BitPesa

Blockchain Technology for Africa



Blockchain Technology for Africa

What is Blockchain Technology? Distributed Ledgers?

How does it compare to current technology?

Who is using it?

Why is it important?

How does BitPesa use it?

How can Central Banks regulate Blockchain businesses?

What is a blockchain?

A blockchain is a type of distributed P2P network



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P2P Distributed Networks

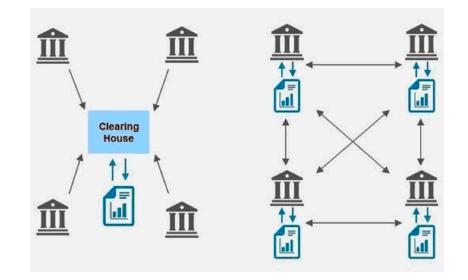
Safe, cheap, scaleable

Less vulnerable to attack

Get stronger as they get bigger

Extremely low-cost to maintain

Low barrier to entry for new entrants to participate





Current Global Financial System

Inefficient centralized networks

International Settlement System (SWIFT) **Correspondent Bank** citibank Standard Oligopoly Chartered National Settlement System (NIBS) National Settlement System (ACH) Higher costs to maintain Get weaker as they get bigger Low interoperability -> exclusion Bank Bank Bank Bank Bank Bank Bank Bank Difficult for smaller players to participate

Easy to exclude countries or corridors ("de-risking")





