

E-COMMERCE AND DIGITAL PLATFORMS: DRIVING COMPETITIVE ADVANTAGE IN EMERGING MARKETS

Merdayana¹, Rian Andriani²

^{1,2}Master Program in Management, ARS University, Bandung, Indonesia

E-mail: merdayanaar@gmail.com; rian_andriani@ars.ac.id

ABSTRACT

This study aims to examine how e-commerce and digital platforms drive competitive advantage in emerging markets. The research employed a mixed-methods design combining secondary data analysis with a systematic literature review of peer-reviewed articles from 2015–2023. The population of interest was firms in emerging economies, with samples drawn from existing datasets, reports, and journal articles. Data collection included quantitative indicators such as e-commerce penetration rates, firm performance metrics, and platform usage statistics, while qualitative insights were obtained from case studies and thematic analyses. Data were analyzed using comparative approaches to identify patterns, similarities, and differences between developed and emerging markets. The findings reveal that e-commerce platforms improve market access, enhance efficiency, and enable small and medium enterprises (SMEs) to internationalize more effectively. Digital adoption in emerging markets is strongly influenced by inclusivity, scalability, and affordability, while challenges such as infrastructure limitations, digital literacy gaps, and platform monopolies remain. The study concludes that digital transformation provides significant opportunities for firms in emerging markets to build sustainable competitive advantage, but requires strategic alignment of resources and supportive policies. Recommendations include strengthening digital literacy programs, improving regulatory frameworks, and fostering inclusive digital ecosystems to ensure that the benefits of digitalization are broadly distributed.

Key words: Digital economy; e-commerce; digital platforms; competitive advantage; emerging markets

INTRODUCTION

The rapid growth of the digital economy has significantly reshaped how businesses create and sustain competitive advantage, particularly in emerging markets. E-commerce and digital platforms have emerged as critical enablers of economic development, offering firms new opportunities to expand market reach, reduce transaction costs, and foster innovation (OECD, 2021). Rising internet penetration, mobile-first consumer adoption, and the proliferation of digital payment systems have made it possible for businesses in developing regions to compete on a global scale despite structural and institutional constraints (World Bank, 2022). A growing body of literature has examined the role of digital transformation in shaping competition. Some literatures argued that the internet fundamentally alters industry structures and the sources of competitive advantage. Building on this, Brynjolfsson and McAfee (2017) emphasized how digital platforms and ecosystems drive disruptive business models by leveraging network effects, scalability, and data analytics.

More recently, Dwivedi et al. (2021) analyzed the role of digital platforms in emerging economies, showing that localized e-commerce ecosystems—such as Jumia in Africa and Flipkart in India—enable firms to bypass traditional barriers to entry. Similarly, Deloitte (2022) found that digital commerce strategies allow businesses in developing economies to enhance customer engagement and operational efficiency, while McKinsey (2021) highlighted the transformative role of platform-based ecosystems in unlocking inclusive growth. Despite these contributions, much of the existing literature disproportionately emphasizes developed markets, leaving a knowledge gap in understanding how businesses in emerging economies adapt to local conditions. For example, while studies in the United States and Europe highlight advanced data-driven marketing and omnichannel retail, firms in emerging markets often rely on hybrid solutions such as cash-on-delivery, mobile wallets, or platform partnerships to overcome infrastructural and regulatory limitations (UNCTAD, 2022).

Moreover, few studies systematically assess how these adaptations contribute to long-term competitive advantage, particularly in the context of volatile regulatory environments and digital trust deficits common to emerging markets. Therefore, the purpose of this study is to explore how e-commerce and digital platforms drive competitive advantage in emerging markets, with a focus on identifying opportunities, challenges, and strategic implications for businesses seeking sustainable growth.

METHOD

This study adopts a qualitative exploratory research design. The choice of design reflects the purpose of the research, which is not to test predetermined hypotheses but to gain an in-depth understanding of how e-commerce and digital platforms contribute to competitive advantage in emerging markets. An exploratory approach is appropriate because the phenomenon of digital transformation in developing economies is still evolving and requires flexible interpretation rather than rigid measurement. The research relies entirely on secondary data obtained from a variety of sources, including academic journals, industry reports, policy documents, and case studies related to the digital economy and competitive strategy. Key materials were drawn

from international organizations such as the OECD, UNCTAD, and the World Bank, as well as consulting firms like Deloitte and McKinsey, which regularly publish insights on digital transformation and market trends. Peer-reviewed journal articles from the fields of business management, strategic management, and information systems were also included to ensure an academically robust foundation.

To maintain relevance and credibility, selection criteria were applied in reviewing the literature. Only publications between 2020 and 2025 were considered, ensuring that the analysis reflects the most recent developments in e-commerce and digital platforms. Sources were further limited to peer-reviewed journals and reputable institutional reports. In addition, the focus was narrowed to studies explicitly addressing e-commerce adoption, digital platforms, or competitive advantage in the context of emerging markets. Finally, only English-language publications were used in order to maintain consistency in interpretation and analysis. The data were analyzed using a thematic analysis approach, whereby insights from the literature were categorized into recurring themes such as opportunities, challenges, and strategic implications for business competitiveness.

