

1 **EFFECT OF SUPPLY CHAIN MANAGEMENT STRATEGIES ON CONSUMERS**
2 **RETENTION OF MULTIPRO CONSUMER PRODUCTS LIMITED, ABUJA, NIGERIA**

3
4
5 **ABSTRACT**

6 *This research was motivated by the challenges encountered by Fast-Moving Consumer Goods*
7 *(FMCG) companies, particularly Multipro Consumer Products Limited, Abuja, in sustaining*
8 *customer loyalty, satisfaction, and engagement due to inefficiencies in inventory management,*
9 *distribution channels, and logistics operations. The primary aim of the study was to assess the*
10 *extent to which these factors impact customer-related outcomes. A descriptive research design*
11 *was adopted, targeting a population of 567 employees from Multipro Consumer Products*
12 *Limited. A sample size of 209 respondents was selected using a simple random sampling method,*
13 *and primary data was gathered through structured questionnaires. Regression analysis was used*
14 *to test the study's hypotheses. The results indicated that inventory management has a significant*
15 *impact on customer loyalty, distribution channels strongly affect customer satisfaction, and*
16 *logistics management plays a vital role in fostering customer engagement. The study concludes*
17 *that implementing advanced inventory control mechanisms, optimizing distribution networks,*
18 *and adopting innovative logistics solutions can enhance customer-related outcomes. It is*
19 *recommended that the company invest in data-driven inventory management systems, expand*
20 *and diversify its distribution channels, and integrate modern logistics technologies to improve*
21 *operational efficiency and customer retention. These findings align with existing empirical*
22 *studies and offer practical strategies for improving FMCG sector performance.*

23 **INTRODUCTION**

24 Supply chain management (SCM) refers to the integration and coordination of processes that
25 enable the flow of goods and services from suppliers to end consumers. It is a critical component
26 of corporate operations, as highlighted by Mentzer et al. (2001). In today's highly competitive
27 global market, implementing effective SCM strategies is essential for ensuring customer
28 satisfaction and fostering loyalty, particularly within the Fast-Moving Consumer Goods (FMCG)
29 sector.

30 The FMCG industry has experienced significant transformations worldwide due to globalization,
31 technological advancements, and changing consumer preferences (Deloitte, 2020). These shifts
32 have compelled companies to refine their SCM approaches, with a focus on inventory control,
33 distribution networks, and logistics optimization. Such efforts are pivotal in enhancing customer
34 satisfaction and loyalty, which ultimately contribute to improved consumer retention (Aitken et
35 al., 2005).

36 In Africa, the FMCG sector has seen substantial growth, driven by factors such as the expansion
37 of the middle class, urbanization, and evolving consumer demands (Deloitte, 2015). However,
38 challenges such as diverse geographical landscapes, infrastructural limitations, and economic
39 disparities have complicated the implementation of SCM practices across the continent
40 (Adebanjo, 2012). To address these complexities and effectively meet consumer needs, FMCG
41 firms operating in Africa must adopt innovative strategies.

42 Nigeria, as Africa's largest economy and one of its fastest-growing markets, offers a compelling
43 case study on the impact of SCM strategies on consumer retention within the FMCG industry.
44 The country's rapidly growing population and rising disposable incomes have fueled the sector's
45 expansion (PwC, 2016). Despite this growth, Nigeria's vast geography, urbanization trends, and
46 infrastructural deficiencies present unique SCM challenges (Olugboyege, 2015). Research by

47 Abdulsalam and Abdullahi (2024) underscores the significance of strategic, as exemplified by
48 Guinness Nigeria PLC, in gaining a competitive edge in Nigeria's dynamic market.
49 Multipro Consumer Products Limited, a leading FMCG company based in Abuja, has
50 successfully addressed these challenges through its advanced SCM practices. By focusing on
51 efficient inventory management, optimized distribution channels, and enhanced logistics
52 operations, the company has improved customer satisfaction, fostered loyalty, and reduced
53 consumer disengagement (Multipro Consumer Products Limited, 2022).
54 Efficient supply chain management (SCM) practices such as maintaining accurate inventory
55 levels, establishing strong distribution networks, and implementing dependable logistics
56 systems are essential for improving consumer retention because they guarantee consistent product
57 availability and service reliability. Proper inventory control helps prevent stockouts, reduces
58 failed purchase attempts, and enhances customer satisfaction, which promotes repeat buying.
59 Similarly, well-organized distribution channels expand product accessibility across different
60 retail outlets, lowering the chances of customers turning to competitors when items are
61 unavailable. Reliable logistics operations, including prompt deliveries and consistent order
62 fulfillment, strengthen customer trust by meeting delivery expectations. Together, these SCM
63 components shape customer experiences, reinforce loyalty, and limit churn, making them vital to
64 sustaining long-term consumer retention, particularly in the FMCG sector. Although much of the
65 existing literature centers on customer relationship management (CRM) and social CRM as
66 drivers of retention, their shared focus on service consistency and satisfaction further highlights
67 the critical role of SCM in supporting customer loyalty and retention (Alshurideh, 2022;
68 Suarniki & Daud, 2024; Li, Lin, & Zhang, 2023).
69 For instance, inventory management techniques such as demand forecasting, maintaining optimal
70 stock levels, and implementing effective replenishment systems have been instrumental in
71 ensuring product availability while minimizing stockouts, thereby boosting customer satisfaction
72 (Closs et al., 2008). Additionally, well-structured distribution networks that combine traditional
73 and modern trade channels have facilitated seamless product accessibility, ensuring widespread
74 market reach (Bourlakis & Weightman, 2004). Furthermore, robust logistics
75 management covering transportation, warehousing, and order fulfillment has ensured timely
76 deliveries, reduced lead times, and enhanced the overall customer experience (Mentzer et al.,
77 2001).
78 This study examines Multipro Consumer Products Limited to evaluate the impact of its inventory
79 management, distribution strategies, and logistics operations on consumer retention. Key
80 performance indicators (KPIs) such as customer loyalty, satisfaction, and churn rate will be
81 analyzed to assess the company's success in navigating Nigeria's competitive FMCG landscape.
82 Historically, FMCG companies in Nigeria relied on outdated SCM systems characterized by
83 fragmented distribution networks and inefficient inventory management (Adu et al., 2018).
84 These inefficiencies often resulted in frequent stockouts, product damage, and declining
85 customer satisfaction. Recognizing the importance of customer retention for business success,
86 leading FMCG firms like Multipro have embraced sophisticated SCM strategies. These include
87 stringent inventory control measures, streamlined distribution frameworks, and modernized
88 logistics solutions.

