

E-commerce and Digital Marketplaces: Transforming FMCG SME Supply Chains and Customer Engagement

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Abstract

E-commerce and digital marketplaces are revolutionizing the way Fast-Moving Consumer Goods (FMCG) small and medium-sized enterprises (SMEs) operate, particularly in terms of supply chain management and customer engagement. This explores how the integration of e-commerce platforms and digital tools is reshaping the supply chains of FMCG SMEs by enhancing operational efficiency, enabling direct-to-consumer (D2C) models, and improving demand forecasting through real-time data analytics. The digital transformation of supply chains allows SMEs to reduce intermediaries, streamline logistics, and optimize inventory management, thereby enabling them to meet consumer demands more quickly and cost-effectively. Moreover, the automation and digitization of supply chain processes lead to greater agility and responsiveness, which are essential for competing in today's fast-paced markets. In parallel, e-commerce platforms and digital marketplaces are significantly enhancing customer engagement by providing SMEs with access to a wider audience and offering personalized customer experiences. Through the use of data-driven insights, SMEs can tailor their marketing strategies, customize product offerings, and improve customer service, fostering stronger brand loyalty. Social media integration and digital marketing also play a critical role in building online presence, enabling SMEs to connect with customers more directly and efficiently. This also addresses the challenges faced by FMCG SMEs in adopting e-commerce models, including logistics management, platform competition, and digital skills gaps. By examining case studies of successful SMEs, the review highlights practical strategies for overcoming these challenges, emphasizing the importance of technology such as AI, IoT, and blockchain in transforming both supply chains and customer engagement. Ultimately, this study demonstrates that embracing e-commerce and digital marketplaces is essential for FMCG SMEs seeking to improve operational efficiency, enhance customer satisfaction, and achieve sustainable growth in a digital-first marketplace.

Keywords: E-commerce, Digital Marketplaces, FMCG SME, Supply Chains

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I. Introduction

Small and medium-sized enterprises (SMEs) play a critical role in the Fast-Moving Consumer Goods (FMCG) sector (Nwosu *et al.*, 2024). FMCG SMEs are businesses that provide products with a short shelf life, such as food, beverages, toiletries, and household items, and are typically characterized by rapid turnover. SMEs in the FMCG sector are essential for driving economic growth, creating jobs, and fostering innovation (Daramola *et al.*, 2024; Nwaimo *et al.*, 2024). These businesses often have closer relationships with local suppliers and customers, allowing for greater flexibility and responsiveness to market needs. Despite their smaller scale compared to large multinational corporations, FMCG SMEs contribute significantly to the diversity and competitiveness of the consumer goods market, offering niche and specialized products tailored to specific customer demands (Abbulimen and Ejike, 2024; Toromade *et al.*, 2024).

In recent years, the rise of e-commerce and digital marketplaces has transformed the FMCG landscape (Eziamaka *et al.*, 2024). Online shopping platforms such as Amazon, Alibaba, and other regional players have made it easier for consumers to access a wide range of products at their convenience. This shift has accelerated due to factors like internet penetration, increasing smartphone usage, and evolving consumer behaviors. For FMCG SMEs, the digital revolution presents both challenges and opportunities (Adewumi *et al.*, 2024). Digital transformation is no longer optional but essential for SMEs to remain competitive. E-commerce enables these businesses to reach a broader audience, optimize supply chains, and develop personalized customer experiences.

Digital marketplaces offer SMEs the chance to leverage advanced marketing tools, such as targeted advertising and data-driven insights into consumer preferences, providing them with the means to compete with larger companies (Ezeh *et al.*, 2024). Additionally, the growth of online platforms has prompted changes in how supply chains are structured. FMCG SMEs must now adapt to new fulfillment models, incorporate direct-to-consumer shipping, and manage relationships with third-party logistics providers to meet the growing demand for seamless online shopping experiences (Oyedokun, 2019; Akinsulire *et al.*, 2024).

This review aims to explore how e-commerce and digital marketplaces are reshaping the operations and strategies of FMCG SMEs. Specifically, it will examine how these digital advancements are influencing supply chain structures, marketing efforts, and customer engagement. The review will also analyze the ways in which SMEs can leverage e-commerce platforms to enhance their market presence, build customer loyalty, and create more sustainable and efficient supply chains. By understanding the impact of digitalization on the FMCG sector, this study will provide insights into how SMEs can navigate the evolving consumer landscape and seize opportunities for growth and innovation in a highly competitive market.

II. E-commerce and Digital Marketplaces in FMCG

E-commerce refers to the buying and selling of goods or services over the internet, while digital marketplaces are online platforms that connect buyers and sellers, facilitating transactions through a centralized system (Nwosu, 2024; Iwuanyanwu *et al.*, 2024). These platforms offer a variety of products, including FMCG (Fast-Moving Consumer Goods), and have transformed how businesses, especially SMEs (Small and Medium-Sized Enterprises), operate. Key characteristics of e-commerce and digital marketplaces include online sales platforms that allow businesses to list products, access to vast customer bases across geographic boundaries, and tools that enable businesses to track customer behavior and preferences (Okatta *et al.*, 2024). They provide global reach by enabling businesses to expand beyond local markets, offering opportunities for international trade without the need for physical storefronts. In addition to online sales, digital marketplaces like Amazon, Alibaba, and Shopify offer functionalities such as digital marketing tools, logistics management, and customer relationship management systems. These platforms serve as intermediaries that simplify operations for SMEs, allowing them to focus on scaling their products while the marketplace handles payment processing, delivery logistics, and customer service (Ejike and Abhulimen, 2024). As a result, FMCG SMEs can focus on product innovation and marketing strategies.

