

ELECTRONIC MARKETING AND ITS EFFECT ON ORGANIZATIONAL PERFORMANCE (A STUDY OF SELECTED FIVE MANUFACTURING COMPANIES IN OYO STATE, NIGERIA)

Abstract

The information age holds a number of daunting challenges for modern organizations, and more specifically, modern marketers. These challenges have contributed towards a fast-changing and more complex environment for organizations. This study examines the impact of E-marketing on performance of the selected business organizations in Oyo State, Nigeria. Purposive method was used to select five manufacturing companies operating in Oyo State while simple random sampling technique was used to select fifty respondents for the study. Data collected through structured questionnaire was analysed with the aid of Mean and Regression Analysis. Results of analysis show that e-marketing has significant impact on organizational performance measured by effective decision making, customer satisfaction and sales volume. The study also confirms that unstable power supply, lack of government support, low level of education of the owners/managers of business organizations and Security of documents through e-commerce are major threats to the success of e-marketing adoption. Study concludes that the survival of business organizations, especially in this global competitive environment, pivots on e-marketing. Subsequently, the study recommends that government should provide enabling environment for e-commerce to triumph in Nigeria. Also, management of Nigerian business organizations should establish e-marketing unit, administratively and financially separate and independent from marketing department, and give it a prominent place in the organizational structure, to be able to perform its functions without associating with the marketing management or other administrations in the company.

Keywords: E-Marketing, Decision Making, Customer Satisfaction, Information Technology, Manufacturing, Nigeria.

Introduction

Electronic Marketing (E-Marketing) has been recognised by scholars and professionals in the field of marketing as a factor that plays an important role in raising the efficiency of economic performance to the companies in highly competitive markets, through providing the necessary information for the various administrative levels. The emerging of e-

40 marketing has made business organizations to be information oriented by using internet
41 technologies including use of multimedia, graphics, text etc with different languages to create
42 catchy advertisements, forms, e-shop where product can be viewed, promoted and sold.
43 Turkaman (2012) observes that e-marketing has completely improved organizations
44 performance in term of clientele, profitability, efficiency, effectiveness and it is considered as
45 a competitive advantage. According to Hooda and Aggarwal (2012), e - marketing does not
46 simply entail building or promoting a website, nor does it mean placing a banner advert on
47 another website. It includes advertisement (flash, text, graphics, audio or video), product
48 display, product navigation, 3-D products view, basket selection, checkout and payment. E-
49 marketing & internet marketing terms are used in the same sense. This form of marketing is
50 equally applicable in most of the business models; such as e-commerce, publishing Services
51 and affiliate marketing.

52 Studies also affirm that e-marketing has rapidly changed the way people do business
53 globally. Clientele, business-to-consumer segment, business-to-business segment, sales
54 through the web have increased geometrically over the last few years (Kotler & Keller, 2012;
55 Li, Mcleod & Rogers, 2013). Marketing information systems enable marketing and sales
56 managers to identify, interpret, and react to competitive signals and are key elements leading
57 to efficient marketing strategies and sales promotion strategies (Prabhu & Stewart, 2005).

58 The quest to exploit the e-marketing benefits, has become strong motivation for the
59 utilisation of e-marketing by business organizations, all over the world, Nigeria is not an
60 exception. The utilization of e-marketing in Nigeria is till at infancy stage. Ibene and Obi
61 (2001) confirm that only large organisations and in particular, the financial institutions and
62 the publishing houses started to adopt some form of e-marketing such as the use of e-mail and
63 e-payment.

64 However, Moniei and Najafzadeh (2015) argue that e-marketing holds a number of
65 daunting challenges for modern organizations, and more specifically, modern marketers.
66 These challenges have contributed towards a fast-changing and more complex environment
67 for organizations. Ezekiel, Eze and Anyadighibe (2013) also observe that many organizations
68 particularly in Nigeria are moribund due to the wave of information technology. People have
69 hesitations in using e-marketing due to security concerns, lack of physical approach towards
70 product offered, and delay in product delivery along with price and quality concerns.
71 Moreover, people are more resistant to change and not easily adaptable to newer technology.
72 Generally, organizations worldwide experience the same kinds of information problems,
73 which are more intensive in developing countries. They are hampered by asymmetry
74 information and knowledge (Silvance, 2012), which plays a key role in coping with change,
75 and may be a possible reason for the poor performance in satisfying customer requirements.

