

MANILA WHITEPAPER

THE CRYPTOCURRENCY OF THE PHILIPPINES



V1.0

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86% OF HOUSEHOLDS IN THE PHILIPPINES DO NOT HAVE BANKING ACCESS

EXECUTIVE SUMMARY

This whitepaper provides a solution to the unbanked problem of the Philippines. ManilaCoin is a cryptocurrency and application which can be used by anybody in the Philippines to replace the need to have a bank account. This application can be used to transact between individuals and between businesses and consumers. It is 100% secure, self-governing and does not rely on any interaction with an authoritative body or government. It is free to use, and scales with the size of its userbase.

This paper explains the ideas that govern the ManilaCoin network, and how it can be used as a replacement to the financial instruments not currently serving the needs of the people in the Philippines. ManilaCoin is also an educational gateway into the world of cryptocurrency, for the people of the Philippines. This whitepaper also discusses the benefits of using ManilaCoin over traditional systems of transaction.



INTRODUCTION

The emergence of cryptocurrencies and blockchain technology has triggered a revolution in business models, labour relations and financial transactions. It has sparked radical change to financial systems across the world by decentralising authority and empowering the users.

In 2018 the Philippines remains one of the world's most unbanked nations. With 30% of households having no access to a bank account. Security, transparency and speed of financial transactions between Filipinos is greatly restricted. The features and functions of the financial tools taken for granted in the west, are unavailable in unbanked nations like the Philippines, restricting virtually all facets of commerce and trade. By lacking the infrastructure to accommodate the wider population of the Philippines, the nation's people remain largely unbanked. The economic growth potential of the Philippines suffers due to its banking inadequacies. Unbanked persons and businesses lack the necessary security and infrastructure to manage their funds safely and easily. They are more difficult to fairly tax, and their accounts are less easily regulated, restricting the revenue and growth of the Philippines.

ManilaCoin provides the solution, by enabling the people of the Philippines to create their own financial infrastructure with a fair, self governing, decentralised network. ManilaCoin removes potentially malicious authority figures like banks and governments, and decentralising the way with which funds are stored and transacted. With Manila,

there is no need to trust an authority to do the moral thing with your funds. Funds are dealt with by the network as a whole. This removes the possibility for a government or hacker to steal or freeze your funds. ManilaCoin cannot be cheated, forged or tricked by a malicious agent. Rather, the network is governed by the idea of consensus by its participants. ManilaCoin solves the unbanked problem in the Philippines, by supporting virtually instantaneous transactions with very low transaction fees. It does not need banks or large establishments to function. It is powered and governed by its users' computers with cryptographically secure algorithms. The idea is that a large group of nodes working under laws of consensus cannot be influenced by less powerful malicious agents. This consensus model can be used for a scalable financial system, that cannot be compromised by a malicious party. It can be used by anyone, regardless of personal circumstance. Anyone with a smart phone and internet connection can transact with Manila.

