05 November 2021

# Nigerian Banks- Financial Inclusion Update e-Naira: A Game Changer?

- Action/Event: The Central Bank of Nigeria (CBN) recently launched e-Naira to improve monetary policy, enhance government capacity to deploy targeted social intervention, and boost remittances through formal channels. This trend is similar to the model adopted by other central banks such as the Bahamas (Sand Dollar), China (e-Yuan), Sweden (e-Krona), and Cambodia (Bakong), which have all introduced their digital currencies as legal tender. There are five types of e-Naira Wallets: Stock Wallet, Treasury Wallet, Branch Wallet, Merchant Wallet and Consumer wallet. The e-Naira speed wallet and e-Naira merchant wallet were launched on Google Play and Apple Stores for consumers and merchants, respectively. The current version of the e-Naira can only be accessed by people with a bank account. However, it was recently announced that a phone application for those who do not have a bank account would be available soon. Depending on the tier group the user belongs to, the daily transaction ranges between N20,000 and N1 million. The account cumulative balance limit at any given moment ranges from N120,000 to N5,000,000. Regarding the pricing structure, peer-to-peer transfers on e-Naira is free. While other transaction costs will be in line with the 2019 regulation on charges by banks, other financial institutions, and non-financial entities.
- Reaction/Impact: From our perspective, we think that e-Naira would help in lowering the cost of printing paper currency, replace cash for low-value payments and also power the government's transfer payments initiative. On its impact on banks, there is a potential for banks to become merchants' primary collection bank, banks may also use the CBN FX API to enhance seamless cross-border payments and remittances with the e-Naira, and Asset management and insurance companies may now be able to accept online payments in e-Naira without incurring the usual merchant service charge. In the interim, we do not see the e-naira as a game changer, however, as the CBN expands its use beyond the current retail framework, it could be, depending on implementation.
- Concern on financial inclusion: According to the EfinA 2020 survey, 64% of Nigeria's adult population of 105.5 million has access to some form of financial services, which is low when compared to South Africa, Rwanda and Kenya. According to Data Portal, over 50% of Nigerians have access to the internet, and around 90% have access to mobile phones. The percentage of people who own smartphones ranges between 23-25%, according to Statista. Given low smartphone penetration, high data charges, and limited internet access, we hope the e-Naira does not end up being a "white elephant" initiative. The CBN also indicated that e-Naira transaction fees will be in line with the current fees template on e-banking transactions. This also raises questions about what the primary driver of financial inclusion would be.
- Financial Intermediation Risk: According to the CBN, "the conversion of bank deposits to e-Naira could have an impact on banks in terms of deposit liabilities and availability of funds for bank lending, fall in liquidity and challenges in liquidity management, and fall in credit assets and shrinking balance sheet. It further stated that banks can effectively respond by shifting from retail funding to more wholesale funding sources; Nevertheless, this could have an impact on their overall cost of funds, high interest rates on credit assets, a negative impact on profitability, and disruption of existing retail-focused strategies. CBN noted that it is aware of the risk and has limited the use of the e-Naira payment system to micro transactions. Depending on the level of adoption and the CBN's eventual position on charges on the e-Naira, it could impact banks revenue streams, including float income, transaction revenue, and disrupt the agency banking strategy of the banks. While this may not materialise now, it remains a key concern in the mid to long term
- Cyber security risks: According to NIBSS, Web channels accounts for 47% of total fraudulent activities. In terms of fraud techniques, Social engineering accounts for 56%, while two factor authentication system is also another challenge. The increase in fraudulent activities hinders the growth of digital banking products. The CBN would need to invest in infrastructure to protect the firewalls of fraudsters from accessing customers' financial information. Also, a high level of sensitisation and digital literacy is required to prevent social engineering.

# Research Analyst(s) Babatunde Ogunleye

Babatunde.Ogunleye@stanbicibtc.com +234 1 422 8667

#### Muyiwa On

Muyiwa.Oni@stanbicibtc.com +234 1 422 8667

www.standardbank.com/research

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# Understanding e-Naira

Figure 1: Understanding e-Naira

#### What is a digital currency?

A digital currency, is any currency, money, or money-like asset that is primarily managed, stored or exchanged on digital computer systems, especially over the internet. Types of digital currencies include cryptocurrency, virtual currency and central bank digital currency.

