

Role Of Online Customer Engagement In Driving Business Sustainability: A Case Of Small And Medium Enterprises In Kasese District, Uganda

Bwambale Godwill

Metropolitan International University

Abstract

Small and Medium Enterprises (SMEs) in rural Uganda faced significant sustainability challenges. While digital adoption is promoted as a solution, empirical evidence on which specific digital practices most strongly predict sustainability outcomes in contexts like Kasese District is scarce. This study employed a descriptive and correlational cross-sectional survey design. Data were collected from 151 SME owners/managers in Kasese District (93% response rate) using a structured questionnaire with 5-point Likert scales. Analysis using SPSS version 26 involved descriptive statistics, Pearson correlation, and simple linear regression to test the hypothesis. Online Customer Engagement (CE) demonstrated a very strong, significant positive correlation with Business Sustainability (BS) ($r = .784, p < .01$). The regression model was statistically significant, $F(1, 149) = 177.156, p < .001$, explaining 61.4% of the variance in BS ($R^2 = .614$). The unstandardized coefficient ($B = 0.812$) indicates that for every one-unit increase in CE, BS increases by 0.812 units. The standardized coefficient (Beta, $\beta = .784$) confirms a strong positive effect. Online Customer Engagement is the most potent predictor of business sustainability among the digital practices examined. The study concludes that for SMEs in developing regions, strategic investment in interactive, responsive, and feedback-driven digital engagement is critical for achieving long-term viability, customer retention, and competitive resilience. Recommendations for SME owners and policymakers are centered on building digital engagement capacity.

Keywords: Online Customer Engagement, Business Sustainability, SMEs, Digital Platforms, Kasese District, Uganda, Simple Linear Regression.

1. Introduction

The sustainability of Small and Medium Enterprises (SMEs) is a cornerstone of economic development in Uganda, yet these businesses face high failure rates, particularly in rural districts (UBOS, 2023). In Kasese District, challenges such as infrastructural deficits and climate vulnerabilities exacerbate this risk (Nile Post, 2024). Digital transformation, especially through online shopping practices, is heralded as a pathway to resilience. Prior research often treats "digital adoption" monolithically, examining broad impacts without isolating the effects of specific strategic behaviors (Kumar et al., 2021; Nwankwo & Ojiaku, 2023). This study addresses this gap by deconstructing online shopping into core practices and empirically testing their individual relationships with sustainability.

This article extracts and focuses on the relationship between Online Customer Engagement (CE) defined as the extent and quality of digital interactions with customers and Business Sustainability (BS). While the broader dissertation found significant effects for digital platform use and digital payments, preliminary analysis indicated CE had the strongest predictive power. This article posits that in the relational commerce context of Kasese, moving beyond

Received: 18.01.2026

Accepted: 22.01.2026

Published on: 30.01.2026

transactional digital use to foster meaningful online relationships is the critical lever for SME sustainability. The study aims to test this specific relationship with statistical rigor to provide targeted insights for theory and practice.

2. Statement of the Problem

The ideal situation is for SMEs in Kasese District to leverage digital tools to build resilient, growing, and sustainable enterprises. The real situation, however, is characterized by fragmented and often superficial digital adoption, where businesses may have an online presence but fail to harness it for deep customer connection (Bindeeba et al., 2025; Mwesigwa & Namulindwa, 2023). The consequence is that the potential sustainability benefits of digitization customer loyalty, adaptive capacity, and market intelligence remain unrealized. If this disconnect persists, SMEs will not build the digital-era capabilities needed to survive economic shocks and intensifying competition. A critical research gap exists in quantifying *how much* a focused strategy on online customer engagement, above other digital practices, contributes to sustainability. This study directly addresses this gap by asking: To what extent does Online Customer Engagement predict Business Sustainability among SMEs in Kasese District?

