EFFECT OF INFORMATION TECHNOLOGY ON PERFORMANCE OF DEPOSIT MONEY BANKS

Effect of Information Technology on Performance of Deposit Money Banks in Nigeria

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Abstract

Research purpose: The paper empirically studied the effect of information technology (IT) on performance of DMBs in Nigeria. Specifically, it ascertained the effect of electronic payment platforms such as automated teller machine transaction, point of sales payment system, web payment and mobile payment system on profit for the year of deposit money banks in Nigeria.

Methodology: It adopted an *ex-post-facto* research design, covering a period of 14 years (2009 – 2022). Data collated from World Bank Database, CBN Statistical Bulletin and audited annual reports of the sampled banks were diagnosed and analyzed using relevant statistical tools including panel least squares, stationarity and cointegration tests.

Findings: Findings indicated that although the cumulative impact of the regressors on the dependent variable is significant (t-statistic = Wald chi² =14.46; p-value = p > |z| =0.0249 < 0.05), individual effect (is nonsignificant except for automatic teller machine (p-value = 0.002, t-statistic = -3.06), natural logarithm of total assets (p-value = 0.027, t-statistic = 2.20) and natural logarithm of total e-payment (p-value = 0.017, t-statistic = -2.38) that exerted very strong effects on the same regressand. In other words, the influence of the control variables is statistically relevant.

Conclusion and Recommendation: It means that use of information technology in DMBs should be encouraged.

Keywords: Information Technology, E-Payment Systems, Profitability, DMBs

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1.0 INTRODUCTION

For a long time now, the Nigerian banking sector has advanced in the use of technology for service delivery. Adoption of information technology enrolls the banking sector into the global and digital world, and by extension, affects their operations in various aspects such as effectiveness, efficiency, competitiveness, customer base and globalization of the bank (Chukwukaelo, Onyeiwu and Amah, 2018). Incorporation of information technology in banking operations entail the use of electronic banking channels such as payment cards (debit or credit), mobile phones, online web portals, point of sales (POS) terminals, automated teller machines (ATM), point of sale (POS), mobile money transfer (MMT) and online money payment (WEB), amongst others (Mustapha, 2018). This was not only hoped to improve the banks performance, but to make banking operations easier by reducing the long queues in banks, delay in attending to customers, inability to properly sort out transactions and customer's general loss of trust in banks, thereby preparing Nigerian banks to compete favorably with other banks world over. Also, the use of information technology in the banking system makes it easy for bank managers to monitor bank activities including transactions with less stress.

Consequently, the reason for adoption of information technology in the banking system also extends to ensuring easy and cheaper communication during transaction, fostering customer-bank relationship, enhance customer satisfaction, improve operational efficiency, reduce the running cost, reduce transaction time, provide security to investors fund and promote other financial services in the bank aimed at increasing the banks' profitability (Morufu, 2016). Further, the banking industry believes that by adopting the new technology – e-banking, the banks would be able to improve customer service level and tie their customers closer to the bank (Obiekwe and Anyanwaokoro, 2017). This study is, however, focused on ascertaining the effect of information technology on DMBs performance in Nigeria.

The fact that internet banking is fast gaining acceptance in the Nigerian banking sector does not assuredly signify improved banks performance nor would conspicuous use of the internet as a delivery channel make it economically viable, productive or profitable. Recently, it was observed that adoption of the e-banking system has brought about positive as well as negative transformation into the banking sector. In



spite of the countless benefits of ICT on various sectors and sub-sectors of the Nigerian economy, consensus is still yet to be reached on whether adoption of ICT, particularly in the banking sub-sector, has translated into increased financial appreciation in the sub-sector. Researchers and bank managers/operators are worried as to whether cost and other challenges of adopting information technology can be justified by performance. As a result, some authors discovered positive effect of adoption of information technology on bank performance, while other authors provided that the influence of information technology on bank performance is negative.

Though efforts exit to ensure that customers reap benefits of e-banking, they still lament on areas like malfunctioning automated teller machines (ATMs), internet network failure, online theft and fraud, non-availability of financial service, payment of hidden cost of electronic banking like short message services (SMS), mandatory acquisition of ATM cards and non-acceptability of Nigerian cards for international transaction amongst others. Moreover, while some people advocate the benefits attached to e-banking systems, others lament that e-banking poses more dangers to their banking operations. For instance, an automated teller machine (ATM) rather than reducing the rate of carrying cash, increases the same, because with an ATM card, they have access to cash anywhere. Moreover, many believe it indulges them into engaging in extravagant spending.

Despite the adoption of e-banking, it is observed that banks are still finding it difficult to meet the expectations of their customers as regards service delivery. There are still the issues of long queues in banks, delay in attending to customers, inability to properly sort out transactions and customer's general loss of trust in banks. With all these challenges, the question has remained, how and to what extent has information technology influenced banks performance in Nigeria? It provides answers to this question by empirically investigating the effect of information technology (IT) on performance of banks in Nigeria.

2.0 REVIEW OF RELATED LITERATURE

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Information Technology in Electronic Banking: The newest information technology in the banking sector is electronic banking (e-banking). Electronic banking, otherwise called e-banking for short, is the use of electronic means to deliver banking services (Okoro, 2014), mainly through the internet. It is the best innovation that has happened in the banking industry in the 21st Century. This innovation has made banking possible even outside banking premises. With e-banking method, different banking transactions such as purchase of airtime, account opening, transfer and receipts of funds, balance enquiry and payment of bills can be completed or initiated anywhere by the use of various electronic devices like mobile phones, automated teller machines, point-of-sale systems, smart televisions, computers, tablets, among others (Ene, Abba and Fatokun, 2019). This present study utilized Automated Teller Machine (ATM) payment method, Point-of-Sale (POS) payment method, Web Based Transactions (WBT) and Mobile Banking (MoB) electronic banking methods.

Automated Teller Machine (ATM): Automated Teller Machine (ATM) is a machine where cash withdrawal can be made over the machine without going into the banking hall. According to Orji, Ogbuabor, Okon and Anthony-Orji (2018), Automated Teller Machine (ATM) are computer-enhanced telecommunication machines that permit bank customers to have accessibility to cash and perform financial transactions, usually situated in public places and in the enclosure of banks. Particularly the most prominent form of e-payment system in Nigeria is the Automated Teller Machine (ATM) card. An increase in the number of ATMs leads to an increase in the volume and value of transactions. The increase in the volume and value of ATM transactions enhances the payment system in turn, which leads to banking sector performance. Some of the services offered by an ATM include withdrawal of funds, account balance inquiry, transfer of funds, and top-up on airtime for mobile phones etc.

Point-of-Sale (POS): It is a form of e-payment that handles balance inquiry, payment for goods and services, and electronic fund transfer at a specific point of sale. It allows customers to make payment for goods and services to clients known as merchants, in the premises of the merchants (Okechi and Kepeghom, 2013). It is sometimes referred to as point of purchase (POP) or checkout as the location where a transaction occurs. A 'checkout' refers to a POS terminal or more generally to the hardware and software used for checkouts, the equivalent of an electronic cash register. According to

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InterSwitch Ltd (2011), the POS terminal is a machine that has a display screen, a barcode scanner, and a card reader. It is a portable device that allows customers with cards (such as ATM cards) to carry out banking transactions outside the bank's environment.

Web Payment System: According to Mamudu and Gayovwi (2019), the Web (E-transfers) refers to electronic transfers which can be affected via the internet on Personal Computers (PCs), laptops and other devices. The web payment system provides the individual with the opportunity of paying bills and performing transactions of any kind through personal electronic devices. In the work of Worku, Tilahun and Tafa (2016), the web banking allows customers of a financial institution to conduct financial transactions on a secure website operated by the institution, which can be a retail or virtual bank, credit union or society. It may include any transactions related to online usage. Banks increasingly operate websites through which customers are able not only to inquire about account balances, interest and exchange rates but also to conduct a range of transactions.

Mobile Banking (MoB): Mobile banking (also known as M-banking) is a term used for performing balance checks, account transactions, payments, credit applications and other banking transactions through a mobile device such as a mobile phone or personal digital assistant (PDA). Mobile banking (MB) is the process whereby formal banking transactions are carried out through the use of telephone and mobile phones. Mobile banking allows its customers to conduct some financial transactions remotely using a mobile device such as a mobile phone or tablet. The scope of offered services may include facilities to conduct bank and stock market transactions, to administer accounts and to access customized information (Tiwari and Buse, 2007). Mobile banking does not handle transactions involving cash, and a customer needs to visit an ATM or bank branch for cash withdrawals or deposits. Many apps now have a remote deposit option; using the device's camera to digitally transmit cheques to their financial institution.

Performance Indicator-Profit for the Year: Performance is one of the key determinant factors that are widely used in measuring the success or failure of any organization (Adebawojo, Enyi and Adebawo, 2015). Generally, performance of an organization can be categorized into: human resource which is measured in terms of turnover;

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organizational category which is measured in terms of productivity, quality, customers' satisfaction and so on. The 'profit for the year', formerly referred to as 'profit after tax' is a fundamental figure that a financial analyst or value investor would consider before making an investment decision. It is the final, residual amount of profit generated by an organization. The year profit is a better indicator of the bank's annual profit, hence, adopted in this study.

2.2 Theoretical Framework

Technological Acceptance Model: The Technology Acceptance Model (TAM) was propounded by Fred Davis in 1989. The model explains how individuals accept new technology. Particularly, it argued that consumers' attitude towards using modern technology is influenced by perceived usefulness and perceived ease of use. As a result, the model is hinged on two key beliefs, perceived usefulness (U) which has to do with the extent a person believes that using a particular technology will enhance her/his job performance and perceived ease of use (EOU) which expresses the degree to which a person believes that using a technology will be free from effort. Also, the Technology Acceptance Model (TAM) proposes that external factors affect intention and actual use. Although the TAM did not consider the costs of acquiring a modern technology; that an organization may be willing to adopt a modern technology but may not have adequate resources (financial or human) to do so, it is relevant to this study as it centers on adoption and deployment of e-banking facilities in Nigeria.

