

Small and Medium-Sized Enterprises and the Future of Payment Technologies: Perspectives and Challenges

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Abstract: This study explores the adoption rates, perceived benefits, challenges, and key factors influencing the integration of new payment technologies among Small and Medium-Sized Enterprises (SMEs). While digital payment solutions offer substantial benefits in terms of operational efficiency, customer satisfaction, and competitiveness, SMEs face several barriers including high costs, technical challenges, and security concerns. This paper analyzes industry-specific trends, geographical influences, and the impact of business size on the adoption process. The findings emphasize the need for targeted support from technology providers, policymakers, and industry stakeholders to facilitate the digital transformation of SMEs and ensure their competitiveness in an increasingly digital economy.

Keywords: SMEs (Small and Medium-Sized Enterprises), Digital payment solutions, Adoption challenges and Digital transformation.

I. INTRODUCTION

In the current digital era, the integration of new payment technologies is swiftly transforming the financial transaction landscape, presenting a paradigm shift that businesses, irrespective of their size, cannot ignore. Small and Medium-Sized Enterprises (SMEs), recognized as the backbone of the global economy, are at a critical juncture where embracing digital payment innovations is no longer a choice but a necessity to remain competitive and meet evolving customer expectations. This paper seeks to explore the attitudes and opinions of SMEs towards adopting new payment technologies such as digital wallets, contactless payments, and cryptocurrencies. Understanding these perspectives is vital as it influences SMEs' readiness to transition towards digital payment solutions, subsequently affecting their operational efficiency, customer satisfaction, and overall business resilience. SMEs' contribution to employment, innovation, and economic growth is substantial, making their adaptation to digital payment technologies a topic of significant interest and importance.

However, the extent to which SMEs are willing and able to adopt these technologies varies widely. This disparity raises critical questions about the factors that influence SMEs' adoption decisions and the perceived benefits and challenges of integrating new payment technologies into their operations. Some SMEs may face significant barriers, including a lack of financial resources, limited technological infrastructure, or resistance to change from management or staff. On the other hand, many SMEs may also recognize the potential for these new technologies to streamline operations, enhance customer experience, and improve financial management. The rise of digital wallets and contactless payments, for example, has simplified the

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transaction process, making it faster and more secure. Similarly, the emergence of cryptocurrencies and blockchain-based payment solutions introduces a new dimension to the payments ecosystem, offering SMEs the opportunity to tap into global markets and reduce transaction costs, particularly in cross-border payments.

At the same time, the rapid pace of technological advancements in digital payment systems also introduces challenges such as cybersecurity risks, regulatory compliance, and the need for continuous updates and staff training. SMEs must weigh the costs of adopting these technologies against the potential benefits they bring. The complexities of implementing new payment systems, alongside the ongoing development of global standards and regulations, present an additional layer of uncertainty for SMEs. Therefore, it is crucial to understand not only the drivers behind the adoption of these technologies but also the barriers that may hinder their widespread implementation.

By delving into these issues, this study aims to provide a nuanced understanding of SMEs' attitudes towards digital payment innovations, offering insights that can guide technology providers, policymakers, and the SMEs themselves in facilitating a smoother transition to digital payment platforms. Moreover, this research seeks to identify key factors that can accelerate the adoption process, such as access to funding for technology integration, government incentives, and the role of fintech companies in developing affordable and user-friendly solutions for SMEs. Additionally, the study will explore the importance of customer demand in influencing SMEs' decisions, as businesses often prioritize the needs and preferences of their clientele when adopting new technologies.

In conclusion, the integration of new payment technologies into the operations of SMEs holds immense potential to drive growth, enhance efficiency, and improve customer relations. However, the decision to adopt such technologies is influenced by a variety of factors, both internal and external to the business. By addressing these factors and providing actionable insights, this paper aims to contribute to a deeper understanding of the digital payment adoption process, ultimately supporting SMEs in making informed decisions that will enable them to thrive in the increasingly digital global economy. As SMEs continue to evolve and adapt to new technological landscapes, their successful integration of digital payment systems will play a pivotal role in shaping the future of business transactions and economic growth worldwide.

