

THE STATE OF INCLUSIVE **INSTANT PAYMENT SYSTEMS IN AFRICA**

SIIPS 2024 • Short Report









WORLD BANK GROUP

Acknowledgments

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About this report

This is the third annual State of Inclusive Instant Payment Systems (SIIPS) in Africa report. It aims to inform public-sector and private-sector players in Africa and beyond about the developments in the instant retail payment system (IPS) ecosystem on the continent and how inclusive they are in their functionality and governance.

It draws on data gathered from central banks and IPS operators in Africa, as well as insights from extensive stakeholder interviews, detailed case studies, and primary consumer research from five countries. SIIPS 2024 was made possible through the partnership involving AfricaNenda, the World Bank Group, and the United Nations Economic Commission for Africa (UNECA), with the generous support of the Bill & Melinda Gates Foundation.

The research for this report includes only systems with live transactions and functionality as of June 1, 2024.

The full SIIPS report is available at www.africanenda.org/siips2024

Contents

CHAPTER 1

Why inclusive instant payment systems matter in Africa

04

09

Reaching all Africans with digital payments05 Digital Public Infrastructure: The next frontier of inclusivity in payments07

CHAPTER 2

The landscape of instant payment systems in Africa in 2024

PS in development1	11
PS types1	12
cross-domain IPS are becoming	
nore prominent1	13
ransaction volumes and values1	14
Ownership and governance1	15
Jse cases1	16
Channels1	17
nstruments1	18
nclusivity1	19

CHAPTER 3²⁰

End-user adoption of digital payments in Africa

Gender, income frequency, and age
affect usage21
MSMEs embrace digital payments for customer
payments, and to pay staff and suppliers23

3

27

Convenience, low cost, trust, speed,
and reliability encourage habitual use24
Barriers to inclusivity26

CHAPTER 4

Spotlight on the need for innovation-friendly regulation

Enabling IPS inclusivity through	
innovation-friendly regulation	28
Expanding the reach of IPS through	
risk-proportionate fintech licensing	29
Enabling inclusive onboarding with eKYC	30
All IPS countries allow some eKYC,	
but gaps remain	31
Expanding access to instant payment	
systems with eKYC	32

CHAPTER 5

33

Opportunities and trends to drive scale and inclusivity

Market level trends	34
Scheme trends	35
Consumer trends	36

CHAPTER 6

The next steps for IIPS	
Takeaways from SIIPS 2024	38
The road to inclusivity	39
ist of central banks or IPS operators	
hat completed the SIIPS 2024 IPS survey	40



Why inclusive instant payment systems matter for Africa



Reaching all Africans with digital payments

One of the most powerful motivators of account ownership is the ability to receive digital payments— 39% of adults in developing economies opened their first account to do so (World Bank, <u>2021</u>).

Yet the ability to promote convenient and affordable payments and drive financial inclusion is limited because half of the countries in Africa do not have a national scale instant payment system (IPS).



Source: World Bank (2021). Global Findex Database.

This inclusion gap is one of the reasons why only 16% of individuals in sub-Saharan Africa made a digital merchant payment and only 11% paid a utility bill using a mobile phone as of 2021 (World Bank, <u>2021</u>). More needs to be done to deliver inclusive digital payment services.



What are inclusive instant payment systems (IIPS)?

Instant payment systems (IPS) are retail payment systems that are **open loop** and that enable **irrevocable**, **low-value**, digital credit push transactions in **near real time** for use **24 hours** a day, **365 days** a year, unless there is planned maintenance or system downtime. IPS and Fast Payment Systems (FPS) are synonyms*.

Inclusive instant payment systems (IIPS) process payments **digitally in near real-time** and are available for use **24 hours** a day, **365 days** a year, or as close to that as possible. They enable low-value, low-cost push transactions that are **irrevocable** and based on **open-loop and multilateral interoperability arrangements**. Licensed payment providers have fair access to the system, and system participants have equal input opportunities into the system. The **central bank** has the ability to shape the **governance****. End users have access to **a full range of use cases and channels**, as well as transparent and fit-for-purpose **recourse** mechanisms.

- * The definitions used in this report are in principle aligned with the definition of the 2016 Fast Payments report by Committee on Payments and Market Infrastructures: "... fast payments can be defined as payments in which the transmission of the payment message and the availability of final funds to the payee occur in real time or near-real time and on as near to a 24-hour and 7-day (24/7) basis as possible". The SIIPS IPS definition seeks to emphasize a few specific aspects that are relevant from a financial inclusion context in several low-income countries notably, mobile money accounts and push payments. Given this, even solutions that enable users of different mobile money providers to make and receive transfers in real time are considered under this definition, though the limitations of such arrangements are recognized in the different categorizations of IIPS. FPS could also include pull transactions.
- ** The central bank has the requisite regulatory powers and implements effective oversight arrangements on an ongoing basis to determine and take corrective action to ensure that governance arrangements are appropriate and support achievement of public policy objectives. In some country contexts, central bank might have to exercise ownership control and/or be directly represented in the board (for e.g. by nominating its serving staff or nominating an external member) to fully achieve desired governance arrangements.

Digital Public Infrastructure: The next frontier of inclusivity in payments

One of the primary ways to expand inclusive digital payments is by building and expanding the payments layer of digital public infrastructure, thereby ensuring that every country has access to an IIPS capable of delivering at societal scale.

