

Author Note

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1. Abstract

Bitcoin is the Internet of Money and Ethereum is the Internet of Software SIX is the Internet of Digital Services, providing decentralized solutions for all kinds of transactions in the digital and creative economies

A blockchain is a way to keep records of transactions or exchanges of data without relying on a central authority. Multiple users maintain a copy of the ledger and must come to agreement on any new additions by following a protocol called a consensus mechanism, which makes it hard for anyone to make fraudulent changes. But beyond these basic ingredients, they often have little in common. The kind of data they share, consensus mechanisms, network designs, and a host of other characteristics vary wildly depending on what they're used for. While this diversity of approaches means blockchains can be tailored for a wide range of applications from monitoring industrial equipment to hosting smart contracts that automate insurance payouts it also means they struggle to share information. However, to implement the blockchain as production with high performance and lower fee is very complicated. This paper is proposed Chainsquare which is the permission blockchain to provide the network for users and business partners. By using this Blockchain, the eco-system will be growth up by itself such as: developing Dapps by developers, Digital assets exchange, Card-less (POS) ... etc,

Keywords: Permissioned, Blockchain, POA, Consensus

2. Introduction

2.1 Permissioned Blockchain

Blockchain is a trending new field in both computer science and economics and other use cases than cryptocurrencies are on the new technology. Permissioned blockchains are one instance of the blockchain technique. In a permissioned blockchain the nodes which validates new transactions are trusted lines. Permissioned blockchains and distributed databases are essentially two different ways for storing data.

2.2 Statement of Problem

The complexity of managing the payment in the digital assets such as marketplaces or digital publishing platforms, POS [1] (Point of Sell) usually have their own internal point-and-coin economies, which are designed to transfer revenue streams/rewards from end consumers directly to customers in the same normal economies. Although such economies are designed for more operational cash flow in the platform intermediaries, these intermediaries have to deal with high payment processing fees on both ends (i.e., transaction fees are deducted from the amount paid by end users and the payments made to creative workers). These costs can be as much as 30% or more of the transaction amounts. As two of the most popular cryptocurrencies, Ethereum and Bitcoin have had their share of problems over the years. Here are some of the main issues that have plagued both platforms:

1. Scalability: One of the biggest challenges facing both Ethereum and Bitcoin is scalability. Both platforms have struggled to handle a large number of transactions, which has resulted in slow transaction times and high fees. This has made it difficult for both platforms to achieve widespread adoption.
2. Security: While both Ethereum and Bitcoin are considered to be secure, they have both been subject to high-profile hacks and security breaches. This has raised concerns about the overall security of the platforms and has led to calls for more robust security measures.
3. Centralization: Both Ethereum [2] and Bitcoin [3] have faced criticism for being too centralized. In the case of Bitcoin, a small number of miners control a large percentage of the network's

computing power, which has raised concerns about the potential for a 51% attack. In the case of Ethereum, the platform's governance structure has been criticized for being too centralized, which has led to concerns about the platform's long-term viability.

4. Energy Consumption: Both Ethereum and Bitcoin require significant amounts of energy to maintain their networks. This has led to concerns about the environmental impact of these platforms and has raised questions about their sustainability.

5. Adoption: While both Ethereum and Bitcoin have gained significant traction over the years, they still face challenges when it comes to widespread adoption. Many people are still skeptical of cryptocurrencies, and there are still many barriers to entry for those who want to use these platforms.

Overall, while Ethereum and Bitcoin have both been successful in many ways, they still face significant challenges that need to be addressed in order for them to achieve their full potential.

3. What's Chainsquare ?

Chainsquare [4] is the infrastructure of the Permissioned Blockchain ecosystem by allowing users to develop decentralized applications with a lower transaction fee, fast confirmation time, and transparency.