#### Central Bank Digital Currency (CBDC)- e-Naira

A Central Bank Digital Currency (CBDC) uses an electronic record or digital token to represent the virtual form of a flat currency of a particular nation. e-Naira, in this instance, is a digital form of Naira issued by the CBN, it is a legal tender and forms part of currency in circulation and will also be at par with the physical Naira.



#### How does the CBDC differ from Cryptocurrency?

CBDC is issued by a monetary authority (central banks) and its use is limited by a set of rules, as opposed to cryptocurrency, In addition, the coin's value is stable and reflects the value of the physical currency.

#### What do we expect to see?

- Cross Border Transfers: Aside from domestic usage of the currency, it will also enable cross border payments.
- Fund Transfers: Because the transfers will be peer-to-peer on a blockchain, similar to an intrabank transfer, we expect it to be faster, cheaper, and more stable.

Source: CBN, SBG Securities

The recent unveiling of e-Naira by the Central Bank could be viewed as a response to decentralised blockchain systems which it had once thought, posed systemic risks to monetary policy and financial stability. Its plan is to use this mechanism to improve monetary policy, enhance government capacity to deploy targeted social intervention, and boost remittances through formal channels. There are five types of e-Naira Wallets:

- Stock Wallet- Owned and managed by the CBN
- Treasury Wallet- managed by the financial institution.
- Branch Wallet- financial institutions are permitted to create a branch wallet across their bank branches.
- Merchant Wallet- meant to facilitate the payment for goods and services.
- Consumer wallet- created for the end-users to transact on the e-Naira platform.

While the fundamental mechanism responsible for the cryptocurrency's growth and fall may be confounding, the regulatory approach is aimed at mitigating the possibility of users losing money and likely disruption in the financial system. Central banks across the globe are developing their digital currencies to keep control over digital transactions while reducing the volume of cash in circulation. So far, the central banks of the Bahamas (Sand Dollar), China (e-Yuan), Sweden (e-Krona), and Cambodia (Bakong) have all introduced their digital currencies as legal tender.



Figure 2: e-Naira participants and roles

Product Components					Stakeholders	Features	
Monetary Authority Suite	Digital Monetary Intrastructure	Digital currency Operations manager	Minting Solution	Monitoring & AML Compilence	eNaira Vault	Central Bank	Issue, distribute, redeem and destroy digital currency.     Maintain controls and security in minting function.     Store data on a secure cloud server.     Monitor and analyse currency transaction.
Financial Institution Suite	Digital currency operations Manager	Core Stanking integration	Reporting Monitoring	AML Compliance Module	eNaire Vault	Licensed financial institution	Request currency or issue stable coins     Manage digital currency across branches     KYC, identity & AML compliance capability
eGovernment Suite	E-Government Digital Currency Manager	Digital currency integrations	Reporting Monitoring	Merchant Suite	eName Vauft	Government	Efficiently process digital payments sent to and received from citizens and businesses.     Analyze transactions and reconcile accounts
Businesses And Merchant Suite	Digital Currency Manager for enterprise	Merchant POS App	Reporting Monitoring	E-commerce Plugin	eNaira Vault	Merchants	Low-cost solution to menage payments     POS, remote pay, and online payments capability     Analyze transactions and reconcile accounts
Retail Customer Suite	Mobile SDK	Custodial Motine Wellet	Non-custodial Mobile Wallet	Custodial Web Water	eNara Vault	Customer	Customer centric design for good user experiences     Expandable architecture to facilitate innovation     Advanced privacy and security features

Source: CBN, SBG Securities analysis

A financial institution can only maintain one treasury e-Naira to warehouse e-Naira received from the CBN e-Naira stock wallet. They may create e-Naira sub-treasury wallets for branches tied to it and fund from its single e-Naira treasury wallet. The financial institutions are also responsible for facilitating e-Naira onboarding for bank customers (merchants & customers), Integrating the e-Naira wallet feature into their digital banking channels, requesting e-Naira from CBN on behalf of its customers, managing e-naira across their branches, developing KYC and AML framework and handling customers complaint.