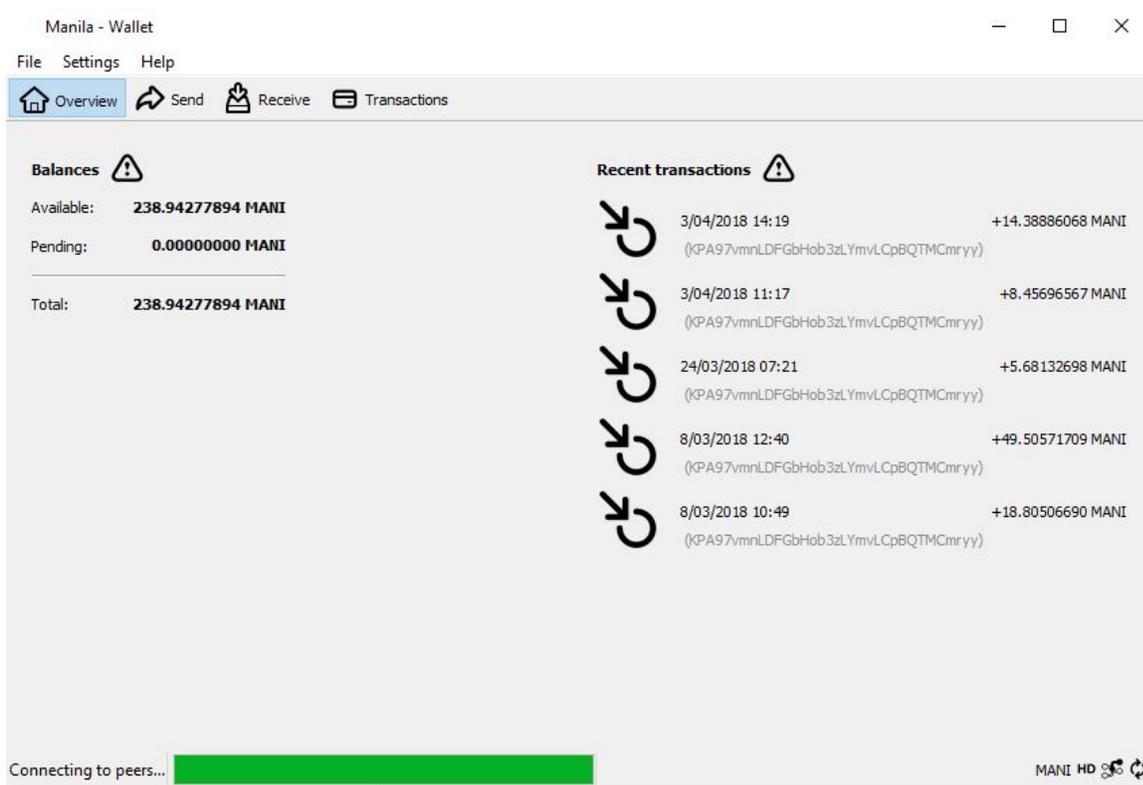
The world is shifting the core of its financial technology to adopt cryptocurrency and its blockchain architecture, and provide a solution to age-old problems in security, transparency, the distribution of wealth, transaction fees and transaction times. Manilacoin will transform the way people in the Philippines transact and store their personal funds. It solves all the problems inherent in the financial dealings of an unbanked nation. It is designed to support a large number of transactions at high speed, provide cheap transaction fees, and be highly robust against the attack of a government or malicious agent. It has a user-friendly wallet, and will be transactable on any smartphone.

Manilacoin is a cryptocurrency with all the robust features of the bitcoin blockchain. It was forked from the bitcoin source code in March 2018. The coin distribution is based on a proof of work system, which enables anyone with a computer and internet connection to generate coins for themselves.

It will enable the Philippines to smoothly adopt of a system of currency and fund management that improves on the traditional banking model. With Manila, Filipinos of any circumstance can securely and easily manage their funds without the interference of a central authority, like an immoral bank or government. This is because Manilacoin employs the same "trustless" paradigms for storing and transacting funds used by bitcoin. It does not require the permission of an external agent that could choose to act maliciously, such as a bank or government - it is governed by the consensus of the network as a whole, and hence has no single point of failure.

The world is currently experiencing the genesis of a new economic system, the pertinent question being “Who is going to end up with the money?”. Manilacoin strives to equalize financial opportunity to all Filipinos by introducing a new fair distribution of ManilaCoin coins with proof of work. Anyone can execute proof of work mining with their computer, or simply buy ManilaCoin from an exchange.. ManilaCoin will launch on a Filipino exchange and be available for mining and transacting through the exchange on day one. The software wallet it available at <https://Manilacoin.io/Manila-qt.exe>.

Manilacoin enables anyone to invest in the future of the Philippines by using the ManilaCoin blockchain. By rejecting the traditional banking system of the Philippines, users of Manilacoin enjoy increased assurance of the security of their personal funds, decrease costs to transact, and wider availability over time. In the near future, ManilaCoin will facilitate this new economy, enabling billions of smart devices to execute transparent financial transactions extremely efficiently, and without any human intervention.



(Manila-qt Windows Software Wallet. Transactions (Right), Balance (Left))



CORE OBJECTIVES

- Popularize the use of cryptocurrency in the Philippines, and fuel a revolution in the way that unbanked persons in the Philippines can securely and safely manage their funds.
- Develop the Filipino market for cryptocurrency. Cryptocurrency is an emerging technology, not yet well-established in the Philippines. The Philippines can benefit greatly from the adoption of cryptocurrency. ManilaCoin will be an exemplar for the standards of which cryptocurrencies are implemented for the good of developing and unbanked countries.
- Create a user-friendly, accessible mechanism by which all Filipinos can have the opportunity to participate and benefit from the cryptocurrency revolution. ManilaCoin is the solution to the lack of banking availability to many people in the Philippines. The ManilaCoin wallet is a lightweight financial instrument that requires minimal infrastructure to function completely. The network is self-sustaining and self-governing after launch. It is available for anyone to use.
- Dispatch a user-friendly mobile wallet application, to be used for day to day transactions between consumers and businesses, and individuals who use Manila. The intention of the application is to replace the need for a debit card. The mobile wallet application is the perfect candidate for remittance, supporting virtually instant international transactions.
- Meeting the needs of the Filipino population excluded from the conventional banking system. Smartphones are a widely adopted technology, used by the people of the Philippines in day to day living. By leveraging this established technology as the base for Manila's financial tool, anyone with a smartphone has the ability to transact and store funds safely.
- To be gradually accepted as a mainstream means of payment and storing wealth in the Philippines. As an asset of finite volume, the increased adoption of ManilaCoin as a financial instrument in the Philippines will increase its value and desirability over time.
- To be the cheapest and most effective option for transferring resources between people and companies in the Philippines. To achieve this, ManilaCoin has been designed to support a high number of transactions per second with a varying transaction fee that tends to be extremely low.

