



Quantari

The world's leading digital asset trading platform



Quantari Global Technologies Inc.

Contents

Chapter 1: Overview of the Development of the Digital Currency Market.....	4
1.1 The advent of the crypto economy	4
1.2 The digital currency market is growing rapidly	6
1.3 Exchange platforms play an important role	7
1.4 Exchange Market Outlook.....	10
Chapter 2: Overview of Quantari Exchange	12
2.1 Introduction to Quantari Exchange	12
2.2 Quantari Global Technologies Inc.	14
2.3 Top team	17
2.4 capital support	19
Chapter 3: Quantari Business Module	22
3.1 Spot quotation	22
3.2 Contract transactions	24
3.3 BTC trading	26
3.4 Pledge Service	29
3.5 Lending Services	31
3.6 New Coin Subscription	33
3.7 International Gold	36
Chapter 4: Quantari Exchange Technology Framework	38
4.1 Technical Architecture Overview	38
4.2 Microservices architecture	39
4.3 Order service	39
4.4 Market making services	43
4.5 User service	44

4.6 Wallet service	44
4.7 Infrastructure risk control	45
Chapter 5: Future Ecological Layout	47
5.1 Development planning	47
5.2 Configure public blockchain	48
5.3 Public ecological construction	51
5.4 Investor Protection Fund	54
Chapter 6: Disclaimer	56





Chapter 1 Overview of the Development of the Digital Currency Market

1.1 The advent of the crypto economy

Blockchain has enabled the Internet to leap from "information" to "value", giving the Internet and the digital world two unique functional features: the first is the technical blockchain credit layer for "value transfer" in the digital world; The second is the economic Token for "value representation" in the digital world.

With the rapid development of blockchain technology, especially the basic public chain, various industries have conducted extensive discussions and attempts on the application of blockchain, and the possibility of its implementation is gradually emerging. We believe that the key path to commercial application is to build crypto "Token Economy", that is, commercial ecosystems that use tokens one by one. Based on the value representation and value transfer of blockchain, leverage the incentive and governance functions of tokens to mobilize various user groups and partners, transform Internet platforms, and build shared, win-win, and autonomous business ecosystems.

The word "token" originated from the English word "token", which originally meant "token, signaling", that is, "proof of tradable encrypted digital rights". It is a proof of the right to exchange information between one point and another in a network, with the characteristics of confidentiality and liquidity. token is widely recognized because of Ethereum and the ERC20 standard it sets. This token can represent any equity and value.

The essence of a token is a tradable proof of encrypted digital rights that represents a right, an inherent and intrinsic value. The token economy is a huge reform of the traditional production model, allowing for better utilization of resources and greatly enhancing this production efficiency.

Blockchain's support for supply-side structural reform is to fully marketize and highly free token supply. Anyone, any organization, any institution can issue proof



of stake based on their own resources and service capabilities. Tokens run on the blockchain and are verifiable, traceable, and exchangeable at any time, with security, trustworthiness, and reliability that have never been achieved in any previous way.

A token economy is a tokenized economy. In this economic system, important values and interests are tokenized, and the system operates through blockchain or trusted centralized systems, maximizing the management of numbers. Because tokens lower the threshold for transactions, collaborations, and processes, they enable role compounding and make people compound roles in specific scenarios, eliminating information asymmetry; Reconstructing the equity structure.

Double-entry bookkeeping emerged in the 13th century along with the Renaissance and matured after the Age of Discovery, creating an entire prosperous era of commercial civilization.

If we push the token economy back another 30 years, we might feel that the token economy has elevated human numerical management capabilities to a brand-new height. In the pre-token era, the method of numerical management based on accounting principles and equity was so primitive and backward. The token economy is not a simple disintermediation. It is essentially a combination of all roles and a reconfiguration of the power structure. The token economy is disrupting not just middlemen, but joint-stock companies and the entire organizational structure and distribution of benefits.

The modern economy is a credit-based economy, and credit creation is the main driving force for the development and prosperity of the modern economy. The essence and core of financial transactions is credit creation. The creation and destruction of credit play an extremely important role in financing and have a direct impact on financial crises. The key to the token economy is to give the real economy a stronger ability to create credit.

With the market capitalization of mainstream tokens such as BTC, ETH, BNB, and Ripple soaring, more entities are exploring the possibility of introducing token economy incentive models, and a new era dominated by the crypto economy is approaching.



1.2 The digital currency market is growing rapidly

The emergence of blockchain has brought about a new type of social trust mechanism, almost perfectly improving the management model of the traditional financial industry. With the rapid development of blockchain technology, the crypto-asset-driven token economy has also come into the public eye. A digital currency (also known as cryptocurrency or Token) is a trustless and decentralized digital asset based on blockchain technology. Since the birth of Bitcoin in 2009, the digital currency market has experienced rapid growth and has now formed a huge market covering thousands of digital currencies with a total market value of more than one trillion US dollars. The value innovation of digital currencies is obvious:

- **Decentralization:** Not dependent on any central authority for issuance and management, maintained by a distributed network and verified by a blockchain network.
- **Security:** Cryptographic technology ensures the security of transactions, with all transactions recorded on a public ledger that cannot be reversibly modified, tampered with, or forged.
- **Anonymity:** User identity information is protected, transaction records are open and transparent but cannot be traced to individuals.
- **Global:** Global borderless participation, 24/7 non-stop transactions, no geographical restrictions, transactions can be made anytime, anywhere.
- **Innovation-driven:** Revolutionizing financial and business models through technologies such as smart contracts and token economic models.

As of now, the total market capitalization of the digital currency market has exceeded \$3.3 trillion. The growth of the crypto market will be driven by regulatory shifts, technological advancements and the influx of traditional capital. At the same time, decentralized exchanges will be increasingly adopted through the integration of AI agents and meme-based marketing strategies. This surge will also drive traditional centralized exchanges to adopt DeFi strategies, offering high-yield investment products to remain competitive. In addition, the total market capitalization of dollar-pegged stablecoins is expected to exceed \$300 billion, driven by compliance, high-yield and demand for real-world asset-backed options.



We expect a significant inflow of traditional capital, with an estimated \$3 trillion going into crypto markets through security token offerings, exchange-traded funds (ETFs), and central bank digital currencies. An increasing number of institutional investors are starting to focus on and invest in digital currencies, bringing incremental funds to the market. The application scenarios of digital currencies in areas such as payments, cross-border remittances, and supply chain finance are constantly expanding.

Overall, there are more than 500 million cryptocurrency holders worldwide, mainly in North America, Europe and Asia. Institutional users are also flocking into the crypto market, such as Tesla and MicroStrategy, which hold Bitcoin as a reserve asset; Grayscale Bitcoin Trust (GBTC), ARK Invest and others have launched crypto investment products; Goldman Sachs and jpmorgan Chase offer crypto-related services and more. The cryptocurrency market has evolved from a marginal technological innovation to a significant addition to the global financial system, whose technological value lies in reconfiguring trust mechanisms through decentralization, transparency, and automation. We predict that the total market capitalization of cryptocurrencies will reach \$10 trillion over the next three years.

1.3 Exchange platforms play a significant role

Digital currency exchanges are the bridge connecting the digital currency world to traditional financial markets. It provides users with a secure and convenient platform to buy and sell various digital currencies, such as Bitcoin, Ethereum, etc. Digital currency exchanges have significant advantages over traditional financial exchanges: decentralization and transparency, global accessibility, 24/7 non-stop trading, and the provision of innovative financial products and digital currency services, etc.

In terms of specific functions, exchanges have the following functional values:

An exchange is a place for the trading of digital currencies. Users can buy and sell digital currencies on the exchange, exchange with other users, and earn corresponding profits.



- Offer price information on digital currencies: In addition to being a place to buy and sell digital currencies, the exchange also provides users with real-time price information on digital currencies. This provides a basis for users to decide whether to buy or sell digital currency. The exchange's price information can also be used to research and monitor the dynamics of the digital currency market.
- Provide trading liquidity: Exchanges provide important trading liquidity for the digital currency market. By providing an open and free trading platform, exchanges facilitate the exchange of digital currencies and the development of markets. This also makes the digital currency market more stable and enhances the liquidity of digital currencies.
- Provide a secure trading environment: Digital currency exchanges ensure the security of users' assets by providing a secure trading environment. A secure trading environment includes effective security measures, efficient risk monitoring and a fight against malicious behavior, etc.
- Provide trading tools and services: Exchanges offer a wide range of tools and services to help users buy and sell digital currencies more effectively. For example, exchanges can provide information such as digital currency market charts, market depth, limit orders, market orders, trading volume and closing price to help users make smarter decisions.
- Facilitating the development and application of digital currencies: Exchanges also facilitate the development and application of digital currencies. By providing a convenient, efficient and secure digital currency trading platform, exchanges attract more users to join the digital currency market and promote the application and popularization of digital currencies.
- Helping the digital currency industry to comply: As the digital currency market develops, governments around the world have begun to explore and practice the regulation and compliance of digital currencies. Exchanges, as major players in the digital currency market, also take on the responsibility of promoting compliance in the digital currency industry.



- Facilitating digital currency investors: Exchanges offer a lot of convenience for digital currency investors. Investors can quickly solidify their assets by buying, selling and exchanging digital currencies through exchanges. Meanwhile, some exchanges also offer portfolio tools and advice to help investors manage their digital assets.

In terms of the mode of operation, digital currency exchanges can be roughly divided into centralized exchanges (CEX) and decentralized exchanges (DEX). Centralized exchanges are platforms operated by a single company or organization, such as Binance, Coinbase, etc. These exchanges typically offer user-friendly interfaces, rich trading tools and good liquidity. However, they also carry certain risks, including hacking and user asset security issues. Decentralized exchanges operate on smart contracts based on blockchain technology, which allows users to trade directly without the need for intermediaries. Although decentralized exchanges have an advantage in terms of security and privacy, they have not yet become widespread due to insufficient liquidity and poor user experience.