Services:

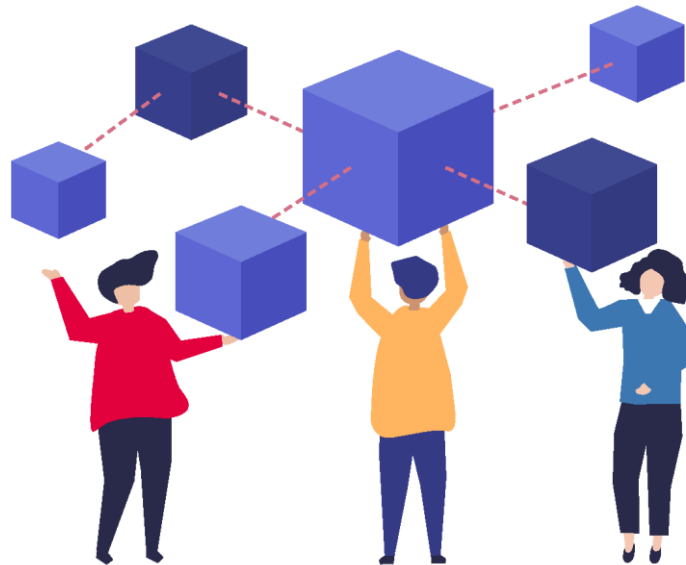
- Provide Eco-system with Blockchain (Chainsquare 's Network) to create trust and transparency regarding data and can be used in an array of compelling applications.
- Aquila Rift (Testnet)
- A blockchain consultant analyzes, develops, and tests blockchain technologies.
- Plasma Bridge (Multi-Chain Bridge Token)
- NFT Marketplace for real E-commerce
- Zero-Card Solution.
- Web3 and Smart contract development.
- Crowdfunding System.
- Real estate.
- AI-Blockchain (Davica CyberBrain)

3.1 Blockchain

Chainsquare is one such Blockchain that has gained considerable popularity in recent times.

Chainsquare is a Testnet for Ethereum POA that operates on the Network IDs below:

- Chainsquare Mainnet: 9888 [5]
- Chainsquare Aquila Rift (Testnet): 5888 [6]

