

Volume 06, Issue 04, 2025 / Open Access / ISSN: 2582-6832

## The Extent of Utilization of Mobile Banking in Rural Community: Basis for Adoption to Strengthen Financial Inclusion

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Abstract— The study assessed the extent of utilization of mobile banking in rural Gubat, Sorsogon, and used results as a basis to encourage residents to adopt the said technology, thereby strengthening financial inclusion. This study employed the descriptive quantitative research design. Adult residents of rural Gubat, Sorsogon, who own a smartphone, served as respondents using a combination of convenience and stratified sampling methods. Survey questionnaire and checklists through Google Forms were used as the primary methods of getting data from the samples. The links for the forms were disseminated to qualified respondents. Likewise, an interview was utilized to verify the information. The most common mobile banking products and services available for the rural population include fund transfers, balance inquiries, bill payments, phone top-ups, and investments. The advantages of mobile banking relative to financial inclusion as perceived by the rural population are ease of access, lower travel expenses, quicker and less expensive transactions, improved financial management, and security. The main barriers to the adoption of mobile banking include lack of awareness, lack of internet connectivity, imposition of charges, and technological problems. The use of mobile banking in rural populations can be encouraged by initiatives like user-friendly apps, awareness campaigns, discounted plans, and local language services.

*Keywords* — mobile banking, rural community, financial inclusion, digital banking.

#### I. INTRODUCTION

In recent years, the way people obtain financial services has dramatically changed due to the widespread use of mobile technologies. The banking industry started providing mobile banking services as a result of the introduction of mobile phones. This saves consumers time, money, and effort by enabling them to settle their banking transactions conveniently.

Mobile banking has made it possible for clients to engage in transactions anytime and anywhere, without having to go to the actual bank. It helps make simple and fast transfers of funds across accounts within a bank as well as those outside the institution, often with lower charges than traditional methods. The freedom is particularly important for busy individuals and those living in distant areas. Mobile banking enables people to access their money immediately and this saves time and cuts transportation costs. This also helps avoid long queues that are usually experienced in physical banks. Additionally, the customers can use mobile applications to pay bills including utility payments, and manage subscriptions such as streaming services, newspapers, and magazines among other monthly financial responsibilities hence ensuring timely payments.

Even in developing nations, the financial services and mobile banking sectors have advanced significantly.

Creating a bank account is relatively simple for the majority of people living in developing country cities. Several channels of banking services, including ATM, internet, and mobile banking, are now standard for banks to offer. That way, those who have access to these channels can use services like online bill payment, money transfers, online shopping, balance inquiry, and reloading. However, despite these advancements, a sizable portion of the population in developing nations remains unbanked, particularly in rural areas where access to financial services is limited (World Bank, 2021).

Vulnerable people, low-income earners, jobless, and particularly those living in isolated rural areas across the globe may find it difficult to obtain mainstream financial services. The viability and cost of keeping physical branches in these places is the key problem. The high operating expenses and tiny, scattered client base of rural regions make it economically unfeasible for financial institutions to maintain branches there. These issues are made worse by rural inhabitants' lack of access to transportation and geographic isolation, which makes it harder for them to use financial services when they do exist. As a result, these neighborhoods continue to be neglected and cut off from the banking industry.



Among the most notable developments in this regard has been mobile banking, which has shown to be an effective instrument for advancing financial inclusion, especially in developing nations. The availability and equality of possibilities to receive financial services or financial inclusion, is a crucial component in diminishing poverty, promoting economic development, and enhancing the general well-being of people, particularly those residing in disadvantaged areas.

In Sub-Saharan Africa, for instance, the financial landscape was changed by the introduction of mobile banking, allowing the masses who could not access any financial services to benefit from them at last. Mbiti and Weil (2016) showed that the mobile payments service M-PESA launched in Kenya helped lower transaction costs and made it safer to deal with the previously unbanked people's services, letting mobile banking narrow the exclusion gap. In the same way, in South Asia, Ahmed and Hussain (2021) examined mobile banking in Pakistan and assessed its merit for bringing the unbanked population in general, and, poor farmers in particular, into the financing system and thus enabling them economically and socially.

Bangladesh serves as an additional example of how mobile banking has revolutionized financial inclusion. Rahman and Islam (2020) examined the variables affecting the nation's adoption of mobile banking, emphasizing the technology's contribution to improving the financial well-being of the unbanked and underbanked. Similar findings were made in Latin America when Cámara and Tuesta (2017) examined the success of programs aimed at promoting mobile banking in nations including Peru, Brazil, and Mexico. Their findings show how underprivileged groups' access to financial services has been made easier by mobile banking, which has lowered economic inequality and promoted inclusive growth.

Kaur and Pathak's (2019) analysis showed, India's experience with adopting mobile banking underscores both the benefits and problems of using technology to promote financial inclusion. Mobile banking has shown to be an essential tool for reaching remote and neglected areas in India, despite acceptance difficulties. This shows how digital financial services can promote inclusive development.

This potential can be realized in the Philippines, considering that the country has the highest digital dependency in all of Asia (Telenor 2023). According to

market data by Newzoo (2023), the Philippines had almost 70 million smartphone users. Therefore, understanding the use of mobile banking in Philippine rural communities is vital in order to attain financial inclusion.

Based on the 2020 Census of Population and Housing conducted by the Philippine Statistics Authority (PSA), 46% of Filipinos reside in rural areas. The least amount of urbanization is found in Eastern Visayas, Cagayan Valley, Bicol, Ilocos Region, and the Bangsamoro Autonomous Region in Muslim Mindanao (BARMM). Given that rural areas frequently lack sufficient banking infrastructure, the sizeable population in these places raises the possibility of financial exclusion. As a result, these areas probably contain a sizable portion of the unbanked population. This emphasizes the necessity of focused financial inclusion programs to meet the particular difficulties that rural populations confront.

Furthermore, according to McKinsey and Company (2023), the Philippines had a banking penetration rate of only 56%. This is behind the Bangko Sentral ng Pilipinas' (BSP) target of 70% of adult Filipinos having a formal financial account. Although this is an improvement from a 29% banking penetration rate in 2019, the Philippines continues to have one of the lowest rates in Southeast Asia. In comparison, Thailand and Malaysia have banking penetration rates of 96% and 88% respectively. This disparity shows how difficult it is still to achieve financial inclusion in the Philippines, especially in rural regions. It also emphasizes how important it is to keep working to close this gap and provide more people access to financial services.

In the Philippines, financial authorities and the government agree that inclusive economic growth depends on financial inclusion, making it a top priority. The General Banking Law of 2000 (Republic Act No. 8791) establishes the framework for the nation's banking industry by highlighting the necessity of a reliable and effective banking system that caters to all economic sectors, including underserved and rural areas.

The Philippine Innovation Act (Republic Act No. 11293), which was passed in 2019, is a legislative addition to this framework. Its objective is to promote an innovative culture in several industries, including banking. The law promotes the creation of cutting-edge financial services and products that can reach underprivileged groups and thereby advance financial inclusion. This legislative backing is essential because it



allows the financial industry to use technology, such as mobile banking, to give underserved areas access to reasonably priced financial services.

Through its regulatory actions, the Bangko Sentral ng Pilipinas (BSP) is instrumental in promoting financial inclusion. Developed in 2015, the National Strategy for Financial Inclusion (NSFI) is a comprehensive framework with strategic goals for increasing financial access. In order to integrate rural populations into the formal financial system, it supports the creation of inclusive financial products, financial literacy initiatives, and the growth of financial access points in underserved regions (Cámara & Tuesta, 2017).

Furthermore, BSP Circular No. 1105 Series of 2020 or the Guidelines on the Establishment of Digital Banks, which provided standards for the formation and operation of digital banks in the Philippines, is one of the most significant regulatory advancements in recent years. With their online-based operations, digital banks might potentially reach underprivileged and rural communities by providing them with accessible and reasonably priced financial services.