IPS domiciled in Africa have the potential to provide the payment layer of digital public infrastructure (DPI).

What is Digital Public Infrastructure?

Digital public infrastructure (DPI) is "a set of shared digital systems that are secure and interoperable, built on open technologies, to deliver equitable access to public and/or private services at a societal scale." The elements of DPI include identification, private and safe data sharing, and payments (G20, <u>2023</u>).

The Global Partnership for Financial Inclusion (GPFI) clarifies, "... 'system' should be interpreted broadly to include protocols, frameworks, and governance arrangements that market players rely on and use to provide products and services to their customers. Conceptually, DPIs could be seen as a core set of foundational systems that enable intensive use and provision of digital services across a range of economic and social interactions and actors" (GPFI, 2023).



Despite the growth in the number of IPS over the past decade, however, they are not yet well integrated with existing DPI efforts. This is because most nascent DPI initiatives initially focus on ID systems. Moving forward,

it will be vital to ensure that DPI projects build on ongoing IPS efforts in the move towards more inclusive payment services.

Figure 1.1 | DPI and financial services



Source: Authors' elaboration (G20 Policy recommendation for Advancing Financial Inclusion and Productivity Gains Through Digital Public Infrastructure).





The landscape of instant payment systems in Africa in 2024

Map 2.1 | Active domestic IPS in Africa as of June 1, 2024





GIMACPAY

CEMAC countries: Cameroon, Central African Republic,

TRANSACTIONS CLEARED ON AN IMMEDIATE **BASIS (TCIB)**

SADC countries: Angola, Botswana, Comoros, Congo Dem. Rep.,

PAN-AFRICAN PAYMENT AND SETTLEMENT SYSTEM (PAPSS)

WAMZ pilot countries: The Gambia, Ghana, Guinea, Liberia,

IPS in development

Though there are still gaps in IPS coverage as of July 2024, 25 countries across the continent are in the process of upgrading their IPS or developing a new system. Twentyone of these countries are developing new domestic systems and four countries that had domestic systems in place are either upgrading them or launching new ones.

Two of the countries adding domestic capabilities are Benin and Togo. They are also part of the West African Economic and Monetary Union (WAEMU), which is developing a regional IPS. In addition to cross-border



Burundi; Comoros; Congo, Dem. Rep.; Djibouti; Egypt; Eswatini; Eritrea; Ethiopia; Kenya; Libya; Madagascar; Malawi; Mauritius; Rwanda; Seychelles; Somalia; Sudan; Tanzania*; Tunisia; Uganda; Zambia; Zimbabwe.



WAEMU plus Cabo Verde; The Gambia; Ghana; Guinea; Liberia; Nigeria; Sierra Leone.

functionality, the WAEMU system will include domestic countries-Benin, Burkina Faso, Côte d'Ivoire, Guinea-Bissau, Mali, Niger, Senegal, and Togo. It is currently in the piloting stage.

If all these planned domestic and regional IPS projects come to fruition, 27 additional countries which currently do not have a live IPS will gain one, leaving Eritrea as the only country on the continent without domestic IPS



EAC

Burundi; Congo, Dem. Rep.; Kenya; Rwanda; Somalia; South Sudan; Tanzania; Uganda.



Benin; Burkina Faso; Côte d'Ivoire; Guinea-Bissau; Mali; Niger; Senegal; Togo.

IPS types

IPS type definitions

Cross-domain IPS

A system that provides for all-to-all interoperability within one overarching system, providing switching, clearing, and exchange of instruments for and between banks and non-banks and their respective account types and regulated currency instruments. All-to-all interoperability includes the ability for end users to directly transact between wallet accounts at different MMOs, between mobile money accounts and bank accounts, and across bank accounts. The single system provides the governance framework and coordinates the operational functions end-to-end for the instruments.



Bank IPS

A system that provides access only to banks and supports instruments associated with bank accounts.

Mobile money IPS



A system that provides access only for mobile money providers and supports instruments associated with mobile money accounts. This type of system has some form of common scheme rules and standards that form the basis for clearing and settlement of transactions between customers of the participating MMOs. They may be based either on a centralized infrastructure or based on some form of bilateral and multilateral arrangements between participating MMOs.



Sovereign currency IPS

A central bank digital currency IPS. Such an IPS combines a sovereign currency instrument and a value transfer system that can provide a unified digital value transfer mechanism between commercial instrument systems, institutional stakeholders, and individuals within an economy.





Cross-domain IPS are becoming more prominent

Mobile money systems were the most common IPS type as of 2018. Since then, cross-domain systems have gained in popularity and now represent about half of the total IPS.

Cross-domain systems provide interoperable payment processing and clearing between different payment

Figure 2.1 | Number of IPS by type over time (n=31)



system providers. Interoperability is an essential element of inclusivity and a core criterion of DPI, as it creates a level playing field between different payment providers and between incumbents and new market players. It also brings greater potential for scale and reach.

Transaction volumes and values

IPS transaction values have increased by 39% annually since 2019.

Over the past five years, the volumes and values of processed transactions increased by an average annual growth rate of 37% and 39%, respectively.

In 2023, IPS processed 49 billion transactions, the highest annual volume yet, 47% more than in 2022. Such growth reflects more entrenched IPS usage in many countries.

The total annual IPS value has reached over US \$1 trillion. Between 2020 and 2023, IPS transaction values increased by 273%.

