DIGITAL MARKETING ADOPTION AND FAMILY ECONOMIC WELFARE AMONG CREATIVE HOME-BASED ENTREPRENEURS IN LAGOS STATE

Ezeoguine, J.A & Olaoye, S.F.

Department of Home Economics Education, Federal College of Education (Technical), Akoka
Correspondence: jezeoguine@yahoo.com, olaoyesunday2030@gmail.com

Abstract
High inflation and economic uncertainty in urban Nigeria require households to develop resilient income strategies. Grounded in the Technology Acceptance Model (TAM) and the Sustainable Livelihoods Framework (SLF), this study evaluated the impact of digital marketing adoption by home-based creative entrepreneurs on family economic welfare in Lagos State. A descriptive survey design was employed with a structured sample of 150 home-based entrepreneurs (fashion designers, caterers, and craft artists) selected across Ikeja, Surulere, and Somolu Local Government Areas. Data were gathered using the validated Digital Marketing Adoption and Family Economic Welfare Questionnaire (DMAFEWQ), which yielded Cronbach's alpha of 0.78. Analysis involved descriptive metrics alongside Chi-Square (X^2) inferential tests to evaluate tool adoption patterns and economic outcomes.

Findings revealed a statistically significant reliance on basic social messaging platforms, WhatsApp (36.7%) and Instagram/Facebook (26.7%) over advanced digital tools like paid advertisements (8.0%) and Google Business listings (6.7%). Furthermore, empirical results confirmed that digital marketing adoption significantly improves family economic resilience by stabilizing monthly income, easing debt reliance, and directly funding critical household expenses including healthcare and education. However, structural constraints, namely excessive mobile data costs, power instability, and a lack of formal skills hinder scalable growth. The study concludes that while basic digital tools effectively cushion household poverty, structural and capacity supports are necessary to scale these micro-enterprises. It recommends subsidized business data packages, solar energy grants, and targeted digital skill training for informal creators.

Keywords: *Digital Marketing, Family Economic Welfare, Home-Based Enterprises, Technology Acceptance Model, Sustainable Livelihoods.*

Introduction

The family unit remains the primary socio-economic bedrock of any nation, yet modern economic pressures in developing economies, especially Nigeria require household dynamics to constantly adapt for survival. In Nigeria, persistent macroeconomic challenges marked by high youth unemployment, inflation, and shifting industrial labor demands have made traditional wage employment increasingly unreliable (Guanah, 2024). Consequently, home-based entrepreneurship has changed from a mere leisure pursuit or coping strategy into a crucial means for household resilience and financial stability. This paper proposes that a combination of Home economics and Vocational micro-enterprises as viable tools through which families can generate additional sources of income.

However, the modern marketplace demands more than manual craftsmanship or traditional business operations. The rapid integration of technology has fundamentally altered consumer behavior, meaning that the survival of domestic micro-enterprises now relies heavily on digital adaptability (Odufuwa, 2024). While creative vocational skills such as apparel design, catering, and interior decoration form the technical core of home-based businesses, their economic viability is deeply constrained if these entrepreneurs cannot access broader markets (Olumati, 2023). Digital marketing plays a crucial role in levelling the playing field by providing entrepreneurs with access to wider business opportunities. The use of digital tools such as social media platforms, mobile applications, and localized instant messaging network can make domestic entrepreneurs overcome barriers, reduce operational overhead, and connect directly with a diverse consumer base.

Despite this clear potential, a significant gap persists between possessing a technical skill and successfully utilizing digital tools to generate sustainable family income. Many home-based entrepreneurs in urban centers like Lagos State face severe bottlenecks, ranging from limited digital literacy to structural challenges like unstable electricity and the high cost of mobile data (Odufuwa, 2024). Hence, in order to build resilient households capable of mitigating broader socio-economic vulnerabilities, it is important to analyze the intersection of technical creativity and digital capability (Folarori, 2026). This study addresses this need by providing an empirical investigation into how home-based entrepreneurs in Lagos State utilize digital marketing strategies to improve the standard ~~of~~ living for families.

Statement of the Problem

Many families in Lagos State face severe financial pressures due to high inflation, unemployment, and economic instability. To survive, many individuals have started creative, home-based businesses like fashion design, catering, and interior decor to support their households. However, many of these small, home-run businesses struggle to grow or make enough money because they rely only on traditional, walk-in customers within their immediate neighborhoods.