In addition, the BSP's Digital Payments Transformation Roadmap aims at transitioning at least 50% of retail payments to digital platforms and achieving an adult population coverage in formal financial accounts by 70% by 2023. Within this framework, there will be a launch of the QR Ph system that standardizes QR code payments across different banks and e-wallets. The QR Ph is the country's QR code standard based on the Europay-Mastercard-VISA (EMV) standard, a global standard for secure payments. This program is approved by the Philippine Payments Management, Inc. (PPMI) per BSP Circular 1055. Also, it will see the Philippine identification system (PhilSys), a national ID system that simplifies access to financial services being introduced. Furthermore, there have been information dissemination campaigns about financing preparations together with the integration of finance literacy into the school curriculum for a better understanding of how the public can contribute towards the successful use of banking facilities. Thus, it is working towards an inclusive financial system that supports economic growth and poverty reduction efforts in the country.

Because of these initiatives, the movement toward financial inclusion has accelerated significantly. Among the most important tools for bringing financial services to rural areas – where traditional banking infrastructure Volume 06, Issue 04, 2025 / Open Access / ISSN: 2582-6832

is sometimes absent – is mobile banking. The municipality of Gubat, located in the province of Sorsogon, offers a compelling case study for comprehending the effects and applicability of mobile banking in rural areas.

Gubat, similar to many other rural towns in the Philippines, has long experienced difficulty obtaining official banking services. The scarcity of physical banks has made it challenging for locals to conduct fundamental financial activities like saving, paying bills, and taking out loans. Due to this lack of access, financial exclusion has continued, forcing many residents to rely on unofficial and sometimes less secure methods of handling their money.

This study examined the extent to which mobile banking is used in rural areas in the Philippines in order to determine how these technological breakthroughs are being used to improve financial inclusion. It is anticipated that the results of this study will make a substantial contribution to the body of information already available on communication and the adoption of technology, particularly mobile banking. Furthermore, research and banking institutions looking to create and execute successful plans for boosting financial inclusion and accessibility in disadvantaged areas may find value in these findings.

This study aimed to address the following key questions:
 What are the mobile banking products and services

currently available to the respondents?

2. What are the benefits of mobile banking in connection to financial inclusion as perceived by the rural population?

- 3. What are the barriers to the adoption of mobile banking in rural communities?
- 4. What possible strategies could be proposed to improve the utilization of mobile banking in rural communities?

#### II. METHODOLOGY

In order to gather precise and measurable information from the respondents, the researcher used a descriptive quantitative research design to examine the extent to which adult rural residents of Gubat, Sorsogon, use mobile banking services. services. The descriptive nature of this research provided a detailed account of the characteristics and behaviors of the target population regarding their use of mobile banking services. An interview component was included to verify and



supplement the information obtained from the survey in order to ensure the reliability and accuracy of the data.

The target respondents of the study were 46 adult residents of rural Gubat, Sorsogon, who own a smartphone. This demographic was selected because adults who are part of the workforce are more likely to benefit from financial inclusion programs, making their inclusion in the study both relevant and necessary. Furthermore, for an account holder to use mobile banking, ownership of a smartphone is needed to access a mobile banking app. The study aimed to understand how these individuals utilize mobile banking and how financial inclusion can be further strengthened within the community.

To ensure that the sample accurately represented the diverse population of rural Gubat, the study employed purposive sampling. Purposive sampling was used to deliberately select individuals who met the specific criteria of being adults, owning a smartphone, and residing in rural barangays. This approach was essential to focus on respondents who are most likely to engage with mobile banking services. To better depict the extent of utilization of mobile banking around the town, the respondents were categorized based on their locations: the downtown area (Poblacion), areas within one kilometer from downtown, and areas situated more than a kilometer from downtown. This geographic categorization helped capture potential differences in mobile banking usage due to varying levels of access to financial services and infrastructure.

#### **III. RESULTS AND DISCUSSION**

# 1. Mobile Banking Products and Services Available in Rural Community

Mobile banking apps have revolutionized the way individuals manage their finances, offering services that enhance convenience and accessibility. The researcher conducted a content analysis of the financial services offered by leading banks in the country through their mobile banking applications. The result showed five key services offered: checking account balances, transferring funds, paying bills, purchasing e-load, and investing.

Table 1: Mobile	e Banking Products and Services	
Mobile Banking Feature	Frequency	Rank
Transfer funds	22	1
Check account balance	21	2
Pay bills	17	3
Top-up mobile phone (E-load)	10	4
Invest		5
	ISSN: 2582-68	55Z

Table 1 indicates that fund transfers, ranked first, are the most frequently used mobile banking feature, mentioned by 22 respondents. Balance inquiries, also crucial for basic financial management, followed closely at second place with a frequency of 21. Bill payments, which simplify recurring financial obligations, ranked third cited by 17 respondents. Mobile phone top-ups ranked fourth with a frequency of 10, demonstrating a moderate level of use, while investment services, ranked fifth with just 3 mentions, reflect limited engagement with advanced banking functionalities. These rankings suggest that users predominantly rely on mobile banking for core financial activities like fund transfers and monitoring balances, with relatively lower adoption of features requiring higher financial literacy or trust, such as investments.

This result emphasizes how important the speed and convenience of money transfers are in rural communities. In these locations, where physical banking infrastructure is often limited, the ability to send money quickly and efficiently addresses a critical need. Similar results were discovered by Balmes (2023) among Filipino rural bank customers, highlighting that fund transfers and balance inquiries are the most often used features since they are useful for addressing everyday financial demands. Martinez and Santos (2022) noted that these services are in line with the preferences of rural customers who value basic, uncomplicated features.

Mobile banking facilitates transactions that might otherwise be hindered by geographical barriers. In rural settings, where access to traditional bank branches is often limited or non-existent, mobile fund transfers offer a vital alternative. The ease of sending money without needing to travel long distances to a bank branch is particularly advantageous. Many rural areas, similar to the locale of this study, lack adequate banking



Volume 06, Issue 04, 2025 | Open Access | ISSN: 2582-6832

infrastructure, making mobile banking an essential tool for managing financial transactions.

In addition, the ability to conduct transactions remotely eases the challenges associated with physical banking in rural areas. For residents who may live far from bank branches, traveling to access financial services can be time-consuming and costly. Mobile banking's fund transfer feature addresses these issues by providing a convenient solution for sending money without the need for physical travel. This functionality not only improves accessibility to financial services but also enhances the overall efficiency of financial transactions in rural settings.

The high utilization of fund transfers aligns with broader trends observed in financial technology research. A study by the Consultative Group to Assist the Poor (CGAP) (2019) indicated that mobile banking significantly enhances financial inclusion by offering services that were previously difficult to access in remote areas. The convenience of mobile fund transfers helps bridge the gap between rural populations and financial services, promoting greater participation in the financial system.

The second most frequently cited feature of mobile banking is checking account balances. This preference stressed the importance that rural users place on monitoring their personal finances. The ability to access account balances remotely suggests a strong need for effective financial management and budgeting, particularly in rural areas where traditional banking infrastructure is scarce.

Sharma and Ahmed (2021) observed similar trends in rural Bangladesh, where users prioritized transferring funds to family members and monitoring accounts. The high value placed on checking account balances reflects broader trends in financial behavior. Effective financial management is crucial for maintaining economic stability, and the convenience of mobile banking facilitates this process. Mobile banking platforms that offer account balance inquiries contribute significantly to financial inclusion by providing users with essential tools for managing their finances. In rural areas, where physical bank branches are often limited or absent, the ability to check account balances anytime and anywhere addresses a critical need for financial oversight.

Moreover, the convenience of mobile banking in this regard is particularly valuable for rural residents. Without access to nearby bank branches, individuals in remote areas may find it challenging to keep track of their financial status. Mobile banking enables users to stay informed about their account balances without the need for physical travel, thereby improving their ability to manage their finances effectively.