Bank Focused Theory: It was propounded by Kapoor in 2010. It grows on the ground that banks use non-traditional but conventional low-cost delivery channels to provide services to its numerous customers. Such channels include the automated teller machines (ATMs), internet banking and point of sale (POS) among others. By making use of these channels, the bank offers a wide range of services to its customers not minding the location and branch where the customer is. The only thing required is to input the needed information into the system and the transaction is concluded. This theory supports this study since the emphasis here is on electronic platforms as a means of delivering services.

This study is however underpinned to the *Bank Focused Theory* which uncovers that banks use conventional low-cost delivery channels to provide services to its numerous customers.

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2.3 Empirical Review

Using Panel Least Squares (PLS) estimation technique, Obiekwe and Anyanwaokoro (2017) investigated the effect of Electronic Payment Methods (EPM) on the profitability of commercial banks in Nigeria. Data was collected from the Central Bank of Nigeria (CBN) Statistical Bulletin and annual reports and statements of accounts of the five banks for the period of 2009 to 2015. The finding revealed that automated teller machines (ATM) and mobile phone payment have a significant effect on the profitability of commercial banks in Nigeria. However, point of sale (POS) has an insignificant effect on commercial banks' profitability in Nigeria. Mujuri, Kibet and Kiprop (2018) employed the autoregressive distributed lag (ARDL) technique based on the Bounds testing approach to investigate the impact of financial innovation on demand for money function in Kenya, utilizing data from 2008 to 2016. Finding showed that financial innovation impacted positively on demand for money function in Kenya. Specifically, the volume of ATMs exerted a positive and significant effect on demand for money in Kenya.

Orji, Ogbuabor, Okon and Anthony-Orji (2018) employed SURE model to investigate the impact of electronic banking innovation and selected banks performance in Nigeria using data sourced from Central Bank of Nigeria publications, National Bureau of Statistics publications and the sampled commercial banks' annual report and statement of accounts between 2007 and 2016. The result revealed that automated teller machine transactions, point of sale transactions, and mobile banking transactions are major e-banking innovations that contribute to old and new banks' performance in Nigeria. Ugbede, Yahaya and Edicha (2019) examined the effects of electronic payment on financial performance of deposit money banks in Nigeria. The study used secondary sourced data obtained from the annual reports and statistical bulletin of the Central Bank of Nigeria. Multiple regression analysis techniques were employed in the data analysis. Result provided that ATM does not contribute significantly to profitability of the sampled banks, while POS and internet banking contribute positively and significantly to bank profitability, and is also statistically significant to banks profitability in Nigeria.

Eze and Egoro (2016) carried out an empirical investigation on the impact of electronic banking on the profitability of commercial banks in Nigeria. The study regressed four

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e-banking channels (automated teller machines, electronic mobile banking, internet banking transactions, and point of sales services) on profit before tax of commercial banks operating in Nigeria between 2006 and 2014. Analytical technique used was the error correction model (ECM) mechanism. Results uncovered that the overall impact of electronic banking on bank profitability was statistically significant. However, the individual estimate shows that automated teller machines and electronic mobile banking impact positively and insignificantly on profit before tax, internet banking transactions impact negatively and insignificantly on profit before tax while the impact of point of sales services on profit before tax is positive and statistically significant. Ganjikhah, Rabiee, Moghaddam and Vahdat (2016) carried out a comparative analysis of bank's ATM and POS technologies by customers. Using descriptive statistics, the study revealed that people use points of sale rather than ATMs. In most components, ATMs showed higher acceptance than points of sale. Only in self-efficacy, perceived joy and result demonstrability, points of sale were higher than ATMs. In anxiety and behavioral intention components, there was a meaningful difference between points of sale and ATMs regarding acceptance.

An empirical investigation carried out by Chukwukaelo, Onyeiwu and Amah (2018) regressed performance of Deposit Money Banks (proxy by return on equity) on electronic banking (e-banking) channels: automatic teller machines, point of sales, internet banking transactions and electronic mobile banking for the period of 2006-2016. Outcome of the panel generalized method of moment (GMM) regression technique exposed that ATM, POS, WBT and internet banking (INTBANK) have positive and significant influence on the profitability (proxy by ROE) of deposit money banks in Nigeria; thus, the need for optimal deployment of these services to customers. Covering the period from 2009 to 2018, Nwakoby, Okoye, Ezejiofor, Anukwu and Ihediwa (2020) empirically studied the link between electronic banking and profitability of deposit money banks in Nigeria. Analytical technique employed was ordinary least squares multiple regression while the findings revealed that ATM and POS payment methods have negative and insignificant effect on return on equity of deposit money banks in Nigeria, while mobile banking payment (MPAY) has positive and significant effect on return on equity of deposit money banks in Nigeria.

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By adopting both inferential and descriptive design using a t-test, Dabwor, Ezie and Anyatonwu (2017) investigated the effect of ICT adoption on the competitive performance of banks in an emerging economy in Nigeria. Results revealed a positive relationship exists between ICT and banks performance in Nigeria. This implies that a marginal change in the level of the investment and adoption of ICT such as (Automated teller machine, Web based transactions, and mobile payments) in the banking industry resulted in a proportionate increase in the profit level. Nwakoby, Sidi, and Ofobruku (2018) employed a log-linear regression model to empirically investigate the impact of Information and Communication Technology (ICT) on the performance of deposit money banks in Nigeria. Proxies used for ICT were ATM, POS, mobile money (MM), web payment (WP), and interbank transfer (IBT) usages while bank performance was represented by ROE. Sample period covered was 2006-2015. However, findings uncovered that ATM, MM and WP impact negatively and insignificantly on ROE of deposit money banks while the impact of POS and IBT on ROE of deposit money banks in Nigeria was positive and statistically significant.

Saleem, Akhter, Baber, Bashir and Haider (2019) examined the impact of cashless banking on profitability in the banking industry of Pakistan from 2013- 2018. Using ratio analysis, cashless banking (point of sales transactions, mobile banking transactions and internet banking transactions) has a very significant impact on the profitability of the selected banks in the banking industry of Pakistan. Using ordinary least squares (OLS) regression as the estimation method within the cointegration, granger causality, and error correction modeling, Jonah, Egbe and Richard (2020) examined the impact of financial innovation on money demand in Nigeria. The study covered a period of 11 years (2009-2019). Finding showed that financial innovation has a mixed impact on money demand in Nigeria during the period of analysis. For instance, financial innovation has a positive impact on money demand through the value of ATM transactions in the current period, two lagged periods of mobile banking transactions, etc.

Using descriptive statistics, Bezhovski (2016) examined the future of mobile payment as electronic payment services. The study concluded that for a promising future of this industry, mobile payment systems have to be better integrated with present telecommunication and financial infrastructures. Leila, Rezaei and Razmi (2019)

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investigated the effect of electronic payment systems on the performance of the financial sector in selected Islamic countries. Using panel analysis, results showed that all electronic payment indicators including mobile bank, internet bank, bank card, POS machine and ATM positively and significantly affect the financial sector performance. Also, economic growth and population have a significant positive effect on financial sector performance, while inflation and interest rate negatively and significantly affect it.

Simatele and Mbedzi (2021) employed descriptive and logit analysis to investigate consumer payment choices, costs, and risks in Zimbabwe. Finding revealed a strong preference for cash, coupled with cash shortages and inadequate infrastructure for electronic payments, has resulted in a multitiered pricing system, with significant premiums for digital payments. This perverse effect counters the heavily lauded benefits of mobile payments in developing countries. Khamees (2023) examined the effectiveness of information technology governance on improving financial performance of banks (2015-2019) in Jordan using a survey sample of 23 banks and structured questionnaires. Data analysis revealed no significant relationship exists among organizational competition, information technology governance and bank performance. Saeed and Ahmed (2023) critically explored the influence of information technology on financial performance of commercial banks via faithful representation of the accounting information system. Applying the autoregressive distributed lag (ARDL) model, results indicated a joint significant effect of both faithful representation and information technology on profitability of these banks.

3.0 METHODOLOGY

The study employed an ex-post facto research design. It was carried out in Nigeria using a 14 year (2009-2022) panel data set extracted from audited annual reports of the sampled banks, Central Bank of Nigeria Statistical Bulletin and World Bank Database. The population of the study is twenty-nine (29) deposit money banks quoted on the Nigerian Exchange Group as at December 31, 2023. The sample for study is eleven (11) out of thirteen (13) deposit money banks, a subsector in the financial services sector of the Nigerian exchange group which were purposely selected to avoid missing values in the dataset. The panel least squares regression, specifically,

Prais-Winsten regression, correlated panels corrected standard errors (PCSEs) is adopted after carrying out necessary diagnostic tests.

$$Y = \beta_0 + \beta_i X_i + \mu_t$$
 - - - - - - - - (3.1)

where,

Y = Dependent Variable,

 β_0 = Intercept of the regression equation,

 β_i = Coefficient of X in the regression equation,

 X_i = Independent variables,

 μ_t = Disturbance and error term.

Hence, PFTYTTA = $f(ATMTEPAY, POSTEPAY, WEBTEPAY, MOBTEPAY, \mu_t)$ - - (3.2)

PFTYTTA is profit for the year deflated by total assets, ATMTEPAY = ATM deflated by total e-payment, POSTEPAY = POS deflated by total e-payment and so on.

Control variables = LnTA (natural logarithm of total assets) and LnEPAY (natural logarithm of electronic payments.

