**EDEPOSITE**

**Decentralizing African Economy**V 1.0

Title

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**DISCLAIMER**:

By participating in this ICO, the purchaser is fully aware and accepts the risks related to token security, the possible lack of economic results. Finally, the purchaser declares being aware of the legal uncertainty of this type of transaction and has conducted his due diligence according to the law to which he subscribes. Any buyer purchasing eDeposite token also acknowledges the technological and economic uncertainty of the project presented in this White Paper. Therefore, purchasers are aware of the absence of any legal action against the company in case of failure, nonperformance, or non-implementation of the project, as well as in the case of the eDeposite token losing part or even the totality of its value. Purchase of the eDeposite token grant user the ability to use the coming eDeposite use cases on their platform services. No other rights are transferred upon the ICO. Precisely, the company’s only obligation is to distribute the eDeposite token under the conditions defined in the White Paper. During the ICO, the company may not be held liable for any loss incurred by the user.

**Abstract**

*The paper started its argument with if Africa could perform internet activities such as communication with almost no intermediary, then, she should also join the rest of the world in building financial systems using the same mechanism. Highlighting why cryptocurrency is needed on the continent. The research probes why Africa is lagging in the adoption of cryptocurrency, the challenges militating the cryptocurrency market and presented an overall solution in simplified terms. Although, some statistical report have indicated a high level of African’s interest in cryptocurrency, thus, leading to some researchers conducting a theoretical investigation into the conflict between the interest and the adoption rate of cryptocurrency but failed to recommend a practical solution. This paper also discovered that the late adoption of the internet on the continent resulted to slow technological growth. Here, we demonstrated that cryptocurrency can be simplified to suit the current technological state without compromising security standards. In conclusion, we were able to prove that Africa is the most promising continent that needs cryptocurrency innovation to catch up with the current economic and technological renaissance and that Africa needs her own indigenous cryptocurrency suitable for her economy, or else she will continue to locked her funds in cryptocurrencies used in developing foreign economies.*

1. **Introduction**:

The etymology of the word eDeposite is from “electronic“ and “deposite”. As the world advances more of its activities on the internet, such as communication, entertainment, education, etc all these are made across borders with little or no intermediaries, therefore, financial activities can also be performed on the internet the same way. There is a need to bank online, keep assets online, and enjoy it as it appreciates. At eDeposite we believed the entire process of banking online should be easier, cheaper, and secure. We are committed to creating a digital currency system that allows financial transactions to be performed transparently across borders with lesser transaction fees. This type of payment can only be achieved through blockchain technology.

When a financial system is built on a peer-to-peer decentralized system, providing immutability, guaranteeing autonomy, providing maximum security, bypassing the unnecessary financial intermediaries that increase the cost of the transaction. It is nothing beyond cryptocurrency. No doubt the crypto-industry is booming globally and Africa is joining the race. It is becoming more attractive especially to investors who want to maximize profit in a short time. Other problems cryptocurrency solve includes; the speed of transactions and borderless ability, hence, making it an instrument capable of becoming a perfect global payments system.

Researches have shown that Africa is one of the most promising continents in cryptocurrency adoption. This is because most African nations share common economic issues ranging from high inflation rates and volatile currencies to financial issues such as capital controls and a lack of banking infrastructure, all these create a fertile ground for an alternative like a cryptocurrency that is positioned to become the ideal antidote to these challenges. (1)

How long do we continue to allow a few individuals to control, benefits & determine the value of our funds? Under the guise of centralized & secured by the government?

***Hurry up to invest in the first Cryptocurrency to decentralize African economy.***

***Few tokens are available!***

1. **Summary of eDeposite**

**2.1 Cryptocurrency Market in Africa and Challenges.**

Cryptocurrency enables one to bypass intermediaries and remain independent from traditional financial institutions. However, only a few managed to become a commonly used monetary asset. Merchants and service providers in Africa are often very reluctant in accepting cryptocurrency payments as it involves additional risks of exchange losses and regulatory issues.

Also in conducting financial transactions online, there is no need to visit a bank before one can bank on the internet, unfortunately, the reverse is the case here in Africa, another annoying thing is spending more money to transact online. In Africa, high cost and low speed of transaction is an issue as traditional money transmitting service charge as high as 9% on $200 (2). Despite warnings from most African governments against cryptocurrency, the adoption rate continues to increase as more enlightened businesspersons continue to give it a second thought, the reason is not far from its potential benefits and the dire need for an alternative to poor financial services offered by African banks. Although the adoption rate is still inversely proportional to the interest level. Several factors could be responsible for the low adoption such as; cumbersome registration processes, the presence of Mobile Money, identity verification required, the silence of legislation, technical jargons is also holding some Africans back such as; Nodes, Private key, Public Address. Hashing, mining, etc.