76 The questions bordering the minds of researchers are; is there any significant
77 relationship between e-marketing and organizational performance measured by effective
78 decision making, sales volume and customer satisfaction? What are daunting challenges
79 preventing business organizations from adopting e-marketing in Nigeria?

80 **Research Objectives**

81 The main objective of this study is to examine the effect of e-marketing on organization
82 performance with particular reference to selected manufacturing companies in Oyo state,
83 Nigeria. The specific objectives are to;

- 84 i. Determine the impact of e-marketing on effective decision making in business
85 organizations in Oyo State, Nigeria.
- 86 ii. Examine the influence of e-marketing on sale volume of business organizations in
87 Oyo State, Nigeria.

iii. Assess the effect of e-marketing on customer satisfaction in business organizations in Oyo State, Nigeria.

iv. To identify daunting factors preventing adoption of e-marketing by business organizations in Oyo State, Nigeria.

Research Hypotheses

H₀₁: E-Marketing has no significant impact on effective decision making.

H₀₂, E-Marketing has no significant influence on sales volume.

H₀₃ E-Marketing has no significant effect on customer satisfaction.

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Review of Related Literature

The concept of e-marketing has no formal links with any specific technology, and is regarded by early exponents to be a conceptual system, in which the flow of information is the essential element. Technology plays a secondary role. However, Information Technology (IT) has developed so rapidly, and has become so prevalent in organizations, that virtually all decisions involve some interactions with technology. Also, the marketing function promises to benefit greatly through the use of IT (Moriarty & Swartz, 1989). Based on above reasons, it is impossible to conduct any study of e-marketing without taking into account the role of technology. The focus of the e-marketing is information, often 'creating' data by various collection methods such as marketing research and market intelligence programs. It provides the marketing decision-maker with data in general and summarized format. The burden is on the decision-maker to select the useful information. Mohan and Holstein (2014) describe this situation as an overload of data, but with a lack of meaningful information. The e-marketing developed after the enthusiastic reception of management information systems (Li, Mcleod & Rogers, 2013). Kotler and Keller (2012) define e-marketing as an interacting structure of people, equipment and procedures to gather sort, analyze, evaluate and distribute, timely and

113 accurate information for use by marketing decision makers to improve their marketing
114 planning, implementation, and control.

115 In order to gain a deeper understanding of the functioning of an e-marketing, it is
116 useful to understand the components of marketing information. Kotler (2008) and Pitt and
117 Bromfield (2004) categorize some of the components of marketing information as below.

118 • Marketing research, which refers to the systematic design, collection analysis, and reporting
119 of data and findings relevant to a specific marketing situation facing an organization. It is
120 thus reactive and *ad hoc* by nature.

121 • Market intelligence, the procedures whereby everyday information is obtained. It is more
122 proactive in nature.

123 • Internal reports, which consist of internal information such as sales records and reports and
124 financial data.

125 • Marketing models or information analysis, which are needed as a cognitive framework in
126 which to analyze, interpret and make sense out of data.

127 A term that seems to be used often in organizations as representative of the full
128 spectrum of marketing information is 'market intelligence' (Skyrme, 2009). That term will
129 therefore be used in this thesis interchangeably with 'marketing information'.

130 **Organizational Performance**

131 According to Pitt and Tucker (2008), organizational performance is defined as “a vital
132 sign of the organization, showing how well activities within a process or the outputs of a
133 process achieve a specific goal”. It is also defined as “a process of assessing progress towards
134 achieving pre-determined goals, including information on the efficiency by which resources
135 are transformed into goods and services, the quality of these outputs and outcomes, and the
136 effectiveness of organizational objectives” (Amartunga & Baldry, 2003). Organization’s
137 performance is made visible through the activities it conducts to achieve its mission. Outputs

138 and their effects are the most observable aspects of an organization's performance (Anderson
139 & Carden, 1999).