4.0 RESULTS

Table 1: Descriptive Statistics and Normality Tests

Var.	Obs.	Mean	Std.	Std.	Pr	Pr	Join	nt Sho	ipiro W	Shapiro F	Min
Max				Dev.	Err.	(Skew)	(Kurt) Pr>Ch	i² Pr>Z	Z Pr>Z	
pftytta	154	4.0150	.0284	.002	23 .00	000	.0010	.0000	.000	00.00	00
0953	.242	24									
atmtep	ay 15.	4.0446	.0265	.00	21 .37	72 .0	0000	.0000	.0000	.0000	
.0057	.078	3									
postepa	y 15.	4.0082	.0073	.00	06 .0	000	.2353	.0001	.000	00. 0	00
.0004	.026	55									
webtep	ay 15.	4	.0610	.1493	.012	20.00	. 000	.0000 .	0000	.0000	.0000
.0003	.505	4									
mobtep	ay 15	.01	27 .01	82 .0	015 .	0000	.000	000.00	0 .00	00. 000	00
.0000	.071	7									

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lnta 154 14.155 1.337 .1078 .0000 .0035 .0000 .0000 .0000 9.750 16.522 lnepay 154 11.643 1.546 .1245 .0007 .0000 .0000 .0000 .0000 9.910 14.329

Source: Authors' STATA 14.2 Outputs

Table I above depicted the mean as a measure of the true population where extreme values are absent. Values of standard errors are very small in comparison to their respective means, given that means, standard deviations and standard errors exist in the same metrics. Specifically, the standard errors are quite small and aligned to the theory that it becomes smaller as a normal sample approximates to the true population. However, the standard deviations of the most variables are nearly equal to or even larger than their respective means, excluding the control variables. Further, the probabilities of skewness, kurtosis, joint (both moments), Shapiro-Wilk W and Shapiro-Francia W for the all entered variables are below 0.1% excluding probability of skewness for atmtepay at 0.3772 and probability of kurtosis for postepay at 0.2353. The range (.3377, .0726, .0261, .5051, .0717, 6.772, and 4.419) is undulating for the relevant period. In other words, these values are normally distributed.

The Pearson correlation coefficients measure the degree of association between the different variables (see Appendix III). Probability of each correlation coefficient is beneath each. Further, the P-values that are less than 5% show strong statistical significance. Results portray negative nonsignificant influences of all predictors excluding Inta on pftytta (roa). Further, there exist perfect relationships among explanatory variables signaling collinearity issues. Fortunately, there are no lagged values and collinearity diagnostics can apply. The Breusch-Pagan test result for heteroskedasticity for the model specification demonstrated that the variance of the error term in the model is non – constant. In other words, i.e. p-value = 0.0000 is less than 5% and signified the acceptance H_A : non-constant variance: heteroskedasticity. If this is not corrected, it leads to biased standard errors. It is adjusted through adopting the robust command while executing the regression to arrive at robust standard errors. The variance inflation factor measures the degree of (strong) linear relationship between one predictor variable and one or more explanatory variables. Montgomery and Peck (2007) hinted that when 5 < VIF < 10, the regression coefficients

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are weakly estimated. The explanatory variables have resultant variance inflation factors ranging between 1.16 and 3.78 (mobtepay is removed) and a mean VIF of 2.71 < 5.0. Ramsey Reset test is used to detect if the all-inclusive model is either under-specified or over-fitted. It is done by removing one or more explanatory variables and re-running the regression. Inspecting the old and new residuals has shown that the model is not over-fitted. In other words, the P-value = 0.0753 > 0.05 connotes rejection of the alternative hypothesis (H_A) and accepting Ho i.e. the model has no omitted variables.

Table 2: Panel Data Stationarity Tests

Levin-Lin-Chu unit-root test for all the Variables based on Augmented Dickey-Fuller tests

Ho: All panels contain unit roots Number of panels (N) = II

Ha: Panels are stationary Number of periods (T) = 14

Asymptotics: T/N o

Var Pane	el-unadjuste	d ADF	1%	5% F	-values
Lags					
pftytta	-17.910	-3.473	-2.880	0.000	I
atmtepay	-7.253	-3.473	-2.880	0.010	I
postepay	-4.367	-3.473	-2.880	0.620	I
webtepay	-3.068	-3.473	-2.880	1.000	I
mobtepay	3.025	-3.473	-2.880	1.000	I
lnta	-0.067	-3.473	-2.880	0.879	I
<u>lnepay</u>	-2.720	-3.473	-2.880	0.524	<u> </u>

Source: Authors' STATA 14.2 Outputs

Table 2 portrays the Levin-Lin-Chu unit-root test which assumes that the ratio T / N approaches zero given that the number of panels (DMBs) is greater than the time periods. At 95% confidence limit both the p-values and adjusted t-statistics strongly suggest presence of a unit root in five predictors excluding pftytta and atmtepay that passed the stationarity tests at 1% level of significance. That is, the all-inclusive model (is non-stationary) does not have constant mean, variance and covariance (no autocorrelation) among periods of equal distance.

Table 3: Single Equation Cointegration Tests

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Series: pftytta atmtepay postepay webtepay mobtepay lnta lnepay

Sample: I 154 Included observations: 154

Null hypothesis: Series are not cointegrated Cointegrating equation

deterministics: C

Automatic lags specification based on Schwarz criterion (maxlag=13)

† 011	ot n	tisti
1411	-514	111211

dependent	С	prob.*	z-statistic	prob.*
pftytta	-10.68785	0.0000	-130.8499	0.0000
atmtepay	-1.812847	0.9950	-9.906743	0.9861
postepay	-2.166944	0.9841	-15.66389	0.8967
webtepay	-1.321421	0.9990	-4.315020	0.9996
mobtepay	-0.688502	0.9999	-1.553276	1.0000
lnta	-0.646225	0.9999	-2.250302	0.9999
lnepay	-0.940607	0.9997	-2.344167	0.9999

Source: Authors' STATA 14.2 Outputs

Table 3 portrays the values of tau-statistic, z-statistic and their p-values. Since the p-values for all entered variables (excluding pftytta) exceed P < 0.05, it implies that predictor variables are not cointegrated with pftytta signaling no long-run relationship existing between them. In other words, for the entered variables, it is not necessary to run an error correction model.

Test of Hypotheses (All expressed in Null Forms)

- i. Automated teller machine (atmtepay) transactions value exerts nonsignificant effect on profit for the year (pftytta) of deposit money banks (DMBs) in Nigeria.
- ii. Point of sales (postepay) transactions value has no significant effect on profit for the year of DMBs in Nigeria.
- iii. Web payment (webtepay) transaction value has no significant effect on profit for the year of DMBs in Nigeria.
- iv. Mobile (mobtepay) transactions value has no significant effect on profit for the year of DMBs in Nigeria.

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Table 4: Panel Least Squares Regressions

Prais-Winsten regression, correlated panels corrected standard errors (PCSEs)

Group variable:	firm		Number of obs	=	154
Time variable:	year		Number of group	s =	11
Panel s:	correlated (ba	al anced)	Obs per group:	min =	14
Autocorrelation:	common AR(1)			avg =	14
				max =	14
Estimated covaria	nces =	66	R- squar ed	=	0. 0650
Estimated autocor	relations =	1	Wald chi2(6)	=	14. 46
Estimated coeffic	ients =	7	Prob > chi 2	=	0. 0249

	Pá	anel - correct	ed			
pftytta	Coef.	Std. Err.	Z	P> z	[95% Conf .	Interval]
at mt epay post epay webt epay mobt epay I nt a I nepay _cons	4045467 . 5978891 0135472 0409536 . 0044628 0070854 . 0479808	. 1323721 . 7325017 . 0429592 . 4343248 . 0020242 . 0029742 . 0433013	- 3. 06 0. 82 - 0. 32 - 0. 09 2. 20 - 2. 38 1. 11	0. 002 0. 414 0. 752 0. 925 0. 027 0. 017 0. 268	6639912 8377879 0977456 8922146 . 0004954 0129147 0368882	1451022 2. 033566 . 0706512 . 8103074 . 0084301 0012561 . 1328498

rho . 5345913

Durbin-Watson statistic (original) 1.16

Durbin-Watson statistic (original)

1.94

Table 4 above indicated that although the cumulative impact of the regressors on the dependent variable is significant (t-statistic = Wald chi² =14.46; p-value = p > |z| = 0.0249 < 0.05), individual effect (is nonsignificant except for automatic teller machine (p-value = 0.002, t-statistic = -3.06), natural logarithm of total assets (p-value = 0.027, t-statistic = 2.20) and natural logarithm of total e-payment (p-value = 0.017, t-statistic = -2.38) that exerted very strong effects on the same regressand. In other words, the influence of the control variables is statistically relevant. However, the R-squared = 7% showed that movements in the targeted variable are weakly explained by these explanatory variables.

5.0 CONCLUSION

The results of this study have proven that all predictors (excluding automated teller machine transactions) exerted nonsignificant effects on profit for the year deflated by total assets (basically return on assets) of DMBs in Nigeria. Remarkably, the two control variables have statistically significant influence on the predicted variable. These results are aligned to findings of Jonah, Egbe and Richard (2020), Kibet and Kiprop (2018). These study findings are, however, opposed by those of Leila, Rezaei and Razmi (2019), Saleem, Akhter, Baber, Bashir and Haider (2019), Ugbede, Yahaya and Edicha (2019). It seems withdrawing cash from ATM and other services at lowest

costs ensured its relevance continually. Nigerians believe in cash, gold and other physical assets, not fabled secondary instruments.

