

## **NAVIGATING MODERN RETAIL COMPETITION: ADAPTATION AND DIGITAL TRANSFORMATION OF MSMEs**

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**Abstract:** This study examines how micro, small, and medium enterprises (MSMEs) navigate modern retail competition through adaptation strategies and digital transformation. Drawing on a qualitative design complemented with survey-based validation, the research explores the challenges and opportunities faced by MSMEs in adopting technological solutions to enhance competitiveness. Semi-structured interviews with MSME owners, alongside survey data, were analyzed using thematic analysis and descriptive statistics. The findings reveal three critical dimensions: first, the adoption of innovative strategies such as omnichannel integration, product diversification, and customer engagement through digital platforms; second, the role of digital transformation, where e-commerce adoption, digital payment systems, and data-driven decision-making significantly improve operational efficiency and market reach; and third, persistent barriers including financial constraints, limited digital literacy, and cultural resistance that undermine successful adoption. Case studies, such as Warung Pintar in Indonesia and artisan cooperatives in Kenya, illustrate how digital tools can improve resilience, expand customer bases, and foster collaboration among MSMEs. The study highlights that enterprises capable of aligning digital tools with consumer preferences and building collaborative ecosystems are more likely to achieve sustainable competitiveness. The research contributes to the literature by integrating adaptation and digital transformation into a unified framework, while offering managerial and policy implications for promoting inclusive digitalization and strengthening MSME resilience in an increasingly competitive retail landscape.

**Keywords:** digital transformation, retail competition, adaptation strategies, resilience.

**Abstrak:** Penelitian ini mengkaji bagaimana usaha mikro, kecil, dan menengah (UMKM) menghadapi kompetisi ritel modern melalui strategi adaptasi dan transformasi digital. Dengan menggunakan desain kualitatif yang dilengkapi survei untuk validasi, penelitian ini mengeksplorasi tantangan dan peluang yang dihadapi UMKM dalam mengadopsi solusi teknologi guna meningkatkan daya saing. Data diperoleh melalui wawancara semi-terstruktur dengan pemilik UMKM serta survei yang dianalisis menggunakan thematic analysis dan statistik deskriptif. Hasil penelitian mengungkap tiga dimensi utama: pertama, adopsi strategi inovatif seperti integrasi omnichannel, diversifikasi produk, dan keterlibatan pelanggan melalui platform digital; kedua, peran transformasi digital, di mana adopsi e-commerce, sistem pembayaran digital, dan pengambilan keputusan berbasis data terbukti meningkatkan efisiensi operasional dan jangkauan pasar; ketiga, hambatan yang masih dominan berupa keterbatasan finansial, rendahnya literasi digital, serta resistensi budaya yang menghambat keberhasilan adopsi. Studi kasus seperti Warung Pintar di Indonesia dan koperasi pengrajin di Kenya menunjukkan bahwa alat digital dapat meningkatkan resiliensi, memperluas basis pelanggan, dan mendorong

kolaborasi antar-UMKM. Penelitian ini menekankan bahwa UMKM yang mampu menyelaraskan teknologi digital dengan preferensi konsumen serta membangun ekosistem kolaboratif memiliki peluang lebih besar untuk mencapai daya saing berkelanjutan. Kontribusi penelitian ini terletak pada integrasi strategi adaptasi dan transformasi digital dalam satu kerangka analisis, sekaligus menawarkan implikasi manajerial dan kebijakan bagi digitalisasi inklusif dan penguatan resiliensi UMKM di lanskap ritel yang semakin kompetitif.

**Kata Kunci:** UMKM, transformasi digital, kompetisi ritel, strategi adaptasi, resiliensi.

## Introduction

The retail industry has experienced profound changes in recent years, primarily driven by rapid technological advancements and shifting consumer behaviors. Global e-commerce transactions continue to expand significantly, reshaping traditional brick-and-mortar models and intensifying competition. For example, in 2021 alone, e-commerce sales in the United States reached \$870 billion, a 14.2% increase from the previous year (National Retail Federation, 2021)<sup>1</sup>. This evolution has accelerated the adoption of omnichannel strategies, where businesses integrate online and offline channels to enhance customer experience and competitiveness (Huang & Benyoucef, 2020)<sup>2</sup>.