The ability to monitor account balances remotely supports better financial planning and budgeting. A study by the Consultative Group to Assist the Poor (CGAP) (2019) underscored the role of mobile banking in enhancing financial management by providing users with real-time access to their financial information. This access enables individuals to make informed decisions about their spending and saving, contributing to improved financial health.

Furthermore, the significance of balance inquiries in mobile banking is further supported by research from the Global System for Mobile Communications Association (GSMA) (2021), which emphasized that financial management tools are among the key features driving mobile banking adoption in developing regions. The ability to check account balances is a fundamental aspect of financial management, and its availability through mobile banking platforms enhances users' ability to oversee their financial activities and make timely decisions.

The data reveal that paying bills is the third most frequently utilized feature of mobile banking. This trend resonates with findings by Kumar et al. (2023), who reported that digital platforms streamline utility payments, reducing time and effort for users. This indicates that many rural residents are increasingly relying on mobile banking to manage recurring financial obligations such as utility bills, school fees, and other monthly expenses. The use of mobile banking for bill payments signifies a shift towards more formalized financial transactions, reflecting a broader trend towards digital financial management.

The convenience of mobile banking in handling bill payments is a key factor driving its popularity. By allowing users to pay bills from the comfort of their homes, mobile banking eliminates the need for physical trips to payment centers or banks, which are often located far from rural areas. This feature addresses a common challenge faced by residents in remote locations who may otherwise need to travel significant distances to make payments. The ability to manage these transactions online not only saves time but also reduces the associated costs and inconveniences of traveling.



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Additionally, studies conducted by the Consultative Group to Assist the Poor (CGAP) (2019) supported the assertion that mobile banking facilitates timely bill payments and helps mitigate risks associated with service interruptions and late fees. The study suggested that mobile banking's capacity to enable prompt bill payments is especially advantageous in rural areas where physical access to payment centers may be limited. By providing a reliable and accessible method for managing financial obligations, mobile banking enhances the financial stability and convenience for rural populations.

The transition to mobile banking for bill payments also reflects a broader movement towards digital financial practices. A report by the Global System for Mobile Communications Association (GSMA) (2021) showed that mobile banking's ability to support bill payments is a critical factor in its adoption and utility. The convenience of handling these transactions remotely contributes to improved financial management and stability, particularly in areas where traditional banking services are limited.

Furthermore, the ability to pay bills through mobile banking aligns with the findings of the World Bank (2018), which emphasized that mobile banking platforms contribute to financial inclusion by offering essential services that were previously challenging to access. The convenience of mobile bill payments supports better financial planning and management by providing users with an efficient and accessible method for fulfilling their financial obligations.

The purchase of e-load, ranked fourth with 10 responses, illustrates that mobile banking is also utilized for managing mobile phone credit. While this feature is less frequently used compared to the top three – fund transfers, checking account balances, and bill payments – it still plays a significant role in the overall functionality of mobile banking, particularly in rural areas where communication is vital.

The convenience of mobile banking for purchasing eload underscores its importance in maintaining communication, which is essential in remote locations. Research by the Global System for Mobile Communications Association (GSMA) (2021) highlighted that top-up services are a critical component of mobile banking platforms in many developing nations. The availability of mobile top-ups through banking apps ensures that users can manage their communication needs efficiently. This feature supports the broader goal of financial inclusion by providing essential services that enhance connectivity and participation in economic activities.

Despite its importance, e-load purchases rank lower than other features in this study. Several factors may contribute to this preference. For one, many rural residents still opt to buy e-load from local stores. These stores often provide promotional offers and discounts that are not available through mobile banking platforms. The ability to benefit from these promotions may make purchasing e-load from physical locations more appealing to some users.

Additionally, some mobile banking apps may not support all telecom providers, which could limit the options available for e-load purchases. This lack of support can restrict the convenience of buying top-ups through mobile banking platforms, further driving users to seek alternatives. As noted by GSMA (2021), the effectiveness of mobile banking services, including topups, is contingent on their ability to accommodate a wide range of service providers and offer competitive features.

The preference for local stores over mobile banking for e-load purchases also reflects broader consumer behaviors and market dynamics. Local stores may provide a more personalized service or immediate access to top-ups, which can be particularly valuable in rural areas where immediate needs may arise. The availability of promotions and discounts can also incentivize users to choose these physical points of sale over mobile banking options.

Finally, with only 3 respondents citing it as a frequently used option, the results indicate that investing is the least utilized feature of mobile banking. This low frequency of use suggests several underlying issues that may be contributing to the limited adoption of investment products among rural residents.

One possible explanation for the low utilization of investment features is a lack of awareness, understanding, or interest in investment products. Rural populations may not be as familiar with investment opportunities or may have limited knowledge about how to engage with these financial tools effectively. Saravanan and Kumar (2021) advocated for digital literacy initiatives to equip rural users with the knowledge needed to explore advanced financial tools. The findings of this study align with the low frequency



of investment usage, pointing to a need for targeted financial education initiatives to improve understanding and foster greater interest in investment opportunities.

Furthermore, the complexity associated with investing through mobile banking platforms could be another factor contributing to its low usage. Mobile-based investment processes can be perceived as intricate and intimidating, especially for individuals who are not well-versed in financial matters. The perception of complexity can deter users from exploring investment options available through mobile banking apps.

Trust and security concerns also play a significant role in the limited use of mobile investment features. Some users may be hesitant to invest through mobile banking apps due to worries about the security and reliability of these platforms.

Trust issues regarding the safety of financial transactions and the protection of personal information can inhibit users from engaging with investment options. Sharma et al. (2019) noted that concerns over trust and security remain significant barriers, particularly in rural areas, necessitating stronger security measures and user education campaigns.

Moreover, the low frequency of investment feature utilization highlights the need for financial institutions to address these barriers effectively.

Developing comprehensive financial education programs tailored to rural communities can enhance awareness and understanding of investment opportunities. Simplifying investment processes and ensuring robust security measures can also help build trust and encourage greater engagement with mobile banking investment features.

In conclusion, the analysis of mobile banking products and services reveals a strong focus on core functionalities, indicating their pivotal role in financial inclusion efforts, particularly in rural areas. To maximize impact, providers must address barriers to advanced feature adoption through enhanced digital literacy and trust-building initiatives. Additionally, integrating user-friendly and innovative services can further solidify mobile banking's role as a transformative tool for rural and underserved populations.

#### 2. Perceived Benefits of Mobile Banking in Connection to Financial Inclusion

In strengthening financial inclusion in rural communities through the adoption of mobile banking, it is important to know the public perception. The researcher wants to emphasize that the perception of the rural populace differs from those living in urban areas simply because of the different lifestyles and needs in terms of financial services.

Individuals in urban areas are more akin to using the more complex features of mobile banking. Investment in stocks, bonds, mutual funds, and other investment vehicles is more common in urban areas due to exposure from peers in the corporate world. People in cities are already embracing cashless transactions.

Although these financial behaviors are not expected to be observed overnight in rural communities, the latest insights must be welcomed because perception is everchanging. These insights can be used to track the progress of the interventions made in strengthening financial inclusion and to develop programs to encourage more individuals in rural areas to use mobile banking.

The proliferation of e-commerce in the banking sector has become inevitable. Having mobile banking as a subset of e-commerce under mobile commerce or mcommerce that exponentially becomes a trend in urban places, is expected to penetrate the rural community.

The table below shows the perceived benefits of mobile banking in connection to financial inclusion.

Perceived Benefits of Mobile Banking	Frequency	Rank
Ease of access to banking services	40	1
Reduced travel time	39	2
Faster transactions	36	3
Reduced cost of transactions	33	4
Improved financial management	19	5
Increased security compared to traditional methods	15	6

Table 2: Perceived Benefits of Mobile Banking in Connection to Financial Inclusion



Volume 06, Issue 04, 2025 | Open Access | ISSN: 2582-6832

Table 2 shows the practical advantages users associate with mobile banking. The most frequently cited benefit of banking services is ease of access, ranking first with a frequency of 40. It shows how mobile platforms eliminate physical barriers, allowing users to engage with banking services conveniently. This is followed by reduced travel time in second place with a frequency of 39, faster transactions in third with a frequency of 36, reduced cost of transactions in fourth with a frequency of 33, improved financial management in fifth with a frequency of 19, and increased security compared to traditional methods in sixth with a frequency of 15.

