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The Role of Fintech Innovation in Financial Inclusion: A Literature Review of Emerging Tren and Challenges

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Abstrak

Inovasi fintech berkembang pesat dalam beberapa tahun terakhir, menawarkan solusi keuangan yang lebih mudah diakses dan terjangkau bagi masyarakat luas. Hal ini membuka peluang untuk meningkatkan inklusi keuangan, terutama bagi mereka yang sebelumnya tidak memiliki akses ke layanan keuangan tradisional. Penelitian ini bertujuan untuk menganalisis peran inovasi fintech dalam meningkatkan inklusi keuangan. Penelitian ini menggunakan metode kualitatif dengan studi literatur dan analisis data sekunder. Data dikumpulkan dari berbagai sumber, seperti jurnal ilmiah, laporan penelitian, dan publikasi resmi dari lembaga terkait. Hasil Penelitian ini menyimpulkan bahwa bahwa fintech telah memainkan peran yang signifikan dalam memperluas akses terhadap layanan keuangan di seluruh dunia. Melalui penerapan teknologi terkini, fintech telah berhasil mengatasi beberapa hambatan tradisional dalam akses keuangan, seperti biaya tinggi dan keterbatasan infrastruktur. Meskipun demikian, tantangan yang signifikan masih ada, termasuk masalah regulasi yang bervariasi di berbagai negara, keamanan dan privasi data, serta kesenjangan akses teknologi di wilayah-wilayah terpencil.

Kata Kunci: *Inovasi Fintech, Inklusi Keuangan, Layanan Keuangan Digital, Lingkungan Regulasi*

Abstract

Fintech innovations have grown rapidly in recent years, offering more accessible and affordable financial solutions to the general public. This opens up opportunities to increase financial inclusion, especially for those who previously did not have access to traditional financial services. This research aims to analyse the role of fintech innovation in improving financial inclusion. This research uses a qualitative method with literature study and secondary data analysis. Data was collected from various sources, such as scientific journals, research reports, and official publications from relevant institutions. This study concludes that fintech has played a significant role in expanding access to financial services around the world. Through the application of advanced technology, fintech has successfully overcome some of the traditional barriers to financial access, such as high costs and limited infrastructure. However, significant challenges remain, including regulatory issues that vary across countries, data security and privacy, and technology access gaps in remote areas.

Keywords: Fintech Innovation, Financial Inclusion, Digital Financial Services, Regulatory Environment

INTRODUCTION

The financial services industry underwent a major transformation in recent years. This is driven by technological advances and the emergence of various fintech innovations (Kandpal & Mehrotra, 2019). Digital technologies such as mobile banking, artificial intelligence, and blockchain have changed the way banks and other financial institutions operate (Rauniyar et al., 2021; Senyo & Osabutey, 2020). Fintech innovations such as peer-to-peer lending, robo-advisors, and digital payments have provided new alternatives for consumers and opened up financial access for people who previously did not have access.

This transformation brings many benefits to consumers and the financial industry. Consumers now have more choice and access to more accessible and affordable financial services (Hollanders & Marc, 2020). Fintech offers innovative solutions that can help consumers better manage their finances, such as budgeting tools, robo-advisors, and personalized financial planning (Kandpal & Mehrotra, 2019; Raj & Upadhyay, 2020). The financial industry also benefits from efficiencies generated by technology and fintech, such as reduced costs, improved customer service, and increased opportunities for growth. The financial industry also benefits from efficiencies generated by technology and fintech (Appiah & Adjei, 2021). Operating costs are lower, customer service is getting better, and opportunities for growth are opening up. In the future, we can expect the financial services industry to continue to evolve and innovate, providing better and more personalized services to consumers.

Financial inclusion stands as a paramount concern for policymakers, regulators, and financial institutions globally, owing to its profound implications for economic growth,

poverty alleviation, and societal advancement (Kurniasari et al., 2021). By facilitating access to financial services for marginalized and underserved populations, financial inclusion not only fosters economic empowerment but also cultivates a more inclusive and equitable society. Through initiatives aimed at expanding access to banking, credit, insurance, and other essential financial services, nations can unlock the potential of individuals and businesses, thereby stimulating economic activity and reducing income disparities (Chinoda & Mashamba, 2021). Moreover, fostering financial inclusion aligns with broader development goals, such as poverty reduction and social welfare enhancement, by providing individuals with the tools necessary to build assets, manage risks, and seize opportunities for socioeconomic advancement. Thus, prioritizing efforts to enhance financial inclusion represents a strategic imperative for fostering sustainable economic development and inclusive growth on a global scale (Kanga et al., 2022).

