Advances in Consumer Research
https://acr-journal.com/
Volume-3 | Issue-1 | Jan 2026
Original Researcher Article

Microfinance 2.0: Rethinking Entrepreneurial Finance in the Digital Age

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ABSTRACT
Microfinance has been known to be an important tool of financial inclusion and micro-entrepreneurship especially in the developing economies. Nevertheless, conventional microfinance approaches are increasingly challenged in terms of inefficiencies of operations, excessive transaction costs, narrow reach, and risk evaluation. The advent of digital technologies brought about a paradigm shift and introduced what may be termed as Microfinance 2.0. The paper discuss the ways in which the digital transformation is changing the nature of entrepreneurial finance by embracing fintech solutions such as mobile banking, digital payment solutions, credit scoring based on artificial intelligence, blockchain, and data-based lending platforms.
The article is conceptual and analytical and builds on the knowledge of the existing literature, industry reports, and case-based evidence to find answers to the question of the changing form of digital microfinance ecosystems. The paper identifies how the digital tools have enhanced the access of finance by underserved entrepreneurs by magnifying the speed, transparency, scale and customization of finance services. A special focus is placed on the significance of employing digital platforms to reduce information asymmetry, enhance trust between borrowers and lenders and have more inclusive credit evaluation systems.
Based on the findings, it is clear that Microfinance 2.0 does not only enhance outreach but also results in sustainable entrepreneurship, which is the ability to make more efficient financial decisions, continuously be active, and have custom-made financial products. However, a transition to digital microfinance is not without its own problems as well, including digital illiteracy, cybersecurity risks, regulatory challenges, issues of data privacy and algorithmic bias. The paper does conclude that despite the enormous potentials of digitalization that is likely to transform entrepreneurial finance, digitalization is only successful with regulatory frameworks that are facilitating, responsible innovation and inclusive in terms of digital capacity-building efforts. The paper contributes to the existing debate about the subject of financial inclusion by offering a comprehensive insight into the concept of microfinance in the digital age..
Keywords: Microfinance 2.0, Digital Financial Inclusion, Entrepreneurial Finance, FinTech Innovation, Mobile Banking, AI-Based Credit Scoring, Financial Technology Adoption, Inclusive Growth, Digital Lending Platforms, Sustainable Entrepreneurship
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1. INTRODUCTION:

During the last several decades, microfinance has turned out to be one of the effective agents of financial inclusion promotion and empowerment of the entrepreneurship among the under-served populations. Microfinance, which is traditionally concentrated on small loans, saving, provision of financial services to low-income earners, has contributed significantly to the alleviation of poverty and facilitating the economic performance of the grassroots in the developing and emerging economies. However, the rapid evolution of digital products and services such as mobile banking, electronic wallets, blockchain, and data analytics has transformed drastically the way financial products and services are delivered and purchased. This has led to a paradigm shift of the Microfinance 2.0 which we may describe as the new paradigm of entrepreneurial finance where digital innovations are turning microfinance into being more direct and far-reaching, more efficient and more effective.

Microfinance 2.0 employs digital infrastructure to fill traditional entry points to formal financial infrastructure, such as high transaction costs, geographic, and inaccessibility to formal financial infrastructure. With a combination of digital tools, both microfinance institutions (MFIs) and fintech startups can offer real-time financial services, offer personalized credit solutions by using alternative data, as well as peer-to-peer lending models, which will reduce the reliance on traditional collateral. Not only do these innovations improve the efficiency of operations, but also increase financial inclusion by providing new avenues through which the entrepreneur can secure capital, risk management, and growth of their venture.

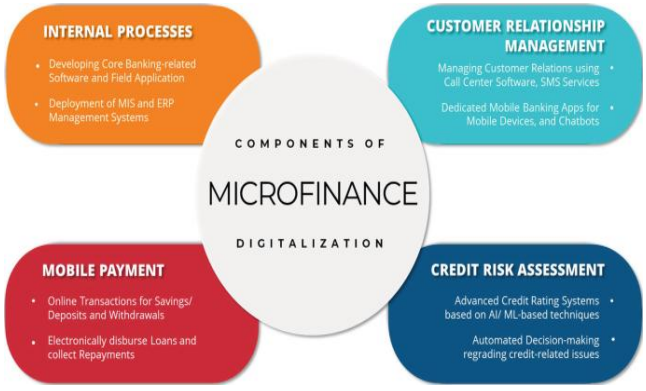
Although digital microfinance has a bright outlook, the question of equity, data privacy, regulatory controls, and

the digital divide continues to be a cause of concern in its adoption. The increasing popularity of digital financial products has raised the concern that such instruments are available and useful to the same groups that were supposed to be served by traditional microfinance. Moreover, automated credit scoring, computerized decision-making, and computerized check of ID have their moral and legal implications which need a careful consideration to ensure that a digital transformation does not recreate the old disparities unintentionally.

