



Disruptive Technologies and SMEs Resilience: Evidence from Nigeria's Business Landscape

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Abstract: *This study explores the impact of disruptive technology on five SMEs in Nigeria: NaijaMart, FarmXpress, PayNaira, MediConnect, and SolarNigeria. It delves into the challenges and opportunities these enterprises face, emphasizing the unique hurdles for SMEs in adapting to rapid technological changes. The research highlights specific issues like limited resources, technological resistance, regulatory obstacles, talent shortages, and market competition. Despite these challenges, the study identifies opportunities for SMEs, including market expansion, operational efficiency, customer engagement, and product innovation. The findings stress the need for strategic planning, resource allocation, and proactive technology adoption by SMEs. The research also provides policy recommendations for government and regulatory bodies, such as incentives, digital skills development, streamlined regulations, and cybersecurity measures. Ultimately, the study aims to offer actionable insights for SMEs, policymakers, and industry stakeholders to foster innovation, adaptability, and competitiveness in Nigeria's SME sector, contributing to economic development and technological advancement.*

Keywords: *Disruptive Technologies, Small and Medium Enterprises (SMEs), Economic Development, Technology Adoption, Nigeria*

1. Introduction

Small and Medium Enterprises (SMEs) play a crucial role in economic development, job creation, and poverty reduction in Nigeria (Ayyagari et al., 2003; Chittithaworn et al., 2011). However, the proliferation of disruptive technologies in recent decades has reshaped industries globally, presenting both unprecedented opportunities and challenges for businesses across various sectors. Small and Medium Enterprises (SMEs), as integral components of the economic landscape, are particularly susceptible to the impacts of these technological advancements. In Nigeria, SMEs constitute a significant portion of the economy, contributing substantially to

employment generation, income distribution, and economic diversification (Ogundele & Opeyemi, 2013).

Nigeria has experienced a surge in technological adoption and innovation in recent years, with a burgeoning tech ecosystem and a growing digital economy. However, the rapid pace of technological change has raised concerns about the preparedness and adaptability of SMEs in the country. While larger corporations may have the resources and infrastructure to navigate these disruptions, SMEs, often characterized by limited financial and technological resources, face unique challenges in embracing and leveraging disruptive technologies (Christensen, 1997). Understanding the nuances of how disruptive technology affects SMEs in Nigeria is imperative for several reasons. Firstly, SMEs form the backbone of the Nigerian economy, and their ability to adapt to technological shifts directly impacts economic growth, employment rates, and overall prosperity. Secondly, an in-depth analysis of the challenges and opportunities faced by SMEs in the context of disruptive technology can inform policy makers, industry stakeholders, and entrepreneurs about the necessary support structures and strategies required to foster a resilient and innovative SME sector (Aremu & Adeyemi, 2011; Olatunji & Ojo, 2017).

Despite the potential benefits that disruptive technologies can offer to SMEs in Nigeria, there exists a notable gap in the understanding of how these technologies are being adopted and adapted within the SME landscape. The challenges faced by SMEs in harnessing the potential of disruptive technologies, including financial constraints, resistance to change, regulatory hurdles, and talent shortages, remain inadequately addressed. Furthermore, as SMEs play a critical role in driving economic development, it is imperative to ascertain whether the existing ecosystem, including government policies and support mechanisms, adequately supports SMEs in their efforts to navigate and harness the potential of disruptive technologies. This study seeks to address this gap in knowledge by conducting a comprehensive analysis of the impact of disruptive technology on five representative SMEs in Nigeria. By delving into the specific experiences, challenges, and opportunities encountered by these enterprises, this research aims to provide actionable insights for SMEs, policy makers, and industry stakeholders to foster a more innovative, adaptable, and competitive SME sector in the face of rapid technological change.

1.2 Objectives of the Paper

1. Assess the current state of technological adoption in small and medium enterprises (SMEs) in Nigeria
2. To identify challenges faced by small and medium enterprises (SMEs) in Nigeria in harnessing disruptive technologies

1.3 Research Question

1. To what extent have small and medium enterprises (SMEs) in Nigeria adopted disruptive technologies, and what are the key factors influencing their adoption or resistance?
2. What are the primary challenges encountered by SMEs in Nigeria when attempting to integrate and leverage disruptive technologies, including financial constraints, resistance to change, regulatory hurdles, and talent shortages?