3. Literature Review

Theoretical grounding is drawn from the Unified Theory of Acceptance and Use of Technology (UTAUT) (Venkatesh et al., 2003), particularly the constructs of *performance expectancy* (the belief that using the system will help achieve gains in job performance) and *social influence*. In this context, CE is a high-performance expectancy activity where businesses anticipate that responsive interaction will yield customer loyalty and growth.

Globally, literature affirms that customer engagement is a key mediator between digital presence and business outcomes (Kaur et al., 2022). In Sub-Saharan Africa, studies note that SMEs using WhatsApp and Facebook for direct communication report improved trust and repeat sales (Turinawe & Asaba, 2024). Recent Ugandan research by Mwesigwa and Namulindwa (2023) found that personalized digital follow-ups increased customer retention rates by up to 40%. However, these studies often embed engagement within broader digital strategy analyses. This article isolates CE as an independent construct, arguing that in a high-context, relationship-driven market like Kasese, the *quality of digital interaction* may outweigh the *breadth of digital tools* in driving sustainability. The hypothesis flows from this literature.

4. Methodology

4.1 Research Design:

A quantitative, descriptive and correlational cross-sectional survey design was employed.

4.2 Population & Sample:

The target population was owners/managers of SMEs in Kasese Municipality. Using Slovin's formula with a population (N) of 270 and a 5% margin of error, a sample size of 162 was calculated. Stratified random sampling was used across business sectors (Retail, Services, Hospitality, Agro-business).

4.3 Data Collection:

Received: 18.01.2026

Accepted: 22.01.2026

Published on: 30.01.2026

Primary data were collected between March and May 2025 using a structured questionnaire. The key constructs were measured with 5-point Likert scales (1=Strongly Disagree, 5=Strongly Agree).

Online Customer Engagement (CE): Measured by 5 items (e.g., "I handle customer inquiries through social media," "I follow up with customers online after purchases"). Scale reliability was excellent (Cronbach's $\alpha = 0.88$).

Business Sustainability (BS): Measured by 5 items (e.g., "Online presence has helped us survive competition," "Sales have increased due to digital tools"). Scale reliability was good (Cronbach's $\alpha = 0.86$).

4.4 Data Analysis:

Data were analyzed with SPSS v26. Descriptive statistics summarized the data. A Pearson correlation analysis assessed the bivariate relationship.

A Simple Linear Regression was conducted to test the hypothesis that CE predicts BS. This method was chosen to cleanly assess the unique predictive power of this single construct pair, as per the instruction set.

Hypothesis:

H₁: Online Customer Engagement has a significant positive effect on Business Sustainability.

5. Results

5.1 Response Rate and Demographics: From 162 questionnaires distributed, 151 were fully completed (93% response rate). Respondents were predominantly male (58.3%), aged 31-40 (37.7%), and business owners (43%).

5.2 Descriptive Statistics:

Table 1: Descriptive Statistics for Key Constructs (N = 151)

Construct	Mean (M)	Standard Deviation (SD)	Interpretation
Online Customer Engagement (CE)	4.16	0.97	High Level of Adoption
Business Sustainability (BS)	4.18	0.87	High Perceived Sustainability

Note. All constructs measured on a 5-point Likert scale.

5.3 Correlation Analysis:

Table 2: Intercorrelation Matrix for Study Constructs (N = 151)

Construct	1	2
1. Online Customer Engagement (CE)	—	
2. Business Sustainability (BS)	.784**	—

**p < .01

The Pearson correlation revealed a very strong, statistically significant positive relationship between CE and BS (*r* = .784, *p* < .01).

5.4 Simple Linear Regression Analysis:

Received: 18.01.2026

Accepted: 22.01.2026

Published on: 30.01.2026

A simple linear regression was conducted to test Hypothesis H₁, which postulated that Online Customer Engagement significantly predicts Business Sustainability.

