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Impact of Servicescape on Customer Patronage of Fuel Stations in Abia State, Nigeria

Onuoha A. Onuoha PhD, Nnenanya Doris

Department of Marketing, University of Port Harcourt, Port Harcourt, Nigeria

Abstract: This study examined the impact of servicescape on customer patronage of fuel stations in Abia State, Nigeria. Questionnaire was used to generate data from 450 respondents drawn from 30 fuel stations selected from three major cities of the State. Three hypotheses formulated for the study were tested using pearson's product moment correlation coefficient. Results showed that all three dimensions of servicescape used in the study have significant impact on customer patronage. The implication of the study is that fuel stations should, as a matter of policy, treat servicescape as an essential marketing strategy that should be better managed for sustainable customer patronage and profitability.

Keywords: Servicescape, Customer Patronage, Fuel Stations, Abia State, Nigeria.

1. Introduction

Nigeria's downstream oil sector (subsequently referred to as "the downstream") is highly regulated (Ibanga, 2009; Sanusi, 2011; Wogu, 2011; Sokubi, 2011; Ogwo & Onuoha, 2013). The downstream is a set of participants (including their activities) engaged in ensuring the availability of petroleum products from refineries and import points to the end users (Okpara & Anyanwu, 2006).

Government had at various times, including 2012 and 2016, tried to liberalize the activities of the downstream. The goal of government in adopting the principles of liberalization of the downstream is influenced by the successes of other countries in doing same. However, at issue is the stiff resistance which the policy has encountered from the organized labour, thus making it sounds like a "hard sell" (Ogwo & Onuoha, 2013).

As the debate of the deregulation of the downstream persists, government for now is still the highest decision-maker as long as marketing of petroleum products in Nigeria is concerned, including allocation, pricing and distribution of these products. This scenario has virtually made competition, especially based on marketing's 4Ps – product, price, promotion and place – unfashionable for the downstream, as their offers are "commodities" (not products) without clear brand identity and loyalty, sold at uniform prices which none of them can justify a unilateral change in the prices, physically or psychologically (Okpara & Anyanwu, 2006), in promotion.

Nevertheless, the downstream still strive to attract customer patronage, especially as they concentrate their sales outlets, popularly known in Nigeria as "Filling Stations", at major roads of a particular town. They do this by resorting to service-based competition. Thus, the downstream use product-accompanying services as means of attracting customers to their fuel stations. The outward appearance of these services, referred to as servicescape (Anand, 2008), plays essential role in influencing the nature of customer experiences (Bitner, 1992) as well as in forming initial impression on customer expectations (Anand, 2008). Since the downstream offer uniform products, at uniform prices, any perceived evidence of an eventual "quality" of the accompanying intangible service, that is servicescape (Berry & Parasuraman, 1991), would be an added advantage for the downstream concerned, and thus improve customer patronage. This study, therefore, seeks to find out if servicescape has any impact on customer patronage of fuel stations in Nigeria, with particular reference to Abia State.

2. LITERATURE REVIEW

2.1. Servicescape

Servicescape, as defined by Namasivayam and Lin (2008), is the physical environment of a firm, including the overall layout, design and decoration. It is also the built environment, with an artificial

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physical surrounding as opposed to the nature or social environment (Bitner, 1992). Servicescape is more profound in firms that offer core services, like hotels, hospitals, cinemas and schools, yet its importance cannot be over emphasized in firms where customer services are rendered, as effective manipulation of the servicescape can lead to customer satisfaction and increase repeat purchases (Namasivayam & Lin, 2008). Thus, servicescape is important in both firms because of its influences on consumers' behavior (Bitner, 1992; Namasivayan & Lin, 2008). However, firms should be careful about their servicescape, as it is capable of enhancing or suppressing consumers' emotions (Kwabena et al, 2011).

A number of researchers and authors have suggested various dimensions of servicescape. The dimensions of servicescape as suggested by Bitner (1992) are ambient conditions, spatial layout and functionality, and signs, symbols and artifacts. For Namasivayam and Lin (2008), the dimensions include overall layout, design, décor and atmospherics. This study adopts Bitner's three – dimension model of servicescape with an adjustment – removal of signs, symbols and artifacts and addition of staff attitude. This is our point of departure. The adjustment was predicated on our preliminary discovering that all the fuel stations selected for study do not have much signs, symbols and artifacts except arrors indicating Entry (IN) and Exit (OUT). Thus, the dimensions used in this study are ambient conditions, spatial layout and staff attitude.