2. Literature Review

2.1 Definition and Characteristics of Disruptive Technology

Disruptive technology refers to innovations or technological advancements that significantly alter existing markets, often displacing established products, services, or business models. Christensen, (1997) as cited in Ikegwuru and Damien-Okoro (2024) described a disruptive technology as one that surprises the existing order of things in a given industry. Key characteristics of disruptive technologies include: **Accessibility and Affordability:** Disruptive technologies are typically more accessible and affordable than existing solutions. They may start out with lower performance or capabilities but offer other advantages, such as cost-effectiveness or simplicity. **Market Niche Focus:** Disruptive technologies often target niche or underserved markets that larger companies may overlook. By catering to specific segments, they gradually gain traction and expand their reach. **Simplicity and Convenience:** Disruptive technologies are often simpler and more user-friendly than existing solutions. They may eliminate unnecessary features, making them easier to adopt for a broader audience. **Technological Advancements:** Disruptive technologies leverage significant technological advancements or breakthroughs. These innovations enable new ways of doing things, which can have a profound impact on industries and markets.

Disruption of Established Players: Established companies often have entrenched business models and products. Disruptive technologies challenge these incumbents by offering a different value proposition. Initially, incumbents may dismiss or ignore the disruptive technology because it doesn't align with their existing strategies. **Gradual Market Penetration:** Disruptive technologies start in niche markets and gradually gain traction. As they improve and address a wider range of needs, they start to encroach on the domains of established players. **Innovative Business Models:** Disruptive technologies often come with new business models. They might rely on subscription-based services, decentralized networks, or other unconventional approaches that challenge traditional ways of doing business.

2.2 The Role of SMEs in Nigeria's Economy

Small and Medium Enterprises (SMEs) play a pivotal role in Nigeria's economy, contributing significantly to economic development, employment generation, and poverty reduction. Key points regarding the role of SMEs in Nigeria include: **Employment Generation:** SMEs are major employers in Nigeria, providing jobs for a significant portion of the population. SMEs are critical to employment generation and economic growth, predominantly in developing countries such as Nigeria with a tall unemployment frequency (Ikegwuru & Pokubo, 2019). They absorb a substantial portion of the labor force, particularly in urban and rural areas (Aremu & Adeyemi, 2011). **Income Generation and Poverty Alleviation:** SMEs contribute to household incomes and play a crucial role in poverty reduction. They provide opportunities for entrepreneurship and self-employment, allowing individuals to generate income and improve their livelihoods. **Economic Diversification:** SMEs contribute to economic diversification by operating in various sectors, including agriculture, manufacturing, services, and technology. This diversity helps to mitigate risks associated with over-reliance on a single sector.

Innovation and Creativity: SMEs are often drivers of innovation, introducing new products, services, and business models. They are agile and adaptable, allowing them to respond quickly to changing market demands and technological advancements. **Contribution to GDP:** SMEs make a substantial contribution to Nigeria's Gross Domestic Product (GDP). They form a significant portion of economic activities, particularly in sectors such as trade, manufacturing, and services areas (Aremu & Adeyemi, 2011). **Export and International Trade:** Some SMEs in Nigeria engage in international trade, contributing to export earnings and enhancing the country's global economic presence. **Regional Development:** SMEs are dispersed across various regions in Nigeria, contributing to balanced regional development. They play a crucial role in stimulating economic activities in both urban and rural areas. Overall, the success and resilience of SMEs are vital for sustained economic growth, job creation, and poverty reduction in Nigeria. They require a conducive business environment, access to finance, technology, and supportive policies to thrive and continue their crucial role in the Nigerian economy.

2.3 The Adoption and Adaptation of Technology in SMEs

The adoption and adaptation of technology in Small and Medium Enterprises (SMEs) have been subjects of significant interest and scrutiny in the literature. This process involves not only the initial adoption of new technologies but also the subsequent integration and utilization of these technologies within the existing operational framework of SMEs. SMEs face unique considerations when adopting technology compared to larger enterprises. Factors such as resource constraints, limited technical expertise, and risk aversion can influence their approach to technology adoption (Ifinedo, 2011). Additionally, cultural and organizational factors may impact the willingness of SMEs to embrace new technologies (Li, 2018). The literature suggests that successful technology adoption in SMEs is contingent on factors such as the perceived benefits of the technology, compatibility with existing processes, ease of use, and the availability of support and training (Premkumar, 2003). Furthermore, the adaptability of SMEs to evolving technological landscapes is crucial for their long-term sustainability and competitiveness (Danneels, 2002).