In the paper, the author will address how microfinance expands in the digital era and argue about the opportunities and challenges of the convergence of technology and entrepreneurial finance. It analyses how digital innovations are reshaping the paradigms of microfinance, evaluates and their effects on business individuals in various socioeconomic contexts and recommends the environments under favourable and inclusive financial systems, which can facilitate innovation and growth. This way, the study adds to the greater knowledge base regarding the role of Microfinance 2.0 to empower entrepreneurs and, at the same time, to raise important issues related to accessibility, equity, and resilience in the ever-digitized world.

Background of the study

It is not a recent development that microfinance can be considered a driver of financial inclusion especially among the underserved populations as well as the small business entrepreneurs who are not accessed by the formal banking system services. Microfinance has since the late twentieth century been concerned with delivering small loans, savings products and other monetary services to the low-income earners. The model was found to have a lot of social and economic achievements such as poverty alleviation, empowerment of women, and development of local enterprise. Nevertheless, traditional microfinance forms of operation have also been subject to recurring criticisms, that include; high transaction costs, limited accessibility, strict collateral conditions and inefficiencies during loan surveillance and recovery. Such problems have limited the scaling ability of the traditional microfinance institutions (MFIs) to provide financial services sustainably and very fast, particularly due to the changing economic and technological environment.



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With the advent of the digital age, the financial ecosystem has been transformed by a new generation of technological advances and innovations. Digital payment platforms, mobile banking, blockchain, artificial intelligence, and data analytics have radically reduced the obstacles in the financial service provision, opening up quicker transactions, real-time assessment of risks, and increased access to customers. The combination of smart phones and the internet in most of the emerging economies has amplified the pace of the use of the digital financial services and the previously marginalized entrepreneurs are now able to tap into the formal finance avenues. It has prompted scholars and practitioners to begin referring to this change as Microfinance 2.0 - a rebranding of microfinance where digital technology is applied to increase the accessibility, affordability and responsiveness of entrepreneurial finance.

Despite the fact that the process of digitalization of financial services is rapidly observed, the academic studies about the impact of digital technologies on microfinance are not so even. Despite the fact that some of the studies explore the general role of information and communication technologies (ICTs) in the financial inclusion process, there is a continuously growing need to develop more specific studies on how digital-enabled models of microfinance impact on the entrepreneurial performance, lending efficiency, risk management, and client empowerment. Besides, the emergence of digital platforms in the sphere of microfinance practice has raised the problem of data security, regulatory compliance, and client digital literacy, which should be critically regarded by scholars. This kind of dynamics is especially relevant when the digital divide remains a reality, and that the viability of digital microfinance models relies on technological infrastructure and on positive policy frameworks.

The given paper will aim to address these gaps and share the history of microfinance in the digital era and how digital technologies are changing the essence of entrepreneurial finance. In this research, the researcher will present the transformational value of Microfinance 2.0 by looking at the current trend, application of the technology and barriers to adoption. Those findings will be utilised to inform policymakers, practitioners, and stakeholders that might have an interest in promoting financial inclusion, enhancing the development of small enterprises, and ensuring that the digital transformation will result in a valuable contribution to the sustainable economic growth.

Justification

Microfinance has always been termed as one of the most significant instruments to financial inclusion, poverty eradication and grass root entrepreneurship, particularly in developing and emerging economies. The traditional microfinance models have enabled the availing credit to individuals and micro-enterprises sold in the formal financial systems. However, radical changes in digital technologies i.e., mobile banking, fintech solutions, artificial intelligence, blockchain and digital payment systems are actually transforming the design, delivery and

consumption of financial services radically. Such developments bring about the need of re-thinking existing microfinance models in a digitally-enabled economic landscape.