Blockchain Financial Systems

Use Distributed Ledgers

Still need banks to participate

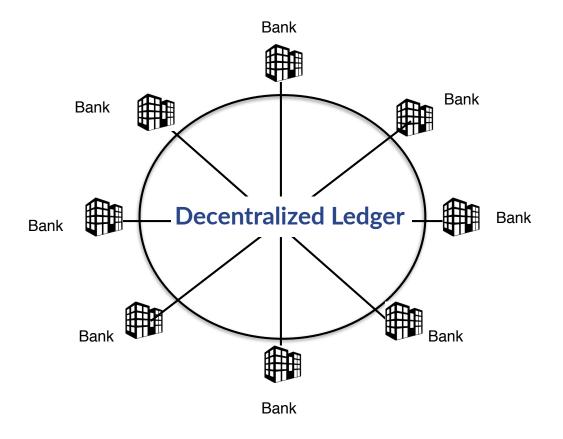
Direct connectivity to all participants

Cryptographically secure

More inclusive

Reduced Corruption

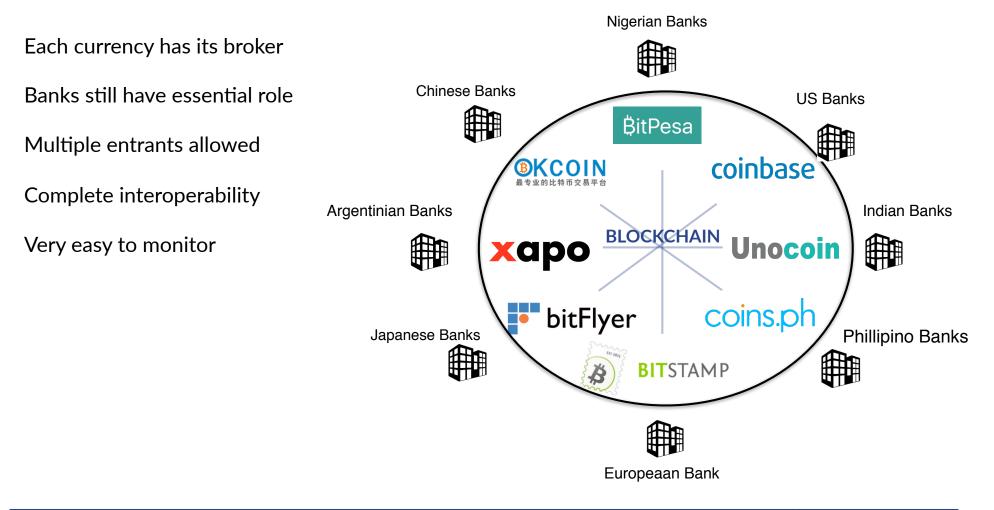
Easier to monitor





Blockchain Financial Systems

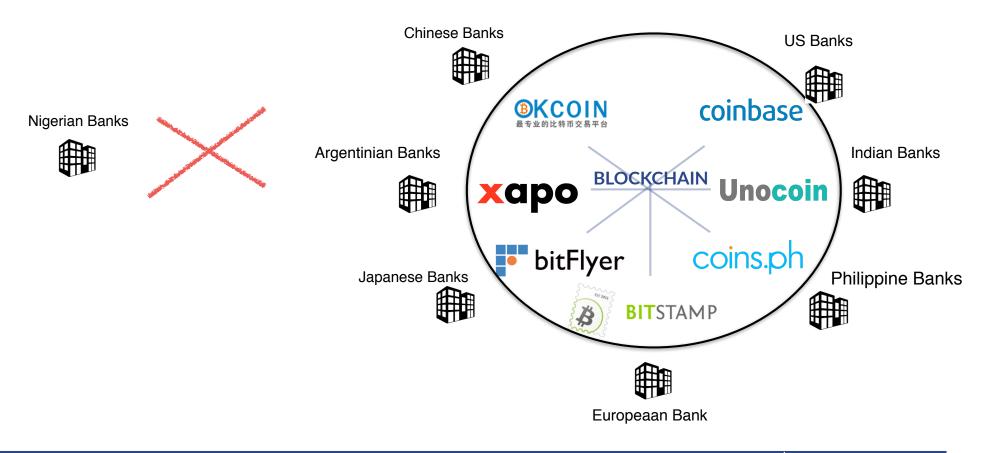
No correspondent bank oligopoly





Banning Blockchain Removes Nigeria from Global System

Every major global bank is already participating



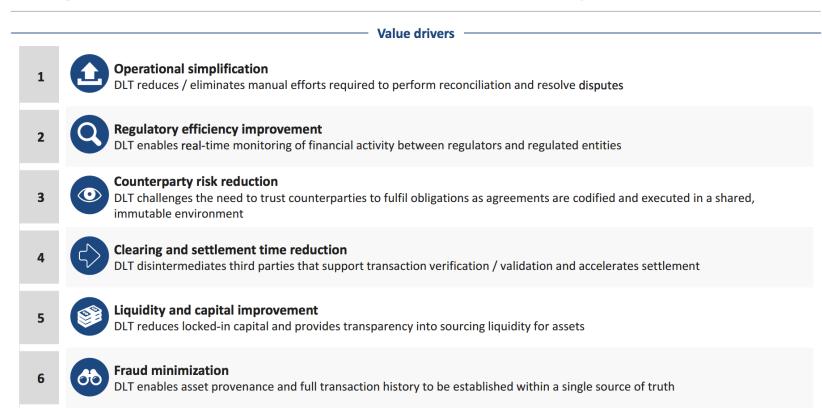


Benefits of distributed ledgers

1----

Distributed ledger technology has great potential to drive simplicity and efficiency through the establishment of new financial services infrastructure and processes

