Digital Banking and Customer Satisfaction: The Nigerian Perspective

1.Mordi, Oluchukwu Jones
Doctoral Researcher
Wolverhampton Business School
Faculty of Social Science
University of Wolverhampton
WV1 1AD
United Kingdom
Email: O.J.mordi@wl.ac.uk

2.Oriade, Ade
Senior Lecturer in Tourism
Wolverhampton Business School
Faculty of Social Science
University of Wolverhampton
Nursery Street, Wolverhampton
WV1 1AD
United Kingdom
Email: ade.oriade@wlv.ac.uk

3. Wang, Yong
Professor of Entrepreneurship and Family Business
Department of Finance, Accounting, Systems, and Economics
Wolverhampton Business School
Faculty of Social Science
University of Wolverhampton
Nursery Street, Wolverhampton
WV1 1AD
United kingdom
Email: yong.wang@wlv.ac.uk

4. Atiase, Victor
Senior Lecturer in Accounting and Finance
Department of Accounting and Finance
Faculty of Business and Law
Leicester Castle Business School
De Montfort University,
The Gateway, Leicester CV1 5DL
United Kingdom
Email: victor.atiase@dmu.ac.uk

1. Introduction

The introduction of Internet-Based Technology (I-BT) into the Nigerian banking industry over the past decade has diversified and revolutionised the sector by offering consumers various choices of accessing banking services. Consequently, I-BT has contributed to customer satisfaction by transforming the consumption pattern of bank users through the adoption of mobile banking applications, phone banking, as well as other internet-based banking services (Gomachab & Maseke, 2018). Since customer service is a two-way approach, the use of I-BT in the Nigerian retail banking sector has also contributed to the level of feedback that is received from bank users to improve the whole customer experience. More importantly, the use of I-BT has reduced the level of human interaction in banking operations hence saving time and money for the consumer.

Due to the competitive nature of modern-day banking, customer satisfaction has become crucial than ever through which various banks push the frontiers of banking service delivery to stay ahead of the competition (Rahimi & Kozak, 2017). In the context of Nigeria for instance, customer satisfaction delivery has attracted attention lately due to the fierce competition which has been observed over the past decade in the banking sector. Consequently, various banks in Nigeria have engaged themselves in introducing various I-BT resources in anticipation of improving the delivery of banking services which would, in turn, improve the customer experience of their clients. Besides, most banks in Nigeria have prioritised customer satisfaction to the extent that it has become a major corporate objective which they strive to achieve through their customer service departments (Farayibi, 2016).

In the majority of customer satisfaction literature, satisfaction has been measured based on the suitability of a banking service or product and its ability to meet the needs of the customer (Zameer et al., 2018). Olorunniwo et al. (2006) also indicate that customer satisfaction could be measured using customers' perception of service efficiency, value, and convenience.

Typically, bank customers can be satisfied by the quality and reliability of a product or service which is delivered through the existing delivery channels in the bank (Oliver, 2014). Implicitly, customer service departments have become the channels through which these products and services are delivered and monitored. This enables retail banks to determine the satisfaction levels of their clients through the various feedbacks received (Oliver, 2014).

The competitive nature of retail banking in Nigeria as indicated above has necessitated the need for banks to continuously monitor their product and service delivery channels to ensure customer satisfaction. In a recent customer service survey, Helmrich (2017) indicates that customers have a major role to play in building business reputation and it is therefore very important for banks to demonstrate awareness and address customer concerns appropriately through the use of I-BT. In doing so, there is also a tendency to build prospective customers through reviews from existing customers (Nunan et al., 2018). Several other authors in the field of I-BT also argue that I-BT can focus employees' customer-focused engagement behaviour efforts and capabilities on delivering the quality of service that enhances customer satisfaction in the bank (Setia et al., 2013; Trainor et al., 2014). Thus, I-BT which includes the use of social media, mobile applications, and company review websites can influence the relationship between employees' customer-focused engagement behaviour and customer satisfaction in the Bank (Trainor et al., 2014). The purpose of this chapter, therefore, is to present the study on the mediating role of I-BT in influencing the relationship between customer-focused engagement behaviour and customer satisfaction in the Nigerian retail banking sector.