Within this dynamic environment, micro, small, and medium enterprises (MSMEs) remain the backbone of local and global economies. They account for approximately 70% of employment and nearly 50% of GDP worldwide (International Labour Organization, 2020)<sup>3</sup>. In retail, MSMEs contribute by offering personalized services and niche products often overlooked by large corporations. However, they face structural barriers such as limited access to financing, inadequate technological resources, and uneven digital literacy, all of which undermine their competitiveness (OECD, 2020; World Bank, 2021)<sup>4</sup>.

To remain sustainable, MSMEs must adopt innovative adaptation strategies while embracing digital transformation. Case studies illustrate how small businesses that demonstrated agility—such as pivoting to online sales during the COVID-19 pandemic—were better able to withstand external shocks (Smith & Jones, 2021)<sup>5</sup>. Furthermore, evidence suggests that firms embracing digital tools, including e-commerce platforms, social media marketing, and customer relationship management systems, experience superior growth and resilience. McKinsey & Company (2022)<sup>6</sup> reported that digitally transformed companies were 2.5 times more likely to achieve revenue growth during the pandemic compared to their peers.

Despite the benefits, adoption of digital technologies is not without challenges. High implementation costs, limited technical expertise, and cultural resistance remain significant barriers for MSMEs (Global Entrepreneurship Monitor, 2022)<sup>7</sup>. Deloitte (2021)<sup>8</sup> found that

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<sup>1</sup> National Retail Federation. (2021). 2021 retail sales data: E-commerce and store performance. National Retail Federation. <https://nrf.com>

<sup>2</sup> Huang, Z., & Benyoucef, M. (2020). User behavior in social commerce: A social learning perspective. *Journal of Business Research*, 119, 309–317.

<sup>3</sup> International Labour Organization. (2020). Small and medium-sized enterprises: A key to job creation. ILO.

<sup>4</sup> OECD. (2020). The role of MSMEs in the economy: Challenges and opportunities. OECD Publishing.

<sup>5</sup> Smith, J., & Jones, L. (2021). Adapting to change: How small businesses survived the pandemic. *Journal of Small Business Management*, 59(3), 345–360.

<sup>6</sup> McKinsey & Company. (2022). The state of digital transformation in retail: Lessons from the pandemic. McKinsey Insights.

<sup>7</sup> Global Entrepreneurship Monitor. (2022). Global entrepreneurship report 2022. GEM Report.

<sup>8</sup> Deloitte. (2021). The digital transformation of small businesses: A global perspective. Deloitte Insights.

digitally integrated MSMEs achieved a 30% increase in productivity and a 20% reduction in costs, underscoring the importance of overcoming these obstacles to remain competitive.

This article seeks to explore two interrelated issues: (1) the adaptation strategies that enable MSMEs to navigate modern retail competition, and (2) the role of digital transformation in strengthening their operational efficiency and long-term sustainability. By integrating these perspectives, the study provides insights not only into the resilience of MSMEs but also into the policy and managerial interventions necessary to enhance their competitiveness.

The findings are expected to contribute in two ways. First, they enrich academic understanding of MSME strategies in retail by highlighting how technological innovation intersects with traditional business models. Second, they offer practical implications for policymakers and practitioners. Governments and industry stakeholders may design targeted programs, such as digital training initiatives, financial incentives, and infrastructure support, to empower MSMEs in adapting to evolving retail dynamics.

### **Methods**

This study employed a qualitative design to capture in-depth insights into participants' experiences, complemented by limited quantitative elements for triangulation. The qualitative approach was chosen as it allows exploration of context-specific phenomena beyond the scope of purely statistical analysis (Creswell & Poth, 2018)<sup>9</sup>.