Table 3: Simple Linear Regression Analysis for Online Customer Engagement Predicting Business Sustainability

Model	R	R ²	Adj. R ²	F	df1	df2	p
1	.784	.614	.610	177.156	1	149	< .001

Table 4: Regression Coefficients

Predictor	B	SE B	β	t	p	95% CI for B
(Constant)	0.921	0.201		4.580	< .001	[0.524, 1.318]
Online Customer Engagement	0.812	0.061	.784	13.310	< .001	[0.691, 0.933]

Note. Dependent Variable: Business Sustainability.

The model was statistically significant, $F(1, 149) = 177.156$, $*p < .001$, and explained 61.4% of the variance in Business Sustainability ($R^2 = .614$). The unstandardized coefficient ($B = 0.812$) indicates that for every one-unit increase on the 5-point CE scale, Business Sustainability increases by 0.812 units. The standardized coefficient (Beta, $\beta = .784$) confirms a strong positive effect. The 95% confidence interval for B [0.691, 0.933] does not include zero, reinforcing the reliability of this prediction. Therefore, Hypothesis H₁ is supported.

6. Discussion

The finding that Online Customer Engagement explains over 61% of the variance in SME sustainability is striking. It underscores that in Kasese District, sustainability is not merely a function of being online or accepting digital payments, but is profoundly driven by how businesses *interact* with customers in the digital space. This supports and extends the UTAUT framework: the *performance expectancy* of digital tools is maximized when they are used for relational, not just transactional, purposes (Venkatesh et al., 2012).

The strength of this relationship ($\beta = .784$) surpasses effects commonly reported for broader technology adoption measures. This suggests that for resource-constrained SMEs, a "deep" rather than "wide" digital strategy focusing on excelling in direct communication, feedback loops, and post-sale engagement via accessible platforms like WhatsApp may yield the highest return on effort. This finding aligns with Mwesigwa and Namulindwa (2023) but quantifies the effect size with greater precision. It implies that theoretical models for SME digitalization in developing contexts should prioritize engagement as a core construct.

Practically, this means SME training programs should pivot from general "digital literacy" to specific "engagement literacy" teaching how to manage online inquiries, solicit and act on feedback, and build community. Policymakers should note that improving sustainability may depend less on subsidizing hardware and more on fostering digital communication skills.

7. Conclusion & Recommendations

This study conclusively demonstrates that Online Customer Engagement is a paramount and powerful predictor of Business Sustainability for SMEs in Kasese District. The strong, significant positive relationship indicates that SMEs which strategically prioritize interactive and responsive communication with customers online are substantially more likely to achieve long-term viability, growth, and resilience.

Recommendations:

For SME Owners/Managers: Systematize online customer engagement. Designate staff for prompt response to messages, implement a simple feedback collection process via digital channels, and use insights from online interactions to adapt services.

For Business Development Agencies (e.g., URA, PSFU): Design training modules focused specifically on "Digital Customer Relationship Management for SMEs," moving beyond basic platform setup to engagement strategies, reputation management, and service recovery online.

For Local Government (Kasese District): Integrate "digital engagement" metrics into local business excellence awards or recognition programs to incentivize quality over mere presence.

For Future Research: Investigate the moderating role of business sector (e.g., retail vs. hospitality) on the CE-BS relationship. Employ longitudinal designs to establish causality and explore the specific engagement tactics (e.g., response time, personalization level) that are most impactful.

8. References

Bindeeba, C., Tukamushaba, E., & Bakashaba, D. (2025). Digital commerce strategies and business resilience in rural Uganda. *Uganda Journal of Entrepreneurship and Innovation*, 6(1), 21–38.

Mwesigwa, J., & Namulindwa, S. (2023). Digital engagement and customer loyalty among SMEs in Uganda. *Makerere Business Review*, 16(1), 59–72.

Turinawe, D., & Asaba, J. (2024). Customer retention through digital communication in rural Uganda. *African Journal of Rural Business Studies*, 5(1), 18–33.

Venkatesh, V., Thong, J. Y. L., & Xu, X. (2012). Consumer acceptance and use of information technology: Extending the unified theory of acceptance and use of technology. *MIS Quarterly*, 36(1), 157–178.