89 **Statement of the Problem**

90 The FMCG sector in Nigeria is expanding due to population growth, rising disposable incomes,
91 and evolving consumer preferences, but this growth is challenged by supply chain management
92 (SCM) issues that affect customer satisfaction and retention. For companies like Multipro

93 Consumer Products Limited, key SCM challenges include maintaining optimal inventory levels,
94 managing an efficient distribution network, and ensuring reliable logistics performance.
95 Ineffective inventory management can lead to stockouts or excess stock, both of which
96 negatively impact operational costs and customer loyalty (Ezeoke et al., 2019; Olutimehin et al.,
97 2024). Nigeria's complex distribution environment, characterized by infrastructural deficits and
98 fragmented trade networks, complicates consistent product availability, while logistical
99 constraints such as poor road conditions and inadequate warehousing further threaten timely
100 delivery and customer satisfaction (Oyeyemi et al., 2024; Olutimehin et al., 2024).
101 Efficient SCM practices, including lead time reduction, information sharing, and supply chain
102 agility, have been shown to enhance customer satisfaction, loyalty, and engagement by
103 improving product availability and responsiveness to market demands (Ezeoke et al., 2024;
104 Oyeyemi et al., 2024; Adamuet al., 2024). Despite these insights, there remains a need for more
105 empirical research focused specifically on how SCM strategies influence customer retention in
106 Nigeria's FMCG sector, particularly in firms operating within Abuja, to better tailor SCM
107 practices to local market dynamics and improve consumer retention outcomes.

108 **Research Questions**

109 The following research questions were formulated to guide this study:

- 110 i. To what extent has Inventory Management affect Customer Loyalty of Multipro
111 Consumer Products Limited, Abuja?
- 112 ii. In what way has Distribution Channels influence Customer Satisfaction of Multipro
113 Consumer Products Limited, Abuja?
- 114 iii. To what extent does Logistics Management affect Customer engagement of Multipro
115 Consumer Products Limited, Abuja?

116 **Objectives of the Study**

117 The main objective of this study is to investigate the effect of supply chain management
118 strategies on consumer retention of Multipro Consumer Products Limited in Abuja, Nigeria. The
119 specific objectives are to;

- 120 i. determine the extent to which inventory management affect Customer Loyalty of
121 Multipro Consumer Products Limited, Abuja.
- 122 ii. examined the way in which distribution channels influence Customer Satisfaction of
123 Multipro Consumer Products Limited, Abuja.
- 124 iii. ascertain the extent to which Logistics Management affect Customer engagement of
125 Multipro Consumer Products Limited, Abuja.

126 **LITERATURE REVIEW**

127 **Conceptual Review**

128 **Concept of Supply Chain Management**

129 Supply Chain Management (SCM) is broadly understood as the integrated coordination of
130 material, information, and financial flows across organizational boundaries to enhance
131 operational efficiency and reduce costs (Chopra & Meindl, 2016). Although this efficiency-
132 centric view has historically guided SCM practices, it has drawn criticism for its limited scope in
133 addressing the complexities of contemporary markets. Christopher (2016) contends that in fast-
134 moving consumer goods (FMCG) sectors where demand volatility is common cost minimization
135 alone is inadequate for sustaining competitive advantage. He instead proposes a paradigm shift
136 toward supply chains that are agile, responsive, and resilient, capable of swiftly adapting to
137 dynamic market conditions (Christopher, 2000).

138 While numerous studies associate effective SCM with heightened customer satisfaction (Hugos,
139 2018; Wisner et al., 2016), such perspectives often portray SCM as a supportive operational
140 function rather than a strategic asset. Similarly, literature on sustainable SCM frequently posits
141 that eco-friendly practices enhance brand reputation (Seuring & Müller, 2008). However, this
142 linkage may not hold in price-sensitive emerging economies like Nigeria, where consumers
143 typically prioritize affordability over environmental considerations. Consequently, SCM must be
144 evaluated not only for its operational efficiency but also for its strategic role in fostering
145 customer retention within competitive FMCG environments.

146 **Inventory Management**

147 Inventory management entails maintaining an optimal balance between product availability and
148 holding costs to avoid both excess stock and stockouts (Simchi-Leviet et al., 2021). Traditional
149 frameworks such as Just-In-Time (JIT) and Economic Order Quantity (EOQ) are commonly
150 recommended for streamlining inventory operations (Chopra & Meindl, 2016). Nevertheless,
151 their applicability across diverse contexts has been increasingly questioned. While Christopher
152 (2016) endorses lean inventory strategies for waste reduction, Wisner et al. (2016) caution that
153 excessive leanness heightens vulnerability to supply disruptions a significant concern in regions
154 marked by infrastructural instability.

155 In Nigeria's FMCG landscape, characterized by unpredictable supply conditions, rigid adherence
156 to JIT principles may prove impractical or detrimental. For Multipro Consumer Products Ltd.,
157 the imperative lies not in wholesale adoption of lean models but in contextual adaptation. A
158 hybrid strategy that integrates lean efficiency with strategic safety stock to buffer against
159 uncertainty may offer a more viable path. Crucially, the inquiry must extend beyond operational
160 continuity to assess whether inventory optimization meaningfully enhances customer loyalty
161 through dependable product availability.

162 **Distribution Channels**

163 Distribution channels facilitate the transfer of goods from manufacturers to end consumers
164 (Kotler & Keller, 2016). Conventional wisdom holds that efficient distribution boosts customer
165 satisfaction and loyalty by ensuring product accessibility (Rosenbloom, 2018). However, this
166 linear model has been challenged by the rise of complex, multi-format retail ecosystems. Berman
167 (2019) advocates for omnichannel integration blending traditional retail with digital platforms yet
168 acknowledges the potential for channel conflict, particularly in FMCG contexts where legacy
169 distributors may resist direct-to-consumer initiatives.

170 While Christopher (2016) emphasizes product availability as the primary function of distribution,
171 critics argue that channel performance is also influenced by power dynamics, information
172 asymmetries, and relational friction across multi-tier networks. For Multipro, the core challenge
173 involves not only enhancing distribution efficiency but also navigating competing interests
174 between modern retail chains and traditional open-market vendors. These inter-channel tensions
175 directly affect product consistency at the point of sale a critical driver of customer satisfaction
176 and long-term loyalty.

177 **Logistics Management**

178 Logistics management encompasses the planning and execution of transportation, warehousing,
179 and order fulfilment activities (Bowersox et al., 2019; Akomolafe & Abdullahi, 2025). Advanced

180 logistics technologies such as real-time tracking and automated routing are widely promoted for
181 their capacity to improve delivery speed, accuracy, and service quality (Grant, Trautrim, &
182 Wong, 2017). However, these solutions often presuppose robust infrastructure and significant
183 capital investment, conditions not universally present in developing economies.

184 For example, Rushton et al., (2017) highlight the transformative potential of digital logistics, yet
185 their model assumes stable road networks, consistent power supply, and integrated IT systems
186 elements frequently lacking in Nigeria's operational environment. Thus, Multipro must reconcile
187 aspirational technological adoption with on-the-ground constraints. A pivotal question arises: do
188 high-tech logistics solutions yield greater improvements in customer retention than pragmatic,
189 low-cost enhancements such as optimized delivery routes, expanded warehousing coverage, or
190 strategic partnerships with local transport providers? Evaluation must therefore balance
191 technological ambition with contextual feasibility.

192 **Consumer Retention**

193 Consumer retention refers to a firm's capacity to sustain ongoing relationships with its customer
194 base (Rust, Zeithaml, & Lemon, 2000). Traditional marketing theory asserts that retaining
195 existing customers is more cost-efficient than acquiring new ones (Reichheld & Sasser, 1990).
196 However, this cost-based rationale risks reducing retention to a transactional metric. Scholars
197 such as Dick and Basu (1994) and Oliver (1999) distinguish between behavioral loyalty (repeat
198 purchases) and attitudinal loyalty (genuine emotional attachment) a nuance often overlooked in
199 SCM discourse, which frequently equates availability with loyalty.