On the other hand, African legislators are yet to make a stand due to; limited merchant adoption, few available use cases in the continent such as dApps, IoT, collectibles, programmable money, etc, thereby leaving many of its holders few options of usage and they finally resort back to exchange back to fiat. Besides, the resources required to join as a technical participant are expensive or not accessible. Roughly about only 0.2% of the over 10,000 bitcoin and ethereum nodes resides in Africa and almost all are in South-Africa. (3). Moreso, there is yet no meaningful mining activity in Africa (4). There are currently about 5000-7000 cryptocurrencies in the world (6) (7) and less than the 1% that originated from Africa are still not addressing these problems.

One of the major reasons why Africa is lagging technologically was her late adoption of the internet when it was booming in the late ‘90s. Poor leadership who do not want public censor-free information delayed the adoption. How long do we need to hold ourselves down against development?

***“No doubt, Cryptocurrency has come to stay, the big question remains how long will Africans continue to grace foreign brands?”***

* 1. **eDeposite An Exclusive Solution**

eDeposite is devised as a solution to address these fundamental issues and takes into account the challenges and problems faced by the Africans in adopting cryptocurrency. An instrument capable of becoming a perfect global payments system.

* + 1. **Aim**

To unify Africa by creating an autonomous decentralized payment platform suitable for the continent’s economy with low volatility. A currency suitable to serve as a speculative asset and also for the exchange of values. To develop a sound base where individuals or corporate entities can develop businesses on and around. With eDeposite, a closed community like a university can build a community-based app that can be used by all the members of that community to perform their daily transactions using eDeposite token.

* + 1. **Business model**

Investors’ hope should have risen as they have entrusted us with their funds, therefore, value needs to be given, and their funds need to appreciate. We plan to operate a Business2Business model, creating a manifold of use cases to increase value, support the establishment of more advanced eDeposite tokens that can be extensively used for utility purchases.

* + 1. **Unique Selling Proposition**

Considering the technological advancement level of the continent, the complete system is designed to fit into this level without compromising standards and has also fashioned out a way to improve this standard progressively. This is evident in some processes such as mining which does not require sophisticated computers or powerful mining rigs before new coin tokens are produced. The number of transactions performed by verified merchants will be cryptographically converted to new coins. Nodes and merchants are mandatorily Africa based firms because they share a fraction of the infrastructural charges on every transaction. There will be at least 55nodes to validate a transaction. The currency has the economic ability to serve as a utility asset that can be used to make purchases anywhere in the continent.

* + 1. **eDeposite Fact?**

1. **Name**: eDeposite simple means electronic deposit. The smaller unit is called Pesa, Pesa is translated as money in Swahili language Africa most spoken language.
2. **Divisibility: 1eD** = 10000000000000000 = 1016

African Population by 2100 = 4.6billion

African Tribes = 3000

No. of Countries in Africa = 55

*The product of the above is taken to 1significant figure*

4600000000\*3000\*55 = 759000000000000 to 1s.f 10000000000000000

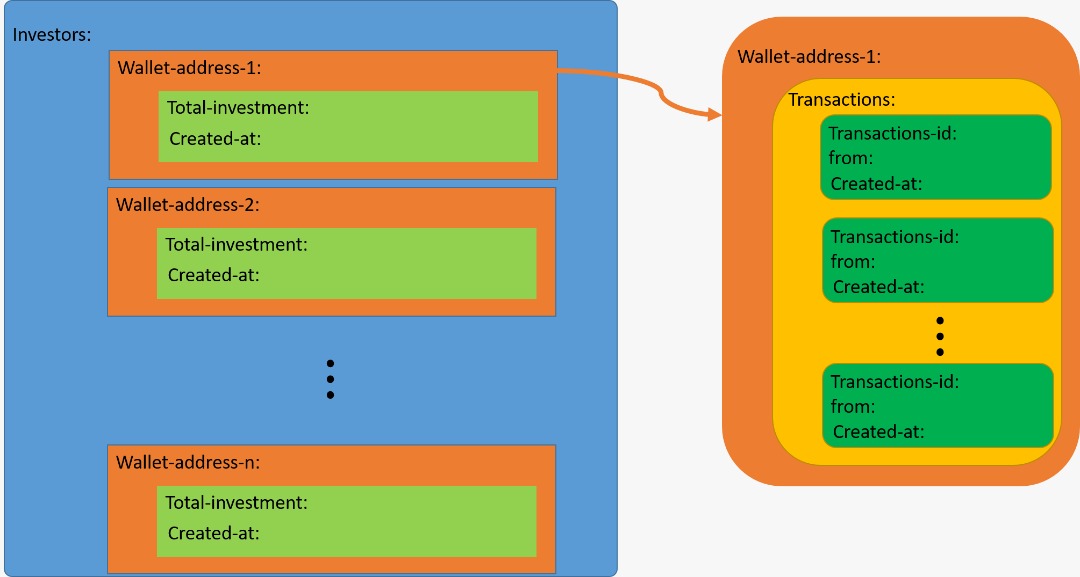
We assume that by 2100, every African citizen is expected to own **1eDT**

