



WDC Quantify

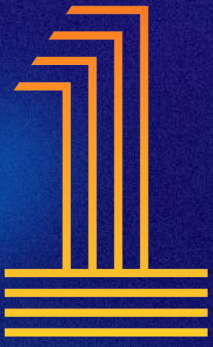


**The world's leading cryptocurrency
intelligent service ecosystem**

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Chapter 1

Overview of Market Development





Chapter 1

Overview of Market Development

1.1 Digital currencies drive the digital economy boom

Blockchain, digital currency and innovation represented by the digital economy are global, and this transformation that integrates technology, industry and financial industry has formed an irreversible situation. The value of blockchain to build a trusted data sharing environment has been recognized by many parties, and the demand for various institutions to use blockchain for trusted storage has gradually emerged.

Satoshi Nakamoto published the article "Bitcoin: A Peer to Peer Electronic Cash System" in 2008, which put forward the concept of bitcoin and blockchain technology for the first time, and built the technical basis for the secret transmission of transaction information and the bitcoin network through the blockchain technology. In just a few years, bitcoin has become a legal and tradable asset (or commodity) worldwide. It has vast liquidity, trading and using more than billions of dollars in bitcoins a day. This exceeds the gross domestic product of most sovereign countries. In fact, bitcoin is now worth more than Goldman's.

Nearly 20 million of them are in circulation. Bitcoin is just one of more than 10,000 cryptocurrencies for people to buy, use and trade. According to incomplete statistics, at the beginning of 2013, there were only 2 million blockchain or encryption users worldwide. Since the beginning of 2017, the number of blockchain users of various tokens has continued to exceed 20 million. In 2020, the global blockchain users exceeded 200 million, and it is expected to exceed 1 billion users by 2025. At present, the total market value of global digital assets has exceeded 1 trillion dollars, and the daily transaction size exceeds \$100 billion, of which the proportion of bitcoin transactions has decreased from 90% to 33%. This transaction data compared with the global financial market daily transaction size of more than \$5000 billion, the digital asset market has a large room for development. In addition, according to incomplete statistics, the owners of global digital assets are about 20 million, and compared with the more than 1 billion stock users, the user scale of digital assets will also have a huge space for development.

With the maturity of blockchain technology and the popularity of digital currencies, the digital economy has also gained better support. Digital currency is the cornerstone of the development of the digital economy. Developing digital economy and promoting digital development has become an irreversible trend, and digital currency has gradually replaced paper currency with a solid technical foundation, and is more suitable for the needs of the future development of digital economy. The main innovation point of blockchain is to solve the two inherent problems of the traditional Internet, namely, the problem of "data island" and the problem of "data right confirmation". At the same time, on-chain governance and smart contract are the innovation of the governance form of blockchain itself. Digital currency is deeply reconstructing the social and economic value system.

First, from control to autonomy. The distributed nature of blockchain will weaken authoritarian values such as hierarchy, closure and control, and strengthen autonomous values such as equality, openness, collaboration and sharing. Secondly, the incentive for new forms of production brought about by digital currencies will also reinforce the shift in autonomy values. As Tapscott argues, blockchain will facilitate a shift from traditional capitalism based on hierarchy and control to a new type of capitalism of "sharing, cooperation, crowdfunding and self-organisation", where values such as creativity, democracy and participation will be strengthened.



Secondly, from efficiency to equity. The traditional Internet is cost-driven, and its fundamental goal is to achieve economic benefits through information intermediation with maximum efficiency, while the blockchain will make the fundamental goal of the Internet to protect transactions, create value and ensure fairness, legitimacy, security and privacy of transactions, ultimately making integrity and fairness the core values. Finally, from matter to relationship. When the Internet was first born, scholars predicted that information would replace electricity and oil as the axial element of the social economy. Blockchain will further change the order of value, with openness replacing channels, products, people and even

intellectual property as the key to organisational success, with "links" rather than "possessions" and "network relationships Links" rather than "possessions" and "network relationships" rather than "closed structures" will become the source of value. Thus, the digital economy based on blockchain and digital currencies has led to three windfalls.

- The first windfall: Blockchain was born at the end of 2008 and has lasted 14 years. Countless miracles have been created, led by Bitcoin.

- The second windfall: it took place around 2015 and focused on the second generation of blockchain technology. The scope of its application was enhanced by applying smart contracts to blockchain technology. A series of public chains, represented by Ethereum, were born.

- The third windfall: With the widespread popularity of the pass-through economy and commercial platforms, the linking of real businesses is accelerating. Traditional business models and management thinking are no longer applicable, and the formation of distributed business laws and the basic sense of the pass-through system has pointed the way for enterprise chain reform.

Every change in technology is a new round of wealth restructuring. With the integration and development of blockchain, digital currency and digital economy, the new thinking it brings creates higher business value, thus solving many problems in the process of enterprise transformation and entrepreneurship. As a result, the real economy (including the Internet industry) is applying blockchain technology in practice to improve the pain points in its own operation. A large number of companies have already started to lay out around blockchain and the digital economy, which will surely bring a new wave of wealth boom.



1.2 The fusion of blockchain and AI

In recent years, there have been many major breakthroughs that have been made in the field of artificial intelligence (AI), and a global wave of research and application has been sparked. Artificial intelligence has now penetrated into every gap in human society, and will become an important cornerstone to promote the change of human society. The huge data proves that the future market prospect of AI is promising. As the core driving force of the new round of industrial transformation and a strategic technology leading the future development, governments of all countries attach great importance to the development of artificial intelligence industry.

At the same time of the breakthrough in the technology and application of artificial intelligence industry, the field of artificial intelligence has won the favor of capital, become the tuiyere industry, and entered a period of rapid progress with the coordinated support of capital and technology. The level of artificial intelligence is based on machine learning. In addition to advanced algorithms and hardware computing capabilities, big data is the key to machine learning. Big data can help to train machines and improve their intelligence level. The richer and complete the data, the higher the more accurate the machine identification, so big data will be the real capital for enterprises to compete. We believe that big data is the nourishment for the progress of artificial intelligence, and is an important foundation for the construction of artificial intelligence building. By learning a large amounts of data, the machine judgment processing ability continues to rise, and the intelligence level will continue to improve.

Since the emergence of artificial intelligence, it has received wide attention and strong support from various industries. It greatly facilitates the life and study of human beings, and brings new possibilities for the development of science and technology. But while AI technology continues to improve people's quality of life and promote scientific research, it also poses troubling problems. Such as: data monopoly, limited computing power, lack of algorithms, technology abuse, privacy leakage, etc. The emergence of blockchain technology brings new opportunities to the solution of the existing problems in artificial intelligence. With the continuous in-depth research of blockchain technology, researchers took advantage of the advantages of blockchain technology to improve the difficulties in the development of artificial intelligence technology and achieved good results.

1) Blockchain can facilitate data sharing

Data is the core driver of AI development and the fuel of AI. Data is shared by everyone in order to have richer data to offer, data can only create greater value if it flows more efficiently, data can only be owned by real providers in order to protect data ownership and incentivise people to provide it, while ensuring that it is reliable and authentic, and only data power is more easily exchanged in order to enhance efficiency. And all of this requires a fair, incentive-based mechanism to achieve. The blockchain itself has a depository, unmodifiable and economic incentive mechanism to provide a good solution.

2) Blockchain and identity and security

Blockchain will enhance the security mechanisms of AI: it will help AI to achieve contract management and improve the user-friendliness of AI. For example, allowing users of the device to register on the blockchain, enabling different levels of user access through smart contracts, and providing personalised features for different levels of users. Blockchain ensures that devices can be accessed in a hierarchical manner through user registration, which not only prevents misuse of the device, but also prevents users from being harmed. Common ownership and common access to devices can be better achieved through blockchain, which will allow users to jointly set the state of the device and make decisions based on smart contracts.

3) Blockchain and AI value exchange

The blockchain itself has the characteristics of openness, fairness and transparency, and the transactions in the blockchain are more transparent, so building a more transparent transaction market based on the blockchain will be more fair, and at the same time, due to the characteristics of universal participation, a broader platform will be built, which is conducive to the reciprocal exchange of value. The exchange of AI, data and the embodiment of value are more easily realized in the blockchain world, eliminating the information asymmetry and barriers to transactions. This eliminates information asymmetries and barriers to transactions, as is now the case with Bitcoin, for example. This will undoubtedly facilitate the accelerated flow of AI and data, and will facilitate more people to participate in the provision of AI and data. Blockchain transactions make extensive use of smart contracts, which are essentially an automatically executing machine, a kind of mechanization and automation of transactions. This mechanism is ideal for transactions in AI-related products, such as data provided to algorithms or models, where the results of different AI calculations are similarly datamined and the exchange process is automatically executed through smart contracts, accelerating and optimising the transaction process and making it more conducive to AI. At the same time, the blockchain itself has the incentive mechanism, through TOKEN and so on it is easy to achieve the value of the metric.

4) Computing power sharing and assistance

The current Bitcoin network or Ethernet network is undoubtedly a huge pool of computing power. Machine learning, especially deep learning algorithms, requires a large amount of computing overhead, while deep learning and neural network algorithms themselves require multi-node computing collaboration, the blockchain itself is a distributed computing resource, while the decentralization and incentive mechanism of the blockchain can better manage and share computing resources, not only. The decentralization and incentive mechanism of blockchain can better manage and share computing resources, not only using the computing resources in data centres, but also collaborating and sharing the idle and scattered computing resources to build a larger and more convenient pool of computing resources for transactions.

With the development of 5G and IOT, discrete computing resources such as edge computing and fog computing need a broader and more trusted management network. Blockchain provides a shared, transparent and transactable computing environment that can organise these resources. Therefore building a decentralized resource pool with blockchain, while achieving trustworthy and value-based management, can better utilize various computing resources, whether they are cloud computing resources or discrete computing resources.

5) Blockchain provides a safe and reliable development environment for AI

Blockchain's smart contract and smart transaction mechanism can well play the functions of privacy protection and data opening and data fusion, and can make the data transaction information subject in an encrypted state. At the same time, due to the non-tamperability of blockchain records, it can also facilitate people's enquiry and supervision of AI device records, and enhance people's trust and acceptance of AI. In the era of data supremacy, people can extract a lot of valuable information from data. Blockchain and technology can both secure the data and assist in extracting valuable information. Blockchain can therefore play a crucial role in improving the information leakage problem that exists with artificial intelligence.