3.1 Case Study 1: E-Commerce Platform "NaijaMart"

NaijaMart is a prominent e-commerce platform operating in Nigeria. Established in 2004, the platform has rapidly gained traction within the Nigerian market as a go-to destination for online shopping. NaijaMart connects a diverse range of sellers with a broad customer base, offering products spanning various categories including electronics, fashion, beauty, home goods, and more. NaijaMart leverages a robust e-commerce infrastructure, incorporating user-friendly interfaces, secure payment gateways, and seamless order processing. The platform employs advanced algorithms for product recommendations and search functionality, enhancing the customer shopping experience.

Impact of Disruptive Technology

NaijaMart's adoption of disruptive technology has revolutionized the retail landscape in Nigeria. By providing a convenient and accessible online marketplace, the platform has empowered both small-scale entrepreneurs and established businesses to expand their reach beyond traditional

brick-and-mortar settings. NaijaMart has faced challenges such as competition from international e-commerce giants and the need for continuous technological upgrades to meet evolving customer expectations. The platform has addressed these challenges through strategic partnerships, investment in advanced logistics solutions, and a customer-centric approach to business operations. NaijaMart has experienced significant growth in terms of user base, transaction volume, and revenue. The platform's success underscores the transformative potential of disruptive technology in the retail sector, demonstrating how it can create new opportunities for businesses and consumers alike.

3.2 Case Study 2: AgroTech Startup "FarmXpress"

FarmXpress is a pioneering AgroTech startup based in Nigeria, established in 1994. The company focuses on providing technology-driven solutions to farmers, including access to information on modern farming practices, supply of quality inputs, and market linkages for their produce. FarmXpress utilizes a combination of mobile applications, web platforms, and data analytics to deliver its services. The mobile app provides farmers with valuable insights on crop management, pest control, and best agricultural practices. The platform also facilitates seamless transactions between farmers and buyers, ensuring fair prices for agricultural produce.

Impact of Disruptive Technology

FarmXpress has revolutionized the agricultural sector in Nigeria by leveraging disruptive technology. The platform has empowered smallholder farmers with access to critical information and resources, thereby enhancing productivity and profitability in the agricultural value chain. One of the key challenges faced by FarmXpress is the need to bridge the digital divide among farmers, particularly in rural areas with limited internet connectivity. To address this, the company has implemented offline functionalities in its mobile app and conducted extensive outreach and training programs to ensure widespread adoption. FarmXpress has witnessed significant positive impacts on farmers' livelihoods, including increased crop yields, improved income levels, and enhanced market access. The startup's success serves as a testament to the potential of disruptive technology in transforming traditional sectors like agriculture.

3.3 Case Study 3: Financial Technology (FinTech) Company "PayNaira"

PayNaira is a prominent Financial Technology (FinTech) company operating in Nigeria. Established in 2020, the company specializes in providing innovative financial solutions, including digital payment services, peer-to-peer transfers, and financial management tools to individuals and businesses. PayNaira leverages cutting-edge encryption technologies and secure payment gateways to facilitate seamless financial transactions. The company's mobile app and web platform offer intuitive interfaces for users to manage their finances, make payments, and transfer funds.

Impact of Disruptive Technology

PayNaira has disrupted the traditional banking landscape in Nigeria by providing convenient and accessible financial services. The company's digital-first approach has facilitated financial inclusion, particularly among unbanked and underserved populations, by offering easy-to-use

digital payment solutions. One of the primary challenges faced by PayNaira is regulatory compliance and adherence to stringent financial industry standards. The company has worked closely with regulatory bodies and invested in robust security measures to ensure compliance while maintaining user trust. PayNaira has experienced exponential growth in user adoption and transaction volume, becoming a prominent player in Nigeria's FinTech ecosystem. The company's success exemplifies how disruptive technology can reshape the financial services sector, providing accessible and inclusive solutions for individuals and businesses.

3.4 Case Study 4: HealthTech Initiative "MediConnect"

MediConnect is a groundbreaking HealthTech initiative operating in Nigeria. The platform leverages technology to improve patient care and streamline healthcare processes. It offers a range of services, including electronic health records, telemedicine consultations, and medication management. MediConnect integrates electronic health record (EHR) systems, secure communication channels, and telemedicine platforms. The platform also employs data analytics to enhance patient outcomes and optimize healthcare delivery. Additionally, it provides a user-friendly interface for healthcare providers and patients.