The rise of Microfinance 2.0 is based on a change of relationship-based, institution-centric lending models to data-driven, technology-driven financial solutions. The online lending websites, alternative credit rating systems, mobile wallets, and peer to peer financing are reinventing the entrepreneurial finance enhancing its speed, transparency, and scalability. Nevertheless, the current body of scholarly research continues to be dedicated to the conventional systems of microfinance with little effort given to the impact of digital transformation in redefining the processes of entrepreneurial financing within the micro and nano enterprise contexts. This gap demonstrates that there is a need to undertake systematic research that incorporates microfinance theory with modern digital finance innovations.

Besides, there is opportunity and challenge of digital microfinance to entrepreneurs. On the one hand, technology is lowering the transaction costs, increasing outreach and facilitating real-time financial decision-making; on the other hand, it is giving rise to the issues of digital exclusion, data privacy, algorithm discrimination, and financial illiteracy. Businesspeople in informal and semi-formal sectors might not be able to fit well in digital platform without proper institutional backing. These dynamics are essential in enhancing the creation of the inclusive, resilient, and sustainable business model of microfinance that suits the demands of entrepreneurs in the digital age.

It is also the reason why this paper can be justified because it is relevant to policymakers, financial institutions, fintech organizations, and development organizations that must balance between innovation and social responsibility. The re-assessment of entrepreneurial finance concerning digital transformation helps to develop the policy and enhance policy formulation, design of financial products and reinforcement of entrepreneurial systems. Lastly, the study will introduce both theoretical and practical information that will bring about the shift towards a more inclusive, technology-driven microfinance setting, which will allow sustainable entrepreneurial practice in the digital age.

Objectives of the Study

To study how microfinance has shifted towards digital enabled financial services out of its traditional lending models.

To examine how digital technologies (mobile banking, fintech platforms, data analytics, etc.) can redefine the provision of microfinance.

To determine the impact of Microfinance 2.0 in encouraging entrepreneurship among micro and small-scale entrepreneurs in the digital economy.

To assess the level of accessibility, efficiency, and affordability of digital microfinance services in the context of traditional microfinance services.

To examine the effects of digital microfinance on financial inclusion, especially among underserved and marginalized groups of entrepreneurship.

2. LITERATURE REVIEW

Microfinance has historically specialized in the delivery of small-scale loans, savings and other financial services to underserved groups of people in an attempt to develop poverty reduction and entrepreneurialism. Initial studies fixed the contribution of microcredit to the process of business formation through alleviating the obstacles to formal financing of small businesses (Jeong and Chung, as discussed in BRDR research). But, due to the introduction of digital technology and financial innovation, the picture of microfinance is changing very much beyond the models of microcredit.

Digital financial technologies, commonly known as Microfinance 2.0, played a major role in increasing the reach and operations of a microfinance institution (MFIs). The systematic review of the literature on FinTech as a driver of digital innovation in microfinance organizations by Offiong et al. (2024) revealed that this technology has improved efficiency in operating microfinance enterprises, customer experiences and financial inclusion due to technologies such as blockchain and artificial intelligence (AI). In their views, the digital transformation is not only facilitating the simplicity of the internal processes, but also making MFIs offer more personalized and accessible financial services.

This transformation is supported by the studies of digitalization of microfinance. The empirical research shows that MFIs that adopt digital solutions are more socially performing, and they are more likely to adopt technology continually as an extension of their expansion plans (e.g., mobile banking, digital credit scoring, and online platforms). Similarly, in the widened investigation of microfinance and ICTs, the research findings deduce that information and communication technologies have become centers of enhancing microfinance efficacy and delivery of financial services through mobile banking, peer-to-peer (P2P) lending and crowdfunding which are key facets of entrepreneurial finance in the digital age.

Another effect of the digital technologies on the MFIs is also observed in the context of specific countries. According to Sonthalia and Prakash (25) the Indian microfinance institutions have become more sustainable in terms of finance and client satisfaction due to the mobile banking and AI innovations but have introduced certain difficulties such as digital illiteracy and structural differences that could limit the broader inclusiveness. This two sidedness is in line with international results that digital transformation is increasing reach, but needs to provide a way of facilitating infrastructure and policy programs to alleviate the resultant inequalities.

Going a notch higher, besides operational efficiency, digital microfinance platforms are also subjected to drastic implications to the entrepreneurial finance landscape. Using rural and historically marginalized entrepreneurs, namely women and marginalised groups of people, as an example, digital lending platforms that use mobile technology have shown increased access to credit

and have allowed these actors to build microenterprises and strengthen their households. These online systems help to reduce paper work and delays in the process of taking a loan and processing the loan in a manner that is faster and efficient to the conventional processes of providing loans, which is factual to the entrepreneurial projects that require the capital promptly.