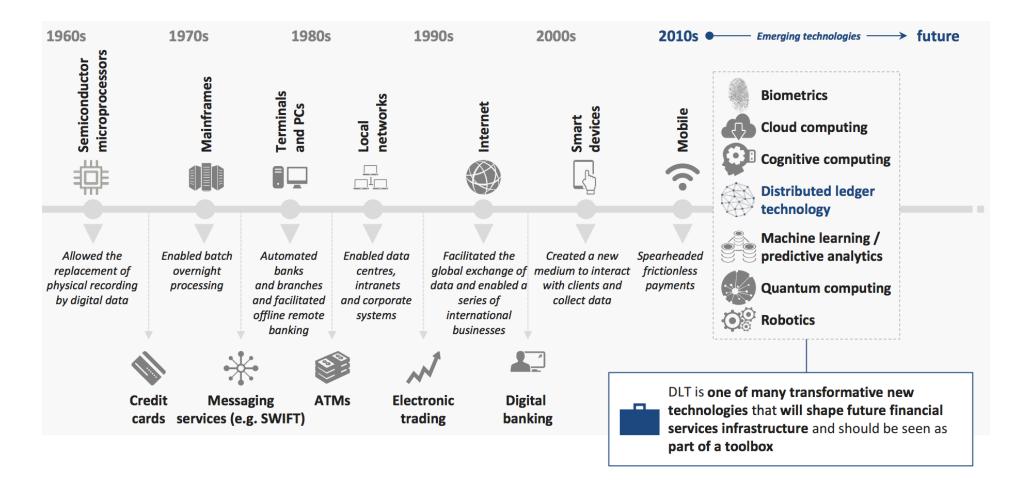




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Blockchain is transformative

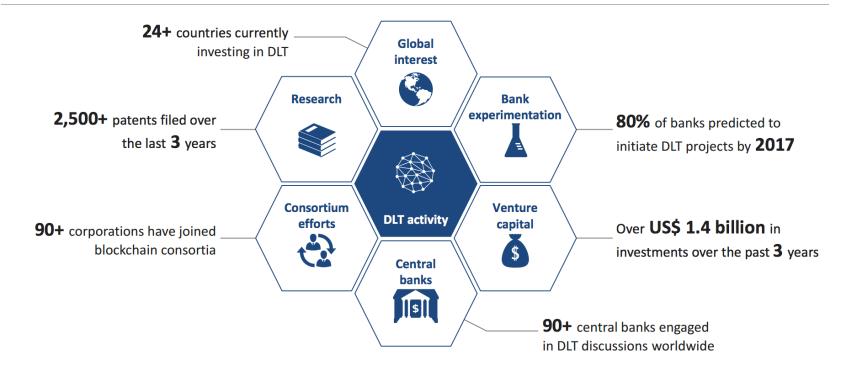




Blockchain reaching critical mass

Distributed ledger technology (DLT), more commonly called "blockchain", has captured the imaginations, and wallets, of the financial services ecosystem