2. What is Customer Service?

Customer service has become a key indicator of performance in almost all banks and other service sectors. Customer service is defined as a corporate strategy focused on meeting the expectations of customers (Oliver, 1980). According to Ray et al. (2005), customer service

refers to a set of activities involving episodes of contact between customers and employees of an organisation in meeting certain expectations or demands through the use of customer service departments and frontline staffs or the use of various I-BT platforms. The concept is also described as the performance expectations of an organisation in dealing with the demands of customers (Lim & Palvia, 2001). Even though the delivery of customer service can vary across various sectors and industries, it has become very crucial in the banking industry due to the quest of most banks to keep satisfied customers (Oliver, 2014). Moreover, whilst the expectations of customers may differ from customer to customer or even from one sector to the other, certain expectations of customers including effective communication, informativeness, responsiveness, problem-solving ability of the bank, timely delivery of services and consistent quality of service are critical for effective customer service delivery in the banking sector (Wagenheim & Reurink, 1991). Consequently, managing these expectations effectively to enhance customer satisfaction, require initiatives that support performance including participatory management, employee training, and effective use of I-BT (Limbu et al., 2014).

3. Digitisation of Banking Services and Customer Satisfaction

After the global economic recession, consumer confidence was adversely affected in banking services and it became necessary for banks to regain this confidence through the adoption of a variety of mechanisms (Proença & Rodrigues, 2011). This need to regain confidence has necessitated the use of I-BT resources to effectively engage customers in accessing banking services and products (Raheem, 2011; Setia et al., 2013). Consequently, the use of I-BT has increasingly replaced traditional banking where customers would have to visit their branches to access services (Proença & Rodrigues, 2011). Ganguli and Roy (2011) argue that I-BT can offer standardised products which ensure that customers experience less difference in services offered across branches. More importantly, due to the current competitive environment in

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which banks operate, banks need to engage the use of I-BT resources to attract customers through the use of ATMs, internet and phone banking facilities (Proença & Rodrigues, 2011). I-BT, therefore, gives a competitive advantage to banks by reducing human interactions in their delivery. This, therefore, brings efficiency and cost-cutting advantages to banks. However, Ganguli and Roy (2011) argue that banks need to endeavour to reduce the frustrations that are associated with the use of I-BT through constant training and exposure of customers to adopted technologies. A similar study undertaken by Raheem (2011) argues that since the main purpose of banking is to create and deliver banking services, it is important for banks to deliver these services in a customer-satisfying and innovative manner through the effective use of I-BT in the diversification of their products and services to keep up with market realities.

I-BT has, therefore, become an important element in enhancing customer satisfaction within the banking sector. I-BT in the banking sector refers to the deployment and application of technological resources which brings the delivery of banking services closer to consumers (Setia et al., 2013). This includes all services delivered over the internet including all digitised banking services (Hansen and Nissenbaum, 2009). Digitised banking service is any I-BT enabled infrastructure that allows customers to be proactively enlightened about a range of banking products and services (Setia et al., 2013). While Hansen and Nissenbaum (2009) argue that digitised banking suffers from many drawbacks, particularly security issues relating to identity theft, it can, however, empower employees to offer unrivalled customer service, which allows customers to enjoy a higher level of banking experience (Setia et al., 2013). Digitised banking services also include the use of social media, mobile apps, and bank review sites. With the introduction of I-BT into the delivery of banking services, customers can interact directly with service employees, which in turn can help employees gauge or perceive customers' preferences and adapt their service approach to satisfying them (Trainor et al., 2014; Nunan et al., 2018).

Trainor et al. (2014) suggest that, as a service tool, I-BT is likely to enhance the relationship between employees and customers because of its ability to facilitate social interaction between both parties. Accordingly, social media applications such as Facebook, Twitter, and LinkedIn, which were initially created as a peer-to-peer communication tool, have transformed into customer-driven, business tools that enable employees of organisations to partake in interactions between network members. Trainor et al. (2014) note that these I-BTs can provide greater access to customer information either directly through bank-customer interactions or indirectly through customer-customer interactions. More so, the introduction of I-BT in the form of chatbots and live interfaces which allows customers to interact directly with customer service staff has modernized and enhanced customer service and transformed the way consumers experience a service encounter and their relationship with the service provider (Gnewuch et al., 2019).