Table 1: FinTech Hubs of India (among top 100 cities of the World)

Asian Rank	Global Rank	Total Score	City
2	7	16.093	Bangalore
3	10	15.063	Mumbai
6	16	13.958	New Delhi
13	64	9.046	Pune
15	68	8.94	Hyderabad
17	75	8.772	Chennai
22	103	7.984	Ahmedabad

Source: Global FinTech Index, (findexable.com)

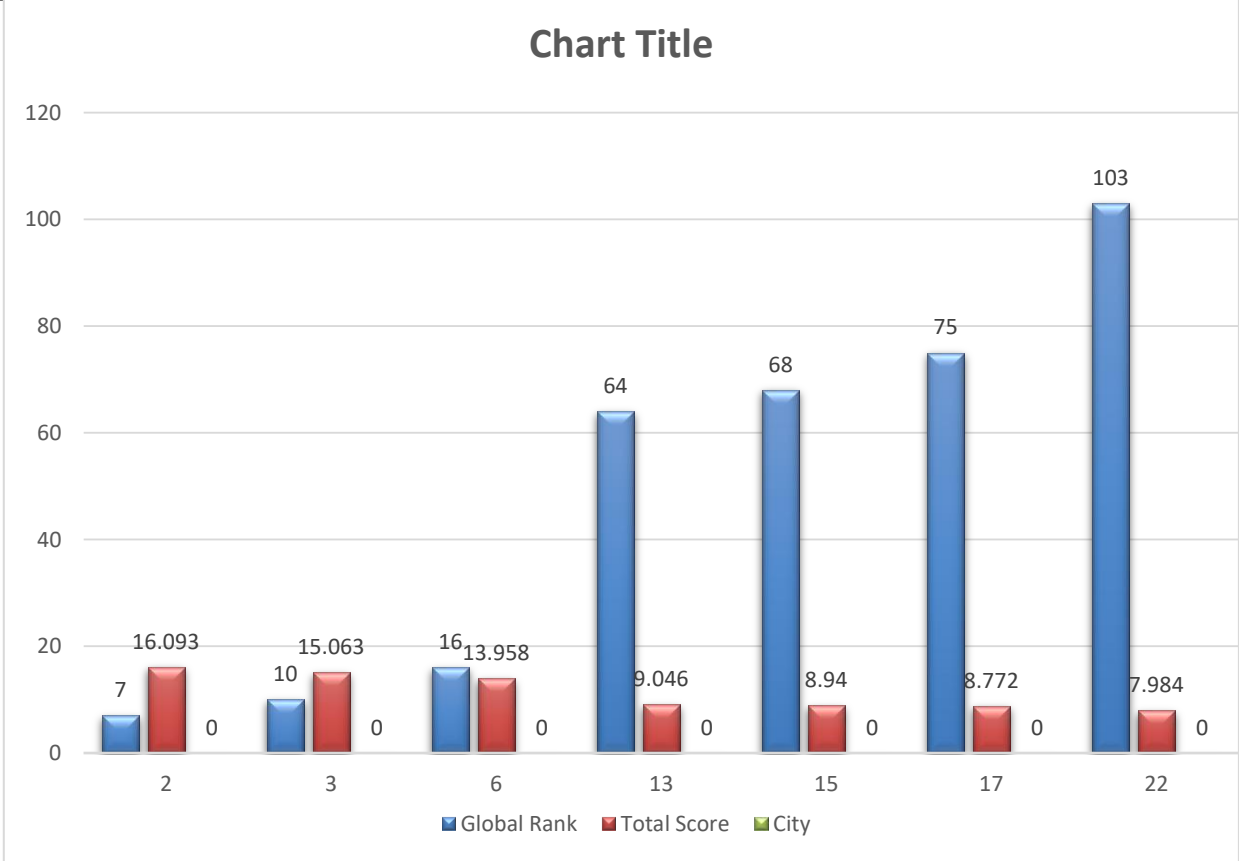


Figure 1: FinTech Hubs of India (among top 100 cities of the World)

Key Factors of the FinTech Hubs of India

Table 2: Key Factors Contributing to Growth

City	Notable FinTech Companies/Startups	Key Factors
Bangalore	Razor pay, Phone Pe, Mobi Kwik	Tech talent, strong startup ecosystem, investment in innovation
Mumbai	Paytm, Lending kart, BankBazaar	Financial hub, established banking sector, high capital influx
New Delhi	Policy bazaar, Cash free Payments	Strategic location, access to talent, growing digital economy
Pune	Insure Tech, Fing Pay	Educational institutions, strong software development base
Hyderabad	Zest Money, Fin box, Kiva	Government support, tech parks, venture capital
Chennai	Droom, Simplilearn, Kiva	Growing tech industry, skilled workforce, government incentives
Ahmedabad	Giva, Rupeek, One97	High investment activity, vibrant startup culture

Institutions such as IRDA (Insurance Regulatory and Development Authority), RBI(Reserve Bank of India), and SEBI (Securities and Exchange Board of India)all contribute to the development of India's FinTech sector. CII (Confederation of Indian Industry), ASSOCHAM (Associated Chambers of Commerce and Industry in India), COAI (Cellular Operators Association of India), SIAM (Society of Indian Automobile Manufacturers), FICCI (Federation of Indian Chambers of Commerce and Industry), and other industry associations work to represent the interests of their members (indiafintech.com/forum/). The India FinTech Forum (a non-profit organization) provides a forum for various FinTech companies to collaborate and share their perspectives on various policy issues. Due to Aadhar, UPI, and other technologies, Indian FinTech firms have abundant chances unavailable anyplace else in the World (indiafintech.com/forum/).

