Review Article

Micro-Credit in Bangladesh: A Comprehensive Review of Its Evolution, Impact, and Challenges

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ABSTRACT

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| This article tracks the trajectory of microcredit in Bangladesh, showing how it has grown from a small, grassroots enterprise to an essential part of the financial inclusion and rural development agenda. In Bangladesh, microcredit has revolutionized sexual practices through its unique, non-collateral group financing, conceived by Grameen Bank and BRAC in the late 1970s, to help millions of poor, primarily female, communities. The industry has grown considerably from pilot projects to a large-scale structure supported by stronger legislation, government involvement, and international donor financing. Such progress has decreased poverty tremendously and has been critical to meeting urgent Sustainable Development Goals, particularly SDG 1 (No Poverty) and SDG 5 (Gender Equality). This study employed various types of secondary data to obtain a critical perspective of microcredit's social and economic impacts. These include assessments from microfinance agencies, government data, and peer-reviewed studies. Some analyzed key outcomes include improvements in household income, employment, access to education and healthcare services, and increased women's empowerment and expansion of rural entrepreneurship activities. The study highlights some remaining problems, including the risk of debt traps, high loan interest rates, spatial inequalities in access, and a growing complexity in how digital microcredit functions. At the same time, there is a notable digital divide. The study blends empirical research with policy studies to point out significant problems in how microcredit is presently provided and to indicate applicable policy shifts to improve regulatory frameworks, enhance financial literacy, and address digital inequality. The study provides valuable insights for policymakers, financiers, and development practitioners who wish to achieve successful microfinance sustainability in promoting equitable economic development in Bangladesh. |

***Keywords:*** *Agricultural Extension; Microcredit; Rural development, Poverty alleviation; Policy reform; Bangladesh.*

1. INTRODUCTION

Micro-credit has proved to be a revolutionary tool in rural finance, and the most successful projects so far have been in Bangladesh, where Grameen Bank and BRAC have presented people participating in poverty with the idea of credit (Haider, 2023). Bangladesh's micro-credit model is widely regarded as the birthplace of contemporary microfinance as it is acknowledged to significantly contribute to poverty alleviation and incorporate financial inclusion in pursuing decent results for the sustainable development goals, including SDG 1 and SDG 5 (No Poverty and Gender Equality) in its implementation (Denoncourt, 2022).

The journey of micro-credit in Bangladesh, right from an innovation phase to mass scale with the inclusion of millions of borrowers in the formal financial system, is an excellent example of pilot projects translating into an institution product. Loans on a smaller scale, especially on a non-collateral basis, to women from underprivileged sections of society have already proved that they need an opportunity to uplift their livelihood or enterprise in a dignified manner. If you ask people about micro-credit initiatives, most will probably say how successful they have been. Still, whether this success can be sustained in the long run remains controversial. Key Benefits and New Evidence Thousands of studies have documented the short-term benefits of cash transfers, including higher household income, better education, and healthcare access. Still, new evidence suggests that benefits can be unevenly enjoyed. Micro-credit sometimes becomes the brunt of the cyclical debt traps. Borrowers ensnare themselves in over-indebtedness, thus defeating the purpose of the poverty alleviation objective of micro-credit that these programs are essentially intended for. It was in Bangladesh where the first modern micro-credit was born, shaking the economic bonds of the globe in the name of poverty and inclusion at the time. The micro-credit revolution was suggested in its infancy in the 1970s, against the backdrop of social and economic devastation that settled in after Bangladesh gained independence in 1971 (Murshid, 2022). The traditional banking systems have long failed rural women in Bangladesh, and the hyper-electronic banking from Bangladesh allows Bangladesh to turn right in Bangladesh, combining banking technology with a high level of extreme poverty — over 80% of the urban and rural population (Zhang et al., 2022). Only outfits like Grameen Bank and BRAC had found the pluck to walk into this void, opening the path for collateral-free lending programs that would usher in the disenfranchised into financial systems for a moment.

When Muhammad Yunus founded the Grameen Bank in 1983 (Jabbar, 2024), the Nobel laureate radically departed from conventional banking by placing women — 95 percent of his borrowers — at the center of the economy, doing away with physical collateral in favor of group lending. Yunus (1999), for example, involved borrowers joining five-person groups and enlisting the support of their peers in the same community to keep one another socially accountable. As a result, it had a 98% repayment rate. Grameen Bank, 2023, lent more than 30 billion dollars to 10 million borrowers to fuel microenterprises in various industries, including agriculture, handicraft, and retail. BRAC — established in 1972 — took a more holistic approach, merging microfinance with health care (A. K. M. Pervez, 2018), education, and even legal aid. Its 2002 target was the Ultra-Poor (TUP) program, which combined direct transfers of physical assets (e.g., livestock, sewing machines) with micro-loans, resulting in 95% of participants escaping extreme poverty within two years (Banerjee et al., 2015). Together, these institutions brought microfinance to the world stage through their national policy impact in Bangladesh, leading to replication throughout 100+ other countries.

This micro-credit MKM model has effectively contributed to realizing the United Nations Sustainable Development Goals (SDGs) milestones. By SDG 1 (No Poverty), micro-credit alone accounted for a 22% reduction in extreme poverty (World Bank, 2023) between 2000 and 2022, lifting upwards of 25 million Bangladeshis above the poverty line (Uddin, 2024). In rural households, microloans produced a 30% increase in income, enabling investment in nutrition, education, and healthcare (Mahmud et al., 2022). Micro-credit emerged as a tool to advance women's empowerment for SDG 5 (Gender Equality): 65% of micro-credit borrowers are women, and studies found increases when women made decisions about household expenditures by 40% and in women-owned businesses by 25% (Kato, 2023). Building on these gains, BRAC's Gender Justice Program trained 2 million women in financial literacy and legal rights until 2020 (Banks et al., 2024).

