

# The Impact of Fintech on Financial Inclusion

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***Abstract- This paper explores the transformative role of fintech in expanding financial access to underserved populations in the United States. It examines the impact of fintech innovations on key financial inclusion metrics, such as account ownership, credit access, and digital payments. Fintech companies like Chime have contributed to a measurable increase in new bank accounts, significantly enhancing financial inclusion efforts. SoFi has also greatly expanded credit access, particularly among younger consumers, by using technology to offer competitive loan products. Through case studies and quantitative analysis, this paper details these successes while also addressing the challenges and opportunities faced by financial institutions in integrating fintech solutions. The analysis emphasizes the need for supportive regulatory frameworks and technological advancements to fully realize the potential of fintech in promoting financial inclusion. The paper concludes with recommendations for policymakers, financial institutions, and fintech companies to utilize technology further to ensure equitable access to financial services.***

***Indexed Terms- Fintech, Financial Inclusion, Account Ownership, Credit Access, Digital Payments, United States, Regulatory Challenges, Financial Institutions, Technological Innovation, Underserved Populations***

## I. INTRODUCTION

Financial inclusion refers to ensuring that individuals and businesses have access to affordable and appropriate financial products and services such as payments, savings, credit, and insurance, that meet their needs and are delivered responsibly. Financial inclusion is essential for economic development because it enables people to build assets, invest in education, and manage financial risks, ultimately leading to improved standards of living and reduced poverty. According to the Federal Deposit Insurance

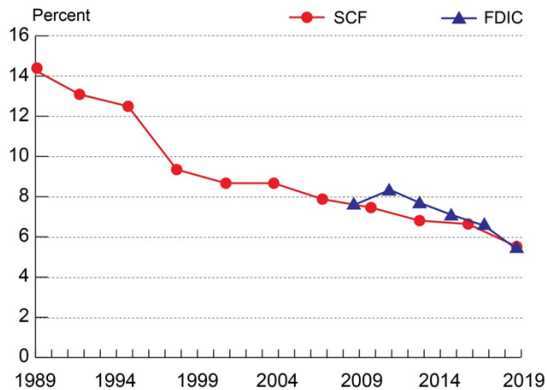
Corporation's (FDIC) 2019 report, approximately 5.4% of U.S. adults remain unbanked, meaning they lack a checking or savings account. This translates to roughly 7.1 million individuals.

The significant number of unbanked adults in the United States highlights a concerning gap in financial inclusion. This lack of access to formal banking services can have far-reaching implications for individuals and the broader economy.

Unbanked individuals are often forced to rely on high-cost alternatives like payday loans and check cashing services, which can trap them in a cycle of debt and financial instability. This can limit their ability to save for emergencies, invest in education or housing, and participate fully in the economy. Moreover, being unbanked can make obtaining loans, securing employment, and establishing a credit history difficult, further hindering financial progress. While there has been progress in reducing the number of unbanked individuals in the United States, the issue remains a significant challenge. In 2021, the Federal Deposit Insurance Corporation (FDIC) reported that approximately 5.9 million households were unbanked, meaning no one in the household had a checking or savings account. This represents a decline from 7.1 million households in 2019, but it still indicates a substantial portion of the population lacking access to formal banking services.

*This 2020 survey by the FDIC provides a clear perspective on the percentage of unbanked households annually from 1989 to 2019*

Figure 1: Household Unbanked Rate in the United States by Year



Source: FDIC (2020) and Survey of Consumer Finances (SCF)

From a macroeconomic perspective, the prevalence of unbanked individuals can impede economic growth and development. When a large segment of the population is excluded from the formal financial system, it can reduce consumer spending, limit access to credit for businesses, and hinder the efficient allocation of capital. This can ultimately lead to slower economic growth and increased economic inequality. Addressing the issue of financial inclusion requires a multifaceted approach, involving collaboration between governments, financial institutions, and community organizations. Efforts to promote financial literacy, expand access to affordable banking services, and provide support to underserved populations are crucial for bridging the financial inclusion gap and ensuring that all individuals have the opportunity to participate fully in the economy.

Financial inclusion is an important issue, particularly for underserved communities such as low-income households, minorities, and rural populations, who often face barriers to accessing traditional financial services (Demirgüç-Kunt et al., 2018; Federal Reserve, 2022). Financial inclusion is a cornerstone of sustainable development, recognized as a key enabler for achieving seven of the United Nations' 17 Sustainable Development Goals. To bridge the significant financial gaps that persist, governments, financial institutions, and individuals have actively sought innovative solutions. One such breakthrough has been the emergence of fintech solutions, which

have revolutionized the way people access and manage financial services.