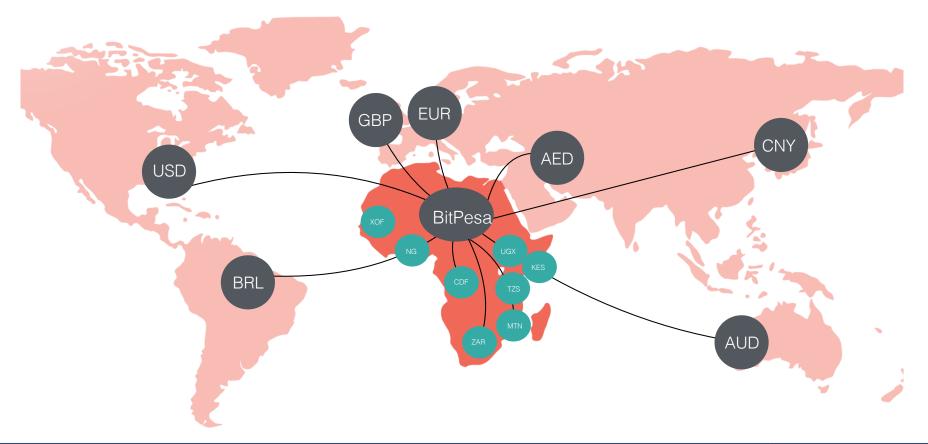






BitPesa uses Blockchain for B2B Payments

Fast, easy, inclusive and digital





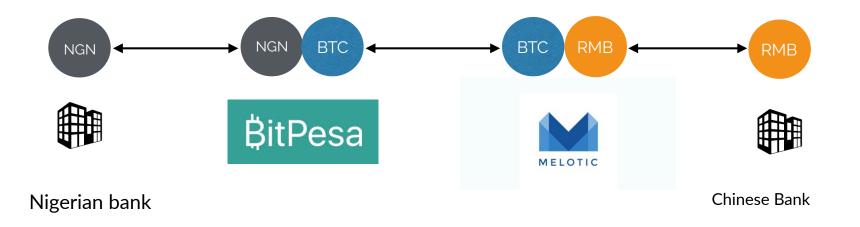


BitPesa transactions still require banks

but are less dependent on correspondent bank system

Does not accept cash transactions

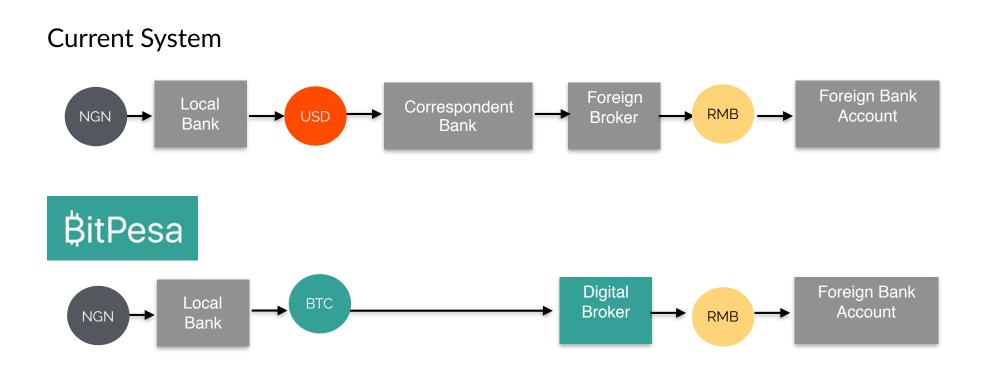
Brings informal payments into the formal sector and reduces corruption





BitPesa Transactions

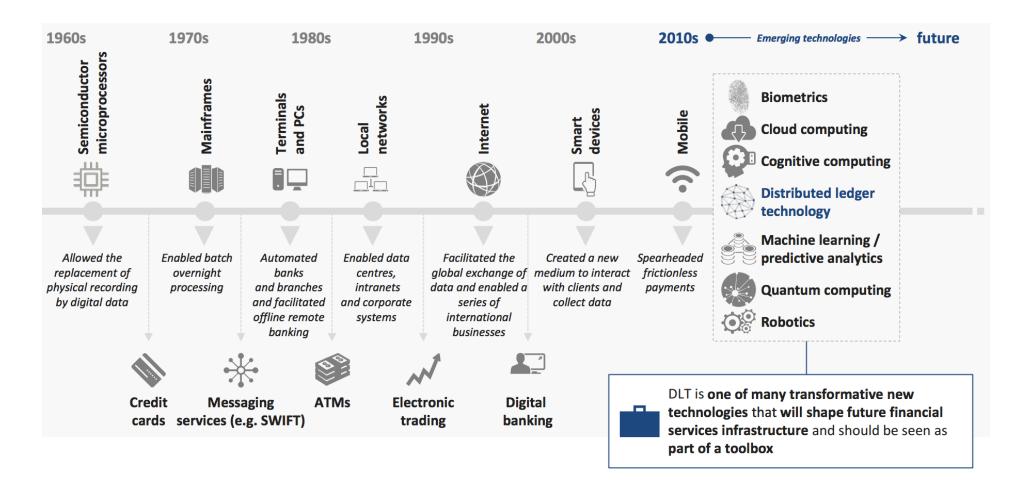
remove the need for USD as a middle currency