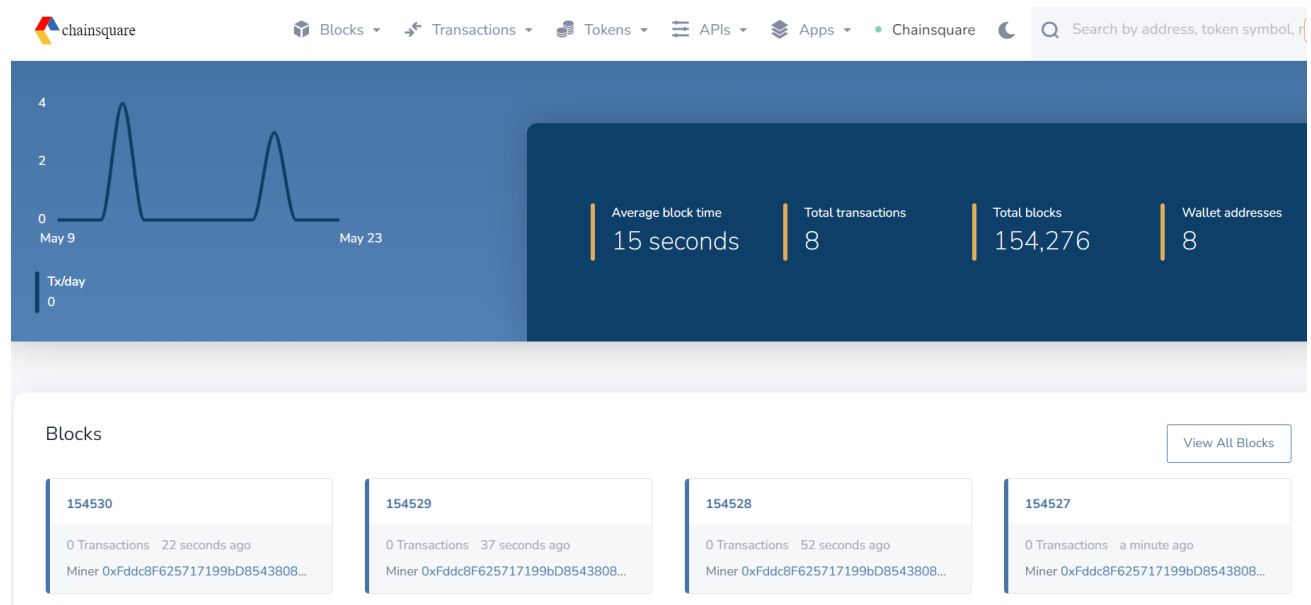


Chainsquare Blockchain Mainnet

It provides a secure and reliable testing environment for developers to test their decentralized applications and smart contracts before deploying them on the mainnet. The Testnet is an essential tool for developers to ensure that their applications are bug-free and function seamlessly on the Ethereum POA network. One of the key features of Chainsquare is its explorer, which can be accessed at <https://explorer.chainsquare.la> and <https://testnet.chainsquare.la/>

The explorer provides developers with an easy-to-use interface to view transaction details, contract details, and other information related to the Ethereum POA network. The explorer is easy to navigate, and developers can quickly find the information they need to test their applications.

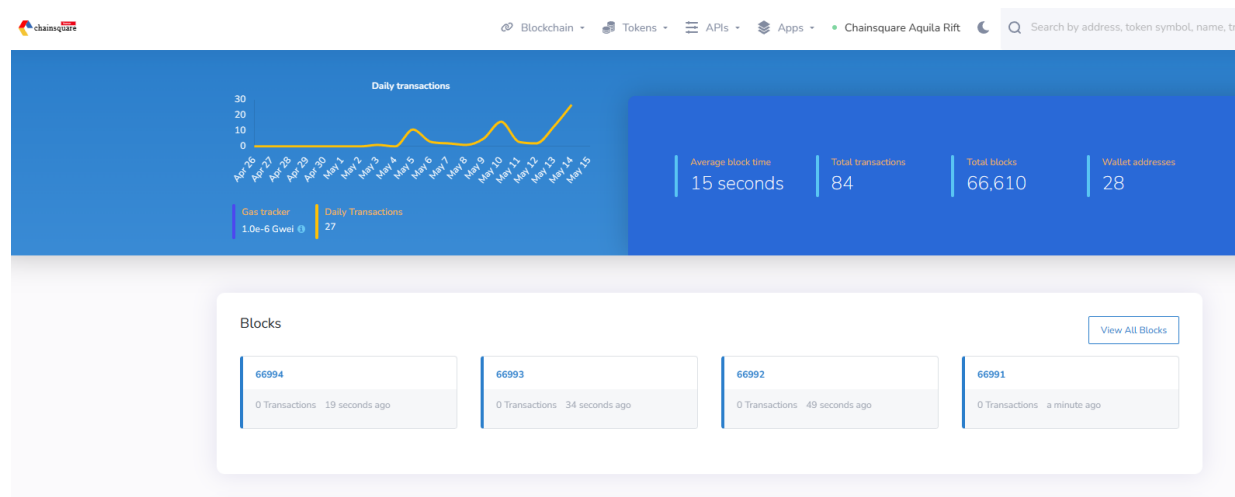
Another crucial aspect of Chainsquare is its RPC, which is accessible at <https://v1seed.chainsquare.la> and <https://v1seedtestnet.chainsquare.la/> . The RPC is a critical component of the Ethereum POA network, and developers use it to interact with the network. The RPC on Chainsquare is fast and reliable, ensuring that developers can test their applications quickly and efficiently. To promote Chainsquare , it is essential to create awareness among developers about its features and benefits. One way to do this is to organize workshops and meetups where developers can learn about the Testnet and how it can help them test their applications.



Chainsquare Mainnet Explorer

Another way is to provide developers with tutorials and guides on how to use the Testnet and its various features. Social media platforms such as Medium and discord can also be used to promote the Testnet and engage with the developer community. In addition, it is essential to collaborate with other blockchain projects and communities to promote Chainsquare . By partnering with other projects and communities, the Testnet can gain exposure to a wider audience, increasing its popularity and usage.