In the future, digital currency exchange platforms will move towards higher liquidity, better regulation, and stronger security. Many exchanges will continue to focus on enhancing the user experience and increasing user education and support services. In the case of digital asset derivatives trading, an increasing number of exchanges are beginning to offer options such as futures and options to meet the needs of different investors. At the same time, with the rise of DeFi (Decentralized Finance), the usage rate of decentralized exchanges is gradually increasing and may complement centralized exchanges in the future, driving the prosperity of the entire digital currency market.





1.4 Market outlook for exchanges

With the popularization of blockchain technology and digital assets, digital currency exchanges have become an important part of the global financial market. The future of digital currency exchanges is promising, and their development will be influenced by multiple factors such as technological progress, market demand, regulatory environment and global economic trends.

1) Market growth potential

According to market research, the global digital currency exchange market is expected to see significant growth in the coming years. For instance, a report by WeAlwin Technologies shows that the global digital currency exchange market size was \$34.198821 billion in 2022 and is projected to reach \$103.39076 billion by 2028, with a compound annual growth rate of 20.25%. This growth is mainly driven by technological advancements, changes in consumer behavior, improved regulatory conditions and the rise of new markets.

2) Technological innovation and user experience

Technological innovation will continue to drive the development of digital currency exchanges. For example, the competition and convergence between decentralized exchanges (DEXs) and centralized exchanges (CEXs) will be an important trend. Dexs offer greater transparency and user control through blockchain technology, while CEXs have an advantage in transaction speed and user experience. In addition, the application of artificial intelligence (AI) and machine learning technologies will enhance trading efficiency and risk management capabilities.

3) Regulatory environment and compliance

The regulatory environment is crucial to the future development of digital currency exchanges. Digital currency exchanges will become more compliant and regulated as more countries and regions introduce clear regulatory policies. This will help boost investor confidence and promote the stable development of the market. For instance, some traditional financial institutions have begun to explore blockchain and digital currency technology, which will further drive the compliance process of digital currency exchanges.



4) Globalization and market expansion

The global trend of digital currency exchanges is evident, especially in emerging markets such as Asia, Latin America and the Middle East. Economic growth and increased demand for digital currencies in these regions offer new market opportunities for exchanges. For example, the Asia-Pacific region is expected to achieve the highest compound annual growth rate in the coming years.

5) Diversify revenue sources

To enhance profitability and market competitiveness, digital currency exchanges are diversifying their revenue sources. In addition to traditional transaction fees, exchanges are also increasing revenue by offering services such as lending, derivatives trading, token offerings (ICOs), and non-fungible token (NFT) trading.

6) User growth and market education

With the popularity of digital currency, the number of global digital currency users is expected to reach one billion by 2030. This will create a huge market demand for digital currency exchanges. At the same time, market education and user training will also become important tasks for exchanges to help new users better understand and use digital currencies.

7) The integration of traditional finance with digital currency

The collaboration between traditional financial institutions and digital currency exchanges will be an important trend. For example, some traditional banks have begun investing in or acquiring digital currency exchanges to expand their fintech business. This convergence will help promote the widespread use of digital currencies and provide users with more convenient and secure financial services.

As digital currencies become more widespread and the number of users increases, digital currency exchanges will become an important part of the global financial market, providing users with more efficient, secure and convenient digital asset trading services. Against this backdrop, Quantari Global Technologies Inc. Based on the digital currency trading market, Quantari was created.



Chapter 2 Overview of Quantari Exchange

2.1 Introduction to Quantari Exchange

Quantari is committed to becoming the world's leading digital asset trading platform, offering a full range of digital currency trading services to global users, including spot quotes, second contracts, spot trading, staking, lending, new coin subscriptions, etc. At the same time, to meet the needs of different investors, Quantari also offers international gold trading services to global users, aiming to usher in a new era of digital gold and create unlimited possibilities.

In terms of spot market data, the platform provides real-time, accurate market data covering a wide range of major digital currencies as well as emerging currencies, helping users to fully grasp market dynamics and make informed investment decisions. Whether it's established digital currencies like Bitcoin and Ethereum, or promising new ones, users can easily access key information such as price trends and trading volumes on Quantari Exchange to grasp the pulse of the market.

Second contract trading is one of the highlights of Quantari Exchange. This innovative trading model allows users to complete contract trades in an extremely short time, greatly enhancing trading efficiency and capital utilization. For investors who seek quick trades and are good at catching short-term market fluctuations, the second contract is undoubtedly an attractive option. Users can get greater returns with a smaller investment, of course, with corresponding risks. Quantari Exchange ensures smooth operation of second contract trading through advanced technical systems and strict risk control measures, creating a fair and transparent trading environment for users.

The coin-to-coin trading service meets the needs of users to exchange and trade between different digital currencies. As the digital currency market continues to evolve, an increasing number of investors are looking to convert one of their digital currencies into another that has more potential or is more in line with their investment strategies. The coin-to-currency trading feature of Quantari Exchange



provides a convenient trading channel, allowing users to exchange their digital currencies directly without converting them into fiat currency, reducing transaction costs and enhancing the flexibility and efficiency of trading.

Staking is another value-added service that Quantari Exchange offers to its users. Users can stake the digital currency they hold to earn a certain amount of money. This service not only provides users with an additional source of income, but also enhances the liquidity of digital currency and supports the stable operation of the platform. Through the staking mechanism, users can increase the value of their assets without selling them, further enriching their investment strategies.

Lending services, on the other hand, provide users with financial support to help them seize market opportunities when they arise. Whether they need short-term funds for trading or want to scale up their investments, users can get the digital currency or fiat currency they need through Quantari Exchange's lending service. The platform ensures the security and reliability of lending business through a strict credit assessment and risk control system, while providing a fair and transparent trading environment for both lenders and borrowers.

The new currency subscription service has opened up an exclusive channel for users who are interested in emerging digital currency projects. With the continuous development and innovation of blockchain technology, new digital currency projects are emerging one after another, among which there are no shortage of projects with great potential and innovative value. Quantari Exchange offers users the opportunity to subscribe to new coins by collaborating with quality project parties, allowing users to participate in the early stages of the project and share in the dividends of its growth. The platform's screening and review of new coin projects are extremely strict to ensure the quality and security of the projects and to safeguard users' investments.

On Quantari Exchange, investors can trade international gold as conveniently as they trade digital currencies. The platform uses blockchain technology to provide unalterable, transparent and traceable transaction records for gold trading, ensuring the authenticity and security of the transactions. At the same time, through digital means, transaction costs have been reduced, transaction efficiency has been improved, and gold investment has become more accessible and convenient. Investors do not have to worry about the storage and transportation of physical gold, nor do they have to face the complex traditional financial transaction



process. They can easily participate in the international gold market through Quantari Exchange.

Quantari builds a secure, stable, fair, transparent and wide trading depth exchange as its core value pursuit, creating a new one-stop trading ecosystem for global users. At present, Quantari supports English, Chinese, Korean, Japanese, Vietnamese, Thai, etc. Later, it will support 100 languages including French, German, Arabic, Spanish, Italian, Indonesian, etc. This will clear the language barrier for Quantari to become a world-class blockchain digital asset trading platform.



2.2 Quantari Digital Assets Inc

Quantari Global Technologies Inc. It is the parent company of Quantari Exchange, a global leader in blockchain technology and digital currency trading.

1) Advanced blockchain technology research and development



Quantari Global Technologies Inc. Knowing that blockchain technology is the core foundation of digital currency transactions, Quantari Global Technologies has invested heavily in the research and development and innovation of blockchain technology. The company is not only committed to optimizing the existing blockchain architecture to increase transaction speed and reduce costs, but also actively exploring the application of blockchain technology in other fields. For example, decentralize the storage and trading of digital assets through blockchain technology to ensure that every transaction is immutable, transparent and traceable. In addition, companies are actively developing smart contract technology that automates the execution of contract terms, reduces human intervention, and enhances transaction efficiency and security.

2) Innovative digital asset products

In addition to traditional trading services, Quantari Global Technologies Inc. It has also launched a variety of innovative digital asset products. For example, the company tokenized physical assets through blockchain technology, transforming traditional assets such as real estate and artworks into digital assets and broadening investment channels. In addition, the company has launched digital asset funds, providing investors with a diverse portfolio to help them diversify risks.

3) Strong technical and security support

Quantari Global Technologies Inc. Invest heavily in technology and security to ensure the stable operation of the platform and the security of user assets. The company uses advanced encryption technology to protect user data and transaction records and prevent information leakage. At the same time, the platform is equipped with real-time monitoring systems that can quickly identify and block abnormal transactions and attack attempts. In addition, the company collaborates with multiple security agencies to conduct regular security audits to ensure that the platform meets the highest industry standards.

4) Global layout and user services

Quantari Global Technologies Inc. Expand your business with a global perspective and provide localized services to users by setting up branches in multiple countries and regions. The company also offers multilingual customer support to help users solve various problems. In addition, the company enhances users' understanding of digital assets and blockchain technology by holding online



and offline events, publishing educational content, etc.

In the future, Quantari Global Technologies Inc. We will continue to increase investment in research and development of blockchain technology and explore more application scenarios. At the same time, the company will further expand its global market and attract more users to join in digital asset trading. In addition, the company will strengthen its cooperation with financial institutions and regulators to promote the standardization and sustainable development of the digital asset industry.

Quantari Global Technologies Inc. With its advanced blockchain technology, comprehensive trading services, innovative digital asset products, and strong technical and security support, it is leading the development of the digital asset industry, providing global users with a secure, efficient, and convenient trading experience.