In the crypto space, the integration of blockchain technology with AI technology then provides the technical and algorithmic support for quantitative trading.



1.3 The rise of quantitative trading

In the context of the digital age, with the extensive application of big data, artificial intelligence, cloud computing and blockchain technologies, the so-called "quantitative revolution" has also appeared in the financial market. Quantitative and program trading has become more and more popular trading mode in financial institutions. In the past half century, many mathematicians have tried to intelligently and automate investment business, and quantitative methods as early as the 1950s. Due to the lack of powerful database resources and computer tools, many ideas have not been applied. But it improved dramatically after the Internet revolution in the 1980s and the data explosion in the 1990s. Hedge fund managers, represented by Simmons, seized the opportunity of this digital technology revolution and launched a "quantitative revolution". The rapid development of digital resources, artificial intelligence and algorithm technology has brought about the knowledge revolution and the continuous improvement of investment methods, and further led to the explosion of data volume. In addition, with the nature of capital seeking profit, the scale of quantitative investment continues to expand.

Against the backdrop of the COVID-19 pandemic, various contradictions and problems accumulated in the global economy and finance in the past decade have become increasingly obvious, the real industry, residents' confidence, social governance and other fields have been under all-round shocks, the international financial market has been volatile, and various black swan events have emerged in an endless stream. In the future, the global economy is likely to continue to fall into recession, and at the worst, it could even enter a prolonged depression. Bitcoin and its underlying blockchain technology, created in the wake of the global financial crisis, have already triggered a wave of innovation that has changed the way assets maintain and increase value. At present, the market generally believes that the market share of the mainstream digital currency has been to seize the market, and the derivative field based on digital currency is also skyrocketing. Digital currency quantitative financial management market —, a trillion-level huge blue ocean market is rising!

1) outsider

Ordinary investors often fall prey to market volatility because they have no investment tools. Every retail investor, in the face of returns and risks, may make investment decisions isolated and stranded in greed and fear. And every company that receives crypto asset financing, after the bull and bear rotation, will be glad or painfully realize that crypto asset management is related to the company's financial situation and even survival.

2) Quantitative investors

Most crypto asset investors, when facing the 7×24 crypto asset market with professional investment teams, prefer to entrust professional quantitative investment institutions to make quantitative

investments with their own funds due to the lack of investment capabilities and quantitative investment tools of professional investment institutions. With the leap forward in financial big data technology, quantitative investment funds, which leverage modern statistics and computer science methods to find high probability winning opportunities from massive amounts of data, have shown unique advantages in the volatile market. Take Bitcoin for example, Bitcoin trading has the following characteristics that make quantitative trading a great fit with Bitcoin trading

- No stop limit; 24*365 non-stop trading; extremely low threshold, 10 or 20 bucks is fine, users can apply for the exchange API.
- No limit on the number of transactions, no commission on spot.
- A booming market, with active futures and spot markets.
- There are many bitcoin trading platforms, which have more arbitrage operation opportunities for quantitative investment.

Bitcoin is only one of thousands of digital currencies. With the prosperity of the digital currency market, more people are exposed to more high-value currencies, and the era of intelligent quantitative trading is close at hand.



1.4 Smart trading — quantitative strategy

1) Quantitative Trading Strategies

Quantitative trading refers to the process of replacing human subjective judgement with advanced mathematical models, using computer technology to select from a large amount of historical data a variety of "probable" events that can bring excess returns in order to develop strategies, and using certain mathematical models to implement investment concepts and achieve investment decisions. In this process, it is important to reduce subjective factors, reduce the impact of investor sentiment and avoid making irrational investment decisions in the event of extreme market frenzy or pessimism. The main features of quantitative trading are as follows.

- Broad investment perspective: With the efficient and accurate processing of starfish information by computer, go for a wider range of investment opportunities in all markets.

- Discipline: Strict discipline is an important feature that clearly distinguishes quantitative trading from active investing. Investment decisions made by quantitative trading models are strictly enforced, rather than modified at will as trader sentiment changes. The benefits of discipline are many and can overcome human weaknesses such as fear, greed and fluke, as well as cognitive biases.

- Systematic: The systematic nature of quantitative trading mainly includes multi-level quantitative models, multi-perspective observation and observation of massive amounts of data. Multi-level models mainly include sector selection models, broad asset class allocation models and selected individual stock models, etc. Multi-angle observation mainly includes analysis of macro cycles, valuations, growth, earnings quality, market structure, analysts' earnings forecasts and market sentiment from multiple perspectives.

- Timeliness: Timely and rapid tracking of market changes, constantly identifying new statistical models that can provide huge returns and going for new trading opportunities.

- Arbitrage thinking: quantitative investing captures opportunities arising from mispricing and misvaluation through comprehensive and systematic scanning, thereby identifying valuation pockets and profiting from buying undervalued assets and selling overvalued ones.

- Probability to win: Firstly, quantitative investment constantly mines historical data for patterns that are expected to repeat and exploits them; secondly, it relies on a portfolio of assets to win, rather than individual assets to win.

2) Grid trading strategy

Grid quantitative is a high frequency programmed automatic trading, is one of the many quantitative trading strategies. Dow Theory states that price movements in financial markets can be divided into three situations, namely up, down and bull. And in the process of rising or falling there are also continuous fluctuations on shorter cycles, with prices eventually presenting themselves either as trendless fluctuations or as short-term fluctuations and long-term trends. In the foreign exchange market there is a trading concept known as grid trading method, this concept believes that in a certain time period, the price is basically in a state of reciprocal fluctuations, investors can trade with a higher frequency and use limit orders to gain the benefits of price fluctuations.

The grid trading method, applicable to oscillating markets, is to buy low and sell high. This is done by dividing the capital into n shares, with a single trade of a fixed amount, initially opening a position and then setting a percentage or spread to determine the width of the grid, for example 5%, buying one share if the price of the currency falls by 5%, selling one share if it rises by 5%, and so on. The above grid trading strategy requires the use of analysts to set parameters without the use of historical data. The analyst sets the upper grid edge, lower grid edge, grid pivot, grid width and single trade size, and then automatically executes the grid plan to buy low and sell high repeatedly for profit. In some special cases, the process of setting up a grid trading strategy supports unequal splitting of funds, such as increasing the single trade amount by a certain percentage, e.g. 10%, for every grid down, thus extending into a Martin strategy.

3) Arbitrage Strategies

- Move arbitrage: Move arbitrage is also one of the most used strategies in quantitative trading platforms. It is a low-risk arbitrage with very low arbitrage risk itself. The software captures the spread between different trading platforms for the same currency, buying on the platform with a low price and selling on the platform with a high price to earn the difference.

- Spot and Cross-Period Arbitrage: Spreads will exist between the spot and futures of an underlying trade on the same trading platform and between the current week, next week and quarterly contracts for that underlying. Cash and futures arbitrage is the use of the spread between spot and futures to make a reverse operation in futures and spot to earn the difference. Similarly, cross-period arbitrage is the use of the spread between different contracts to make a reverse operation in the contract to earn the difference.

- Statistical arbitrage (cross-currency arbitrage): is an arbitrage that takes advantage of the historical statistical pattern of asset prices and is a risk arbitrage where the risk is whether this historical statistical pattern will continue to exist for some time to come. The main idea of statistical arbitrage is to first identify a number of pairs of investments with the best correlation, for example, BTC and ETH have a strong positive correlation. When the price difference between BTC and ETH deviates to a certain level, you start to open a position, buy the relatively undervalued variety and sell short the relatively overvalued variety, and then take profits when the price difference returns to equilibrium.

1.5 WDC Quantify Birth

Currently, intelligent custodian trading and quantitative arbitrage trading are generally tested by means of massive data simulation tests and simulated operations, and positions and capital allocations are made based on certain risk management algorithms to minimise risk and maximise returns, but there are often certain potential risks, including.

- Completeness of historical data. Incomplete market data may lead to a mismatch between the model and the market data. Style shifts in the market data itself may also lead to model failure, such as trading liquidity, price volatility, and frequency of price fluctuations, which are currently difficult to overcome in quantitative trading.

- Models are not designed with position and capital allocation in mind and without safe risk assessment and precautions, which may lead to a mismatch of capital, position and model and a blow out.

- Network outages and hardware failures may also have an impact on quantitative trading.

- Risks arising from homogeneous models generating competing trades.

- The risk of unpredictability due to a single investment vehicle.

Based on this, WDC Quantify aspires to solve the pain points of the industry through the application of multi-strategy combinations and intelligent algorithms, distributed storage, and edge computing, and create a new value-earning space for intelligent custodian trading, arbitrage trading and investment bands for digital currencies.

