Data

Secondary data were sourced exclusively from peerreviewed journal articles, books, and reputable reports related to human resource management, talent development, technological innovation, and organizational performance. These are the sources which Frege started building his theory about concepts.

3.3 Conceptual Framework Development

Key theories reviewed as part of the framework building included the Resource-Based View and Human Capital Theory. By combining these theories, it became possible to examine how independent variables influence how an organization performs.

3.4 Data Analysis

Data was analyzed data by using themes and content analysis on literature to highlight the main topics, how they relate and any missing points. The logically organized findings were used to build the conceptual framework and model propositions.

4.0 FINDINGS OF THE STUDY

Analyzing and bringing together existing information, the study determined the following:

1. Impact of HR Strategies on How an Organization Performs Human Resource Strategies such as effective recruitment, performance management, and employee engagement positively influenced organizational performance by enhancing workforce motivation, commitment, and productivity (Sundararajan et al., 2023; Aliyu, 2023).

- 2. Impact of Talent Development on Organizational Performance \Talent Development initiatives, including training, leadership development, and career progression programs, significantly contributed to improving employee competencies and organizational outcomes (Shanmugam et al., 2024; Sundararajan & Mohammed, 2024).
- 3. The Impact of Technological Progress on a Company's Outcomes Implementing technology and computerized tasks helped companies maximize efficiency, support better decision-making, gain a lead over others, and perform better (Mohammed et al., 2024; Aliyu, 2023).
- 4. Combined Effect of Human Resource Strategies, Talent Development, and Technological Innovation The integrated implementation of these three independent variables demonstrated a synergistic effect, resulting in greater organizational performance improvements than any variable acting alone (Sundararajan et al., 2023; Mohammed et al., 2023).

5.0 RECOMMENDATIONS

In light of the findings, the following recommendations are proposed:

1. For Human Resource Strategies

Organizations should prioritize the development and implementation of comprehensive HR strategies that foster employee engagement and align with organizational goals to enhance performance outcomes.

2. For Talent Development

Continuous investment in employee training, leadership programs, and career development is essential to build a skilled workforce capable of driving organizational success.

3. For Technological Innovation

Organizations need to actively adopt and integrate advanced technologies and digital solutions to streamline processes and maintain a competitive advantage in a rapidly evolving business environment.

4. For Integrated Strategic Management

A holistic approach combining human resource strategies, talent development, and technological innovation should be adopted to maximize organizational performance and sustain long-term growth.

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