RAPIDS

Whitepaper
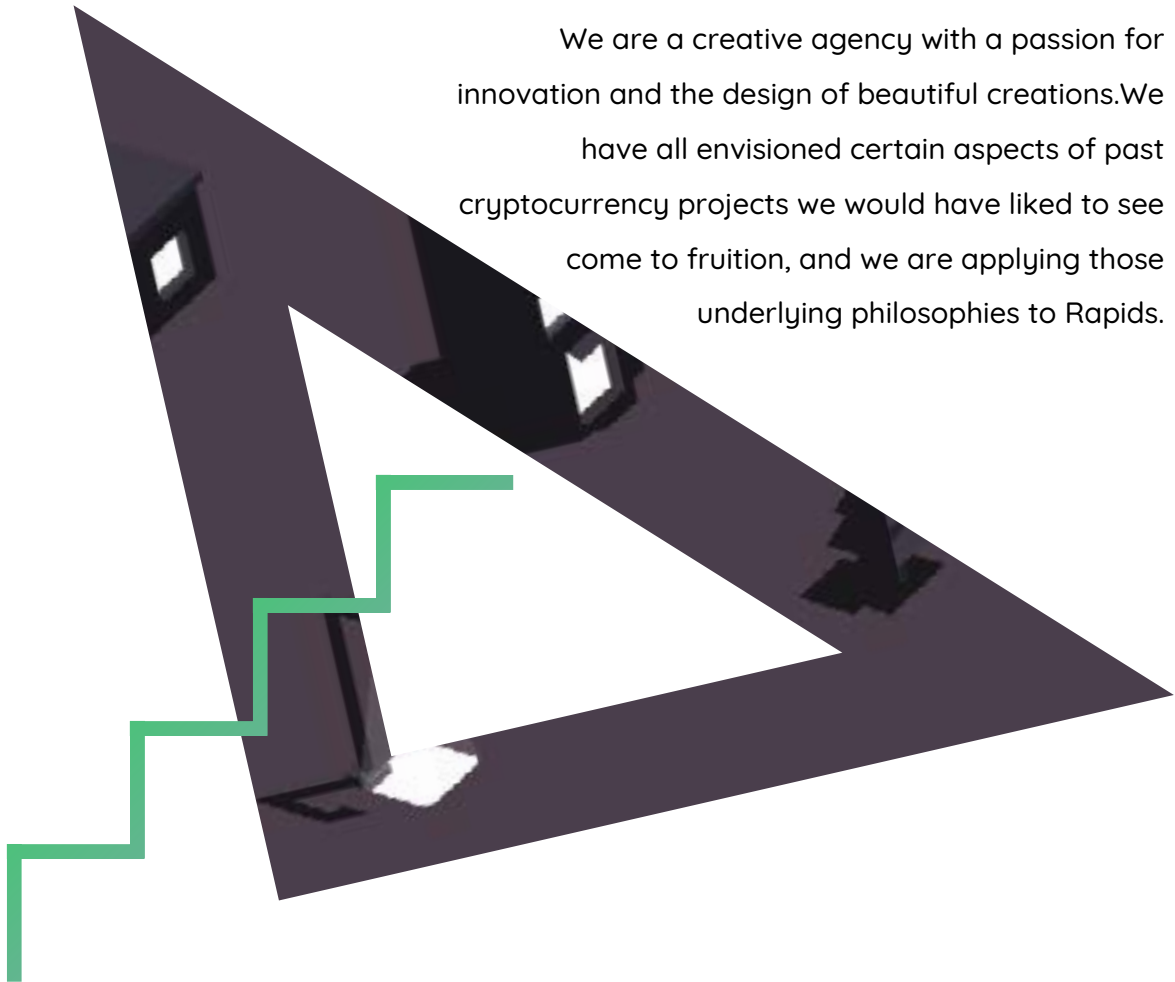
Ver. 2.3

Rapids

We are Rapids Network

We are a creative agency with a passion for innovation and the design of beautiful creations.We have all envisioned certain aspects of past cryptocurrency projects we would have liked to see come to fruition, and we are applying those underlying philosophies to Rapids.