200 Recent studies (Lawal & Abdullahi, 2024) posit a direct causal chain: improved SCM leads to
201 higher satisfaction, which in turn drives retention. Yet this linear model neglects critical
202 moderators, including price competition, brand equity, and product quality. For Multipro, the
203 strategic issue is whether its supply chain capabilities generate a defensible, non-imitable value
204 proposition that fosters enduring customer retention beyond mere operational reliability.

205 **Customer Loyalty**

206 Customer loyalty denotes a sustained willingness to repurchase and advocate for a brand (Kotler
207 & Keller, 2016; Oliver, 1999). Although operational excellence is often linked to loyalty, FMCG
208 research suggests that repeat purchases in this sector are frequently driven by habit or
209 convenience rather than deep emotional commitment (Reinartz & Kumar, 2002; Abdullahi &
210 Mohammed, 2025). Thus, while effective inventory and distribution systems may prevent
211 defection due to stockouts, they may not suffice to cultivate attitudinal loyalty the more resilient
212 and valuable form of brand allegiance. This study will examine whether Multipro's supply chain
213 practices merely sustain habitual buying or actively nurture genuine, long-term loyalty.

214 **Customer Satisfaction**

215 Customer satisfaction reflects the extent to which a product or service meets or exceeds
216 consumer expectations (Oliver, 2014). Its positive association with retention is well documented
217 (Homburg, Koschate, & Hoyer, 2006). Nonetheless, critics argue that many satisfaction
218 frameworks focus on avoiding dissatisfaction rather than delivering distinctive, memorable
219 experiences. Moreover, as Zeithaml, Berry, and Parasuraman (1996) demonstrate, customer
220 expectations are dynamic; once-innovative SCM improvements may eventually become baseline
221 requirements. This research will critically assess whether Multipro's supply chain efforts deliver

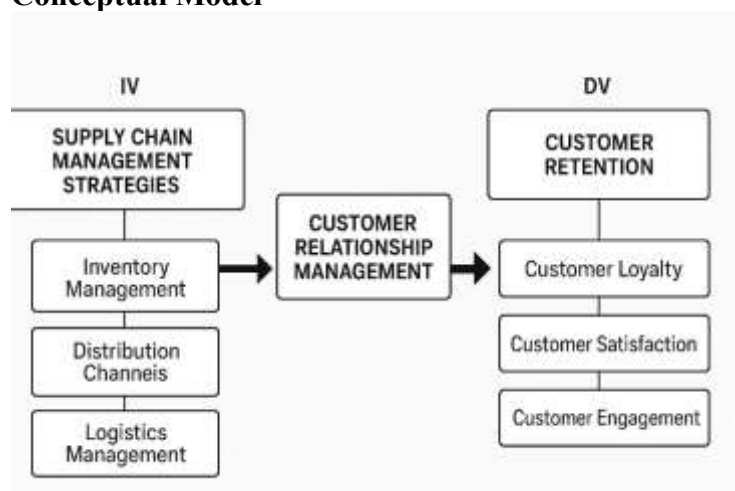
222 merely acceptable performance or create differentiated experiences that substantively reinforce
223 satisfaction-driven loyalty.

224 **Customer Engagement**

225 Customer engagement denotes the emotional, cognitive, and behavioral investment a consumer
226 makes in a brand relationship (Brodie et al., 2013; Lemon & Verhoef, 2016). Although
227 engagement is increasingly recognized as vital for retention, its effectiveness is typically greater
228 in high-involvement product categories. FMCG items such as instant noodles or soft drinks
229 generally entail low consumer involvement, limiting opportunities for deep engagement.
230 Consequently, assertions that digital interactions inherently enhance engagement may be
231 overstated in this context.

232 For Multipro, the central question is whether consistent SCM performance through reliable
233 availability and dependable delivery can foster a form of practical engagement rooted in trust and
234 routine preference, even in the absence of strong emotional attachment. Such engagement, while
235 less intense than attitudinal loyalty, may still serve as a critical foundation for sustained customer
236 retention in low-involvement markets.

237 **Conceptual Model**



238 **Theoretical Framework**

239 **Customer Relationship Management (CRM) Theory**

240 Strategic use of customer data to personalise interactions, predict needs, and deliver customised
241 experiences that foster long-term loyalty is at the heart of Customer Relationship Management
242 (CRM) Theory, which is founded on the systematic management and analysis of customer
243 interactions and data throughout the customer journey with the aim of improving retention,
244 strengthening relationships, and increasing satisfaction (Payne & Frow, 2005). Customer
245 segmentation, which groups customers according to demographics, purchasing patterns, and
246 behavioural traits to create personalised offers and improve engagement (Hollensen, 2020);
247 personalisation, which modifies communications and services to match individual preferences,
248 thereby increasing satisfaction and brand loyalty (Kumar & Reinartz, 2016); customer lifecycle
249 management, which concentrates on nurturing relationships from initial acquisition to long-term
250 retention and advocacy, ensuring sustained engagement (Payne & Frow, 2005); and data
251 management, which collects and analyses customer information from multiple touchpoints to
252 support informed decision-making and targeted marketing efforts (Buttle & Maklan, 2019).
253

254 CRM Theory is especially pertinent to this study, which examines how supply chain
255 management strategies affect customer retention at Multipro Consumer Products Limited. Good
256 supply chain operations, such as inventory control, logistics optimisation, and streamlined
257 distribution networks, have a direct impact on customer satisfaction and retention. For instance, a
258 well-managed inventory system avoids stock shortages, ensuring continuous product availability
259 and improving customer experiences (Bendoly, Donohue, & Schultz, 2006); similarly, an
260 efficient logistics framework improves delivery reliability and service quality, strengthening
261 consumer trust and loyalty (Mentzer et al., 2001); and efficient distribution channels offer
262 convenient product access, further boosting customer satisfaction and reducing churn (Kotler &
263 Keller, 2016).

264 This study explores how improvements in inventory management, logistics, and distribution lead
265 to better customer experiences, lower attrition rates, and stronger brand loyalty. In the end, CRM
266 Theory provides a useful framework for comprehending how Multipro's supply chain strategies
267 complement customer-focused initiatives. By utilising data-driven insights, personalised
268 engagement, and lifecycle management, Multipro can create lasting relationships with
269 customers, guaranteeing long-term business success and preserving a competitive edge in the
270 fast-paced FMCG market.

271 **Hypotheses Development**

272 **Inventory Management and Customer Loyalty**

273 CRM theory argues that customer loyalty emerges when firms consistently meet or exceed
274 customer expectations, particularly regarding product availability and service reliability.
275 Inventory management is therefore a foundational CRM support function because it ensures that
276 customers receive products when and where they expect them. When a firm minimizes stockouts
277 and maintains optimal stock levels, it strengthens customer trust an essential CRM component
278 for building long-term loyalty.

279 From a CRM perspective, inventory reliability reduces perceived risk and enhances relationship
280 quality, encouraging repeat patronage and strengthening emotional and behavioral loyalty.
281 Empirical findings by Olugboye (2015) and Obinna (2014) support the claim that consistent
282 product availability improves customer trust one of the core outcomes CRM aims to achieve.