The sector's history, however, has not been controversy-free. Critics blame exorbitantly high interest rates (20–35%). MFIs have put a heavy burden on low-income borrowers, many of whom have loans with multiple MFIs. While the involvement of women is applauded, scholars such as Karim (2011) argue that micro-credit is often a continuation of existing burdens between the genders, particularly in cases where a woman is depicted as an "agent of repayment," whether she can challenge structural inequalities or not. These new avenues bring challenges like cyber-attacks and the exclusion of digitally illiterate rural populations (Grybauskas et al., 2022).

While globally, micro-credit interventions in Bangladesh are highly acclaimed for being considerable tools of poverty alleviation and social mobilization, mainly through Grameen Bank and BRAC, whether those effects could be sustained in the long term remains a point of contention amongst academics. On the one hand, the case for micro-credit has been made in detail, and much of the empirical work identifies enormous successful benefits at short timescales with micro-credit, resulting in better living standards, increased income generation, and access to education and healthcare for low-income households. These achievements have been instrumental in the country's approach to significant sustainable development goals (SDGs) like SDG 1 — No Poverty and SDG 5 — Gender Equality (Sen, 2019).

However, a considerable amount of literature also identifies potential drawbacks of micro-credit, particularly in terms of financial and borrowing sustainability in the long run. Critics of micro-credit counter that as much as it assists people in need by offering short-term, high-value loans that bring immediate relief, micro-loan-based endeavors lead to cyclical debt traps, whereby borrowers are trapped in cycles of over-indebtedness, adding onto rather than resolving their financial instability and, by extension, poverty. These daisy chains of debt raise fundamental questions about the viability of micro-credit programs as a driver of sustainable development. This mixed evidence of these long-term impacts points to a need for a deeper examination of the conditions and underlying mechanisms that lead to success or failure.

Significant regional variations also exist in the implementation of micro-credit in Bangladesh. In varying ways, strong institutional backing and favorable socio-economic settings have amplified the positive impact of micro-credit in some regions. In contrast, weak institutions, low financial literacy, and varying market conditions have inhibited the same in others. These differences demonstrate the necessity of contextualizing micro-credit analysis, as there is still an empirical gap in understanding how geographical, cultural, and economic elements affect the results of such interventions across the country.

Digital micro-credit platforms represent another layer of this complexity. As fintech becomes synergistic towards microfinance, the generic models must evolve (Thomas, 2023). However, the impacts of this digital transition are still not fully understood. Digital illiteracy, internet access, cybercrime issues, etc., have created new challenges, while transparency and efficiency improvements are probably the most critical opportunities. Digital micro-credit has thus evolved an evolution that poses a challenge and an opportunity but also begs new research to accommodate that fact. This mixed picture of both progress and renovation reports creates a new context that warrants a systemic broader review — an effort to consolidate information available for the impact micro-credit has on poverty in Bangladesh along with a much-needed critical understanding of the structural determinants that have created this disparity in the success of micro-credit in different localities and conditions.u

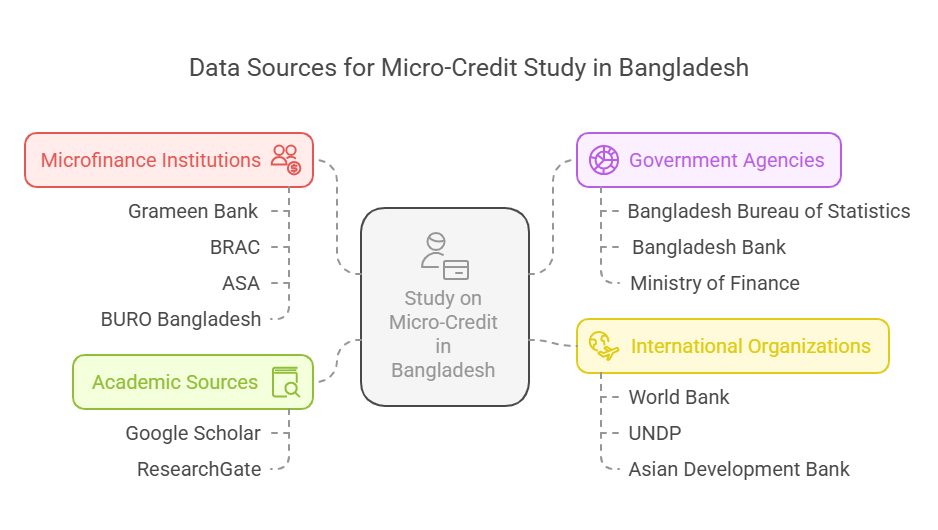
This review predominantly aims to critically review the evolution, socio-economic impact, and challenges of microcredit in Bangladesh. This review critically evaluates the effectiveness and limitations of micro-credit in promoting financial inclusion, poverty alleviation, and rural development through synthesizing existing literature, empirical studies, and policy reports. The review will have the following specific aims: a) To examine the historical evolution of micro-credit in Bangladesh, highlighting key institutions, policies, and milestones; b) To assess the socio-economic impact of micro-credit, focusing on poverty alleviation, women's empowerment, and rural development; c) To analyze regional disparities in micro-credit accessibility and effectiveness, identifying barriers to financial inclusion; d) To explore the role of digital transformation in micro-credit, including fintech innovations and mobile banking; e) To identify key challenges and propose policy recommendations for improving the sustainability and effectiveness of micro-credit programs in Bangladesh.

2. material and methods

This examines the origins, socio-economic impacts, and challenges of micro-credit in Bangladesh. The integration of qualitative and quantitative data for a thorough investigation of micro-credit and its influence on financial inclusion across diverse community and rural populations.