140 Nancy and Mine (2004), on assessing organizational performance stated that most
141 organizations view their performance in terms of "effectiveness" in achieving their mission,
142 purpose or goals. Most organizations, for example, would tend to link the larger notion of
143 organizational performance to the results of their particular programs to improve the lives of
144 a target group). At the same time, a majority of organizations also see their performance in
145 terms of their "efficiency" in deploying resources. This relates to the optimal use of resources
146 to obtain the results desired.

147 **Empirical Review**

148 Previous studies recognised that e- marketing is an important input into the
149 organizational performance in terms of effective decision-making, increased in sales and
150 productivity, and reduction in marketing costs and order turnaround. For example, Strydom,
151 Jooste and Cant (2000) regard the management of marketing information as a strategic
152 priority of the enterprise. Higgins, McIntyre and Raine (1991) stress the importance of
153 information in marketing by stating that the management of marketing information is crucial
154 to the success of the organization, and that it should be integrated with the strategic planning
155 process. Silvanice (2012) also find out that MKIS is a strong factor that influences
156 satisfaction of Customers and staff of microfinance institution in Nairobi, Kenya. Amir, Rad
157 and Fatemeh (2013) also agree that MKIS improved decision making for marketing managers
158 in different organizations in Iran. In the same vein, Freihat (2012) also affirms that there is a
159 statistically significant relationship between each of the following marketing information
160 system components: (internal records, marketing research, and marketing intelligence) and
161 decision-making. In the study of King (2010), he finds out that MKIS is not only impacts the

marketing activities at organizations but influences the overall organizational activities in United State of America.

Hanif, Yunfei, Xiu-Yin, Hanif and Shareef (2013) explore the innovative marketing information system in tourism industry of Pakistan. The study is very beneficial for hotels, fast food restaurants, tourist resorts, picnic spots and other areas of the sector to measure to what extent innovative MKIS is efficient and effective. The study reveals that MKIS has positive impact on customer satisfaction, sales volume and decision making in Pakistan. Mahmoud (2015) also examines the impact of marketing information systems on organizational performance. The study is based on using the statistical descriptive approach where the data collected through the primary and secondary sources. 130 questionnaires were distributed but 100 questionnaires were available for analysis. Means & standard deviation, One sample T-test, and simple correlation were used to analyse the data. Results show that there is a statistical significant relationship between marketing information systems, sales growth and employers' efficiency in Saudi Arabia.

Methodology

Research Design: Descriptive survey design was used for this study. Purposive method was used to select five manufacturing companies (Bento Pharmaceutical Company, Ibadan; Yale Nigeria Limited; Bond Pharmaceutical Company, Awe – Oyo; Sweetco Nigeria Limited, Ibadan and Black Horse Plastic Company, Ibadan) operating in Oyo State. Simple random sampling technique was used to select fifty (50) respondents for the study.

Data Collection Instruments: The data collection instruments for the study comprised of marketing information system questionnaire, decision-making questionnaire, customer satisfaction questionnaire and sales volume questionnaire which was developed and validated by the researchers. It is a Likert type scale anchored on a seven point likert scale. Its response format ranges from “Strongly Disagree” (1) to “Strongly Agree” (5). The scale was subjected to item analysis in order to ensure it is valid and reliable. It yielded reliability alpha

coefficient of 0.79, 0.87 and 0.76 respectively which is consistent with Nunnally and Bernstein (1994), who suggests that a reliability alpha of 0.70 is appropriate to measure any psychological construct.

Method of Data Analysis: The research data was statistically analyzed by means of the Statistical Package for Social Science (SPSS). Data analysis was performed with the aid of Mean and Regression analysis.

Model Specification and Analytical Technique

To evaluate the impact of e-marketing on organization performance; mathematically, the model is expressed as follows:

Organization Performance = f (e-marketing)(i)

Organization performance is measured by Decision-Making Questionnaire (DMQ), Customer Satisfaction Questionnaire (CSQ) and Sales Volume Questionnaire (SVQ)

Mathematically, therefore, the model is expressed as follows:

Model I: Decision-Making = f(e-marketing) ----- (iii)

Decision Making = $\beta_0 + \beta_1 \text{ e-marketing}_i + \mu_i$

Model II: Customer Satisfaction = f (e-marketing) ----- (iv)

Customer Satisfaction = $\beta_0 + \beta_1 \text{ e-marketing}_i + \mu_i$

Model III: Sales Volume = (e-marketing) ----- (v)