MANILA WHITEPAPER MAY 2018

- Provide a cheap and efficient exchange option between currencies of different fiduciaries of different nationalities. Cryptocurrency exchanges provide fast and discrete transactions between cryptocurrencies or cryptocurrency to fiat currency. ManilaCoin will be listed on a cryptocurrency exchange at the time of launch.

- To provide a highly secure and transparent tool for financial transactions. Transacting between ManilaCoin wallets provides cryptographic security at the cutting edge. Transactions between wallets are immutable and cryptographically secure.

Q 2 2018

- Launch Seed Servers for Manila
- Rollout Manila-Qt Beta wallet for public mining.
- Secure and test the network.
- Provide pool mining for ManilaCoin and GPU mining software.
- Rollout www.Manilacoin.io
- Community Channel Discord Launched and Moderated

Q 3 2018

- Release Stable Mac OSX Wallet
- Release ManilaCoin Whitepaper V1
- Launch Manilacoin to the cryptocurrency community via cryptocurrency forums
- List ManilaCoin on local exchange in the Philippines
- Begin mobile wallet development
- Launch Social Media Campaign for Manila
- Launch Round 1 Community Bounty Campaign

Q 4 2018

- Manilacoin Listed on International Exchanges
- Round 2 of Community Bounty Campaigns Launched
- ManilaCoin Mobile Wallet Alpha + Community Developers
- ManilaCoin Press Campaign



Q1 2019

- ManilaCoin Mobile Wallet Beta + Community Developers
- Greater Adoption of ManilaCoin Throughout Philippines
- List ManilaCoin on Decentralised Exchanges and International Exchanges

MINING

ManilaCoin employs a *proof of work* consensus method to facilitate the fair distribution of ManilaCoins over time. ManilaCoin mining is open to anyone with a computer and an internet connection. To mine, a ManilaCoin miner dedicates a portion of their computing resources to secure and verify transactions on the network. They are rewarded with ManilaCoins whenever the next set of transactions (a block), is verified by the team of miners (mining pool) whom they are mining with. The reward for mining ManilaCoin scales with the amount of computing resources used.

The algorithm used for ManilaCoin mining is known as HMQ1725. It is an algorithm that is highly resistant to dedicated mining hardware, that can skew the mining reward in the favour of wealthy miners. Instead the ManilaCoin mining algorithm favours personal computing hardware such as desktop computers. This choice was made to enable regular people from the Philippines with normal computers to benefit the most from mining Manila. Other cryptocurrencies such as bitcoin, have fallen prey to the development of specialised hardware known as ASIC miners, that decrease the efficacy of mining on normal computers. They do so by their design. An ASIC miner is incredibly efficient at mining a particular algorithm, because its hardware is a direct representation of the most efficient path needed to compute the chosen algorithm. Personal computers, on the other hand, are designed to complete a more complex array of tasks, and hence, require multiple layers of software abstraction which inevitably slow down computation.

The decision to choose the ASIC resistant algorithm HMQ1725 causes the mining of ManilaCoin to be more profitable for people in the Philippines who own regular computers, for longer. Another benefit to obfuscating the mining process so that ASIC miners are ineffective, is to fairly distribute the coin. ASIC resistant cryptocurrencies generally have a larger spread of coins through the community who uses it, rather than a few key miners who accrue all the coins.

Mining is available on a well-tested open source platform called CCMiner. CCminer is free, and used to mine most proof of work cryptocurrencies. It is a well documented and supported software platform that runs on most hardware and software configurations. In



a later version of the mining wallet, CCMiner will be implemented as part of the software suite provided by Manila.