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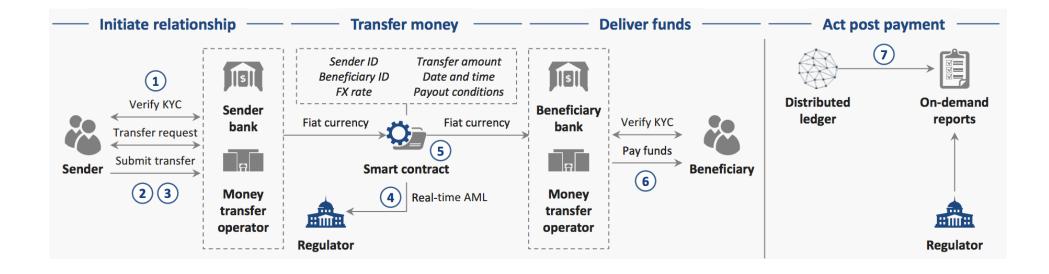
Blockchain is transformative





Important to enforce KYC/AML/CFTC

Businesses using blockchain should be licensed







Many types of Blockchain businesses

Not all types of blockchain-using businesses should be legal

Digital Currency Payment Providers	Digital Currency Exchanges	Digital Currency Wallets	Investment Schemes
Directly transacts with customer Straight-through-payment- processing	Platform for customers transacting with each other	Holding funds on behalf of customer	Pyramid Investments
Should collect KYC directly from customer	Should vet all users of platform	Should hold core capital in NGN	Strong warnings for consumer protection
Should vet all counterparty brokers to ensure compliance	Should enforce that users collect KYC	Should be regulated as deposit-taking-instituion	Similar to gambling regulations
₿itPesa		LUNO Bitcoin for everyone, everywhere	

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Policy Recommendations

on how to easily adjust legislation for this technology

Foreign Exchange	E-Money	Commodities	Payment Service Providers
Defines "currency" as legal tender Digital currencies are not legal tender anywhere except Japan	 "e-money" is "monetary value stored electronically in a centrally- held electronic device." Digital currencies are not "centrally-held," Digital currencies are not "monetary value," they are not legal tender. 	 Digital currencies are not a physical, tangible good, but rather exist completely online in digital form Digital currencies have no inherent value, but rather exist as a medium of exchange 	Non-cash payment modes do not currently include virtual or digital currency payments
CBN could seek to modify the definition of currencies to include "digital currencies"	CBN could modify rules so they apply to digital asset wallet holders	CBN could work with SEC to expand definition of commodities to include "digital assets"	CBN could include digital currency payment providers in existing regulation

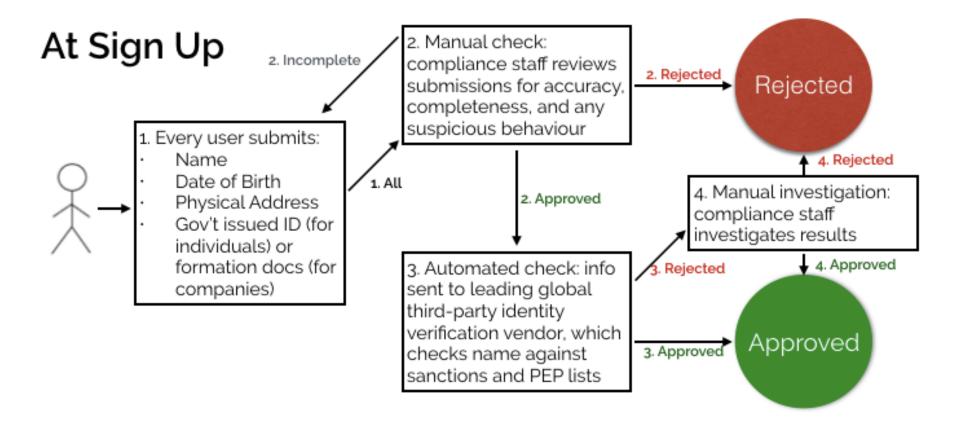


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BitPesa KYC / AML

Every customer has full KYC at Sign-up and for each transaction





Mandatory KYC / AML

Transact only with regulated entities Ensuring multiple checks on each party for each transaction. Monitor every transaction for suspicious activity.