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APPENDIX I: RAW / COLLATED / PROCESSED DATA



EFFECT OF INFORMATION TECHNOLOGY ON PERFORMANCE OF DEPOSIT MONEY BANKS

1544	77.04	TA	WTr	ATM	100	neam r	MOSP AT	ZPAr	1544	78M	ATT/TTA	ATMITERAL	ADSTEAM?	recations of	MORTEMA	AT65	MEP AT
2009	r 🕮 h	2,174,0 56	4,901	546.60	11.40	84.15	127	20,001	2009	- 1		0.016037496			4391 900-65	14562 (0500	
2010		2,205,254	20,411	399.71	12.72	25.05	665	20,121	2010	- 1		0.01995315			0.0000005		9.909519335
2011		2,186,129	10,636	1,561.74	31.02	59.61	10.90	20,975	2011	!		0.065140055			0.000791654	1497431736	
2012		3,226,367	ಡ್ರಮ	1,994,65	40.01	31.57	3151	27,224	2012	!		0.077990407			0.001157765		10.21200113
2012		3,6659,001 4,343,737	70,601 64,011	3)62,6188 3)83,6184	161.02	47.00 74.04	147.00 346.47	36,109 51,121	2017	- :		0.07034457			0.000184610 0.00677748	15.169.50699	10.44195.065
2015		4156189	15,146	2,970.25	4451	91.50	4236	55,316	2015	- ;		0.070495999			0.007054505	1524251227	
2016		4,70 6,005	12,243	4,000.13	759.00	122,26	75690	75,907	2015	- ;		0.054659046			0.009041757		11.35035.218
2017		5,23 6,537	37,700	6407.59	1,409.01	194.60	1,102.00	104,676	2017	i		0.05(500)50			0.010527724		11.55467514
2010		5,566,316	59,667	6460.09	2,363.11	673.00	1,97425	139,671	2018	i		0.045779954			0.014736905	15500 60000	
2019		6200,526	70,665	6512.61	2,204.75	479.14	5,000.95	H1,905	2019	i		0.014737546			0.0114-9790		12,99995,247
2020		7,59 9,039	69,730	6700.12	201265	391.22	8,004,74	1,174,754	2020	- 1	0.011659976	0.005700474	0000346009	0.00009451	0.005609509	15,655,30191	10.97556900
2021		8902270	151,079	21,221	24,488	545,040	50,700	1,670,500	2021	- 1	0.016913647	0.012709046	001460900	0206773985	0.001621464	16005 19965	14-200-00-50-4
2022		10577,710	126,173	30,646	41,006	760,660	111,122	1550,445	2022	- 1	001297259	0.021057200	0.006467374	0505113630	0.071671129	1617435651	14,35405 (35
2009	ств	1,056504	23,697	546.60	11.40	64.15	127	20,001	2009	,	000000	0.016007406	00000366677	0.000797447	4321 900-65	1247949557	
2010		1,152,001	34,347	399.71	12.72	25.05	66	20,121	2010	2		0.01995315			0.0000005		9,909519335
2011		1,600,650	51,742	1,561.74	31.62	59.61	10.90	20,975	2011	2		0.055140055			0.000791654	1439090774	10.0947669
2012		1,734,676	67,295	1,964,66	48.01	31.57	3151	27,226	2012	2	0.056016036	0.077990407	000175056	0001159469	0.001157765	1406644765	10.21200113
2013		2,102,046	90,004	2,626.94	161.02	47.00	14240	36,109	2013	2	0.042910553	0.07804457	0.004 459276	0001310477	0.000954690		10,49429742
2014		2,25,5,977	94,695	3,679.00	312.07	74,04	34647	51,121	2014	2	401080104	0.071990775	0.005 (04535	000144009	0.00577745	1467747367	10.04195.055
2015		2,524,594	99,437	2,970.25	4451	91.50	44936	56,018	2015	2	0.009097323	0.070495999	0.007957004	0001676123	0.007054505	1474159092	10.90975949
2016		2,116,282	132,261	4,988,13	759.00	100,06	75690	76,907	2016	2	0.013116839	0.064659046	0.0009.000000	0.00172104	0.009941757	14,9521959	11.35005.216
2017		3,25 1,097	167,913	6,407.59	1,409.01	194.60	1,102.00	104,676	2017	2	0.050105975	0.05(500)50	0.013.468021	0.001763537	0.010527774	1500479901	11.55467514
201e		3,297,343	194,640	6,460.09	2,360.11	ങ്ങയ	1,97435	138,671	2018	2	0.056166941	0.046779954	0017 (05352	0004474271	0.014736925	15,0055000	11.6096565
2019		2754919	195,649	6512.61	3,204.75	479.14	5,000.95	441,906	2019	2	0.052369513	0.014737546	0.007757100	0001091995	0.0114-9790	15,139,64197	12,99995,247
2020		1,911,023	201,440	6700.12	2012/05	391.22	8,004,74	1,174,754	2020	- 2	0.040730956	0.005700474	0000346009	0.00009451	0.005009509	1541361735	10.97656900
2021		5,406,005	174,609	21,221	34,455	545,040	50,700	1,670,500	2021	2	0.000 (00.00)	0.012709046	0.014609000	0306773985	0.001621464	15.500.56049	1400,000,004
2022		6446456	169,170	32,646	41,006	760,660	111,122	1,550,440	2022	2	0.006042791	0.021057200	0.006467374	0505113530	0.071671129	15,679,04109	14,35405 135
2009	LIDES ILA	363,477	2,221	544.60	11.40	84.15	127	20,001	2009	2	0.005127705	0.016007426	0.0000 3666577	0.000797447	A321 900-65	12,6007160	10.21164.902
2010		യാരുക്ക	4,999	399.71	12.72	75.05	665	20,121	2010	2	0.007679569	0.019955315	0000607175	0001311666	0.0000005	1000010004	9,909519335
2011		737,994	2,544	1,561.74	31.02	59.61	10.90	20,975	2011	2	0.000501050	0.055140055	0001793949	0.00040004	0.000791654	1251155546	10.0947659
2012		91.4,360	16,200	1,984,66	49.01	31.57	3151	27,220	2012	2	0.018804220	0.077990407	000176050	0001159460	0.001157765	12775 97955	10.21200113
2013		1,001,217	7,721	2,626,94	161.02	47.30	143.00	36,109	2013	2	0.007141027	0.07804457	0.004.459076	0.00131 0477	0.000484000	13,893,59762	10,49429742
2014		1,197,005	10,795	3,67%.00	317.07	74.04	34647	51,121	2014	2	0.011622222	0.071900735	0.005 104535	0001446009	0.00577745	12,995,99073	2020144.01
2015		1,201,722	10,994	2,970.25	44.51	91.50	H225	55,018	2015	2	0.011200051	0.070495999	0.007957004	0001626123	0.007954505	1400018075	10.90975949
2016		1,298,141	9734	4,988,13	759.00	120,26	75690	76,907	2016	2	0.007499415	0.054659046	0.0009.000000	0.00172104	0.009941757	14,0754430	11.35035.210
2017		1,379,214	17,759	6,407.59	1,409.01	194,60	1,102.00	104,676	2017	2	0.012007	0.051500150	0.013.469021	0001763537	0.010527724	14.13760430	11.55467514
201e		1,71 9,880	22,426	6,460.09	2,360.11	ങ്ങയ	1,97435	138,671	2018	2	0.013339977	0.046779924	0017 (05353	0.004674271	0.014736925	1406776660	11.6096565
2019		2,114,007	29,425	6512.61	3,204.75	470.14	5,000.95	441,906	2019	2	0.013445600	0.014737546	0007757100	0001091995	0.0114-9790	14564 10995	12,99995,247
2020		2,75 6,146	26,650	6,700.12	2012/02	391.22	8,004,74	1,174,754	2020	2	0.009557991	0.005700474	0000346009	0.00009451	0.005009509	14,60007	13,97556933
2021		3,780,454	20,104	21,221	34,455	545,040	50,700	1,670,500	2021	2	0.007047929	0.012709046	0.014609000	0306773985	0.001621464	15,000,49009	1400,000,004
2022		2,989,0009	46,734	32,646	41,006	760,660	111,122	1,550,440	2022	3	0.011713165	0.021057709	0006467374	0202113620	0.071671129	15.199.05209	14-25405 125
2009	ACT22	693,794	P. 1954	544.60	11.40	64.15	127	20,001	2009	1	-0000014020	0.016037436	0.0000.366677	0.000797447	4391 900-65	12449-91595	1021164902
2010		60.1604	11,059	399.71	12.72	25.05	665	20,121	2010	1	0.013752075	0.019953315	0000607175	0001241959	0.0000005	13,5993799	9,909519335
2011		1,629,000	15,379	1,561.74	31.02	59.61	10.90	20,975	2011	1	000051-1012	0.065140055	0001790949	0.00348624	0.000791654	1420047970	10.0947659
2012		1,745,177	26,465	1,994,66	48.01	31.57	3151	27,229	2012	1	0.0020002064	0.077990407	000175056	0.001159469	0.001157765	14077000054	10.21200113
2013		1,605,466	35,799	2,626.94	161.02	47.00	142.00	36,109	2013	1	0.019775904	0.070044457	0.004.459076	0001010477	0.000354690	14,400 000005	10,49429742
201±		2,104,361	42,117	3576.00	317.07	74.04	34647	51,121	2017	1	0.000011125	0.071990775	0.005 104536	00011140000	0.00577745	1455952040	10.04195.055
2015		2,591,220	65,669	2,970.25	44.51	91.50	44326	55,018	2015	1	0.005419990	0.070495999	0.007957004	0001626123	0.007954505	1476768180	10.90975949
2016		3,463,666	71,439	4,999,13	759.00	139,36	75690	76,907	2016	_		0.054650046	0.0000000000	0.00172104	0.009041757	15000 (6015	11.25025.214
						12.2	1344	,		-	Щиделения						
2017		4,102,243	60,097	6,407.59	1,409.01	194.60	1,102.00	104,656	2017	ī		0.05(500(50			0.010527774		11.55467514
2017 2018											0.014647363		0.013.469301	0.001763537	0.0105277724 0.014736928	15227 04446 15415 73750	11.55667.514 11.6596565
		4,102,240	60,097	6,407.59	1,409.01	194,60	1,102.00	104,676	2017		0.014647353 0.01917199	0.051500150	0.013.460321 0.017.165352	0001763537 0004674371		153270***6	11.55667.514 11.6596565