The FMCG sector, traditionally reliant on physical retail, has seen a significant expansion in online shopping due to the rise of e-commerce. Increasing consumer preference for convenience, combined with the rapid penetration of smartphones and internet access, has led to a surge in online sales for FMCG products such as groceries, household goods, and personal care items (Akinsulire *et al.*, 2024). Consumers are now able to purchase these products with a few clicks, resulting in the rapid growth of digital sales channels. Digital marketplaces like Amazon, Alibaba, and Shopify have played a crucial role in driving this expansion. Amazon, for instance, provides a platform for FMCG SMEs to sell their products directly to consumers, bypassing traditional retail intermediaries. Alibaba offers access to a global market with a particular focus on connecting Asian SMEs with international buyers (Toromade *et al.*, 2024). Shopify, which allows businesses to build their own online stores, has enabled FMCG SMEs to create direct-to-consumer (D2C) channels that increase brand visibility and control over customer experiences. The COVID-19 pandemic further accelerated the shift toward online shopping, as restrictions on physical movement and concerns over health safety prompted consumers to purchase more FMCG products online. This trend has continued post-pandemic, with digital marketplaces emerging as a dominant sales channel for FMCG SMEs, allowing them to reach larger audiences and scale their operations more efficiently (Nwosu and Ilori, 2024).

For FMCG SMEs, e-commerce offers several distinct advantages. First, it provides access to wider markets. Traditionally, SMEs were limited to local or regional markets due to high costs associated with physical expansion, but e-commerce allows these businesses to reach national and international consumers without the need for additional infrastructure (Ezeh *et al.*, 2024; Nwaimo *et al.*, 2024). Digital marketplaces eliminate geographic barriers, enabling SMEs to scale quickly and compete with larger brands on a global stage. Another important benefit of e-commerce for FMCG SMEs is the lower barriers to entry (Daramola *et al.*, 2024). Opening a physical store requires significant investment in real estate, inventory, and staffing. In contrast, e-commerce platforms require minimal startup costs and provide scalable solutions. SMEs can start small, testing product lines and refining their offerings, and then expand as demand grows. This makes the e-commerce environment more flexible and adaptable to the needs of smaller businesses, allowing them to remain competitive in a rapidly changing market. Additionally, e-commerce enables SMEs to collect valuable data on consumer behavior, preferences, and purchasing patterns (Ajiga *et al.*, 2024). This information can be used to tailor marketing strategies, improve customer engagement, and enhance product offerings. Through features like targeted advertising and personalized recommendations, digital marketplaces help FMCG SMEs increase visibility and attract loyal customers. E-commerce and digital marketplaces are transforming the FMCG landscape by providing

SMEs with broader market access, scalability, and tools for growth. As consumer habits continue to shift toward online shopping, FMCG SMEs that embrace these platforms will be better positioned to compete in the modern digital economy (Akinsulire *et al.*, 2024; Nwaimo *et al.*, 2024). E-commerce not only provides immediate growth opportunities but also offers long-term advantages in terms of brand visibility, operational efficiency, and customer satisfaction.

2.1 Transformation of Supply Chains through E-commerce

The rise of e-commerce has fundamentally transformed supply chain operations, enabling businesses to enhance efficiency, visibility, and responsiveness. As consumer preferences shift toward online shopping, companies must adapt their supply chains to meet the demands of a rapidly evolving marketplace (Ezeh *et al.*, 2024). This examines how e-commerce is reshaping supply chains through digitization, real-time management, direct-to-consumer models, and the associated challenges.

The digitization of supply chain operations is at the forefront of this transformation. Companies are increasingly leveraging automation, data analytics, and digital tools to improve operational efficiency and visibility (Ejike and Abhulimen, 2024). Automation technologies, such as robotic process automation (RPA), streamline routine tasks, reducing errors and freeing human resources for more strategic initiatives. Data analytics enables companies to gain insights into their supply chain performance, identify bottlenecks, and enhance decision-making. Furthermore, digital tools such as cloud computing and Internet of Things (IoT) devices allow for real-time tracking of inventory and shipments. Enhanced visibility into supply chain operations not only improves operational efficiency but also enables better collaboration between supply chain partners, fostering a more resilient and responsive supply chain ecosystem (Toromade *et al.*, 2024; Nwaimo *et al.*, 2024).

E-commerce has revolutionized inventory management and demand forecasting through the integration of technology (Ezeh *et al.*, 2024). Real-time inventory management allows businesses to track stock levels continuously, facilitating just-in-time (JIT) delivery and reducing excess inventory costs. This level of responsiveness is particularly crucial in the FMCG sector, where consumer demand can fluctuate rapidly. In addition, e-commerce-driven supply chain management improves forecasting and demand planning. Advanced analytics tools analyze historical sales data and consumer behavior to predict future demand trends accurately. By utilizing these insights, businesses can optimize their inventory levels, ensuring that they have the right products available at the right time (Okatta *et al.*, 2024). This not only enhances customer satisfaction but also minimizes waste and operational costs.

The rise of e-commerce has also led to the emergence of direct-to-consumer (D2C) supply chain models, which disintermediate traditional wholesalers and retailers (Akinsulire *et al.*, 2024). By selling directly to consumers, businesses can capture higher margins and establish closer relationships with their customers. This model allows for greater control over branding, pricing, and customer experience. D2C supply chains are inherently more agile and customer-centric. Companies can quickly adapt to changing consumer preferences and market trends by leveraging consumer feedback and data analytics. This adaptability enhances competitiveness, as businesses can respond more effectively to market demands. Moreover, the D2C model fosters a more personalized shopping experience, as brands can engage directly with consumers, tailoring their offerings and marketing strategies accordingly (Iwuanyanwu *et al.*, 2024).