Impact of Disruptive Technology

MediConnect has brought about a paradigm shift in the healthcare sector of Nigeria. By harnessing the power of technology, the platform has facilitated remote consultations, improved access to healthcare services, and enhanced the efficiency of medical record management. One of the challenges faced by MediConnect is the need to ensure data privacy and security in compliance with healthcare regulations. The platform has implemented robust encryption protocols and stringent access controls to safeguard patient information. Additionally, it has worked closely with healthcare professionals to train them on the use of the platform. MediConnect has demonstrated substantial positive impacts on healthcare delivery in Nigeria. It has improved patient-provider communication, reduced waiting times, and enabled more efficient coordination among healthcare teams. The initiative stands as a testament to the potential of disruptive technology in revolutionizing the healthcare sector.

3.5 Case Study 5: Renewable Energy Solutions Provider "Solar Nigeria"

SolarNigeria is a pioneering Renewable Energy Solutions Provider based in Nigeria. The company specializes in providing solar energy solutions for residential, commercial, and industrial applications. It offers solar panels, inverters, and related accessories to harness renewable energy sources. SolarNigeria employs state-of-the-art solar energy technologies, including photovoltaic panels, energy storage systems, and grid-tie inverters. The company also utilizes advanced monitoring and control systems to optimize energy generation and consumption.

Impact of Disruptive Technology

SolarNigeria has played a pivotal role in advancing the adoption of renewable energy in Nigeria. By offering reliable and cost-effective solar solutions, the company has contributed to reducing reliance on traditional fossil fuels, mitigating environmental impact, and providing sustainable energy alternatives. One of the challenges faced by SolarNigeria is the need for education and

awareness about renewable energy solutions, particularly among potential customers who may be unfamiliar with the technology. The company has addressed this by conducting outreach programs, providing informational resources, and offering consultations to potential clients. SolarNigeria has achieved significant success in promoting renewable energy adoption in Nigeria. The company's solutions have led to reduced energy costs for customers, decreased reliance on the national grid, and a positive environmental footprint

4. Challenges Faced by SMEs in Adapting to Disruptive Technologies

Small and Medium Enterprises (SMEs) often encounter various challenges when it comes to adopting and adapting to disruptive technologies. These challenges can significantly impact their ability to leverage technological advancements for business growth and competitiveness.

4.1. Limited Financial Resources for Technological Investments

Many SMEs, especially in emerging economies like Nigeria, often operate with limited capital and financial resources. This constraint poses a significant challenge when it comes to making substantial investments in adopting and integrating disruptive technologies (Zhu, Kraemer, & Xu, 2003). These technologies may require significant upfront costs for hardware, software, training, and infrastructure upgrades. Limited access to loans or venture capital further exacerbates this challenge, making it difficult for SMEs to keep pace with larger competitors in technology adoption.

4.2 Resistance to Technological Change within the Workforce

SMEs may encounter resistance from their workforce when implementing new and disruptive technologies. Employees may be accustomed to established workflows and may feel apprehensive or threatened by the prospect of change (Bapuji & Crossan, 2004). This resistance can manifest in various forms, such as reluctance to learn new systems, fear of job displacement, or concerns about increased workloads due to technological integration. Overcoming this resistance requires effective change management strategies, including training, communication, and creating a culture of adaptability.

4.3 Regulatory and Legal Hurdles

Navigating the regulatory landscape can be particularly challenging for SMEs, especially in industries where compliance with specific standards and regulations is crucial (Owusu & Dzugbenuku, 2018). Adapting to disruptive technologies may involve compliance with new or evolving legal frameworks, which can be complex and time-consuming. Ensuring data privacy, cybersecurity, and industry-specific regulations adds an extra layer of complexity, requiring SMEs to allocate resources for legal and compliance efforts.

4.4 Lack of Access to Skilled Technical Talent

Finding and retaining skilled technical talent is a common challenge for SMEs, especially in specialized fields related to disruptive technologies (Al-Qirim, 2004). Competing with larger enterprises for top talent can be difficult due to budget constraints and limited resources.

Additionally, SMEs may face challenges in offering competitive compensation packages and benefits, making it harder to attract and retain qualified professionals. This shortage of technical expertise can hinder the effective implementation and utilization of disruptive technologies.