Fintech, short for financial technology, has revolutionized the financial services industry by introducing innovative and accessible solutions that disrupt traditional banking models. Fintech companies introduce digital technologies such as mobile platforms, blockchain, artificial intelligence, and big data to offer a wide range of financial services, including mobile banking, peer-to-peer lending, digital payments, and larger advisory services. In 2022, U.S. fintech investment reached approximately \$65 billion, reflecting the growing demand for more convenient and inclusive financial solutions (Arner et al., 2016; Gomber et al., 2017). The rapid growth of fintech has been fueled by the increasing demand for more convenient, user-friendly, and inclusive financial services, especially among populations that have been historically underserved by conventional financial institutions (Schindler, 2017).

This article aims to evaluate the role of fintech in enhancing financial inclusion in the U.S. by analyzing how technological innovations have expanded access to financial services, particularly for those who were previously excluded. It will also explore the challenges and limitations of fintech in achieving comprehensive financial inclusion and discuss the potential for further innovation to address these gaps.

## II. LITERATURE REVIEW

Financial inclusion is considered to promote economic growth and poverty reduction, as it empowers people by allowing them to save, invest, and protect themselves against economic shocks. Globally, about 1.4 billion adults remain unbanked, with a large portion residing in developing economies (Demirgüç-Kunt et al., 2022). The global importance of financial inclusion lies in its potential to reduce poverty, promote economic growth, and improve financial stability.

Historically, several barriers have hindered financial inclusion, including geographic isolation, lack of financial literacy, high costs of services, migration, and stringent documentation requirements. Traditional financial institutions, such as banks, have often been

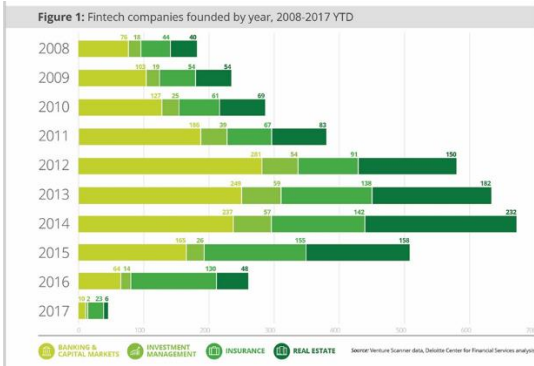
unable to reach rural and low-income populations due to the high costs associated with setting up physical branches in remote areas and the low profitability of serving these segments (Allen et al., 2016). Cultural norms and gender biases have traditionally limited women's access to financial services, especially in societies where financial decision-making is dominated by men. On a global scale, women are 7% less likely than men to hold a bank account, with this disparity being more pronounced in developing nations (Demirgüç-Kunt et al., 2022). These obstacles significantly contribute to financial exclusion, expressing economic disparities and restricting opportunities for women's empowerment. Cohen and Nelson 2021, took a cautious stance to explore the role of fintech in reducing income inequality through improved financial inclusion in the U.S stressing the importance of regulation and inclusive design to avoid deepening existing inequalities, offering a more critical perspective than those focusing solely on fintech's benefits. They argue that while fintech has the potential to bridge financial gaps, it also risks introducing inequality if not properly regulated. They call for targeted policies to ensure fintech solutions are accessible to marginalized groups. This is in close relation with the approach of Baradaran 2015, who also advocates for postal banking stand in contrast to the more technology-driven solutions proposed by other authors. Her focus is on institutional reform rather than innovation, offering a more systemic critique of financial exclusion in the U.S. Lusardi and Mitchell's 2017 study follows a different path that argues for financial literacy. They believe this is the major path needed to enhance financial inclusion arguing that without improved financial literacy, even access to financial services may not result in meaningful inclusion. Servon 2017 emphasizes the failure of the conventional banking system to meet the needs of many Americans. The author expresses the importance of understanding the lived experiences of unbanked and underbanked populations, suggesting that financial inclusion efforts must be more attentive to the needs and preferences of these groups.