2.3 Top-notch team

Quantari has assembled top-notch talent teams covering areas such as blockchain technology, digital currency trading, payments, derivatives trading, gold trading, and trading platform development.

Dr.Alex Carter (Chief Blockchain Technology Expert)

Dr.Alex Carter is a senior expert with over 15 years of experience in the field of blockchain technology. He holds a Ph.D. in computer science and focuses on distributed ledger technology, cryptography, and smart contract development. Before joining Quantari, Alex served as a core developer in several internationally renowned blockchain projects and was involved in the design and optimization of the underlying architectures of multiple blockchains. He led his team to successfully develop the blockchain infrastructure of Quantari Exchange, which significantly enhanced the platform's transaction processing speed and security through innovative consensus mechanisms and data storage solutions. He also led the development and auditing of smart contracts to ensure the accuracy and transparency of automated transaction execution on the platform. Alex's research has been published multiple times in top international academic journals and has made significant contributions to the development of blockchain technology.

Emily Johnson (Director of Digital Currency Trading)

Emily Johnson is an experienced digital currency trading expert with over 10 years of industry experience. She has worked as a senior trader at several well-known digital currency exchanges and has accumulated extensive experience in market analysis and trading strategy formulation. At Quantari, Emily led the trading team, developed and executed trading strategies to help users maximize profits in a complex market environment. She is proficient in a variety of trading tools and technical indicators, able to keenly capture market opportunities and adjust trading strategies in a timely manner. Emily is also responsible for training new traders and enhancing the overall trading skills of the team. With her sharp market insight and rigorous risk control, she laid a solid foundation for Quantari Exchange's trading business.



David Lee (Head of Digital Currency Payments)

David Lee is an expert in digital currency payments with more than 8 years of industry experience. He has worked as a payment system architect at several fintech companies, focusing on the design and implementation of digital currency payment solutions. At Quantari, David was responsible for building and optimizing the platform's digital currency payment system to ensure that users could quickly and securely deposit and withdraw funds. He led the development of a multi-currency payment gateway that supports payments for a variety of mainstream digital currencies, including Bitcoin and Ethereum. David also worked with several banks and payment institutions to expand payment channels and reduce payment costs. He is committed to enhancing the user experience of the payment system by optimizing the payment process and increasing the payment speed to provide users with a seamless payment experience.

Sophia Patel (Derivatives Trading Expert)

Sophia Patel is a professional with 12 years of experience in derivatives trading. She has extensive theoretical and practical experience in derivatives trading in both traditional financial markets and digital currency markets. At Quantari, Sophia was responsible for developing and managing the platform's derivatives trading products, including digital currency futures, options, etc. She is proficient in derivatives pricing models and risk management techniques and is capable of designing attractive derivatives contracts based on market demand. Sophia is also responsible for monitoring market dynamics, ensuring the smooth operation of derivatives trading, and providing professional trading advice to users. Her expertise and deep understanding of the market provide strong support for Quantari's derivatives trading business.

Michael Brown (International Gold Trading Manager)

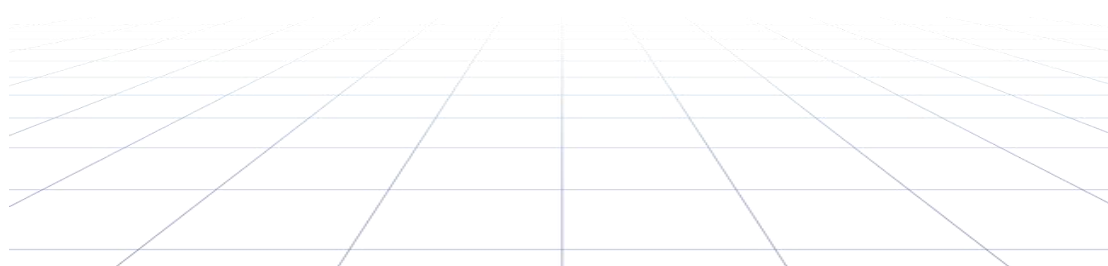
Michael Brown is a seasoned expert with 15 years of experience in international gold trading. He has worked as a gold trader at several well-known international financial institutions and has accumulated rich experience in market analysis and trading. At Quantari, Michael leads the international gold trading business and drives innovation and development in digital gold trading. He is proficient in both



fundamental and technical analysis of the gold market and can accurately grasp market trends. Michael is also responsible for building partnerships with global gold suppliers and trading institutions to ensure that the platform's gold trading products are competitive. He is committed to combining traditional gold trading with blockchain technology to provide users with a secure and convenient digital gold trading experience.

Daniel Kim (Director of Platform Development)

Daniel Kim is a technical expert with 10 years of experience in developing digital currency trading platforms. He holds a master's degree in computer science and focuses on software development and system architecture design. Before joining Quantari, Daniel worked as a senior engineer at several well-known technology companies and was involved in the development of several large projects. At Quantari, Daniel was responsible for leading the platform development team and designing and developing the Quantari digital asset trading platform. He led the front-end and back-end development of the platform to ensure it had high performance, high availability and high security. Daniel also focused on the user experience by optimizing the platform's interface and interaction design to enhance the ease of operation for users. He leads his team to continuously optimize the platform's performance to ensure its stable operation in high-concurrency transaction scenarios.



2.4 Capital Support

Quantari Exchange's strategic layout and technological innovation capabilities in digital assets have been recognized and supported by the world's top investment institutions.



1) Grayscale Investments

Grayscale Investments, the world's largest Digital asset investment management company, was founded in 2013 and is part of Digital Currency Group (DCG). Grayscale is known for its innovative investment products, such as the world's first Bitcoin Investment Trust (GBTC) and Ethereum Investment Trust (ETHE). These products enable investors to access crypto assets in the form of traditional financial instruments without having to hold and manage digital assets directly. Grayscale's investment strategy and product design provide institutional investors with a compliant access to the digital asset market, which manages a large scale of assets and enjoys an extremely high reputation in the industry.

Grayscale's investment in Quantari Exchange is a testament to its high recognition of Quantari's technological strength and market potential. Quantari Exchange offers investors a wide range of options by providing a variety of digital asset trading services, including spot, contract, staking, etc., which aligns well with Grayscale's investment philosophy.

2) Digital Currency Group (DCG)

Founded in 2015, Digital Currency Group is an investment firm focused on blockchain and digital assets. DCG's portfolio covers a wide range of areas from exchanges and wallet services to blockchain infrastructure, with the aim of driving the overall development of the digital asset ecosystem by investing in and incubating projects. DCG has several well-known subsidiaries, including Grayscale Investments, Genesis (global prime digital asset broker), CoinDesk (leading blockchain media), among others.

DCG's investment in Quantari is not only a recognition of its technical strength, but also an affirmation of its innovative model in the field of digital asset trading. Quantari Exchange provides investors with an efficient and secure trading environment by integrating blockchain technology and traditional financial tools, which aligns with DCG's mission to promote the popularization of digital assets.

3) Blockchain Capital

Blockchain Capital is a venture capital firm focused on blockchain and digital assets, founded in 2013. The firm has driven the entire industry by investing in early-stage blockchain projects and digital asset firms. Blockchain Capital's



portfolio includes several well-known blockchain projects and trading platforms. Its investment strategy focuses on the innovation and market potential of projects, aiming to drive the widespread application of blockchain technology by supporting projects with potential.

Blockchain Capital's investment in Quantari Exchange reflects its high recognition of Quantari in digital currency trading and the application of blockchain technology. Quantari Exchange's innovative trading model and strong technical foundation set it apart in a highly competitive market as an ideal investment target for Blockchain Capital.

4) Tiger Management (Tiger Global)

Tiger Management (Tiger Global) is a globally renowned investment firm, known for its investments in technology and the Internet. Tiger Global's investments in blockchain and digital assets demonstrate a high focus on emerging technologies and a keen insight into market trends. Tiger Global's investment strategy focuses on long-term value and market potential, and its investment in Quantari Exchange demonstrates confidence in Quantari's digital currency trading and blockchain technology applications.

Quantari Exchange meets the needs of different investors by offering a diverse range of trading products and services, which aligns well with Tiger Global's investment philosophy. Tiger Global's investment provides strong financial support and strategic resources for the further development of Quantari Exchange.

Quantari Exchange has received Investments from top institutions such as Grayscale Investments, Digital Currency Group (DCG), Blockchain Capital and Tiger Management. Not only does it demonstrate its outstanding capabilities in blockchain technology and digital currency trading, but it also provides solid financial and strategic support for its future development. The background and resources of these investment institutions will help Quantari Exchange further expand its business in the global digital asset market, drive technological innovation, and provide better services to investors.



Chapter 3 Quantari Business Modules

3.1 Spot Market

In the world of digital asset trading, timely and accurate information is key for investors to make informed decisions. Quantari Exchange is well aware of this and has invested heavily in spot market data to provide users with the most comprehensive and accurate market data.

1) Real-time data updates

Quantari Exchange's spot market system is able to update market data in real time, ensuring that the information users obtain is always up-to-date. The platform uses advanced data collection technology and works closely with major digital currency exchanges and market data providers around the world to ensure reliable data sources and fast updates. Whether it's a small fluctuation in price or a sudden change in trading volume, users can get the latest information through Quantari Exchange in real time. This real-time performance is crucial for investors who rely on technical analysis and short-term trading strategies, as it helps them catch the fleeting opportunities in the market.

2) Precise data presentation

In addition to real-time performance, Quantari Exchange also focuses on the accuracy of data. The platform conducts rigorous screening and verification of data to ensure that every data point is accurate. With advanced algorithms and data analysis tools, Quantari is able to provide high-precision key metrics such as price movements, trading volume, and market depth. These precise data provide users with a reliable analytical basis to help them make more accurate judgments about market trends.