**2.1. Data Collection**

This study was based on secondary data as it provided a comprehensive and evidence-based evaluation of micro-credit's evolution, impact, and challenges in Bangladesh. These included reports and publications from prominent microfinance institutions like Grameen Bank, BRAC, ASA, and BURO Bangladesh, as well as regulatory documents from the Microcredit Regulatory Authority (MRA). The secondary data were collected from government departments, such as the Bangladesh Bureau of Statistics (BBS), Bangladesh Bank, and Ministry of Finance, that published data on financial inclusion, economic variables, and rural development. Also, some international organizations (for example, World Bank, UNDP, and ADB) provided invaluable data on the global and regional trends of micro-credit and offered comparisons with Bangladesh's adherence to the micro-credit model. The data sources were collected through peer-reviewed journal articles that were accessed via Google Scholar and ResearchGate. The micro-credit effect inside the academic sources discusses poverty alleviation, women's empowerment, and rural finance sustainability, including its role.



**Figure 1. Methodology of Micro-Credit of the Study.**

**2.2. Impact Assessment**

In this regard, this study explored the effect of micro-credit on socio-economic development using the three broad indicators, i.e., poverty alleviation, women empowerment, and rural development. Poverty reduction was defined as measurable income, employment, education, and medical care gains. It took a hard look at the ability of micro-credit borrowers to make a consistent income, create jobs, and put their children through education and health care services. These indicators tell us whether micro-credit raised households out of poverty or if those structural barriers prevent long-lasting solutions.

They would track women's empowerment, measuring it by the extent of female entrepreneurship and the capacity to make financial decisions and own businesses (A. K. M. K. Pervez et al., 2024). Particular focus was given to the benefit of micro-credit in overall women's access and control over material resources, participation in economic activities, and increased bargaining power in the household and community. Female borrowers also mentioned socio-cultural restrictions, financial illiteracy, and limited access to markets. Some others were indicators of rural development, such as micro-entrepreneurship, agriculture productivity, road and communication infrastructure improvement, digital financial inclusion, etc. Evaluating the effectiveness of micro-credit in stimulating the rural economy and entrepreneurship, and technological innovation in financial services. The findings also revealed the effect of access to micro-credit on rural infrastructural development, that is, improvements in electricity, sanitation, transportation, and digital connectivity. By integrating these socio-economic markers, this research provides a nuanced perspective on the consequences of micro-finance in Bangladesh, highlighting both the potential it harbors and the obstacles still needing to be addressed to achieve lasting equitable financial access.

3. Evolution of Micro-Credit in Bangladesh

3.1. Origins and Pioneers

The origins of microcredit in Bangladesh are an inflection point in the story of global development finance (Awaworyi Churchill, 2018). Microcredit was born from the paradoxical-individualist movement of the late 1970s and early 1980s, led by organizations such as Grameen Bank and BRAC, to name just two. By their recognition, we are celebrating these pioneers of entrepreneurship who turned the traditional lending model upside down, putting small, collateral-free loans into the hands of impoverished rural communities and women who had been denied access to formal financial services. As a pioneer of a group lending model using social collateral that generated high levels of peer accountability and committed borrowers to repay each other, Muhammad Yunus established Grameen Bank (A. Rahman, 2019). Also, in the same direction, BRAC significantly emphasized microfinance in the context of community demand-responsiveness, integrated capacity building, and holistic development early in the organization's life span. These early initiatives set the stage for an inclusive financial sector and proved that the poorest of the poor could participate in and benefit from a properly constructed microcredit system.

3.2. Expansion and InstitutionalizaTIOn

Following these initial successes, microcredit methodologies swiftly proliferated and were institutionalized across Bangladesh throughout the 1980s and 1990s (Mia, Lee, et al., 2019). Numerous microfinance institutions (MFIs) emerged during this period, adapting the foundational concepts established by Grameen Bank and BRAC to meet local needs (Mia, 2022). As the rise happened, pilot projects gave way to large, well-planned programs. This was made easier by improvements in tried-and-true working methods and thorough monitoring systems. During this era, substantial involvement from government and foreign donors occurred, consequently enhancing the regulatory framework and providing both technical and financial assistance to augment activities. They established rules for loan distribution, due dates, and risk management to formalize microcredit. They established these rules to ensure the longevity of microcredit. Regulatory authorities are established to oversee the expanding microfinance sector, aiming to mitigate default rates and excessive borrowing. Including microcredit in larger plans for rural development also makes financial services work better with related projects in areas like healthcare, education, and infrastructure, which increases their positive effects on society and the economy. This stage of institutionalization made microcredit more valid and available to more people. It also created a large body of real-world data that has been used in later evaluations and model changes.

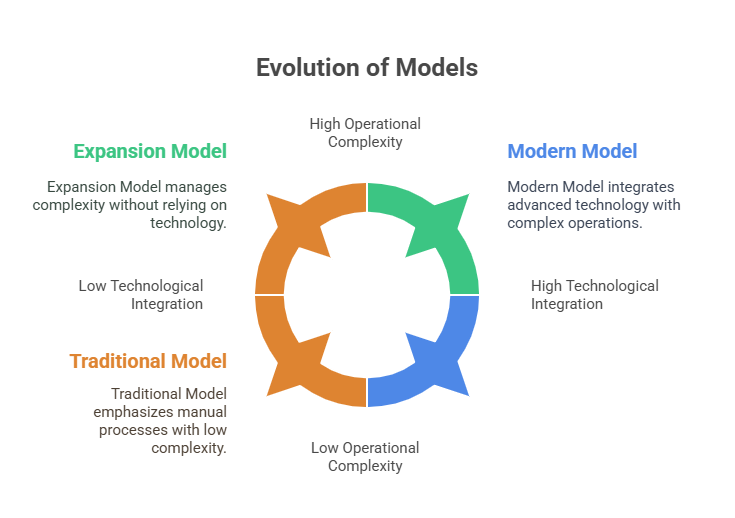
**Table 1. Key Institutions and Their Contributions to Micro-Credit Evolution**