Furthermore, incentivizing developers to use Chainsquare can also be an effective way of promoting the Testnet. Offering rewards or bounties to developers who find bugs or contribute to the Testnet can encourage more participation and usage.



Chainsquare Testnet Explorer

3.2 Chainsquare Plasma (Beta Testing Phase)

Chainsquare Plasma is a cross-chain bridge solution that allows for the seamless transfer of assets between different blockchain networks. The platform is designed to provide a high level of security, speed, and scalability, making it an ideal solution for businesses and organizations that need to process a large volume of transactions quickly and efficiently. One of the key benefits of Chainsquare Plasma is its ability to connect different blockchain networks, including Ethereum, Binance Smart Chain, and others.

This means that users can transfer assets between different networks without the need for intermediaries or centralized exchanges. Chainsquare Plasma uses a unique smart contract architecture to facilitate cross-chain transactions. The smart contract acts as a mediator between the two blockchains and holds the assets being exchanged. The contract ensures that the transaction is completed only when the conditions of the contract are met. This ensures maximum security and transparency for the transaction. The platform also offers a range of features that make it an ideal solution for businesses and organizations.

It is highly scalable and can handle a large volume of transactions without compromising on speed or security. The platform also offers low transaction fees, which are paid using its native token.

The screenshot displays the Chainsquare Plasma bridge interface. At the top, the Chainsquare logo is visible. Below it, the 'Token:' field is set to 'Chainsquare-Multi'. The 'From:' field shows 'Chainsquare' as the source, and the 'To:' field shows 'Chainsquare' as the destination. The 'Amount:' field is set to '0'. A 'Balance: 390084.00000.CHMT' is displayed on the right. A blue 'BRIDGE' button is located below the amount field. Below the form, the 'Your Transactions:' section lists three completed transactions:

From	To	Amount	Time	Status
Chainsquare	Bitkub Chain	8.00000 CHMT	5/10/2023, 7:36:34 PM	Completed (0xb5117...)
Chainsquare	LTC Chain	8.00000 CHMT	5/10/2023, 7:35:04 PM	Completed (0x800e6...)
Chainsquare	LTC Chain	1.00000 CHMT	5/10/2023, 7:34:04 PM	Completed (0x8c8a8...)

Chainsquare Plasma

Chainsquare Plasma is built on a decentralized into centralized architecture that ensures maximum security and privacy for its users. The platform uses advanced encryption technologies to protect user data and assets, making it one of the most secure cross-chain bridge solutions available today.

3.3 NFT marketplaces for E-commerce

Chainsquare is a blockchain-based platform that provides a secure and transparent marketplace for NFTs (Non-Fungible Tokens). The NFT market place for Chainsquare allows creators to sell their unique digital assets, such as artwork, music, videos and more, directly to buyers in a decentralized and trustless environment. Chainsquare's NFT market place offers a user-friendly interface that makes it easy for both buyers and sellers to navigate. Creators can create their own NFTs, set their own prices and sell them to buyers with just a few clicks. Buyers can browse through the listings and purchase NFTs using a variety of cryptocurrencies.

One of the key benefits of using Chainsquare's NFT market place is its focus on security and transparency. The platform uses blockchain technology to ensure that each NFT transaction is recorded and cannot be altered. This means that buyers and sellers can trust that the NFTs they are purchasing are authentic and unique.

Chainsquare's NFT market place also offers a variety of tools and features to help creators market and sell their NFTs. These include social media integration, analytics, and customizable listing templates. This allows creators to showcase their NFTs to a wider audience and increase their chances of making sales.

Overall, Chainsquare's NFT market place is an innovative and secure platform that provides a valuable service to the growing community of NFT creators and buyers. With its user-friendly interface and focus on security and transparency, it is poised to become a leading player in the NFT market.