Mobile money IPS process by far the largest volume of transactions with 38% of total transaction in 2023, while cross-domain IPS process the largest values with US \$481 billion in 2023.



* No data was received for SIIPS 2024 from LeSwitch (Lesotho – new system); MarocPay (Morocco); Virement Instantané (Morocco); SIMO (Mozambique); eNaira (Nigeria); Nigeria mobile money; PAPSS (continent-wide); TCIB (SADC).



* No data was received for SIIPS 2024 from LeSwitch (Lesotho – new system); MarocPay (Morocco); Virement Instantané (Morocco); SIMO (Mozambique); eNaira (Nigeria); Nigeria mobile money: PAPSS (continent-wide); TCIB (SADC).

Note: The total transaction volumes and values may be underestimated. The data in Figure 2.2 came from written survey inputs by central banks and/or IPS operators. Overall, 23 surveys were returned. The data for eight IPS were unavailable. LeSwitch (Lesotho) was only officially launched in 2024. TCIB (SADC) did not provide volumes and values in its survey response. Central banks/IPS operators of six additional IPS did not submit survey, resulting in missing values for the following systems: MarocPay (Morocco), Virement Instantané (Morocco) (both Bank Al-Maghrib), SIMO (Mozambique) (Bank of Mozambique), Nigeria mobile money, eNaira (Nigeria) (both Central Bank of Nigeria), and PAPSS (Afreximbank). Information about these systems relied on desktop research. As the eNaira is the only sovereign currency IPS and the data is missing, this category was excluded from the analysis.

Ownership and governance

Thirteen IPS are governed by public-private-partnerships.

IPS are either owned by participants, regulators, or a combination of both. There is an even distribution of ownership structures among IPS in Africa:

Thirteen systems are governed by public-private partnerships (PPP). Ten IPS are governed by private

Regulator-owned (1	1)		Jointly owned ((10)	Participant-ov
 KWiK (Angola) IPN (Egypt) Meeza Digital (Egypt) Ghana MMI GIP (Ghana) LeSwitch (Lesotho) MauCAS (Mauritius) MarocPay (Morocco) eNaira (Nigeria) TCIB (SADC) TIPS (Tanzania) 	CB CB CB CB PPP CB PPP CB PPP CB	 GIM Eth: Gar Gar Vire (Mo SIM NIP NIP NIP NIP NIP NIP ZIPI 	IACPAY (CEMAC Switch (Ethiopia mswitch (The mbia) orocco) O (Mozambique (Nigeria) eria mobile mor PSS (WAMZ) S (Zambia) IT (Zimbabwe)	C) PPP A) PPP PPP é PPP PPP PPP PPP PPP PP	 Kenya mobile m PesaLink (Kenya Madagascar momoney Natswitch (Mala eKash (Rwanda) PayShap (South RTC (South Afric Taifa Moja (Tanza Tunisia mobile m Uganda mobile
Cross-doma CB: Central ba	ain IPS ank governed	Bank IPS	Mobile n	noney IPS partnership	• Sovereign currency IPS • Private association

Governance and Inclusivity

Collaborative governance between the public and private sector is crucial for inclusivity:

- charge higher fees to recoup investments.
- An IPS solely owned and governed by the central bank, on the other hand, may struggle to get buy-in from PSPs.

A collaborative governance approach ensures that central bank inclusivity goals are reflected in IPS design, while the industry gets a direct line to provide feedback on necessary policy and regulatory reforms. Collaborative governance can be achieved through direct ownership and voting rights, or indirectly via committees or working groups.

associations, and eight IPS are governed solely by the central bank. Notably, the cross-domain systems, which allow different types of participants, are more often governed by the central bank or a PPP.



O Systems owned solely by large banks may be less accommodating to smaller banks or non-bank PSPs and may

Use cases

All IPS enable P2P payments. P2B and P2G are on the rise, while G2P remains untapped.

Inclusivity implications of enabling more use cases:

P2P and P2B use cases offer the most immediate utility for end users. However, enablement of further use cases, such as digital wages and government payments, have been shown to drive financial account and payment adoption due to the regularity of digital income receipts.



Figure 2.3 | Enabled use cases by IPS type, multiple mentions (n=31)



* B2P: IPN and Meeza Digital (Egypt), Gamswitch (the Gambia), MMI and GIP (Ghana), Kenya mobile money and PesaLink (Kenya), Madagascar mobile money, MauCAS (Mauritius), Virement Instantané (Morocco), eNaira and NIP (Nigeria), RTC (South Africa), Taifa Moja and TIPS (Tanzania), Uganda mobile money, NFS (Zambia), ZIPIT (Zimbabwe), PAPSS (WAMZ)

** G2P: MMI and GIP (Ghana), Madagascar mobile money, MarocPay (Morocco), NIP (Nigeria), Uganda mobile money,

e Cross-domain IPS	Bank IPS Mobile money IPS		Sovereign currency IPS
P2P: Person-to-person	P2B: Pers	on-to-business	B2B: Business-to-business
B2P: Business-to-person	P2G: Pers	son-to-government	G2P: Government-to-person

Channels

Apps and other self-initiated channels are the most prevalent, but USSD and human-assisted channels remain important for inclusion.



Human-assisted channels, via agents in mobile money kiosks or bank branches, are supported by 21 and 20 IPS respectively. These play a critical role for end users who need human support.