Will you Run with Rapids?

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C O R E Y S T R O N G

F O U N D E R &
P R O J E C T M A N A G E R

We're Rapids! An Innovative Social Blockchain Project.

Social Media Networks have become the new medium of personal expression and conversation. Cryptocurrency and blockchain technology are also enriching our lives by altering the way we transact. Rapids aspires to make online transactions even more accessible by integrating technologies of social media with blockchain payments technology.

With Rapids embedded into social media platforms, we will be able to send and receive payments directly to friends, family, colleagues, companies, and anyone in between.

Follow us

VERISAFE APPROVED

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VeriSafe # 20180003

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Contents

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01 Vision & Mission

R A P I D S   N E T W O R K

Social Networking has been increasingly incorporated throughout our lives as technology progresses. More and more of our time is being spent in online environments, building relationships and conducting business. Alongside modern advances in Social Networks, Blockchain technology has recently been unveiled, providing digital financial systems which can benefit us while interacting online.

The underlying Blockchain Technology of Bitcoin (BTC) [1] has shown that our traditional financial systems can be altered to function through the deliverance of a new paradigm. The application and maintenance of a network comprised of an immutable, digital ledger supported by a consensus-driven mechanism have liberated the fields of individual finance and personal data. Modeled after Bitcoin's example, similar alternative cryptocurrencies continually expand the horizons of blockchain technology and its endless applications. With the combination of cryptocurrencies and the increase in popularity of Social Networking, sending payments across multiple platforms can be as simple as a few clicks of the mouse.

Rapids aims to conjoin the two advancing fields of Social Networking and Blockchain Technology through the utilization of Rapids coin. Rapids coin will enable the user to send money across all Social Media platforms and directly exchange cryptocurrency into fiat currency. Proprietary technology provided by Rapids development will support the use of cryptocurrency throughout all internet-enabled devices and platforms. With the introduction of Rapids coin, transacting online just became faster and more convenient.

SOCIAL NETWORKING
Adoption of cryptocurrency payments through ongoing development, ambassador program and online marketing.

TECHNICALS
Ensuring our coin fundamentals are both secure, fast and attractive to partners and investors.

PARTNERSHIPS
Ensuring our coin grows in the right direction for our intended segment adoption in the coming years.

USER EXPERIENCE
At the core of the Rapids brand and products is to ensure best-practice UX and Human-Centred principles are prevalent.

SUPPORT
Our aim is that Rapids users should never have a negative experience with Rapids.

GAMING INDUSTRY
Ongoing gamification, leaderboards, competition rewards and payments to be integrated into Gaming apps.
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02
Background

The origins of Social Media date back to not long after the introduction of the internet and the world wide web. Since then, Social Media has evolved, consistently improving with platforms such as Facebook and Instagram that have attracted considerable attention with 2016 estimates of over 1.79 billion and 500 million monthly active users, respectively [3].

The number of Social Media users continues to expand annually and along with them, comes profits. In 2017, Social Networks reported revenues of 41 Billion US Dollars [4]. This has demonstrated that the financial market for Social Media also multiplies in concert with the increase in the number of users. Rapids intends to capitalize on this lucrative market by introducing cryptocurrencies into the fold, allowing online peer-to-peer and business-to-business transactions in the quickest and most secure fashion.

Rapids development began from skilled and experienced cryptocurrency advocates from various backgrounds and multiple cryptocurrency projects. We have all previously worked on cryptocurrency projects and took that invaluable experience with us to incorporate within the development and coordination of Rapids.

Together we will ensure Rapids coin takes the fusion of cryptocurrency and Social Media to the next level by offering an easy-to-use system implemented throughout the online environments the world uses on a daily basis. Social networking sites are commonplace, and cryptocurrencies are gaining recognition throughout our more traditional financial markets. To fuse the two fields, we have launched Rapids – promoting direct transactions of cryptocurrency by making their use and applications manageable and convenient.

If you're not having fun,
you're doing it Wrong.