4. The Emergence of Internet-Based Technology in Nigerian Banking Sector

Traditionally, the Nigerian customer service delivery in the bank is one that mostly involves face-to-face contact with bank employees (Tangaza, 2017). Through this means, banks aspire to build customer service teams to deliver the utmost customer service to bank users (Oladapo, 2016; Tangaza, 2017). However, critics have argued that this has not yet yielded better customer satisfaction outcomes (Oladapo, 2016). Thus, Nigerian banks typically rely on their personnel for building service excellence (Tangaza, 2017). Consequently, it is still noticeable to observe very long queues in banking halls whereby customers are provided with various services and advice in turns (Farayibi, 2016). This meant that customer service delivery in most cases depends on the physical presence of the customer for face-to-face interaction with bank staff (Okoye et al., 2018). This also meant that maintaining a healthy customer relationship was a huge challenge, as daily interactions between employees and customers were inevitable and

the reliability of these relationships was crucial to customer satisfaction as well as the performance of banks (Oladapo, 2016; Okoye et al., 2018). As a means of increasing staff performance and the quality of customer service delivery, banks have embraced staff training as a way to improve their customer service delivery skills (Oladapo, 2016).

Like other economic sectors, the banking industry in Nigeria has undergone significant changes over the years. The Structural Adjustment Program (SAP) implemented in 1986 has transformed not only the framework but also the quality of the banking business (Agboola, 2003). Before the consolidation of banks in 2005, the number of banks had increased dramatically, which made the banking climate fiercely competitive (Agboola, 2003). This made it necessary to adjust the technique of offering banking services and the product range on the market (Ozuem et al., 2016). The more banks that came into the system, the greater the risks to existing banks and the more vigorous the marketing techniques used to survive the competition (Agboola, 2003). Banks in Nigeria were therefore under increased pressure to provide quality services to retain reasonable market shares in the sector (Agboola, 2003). Accordingly, many banks have started to explore various opportunities offered by the advancement in I-BT particularly in terms of advancing their products and services (Agboola, 2003; World Bank, 2018). Many other banks have also adopted various I-BT channels such as electronic banking, telephone banking, mobile banking and interactive televisions in their customer service delivery to improve the relationship between customers and the bank staff (Ozuem et al., 2016; Okoye et al., 2018).

The introduction of I-BT-driven banking services has greatly increased financial inclusion in Nigeria whereby many customers can now access financial services from remote villages as long as they have access to internet coverage (Okoye et al. 2018; Atiase et al. 2019). This implies that access to financial services no longer depends on official working hours or days (Ozuem et al., 2016; Okoye et al., 2018). Payment systems including the use of ATMs, Point-

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of-Sale (POS) machines, and mobile money transfers have been introduced which has significantly improved the payment system across various branch networks (Ozuem et al., 2016; Okoye et al., 2018). Most banks have also established connectivity through various means such as the Local Area Networks (LAN) and the Wide Area Networks (WAN) which were used to facilitate the electronic transfer of funds (Ezema et al., 2018). Automated Teller Machines (ATM), computerised credit ratings, phone banking facilities were fully adopted by banks after the structural adjustment era (Emmanuel, 2011).

Nevertheless, this does not come without various challenges including Nigeria's weak power supply and infrastructure gaps (World Economic Forum, 2017: Atiase eta al.2018). The Skye Bank, for instance, has introduced the "Yes Centre", which is a customer-friendly contact centre that attended to customers' enquiries, complaints, and various requests on a 24/7 basis. Also, the use of various I-BT channels such as social media including Facebook, Twitter, Instagram, and Live chat was encouraged to improve customer service delivery (Skye Bank Nigeria, 2017).

The introduction of I-BT into the Nigerian banking sector is also to encourage the gradual introduction of a cashless system (Garuba & Otomewo, 2015). Before the introduction of I-BT, particularly internet banking, bank customers were frequently seen transferring large sums of money from one location to another either for personal or business purposes. This brought security challenges to businesses and banks alike (Garuba & Otomewo, 2015). Consequently, I-BT integration was a step to curb such a risk to customers; as customers can now use I-BT to make safe payments (Ejiofor & Rasaki, 2012).

It is also believed that incorporating I-BT into the Nigerian banking system has exploited the enormous potential of social media, mobile apps and business review websites (Dwivedi et al., 2015). For example, it has become easier for banks to obtain customer feedback on the service

provided through reviews on these I-BT channels (Ozuem et al., 2016). It has also been easier for banks to sell their products and services to their many followers or subscribers on social media or even through their banking Applications (Dwivedi et al., 2015). Consequently, banks can target potential customers through such means (Ozuem et al., 2016). Perhaps, these features made I-BT even more appealing to banks as far as marketing costs are concerned since these channels were less expensive compared to traditional marketing channels such as newspapers and televisions which brought little results due to their inability to obtain customer data (Kunle et al., 2017).