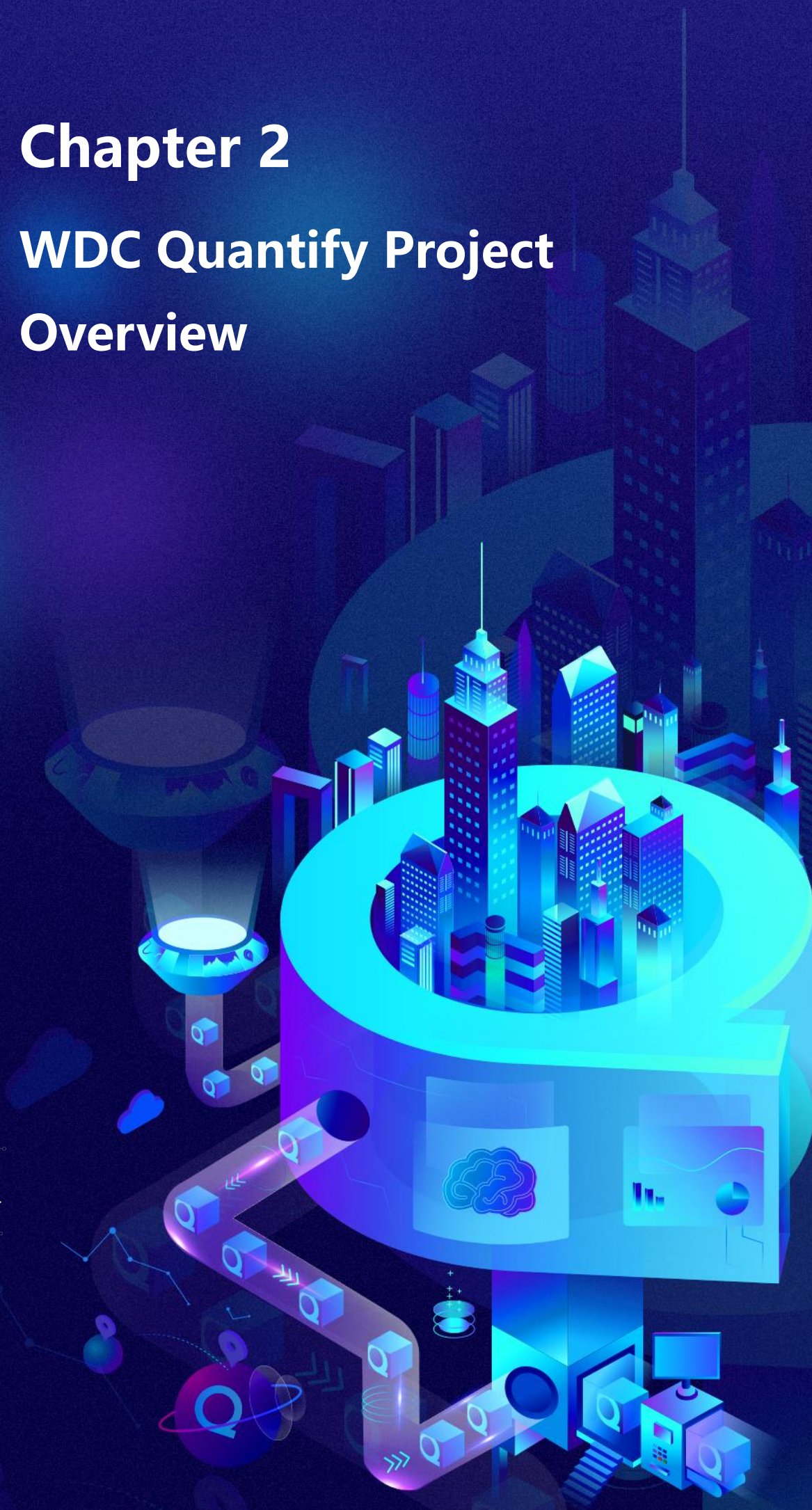
At present, intelligent custodian trading and quantitative trading, as the main form of digital currency intelligent finance, is being accepted by more and more users/investors, with a broad market prospect. WDC Quantify has pre-empted the layout and created the WDC Quantify cryptocurrency AI quantitative investment platform, with a view to creating higher value returns for global users in this blue ocean market, so that every participant can hold and gain from their cryptocurrency holdings.



Chapter 2

WDC Quantify Project

Overview





Chapter 2

WDC Quantify Project Overview

2.1 WDC Quantify Company Profile

WDC Quantify was founded in 2017 in London, UK, under the name World Data Center Quantify, and is dedicated to global blockchain technology development, innovation, cryptocurrency trading services, asset custody, and network security and operations. WDC Quantify has won numerous awards from the Global Blockchain Consortium for innovation in technology, and has achieved a level of success that few companies in the blockchain space have achieved.

Since its inception, WDC Quantify has continued to increase its share of the global cryptocurrency investment market, setting new all-time bests and creating one business miracle after another. With a global user base of over 1 million and an average daily peak of 300,000 active users, WDC Quantify has become a well-known global blockchain company that has not only contributed to the rapid development of the global blockchain sector, but has also become a pioneer of the innovative revolution in the global blockchain sector.

"Let technology shine the light of life" is not only the slogan of WDC Quantify, but also the mission of WDC Quantify. We are committed to building an intelligent cryptocurrency custodian trading system with "WDC Quantify's characteristics" and are dedicated to improving the efficiency and accuracy of cryptocurrency trading for every user. We are dedicated to improving the efficiency and accuracy of cryptocurrency trading for every user, eliminating the tedious process of manual trading and maximising returns scientifically.

After six years of solid development and growth, WDC Quantify has now become a well-known company in the global blockchain sector, showing strong competitiveness in the industry, continuing to set new all-time highs in market share and increasing its overall strength, WDC Quantify has become a leader in the field. The many notable achievements are the result of the hard work and dedication of all members of the team, which has made WDC Quantify a business miracle day in and day out. Now and in the future, WDC Quantify will continue to work together with its members to pursue higher

achievements and glory.

With the rapid development trend of global blockchain, in the near future, the wave of intelligent trading mode of cryptocurrency will definitely sweep the global cryptocurrency investment market and become the first choice of cryptocurrency investment enthusiasts around the world, and WDC Quantify's intelligent custodian trading system will also become the vane leading the global blockchain field.



2.2 Business category

WDC Quantify is based in London, UK, with operations in the UK and the entire European market. With the mature use of 4G technology and the advent of 5G technology, it has accelerated the promotion and coverage of the blockchain technology and cryptocurrency investment wave worldwide. WDC Quantify is now available in the UK and Europe, as well as in Asia, South America, North America, and the Middle East, among other major economies.

WDC Quantify will provide cryptocurrency investors around the world with the most scientifically sound and intelligent way to manage their money, as well as professional and secure digital asset trading and management services, to enhance the cryptocurrency investor's connection to the cryptocurrency market and trading efficiency through the power of science and intelligence.

- WDC Quantify is one of the first companies to research digital currency quantitative trading, and is far ahead in the field of digital currency quantitative, trading. Dedicated to making it possible for the general public will have access to the financial value embedded in their financial assets, users of financial services will have access to services at a lower cost, and the entire financial system will be run much more efficiently and at a much lower cost.

- The digital currency business systems that WDC Quantify has participated in or developed in-house have served over 10 million users in many countries around the world. WDC Quantify's digital currency storage and exchange projects enable the unified management of multiple blockchain assets, one-stop management, decentralised services, multiple security guarantees and multi-language support functions.

WDC Quantify's business also includes innovative businesses such as cloud services, digital media, and its cryptocurrency derivative industry. In addition, it also aims to create digital payment services and digital financial services for investors and cryptocurrency merchants. At the same time, WDC Quantify strives to become a global cryptocurrency investment market with 10 million users, and to build a WDC Quantify-specific industry ecosystem that seamlessly integrates investors, digital exchanges, and strategic partners around WDC Quantify and market characteristics.



2.3 Intelligent custody and trading system

With the high growth rate of cryptocurrency investment, it continues to refresh its share share of trading in global financial investment products, creating a substantial exchange rate space in the huge daily trading volume worldwide. However, the existence of numerous cryptocurrency trading institutions around the world and the tedious process of manual trading does not accurately capture the ever-changing nature of the market. As a result, the traditional manual trading model is not only time consuming and labor intensive, but also does not ensure the desired trading returns and even faces losses when the exchange rate price encounters significant fluctuations.

In this environment, the WDC Quantify intelligent custodian trading system was born. The birth of this trading model not only marks the advent of the global cryptocurrency intelligent trading model, but also accelerates the wave of the global mobile digital economy.

The advantages of the WDC Quantify Intelligent Custodian Trading System are clear.

- As a pioneer in the global cryptocurrency investment market, WDC Quantify has not only a mature blockchain technology team, but also a financial investment and asset management team with rich practical experience, providing the best quality of stable asset appreciation services 24 hours a day, so that every asset can be operated under the scientific and intelligent trading system to achieve the maximum return. Maximisation.

- The scientific and intelligent trading model not only eliminates many tedious trading processes, but also captures the real-time quotes of major trading institutions and captures the best time to trade at each time through the system's intelligent screening, ensuring that each trade can be bought when the exchange rate is relatively low and sold when the exchange rate is relatively high, making it easy to trade profitably.

- Users can easily earn the corresponding percentage of commission by simply activating the intelligent trading button each day, eliminating the need to waste time waiting for the right time to trade and comparing prices with various trading institutions, making it easier to grow your wealth.

WDC Quantify's intelligent trading system combines the amount of money invested by each user, the fluctuation of the market during each trading period, the exchange rate of each trading institution, and the price of each cryptocurrency. WDC Quantify's intelligent trading system combines the capital invested by each user, the fluctuation of the market in each trading period and the exchange rate of each trading institution to develop the best trading strategy after scientific screening and calculations. At the same time, WDC Quantify's funds are subject to strict supervision by the funds regulators of each regional market to ensure the safety and security of each fund, allowing users to choose WDC Quantify

with greater confidence and boldness.

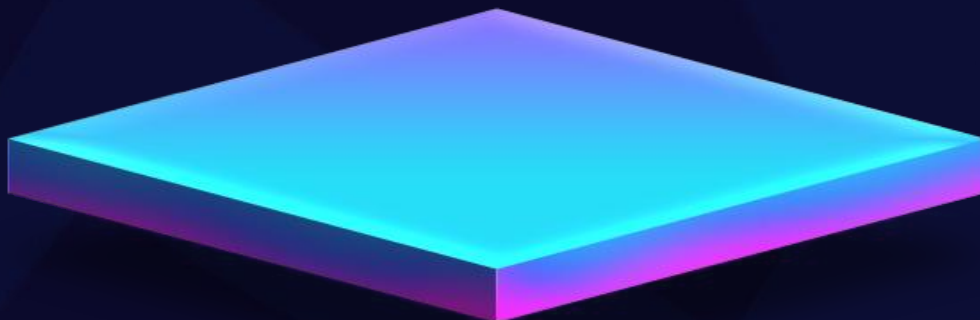
WDC Quantify's solid business model also provides additional protection for its customers by forming a "win-win" partnership with them.

WDC Quantify's intelligent custodian trading system provides users with a steady increase in asset value, but only shares 50% of the proceeds from each transaction, with the remaining 50% going to the user. In order to ensure that each user achieves stable wealth appreciation, WDC Quantify will cover 100% of the amount of losses caused by extreme fluctuations in market conditions due to major issues such as war, politics and disasters, in order to build a reputation as the most trustworthy and honest company.