3.4 Zero-Card Solution

Zero-Card Solution is a new innovative concept that utilizes blockchain technology to provide a secure and efficient method of storing and accessing personal identity data without the need for physical identity cards. Traditional identity cards are prone to theft, loss, and fraud, and often require complex verification processes, making them a cumbersome and inefficient solution. The Zero-Card Solution leverages the immutability and transparency of blockchain to create a decentralized system of identity verification and management. With this system, individuals can store their personal identity data, such as name, address, and biometric information, on a secure blockchain network. When a user needs to verify their identity, they can simply provide access to their blockchain record, eliminating the need for a physical identity card. This ensures that personal identity data is secure and reduces the risk of identity theft and fraud. Moreover, the Zero-Card Solution allows for a more efficient and streamlined verification process. It eliminates the need for complex verification processes, such as background checks and document verification, which can be time-consuming and costly. In addition, the Zero-Card Solution has the potential to provide a more inclusive and accessible means of identity verification. It can be particularly useful for individuals who do not have access to traditional forms of identification, such as refugees or individuals living in remote areas. Overall, the Zero-Card Solution is an innovative and secure way of managing personal identity data. It provides a more efficient and streamlined verification process while reducing the risk of identity theft and fraud. With the potential to provide a more

inclusive and accessible means of identity verification, this solution has the potential to revolutionize the way we manage and verify personal identity data.

3.5 Web3 and Smart contract development

Web 3.0 is the next evolution of the internet, which is set to revolutionize the way we interact with digital content and data. It is a decentralized ecosystem that aims to create a more secure, transparent, and user-centric internet. Chainsquare is a leading blockchain development company that is at the forefront of Web 3.0 development. Chainsquare is developing a decentralized network that utilizes blockchain technology to provide a more secure and transparent internet. The network is designed to enable users to own and control their data, without the need for intermediaries. It ensures that data is stored on a tamper-proof blockchain network, which provides an unparalleled level of security and transparency. The Chainsquare Web 3.0 network is built on the principles of decentralization, privacy, and security. It is designed to provide a more user-centric internet, where users have complete control over their data and digital assets. The network is also designed to be highly scalable, ensuring that it handle large volumes of transactions and data. Chainsquare is using cutting-edge technologies such as IPFS (InterPlanetary File System) and Ethereum to power its Web .0 network. IPFS is a distributed file system that provides a more efficient and secure way of storing and accessing digital content. Ethereum is blockchain platform that enables the development of decentralized applications (DApps) and smart contracts. Chainsquare is also developing a range of Web 3.0 applications, including a decentralized social network, a decentralized marketplace, and a decentralized identity verification system. These applications are designed to provide users with a more secure, transparent, and user-centric experience, while also providing them with greater control over their digital assets and data. Overall, Chainsquare is at the forefront of Web 3.0 development, utilizing blockchain technology to create a more secure, transparent, and user-centric internet. Its decentralized network and applications are set to revolutionize the way we interact with digital content and data, providing users with greater control and ownership over their digital assets and data.

3.6 Crowdfunding System

Chainsquare is a leading blockchain development company that is dedicated to creating cutting-edge solutions for the modern world. One of the innovative solutions developed by Chainsquare

is a crowdfunding system that utilizes blockchain technology to provide a more secure, transparent, and efficient way of raising funds. The Chainsquare crowdfunding system is designed to enable individuals and businesses to raise funds for their projects and ideas by leveraging the power of blockchain technology. The system is built on a decentralized network that ensures that funds raised are transparently managed and securely stored. The crowdfunding system developed by Chainsquare utilizes smart contracts, which are self-executing contracts with the terms of the agreement written directly into the code. These smart contracts ensure that the funds raised are transparently managed and distributed according to the predetermined terms and conditions. The Chainsquare crowdfunding system also provides a more efficient way of managing funds by eliminating intermediaries. This means that there are no middlemen involved in the fundraising process, which reduces costs and increases the speed of transactions. The system is also designed to provide greater security for both investors and fundraisers. The use of blockchain technology ensures that funds raised are securely stored and cannot be tampered with. Additionally, the use of smart contracts ensures that the terms of the agreement are automatically enforced, eliminating the need for legal intermediaries. Overall, the crowdfunding system developed by Chainsquare is revolutionizing the way fundraising is done by utilizing the power of blockchain technology. It provides a more secure, transparent, and efficient way of raising funds, and eliminates intermediaries, reducing costs and increasing the speed of transactions. With this system, Chainsquare is helping to democratize access to capital, enabling individuals and businesses to bring their ideas to life.