1. **Mining Process**

New tokens are mined when 1000 transactions are performed through a verified merchant. These new coins will be incubated in cold storage for 365¼days. The incubation period is the waiting period that determines the validity of these transactions.

1. **eDeposite Public Ledger**

eDeposite ledger is very simple to interpret because they are displayed in simple language.



1. It is a "General public ledger" that shows all successful transactions and the public addresses that received them.
2. Both the sender and receiver’s identities are not shown. The part of the recipient's public address that will be shown may keep changing based on the owner’s privacy choice, This is to enhance security of the system.
3. Account-holders can choose the type of privacy level for their account.
4. The public Ledger shows the number of new tokens mined every second & the addresses they belong to.
5. The ledger also displays the total number of tokens in the system
6. It also shows all the transactions performed within the last 7days.
   * 1. **ICO Funds**

It is imperative to detail how token funds will be used. Funds raised during the ICO will be managed in the following ways.

* 5% Infrastructure
* 7% System maintenance
* 3% management welfare
* 85% Assets backing the currency.

eDeposite is an asset-backed currency, we value investors’ funds and hope there should never be a drop in value at any given time. We have a structure to backup eDeposite funds with the large mineral deposits in Africa, international fiat currencies, a growing number of African MSME such as; the African Fintechs, Agriculture, Manufacturing, Transportation, Real Estate, and most importantly focusing on human capital development.(5)

1. **The Blockchain Security**

Before any transaction can be processed & declared successful, there must be a consensus among all nodes. It must have been validated by all active nodes & declared true T. Once a transaction enters the system, the request is instantly redistributed to all the active nodes for validation. These nodes are to declare the transaction True T. or False F., by declaring a transaction True, a signature is appended on the transaction, if all nodes declare a transaction to be True (T), the transaction is processed and recorded on each node’s explorer and also on the public ledger. In a situation a transaction is declared False F. by a single node the transaction will remain pending till the next hour and revalidated by all the node, if the same transaction is declared F again by the same node, the transaction will be re-postponed till the next hour, this transaction will keep getting postponed till another node declare it F or all the nodes declares it T. If up to 25% of all the live node declares it false, the transaction is automatically canceled a recorded on a separate ledger for fraud investigation. For every transaction, all nodes will verify the origin of the sender’s balance from his last 10 transactions, this is to check the legitimacy of the sender’s balance before allowing it to proceed.

1. **Nodes**

Nodes are the highest participants of the system every country in Africa has a node representative. Nodes are interested firms who have met up the signup requirements and has been assigned an ID. IDs are issued alphabetically based on the order of joining the system. Nodes are lettered AA, AB, AC AD….AZ.. Nodes are saddled with some basic responsibilities such as serving as a watchdog for the entire system, existing nodes approve the new incoming nodes, verify the activity of co-nodes, and validates transactions. Only 55 nodes are allowed to operate on the system at a time. A Node can only communicate with the system using their registered IP during sign up. In a situation when a node wishes to change her IP, she is made to go back and reapply till the existing nodes approve her. To prevent conspiracy, Nodes’ identities are not revealed to other nodes. Nodes get some incentives for performing these tasks. The commissions given to nodes are gotten from the fraction of the infrastructural fee on transactions.

* 1. **Transaction Authorization**

Nodes authorizes transactions by validating the sender and recipient’s public address, sender’s present balance will be confirmed, and the originality of the sender’s balance, is also verified by checking through the last previous 10 transactions. All these are performed by the nodes and a consensus is reached before the transaction is approved.