2019 2020		4,102,243 4,954,157	60,067 94,961 94,057 105,010	6,407.59 6,400.09	1,409,61 2,362,11 2,304,75 2,612,65	NA അമ	1,102.00 1,974.25	104,676 134,671	2017 2018	1	0.014647363 0.01917196 0.013167437 0.013213466	0.061500150 0.046779950 0.014737546 0.005703474	0.013 466021 0.017 165352 0.007 252 109 0.000 245009	0.001763537 0.004974271 0.001091995 0.00002451	0.014736905 0.01149760 0.006609569	15227 04446 15415 73750	11.6096565 11.6096565 12.99665247
2019 2019 2020 2021		4,102,240 4,954,157 7,140,157 6,679,746 11,701,965	60,067 94,961 94,057 105,010 160,215	6,407.59 6,460.09 6,517.61 6,700.12 21,231	1,409,61 2,260,11 2,204,75 2,612,65 24,455	194,60 675,90 476,14 391,22 545,040	1,102,00 1,974,25 5,000,95 6,004,74 50,700	104,656 134,671 441,906 1,174,754 1,670,500	2017 2019 2019 2020 2021	1	0.014647353 0.01917190 0.013167437 0.013213490 0.01365659	0.061500150 0.0467797546 0.014737546 0.005703494 0.012709346	0.013 466071 0.017 165353 0.0077557108 0.0003745309 0.014 659500	0.001763537 0.004674371 0.001091995 0.00002451 0.00002451	0.014735325 0.01149763 0.005637509 0.001651464	15,227,04446 15,415,73756 15,761,68339 15,97656365 16,277,62773	11.55607.514 11.6096565 12.99665.247 13.97656.900 14.00965.554
2019 2020 2021 2022		4,102,343 4,95,4,157 7,143,157 9,579,746 11,731,965 14,972,309	60,067 94,961 94,057 105,010 160,715 155,670	6,407,59 6,460,09 6,512,61 6,700,12 21,201 22,646	1,409.01 2,300.11 2,304.75 2,012.65 24,455 41,605	194,60 675,90 476,14 391,22 545,040 760,660	1,102.00 1,974.25 5,000.95 8,004.74 53,208 111,122	104,656 134,651 441,666 1,174,754 1,650,560 1,550,440	2017 2019 2019 2020 2021 2022	1	0.014647353 0.01917196 0.013167437 0.013213466 0.01365659 0.010410753	0.05(500)50 0.04575950 0.014737546 0.005703454 0.012709346 0.02(057700	0.013 466021 0.017 165252 0.007 752 109 0.002 745209 0.014 654000 0.005 467274	0.001763537 0.004974771 0.001091995 0.00009451 0.3065777665 0.505447656	0.014736325 0.01149763 0.00663509 0.001651464 0.071671139	15,227,04446 15,415,73756 15,761,68539 15,976,50305 16,277,62773 16,521,71299	11.6060514 11.606655 12.6665347 13.6765630 14.0060554 14.0566554
2019 2019 2020 2021 2022 2009	UBA	4,102,243 4,954,157 7,143,157 6,679,746 11,731,985 14,972,369 1,544,777	60,067 94,961 94,057 106,010 160,215 155,675 2,075	6,407.59 6,460.09 6,517.61 6,700.12 21,201 22,646 546.60	1,409,61 2,260,11 2,204,75 2,612,65 24,455 41,626 11,62	194.60 673.10 472.14 391.27 545,040 760,660 94.15	1,107.00 1,974.25 5,060.95 8,004.74 50,766 111,122 1,27	104,676 136,671 441,966 1,174,754 1,670,560 1,550,443 30,661	2017 2019 2019 2020 2021 2022 2009	1	0.014647353 0.01917190 0.013167497 0.013213400 0.01365659 0.010410752 0.001533460	0.05/500/50 0.045779/50 0.014737546 0.005700424 0.012709046 0.021057700 0.016237426	0.013 466071 0.017 165353 0.007 753 108 0.003 245309 0.014 654300 0.005 467374 0.000 365677	0.001763537 0.004674271 0.001091995 0.00002451 0.306273995 0.506242959 0.000797447	0.014705905 0.01144790 0.00607509 0.001651464 0.071671179 4371400465	15277 04446 15415 73750 15791 66539 15976 50005 16277 60773 16531 71299 14252 97615	11.60665514 11.606655 12.66665247 13.6765630 14.0660554 14.05405125 14.05405125
2019 2020 2021 2022 2009	USA	A,102,243 A,65,4,157 7,140,157 8,67,9,746 11,731,965 14,972,009 1,54,9,777 1,61,7,696	60,067 94,961 94,057 105,010 160,715 155,670 2,075	6,407.59 6,460.09 6,517.61 6,700.17 21,201 32,646 546.60 398.71	1,409,61 2,260,11 2,204,75 2,612,65 24,455 41,605 11,60	194,60 675,90 479,14 391,22 545,040 760,660 94,15	1,107.00 1,974.75 5,000.95 9,004.74 50,700 1111,122 1,27 6,65	20 (5) (220 m) (220 m) (1)27 227 m) (320 m) (320 (320 m)	2017 2019 2019 2020 2021 2022 2009 2010	1	0.014647353 0.01917199 0.013167477 0.013213490 0.01355679 0.001533469 0.00036865	0.05/500/50 0.045779950 0.014737546 0.005700494 0.017709046 0.0140577496 0.0146553/5	0.013 466071 0.017 165353 0.007 757 106 0.007 467030 0.014 607030 0.006 467774 0.000 56677 0.000 667 175	0.001763637 0.004674271 0.001091995 0.0003451 0.306773465 0.505447639 0.002797447	0.01473505 0.01149760 0.00507509 0.001651464 0.071671179 432130546 0.000005	15,227,04446 15,415,72756 15,791,66529 15,97654005 16,277,627773 16,521,71299 14,252,97615 14,296551247	11.60660514 11.606605 12.6666547 13.6666500 14.0060504 14.05405105 10.01164600 9.606519005
2019 2019 2020 2021 2022 2009 2010 2011	u B A	A,100,040 A,954,157 7,140,157 8,679,746 11,701,965 14,970,009 1,546,777 1,617,696 1,900,405	50,087 94,981 94,057 105,010 150,215 155,673 2,075 598 85,601	6,407,59 6,460,09 6,517,61 6,700,17 21,201 20,646 546,60 299,71 1,561,74	1,409,61 2,260,11 2,204,75 2,612,65 41,606 11,60 12,77 21,60	194,60 673,90 476,14 391,72 545,040 760,660 94,15 75,05	1,102.00 1,974.25 5,000.05 9,024.74 53,200 1111,122 1,27 6,65 1,000	104,655 104,671 441,965 1,174,754 1,670,560 1,550,440 20,661 20,121 20,975	2017 2019 2019 2020 2021 2022 2009 2010 2011	1 1 1 1 5 5 5 5	0.014547250 0.01917199 0.010167497 0.017210499 0.01055679 0.010410750 0.001550469 0.000059667 -0.00054109	0.081500150 0.046779954 0.014777546 0.005770474 0.017709246 0.01657709 0.01965215 0.06514055	0.013 460031 0.017 165352 0.007 752 100 0.010 745300 0.016 467774 0.000 365677 0.000 652 175 0.001 750440	0.001762507 0.004674271 0.001061995 0.0000451 0.00077365 0.50574260 0.007797447 0.001244664 0.00746604	0.014705905 0.01149750 0.00507509 0.001651464 0.071671179 4221405405 0.000791656	15,777 64.145 15,761 65259 15,761 65259 15,975 56065 16,777 69775 16,521 71,799 14,755 97615 14,765 51,747 14,466 65359	11.40467-514 11.4046545 12.49465-247 13.49456-305 14.00465-524 14.05465-175 10.01164-907 9.404519055 10.0447659
2019 2019 2029 2010 2011 2011 2011	UBA	A,100,040 A,954,157 7,140,157 8,679,746 11,701,965 14,970,009 1,548,777 1,617,696 1,900,405 2,770,900	50,087 94,981 94,057 105,010 150,715 155,670 5,981 54,765	6,497,59 6,460,09 6,512,61 6,700,12 21,231 32,646 546,60 398,71 1,561,74 1,964,66	1,492.81 2,262.11 2,264.75 2,612.65 24,465 41,606 11,60 12,77 21,60 48,61	194,60 673,10 476,14 391,77 545,040 760,660 94,15 75,05 54,61 31,57	1,107,00 1,974,25 5,000,00 8,004,74 50,700 1111,122 1,27 6,65 1,000 0,151	104,655 106,671 441,665 1,174,754 1,600,560 1,500,440 20,061 20,121 20,975 27,296	2017 2019 2029 2021 2022 2029 2010 2011 2012	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	0.014547353 0.013167427 0.013167427 0.013213440 0.01325459 0.001533440 0.00039465 -0.00354139 0.004494465	0.05/500/50 0.045779/54 0.01477/546 0.012770/44 0.012770/46 0.0165770/6 0.019652/15 0.055/4055 0.077990407	0.013 460001 0.017 165352 0.007 752 100 0.002 745300 0.014 63000 0.005 467774 0.000 55677 0.000 632 175 0.001 750564 0.001 75056	0.001762507 0.0046742771 0.00100 1995 0.00002451 0.000277766 0.0007777450 0.0007797447 0.001744660 0.00046504	0.014706925 0.01149760 0.001651464 0.071671129 4221 907-65 0.000791654 0.001157765	15.297 (JULY) 15.415 70756 15.791 68209 15.976 50005 16.277 69770 16.501 71299 14.352 97615 14.366 5770 14.466 68770	11.55607 514 11.609605 12.99605 247 13.97626 902 14.00605 524 14.05405 125 10.01164 902 9.90619 205 10.0947659 10.21200 113