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03 User Experience

RAPIDS NETWORK

Our philosophy parallels the ideals of Social Networking sites by also focusing on personalized client-centric servicing within our Rapids ecosystems. We will foster best-practice experience principles and accessibility for all of the Rapids platform applications.
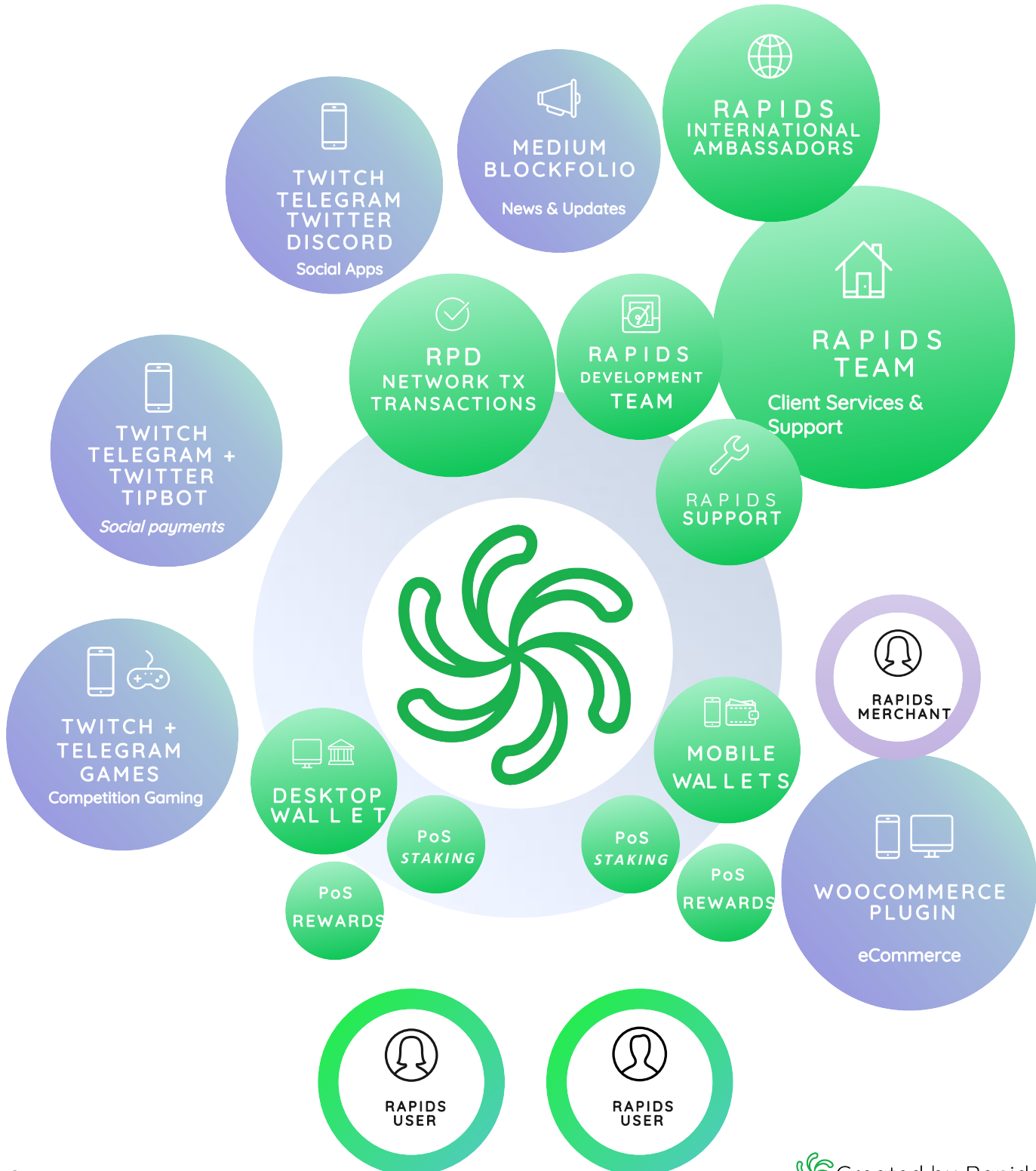
Social Networking enables the world to interact in various ways – sending private messages, posting essential events, marketing business materials, among many other things. Rapids users will have that very same experience with Rapids coin by presenting the capability to share and gift tokens amongst each other. Rapids coin will also benefit businesses by expediting the payment process across the blockchain.