Despite the numerous benefits, the transformation of supply chains through e-commerce presents several challenges (Daramola *et al.*, 2024). Managing logistics, fulfillment, and distribution complexity is a significant hurdle for businesses. As companies expand their online presence, they must navigate the intricacies of shipping and distribution networks to ensure timely delivery. This complexity can lead to increased operational costs and logistical challenges, particularly for SMEs with limited resources. Additionally, businesses must balance efficiency with sustainability. As e-commerce grows, the environmental impact of increased shipping and packaging becomes a pressing concern. Companies face pressure to adopt sustainable practices while maintaining efficient supply chains. This requires innovative solutions, such as eco-friendly packaging, optimized routing for deliveries, and waste reduction strategies (Ezeh *et al.*, 2024). The transformation of supply chains through e-commerce presents both opportunities and challenges. The digitization of operations, real-time inventory management, and D2C models enhance efficiency, responsiveness, and customer engagement (Ajiga *et al.*, 2024). However, businesses must also address logistical complexities and sustainability concerns to thrive in this evolving landscape. As the e-commerce landscape continues to grow, companies that embrace these changes and navigate the associated challenges will be well-positioned for success in the future.

2.2 Enhancing Customer Engagement through Digital Platforms

The advent of digital platforms has fundamentally transformed how businesses engage with customers, particularly in the e-commerce sector (Abhulimen and Ejike, 2024). As consumer expectations evolve, companies must adopt strategies that prioritize personalized experiences, leverage data insights, and integrate social media

to foster brand loyalty. This explores the shifting landscape of customer engagement in the digital age and the strategies that businesses can employ to enhance their interactions with customers.

In today's digital landscape, customer expectations have shifted dramatically. Consumers now demand personalized experiences, fast delivery, and 24/7 accessibility. The immediacy of online shopping has conditioned customers to expect prompt responses to inquiries and swift order fulfillment (Nwaimo *et al.*, 2024). This expectation is heightened by the rise of e-commerce giants like Amazon, which have set a high bar for service and convenience. Personalization has become a key differentiator in the competitive market, as customers are more likely to engage with brands that understand their preferences and needs. For instance, customers expect tailored product recommendations based on their previous purchases and browsing history. Companies that fail to meet these expectations risk losing customer loyalty in an increasingly competitive environment.

To effectively meet these shifting expectations, businesses must harness data-driven customer insights (Akinsulire *et al.*, 2024). E-commerce platforms gather extensive customer data through various means, including purchase history, browsing behavior, and demographic information. By analyzing this data, companies can gain a deeper understanding of customer preferences and behaviors, enabling them to develop more effective marketing strategies and product offerings. For example, data analytics can identify trends and patterns that inform product development, allowing companies to create offerings that align with customer needs. Additionally, segmentation strategies enable businesses to target specific customer groups with tailored marketing campaigns, improving the effectiveness of their outreach efforts. By leveraging data insights, companies can foster stronger connections with their customers, ultimately driving engagement and loyalty (Toromade *et al.*, 2024).

Enhancing the customer experience is crucial in the e-commerce landscape. Businesses can improve customer touchpoints through user-friendly platforms that facilitate seamless navigation and purchasing processes (Ezeafulukwe *et al.*, 2024). An intuitive website design, fast loading times, and clear calls to action are essential components of a positive online shopping experience. Personalized recommendations further enhance the customer journey. By utilizing algorithms that analyze user behavior, e-commerce platforms can suggest relevant products, increasing the likelihood of additional purchases. Furthermore, enhanced online interactions, such as live chat support and customer feedback mechanisms, enable businesses to address customer inquiries and concerns in real-time, fostering a sense of connection and trust (Nwaimo *et al.*, 2024; Akinsulire *et al.*, 2024).

Social media plays a vital role in enhancing customer engagement, providing businesses with a platform to connect directly with their audience. The integration of social media into digital marketing strategies allows brands to build community, share valuable content, and showcase their products in an engaging manner (Iwuanyanwu *et al.*, 2024; Ezeafulukwe *et al.*, 2024). Influencer marketing has emerged as a powerful tool, enabling brands to leverage the reach and credibility of social media personalities to connect with potential customers. Through social media channels, businesses can foster brand loyalty by creating authentic relationships with their customers (Iwuanyanwu *et al.*, 2024). Engaging content, such as behind-the-scenes glimpses, customer stories, and interactive posts, encourages audience participation and strengthens brand affinity. Moreover, digital channels and marketplaces facilitate direct communication, enabling customers to provide feedback and interact with brands, further enhancing the sense of community. Enhancing customer engagement through digital platforms requires a comprehensive approach that addresses shifting customer expectations, leverages data insights, and integrates social media strategies. Businesses that prioritize personalized experiences, improve the online shopping journey, and build authentic relationships through social media are better positioned to foster customer loyalty and drive growth in the competitive e-commerce landscape. As digital platforms continue to evolve, companies must adapt their strategies to meet the changing needs of consumers, ensuring a relevant and engaging customer experience (Okatta *et al.*, 2024).