Participants were selected purposively to ensure relevance to the research objectives. Data were collected through semi-structured interviews and surveys. Interviews provided depth, while surveys supported broader validation. All instruments were pre-tested to enhance reliability (Miles, Huberman, & Saldaña, 2019)<sup>10</sup>.

Thematic analysis was applied to identify recurring patterns, while descriptive statistics summarized survey responses. The integration of both approaches enhanced the robustness of findings (Braun & Clarke, 2021)<sup>11</sup>. To ensure trustworthiness, triangulation, member checking, and audit trails were employed. Ethical considerations, including informed consent and confidentiality, were strictly observed.

### **Results and Discussion**

The modern retail landscape has been reshaped by rapid technological advancement, the rise of e-commerce, and shifting consumer preferences. For Micro, Small, and Medium Enterprises (MSMEs), adaptation has become a survival imperative. This study identifies three main dimensions of adaptation: (1) successful strategies, (2) the extent of digital transformation, and (3) barriers to adoption. These findings are further enriched by selected case studies, followed by an integrated discussion on their implications, limitations, and contributions to MSME competitiveness.

#### *Adaptation Strategies and Digital Transformation*

MSMEs that adopt innovative strategies have shown measurable improvements in performance. Omnichannel integration, diversification of products, and customer engagement through personalized marketing emerge as key strategies. For example, a clothing retailer in Indonesia

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<sup>9</sup> Creswell, J. W., & Poth, C. N. (2018). *Qualitative inquiry and research design: Choosing among five approaches* (4th ed.). Sage Publications.

<sup>10</sup> Miles, M. B., Huberman, A. M., & Saldaña, J. (2019). *Qualitative data analysis: A methods sourcebook* (4th ed.). Sage Publications.

<sup>11</sup> Braun, V., & Clarke, V. (2021). *Thematic analysis: A practical guide*. Sage Publications.

leveraged Instagram to interact with customers and achieved a 50% sales increase within six months (Setiawan, 2022)<sup>12</sup>. Such evidence underscores the importance of aligning business models with consumer expectations.

Digital transformation has further amplified this process. According to McKinsey & Company (2022)<sup>13</sup>, nearly 70% of MSMEs have initiated digitalization, with 40% achieving more integrated systems. Practices such as e-commerce adoption, digital payments, and data-driven decision-making have proven critical. A small Brazilian coffee shop that introduced online ordering during COVID-19 reported a 25% revenue increase, demonstrating how digital tools can sustain and expand market reach (Santos et al., 2021)<sup>14</sup>.

However, barriers remain significant. The World Bank (2021)<sup>15</sup> highlighted that 60% of MSMEs cite financial constraints as the main obstacle, while 45% struggle with limited digital literacy and technology access. For instance, a small Philippine bookstore failed to adopt an e-commerce model due to insufficient resources and knowledge, leading to its closure (De Guzman, 2022)<sup>16</sup>. These barriers highlight the urgent need for inclusive policies, digital upskilling, and financial support.

#### *Case Studies and Lessons Learned*

Real-world cases illustrate both the potential and challenges of digital adaptation. "Warung Pintar," an Indonesian platform supporting traditional small shops, provides digital tools and access to broader markets. By 2023, it had partnered with over 10,000 retailers, enabling a 300% increase in sales for participating shops (Prabowo, 2023)<sup>17</sup>. Similarly, artisan cooperatives in Kenya have created digital marketplaces to increase visibility and reduce costs through collective purchasing (Ochieng, 2022)<sup>18</sup>.

These cases demonstrate that digital tools not only enhance operational efficiency but also foster collaboration. The lessons emphasize two essentials: (1) leveraging technology to improve customer experience, and (2) fostering networks among MSMEs for shared growth and resilience.

#### *Integrated Implications*

The findings highlight adaptation and digital transformation as intertwined imperatives for MSME sustainability. Enterprises that embrace digital tools enhance competitiveness, customer loyalty, and agility in responding to evolving consumer behavior. Conversely, those unable to adapt risk exclusion from the increasingly digital marketplace.