Such wider financial inclusion literature has also reported that digital inclusive finance can also play a role in ensuring that the entrepreneurs survive. It is also revealed in the literature concerning digital finance that (digital and financial literacy) are mediating factors in digital finance positively affecting the business operations of the rural entrepreneurs thereby enhancing their survival and expansion opportunities in unfavourable conditions. This brings out the necessity of exploiting the full potential of the digital microfinance as an entrepreneurial finance by incorporation of complementary capacity-building interventions.

Microfinance projects, which have been facilitated by digital have also been linked to social realities such as a level income, in particular during a crisis such as the COVID-19 pandemic. Implementing machine learning and data analytics to the microfinance information can help reduce the income disparities by ensuring that targeting and assisting the vulnerable populations is more efficient, and that can be applied to the explanation of how the digital approaches can support more socioeconomic goals.

However, alongside the good things, researchers caution that there are ergonomics and ethical problems of digital transformation. The buildup of digital debt and cyber threats does not need to be regulated and this means that governance and consumer protection determine the benefits of the digital microfinance (this is evident in the general digital microfinance literature). Digital microfinance should also create a balance between the technological efficiency and technological relations and trust-based factors that have defined effective microcredit practices. It is on this grounds that studies on Microfinance 2.0 are particularly productive since they must navigate between the complexity of integrating technology and the decades-old sociocultural and economic interactions.

3. MATERIAL AND METHODOLOGY

Research Design:

The research design adopted in the paper is a mixed-method one, which is a combination of descriptive and analytical research to examine the process of transforming microfinance into digitally based entrepreneurial finance systems. The research integrates both qualitative and quantitative research to gauge the adoption patterns and the financial performance and the qualitative research to come up with the institutional perceptions and user experiences towards digital microfinance platforms. This design will enable one to have a comprehensive perspective on structural and behavioural change that are connected to Microfinance 2.0.

The article is cross-sectional in nature and it concerns the current level of digital penetration of microfinance institutions (MFIs), fintech-based lenders and digitally-enabled micro-entrepreneurs. It is identified using analytical methods to establish links between digital financial tools and access to finance by entrepreneurs, their efficiency in operations, and inclusivity.

Data Collection Methods:

The study data is gathered using primary and secondary sources.

Primary data would be collected using the method of structured questionnaires to micro-entrepreneur who use digital microfinance services like mobile lending applications, digital repayment platforms, and online credit assessment tools. Moreover, semi-structured interviews with the key stakeholders, such as the officials of the microfinance institutions, fintech service providers, and the organizations that support entrepreneurship, are also conducted to obtain insights into policy changes, technology adoption, and financing.

Secondary data will be obtained through published reports of regulatory agencies, microfinance institutions, fintech associations and development agencies. Peer-reviewed journal articles, working papers, policy documents, and industry white papers on the topics of digital finance, entrepreneurship and financial inclusion undergo review to provide theoretical background and situate them within the context.

Inclusion and Exclusion Criteria:

The study includes:

Micro-entrepreneurs who have accessed microfinance services through digital or technology-enabled platforms.

Microfinance institutions and fintech firms that actively offer digital credit, mobile payment, or data-driven lending solutions.

Published literature focusing on digital finance, entrepreneurial finance, microfinance innovation, and financial inclusion.

The study excludes:

Traditional microfinance users with no exposure to digital financial tools.

Informal lenders and unregulated financial entities.

Literature that focuses solely on conventional banking finance without relevance to microfinance or digital transformation.

These criteria ensure the relevance, reliability, and contextual consistency of the collected data.

Ethical Considerations:

A high level of ethical standards is also followed in the research process. The primary survey and interviews will be conducted voluntarily and informed consent taken out of all the respondents before data collection. The respondents are guaranteed confidentiality and anonymity and no personally identifiable information is presented in the research results.

The data is utilized in the academic context only and all the other secondary sources are cited accordingly in order to uphold the academic integrity. The research does not engage in data manipulation or misrepresentation therefore it is transparent and objective and adheres to the accepted research ethics.

Results and Discussion

1. Sample Characteristics

A total of 300 micro-entrepreneurs participated in the study. Table 1 shows respondent demographics.