These rankings reflect the importance of convenience, efficiency, and affordability. The dominance of access and reduced travel time underscores mobile banking's ability to eliminate physical barriers, while the mention of faster and lower-cost transactions highlights the practicality of these platforms in everyday financial activities. Lower rankings for improved financial management and security indicate emerging but secondary advantages in adoption trends. These findings are supported by Martinez & Santos (2022), suggesting that mobile banking services allow Filipinos living in rural areas to participate in financial activities that were previously out of reach for them because of their remote location. Similarly, Kumar et al. (2023) observed that mobile banking promotes financial resilience in rural India, where traditional financial services are frequently unavailable.

Ease of access to banking services is the most frequently mentioned benefit, indicating that mobile banking significantly enhances the availability and convenience of banking for rural populations. The ability to access banking services more easily is especially crucial in rural areas, where physical banking infrastructure is often limited or non-existent.

The high value placed on easier access highlights the critical role of mobile banking in bridging the gap between rural residents and financial services. As noted by Mbiti & Weil (2021), mobile banking effectively addresses the challenges posed by limited physical banking infrastructure. In areas where bank branches are scarce or absent, mobile banking apps offer a viable alternative, allowing users to conduct various banking activities without the need to travel long distances. This convenience is particularly beneficial for rural communities, where access to financial services can be both challenging and costly.

In addition, the ease of access provided by mobile banking is not only a practical solution but also a transformative one. It empowers rural residents by offering them a means to manage their financial activities efficiently. Tan & Ong (2021) also emphasized that the convenience of mobile banking empowers users, particularly in Southeast Asia, where geographical barriers often limit access to traditional banks. By providing a platform for accessing banking services from anywhere, mobile banking significantly enhances financial inclusion and supports economic development in rural regions.

The ability to perform banking transactions remotely alleviates the burden of physical travel, which can be a major obstacle for individuals in rural areas. Mobile banking apps enable users to manage their finances, make payments, and transfer funds without the need to visit a bank branch. This not only saves time and reduces travel costs but also improves overall financial management and accessibility.

Reduced travel time follows closely at second emphasizing that mobile banking saves users the time and effort required to visit physical bank branches. This advantage underscores the significant impact of mobile banking in saving users both time and effort that would otherwise be spent traveling to physical bank branches. For rural populations, where traveling to the nearest bank can be particularly time-consuming and costly, this benefit is especially pronounced.

The reduction in travel time offered by mobile banking is a critical factor in enhancing convenience for rural residents. Kumar et al. (2023) reported that mobile banking in rural India reduces transaction-related expenses, including transport costs and fees associated with traditional banking channels. This not only saves considerable time but also reduces the associated costs and logistical challenges of travel. In rural areas, where access to banking services may be limited and distances to bank branches can be substantial, mobile banking provides a practical solution for managing financial activities more efficiently.

The time saved by avoiding trips to bank branches has broader implications for individuals in rural communities. With mobile banking, users can allocate their time to other productive activities, such as work, education, or family responsibilities. This improved efficiency contributes to overall productivity and quality



of life, making mobile banking a valuable tool for supporting economic and personal development.

The benefit of reduced travel time aligns with the broader trends in digital financial services. As mobile banking platforms become more integrated into daily financial practices, they offer users greater flexibility and convenience. This shift towards digital solutions reflects a growing recognition of the importance of accessibility and efficiency in financial services.

Faster transactions are perceived as a significant benefit at third rank. This advantage underscores a critical improvement over traditional banking methods, which are often characterized by slow and cumbersome processes involving long wait times and delays. The immediacy of mobile banking transactions represents a significant enhancement in financial management, especially for time-sensitive activities.

Moreover, faster transactions are a key benefit of mobile banking, providing users with a more efficient and streamlined banking experience. Mobile banking facilitates immediate processing of transactions, which is particularly important for activities that require prompt action. This capability is crucial in scenarios such as urgent fund transfers, last-minute bill payments, or quick financial adjustments. By reducing the time required to complete transactions, mobile banking improves user convenience and satisfaction.

The efficiency of mobile banking in processing transactions quickly can significantly enhance the overall user experience. Traditional banking methods often involve multiple steps and extended processing times, which can be frustrating for users who need to manage their finances promptly. Mobile banking addresses these challenges by offering a platform where transactions are executed almost instantaneously, thereby reducing delays and improving service speed.

The benefit of faster transactions also aligns with broader trends in digital financial services. As mobile banking platforms continue to evolve, they increasingly focus on improving transaction speed and efficiency. This emphasis on quick processing is a response to the growing demand for more agile and responsive financial services, reflecting a shift towards more user-centric and technology-driven banking solutions.

In the fourth rank, respondents recognized the reduced cost of transactions as a benefit of mobile banking. This advantage underscores how mobile banking can significantly lower the expenses associated with financial services compared to traditional banking methods. Traditional banking often incurs various fees and indirect costs, such as travel expenses, which can add up and make financial services more expensive for users.

One of the key advantages of mobile banking is its ability to reduce or eliminate many of these costs. De Guzman (2023) found that Filipino microentrepreneurs benefit greatly from reduced financial overheads, enabling them to allocate savings toward business growth. For rural residents, who may need to travel long distances to access banking services, these travel expenses can be a substantial burden. Mobile banking offers a cost-effective alternative by enabling users to perform transactions from their mobile devices without incurring additional travel costs.

In addition to reducing travel expenses, mobile banking also minimizes other fees associated with traditional banking methods. For example, many mobile banking platforms offer lower transaction fees compared to those charged by physical banks. This reduction in fees makes financial services more affordable and accessible, particularly for low-income and rural populations who are sensitive to transaction costs.

The cost-effectiveness of mobile banking not only benefits individual users but also has implications for broader economic development. Lower transaction costs can facilitate greater economic participation and financial engagement, as individuals are more likely to use financial services when they are affordable. This can contribute to overall economic growth and stability, particularly in areas where traditional banking services are limited.

Improved financial management ranks fifth with a frequency of 19, indicating that users appreciate the ability to manage their finances more effectively using mobile banking tools. The inclusion of features such as balance tracking, expense monitoring, and budgeting tools within mobile banking apps supports users in achieving better financial management.

Mobile banking apps often come equipped with a range of features designed to assist users in tracking their financial activities. For example, balance tracking allows users to view their account balances in real-time, helping them stay informed about their financial status. Expense monitoring tools enable users to categorize and track their spending, providing insights into their



financial habits and identifying areas where they may need to adjust their budgets. Budgeting tools help users plan their spending and savings goals, fostering a more organized approach to financial management.

Martinez & Santos (2022) proposed how mobile platforms in the Philippines offer tools such as budgeting features, helping users better track and manage their expenses. The ability to monitor expenses, set budgets, and track balances helps users maintain control over their finances, leading to greater financial stability and resilience. Effective financial management is crucial for achieving long-term financial well-being, as it enables individuals to plan for future expenses, avoid overspending, and build savings.

Additionally, the benefit of improved financial management through mobile banking aligns with broader trends in digital financial services. As mobile banking platforms continue to evolve, they increasingly focus on providing users with comprehensive tools for managing their finances. This emphasis on financial management reflects a growing recognition of the importance of financial literacy and planning in achieving economic stability and success.

Moreover, enhanced financial management capabilities contribute to overall financial inclusion by empowering users to engage more actively with their financial resources. By offering tools that support budgeting, expense tracking, and balance monitoring, mobile banking helps users develop better financial habits and make more informed decisions. This, in turn, supports greater financial well-being and contributes to the broader goal of financial inclusion. However, De Guzman (2023) noted that these tools remain underutilized, suggesting a need for further education and training to maximize their potential.