Other self-initiated channels, such as browser or unstructured supplementary service data (USSD), are the second-most prevalent, supported by 24 and 23 systems, respectively.

Figure 2.4 | Supported payment channels by IPS type, multiple mentions (n=31)



Overall

The trend toward smartphone technologies can offer a more personalized user experience, but for the African users who still only have basic or feature phones, human assisted channels and USSD remain important.



Quick response (QR) codes and near-field-communication (NFC)

acceptance are on the rise: 17 systems support QR codes, compared to 11 in 2023. IPS supporting NFC-enabled payments have increased from 2 to 7 in the same period.

Mobile phone applications, or apps, are the most widely available channel on the continent, supported by 30 IPS.

Instruments

E-money and credit EFT are the most common instruments.

- E-money instruments are supported by 20 IPS. \cap
- Credit EFT is supported by 18 IPS.
- Debit EFT is supported by 12 IPS and debit Ó cards by 10 IPS.
- Cross-domain systems offer the largest variety of instruments.
- Bank IPS focus mainly on credit EFT with debit EFT as a secondary instrument.

Figure 2.5 | IPS instruments supported, multiple mentions (n=31)



* CBDC is a separate instrument that is used by the eNaira in Nigeria.



Inclusivity

More IPS are progressing towards inclusivity.

Comparison to 2023 Inclusivity Spectrum:

- Four systems (MauCAS, NIP, TIPS, and ZIPIT) have moved up to the progressed level, bringing the total number of progressed systems to nine, covering 13 countries.
- Out of the progressed systems, NIP in Nigeria \cap is closest to reaching mature inclusivity, as it has integrated all use cases and only lacks additional recourse channels for end users.

Figure 2.6 | Mapping IPS across the Inclusivity Spectrum



O Six of the basic systems are heading towards the progressed level, as they already fulfill two out of three progressed level criteria.

Three systems have moved to the basic level from not ranked (EthSwitch, Kenya mobile money, and Nigeria mobile money).

The number of **not ranked systems** have decreased from 12 to 10. They are usually not ranked because they do not enable P2B payments.



End-user adoption of digital payments in Africa

Many consumers now make digital payments at least once a week. Gender, income frequency, and age affect usage.

 \bigcirc

Surveys and one-on-one qualitative conversations in five countries find that most digital payment users in the sample tend to make a digital transaction at least once a week.¹ More specifically:

• Algeria is the only surveyed country where almost half of the sample use digital payments less frequently than once a week.

MSME respondents use digital payments more frequently than individuals in all countries except Uganda.

Table 3.1 | Country specific user group analysis

	All respondents		Individual r	espondents	MSME respondents		
	MSME vs. individuals	Age	Gender	Frequency of income	Gender	Size of business	
Algeria		Younger use more	No significant	No significant variance	Men use more	No significant variance	
Ethiopia	MSMEs	No significant variance	variance	Frequent use more	No significant variance	Larger use more	
Guinea	use more	Older use more	Women use more	Frequent use more	Men use more		
Mauritius		Younger use more	No significant variance	Infrequent use more	No significant	No significant variance	
Uganda	No significant variance	Younger use more	Men use more	Frequent use more	variance		
Legend for color gradient: <i>Gap in percentage points (pp) between two user groups in terms of the proportion of users that use digital payments as least</i>				5 -9 pp	• 10-15 pp	Larger than 15 pp	

once a week. * Younger means respondents that are 18-29 years old.

This section draws on consumer research conducted in February and March 2024 in Algeria, Ethiopia, Guinea, Mauritius, and Uganda, with a non-representative quantitative sample size of 100 respondents per country and qualitative sample of 20 respondents per country

• Female respondents report that low literacy levels, low incomes, and lack of financial independence discourage them from using digital payments.

Respondents younger than 30 use digital payments most frequently.

Respondents with infrequent income sources use digital payments less than those with regular incomes.



Savings and airtime are the most digitalized use cases. Digital payments for household goods lags.

In Guinea and Uganda, more than 70% of individual respondents used digital payments in the month prior to the survey for their three most frequent use cases.

Savings is a common and highly or moderately digitalized use case for individuals in all countries except Ethiopia.

Airtime, receiving funds, and sending money to family and friends are the next most digitalized use cases.



Receiving **income** digitally is a driver for uptake of digital payments.

Digital payments for P2B payments such as **transport** and **household goods** is lagging compared to other payment use cases.

Table 3.2 | The top payment use cases and their level of digitalization among individual respondents

#		Algeria	Ethiopia Guinea		Mauritius	Uganda
Most frequent individual use cases ranked	1	Pay for household goods	Airtime	Airtime	Bus fare or fuel	Airtime
	2	Receive wage	Pay for household goods	Pay for household goods	Airtime	Save money
	3	Save money	Bus fare or fuel	Save money	Pay for household goods	Receive money from family and friends
	4	Airtime	Receive wage	Send money to family and friends	Receive wage	Bus fare or fuel
	5	Send money to family and friends	Send money to family and friends	Receive wage	Save money	Pay for household goods
Use cases for w of respondents transaction ove	hich l condi	ess than 40% ucted a digital past month	Use cases for which of respondents con- transaction over the	between 40 and 70% ducted a digital past month	Use cases for of respondents transaction ov	which more than 70% s conducted a digital er the past month

"I receive my salary at the bank and then transfer it to mobile banking because, majority of the time, I use mobile banking and {Provider 3}."

