ABSTRACT

BRICS BRC Coin is an innovative digital asset built on the TRON blockchain network, aimed at fostering financial inclusion and economic empowerment within the BRICS nations (Brazil, Russia, India, China, and South Africa) and beyond. Leveraging the speed, scalability, and efficiency of the TRON network, BRICS BRC Coin seeks to overcome traditional financial barriers, facilitate seamless cross-border transactions, and drive sustainable growth in emerging markets. This white paper outlines the vision, technology, features, and tokenomics of BRICS BRC Coin, presenting a transformative solution for a more inclusive and connected global economy.

A digital token backed by BRICS currency provides individuals and organizations with a robust and decentralized method of exchanging value while using a familiar accounting unit. The innovation of blockchains is an auditable and cryptographically secured global ledger. Asset backed token issuers and other market participants can take advantage of blockchain technology -, along with embedded consensus systems, to transact in familiar, less volatile currencies and assets. In order to maintain accountability and to ensure stability in exchange price, we propose a method to maintain a one-to-one reserve ratio between a cryptocurrency token, called $BRICS, and its associated real-world asset, BRICS currency. This method uses the blockchain, Proof of Reserves, and other audit methods to prove that issued tokens are fully backed and reserved at all times.

INTRODUCTION

BRICS is an acronym for five leading emerging economies; Brazil, Russia, India, China, and South Africa. The first four were initially grouped as "BRIO" (or "the BRICs") in 2001 by Goldman Sachs economist Jim O'Neill, who coined the term to describe fast-growing economies that would collectively dominate the global economy by 2050; South Africa was added in 2010.

Introducing BRICS Chain which in 1 phrase describes itself as "BRICS on The Blockchain". We believe the Bitcoin blockchain is a better technology for transacting, storing, and accounting for these assets. There exists a vast array of crypto-assets in the world which people freely choose as a store of value, a transactional medium, or an investment.

Cryptocurrency (Bitcoin) was created as "an electronic payment system based on cryptographic proof instead of trust, allowing any two willing parties to transact directly with each other without the need for a trusted third party."[2]. Bitcoin, Ethereum, etc created a new class of digital currency, a decentralized digital currency or cryptocurrency.

Some of the primary advantages of cryptocurrencies are: low transaction costs, international borderless transferability and convertibility, trustless ownership and exchange, pseudo anonymity, real time transparency, and immunity from legacy banking system problems [3].

This means that the BRIGS Chain is going to be pegged to the BRICS fiat currency and all exchanges and wallets which will allow you to hold BRICS Chain currency will provide a similar service in that users can avoid the volatility (or other traits) of a particular cryptocurrency by selling them for BRICS Chain, gold, or another asset.

Further, almost all types of existing financial institutions, payment providers, etc, which allow you to hold fiat value (or other assets) subsequently provide a similar service. In this white paper we focus on applications wherein the value of BRICS Chain is stored and transmitted with software that is open source, cryptographically secure, and uses distributed ledger technology, i.e. a true cryptocurrency.

While the goal of any successful cryptocurrency is to completely eliminate the requirement of trust, each of the aforementioned implementations either rely on a trusted third party or have other technical, market based, or process based drawbacks and limitations.

• BRC exist on stable TRON blockchains, later it's own network rather than a less developed/tested "altcoin" blockchain nor within closed source software running on centralized, private databases.

• BRC can be used just like any other cryptocurrency, i.e. in a p2p, pseudo anonymous, decentralized, cryptographically secure environment.

• BRC can be integrated with merchants, exchanges, and wallets just as easily as any of other cryptocurrencies can be integrated.

• BRC inherit the properties of the TRON Network protocol which include: a decentralized exchange; browser based, open source, wallet encryption; blockchain based transparency, accountability, multi-party security and reporting functions.

• BRICS Chain employs a simple but effective approach for conducting Proof of Reserves which significantly reduces our counterparty risk as the custodian of the reserve assets.

• BRC issuance or redemption will not face any pricing or liquidity constraints. Users can buy or sell as many BRC as they want, quickly, and with very low fees.

• BRC will not face any market risks such as Black Swan events, liquidity crunches, etc as reserves are maintained in a one-to-one ratio rather than relying on market forces.

• BRC one to one backing implementation is easier for non-technical users to understand as opposed to collateralization techniques or derivative strategies.