3) Comprehensive digital currency coverage

Quantari Exchange's spot market services cover a wide range of major digital currencies as well as emerging ones. Whether it's established digital currencies like Bitcoin (BTC), Ethereum (ETH), or promising new ones, users can find detailed market data for them on Quantari Exchange. This wide coverage makes Quantari



Exchange the top choice for investors to get comprehensive market information.

For mainstream digital currencies, Quantari Exchange offers in-depth market analysis and historical data. As a benchmark in the digital asset market, Bitcoin's price movement and trading volume have been the focus of investors' attention. Quantari Exchange not only offers real-time Bitcoin prices, but also helps users gain a deeper understanding of the reasons and trends behind its price fluctuations through charts and data analysis tools.

As a representative of smart contract platforms, Ethereum's market performance also has a profound impact on the entire blockchain industry. Quantari Exchange provides users with detailed transaction data on Ethereum, including the activity of smart contracts, transactions of decentralized applications (DApps), etc., to help users gain a comprehensive understanding of the market dynamics of Ethereum.

For emerging currencies, Quantari Exchange also provides rich information. As blockchain technology continues to evolve, new digital currency projects are emerging one after another. These emerging currencies often carry high risks, but they can also bring huge returns. Quantari Exchange ensures that the emerging coins listed have certain potential and value through a rigorous project screening and evaluation mechanism. Users can access basic information, white papers, technical analysis, etc. of these emerging coins on the platform to help them better evaluate investment opportunities.

4) Key information is clear at a glance

On Quantari Exchange, users can easily access key information about digital currencies, including price movements, trading volume, market depth, and trading parity. The platform's interface is designed to be simple and intuitive, allowing users to view data in various forms such as charts and tables. Price charts help users get an intuitive understanding of the price changes of digital currencies, while trading volume data reflects the level of market activity. Market depth information provides users with the distribution of buy and sell orders, helping them judge the balance of buying and selling forces in the market. In addition, Quantari Exchange offers a variety of trading pairs to choose from, allowing users to select different trading currency pairs based on their needs for more flexible trading operations.

Quantari Exchange's spot market services, with their real-time, precise,



comprehensive and intelligent features, provide investors with a powerful market analysis tool. Whether it's a mainstream digital currency or an emerging one, users can get key market information on Quantari Exchange to make smarter investment decisions. With intelligent analytics tools and personalized services, Quantari Exchange further enhances the user experience and helps users seize opportunities and avoid risks in the complex digital asset market.



3.2 Contract Trading

Quantari Exchange's second contract trading feature, an innovative trading model designed to meet the needs of traders focused on short-term market volatility, sets a new benchmark in the industry.

Second contract trading is a major highlight of Quantari Exchange, which revolutionizes the time constraints of traditional contract trading. This trading model allows users to open, hold and close contracts in very short periods of time, often in seconds. The trading cycle of second contracts is significantly shorter than that of traditional contract trading, meaning investors can enter and exit the market multiple times in a short period of time to capture more trading opportunities.

For example, traditional contract trading may take minutes or even hours to complete a full trading cycle, while second contracts can do so in a short time. This ability to trade quickly enables investors to be more flexible in responding to rapid changes in the market, especially in a market environment with intense price fluctuations. Second contracts allow investors to lock in profits or stop losses quickly, reducing the risk of market delays.

Quantari Exchange is well aware of the risks of short-term trading and has



adopted strict risk control measures to protect investors' interests. The platform has an automatic stop-loss mechanism that automatically closes an investor's position when the loss reaches a certain percentage to prevent the investor from losing more than they have invested. In addition, the platform provides risk warnings and educational materials to help investors better understand the risks of short-term trading and develop reasonable trading strategies.

- **Asset types:** Common trading targets for Quantari Exchange second contracts include digital currencies such as Bitcoin and Ethereum, as well as gold.
- **Trading Time:** The trading cycle of Quantari Exchange second contracts usually offers a variety of different time periods for selection, such as 30 seconds, 60 seconds, 90 seconds, 120 seconds, etc. You need to complete the operation of the second contract within these shorter time intervals. The specific trading cycle is subject to the information displayed on the actual trading page.
- **Amount limit:** Quantari Exchange has a minimum purchase amount requirement for each traded product. Specific amount limits can be found and confirmed on the actual trading page.
- **Trading around the clock:** Unlike traditional financial markets with trading time limits, the second contract market typically operates 24 hours a day. This means you can trade at any time, day or night, as long as the market is open.
- **Two-way trading mechanism:** You first determine the trading direction and can choose to go long (expecting the price to rise) or short (expecting the price to fall). Then, based on your own judgment, place a trade order.
- **Price fluctuations and profit/loss calculation:** During the holding period, the price of the underlying asset fluctuates constantly, and your profit/loss situation changes accordingly. If you go long and the price goes up, or short and the price goes down, then you will make a profit; Conversely, if the market moves contrary to traders' expectations, you will incur a loss. The calculation of profit or loss is mainly based on factors such as the value of the contract being traded and price fluctuations.



- Immediate settlement: Quantari second contracts are usually settled immediately after a transaction is completed. At the time of settlement, the funds in your account will increase or decrease accordingly based on the profit or loss of the trade. Settle more frequently to ensure that you are informed of your financial situation in a timely manner.



3.3 Coin-to-coin trading

Coin-to-coin trading services meet the needs of users to exchange and trade between different digital currencies. As the digital currency market continues to evolve, an increasing number of investors are looking to convert one of their digital currencies into another that has more potential or is more in line with their investment strategies.

The coin-to-coin trading feature of Quantari Exchange provides investors with a convenient, efficient and low-cost trading channel. Coin-to-coin trading has significant advantages over traditional digital currency trading methods:

1) No need to exchange for fiat currency



In traditional digital currency trading, investors typically need to first convert their digital currency into fiat currency (such as the US dollar, the euro, etc.) before using the fiat currency to purchase other digital currencies. The process is not only cumbersome but also involves multiple transaction fees and potential exchange rate risks. The coin-to-currency trading feature of Quantari Exchange allows users to exchange one digital currency directly for another without going through the intermediate link of fiat currency, greatly simplifying the trading process.

2) Lower transaction costs

Quantari Exchange's coin-to-trade feature significantly reduces transaction costs by omitting the fiat currency exchange process. Each transaction comes with a fee, while traditional trading requires paying two fees (once for fiat currency and once from fiat currency to another digital currency). Quantari Exchange's coin-to-coin trading only requires one fee, which saves a lot of money in frequent trading situations. In addition, omitting the fiat currency exchange process can also avoid additional costs due to exchange rate fluctuations.

3) Increase the flexibility and efficiency of transactions

Another significant advantage of coin-to-coin trading is the increased flexibility and efficiency of trading. Under the traditional trading model, investors have to wait for fiat money to be credited before they can trade, which can take hours or even days. Quantari Exchange's coin-to-coin trading feature allows users to trade instantly without waiting for fiat recharge, thus enabling them to seize market opportunities more quickly.

For example, suppose an investor holds Bitcoin (BTC) but is optimistic about the short-term upside potential of Ethereum (ETH). Under the traditional trading model, they would have to first convert BTC into fiat currency and then use the fiat currency to buy ETH, a process that could take longer. In Quantari Exchange's coin-to-coin trading, investors can directly exchange BTC for ETH and complete the transaction almost instantly, thus better seizing the opportunities brought by market volatility.



4) A rich selection of trading pairs

The coin-to-coin trading feature of Quantari Exchange not only simplifies the trading process but also offers a rich selection of trading pairs. The platform supports converges between a variety of mainstream and emerging digital currencies, catering to the needs of different investors. Whether it's exchanging Bitcoin for Ethereum or exchanging an emerging currency for a more stable one, investors can easily do it on Quantari Exchange.

In addition, Quantari Exchange constantly updates and expands trading pairs based on market dynamics and user demand. This flexibility enables the platform to adapt to market changes in a timely manner, providing investors with more trading opportunities.

5) Security and compliance guarantees

While coin-to-coin trading offers many conveniences to investors, security and compliance remain key concerns for investors. Quantari Exchange is well aware of this and has invested a lot of resources in technical security and compliance operations. The platform uses advanced encryption technology and security protocols to ensure the security of user assets and transaction data. At the same time, Quantari Exchange strictly adheres to local laws and regulations to ensure the legality and compliance of transactions.

6) Education and support

Quantari Exchange offers a wealth of educational resources and support services to help investors better understand and use the coin-to-coin trading feature. The platform has a dedicated education section that offers tutorials and articles on the basics of digital currencies, trading strategies, market analysis, and more. In addition, Quantari Exchange has a professional customer service team ready to answer investors' questions and provide technical support.





3.4 Staking Services

Staking service is one of the value-added services that Quantari Exchange offers to its users. It allows users to lock the digital currency they hold onto the platform in exchange for a certain amount of earnings. Such earnings are usually paid in the form of interest, similar to deposit interest in traditional finance. The core value of the pledge service is that it provides users with a way to increase the value of their assets without selling them. For example, suppose a user holds a certain amount of Ethereum (ETH) and they can choose to stake that ETH on the Quantari Exchange. Depending on the staking rate of the platform, users can earn corresponding ETH as interest income during the staking period. This income model not only provides users with additional income, but also avoids potential asset losses due to market fluctuations.

1) Enhance the liquidity of the digital currency

Staking services not only benefit individual users but also have a positive impact on liquidity in the entire digital asset market. In traditional financial markets, liquidity refers to the ability of an asset to be quickly converted into cash without affecting its price. Liquidity is equally important in digital asset markets, especially when market volatility is high. By staking services, users can lock their idle digital currency onto the platform, thereby providing a stable pool of funds for the platform. These funds can be used to support other trading activities on the platform, such as lending services or new currency subscriptions, etc. When users need funds, they can unstake at any time and retrieve their assets and interest. This mechanism not only improves the efficiency of the use of funds, but also enhances the liquidity of the entire digital asset ecosystem.