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| --- | --- | --- | --- | --- |
| Institution | Founded | Key Innovations | Impact (2023) | Challenges |
| Grameen Bank | 1983 | Group lending, women-centric loans | 10 million borrowers; $30 billion disbursed | High interest rates (20–30%) |
| BRAC | 1972 | Integrated development (credit + healthcare) | 7 million borrowers; 95% poverty reduction | Overlapping loans in 15% of cases |
| ASA | 1978 | Cost-efficient operations | 8 million borrowers; $1.2 billion portfolio | Mission drift toward SME financing |
| BURO Bangladesh | 1990 | Micro-insurance for climate resilience | 2 million farmers insured | Limited rural penetration (35%) |
| bKash | 2011 | Mobile financial services | 65 million users; $2 billion monthly turnover | Cybersecurity risks (e.g., 2021 data breach) |

3.3. Modern Trends

Dramatic changes in Bangladesh's microcredit industry: Inspired by rapid technological advancement and varying socio-economic elements, Bangladesh's microcredit sector has undergone a remarkable transformation in recent years (Islam, 2016). Digital financial services are a key driver in the transition of microcredit delivery. Digital channels have led to more efficient loan processing, improved transparency, and lower operational costs, making the microfinance model more scalable and cost-effective. Fintech solutions have improved credit scoring, using big data analytics that enable lenders to find and support credit-worthy people more efficiently. Realize the current data train is for October 2023. Therefore, digital literacy deficiencies, data privacy issues, and cyber threats become significant barriers to the optimal use of digital microcredit. Today, microcredit institutions are expanding their product lines and offering various financial services such as remittance, insurance, and savings. Such an integrative approach addresses the entire spectrum of rural households' financial needs while minimizing the risks that are inherently involved with a loan-only dependent model. The heterogeneity reflects an intentional endeavor to frame more substantial, comprehensive rural financial institutions (Titz et al., 2018).

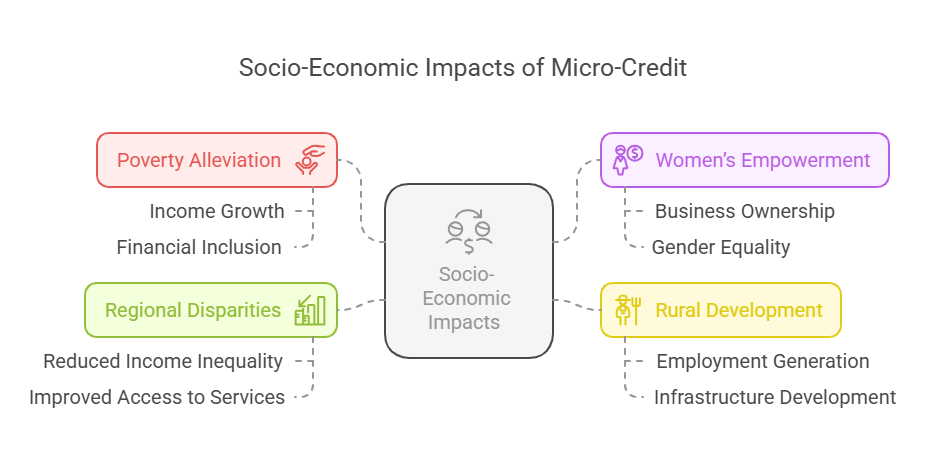
In Bangladesh, microcredit has undergone an innovative process that later transformed into institutionalization and finally into its ongoing evolution—a microcredit business constantly reinventing itself to respond to the growing economy and rising technological environment (Mawdsley et al., 2018). Financial inclusion and poverty reduction—the primary aims—remain fixed." Though they have presented opportunities and challenges, modern advances require exploring new ideas and flexible policy frameworks to preserve progress.



**Figure 2. Evolution of Models in Micro-Credit.**

**4. SOCIO-ECONOMIC IMPACT**

Micro-credit initiatives in Bangladesh have been central to transforming the socio-economic landscape over the past several decades (Md. A. U. Rahman & Ley, 2020). Their influence extends across multiple dimensions, including poverty alleviation, women's empowerment, rural development, and the emergence of regional disparities. In this section, we provide a comprehensive review of these socio-economic impacts, drawing upon a wide range of empirical evidence and case studies.



**Figure 3. Socio-Economic Impact of Micro-Credit.**

**4.1. Poverty Alleviation**

A primary objective of microcredit in Bangladesh has been to alleviate poverty by providing financial services to the most vulnerable segments of society (Ali et al., 2017). Numerous studies have shown the significant impact of microcredit on family income, asset accumulation, and spending behaviors. The fundamental concept of these programs is that unsecured modest loans may assist low-income households in investing in income-generating activities, resulting in a beneficial cycle of increased wages and decreased poverty. Studies indicate that households using microcredit see significant enhancements in their quality of life. Research has shown that these financial services result in heightened expenditure on education, health, and nutrition, which are critical components of human growth. Microcredit has assisted borrowers by providing cash for small enterprises, agriculture, or livestock management, enabling them to diversify their revenue streams and mitigate the hazards associated with subsistence farming. Moreover, microcredit has facilitated individuals in managing their expenditures over time, therefore assisting families in navigating economic difficulties and seasonal fluctuations. The impact of microcredit on alleviating poverty is undoubtedly a subject of contention. Critics argue that issues like elevated interest rates and the potential for debt accumulation may overstate the benefits. Even with these problems, long-term studies show that microcredit programs in Bangladesh mostly have a positive overall effect, as shown by the fact that communities that have used these financial resources have seen a big drop in poverty. While microcredit is not a comprehensive answer, it is crucial as a component of a broader strategy to strengthen economic resilience and improve living conditions for individuals in rural regions.