5. Conceptualising Customer Satisfaction in a Digitised Banking Environment

Customer satisfaction which is the outcome variable is considered as the overall satisfaction level which is experienced by the customer (Oliver, 2014). While acknowledging that customer-focused engagement behaviour contributes positively to customer satisfaction delivery in various respects, it may be difficult to derive any causal relationship between customer-focused engagement behaviour and customer satisfaction without adequate recourse to the role of I-BT factors (Nunan, Sibai, Schivinski, & Christodoulides, 2018).

Firstly, there exists an established body of literature indicating a relationship between customer-focused engagement behaviour factors and customer satisfaction (Lepisto et al., 2018). Considering the delivery of customer satisfaction in the Nigerian banking sector, the key literature highlighted the important role of customer-focused engagement behaviour factors of bank employees in contributing to successful customer service delivery (Zameer et al., 2018). Gierveld and Bakker (2005) in a related study found that employees who show customer-focused engagement behaviour in their work are more productive in their performance than employees who do not exhibit this behaviour. These behaviours include factors such as attentiveness of employees, prompt service delivery, bank customer satisfaction

reputation and effective communication skills which leave a good first impression with bank customers (Bakker, 2015). Taheri, Hosany, and Altinay (2019) refer to engagement as a response to stimuli which emerges as a result of a social consumption activity or involvement with a market offering.

Halbesleben and Wheeler (2008) indicate that customer-focused engagement behaviour also relates to the exhibition of energy and psychological attachment to the work being undertaken by the bank staff. This implies that the bank staff should be able to exert effective energy and psychological effort in performing any task which would have an impact on customer experience. Many other researchers such as Mandal and Bhattacharya (2013) and Rana (2019) have all pointed to the fact that such levels of productivity exhibited through the use of customer-focused engagement behaviour contributes largely to the enhancement of customer satisfaction in the banking sector.

Secondly, there is currently a body of literature which argues for the introduction of I-BT resources into the delivery of customer services in both commercial and retail banking environments. These researchers argue that the deployment of I-BT resources would reduce the face-to-face interaction between customers and bank employees as well as provide a convenient and speedy service delivery which could increase the satisfaction rate of bank customers (Setia et al., 2013). However, in the context of Nigeria, due to infrastructural difficulties which the country currently faces, banks may face various challenges in effectively engaging I-BT resources in driving CS (Collier & Venables, 2012). Thus, deficiencies in national infrastructure such as inadequate telecommunication facilities, low electricity supply, poor and inadequate transport networks and urban structures may hurt the use of I-BT resources in the Nigerian banking sector (Xiaobao et al., 2013).