2019 2019 2020 2021 2022 2010 2011 2012 2013	UBA	A,102,243 A,95 A,157 7,140,157 8,67 9,746 11,73 1,965 14,97 2,009 1,54 8,777 1,61 7,696 1,92 9,425 2,77 2,623 2,64 2,736	50,067 94,961 94,057 105,010 150,215 155,670 2,075 598 15,601 54,765 46,601	6,407,59 6,460,09 6,512,61 6,700,12 21,201 32,646 546,60 399,71 1,561,74 1,664,66 2,676,94	1,402.01 2,262.11 2,264.75 2,612.65 24,455 41,626 11.62 12.77 21.62 44.61 161.62	194,60 675,40 476,14 391,22 545,640 740,660 94,15 75,05 54,61 31,57 47,30	1,107,00 1,974,25 5,000,005 8,004,74 50,700 111,122 1,27 6,05 1,000 0,151 1,47,00	104,676 136,671 441,966 1,174,754 1,670,560 1,550,440 30,121 20,975 27,229 36,109	2017 2019 2020 2021 2022 2009 2010 2011 2012 2013	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	0.014547250 0.01917190 0.019167497 0.019910440 0.01955670 0.001530460 0.00059650 -0.0054139 0.00409465 0.017606555	0.051500153 0.046779954 0.014737546 0.005703494 0.012709346 0.01657799 0.0166937496 0.0166937496 0.075690407 0.076944457	0.012 460291 0.017 162352 0.007 752 100 0.002 745290 0.014 52500 0.005 457774 0.000 552 175 0.001 752540 0.004 454775	0.001762527 0.0046742771 0.00100 1995 0.00020451 0.00077266 0.000797447 0.001744950 0.00246534 0.00115 9460 0.00115 9460	0.014205025 0.01149702 0.00502509 0.001651494 0.071671129 4.271 000-05 0.000791656 0.000791656 0.0001157765 0.000784690	15.297 (J.1145 15.415 70758 15.416 66509 15.476 56065 16.277 62770 16.521 71299 14.252 47615 14.265 51247 14.466 66739 14.665 7770 14.767 15679	11 25607 514 11 609605 12 99605 547 12 99605 500 14 20960 504 14 25405 105 10 20164 900 9 9061 9005 10 0947659 10 21000 110 10 74479 747
2019 2029 2021 2022 2029 2010 2011 2012 2013	UBA	A,102,243 A,95,4,157 7,143,157 8,679,746 11,731,965 14,972,369 1,548,777 1,617,696 1,920,435 2,772,903 2,642,246 2,762,573	60,067 94,061 94,057 106,010 150,015 150,673 2,375 566 16,601 54,765 46,601 47,907	6,407,59 6,460,09 6,517,61 6,700,17 21,201 32,646 546,60 398,71 1,661,74 1,664,65 2,678,66	1,40% e1 2,360,11 2,304,75 2,913,65 24,455 41,606 11,60 12,77 31,60 46,61 161,60 312,67	194.60 675.00 176.14 291.22 545,040 760,660 94.15 75.05 54.61 11.57 47.30 74.04	1,107,00 1,97,425 5,00,035 8,00,474 53,700 111,122 127 6,65 1,030 31,51 147,00 34,647	104,675 106,671 441,965 1,174,754 1,670,500 1,550,440 20,091 20,121 20,975 27,279 26,109 51,121	2017 2019 2020 2021 2022 2009 2010 2011 2012 2013	1 1 1 5 5 5 5	0.014547253 0.01917190 0.012157427 0.012212440 0.01255670 0.001530460 0.00055657 -0.00254657 0.004094655 0.017541442	0.051500153 0.046779954 0.014737546 0.005703494 0.012709346 0.01657749 0.01665315 0.05514055 0.077690407 0.078034457	0.012 460201 0.017 162352 0.007 752 100 0.002 745200 0.014 625200 0.005 467774 0.000 502 175 0.001 752540 0.004 450775 0.005 104525	0.00176:25.77 0.00467-4771 0.001061995 0.00029-51 0.000277:465 0.0007974-454 0.000746534 0.000746534 0.00115:9466 0.000110-477	0.014206905 0.01144790 0.00500509 0.001651494 0.071671129 4.271400405 0.000791650 0.000791650 0.000784690 0.000787450	15,297 (JAME) 15,415 70756 15,761 65209 15,976 56205 16,277 60773 16,521 71,799 14,265 51,247 14,466 55773 14,767 15,679 14,601 67365	11.55607 514 11.6096075 12.99605 524 13.97656 909 14.05965 105 14.05965 105 16.01164 909 9.9095 1909 16.0147659 16.044765 905
2019 2020 2021 2022 2029 2010 2011 2012 2012	UBA	A,102,243 A,66,4,157 7,143,157 8,67,9,746 11,731,965 14,972,009 1,54,9,777 1,617,645 2,972,623 2,642,246 2,762,573 2,762,573 2,762,573	60,007 94,901 94,007 106,010 160,715 155,673 2,375 590 16,601 54,765 46,601 47,907 59,654	6,427,50 6,460,00 6,512,61 6,700,12 21,231 30,646 546,60 309,71 1,664,65 2,609,94 3,679,66 3,970,25	1,465.61 2,565.11 2,704.75 2,615.65 24,455 41,056 11,05 13,77 31,05 46.01 161,05 312,07	194.50 675.90 476.14 291.77 545,040 750,650 94.15 75.05 59.61 21.57 47.20 74.04	1,02200 1,97425 5,00035 8,00474 53,700 111,122 137 665 114,90 3151 142,00 34647	104,676 136,671 111,965 1,174,754 1,670,560 1,550,440 20,081 20,121 20,975 27,238 26,109 51,121	2017 2019 2019 2020 2021 2022 2010 2011 2012 2013 2014 2015	1 1 1 1 2 3 3 5 5 5	0.014647250 0.01917199 0.019167497 0.019219499 0.01925269 0.010150469 0.0000554199 0.00196485 0.017636555 0.017636555 0.017641449	0.051500150 0.0457797546 0.014777546 0.0057704046 0.0110577000 0.0110577000 0.011057700 0.011057740 0.017040447 0.077044457 0.0770445775	0.012 460201 0.017 162352 0.007 752 100 0.002 745299 0.014 679202 0.005 467774 0.000 556777 0.000 770244 0.001 752756 0.004 450776 0.005 104526 0.007 95264	0.00176:25.77 0.00467-4771 0.00108-1995 0.00029-51 0.20677:365 0.50677:7465 0.00124-959 0.00124-959 0.00125-9460 0.00125-9460 0.00125-9460 0.00125-9460	0.014206925 0.01144790 0.00502509 0.001651464 0.071671129 422140545 0.000005 0.00071656 0.000764590 0.000764590	15,297 (J.I.I.G.) 15,415 70756 15,761 65209 15,976 50005 16,277 62770 16,221 71,299 14,296 51,247 14,456 65790 14,456 557720 14,456 557720 14,456 57770 14,456 57770 14,456 57770 14,456 57770 14,456 57770	11.55607 514 11.609605 12.99605 247 13.97605 900 14.05605 524 14.05405 105 10.01164 900 9.9961 9005 10.047659 10.047659 10.447659 10.447659 10.447659 10.447659
2019 2020 2021 2022 2009 2010 2011 2012 2013 2014 2015 2016	UDA	A(02)45 A(6.4)57 7,140,157 8,67,974 11,751,965 14,972,009 154,977 1,61,7665 1,92,945 2,742,95	60,007 94,901 94,007 106,010 160,715 155,670 2,075 590 16,601 54,765 46,601 47,907 59,654 77,064	6,407.59 6,400.09 6,512.61 6,700.12 21,301 20,646 546.60 2942.74 1,661.74 1,664.65 2,666.94 2,676.66 2,676.66 2,676.66	1,468.61 2,560.11 2,764.75 2,412.65 24,455 41,606 11,60 12,72 31,60 46,01 161,62 212,67 44,51 161,62	194.50 675.90 476.14 291.27 545,040 760,650 94.15 75.05 59.61 21.57 47.20 74.04 91.56	(10720 197425 508035 800474 50,708 111,122 127 625 14220 24547 24547 24540 75630	104,676 106,671 441,965 1,174,754 1,676,560 1,580,440 20,081 20,021 20,021 20,759 26,109 51,121 56,010	2017 2019 2020 2021 2022 2010 2010 2011 2012 2013 2014 2015 2016	5 5 5 5 5 5 5	0.014647350 0.01917196 0.013167427 0.012712460 0.010516509 0.001500460 0.00059550 -0.005 0.004694950 0.017041440 0.001671701 0.00050650	0.06/200/50 0.014707946 0.005700494 0.017705046 0.001670796 0.019052015 0.019052015 0.079069407 0.079092090 0.06465046	0013 46001 0017 16065 0007 750100 0010 745000 0014 67000 0006 60774 0000 60175 0001 70040 0004 45076 0005 10406 0007 95064	0.001762507 0.004674071 0.001081995 0.0000451 0.0007451450 0.000797447 0.001244654 0.0014654 0.001159466 0.001159466 0.00146761047 0.001446096	0.014206/05 0.011447/00 0.000607/504 0.001651444 0.001651104 4.2214007-05 0.000701654 0.000701654 0.00054670 0.00064670 0.000647745 0.000647755	15,277 (J.1.14) 15,415 70756 15,761 68259 15,976 56056 16,577 50775 16,251 71759 14,256 51747 14,456 66779 14,767 15,679 14,767 15,679 14,681 67705 14,690 66447 15,069 54465	11.55607 514 11.6096575 12.99665 524 12.99665 524 14.50965 525 14.50965 125 16.51164 902 9.909519 205 16.6447659 16.241765 615 16.6447659 16.241765 615 16.641765 615 16.641765 615