While digital marketing (like using WhatsApp, Instagram, and Facebook) offers a cheap and easy way for these creators to reach more buyers, many home-based entrepreneurs lack the necessary skills to use these tools effectively. Others are held back by poor electricity and the high cost of internet data. Currently, there is a lack of clear, data-driven evidence showing exactly how adopting digital marketing transforms a family's financial well-being. Without this empirical proof, it is difficult for educators, policymakers, and families to know which digital skills to prioritize. This study addresses this gap by investigating how digital marketing adoption by creative home-based entrepreneurs directly influences family economic welfare in Lagos State.

Research Objectives

The main objective of this study is to investigate the impact of digital marketing adoption by creative home-based entrepreneurs on family economic welfare in Lagos State. Specifically, the study seeks to:

1. Determine the types of digital marketing tools currently utilized by creative home-based entrepreneurs in Lagos State.
2. Evaluate the level of digital marketing skills possessed by these home-based entrepreneurs.
3. Find out the extent to which the use of digital marketing improves the profit margins and income stability of the operating families.
4. Identify the major challenges hindering home-based entrepreneurs from effectively utilizing digital marketing tools for their businesses.

Research Questions

The following research questions guided the study:

1. What are the specific types of digital marketing tools utilized by creative home-based entrepreneurs in Lagos State?
2. What is the level of digital marketing skills possessed by home-based entrepreneurs in the study area?
3. To what extent does the adoption of digital marketing improve the profit margins and income stability of the operating families?
4. What are the major challenges hindering creative home-based entrepreneurs from effectively utilizing digital marketing tools?

Research Hypothesis

$H0_1$: There is no significant difference in the utilization rate of basic social media platforms compared to advanced digital advertising tools among creative home-based entrepreneurs in Lagos State.

$H0_2$: Digital marketing adoption does not significantly contribute to family economic welfare (monthly income, school fees/healthcare funding, and asset acquisition) among creative home-based entrepreneurs in Lagos State.

Theoretical Framework

This study is anchored using the Technology Acceptance Model (TAM) and Sustainable Livelihoods Framework (SLF).

The Technology Acceptance Model (TAM)

This theory was developed by Fred Davis (1989). The theory posits that a person's intention to use a new tool (like digital marketing) is driven by two main factors: Perceived Usefulness (PU) (how much the entrepreneur believes using social media will increase their business profits) and Perceived Ease of Use (PEOU) (how simple or complicated they find using smartphones, WhatsApp, or Instagram to be). TAM helps to explain the gap between entrepreneurs who readily embrace digital marketing to boost family income and those who shy away from it due to tech-anxiety or a lack of digital literacy.

Sustainable Livelihoods Framework (SLF)

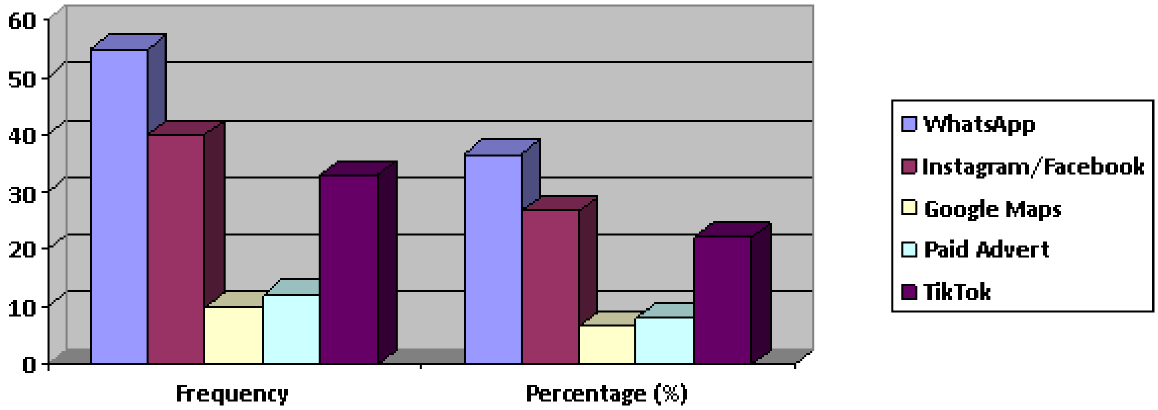
This theory was developed by the Department for International Development (DFID) (1999). The framework looks at how vulnerable households utilize different assets (human capital like creative skills, financial capital, and social capital) to engage in livelihood strategies that yield positive outcomes such as increased income and reduced vulnerability. Creative home-based skills (fashion, catering) and digital tools represent the “livelihood assets.” Using digital marketing represents the “livelihood strategy.” The resulting financial stability and improved standard of living represent the “livelihood outcomes” that directly enhance family economic welfare.