* 1. **Verify the impeccability of Nodes:**

Protect the system and ensure Nodes and Merchants are not being compromised. At an interval of 1570 seconds, a node performs routine checks to verify the transparency level of other nodes to ensure they haven’t been compromised.. The invigilating node does this by checking the settings, parameters, IP configuration, records, server properties, and the number of false transactions detected by all nodes including itself, this is to ensure no node has been compromised. After this, the invigilating node passes the invigilating baton to the next node. This is a daily routine for all the nodes.

1. **Merchants**

Merchants are corporate participants through which users can sign-up and create a new wallet. There are two categories of merchants. Verified merchants and unverified merchants. The requirements of becoming a verified merchant is evidence of incorporation in the country they operate from before they can be connected to the system. Some state jurisdiction includes registration with the Corporate Affairs Commission, Deposit Insurance Permit, Central Bank License, Security Exchange Commission, etc. These are all to ensure the protection of user’s funds. Merchants can add more signup requirements in addition to the required ones by the system known as the Know Your Client (KYC), these are based on the category of users they intend to target, for example, some merchants may request a means of identification such as Voter’s card, BVN, SSN, National ID, International Passport or to upload a photo. It is better for users to sign-up through these merchants due to their flexibility. For example, some merchants may offer an account recovery process for their members. Unlike nodes, merchants can change their IP they use in connecting to the central system. But they will first need to send a notification for this. Merchants only communicate initiated transactions to the Transaction Receiving System (TRS), this is where they dump all their transactions.

**5.1 Functions of Merchants**

1. Merchants also serve as a gateway for users to transfer coins into other eDeposite wallet addresses.
2. Merchants offer a more comprehensive signup process and Map a Wallet Address to a particular user.
3. They further add more security features to the user’s wallet.
4. They offer extensive services suitable for their members other than fund transfer
5. They raise disputes on behalf of any user
6. They offer an account recovery process

**5.2 Benefits for Merchants**

1. They own every new token added to the system during mining.
2. They have a share of the transaction charges.
3. They also charge users an extra fee per transaction.
4. **Exchangers**

Although our plan to contribute to African’s cashless mission by creating diverse use cases to the extent of eliminating the need for cash, yet we can’t still overrule out the need for physical cash. Africa has a cash driven-economy (9)(10). Our vision is to bring cryptocurrency to the grassroots. Apart from being enlisted on global exchanger websites such as coinmarketcap and coingecko. We will roll out local verified exchangers across the continent. They will convert eDeposite coins back to fiat currency. The requirements for being a local exchanger is similar to that of a merchant. Exchangers have to be registered as a corporate organization in their country.

1. **The Mining structure**

At a point, there will be demand for new coin tokens at this point there will be a need to add more blocks to the system. The system will count the numbers of incubated coins and convert them into new blocks, after which they are added to the merchants’ wallet. With this, we hope there will always sufficient cash in the system otherwise a fork will be required (11)(12).

1. **The Fork of eDeposite**

This is an upgrade to blockchain system (8). To correct any anomaly, fix technical issues, debugging, or change protocol rules. This is essential to furtherance transparency, increase security of the system, and to enhance the aim of achieving a complete decentralized system. The upgrade may also include a change in infrastructural charges, network participant’s ratios, etc (12)

1. **eDeposite ICO**

eDeposite ICO comes differently from the popular ones, it has taken into consideration the basic information needed by investors to know about the project as described in the White Paper. The ICO is an investment opportunity for smart investors and there is an advantage for the early investors to earn more during the period. Every existing member gets a fraction from the 10% bonus assigned to new users. For every new wallet activated, ten percent (10%) of the amount of token purchased on this wallet will be shared among all existing members in ratios of their wallet balances, this is regarded as an early bird bonus.

**9.1 ICO REWARD SYSTEM**

**9.1.1 Early Bird General Bonus**

Rules

1. A wallet can only be credited once during any bonus sharing time, meaning a wallet can only receive from a general sharing bonus, referral bonus, or coin token purchased directly into a wallet.
2. The bonuses earned are not considered in subsequent calculations.