Sale Volume = $\beta_0 + \beta_1 \text{ e-marketing}_i + \mu_i$

β_0 = intercept, β_1 = Regression coefficient and μ_i = error term

217 Results and Discussion

Table 1: Impact of E-marketing on effective Decision Making

Mode l	R	R Square	Adjusted R Square	Std. Error of the Estimate		
1	.594 ^a	.353	.350	.51232		
Model		Sum of Squares	Df	Mean Square	F	Sig.
1	Regression	29.039	1	29.039	110.635	.000 ^b
	Residual	53.283	48	.262		
	Total	82.322	49			
Model		Unstandardized Coefficients		Standardized Coefficients	T	Sig.
		B	Std. Error	Beta		
1	(Constant)	1.694	.258		6.571	.000
	E-marketing	.598	.057	.594	10.518	.000

a. Dependent Variable: Decision Making

218
 219 The result in Table 1 shows that e-marketing has positive and significant impact on effective
 220 decision making. Additionally, E-marketing independently contributes about 35.3% to the
 221 effective decision making. The estimated Durbin - Watson value of 1.822 clears any doubts
 222 as to the existence of positive first order serial correlation in the estimated model. The model
 223 was constructed to test the null hypothesis that E-marketing has no significant impact on
 224 effective decision making in business organizations, Oyo State, Nigeria. E-marketing has
 225 impact on effective decision making. The F-statistic of 110.635 indicates that the overall
 226 regression plane is statistically significant. Therefore, null hypothesis is rejected while
 227 alternative hypothesis is accepted.

228 Implication of this finding is that effective decision making emanates from e-
 229 marketing. This result means that implementation of e-marketing will lead to effective
 230 decision making.

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Table 2: influence of E-marketing on Customer Satisfaction

Mode l	R	R Square	Adjusted R Square	Std. Error of the Estimate		
1	.118 ^a	.014	.009	.57008		
Model		Sum of Squares	Df	Mean Square	F	Sig.
1	Regression	.924	1	.924	2.843	.049 ^b
	Residual	65.974	48	.325		
	Total	66.898	49			
Model		Unstandardized Coefficients		Standardized Coefficients	T	Sig.
		B	Std. Error	Beta		
(Constant)		4.325	.088		48.911	.000
E-marketing		.046	.027	.118	1.686	.049

a. Dependent Variable: Customer Satisfaction

The result in Table 2 shows that E-marketing has positive and significant influence on customer satisfaction. Furthermore, E-marketing independently contributes about 14% to the customer satisfaction. The estimated Durbin - Watson value of 2.010 clears any doubts as to the existence of positive first order serial correlation in the estimated model. The model was constructed to test the null hypothesis that E-marketing has no significant influence on customer satisfaction. E-marketing has significant influence on customer satisfaction. The F-statistic of 2.843 indicates that the overall regression plane is statistically significant. Therefore, null hypothesis is rejected while alternative hypothesis is accepted.

This result implies that e-marketing emerged as a determinant of customer satisfaction. The study is consistent with previous researchers (Mahmoud, 2015; Amir et al., 2013; Hanif et al., (2013; Silvanee, 2012; Freihat, 2012; Tanvil et al., 2008) that that marketing information system does not only impact the marketing activities at the organization level but also influence the overall organizational activities.

250 **Table 3: effect of E-marketing on Sales Volume**

Model	R	R Square	Adjusted R Square	Std. Error of the Estimate		
1	.186 ^a	.035	.030	.61294		
Model	Sum of Squares		Df	Mean Square	F	Sig.
1 Regression	76.267		1	2.728	7.262	.008 ^b
1 Residual	2.728		48	.376		
1 Total	78.995		49			
Model	Unstandardized Coefficients			Standardized Coefficients	T	Sig.
	B		Std. Error	Beta		
1 (Constant)	4.013		.148		27.122	.000
1 E-marketing	.097		.036	.186	2.695	.008

a. Dependent Variable: Job Performance

251
 252 The result in Table 3 shows that E-marketing has positive and significant effect on sales
 253 volume. Additionally, E-marketing independently contributes about 35% to the sales volume.
 254 The estimated Durbin - Watson value of 2.191 clears any doubts as to the existence of
 255 positive first order serial correlation in the estimated model. The model was constructed to
 256 test the null hypothesis that E-marketing has no significant effect on sales volume in business
 257 organizations in Oyo State, Nigeria. E-marketing has significant impact on sales volume. The
 258 F-statistic of 7.262 indicates that the overall regression plane is statistically significant.
 259 Therefore, null hypothesis is rejected while alternative hypothesis is accepted. This result
 260 indicates that innovative marketing information system in business organizations will have
 261 positive impact on sales volume.