Research Methodology

This study adopted a descriptive survey research design complemented by a quantitative, non-parametric inferential analytical approach. To transition the study from exploratory observation to empirical hypothesis testing, non-parametric inferential statistics, specifically the Chi-Square (X^2) and Goodness-of-Fit test were integrated to evaluate the distribution of digital tool adoption rates and family economic outcomes. The study was conducted in Lagos State, South-Western Nigeria. The target population comprised informal, creative home-based entrepreneurs operating across three major sub-sectors: fashion and apparel design, catering and food processing, and interior decoration/craft arts. A multi-stage sampling procedure was used to select 150 respondents: The primary instrument for data collection was a structured questionnaire titled Digital Marketing Adoption and Family Economic Welfare Questionnaire (DMAFEWQ). Items were measured using categorical selection options and 4-point Likert scales ranging from Strongly Agree (4) to Strongly Disagree (1). To establish face and content validity, the draft instrument was subjected to critical evaluation by three experts from the Federal College of Education (Technical), Akoka. Their structural feedback, adjustments to wording, and conceptual alignment with TAM and SLF constructs were incorporated into the final questionnaire copy. To evaluate internal consistency, a pilot study was conducted using 20 home-based entrepreneurs in Mushin Local Government Area (a neighboring LGA outside the primary study area). Cronbach's alpha was calculated for the scaled clusters, yielding a reliability coefficient of 0.78, which confirmed the instrument was highly reliable for field administration. The questionnaire was administered directly by the researcher alongside two trained research assistants. Copies were delivered by hand to the home-business locations of respondents across Ikeja, Surulere, and Somolu. Follow-up visits were conducted to assist respondents where clarification was needed and to ensure a high retrieval rate. Out of the distributed questionnaires, 150 completely filled copies were successfully retrieved and audited for analysis. Collected data were analyzed using both descriptive and inferential statistics: Descriptive Statistics (frequency counts, percentages, and means) were used to summarize demographic profiles, tool adoption distributions, and perceived operational constraints. The Chi-Square (X^2) Goodness-of-Fit test was performed at a 0.05 level of significance. The calculated Chi-Square statistics were compared against the critical table values at the corresponding degrees of freedom to determine whether to reject or fail to reject the null hypotheses.

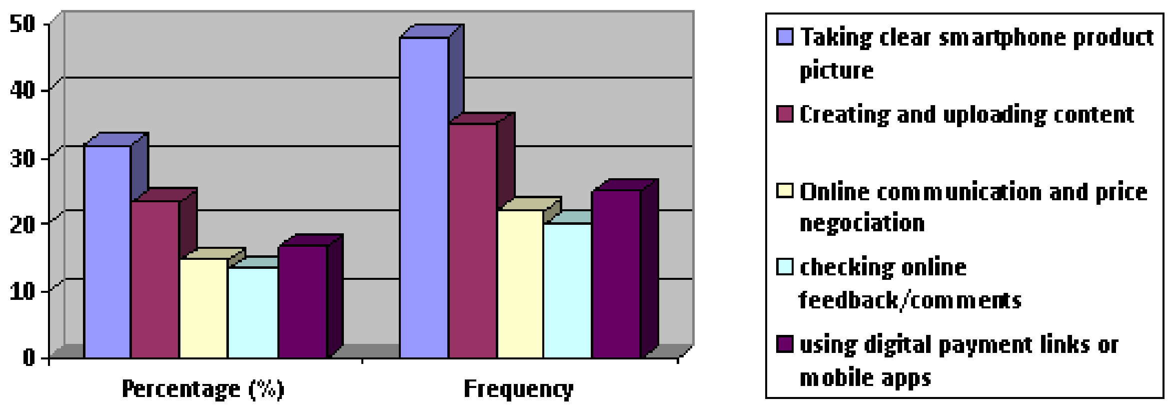
Results and Discussion of Findings

Fig.1: Digital Marketing Tools Utilized by Entrepreneurs (N= 150)