– Female, user, individual consumer, Ethiopia

MSMEs embrace digital payments for customer payments, and to pay staff and suppliers.

Receiving customer payments is a popular use case for businesses and even motivated some business owners to take up digital payments in the first place. MSME respondents in Algeria, Mauritius, and Uganda also use digital payments to:

Q Pay staff salaries

O Send staff money for transportation or airtime

Table 3.3 | The top payment use cases and their level of digitalization among MSME respondents



- **Supplier payments** are increasingly well-digitalized in all the countries, driven by e-commerce and by suppliers demanding to be paid digitally.
- **Saving business income** appears in the top five digital payment use cases for all the countries. Its appeal lies in enabling MSMEs to better manage their finances.

Guinea	Mauritius	Uganda
Receive o paym	Save business income	
Save business income	Supplier payments	Receive customer payments
Supplier payments	Save business income	Supplier payments
	Airtime money for staff	
Loan repayments	aff iries	
between 40 and 70% ucted a digital bast month	Use cases for of respondents transaction ov	which more than 70% s conducted a digital er the past month

Convenience, low cost, trust, speed, and reliability encourage habitual use.

Phone and internet access are crucial enablers of digital payments but are among the top three barriers in all countries. Affordability is the next most common barrier, especially in Ethiopia and Uganda.

Can you

ACCESS

digital

payments?



Some respondents also find it difficult to read the instructions and navigate user interfaces. Convenience is a significant factor that encourages early users to become habitual users, particularly the speed, time saved, and ability to access payments anywhere. Respondents also emphasize the safety that digital payments provide against theft.



Unreliable mobile networks, difficulties in reversing transactions in case of mistakes or fraud, and limited acceptance of digital payments by merchants pose barriers to habitual use. Fear of fraud and scams undermine trust, further exacerbated by poor customer service and recourse. Transaction costs can also be a deterrent in some countries.

> What motivates HABITUAL use?

What motivates EARLY use?

People DON'T

adopt digital payments when they have data privacy concerns, few opportunities to use digital payments in their social or work sphere, lack trust in providers, perceive digital payments to be higher cost relative to cash, and lack awareness and knowledge about how to use them.

People DO

adopt digital payments when they receive their income digitally, when family and friends use and recommend digital payments, or, in the case of MSMEs, when their customers want to pay digitally.

66

"Once when I was with my husband, we tried to pay with a digital payment option, but it didn't work because there was no network."

— Female, user, business consumer, Algeria

"I discovered it as people were using it, I was hearing people talking about provider A, so that's how I started using it too."

— Female, user, individual consumer, Guinea

"And another risk is the digital fraud. Money can be taken by any person in a way which you cannot understand or explain."

— Male, user, individual consumer, Uganda

SIIPS 2024 • Short Report 25

ALWADA PEV SACO

"The math you have to do is the value of your time to run your business or go to a bank just to save the money you pay for the transaction you are making."

— Male, user, business consumer, Ethiopia

Barriers to inclusivity

Competitive dynamics and regulation shape the ability to meet end-user needs.

The ability of an IPS to meet end-user needs and make digital payments more inclusive, and thereby become an IIPS, depends on the competitive dynamics within their market, their opportunities to scale, and the inclusivity enablers and barriers they deal with:



Private sector providers may not be motivated to participate in the IPS:

Providers with high traction and established payment architecture in their market may resist joining an IPS without a clear incentive or value proposition. In these markets, the transaction volumes and values that pass through the IPS may be too low for it to operate sustainably.



Overly complicated or costly integration:

Smaller payment service providers or those with older technology face challenges when integrating into IPS.



Geographic overlap could fragment scale:

Some of the new IPS in development are regional systems offering services that could overlap with those offered by domestic systems.

Regulation and	licensing	regimes	mav	limit the	reach of	digital	payments
iogutation and	doctioning	regimes	may	unite che	i cuon oi	aigitut	payments

IPS operating under restrictive regulations may struggle to integrate new participants, such as non-bank PSPs, thereby limiting the number of end users they can reach.





Spotlight on the need for innovation-friendly regulation

Deep dive into fintech licensing and eKYC

Enabling IPS inclusivity through innovation-friendly regulation.

Laws, regulation, and regulatory guidance shape the instant payments products and services available in a market. While some countries in Africa have made strides in modernizing their regulatory frameworks, many still face challenges in creating environments that fully support IPS and foster innovation and inclusivity.

As regulators embrace regulatory frameworks that can accommodate a changing payments landscape, two specific areas of regulation have high potential to impact the progression toward IIPS and DPI:

- Fintech licensing
- Electronic know-your-customer regulation (eKYC)

IPS stakeholders have the opportunity to advocate for and provide inputs in these areas.



Expanding the reach of IPS through risk-proportionate fintech licensing.



Barriers to licensing for fintechs limit the reach of instant payments

participate in IPS



Innovation-friendly regulation, including risk-proportionate licensing, can enable fintechs to

Inclusivity enablers

1

2

3

4

Provide clarity and guidance on the regulatory and supervision processes. Clear policies and consistent communication can empower fintechs to pursue licenses, even before licence categories are updated.

Apply a risk-based approach and update license categories. Introduce risk proportional licensing (such as tiering), and updated licence categories which are flexible and reflect an evolving landscape of payment activities.