The e-Naira speed wallet and e-Naira merchant wallet were launched on Google Play and Apple Stores for consumers and merchants, respectively. The current version of the e-Naira can only be accessed by people with bank account. However, it was recently announced that a phone application for those who do not have a bank account would be available soon.

# **Tiered Structure**

The e-Naira account has some distinct tiered structures. Depending on the tier group the user belongs to, the daily transaction ranges between N20,000 and N1 million. Subject to the tier category, the account's cumulative balance limit at any given moment ranges from N120,000 to N5,000,000. The daily transaction limit for merchants is N1 million, and there is no restriction on the total balance that must be in the account.



Figure 3: Tiered Structure

Tier	Туре	Characteristics	Minimum requirement	Existing as per MMO
Tier 0	No Existing Bank account	Daily Transaction limit: Send: N20,000 Receive: N20,000 Curnulative Balance Daily: N120,000	Telephone number (without verified NIN)	
Tier 1	No Existing Bank account	Daily Transaction limit: Send: N50,000 Receive: N50,000 Cumulative Balance Daily: N300,000	Telephone Number (to be validated as NIN attached)	Passport photograph     Name, place & date of birth, gender, address; telephone no.
Tier 2	Has an existing Bank account	Daily Transaction limit: Send: N200,000 Receive: N200,000 Currulative Balance Daily: N500,000	BVN	Must provide BVN T1 requirements plus evidence of ID
Tier 3	Has an existing Bank account	Daily Transaction limit: Send: N1,000,000 Receive: N1,000,000 Cumulative Balance Daily: N5,000,000	BVN	TII requirements plus physical verification. Full KYC stipulated in CBN AML/CFT
	Merchant	Daily Transaction limit: Send: N1,000,000 Receive: N1,000,000 Curnulative Balance Daily: No limit. No limit to the amount they can sweep to their bank accounts.	TIN/ BVN, Full KYC as stipulated in CBN AML/CFT	

Source: CBN, SBG Securities analysis

Regarding the pricing structure, the previous guideline specified that e-Naira peer-to-peer transfers would be free. According to the CBN's most recent guidance, the costs for e-Naira transactions will be in line with the 2019 regulation on charges by banks, other financial institutions, and non-financial entities.

deline on	Bank	Charges
	deline on	deline on Bank

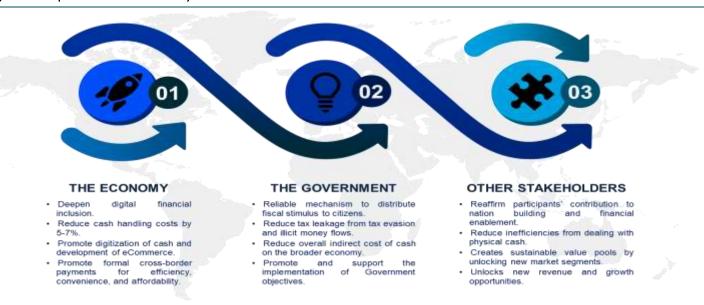
Description	New Guidelines
Electronic Fund Transfer	<ul> <li>Below N5,000 - N10;</li> <li>N5001 -N50,000-N25;</li> <li>Above N50,000- N50.</li> </ul>
Card Maintenance	<ul> <li>FCY denominated cards- reduced to \$10</li> <li>Naira Debit/ Credit Cards:</li> <li>Current accounts- No charge.</li> <li>Savings accounts -N50 per quarter as against N50 per month.</li> </ul>
ATM Transactions	Remote-On-Us (from other bank's ATM) charges - N35 after third withdrawal within a month.
Internet Banking	<ul> <li>Hardware token- on cost recovery basis, maximum of N2,500.</li> <li>Bill payment- maximum charge of N500</li> </ul>
SMS alert	Cost recovery basis

Source: CBN



## Benefits of the e-Naira

Figure 5: Proposed Benefit of the e-Naira by CBN



Source: CBN, SBG Securities analysis

From our perspective, the e-Naira would help in lowering the cost of printing paper currency. Between 2014 and 2019, the regulator spent a total of N307 billion on printing banknotes, according to reports. Other advantages include the ability to replace cash for low-value payments and to power the government's transfer payments initiative.