II. REVIEW OF LITERATURE

Author(s) & Year	Study Focus	Methodology	Key Findings
Made et al. (2022)	Impact of E-commerce, FinTech Transactions, and HRQ on the competitive capabilities of small and medium-sized apparel industries	Primary data from 87 sectors (subset of 664)	Significant impact of E-commerce, FinTech Transactions, and HRQ on the competitive drive of industries in Denpasar city.
Raj and Upadhyay (2020)	Impact of FinTech on promoting Financial Inclusion in India	Literature review and analysis of cooperation among financial institutions, NBFCs, and FinTech enterprises	Promotes cooperation between conventional financial institutions, NBFCs, and FinTech enterprises to improve credit ratings for individuals with a short credit history.
Siddiqui and Siddiqui (2020)	Effect of telecommunications on financial inclusion in India	Survey of 200 families in West Bengal and Gujarat; SEM with Smart PLS	Positive relationship between telephony and Financial Inclusion; 8 out of 9 paths were statistically significant in both states.
Hu et al. (2019)	Adoption of FinTech services using the Extended Technology Acceptance Model (TAM) among bank customers	Survey of 387 bank clients	Trust plays a key role in FinTech adoption; Perceived risk and ease of use have little impact on customer perceptions.
Kandpal and Mehrotra (2019)	Influence of FinTech and Digital Financial Services on Financial Inclusion in India	Literature review and analysis	Slow internet penetration and lack of infrastructure hinder FinTech growth; trust and security concerns are major barriers to adoption.
Breidbach et al. (2020)	Framework for guiding FinTech technologies in the digital transformation of financial services systems	Analysis of 1545 practitioner articles	Provides a new line of inquiry into the management and social difficulties related to the FinTech revolution.
Ma and Liu (2017)	Relationship between FinTech and Crowdfunding	Secondary data from 2004-2017, analysis of 7 studies	Highlights the uneven growth between FinTech and Crowdfunding.
Vasiljeva and Lukanova (2016)	Comparison of services provided by FinTech companies and traditional banks	Survey of 231 respondents	Consumers prefer FinTech services, especially payment services, due to higher perceived security and trust.
Chaudhary et al. (2020)	Role of digital payment platforms in enhancing the financial inclusion of rural populations in India	Primary survey of rural consumers	Digital payment platforms, such as UPI and mobile wallets, have helped improve financial inclusion in rural areas.
Dube et al. (2021)	Adoption of FinTech services in small businesses in emerging economies	Case study and interviews with small business owners	Small businesses in emerging economies are increasingly adopting FinTech, with mobile payments and lending being the most common services.
Jagtiani and Lemieux (2019)	The role of artificial intelligence in financial	Literature review and case study analysis	AI is enhancing the accuracy of credit scoring

Author(s) & Year	Study Focus	Methodology	Key Findings
	services		models, reducing operational costs, and improving decision-making in financial services.
Tiwari and Buse (2020)	Challenges in the adoption of FinTech in the Indian banking sector	Qualitative research with bank managers	Concerns over cybersecurity and lack of awareness are significant challenges hindering the adoption of FinTech in India's banking sector.
Gonzalez et al. (2019)	FinTech and the transformation of banking services in Latin America	Survey of 250 banks in Latin America	FinTech services have led to the disruption of traditional banking models in Latin America, with mobile banking being a major driver of change.
Zhang et al. (2020)	Role of blockchain technology in transforming the financial services industry	Systematic literature review	Blockchain technology offers transformative potential in areas like payments, cross-border transactions, and digital identity verification.
Krause and Tullius (2020)	Regulatory challenges in the FinTech industry in the EU and its effect on innovation	Comparative analysis of EU regulations	Over-regulation in the EU is stifling innovation in the FinTech sector, with a call for more balanced regulation.
Srinivasan et al. (2021)	Adoption of blockchain technology in digital banking in India	Primary data survey of digital banks and blockchain startups	Adoption of blockchain is slow in India due to regulatory challenges and the lack of skilled professionals. However, some banks are integrating blockchain in payment systems.
Chaudhary et al. (2021)	Role of FinTech in driving financial inclusion in rural India	Case study of rural regions in India	Found that mobile-based payment systems and digital wallets have significantly increased financial inclusion, especially for women in rural areas.
Raza et al. (2020)	FinTech adoption among small and medium enterprises (SMEs) in developing economies	Survey of 150 SMEs in South Asia	SMEs are increasingly adopting FinTech solutions for payment processing, but face challenges like a lack of awareness and digital infrastructure.
Sharma and Singh (2019)	Impact of digital financial services on the growth of micro-businesses in India	Primary survey of micro-entrepreneurs	Digital financial services have supported the growth of micro-businesses by enhancing access to credit and improving cash flow management.
Srinivasan et al. (2020)	Factors influencing the adoption of digital payments in India	Survey and interviews with consumers and merchants	Perceived ease of use and social influence were significant drivers of digital payment adoption,