Leverage supervisory technology. Digitalizing supervisory processes will streamline licensing processes and free

up resources to serve more complex support needs.

Make financial inclusion a foundation of the regulatory sandbox or innovation hub criteria. Provide preferential access to products or business models that prioritize underserved users.

Enabling inclusive onboarding with eKYC.

Regulatory approaches to "know your customer" (KYC) and customer due diligence (CDD) compliance can have a significant impact on a PSPs' ability to onboard customers and equip them to use digital payments.

The KYC process involves three main steps-sharing attributes, providing credentials, and verifying credentials. Over-stringent approaches to KYC coupled with a strong reliance on paper-based and

manual processes can both exclude people and be ineffective at managing risk (FATF, 2021). eKYC replaces this manual approach with alternatives that allow the use of electronic documentation and validation-a more inclusive approach.

The following figure examines what eKYC could look like across all steps, and the benefits it could offer, compared with non-electronic means of identification.

Figure 4.1 | Overview of the KYC process and the use of electronic means

	Step 1: Customer shares identity attributes (e.g., name, birth date, address)	Step 2: PSP checks identity attributes against credential provided by customer	Step 3: PSP verifies the credential
Non-electronic	Paper-based formVerbal sharing of details	 Physical credentials and documents (e.g. national ID card, proof of address) 	Physical inspection of the credential through 'touch and feel'
Electronic	 Electronically filled-out form Automatically populated form from database/MRZ/QR/ Chip-reading (if PKI/encryption involved, this includes step 3) 	 Electronic copy of a physical credential Biometrics Electronic credential without any physical representation 	 Electronic authenticity check and image/document validation Cross-checking of attributes/ credentials against database/ MRZ/QR/Chip Fraud detection Video verification Validation of token material Liveness detection
Primary objective of eKYC	 Improves data accuracy Improves customer convenience Enables remote interaction Overcomes literacy-related barriers 	Improves robustnessEnables remote interaction	Improves robustnessEnables remote interaction

Customer interaction can be physical or remote. The option of remote customer interaction improves the accessibility of financial services



All IPS countries allow some eKYC, but gaps remain.

All the countries with a live IPS have enabled some elements of eKYC. But significant gaps remain in the use (or non-use) of electronic credentials, which are either not allowed or there is a lack of guidance around how

Table 4.1 | eKYC regulation mapping across countries with live IPS

Country	Form of attribute submission	Type of credential	Credential verification	Remote customer interaction	Tiered KYC in place
		End-to-end eKYC	enabled		
Egypt, Arab Rep. ²	Electronic allowed	Electronic allowed*	Electronic allowed*	Allowed*	Yes*
Kenya	No provisions	Electronic allowed	Electronic allowed	Allowed	No
Mauritius	No provisions	Electronic allowed	Electronic allowed	Allowed	No
Nigeria	Electronic allowed	Electronic allowed	Electronic allowed	Allowed (High risk)	Yes
Rwanda ³	Electronic allowed**	Flexible	Electronic allowed**	Allowed	Yes
South Africa	No provisions	Electronic allowed	Electronic allowed	Allowed	No
Tunisia	Electronic allowed	Electronic allowed	Electronic allowed	Allowed	Yes
Zimbabwe	No provisions	Electronic allowed	Flexible	Allowed (High risk)	No
	l	Elements of eKYC a	re enabled		
Angola	No provisions	Physical only	Physical only	Allowed (High risk)	No
Ethiopia	No provisions	Physical only	Flexible	Allowed (High risk)	Yes
Ghana	No provisions	Physical only	Electronic allowed	Allowed (High risk)	Yes
The Gambia	No provisions	Physical only	Flexible	Allowed (High risk)	No
Lesotho	No provisions	Electronic allowed	Flexible	No provision	Yes
Madagascar	No provisions	Physical only	Physical only	Allowed	No
Malawi	No provisions	Electronic allowed	Physical only	Not allowed	No
Morocco	No provisions	Flexible	Flexible	Allowed (High risk)	No
Mozambique	No provisions	Physical only	Physical only	Allowed (High risk)	No
Tanzania ⁴	No provisions	Physical only	Physical only	Allowed	Yes
Uganda	No provisions	Physical only	Physical only	Allowed	Yes
Zambia	No provisions	Physical only	Electronic allowed	Allowed	Yes
CEMAC	No provisions	Physical only	Flexible	Allowed (High risk)	No

* Only applicable to non-banks. ** Only applicable to e-money issuers.

- is done electronically except for the signing of the documents-where customers still need to go in physically or sign through a courier (Stakeholder interviews 2024). However, the Financial Regulatory Authority (FRA), who regulates non-banks, issued extensive guidelines for digital identification in 2023 which has opened up end-to-end eKYC for non-bank institutions. Under these regulations, eKYC service providers can also become accredited to offer their identification and verification services to non-banks. Since regular banks are not covered by these regulations, they still need to get a physical signature, although the CBE has been known to issue exemptions on a case-by-case basis. The CBE is currently working toward developing eKYC regulation and a digital financial identity (Stakeholder interviews, 2024).
- 3 The National Bank of Rwanda issued new e-money regulations in 2022, which explicitly allows customer registration to be done electronically, and identity to be verified via the National Identification Agency's database. This opens up for end-to-end eKYC for e-money issuers (National Bank of Rwanda, 2022). The regulation applicable to banks does not have the same explicit mention of eKYC for verification and attribute submission, but takes a more flexible approach which refers to "reliable, independent source documents, data, or information" and allows for non-face-to-face interaction which also opens up for end-to-end eKYC (National Bank of Rwanda, 2022).
- 4 Tanzania offers end-to-end eKYC for Tier 1 E-money transactions, if the individual already has a registered phone number and mobile money account (Bank of Tanzania, 2015a).

to use them. The latter can breed uncertainty among PSPs on how to comply with the law, leading them to default to more stringent and less inclusive approaches (Cenfri, 2018b).