2) Support the stable operation of the platform

Staking services also play a crucial supporting role in the stable operation of Quantari Exchange. Through the staking mechanism, the platform can obtain stable financial support to maintain its day-to-day operations and expand its business. For example, the platform can use the staked funds to optimize trading systems, develop new features, or carry out marketing. In addition, the staking service provides the platform with a risk buffer. Staked funds can be used to support the platform's liquidity and ensure smooth trading when market volatility is high. This



mechanism not only enhances the platform's ability to withstand risks, but also provides users with a safer and more reliable trading environment.

3) Enrich investment strategies

Staking services offer investors a new option for investment strategies. In traditional investments, investors typically have to choose between holding an asset and selling it. Staking services offer a compromise where investors can earn extra income by staking without selling their assets. For example, investors who hold Bitcoin (BTC) for the long term can earn interest income by staking BTC while still retaining ownership of the asset. This strategy not only increases investment returns but also reduces the potential loss of assets due to market volatility. In addition, staking services can be combined with other investment strategies, such as short-term trading or hedging, to further optimize the portfolio.

4) Applicable scenarios and user groups

The pledge service is applicable to various investment scenarios and user groups. For investors who hold digital currencies for the long term, staking services offer a stable source of income that can increase the value of assets without selling them. For short-term traders, staking services can serve as a temporary money management tool to help them lock in assets during market volatility and avoid unnecessary losses. In addition, staking services are also available to investors who want to optimize their portfolios. By staking a portion of assets, investors can diversify their assets by using the funds for other high-yield investment projects. This flexible strategy not only boosts investment returns but also reduces investment risks.

Staking services are one of the value-added services that Quantari Exchange offers to its users, providing an additional source of income through innovative mechanisms while enhancing the liquidity of digital assets and the stability of the platform. Through the staking mechanism, users can increase the value of their assets without selling them, further enriching their investment strategies. Quantari Exchange ensures the security and reliability of its staking service through strict security measures and a transparent operating model. This innovative service not only meets the needs of investors, but also injects new vitality into the development of the digital asset market.



3.5 Lending Services

In the digital asset market, the timely allocation of funds is often a key factor in determining the success or failure of an investment. Quantari Exchange's lending service is designed to address investors' pain points in terms of capital demand, enabling them to seize market opportunities quickly when they arise, thereby enhancing investment efficiency and returns.

Digital asset markets are known for their high volatility and rapid changes. This trait, while offering investors huge potential gains, also places extremely high demands on the flexibility of funds. Investors may discover a highly attractive investment opportunity in a short period of time, but miss it due to insufficient funds. Quantari Exchange's lending service is designed to address this issue. With the lending service, investors can quickly obtain the digital currency or fiat currency they need without selling their existing assets. This service is not only available for short-term capital turnover, but also for investors who want to expand their investments. Whether you need funds for short-term trading or want to buy more assets during a market slump, Quantari Exchange's lending services can provide effective support.

1) Features of the lending service

Quantari Exchange's lending service has the following notable features:

- **Flexible funding options:** Quantari Exchange's lending service offers a variety of funding options, allowing users to choose digital currencies (such as Bitcoin, Ethereum, etc.) according to their needs. This flexibility enables lending services to meet the needs of different investors, whether they are looking for opportunities in the digital asset market or the traditional financial market.
- **Quick allocation of funds:** Time is money when market opportunities arise. Quantari Exchange's lending service ensures that funds can be quickly allocated to users by optimizing processes. Compared with traditional financial institutions, Quantari Exchange's lending service omits many cumbersome procedures, allowing users to complete lending applications and obtain funds in a short time. This rapid ability to allocate funds enables investors to quickly seize market opportunities and reduce the cost of missed



opportunities due to insufficient funds.

- **Strict credit assessment and risk control:** The security and reliability of lending operations are the top concerns for investors. Quantari Exchange ensures the sound operation of its lending business through a rigorous credit assessment and risk control system. The platform uses advanced data analysis techniques to conduct a comprehensive assessment of the credit status of borrowers, including transaction history, asset status, credit record, etc. Only users with good credit can access lending services, thereby reducing the risk of default. In addition, Quantari Exchange protects the interests of both lenders and borrowers through a variety of risk control measures. For example, the platform sets reasonable borrowing limits and collateral requirements to ensure that borrowers have sufficient assets as collateral. At the same time, the platform responds to market volatility by monitoring market dynamics in real time and adjusting lending rates and collateral value assessments in a timely manner.
- **A fair and transparent trading environment:** Quantari Exchange is committed to providing a fair and transparent trading environment for both lenders and borrowers. The platform's lending rates are determined by market supply and demand, ensuring the rationality of the rates. At the same time, the platform provides detailed lending records and transaction information, allowing both lenders and borrowers to check the lending status and the flow of funds at any time. This transparent operation model not only enhances users' trust in the platform, but also promotes the healthy development of the lending market.

2) Applicable scenarios for lending services

Quantari Exchange's lending service is applicable to a variety of investment scenarios:

- **Short-term cash flow:** Many investors may encounter short-term cash shortages when trading digital assets. Quantari Exchange lending services can provide investors with quick financial support to help them complete transactions in a short time.
- **Market opportunity capture:** The volatility of the digital asset market offers investors a lot of short-term profit opportunities. However, these



opportunities tend to be fleeting. Through Quantari Exchange's lending services, investors can maximize their returns by buying assets quickly when the market is at a low point or making short-term trades when the market is at a high point.

Portfolio optimization: For some long-term investors, they may wish to increase the diversity of their investment portfolios without selling off their existing assets. Quantari Exchange's lending services can help these investors obtain additional funds to purchase other potential digital or traditional assets, thereby optimizing their portfolios and reducing risks.

- Coping with market volatility: Volatility in the digital asset market also means that investors may face significant fluctuations in the value of their assets. Through lending services, investors can use collateral to obtain funds for hedging risks or adjusting portfolios. This strategy can help investors maintain the stable value of their assets in the face of market volatility.

3.6 SGD subscription

In the digital asset market, the rise of emerging digital currency projects often comes with huge opportunities. However, it is not easy for ordinary investors to get involved in early investments in these projects. Quantari Exchange's new coin subscription service is designed to address this issue, opening up an exclusive channel for users who are interested in emerging digital currency projects.

With the continuous development and innovation of blockchain technology, new digital currency projects are emerging one after another. These projects cover a wide range of areas, from decentralized finance (DeFi), non-fungible tokens (NFTS) to blockchain games. Many of these projects have great potential and innovative value, but also come with high risks. For investors, being able to get involved in a project at an early stage not only offers the opportunity to share in the dividends of its growth, but also gives them an edge in the market.

However, the quality and security of emerging digital currency projects vary. Many projects may lack sufficient technical foundations, market prospects or team support, and may even be at risk of fraud. As a result, investors need to be extra cautious when investing in new currencies. Quantari Exchange's new coin



subscription service, through a rigorous screening and review mechanism, screens out high-quality projects for users, reducing investment risks.

Quantari's new coin subscription service provides users with a secure and convenient way to participate in emerging digital currency projects.

- Partner with quality project partners: Quantari Exchange has partnerships with multiple quality project partners. These project teams are typically market-proven, innovative and promising teams. By collaborating with these project teams, the platform offers users the opportunity to subscribe to new coins. This partnership model not only provides financial support to project parties, but also offers investors access to early-stage investments.
- Strict screening and review mechanism: Quantari Exchange is extremely strict in screening and reviewing new coin projects. The platform's review team consists of industry experts, technical engineers and financial analysts who evaluate projects from multiple dimensions, including but not limited to: technical feasibility, team background, market prospects, legal compliance, funding plans, etc. Through these rigorous screening and review mechanisms, Quantari Exchange ensures the quality and security of new coin projects and safeguards users' investments.
- Offer early engagement: Quantari Exchange's new coin subscription service provides users with the opportunity to get involved in the project early. For many emerging digital currency projects, early investment often comes with the highest potential returns. By subscribing to new coins, users can buy tokens at a lower price in the early stages of the project's launch and share in the dividends as the project grows. Suppose, for example, an emerging DeFi project makes a new token subscription through Quantari Exchange, where investors can buy its tokens at a lower price before the project goes live. If the project performs well after going live, the token price may rise sharply and investors will make a considerable profit.

Suppose investor Bob is very interested in the blockchain gaming field. He participated in a new coin subscription for an emerging blockchain game project through Quantari Exchange's new coin subscription service. During the subscription process, Bob gained an in-depth understanding of the project's technical architecture and market prospects through the educational resources provided by the platform. Ultimately, the project went live successfully and



performed well after going live, with a significant increase in the token price. Bob not only reaped considerable profits, but also gained a deeper understanding of the blockchain gaming field by participating in the project.

Quantari Exchange's new coin subscription service offers users the opportunity to participate in emerging digital currency projects and help them share in the dividends of their growth early on. By collaborating with quality project sponsors and through rigorous screening and review mechanisms, Quantari Exchange ensures the quality and security of new coin projects. At the same time, the educational resources and support services provided by the platform help users better understand the new coin subscription service and enhance their investment decision-making ability. Whether it's early-stage investment opportunities, portfolio diversification, or industry research and learning, Quantari Exchange's new coin subscription service provides investors with a secure, convenient and efficient platform.





3.7 International Gold

In addition to comprehensive digital asset trading services, Quantari Exchange has innovatively launched international gold trading services, focusing on the demand of global investors for traditional precious metal investments. This move marks Quantari Exchange's further expansion of its business boundaries beyond digital assets, ushering in a new era of digital gold.