## We think the e-Naira could benefit financial institutions in the following ways:

**Collections -** Merchants are required to accept e-Naira as one of the payment options available. There is a potential for banks to become merchants' primary collection bank. This would also help them increase their float income.

**Facilitation of Cross-Border Payments and Remittances -** Banks might also use the CBN FX API to enhance seamless cross-border payments and remittances with the e-Naira. It could be used for cross-border remittance and we can generate revenue via charges. With the implementation of African Continental Free Trade Area (AfCFTA), we anticipate an increase in float income for banks.

**Removal of a merchant service charge -** Asset management and insurance companies may now be able to accept online payments in e-Naira without incurring the usual merchant service charge.

# **Key Concerns**

## Low smartphone penetration rate

The part we are not clear about is how this will drive financial inclusion. The CBN intends to achieve a target of 95% financial inclusion by 2024. According to the EfinA 2020 survey, 64% of Nigeria's adult population of 105.5 million has access to some form of financial services, which is low when compared to South Africa, Rwanda and Kenya. Those with bank accounts can currently use the e-Naira app, and bank accounts are usually linked to BVN. According to NIIBSS, only about 50.7 million persons had been onboarded on the BVN platform as of October 31, 2021.

Although, it was further stated that the application for the unbanked segment would be released soon. We hope that unbanked app users would not need to download an app similar to what is now available to transact on the e-Naira platform because the USSD



version is currently unavailable. We anticipate that the next version for the unbanked will include USSD functionality, allowing for seamless access.

Figure 6: Low Financial Inclusion Rate (%)



Source: EfinA, World Bank, SBG Securities analysis

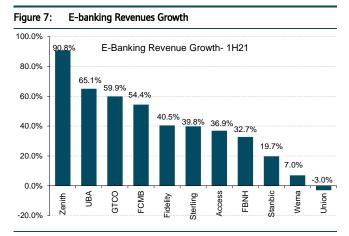
According to Data Portal, over 50% of Nigerians have access to the internet, and around 90% have access to mobile phones. The percentage of people who own smartphones ranges between 23–25%, according to Statista.

Given low smartphone penetration, high data charges, and limited internet access, we hope the e-Naira does not end up being a "white elephant" initiative. The CBN also indicated that e-Naira transaction fees will be in line with the current fees template on e-banking transactions. This also raises questions about what the primary driver of financial inclusion would be.

## Financial Disintermediation Risk

According to the CBN, "the conversion of bank deposits to e-Naira could have an impact on banks in terms of deposit liabilities and availability of funds for bank lending, fall in liquidity and challenges in liquidity management, and fall in credit assets and shrinking balance sheet. It further stated that banks can effectively respond by shifting from retail funding to more wholesale funding sources; Nevertheless, this could have an impact on their overall cost of funds, high interest rates on credit assets, a negative impact on profitability, and disruption of existing retail-focused strategies." CBN noted that it is aware of the risk and has limited the use of the e-Naira payment system to micro transactions.



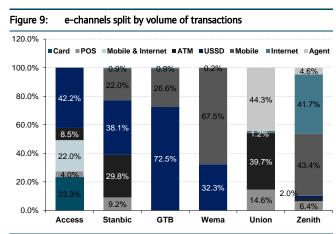


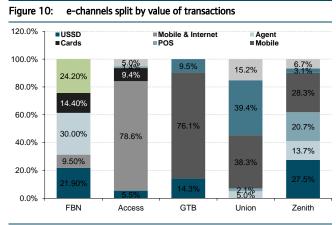


Source: Company Data, SBG Securities

Source: Company Data, SBG Securities

We think that perhaps in the future when transactions and liabilities move to the CBDC, it could impact banks revenue streams, including float income, transaction revenue, net interest income, depending on the level of adoption and the CBN's eventual position on charges on the e-Naira. It could further disrupt the agency banking strategy of the banks. While this may not materialise now, it remains a key concern in the mid to long term.