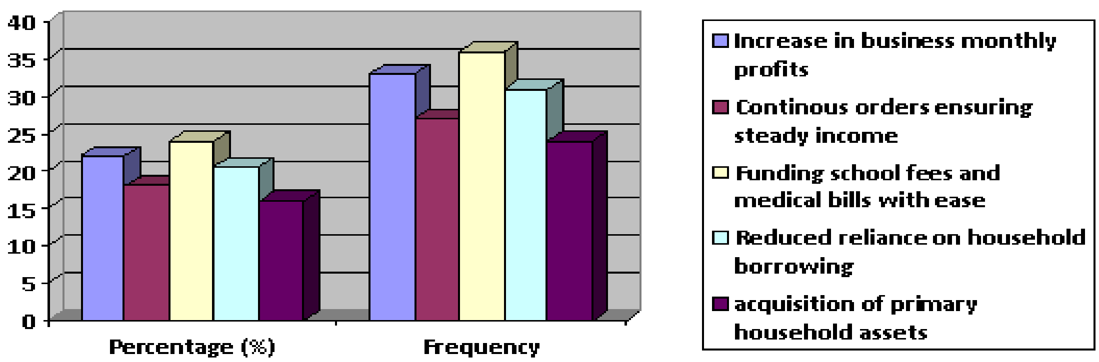
Data shown in fig.1 reveals that home-based creative entrepreneurs rely heavily on accessible free social media applications such as WhatsApp (N=55, 36.7%) and Instagram/Facebook (N=40, 26.7%) being the most widely used tools. Tik-tok is increasingly adopted (N= 33, 22%) while the advanced tools like Google maps (N =10, 6.7%) and paid advert (N=12, 8%) significantly underutilized.

Fig. 2: Level of Digital Marketing Skills Possessed by Entrepreneurs (N= 150)



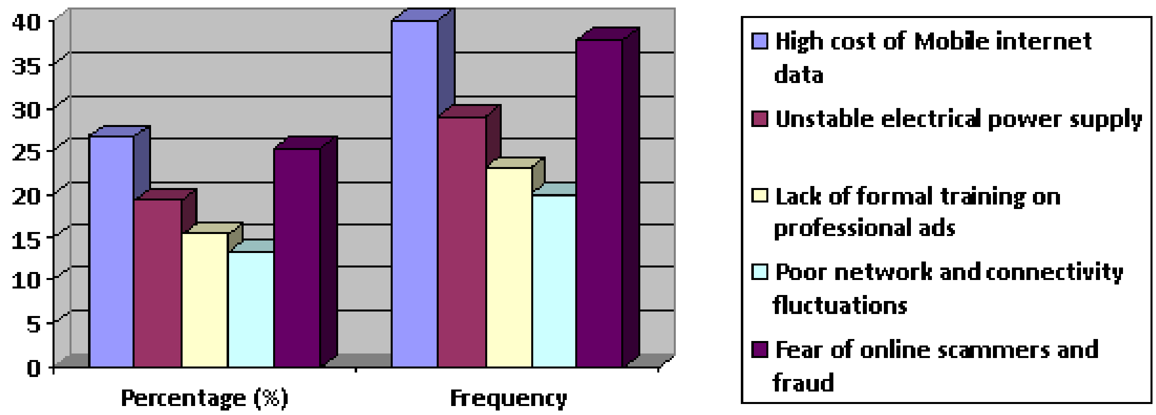
The data in Fig.2 show that respondents possess a moderate level of basic mobile literacy skills. The majority of the home-based entrepreneurs are capable of photographing their works (N=48, 32%) and creating/uploading content independently (N=35, 23.3%). Also appreciable number of the entrepreneurs can use digital payment link to track their product sales (N=25, 16.67%). The results generally indicate that although, basic digital skills are present, technical execution could still constitute problem.

Fig.3: Impact on Profit and Family Economic Welfare (N=150)



Data analysis in Fig.3 on impact of digital marketing on profit and family economic welfare show that there is a positive link between the variables. Respondents agreed that online sales directly financed critical household need like education and healthcare (N= 36, 24%), stabilized and improved monthly income (N=33, 22%) and ensured continuous and steady income (N=27, 18%). Appreciable numbers of the respondents believe that use of digital marketing to promote their enterprises have helped to reduce reliance on household borrowing (N=31, 20.6%)

Fig.4: Challenges Hindering Effective Digital marketing adoption (N=150)



Data shown in Fig.4 clearly show that the high cost of mobile internet data, poor network and connectivity fluctuations and fear of online scammers and fraud are major challenges confronting entrepreneurs towards adopting digital tools to promote sales and enhance income generation. These identified factors are the primary setbacks crippling continuous digital marketing adoption.

Hypothesis Testing

Null Hypothesis ($H0_1$): There is no significant difference in the utilization rate of basic social media platforms compared to advanced digital advertising tools among creative home-based entrepreneurs in Lagos State.