Gold, as a traditional safe-haven asset and store of value, has long been favored by investors around the world. Its scarcity, stability and value preservation function during times of economic instability have given it an important position in global financial markets. However, traditional gold trading often faces many inconveniences such as high transaction costs, difficulties in storage and transportation, and insufficient market transparency. Quantari Exchange has successfully overcome these traditional challenges by digitizing gold trading, offering investors a completely new gold investment experience.

On Quantari Exchange, investors can trade international gold as conveniently as they trade digital currencies. The platform uses blockchain technology to provide unalterable, transparent and traceable transaction records for gold trading, ensuring the authenticity and security of the transactions. At the same time, through digital means, transaction costs have been reduced, transaction efficiency has been improved, and gold investment has become more accessible and convenient. Investors do not have to worry about the storage and transportation of physical gold, nor do they have to face the complex traditional financial transaction process. They can easily participate in the international gold market through Quantari Exchange.

In addition, Quantari Exchange provides international gold trading services to global investors. Investors are not restricted by geographical location. They can easily access the platform and participate in the trading of the international gold market simply by connecting to the network. The platform connects to the global gold market, allowing investors to get real-time access to global gold price trends and seize investment opportunities in the international market.

The launch of digital gold trading not only meets investors' demand for gold investment, but also injects new vitality into the digital asset market. It combines



traditional financial assets with digital assets to create a whole new asset class - digital gold. This innovative form of asset not only has the safe-haven attributes and value store function of gold, but also the convenience, liquidity and innovation of digital currency. The emergence of digital gold offers more investment options for investors and opens up new directions for the development of global financial markets.

Quantari Exchange's digital gold trading service is also committed to promoting the globalization and digitalization of the gold market. By connecting investors and gold markets around the world, the platform promotes the optimal allocation of gold resources and enhances the efficiency and transparency of the market. At the same time, the trading data of digital gold provides market participants with richer information, which helps to better analyze and predict the trend of the gold market and provides investors with more valuable decision-making basis.





Chapter 4 Quantari Exchange Technology System

4.1 Overview of the technical architecture

The Quantari system architecture supports high concurrency, high availability, and high security to handle the transaction demands of a large number of users. The Quantari system architecture design is divided into the following layers:

- User layer: Includes the user interface (UI) and API interfaces, supporting Web and mobile (iOS/Android) access. The Quantari user layer interacts with the application layer via a RESTful API or WebSocket to enable real-time data updates and user operations.
- Application layer: including business logic such as user authentication, order management, transaction matching, risk control management, etc. The Quantari application layer is the core of the system and is responsible for handling all kinds of requests from users.
- Data layer: including relational databases (such as MySQL, PostgreSQL) and NoSQL databases (such as Redis, MongoDB) for storing user data, transaction records, market information, etc. The Quantari cache system is used to speed up data reading and improve system response speed.
- Network layer: Quantari provides secure and reliable network communication, using technologies such as load balancing, firewalls, and DDoS protection to ensure high availability and security of the system.
- Blockchain Layer: Interacting with the blockchain network and supporting the deposit, withdrawal, and transaction of multiple digital currencies, Quantari enhances efficiency through node cluster deployment.



4.2 Microservices Architecture

To enhance the flexibility and scalability of the system, Quantari adopts a microservices architecture. Separate different business modules as microservices, such as user management services, transaction matching services, fund management services, etc. Each microservice communicates via API, is independent of each other, and is easy to develop, deploy, and scale independently.

- **User management:** Implement basic functions such as user registration, login, and personal information modification to ensure the security and privacy of user data. At the same time, offer features such as real-name authentication and fund security to enhance user trust.
- **Asset management:** Supports operations such as depositing, withdrawing and transferring multiple digital currencies to ensure the security and liquidity of assets. At the same time, it offers features such as asset search and asset statistics to facilitate users' management of their assets.
- **Transaction management:** Implement order placement, transaction execution, cancellation and other transaction processes to ensure fairness and transparency in transactions. Increase the level of automation in the trading process through smart contracts and reduce the risk of human manipulation.
- **Market data:** Real-time updates on the prices, trading volumes and other information of various digital currencies, providing investors with a basis for decision-making. At the same time, analysis tools such as candlestick charts and depth charts are provided to assist users in market analysis.

The Quantari microservices architecture breaks down the various functional modules of the exchange into independent microservices, which are uniformly managed and scheduled through API gateways. This significantly enhances the system's scalability and maintainability, reduces the coupling between modules, and improves the stability of the system.

4.3 Order Services



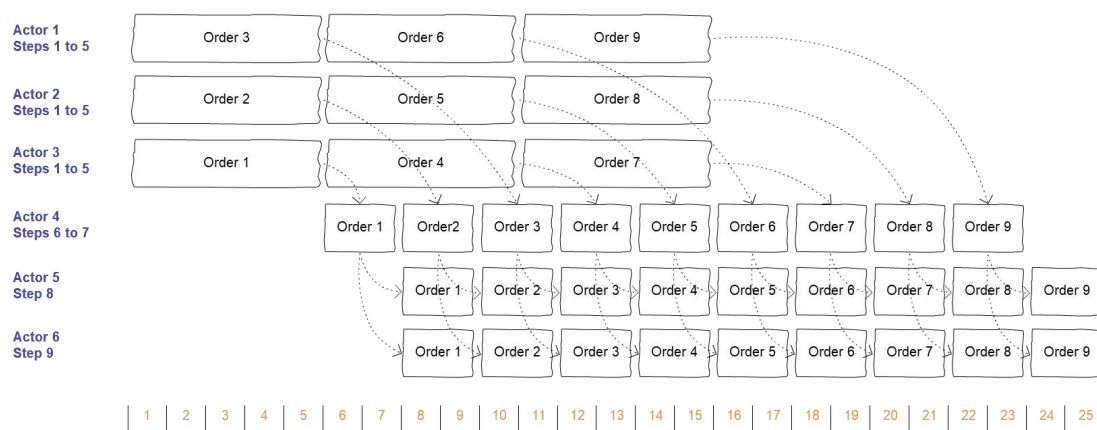
The Quantari Order Service contains the matching engine, which is responsible for matching orders and generating market data. In Quantari Exchange, orders are matched by trade pairs, so an ETH/BTC buy order will never match an ETH/USDT sell order. It is usually assumed that order matching for each trading pair is sequential, for example, the matching process must be single-threaded (one thread per trading pair). There are actually ways to parallelize certain parts of the process in order to increase the system's throughput. The order processing process includes the following steps:

- Order verification. This includes confirming that the trading pair is tradable, verifying that the price and quantity of the order meet the minimum requirements, and so on.
- Money checks. The purpose is to ensure that there is sufficient funds in the user's account for placing an order.
- Risk checks to avoid abnormal trading behavior
- Determine the Maker rate and Taker rate for the order based on rules that may be designed for trading pairs, order quantities, user levels, etc.
- Create order objects for matching processing and freeze the maximum amount of money that might be used in the account of the user who placed the order.
- Match the new order in the trade order ledger, and the result of the match could be: no match, partial transaction, or full transaction. When partially or fully executed, there may be one or more matching orders in the trading order ledger.
- Update and persist the account balance of the user of the executed order, update the trading order ledger.
- Persist other data triggered by successful order matching, such as: order execution records, funds transaction logs, etc.
- Generate market data and publish the updated data to the Front Server.

Assuming it takes 5ms from step 1 to step 5, 2ms from step 6 to step 7, 2ms for step 8, and 2ms for step 9. If the system receives almost 9 commission orders at the



same time, it would take $9 \times (5 + 2 + 2 + 2) = 99\text{ms}$ to execute all of the above steps using a single thread. However, in the above steps, only steps 6 and 7 actually require a single thread. If we use three actors for steps 1 to 5, one Actor for steps 6 to 7 to ensure that both are executed in a single thread, and one actor for steps 8 and 9, then the processing flow would be like this:



The total processing time for all 9 orders is now reduced to 25ms, compared to the 99ms required for the previous full serial processing.

The Quantari Order Service is an application feature developed using Akka and the Spring framework. It joins the Akka cluster as a node, and then the Front Server nodes in the cluster can discover it. When starting the order service instance, we can specify in the command-line parameters which trading pairs need to be processed. We can use a single order service node to handle all trading pairs, or use multiple order service nodes to handle different sets of trading pairs respectively. This means that the order service supports sharding by trading pairs. Due to the location-transparent nature of Akka system Actors, foreground service nodes do not need to care whether the order service is running on one node or multiple nodes, which gives the matching engine the ability to Scale Out horizontally.

If there are multiple order service nodes for a Trading Pair in the cluster, the foreground service node will always access the node that has recently joined the cluster. We can start an order service node A to handle the BTC/USDT trading pair, and then start a second order service node B to handle the BTC/USDT trading pair as well.



The foreground server will always send messages to the last order service node to join the cluster, so all foreground service nodes in the cluster will send BTC/USDT order messages to node B. If Node B is removed from the cluster at some point later, all foreground service nodes will be notified by the Akka cluster and will then send the BTC/USDT order message to node A.

Quantari uses this simple service discovery and routing protocol between the foreground service node and the order service node to achieve Hot Standby high availability for the order service. This simple protocol makes horizontal scaling and upgrading of the order service very easy.

For example, when a new order service needs to be deployed, we can keep the old version node running first and then start the new version node. Once the new version goes live, the foreground service node will automatically use the newly added node instead of the previous old version node, and then we just need to shut down the old version node.

To minimize order matching time as much as possible, the order service needs to Cache the entire transaction order ledger in memory. When there are multiple order service nodes in the system processing the same trade pair, exactly identical multiple copies of the trade order ledger are cached on different nodes. Quantari designed a simple but effective way to validate and synchronize in-memory delegation ledgers across multiple nodes.