In addition, WDC Quantify is not just a single trading model of buying low and selling high, WDC Quantify will also provide users with more professional skills training and various official activities to enhance the practice and active participation of users, not only to help users earn more extra wealth, but also to gain more fun and achievements. It is a way for every user to appreciate the power of scientific asset management, to help every user remain competitive in a fast moving society, to make assets gain faster than they depreciate, and to show the value of assets far beyond the assets themselves.

Since its inception, WDC Quantify has always taken into account the characteristics of the market and constantly upgraded its intelligent trading system, only to create the most scientific and intelligent trading system, helping cryptocurrency investment enthusiasts to easily achieve a seamless trading environment with the major global trading institutions. WDC Quantify's unique intelligent custodian trading system and zero-risk capital security guarantee WDC Quantify has become the most trustworthy asset custody trading service platform for users and, with continuous development, WDC Quantify is bound to occupy an absolute dominant position in the entire cryptocurrency investment market.

WDC Quantify is not only a stable way to add value, but also a safe and secure way to protect today's digital asset trends, and to ensure that every user's capital can be steadily added to and secured.



2.4 Future development

With the global popularity and promotion of blockchain technology, cryptocurrency has rapidly become the hottest financial investment product since its birth, and has been closely watched by global investment users, and has continuously broken through the market share of major financial investment products worldwide, becoming the first choice of the global financial investment crowd.

The rapid development of the global cryptocurrency investment market has created a golden period of development for global blockchain technology that is unavailable. According to the analysis of the market data of the past three years by researchers of well-known financial investment institutions, the world blockchain market will continue to maintain a high growth rate in the next five years, and the market scale growth rate will continue to be as high as 50% from 2023 to 2028, and the market scale will reach trillions of dollars in 2028, and the world blockchain industry market scale is expected to exceed trillions of dollars in the next 20 years.

In order to enhance the comprehensive competitiveness of the enterprise and achieve sustainable development, WDC Quantify has been continuously recruiting outstanding talents since its establishment to inject more talent reserves for the sustainable development of the enterprise. WDC Quantify also actively cooperates and exchanges with companies in the same field to learn and share their experiences and research results, contributing to the stable and healthy development of global cryptocurrency investment market.

In addition, WDC Quantify is also actively involved in global charitable causes. Up to now, WDC Quantify has helped tens of thousands of people in disasters, and in the future, WDC Quantify will help more people in need, helping more people to get out of trouble and confusion and create a better future together.

WDC Quantify's remarkable achievements have been made possible by the unwavering support and contribution of each and every one of its users, and it is the hope of WDC Quantify that through its own efforts, the world will be filled with more love and that more people will join the Love WDC Quantify is committed to making the world a better place.

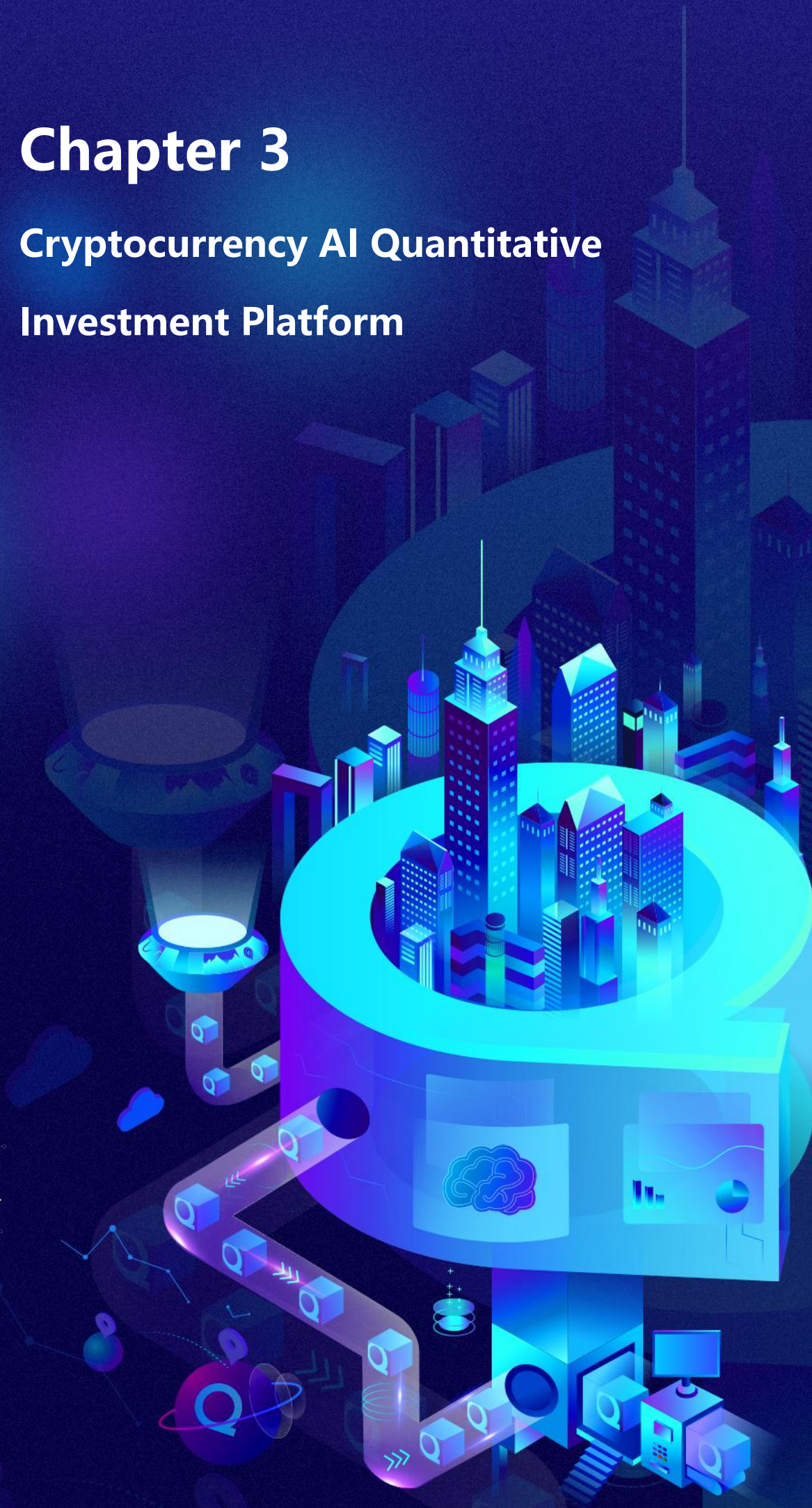
In the future, WDC Quantify will be with each and every one of its users, pioneering innovation and sharing the joy together to create a greater business blueprint.

WDC, let the light of technology - light up life.



Chapter 3

Cryptocurrency AI Quantitative Investment Platform





Chapter 3

Cryptocurrency AI Quantitative Investment Platform

3.1 Platform overview

Since 2017, the change in the global crypto market has ignited investors' enthusiasm for trading, and a large number of quantitative companies have emerged. Many exchanges and quotation software have crossed over to layout quantitative trading, which greatly compensates for the emotional operations, fatigue stares and other human errors brought about by manual trading, and is also an inevitable trend in the development of the trading market in the crypto industry. At the same time, with the departure of the bull market in the cryptocurrency market, all investors need a safe and fast way to profit through the bear market and wait for the bull market to come. wDC Quantify, as a cutting-edge new quantitative strategy platform, focuses on providing AI intelligent quantitative trading strategies for global crypto investment users, through the classical grid, martingale, channel oscillation, AI intelligent strategies and other mature quantitative trading strategies to serve investors, allowing users to trade offline AI automatically 24/7 and achieve rapid asset appreciation through the continuous evolution of AI quantitative strategies.

WDC Quantify has been upgraded after years of preparation and multiple rounds of internal testing iterations to provide users with high frequency trading and quantitative arbitrage strategies for cryptocurrencies and other financial derivatives. At the same time, through in-depth research on AI intelligent big data, K-line patterns, macro information data, derivative official data and on-chain information are quantitatively modelled and filtered through AI neural networks and genetic algorithms to ultimately arrive at the best trading strategies.

Currently, WDC Quantify cryptocurrency AI quantitative investment platform has been launched on Google Play and AppStore. The team members focus on building market-matching and market-tested automated trading strategies, and thus is favored by a wide range of institutional users and professional investors, and is the safe and robust quantitative investment platform of choice for global digital asset traders.

WDC Quantify has the industry's leading global digital financial intelligence service provider. The platform's technical and strategy teams are drawn from renowned investment banks, the London Stock Exchange, elite cryptocurrency practitioners, Silicon Valley IT veteran engineers, Wall Street and other high-end financial services districts, covering a number of top cryptocurrency investment institutions. The platform currently has an average monthly trading volume of hundreds of millions of dollars, with a total trading volume of over \$3 billion, and the total scale of crypto assets under management at this stage is close to \$50 million.



3.2 The value pursuit of the platform

1) Security

As a digital asset quantification strategy platform, the first obligation is security, no matter how high the profits are, if the assets are stolen, it has nothing to do with itself. The key reason for the frequent loss of assets in the crypto industry is the security management strategy and risk control strategy of the platform. The WDC Quantify strategy operates on the chain without exposing user assets and user privacy information, and the platform is maintained 24/7 by top technical talents to protect the rights and interests of user assets.

2) Operability

In terms of support for trading varieties, WDC Quantify supports a variety of mainstream coin contract trading pairs in the crypto market such as BTC, ETH, DOGE, etc., which can meet the diversified trading needs of users. It supports multi-account, multi-currency and multi-strategy simultaneous operation, distributed deployment and unlimited scalability. Visual management of multiple fund accounts on WDC Quantify enables one terminal to link to multiple global markets, eliminating the need to observe multiple websites simultaneously, saving a lot of time wasted switching back and forth and making the right investment decisions one step faster.

3) Strategic

In the overall functional design, WDC Quantify adds AI intelligent elements, the platform will develop exclusive trading strategies according to the user, and provide strategy audit encapsulation and strategy optimization instructions. In terms of strategy selection, WDC Quantify introduces oscillator trading strategy, trend trading strategy and arbitrage strategy and other strategy solutions for digital assets, combining the user's capital amount and risk preference, according to Based on historical big data and AI retrieval, a variety of compound strategies are formulated to meet the needs of different investors and achieve stable asset appreciation.