Source: Company Data, SBG Securities

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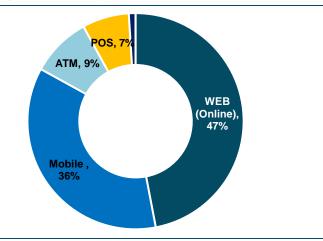
## Cyber risk remains a challenge

According to NIBSS, the number of fraudulent attempts in digital banking in 9M'20 y/y by 186% was driven by increased attempts via mobile (330% y/y), Online (173% y/y), and POS (215% y/y). Web channels accounts for 47% of total fraudulent activities. In terms of fraud techniques, Social engineering accounts for 56% while two factor authentication system is also another challenge.

The increase in fraudulent activities hinders the growth of digital banking products. The CBN would need to invest in infrastructure to protect the firewalls of fraudsters from accessing customers' financial information. Also, a high level of sensitisation and digital literacy is required to prevent social engineering.

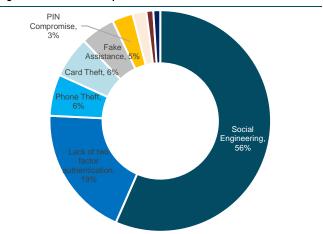






Source: NIBSS, SBG Securities

# Figure 12: Fraud Techniques



Source: NIBSS, SBG Securities

## Future outlook

To make the e-Naira's potential more adaptable, we hope that the CBN would make its APIs available to telecoms, fintechs, banks, and other financial services providers, to allow for more relevant and innovative products to be built



Companies Mentioned (Price as of 2021/11/04)

Access Bank Plc (ACCESS.LG, N9.25, SBUY, TP N11.83)

Ecobank Transnational INC (ETI.LG, N8.30, Spec BUY, TP N7.70)

FBN Holdings Plc (FBNH.LG, N10.75, HOLD, TP N13.98)

Fidelity Bank Plc (FIDELIT.LG, N2.70, SBUY, TP N3.18)

First City Monument Bank Plc (FCMB.LG, N3.05, SELL, TP N2.45)

Guaranty Trust Holding Company (GUARANT.LG, N29.00, BUY, TP N39.00)

MTN Nigeria Plc (MTN.LG, N, Not Covered)

Stanbic Holdings Ltd (CFC.NR, KSh87.00, RESTRICTED)

United Bank for Africa Plc (UBA) (UBA.LG, N8.10, BUY, TP N12.00)

Zenith Bank Plc (ZENITHB.LG, N24.50, BUY, TP N32.00)

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Fidelity Bank Plc	D
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## **SBG Securities Coverage and Contacts**

Heads of Equity Research		Sector Heads		Macro	
Marc Ter Mors (Head of Equity Research)	(27 11) 415 4265	Tim Clark (Metals and Mining)	(27 11) 415 4295	Elna Moolman (SA Economics, Team Head)	(27 11) 415 4543
Muyiwa Oni (West Africa)	(234 1) 422 8667	Rey Wium (Consumer)	(27 11) 415 4250	Jibran Qureishi (Africa ex-SA, Team Head)	(254 20) 363 8138
		Marc Ter Mors (Industrials)	(27 11) 415 4265	Kuria Kamau (East Africa)	(254 20) 363 8931
		Nadim Mohamed (TMT)	(27 11) 415 4253	Blessing Oladipo (West Africa)	(234 1) 422 7576

Strategy

Deanne Gordon (Head SA Strategy) (27 21) 712 0875 Adele Fermoyle (SA Strategy) (27 11) 415 4429