COIN SPECIFICATION

ManilaCoin is a fork of the bitcoin source code. It provides all of the robust features of the bitcoin blockchain, with some modifications to cater to the needs of the Philippines' financial requirements. By forking the bitcoin core source code, ManilaCoin inherits all of the cryptographic security of the bitcoin network. The bitcoin network has a track record of remaining secure for over ten years. The ManilaCoin blockchain adopts the same cryptographically secure model and makes use of the same cutting edge security algorithms SHA256 and ECDSA. ManilaCoin also maintains the same level of transparency of the bitcoin blockchain, by ensuring that all the data flowing through the system is available on a public ledger.

TOTAL VOLUME

55,000,000 ManilaCoin will be in supply when the mining of the coin is completed.

BLOCK REWARD

90 to the miner of the block, 10 to the ManilaCoin fund

BLOCK TIME

10 Minutes

BLOCK RETARGET TIME

84 Blocks, 12 Hours

CONSENSUS ALGORITHM

HMQ1725, ASIC resistant proof of work algorithm. It is a composite of 17 different hashing algorithms, computed over 25 hash rounds.

RPC PORT



22719

ADVANTAGES

ManilaCoin provides a number of advantages and improvements to the current financial mechanisms available to the unbanked people of the Philippines. ManilaCoin provides a stable, reliable, secure and transparent system that requires no central authority or government, who could choose to act maliciously.

SECURITY

The ManilaCoin blockchain and wallet employs cutting edge cryptographic algorithms throughout the process of transacting and storing ManilaCoin. This provides enough security to ensure that transactions cannot be falsified, removed, or in anyway changed once they have been verified by the network.

TRANSPARENCY

All transactions and mining rewards are publicly viewable on the ManilaCoin explorer. The public is invited to police and inspect the ledger provided by the explorer. This ensures a high level of transparency in the transactions. All balances are also publicly available, but are not attached to any personal information about the owner of the coins.

ANONYMITY

The ManilaCoin network holds information on each account that stores or transacts ManilaCoin. It does not store any personal information of the individual users. This provides anonymity to those who wish to transact funds peer to peer. Should the threat of a malicious government emerge. Peer to peer trades of ManilaCoin through the ManilaCoin network will provide a great level of anonymity.

LOW FEES & LIGHTENING FAST TRANSACTIONS

The ManilaCoin network can support many transactions per second with it's 10 minute block time. Cheap feels will allow ManilaCoin to be used for day to day transactions in Manila.



FUNDING ALLOCATION

19% of the total volume of ManilaCoin will be premined by Online Blockchain. It will be used to fund the infrastructure, development, large bounties and marketing requirements of implementing such a large-scale project. This includes a reserve for future bounties and airdrops. The bounties and airdrops will be distributed to the participating community.

Online blockchain strives to implement continuous development through the adoption of ManilaCoin. To cover the high costs of this project, 10% of the ManilaCoin awarded for each block will be used by online blockchain to support the project and scale it as quickly as possible. The idea is to facilitate the adoption of ManilaCoin throughout the Philippines in the shortest possible time, rolling out a mobile wallet with a focus on quick integration.

ManilaCoin is a proof of work cryptocurrency, so the remaining 90% of the block reward will be awarded to the miner of the coin, or split between the participants of the pool who mined the block collectively.



TEAM DETAILS

ONLINE BLOCKCHAIN

Online blockchain is a leading blockchain development company from the UK. For many years, they have acted as an incubator and investor in internet projects. They have a long-standing track record of excellence in the internet industry, and provide support for multiple cryptocurrency startups.

OSCAR CHAMBERS

Oscar Chambers is a software engineer and cryptocurrency expert with a degree in computer science. He has lead development on numerous cryptocurrency and blockchain projects. Oscar also acts as an advisor on multiple cryptocurrency projects.

BARNEY CHAMBERS

Barney Chambers is a software engineer with years of experience in the finance and startup sector. Barney has a degree in computer science and a passion for all things cryptocurrency and blockchain.

CLEM CHAMBERS

Co-founder of ADVFN plc, All IPO plc and Online Blockchain Plc, Clem Chambers has been involved in the software industry for over 25 years as a pioneer of computer games, massively multiplayer games, multimedia and the internet.

ROB HENDERSON

Rob Henderson, a computer science graduate, began his career as a software engineer before moving into project management, business development and licensing. Rob programmed and managed software projects for over 30 years which include PC games, console games, multimedia apps and the Internet.

RESOURCES:

Banking information -

<http://datatopics.worldbank.org/financialinclusion/country/philippines>