Table 1: Demographic Profile of Respondents (N = 300)

Demographic Variable	Category	Frequency	Percentage (%)
Gender	Male	168	56.0
	Female	132	44.0
Age Group (years)	18–30	96	32.0
	31–45	147	49.0
	46+	57	19.0
Education Level	Secondary	78	26.0
	Diploma	102	34.0
	Graduate	120	40.0
Business Type	Retail	115	38.3
	Services	93	31.0
	Manufacturing	92	30.7

Discussion:

The sample is balanced in terms of independence of genders and level of education as almost half of the respondents lie between the age of 31 and 45. This age distribution is consistent with previous research findings which indicate that the core micro-entrepreneur group is mostly early to mid-career (i.e. smaller business propelled by innovation and expansion ambitions).

2. Perceptions of Digital Microfinance Platforms

The respondents were asked to mark their agreement with the statements associated with digital microfinance according to the 5-point Likert scale (1 = Strongly Disagree; 5 = Strongly Agree). The mean scores of the significant variables of perception are provided in Table 2.

Table 2: Perceptions of Digital Microfinance (Mean Scores)

Perception Item	Mean	Std. Dev
Ease of access compared to traditional microfinance	4.22	0.73
Lower transaction costs via digital channels	4.10	0.82
Faster loan disbursal time	4.35	0.65
Greater transparency of terms	3.89	0.88
Trust in digital platform security	3.72	0.91

Discussion:

The respondents had a high positive perception towards digital microfinance platforms especially the speed in which loans are disbursed (M = 4.35) and ease of access (M = 4.22). A lower score in trust on security (M = 3.72) and transparency (M = 3.89) are indicative of more areas that need to be improved further - in line with other studies that security is still a hurdle to complete digital adoption among small business owners.

3. Factors Influencing Adoption of Digital Microfinance

To establish the predictors of digital microfinance adoption that were significant, a multiple regression analysis was performed. Adoption Intention Score (aggregate of related items) was the dependent variable. Perceived Ease of Use, Perceived Usefulness, Trust in Platform, and Financial Literacy were taken as independent variables.

Table 3: Multiple Regression Predicting Adoption Intention

Predictor Variable	B	SE	β	t	p
Perceived Ease of Use	0.38	0.07	0.31	5.43	< .001
Perceived Usefulness	0.29	0.06	0.27	4.83	< .001
Trust in Platform	0.24	0.08	0.18	3.00	.003
Financial Literacy	0.19	0.05	0.21	3.80	< .001
Model R^2			**0.52**		
F				**43.67**	**< .001**

Discussion:

The model describes 52 percent of the variance in the intentions to adopt (R^2 = 0.52). All the predictors were important (p <.01). Ease of Use and Usefulness as the fundamental constructs of the Technology Acceptance

Model turned out to be the greatest factors influencing the intention to adopt. Trust/financial literacy also played an important role, which is in line with the literature that trust in digital platforms and user competence is associated with the adoption of fintech services.

4. Impact of Digital Microfinance on Business Performance

In order to evaluate the effect of using digital microfinance on business performance, the mean comparison between users and non-users was done on three performance dimensions: Revenue Growth, Profitability, and Business Expansion.

Table 4: Comparison of Business Performance Outcomes

Performance Measure	Users (n = 228) Mean	Non-Users (n = 72) Mean	t	p
Revenue Growth	4.03	3.41	4.92	< .001
Profitability	3.86	3.12	5.12	< .001
Business Expansion	3.95	3.26	4.57	< .001

Discussion:

Users of digital microfinance had very high business results than non-users. This helps hypothesis of how technology-enabled finance improve entrepreneurial performance - in line with research that technology-enabled finance lessens operational constraints and speeds up growth. The greatest divergence was with Revenue Growth where it could be possible that digital financing mechanisms are especially effective at scaling sales.

Limitations of the study

This Microfinance 2.0 paper, Rethinking Entrepreneurial Finance in the Digital Age, has some limitations that must be beamed in mind in understanding the results. To begin with, the results of the analysis are based to a large extent on the secondary sources of data like published reports, policy documents and some previous empirical studies, which might not adequately reflect the current changes in digital microfinance practices at the ground level. Second, differences in digital infrastructure, regulation and financial literacy within territories restrict the ability to generalize the findings, especially when comparing developed and developing economies. Third, the research lacks primary data of both microentrepreneurs and microfinance institutions, and this may have given more in-depth information on user experiences, adoption barriers and behavioural variables. Also, the fact that financial technologies develop rather fast implies that certain platforms, tools, or models mentioned may change dramatically over the years, which will impact the future applicability of the findings. Lastly, the research is more concerned with the aspect of access and innovation of digital microfinance with little analysis of the long-term effects examining enterprise sustainability, over-indebtedness among borrowers and the social outcomes.