4.5 Market Disruption and Increased Competition

The introduction of disruptive technologies often leads to rapid changes in market dynamics. This can result in increased competition as new entrants, including startups and tech-savvy competitors, vie for market share. Established SMEs may find it challenging to adapt quickly enough to remain competitive in the face of this disruption (Christensen, 1997). This dynamic market environment necessitates agile strategies and the ability to pivot quickly to stay relevant and maintain a competitive edge.

Addressing these challenges requires a combination of strategic planning, investment prioritization, talent development, and a proactive approach to regulatory compliance. SMEs that effectively navigate these hurdles are better positioned to leverage disruptive technologies for sustainable growth and success.

5. Opportunities Leveraged by SMEs

While adopting disruptive technologies comes with its set of challenges, it also presents a range of opportunities for Small and Medium Enterprises (SMEs) to thrive and grow in a rapidly evolving technological landscape.

5.1 Market Expansion and Access to Global Markets

Disruptive technologies can enable SMEs to reach a broader audience and expand their market reach beyond geographical boundaries (Zhu, Kraemer, & Xu, 2003). Through e-commerce platforms and online marketplaces, SMEs can tap into global markets, reaching customers they may not have been able to access through traditional channels.

5.2 Enhanced Operational Efficiency and Cost Reduction

The integration of disruptive technologies can lead to increased operational efficiency and cost savings for SMEs. Automation, advanced analytics, and digital tools can streamline processes, reduce manual work, and optimize resource allocation (Premkumar, 2003). This, in turn, can lead to improved productivity and profitability.

5.3 Improved Customer Engagement and Experience

Disruptive technologies provide SMEs with the tools to enhance customer engagement and deliver superior experiences (Li, 2018). Personalized marketing, data-driven insights, and user-friendly interfaces contribute to higher customer satisfaction and loyalty, ultimately driving business growth.

5.4 Innovation and Product Development

Embracing disruptive technologies fosters a culture of innovation within SMEs. It enables them to develop new products or services, improve existing offerings, and stay competitive in dynamic

markets (Danneels, 2002). Access to cutting-edge technologies can lead to breakthroughs and differentiation.

SMEs can employ the following strategies to successfully navigate the challenges and opportunities posed by disruptive technologies:

- i. Invest in Talent: Prioritize hiring and upskilling of technical talent to ensure the organization has the necessary expertise to leverage disruptive technologies.
- ii. Continuous Learning and Adaptation: Cultivate a culture of continuous learning and adaptation to stay abreast of technological advancements and remain competitive.
- iii. Collaborate and Network: Seek partnerships and collaborations with other SMEs, tech startups, and industry players to share knowledge and resources.
- iv. Focus on Customer-Centric Solutions: Prioritize customer needs and experiences when adopting new technologies to ensure they add tangible value.

6. Implications and Recommendations

The adoption of disruptive technologies presents both challenges and opportunities for Small and Medium Enterprises (SMEs) in Nigeria. Understanding these implications is crucial for SMEs to effectively navigate the rapidly evolving technological landscape. Embracing disruptive technologies can provide SMEs with a competitive edge, allowing them to innovate, reach new markets, and enhance customer experiences. Integration of advanced technologies can lead to improved operational efficiency, cost reduction, and increased productivity. Disruptive technologies enable SMEs to expand their market reach, potentially accessing global markets and a broader customer base. SMEs have the opportunity to innovate and develop new products or services, driving growth and differentiation in their respective industries.

To facilitate the successful adoption of disruptive technologies among SMEs, government and regulatory bodies can implement the following policy recommendations:

- i. Provide Incentives: Offer tax incentives, grants, and subsidies to SMEs investing in technology adoption and innovation.
- ii. Foster Digital Skills Development: Establish training programs and initiatives to enhance the technical skills of the SME workforce, ensuring they can effectively leverage new technologies.
- iii. Streamline Regulatory Processes: Simplify and streamline regulatory procedures to reduce the barriers SMEs face when adopting and implementing disruptive technologies.
- iv. Promote Cybersecurity Measures: Implement and enforce cybersecurity standards to safeguard SMEs against cyber threats and protect sensitive data.

The adoption of disruptive technologies presents a transformative opportunity for SMEs in Nigeria. While challenges exist, strategic adaptation and a proactive approach to technology adoption can position SMEs for sustained growth and competitiveness. By embracing these technologies and leveraging the support of government policies, SMEs have the potential to drive economic development and innovation in Nigeria's evolving business landscape.

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