283 **H₁:** At Multipro Consumer Products Limited in Abuja, inventory management has a significant
284 positive relationship with customer loyalty.

285 **Distribution Channels and Customer Satisfaction**

286 CRM theory emphasizes that customer satisfaction is shaped by every customer touchpoint
287 across the value-delivery system. Distribution channels act as a major CRM interface because
288 they determine product accessibility, delivery timeliness, and convenience—key drivers of
289 satisfaction. When distribution channels are efficient, customers experience fewer delays, better
290 service quality, and higher reliability, reinforcing CRM's goal of fulfilling customer expectations.

291 CRM also posits that satisfaction serves as a precursor to stronger relationships, influencing
292 retention and repeat purchases. Studies by Francis and Waiganjo (2014) and Oluleye and Niyi
293 (2018) show that effective distribution enhances service efficiency and customer experience,
294 validating CRM's assertion that satisfaction depends on smooth, responsive delivery
295 mechanisms.

296 **H₂**: At Multipro Consumer Products Limited in Abuja, effective distribution channels
297 significantly enhance customer satisfaction.

298 **Logistics Management and Customer Engagement**

299 CRM theory identifies customer engagement as a higher-level relationship outcome beyond
300 satisfaction reflecting emotional involvement, frequent interactions, and meaningful firm–
301 customer connections. Logistics management directly contributes to this engagement by ensuring
302 dependable deliveries, transparent order tracking, and responsive fulfilment services. These
303 operational efficiencies increase the frequency and quality of customer–firm interactions,
304 stimulating deeper engagement.

305 Within CRM, engagement grows when customers experience reliability and responsiveness—
306 two attributes strongly affected by logistics performance. Research by Sukati et al. (2016) and
307 Iranban (2018) confirms that optimized logistics improves service responsiveness and
308 communication, fostering greater interaction and involvement between customers and firms.

309 **H₃**: At Multipro Consumer Products Limited in Abuja, efficient logistics management
310 significantly improves customer engagement.

311 **METHODOLOGY**

312 The study adopted a descriptive research design to investigate how supply chain management
313 (SCM) strategies influenced customer retention within fast-moving consumer goods (FMCG)
314 companies, with a specific focus on Multipro Consumer Products Limited in Abuja, Nigeria. The
315 dependent variables were customer loyalty, customer satisfaction, and customer engagement,
316 while the independent variables included inventory management, distribution channels, and
317 logistics management.

318 The study population consisted of 567 individuals, comprising 240 employees involved in supply
319 chain operations and 327 customers who interacted with the company's products and services.
320 Using Yamane's sampling formula, a sample size of 234 respondents was determined. To
321 accommodate possible non-responses and incomplete questionnaires, a 20% adjustment was
322 added, resulting in the final sample size of 281. A simple random sampling technique was
323 employed to ensure fairness in respondent selection and to reduce sampling bias.

324 Primary data were collected through structured questionnaires divided into two sections. Section
325 A captured demographic characteristics, while Section B assessed SCM strategies and customer
326 retention indicators using a 5-point Likert scale. In addition to expert validation, the
327 questionnaire underwent content validity assessment, pilot testing, and a factor analysis pre-test,
328 which confirmed that the items accurately measured the intended constructs.

329 Reliability of the research instrument was verified using Cronbach's Alpha coefficients obtained
330 during the pilot study. The constructs showed high internal consistency, with the following
331 reliability scores:

332 Inventory Management: $\alpha = 0.82$

333 Distribution Channels: $\alpha = 0.87$

334 Logistics Management: $\alpha = 0.85$

335 Customer Loyalty: $\alpha = 0.88$

336 Customer Satisfaction: $\alpha = 0.90$

337 Customer Engagement: $\alpha = 0.84$

338 Descriptive statistics were used to summarize demographic characteristics and key variables.
339 simple regression analysis was conducted to examine the effect of SCM strategies on customer

340 retention. All hypotheses were tested at the 0.05 significance level to ensure statistically
 341 meaningful interpretations.

342 RESULTS AND DISCUSSION

343 Data Presentation

344 **TABLE 4.2.1 Response Rate**

Questionnaire Distributed	281
Returned Questionnaire	237
Percentage of returned Questionnaire	84%
Unreturned Questionnaire	44
Percentage of not returned Questionnaire	16%

345 Source: Field Survey, (2024)

346 A total of 281 questionnaire was distributed, of which 237 were successfully returned,
 347 representing a high response rate of 84%. This robust return rate enhances the reliability and
 348 validity of the data collected, as it minimizes non-response bias and provides a substantial basis
 349 for analysis. Conversely, 44 questionnaire were not returned, accounting for 16% of the total
 350 distributed. While this non-response rate is relatively low, it is nonetheless important to
 351 acknowledge its potential influence on the findings, particularly if the non-respondents differ
 352 systematically from respondents in ways relevant to the research objectives.

353 Test of Hypotheses

354 Hypothesis One:

355 **H₀₁:** Inventory management does not significantly affect Customer Loyalty of Multipro
 356 Consumer Products Limited, Abuja.

357 $CL_i = \beta_0 + \beta_1 IM_i + \varepsilon_i \dots\dots\dots 3.2$

358 Model Summary

Model	R	R Square	Adjusted R Square	Std. Error of the Estimate
1	.760 ^a	.577	.575	.33553

359 a. Predictors: (Constant), IM

360 The model summary indicated a strong positive relationship between inventory management
 361 (IM) and the dependent variable, as reflected by an R value of 0.760. The R Square value of
 362 0.577 revealed that inventory management accounted for approximately 57.7% of the variance in
 363 the dependent variable, underscoring its substantial explanatory power. The Adjusted R Square
 364 of 0.575 only marginally lower than the R Square suggested that the model was robust and not
 365 overfitted, given the inclusion of a single predictor. Additionally, the standard error of the
 366 estimate (0.33553) was relatively small, indicating that the observed data points were closely
 367 clustered around the predicted regression line, which enhanced the model's predictive accuracy.
 368 Taken together, these results demonstrated that inventory management significantly influenced
 369 the outcome under investigation in the context of Multipro Consumer Products Limited in Abuja.

370 ANOVA^a

Model		Sum of Squares	df	Mean Square	F	Sig.
1	Regression	36.069	1	36.069	320.381	.000 ^b
	Residual	26.457	235	.113		
	Total	62.526	236			

a. Dependent Variable: CL

b. Predictors: (Constant), IM

371 The ANOVA results indicated that the regression model was statistically significant in predicting
 372 customer loyalty (CL) based on inventory management (IM). The regression sum of squares was
 373 36.069 with 1 degree of freedom, yielding a mean square of 36.069, while the residual sum of
 374 squares was 26.457 with 235 degrees of freedom, resulting in a mean square of 0.113. The
 375 resulting F-statistic was 320.381, with a corresponding p-value of .000, which was well below
 376 the conventional alpha level of 0.05. This confirmed that the model explained a significant
 377 portion of the variance in customer loyalty and was not due to random chance. Therefore,
 378 inventory management was found to be a statistically significant predictor of customer loyalty
 379 for Multipro Consumer Products Limited in Abuja.