Agnihotri et al (2012) and Trainor et al. (2014) suggest that social media, one of the elements of I-BT examined in this study, has an impact on customer-focused engagement behaviour and customer satisfaction. Since customer-focused engagement behaviour is available to enhance customer satisfaction, the interactions occurring through I-BT is likely to influence service delivery by employees. This is to say that I-BT is the force through which customer service is delivered (Larivière et al., 2017). Therefore, through I-BT, employees can acquire the requisite knowledge that bolsters their job performance capabilities. This may lead to the development of adaptive behaviours such as planning to determine the appropriateness of service behaviours and activities that will be undertaken (Rapp et al., 2006). The interaction through I-BT may also lead to the modification of service behaviours and activities concerning situational demands (Leischnig & Kasper-Brauer, 2015). In this case, interactions through I-BT might influence the ability of employees to adapt their service offering (Gwinner et al., 2005). Furthermore, employees might interact with I-BT to search, exchange, store, and read information, or to analyse and co-create information perhaps to develop their capabilities (Larivière et al., 2017). This also is vital to the advancement of employees' internal cognitive processes or performance of service functions (Larivière et al., 2017). Finally, customer satisfaction in the banking sector could be influenced by a myriad of factors including the age of the customer (Barnes & Lescault, 2011) gender (Zhu et al., 2013), and experience of the customer (Oliver, 1980). These customer characteristics determine to a large extent the level of satisfaction gained by the customer. The conceptual framework as described above is presented in Figure 1 below.
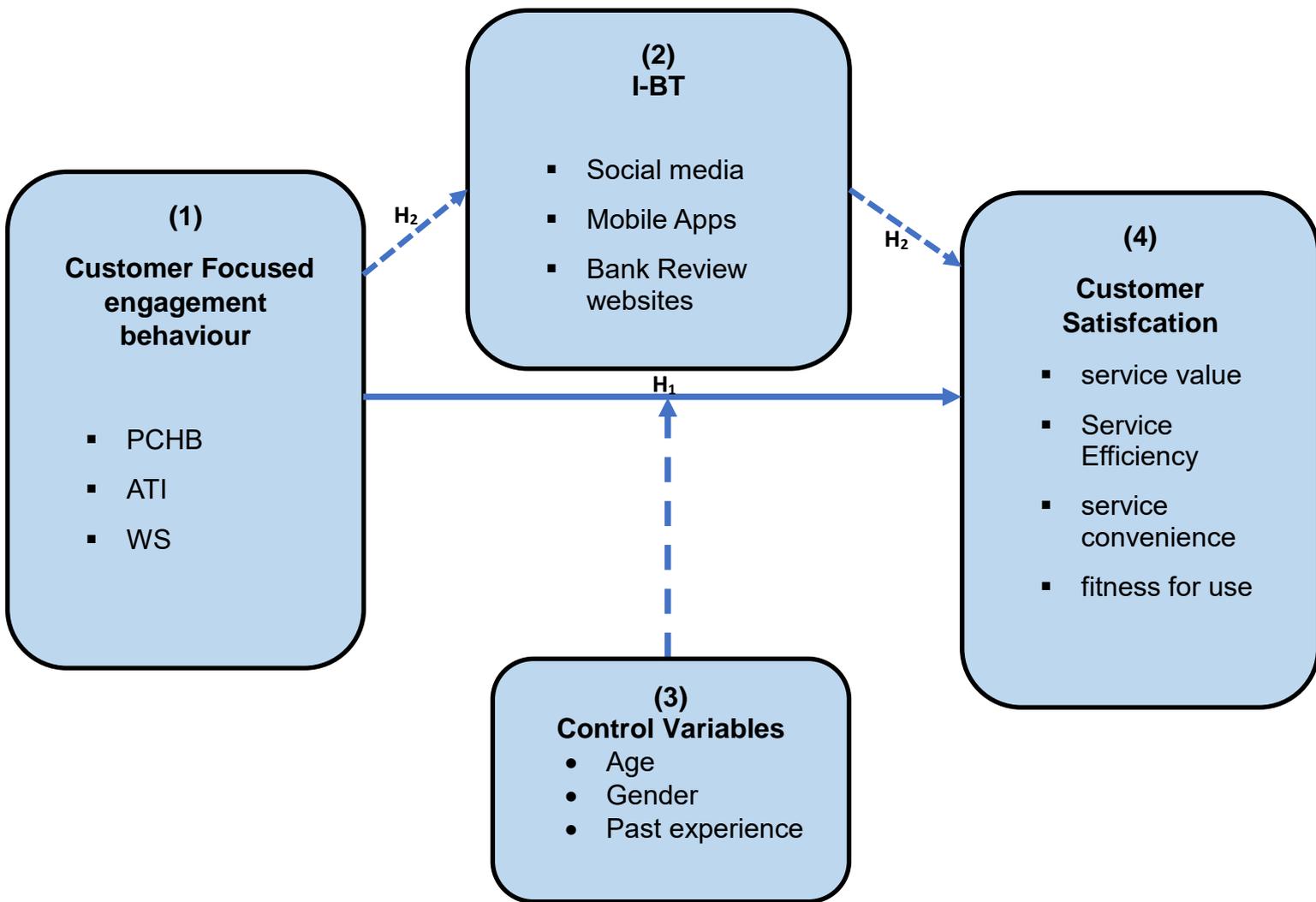
Figure 1: Conceptual model of the impact of customer-focused engagement behaviour and the mediating role of I-BT