This study represents a crucial endeavor in bridging existing knowledge gaps surrounding the impact of fintech innovations on financial inclusion. By delving into the intricate dynamics between fintech and financial inclusion, the research endeavors to shed light on how technological advancements can serve as catalysts for expanding access to financial services, particularly among underserved populations (Goswami et al., 2022). Through meticulous analysis and empirical investigation, the study seeks to uncover the mechanisms through which fintech innovations facilitate greater financial inclusion, thus providing valuable insights for policymakers, regulators, and financial institutions.

Furthermore, the research aims to identify and elucidate the critical factors that underpin the success of fintech innovations in advancing financial inclusion initiatives. By scrutinizing various case studies and empirical data, the study intends to delineate the regulatory, technological, and socio-economic factors that play pivotal roles in shaping the effectiveness and scalability of fintech-driven financial inclusion efforts (Danladi et al., 2023). By understanding these determinants of success, stakeholders can devise informed strategies and interventions to leverage fintech innovations optimally for promoting inclusive financial ecosystems that benefit individuals and communities worldwide. Based on this, the aim of this study is to examine the role of fintech innovations in driving financial inclusion, and to identify the key factors that contribute to their success.

RESEARCH METHOD

This study employs a systematic review of the literature as its research design, aiming to provide a comprehensive understanding of the role of fintech innovation in promoting financial inclusion. Through a meticulous and structured approach to reviewing both

published and unpublished literature, the research seeks to synthesize existing knowledge and identify key themes and insights relevant to the intersection of fintech and financial inclusion. By systematically searching and analyzing a diverse array of sources, including scholarly articles, reports, and case studies, the study aims to capture a nuanced portrayal of the evolving landscape of fintech-driven financial inclusion initiatives.

Through the application of predefined inclusion criteria, which focus specifically on articles and studies addressing the role of fintech innovation in financial inclusion, the study aims to maintain methodological rigor and relevance. Moreover, by delineating clear exclusion criteria, the research endeavors to uphold the study's focus and coherence, thereby enhancing the reliability and validity of its findings. Through this methodological approach, the study seeks to contribute valuable insights to the burgeoning discourse surrounding fintech's transformative potential in fostering greater financial inclusion globally.

RESULT AND DISCUSSION

Analysis of Fintech's Role in Improving Access to Financial Services

Analysis of the role of fintech in improving access to financial services is an increasingly relevant topic in the context of globalization and the development of information technology. Fintech, short for financial technology, refers to the use of technology to provide innovative and efficient financial solutions, changing the financial services landscape significantly. One of fintech's key contributions is in expanding access to financial services for individuals and businesses previously underserved by traditional financial institutions (Gomber et al., 2018). Through digital platforms and mobile applications, fintech provides easy access to services such as banking, payments, loans, and investments, even for those who are in remote areas or have limited physical access.

In addition to expanding geographic reach, fintech's role in improving access to financial services is also reflected in its ability to tailor products and services to the specific needs of different segments of society (Legowo et al., 2020). With technologies such as machine learning and big data analytics, fintechs can better understand financial behavior and consumer preferences, resulting in more relevant and affordable products for those previously ignored by traditional financial institutions. However, despite providing many benefits, fintech's role in improving access to financial services also poses some challenges (Saksonova & Merlino, 2017). One is the digital divide, where individuals or communities that lack access to or sufficient technology skills may be left behind from the benefits of

fintech. In addition, the role of fintech also raises questions related to data privacy and security, especially given the sensitivity of the financial information handled.

The importance of understanding fintech's role in improving access to financial services is also reinforced by its impact on overall financial inclusion. Financial inclusion is not just about increasing the number of individuals who have bank accounts or access to credit cards, but also about ensuring that they can access, use, and understand financial services effectively (Lagna & Ravishankar, 2022). Therefore, in analyzing the role of fintech, it is important to consider not only quantitative aspects such as market penetration, but also qualitative aspects such as financial literacy and access fairness. Thus, analysis of fintech's role in improving access to financial services becomes important in the context of efforts to build an inclusive and sustainable financial system (Badruddin, 2017). By understanding the challenges, opportunities, and implications associated with fintech's role, stakeholders can develop more effective strategies and policies to comprehensively achieve financial inclusion goals.

The Impact of Fintech on Various Groups of Society

One of the main impacts of fintech is its ability to stretch financial services networks to groups of people who were previously difficult to reach by traditional financial institutions. Individuals or communities in remote or rural areas who do not have access to physical banks can now avail financial services through fintech platforms that can be accessed via mobile devices (Mirchandani et al., 2020). However, this positive impact is not always evenly distributed across all groups of society. While fintech may improve access to financial services for some, groups with limited access to technology or financial literacy may remain behind. This creates the risk of a digital divide and financial access gap that needs to be addressed and addressed.