Rapids allows users to send money to their friends, family, colleagues, companies or even anonymous individuals on social apps, plugins, and our official wallets. The speed of cryptocurrency transactions is apparent through their constant utilization and adoption and as this prevalence continues to broaden in the industry, Rapids will leverage the versatility of cryptocurrencies not only through permitting the exchangeability across Social Networking platforms but also through the interchangeability of Rapids coin into the fiat currency of your choice via Atomic Swap functionality.

Businesses will be able to purchase inventory or accept payments from customers within the same day, with nominal fees. By utilizing the Rapids Network, businesses or individuals no longer need to wait for a bank transaction to clear, similar to what is experienced with present-day wire transfers. Rapids coin offers direct and immediate payment to the recipient along with transparent transactions to verify those processes.

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03 User Experience - The Eco System

RAPIDS NETWORK

TWITCH
TELEGRAM
TWITTER
DISCORD
Social Apps

MEDIUM
BLOCKFOLIO
News & Updates

RAPIDS
INTERNATIONAL
AMBASSADORS

RPD
NETWORK TX
TRANSACTIONS

RAPIDS
DEVELOPMENT
TEAM

RAPIDS
TEAM
Client Services &
Support

RAPIDS
SUPPORT

TWITCH
TELEGRAM +
TWITTER
TIPBOT
Social payments

TWITCH +
TELEGRAM
GAMES
Competition Gaming

DESKTOP
WALLET

PoS
STAKING

MOBILE
WALLETS

PoS
STAKING

RAPIDS
MERCHANT

PoS
REWARDS

PoS
REWARDS

WOOCOMMERCE
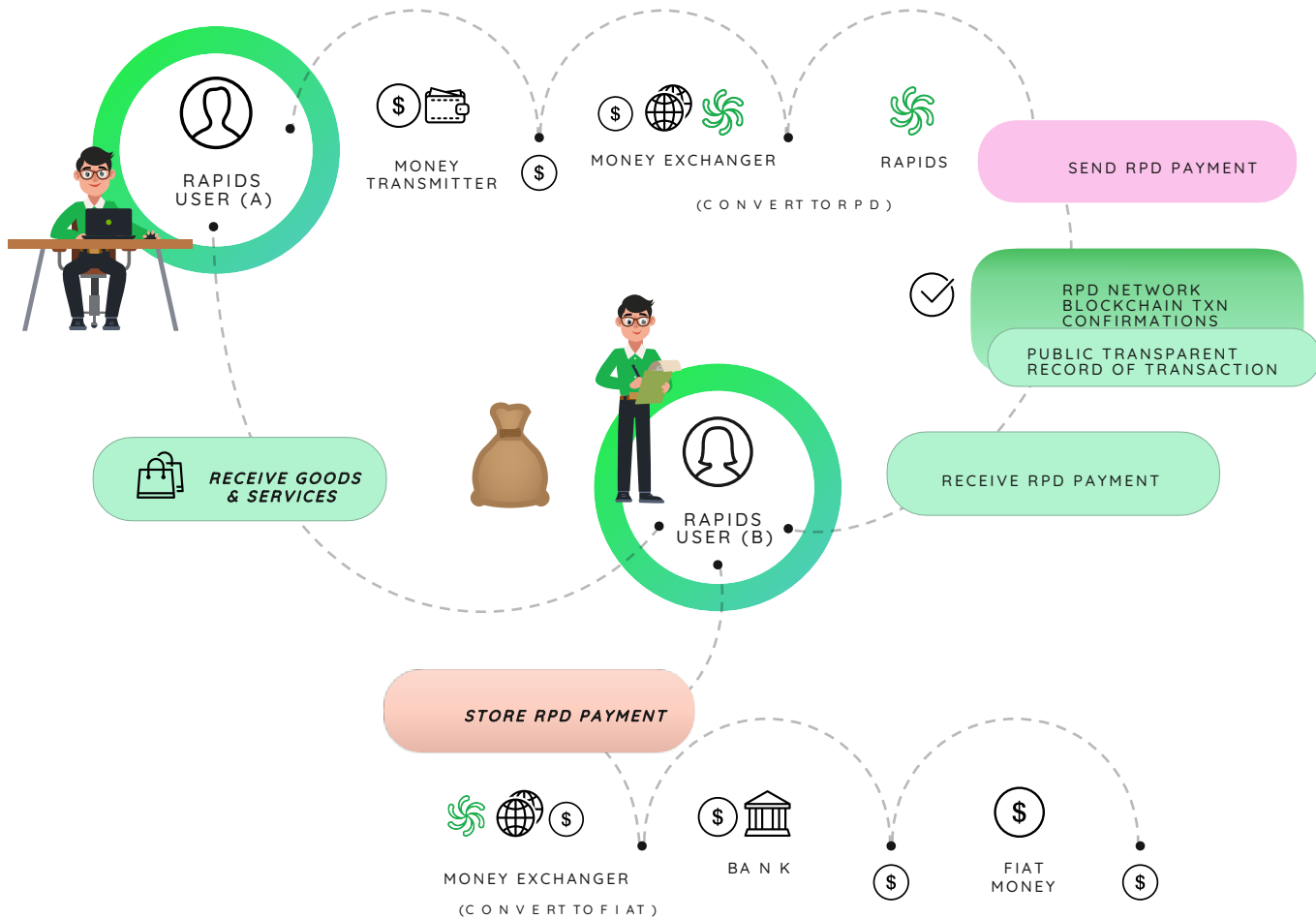PLUGIN
eCommerce

RAPIDS
USER

RAPIDS
USER

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04 Rapids Payment

RAPIDS NETWORK