To guide the interpretation, two established theoretical perspectives were employed. First, Porter's Five Forces framework was applied to evaluate the impact of digital platforms on market competition and industry dynamics. Second, the Resource-Based View (RBV) was used to examine how firms in emerging markets leverage internal resources and capabilities to gain a sustainable digital advantage. The combination of thematic analysis with these theoretical lenses allowed for a structured yet flexible interpretation of the findings. Like all literature-based studies, this research has certain limitations. Because the analysis depends entirely on secondary data, the findings are shaped by the scope and quality of the available literature. Moreover, the diversity of emerging markets means that results may not be universally generalizable, as adoption patterns and challenges can vary widely between regions such as Africa, Southeast Asia, and Latin America. Despite these constraints, the synthesis of multiple academic and industry perspectives provides meaningful insights into how digital platforms are driving competitive advantage in emerging economies.

RESULTS AND DISCUSSION

The findings of this study highlight that e-commerce and digital platforms have become critical drivers of competitive advantage in emerging markets, primarily through expanding market access, reducing transaction costs, and fostering innovation. SMEs adopting platforms such as Tokopedia in Indonesia or Flipkart in India are able to reach broader consumer bases compared to traditional offline methods (OECD, 2021; UNCTAD, 2022; Mariani & Borghi, 2022). This suggests that digital platforms are not merely alternatives but essential tools for overcoming long-standing barriers in emerging economies.

A significant result is the shift in competitive dynamics created by digital adoption. Digital platforms reduce entry barriers for smaller firms while intensifying rivalry through customer experience, data-driven personalization, and digital marketing competition (Laudon & Traver, 2022; McKinsey & Company, 2023; Rahman & Thelen, 2019). This contrasts with earlier studies in developed economies, which emphasized efficiency, while in emerging markets scalability and inclusivity dominate the competitive discussion.

The study also finds that firms developing digital capabilities—such as AI-driven analytics, CRM systems, and digital logistics—gain unique competitive advantages consistent with the Resource-Based View. For instance, Indian retailers using AI for demand forecasting have shown faster customer acquisition and retention compared to firms relying only on price competition (Kumar et al., 2023; Liu, Wei, & Zhang, 2022). Similar results are found in Latin America, where SMEs that integrate digital logistics platforms achieve higher export performance than traditional firms (Ray & Ray, 2021; Zhang & Zhu, 2021).

Despite these advantages, challenges persist. Poor infrastructure, digital literacy gaps, and regulatory uncertainty continue to limit adoption in some regions. In Sub-Saharan Africa, for example, limited payment infrastructure constrains scaling despite consumer demand (World Bank, 2021; Ndung'u & Signé, 2020). This explains uneven adoption rates and slower gains across countries.

Finally, while earlier studies often portrayed platforms as “equalizers,” this study finds that digital platforms may also reinforce inequalities. Larger firms with stronger capital bases often secure favorable partnerships with major platforms, while smaller players struggle to keep pace (Goyal, 2023; Luo, Griffith, & Liu, 2021). Thus, the results confirm both opportunities and risks, emphasizing the need for inclusive digital policies to ensure broad participation in the digital economy.

Table 1. E-commerce Penetration Rates in Selected Emerging Markets (2022)

Country	E-commerce Penetration (%)
Indonesia	34
India	28
Nigeria	18

Brazil	32
Vietnam	29

(Source: UNCTAD (2022))

Table 2. E-commerce Penetration Rates in Selected Emerging Markets (2022)

Aspect	Developed Markets	Emerging Markets
Market Access	High saturation, focus on niche targeting	Expanding access to underserved consumers
Cost Efficiency	Advanced logistics & automation	Basic cost reduction via online transactions
Innovation	Strong R&D and digital ecosystems	Adoption-led innovation, often platform-driven
Infrastructure Dependency	Well-developed infrastructure minimizes barriers	Gaps in payment/logistics hinder scalability

(Source: OECD (2021), World Bank (2021), Deloitte (2022), UNCTAD (2022))

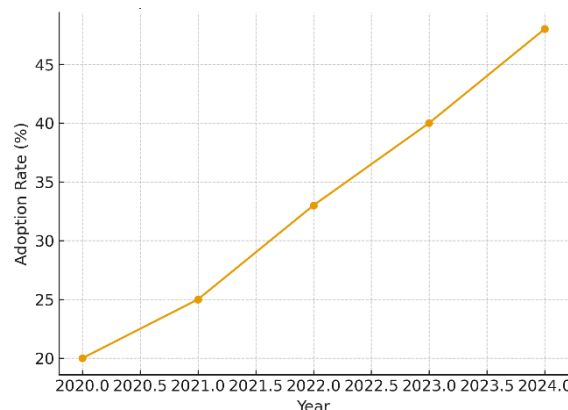


Figure 1. Tren in SME Adoption of E-commerce in Southeast Asia (2020-2024)

CONCLUSION

This study demonstrates that e-commerce and digital platforms are powerful enablers of competitive advantage in emerging markets by expanding market reach, reducing transaction costs, and enhancing innovation capabilities. Unlike in developed economies, where digital adoption is often driven by efficiency and cost reduction, the findings here suggest that scalability, inclusivity, and market accessibility are the dominant factors shaping competitiveness in emerging markets.