### III. THE RISE OF FINTECH

Over the past decade, fintech has emerged as a disruptive force in the financial industry, offering innovative solutions that challenge traditional banking

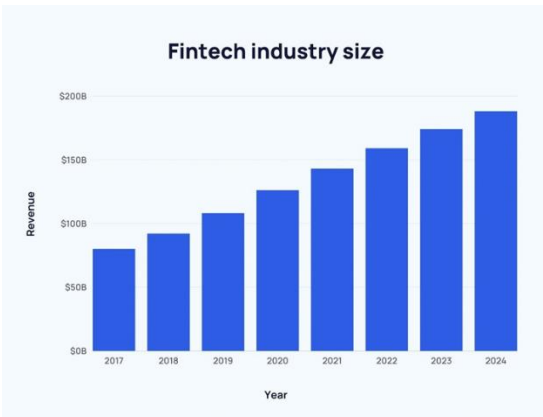
models. The evolution of fintech can be traced back to over a century ago even though it started to gain a lot of traction in the 21st century specifically to the financial crisis of 2008. The 2008 financial crisis led to a loss of trust in traditional financial institutions and spurred the growth of alternative financial services. The 2008 financial crisis marked a turning point in public trust in traditional financial institutions, which had engaged in risky and often unethical practices that ultimately led to the collapse of the housing bubble in the United States. Banks had been heavily involved in subprime lending, offering mortgages to individuals with poor credit histories, leading to widespread defaults when the bubble burst. The crisis exposed a lack of transparency and accountability within these institutions, shaking public confidence in their integrity. The failure of major banks like Lehman Brothers, coupled with the need for government bailouts of "too big to fail" institutions, further fueled public anger. Taxpayers were left to rescue the very banks that had contributed to the economic downturn, exacerbating the perception of corporate greed and mismanagement.

The economic impact of the crisis on individuals was profound, with many facing job losses, foreclosures, and the depletion of savings. This widespread financial hardship underscored the vulnerability of relying on traditional financial institutions, prompting people to seek alternatives that promised greater transparency, security, and alignment with their interests. The erosion of trust in traditional banks paved the way for the rapid growth of fintech and other alternative financial services. These new platforms offered innovative, user-friendly solutions that catered to a growing demand for more accessible and accountable financial management options. Advancements in technology further accelerated this shift, enabling the development and widespread adoption of fintech services that challenged the dominance of traditional banks.



Source: Deloitte, *Fintech by the numbers*

In 2024, the global fintech market was valued at approximately \$80.08 billion and is expected to continue growing as digital technologies become more integral to financial services (Statista, 2024). According to Deloitte, one of the largest professional services networks in the world, In 2017, the global fintech industry generated around \$90.5 billion in revenue. Since then, that amount has more than doubled.



Source: Deloitte

Fintech has been instrumental in advancing financial inclusion by providing access to financial services through digital platforms, reducing transaction costs, and offering personalized financial products. Mobile money services have reached over 1.75 billion accounts globally, with a significant impact in Sub-Saharan Africa, where mobile money accounts outnumber traditional bank accounts (GSMA, 2024). The literature on fintech's role in financial inclusion details its potential to reach underserved populations, particularly in emerging markets, by bypassing traditional barriers such as geographic isolation and

lack of infrastructure (Gomber, Koch, & Siering, 2017). Gomber, Koch, and Siering (2017) acknowledge fintech's role in enhancing inclusion but point out challenges like regulatory and cybersecurity issues. Ozili (2020) notes that while fintech has advanced financial inclusion, its impact is uneven, especially for rural and low-income populations.

• Gaps in the Literature

One of the primary gaps, despite a growing body of literature on the impact of fintech on financial inclusion, is the lack of comprehensive studies that quantify the impact of fintech on financial inclusion metrics, such as the number of new accounts opened, the increase in access to credit, and improvements in financial literacy (Ozili, 2020). There is limited research on the long-term sustainability of fintech solutions in promoting financial inclusion, particularly in low-income regions. Another gap is the need for more detailed analyses of the challenges and risks associated with fintech, such as data privacy concerns, cybersecurity threats, and the potential for financial exclusion due to technological barriers (Vives, 2017). Addressing these gaps is important for developing a more profound understanding of fintech's role in financial inclusion and for guiding future research and policy interventions.