At any given time, the balance of fiat currency held in our reserves will be equal to (or greater than) the number of SBRICS in circulation. This simple configuration most easily supports a reliable Proof of Reserves process; a process which is fundamental to maintaining the price parity between SBRICS in circulation and the underlying fiat currency held in reserves. In this paper we provide evidence that shows exchange and wallet audits (in their current state) are very unreliable (i.e. flaws in Proof of Solvency [6] methods) and instead propose that exchanges and wallets outsource the custody of user funds to us via BRC.

Users can purchase BRC from https://bricstechnology.io/ (our web wallet) or from supported exchanges who support BRC as a deposit and withdrawal method. Users can also transact and store BRC on any TRON Network Blockchain of course using bridges to migrate from one network to another. Other exchanges, wallets, and merchants are encouraged to reach out to us about integrating BRICS as a surrogate for traditional fiat payment methods.

We recognize that our implementation isn't perfectly decentralized since BRICS Chain must act as a centralized custodian of reserve assets (BRC in circulation exist as a decentralized digital currency). However, we believe this implementation sets the foundation for building future innovations that will eliminate these weaknesses, create a robust platform for new products and services, and support the growth and utility of the blockchain technology over the long run.

TECHNOLOGY STACK AND PROCESSES

BRICS BRC Coin is built on the TRON blockchain, a leading decentralized platform known for its scalability, high throughput, and low fees. The TRON network utilizes a delegated proof-of-stake (DPoS) consensus mechanism,

ensuring fast transaction confirmation and network reliability. Smart contracts deployed on the TRON network enable programmable and transparent transactions, facilitating a wide range of financial services and applications.

Each BRICS issued into circulation will be backed in a one to one ratio with the equivalent amount of corresponding fiat currency held in reserves by BRICS Chain, As the custodian of the backing asset we are acting as a trusted third party responsible for that asset.

This risk is mitigated by a simple implementation that collectively reduces the complexity of conducting both fiat and crypto audits while increasing the security, provability, and transparency of these audits.

Here is a review of each layer;

The TRON Network Blockchain: Serves as the blockchain hosting the BRICS Chain smart contracts.

Clients: These are users who own custodial wallets and non-custodial wallets, both

Proof of Reserves Process

Proof of Solvency, Proof of Reserves, Real Time Transparency, and other similar phrases have been growing and resonating across the cryptocurrency industry.

Exchange and wallets audits, in their current form, are very unreliable. Insolvency has occurred numerous times in the cryptocurrency ecosystem, either via hacks, mismanagement, or outright fraud. Users must be diligent with their exchange selection and vigilant in their use of exchanges. Even then, a savvy user will not be able to fully eliminate the risks. Further, there are exchange users like traders and businesses who must keep non trivial fiat balances in exchanges at all times. In financial language, this is known as the "counterparty risk" of storing value with a third party.

We believe it's safe to conclude that exchange and wallet audits in their current form are not very reliable. These processes do not guarantee users that a custodian or exchange is solvent. Although there have been great contributions to improving the exchange audit processes, like the Merkle tree approach, major flaws still remain.

BRICS Chain's Proof of Reserves configuration is novel because it simplifies the process of proving that the total number of BRC in circulation (liabilities) are always fully backed by an equal amount of fiat currency held in reserve (assets). In our configuration, each BRC in circulation represents 1 BRICS held in our

reserves (i.e. a one to one ratio) which means the system is fully reserved when the sum of all BRC in existence (at any point in time) is exactly equal to the balance of BRICS held in our reserve. Since BRC live on the blockchain, the provability and accounting of SBRICS at any given point in time is trivial.

Conversely, the corresponding total amount of BRICS held in our reserves is proved by publishing the bank balance and undergoing periodic audits by professionals. Find this implementation further detailed below:

• BRICS Chain issues all BRC via an TRON Network protocol as smart contracts. Smart contracts run on the blockchain and therefore all issued, redeemed, and existing BRC,

including transactional history, are publicly auditable via the tools provided at the respective TRON Networks scan page.

• Each BRICS token will only exist on one network at any given time. This means the amount of $BR1CS in circulation is the sum of BRICSon all networks issued by BRICS Chain.

• BRICS Chain which will receive and send fiat currency to users who purchase/redeem tie BRICS directly with us.

• Each BRICS issued will be hacked by the equivalent amount of currency unit (one BRICS equals one BRICS). By combining the above crypto and fiat accounting processes, we conclude the "Solvency Equation" for the BRICS System.