2 While the Central Bank of Egypt (CBE) currently does not have eKYC provisions in place, some banks and non-bank financial institutions have implemented a "lite" eKYC where everything

Expanding access to instant payment systems with eKYC.

4

6

Barriers to end-to-end eKYC prevent efficient onboarding for remote or underserved end users. Challenges to full implementation of eKYC include regulatory barriers, issues related to technology and infrastructure, operations and finance constraints, and PSP adoption. Classifying remote interactions as high risk, a lack of cross-border harmonization, and a lack of support for innovation in existing regulations causes financial institutions to default to manual, analog processes and physical credentials.

Legal certainty from regulators will help promote eKYC adoption and expansion. National and regional policies will be essential for helping promote eKYC and related programs, including digital ID. Harmonization across countries will be crucial for cross-border payments to avoid costly duplications.

2

3

eKYC enablers

Implement risk-proportionate regulatory frameworks for customer due diligence. Regulators should implement a

risk-based approach to ensure greater flexibility in their regulatory frameworks, particularly shifting towards outcome-based customer due diligence processes for banks and non-banks.

Allow electronic credentials and electronic submission of attributes. Regulators should publish guidance that gives clarity on what is allowed in terms of electronic attribute submission, use of electronic credentials, or electronic representations of physical credentials.

Enable electronic verification and build reliable and integrated digital ID

infrastructure. Issue guidance on which electronic ID verification methods are allowed, particularly in the absence of accessible government databases or digital ID systems. Augment the regulatory guidelines with national identity infrastructure developed as DPI. Move away from classifying remote interactions as high risk. Regulators should clarify that remote interactions are not always high risk and can be standard or low risk with proper identification measures.

Promote efficient data-sharing practices. Regulators can push to fulfill information-sharing

requirements per FATF recommendations. Promote a collaborative approach to CDD that enables PSPs to rely on other regulated PSPs or service providers for eKYC.

Harmonize regional guidance on eKYC for consistency across jurisdictions. Regional bodies should provide regional guidance on how PSPs can interpret regulations in the

context of eKYC. They can also harmonize regulatory and supervisory approaches and practices.

5

Opportunities and trends to drive scale and inclusivity



Market, system, and consumer trends provide opportunities to increase IPS inclusivity and scale.

Several trends will affect IPS in the years to come, each of which creates distinct opportunities to help drive inclusivity. These trends fall under three broad categories:

- Market trends relate to the environment in which an IPS and its stakeholders operate; key among these is the priority placed on DPI.
- System trends refer to those that arise from the IPS itself.
- Consumer trends reflect specific consumer behaviors and needs.

Market level trends **Opportunities for generating IPS inclusivity** Trend Why important? DPI has high priority in the • Leverage momentum around DPI to position 1. global discourse and is IPS as a public good, and to access strategy The DPI concept positioned as the foundation development and capacity support. shapes the IPS debate of digitalization. • Collaborate with other ecosystem more explicitly stakeholders to agree on common standards that cut across a digitalized economy. While PSPs are not to • Leverage gains from digitalization by 2. blame, trust and access deploying modern payment acceptance **IPS** and financial are undermined by USSD and transfer options. inclusion impact time-outs and network • Develop workarounds such as offline depend on mature errors. payments or near-field-communication national infrastructure tags supported by IPS. digitalization • Increase trust through transparency around payment status and recourse channels. 3. Not all regulatory • Provide input into regulatory frameworks in Africa can yet reform processes. **IPS** innovation accommodate IIPS-relevant • House centralized KYC facilities at the will continue to innovation. IPS, supported by end-user consent, to be constrained enhance CDD/KYC processes. by regulation and under-use of data to • Build a consistent approach to inform IPS processes data collection to enable data for decision-making around IPS governance, features, participant and end-user onboarding, and transaction risk analysis.

The large number of systems in development creates the risk of fragmentation and presents opportunities for integration.

	Schem
Trend	Why important?
1. Regional IPS face roll-out delays	Regional IPS are completo set up and operate. Meanwhile, private, closed-loop cross-bord solutions are filling the gaps.
	The meteratic feat IDC to
2. Dramatic increase in instant payment capacity	become DPI depends of business model and sca With many IPS, there is risk that a battle for sca may cause fragmentatio and undermine viability business models.
3. IPS will prioritize payments via mobile phone	The increase in mobile money accounts and m phone penetration in Af remains the core of mo IPS developments. Ther focus on apps as a char and mobile numbers as proxy identifiers.