Finally, at rank 6, the respondents thought that one advantage of mobile banking over traditional methods was its greater security. While this benefit ranks lower in frequency compared to others, it remains a significant factor in the overall value of mobile banking. The incorporation of advanced security features in mobile banking apps enhances protection against fraud and theft, offering a level of security that surpasses traditional cash transactions or banking methods.

Mobile banking apps are designed with robust security measures to safeguard users' financial information and transactions. Key security features often include encryption, which protects data during transmission; biometrics, such as fingerprint or facial recognition, which provide an additional layer of authentication; and two-factor authentication (2FA), which requires users to provide a second form of verification in addition to their password. These advanced security measures are critical in reducing the risk of unauthorized access and ensuring that users' financial activities are protected from potential threats.

Tan & Ong (2021) acknowledged that while mobile banking users in Southeast Asia appreciate the encryption and authentication protocols, trust issues persist, particularly among first-time users. The assurance of secure transactions and the protection of sensitive information are essential for fostering confidence in mobile banking platforms. As users become more aware of the security features and benefits of mobile banking, they are more likely to adopt and engage with these digital financial services.

The significance of increased security as a benefit of mobile banking aligns with broader trends in financial technology. As mobile banking continues to evolve, there is a growing emphasis on improving security measures to address concerns about fraud and data breaches. This focus on security is crucial for maintaining user trust and promoting the widespread adoption of mobile banking solutions.

One of the most important tools for removing conventional obstacles to financial access is mobile banking. The primary advantages of price, efficiency, and ease of access show their worth in tackling the particular difficulties faced by rural populations. Martinez and Santos (2022) emphasized that by linking communities to the official financial system, mobile banking can revolutionize rural economies and spur economic growth.

However, despite their advantages, mobile banking platforms still need to enhance their security and financial management features. Kumar et al. (2023) suggested that targeted campaigns to raise awareness and digital literacy could close this gap and enable consumers to take full advantage of advanced capabilities. Furthermore, De Guzman (2023) proposed that mobile banking companies work with nearby communities to provide trust-inspiring security measures that are culturally appropriate.

Financial institutions should prioritize feature customization, user education, and trust-building in order to optimize the impact of mobile banking. To



address security concerns, Tan & Ong (2021) recommended improving customer service and creating user-friendly interfaces suited for low-literacy groups. With this, mobile banking's reach might be increased and its position as a pillar of financial inclusion strengthened.

In conclusion, ease of access to banking services and reduced travel time are the most highly valued benefits, highlighting the convenience factor as a key driver for adoption. Faster and more affordable transactions further support the practical advantages of mobile banking. Additionally, the potential for improved management and financial increased security underscores the broader impact on financial health and trust. However, to achieve its full potential, providers must address gaps in financial management adoption and user trust. With targeted strategies and collaborative efforts, mobile banking can continue to serve as a transformative tool for underserved populations.

#### 3. Barriers to Mobile Banking in Rural Community

All forms of technology have their share of pros and cons. Although mobile banking can be used to strengthen financial inclusion in rural areas, some drawbacks must be acknowledged to better understand the sentiments of those who are hesitant to use the technology.

Table 3 shows the barriers identified in that prevents rural populations from fully embracing mobile banking. The most prominent barriers are a lack of awareness of mobile banking services and no internet connection, both tied for the highest rank with a frequency of 16. These are followed by lack of banking transactions or infrequent use of banking services and security concerns about mobile banking, each with a frequency of 12, ranked 3.5. The next set of barriers, charges, difficulty using the app/technology, and lack of trust in mobile banking, each received a frequency of 10 and are ranked equally at sixth. Finally, preference for traditional banking methods with a frequency of 7 and not having sufficient funds to open and maintain a bank account with a frequency of 1, rank eighth and ninth, respectively.

The two most commonly mentioned barriers - a lack of awareness and an internet connection - reflect two fundamental issues: inadequate infrastructure and knowledge gaps. The internet and mobile data, which are necessary for mobile banking services, are sometimes scarce in rural locations. This emphasizes the necessity of improved connectivity and awarenessraising initiatives. Potential users might not recognize the value of mobile banking or be concerned about its security, as seen by the equally high rating of security concerns and the absence of financial transactions. Even if people are aware of mobile banking, usability and affordability are still important adoption issues, as indicated by the barriers relating to fees and the intricacy of the app or technology. The absence of adequate funds and preference for conventional banking procedures point to well-ingrained cultural practices and economic limitations that are harder to overcome.

Barriers	Frequency	Rank
Lack of awareness of mobile banking services	16	1.5
No internet connection	16	1.5
Lack of banking transactions/Don't usually use banking services	12	3.5
Security concerns about mobile banking	12	3.5
Charges	10	6
Difficulty using the app/technology	10	6
Lack of trust in mobile banking	10	6
Prefer traditional banking methods	7	8
Not having sufficient funds to open and maintain a bank account	1	9

 Table 3: Barriers to Mobile Banking Adoption in Rural Community

The top-ranking barriers, lack of awareness, and no internet connection align with findings from Ahmed and Kabir (2020), who identified technological access and information dissemination as major hurdles in rural mobile banking adoption. This suggests that many rural residents do not understand how mobile banking can benefit them. Increasing awareness through targeted educational campaigns and community outreach programs is crucial. By informing rural populations about the services available and how to use them, financial institutions can encourage greater adoption of mobile banking.



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Equally significant is the lack of internet connection. Reliable internet access is essential for mobile banking, yet many rural areas lack the necessary infrastructure. Addressing this barrier requires collaboration between the government, telecommunication companies, and financial institutions to improve internet connectivity in rural regions. Gupta & Mehta (2022) argued that the lack of reliable internet infrastructure in rural areas is a significant barrier to adopting digital financial services. Collaborative efforts between stakeholders like the government and telecommunications companies are necessary in realizing infrastructure developments.

At rank 3.5, twelve respondents indicated that they lack banking transactions or don't usually use banking services. As Agrawal & Jain (2018) pointed out, the transition from conventional to digital banking can be difficult for populations accustomed to face-to-face interactions. Implementing programs that educate communities about the benefits and safety of formal financial systems can shift the preferences of these individuals.

With the same rank, security concerns are a significant barrier, echoing findings from Sharma et al. (2019), who noted that rural populations are often skeptical about the safety of digital transactions. The fear of fraud, hacking, and data breaches can deter people from using mobile banking services. Building trust through transparency and education about security protocols can help reduce these fears.

Moreover, collaborating with local community leaders, organizations, and influential figures can help build trust. Local endorsements and testimonials can reassure community members about the reliability and safety of mobile banking services (World Bank, 2018). Finally, establishing robust customer support services and feedback mechanisms can address concerns promptly and demonstrate a commitment to customer satisfaction and security.

Charges, difficulty using the app/technology, and the lack of trust in mobile banking are next in line, each with 10 responses. These factors point to the perceived cost and complexity of mobile banking, as well as general distrust in digital financial services.

The issue of not having sufficient funds to open a bank account is particularly pertinent in low-income settings, as noted by Patel et al. (2021), who argued that mobile banking solutions need to address financial exclusion by offering lower barriers to entry. Reducing transaction costs can make mobile banking more accessible across all social classes.

On the other hand, Kaur & Singh (2019) identified the challenges of mobile banking platforms designed for low-literacy users, suggesting that technology needs to be simplified and customized for rural population. User-friendly interfaces and training programs are essential to overcoming barriers related to difficulty in using mobile banking technology.

In conclusion, addressing the barriers to mobile banking adoption among underprivileged communities requires a comprehensive and inclusive approach. Increasing awareness through targeted educational campaigns is crucial to inform rural residents about the benefits and functionalities of mobile banking. Concurrently, improving internet connectivity in rural areas is essential to ensure access to these services.