IV. THE ROLE OF FINTECH IN EXPANDING FINANCIAL ACCESS

• Account Ownership

Fintech has encouraged increasing access to financial accounts, particularly among underserved populations who have historically been excluded from traditional banking services. Through innovative solutions like mobile banking and digital wallets, fintech companies have enabled millions of people to open accounts without the need for physical bank branches. Between 2011 and 2021, the global share of adults with a financial account rose from 51% to 76%, largely due to fintech innovations (Demirgüç-Kunt et al., 2022). In the U.S., Chime, a digital-only bank, has significantly increased account ownership by providing fee-free banking services via its mobile platform. By removing traditional banking barriers such as minimum balance requirements and overdraft fees, Chime has become a preferred choice for many, especially younger, low-income individuals who might otherwise lack access

to traditional banking. As of 2023, Chime had surpassed 20 million account holders, underscoring its impact on enhancing financial access in the U.S. (Chime, 2023; Fintechnexus 2024). Other case studies of successful fintech solutions, such as M-Pesa in Kenya, PiggyVest in Nigeria, and Paytm in India, demonstrate how these platforms have broadened account ownership by offering accessible and low-cost financial services.

- Credit Access

Fintech has also been instrumental in improving credit access for individuals and small businesses, particularly those lacking traditional credit histories. By utilizing alternative credit scoring models, such as analyzing social media activity or transaction histories, fintech companies can assess creditworthiness more inclusively. In 2020, it was estimated that fintech lending accounted for nearly 40% of unsecured personal loans in the U.S., showing the growing reliance on digital lending platforms (TransUnion, 2020). Another example in the U.S. is Upstart, an AI-powered fintech platform that offers personal loans by assessing creditworthiness through alternative data points, such as education and employment history. This approach has enabled Upstart to extend credit to individuals who might have been excluded by traditional lenders due to insufficient credit history. By 2023, Upstart had facilitated over \$1.2 billion in loans, demonstrating its success in expanding credit access, particularly for underserved borrowers (Upstart, 2023). Digital lending platforms like Kiva and LendingClub have successfully provided credit to underserved populations, demonstrating the potential of fintech to bridge the credit gap.

- Digital Payments

The growth of digital payment systems has significantly impacted financial inclusion by making it easier for individuals and businesses to conduct transactions without needing cash or bank branches. Mobile payment solutions, such as Apple Pay and Alipay, have seen widespread adoption, even in underserved regions where traditional banking infrastructure is lacking. By 2022, over 1 billion people globally were using mobile payment services, illustrating the rapid expansion of digital payments (GSMA, 2022). The adoption of mobile payments in

regions like Sub-Saharan Africa has been particularly noteworthy, with platforms like M-Pesa leading the way in providing financial services to previously unbanked populations. In the U.S., Venmo, a mobile payment service owned by PayPal, has become a widely used platform for digital transactions, especially among younger consumers. Venmo enables users to transfer money instantly and without fees, making it an accessible option for those who may not use traditional banking services. By 2023, Venmo had grown to over 90 million users, showing its role in promoting financial inclusion through digital payments across the country (PayPal, 2023).

## V. IMPACT OF FINTECH INNOVATIONS ON FINANCIAL INCLUSION METRICS

- Global and Regional Trends

Fintech innovations have reshaped financial inclusion metrics both globally and regionally, with significant increases in account ownership, credit access, and digital payments. Globally, fintech has increased the percentage of adults with a financial account from 51% in 2011 to 76% in 2021 (Demirgüç-Kunt et al., 2022). In regions like Sub-Saharan Africa and Southeast Asia, mobile banking and digital payment platforms have been particularly influential. In Sub-Saharan Africa, mobile money services contributed to over 40% of adults having a mobile money account by 2021, up from 12% in 2011 (GSMA, 2022). Southeast Asia has experienced rapid growth in financial access due to the rise of digital wallets and mobile banking platforms while Latin America has seen a surge in fintech adoption, particularly in countries like Brazil and Mexico, where digital banking apps have significantly reduced the unbanked population. The growth in fintech has also spurred the development of digital identity systems in countries like India, where the Aadhaar program has facilitated easier access to financial services for millions.