2.2. Ambient Conditions

Ambient conditions have been identified by numerous authors, including Baker (1987), Chebat et al (2001), Varley (2006), Levy and Weitz (2007) and Broekemier et al (2008), as essential elements that affect human perceptions of and responses to an environment. Ambient conditions are the background features of an environment, and include elements like temperature, lighting, noise, music and scent, which mostly affect the five senses (Kwabena et al, 2011).

Ambient conditions are used by customers as part of auditory components of their evaluations of an environment, whereas management can use them as effective tools to reduce the negative consequences of waiting in any service operation (Hui et al, 1997). In view of the foregoing, ambient conditions have been affirmed as influential factors on customer responses (Milliman, 1982, 1986; Hui et al, 1997; Broekemier et al, 2008).

2.3. Spatial Layout

Fuel stations render some meaningful services while selling the physical products. As such, spatial layout of the physical surroundings should not be left to change, as it is one essential determinant factor of consumer loyalty to a particular firm (Russel & Ward, 2000). Spatial layout is the design and arrangement of services equipments, including the provision of space among them for easy movement (Wakefield & Blodgett, 2005). The comfortability of a customer in a service point depends much on the spatial layout of the physical surrounding (Awasthi & Suvivastava, 2014). The amount of space between two opposite fuel dispensing pumps is an important dimension of spatial layout of a fuel station, as it affects the ease with which vehicles may enter and exit the station. If the space is too narrow, attending to two vehicles will be difficult, thus causing unnecessary delay which customers frown at (Guy & Duckett, 2003).

2.4. Staff Attitude

Attitude is a set of enduring psychological processes with respect to some aspects of our environment (Hawkins et al, 2001). Thus, the way one thinks, feels and acts toward some aspects of one's environment forms the person's attitude (Tiapana, 2009). A given object in the environment upon which one predisposes his attitude may include television or radio programme, person, product, profession, firm or a retail store.

In view of the foregoing, Baker (1987) highlighted three environmental factors – ambient cues, design cues and social cues – that could impact positively on customers' attitude toward a store and increase the chances to purchase more. Nadia and Zekeriya (2013) are of the opinion that social cues are based on customer employee interaction which highly influences customer perception about the store.

The success of the interactions among customers and employees depends on the staff attitude, which Little and Dean (2006) defined as employees' commitment towards the goals and aspirations of an organization, including their willingness to maintain membership of the organization. Thus, positive

staff attitude, expressed verbally and non-verbally during customer-employee interactions, is an important factor in creating lasting impression that affects satisfaction, repeat purchase and profitability (Brown & Lam, 2008).

2.5. Customer Patronage

Customer patronage is a combination of psychological factors that influences purchase behaviour (Burnkrant, 1982); and these factors are considered important by consumers (Moye & Giddings, 202); and used as yardsticks in determining which firm to patronize (Ogbuji et al, 2016).

Customer patronage has been measured by various authors in different dimensions, including store traffic flow (Engle et al, 1996); willingness, word-of-mouth and repurchase (Baker et al, 2002); repeat purchase, customer retention and customer referrals (Awah, 2015); and customer satisfaction and referrals (Ogbuji et al, 2016). These dimensions of customer patronage were used against different marketing phenomena. Nevertheless, the phenomenon in focus in this study is servicescape.

In view of the foregoing, the theoretical framework, as shown in figure 1, was developed; and the following hypotheses derived there from.

H₁: Ambient conditions have significant impact on customer patronage.

H₂: Spatial layout has significant impact on customer patronage.

H₃: Staff attitude has significant impact on customer patronage.

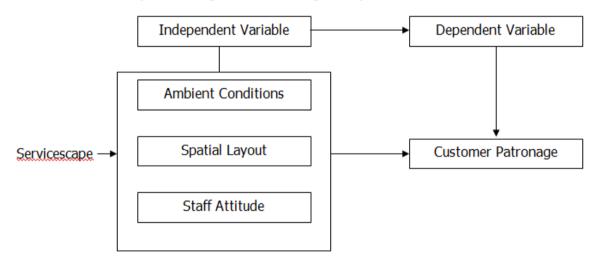


Figure 1. Theoretical Framework of the Present Study

3. RESEARCH METHODOLOGY

This study was carried out in Abia State, Nigeria. The State is divided into three (3) Senatorial Zones – Abia North, Abia Central and Abia South. Data used in the study were mainly sourced using a set of questionnaire distributed to 450 participants drawn from the three zones, on the basis of 150 per zone. The participants were selected from 10 Fuel Stations in each of the three zones (total 30), on the basis of 15 per Fuel Station. However, elements that constituted the sample size were those seen buying or queued to buy one petroleum product or the other. Thus, convenience sampling was used in the study (Ezejelue et al, 2008).