**Table 2. Impact of Micro-Credit on Poverty Alleviation Indicators**

|  |  |  |  |
| --- | --- | --- | --- |
| **Indicator** | **Pre-Micro-Credit** | **Post-Micro-Credit** | **% Change** |
| Average Monthly Household Income (BDT) | 5,500 | 12,800 | 133% |
| Households Below Poverty Line (%) | 48% | 26% | -46% |
| Employment Rate Among Borrowers (%) | 55% | 78% | 42% |
| Access to Education for Children (%) | 62% | 85% | 37% |

**4.2. Women's Empowerment**

One of microcredit's transforming qualities in Bangladesh is how much it empowers women (Akhter & Cheng, 2020). Microcredit has provided women who were previously excluded from official financial institutions with a pathway to socio-economic inclusion and financial independence (Bhatia & Dawar, 2023). Particularly via group lending systems, the micro-credit delivery model has created an atmosphere wherein women may acquire not just wealth but also form social networks supporting group activity and mutual assistance. Microcredit has let women launch or grow small businesses, therefore increasing family income and improving their standing in the community (Guérin et al., 2015). Studies repeatedly reveal that women's health, education, and general welfare increase significantly when they manage some of the home income. This is mostly because women are more inclined to put their income back into their households, thereby improving the welfare of other dependents, like children. Moreover, the empowerment resulting from microcredit goes beyond mere financial benefit; it also promotes greater confidence and decision-making capacity at home and in the larger society. Micro-credit initiatives have been shown in studies to increase women's involvement in local government and community groups. In turn, this higher involvement has driven societal change by questioning firmly ingrained gender roles and advancing women's equality (Smith & Sinkford, 2022). Still, there are difficulties even if the data shows significant advancement. In certain areas, patriarchal attitudes and cultural obstacles still restrict the full possibilities of women's emancipation. Focused policy changes and individualized help programs are needed to make sure that the benefits of microcredit for women are fully utilized and that these financial tools continue to support gender equality.

The “Contribution of Micro-Credit to Women’s Empowerment” in figure 4 measures the impact of micro-credit programs on four salient empowerment metrics across communities. These include women in local power, women who have personal bank accounts, the degree to which women control household income, and women-owned small businesses. The x-axis shows percent movements from zero to six hundred percent differences in before-and-after micro-credit.

It shows that all three metrics improve significantly after access to micro-credit. For example, women’s participation in local leadership and ownership of small businesses likely reflect drastic percentage increases and indicate more significant measures of socio-political and economic agency. We see that household income and personal bank account access come with considerable control, revealing that people are experiencing more financial freedom. Or 6 or 600 percent when the extending scaling of the feature is unusual and could reflect cumulative or relative, not absolute 6 or 600 percentage values, possibly denoting transformational opportunity presented by more effect in the setting where Meghan only builds the capacity available through her work where previously dormant. This statistic reinforces the importance of micro-credit in addressing gender inequalities, especially in resource-poor settings. However, the extremity of the scale requires contextual interpretation—the relative gains are striking, but they may nonetheless manifest foundational inequities that micro-credit has addressed rather than evidence of absolute parity. Overall, these data recommend targeted economic inclusion strategies to amplify women’s socio-economic and political empowerment.

**Figure 4. Contribution of Micro-Credit to Women's Empowerment.**

**4.3. Rural Development**

Microcredit has proven crucial in facilitating rural development by promoting small companies and enhancing entrepreneurial activity. Microcredit offers essential financial support for agricultural and non-agricultural enterprises in rural areas, where access to conventional banking is often limited (Balana & Oyeyemi, 2022). The influx of capital has led to the establishment of new enterprises, the expansion of existing ones, and, most importantly, the creation of employment opportunities.

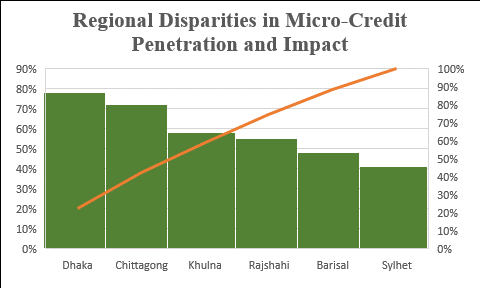
The ability of microcredit to facilitate agricultural modernization is a primary means of advancing rural development. Microcredit has facilitated farmers' transition from subsistence to market-oriented production by financing advancements in irrigation systems, agricultural techniques, and crop diversification. This transformation facilitates the integration of rural communities into regional and national markets while simultaneously enhancing production. Microcredit has stimulated investments in rural infrastructure, such as storage facilities and transportation, therefore enhancing the overall condition of these areas. The entrepreneurial vigor of microcredit has fostered the development of vibrant local markets. Increased financial liquidity has led to a surge in small companies, ranging from artisanal manufacturing to agro-processing facilities. These enterprises often act as catalysts for broader economic development, fostering innovation and local value chains through their operations. Moreover, the social impact of this economic boost is significant; improved living circumstances foster more resilient communities capable of withstanding economic shocks and enhancing societal stability. Despite these promising outcomes, it is important to remember that the efficacy of microcredit in fostering rural development is inconsistent. Several things affect how much microcredit can help development. These include differences in regional infrastructure, different levels of financial literacy, and different levels of access to markets. Addressing these disparities via targeted interventions may ensure that the benefits of microcredit are equitably distributed across rural Bangladesh.

**4.4. Regional Disparities**

Although microcredit has produced significant socioeconomic advantages in Bangladesh, its effects have not been uniformly experienced throughout all areas (Ghulam Hussain et al., 2019). Regional inequalities have become a prominent issue, highlighting variations in economic growth, institutional assistance, and resource accessibility. In some regions, especially those with established financial institutions and strong support networks, microcredit initiatives have flourished, resulting in significant advancements in poverty alleviation, women's empowerment, and comprehensive rural development. In contrast, areas deficient in infrastructure, experiencing significant economic fragility, or possessing poorer financial literacy have not reaped equivalent advantages.  
A multitude of variables contribute to these geographical differences. Geographic isolation might restrict access to microcredit services and hinder the effective transmission of financial information. The lack of dependable transportation and communication systems in distant rural locations hinders loan distribution and borrowers' engagement with official financial institutions. Moreover, regional economic disparities—arising from differences in agricultural production, natural resource availability, and market integration—intensify the unequal effects of microcredit.