4) Stability

WDC Quantify replaces human subjective judgment with advanced AI mathematical models, and uses computer technology to select multiple "high probability" events from huge historical data that can bring excess returns to formulate strategies, reducing the impact of investors' emotional fluctuations and avoiding irrational investment decisions in the case of extreme market frenzy or pessimism. The most important feature of WDC Quantify strategy trading is that it can replace the investor's decision making, as in the past, investors often need to spend a lot of time to digest the huge amount of information that

comes to them, whereas quantitative trading can be analysed by the program code, so that they can adjust their investment strategies more quickly. The WDC Quantify platform helps investors to weather the downturn by preventing them from selling their assets due to stress or losing all their money due to impulse, helping them to profit when prices fall or rise. WDC Quantify's AI system allows you to make quick profits. If you want to participate in the market without spending a lot of time on research, MetaGo is the right choice for you!

5) Social

WDC Quantify also supports users to build their own communities and return to DAO, where they can share their trading tips, explain their trading strategies, build their own fan base, and exchange market related information in a timely manner, while the best strategies will also be favoured by the community, which will judge the really good strategies. WDC Quantify is not only a strategy investment platform, but also a Web 3.0 financial infrastructure for users to achieve asset ownership and asset appreciation.

WDC Quantify - the global leader in digital financial investment platforms: WDC Quantify, as a new global cutting-edge quantitative platform, is dedicated to spreading the dividends of digital assets to every ordinary person, so it is relatively simple in terms of threshold and operation, whether you are an expert investor or a novice, you can quickly get started and achieve quick and stable profits through simple. At the same time, the platform is embedded with risk management tools such as stop loss and trailing stop as well as major market alerts, and trading data can be seen at a glance, allowing users to turn on and off strategies directly on their mobile phones anytime, anywhere for fast trading.

WDC Quantify will provide the optimal solution for investing in digital currency assets, adapting to the uncertainty and high risk nature of the crypto market, allowing users to quickly quantify the value of their assets regardless of bulls or bears, and helping investors to traverse the market trends in cryptocurrencies. In the future, WDC Quantify will be the platform of choice to serve cryptocurrency users worldwide with AI intelligent investment technology.



3.3 Multi-strategy combination quantification model

In order to realize "quick step" buying and trading, WDC Quantify portfolio uses a multi-strategy quantitative trading model:

1) Grid Strategy

Oscillating trading tool to reduce the cost of holding positions and gain excess returns. Rely on the grid robot trading strategy regular trading, restrain the general traders' emotional influence.

- Spot grid: no need to keep an eye on the market, 7*24 hours automatic pending orders to buy and sell, high selling and low sucking, oscillating market switch strategy by itself.

- Contract grid: grid trading of contract scenarios, using contract leverage to magnify the principal and obtain multiples of returns.

2) CTA Strategy

Move in response to the trend, follow the trend. Real-time tracking of market trends, through the bull and bear, sustained file profit.

CTA full name is (Commodity Trading Advisors), that is, managed futures strategy, it refers to a professional investor in the futures market to take advantage of the trend of futures price movements to profit an investment strategy. WDC Quantify CTA strategy in digital asset allocation has the ability to reduce the risk of the portfolio, improve the return of the portfolio. WDC Quantify uses advanced time series models and sophisticated statistical and mathematical methods to help users make consistent profits by chasing prices up if they are in a trend state and buying low and selling high if they are in a reversion state.

3) Arbitrage strategies

Due to the information gap, user differences and differences in prices, exchange mechanisms and trading mechanisms between global digital currency exchanges, WDC Quantify provides room for arbitrage strategies to operate. WDC Quantify takes advantage of the existence of spreads in the underlying market to arbitrage risk-free and buy low and sell high.

The profit logic of the WDC Quantify arbitrage strategy.

- Changes in trading volumes between different exchanges affect trading prices

- Inadequate price discovery mechanisms facilitate arbitrage
- Regional differences in demand for digital currencies, resulting in regional price differences
- Fragmented quantitative operations are being replaced by institutions with more professionals and technology, and WDC Quantify has strong capital, technology and greater access to information.

4) Other supporting strategies

WDC Quantify also draws on the classic trading models of traditional exchanges to inject additional profit motives into the intelligent quantification of digital currencies.

- MACD: Real-time tracking of MACD trend signals, gold crosses for long, dead crosses for short, suitable for market with slow trend changes.
- MACD-RSI: Use the combination of MACD and RSI to effectively assess the future market trend and more accurately grasp the timing of trading.
- Double SMA: Real-time tracking of moving average trend signals, gold crosses to go long, dead crosses to go short, suitable for market with slow trend changes.
- Double SMA-RSI: Use the combination of double SMA and RSI to effectively assess the future market trend and more accurately grasp the timing of trading.
- Multi-indicator combination, free to set parameters: contains more than ten commonly used indicators, free to configure multi-indicator entry and position conditions, parameters can be set individually.



3.4 Quantitative trading arbitrage integration

- Strategy Development and Execution: The trading strategy and position allocation robot has a variety of built-in trading strategies, from "Conservative-" to "Aggressive+", to meet different risk types. After setting up a strategy, the robot will intelligently allocate positions and conditions for each entry, strictly execute the trading strategy, and make adjustments in real time according to the current market and cloud data.

- Monitor trading: Simultaneous monitoring of multiple trading varieties can support hundreds of trading currencies to run trading strategies at the same time, independent threads for each variety, automatic monitoring of quote depth, strategy calculation, real-time monitoring of trading conditions to ensure instant trade execution.



- Track Take Profit: Intelligent track take profit, let the profit fly will set the trigger conditions, after the profit ratio reaches the condition, the robot automatically trigger track take profit. Plate quotes have been rising, the profit ratio continues to break through the highest value, when the price falls back, trigger the closing conditions, stop profit out of the market.

- One-click operation: one click to set up a strategy, one click to start We have been working hard to reduce the operational difficulty of financial trading. In the robot, fill in the position, the number of varieties and select the risk type to set up and launch with one click. Easy to start and quick to use for newcomers to digital asset trading.

- Real-time response: tracking to open positions, delayed fill orders for downtrends, need to retrace 1% before opening positions, i.e. if the algorithm's opening point is reached and the market continues to fall, that is, automatic delayed fill orders, to do as low as possible to fill orders, so that the transaction costs are lower. Intelligent anti-waterfall 5 seconds within the market instantaneous waterfall plunge, that is, the pause to fill the single, so that the transaction more secure.

- Autonomous innovation: self-research core algorithm, automatic analysis of positions, automatic allocation of funds. According to the current market, up and down, real-time calculation of the interval point to fill positions, automatically adjust the opening point, for the bear market can gradually downhill strategy, will not leave the order at high levels. That is, the implementation of the Martin arbitrage strategy to achieve stable and worry-free profits in mainstream coins.

3.5 Strategy core advantage

WDC Quantify Intelligent quantitative robot, multi-threaded detection data, including more than ten kinds of commonly used indicators, free configuration of multi-index admission and warehouse conditions, parameters can be set separately, when the market shock can switch strategy. In addition, the full range of technical and resource support also distinguishes WDC Quantify from other projects in the market.

1) Quantitative strategy rules

No need to keep an eye on the market, 7*24 hours automatic pending orders to buy and sell, high selling and low sucking, oscillating market self-switching strategy. Platform server hosting operation, system stability does not drop single.

2) Multi-indicator combination, free to set parameters

Contains more than ten kinds of common indicators, free to configure multiple indicators entry and closing conditions, parameters can be set individually.

(3) Historical backtesting of real data

Official server backtesting of live data, accurate to 1-minute K-chart, multi-threaded background terminal backtesting history, no need to wait for the front-end window to open.

4) Hosting operation

The platform creates a good strategy, hosted by the platform server to run, the system is stable and does not drop orders. Multi-strategy combination mode, so that WDC Quantify can comfortably deal with all kinds of situations, to do more scientific, program trading can be your strategy parameters, a more thorough understanding, the formation of their own trading system; multi-species, the current digital currency categories, coupled with different pricing currency, the formation of more transactions, easier to grasp the opportunity; more freedom, the freedom to achieve some customized features, such as: : Stop loss, large single trade push, etc.; and low latency, some strategies are not timely to operate manually and can only be saved by program trading, such as: high frequency trading and hedging.

5) Decentralisation

Given the drawbacks of centralisation, WDC Quantify's decentralisation is gaining traction and long-term development. The core innovation behind the programmable blockchain is the ability to support the decentralisation of technology by providing a permissionless, trustless and verifiable ecosystem. In this ecosystem, value can be transferred, but more importantly, products and services can be built on top of it.

This means that products and services can be deployed and run, but without the need for trusted, centralised intermediaries to operate (or disrupt) them. This opens up a world of endless possibilities for WDC Quantify. At the same time, to protect the security of users' assets, WDC Quantify will provide a centralised system that allows users to manage their own assets. This is especially true for private keys, which, once obtained by others, hold your assets. Users' digital assets are stored and transactions are recorded on the blockchain network ledger, not on WDC Quantify's servers, and only the person who holds the private key can control it.

6) Blockchain + Smart Contracts

WDC Quantify smart contracts support Java, C/C++, Python and other languages, and all smart contract source code is compiled into bytecode and run in a virtual machine. All smart contract source

code is compiled to run in a virtual machine and uses Sandbox technology to achieve complete isolation of transactions and restrict access to computing resources, maximising performance and security.

WDC Quantify's Smart Contracts Virtual Machine is built on a compiler architecture based on Low Level Virtual Machine, LLVM supports JIT (Just-In-Time Compilation) technology to dynamically compile and execute the generated machine code as required, dramatically increasing the speed of execution of dynamic languages. Maximising hardware performance. Based on the powerful three-stage design of LLVM, WDC Quantify smart contracts will also support more languages such as JavaScript in the future, making it easier for developers with different technical backgrounds to develop smart contracts. A smart contract consists of four parts: registration, triggering, execution and cancellation of the contract.