2.3 The Role of Technology in E-commerce and Supply Chain Transformation

The rapid evolution of technology has significantly transformed the e-commerce landscape and supply chain operations. Technologies such as artificial intelligence (AI), the Internet of Things (IoT), automation, and blockchain are driving efficiency, enhancing customer engagement, and fostering transparency (Iwuanyanwu *et al.*, 2024; Ezeafulukwe *et al.*, 2024). Furthermore, the adoption of omnichannel strategies is reshaping how businesses interact with consumers, blending online and offline experiences. This explores the pivotal role of these technologies in transforming e-commerce and supply chains.

The integration of AI, IoT, and automation is revolutionizing supply chain management and e-commerce operations. Smart logistics enabled by IoT technology allows companies to monitor and manage assets in real-time. Sensors embedded in shipping containers, vehicles, and warehousing systems provide critical data on location, temperature, and humidity, which helps in maintaining product quality and ensuring timely deliveries (Iwuanyanwu *et al.*, 2022). This level of visibility enhances operational efficiency and reduces costs associated with delays and spoilage. AI plays a transformative role in driving marketing strategies and personalizing customer interactions. Machine learning algorithms analyze vast amounts of consumer data to identify preferences and predict future behaviors, allowing businesses to tailor marketing campaigns effectively. For instance,

personalized product recommendations based on browsing history can significantly enhance customer engagement and drive sales. Furthermore, AI-powered chatbots provide instant customer support, improving response times and enhancing the overall customer experience (Toromade and Chiekezie, 2024). Automation technologies streamline various supply chain processes, reducing manual labor and increasing efficiency. Automated warehousing systems can manage inventory, pick orders, and fulfill shipments with minimal human intervention (Ejike and Abhulimen, 2024). This not only speeds up operations but also minimizes errors, resulting in more accurate order fulfillment. As a result, companies can respond more quickly to customer demands, a crucial factor in today's fast-paced market.

Blockchain technology is emerging as a critical tool for enhancing trust and transparency within supply chains (Ajiga *et al.*, 2024). By providing a decentralized, immutable ledger of transactions, blockchain allows all stakeholders manufacturers, suppliers, distributors, and consumers to track products' origins and movements in real-time. This transparency is particularly valuable in industries where product provenance is essential, such as food safety and pharmaceuticals. With blockchain, each transaction is securely recorded, providing a clear audit trail that can be accessed by authorized parties. This not only reduces the risk of fraud and counterfeiting but also ensures compliance with regulatory standards. For example, in the food industry, blockchain can help trace products from farm to table, enabling consumers to verify the authenticity and safety of their purchases. This level of transparency builds consumer trust and enhances brand reputation. Additionally, blockchain facilitates improved collaboration among supply chain partners. By providing a shared platform for data exchange, companies can streamline processes and enhance communication. This collaborative approach enables quicker decision-making and fosters a more agile supply chain capable of adapting to market changes.

The implementation of omnichannel strategies has become essential for businesses seeking to provide a seamless customer experience (Daramola *et al.*, 2024). By integrating online and offline channels, companies can meet consumers wherever they prefer to shop. This strategy encompasses various approaches, such as click-and-collect services, where customers purchase items online and pick them up at a physical location, and hybrid supply chain models that combine the strengths of both channels. Omnichannel retailing allows businesses to create a cohesive brand experience. Moreover, omnichannel strategies enable businesses to gather comprehensive customer insights across multiple touchpoints. Analyzing data from various channels helps companies understand customer preferences and behaviors better, allowing for targeted marketing efforts and personalized promotions. This approach not only drives sales but also fosters customer loyalty, as consumers appreciate the convenience and flexibility offered by integrated shopping experiences. Technology plays a pivotal role in transforming e-commerce and supply chain operations. The integration of AI, IoT, and automation enhances efficiency and customer engagement, while blockchain technology promotes transparency and trust among supply chain stakeholders. Additionally, the adoption of omnichannel strategies allows businesses to deliver seamless customer experiences that cater to modern consumer expectations (Eziamaka *et al.*, 2024). As technology continues to advance, its influence on e-commerce and supply chain transformation will only grow, presenting both opportunities and challenges for businesses striving to stay competitive in the dynamic market landscape.

2.4 Case Studies and Industry Examples

The rise of e-commerce and digital marketplaces has significantly influenced the operations of small and medium-sized enterprises (SMEs) in the fast-moving consumer goods (FMCG) sector. By embracing digital transformation, these SMEs have not only enhanced their supply chains but also improved customer engagement (Toromade and Chiekezie, 2024). This highlights case studies of FMCG SMEs that have successfully leveraged e-commerce and digital platforms, along with the key lessons learned from their experiences.

One notable example of an SME that has effectively utilized e-commerce is Chicory, a New York-based company that offers a platform to integrate coffee and tea products into online recipes. By collaborating with grocery retailers and e-commerce platforms like Amazon and Instacart, Chicory has transformed its supply chain to streamline product availability. Through its digital platform, the company allows consumers to add coffee and tea products directly to their online shopping carts while browsing recipes, creating a seamless shopping experience. This strategy not only drives sales but also enhances customer engagement by connecting products to everyday consumer habits (Abhulimen and Ejike, 2024). Another example is Humble Bundle, a digital marketplace that allows small game developers and publishers to sell their products directly to consumers while promoting charitable causes. By leveraging e-commerce, Humble Bundle has created a unique business model that combines digital downloads with philanthropic efforts, thus appealing to a socially conscious consumer base. This approach enhances customer loyalty and engagement, as buyers appreciate the opportunity to support charitable causes through their purchases. Additionally, Farmigo, an online grocery delivery service focused on local produce, has redefined the supply chain dynamics for SMEs in the FMCG sector. By utilizing an online platform, Farmigo connects local farmers directly with consumers, enabling a farm-to-table model that supports local agriculture while providing customers with fresh, organic produce. This digital marketplace not only

streamlines logistics but also fosters a sense of community and sustainability, which resonates well with eco-conscious consumers.