3.7 Real Estate

Chainsquare is a leading blockchain development company that has been at the forefront of innovation in the industry. One of the innovative solutions developed by Chainsquare is a real estate platform that leverages the power of blockchain technology to provide a more secure, transparent, and efficient way of buying and selling properties. The real estate platform developed by Chainsquare is designed to enable buyers and sellers to transact securely, transparently, and efficiently.

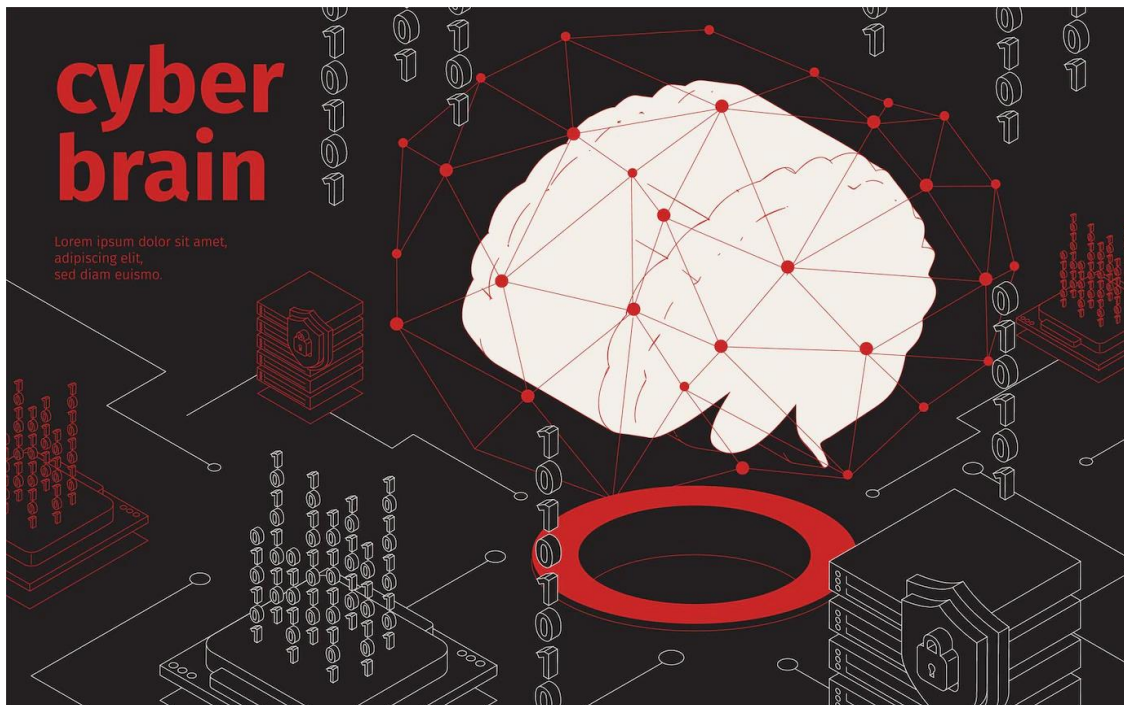


Chainsquare Real Estate

The platform is built on a decentralized network that ensures that all transactions are transparently managed and securely stored. The real estate platform utilizes smart contracts, which are self-executing contracts with the terms of the agreement written directly into the code. These smart contracts ensure that the terms of the agreement are automatically enforced, eliminating the need for legal intermediaries. This ensures that all parties involved in the transaction are protected from fraud and ensures that the transaction is completed in a timely and efficient manner. Additionally, the use of blockchain technology ensures that all transactions are securely stored and cannot be tampered with. This provides greater security for both buyers and sellers, ensuring that their information is protected from cyber threats. The real estate platform developed by Chainsquare also provides a more efficient way of managing real estate transactions. The platform eliminates intermediaries, reducing costs and increasing the speed of transactions. This means that buyers and sellers can transact quickly and efficiently with minimal paperwork and bureaucracy. Overall, the real estate platform developed by Chainsquare is revolutionizing the way real estate transactions are done by utilizing the power of blockchain technology. It provides a more secure, transparent, and efficient way of buying and selling properties, and eliminates intermediaries, reducing costs and increasing the speed of transactions. With this platform, Chainsquare is helping to democratize access to real estate, making it easier and more affordable for everyone to own property.