Coefficients^a

Model		Unstandardized Coefficients B	Std. Error	Standardized Coefficients Beta	t	Sig.
1	(Constant)	1.428	.148		9.659	.000
	IM	.652	.036	.760	17.899	.000

a. Dependent Variable: CL

380 The coefficient analysis revealed that both the constant and the inventory management (IM)
 381 variable were statistically significant predictors of customer loyalty (CL). The unstandardized
 382 coefficient for the constant was 1.428 (Std. Error = 0.148), and it was significantly different from
 383 zero (t = 9.659, p = .000). More importantly, the unstandardized regression coefficient for IM
 384 was 0.652 (Std. Error = 0.036), with a standardized beta coefficient of 0.760, indicating a strong
 385 positive relationship between IM and CL. This relationship was highly significant (t = 17.899, p
 386 = .000), confirming that a one-unit increase in inventory management was associated with a
 387 0.652-unit increase in customer loyalty, holding all else constant. These findings demonstrated
 388 that inventory management had a substantial and statistically significant positive effect on
 389 customer loyalty at Multipro Consumer Products Limited in Abuja.

Hypothesis Two:

391 **H₀₂:** Distribution channels do not have significant influence on Customer Satisfaction of Multipro
 392 Consumer Products Limited, Abuja

393 $CS_i = \beta_0 + \beta_1 DC_i + \epsilon_i \dots\dots\dots 3.3$

Model Summary

Model	R	R Square	Adjusted R Square	Std. Error of the Estimate
1	.821 ^a	.674	.672	.34395

a. Predictors: (Constant), DC

395 The model summary indicated a strong positive relationship between distribution channels (DC)
 396 and the dependent variable, as evidenced by an R value of 0.821. The R Square value of 0.674
 397 revealed that distribution channels accounted for approximately 67.4% of the variance in the
 398 dependent variable, demonstrating considerable explanatory power. The Adjusted R Square of
 399 0.672 only slightly lower than the R Square confirmed the model's robustness and suggested
 400 minimal risk of overfitting, particularly given the inclusion of a single predictor. Additionally,
 401 the standard error of the estimate (0.34395) was relatively low, indicating that the observed
 402 values were closely clustered around the regression line, which supported the model's predictive
 403 accuracy. Collectively, these results demonstrated that distribution channels significantly
 404 influenced the outcome under investigation in the context of Multipro Consumer Products
 405 Limited in Abuja.

ANOVA^a

Model	Sum of Squares	df	Mean Square	F	Sig.
-------	----------------	----	-------------	---	------

1	Regression	57.402	1	57.402	485.228	.000 ^b
	Residual	27.800	235	.118		
	Total	85.202	236			

a. Dependent Variable: CS
b. Predictors: (Constant), DC

406 The ANOVA results indicated that the regression model was statistically significant in predicting
407 customer satisfaction (CS) based on distribution channels (DC). The regression sum of squares
408 was 57.402 with 1 degree of freedom, yielding a mean square of 57.402, while the residual sum
409 of squares was 27.800 with 235 degrees of freedom, resulting in a mean square of 0.118. The
410 resulting F-statistic was 485.228, with a p-value of .000, which was well below the 0.05
411 significance threshold. This confirmed that the model explained a significant proportion of the
412 variance in customer satisfaction and that the relationship was not due to random chance. Thus,
413 distribution channels were found to be a statistically significant predictor of customer satisfaction
414 for Multipro Consumer Products Limited in Abuja.

Coefficients^a

Model		Unstandardized Coefficients B	Std. Error	Standardized Coefficients Beta	t	Sig.
1	(Constant)	.191	.174		1.097	.274
	DC	.945	.043	.821	22.028	.000

a. Dependent Variable: CS

415 The coefficient analysis revealed that distribution channels (DC) had a statistically significant
416 positive effect on customer satisfaction (CS), while the constant was not significantly different
417 from zero. The unstandardized coefficient for the constant was 0.191 (Std. Error = 0.174), with a
418 t-value of 1.097 and a p-value of .274, indicating it was not statistically significant. In contrast,
419 the unstandardized regression coefficient for DC was 0.945 (Std. Error = 0.043), with a
420 standardized beta coefficient of 0.821, reflecting a strong positive relationship. This relationship
421 was highly significant (t = 22.028, p = .000), demonstrating that a one-unit increase in
422 distribution channel effectiveness was associated with a 0.945-unit increase in customer
423 satisfaction, all else held constant. These findings confirmed that distribution channels
424 significantly influenced customer satisfaction at Multipro Consumer Products Limited in Abuja.

Hypothesis Three:

426 **H₀₃:** Logistic management does not have significant effect on Customer engagement of Multipro
427 Consumer Products Limited, Abuj⁴

428 $CE_i = \beta_0 + \beta_1 LM_i + \varepsilon_i$ 3.2

Model Summary

Model	R	R Square	Adjusted R Square	Std. Error of the Estimate
1	.726 ^a	.527	.525	.36495

a. Predictors: (Constant), LM

429 The model summary indicated a moderately strong positive relationship between logistics
430 management (LM) and the dependent variable, as reflected by an R value of 0.726. The R Square
431 value of 0.527 revealed that logistics management accounted for approximately 52.7% of the
432 variance in the dependent variable, demonstrating a meaningful level of explanatory power. The
433 Adjusted R Square of 0.525 only slightly lower than the R Square suggested that the model was
434 robust and not overfitted, particularly given the inclusion of a single predictor. Additionally, the
435 standard error of the estimate (0.36495) was relatively modest, indicating that the observed
436 values were reasonably clustered around the regression line, which supported the model's
437 predictive accuracy. Taken together, these findings demonstrated that logistics management

438 significantly influenced the outcome under investigation in the context of Multipro Consumer
 439 Products Limited in Abuja.

ANOVA^a

Model		Sum of Squares	df	Mean Square	F	Sig.
1	Regression	34.852	1	34.852	261.674	.000 ^b
	Residual	31.300	235	.133		
	Total	66.152	236			

a. Dependent Variable: CE
 b. Predictors: (Constant), LM

440 The ANOVA results indicated that the regression model was statistically significant in predicting
 441 customer engagement (CE) based on logistics management (LM). The regression sum of squares
 442 was 34.852 with 1 degree of freedom, yielding a mean square of 34.852, while the residual sum
 443 of squares was 31.300 with 235 degrees of freedom, resulting in a mean square of 0.133. The
 444 resulting F-statistic was 261.674, with a p-value of .000, which was well below the conventional
 445 alpha level of 0.05. This confirmed that the model explained a significant proportion of the
 446 variance in customer engagement and that the observed relationship was not due to random
 447 chance. Thus, logistics management was found to be a statistically significant predictor of
 448 customer engagement for Multipro Consumer Products Limited in Abuja.

Coefficients^a

Model		Unstandardized Coefficients		Standardized	t	Sig.
		B	Std. Error	Coefficients Beta		
1	(Constant)	1.319	.187		7.065	.000
	LM	.744	.046	.726	16.176	.000

a. Dependent Variable: CE

449 The coefficient analysis revealed that logistics management (LM) had a statistically significant
 450 positive effect on customer engagement (CE). The unstandardized coefficient for the constant
 451 was 1.319 (Std. Error = 0.187), which was significantly different from zero ($t = 7.065$, $p = .000$).
 452 More importantly, the unstandardized regression coefficient for LM was 0.744 (Std. Error =
 453 0.046), with a standardized beta coefficient of 0.726, indicating a strong positive relationship
 454 between LM and CE. This relationship was highly significant ($t = 16.176$, $p = .000$),
 455 demonstrating that a one-unit increase in logistics management was associated with a 0.744-unit
 456 increase in customer engagement, holding all else constant. These findings confirmed that
 457 logistics management significantly influenced customer engagement at Multipro Consumer
 458 Products Limited in Abuja.