6. Methodology

Drawing on three main theories namely the Expectancy Disconfirmation (ED), the Affect and Kahn's engagement Theories, we examine the impact of I-BT on Customer Satisfaction in the Nigerian Banking Sector. Employing a quantitative research methodology, data for our empirical inquiry comes from a survey of 426 bank customers in Edo State Nigeria. The primary aim of this analysis was to explore the mediating role of I-BT in the customer-focused engagement behaviour and customer satisfaction relationship. To accomplish this aim, data was obtained from 426 bank customers using a convenience sampling technique. This technique was chosen for this study because of the nature of the banking operations and the fact that bank customers usually visit and are available at irregular intervals for surveys to be conducted. 606 usable questionnaires were retrieved out of which 426 were involved in some kind of bank I-BT usage and this formed the sample size used for this study. Given that I-BT is the main focus of this study (i.e., the mediation effect of I-BT), hence, the 198 non-IBT users were excluded from this study. The response rate was 78%. Amos software was used to perform a structural Equation Modeling while SPSS was used to execute the Cronbach's Alpha to check the internal consistency of the variables. Both software enabled the discovery of relationships in the data (Dion, 2008).

7. Results

Table 1: Profile of the Sample

Gender	Frequency	Percentage
Male	267	62.7
Female	159	37.3
Total	426	100
Online users	426	100

Educational Level		
Non-Formal Education	101	23.7
Primary	19	4.5
Secondary	120	28.2
Tertiary	186	43.7
Total	426	100
Age Distribution		
18–35	127	29.8
36–45	119	27.9
45–55	82	19.2
56–65	65	15.3
66+	33	7.7
Total	426	100

Table 2: Normality Distribution

Variables	Mean	Standard Deviation	Skewness	Kurtosis
PCHB1A	4.237	.9293	-1.637	3.009
PCHB2A	4.0962	.92933	-1.324	1.955
PCHB3A	4.0915	.91707	-1.120	1.381
PCHB4A	3.8944	.98965	-.943	.685
PCHB5A	3.8803	1.05707	-.864	.131
ATI1A	3.7465	1.04106	-.810	.222
ATI2A	3.8239	.97715	-.781	.293
ATI3A	3.8028	1.01684	-.744	.264
ATI4A	3.8380	.99389	-.639	.003
ATI5A	3.7394	.97989	-.996	1.016
ATI6A	3.7700	1.06876	-.728	-.046
WS1A	4.0915	.95478	-1.097	1.089
WS2A	3.9437	.91863	-.913	.912
WS3A	3.8286	1.02267	-.872	.408
WS4A	3.7770	1.00565	-.573	-.208
WS5A	3.9061	.95824	-.714	.334
WS6A	3.8005	1.05389	-.891	.530
I-BT1A	4.1667	.87470	-1.369	3.146
I-BT 2A	4.1174	.69643	-.904	2.295
I-BT 3A	3.7300	1.07589	-.771	.625
I-BT 4A	3.6878	1.03068	-.580	.571
I-BT 5A	3.5915	1.05041	-.695	.488
I-BT6A	3.8427	.89504	-.695	.770
CS1A	4.0775	.80651	-.926	1.495

CS2A	3.9413	.82538	-.723	1.013
CS3A	3.8052	.96872	-.772	. 448
CS4A	3.8099	.97208	-.847	.590
CS5A	3.8803	1.07910	-.279	4.883

Table 3: Regression weights of the CFA measurement

Variables			Estimate	S.E.	C.R.	*P*
PCHB	<---	CFEBEH	1.274	.176	7.241	***
ATI	<---	CFEBEH	1.318	.190	6.928	***
WS	<---	CFEBEH	1.000			
PCHB5A	<---	PCHB	1.000			
PCHB4A	<---	PCHB	.874	.080	10.996	***
PCHB3A	<---	PCHB	.628	.070	9.010	***
PCHB2A	<---	PCHB	.716	.072	9.955	***
ATI6A	<---	ATI	1.000			
ATI5A	<---	ATI	1.032	.105	9.872	***
ATI4A	<---	ATI	1.011	.105	9.663	***
ATI3A	<---	ATI	1.021	.107	9.541	***
ATI2A	<---	ATI	.773	.097	7.969	***
WS6A	<---	WS	1.000			
WS5A	<---	WS	1.038	.099	10.495	***
WS4A	<---	WS	1.158	.107	10.876	***
WS3A	<---	WS	1.039	.103	10.061	***
WS2A	<---	WS	.866	.091	9.551	***
I-BT5A	<---	I-BT	1.000			
I-BT4A	<---	I-BT	1.320	.254	5.204	***
I-BT3A	<---	I-BT	1.075	.219	4.900	***
CS5A	<---	CS	1.000			
CS4A	<---	CS	1.121	.093	12.055	***
CS3A	<---	CS	1.119	.090	12.490	***
CS2A	<---	CS	.869	.077	11.253	***
CS1A	<---	CS	.818	.075	10.964	***