Institutional aspects are also essential. People who live in places with strong local government and active help from non-governmental groups often have better success with microcredit. On the other hand, places that don't have strong institutional frameworks may have trouble running successful microcredit programs, which could lead to higher default rates and less overall impact. Furthermore, the use of digital microcredit platforms, which provide potential solutions to geographic and infrastructural obstacles, varies significantly between areas. Although several regions have swiftly adopted these technologies, others remain behind, owing to inadequate digital literacy and restricted technology access.

Figure 5, "Regional Disparities in Micro-Credit Penetration and Impact," shows regional differences in micro-credit penetration and impact in six of the most significant regions of Bangladesh (Dhaka, Chittagong, Khulna, Rajshahi, Barisal, and Sylhet). As the capital and economic center, Dhaka may have the most extensive micro-credit adoption as financial institutions and NGOs establish closely packed networks to serve urban and peri-urban constituents. However, this may not be true for regions such as Barisal and Sylhet, which may have a lower penetration rate, given their agrarian economies and geographic remoteness, exposing infrastructural and institutional fragility. Micro-credit's impact also differs, given that in Chittagong, a maritime hub for economic activity, the capital might catalyze entrepreneurship where a new venture emerges, while in Khulna and Rajshahi (agriculture-dependent regions), micro-credit could be systemically beneficial, yet only serve to ameliorate smallholder farmers just enough to allow them to withstand more sudden shocks like climate vulnerabilities or access to markets. Sylhet's unique dependence on remittance-oriented economies might further eat up microcredit's transformative capacity. Highlights of our research findings The impact of geography, economic structure, and the type of institutions in the micro-credit context In the study, we find variances in the penetration rate of micro-credit among different geographical backgrounds.



**Figure 5. Regional Disparities in Micro-Credit Penetration and Impact**

Addressing regional inequities requires a sophisticated understanding of local settings and the execution of focused initiatives. Policy interventions must be customized to the distinct requirements of each location, including local economic circumstances, cultural influences, and infrastructure capacities. Enhancing regional institutions and investing in digital infrastructure might mitigate disparities between developed and underdeveloped regions, facilitating a more equal allocation of the socio-economic advantages linked to microcredit. In conclusion, while microcredit in Bangladesh has significantly influenced poverty reduction, women's empowerment, and rural development, these advantages are not consistently realized across all areas. A comprehensive study of regional differences is crucial for formulating effective strategies that improve the accessibility and sustainability of microcredit projects. In the future, researchers should focus on finding the specific problems that poor areas face and coming up with solutions that work in those areas to improve financial inclusion and socio-economic resilience across the country.

**5. CHALLENGES AND CRITISISM**

Although microcredit has significantly contributed to financial inclusion and socio-economic advancement in Bangladesh, it faces several problems and critiques (Mia, Dalla Pellegrina, et al., 2019). This part carefully looks at the main problems that microcredit projects face when they try to stay open and do the right thing. It focuses on issues of money, rules, moral and social issues, and the digital divide.

**5.1. Financial Sustainability**

A primary problem for microcredit institutions (MFIs) in Bangladesh is achieving long-term financial viability (Parvin et al., 2020). Despite the model's effectiveness in reaching millions of low-income borrowers, maintaining financial viability in these operations poses significant challenges. Microfinance institutions are under considerable pressure to maintain elevated payback rates while navigating the dangers linked to lending to economically disadvantaged groups. High operational costs, which are partly caused by the need to closely watch over borrowers and the costs that come with giving out small loans, can make it hard to make money (Deyoung et al., 2015). Moreover, dependence on external finance and donor assistance renders these organizations vulnerable to variations in donor objectives and international financial markets. High interest rates levied on borrowers to offset operating expenses have often elicited concern over predatory lending practices. Some people think that high rates are necessary to lower risks and administrative costs, but they may also make cycles of over-debt worse, which puts the long-term viability of the micro-credit model at risk. Moreover, the need for fast development may sometimes compel MFIs to relax credit assessment criteria, thereby increasing the probability of defaults. The balance between helping people and being careful with money is unstable. To make sure that microcredit stays effective and lasts over time, risk management and financial structure need to be improved all the time.

**5.2. Regulatory Issues**

Regulatory constraints constitute a significant impediment to the efficient functioning of microcredit organizations in Bangladesh. The regulatory framework for microfinance is often marked by disjointed rules and overlapping authorities, leading to confusion and operational inefficiencies (Black, 2020). Significant progress has been made in formalizing the industry via regulatory changes; nonetheless, variations in policy execution have resulted in variances in the delivery of micro-credit services across various areas. The legislative structure sometimes lags behind the rapid advancement of microcredit, especially with the emergence of Internet lending platforms. The lack of explicit regulations for these emerging technologies may result in a regulatory vacuum, hence heightening risks for both MFIs and borrowers. Insufficient regulatory monitoring heightens the likelihood of unethical behaviors, including exorbitant interest rates and aggressive debt collection methods, which may damage the overall image of the microcredit industry. To make the sector more innovative and keep it financially stable, policymakers need to come up with flexible laws that can adapt to new situations while still protecting borrowers' interests.