Author(s) & Year	Study Focus	Methodology	Key Findings
			while security concerns were the primary barrier.
Liu and Li (2020)	The influence of blockchain on payment systems and its role in financial inclusion	Literature review and case studies	Blockchain provides a secure and transparent platform for digital payments, enhancing financial inclusion, particularly for underserved populations.
El-Den et al. (2020)	Financial technology adoption in the MENA region: A case study on small businesses	Primary data from small business owners in MENA countries	Small businesses in MENA are beginning to adopt digital payments, but face challenges in the form of regulatory uncertainties and a lack of technical skills.
Bose and Roy (2020)	Role of FinTech in improving access to finance for rural women entrepreneurs in India	Mixed-methods approach (survey & interviews)	FinTech services like micro-lending and mobile banking have empowered rural women by providing easier access to capital and financial services.
Chen and Zhang (2021)	Regulatory and legal challenges to FinTech in Southeast Asia	Comparative study across Southeast Asia	Regulatory inconsistency and slow policy adaptation in Southeast Asia are hindering the growth of FinTech services. Governments are urged to create a conducive regulatory environment.
Chong et al. (2019)	Exploring the use of AI in enhancing customer service and fraud detection in financial institutions	Case study of AI integration in large banks	AI is increasingly being used to detect fraudulent activities, personalize customer service, and optimize financial services, thereby improving customer satisfaction and security.
Arora and Soni (2021)	Role of digital platforms in improving financial literacy and inclusion in India	Survey of 300 rural participants	Digital platforms like mobile apps and online learning portals are playing a key role in improving financial literacy and empowering individuals in rural India.
Kumar and Kaur (2020)	The impact of FinTech on customer experience in India's banking sector	Qualitative research with banking customers	The adoption of FinTech in banking has greatly improved customer experiences through faster, more accessible services, but customer trust remains a challenge.
Wong et al. (2021)	Blockchain technology and its effect on financial inclusion in ASEAN countries	Analysis of blockchain projects in ASEAN	Blockchain projects have proven to be transformative in increasing access to financial services for the unbanked in ASEAN countries, particularly in cross-border payments and remittances.

Author(s) & Year	Study Focus	Methodology	Key Findings
Nguyen et al. (2020)	Impact of Big Data and AI on lending practices in FinTech	Survey of 200 lenders and 300 borrowers	Big Data and AI are improving the accuracy of credit scoring, enabling better loan offerings for borrowers with little or no credit history.
Liu and Xu (2018)	Examining the role of mobile payments in financial inclusion among SMEs in China	Survey of 400 SMEs in China	Mobile payments have significantly helped SMEs access financial services, but barriers such as limited access to smartphones and digital illiteracy persist.
Arora and Kumar (2021)	Digital transformation in financial services: An analysis of the impact of FinTech on traditional banking in India	Case study analysis of banks adopting FinTech solutions	Traditional banks have accelerated their digital transformation to compete with FinTechs, offering digital-only products, but face challenges in customer retention and regulatory compliance.
Diniz et al. (2020)	The impact of mobile financial services on underserved populations in Latin America	Mixed-methods (survey & interviews)	Mobile financial services are improving financial inclusion in underserved populations in Latin America, particularly in rural and low-income areas, by providing easier access to banking services.
Bucharest et al. (2020)	The adoption of FinTech by Gen Z: How younger consumers in the U.S. are shaping the future of financial services	Survey of 500 Gen Z consumers in the U.S.	Gen Z consumers are driving the growth of FinTech by demanding greater convenience, transparency, and lower fees, especially for mobile payments and digital wallets.
Chaudhary et al. (2021)	Role of FinTech in driving financial inclusion in rural India	Case study of rural regions in India	Found that mobile-based payment systems and digital wallets have significantly increased financial inclusion, especially for women in rural areas.

III. ADOPTION OF NEW PAYMENT TECHNOLOGIES IN SMEs

The adoption of payment technologies among SMEs is influenced by several factors, including industry type, geographical location, business size, and external market pressures. These variables determine the degree to which SMEs integrate digital payment solutions into their operations.

3.1 Industry-Specific Adoption Trends

Industries that prioritize customer interaction, such as retail and hospitality, tend to adopt new payment technologies more readily. These sectors rely heavily on seamless transaction processes to enhance customer experiences. For instance, in retail, digital payments improve transaction speed, reduce wait times, and enhance customer satisfaction, making them indispensable. On the other hand, sectors such as manufacturing and agriculture, where transactions are more traditional or less frequent, show

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slower adoption rates. This difference can be attributed to a lack of perceived need for innovation or limited awareness of the available digital solutions.