Table 4: Variable Correlations

	C.R	AVE	MSV	MaxR(H)	CS	I-BT	CFEBEH

CS	0.841	0.516	0.285	0.849	**0.718**		
I-BT	0.762	0.520	0.130	0.906	0.360	**0.721**	
CFEBEH	0.813	0.595	0.285	0.941	0.534	0.193	**0.772**

8. Discussion

I-BT resources in the retail banking sector in Nigeria is found to have contributed immensely to the customer satisfaction of bank customers. The findings show that C-FBEH *factors* are positively related to I-BT and explain 0.39 of the variance in I-BT while I-BT contributes 0.17 to the value of customer satisfaction. Therefore, in consideration of the role of I-BT in this relationship, it is implied that I-BT has a mediating relationship involving C-FBEH rather than a direct relationship. Thus, it is impractical to conclude that there is a direct relationship between C-FBEH and I-BT since this study has investigated I-BT availability but not I-BT effectiveness. However, one cannot also say that higher C-FEBEH would lead to higher I-BT availability, given that the availability of I-BT resources in the bank is dependent on the management of the bank. Therefore, one cannot assume that from the C-FEBEH to I-BT path, when employees are engaged, it would lead to a sudden improvement in I-BT availability. Specifically, the result does not suggest that improving C-FEBEH will or can influence I-BT since I-BT is independent. Thus, the insight or knowledge gained from the results is that there is a positive relationship between C-FEBEH and I-BT, which means that if I-BT is available, employees are likely to use it and it is likely that customer satisfaction can be enhanced as a result. Thus, I-BT mediates the relationship.

In terms of the mediation, the results show that a partial mediation exists in the tested model. The partial mediation is 0.067. Conversely, the main relationship path (CFEBEH to CS) is .40. Therefore, the dominant impact is that C-FEBEH will lead to higher levels of customer satisfaction by a .40 margin, but if I-BT is available, it can provide an extra 0.067 level of satisfaction. This means that C-FEBEH will improve customer satisfaction by a margin of

0.067 through the I-BT path. More so, the availability of I-BT resources can enable an extra level of customer satisfaction to be derived from bank service delivery.

This study has a lot of implications for banks in the area of customer satisfaction since the availability of I-BT in the bank could provide extra impetus to improvement in satisfaction levels. Several other studies including Kärnä et al. (2004) found that the information technology which has been used to automate call centres and traditional bank branches have improved the quality of customer service delivery through the use of different service delivery channels. Rodriguez and Ajjan (2014) also found that the emergence of technology, such as customer relationship management (CRM) systems and social media, has prompted a need to better understand how to handle customer interactions in today's internet era.

Although 0.067 may seem marginal, it can become an important scaling factor for various sizes of banks in enhancing customer satisfaction. For instance, in a highly disillusioned or disengaged sector, a 0.067 improvement in CFEBEH could mean a great deal. In the same vein, a 0.067 improvement in profit as a result of improving customer satisfaction could mean a lot even for an organisation making a persistent loss.

Furthermore, organisations that embrace the C-FEBEH strategy need to have I-BT available to have additional customer satisfaction level to their customer service experience. Banks will need to develop operational strategies that would build and maintain a productive relationship between C-FEBEH and customer satisfaction before making I-BT available. This will allow the effect of I-BT to be more visible as suggested by Rodriguez and Ajjan (2014). Consequently, the findings provide justification for investing in I-BT as it leads to enhanced customer satisfaction. Banks need to make I-BT available and ensure it is well-aligned with their approach to the management of C-FEBEH and customer satisfaction relationships.

9. Conclusion

It is important to point out that customer expectations in the banking sector are only defined by the customer and banks should endeavour to meet those needs in anticipation to have a long-term impact on customer service experience (Fogli, 2006). Since customer expectations are never consistent but evolve from time to time, customer service delivery often evolves in a continuum as expectations of customers evolve (Haley, 2005). Moreover, customer expectations often change more rapidly than organizations can quickly respond (Haley, 2005). Therefore, it is suggested that to keep pace with the evolution of customer needs and expectations, banks would require a system that is dependent on I-BT resources in monitoring the changing nature of customer needs and demands.

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