A Rapids user sends a Rapids Coin (RPD) payment across the blockchain. The receiver obtains the sent funds in their Rapids wallet quickly and safely.

RAPIDS USER (A)

MONEY TRANSMITTER

MONEY EXCHANGER
(CONVERT TO RPD)

RAPIDS

SEND RPD PAYMENT

RPD NETWORK BLOCKCHAIN TXN CONFIRMATIONS

PUBLIC TRANSPARENT RECORD OF TRANSACTION

RECEIVE RPD PAYMENT

RECEIVE GOODS & SERVICES

RAPIDS USER (B)

STORE RPD PAYMENT

MONEY EXCHANGER
(CONVERT TO FIAT)

BANK

FIAT MONEY

Since Rapid payments are enabled upon Social Networking platforms, both parties only need the account name or handle of the other party instead of the standard yet complicated sending and receiving addresses associated with cryptocurrency payments. Rapids $RPD user experience assures Rapid payments are readily adopted and easily manageable.

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05
Technologies

RPD utilizes a two-tiered, energy efficient network that combines a Proof of Stake (PoS) protocol, for the creation of new blocks and the security of the network, and a Masternode network to enhance the stability, provide functionalities, and community-based governance.

Running a Masternode or Staking (pos) with Rapids has many benefits and rewards.

Each block creates new RPD which you can win for supporting our network, which is spendable within 6 confirmations! A great way to earn passive income on your holdings.
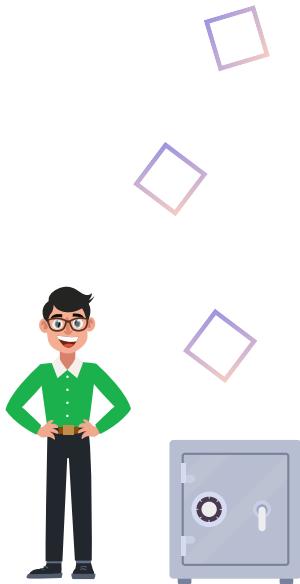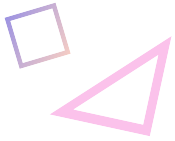
35% Staking
65% Masternode

Masternodes will enable holders to vote & submit ideas for improving the entire network and to have access to many benefits across our network; Rapids Host Platform and partnered exchanges including airdrops for trading and memberships.