This integration points to three critical implications. First, MSMEs must prioritize digital literacy and strategic innovation. Second, collaboration among MSMEs can mitigate resource constraints. Third, supportive ecosystems—through policy, infrastructure, and financing—are essential for sustaining transformation.

#### *Limitations, Future Research, and Contribution*

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- <sup>12</sup> Setiawan, R. (2022). The role of social media marketing in driving sales for small businesses in Indonesia. *International Journal of Business and Management*, 17(4), 100–110.
- <sup>13</sup> McKinsey & Company. (2022). The state of digital transformation in small businesses.
- <sup>14</sup> Santos, D., Lima, T., & Ferreira, J. (2021). E-commerce adoption in small businesses during the pandemic: A case study from Brazil. *Brazilian Journal of Marketing*, 20(3), 220–235.
- <sup>15</sup> World Bank. (2021). The challenges of digital transformation for MSMEs.
- <sup>16</sup> De Guzman, R. (2022). The impact of digital transformation on small businesses in the Philippines. *Journal of Business Research*, 135, 123–130.
- <sup>17</sup> Prabowo, A. (2023). Warung Pintar: Revolutionizing traditional retail in Indonesia. *Asian Journal of Entrepreneurship and Innovation*, 12(1), 15–29.
- <sup>18</sup> Ochieng, M. (2022). Digital marketplaces and their impact on local artisans in Kenya. *African Journal of Business Management*, 16(2), 45–58.

While insightful, this study is limited by its focus on selected case studies, which may not represent the diversity of MSMEs globally. Future research could employ longitudinal designs to assess long-term impacts of digital adoption and investigate the role of government support. The study contributes to the literature by bridging two streams—adaptation strategies and digital transformation—into a single analytical framework. This holistic perspective offers actionable guidance for policymakers and practitioners, underscoring that MSME competitiveness in the modern retail landscape depends on the synergy of innovation, technology, and collaboration.

### Conclusion

Modern retail is undergoing rapid transformation, compelling Micro, Small, and Medium Enterprises (MSMEs) to adapt through digitalization and agility. Evidence shows that 70% of MSMEs adopting digital platforms report higher sales and wider market reach (International Finance Corporation [IFC], 2021)<sup>19</sup>. Similarly, Indonesian case studies demonstrate significant revenue growth after shifting to online sales (Sari & Rahman, 2022)<sup>20</sup>. These findings confirm that digital tools are not optional but strategic imperatives for MSME competitiveness.

Customer-centric digital practices further strengthen competitiveness, with 75% of consumers favoring personalized experiences (McKinsey & Company, 2021)<sup>21</sup>. Yet, financial and technical constraints persist, especially in developing economies, where 65% of MSMEs cite limited resources as barriers (World Bank, 2020)<sup>22</sup>. Thus, collaborative support from governments and financial institutions is vital.

Future research should explore (1) the role of emerging technologies such as AI in MSME efficiency (Deloitte, 2022)<sup>23</sup>, (2) evolving consumer behavior in response to digitalization, (3) comparative policy frameworks that promote MSME innovation, and (4) sector-specific challenges requiring tailored strategies.

In sum, MSMEs must embrace digitalization, agility, and customer focus to sustain competitiveness. By addressing structural barriers and leveraging supportive ecosystems, MSMEs can strengthen resilience and thrive in the digital retail era.

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<sup>20</sup> Sari, R., & Rahman, A. (2022). Case study on the impact of e-commerce on small businesses in Indonesia. *Journal of Business Research*, 134, 45–58.

<sup>21</sup> McKinsey & Company. (2021). The future of retail: How consumer behavior is changing. McKinsey Insights. <https://www.mckinsey.com>

<sup>22</sup> World Bank. (2020). MSMEs and the digital economy: Barriers to digital adoption. World Bank. <https://www.worldbank.org>

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