2019 2020 2021 2022 2009 2010 2011 2012 2013 2014 2015 2016 2017	UBA	4,102243 4,654,157 7,143,157 4,673,744 11,751,965 1,549,777 1,617,965 1,920,425 2,772,903 2,642,762 2,762,975 2,762,975 2,762,975 2,762,975 2,762,975 2,762,975 2,762,975 2,762,975	60,067 94,961 94,057 105,010 150,975 596 15,965 45,601 45,601 45,601 45,601 45,601 45,601 47,907 59,654 77,954	6,407.59 6,400.09 6,512.61 6,700.12 21,201 20,646 546.60 299.71 1,664.74 2,676.69 2,970.25 4,666.10 6,407.59	1,465.61 2,560.11 2,662.65 24,455 41,606 11,60 12,77 31,60 46,61 161,60 312,67 756.00 1,465.61	194.50 575.90 479.14 291.22 545,640 64.15 75.05 59.05 74.70 71.04 91.50 194.50 194.50	(10720 (197425 506035 800474 50,706 (111,122 1.27 625 (1826 (114,126 (14726 (14726 (14726 (14726) (14726) (14726) (14726)	104,676 106,671 441,665 1,174,754 1,670,640 1,500,440 20,021 20,0	2017 2019 2029 2029 2029 2010 2011 2012 2013 2014 2015 2016 2017	5 5 5 5 5 5 5 5	0.014647350 0.01917190 0.013167427 0.012213490 0.01055559 0.01055559 0.001555490 0.00056557 0.001555490 0.00056557 0.017541340 0.00056557 0.017541340 0.00056555	0.06/500/50 0.04/57/546 0.01/57/546 0.01/57/546 0.01/57/646 0.01/57/646 0.01/65/5466 0.01/65/5466 0.01/66/5466 0.01/66/5466 0.01/66/5466 0.01/66/5466 0.01/66/5466 0.01/66/5466	0013 480071 0017 185053 0007 757 100 00013 457004 0000 500777 0000 50077 0000 50077 0000 50077 0000 50074 0000 50074 0000 50074 0000 50074 0000 50074	0.001762507 0.004674271 0.00102451 0.00002451 0.000074514 0.00074514 0.00074504 0.00016544604 0.00116477 0.00144604 0.0017104 0.0017104 0.001750507	0.014206/05-00-00114-97900-00105-1445-00-00105-1445-00-00105-00-00105-00-00105-00-00105-00-00-00-00-00-00-00-00-00-00-00-00-0	15,777,044-6 15,415,707,06 15,416,707,06 15,416,700,07 16,776,77 16,776,77 16,776,77 16,776,77 16,776,77 16,	11 .5560° 514 11 .5060° 514 12 .5060° 524 14 .5560° 525 14 .5560° 525 16 .5164° 620 9 .5061° 520 10 .51700° 113 10 .5440° 742 10 .5440° 742 11 .5560° 514
2019 2020 2021 2022 2009 2010 2011 2012 2013 2014 2015 2016 2017 2019	UBA	A,102243 A,954,157 7,143,157 8,67 9,746 11,751,965 1,97 2,009 1,94 9,777 1,91 7,965 1,92 9,45 2,74 2,965 2,76 2,973 2,76 2,973 2,76 2,973 2,76 2,973 4,66 9,794 4,66 9,794	60,067 94,961 94,057 105,010 150,215 150,675 2,375 560 15,765 47,907 54,651 47,907 54,654 77,364 77,364 78,607	6,407.50 6,460.09 6,512.61 6,700.12 21,201 546.60 398.71 1,661.74 1,664.65 2,678.69 2,678.66 1,786.61 3,786.61 3,786.61 3,786.61 3,786.61 3,786.61 6,407.50 6,407.50	1,465.61 2,360.11 2,004.75 2,613.65 24,455 11,60 12,77 31,67 44,01 161,67 312.67 752.60 1,465.61 2,360.11	194.50 575.10 176.14 391.32 545,640 64.15 75.05 59.65 74.70 74.70 91.50 194.50 194.50 194.50 675.90	1,107.00 1,974.25 5,00.06 8,00.474 50.706 111,127 6.65 1,276 0,151 147.00 147.00 1,074.25 1,107.00 1,974.25	104,676 106,671 11,74,754 1,670,540 1,600,440 20,021 20,021 20,975 27,226 26,109 51,010 55,016 76,907 104,676 106,671	2017 2019 2029 2029 2029 2010 2011 2012 2013 2014 2015 2016 2017 2019	1 1 1 3 3 3 3 3 3 3 3	0.014647350 0.01317146 0.013167427 0.01325466 0.016410753 0.001520466 0.00056667 0.0005667 0.01764744 0.01764744 0.01764745 0.01764745 0.01764745 0.01764745 0.01764745 0.01764745	0.06/500/50 0.04/57/50/60 0.01/57/54/60 0.01/57/54/60 0.01/05/7/50 0.01/05/7/50 0.01/05/7/50 0.01/05/7/50 0.01/05/7/50 0.01/05/7/50 0.01/05/7/50 0.01/05/7/50 0.01/05/7/50 0.01/05/7/50 0.01/05/7/50 0.01/57/5/50	0013-46021 0017-16502 0007-25-100 0014-67000 0014-67000 0005-67774 0000-366677 0000-170349 0001-70349 0001-70349 0001-70349 0001-870004 00013-680001 0013-680001	0001761507 0001061995 0.00007451 0.0007451 0.0007457147 0.001741504 0.00154564 0.00154564 0.001510477 0.00174104	0.014706/05 0.01144/90 0.00165/1494 0.00165/1494 0.00165/1494 0.00165/1129 0.000701650 0.00175/1650 0.00175/1650 0.00175/1650 0.00165/7774 0.00165/7774 0.0145/7774	15,775,044-6, 15,715,051,052,051,052,052,052,052,052,052,052,052,052,052	11 32607 514 11.409605 12.99605 207 12.99605 207 14.20960 507 14.20960 507 14.20960 507 16.20164 907 16.20160 115 16.4097 707 16.4097 707 16.4097 707 16.4097 707 16.4097 707 16.4097 707 16.4097 707 16.4097 707 16.4097 707
2019 2020 2021 2022 2009 2010 2011 2012 2014 2014 2015 2014 2016 2017 2019	UBA	A,102243 A,654,157 7,143,157 8,67,946 11,701,966 13,49,777 1,617,966 1,97,240 2,742,962 2,742,96	60,007 94,001 94,007 106,010 150,975 500 15,001 54,765 46,601 47,907 50,607 77,540 70,007	6,407.50 6,400.09 6,512.61 6,700.12 21,201 20,646 546.60 200.74 1,664.65 2,006.94 2,070.25 4,660.09 6,407.50 6,407.50	1,465.61 2,360.11 2,004.75 24,455 41,005 11,005 11,005 1161.00 1161.00 1175.07 146.51 175.00 1,465.61 2,360.11 2,364.75	194.50 575.90 176.17 261.22 545,040 740,650 54.61 51.57 47.20 74.04 91.56 194.50 675.90 476.14	1,102.00 1,974.25 5,000.05 8,004.74 50,700 111,122 6,55 1,620 0,151 142.00 0,464.7 75,630 1,102.00 1,974.25 5,000.05	104,676 108,671 1174,754 1,775,754 1,775,200 1,520,440 20,081 20,091 20,193 20,109 51,121 56,018 76,907 104,677 441,966	2017 2019 2019 2020 2021 2022 2010 2011 2012 2013 2014 2015 2016 2017 2019	1 1 2 3 3 3 3 3 3 3 3	0.014647550 0.01517497 0.015107497 0.01521940 0.01050940 0.01050940 0.00054190 0.00054190 0.017040555 0.017040555 0.017040555 0.01704140 0.000541940 0.01541940 0.01541940 0.01541940	0.06/500/50 0.04/577/6/20 0.01/577/6/20 0.01/57/6/20 0.01/6/57/6/20 0.01/6/57/6/20 0.01/6/57/6/20 0.01/6/57/6/20 0.01/6/57/6/20 0.01/6/57/6/20 0.01/57/6/20 0.01/57/6/20 0.01/57/6/20 0.01/57/6/20	0013-46021 0017-16262 0007-752100 0007-752100 0008-67774 0000-05677 0000-70244 0001-70244 0001-70244 0001-76264 0007-75264 0007-75264 0001-76264 0001-76264 0001-76264 0001-76264	00017615077 00010717916 00010811985 000079571985 00007957147 0001151946 0001151946 0001151946 0001151946 0001151946 0001151946 0001151946 0001151946	0.014706/05 0.0114 (7/05) 0.005075000 0.001671129 4.221 (027-05) 0.000791 (550 0.00079	15.775 (15.715	11 32607 514 11, 0006054 12, 00060524 14, 20060524 14, 20060524 14, 20061524 10, 20164 10, 20061520 10, 2007620 10, 2007620 10, 2007620 10, 2007620 10, 2007620 11, 20065210 1
2019 2020 2021 2022 2009 2010 2011 2012 2014 2015 2015 2016 2017 2019 2019 2019	uBA	A,102243 A,05.4,157 7,14-2,146 11,75.1,465 14,972,269 1,94.7,260 2,972,160 2,762,266 2,762,266 2,762,266 2,762,267 2	60,007 94,901 94,007 106,015 100,015 100,075 590 16,001 45,601 45,601 47,907 59,604 77,764 77,764 77,560 96,000	6,407,50 6,460,00 6,517,61 6,700,17 21,201 22,646 5,46,60 1,964,66 1,964,66 1,964,66 1,964,66 1,964,66 1,964,66 1,964,66 1,964,61 6,407,50 6,407,50 6,407,50 6,407,50 6,407,50 6,407,50	1,465.61 2,365.11 2,364.75 2,415.65 44,666 11.65 12.75 21.67 46.10 212.67 46.10 212.67 146.51 756.60 1,465.61 2,365.47 2,365.47 2,365.47 2,365.47 2,365.47 2,365.47	194.60 675.90 476.14 361.04 760,660 64.15 75.05 147.00 74.04 91.56 194.60 675.00 476.14 261.22	1,102.00 1,974.25 5,660.95 9,024.74 102,022 103,022 103,022 103,022 142,025 14	104,676 109,671 111,754 1,774,754 1,774,754 1,774,754 1,774,775 1,	2017 2019 2029 2020 2021 2022 2009 2010 2011 2012 2015 2015 2016 2017 2019 2020	1 1 1 2 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3	0.014647550 0.01317166 0.01317477 0.01325569 0.010410752 0.01052569 0.010410752 0.01052569 0.01052569 0.017541442 0.010576525 0.01541494 0.015641947 0.015474552	0.06/500/50 0.04/57/694 0.01/57/546 0.01/57/500 0.01/67/500 0.01/67/500 0.01/67/500 0.01/67/500 0.01/67/500 0.01/67/500 0.01/67/500 0.01/67/500 0.01/67/500 0.01/67/500 0.01/67/500 0.01/67/500 0.01/67/500	0013-46021 0017 16002 0007752106 0014-67000 0006-67774 0000 306677 0001 700046 0001 700046 0001 700046 0001 700046 0001 700046 0001 700046 0001 700046 0001 700046 0001 700046	0001761507 0001471771 0001091195 0000747196 0000747746 000174176 000174174 000115146 0001677 000167104 000167104 00017104 000177104 000177104 000177104 000177104 000177104 000177104	0.014708025 0.011447902 0.0060161494 0.071671179 427110745 0.0007085 0.000704505 0.0070876505 0.0076876705 0.0076876705 0.007687605 0.007687605 0.007687605 0.007687605 0.007687605	15.77 p.M.46 15.71 p. 65.75 15.70 p. 65.75 15.70 p. 65.77 15.20 p. 77.75 15.20 p. 77.75 14.75 p. 77.75 15.75 p.	11 32607 514 11 305655 11 305655 12 305655 12 305655 14 20565125 14 2056115 14 2056115 14 2056115 14 205615 14 205615 14 205615 14 205615 14 205615 14 205615 14 205615 14 205615 14 205615 14 205615 14 205615 14 205615 14 205615 14 205615 14 205615 14 205615 14 205615 14 205615 15 205615 16 20561
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APPEDIX III: RESULTS OF SOFTWARES