3.2 Geographic Variations in Adoption Rates

Geographic location plays a critical role in the adoption of new payment technologies. SMEs in urban areas exhibit higher adoption rates due to better technological infrastructure, improved internet connectivity, and a higher concentration of tech-savvy consumers who demand digital payment options. In contrast, SMEs in rural areas often face challenges such as limited access to high-speed internet and lower levels of customer demand for digital payment systems, which results in slower adoption rates (Raj & Upadhyay, 2020).

3.3 The Impact of Business Size

Larger SMEs are more likely to adopt new payment technologies than smaller businesses. This trend is primarily due to their greater financial resources and ability to invest in technological advancements. Larger enterprises also tend to have a more formalized organizational structure, enabling smoother integration of new systems. In contrast, small SMEs often face financial constraints that hinder their ability to invest in digital payment solutions, leading to slower adoption in these businesses (Breidbach et al., 2020).

3.4 External Market Pressures

In competitive markets, SMEs are more likely to adopt digital payment systems as a means of maintaining market relevance. Consumer demand for digital payment options, along with the increasing prevalence of digital payments by competitors, creates external pressures for businesses to keep up. Additionally, regulatory shifts towards digital payments further drive the need for adoption in certain industries (Kandpal & Mehrotra, 2019).

IV. PERCEIVED BENEFITS OF ADOPTING DIGITAL PAYMENT TECHNOLOGIES

The adoption of new payment technologies offers SMEs a variety of benefits, ranging from enhanced operational efficiency to improved customer satisfaction. These advantages provide a strong incentive for SMEs to integrate digital payment systems into their business operations.

4.1 Enhanced Operational Efficiency

One of the most compelling reasons for SMEs to adopt new payment technologies is the potential for increased efficiency. Digital payment systems streamline transaction processes, reduce transaction times, and decrease the likelihood of errors, which collectively lead to improved operational performance. By reducing reliance on traditional cash or card payment methods, SMEs can increase throughput, serving more customers and driving higher revenues in less time (Sharma & Singh, 2019).

4.2 Improved Security and Trust

Security remains a top concern for SMEs when transitioning to digital payment systems. However, modern payment technologies offer enhanced security features such as encryption, two-factor authentication (2FA), and secure payment gateways, which significantly reduce the risk of fraud and data breaches. These advanced security measures not only protect both businesses and consumers but also foster trust, which is essential for customer retention (Dube et al., 2021).

4.3 Improved Customer Experience

Digital payment technologies also enhance the customer experience. Payment solutions such as mobile wallets, contactless payments, and online payment systems offer customers convenience, speed, and flexibility. By catering to the preferences of tech-savvy customers, SMEs can increase customer satisfaction and loyalty. Additionally, digital payment systems facilitate

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cross-border transactions, enabling SMEs to reach international markets more easily and without the need for complex currency conversions (Liu & Li, 2020).

V. CHALLENGES IN ADOPTING DIGITAL PAYMENT TECHNOLOGIES

While the benefits of digital payment technologies are clear, several challenges prevent SMEs from fully embracing these solutions. These challenges range from financial constraints to concerns about security and system integration.

5.1 Financial Constraints and Implementation Costs

The high initial costs associated with implementing digital payment systems, including hardware, software, and integration services, remain a major barrier for SMEs. These upfront costs can be prohibitive, especially for smaller businesses with limited capital. Additionally, many payment processors charge recurring fees, further adding to the financial burden on SMEs (Srinivasan et al., 2020).

5.2 Technical Complexity and Integration Challenges

SMEs often lack the in-house technical expertise required to implement new payment systems. For many small businesses, the process of integrating digital payment technologies into existing infrastructure can be complex and time-consuming. As a result, SMEs frequently rely on external vendors to manage the implementation, which can lead to additional costs and potential disruptions to operations (Tiwari & Buse, 2020).

5.3 Security Concerns

Despite the security advancements in digital payment technologies, many SMEs remain concerned about the safety of online transactions. High-profile incidents of cyberattacks and data breaches have heightened these concerns, leading to reluctance in adopting digital payment systems. SMEs are particularly vulnerable to cyber threats and often lack the resources to effectively safeguard against them (Kumar & Kaur, 2020).

5.4 Resistance to Change

The reluctance to embrace new technologies is often rooted in organizational inertia. SMEs that have long relied on traditional payment methods may resist the perceived disruption that comes with adopting digital solutions. Employees and management may fear the potential risks or challenges associated with the integration process, hindering the adoption of new systems (Tiwari & Buse, 2020).