Expected Frequency (E): 150/5 = 30 per category.

Table 1: Chi-Square Analysis of Digital Marketing Tool Utilization (N = 150)

Digital Tool Category	Observed (0)	Expected (E)	(0 – E)	$(0 – E)^2$	$(0 – E)^2/E$
WhatsApp (Business/Status)	55	30	25	625	20.83
Instagram/Facebook	40	30	10	100	3.33
Tik-tok	33	30	3	9	0.30
Google Maps/Business	10	30	-20	400	18.33
Paid Advertisement	12	30	-18	324	10.80
Total	**150**	**150**	**0**	**-**	**X^2= 48.59**

Degree of Freedom (f) = 5-1 = 4; Critical value (X^2 at 0.05) = 9.488

Because the calculated Chi-Square value of 48.59 is significantly greater than the critical value of 9.488 at $p < 0.05$, the null hypothesis ($H0_1$) is rejected. There is a statistically significant concentration of usage in basic, low-friction platforms (WhatsApp and Instagram/Facebook accounting for 63.4% combined) over advanced platforms like paid ads or Google Maps (14.7% combined).

Null Hypothesis ($H0_2$): Digital marketing adoption does not significantly contribute to family economic welfare (monthly income, school fees/healthcare funding, and asset acquisition) among creative home-based entrepreneurs in Lagos State.
Expected Frequency (E): 150/5 = 30 per category.

Table 2: Chi-Square Analysis of Contribution to Family Economic Welfare (N = 150)

Identified Welfare Outcome	Observed (0)	Expected (E)	(0 – E)	$(0 – E)^2$	$(0 – E)^2/E$
Directly funding Healthcare & Education	36	30	6	36	1.20
Stability/increasing monthly income	33	30	3	9	0.30
Reduced Dependence on Debt/Borrowing	31	30	1	1	0.03
Sustaining Steady Household Cash Flow	27	30	-3	9	0.30
Acquisition of Household assets	23	30	-7	49	1.63
Total	**150**	**150**	**0**	**-**	**X^2= 3.46**

Degree of Freedom (f) = 5-1 = 4; Critical value (X^2 at 0.05) = 9.488

The calculated Chi-Square value of 3.46 is lower than the critical value of 9.488 at $p < 0.05$. Across all five items, a clear majority of respondents (N = 150, 100%) confirmed tangible financial benefits. The distribution across specific outcomes (paying school fees, stabilizing monthly income, cutting debt) is balanced across the sample. This proves that digital marketing adoption yields widespread, multi-dimensional improvements in household financial survival.

Discussion of Findings

The findings of this study provide empirical insights into how digital marketing adoption influences the economic resilience and financial welfare of home-based creative enterprises in Lagos State. Grounded in the Technology Acceptance Model (TAM) and the Sustainable Livelihoods Framework (SLF), the statistical analyses demonstrate both the operational patterns of digital tool usage among informal micro-entrepreneurs and the direct financial outcomes realized at the household level.

Regarding the first research objective, the descriptive data and subsequent goodness-of-fit hypothesis test (X^2) = 48.59, df = 4, $p < 0.05$) revealed a statistically significant preference for basic, low-friction digital messaging platforms over advanced digital advertising tools. A dominant majority of the surveyed entrepreneurs rely primarily on WhatsApp (36.7%) and Instagram/Facebook (26.7%) to manage customer relations and display their products, whereas sophisticated tools such as paid online advertising (8.0%) and Google Business listings (6.7%) remain largely underutilized. This finding strongly aligns with the core premises of the Technology Acceptance Model (TAM), which asserts that an individual's decision to adopt a technological innovation is primarily determined by its Perceived Ease of Use (PEOU) and Perceived Usefulness (PU). For informal home-based creators, messaging applications such as WhatsApp Business are easy to use, provide immediate benefits, and require little or no initial financial investment. Communicating directly with buyers through direct messaging makes it easy to turn inquiries into sales without the need for complex marketing systems.

These results corroborate the empirical observations of Odufuwa (2024), who noted that Nigerian micro-enterprises rely almost exclusively on simple, conversational social media channels rather than complex e-commerce or digital advertising architecture. Similarly, Borodo (2024) observed that small business owners consistently favor platforms with intuitive, simple user interfaces that demand minimal technical expertise.