In addition, fintech also has a significant impact on groups of society previously ignored by traditional financial institutions, such as informal workers, small entrepreneurs, and individuals with limited credit. Through services such as microloans or peer-to-peer lending, fintech can provide access to capital for those who were previously difficult to obtain, thus supporting local economic growth and economic empowerment (Suryono et al., 2020). However, while fintech can provide easier and faster access to financial services, it can also carry risks for less protected consumers. For example, irresponsible online lending practices can result in heavy debt buildup for vulnerable individuals. Therefore, it is important to pay attention to adequate consumer protection and regulation in developing the fintech industry.

In addition, fintech can also have a significant impact on financial inclusion and economic progress in the context of developing countries (Giglio, 2021). In countries with limited financial infrastructure, fintech can be a key driver in improving access to financial services, providing access to banking, digital payments, and insurance to millions of previously underserved people (Loo, 2019). However, in analyzing the impact of fintech on different groups of society, it is important to consider diverse perspectives and not ignore the potential risks and challenges that may arise. Thus, efforts to understand and address the impact of fintech on various groups of society need to be a major focus in policy and regulatory development at the local, national, and international levels.

Factors Contributing to Fintech's Success and Failure in Driving Financial Inclusion

The factors that contribute to fintech's success and failure in driving financial inclusion have a significant impact on how the industry develops. First of all, it's important to understand that fintech's success in achieving financial inclusion often hinges on its ability to provide accessible and affordable services to communities previously underserved by the formal financial system (Alt et al., 2018). A key factor in this regard is technological innovation that allows fintechs to offer more efficient and cost-effective solutions, such as digital banking applications that can be accessed via mobile phones.

Furthermore, appropriate regulation also plays an important role in determining the success of fintech in driving financial inclusion. Overly restrictive regulation can be an obstacle to the growth of the industry, while overly lax regulation may increase risks for consumers. Therefore, it is important for governments and regulators to develop a balanced framework that fosters fintech innovation and growth while protecting consumer interests (Mention, 2019). In addition, another factor that can affect the success or failure of fintech is the availability of the necessary infrastructure, such as fast and stable internet access. In less developed or remote areas, poor infrastructure can be a major barrier to financial technology adoption. Therefore, investment in digital infrastructure and increased internet access can play a key role in increasing financial inclusion through fintech (Normah et al., 2022).

No less important is consumer trust in fintech platforms. Data security and privacy are major concerns for many individuals considering using fintech services (Normah et al., 2022). Therefore, fintechs that succeed in driving financial inclusion tend to have a good reputation for maintaining the security and privacy of their users' data. In addition, cooperation with traditional financial institutions can also influence the success of fintech in encouraging financial inclusion. Through partnerships with banks and other financial institutions, fintechs

can expand their range of services and increase accessibility for previously underserved consumers. External factors such as economic and social conditions can also influence Fintech's success in driving financial inclusion. Changes in unemployment rates, poverty rates, or political stability can affect an individual's ability to access and use financial services, which in turn will affect fintech performance (Takeda & Ito, 2021). Therefore, it is important for fintechs to understand the context in which they operate and adapt their strategies according to those external factors.

CONCLUSION

From the research it can be concluded that fintech has played a significant role in expanding access to financial services around the world. Through the application of the latest technology, fintech has managed to overcome some traditional barriers in financial access, such as high costs and infrastructure limitations. Despite this, significant challenges remain, including regulatory issues that vary across countries, data security and privacy, and technology access gaps in remote areas. Therefore, joint efforts between governments, financial institutions, and industry players are key in ensuring that fintech innovation continues to drive financial inclusion effectively and sustainably. With a deep understanding of existing trends and challenges, as well as a commitment to overcoming these constraints, fintech has great potential to continue to be a positive force in achieving broader and equitable financial inclusion around the world.

REFERENCES

- AAlt, R., Beck, R., & Smits, M. T. (2018). FinTech and the transformation of the financial industry. *Electronic Markets*, 28(3), 235–243. <https://doi.org/10.1007/s12525-018-0310-9>
- Badruddin, A. (2017). Conceptualization of the effectiveness of Fintech in financial inclusion. *International Journal of Enginnering Technology Science and Research*, 4(7), pp.959-965.
- Broto Legowo, M., Subanija, S., & Sorongan, F. A. (2020). Role of FinTech mechanism to technological innovation : A conceptual framework. *International Journal of Innovative Science and Research Technology*, 5(5), 1–6. www.ijisrt.com
- Chinoda, T., & Mashamba, T. (2021). Fintech, financial inclusion and income inequality nexus in Africa. *Cogent Economics and Finance*, 9(1). <https://doi.org/10.1080/23322039.2021.1986926>
- Danladi, S., Prasad, M. S. V., Modibbo, U. M., Ahmadi, S. A., & Ghasemi, P. (2023). Attaining

Sustainable Development Goals through Financial Inclusion: Exploring Collaborative Approaches to Fintech Adoption in Developing Economies. *Sustainability (Switzerland)*, 15(17), 1–14. <https://doi.org/10.3390/su151713039>