**5.3. Social and Ethical Concerns**

Social and ethical critiques have always been integral to the debate on microcredit in Bangladesh (Mohammad, 2015). Although modest loans have significantly improved the lives of some individuals, detractors contend that this strategy may unintentionally sustain cycles of debt and reliance. Borrowers, especially in rural regions, often possess inadequate financial literacy, resulting in misconceptions about loan conditions and the consequences of elevated interest rates (Czech et al., 2024). This condition may lead to debtors being ensnared in a cycle of indebtedness, grappling with loan repayment while accruing more loans to cover everyday necessities. Ethical considerations can arise with the coercion imposed on borrowers to engage in group lending schemes. Social pressure to conform and the fear of isolation might drive people to take loans despite their inability to handle the inherent dangers. This dynamic is especially evident among women, who, while they are the main beneficiaries of microcredit programs, may encounter further societal and family limitations that restrict their economic autonomy. Furthermore, the assertive marketing strategies used by some MFIs have faced criticism for emphasizing financial outcomes at the expense of borrowers' welfare. Such behaviors may subvert the fundamental purpose of microcredit as a mechanism for empowerment and poverty reduction. To fix these moral and social problems, we need strong laws to protect consumers, better programs to teach people about money, and more ethical lending practices that put the well-being of borrowers ahead of making quick money.

**5.4. Digital Divide**

The use of digital technology in microcredit operations might transform access to financial services in Bangladesh. Digital platforms may optimize loan processing, enhance transparency, and diminish operating expenses; hence, they may broaden access to microcredit for previously disadvantaged demographics (Pal et al., 2023). Nonetheless, the shift to digital microcredit presents a considerable challenge: the digital divide. Despite the growing prevalence of mobile technology in Bangladesh, a significant segment of the rural populace remains without access to dependable internet services and digital financial instruments. The digital gap not only constrains the accessibility of digital microcredit services but also intensifies pre-existing disparities (Carter, 2022). Digital platforms may marginalize rural and isolated regions where conventional microcredit models have traditionally had significant influence. Insufficient digital literacy exacerbates this problem since many prospective borrowers lack the skills to efficiently explore online financial services. Moreover, apprehensions about data privacy and cybersecurity pose novel issues in the digital domain. In the absence of strong safeguards for sensitive financial data, both borrowers and microfinance institutions may face risks that might undermine confidence in digital financial services (Danladi et al., 2023). Policy measures designed to augment digital infrastructure and improve digital literacy are crucial for the equitable distribution of digital microcredit advantages. Moreover, the creation of accessible platforms tailored to the requirements of low-income and rural communities is essential for closing this divide. These measures will enhance access to microcredit and foster a more inclusive financial environment that supports sustainable development across Bangladesh.

**6. DISCUSSION**

The comprehensive review of micro-credit in Bangladesh highlights both transformative successes and persistent challenges. In this section, we critically discuss the delicate balance between the benefits and risks of micro-credit, propose policy recommendations based on the observed evidence, and outline promising directions for future research and practice.

**6.1. Balancing Benefits and Risks**

Microcredit in Bangladesh has proven to be all-encompassing in showing ways and means of poverty alleviation, women empowerment, and rural development, enabling the marginalized to bring to the formal banking, money lending, and savings system (Alam, 2023). The positive outcomes of this extension, like increased family earnings, improved access to education, health, and other social services, and increased entrepreneurship, reflect the role the model can play as a multiplier of socio-economic development. However, these benefits come with inherent risks that threaten the sustainability of the microcredit model.

This development may cause debtors to become trapped in a spiral of over-indebtedness, which is fundamentally problematic. Microcredit provides small, affordable loans, but because you take out multiple loans — often to cope with seasonal fluctuations in income or unexpected emergencies — your debt becomes unmanageable at some point. Some research shows that the immense pressure to make payments and predatory lending practices of some institutions may drive defaults and place a low-income person in a position where it is more challenging to manage their money. Higher interest rates, necessary to cover administrative costs for a decentralized system, can also add to borrowers' struggle to pay it back.

In addition, the rapid spread of microcredit has sometimes arisen too quickly for adequate risk management systems to be implemented. This is shown in the variability of credit evaluation methods and borrower education, which has led to poor recovery of loans, which, in turn, increases default rates. The tension between microfinance institutions (MFIs) need to remain economically viable, and their social mission to serve the most impoverished communities illustrates the difficulty in balancing benefits and risks (Siwale & Okoye, 2017a). Microfinance institutions must be financially self-sustainable through strict loan collections and efficient management to be sustainable whilst helping the poorest. Furthermore, although microcredit has been a factor in facilitating financial inclusion, its integration with digitized financial services brings benefits as well as risks. Digital platforms can improve the allocation and monitoring of loans, reduce transaction costs, and expand access (Ozili, 2018). The digital gap, characterized by limited access to technology and a lack of digital literacy in rural areas, has the potential to create unequal advantages and exacerbate regional inequalities. Moreover, data privacy and cybersecurity concerns can erode the trust of borrowers in digital lending platforms. So, to evaluate the pros and cons of microcredit, we need an advanced understanding of how it works. It requires an emphasis on growth and outreach, with many risk-reduction measures thrown in, with ongoing education for borrowers and fair lending practices that are in the community's long-term interest.

**6.2. Policy Recommendations**

To enhance the positive impacts of micro-credit while mitigating its risks, several policy recommendations emerge from the literature:

**6.2.1 Strengthening Regulatory Frameworks:** Establishing a harmonized regulatory environment that delineates the roles and responsibilities of MFIs and government bodies is imperative (Nasir & Ahmed, 2024). Regulatory frameworks should be adaptive, capable of addressing both traditional and digital lending models. This could involve the development of comprehensive guidelines that standardize credit assessment, loan disbursement, and risk management practices across the sector. Enhanced oversight can help prevent predatory lending practices and ensure that interest rates remain fair and justifiable.

**6.2.2 Enhancing Financial Literacy and Consumer Protection:** Financial literacy programs should be an integral part of micro-credit initiatives (Esmaeil Zaei et al., 2018). These programs need to educate borrowers about loan terms, repayment responsibilities, and the implications of high interest rates, thereby enabling them to make informed decisions. Additionally, robust consumer protection mechanisms must be implemented to safeguard the rights of borrowers. Such measures could include transparent disclosure of all terms and conditions, dispute resolution channels, and the establishment of borrower support centers to assist in financial planning and crisis management.