The experiences of these SMEs provide valuable insights into the effective use of e-commerce and digital marketplaces in optimizing operations and enhancing customer engagement. Successful SMEs prioritize creating a seamless customer experience. Chicory's integration of shopping with recipe browsing exemplifies how enhancing the shopping journey can increase customer satisfaction and drive sales. Providing easy navigation, personalized recommendations, and a user-friendly interface are crucial elements that can improve engagement. SMEs like Humble Bundle and Farmigo demonstrate the importance of leveraging data analytics to understand consumer behavior. By analyzing purchasing patterns and preferences, these companies can tailor their offerings, target marketing efforts, and optimize inventory management. This data-driven approach enables SMEs to make informed decisions that align with customer needs. The success of Farmigo highlights the growing consumer preference for local and sustainable products. By fostering connections between local farmers and consumers, the company enhances brand loyalty and trust. SMEs should consider community engagement and transparency in their marketing strategies, as these factors can significantly influence customer perceptions (Khattak and Yousaf, 2021). The integration of technology in supply chain management is essential for optimizing operations. E-commerce platforms enable SMEs to automate processes, track inventory in real-time, and enhance logistics. By adopting digital tools, businesses can improve efficiency and responsiveness, ultimately benefiting customer satisfaction. The diverse business models adopted by these SMEs illustrate the need for innovation. Whether through unique product offerings, community-driven approaches, or social responsibility initiatives, SMEs should be willing to experiment with different strategies to differentiate themselves in a competitive market. The case studies of FMCG SMEs like Chicory, Humble Bundle, and Farmigo demonstrate the transformative impact of e-commerce and digital marketplaces on supply chain operations and customer engagement. By emphasizing customer experience, leveraging data analytics, building community trust, embracing technology, and experimenting with business models, these SMEs offer valuable lessons for others in the industry (Quansah *et al.*, 2022). As the digital landscape continues to evolve, the insights gained from these examples will be instrumental for SMEs seeking to thrive in the competitive FMCG market.

2.5 Challenges and Solutions in Adopting E-commerce Models

The rapid growth of e-commerce presents significant opportunities for small and medium-sized enterprises (SMEs) in the fast-moving consumer goods (FMCG) sector. However, the transition to e-commerce models also poses a variety of challenges. This examines common hurdles faced by FMCG SMEs in adopting e-commerce models and presents solutions to overcome these challenges, ensuring a successful digital transformation.

FMCG SMEs often encounter substantial costs associated with e-commerce platforms, including transaction fees, subscription fees, and promotional costs. These expenses can strain the limited budgets of SMEs, especially when coupled with intense competition from larger brands with more resources. Competing for visibility and market share on popular platforms like Amazon or Alibaba can be daunting, as these giants often have established reputations, customer bases, and marketing budgets (Keane *et al.*, 2020). Many SMEs may struggle with a lack of digital expertise within their teams. The skills required for managing e-commerce platforms, digital marketing, and data analytics are often outside the comfort zone of traditional business operations. This skills gap can hinder the effective implementation and management of e-commerce strategies, resulting in missed opportunities and inefficient operations. The transition to e-commerce necessitates a reevaluation of supply chain management and logistics. SMEs may face disruptions in their supply chains due to increased demand for online orders, inventory management challenges, and complexities in fulfillment. Efficiently managing logistics becomes critical, as consumers expect fast delivery times and accurate order fulfillment. Failure to meet these expectations can lead to customer dissatisfaction and loss of business.

To address logistical challenges and streamline operations, FMCG SMEs can collaborate with third-party logistics (3PL) partners. These partners provide comprehensive logistics solutions, including warehousing, inventory management, and order fulfillment. By outsourcing these functions, SMEs can focus on core business activities while benefiting from the expertise and resources of established logistics providers (Mageto *et al.*, 2020). This approach can lead to improved efficiency, reduced operational costs, and enhanced customer satisfaction through timely deliveries. To combat competition and navigate platform fees, SMEs can utilize digital marketing tools to enhance their visibility and reach. Search engine optimization (SEO), social media marketing, and targeted online advertising can significantly improve brand awareness and customer engagement. By leveraging data analytics, SMEs can tailor their marketing strategies to specific customer segments, ensuring more effective campaigns that resonate with their target audience. Addressing the digital skills gap is crucial for successful e-commerce adoption. FMCG SMEs should invest in training and upskilling their employees to equip them with the necessary knowledge and skills for digital transformation. This could include workshops, online courses, or partnerships with educational institutions. By fostering a culture of continuous learning, SMEs can empower their

workforce to adapt to evolving digital landscapes and effectively manage e-commerce operations. To mitigate supply chain disruptions, FMCG SMEs should consider adopting agile supply chain practices. This involves enhancing flexibility and responsiveness to changing market conditions. By leveraging technology, such as real-time inventory tracking and demand forecasting, SMEs can better manage their supply chains and optimize inventory levels. Collaborating with suppliers and utilizing data analytics can further enhance forecasting accuracy, ensuring that SMEs are prepared to meet consumer demand. While FMCG SMEs face various challenges in adopting e-commerce models, effective solutions exist to navigate these obstacles. By leveraging third-party logistics partners, utilizing digital marketing tools, investing in employee training, and adopting agile supply chain practices, SMEs can position themselves for success in the digital marketplace. Embracing these strategies will not only help SMEs overcome challenges but also enable them to thrive in an increasingly competitive and digitally driven environment (Yuen and Baskaran, 2023). As e-commerce continues to grow, the ability to adapt and innovate will be paramount for the long-term sustainability and success of FMCG SMEs.