7) High Performance Trading Platform

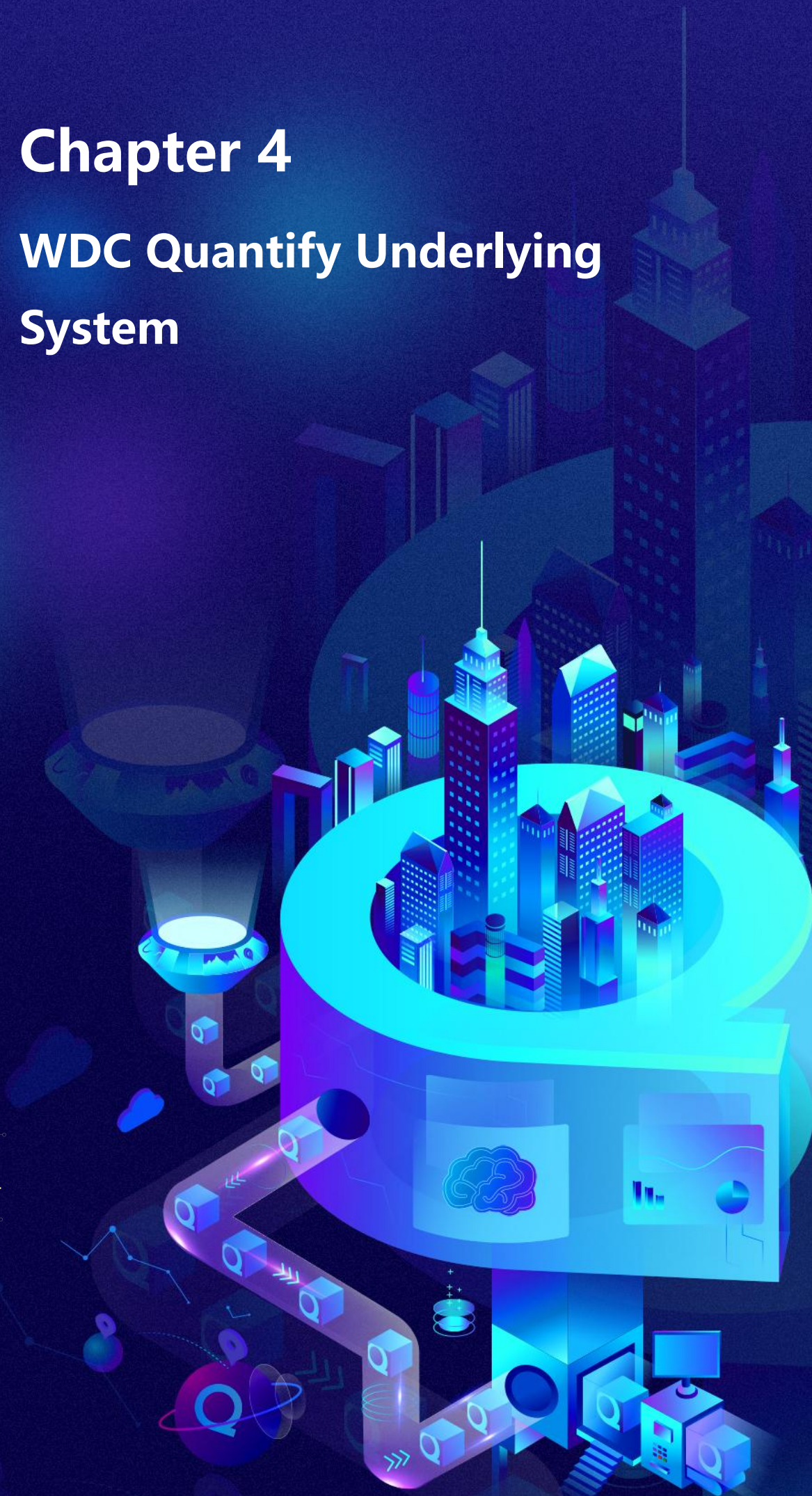
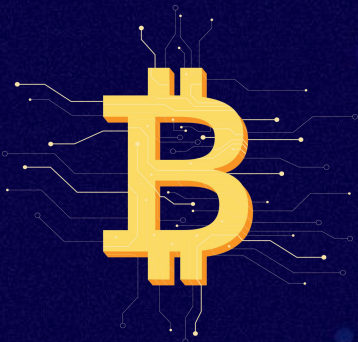
WDC Quantify adopts a read-write separation microservice division and a high-speed transaction aggregation engine, which can carry transaction volume of up to a million levels and run stably and reliably under the concurrency of massive transactions, properly handling each client's commission and ensuring no delay or lag in order processing. The platform adopts a multi-layer, multi-cluster system architecture, providing all-round security protection and greater efficiency. Using the transaction aggregation engine, it can carry up to 50,000 transactions per second.





Chapter 4

WDC Quantify Underlying System



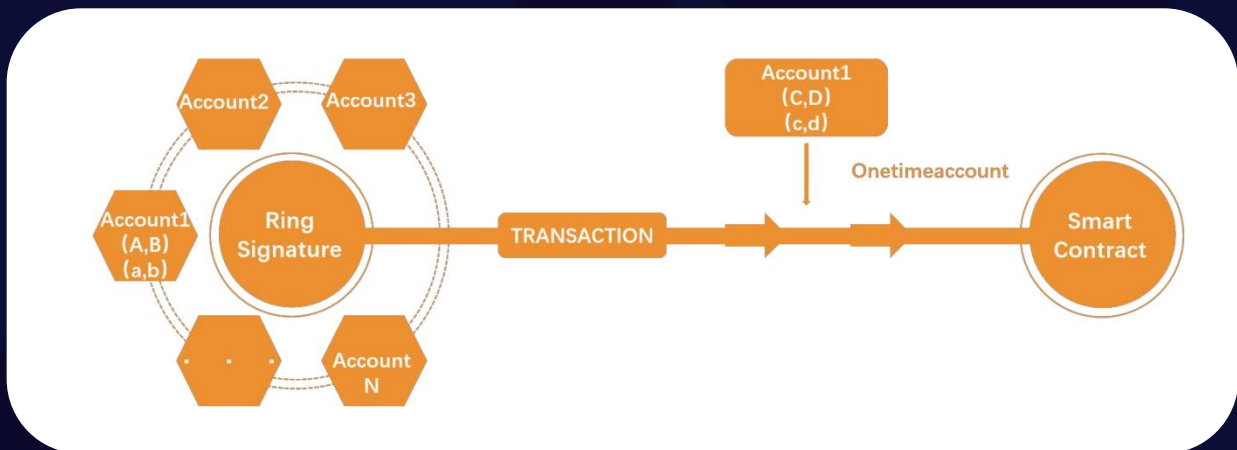


Chapter 4

WDC Quantify Underlying System

4.1 Multi-sign key management

Multi-sign key management is a key security management technology. When multiple stakeholders jointly manage an account, they jointly manage the key, and each interest participant will master a key share. As long as a certain number of key shares are collected, the key can be recovered. Using this technology, the account key can be locked across chains, and jointly maintained and managed by the locked account management nodes on multiple chains, so as to ensure the security and credibility of the account and reduce the risk of key loss.



4.2 Distributed cross-chain storage of digital assets

Security is the foundation of WDC Quantify, as the digital assets trading platform store more and more digital assets, it is easy to become the target of criminals, platform need to spend a lot of

manpower, material resources, financial resources to prevent their attack WDC Quantify will build a distributed financial infrastructure, connect all kinds of block chain network together, help them complete mutual assets transfer, accounting and storage. Through different digital currencies and digital assets on the trading platform, transactions can be transferred out and completed by blockchain; financial products and contracts based on digital currencies and digital assets can be created and executed; and related transactions can be effective privacy protection. Through the distributed cross-chain asset storage and multi-signing key management ability, WDC Quantify will break the capital pool mode of the "classical" trading platform, and have the centralized high-speed matching ability, and the open, transparent and safe fund custody ability of the distributed trading platform.



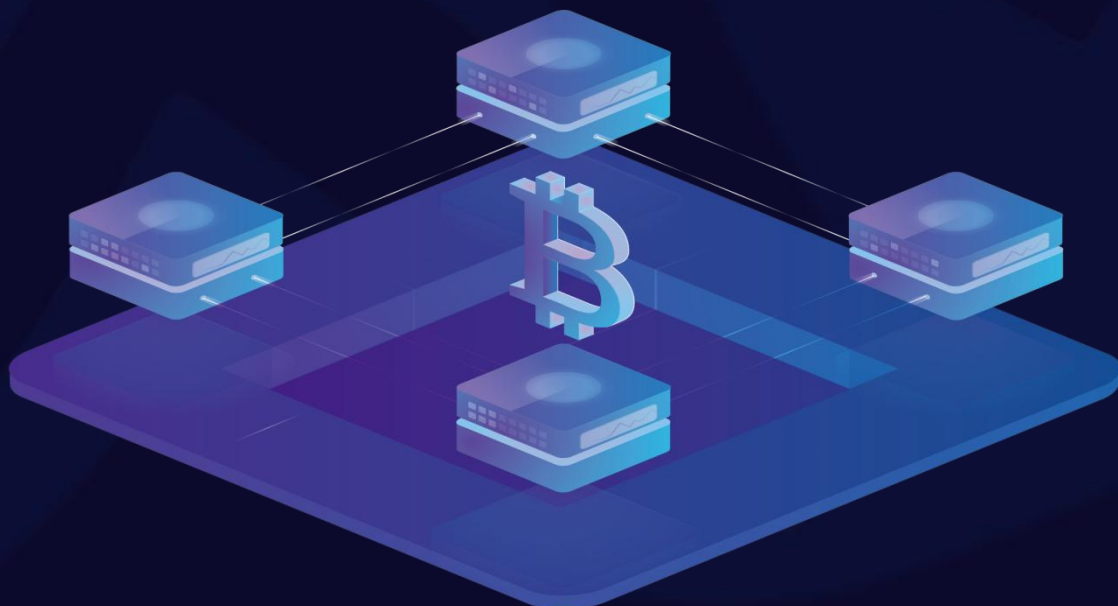
4.3 Composite key

The term "public key" in the above description actually refers to a composite key. A composite key is a tree whose leaves are a conventional cryptographic public key with an algorithm identifier. The node in the tree specifies both the weight of each of its children and the weighted threshold that it must reach.

The validity of a collection of signatures can be confirmed by passing the tree from the bottom up, summing the weights of all the keys with valid signatures, and comparing them with the threshold. With tenure weights and thresholds, diverse cases can be encoded, including Boolean expressions using AND and OR.