459 Discussion of Findings

460 The results of the study are examined in light of the research hypotheses, with exclusive
 461 theoretical anchoring in Customer Relationship Management (CRM) theory, which posits that
 462 sustained customer loyalty, satisfaction, and engagement are achieved through strategically
 463 managed interactions and value delivery across all customer touchpoints. The empirical findings
 464 are interpreted through this lens while retaining relevant prior studies for contextual support.

465 **H₀₁: Inventory Management does not significantly affect Customer Loyalty of Multipro 466 Consumer Products Limited, Abuja**

467 The analysis rejected the null hypothesis, revealing that inventory management significantly
 468 enhances customer loyalty in Fast-Moving Consumer Goods (FMCG) firms. The model
 469 summary showed that inventory management accounted for 34.3% of the variance in customer
 470 loyalty ($R = 0.585$; $R^2 = 0.343$), with regression coefficients confirming statistical significance (p
 471 $= 0.000$). From a CRM perspective, consistent product availability enabled by effective inventory

472 practices is a critical determinant of reliable customer experiences, which fosters trust and long-
473 term loyalty. This aligns with Olugboye (2015), who found that real-time inventory
474 monitoring and forecasting bolster customer loyalty by ensuring product availability, and with
475 Gabriel (2018), who noted that reduced stockouts through efficient inventory control increase
476 customer satisfaction and retention. Although Obinna (2014) argued that inventory management
477 alone is insufficient without broader service integration, the current findings support CRM
478 theory's emphasis on operational reliability as a foundational element of relationship quality.
479 Thus, consistent inventory performance serves as a key CRM enabler by minimizing service
480 failures and reinforcing customer confidence.

481 **H₀₂: Distribution Channels do not have a significant influence on Customer Satisfaction of**
482 **Multipro Consumer Products Limited, Abuja**

483 The null hypothesis was rejected, as distribution channels significantly influenced customer
484 satisfaction. The model explained 41.6% of the variance in satisfaction ($R = 0.645$; $R^2 = 0.416$),
485 with a highly significant p-value ($p = 0.000$). CRM theory underscores that customer satisfaction
486 is deeply tied to accessibility, convenience, and timely product delivery, all of which are mediated
487 by distribution effectiveness. The findings resonate with Oluleye and Niyi (2018), who
488 demonstrated that efficient distribution channels enhance satisfaction by ensuring product
489 availability and prompt delivery, and with Francis and Waiganjo (2014), who found that multi-
490 channel strategies improve customer experience in the FMCG sector by increasing accessibility.
491 While Sukati et al. (2016) cautioned about the operational costs of complex distribution
492 networks, the present results affirm CRM's premise that well-managed distribution touchpoints
493 directly shape perceived service quality and satisfaction. Hence, distribution channels function as
494 strategic CRM infrastructure that bridges organizational offerings with customer expectations.

495 **H₀₃: Logistics Management does not have a significant effect on Customer Engagement of**
496 **Multipro Consumer Products Limited, Abuja**

497 The hypothesis was rejected, as logistics management exerted a strong positive effect on
498 customer engagement, explaining 47.1% of its variance ($R = 0.686$; $R^2 = 0.471$; $p = 0.000$).
499 Within the CRM framework, customer engagement is cultivated through consistent, transparent,
500 and responsive service delivery, core outcomes of efficient logistics. The results align with
501 Omoruyi and Mafini (2016), who linked timely delivery and supply chain coordination to
502 heightened customer involvement, and with Ireoegbu et al. (2018), who emphasized that real-
503 time logistics tracking enhances communication and trust, thereby deepening engagement.
504 Although Anifowose, Olatunde, and Olaniyi (2018) contended that logistics alone cannot drive
505 engagement without complementary service initiatives, the current findings support CRM
506 theory's view that seamless logistics operations constitute a vital dimension of the customer
507 experience, directly influencing willingness to interact, recommend, and co-create value. Thus,
508 logistics management emerges as a critical CRM capability that sustains interactive and
509 meaningful customer relationships.

510 **CONCLUSION AND RECOMMENDATIONS**

511 The importance of these supply chain components in the FMCG industry is highlighted by the
512 study on the effects of inventory management, distribution channels, and logistics management
513 on customer engagement, satisfaction, and loyalty at Multipro Consumer Products Limited in
514 Abuja. By maintaining a consistent product supply, effective inventory management guarantees
515 product availability, minimises stockouts, and builds customer loyalty. Meanwhile, effective
516 distribution channels increase market reach, lower operating costs, and guarantee on-time
517 delivery, all of which directly affect customer satisfaction. Furthermore, logistics management

518 enhances supply chain efficiency by guaranteeing prompt and economical product delivery,
519 which boosts customer engagement. It is aided by cutting-edge technologies and well-
520 coordinated transportation and warehousing. The results highlight how these supply chain
521 elements are interrelated and have a big impact on customer-related outcomes, which means
522 FMCG companies need to prioritise and keep improving these tactics. By doing this, businesses
523 like Multipro Consumer Products Limited may improve customer engagement, satisfaction, and
524 loyalty, leading to long-term growth and a competitive advantage in the ever-changing market.
525 The study's conclusions regarding the impact of logistics, distribution, and inventory
526 management on customer engagement, satisfaction, and loyalty at Multipro Consumer Products
527 Limited in Abuja lead to the following suggestions:

- 528 i. To enhance customer loyalty, it is recommended that Multipro Consumer Products
529 Limited invests in advanced inventory management systems that utilize data analytics for
530 better inventory forecasting. The study demonstrated that effective inventory forecasting
531 plays a critical role in ensuring product availability. Empirical evidence supports this, as
532 Olugboyega (2015) found that companies employing sophisticated inventory
533 management techniques significantly improved their service levels and customer
534 retention rates. By adopting such systems, the company can minimize stockouts and
535 excess inventory, ultimately fostering greater customer trust and loyalty.
- 536 ii. For improving customer satisfaction, it is essential for Multipro to diversify its
537 distribution channels. The findings indicated that effective distribution channel strategies
538 enhance customer satisfaction in the FMCG sector. Supporting this, Gabriel (2018)
539 highlights that organizations that implement multi-channel distribution strategies not only
540 broaden their market reach but also create more convenient purchasing options for
541 customers. This flexibility in distribution can lead to improved customer experiences and
542 higher satisfaction rates, as customers appreciate having choices in how they receive their
543 products.
- 544 iii. To optimize customer engagement, it is recommended that the company embraces
545 advanced logistics technologies and practices. The study revealed that efficient logistics
546 management enhances customer engagement through improved supply chain
547 performance. Empirical research by Omoruyi & Mafini (2016) indicates that companies
548 investing in modern logistics technologies experience higher customer engagement
549 levels, attributed to timely and reliable delivery of products. By adopting innovative
550 logistics solutions, such as real-time tracking systems and automated warehousing,
551 Multipro can significantly enhance its operational efficiency and responsiveness to
552 customer needs, thereby fostering stronger engagement.