Overcoming cultural preferences for cash-based transactions and addressing security concerns through transparency and education, supported by collaborative efforts with local leaders, are also critical steps. Moreover, reducing transaction costs and enhancing technological literacy with user-friendly interfaces and training programs can further promote the widespread adoption of mobile banking. By addressing these multifaceted challenges, stakeholders can foster financial inclusion and empower rural communities with the tools necessary for economic advancement.

#### 4. Proposed Strategies to Improve the Utilization of Mobile Banking in Rural Communities Thereby Strengthening Financial Inclusion

There are different ways on how to create a strategy. In crafting public policies, it is best to consult the public to find out what they wish to be involved in. In this manner, people own responsibility for the program and work harder to accomplish the goal.

Including the public in the policy-making process encourages stakeholders to feel accountable and have a feeling of ownership. People are more likely to feel involved in the outcome when they are consulted and their perspectives are taken into consideration. Higher levels of dedication and effort toward accomplishing the program's objectives may result from this engagement.



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Table 4: Proposed Strategies to Improve the Utilization of Mobile Banking in Rural Communities Thereby Promoting
Financial Inclusion

Proposed Strategies	Frequency	Rank
Simpler and user-friendly mobile banking apps	36	1
Educational programs on mobile banking benefits and security	26	2
Free or discounted mobile data plans for banking apps	25	3
Assistance in setting up and using mobile banking	17	4
Availability of mobile banking services in the local language	15	5
Discounted fees	1	6

Table 4 shows a clear ranking of strategies to improve mobile banking utilization in rural communities. The highest-ranked strategy is simpler and user-friendly mobile banking apps, with a frequency of 36. This is followed by educational programs on mobile banking benefits and security in second place with a frequency of 26, and free or discounted mobile data plans in third with a frequency of 25. Assistance in setting up and using mobile banking ranks fourth with a frequency of 17, followed by availability of mobile banking services in the local language in fifth with a frequency of 15, and discounted fees in sixth with a frequency of 1. These strategies directly address several of the barriers identified in previous sections, such as usability, accessibility, trust, and economic constraints.

The top-ranked strategy, which calls for more straightforward and easy-to-use mobile banking apps, implies that one major barrier is the complexity of mobile banking platforms. Kaur and Singh (2019) suggested that simplifying the user interface could clear up uncertainty and increase accessibility to banking services, as a large percentage of rural communities might not be accustomed to sophisticated digital technologies. The educational programs on mobile banking benefits and security ranked second, which underscores the importance of building awareness about the safety, convenience, and potential financial benefits of mobile banking as supported by the studies of Sharma et al. (2019) and Patel et al. (2021).

The third strategy, free or discounted mobile data plans for banking apps, addresses the connectivity issues many rural users face. Gupta & Mehta (2022) proposed that offering incentives like discounted data plans would reduce the financial burden of using mobile banking services. The assistance in setting up and using mobile banking strategy reflects the challenges that users face in adopting new technologies, with support services being critical for effective adoption. Nair and Thomas (2021) alleged that the availability of mobile banking services in the local language highlighted the cultural and linguistic barriers that can affect rural users' comfort and understanding of mobile banking apps. Finally, discounted fees ranked lowest but still hold significance, as reducing transaction costs could make mobile banking more attractive to low-income populations (Adepoju et al., 2020).

Simpler and user-friendly mobile banking apps are the top strategy suggested by the respondents, indicating that usability is a critical factor in encouraging adoption. This feedback highlights the crucial role that usability plays in encouraging the adoption of mobile banking services. Complex and cluttered interfaces can significantly deter potential users, particularly those who may not be comfortable with technology or who have limited digital literacy. Simplifying app interfaces is essential for improving user experience and making mobile banking accessible to a broader audience.

The importance of simpler and user-friendly apps cannot be overstated. According to Kaur and Singh (2019), rural populations often faced significant literacy and digital literacy challenges, which can hinder their ability to navigate complex banking platforms. Simplifying app interfaces and making them more intuitive will ensure that users, especially those with lower literacy levels, can engage with mobile banking services more effectively. As noted by Saravanan & Kumar (2021), designing apps with low-literacy users in mind, using icons or simplified instructions, could boost adoption. When mobile banking apps feature intuitive navigation, clear instructions, and visual clarity, they become more manageable for users, enabling them to navigate and utilize the app's features with ease. A well-designed app ensures that users can quickly perform transactions and access necessary functions without feeling overwhelmed.

To achieve a more user-friendly design, several strategies can be employed. First, creating an intuitive navigation structure allows users to easily find and access key features. Clear instructions and labels for



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buttons and functions, avoiding technical jargon, are crucial for guiding users through various tasks. Additionally, a clean design with sufficient contrast and readable text helps users understand the app's functions better. Personalization options, where users can customize their experience, and feedback mechanisms for users to report issues or suggest improvements can further enhance usability.

Furthermore, a user-friendly app can increase adoption rates by making technology more accessible and reducing the learning curve. It enhances user experience by making interactions more enjoyable and efficient, leading to higher satisfaction and fewer frustrations. Moreover, a well-designed app can reach a more diverse audience, including those with varying levels of technological proficiency. It can also reduce support costs by minimizing user errors and misunderstandings.

Educational programs on mobile banking benefits and security rank second, underscoring the importance of awareness and education in promoting mobile banking. This feedback accentuates the significant role that awareness and education play in promoting mobile banking adoption. It reveals a considerable awareness gap that needs to be addressed to increase the effective use of mobile banking technologies.

Moreover, the emphasis on educational programs on mobile banking benefits and security is aligned with findings from Sharma et al. (2019), who stressed the importance of educating rural users about digital security measures. Ensuring that users understand how mobile banking works and how it can be safe is key to overcoming trust barriers. Tan & Ong (2021) and Gupta & Mehta (2022) also argued that raising awareness of mobile banking's role in financial empowerment and security is essential for driving adoption in rural areas. Effective education initiatives can help users understand the advantages of mobile banking, such as convenience, cost savings, and improved financial management, while also addressing any concerns related to security.

To address this awareness gap, several educational strategies can be employed. Workshops and community outreach programs can provide hands-on demonstrations and personalized guidance on using mobile banking apps. These programs can be conducted in collaboration with local community centers, schools, and other organizations to reach a broad audience. Informational campaigns, including online tutorials, brochures, and social media content, can also play a

crucial role in disseminating information about mobile banking benefits and security features.

The benefits of educational programs are substantial. They not only increase users' understanding and comfort with mobile banking but also enhance their confidence in using these technologies securely. By addressing misconceptions and providing clear information on security measures, educational initiatives can mitigate fears related to fraud and privacy breaches, thereby fostering greater trust in mobile banking services.

The proposal for free or discounted mobile data plans for using banking apps, which ranked third, received significant support. The cost of mobile data can be a substantial hurdle for many individuals in rural areas, potentially preventing them from accessing mobile banking services. According to Gupta & Mehta (2022) and Adepoju et al. (2020), offering affordable data packages for mobile banking services can help bridge the digital divide. In many rural areas, high data costs remain a significant barrier to mobile banking use. By removing or lowering these costs, service providers can make mobile banking more accessible and affordable.

In rural areas, where income levels are generally lower and access to affordable technology is limited, the cost of mobile data can represent a significant obstacle to using mobile banking apps. Free or discounted data plans could alleviate this financial strain and encourage more widespread adoption of mobile banking services. Such initiatives could be particularly impactful in regions where economic constraints limit users' ability to utilize digital financial tools effectively.

In addition, implementing discounted or free data plans for mobile banking could involve partnerships between banks and mobile service providers. By collaborating on these initiatives, banks can support their customers' access to financial services, while mobile operators can expand their user base and foster greater digital engagement. Additionally, targeted programs that provide subsidized data for banking purposes could be designed to ensure that the most underserved populations benefit from these offerings.

Moreover, lowering the cost of data for mobile banking apps can enhance financial inclusion by making these services more accessible to those with limited financial resources. It also helps to bridge the digital divide by ensuring that cost is not a barrier to participating in modern financial systems. This approach aligns with



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broader efforts to improve financial inclusion and support economic development in rural areas.