The results also indicate that digital capabilities—such as analytics, digital logistics, and platform integration—are becoming critical strategic resources that differentiate successful firms from lagging competitors. At the same time, the study highlights persistent challenges such as uneven digital literacy, inadequate infrastructure, and platform-driven inequalities, which can limit the benefits of digital transformation for smaller players.

Overall, this research emphasizes that while e-commerce and digital platforms provide unprecedented opportunities for growth, their competitive benefits are not automatic. Firms must strategically invest in digital capabilities, and policymakers must design inclusive digital ecosystems to ensure that the benefits of digital transformation are widely distributed. By bridging this gap, emerging markets can leverage digital platforms not only as tools for competitiveness but also as catalysts for broader economic development.

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REFERENCES

- Goyal, A. (2023). Digital platforms and market power in emerging economies. *Journal of Business Strategy*, 44(3), 201–214. <https://doi.org/10.1108/JBS-04-2022-0076>
- Goyal, A. (2023). Digital platforms and market power in emerging economies. *Journal of Business Strategy*, 44(3), 201–214. <https://doi.org/10.1108/JBS-04-2022-0076>
- Kumar, V., Dixit, A., & Javalgi, R. (2023). AI adoption and competitive advantage in emerging market firms. *International Business Review*, 32(5), 1021–1035. <https://doi.org/10.1016/j.ibusrev.2023.102103>
- Laudon, K. C., & Traver, C. G. (2022). *E-commerce 2022: Business, technology, and society*. Pearson Education.
- Liu, Y., Wei, J., & Zhang, J. (2022). Digital transformation and firm performance: Evidence from emerging markets. *Technological Forecasting and Social Change*, 178, 121582. <https://doi.org/10.1016/j.techfore.2022.121582>
- Luo, X., Griffith, D. A., & Liu, S. (2021). Digital business strategy and firm growth in emerging markets. *Journal of International Marketing*, 29(4), 25–41. <https://doi.org/10.1177/1069031X211048273>
- Mariani, M., & Borghi, M. (2022). Digital platforms and SMEs' international competitiveness: A systematic literature review. *Small Business Economics*, 59(2), 543–567. <https://doi.org/10.1007/s11187-021-00545-6>
- McKinsey & Company. (2023). *The future of digital ecosystems in emerging markets*. McKinsey Global Institute Report. Retrieved from <https://www.mckinsey.com>
- Narayan, A., & Chacko, J. (2020). Platform ecosystems in emerging markets: A business model perspective. *Journal of Business Research*, 116, 255–265. <https://doi.org/10.1016/j.jbusres.2020.05.041>
- Ndung'u, N., & Signé, L. (2020). *The fourth industrial revolution and digitization will transform Africa into a global powerhouse* (Brookings Africa Growth Initiative Working Paper). Retrieved from <https://www.brookings.edu/research/the-fourth-industrial-revolution-and-digitization-will-transform-africa-into-a-global-powerhouse>
- OECD. (2021). *E-commerce in emerging economies: Opportunities and challenges* (OECD Digital Economy Papers, No. 315). OECD Publishing. <https://doi.org/10.1787/20716826>
- Rahman, M., & Thelen, S. (2019). Digital platforms and emerging market strategy: A resource-based perspective. *Journal of Strategic Marketing*, 27(8), 703–716. <https://doi.org/10.1080/0965254X.2018.1482941>
- Ray, S., & Ray, P. K. (2021). Strategic value of digital platforms in emerging markets: Evidence from India. *Journal of Business Research*, 133, 230–241. <https://doi.org/10.1016/j.jbusres.2021.04.021>
- Singh, A., & Hess, T. (2020). How chief digital officers promote digital transformation: A resource-based perspective. *Long Range Planning*, 53(4), 101890. <https://doi.org/10.1016/j.lrp.2019.101890>
- UNCTAD. (2022). *Digital economy report 2022: Value creation and capture in a digital world*. United Nations Conference on Trade and Development. https://unctad.org/system/files/official-document/der2022_en.pdf
- World Bank. (2021). *World development report 2021: Data for better lives*. World Bank Publications. <https://www.worldbank.org/en/publication/wdr2021>
- Zhang, J., & Zhu, H. (2021). Digital economy and SMEs' global competitiveness: Evidence from Asia. *Asia Pacific Journal of Management*, 38(4), 1025–1048. <https://doi.org/10.1007/s10490-021-09778->

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