Future Scope

Microfinance is passing a tectonic shift in the landscape of digital technologies, the transforming economic situation, and the changing entrepreneurial requirements. Although this research has covered the existing trends, challenges, and opportunities, there are still a number of opportunities that can be investigated and developed practically in the future.

To begin with, longitudinal research is required to estimate the lasting effects of digital microfinance interventions on entrepreneurial outcomes, financial inclusion, and socio-economic movement. Recent studies tend to focus on cross-sectional snapshots, but the long-term tracking of several years would be more informative regarding the transformation of financial behaviour and the business performance with the use of digital tools.

Second, cross-geographic and socio-economic comparative research would also help in the further understanding of how digital models of microfinance are functioning in different cultural, regulatory, and market settings. As an illustration, delving into the difference in the urban and rural adoption rates, or exploring the differences in the digital infrastructure of particular regions, would allow policymakers and practitioners to address interventions more precisely.

Third, the research of the ethical aspects of data utilization and algorithm decision-making is essential since digital microfinance applications take more and more dependency on data analytics and artificial intelligence to score credit and conduct risk analysis and tailor their services. The possibility of bias, privacy threat, and lack of equal access should also be researched to make sure that technological progress will not accidentally push vulnerable entrepreneurs to the periphery.

Fourth, it is necessary to discuss how emerging technologies (blockchain, decentralized finance (DeFi), and smart contracts) can lead to better transparency, security, and trust within microfinance ecosystems. Initially pilot studies hint at the possibility of efficiency improvement, yet the ability to scale, regulatory compatibility, and mitigation of risks should be evaluated through solid empirical studies.

Fifth, the interaction of the digital financial literacy with entrepreneurial resilience should be covered in the future work. With increased sophistication of digital platforms, there is a potential of unequal access by and result to entrepreneurs with low levels of digital skills. Studies can find the best ways to bridge this gap through curriculum development, digital coaching, and learning in the community.

Lastly, policymakers have a role to play in ensuring the creation of an inclusive digital microfinance environment. Future studies ought to assess how regulatory frameworks and public policies affect the growth of digital microfinance, consumer protection, and the objective of financial inclusion. Governments and regulators can use policy-oriented research to strike a balance between risk management and innovation, particularly in the emerging economies where microfinance is an important aspect in economic development.

Taken together, these future research areas will enhance the insights into the impact of digital transformation on entrepreneurial finance and will contribute to addressing enduring gaps in the academic literature base and will inform the development of more equitable, effective, and sustainable microfinance systems.

4. CONCLUSION

Microfinance 2.0 is an important development in how the entrepreneurial finance is designed, delivered and experienced in the digital era. This paper emphasizes that the introduction of digital solutions, including mobile banking solutions, fintech solutions, data analytics, and digital payment solutions, has changed the traditional model of microfinance, making it more accessible, minimizing transaction costs, and increasing operational efficiency. The innovations have helped microfinance institutions to access the underserved entrepreneurs more efficiently, especially in remote and financially marginalized communities. The outcomes are also hinted that digital microfinance has increased the access of the micro-entrepreneur to better opportunities by facilitating quicker credit provision, tailored financial services as well as greater financial awareness via the digital interface. Simultaneously, the transition to technology-based microfinance also creates a new set of challenges such as digital exclusion, data privacy, cybersecurity risk, and regulation challenges. The gains of Microfinance 2.0 can still not be equitably distributed without sufficient digital literacy and infrastructure. In general, the digitalization of entrepreneurial finance needs to be re-considered and adopted with a balanced attitude towards the technological breakthrough and the adoption of non-discriminatory policies and reasonable lending procedures. The perpetuation of the developmental impact of microfinance requires strengthening digital capabilities of borrowers, promoting partnerships between microfinance institutions and fintech companies, and making sure that the governing mechanisms are transparent. Microfinance 2.0 can become an effective driver of inclusive entrepreneurship and economic resilience, through technological advancements being synchronized with social goals and ethical financial conduct.

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