Conclusion

The advent of e-commerce and digital marketplaces has fundamentally transformed supply chains and customer engagement strategies for small and medium-sized enterprises (SMEs) in the fast-moving consumer goods (FMCG) sector. This transformation has enabled SMEs to reach wider markets, enhance operational efficiency, and engage customers more effectively. By adopting e-commerce models, FMCG SMEs have been able to streamline their supply chain operations, improve logistics management, and offer personalized experiences that cater to the evolving preferences of consumers.

Looking ahead, the future of FMCG SMEs in the digital landscape is promising. Emerging trends such as artificial intelligence, machine learning, and advanced analytics are poised to play increasingly significant roles in shaping the digital transformation journey. These technologies can enhance decision-making processes, optimize supply chain management, and enable personalized marketing strategies, all of which are vital for staying competitive in a rapidly evolving market.

It is essential for FMCG SMEs to embrace digital platforms as a pathway to sustained growth and competitive advantage. By recognizing the opportunities presented by e-commerce and investing in the necessary technologies and skills, these enterprises can navigate challenges effectively and thrive in the digital marketplace. As consumer expectations continue to evolve, the proactive adoption of e-commerce and digital strategies will be crucial for FMCG SMEs aiming for long-term success in an increasingly competitive environment.

Reference

- [1]. Abhulimen, A.O. and Ejike, O.G., 2024. Enhancing dealership management software with AI integration for improved customer service and future innovations. *International Journal of Management & Entrepreneurship Research*, 6(8), pp.2561-2587.
- [2]. Abhulimen, A.O. and Ejike, O.G., 2024. Solving supply chain management issues with AI and Big Data analytics for future operational efficiency. *Computer Science & IT Research Journal*, 5(8), pp.1780-1805.
- [3]. Abhulimen, A.O. and Ejike, O.G., 2024. Technology integration in project and event management: Empowering women entrepreneurs. *International Journal of Management & Entrepreneurship Research*, 6(08), pp.2561-2587.
- [4]. Adewumi, A., Oshioye, E.E., Asuzu, O.F., Ndubuisi, N.L., Awonnuga, K.F. and Daraojimba, O.H., 2024. Business intelligence tools in finance: A review of trends in the USA and Africa. *World Journal of Advanced Research and Reviews*, 21(3), pp.608-616.
- [5]. Ajiga, D., Okeleke, P.A., Folorunsho, S.O. and Ezeigweneme, C., 2024. The role of software automation in improving industrial operations and efficiency.
- [6]. Ajiga, D., Okeleke, P.A., Folorunsho, S.O. and Ezeigweneme, C., 2024. Methodologies for developing scalable software frameworks that support growing business needs.
- [7]. Ajiga, D., Okeleke, P.A., Folorunsho, S.O. and Ezeigweneme, C., 2024. Navigating ethical considerations in software development and deployment in technological giants.
- [8]. Akinsulire, A.A., Idemudia, C., Okwandu, A.C. and Iwuanyanwu, O., 2024. Supply chain management and operational efficiency in affordable housing: An integrated review. *Magna Scientia Advanced Research and Reviews*, 11(2), pp.105-118.
- [9]. Akinsulire, A.A., Idemudia, C., Okwandu, A.C. and Iwuanyanwu, O., 2024. Public-Private partnership frameworks for financing affordable housing: Lessons and models. *International Journal of Management & Entrepreneurship Research*, 6(7), pp.2314-2331.
- [10]. Akinsulire, A.A., Idemudia, C., Okwandu, A.C. and Iwuanyanwu, O., 2024. Dynamic financial modeling and feasibility studies for affordable housing policies: A conceptual synthesis. *International Journal of Advanced Economics*, 6(7), pp.288-305.
- [11]. Akinsulire, A.A., Idemudia, C., Okwandu, A.C. and Iwuanyanwu, O., 2024. Strategic planning and investment analysis for affordable housing: Enhancing viability and growth. *Magna Scientia Advanced Research and Reviews*, 11(2), pp.119-131.
- [12]. Akinsulire, A.A., Idemudia, C., Okwandu, A.C. and Iwuanyanwu, O., 2024. Sustainable development in affordable housing: Policy innovations and challenges. *Magna Scientia Advanced Research and Reviews*, 11(2), pp.090-104.
- [13]. Akinsulire, A.A., Idemudia, C., Okwandu, A.C. and Iwuanyanwu, O., 2024. Economic and social impact of affordable housing policies: A comparative review. *International Journal of Applied Research in Social Sciences*, 6(7), pp.1433-1448.
- [14]. Daramola, G.O., Adewumi, A., Jacks, B.S. and Ajala, O.A., 2024. Conceptualizing communication efficiency in energy sector project management: the role of digital tools and agile practices. *Engineering Science & Technology Journal*, 5(4), pp.1487-1501.
- [15]. Daramola, G.O., Adewumi, A., Jacks, B.S. and Ajala, O.A., 2024. Navigating complexities: a review of communication barriers in multinational energy projects. *International Journal of Applied Research in Social Sciences*, 6(4), pp.685-697.
- [16]. Daramola, G.O., Jacks, B.S., Ajala, O.A. and Akinoso, A.E., 2024. Enhancing oil and gas exploration efficiency through ai-driven seismic imaging and data analysis. *Engineering Science & Technology Journal*, 5(4), pp.1473-1486.