All copies of the questionnaire were completed and returned, as the researchers prevailed on the participants to fill the questionnaire at the spot. The questionnaire contained items that were relevant to the variables being measured. Participants were asked to rate each item using a 5-point Likert Scale of Strongly Disagree (1), Disagree (2), Neutral (3), Agree (4) and Strongly Agree (5). The questionnaire was pilot tested on 30 participants drawn from two fuel stations in Umuahia – the State's capital, and a town in Abia Central Zone. Cronbach's alpha coefficient of ambient conditions, spatial layout, staff attitude and customer patronage, as shown in Table 1, was 0.751, 0.766, 0.772 and 0.763, respectively; thus exceeding the 0.7 recommended by Nunnally (1978). These figures confirmed the reliability of the study's instrument. Pearson's Product Moment Correlation Coefficient (r) was used in testing the hypotheses.

Table 1. Reliability Results

Variables	Mean	Standard Deviation	1	2	3	4
Ambient conditions	3.32	1.801	(0.751)			
Spatial layout	3.71	1,783	0.745**	(0.766)		
Staff attitude	3.26	1.239	0.698**	0.771**	(0.772)	
Customer patronage	3.55	1.499	0.687**	0.815**	0.817**	(0.763)

^{**}Correlation is significant at the 0.01 level (2-tailed) Reliability Cronbach's Alpha (lpha) in parenthesis

4. RESULTS AND DISCUSSION

Tables 2, 3, and 4 show the results of the test of hypotheses 1, 2 and 3 respectively, using Pearson's Product Moment Correlation Coefficient.

Table2. Correlation Result for Ambient Conditions

		Ambient Conditions	Customer Patronage
Ambient Conditions	Pearson correlation	1	.908**
	Sig. (12-tailed)		.000
	N	450	450
Customer Patronage	Pearson correlation	.908**	1
_	Sig. (2-tailed)	.000	
	N	450	450

^{**}Correlation is significant at the 0.01 (2-tailed)

Table 2 shows that ambient conditions have significant impact on customer patronage, with r=0.908 and p<0.01. This result supports H_1 . The implication of the result is that improvement in ambient conditions leads to increase in customer patronage. This finding is in line with the findings of Namasivayam and Lin (2008) and Kwabena et al (2011) that a firm's ambience significantly influences customer patronage.

Table 3 shows that spatial layout has significant impact on customer patronage, with r = 0.938 and p< 0.01, thus supporting H_2 , and indicating that an improved spatial layout would lead to increase in customer patronage. Other studies that support this finding include Ogbuji et al (2016), and Wakefield and Blodgett (2005).

Table3. Correlation Result for Spatial Layout

		Spatial Layout	Customer Patronage
Spatial Layout	Pearson correlation	1	.938**
	Sig. (2-tailed)		.000
	N	450	450
Customer Patronage	Pearson correlation	.938**	1
	Sig. (2-tailed)	.000	
	N	450	450

^{**}Correlation is significant at the 0.01 (2-tailed)

A glance at Table 4 shows that H_3 is supported, with r = 0.941 and p<0.01, implying that staff attitude has significant impact on customer patronage. This result indicates that friendly and empathetic employees are great assets to increase in customer patronage. The finding is in line with the findings of Schneider et al (2003) and Brown and Lam (2008).

Table4. Correlation Result for Staff Attitude

		Staff Attitude	Customer Patronage
Staff Attitude	Pearson correlation	1	.941
	Sig. (2-tailed)		.000
	N	450	450
Customer Patronage	Pearson correlation	.941	1
	Sig. (2-tailed)	.000	
	N	450	450

^{**}Correlation is significant at the 0.01 (2-tailed)

5. CONCLUSION AND IMPLICATION

All three dimensions of servicescape used in this study were found to have positive significant impact on customer patronage. This obviously shows that improved servicescape impact significantly on customer patronage. Thus, issues that concern adequacy of a firm's servicescape should not be left to chance, if improved and sustained customer patronage is desired. Managers of Fuel Stations, and indeed other retail outlets, are advised to treat servicescape as an essential marketing strategy that should, as a matter of policy, be better managed for sustainable customer patronage and profitability.

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