The composite keys are available in multiple scenarios. For example, an asset can be under the control of a 2-2 composite key: one key belongs to one user and the other key belongs to an independent risk analysis system. The risk analysis system rejects signing on the transactions when they appear suspicious, such as transferring too much value in a very short time window. Another example involves encoding a cooperative structure into a key, allowing a CFO to sign a large transaction alone, but its subordinates need to sign it together.

Each participant in a distributed notary office is represented by a leaf of the tree, and a specific threshold setting can make the entire group signature still valid when some of the participants are offline or refuse to sign. Although threshold signature schemes are available in the literature to accurately produce composite keys and signatures, we chose an explicit form with low spatial efficiency in order to allow the use of different algorithms to mix the keys. As a result, all participants in the group are not required to upgrade at the same time while phasing out old algorithms and adopting new algorithms.

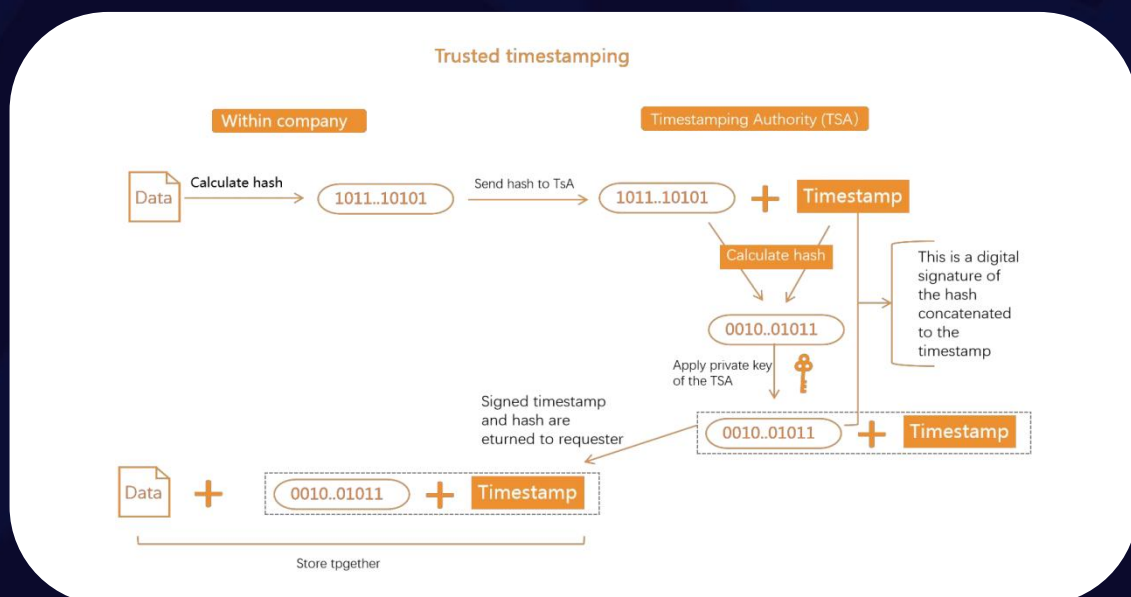


4.4 Time stamp

The transaction timestamp specifies a time window in which the transaction occurs. The reason why timestamps are represented in window form is that there are no exact time points present in distributed systems, and there are only a large number of clocks without syntenry. This is not only influenced by the laws of physics, but also due to the nature of shared transactions — especially if the signature requires multiple authorization, the process of constructing joint transactions may last several hours or days.

It is worth noting that the purpose of the transaction timestamp is to meet the logical compulsion of the smart contract code, and to convey the location of the transaction on the timeline to the contract code. Although the same timestamp may also be used for other purposes, such as regulatory reports or event sorting on the user interface, however did not require the timestamp, and although the time with other participants observed not accurately match, using the local observed timestamps is sometimes a better choice. Alternatively, if a precise point on the timeline is required and the point must be agreed by multiple participants, the middle point of the time window can be agreed. Although this does not precisely correspond to an event (such as keystroke or verbal agreement).

The timestamp window can be open to convey that a transaction occurs earlier or later than a specific time, but it does not matter how long it is either early or later. The timestamp is checked by the notary service. Since the participants of the notary service themselves do not have a precise synchronous clock, it is also unpredictable whether a transaction submitted at the boundary of a given time window is considered valid at the moment it is submitted. From the other observers 'point of view, however, the notary office's signature is decisive. If a transaction is signed by a notary office, the transaction is assumed to have occurred within a given time.



In order to use a relatively narrow time window when transactions are under the full control of a single participant, the notary office is expected to synchronize with the atomic clock of the US Naval Observatory. The precise feed of this atomic clock can be obtained from the GPS satellite. Note that the Java timeline used by WDC Quantify is expressed as UTC time, and the leap second is included in the last 1000 seconds of the day, so each day accurately contains 86400 seconds. Special attention needs to be paid to ensure that the leap second counter changes in GPS are handled properly so that it can be synchronized with the Java time.

When setting the time window of the transaction, we must pay attention to the delay of the network transmission between the users and the notary service and the internal message transmission of the notary service.

4.5 Intelligent quantification technology implementation

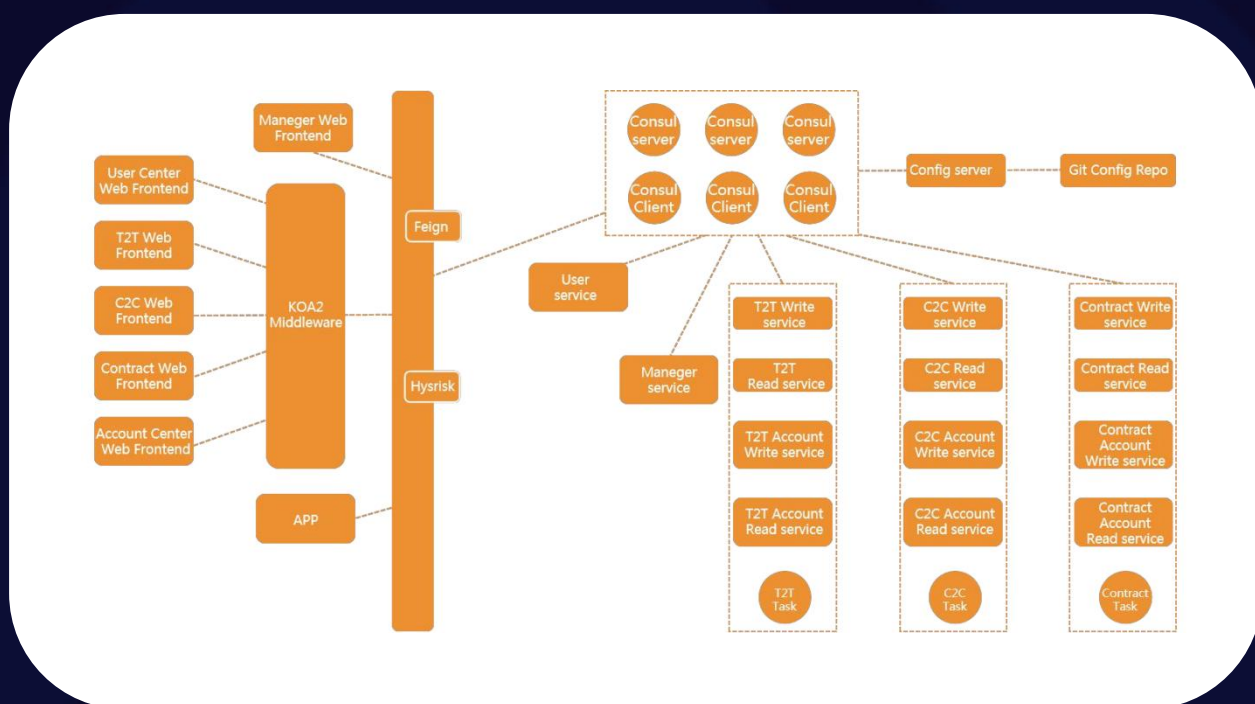
Create quantitative grid objects: determine the density (width) of the grid up and down as well as determine the price and quantity of each grid to sell and buy based on historical transaction data.

- Undo All Orders: Undoes the current outstanding orders.
- Pending buy orders: forms a grid for buying.
- Pending Sell orders: forms a grid for selling.
- Determine the status of the order: monitor whether the price of the digital asset touches the grid, and if it does, recreate the grid object and so on.



4.6 Trading engine

In order to realize the top information flow processing capacity and ensure accurate information arrival and error-free processing results, WDC Quantify adopts the self-developed trading engine system, which will achieve the maximum trading processing speed of 5 million TPS, and the trading matching efficiency is 35% -40% higher than the industry, providing the basic technical support for the stable and efficient operation of the platform. Meanwhile, WDC Quantify platform will integrate and optimize the configuration of cloud computing at each node, so that the system can reach the processing speed of the international top stock futures trading platform.



4.7 System risk control technology

1) Database read-write separation mechanism

At the initial stage, WDC Quantify system risk control generally ensures the synchronisation and separation of read and write of the database of the trading system and the risk control system data by establishing mechanisms such as database master-slave replication, read-write separation and sharding. The system risk control generally only has read access to the required client/account data and transaction

data, thus ensuring that the account data is safe and secure.

2) Caching / memory database mechanism

An efficient caching system is an effective measure to improve performance, and generally this mechanism will store frequently used data in a caching system such as Redis. For example, risk control rules, risk control case base, intermediate result sets, black and white lists, pre-processing results, transaction parameters, billing templates, clearing and settlement rules, profit sharing rules and other data. For some high frequency transactions, a memory database is used for globally distributed node storage based on performance considerations.

3) RPC / SOA architecture

Reduce the coupling of trading system and system risk control. At the beginning, when the system services are small, message middleware such as RabbitMQ / ActiveMQ or RPC is used directly to achieve the invocation of services between systems. When the number of system services increases and service governance issues arise, SOA middleware such as Dubbo is used to implement system service invocations.

4) Composite Event Processing (CEP)

Real-time/quasi-real-time transaction risk control, as opposed to a purely rule-based processing model, uses the Composite Event Processing (CEP) model, which has better performance and scalability.