- [17]. Daramola, G.O., Jacks, B.S., Ajala, O.A. and Akinoso, A.E., 2024. AI applications in reservoir management: optimizing production and recovery in oil and gas fields. *Computer Science & IT Research Journal*, 5(4), pp.972-984.
- [18]. Ejike, O.G. and Abbulimen, A.O., 2024. Addressing gender-specific challenges in project and event management: Strategies for women entrepreneurs. *International Journal of Scholarly Research in Multidisciplinary Studies*, 23(02), pp.034-043.
- [19]. Ejike, O.G. and Abbulimen, A.O., 2024. Empowerment through event management: A project management approach for women entrepreneurs. *International Journal of Scholarly Research in Multidisciplinary Studies*, 5(01), pp.015-023.
- [20]. Ejike, O.G. and Abbulimen, A.O., 2024. Sustainability and project management: A dual approach for women entrepreneurs in event management. *International Journal of Scholarly Research in Multidisciplinary Studies*, 5(01), pp.024-033.
- [21]. Ezeafulukwe, C., Bello, B.G., Ike, C.U., Onyekwelu, S.C., Onyekwelu, N.P. and Asuzu, O.F., 2024. Inclusive internship models across industries: an analytical review. *International Journal of Applied Research in Social Sciences*, 6(2), pp.151-163.
- [22]. Ezeafulukwe, C., Onyekwelu, S.C., Onyekwelu, N.P., Ike, C.U., Bello, B.G. and Asuzu, O.F., 2024. Best practices in human resources for inclusive employment: An in-depth review. *International Journal of Science and Research Archive*, 11(1), pp.1286-1293.
- [23]. Ezeafulukwe, C., Owolabi, O.R., Asuzu, O.F., Onyekwelu, S.C., Ike, C.U. and Bello, B.G., 2024. Exploring career pathways for people with special needs in STEM and beyond. *International Journal of Applied Research in Social Sciences*, 6(2), pp.140-150.
- [24]. Ezeh, M.O., Ogbu, A.D. and Heavens, A., 2024. The Role of Business Process Analysis and Re-engineering in Enhancing Energy Sector Efficiency.
- [25]. Ezeh, M.O., Ogbu, A.D., Ikevuje, A.H. and George, E.P.E., 2024. Enhancing sustainable development in the energy sector through strategic commercial negotiations. *International Journal of Management & Entrepreneurship Research*, 6(7), pp.2396-2413.
- [26]. Ezeh, M.O., Ogbu, A.D., Ikevuje, A.H. and George, E.P.E., 2024. Leveraging technology for improved contract management in the energy sector. *International Journal of Applied Research in Social Sciences*, 6(7), pp.1481-1502.
- [27]. Ezeh, M.O., Ogbu, A.D., Ikevuje, A.H. and George, E.P.E., 2024. Optimizing risk management in oil and gas trading: A comprehensive analysis. *International Journal of Applied Research in Social Sciences*, 6(7), pp.1461-1480.
- [28]. Ezeh, M.O., Ogbu, A.D., Ikevuje, A.H. and George, E.P.E., 2024. Stakeholder engagement and influence: Strategies for successful energy projects. *International Journal of Management & Entrepreneurship Research*, 6(7), pp.2375-2395.
- [29]. Eziamaka, N.V., Odonkor, T.N. and Akinsulire, A.A., 2024. Advanced strategies for achieving comprehensive code quality and ensuring software reliability. *Computer Science & IT Research Journal*, 5(8), pp.1751-1779.
- [30]. Eziamaka, N.V., Odonkor, T.N. and Akinsulire, A.A., 2024. AI-Driven accessibility: Transformative software solutions for empowering individuals with disabilities. *International Journal of Applied Research in Social Sciences*, 6(8), pp.1612-1641.
- [31]. Iwuanyanwu, O., Gil-Ozoudeh, I., Okwandu, A.C. and Ike, C.S., 2024. Retrofitting existing buildings for sustainability: Challenges and innovations.
- [32]. Iwuanyanwu, O., Gil-Ozoudeh, I., Okwandu, A.C. and Ike, C.S., 2024. The role of green building materials in sustainable architecture: Innovations, challenges, and future trends. *International Journal of Applied Research in Social Sciences*, 6(8), pp. 1935-1950
- [33]. Iwuanyanwu, O., Gil-Ozoudeh, I., Okwandu, A.C. and Ike, C.S., 2024. Retrofitting existing buildings for sustainability: Challenges and innovations (pp. 2616-2631).
- [34]. Iwuanyanwu, O., Gil-Ozoudeh, I., Okwandu, A.C. and Ike, C.S., 2024. Cultural and social dimensions of green architecture: Designing for sustainability and community well-being. *International Journal of Applied Research in Social Sciences*, 6(8), pp.1951-1968.
- [35]. Iwuanyanwu, O., Gil-Ozoudeh, I., Okwandu, A.C. and Ike, C.S., 2024. The role of green building materials in sustainable architecture: Innovations, challenges, and future trends. *International Journal of Applied Research in Social Sciences*, 6(8), pp.1935-1950.
- [36]. Iwuanyanwu, O., Gil-Ozoudeh, I., Okwandu, A.C. and Ike, C.S., 2022. The integration of renewable energy systems in green buildings: Challenges and opportunities. *Journal of Applied*.
- [37]. Keane, M., Yu, H., Zhao, E.J. and Leong, S., 2020. *Chinas digital presence in the asia-pacific: Culture, technology and platforms*. Anthem Press.
- [38]. Khattak, A. and Yousaf, Z., 2021. Digital social responsibility towards corporate social responsibility and strategic performance of hi-tech SMEs: Customer engagement as a mediator. *Sustainability*, 14(1), p.131.
- [39]. Mageto, J., Prinsloo, G. and Luke, R., 2020. Determinants of logistics outsourcing performance among small and medium enterprises. *International Journal of Logistics Systems and Management*, 35(4), pp.541-565.
- [40]. Nwaimo, C.S., Adegbola, A.E. and Adegbola, M.D., 2024. Data-driven strategies for enhancing user engagement in digital platforms. *International Journal of Management & Entrepreneurship Research*, 6(6), pp.1854-1868.
- [41]. Nwaimo, C.S., Adegbola, A.E. and Adegbola, M.D., 2024. Predictive analytics for financial inclusion: Using machine learning to improve credit access for under banked populations. *Computer Science & IT Research Journal*, 5(6), pp.1358-1373.
- [42]. Nwaimo, C.S., Adegbola, A.E. and Adegbola, M.D., 2024. Sustainable business intelligence solutions: Integrating advanced tools for long-term business growth.
- [43]. Nwaimo, C.S., Adegbola, A.E. and Adegbola, M.D., 2024. Transforming healthcare with data analytics: Predictive models for patient outcomes. *GSC Biological and Pharmaceutical Sciences*, 27(3), pp.025-035.
- [44]. Nwaimo, C.S., Adegbola, A.E., Adegbola, M.D. and Adeusi, K.B., 2024. Evaluating the role of big data analytics in enhancing accuracy and efficiency in accounting: A critical review. *Finance & Accounting Research Journal*, 6(6), pp.877-892.
- [45]. Nwaimo, C.S., Adegbola, A.E., Adegbola, M.D. and Adeusi, K.B., 2024. Forecasting HR expenses: A review of predictive analytics in financial planning for HR. *International Journal of Management & Entrepreneurship Research*, 6(6), pp.1842-1853.
- [46]. Nwosu, N.T. and Ilori, O., 2024. Behavioral finance and financial inclusion: A conceptual review and framework development. *World Journal of Advanced Research and Reviews*, 22(3), pp.204-212.
- [47]. Nwosu, N.T., 2024. Reducing operational costs in healthcare through advanced BI tools and data integration. *World Journal of Advanced Research and Reviews*, 22(3), pp.1144-1156.
- [48]. Nwosu, N.T., Babatunde, S.O. and Ijomah, T., 2024. Enhancing customer experience and market penetration through advanced data analytics in the health industry. *World Journal of Advanced Research and Reviews*, 22(3), pp.1157-1170.
- [49]. Okatta, C.G., Ajayi, F.A. and Olawale, O., 2024. Enhancing organizational performance through diversity and inclusion initiatives: a meta-analysis. *International Journal of Applied Research in Social Sciences*, 6(4), pp.734-758.
- [50]. Okatta, C.G., Ajayi, F.A. and Olawale, O., 2024. Leveraging HR analytics for strategic decision making: opportunities and challenges. *International Journal of Management & Entrepreneurship Research*, 6(4), pp.1304-1325.
- [51]. Okatta, C.G., Ajayi, F.A. and Olawale, O., 2024. Navigating the future: integrating AI and machine learning in hr practices for a digital workforce. *Computer Science & IT Research Journal*, 5(4), pp.1008-1030.
- [52]. Oyedokun, O.O., 2019. *Green human resource management practices and its effect on the sustainable competitive edge in the Nigerian manufacturing industry (Dangote) (Doctoral dissertation, Dublin Business School)*.