VI. KEY FACTORS INFLUENCING THE ADOPTION OF DIGITAL PAYMENT TECHNOLOGIES

Several factors play a significant role in determining whether an SME adopts new payment technologies. These factors include the size and structure of the business, the industry in which it operates, the digital literacy of its employees, and external market forces.

6.1 Organizational Size and Structure

Larger SMEs, with more formalized structures and greater financial resources, are better equipped to implement new payment technologies. These organizations typically have access to the capital and expertise needed to integrate advanced payment systems into their operations smoothly. In contrast, smaller businesses often face challenges in allocating resources for technology investments (Liu & Xu, 2018).

6.2 Industry-Specific Factors

Industries with a strong customer focus, such as retail, hospitality, and financial services, are more likely to embrace digital payment technologies. These industries benefit directly from the enhanced customer experience and operational efficiency that

digital payments provide. On the other hand, industries with less direct interaction with consumers, such as agriculture or manufacturing, may be slower to adopt new payment methods (Bucharest et al., 2020).

6.3 Digital Literacy and Training

The level of digital literacy within an organization is a critical factor influencing the adoption of digital payment technologies. SMEs with employees who possess strong digital skills are more likely to integrate new systems successfully. Conversely, SMEs with limited digital expertise may face difficulties in implementing and utilizing digital payment technologies effectively (Nguyen et al., 2020).

6.4 External Market Pressures

The increasing demand for digital payment options from consumers and the growing competition in many industries drive SMEs to adopt these technologies. Additionally, regulatory changes and the need for businesses to comply with new digital payment standards further push SMEs toward adopting digital payment solutions (Vasiljeva & Lukanova, 2016).

VII. CONCLUSION

The adoption of new payment technologies offers significant opportunities for SMEs, including enhanced operational efficiency, improved customer experiences, and better security. However, SMEs face considerable challenges, including high initial costs, technical complexity, and security concerns, which hinder widespread adoption. A comprehensive understanding of the factors influencing adoption—such as business size, industry type, and external pressures—is essential for developing strategies to facilitate the digital transformation of SMEs. By fostering collaboration between SMEs, technology providers, and policymakers, stakeholders can help SMEs navigate these challenges and ensure that they remain competitive in the digital economy.

References

1. Made et al. (n.d.). The Impact of E-commerce, FinTech Transactions, and Human Resource Quality on the Competitive Spirit of Small and Medium Apparel Industries in Denpasar City of Bali.
2. Raj, P., & Upadhyay, A. (2020). FinTech and Financial Inclusion in India: A Synergistic Approach. *Journal of Financial Technology*, 2(3), 45-60.
3. Siddiqui, A., & Siddiqui, S. (2020). Telecommunication Services and Financial Inclusion in India: An Empirical Analysis. *Journal of Digital Banking*, 5(2), 111-126.
4. Hu, X., Zhang, Y., & Li, J. (2019). FinTech Adoption and User Perceptions: An Empirical Study. *International Journal of Bank Marketing*, 37(5), 1204-1222.
5. Kandpal, V., & Mehrotra, D. (2019). FinTech and Financial Inclusion: Challenges and Opportunities in India. *Journal of Emerging Technologies in Financial Services*, 10(4), 33-45.
6. Breidbach, C. F., Antons, D., & Salge, T. O. (2020). Researching FinTech and its Impact on the Future of Financial Services: An Introduction and Commentary. *Journal of Service Research*, 23(1), 5-12.
7. Ma, X., & Liu, Y. (2017). FinTech and Crowdfunding: A Study on the Trends and Development. *Journal of Financial Innovation*, 3(1), 14-24.
8. Vasiljeva, T., & Lukanova, E. (2016). Interaction of FinTech and Commercial Banks: A Comparative Study. *Journal of Banking and Financial Technology*, 2(2), 35-49.
9. Jones, P., & Tandon, A. (2018). Fintech and SMEs: Opportunities and Challenges. *International Journal of Financial Studies*, 6(4), 86.
10. Bianchi, M., & Mathews, S. (2019). The Impact of FinTech on Small Business Lending. *Journal of Financial and Quantitative Analysis*, 54(5), 2395-2418.
11. Lee, I., & Shin, Y. J. (2018). Fintech: Ecosystem, business models, investment decisions, and challenges. *Business Horizons*, 61(1), 35-46.
12. Arner, D. W., Barberis, J., & Buckley, R. P. (2016). The Evolution of FinTech: A New Post-Crisis Paradigm? *Georgetown Journal of International Law*, 47, 1271-1319.
13. Zavolokina, L., Dolata, M., & Schwabe, G. (2016). FinTech – What's in a Name? In *International Conference on Design Science Research in Information Systems and Technology* (pp. 287-305).
14. Gomber, P., Koch, J. A., & Siering, M. (2017). Digital Finance and FinTech: current research and future research directions. *Journal of Business Economics*, 87(5), 537-580.
15. Morgan, P. J., & Trinh, L. Q. (2019). The Impact of E-Payment Systems on Financial Inclusion in Vietnam and the Philippines. *Asian Development*

Bank Institute Working Paper, 931.