Vari abl e	Obs	Mean	St d. Dev.	M n	Max
pftytta	154	. 0149363	. 028378	0953184	. 2424154
at mt epay	154	. 0445897	. 0264962	. 0057034	. 0783445
post epay	154	. 0081937	. 0072845	. 0003667	. 0264673
webt epay	154	. 0609682	. 1492761	. 0003245	. 5054426
mobt epay	154	. 0126696	. 0182226	. 0000422	. 0716711
l nt a	154	14. 15501	1. 337393	9. 750453	16. 52171
l nepav	154	11. 64285	1. 545541	9. 909519	14. 32864

Mean estimation Number of obs = 154

	Mean	Std. Err.	[95% Conf	. Interval]
pftytta atmtepay postepay webtepay mobtepay Inta	. 0149363 . 0445897 . 0081937 . 0609682 . 0126696 14. 15501	. 0022868 . 0021351 . 000587 . 012029 . 0014684 . 1077702 . 1245432	. 0104186 . 0403716 . 007034 . 0372038 . 0097686 13. 9421 11. 3968	. 019454 . 0488078 . 0093533 . 0847325 . 0155706 14. 36792 11. 8889

	pftytta	at mt epay	postepay	webtepay	mobt epay	Inta	Inepay
pftytta	1. 0000						
at mt epay	- 0. 0713 0. 3795	1. 0000					
postepay	- 0. 0532 0. 5121	- 0. 1462 0. 0705	1. 0000				
webt epay	- 0. 0353 0. 6634	- 0. 4028* 0. 0000	0. 7490 ³ 0. 0000	1. 0000			
mobt epay	- 0. 0405 0. 6180	- 0. 3486* 0. 0000	0. 8795 0. 0000	0. 9503 ² 0. 0000	1. 0000		
l nt a	0. 1939 [,] 0. 0160	* - 0. 1454 0. 0719	0. 2966³ 0. 0002	0. 3026 ⁴ 0. 0001	0. 3199* 0. 0001	1. 0000	
l nepay	- 0. 0449 0. 5800	- 0. 6334* 0. 0000	° 0. 6544 ⁷ 0. 0000	° 0. 6804 ⁴ 0. 0000	0. 7232* 0. 0000	0. 3449* 0. 0000	1. 0000

Skewness/Kurtosis tests for Normality_____isint

Vari abl e	Obs	Pr (Skewness)	Pr (Kur t osi s)	adj chi 2(2)	Pr ob>chi 2
pftytta	154	0.0000	0. 0000		0. 0000
at mt epay	154	0. 3772	•	•	•
post epay	154	0.0000	0. 2353	18. 56	0. 0001
webt epay	154	0.0000	0.0000	57. 05	0. 0000
mobt epay	154	0.0000	0.0000	65. 50	0. 0000
Intá	154	0.0000	0. 0035	23. 81	0.0000
l nepav	154	0.0007	0.0000	29. 15	0. 0000

EFFECT OF INFORMATION TECHNOLOGY ON PERFORMANCE OF DEPOSIT MONEY BANKS

Shapiro-Wilk Witest for normal data

Vari abl e	Obs	W	V	Z	Pr ob>z
pftytta	154	0. 63390	43. 570	8. 568	0. 00000
at mt epay	154	0. 85931	16. 744	6. 397	0.00000
post epay	154	0.89509	12. 486	5. 731	0.00000
webt epay	154	0. 44043	66. 595	9. 532	0.00000
mobt epay	154	0.62307	44. 859	8. 635	0.00000
Intá	154	0. 93223	8. 066	4. 739	0.00000
l nepav	154	0.87244	15. 181	6. 175	0.00000

Shapiro-Francia W test for normal data

Vari abl e	Obs	W	V'	Z	Pr ob>z
pftytta	154	0. 61569	49. 633	7. 509	0. 00001
at mtépay	154	0. 86185	17. 841	5. 674	0. 00001
post epay	154	0. 89549	13. 498	5. 158	0. 00001
webt epay	154	0. 43888	72. 468	8. 166	0. 00001
mobt epay	154	0. 62110	48. 934	7. 485	0. 00001
l nt a	154	0. 93290	8. 666	4. 324	0.00001
l nepav	154	0. 87475	16. 176	5. 493	0. 00001

Breusch-Pagan / Cook-Weisberg test for heteroskedasticity

Ho: Constant variance

Variables: fitted values of pftytta

chi 2(1) = 23.07Prob > chi 2 = 0.0000

Ramsey RESET test using powers of the fitted values of pftytta

Ho: model has no omitted variables F(3, 144) = 2.35 Prob > F = 0.0753

Model	Obs	ll(null)	II (model)	df	Al C	BI C
	154	330. 555	336. 721	7	- 659. 4419	- 638. 1833

Note: N=154 used in calculating BIC

Vari abl e	VI F	1/ VI F
mobt epay webt epay post epay I nepay at mt epay I nt a	31. 46 15. 77 7. 91 3. 80 2. 31 1. 16	0. 031785 0. 063401 0. 126362 0. 262860 0. 433535 0. 864264
Mean VIF	10. 40	

EFFECT OF INFORMATION TECHNOLOGY ON PERFORMANCE OF DEPOSIT MONEY BANKS

Vari abl e	VIF	1/ VI F
I nepay post epay webt epay at mt epay I nt a	3. 78 3. 41 2. 89 2. 30 1. 16	0. 264684 0. 293268 0. 346200 0. 435242 0. 864326
Mean VIF	2. 71	

. xtset firm year

panel variable: firm (strongly balanced)

riable: year, 2009 to 2022 delta: 1 unit time variable:

Levin-Lin-Chu unit-root test for pftytta

Ho: Panels contain unit roots Number of panels = Ha: Panels are stationary Number of periods = 14

AR parameter: Common Asymptotics: $N/T \rightarrow 0$

Panel means: Included Time trend: Not included

ADF regressions: 1 lag

LR variance: Bartlett kernel, 7.00 lags average (chosen by LLC)

Levin-Lin-Chu unit-root test for atmtepay

Number of panels = Number of periods = Ho: Panels contain unit roots Ha: Panels are stationary 14

Asymptotics: N/T -> 0AR parameter: Common

Panel means: Included Time trend: Not included

ADF regressions: 1 lag

Bartlett kernel, 7.00 lags average (chosen by LLC) LR variance:

EFFECT OF INFORMATION TECHNOLOGY ON PERFORMANCE OF DEPOSIT MONEY BANKS

Levin-Lin-Chu unit-root test for postepay

Ho: Panels contain unit roots
Number of panels = 11
Ha: Panels are stationary
Number of periods = 14

AR parameter: Common Asymptotics: $NT \rightarrow 0$

Panel means: Included Time trend: Not included

ADF regressions: 1 lag

LR variance: Bartlett kernel, 7.00 lags average (chosen by LLC)

Unadjusted t -4. 3670 Adiusted t* 0. 3064 0. 6203

Levin-Lin-Chu unit-root test for webtepay

Ho: Panels contain unit roots Number of panels = 11 Ha: Panels are stationary Number of periods = 14

AR parameter: Common Asymptotics: N/T -> 0

Panel means: Included Time trend: Not included

ADF regressions: 1 lag

LR variance: Bartlett kernel, 7.00 lags average (chosen by LLC)

Statistic p-value

Unadjusted t - 3.0679
Adjusted t* 775.4297 1.0000

Levin-Lin-Chu unit-root test for mobtepay

Ho: Panels contain unit roots
Number of panels = 11
Ha: Panels are stationary
Number of periods = 14

AR parameter: Common Asymptotics: $N/T \rightarrow 0$

Panel means: Included Time trend: Not included

ADF regressions: 1 lag

LR variance: Bartlett kernel, 7.00 lags average (chosen by LLC)

	Statistic	p- val ue	
Unadjusted t Adiusted t*	3. 0248 22. 7896	1. 0000	

EFFECT OF INFORMATION TECHNOLOGY ON PERFORMANCE OF DEPOSIT MONEY BANKS

Levin-Lin-Chu unit-root test for Inta

Ho: Panels contain unit roots Number of panels = 11 Ha: Panels are stationary Number of periods = 14

AR parameter: Common Asymptotics: $NT \rightarrow 0$

Panel means: Included Time trend: Not included

ADF regressions: 1 lag

LR variance: Bartlett kernel, 7.00 lags average (chosen by LLC)

Unadjusted t - 0.0674 Adiusted t* 1.1675 0.8785

Levin-Lin-Chu unit-root test for Inepay

Ho: Panels contain unit roots
Number of panels = 11
Ha: Panels are stationary
Number of periods = 14

AR parameter: Common Asymptotics: $NT \rightarrow 0$

Panel means: Included Time trend: Not included

ADF regressions: 1 lag

LR variance: Bartlett kernel, 7.00 lags average (chosen by LLC)

	Statistic	p- val ue	
Unadjusted t Adiusted t*	- 2. 7202 0. 0589	0. 5235	