## **Sector and Company Research**

South Africa		South Africa (continued)		Sub Saharan Africa (Ex-South Africa)	
Financials		Metals and Mining		Financials	
Mweisho Nene (Real Estate)	(27 11) 415 4655	Tim Clark (Metals & Mining, Team Head)	(27 11) 415 4295	Muyiwa Oni (West Africa)	(234 1) 422 8667
	Mweisho.Nene@sbgsecurities.com	Tim.	Clark@sbgsecurities.com	ı	Muyiwa.Oni@stanbicibtc.com
Pranita Daya (Real Estate)	(27 11) 415 4622	Adrian Hammond (Gold, Platinum)	(27 21) 670 6417	Tunde Ogunleye (West Africa)	(234 1) 422 8667
	Pranita. Daya@sbgsecurities.com	Adrian.Hamr	nond@sbgsecurities.com	Ва	batunde.Ogunleye@stanbicibtc.com
Itumeleng Molefe (Life Insuranc	e) (27 11) 415 4260	Thabang Thlaku (Diversified Miners, Steel)	(27 11) 415 4015	Patrick Mumu (East Africa)	(254 700) 296 454
I	tumeleng.Molefe@sbgsecurities.com	Thabang.Tl	hlaku@sbgsecurities.com		MumuP@stanbic.com
Retail		Consumer		Consumer	
Kaeleen Brown	(27 83) 302 6269	Rey Wium (Lux/Bev/Tob, Team Head)	(27 11) 415 4250	Fola Abimbola (West Africa)	(234 1) 422 8667
	Kaeleen.Brown@sbgsecurities.com	Rey.\	Wium@sbgsecurities.com		Fola. Abimbola@stanbicibtc.com
Ya'eesh Patel	(27 11) 415 4261	Sumil Seeraj (Food)	(27 11) 415 4256	Olayinka Adesanya (West Africa)	(234 1) 422 7374
	Yaeesh.Patel@sbgsecurities.com	Sumil.S	eeraj@sbgsecurities.com	(	Dlayinka. Adesanya@stanbicibtc.com
Construction and Materials		Chemicals		тмт	
Marc Ter Mors	(27 11) 415 4265	Adrian Hammond	(27 21) 670 6417	Tracy Kivunyu (East Africa)	(254 700) 385 540
	Marc.Termors@sbgsecurities.com	Adrian.Hamr	mond@sbgsecurities.com		KivunyuT@stanbic.com
Diversified Industrials		Forestry & Paper		Infrastructure and Materials	
Marc Ter Mors	(27 11) 415 4265	Tim Clark	(27 11) 415 4295	Ayodeji Dawodu (West Africa)	(234 1) 422 8667
	Marc.Termors@sbgsecurities.com	Tim.	Clark@sbgsecurities.com		Ayodeji.Dawodu@stanbicibtc.com
тмт		Corporate Commissioned Research			
Nadim Mohamed (Team Head)	(27 11) 415 4253	Nic Dinham	(27 82) 374 0983		
	Nadim.Mohamed@sbgsecurities.com	Nic.Dir	nham@sbgsecurities.com	l	

Hugan Chetty (27 83) 647 3347

Hugan.Chetty@sbgsecurities.com

## **Equity Sales**

South Africa	Sub Saharan Africa (Ex-South A	Africa) North America	
Nick Higham	(27 11) 415 7018 Dele Akintola (West Africa)	(234 1) 422 8335 Luca Del Conte	(1 917) 946 5716
Graham York	(27.21) 670 6423. Gregory Waweru (Fast Africa)	(254 20) 363 8948	

United Kingdom, Europe

Francis Harcus (44 744) 705 7250

## **Sales Trading**

South Africa	West Afric	ca	East Africa	
Selvan Kistnasamy (Head Equities)	(27 11) 415 7013 Titi Ogungb	esan (CE) (234 1) 422 8391	Gregory Waweru (Head Equities)	(254 20) 363 8948
Tom Gale	(27 11) 415 7023 Deji Aluko (	Head Sales Trading) (234 1) 422 8355	Eric Ogechi	(254 20) 363 8961
Kagiso Matlala	(27 11) 415 7021 Bunmi Olari	noye (Head Dealing) (234 1) 422 8392	Augustine Misoka	(254 20) 363 8960
Tokelo Khambule	(27 11) 415 7814		Elie Mugabe (Rwanda)	(250 784) 108 841
Alexander Ferrer	(27 11) 415 7024		Nicholas Kimuli (Uganda)	(256 031) 222 4972

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