262 The implication of this study is that implementation of e-marketing in Nigerian
 263 business organizations will assist our manufacturing companies from distressed syndrome
 264 currently facing them and it will make them wax stronger in a global competitive
 265 environment.

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268 **Mean Response score on daunting challenges preventing business organizations from**
 269 **adopting e-marketing.**

270 Table 4: **Mean Response Scores**

S/N	Statement	Obs	Mean	Remark
1.	The telecommunication facilities are inadequate for successful use of E- marketing by business organizations	50	4.04	Accepted
2.	Nigeria does not have the stable power supply to effectively support E-commerce for marketing by business organizations.	50	4.67	Accepted
3.	The cost of acquiring E-commerce infrastructure is very high	50	4.09	Accepted
4.	Lack of government support affects the full utilisation of E-commerce.	50	4.20	Accepted
5.	Security of documents through e-commerce is a threat to the success of e-commerce utilisation.	50	4.29	Accepted
6	The cost of training personnel to handle E-commerce is very high	50	4.11	Accepted
7.	The low level of education of the owners/managers of business organizations affect the use of e-commerce for marketing	50	4.21	Accepted
8.	There is high level of cyber-crime to make E-marketing successful	50	4.12	Accepted
9.	Nigerian market is yet less informed about online marketing to make e-commerce succeed for the business organizations	50	4.17	Accepted
Grand Mean		4.2		

271 Source; Data Analysis, 2018

272 From the Table 4, the grand mean of 4.2 which is above the criterion mean of 3.
 273 Criterion mean of 3 was generated by adding the total assigned values of the responses and
 274 dividing by the total number of responses ($5+4 + 3 + 2 + 1 = 15/5 = 3$). Thus any mean score
 275 up to 3 and above was interpreted as acceptable by respondents while 2.99 and below is
 276 adjudged rejected by the respondents. This shows that respondents agreed that the above
 277 listed items are the daunting challenges preventing business organizations from adopting e-
 278 marketing in Oyo State, Nigeria. Moreover, a grand mean of 4.2 indicates the level of

acceptance of the items as daunting challenges preventing business organizations from adopting e-marketing. The result is similar to the findings of the Freihat (2012); Hanif, Yunfei, Xiu-Yin, Hanif, and Shareef, (2013); Ezekiel, Eze and Anyadighibe (2015) that lack of infrastructural facilities and lack of support of management are the major obstacles to e-marketing adoption in developing countries. In another study, Hooda and Aggarwal (2012) also argue that dubious attitude of people towards e-marketing of product and services, is one of the major obstacles of e-marketing adoption by business organizations.

Conclusion

The study establishes that e-marketing has significant impact on organizational performance measured by effective decision making, customer satisfaction and sales volume. The study also confirm that unstable power supply, lack of government support, low level of education of the owners/managers of business organizations and Security of documents through e-commerce are major threats to the success of e-marking adoption. In conclusion, e-marketing is a very important means for effective decision making, sales growth and customer satisfaction. Most of the Nigerian business organizations have to develop their marketing information applications in place to support online transactions. This can help in improving the situation in the future.

Recommendations

Based on the conclusion, the study therefore, recommends that government should provide enabling environment for e-commerce to triumph in Nigeria. Also, management of Nigerian business organizations must work to make the e-marketing unit, administratively and financially separate and independent from marketing department, and give it a prominent place in the organizational structure, to be able to perform its functions without associating with the marketing management or other administrations in the company. Additionally, management of Nigerian business organizations must increase their interests in e-marketing

through the provision of all essential supplies, and the introduction of modern methods and techniques in data processing, which increase the speed of rational decision-making.

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