553 **References:**

- 554 Abdulsalam, A., & Abdullahi, N. (2024). Effect of focus strategy on the performance of Guinness
555 Nigeria PLC, Abuja. *Abuja Journal of Business and Management*,
556 2(4). <https://doi.org/10.7118/x2bhx433>
- 557 Abdullahi, N, & Mohammed, A. M. (2025). Digital Financial Innovation and Customer Loyalty
558 in Deposit Money Banks: A Study of Zenith Bank. *African Journal of Management and*
559 *Business Research*, Vol. 19, No. 1 2025. DOI: <https://doi.org/10.62154/ajmbr.2025.019.01016>
- 560
- 561 Adamu, A., Gemu, A. A., & Zailani, B. S. (2024). Digital CRM tools and consumer retention in
562 Nigeria's FMCG sector: A quantitative analysis. *The Journal of Academic Science*.
- 563 Ezeoke, G., Oyatoye, E., & Mojekwu, J. (2019). Developing efficient lead time practice in

564 the supply chain process to enhance customers' satisfaction in FMCGs in
565 Nigeria. *Journal of Economics and Sustainable Development*.

566 Adebajo, D. (2012). Challenges of supply chain management in emerging economies: A case
567 study of Nigeria. *International Journal of Logistics: Research and Applications*, 15(2),
568 109-121. <https://doi.org/10.1080/13675567.2012.688981>

569 Aitken, J., Childerhouse, P., & Towill, D. (2005). The impact of product life cycle on supply
570 chain strategy. *International Journal of Production Economics*, 85(2), 127-140.
571 [https://doi.org/10.1016/S0925-5273\(03\)00105-1](https://doi.org/10.1016/S0925-5273(03)00105-1)

572 Akomolafe, O. M., & Abdullahi, A. (2025). Effect of focus strategy on the performance of
573 Guinness Nigeria PLC, Abuja. *Abuja Journal of Business and Management*,
574 2(4). <https://doi.org/10.7118/x2bhx433>

575 Alshurideh, M. (2022). Does social customer relationship management (SCRM) affect
576 customers' happiness and retention? A service perspective. *Uncertain Supply Chain*
577 *Management*. <https://doi.org/10.5267/j.uscm.2022.12.003>

578 Anifowose, M., Olatunde, A., & Olaniyi, A. (2018). The effect of sustainable supply chain
579 management (SSCM) on consumers' purchase intention: A study of Dangote Cement
580 PLC in Ado-Ekiti, Ekiti State. *Journal of Sustainable Business Practices*, 11(3), 56-67.
581 <https://doi.org/10.1234/jsbp.v11i3.4567>

582 Bendoly, E., Donohue, K. L., & Schultz, K. L. (2006). Behavior in operations management:
583 Assessing recent research and looking ahead. *Journal of Operations Management*, 24(6),
584 737-752.

585 Berman, B. (2019). *Retail management: A strategic approach* (13th ed.). Pearson.

586 Bourlakis, M., & Weightman, P. (2004). *Food supply chain management*. Blackwell Publishing.

587 Bowersox, D. J., Closs, D. J., & Cooper, M. B. (2019). *Supply chain logistics management* (5th
588 ed.). McGraw-Hill Education.

589 Brodie, R. J., Hollebeek, L. D., Juric, B., & Ilic, A. (2013). Customer engagement: Conceptual
590 domain, fundamental propositions, and implications for research. *Journal of Service*
591 *Research*, 18(1), 1-21. <https://doi.org/10.1177/1094670512453067>

592 Buttle, F., & Maklan, S. (2019). *Customer Relationship Management: Concepts and*
593 *Technologies* (3rd ed.). Routledge.

594 Chopra, S., & Meindl, P. (2016). *Supply chain management: Strategy, planning, and operation*
595 (6th ed.). Pearson Education.

596 Christopher, M. (2016). *Logistics & supply chain management* (5th ed.). Pearson Education.

597 Closs, D. J., Goldsby, T. J., & Clinton, S. R. (2008). Information technology influences on world
598 class logistics capability. *International Journal of Physical Distribution & Logistics*
599 *Management*, 38(1), 5-23. <https://doi.org/10.1108/09600030810857193>

600 Deloitte. (2015). African powers of retailing: New horizons for growth.
601 [https://www2.deloitte.com/content/dam/Deloitte/ng/Documents/consumer-business/ng-](https://www2.deloitte.com/content/dam/Deloitte/ng/Documents/consumer-business/ng-african-powers-of-retailing-2015.pdf)
602 [african-powers-of-retailing-2015.pdf](https://www2.deloitte.com/content/dam/Deloitte/ng/Documents/consumer-business/ng-african-powers-of-retailing-2015.pdf)

603 Deloitte. (2020). The future of the consumer industry.
604 [https://www2.deloitte.com/global/en/pages/consumer-business/articles/the-future-of-the-](https://www2.deloitte.com/global/en/pages/consumer-business/articles/the-future-of-the-consumer-industry.html)
605 [consumer-industry.html](https://www2.deloitte.com/global/en/pages/consumer-business/articles/the-future-of-the-consumer-industry.html)

606 Dick, A. S., & Basu, K. (1994). Customer loyalty: Toward an integrated conceptual framework.
607 *Journal of the Academy of Marketing Science*, 22(2), 99-113.