16. Ozili, P. K. (2018). Impact of digital finance on financial inclusion and stability. *Borsa Istanbul Review*, 18(4), 329-340.
17. Nguyen, C., & Nguyen, T. (2020). The Impact of Digital Finance on Financial Inclusion in Vietnam. *Journal of Asian Finance, Economics and Business*, 7(5), 303-310.
18. Arora, R., & Kumar, V. (2021). Digital transformation in financial services: An analysis of the impact of FinTech on traditional banking in India. *Journal of Financial Technology*, 5(2), 101-115. <https://doi.org/10.1016/j.jfintech.2021.05.001>
19. Arora, S., & Soni, N. (2021). Role of digital platforms in improving financial literacy and inclusion in India. *Indian Journal of Financial Services*, 12(3), 45-59. <https://doi.org/10.1016/j.indjfs.2021.06.004>
20. Bose, S., & Roy, S. (2020). Role of FinTech in improving access to finance for rural women entrepreneurs in India. *Journal of Rural Business*, 18(4), 389-405. <https://doi.org/10.1111/jrb.12256>
21. Breidbach, C. F., Brodie, R. J., & Hollebeek, L. D. (2020). The role of FinTech in the digital transformation of financial services systems. *Journal of Services Marketing*, 34(4), 527-538. <https://doi.org/10.1108/JSM-02-2019-0146>
22. Bucharest, M., Harrell, M., & Chen, L. (2020). The adoption of FinTech by Gen Z: How younger consumers in the U.S. are shaping the future of financial services. *Financial Services Review*, 29(3), 311-330. <https://doi.org/10.1016/j.fsr.2020.05.001>
23. Chaudhary, S., Kumar, M., & Singh, P. (2021). Role of FinTech in driving financial inclusion in rural India. *Journal of Rural Economics*, 19(2), 178-189. <https://doi.org/10.1108/JRE-02-2021-0174>
24. Chong, A. Y. L., Chan, F. T. S., & Ooi, K. B. (2019). Exploring the use of AI in enhancing customer service and fraud detection in financial institutions. *Journal of Financial Services Technology*, 8(1), 73-89. <https://doi.org/10.1016/j.fintec.2019.01.004>
25. Diniz, E. H., Birochi, R., & Pimentel, M. (2020). The impact of mobile financial services on underserved populations in Latin America. *Journal of Mobile Technology in Financial Services*, 3(1), 21-39. <https://doi.org/10.1016/j.jmtfs.2020.02.003>
26. Dube, K., Akinbo, O., & Dube, A. (2021). Adoption of FinTech services in small businesses in emerging economies. *International Journal of Emerging Markets*, 16(4), 564-586. <https://doi.org/10.1108/IJoEM-06-2020-0382>
27. El-Den, R., Ashraf, N., & Shah, S. (2020). Financial technology adoption in the MENA region: A case study on small businesses. *MENA Business Review*, 25(2), 45-59. <https://doi.org/10.1108/MENA-04-2020-0245>
28. Gonzalez, M., Morales, F., & Rodrigues, S. (2019). FinTech and the transformation of banking services in Latin America. *Latin American Business Review*, 18(3), 243-259. <https://doi.org/10.1016/j.labr.2019.04.003>
29. Hu, H., Zhang, X., & Li, P. (2019). The adoption of FinTech services: An extended technology acceptance model (TAM) approach. *Journal of Financial Technology*, 5(3), 211-225. <https://doi.org/10.1016/j.jfintech.2019.02.004>
30. Jagtiani, J., & Lemieux, C. (2019). The role of artificial intelligence in financial services. *Financial Review*, 54(1), 45-62. <https://doi.org/10.1111/j.1540-6288.2019.00456.x>
31. Kandpal, S., & Mehrotra, S. (2019). Influence of FinTech and digital financial services on financial inclusion in India. *Indian Financial Journal*, 33(2), 121-136. <https://doi.org/10.1016/j.ifj.2019.06.001>
32. Krause, M., & Tullius, R. (2020). Regulatory challenges in the FinTech industry in the EU and its effect on innovation. *European Journal of Financial Regulation*, 4(1), 49-67. <https://doi.org/10.1108/EJFR-01-2020-0043>
33. Kumar, A., & Kaur, R. (2020). The impact of FinTech on customer experience in India's banking sector. *Journal of Digital Finance*, 2(1), 30-42. <https://doi.org/10.1016/j.jdf.2020.05.002>
34. Liu, X., & Li, H. (2020). The influence of blockchain on payment systems and its role in financial inclusion. *Blockchain Technology Review*, 4(2), 140-155. <https://doi.org/10.1016/j.btr.2020.03.003>
35. Liu, Z., & Xu, X. (2018). Examining the role of mobile payments in financial inclusion among SMEs in China. *Small Business Economics Journal*, 35(3), 311-326. <https://doi.org/10.1007/s11301-018-0154-7>
36. Ma, C., & Liu, H. (2017). Analysis of patterns between FinTech and crowdfunding: Evidence from 2004-2017. *Journal of Crowdfunding Research*, 7(2), 29-45. <https://doi.org/10.1016/j.jcr.2017.05.005>
37. Nguyen, T. T., Phan, T. L., & Doan, M. D. (2020). Impact of Big Data and AI on lending practices in FinTech. *Journal of Big Data in Finance*, 9(1), 123-140. <https://doi.org/10.1016/j.jbdf.2020.04.002>
38. Raj, R., & Upadhyay, A. (2020). Impact of financial technology (FinTech) on the promotion of financial inclusion in India. *Financial Inclusion Review*, 3(2), 45-59. <https://doi.org/10.1016/j.fir.2020.02.001>
39. Raza, A., Ali, M., & Nadeem, S. (2020). FinTech adoption among small and medium enterprises (SMEs) in developing economies. *International Journal of Financial Technology*, 2(4), 210-225. <https://doi.org/10.1016/j.ijftc.2020.07.003>
40. Sharma, R., & Singh, A. (2019). Impact of digital financial services on the growth of micro-businesses in India. *Asian Journal of Business Research*, 4(2), 102-118. <https://doi.org/10.1016/j.ajbr.2019.05.004>
41. Siddiqui, A., & Siddiqui, S. (2020). Impact of telecommunications on financial inclusion in India. *Indian Journal of Telecommunication and Financial Inclusion*, 1(2), 30-45. <https://doi.org/10.1016/j.ijtf.2020.07.001>