Rapids

Blockchain At Your Fingertips

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06
Development

R A P I D S N E T W O R K

6.01 Rapids Key Features

Analogous to every other cryptocurrency project, the Rapids Development Team has begun working from the ground up. The initial stages of development are comprised of the foundational components required to launch a blockchain project.

Speed - Quick transactions across the blockchain

Security - QUARK algorithm

Fungibility - Exchangeable into other cryptocurrencies or fiat

Practicality - Used on existing Social Media platforms

6.01.1 Key Technologies

Rapids began as a token in the initial stages of development and has swapped to a stable, proprietary blockchain based on the QUARK algorithm.
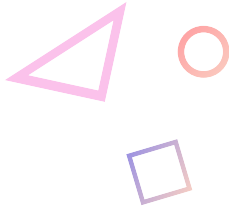
The QUARK algorithm, known for its security, consists of the following combination of 6 hash functions [5]:

- **Grostl**
- **Blue Midnight Wish**
- **Keccak**
- **JH**
- **Skein**
- **Blake**

The QUARK algorithm uses the above combination of hash functions in 9 layers of security with 64-bit protection, providing a secure and stable blockchain to host the Rapids network. This algorithm enables Proof of Stake and since it has a low demand on power, offers an exceptional model to not only maintain but also to build upon.

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06
Development

6.01.3 Blockchain fundamentals

The successful migration of the Rapids token to the Rapids QUARK blockchain established Rapids Coin as a PoS cryptocurrency.

Rapids has now adopted the Proof of Stake (PoS) consensus algorithm, providing paramount security from 51% attacks, possible through enhancements of the previous Proof of Work (PoW) protocol utilized by cryptocurrencies such as Bitcoin (BTC). Coupled with the added security offered by Proof of Stake, the PoS protocol is more readily adopted due to its simplicity.

Proof of Work requires expensive hardware, more computing power, and specialized technical knowledge based on computer hardware and hashing algorithms. Proof of Stake only requires a Rapids wallet and an internet connection, allowing the user to store Rapids within their wallet to support the Rapids network. By maintaining a positive balance within the Rapids wallet, the user's balance assists in validating transactions upon the blockchain and therefore, earns block rewards.

Proof of Work is also more centralized in nature as the miners with the most equipment will obtain the most rewards and therefore, have control over the majority of the network. Proof of Stake distributes block rewards in a more balanced fashion, producing a decentralized network. For these reasons, the Rapids Team has adopted a Proof of Stake consensus mechanism for the Rapids blockchain which comprises a two-tiered reward model. Further information regarding the function of the Proof of Work (PoW) and Proof of Stake (PoS) consensus algorithms can be located within the Bitcoin and Ethereum [2] White Papers, respectively.
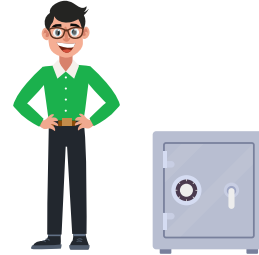
6.02 Proof of Work vs. Proof of Stake

PROOF OF WORK IS A PROTOCOL WITH DIFFICULT AND TIME-CONSUMING PROBLEMS TO SOLVE.

PROOF OF STAKE REQUIRES USERS TO HOLD COINS WITHIN THEIR WALLET TO MINT NEW COINS.

THE MINER WHO SOLVES THE PROBLEM IN A BLOCK RECEIVES A REWARD.

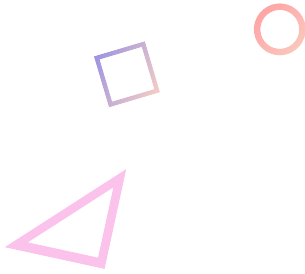*WALLETS WHICH ARE STAKING COINS COMPRISE THE BLOCKCHAIN NETWORK.*

MINERS ATTEMPT TO SOLVE THE BLOCK PROBLEMS AND THEREBY MAKE UP THE BLOCKCHAIN NETWORK.