- [53]. Quansah, E., Hartz, D.E. and Salipante, P., 2022. Adaptive practices in SMEs: leveraging dynamic capabilities for strategic adaptation. *Journal of Small Business and Enterprise Development*, 29(7), pp.1130-1148.
- [54]. Toromade, A.S. and Chiekezie, N.R., 2024. Driving sustainable business practices in SMEs: Innovative approaches for environmental and economic synergy. *Int. J. Manag. Entrep. Res*, 6, pp.2637-2647.
- [55]. Toromade, A.S. and Chiekezie, N.R., 2024. GIS-driven agriculture: Pioneering precision farming and promoting sustainable agricultural practices.
- [56]. Toromade, A.S., Chiekezie, N.R. and Udo, W., 2024. The role of data science in predicting and enhancing economic growth: A case study approach. *International Journal of Novel Research in Marketing Management and Economics*, 11(2), pp.105-123.
- [57]. Toromade, A.S., Soyombo, D.A., Kupa, E. and Ijomah, T.I., 2024. Reviewing the impact of climate change on global food security: Challenges and solutions. *International Journal of Applied Research in Social Sciences*, 6(7), pp.1403-1416.
- [58]. Toromade, A.S., Soyombo, D.A., Kupa, E. and Ijomah, T.I., 2024. Technological innovations in accounting for food supply chain management. *Finance & Accounting Research Journal*, 6(7), pp.1248-1258.
- [59]. Toromade, A.S., Soyombo, D.A., Kupa, E. and Ijomah, T.I., 2024. Urban farming and food supply: A comparative review of USA and African cities. *International Journal of Advanced Economics*, 6(7), pp.275-287.
- [60]. Yuen, T.M. and Baskaran, S., 2023. Going digital for SMES: Adapting business model and seizing opportunities to achieve sustainable business performance. *Int J Acad Res Bus Soc Sci*, 13(11), pp.976-87.