Seventeen respondents suggested that assistance in setting up and using mobile banking could enhance adoption rates, ranking fourth. This recommendation underscores the importance of support for first-time users who may find the initial setup and navigation of mobile banking apps challenging. Saravanan & Kumar (2021) claimed that rural users may struggle with setting up mobile banking accounts or using the necessary features. Providing in-person or virtual assistance to guide new users through the process could significantly increase adoption rates. This aligns with findings from Patel et al. (2021), who emphasized the importance of user support and hands-on training in overcoming technological barriers.

Many users, especially those who are new to mobile banking or technology in general, may experience difficulties during the initial stages of setup and usage. Personalized support can address these challenges by providing hands-on guidance and answering questions about the app's features and functionalities. This support can take various forms, including one-on-one assistance from customer service representatives, help from community agents who can offer localized support, or comprehensive instructional guides and tutorials that users can follow at their own pace.

Furthermore, the benefits of providing such assistance are significant. It helps users overcome the initial hurdles associated with adopting new technology, reduces the likelihood of user frustration, and increases overall satisfaction with the mobile banking experience. By ensuring that users are well-supported, banks can foster greater confidence and engagement, leading to higher adoption rates and more effective use of mobile banking services.

Implementing assistance programs can involve several approaches. Banks might establish dedicated support teams to help users with setup and troubleshooting. Community-based initiatives, such as training sessions or workshops, can be organized to provide in-person assistance and education. Additionally, creating detailed online resources, including video tutorials and step-bystep guides, can offer valuable support for users who prefer self-paced learning.

In fifth rank is the availability of mobile banking services in local languages. This recommendation emphasized a crucial factor that can significantly enhance the accessibility and usability of mobile banking apps. Language barriers can pose substantial challenges for users who do not speak English or other dominant languages commonly used in digital platforms. As Nair and Thomas (2021) and Sharma et al. (2019) noted, language barriers often hinder the adoption of digital financial services. Ensuring that apps offer local language options will increase accessibility and foster greater trust among users who may feel alienated by foreign language interfaces.

Language accessibility is a key component in ensuring that mobile banking services reach a broader audience. For many users in rural or underserved areas, local languages are the primary means of communication. When mobile banking apps are available in these languages, users are more likely to understand and effectively utilize the app's features. This can lead to increased adoption rates and more effective use of mobile banking services.

In addition, banks and financial institutions can work with local language experts to translate their apps and ensure that the translations accurately convey the intended meanings and functionalities. Additionally, providing customer support in local languages can further assist users who may have questions or need help navigating the app. It is also beneficial to include local language options in instructional materials, such as guides and tutorials, to ensure comprehensive support.

The benefits of offering mobile banking services in local languages are significant. It not only helps overcome language barriers but also demonstrates a commitment to inclusivity and customer-centered service. By making mobile banking accessible to speakers of diverse languages, financial institutions can broaden their reach, enhance user satisfaction, and contribute to greater financial inclusion.

Only 1 of the respondents suggested discounted fees as a strategy, making it to the lowest rank. This might indicate that while fees are a consideration, they are not seen as a primary barrier to adoption compared to other factors like app usability, data costs, and educational needs. However, it could also suggest that most current users may not be significantly affected by banking fees, or that other barriers are seen as more pressing.

The survey results have shown that the most critical strategy for increasing mobile banking adoption is developing simpler, more user-friendly apps, emphasizing its importance. Usability is essential to



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attract users, particularly those with limited digital literacy, and can be enhanced through intuitive navigation and clear instructions. Educational programs on mobile banking benefits and security, ranked second, are crucial for bridging the awareness gap and building trust. Additional strategies include offering free or discounted mobile data plans to mitigate financial barriers, assisting with setup and use to support users facing technological challenges, and making services available in local languages to overcome language barriers.

#### IV. CONCLUSION AND RECOMMENDATIONS

The researcher drew the following conclusions based on the summary of findings:

- 1. The common mobile banking products and services available to the respondents include fund transfer, account balance inquiry services, bill payment, mobile phone top-ups, and investing.
- 2. The benefits of mobile banking relative to financial inclusion as perceived by the respondents comprise ease of access to banking services, reduced travel time, faster transactions, reduced cost of transactions, improved financial management, and enhanced security transactions compared to traditional methods.
- 3. The common barriers to the adoption of mobile banking in rural communities include lack of awareness, no internet connection, passivity in availing of online banking services, security concerns, imposition of charges, difficulty in using the app/technology, and lack of trust in mobile banking.
- 4. Strategies such as simplified and user-friendly interfaces, educational programs and awareness campaigns, and free or discounted mobile data plans for banking apps are proposed to improve the utilization of banking in rural communities, thereby strengthening financial inclusion.

The researcher has the following recommendations:

- 1. Banking institutions and concerned government agencies, such as the BSP, be encouraged to conduct awareness campaigns on the services provided by mobile banking in rural areas.
- 2. Emphasize convenience as the primary benefit of mobile banking to encourage new users.
- 3. Financial literacy caravans be regularly conducted in rural communities to highlight the advanced features of mobile banking; targeting unbanked individuals.

- 4. Financial literacy caravans, highlighting the advanced features of mobile banking, be regularly conducted in rural areas; targeting unbanked individuals.
- 5. A simple design interface and user-friendly mobile banking application be developed to encourage more users.
- 6. Researchers are encouraged to investigate the following topics:
  - a. Best practices of banking institutions in online banking
  - b. Impact of digital literacy on mobile banking
  - c. Role of mobile banking in promoting financial inclusion

#### REFERENCES

- Adepoju, O., Fakoya, B., & Adeola, A. (2020). Cultural resistance and mobile banking adoption: Insights from rural Africa. African Journal of Banking Research, 15(1), 67-83.
- [2] Agrawal, P., & Jain, R. (2018). Socioeconomic determinants of mobile banking adoption in underserved communities. International Journal of Development Studies, 18(2), 123-139.
- [3] Ahmed, F., & Hussain, M. (2021). Impact of Mobile Banking on Financial Inclusion in Pakistan: Evidence from Rural Areas. Journal of Financial Inclusion, 5(2), 1-20.
- [4] Ahmed, T., & Kabir, S. (2020). Technological barriers to mobile banking adoption in rural areas: A study of developing economies. Journal of Financial Technology, 12(4), 345-359.
- [5] Ajzen, I., & Fishbein, M. (1980). Understanding attitudes and predicting social behavior. Psychological Review, 87(5), 187-214.
- [6] Allied Market Research. (2020). Mobile banking trends in rural Africa. Retrieved from https://www.alliedmarketresearch.com
- [7] Balmes, H. P. (2023). Sustainability of mobile banking as perceived by rural bank clients in Sta. Cruz, Laguna, Philippines. Journal of Third World Economics, 1(1), 3–6. Retrieved from https://www.researchgate.net
- [8] Bangko Sentral ng Pilipinas. (2015). National Strategy for Financial Inclusion. https://www.bsp.gov.ph/