3.8 AI - Blockchain

AI (Artificial Intelligence) and Blockchain are two of the most promising and transformative technologies of our time. When combined, they have the potential to create a powerful force that can change the way we do business, conduct transactions, and interact with technology. AI is all about teaching machines to think and act like humans. By using algorithms and machine learning, AI can analyze large amounts of data, recognize patterns, and make decisions based on that data. Blockchain, on the other hand, is a decentralized, distributed ledger that records transactions and stores data in a secure and transparent way.



Chainsquare AI (Davica)

When AI is integrated with Blockchain, it can help solve some of the key challenges facing the technology. For example, AI can help improve the speed and accuracy of Blockchain transactions, making them more efficient and reliable. AI can also help identify and prevent fraud by analyzing transaction data and detecting any suspicious activity. Another area where AI and Blockchain can work together is in the creation of smart contracts. Smart contracts are self-executing contracts that automatically execute when certain conditions are met. By integrating AI into smart contracts, it is possible to create more complex and sophisticated contracts that can handle complex scenarios and conditions. AI can also be used to help improve the security of Blockchain. By analyzing

transaction data and identifying any potential vulnerabilities, AI can help prevent hacking and other security breaches. Additionally, AI can be used to help identify and prevent fraud by analyzing transaction data and detecting any suspicious activity. Overall, the combination of AI and Blockchain has the potential to create a powerful force that can change the way we do business, conduct transactions, and interact with technology. As these technologies continue to evolve and mature, we can expect to see more innovative and transformative use cases emerge.

4. Coin Distribution (Version 1.0)

Q3-2022: Distributed for Developers and Marketing's Wallet and Locked 55.3% of Chainsquare ETH.

Q4-2022: Distributed Testing Dev, Developer, and Marketing will provide Chainsquare ETH as an academy (10~10000 ETH) depending on events.

Q1-2023: Operation of Testnet and Mainnet.

Q2-2023: Looking for Partnership and investors.

Q3-2023: Deploy Contract for ICO on Binance Smart Chain.

5. Road Map (Version 1.0)

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Q3-2023: Deploy Contract for ICO on Binance Smart Chain.

6. Chainquare is looking for investor

Chainquare is a blockchain company that has developed a unique and innovative blockchain solution that has the potential to disrupt the way we conduct transactions and store data. Our blockchain technology is faster, more secure, and more efficient than traditional blockchain solutions, and we believe it has the potential to revolutionize a wide range of industries.



“Chainquare looking for investors for build the best future of Blockchain”

As we continue to develop and expand our blockchain technology, we are looking for investors who share our vision and believe in our mission to revolutionize the world of blockchain. We are seeking investors who are looking to invest in cutting-edge technology and are committed to supporting the growth and development of innovative companies.

Investing in Chainquare's blockchain technology offers many potential benefits for investors, including:

1. Potential for high returns: As our technology continues to gain traction and disrupt traditional industries, there is the potential for significant returns on investment.
2. Early-mover advantage: By investing in our blockchain technology early on, investors can take advantage of the potential benefits of being an early mover in a rapidly growing industry.

3. **Diversification:** Investing in Chainsquare's blockchain technology offers investors the opportunity to diversify their portfolio and invest in a high-growth industry.

4. **Supporting innovation:** By investing in our blockchain technology, investors are supporting the growth and development of a company that is committed to innovation and disrupting traditional industries.

If you are interested in investing in Chainsquare's blockchain technology, we would love to hear from you. We are committed to working with investors who share our vision and are excited about the potential of blockchain technology. Contact us today to learn more about our investment opportunities.

References

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- [6] Chainsquare Testnet: [Chainsquare Aquila Rift Explorer](#)