The momentum behind DPI can drive payment system inclusivity.

tren	ds
	Opportunities for generating IPS inclusivity
	 Prepare domestic IPS for regional integration (e.g. solving forex, data sharing, and cooperation challenges) for faster deployment of regional systems. Build the value proposition for regional IPS as providing an opportunity to double up as domestic IPS where none exists, and to solve key bottlenecks for remittances and trade payments.
he	 Leverage competition between PSPs to improve the value proposition of the system. Optimize the business model through appropriate IPS design and a participation strategy.
iile a rn s a el	 Roll-out user-friendly mobile technology across the board, such as request-to-pay, and QR codes. Upgrade security measures for mobile phone processes via the IPS. Consider the realities of USSD for those for whom smartphones will remain unaffordable.

Data privacy, fraud, and transaction costs will continue to hinder IPS adoption, but the desire for digital income streams could overcome these challenges.

Consumer trends		
Trend	Why important?	Opportunities for generating IPS inclusivity
1. Barriers to habitual use remain	Data privacy, fraud, and transaction costs remain barriers to the uptake of digital payments.	 Improve security features and incorporate fast redress channels. Mitigate the risk of data abuse through a robust data governance framework at the IPS level. Revise pricing strategies.
2. Receiving recurring digital income is becoming a catalyst for instant payment use	Receiving digital income is an enabler of instant payment adoption.	 Incorporate G2P use cases into IPS, given the role that social assistance plays in supporting household incomes—and in helping to drive financial inclusion. Centralized KYC information at the IPS level can assist in beneficiary confirmation.





6

The next steps for IIPS

Africa has increased the availability and use of instant payments. The next priority is to ensure that IPS are inclusive to fulfill the promise of DPI.

Takeaways from SIIPS 2024

- 0 Cross-domain systems show strong increases in IPS volume and values.
- Regional systems are signing up more participants and fostering cross-border connections.

Remaining challenges

- Q Consumer barriers related to trust, affordability, and accessibility remain.
- Both domestic and cross-border IPS battle for scale, as they compete with private payment solutions and the cash economy.
- Regulation and licensing regimes limit PSPs' ability Ó to innovate and expand inclusion.

- Several systems have moved up in the inclusivity ranking.
- Systems are becoming more useful for end users Ó by enabling more use cases and channels.

As more countries align their digital modernization efforts to the DPI movement, there is an opportunity for the financial sector to update regulatory frameworks and mandate interoperability to benefit the broader society.

Recommendations for IPS Stakeholders

$\int 000$

IPS operators can:

- Implement inclusive use cases, channels, and instruments
- Expand consumer recourse
- Design a sustainable business model and participant engagement strategy



Development partners can:

- Conduct assessments, provide capacity building and technical assistance
- Fund and support critical ecosystem projects

• Broker between IPS ecosystem actors



- Champion a national/ regional DPI strategy
- Implement innovationfriendly regulation
- Improve connectivity and infrastructure provision

IPS participants can:

- Offer user-friendly payment, products, and services
- Mitigate against mobile payments fraud
- Shape IPS and DPI projects through active participation



The road to inclusivity requires:

INNOVATION-FRIENDLY REGULATORY FRAMEWORKS to drive more direct fintech participation and streamline eKYC frameworks to easily onboard end users.

BROAD-BASED IPS PARTICIPATION, driven by buy-in to IPS as a public good and an essential part of DPI.

Public private partnerships to create an integrated approach to DPI-driven development.

THE IMPORTANCE OF **DISAGGREGATED DATA SHARING**

The more IPS collect and share disaggregated data on on-us and not-on-us transactions, use case-specific flows, and gender-disaggregated data, the greater the learnings will be to the benefit of all.



This report contributes to the formation of a common measurement framework for IPS. AfricaNenda is committed to achieving the common goal of making digital instant build capacity for impactful IIPS that add to the digital public infrastructure in Africa.



MORE PROACTIVE COORDINATION between regulators at the domestic and regional level.

AfricaNenda

AFRICANENDA—A TRUSTED PARTNER TO **STAKEHOLDERS ON THE CONTINENT**

AfricaNenda acknowledges the role and contributions of other development partners in pursuing this mission.

List of central banks or IPS operators that completed the SIIPS 2024 IPS survey.

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System	Volume and values data by central Bank
KWiK (Angola)	National Bank of Angola
IPN and Meeza Digital (Egypt)	Central Bank of Egypt
Gamswitch (The Gambia)	Central Bank of The Gambia
GIP and Ghana MMI (Ghana)	Bank of Ghana
Kenya mobile money (Kenya)	Central Bank of Kenya
LeSwitch (Lesotho)	Central Bank of Lesotho
Madagascar mobile money (Madagascar)	Banque Centrale de Madagascar
MauCAS (Mauritius)	Bank of Mauritius
RTC (South Africa)	South Africa Reserve Bank
Taifa Moja; TIPS (Tanzania)	Bank of Tanzania
Tunisia mobile money (Tunisia)	Banque Centrale de Tunisie
Uganda mobile money (Uganda)	Bank of Uganda
System	Volume and values data by IPS operator
EthSwitch (Ethiopia)	EthSwitch
Gamswitch (The Gambia)	Gamswitch
PesaLink (Kenya)	Integrated Payment Systems Ltd. (IPSL)
Natswitch (Malawi)	Natswitch
NIP (Nigeria)	Nigeria Inter-Bank Settlement System (NIBSS)
eKash (Rwanda)	RSwitch
Payshap (South Africa)	BankservAfrica
NFS (Zambia)	Zambia Electronic Clearing House Limited (ZECHL)
7IPIT (7imbabwe)	Zimswitch





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