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- Bangko Sentral ng Pilipinas. (2020). Digital Payments Transformation Roadmap. https://www.bsp.gov.ph/
- Bangko Sentral ng Pilipinas. (2021). BSP Circular No. 1105 Series of 2020 Guidelines on the Establishment of Digital Banks. https://www.bsp.gov.ph/
- [11] Bangko Sentral ng Pilipinas. (2021). Financial inclusion in the Philippines. Manila, Philippines. Retrieved from https://www.bsp.gov.ph/Inclusive%20Finance/Fin ancial%20Inclusion%20Reports%20and%20Publi cations/2021/2021FISToplineReport.pdf
- [12] Camara, N., & Tuesta, D. (2014). Mobile banking and financial inclusion in Mexico. BBVA Research Working Paper No. 14/26.
- [13] Consultative Group to Assist the Poor (CGAP).
   (2019). Mobile Money for the Poor: From Vision to Transformation. CGAP. https://www.cgap.org/
- [14] Davis, F. D. (1989). Perceived usefulness, perceived ease of use, and user acceptance of computer technology. MIS Quarterly, 13(3), 319-340.
- [15] De Guzman, L. (2023). Mobile banking benefits for rural entrepreneurs in the Philippines: The case of microenterprises. Philippine Economic Review, 8(3), 103-119. https://doi.org/10.1234/per.2023.008
- [16] Demirguç-Kunt, A., et al. (2017). Global Findex Database 2017: Measuring financial inclusion and the fintech revolution. World Bank Group. Retrieved from https://www.worldbank.org/en/publication/globalfi ndex
- [17] Department of Social Welfare and Development. (n.d.). Pantawid Pamilyang Pilipino Program (4Ps). https://www.dswd.gov.ph/
- [18] Exist Software Labs Inc. (2024). Digital transformation for rural banks in the Philippines. Retrieved from https://exist.com
- [19] Ghosh, M., & Sinha, R. (2020). Gender-specific barriers in mobile banking adoption: Evidence from rural India. Women's Studies in Finance, 9(2), 45-60.
- [20] GSMA. (2021). The State of Mobile Money 2021. GSMA. Retrieved from https://www.gsma.com/mobilefordevelopment/wpcontent/uploads/2021/03/GSMA\_State-of-the-

Industry-Report-on-Mobile-Money-2021\_Full-report.pdf

- [21] Gupta, A., & Mehta, S. (2022). Government interventions and mobile banking in rural areas: Challenges and opportunities. Journal of Public Policy in Technology, 16(3), 201-218.
- [22] Hannig, A., & Jansen, V. (2010). Financial Inclusion and Financial Stability: Current Policy Issues. ADBI Working Paper No. 259. Asian Development Bank Institute.
- [23] Kaur, J., & Pathak, S. (2019). Mobile Banking in India: Challenges and Opportunities for Financial Inclusion. International Journal of Advanced Research, 7(5), 1200-1207.
- [24] Kaur, S., & Singh, H. (2019). Usability challenges in mobile banking platforms for low-literacy users. Human-Computer Interaction Studies, 11(3), 29-48.
- [25] Khera, P., et al. (2021). Mobile banking in developing countries: Opportunities and challenges. Routledge.
- [26] Koomson, I., et al. (2020). Financial literacy and its impact on financial inclusion: Evidence from developing countries. Journal of Economic Studies.
- [27] Kumar, S., Patel, V., & Sharma, A. (2023). Mobile banking adoption and financial resilience in rural India: A case study of the Indian countryside. International Journal of Financial Inclusion, 17(1), 75-92. https://doi.org/10.1093/ijfi.2023.017
- [28] Lay, S. (2018). Mobile banking and financial inclusion in Asia. Palgrave Macmillan.
- [29] Llanto, G., & Rosellon, M. (2017). Determinants of financial inclusion in the Philippines. Asian Development Bank.
- [30] Llanto, G., et al. (2018). Financial inclusion in the Philippines: Review and prospects. Philippine Institute for Development Studies.
- [31] Lopez, M. (2017). The evolution of electronic wallets in the Philippines. Journal of Financial Technology.
- [32] Martinez, L., & Santos, R. (2022). Digital financial inclusion through mobile banking in the Philippines: A transformative tool for rural populations. Philippine Journal of Financial Innovation, 3(2), 45-60. https://doi.org/10.1234/pjfi.2022.456



Volume 06, Issue 04, 2025 | Open Access | ISSN: 2582-6832

- [33] Mbiti, I. M., & Weil, D. N. (2021). Enhancing financial inclusion in Africa through mobile banking: Evidence from rural areas. Journal of African Economic Development, 12(4), 122-139. https://doi.org/10.1016/j.jaed.2021.05.004
- [34] Mbiti, I., & Weil, D. N. (2016). "Mobile banking: The impact of M-Pesa in Kenya." In African Successes, Volume III: Modernization and Development (pp. 247-293). University of Chicago Press. Retrieved from https://www.nber.org/chapters/c13367
- [35] McKinsey & Company. (2023). Unlocking Growth in the Philippines: A Vision for the Next Decade. https://www.mckinsey.com/featuredinsights/insights-store.
- [36] Nair, P., & Thomas, A. (2021). Collaborative frameworks for rural mobile banking adoption. Banking Innovations Quarterly, 10(4), 141-155.
- [37] Ozili, P. (2018). Impact of digital finance on financial inclusion. Review of Development Finance, 8(1), 1-14.
- [38] Patel, D., Joshi, K., & Desai, V. (2021). Awareness and adoption of mobile banking services in rural communities. Journal of Economic Research, 8(2), 91-110.
- [39] Philippine Statistics Authority. (2020). 2020 Census of Population and Housing. https://psa.gov.ph/
- [40] Rahman, M. N., & Islam, M. S. (2020). Factors Influencing Mobile Banking Adoption in Bangladesh: An Empirical Study. Journal of Asian Finance, Economics and Business, 7(7), 1-16.
- [41] Ravindran, S. (2021). Mobile banking and migration in Bangladesh. Global-Is-Asian. Retrieved from https://lkyspp.nus.edu.sg
- [42] Republic of the Philippines. (2000). Republic Act No. 8791: The General Banking Law of 2000. Official Gazette of the Republic of the Philippines. https://www.officialgazette.gov.ph/
- [43] Republic of the Philippines. (2019). Republic Act No. 11293: Philippine Innovation Act. Official Gazette of the Republic of the Philippines. https://www.officialgazette.gov.ph/
- [44] Rogers, E. M. (1995). Diffusion of innovations (5th ed.). Free Press.
- [45] Saravanan, V., & Kumar, R. (2021). Digital literacy and mobile banking adoption in remote regions. Digital Inclusion Studies, 14(2), 121-138.

- [46] Sharma, A., Tripathi, R., & Verma, P. (2019). Trust and security concerns in mobile banking: A rural perspective. International Journal of Finance and Technology, 7(1), 56-72.
- [47] Sharma, R., & Ahmed, S. (2021). Mobile banking adoption in Bangladesh: A path toward financial inclusion in rural communities. International Journal of Rural Financial Studies, 12(3), 45–68. Retrieved from https://www.internationaljournals.com
- [48] Sioson, E., & Kim, B. (2019). Gender disparities in financial inclusion: Evidence from the Philippines. Economic Development Quarterly, 33(4), 349-362.
- [49] Statista. (2023). Number of smartphone users in the Philippines from 2020 to 2029 (in millions). Retrieved from https://www.statista.com/forecasts/558756/number -of-mobile-internet-user-in-the-philippines
- [50] Tan, H., & Ong, M. (2021). The role of mobile banking in financial empowerment in Southeast Asia. Asian Journal of Financial Services, 7(1), 31-47, https://doi.org/10.1016/j.ajfs.2021.02.005
- [51] Telenor Asia. (2023). Digital Lives Decoded. https://salesforce.stackexchange.com/questions/22 9348/the-source-report-is-based-on-a-report-typethat-is-inaccessible-to-the-dashboar
- [52] Venkatesh, V., Morris, M. G., Davis, G. B., & Davis, F. D. (2003). User acceptance of information technology: Toward a unified view. MIS Quarterly, 27(3), 425-478.
- [53] World Bank. (2018). "The Global Findex Database 2017: Measuring Financial Inclusion and the Fintech Revolution." Washington, DC: World Bank. Retrieved from https://www.worldbank.org/en/publication/globalfi ndex
- [54] World Bank. (2018). World Development Report 2018: Learning to Do More with Less. World Bank. Retrieved from https://www.worldbank.org/en/publication/wdr201 8
- [55] World Bank. (2021). The Role of Digital Financial Inclusion in Times of Crisis. Washington, DC: World Bank. Retrieved from https://www.worldbank.org/en/topic/financialinclu sion/overview