The order service is also responsible for generating the following market data:

- K-line data at intervals of 1 minute, 5 minutes, 15 minutes, 30 minutes, 1 hour, 2 hours, 4 hours, 6 hours, 12 hours, 1 day, 1 week, 1 month
- market depth data for all trading pairs
- The latest bid for all trading pairs
- Most recently executed trading pairs

The Quantari order service stores this market data in the Redis service and synchronizes it to Redis servers in the foreground cluster through redis' replication mechanism, which then loads and pushes it to users who subscribe to the data.



4.4 Market-making services

Market making is crucial to the success of Quantari Exchange - especially for a newly established digital currency trading platform. If a Quantari Exchange doesn't have enough traders, the bid-ask spread is typically greater than that of cryptocurrency exchanges with better liquidity. Market makers add liquidity to the Quantari Exchange, narrow the bid-ask spread, and add depth to the trade order ledger, and these factors will also attract more traders to join.

Market makers can come from outside the Quantari Exchange and use the API provided by the Quantari Exchange to place buy orders (Bid) and sell orders (Ask) in the trading order ledger. For a newly established exchange, it itself also needs to provide liquidity for certain trading pairs, thus taking on the role of a market maker.

A basic market-making strategy involves placing both buy and sell orders at the same time, so that when both orders are eaten up by the market, the bid-ask spread is earned. Due to the sharp price instability of cryptocurrencies, market makers using this strategy can suffer heavy losses when the market price keeps moving in one direction. For example, a market maker places a buy order at 300 USDT for 1 ETH while placing another sell order at 301 USDT for 1 ETH. If both orders are executed, then the market maker makes a profit of 1 USDT. If the sell order is executed and the price continues to rise to 310USDT, then there is no chance for the maker's buy order to be executed in the short term, which leaves the maker facing a potential loss of 9 USDT.

The market-making module uses the order service and the trade order ledger of external exchanges, the effective funds of the market maker, etc. as input to generate a series of sell orders and sell orders at different prices. When any input changes, the output market-making orders change accordingly, causing corresponding changes in the trading order ledger. For performance reasons, the Quantari order service has built-in market-making support capabilities. The order service will treat orders from ordinary users differently from those from the market-making module - these market-making orders require very few resources and are therefore more dynamic. They can be added to the trading order ledger as a whole, or with some adjustments, or even removed from the ledger as a whole, without having to be treated one by one like the orders of ordinary users. At the



same time, these market-making orders can also be executed with user orders, and if any user's order can match these market-making orders, then the subsequent execution is the same as that of a regular order.

In addition to adding orders to the trading order ledger, the Quantari market-making module can also place orders with external exchanges and monitor the order execution status in external exchanges to achieve automated Hedging.

The Quantari market-making module is an application developed using the Akka and Spring frameworks. It connects to the order service node in the cluster and looks like an extension module of the order service - the order service doesn't need the market making module to run.

4.5 User Services

Quantari User Services provides user-related services for front-end servers, such as user registration, user authentication, KYC submission, password management, API key management, recharge address management, and more.

When the user service instance starts, it joins the Akka cluster, and the front-end service node will automatically discover the user service. We can start multiple user service nodes in the cluster. In this case, the foreground server sends messages to all live user service nodes in a round robin scheduling manner, ensuring scalability and high availability of the user service module.

Quantari user services have direct access to the core database as well as the redis cluster. It uses the services provided by wallet service nodes to create new blockchain addresses.

4.6 Wallet Services

The Quantari wallet service is not a single standalone application but consists



of multiple applications. This is mainly based on security considerations. As a consolidation, Quantari Wallet services:

- Generate new blockchain addresses for user accounts to receive recharges.
- Manage the private key of the hot wallet address held by Quantari Exchange.
- Create withdrawal transactions, sign them and submit them to the blockchain network.
- Connect to multiple blockchain networks, search and process recharge transactions, and track the execution status of withdrawal transactions.
- In some cases, consolidate cryptocurrencies scattered across numerous user addresses into the exchange's central hot/cold wallet.
- Verify the amount of money in the Quantari Exchange database to ensure consistency with the data on the blockchain.

Some of these functions are invoked by the user service module via the REST interface, some require access to the blockchain network, and others do not require access to the blockchain network or other modules, or even network access. Quantari split the wallet service into multiple applications based on its connectivity and security requirements, among others.

4.7 Underlying system Risk control

Quantari Exchange prioritizes security. Therefore, our system risk control mechanism will start from the following aspects:

1) Database read-write separation mechanism

In the early stages, system risk control typically ensures synchronization and read-write separation between the trading system database and the risk control system data by establishing mechanisms such as database master-slave replication, read-write separation, and Sharding. System risk control usually has only read permissions for the required customer/account data and transaction data, thus



ensuring the security and reliability of account data.

2) Cache/in-memory database mechanism

An efficient caching system is an effective measure to improve performance, typically storing frequently used data in caching systems such as Redis. Data such as risk control rules, risk control case libraries, intermediate result sets, black and white lists, preprocessing results, transaction parameters, billing templates, clearing and settlement rules, revenue-sharing rules, etc. For some high-frequency trades, in-memory databases are used for storage based on performance considerations (often combined with SSD hard drives).

3) RPC/SOA architecture

Reduce the coupling between trading systems and system risk control. In the early stage when system services are scarce, messaging middleware such as RabbitMQ/ActiveMQ or RPC is typically used to implement inter-system service calls. When the number of system services increases and service governance issues arise, SOA middleware such as Dubbo is used to implement system service invocation.

4) Composite Event Handling (CEP)

In real-time/near real-time trading risk control, the composite event processing (CEP) model offers better performance and scalability compared to purely rule-based processing models.

Quantari Exchange uses a central bank-level security system design, with technical requirements covering five dimensions: physical security, network security, host security, application security, and data security. The Quantari technology system is based on the concept of multiple protections. By establishing multi-level information systems, dividing computing environments, regional boundaries, communication networks and management centers, and combining operational systems and business status, regional protection is carried out.



Chapter 5 Future Ecological Layout

5.1 Development Planning

- **Launch APP Mobile: Quantari plans to launch its mobile application in the near future to meet users' need to trade anytime, anywhere.** The app will offer the same trading features as the web version, including spot trading, contract trading, etc., and optimize the mobile user experience. By offering convenient mobile trading services, Quantari will attract more users to join the platform.
- **Launch a global agent recruitment program: To rapidly expand its user base, Quantari will launch a global agent recruitment program.** Through a multi-level invitation rebate system, encourage agents to actively promote the platform and attract new users to register and engage in transactions. Agents can freely set the commission ratio for their subordinates based on their own strategies and needs, further enhancing the enthusiasm and effectiveness of promotion. Through this program, Quantari will rapidly expand its global user network.
- **Launch Platform Token Program: Quantari will issue a platform token to further expand its business model.** The platform token can not only be used as a medium of exchange within the platform, but also for paying transaction fees, participating in platform activities, etc. By offering a variety of application scenarios, the platform token will bring more value and convenience to users while generating new revenue sources for the platform.
- **Introducing more on-chain data risk control: Quantari will introduce more on-chain data risk control mechanisms, such as using on-chain K-line and wallet tracking, to enhance the platform's risk management capabilities.** By monitoring on-chain data in real time, the platform will be able to identify and guard against potential risks more accurately, ensuring the security and compliance of transactions.
- **Connecting third-party payment and fiat currency channels: To enhance user experience and market competitiveness, Quantari plans to connect third-party payment and fiat currency channels.** By working with multiple



payment service providers, the platform will support a variety of payment methods, including credit cards, bank transfers, etc., making it easier for users to top up and withdraw money. This move will significantly enhance the platform's user-friendliness and market appeal.

- **Forming a complete ecosystem based on platform tokens: Quantari will build a complete ecosystem through the issuance of platform tokens and the expansion of application scenarios.** The platform token will not only be used to pay transaction fees and participate in platform activities, but also to support other services and products of the platform, such as DeFi applications, NFT markets, etc. By forming a complete ecosystem, the value of the platform token will gradually increase as the platform develops and the user base grows.
- **Laying out Web3 exchanges/on-chain trading infrastructure: Quantari will be actively laying out Web3 exchanges and on-chain trading infrastructure to adapt to the development of blockchain technology and market demand.** By developing a high-performance on-chain trading system, Quantari will provide users with a more secure, transparent and decentralized trading experience. This move will give Quantari an advantageous position in the Web3 field and attract more users and developers to join its ecosystem.

5.2 Laying out public chain building

We will develop our own blockchain infrastructure in version 2.0 - the Quantari public chain.

The Quantari public chain will become the world's leading public chain system and blockchain infrastructure, as well as the world's leading third-generation superblockchain integration.

The Quantari public chain will transform the existing Blockchain technology and application ecosystem through Quantari Blockchain, Quantari Network, Quantari Services and shardchains, using a blockchain-like distributed structure to verify stored data, Use distributed nodes and consensus algorithms to generate and update data, and use cryptographic methods to ensure the security of data transmission and access. At the same time, the Quantari public chain will be



upgraded with the world's most advanced blockchain 3.0 technology and an original Dpos hybrid consensus mechanism. In terms of the consensus mechanism, the first hybrid Dpos mechanism of miners, notaries and guarantors, with 100 super nodes deployed globally, energy-saving and environmentally friendly, can achieve consensus verification in seconds, and the stability and security of the system have been enhanced as never before.