PROOF OF STAKE REQUIRES NO SPECIALIZED HARDWARE MAKING IT COST-EFFECTIVE AND RESISTANT TO 51% ATTACKS.

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06
Development

06.03 Masternodes outline

As the swap strategy from the original RPD ERC20 token was altered to support the QUARK algorithm, the Rapids team deployed another network security feature that will offer an additional incentive for the community: Masternodes. Masternodes provide enhanced security for the blockchain through the use of decentralized governance and allows for auxiliary features to be enabled such as voting systems, instant transactions, and even privacy implementations after subsequent development. Participating nodes (individuals) of the network have the added incentive of a percentage of the block rewards in exchange for supporting the many factors established with a Masternode-driven network. This will ensure compliance throughout the network to maintain the security of the Rapids blockchain.

In order to be an owner of a Rapids Masternode, collateral of 10M RPD is required to operate a node. The reward distribution of the block rewards is based on a fluctuating structure to incite participation in the assurance of the network.

The following specifications provide details of the blockchain model

The following reward model displays block reward proportions:

Masternodes	65%
Staking	35%

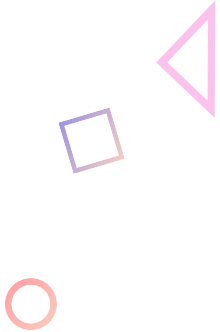### Coin Specifications

Block Time	60 Seconds
Max Coin Supply	35,000,000,000 (5 Billion coin burn in 2020)
Premine	20,000,000,000
Masternode Collateral	10,000,000
Reward Rate Per Block	MN 65% POS 35%
Halving Cycle	4 years (2102400 blocks)
Coin Staking Age	75 Confirmations

Reward Distribution

Block Height	Reward per block
1	20,000,000,000 RPD
2 – 2102401	3210.6168 RPD
2102402 – 4204801	1605.3084 RPD
4204802 – 6307201	802.6542 RPD
6307202 – 8409601	401.3271 RPD
8409602 – 10512001	200.66355 RPD
10512002 – Infinite	100.331775 RPD

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06
Development

2019-2020 Milestone Goals

As the Rapids Mainnet migration enables access to more development features, the Rapids Team will focus on the next stages of development. These subsequent stages of development include the Rapids Atomic Swaps, Web Browser Widgets integration, Mobile app, and Visa Debit card distribution. Their future implementation will allow Rapids coin users to perform fungible, immutable operations.

- **Rapids Atomic Swaps** – provides a means of swapping fiat currency for Rapids or obtaining Rapids from fiat currency.

- **Web Browser Widgets** – allow the user to interact with Rapids within online environments.

- **Mobile app** – Perform the same functions on mobile devices – transact with Rapids across Social Media & hold Rapids within the mobile-enabled wallet.

- **Visa Debit card** - The issuance of Visa Debit cards to Rapids users will be gratis, provided the user has retained Rapids within their account.

Rapids Adoption.

Rapids integration throughout Social Media Networks will incite the establishment of the Rapids platform in three stages:
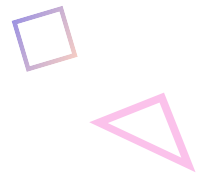
STAGE 1 - Propel network and user adoption for the Rapids platform.

STAGE 2 - Enable Wallet & Mobile app to swap Rapids into fiat currency.

STAGE 3 - Develop rewards and benefits for Rapids users.

07 Roadmap

Q1 2020

RAPIDS NETWORK 2.0 (Upgrade)

- Implement higher staking & Masternode rewards

  ✔ Completed - May 2020
- Increase in transaction speed

  ✔ Completed - May 2020
- Bringing extra security to the network

- Implement a 5 Billion RPD burn bringing more value & Liquidity to the network

Q2 2020

RAPIDS MOBILE WALLET RELEASE

✔ Completed - July 2020

- Rapids Tipbot Upgrade and Rebrand

- Allowing public integrations on the biggest platforms!

- Atomic swaps

- Purchase RPD via Card payments

  ✔ Completed - Mar 2020

Q3 2020

POPULAR EXCHANGE LISTING

- Heavy Marketing campaign, Promoting our rebranded tipbot, mobile wallet and network

- Listing on a popular top exchange, Poloniex, Bittrex, Binance, Coinbase etc.