MAIN APPLICATIONS

In this section we'll summarize and discuss the main applications of BRICS across the block chain cryptocurrency ecosystem and for other consumers globally. We break up the beneficiaries into three user groups: Exchanges, Individuals, and Merchants.

The main benefits, applicable to all groups:

• Properties of cryptocurrency bestowed upon other asset classes.

• Less volatile, familiar unit of account.

• World's assets migrate to the cryptocurrency blockchain.

For Exchanges

Exchange operators understand that accepting fiat deposits and withdrawals using legacy financial systems can be complicated, risky, slow, and expensive. Some of these issues include:

• Identifying the right payment providers for your exchange

• Irreversible transactions, fraud protection, lowest fees, etc.

• Integrating the platform with banks who have no APIs.

By offering BRICS, an exchange can relieve themselves of the above complications and gain additional benefits, such as:

•Accept crypto fiats as deposit/withdrawal/storage method rather than using a legacy bank or payment provider.

• Allows users to move fiat in and out of exchange more freely, quickly, cheaply.

• Outsource fiat custodial risk to BRICS Chain just manage cryptos.

• Easily add other pegged fiat currencies as trading pairs to the platform.

• Secure customer assets purely through accepted crypto processes.

• Multi signature security, cold and hot wallets, HD wallets, etc

• Conduct audits easier and more securely in a purely crypto environment

• Anything one can do with cryptocurrencies as an exchange can be done with BRICS.

Exchange users know how risky it can be to hold fiat currencies on an exchange. With the growing number of insolvencies events, it can be quite dangerous. As mentioned previously, we believe that using BRICS exposes exchange users to less counterparty risk than continually holding fiat on exchanges. Additionally, there are other benefits to holding BRICS, explained in the next section.

FOR INDIVIDUALS

There are many types of individual cryptocurrency users in the world today, like;

• From traders looking to earn profits daily.

• To long term investors looking to store their cryptocurrency securely.

• To tech savvy shoppers looking to avoid credit card fees or maintain their privacy.

• To philosophical users looking to change the world.

• To those looking to remit payments globally more effectively.

• To those in third world countries looking for access to financial services for the first time.

• To developers looking to create new technologies.

• To all those who have found many uses for cryptocurrencies.

For each of these individuals, we believe BRICS are useful in similar ways, like:

• Transact in BRICS/fiat value, pseudo anonymously, without any middlemen/intermediaries.

• Cold store BRICS/fiat value by securing one's own private keys.

• Avoid the risk of storing fiat on exchanges move crypto fiat in and out of exchanges easily.

• Avoid having to open a fiat bank account to store fiat value.

• Easily enhance applications that work with cryptocurrencies to also support BRICS.

• Anything one can do with a cryptocurrency as an individual one can also do with BRICS.

FOR MERCHANTS

Merchants want to focus on their business, not on payments. The lack of global, inexpensive, ubiquitous payment solutions continues to plague merchants around the world both large and small. Merchants deserve more. Here are some of the ways BRICS can help them:

• Price goods in BRICS/flat value rather than other cryptocurrencies (no moving conversion rates/purchase windows).

• Avoid conversion from other cryptocurrencies to BRICS/fiat and associated fees and processes.

• Prevent chargebacks, reduce fees, and gain greater privacy.

• Provide novel services because of fiat crypto features.

Micro tipping, gift cards, more.

Anything one can do with other cryptocurrencies as a merchant one can also do with BRICS.

FUTURE INNOVATIONS

Multi Sig

Own Blockchain

Proof of Solvency Innovations Improve Privacy •

CONCLUSION

BRICS constitutes the first TRON based fiat pegged crypto currencies in existence today. BR1CS is based on the TRON blockchain, one of the most secure and well tested blockchain and public ledger in existence. BRICS are fully reserved in a one-to-one ratio, completely independent of market forces, pricing, or liquidity constraints. $BRICS has a simple and reliable Proof of Reserves implementation and undergoes regular professional audits. Our underlying banking relationships, compliance, and legal structure provide a secure foundation for us to be the custodian of reserve assets and issuer of $BRICS. Our team is composed of experienced and respected entrepreneurs from the cryptocurrency ecosystem and beyond.

Since we are focused on making BRICS Chain better every day this white paper my be subjected to updates. We are also making arranging integrations with existing businesses in the cryptocurrency space. Business like exchanges, wallets, merchants, and others. Please reach out to us at support@bricstechnology.io.