Giglio, F. (2021). Fintech: A Literature Review. *International Business Research*, 15(1), 80. <https://doi.org/10.5539/ibr.v15n1p80>

Gomber, P., Kauffman, R. J., Parker, C., & Weber, B. W. (2018). On the Fintech Revolution: Interpreting the Forces of Innovation, Disruption, and Transformation in Financial Services. *Journal of Management Information Systems*, 35(1), 220–265. <https://doi.org/10.1080/07421222.2018.1440766>

Goswami, S., Sharma, R. B., & Chouhan, V. (2022). Impact of Financial Technology (Fintech) on Financial Inclusion(FI) in Rural India. *Universal Journal of Accounting and Finance*, 10(2), 483–497. <https://doi.org/10.13189/ujaf.2022.100213>

Hollanders, M., & Marc, M. H. (2020). Practice papers FinTech and financial inclusion: Opportunities and challenges Former Special Adviser on Financial Infrastructure, Bank for International Settlements, Switzerland. *Journal of Payments Strategy & Systems*, 14(4), 315–325. <https://www.bis.org/cpmi/publ/d144.htm>

Kandpal, V., & Mehrotra, R. (2019). Financial inclusion: The role of fintech and digital financial services in India. *Indian Journal of Economics and Business*, 18(1), 95–104.

Kanga, D., Oughton, C., Harris, L., & Murinde, V. (2022). The diffusion of fintech, financial inclusion and income per capita. *European Journal of Finance*, 28(1), 108–136. <https://doi.org/10.1080/1351847X.2021.1945646>

Kurniasari, F., Gunardi, A., Putri, F. P., & Firmansyah, A. (2021). The role of financial technology to increase financial inclusion in Indonesia. *International Journal of Data and Network Science*, 5(3), 391–400. <https://doi.org/10.5267/j.ijdns.2021.5.004>

Lagna, A., & Ravishankar, M. N. (2022). Making the world a better place with fintech research. *Information Systems Journal*, 32(1), 61–102. <https://doi.org/10.1111/isj.12333>

Loo, M. K. L. (2019). Enhancing Financial Inclusion in ASEAN: Identifying the Best Growth Markets for Fintech. *Journal of Risk and Financial Management*, 12(4). <https://doi.org/10.3390/jrfm12040181>

Mention, A. L. (2019). The Future of Fintech. *Research Technology Management*, 62(4), 59–63. <https://doi.org/10.1080/08956308.2019.1613123>

Mirchandani, A., Gupta, N., & Ndiweni, E. (2020). Understanding the Fintech Wave: a Search for a Theoretical Explanation. *International Journal of Economics and Financial Issues*, 10(5), 331–343. <https://doi.org/10.32479/ijefi.10296>

Normah, Rifai, B., Vambudi, S., & Maulana, R. (2022). Sentiment Analysis of VTuber

- Development with SMOTE-Based Support Vector Machine Method. *Journal of Computer Engineering AMIK BSI*, 8(2), 174–180. <https://doi.org/10.31294/jtk.v4i2>
- Odei-appiah, S., & Adjei, J. (2021). *Digital Commons @ Kennesaw State University Fintech Use , Digital Divide and Financial Inclusion Fintech Use , Digital Divide and Financial Inclusion*. 0–12.
- Rauniyar, K., Manager, B., Bank Limited Kathmandu, N., Komal Rauniyar, N., & Kumar Sah, D. (2021). Role of FinTech and Innovations for Improvising Digital Financial Inclusion. *International Journal of Innovative Science and Research Technology*, 6(5), 6. <https://ijisrt.com/assets/upload/files/IJISRT21MAY1089.pdf%0Awww.ijisrt.com>
- Saksonova, S., & Kuzmina-Merlino, I. (2017). Fintech as financial innovation - The possibilities and problems of implementation. *European Research Studies Journal*, 20(3), 961–973. <https://doi.org/10.35808/ersj/757>
- Senyo, P. K., & Osabutey, E. L. C. (2020). Unearthing antecedents to financial inclusion through FinTech innovations. *Technovation*, 98, 1–39. <https://doi.org/10.1016/j.technovation.2020.102155>
- Suryono, R. R., Budi, I., & Purwandari, B. (2020). Challenges and trends of financial technology (Fintech): A systematic literature review. *Information (Switzerland)*, 11(12), 1–20. <https://doi.org/10.3390/info11120590>
- Takeda, A., & Ito, Y. (2021). A review of FinTech research. *International Journal of Technology Management*, 86(1), 67–88. <https://doi.org/10.1504/IJTM.2021.115761>
- Upadhyay, B. R. & V. (2020). Role of FinTech in Accelerating Financial Inclusion in India Brij Raj 1 & Varun Upadhyay 2 Paper presented at the 3. *SSRN Electronic Journal*, 1–28.