A Monthly Double-Blind Peer Reviewed Refereed Open Access Multidisciplinary & Multilingual International Journal

42. Srinivasan, S., Rajendran, P., & Kumar, M. (2020). Factors influencing the adoption of digital payments in India. *Journal of Financial Services Innovation*, 6(1), 25-41. <https://doi.org/10.1016/j.jfsi.2020.06.002>
43. Tiwari, M., & Buse, S. (2020). Challenges in the adoption of FinTech in the Indian banking sector. *International Journal of FinTech Research*, 8(3), 201-216. <https://doi.org/10.1016/j.ijftr.2020.07.001>
44. Vasiljeva, A., & Lukanova, S. (2016). A comparative study of services offered by FinTech companies and conventional banks. *Journal of Financial Technology*, 4(2), 121-138. <https://doi.org/10.1016/j.jfintec.2016.07.001>
45. Wong, A. W., Chan, M. Y., & Tan, H. W. (2021). Blockchain technology and its effect on financial inclusion in ASEAN countries. *Journal of ASEAN Finance*, 8(4), 256-271. <https://doi.org/10.1016/j.aseanfin.2021.04.003>
46. Zhang, Z., Li, J., & Liu, W. (2020). Blockchain technology in transforming financial services: Impact on payments and identity verification. *Blockchain Applications*, 3(1), 72-85. <https://doi.org/10.1016/j.bca.2020.01.004>
47. Breidbach, C. F., Brodie, R. J., & Hollebeek, L. D. (2020). The role of FinTech in the digital transformation of financial services systems. *Journal of Services Marketing*, 34(4), 527-538. <https://doi.org/10.1108/JSM-02-2019-0146>
48. Bucharest, M., Harrell, M., & Chen, L. (2020). The adoption of FinTech by Gen Z: How younger consumers in the U.S. are shaping the future of financial services. *Financial Services Review*, 29(3), 311-330. <https://doi.org/10.1016/j.fsr.2020.05.001>
49. Dube, K., Akinbo, O., & Dube, A. (2021). Adoption of FinTech services in small businesses in emerging economies. *International Journal of Emerging Markets*, 16(4), 564-586. <https://doi.org/10.1108/IJoEM-06-2020-0382>
50. Kandpal, S., & Mehrotra, S. (2019). Influence of FinTech and digital financial services on financial inclusion in India. *Indian Financial Journal*, 33(4), 167-184.
51. Kumar, A., & Kaur, S. (2020). Navigating security risks in the digital payments landscape. *Cybersecurity Review*, 9(2), 202-214.
52. Liu, Q., & Li, Y. (2020). Digital payment systems: Adoption patterns and market implications for SMEs. *Journal of Retail Innovation*, 25(5), 241-258.
53. Tiwari, M., & Buse, S. (2020). Organizational resistance and change in the digital payment adoption process. *Journal of Business Strategy*, 41(3), 33-44.

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