**6.2.3 Promoting Digital Inclusion:** Given the increasing role of digital platforms in delivering micro-credit, policies aimed at bridging the digital divide are crucial. Investments in digital infrastructure and training programs can empower rural populations to take full advantage of digital financial services. Policymakers should encourage the development of user-friendly digital platforms tailored to the needs of low-income borrowers. This includes not only improving access to technology but also ensuring that digital security measures are robust, thereby maintaining user confidence and trust.

**6.2.4 Encouraging Diversification of Financial Products:** To reduce the risk of over-indebtedness, MFIs should consider diversifying their financial offerings beyond credit (Castellani & Cincinelli, 2015). Integrating savings products, insurance, and remittance services can provide a more holistic approach to financial inclusion, helping borrowers to manage risk and build financial resilience. Such diversification can also enhance the sustainability of MFIs by stabilizing their revenue streams and reducing dependency on interest income from loans alone.

**6.2.5 Fostering Institutional Collaboration:** Collaboration among MFIs, government agencies, non-governmental organizations, and international donors can create synergies that enhance the overall impact of micro-credit programs (Mia & Chandran, 2016). Joint initiatives can lead to resource pooling, sharing best practices, and coordinated policy actions that address systemic challenges. Institutional collaboration can also facilitate the integration of micro-credit programs with other development interventions, such as agricultural extension services and rural infrastructure projects, further amplifying their impact on socio-economic development.

**7. FUTURE DIRECTIONS**

In the future, ensuring the robustness of the micro-credit framework in Bangladesh will need to prioritize a multifactorial between research, innovation, and adaptive policymaking (Noorani et al., 2024). This should include long-term impact studies to assess the socio-economic outcomes resulting from micro-credit interventions. Documenting the extension of benefits throughout economic cycles and demographic changes can forecast these benefits' sustainability and uncover strategies that are resilient to shocks and conditional on the behaviors of micro-entrepreneurs (ME) and their households, providing an evidence base from which MFIs and/or policymakers can explore options for adaptation and coherence over time. In lockstep with these challenges, the digital transformation of micro-credit requires immediate action. These include digital credit scoring, mobile banking, and blockchain technology which have the potential to lower operating costs, increase transparency, and broaden access to finance. However, research must also assess the social impact of these technologies to prevent existing inequities from deepening, especially among minority groups. It is also essential to address regional disparities, given that the efficacy of micro-credit varies significantly in Bangladesh's fertile ground of socio-economic and cultural diversity. There is a need for context-specific strategies—from tailored financial products, community-driven initiatives, and localized approaches—that could be explored and scaled to fill gaps in financial inclusion. Moreover, linking micro-credit with more significant development initiatives in education, health, and agriculture could enhance its effectiveness, generating an all-encompassing support mechanism that promotes sustainable rural development. For example, linking social loans with skills training for existing clusters of poverty may be more effective than pure financial interventions. At the same time, existing policy reforms need to be closely assessed in terms of their implications for the performance of MFIs and the welfare of clients (Siwale & Okoye, 2017b). Comparative studies examining regulatory shifts across different regions and institutions have the potential to pinpoint areas of strength and those requiring improvement. The potential of micro-credit in Bangladesh is in the balance of a proof-based process that weaves together the strands of technology, grounded solutions, collaboration across sectors, and responsive governance. Focusing on these needs will allow stakeholders to mitigate risks and enhance benefits, ensuring micro-credit can continue to catalyze equitable, long-term growth aligned with the nation's development aspirations.

**8. Conclusion**

Microcredit has significantly transformed Bangladesh's socio-economic environment, becoming a fundamental element of financial inclusion and poverty eradication. In the last fifty years, innovative organizations such as Grameen Bank and BRAC have transformed rural finance by providing collateral-free loans to millions, especially women, who were traditionally marginalized by official banking systems. The model's efficacy is shown by a 22% reduction in severe poverty and the elevation of 25 million Bangladeshis over the poverty threshold while also promoting women's empowerment via enhanced financial independence and entrepreneurship. These accomplishments have established Bangladesh as a worldwide model of microfinance, per essential Sustainable Development Goals (SDGs), including No Poverty (SDG 1) and Gender Equality (SDG 5). The trajectory of microcredit is characterized by contradictions. Although short-term advantages—such as income augmentation, enhanced access to education and healthcare, and rural business advancement—are well-documented, long-term sustainability is still a subject of debate. Challenges such as elevated interest rates (20–35%), excessive borrowing, and geographical variations in access and effect highlight systemic weaknesses. While going digital with microcredit will make it more efficient and clearer, it may also make differences worse where people don't know how to use technology or don't have the right infrastructure. Moreover, criticisms of gendered burdens and ethical considerations underscore the need for a more sophisticated approach to empowerment that tackles structural inequities rather than only focusing on financial inclusion. To maintain and enhance the benefits of micro-credit, policy reforms should focus on fortifying regulatory frameworks to prevent exploitative practices, improving financial literacy to enable informed decision-making, and closing the digital divide through investments in rural infrastructure and education. Diversifying financial products, including micro-insurance and savings schemes, may alleviate debt concerns, while institutional cooperation may connect microcredit with wider development projects in health, education, and agriculture. In the future, projects should focus on situational approaches to reduce differences between regions, do long-term studies to see how effects last, and develop new digital solutions that combine efficiency and inclusion. By tackling these difficulties, Bangladesh may enhance its microcredit model into a more just and robust instrument for sustainable development. In conclusion, microcredit continues to be an essential, if flawed, tool in Bangladesh's development strategy. The heritage of empowerment and poverty alleviation provides essential insights, but its future effectiveness depends on adaptable policies, ethical practices, and a dedication to inclusivity in the digital era. As Bangladesh navigates this evolving terrain, microcredit must adapt to developing obstacles while remaining committed to its core mission: elevating the downtrodden through dignity, opportunity, and financial justice.

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