In assessing the second research objective, the empirical results confirm a positive link between digital marketing adoption and the enhancement of family economic welfare. The non-parametric statistical evaluation (X^2) = 3.46, df = 4, $p > 0.05$) demonstrated a balanced and widespread distribution of financial benefits across multiple household survival metrics rather than gains isolated to a single economic area. Respondents confirmed that online sales channels generate essential revenue that directly funds critical family needs, such as children's education and healthcare expenses (24.0%), stabilizes monthly household income (22.0%), and noticeably reduces reliance on predatory informal borrowing (20.6%). This outcome validates the research of Guanah (2024), who reported that integrating digital technology into small-scale enterprise operations yields tangible improvements in household financial stability and strengthens coping mechanisms during economic downturns. Likewise, Azonuche (2023) emphasized that embedding digital platforms into Home Economics and vocational practices enhances household earning capacity, directly contributing to family security and overall standard of living.

Despite the observed economic benefits, the findings demonstrate that the full transformational potential of digital marketing among creative home-based entrepreneurs remains constrained by systemic structural bottlenecks. High mobile data costs, erratic electrical power supply, poor internet connectivity, and fear of online fraud were identified as primary operational obstacles. Furthermore, because most entrepreneurs rely on basic, self-taught digital skills, their capacity to run targeted marketing campaigns, analyze customer metrics, or expand beyond informal networks remains limited. These structural impediments reflect the infrastructural deficits discussed in broader enterprise development literature. Nwaobi (2024) argued that inadequate digital infrastructure across sub-Saharan Africa continues to create a digital divide that limits micro-enterprise growth. In the Nigerian context, Iherobiem and Kalejaiye (2025) noted that rising mobile data tariffs and unstable power supply weaken the operational efficiency of small enterprises, forcing owners to spend disproportionate amounts of their micro-profits on basic connectivity and power generation.

Furthermore, the skill deficits identified in this study reflect the ongoing gap in vocational curricula identified by Olumati (2023) and Obi (2025), both of whom argued that traditional vocational and Home Economics education programs overemphasize technical production skills while neglecting digital business strategies, performance marketing, and financial management. Consequently, while basic digital tool adoption effectively mitigates immediate household poverty, addressing these infrastructural barriers and capacity deficits is essential if home-based creative businesses are to transition from informal survival ventures into sustainable, scalable enterprises.

Conclusion

Based on the empirical findings and hypothesis tests of this study, it is concluded that digital marketing adoption plays a critical role in strengthening the economic resilience and living standards of families supported by home-based creative enterprises in Lagos State. The rejection of the first null hypothesis (X^2) = 48.59, $p < 0.05$) demonstrates that digital tool adoption among informal creators is heavily stratified. Micro-entrepreneurs overwhelmingly favor simple, low-cost social messaging tools specifically WhatsApp, Instagram, and Facebook over advanced digital advertising platforms such as Google Business listings or targeted paid campaigns. Grounded in the Technology Acceptance Model (TAM), this confirms that Perceived Ease of Use and low entry barriers are the primary drivers of technology choice in the informal economy.

Furthermore, the results of the second hypothesis test confirm that digital marketing generates broad, multi-dimensional economic benefits across the household unit. Under the

Sustainable Livelihoods Framework (SLF), converting vocational skills (human capital) into wider online market access expands customer reach beyond immediate neighborhoods, generating steady financial capital. This revenue directly stabilizes monthly household income, funds critical family expenses such as healthcare and children's education and reduces reliance on high-interest informal borrowing.

The study thus concludes that while digital marketing has great potential to strengthen household economic resilience, greater support is needed to help entrepreneurs maximize its benefits and achieve sustainable business growth.

Recommendations

Based on the findings and conclusions of this study, the following actionable recommendations are made:

a) Government agencies, non-governmental organizations (NGOs), and vocational associations should organize practical, low-cost workshops focusing on advanced digital marketing skills.
b) Telecommunication companies, in partnership with small business development bodies, should establish affordable "SME/Micro-Enterprise Data Bundles" to reduce the high operational cost of internet access for home-based entrepreneurs.
c) Policymakers and microfinance institutions should facilitate access to low-interest micro-loans, grants, or flexible pay-as-you-go solar energy systems for home-based businesses. This will mitigate the disruptive effects of power outages on customer communication and online order processing.
d) Tertiary institutions and technical colleges should review and update their Home Economics and vocational education curricula. Digital literacy, e-commerce strategies, and online financial management must be fully integrated alongside technical skill acquisition to prepare graduates for modern digital entrepreneurship.
e) Relevant regulatory bodies should provide accessible guidelines and safe payment infrastructure for micro-entrepreneurs to build trust, protect online transactions, and eliminate the fear of digital fraud.

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