*Example 1;*

Mr. A signed up as the first user with **5eDT**

Mr. B joins the system and activates his account with 2**0eDT**  
Now, Mr. A will get an additional **0.4eDT** intohis bonus wallet

This is because there are just 2 people in the system,

10% of Mr. B’s 20eD = 2eDT

There are 2 users in the system,

Mr. A 5eDT

Mr. B 20eDT

Sharing ratio = 20:80

Therefore, from 2eDB allotted bonus, Mr. A will get **0.4eDB** bonus

*Example 2;*

Let assume there are **4 users** in the system with a total of **200eDT** in the following proportion, and a new user **Mr. E** just activated his wallet with **50eDT**

Mr. A 40eD

Mr. B 55eD

Mr. C 60eD

Mr. D 45eD

The 10% bonus gotten through the new user will be shared in using their ratio

Thus, having the calculation to be

Mr. **E’s 50eD** wallet activation will attract **10% = 5eDB**

Mr. **A’s 40eDT** = 16%

Mr. **B’s 55eDT** = 22%

Mr. **C’s 60eDT** = 24%

Mr. **D’s 45eDT** = 18%

Mr. **E’s 50eDT** = 20%

**5eDB** bonus will be shared among all members but only the 4 old members will receive the bonusmembers in the following ratio.

16:22:24:18

Mr. A’s 40eD = 0.8eD

Mr. B’s 55eD = 1.1eD

Mr. C’s 60eD = 1.2eD

Mr. D’s 45eD = 0.9eD

Mr. E’s 50eD = 1eD ------- This will be discarded

**9.1.2 Referral Reward System**

There is a referral package, this is just a marketing technique to complement the early bird reward strategy. An existing member earns a direct 5% bonus from a new member who registered using their referral link. Considering the short duration of the ICO, the mainstream media will not be sufficient to create enough awareness for the ICO, we, therefore, decide to reward members who have taken up their time to explain to other potential members about the opportunity.

*Example 3;*

Mr. A as the first user has **5eDT**

Mr. B joins signed up using Mr. A’s referral link and activates his account with 2**0eDT**,  
Bonus from 20eDT is 2eDB

50% of 2eDB is 1eDB

Now, Mr. A will get additional **1eDB** intohis bonus wallet

*Example 4;*

Let assume there are 4 existing users in the system with a total of 200eD in the following proportion, and a new user Mr. E just activated his wallet with 50eD using Mr. A’s referral link.

Mr. A 40eD

Mr. B 55eD

Mr. C 60eD

Mr. D 45eD

Mr. E 50eD ----- New wallet

Here, Mr. A will get 5% while the remaining 5% will be shared among all members using their ratio.