Q4 2020

DEBIT CARD PARTNER

- Source and work closely with a debit card partner, Crypto.com & spend for example which will allow the spending of RPD in stores at any visa POS machine or ATM
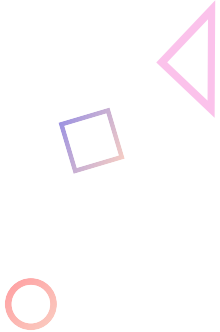
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07
Roadmap
RAPIDS NETWORK

2019

MASTERNODE PARTNERSHIPS
- SetupMasternodes.com

✔ Completed - December, 2018

DEVELOP & IMPLEMENT TIPBOTS

- **Telegram Tipbot** ✔ Completed - December, 2018
- **Discord Tipbot** ✔ Completed - December, 2018
- **Twitch Tipbot** ✔ Completed - February, 2019
- **Twitter Tipbot** ✔ Completed - March, 2019

RELEASE NEW WEBSITE V2

- Develop a multi-page, SEO friendly and responsive website

✔ Completed - December, 2018

ESTABLISH INITIAL PARTNERSHIPS

- Create strategic partners with long-term vision

✔ Completed - April, 2019

GET LISTED ON HIGH VOLUME EXCHANGES

- P2pb2b

✔ Completed - August, 2019

ALTERNATIVE WALLET DEVELOPMENT

- UI UX Design of Mobile wallets

✔ Completed - May - June, 2019

STRATEGIC WALLET PARTNERSHIPS

- Create strategic partners for external integrated wallets with long-term vision

✔ Completed - May - June, 2019

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08
Conclusion

In this paper, we have presented the concept of Rapids integration throughout Social Media networks and online environments. The preliminary stages of Rapids development have concluded with the swap from an ERC20 - based smart contract to the host Rapids blockchain based on the QUARK algorithm. Exchanges have expedited the swap and the Quark algorithm with the Proof of Stake consensus algorithm are now active.

The primary goal of Rapids is to integrate a secure, easy-to-use cryptocurrency within the social platforms that we use daily. Once adoption of Rapids has expanded, Visa Debit cards will be issued to Rapids holders to enable them to use their Rapids anywhere that accepts Visa. The merging of Social Media Networks and blockchain technology will forge the underlying technology of Rapids and permit its use in the most straightforward fashion by allowing users to transact almost effortlessly.

Blockchain development has led to the integration of Masternodes to assist in the maintenance and security of the blockchain.

The Rapids Masternode model has also afforded extra incentives for community participation in the network through a percentage of the block rewards. With these components established, the integrity of the Rapids blockchain is readily structured.

This whitepaper has been presented as the preliminary technology paper for the Rapids project. Updates to this technology paper will be a continual process as the project continues to develop and achieve the goals demonstrated in this whitepaper. Join the Rapids community through our Social Media presence to receive project announcements and updates.

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Disclaimer

RAPIDS NETWORK

This whitepaper has been presented for the sole purpose of informing potential Rapids (RPD) users and potential contributors to the Rapids platform. This document is a non-binding whitepaper and produces no contractual obligations for any person. The Rapids team does not accept legal liability in any form or fashion, in connection with the reliability, thoroughness, preciseness, or currency materials presented within this whitepaper.

This whitepaper was created for informational purposes only and does not constitute legal trading advice. Investors and potential Rapids users should consult professional, legal advice before investing or completing any transactions utilizing Rapids based on information displayed in this whitepaper. This whitepaper is not a solicitation to purchase Rapids or invest in the Rapids platform.

The Rapids team reserves the right to abandon and modify the Rapids platform or alter the implementation of Rapids revealed in this whitepaper at any time and for any reason. Potential users and prospective investors of Rapids and the Rapids platform are advised to contribute, invest, and/or participate at their own risk.

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References

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[2] Ethereum: A Next Generation Smart Contract and Decentralized Application Platform. Available from https://github.com/ethereum/wiki/wiki/White-Paper

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