The core components of the Quantari public chain will consist of the following modules:

- A flexible multi-chain Blockchain platform (Quantari Blockchain or Quantari Blockchain) capable of reaching millions of TPS, with Turing-complete smart contracts, rule-upgradable formal blockchains that support multi-type cryptocurrency value exchange, support micropayment channels and off-chain payment networks. Quantari Blockchain offers some novel and unique features such as a "self-healing" vertical blockchain mechanism and instant hypercube routing that make it fast, reliable, scalable and consistent at the same time.

The peer-to-peer Network (Quantari P2P Network, also known as Quantari Network, or Quantari Network) is used to access the Quantari blockchain, send transaction requests, and receive blockchain updates of interest to users (for example, smart contract updates related to customer accounts). But it can also support any distributed service, whether on the blockchain or not.

- Distributed file Storage technology (Quantari Storage or Quantari storage), accessible via the Quantari network, is used by the Quantari blockchain to store archived copies of blocks and state data (snapshots), It can also be used to store any file of a user or other service running on the platform that uses streaming technology.
- Network Proxy/anonymous layer (Quantari Proxy or Quantari proxy), similar to Invisible Internet Project, is used to hide the identity and IP address of Quantari network nodes when necessary.
- A distributed hash table similar to Kademlia, used as a torrent tracker for Quantari storage or as an "input tunnel locator" for Quantari proxies and as a service locator for Quantari services.



- A platform that supports any service (Quantari Services or Quantari Services) can be accessed through the Quantari network and Quantari agents, similar to a browser or smartphone application that can interact with a unified formal interface. These formal interfaces can be published on the Quantari blockchain; The information published in the Quantari blockchain can be found by Quantari DHT to locate the actual node providing the service at any given moment. Services can be guaranteed by creating smart contracts in the Quantari blockchain.
- Quantari DNS, a service that assigns readable names to accounts, smart contracts, services, and network nodes.
- Quantari Payments, a platform for payment channels and micropayment channels networks. It can be used for fast off-chain value exchange, with payments made to Services supported by Quantari Services.

The Quantari public chain will be a general-purpose, well-supported, high-performance, easy-to-use, user-experience, scalable blockchain public chain infrastructure based on enhanced directed acyclic graphs to support the implementation of various on-chain applications. As a practical value interconnection blockchain infrastructure, it will offer a range of technical and functional features to support value mapping between the real world and the virtual world, and will surely provide feasible implementation paths for exploring and realizing value mapping as soon as possible.

In the future, the Quantari public chain will continue to focus on core technologies of blockchain infrastructure and platform layer, and build distinctive features such as an original fully distributed anonymous P2P network communication protocol, a new quantum-resistant cryptographic hash algorithm and signature algorithm, an original two-layer consensus and mining mechanism, support for transaction anonymity protection, and turing-complete smart contracts, It provides effective support for third-party asset issuance, cross-chain communication, multi-chain integration, etc. The Quantari public chain is bound to become the third-generation super blockchain public chain system for global digital asset links and lead to major breakthroughs in the third global public chain technology revolution.



5.3 Building a public ecosystem

As the world's top digital currency trading platform, Quantari will build more physical ecosystems around its trading business, including: Quantari Cloud, Quantari Charity, Quantari Blockchain Institute, Quantari Incubator, etc.

1) Quantari Cloud

Quantari Cloud will be a one-stop solution for exchanges based on the advanced technology underlying and system architecture of the Quantari public chain, supporting cloud deployment and standalone deployment, allowing third parties to set up their own exchanges with zero technology, independent backends, independent brands, and independent listing rights.

Affiliate sites based on Quantari Cloud can fully inherit the advantages of the platform in terms of efficiency, security, stability, etc., and can share trading depth among different countries and different sites, fully guaranteeing the liquidity of exchanges. Quantari Cloud is also a major strategy for the global compliance layout of the exchange platform, which will support more than a thousand self-operated and affiliate sites distributed in 100 countries and regions around the world in the future. These sites have obtained or are applying for exchange licenses in multiple regions and are opening up local fiat deposit and withdrawal channels.



Affiliate sites based on Quantari Cloud have certain payment thresholds and will also share transaction fees with the exchange platform, and even share equity or platform token rights of affiliate sites.

2) Quantari charity

In the future, at Quantari Global Technologies Inc. With our support, we will launch the Quantari Charitable Fund as a blockchain-driven fund to promote social philanthropy, aiming to redefine philanthropy by leveraging the transparency, efficiency, and accountability provided by blockchain technology to facilitate the achievement of global sustainable development goals. To realize the concept of charitable transparency, the Quantari Charitable Foundation will build a decentralized charitable platform that combines blockchain protocol technology to maximize the value of all participants in the charitable industry. The system will leverage decentralized technology to make traditional charitable activities more efficient, reduce intermediate costs, enhance transparency, and better monitor and evaluate the impact of charitable activities on the ultimate recipients.

At Quantari Charity, once the relevant conditions and requirements are set, the smart contract will execute automatically. For example, when the platform receives a request for help from a poor child, the system automatically generates a smart contract, which, after confirming its authenticity, provides a rescue plan. The amount of money, the steps to use the money, and the effect to be achieved will all be reflected in the contract. The entire contract can be operated automatically from collection to execution, and feedback on execution will be given automatically. The entire process does not require human intervention and is supervised by all parties involved, ensuring the smooth implementation of the project through the fully automatic model of smart contracts.

3) Quantari Blockchain Research Institute

The Quantari Blockchain Institute will be dedicated to building blockchain-based digital financial infrastructure and services, focusing on independent core technology research and development of blockchain, industry applications and governance model research; Leverage the underlying technology accumulation to empower the real economy with blockchain technology and tailor one-stop solutions to explore the maximum value of industry empowerment.

At the same time, Quantari Blockchain Institute will also provide blockchain



practitioners and developers with blockchain education, training, certification, tools and resources, putting Quantari Blockchain Institute's academic research at the forefront of blockchain research. At the same time, deeply explore and invest in high-quality ecosystem partners, promote the transformation of technological achievements, and facilitate the application of blockchain technology in the real economy; Build a high ground for the application of blockchain technology and make it accessible to the general public.

With the vision of "building a one-stop platform for blockchain + industrial services", Quantari will drive blockchain technology to empower the real economy, promote the healthy and orderly development of the blockchain industry, lead the industrial upgrading of the blockchain industry, and apply blockchain technology to various industry fields. The Quantari Blockchain Institute offers five professional services including consulting, research, training, technology and incubation to create a "blockchain innovation workshop", and four business segments to build a one-stop platform for blockchain and industrial services.

4) Quantari Incubators

In the future, Quantari will also support more promising projects through incubators to achieve rapid ecosystem fission. In our plan, the Quantari incubator is Quantari Global Technologies Inc. The global investment unit, which has four major functions including strategic mergers and acquisitions, strategic investments, asset management and external cooperation, and several special funds under it. Empower Quantari's global business with capital means and grow together with global partners for mutual benefit. As a result, the Quantari Incubator aims to incubate, invest in, and empower entrepreneurs and communities in the blockchain/digital currency industry. By supporting projects within the industry, help the blockchain ecosystem grow and unlock the maximum potential and social impact of blockchain technology, and promote the global adoption of digital currencies. Help turn great ideas that can change humanity into reality by incubating and directly investing in outstanding startup teams and quality projects.

For early-stage start-up teams and entrepreneurs who only have initial ideas and have not yet presented mature products and services. Our goal is to provide the best entrepreneurs with start-up capital and the necessary support to help them refine products that meet market demands, and combine the resources of the Quantari ecosystem to help them bring their products and services to market. In terms of project types, we will make multi-dimensional investments.



In other words, we don't race on a single track. Instead, we choose a combination of projects that we believe will be more valuable for the future of the industry. Some of these projects are infrastructure projects that will form their own ecosystems in the future, and some are projects that can be implemented in the near future and will inject confidence into the industry, etc.

5.4 Investor Protection Fund

To protect platform investors, the Quantari team will join forces with the world's top community to establish an investor protection fund. To avoid incidents that go against the blockchain's design philosophy, the foundation will help manage the general and privileged matters of community projects by establishing a good governance structure and system. The establishment of the foundation will refer to the operation of traditional entities and will consist of various functional committees, including the strategic decision Committee, the Technical Review Committee, the compensation and Nomination Committee, and the public relations committee.

The strategic decision-making committee is the highest decision-making body of the Foundation. The main purpose of its establishment is to discuss and address important decision-making matters faced in the development of the community, including but not limited to:

- Amend the governance structure of the foundation;
- Decisions on the formation and rotation of decision-making committees;
- Appointment and rotation of the Secretary-General of the Foundation;

Appoint and remove the executive director and the heads of each functional committee

- Review and revision of the Foundation's charter;
- Strategic decisions on Quantari's development;
- Changes and upgrades to Quantari's core technologies;



- Emergency decision-making and crisis management agendas, etc.

Members of the Strategic Decision Committee and the Foundation Chair serve a two-year term, and the Foundation chair cannot be re-elected for more than two consecutive terms. After the term of the decision committee expires, community representatives are elected by the community based on the consensus of the next generation of Quantari, and then the core members of the decision Committee are elected. The core members elected will make important and urgent decisions on behalf of Quantari and will be subject to credit investigations during their tenure and have their compensation made public.

Important matters are subject to a named vote by the decision Committee, with each member of the Decision Committee having one vote and the chairperson of the Foundation having two. A decision must be passed by a majority vote of all current members of the committee. In addition, the executive director shall convene a temporary meeting of the decision committee within five working days in any of the following circumstances:

- When the Secretary-General of the Foundation deems it necessary;
- When proposed jointly by more than one-third of the members of the decision-making committee.

Decisions committee meetings shall be attended by members of the committee themselves. If a member is unable to attend for any reason, he or she may entrust in writing another member of the committee to attend on his or her behalf. A person who does not appoint a representative shall be deemed to have waived his right to vote at the meeting.



Chapter 6 Disclaimer

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