Thus, having the calculation to be

Mr. E’s 50eD wallet activation will attract 10% = 5eD

Mr. A’s 40eD = 16%

Mr. B’s 55eD = 22%

Mr. C’s 60eD = 24%

Mr. D’s 45eD = 18%

Mr. E’s 50eD = 20%

Mr. A will get a referral commission of 50% from 5eD equal to 2.5eD

The remaining 2.5eD will be shared as follows

16:22:24:18:20

Mr. A’s 40eD = 0.4eD ----------- This will be discarded

Mr. A’s ref Bonus = 2.5eD

Mr. B’s 55eD = 0.55eD

Mr. C’s 60eD = 0.6eD

Mr. D’s 45eD = 0.45eD

Mr. E’s 50eD = 0.625eD ----------- This will be discarded

**Team**

* **Komolafe Israel**: He obtained a degree in Educational & instructional Technology from the University of Ilorin Nigeria & MSc Degree from Nelson Mandela Metropolitan University, South Africa. Israel delights in taking tour within Africa and this has afforded him the opportunity to understand the common economic issues battling African countries and this assisted him in contributing immensely to this project, in completion of his masters program, he developed a software prototype that will assist teachers in administering classified questions based on various examination standard, this software (Q-GEN) became popular in southwest Nigeria and was welcomed by the Kaduna State Ministry of Education.
* **Hammed Obasekore**. A vast web developer who has both local and international experience, a Ph.D. researcher in the school of Robot and Smart Systems Engineering at Kyungpook National University, in Daegu. Korea. Hammed bagged his MSc. in Mechatronics and Robotics Engineering from Egypt-Japan University of Science and Technology (E-JUST). Egypt under the program supported by Pharco & co. His Bachelor degree was in Mechanical Engineering from the University of Ilorin, His desire for bringing technology to Africa made him to have interest in this project and he is currently researching in Deep Reinforcement Learning implementation for social/intelligent robots. His contribution is to research and set minimum technological standard for this project.
* **Muhammed Ibrahim:** Ibrahim is a Computer System and Network Engineer, with a background in Geo-physics from the University of Ilorin. Ibrahim. He has an expanse knowledge in identifying and locating earth minerals in African soil. Combining his computer knowledge with geo-physics, he is a perfect resource person for this project as the currency is to be backed with various African earthly minerals.
* **Akintomiwa Musthofaa Opemipo** is an accomplished software developer with over ten (10) years’ experience in applications development. He is outstanding in every stage of the life cycle of software development including design creation, coding, debugging, testing and maintenance. He is an expert in devising innovative and tailored solutions to assist businesses achieve their goals in a variety of industries. He is very proficient in a number of programming languages including Rust, Python, Typescript, Ionic, Cordova, Kotlin, PHP, JavaScript, MySQL , C/ C++, SASS etc. Akintomiwa is the lubricant to this project.
* **Yusuf Folawiyo** is a MSc holder in Telecommunications Engineering from the Federal University of Technology Minna. His versatile knowledge in Java assisted in developing a microcosm for this crypto currency project. He is the CEO of system Technologies, an IT firm that focuses on sales of internet data, and embedded systems. Although he is not erudite in blockchain technology but his contribution in using java to develop mobile demo apps which were used as sandboxes gave us a clearer understanding of what the entire system will be. We can assume him to be a pacemaker of this project.

**eDeposite Road Map**

1. **April 2018: eDeposite Demo Launched**

eDeposite Demo V1 designed with Java was launched and tested on a dedicated server. The demo was presented at Senate building to the Vice Chancellor University of Ilorin.

1. **March 2019: eData Mobile App was created as a sandbox**

eData Mobile App was developed as the first sandbox to test the efficiency of the eDeposite system. Three more Sandboxes were rolled outto test the connectivity strength and processing speed of the system, 4 successful transactions were processed per second and 11 unsuccessful transactions were discarded.

1. **October 2019: New Model released (Fantasy Prototype)**

eDeposite was completely transferred to blockchain technology system, merchants were deployed and transactions were performed by the general public.

1. **November 2020: ICO** **Tokens Public Crowdsale**
2. **February 2021: Official Launching**
3. **April 2021: Adding Network participants & Integration of Nodes**

Design and execution of crypto development hubs across the continent. Publishing software for nodes and integration across the continent.

1. **June 2021: Massive rolling out of use cases.**
2. **July 2021**: **Listed on Exchange:** eDeposite will be enlisted on global exchanger websites such as coinmarketcap and coingecko.
3. **August 2021: Verifying Local Exchanger**

Creating a webpage to list all verified local exchangers across the continent. This is to control ripping those who wish to convert eDeposite coins back to fiat currency.

1. **January 2022: Open Source, Release of Code on Stack Communities and Commissioning ICT Capacity Building Centers across Africa.**

The open-source model is a decentralized software-development model that encourages open collaboration

1. **March 2022: Trading Platform**

eDeposite will be added to crypto trading platform to create more investment opportunities for coin owners.

1. **July 2022: API Gateway Release for Mass Integration**
2. **Further Development and introducing more online uses of eDeposite**

**References**

1. **The State of Crypto: Africa** Page 5
2. **The State of Crypto: Africa** Page 6
3. **The State of Crypto: Africa** Page 11
4. **The State of Crypto: Africa** Page 12
5. <https://coincodex.com/article/5812/top-5-physical-asset-backed-cryptocurrencies/>
6. <https://coinmarketcap.com/> homepage
7. <https://www.coinlore.com/all_coins>
8. <https://news.bitcoin.com/a-guide-to-what-a-bitcoin-fork-is-and-why-they-happen/>
9. <https://www.un.org/africarenewal/magazine/may-july-2017/africa%E2%80%99s-quest-cashless-economy-gains-momentum#:~:text=About%2090%25%20of%20retail%20transactions,suggesting%20tantalizing%20potential%20for%20investors>.
10. <https://www.theafricareport.com/29360/mastercard-in-africa-our-biggest-competitor-is-cash/>
11. Blockchain Forks: A Formal Classiﬁcation Framework and Persistency Analysis Schär, Fabian. Center for Innovative Finance, University of Basel, Faculty of Business and Economics, University of Basel
12. The Ethics of Contentious Hard Forks in Blockchain Networks With Fixed Features. Tae Wan Kim Carnegie Mellon University and Ariel Zetlin-Jones.