- Case Study

SoFi (Social Finance, Inc.) is a prominent U.S. fintech company originally launched as a student loan refinancing company, SoFi has grown into a comprehensive financial platform offering personal loans, mortgages, investment services, and banking products. As of 2023, SoFi has amassed over 5 million members, demonstrating its widespread appeal and

effectiveness in reaching underserved populations (SoFi, 2023). SoFi is known to be user-friendly and this has contributed to its success as a digital tool and at competitive rates, which have particularly resonated with younger, tech-savvy consumers. SoFi's investment platform offers commission-free trading, similar to Robinhood, which has broadened access to the stock market for a larger audience, particularly those new to investing. SoFi has also impacted financial inclusion by making student loan refinancing more accessible, allowing borrowers to reduce interest rates and monthly payments. SoFi surged over 45% in student loan refinancing applications as repayments resumed, reflecting its importance in helping borrowers manage debt (CNBC, 2023). SoFi's investment platform offers commission-free trading, similar to Robinhood, which has broadened access to the stock market for a larger audience, particularly those new to investing. Also in the U.S., Square has empowered small businesses and entrepreneurs to accept digital payments, expanding financial access and driving the adoption of cashless transactions. Another fintech company, Robinhood, a U.S.-based fintech, has democratized investing by allowing individuals to trade stocks without commissions, thus broadening access to financial markets for everyday consumers.

## VI. QUANTITATIVE ANALYSIS

The impact of fintech on key financial inclusion metrics is evident through significant improvements in account ownership, credit access, and digital payments. In the U.S., fintech has driven a 40% increase in unsecured personal loans as of 2020, stating its role in enhancing credit access (TransUnion, 2020). Digital payment platforms have also experienced tremendous growth, with the global volume of digital payments reaching \$5.4 trillion in 2022, up from \$2.1 trillion in 2015 (Statista, 2022). The proliferation of mobile payment apps and digital wallets has made financial transactions more accessible to a broader population. Fintech solutions have been involved in increasing the global account population, with the banked rate rising from 51% in 2011 to 76% in 2021 (World Bank, 2022). In emerging markets, fintech innovations have also ensured microloans and insurance products structured for low-

income populations, further expanding financial inclusion.

## VII. CHALLENGES AND OPPORTUNITIES FOR FINANCIAL INSTITUTIONS IN LEVERAGING FINTECH

Financial institutions face several regulatory and technological barriers when integrating fintech solutions into their operations. These challenges include resolving complex and often outdated regulatory strategies that may not fully account for the unique aspects of fintech innovations. Compliance issues, such as data privacy, anti-money laundering (AML) regulations, and Know Your Customer (KYC) requirements, are also usually of major concern. There is a growing need for regulatory frameworks that balance the promotion of innovation with the protection of consumer interests, ensuring that fintech solutions can be adopted without compromising security or legal standards (World Bank, 2023). According to the Financial Stability Board (2023), cybersecurity is a primary concern, as the integration of fintech can introduce new vulnerabilities into financial systems, making them potential targets for cyberattacks. The existing infrastructure of many financial institutions may be outdated or incompatible with modern fintech applications, creating significant investments in technology upgrades. These hurdles can slow the adoption process and increase costs but they also present opportunities for financial institutions to modernize their operations.

Despite the challenges, there are numerous opportunities for collaboration between traditional financial institutions and fintech companies. Such partnerships can enhance financial inclusion by combining the strengths of both sectors—fintech's agility and innovation with the trust and customer base of established financial institutions. Successful collaborations, such as the partnership between JPMorgan Chase and fintech startup OnDeck to streamline small business lending, demonstrate the potential for these alliances to deliver improved financial services and broaden access to credit and other financial products.

## CONCLUSION

This paper studies the significant impact that fintech has had in promoting financial inclusion across the United States, particularly by expanding access to financial services for historically underserved populations. The findings reveal that fintech innovations, such as digital banking platforms, alternative credit scoring models, and mobile payment systems, have effectively broadened account ownership and improved credit access. However, these advancements are not without challenges that involve regulatory and technological hurdles, including cybersecurity concerns and the need for updated regulatory strategies that pose significant obstacles to the seamless integration of fintech solutions within traditional financial institutions.

The paper also explores collaboration between fintech companies and traditional financial institutions in overcoming these challenges. Successful partnerships, like those seen in the cases of JP Chase and OnDeck, demonstrate the potential for these alliances to enhance financial inclusion efforts. Policymakers need to develop supportive regulatory frameworks that encourage innovation while safeguarding consumer interests. Financial institutions must continue to invest in technology and cybersecurity to keep pace with fintech advancements, while fintech companies should focus on creating inclusive products that address the needs of underserved communities.

To maximize the benefits of fintech for financial inclusion, a concerted effort is required from all stakeholders. Policymakers, financial institutions, and fintech companies must work together to harness the power of technology, ensuring that the financial system is more inclusive, accessible, and equitable for all.

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