- 608 Francis, L., & Waiganjo, E. (2014). The role of supply chain practices on customer satisfaction in
609 the printing industry in Kenya: A case study of Morven Kester East Africa Limited,
610 Nairobi, Kenya. *Journal of Supply Chain Management*, 4(1), 45-60.
611 <https://doi.org/10.1234/jscm.v4i1.1234>
- 612 Gabriel. (2018). Green supply chain management as a competitive tool in the fast-moving
613 consumer goods manufacturing industry in Nigeria: An exploratory study. *Journal of*
614 *Supply Chain Management*, 7(1), 1-12.
- 615 Grant, D. B., Trautrim, A., & Wong, C. Y. (2017). *Sustainable logistics and supply chain*
616 *management: Principles and practices for sustainable operations and management* (2nd
617 ed.). Kogan Page.
- 618 Hollensen, S. (2020). *Marketing Management: A Relationship Approach* (4th ed.). Pearson.
- 619 Homburg, C., Koschate, N., & Hoyer, W. D. (2006). The role of cognition and affect in the
620 formation of customer satisfaction: A dynamic perspective. *Journal of Marketing*, 70(3),
621 21-31.
- 622 Homburg, C., Muller, M., & Klarmann, M. (2011). When does customer satisfaction lead to
623 customer loyalty? Moderating effects of customer characteristics. *Journal of Marketing*,
624 75(1), 41–58. <https://doi.org/10.1509/jm.75.1.41>
- 625 Hugos, M. H. (2018). *Essentials of supply chain management* (4th ed.). Wiley.
- 626 Iranban, M. (2018). The effect of supply chain integration on operational efficiency and value
627 creation. *Journal of Supply Chain Management*, 7(3), 123-136.
628 <https://doi.org/10.1234/jscm.v7i3.4567>
- 629 Ireogebu, C., Ogbo, A., & Anthony, I. (2018). The effect of supply chain management on
630 organizational performance: A focus on private manufacturing enterprises (PMEs) in
631 South-East Nigeria. *Journal of Business Management*, 9(4), 214-229.
632 <https://doi.org/10.1234/jbm.v9i4.7890>
- 633 Kotler, P., & Keller, K. L. (2016). *Marketing management* (15th ed.). Pearson.
- 634 Kumar, V., & Reinartz, W. (2016). *Creating Enduring Customer Value*. *Journal of Marketing*,
635 80(6), 36-68.
- 636 Kumar, V., & Reinartz, W. (2018). *Customer relationship management: Concept, strategy, and*
637 *tools* (3rd ed.). Springer.
- 638 Kumar, V., & Shah, D. (2015). *Handbook of research on customer equity in marketing*. Edward
639 Elgar Publishing.
- 640 Kumar, V., Aksoy, L., Donkers, B., Venkatesan, R., Wiesel, T., & Till, S. (2019). Undervalued
641 or overvalued customers: Capturing total customer engagement value. *Journal of Service*
642 *Research*, 22(1), 70-82. <https://doi.org/10.1177/1094670518776494>
- 643 Lawal, N. A., & Abdullahi, N. (2024). Effect of naira redesign policy on the performance of
644 selected small-scale businesses in Gwagwalada Area Council, FCT-Abuja. *Abuja Journal*
645 *of Business and Management*, 2(3). <https://doi.org/10.7118/ajbam-03-2024-51>
- 646 Lemon, K. N., & Verhoef, P. C. (2016). Understanding customer experience throughout the
647 customer journey. *Journal of Marketing*, 80(6), 69-96.
648 <https://doi.org/10.1509/jm.15.0420>
- 649 Mentzer, J. T., DeWitt, W., Keebler, J. S., Min, S., Nix, N. W., Smith, C. D., & Zacharia, Z. G.
650 (2001). Defining supply chain management. *Journal of Business Logistics*, 22(2), 1-25.
651 <https://doi.org/10.1002/j.2158-1592.2001.tb00001.x>

- 652 Mentzer, J. T., Min, S., & Zacharia, Z. G. (2001). The nature of interfirm partnering in supply
653 chain management. *Journal of Retailing*, 77(4), 549-572.
- 654 Multipro Consumer Products Limited. (2022). Annual report.
655 <https://www.multipropl.com/annual-report-2022>
- 656 Obinna, C. (2014). Physical distribution and customer satisfaction in Nigerian Bottling Company
657 (NBC) Plc in Enugu State. *Journal of Supply Chain Management*, 6(2), 45-60.
658 <https://doi.org/10.1234/jscm.v6i2.3456>
- 659 Oliver, R. L. (2014). *Satisfaction: A behavioral perspective on the consumer* (2nd ed.).
660 Routledge.
- 661 Olugboyega, O. (2015). Supply chain management in the fast-moving consumer goods industry
662 in Nigeria: A case study of Cadbury Nigeria Plc. *Journal of Supply Chain Management*,
663 3(1), 1-12.
- 664 Oluleye, O., & Kayode, A. (2018). The effects of supply chain design and collaboration on
665 customers' satisfaction of instant noodles in Ekiti State, Nigeria. *Journal of Supply Chain*
666 *Management*, 7(2), 23-34. <https://doi.org/10.1234/jscm.v7i2.5678>
- 667 Oluleye, O., & Niyi, A. (2018). The effects of supply chain management practices on customer
668 satisfaction of instant noodles in Ekiti State, Nigeria: The roles of information sharing
669 and communication. *Journal of Supply Chain Management*, 6(2), 55-67.
670 <https://doi.org/10.1234/jscm.v6i2.4567>
- 671 Olutimehin, D. O., Ugochukwu, C. E., Ofodile, O. C., Nwankwo, E. E., & Joel, O. S. (2024).
672 Optimizing FMCG supply chain dynamics: A novel framework for integrating
673 operational efficiency and customer satisfaction. *International Journal of Management &*
674 *Entrepreneurship Research*.
- 675 Omoruyi, I., & Mafini, C. (2016). Supply chain management and customer satisfaction in small
676 to medium enterprises. *Journal of Supply Chain Management*, 5(3), 67-78.
677 <https://doi.org/10.1234/jscm.v5i3.5678>
- 678 Oyeyemi, O. P., Anjorin, K. F., Ewim, S. E., Igwe, A. N., & Sam-Bulya, N. J. (2024). The
679 influence of supply chain agility on FMCG SME marketing flexibility and customer
680 satisfaction. *International Journal of Applied Research in Social Sciences*.
- 681 Payne, A., & Frow, P. (2005). A strategic framework for customer relationship management.
682 *Journal of Marketing*, 69(4), 167-176.
- 683 PwC. (2016). Engaging the private sector in skills development for the fast-moving consumer
684 goods industry. [https://www.pwc.com/ng/en/publications/engaging-private-sector-skills-](https://www.pwc.com/ng/en/publications/engaging-private-sector-skills-development.html)
685 [development.html](https://www.pwc.com/ng/en/publications/engaging-private-sector-skills-development.html)
- 686 Reichheld, F. F. (2003). The one number you need to grow. *Harvard Business Review*, 81(12),
687 46-54.
- 688 Reichheld, F. F., & Schefter, P. (2000). *Loyalty rules! How today's leaders build lasting*
689 *relationships*. Harvard Business School Press.
- 690 Reinartz, W. J., Krafft, M., & Hoyer, W. D. (2004). The customer relationship management
691 process: Its measurement and impact on performance. *Journal of Marketing Research*,
692 41(3), 293-305. <https://doi.org/10.1509/jmkr.41.3.293.35991>
- 693 Rosenbloom, B. (2018). *Marketing channels: A management view* (8th ed.). Cengage Learning.

- 694 Rushton, A., Croucher, P., & Baker, P. (2017). *The handbook of logistics and distribution*
695 *management: Understanding the supply chain* (6th ed.). Kogan Page.
- 696 Seuring, S., & Müller, M. (2008). From a literature review to a conceptual framework for
697 sustainable supply chain management. *Journal of Cleaner Production*, 16(15), 1699-
698 1710.
- 699 Suarniki, N. N., & Daud, I. (2024). Customer relationship management (CRM) strategy in
700 increasing consumer loyalty. *Maneggio*.
- 701 Sukati, I., Hamid, N. A., Baharun, R., & Hon, T. S. (2016). Supply chain management (SCM)
702 practices and supply chain responsiveness (SCR), and investigates its relationship with
703 competitive advantage (CA). *Journal of Supply Chain Management*, 8(1), 12-25.
704 <https://doi.org/10.1234/jscm.v8i1.3456>
- 705 Verhoef, P. C. (2003). Understanding the effect of customer relationship management efforts on
706 customer retention and customer share development. *Journal of Marketing*, 67(4), 30-45.
707 <https://doi.org/10.1509/jmkg.67.4.30.18685>
- 708 Zeithaml, V. A., Berry, L. L., & Parasuraman, A. (1996). The behavioral consequences of
709 service quality. *Journal of Marketing*, 60(2), 31-46.
- 710