4.8 Matching deals

In the traditional private data matching transaction scenario, the data of the two parties need to be disclosed to each other or matched by a trusted third party. In the current volatile and hostile environment, this is extremely risky. The third party has too much voice in the transaction, and there is the possibility of leaking, tampering or concealing the data of both parties. Thus, protocols that can support joint computing and protect the privacy of participants are becoming increasingly important. WDC Quantify Dedicated to introducing secure multi-party computing (Secure Multiparty Computation, SMC) to solve this problem. Secure multi-party computing is a collaborative computing problem to solve the privacy protection of a group of mutual distrust parties. SMC needs to ensure the independence of the input and the correctness of the calculation, and the input value is not disclosed to the participants.

Usually, a secure multi-party computation problem on a distribution network based on any probability function of any input, each input party has an input on the distribution network, and to ensure the independence of the input, the correctness of the calculation, and in addition to the respective input, does not disclose any other information that can be used to derive other input and output information. Taking exchange pairing as an example, the user's conditions and features are mapped to points in a t-dimensional space.

Let the desired target be a , and the data of the data provider be $B = b_1, b_2, \dots, b_n$, satisfied

$$a, b_i \in P$$

The dealtransaction algorithm can be summarized as the nearest neighbor algorithm NN on the t-dimensional space, that is, the distance d between a and b is minimum.

$$b^* = \text{NN}(a, B) = \min_{i=1, \dots, n} d(a, b_i)$$

In order to protect the privacy of B data, the computing nodes in the blockchain need to be isolated from the data A and b , and can only obtain the encrypted data. Therefore, WDC Quantify introduces a fully homomorphic encryption algorithm (Full Homomorphic Encryption) to calculate the data matching process. Fully homomorphic encryption can carry out arbitrary complex operations on encrypted data without decryption key to realize secure plaintext calculation.

Let the encryption algorithm be $E(x) = cX$, and the decryption algorithm be $D(x) = pX$, including:

$$b^* = \text{NN}(a, B) = D\left(\text{NN}(c_a, c_B)\right)$$

Restricted by the performance of the homomorphic encryption algorithm, WDC Quantify selects the square of the Euclidean distance to calculate the matching degree. Then the optimal matching calculation formula is:

$$b^* = NN(a, B) = D\left(\min_{i=1, \dots, n} d(c_a, c_{b_i})\right) = D\left(\min_{i=1, \dots, n} \sum_{j=1}^t (c_{a_j} - c_{b_{ij}})^2\right)$$

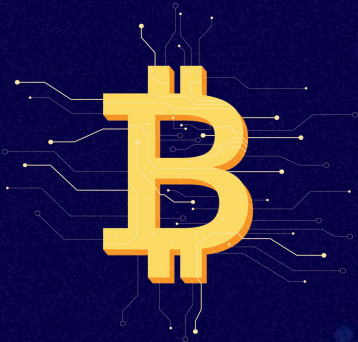
After the b^* is calculated by the above formula, the query party obtains the best matching target. In the whole matching process, the agent computing node and the query party cannot access other user data before encryption, and the privacy of the user data is guaranteed.





Chapter 5

Supporting service system/function





Chapter 5

Supporting service system/function

5.1 Digital asset trading network

In order to meet the investment needs of different users around the world, WDC Quantify developed a leading digital assets trading network, system adopts advanced distributed cluster architecture and micro service development way, set the bidding matching system, security and risk control system, C2C gold flow system, multiple chain wallet system, marketing system and block chain application, work order and customer service system, etc., will continue to launch OTC OTC, contracts, etc. Support securities level advanced algorithm, support a variety of professional trading orders, can handle up to 5 million transactions / second concurrent, the measured matching speed at the beginning of the line will reach 130,000 transactions / second. At the same time, through strict standards, multiple risk control system services, so as to achieve the efficiency and security beyond the financial level.

WDC Quantify Dozens of self-developed security and risk control measures. At the same time, cooperating with the international top technical team, we have more than 100 security and risk control measures. Through strict standards and multiple risk control system services, we provide professional, safe and stable digital asset transactions for the world. In the future, the exchange will continue to conduct security upgrades and introduce more security and risk control measures.

WDC Quantify The transaction network system adopts distributed architecture, and adopts three-layer protection system. The whole process of Web pre-WAF, database firewall and storage data encryption ensures the security of the system, 7x24h intelligent monitoring and situational awareness, real-time vulnerability scanning, abnormal asset alarm and intelligent prohibition, and always provides emergency response and risk assessment. In addition, WDC Quantify will cooperate with third parties to provide DDoS defense, flow cleaning, CC prevention, penetration defense and other security protection. At the operational level, Dapp has a number of financial product experts and technical security experts, and is equipped with an international level risk control team to provide due diligence, project rating, smart contract audit, risk assessment and other services for digital assets, providing multi-dimensional security and risk control guarantee.

5.2 Payment service system

WDC Quantify Create an open and comprehensive blockchain payment ecosystem. Compared with the high transfer fee and extremely slow transfer time of ordinary digital wallet, the payment system can realize zero commission and second digital asset transfer between users through self-developed payment technology.

WDC Quantify Provide different services and products to users, and provide commercial payment platforms to commercial institutions, which can realize one-click access to WDC Quantify and cross-border payment solutions. For individual users, WDC Quantify provides mobile DAPP wallet, encrypted communication module based on RSA algorithm, over-the-counter guaranteed transaction, high-speed transaction and other functions customized for cryptocurrency users. WDC Quantify The payment system uses a variety of mature technologies such as timestamp transaction and 2-of-2 multiple signature technology, which can realize instant payment, instant payment. The digital currency can be quickly paid to the account with zero commission, bringing users a new payment experience, and is different from the off-chain wallet realized by centralized database technology. WDC Quantify The payment system is decentralized, and the user's assets are completely in the hands of the user. It can query channels on the blockchain without being used by the platform, which is absolutely safe. At the same time, MHT technology (Matching hedge Technology matching hedging technology) can satisfy different users to freely convert and pay between different currencies. Even with good matching and hedging and the establishment of payment channels, it can realize cross-chain trading with second speed and zero handling fee. The cross-chain implemented in this cross-chain protocol is an open source open protocol, as long as users abide by this protocol without even going through the WDC Quantify platform, so as to ensure that the cross-chain can be open, fair and enough decentralized.

WDC Quantify The payment system uses a common address, which can receive and send 95% of cryptocurrencies. The emergence of universal addresses can help users avoid the trouble of managing multiple currency addresses, just as having an paypal account can send and receive more than 20 legal currencies around the world. The general address is defined by the user, which can be the currency address of a mainstream digital asset, or an ID number, mailbox or mobile phone number. Using the common address, you can easily receive, send, maintain and manage your own blockchain assets.



5.3 The Blockchain Asset Browser

WDC Quantify Provide a blockchain browser for ordinary users to check the number of assets on any access platform. The blockchain browser supports links to different blockchain nodes to query the ledger situation, and can observe the generation of each block and each transaction in real time. When entering the corresponding account, you can query the balance of various assets of the account and all the transaction records.



5.4 Operations management and performance expansion

1) Operations Management

Development language used: php

- Network isolation through VPC and VPN access mechanism to enhance security.
- Use of https protocol, with high security and WAF to enhance anti-attack capability.
- Introduction of financial-grade wind control mechanism at the operational level to enhance user security across the board.

2) Performance expansion

WDC Quantify establishes a redundant expansion system based on load balancing technology. Load balancing is the process of distributing incoming requests to different servers according to a certain algorithm. Common load balancing algorithms include random method, polling, random with weight, ratio, priority, minimum number of connections, fastest response time, observation method, prediction method, dynamic performance allocation and other methods. Load needs to be balanced not only between user requests and servers, but also at various other stages in order to gain better scalability and redundancy. WDC Quantify will implement load balancing at three levels, as shown in the following diagram.

- User requests to the front-end server.
- Front-end servers to the internal back-end platform layer.
- The back-end platform tier to the database.

In terms of how load balancing is implemented, WDC Quantify has chosen to use a form of hardware load balancing to ensure the highest quality of performance scaling. This way the distribution of requests is done directly at the hardware level, allowing for high performance.



5.5 WDC Quantify Financial management system

WDC Quantify Will fully apply the technical thinking of blockchain, Using blockchain technology as a tool to break the shackles, To solve the problem of a single model in the digital currency financial management services, Let every subject in the Internet ecological group can enjoy the progress brought about by science and technology, Each subject can invest quickly and conveniently in digital currency on the WDC Quantify, Complete every digital currency transaction efficiently and safely, You can also enjoy the global digital currency financial management services provided by WDC Quantify, User-all activities such as information transmission, asset transactions and income distribution, Will be protected by blockchain-based, tamper-proof technology.

For example, WDC Quantify will provide various forms of financial investment products based on digital currency. In addition to the existing mainstream digital assets, the platform will also provide users with index, fund, insurance products and financing services to meet the needs of users with different risk and return preferences. For example, WDC Quantify financial investment supports BTC, ETH, USDT and other mainstream currencies. WDC Quantify financial account is a value-added product. The platform will distribute 70% of the interest income of leveraged currency to users according to the proportion of users' wealth management accounts. After transferring the idle assets into the financial account, users can enjoy the income brought by the financial account every day, and calculate the interest based on the daily compound interest. There is no minimum deposit limit.

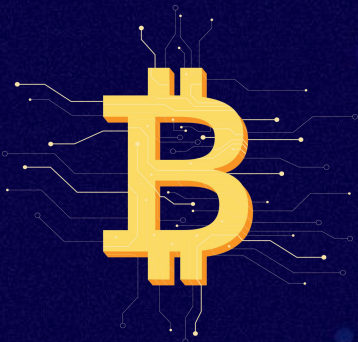
WDC Quantify Financial account products will create continuous value for users holding currencies. Users participating in financial management can lend cryptocurrency assets, deposit and withdraw the principal according to their actual conditions, and redeem interest. Without cryptocurrency transactions, they can also increase digital currency assets. WDC Quantify On the premise of ensuring the security of digital currency, we hope to provide diversified choices for diversified users. Aggressive users can entrust their digital assets to earn short-term gains. Holding users can entrust their digital currency assets to the platform and can continuously increase their assets without trading.

In the future, according to the real-time market demand, WDC Quantify will open up to support more cryptocurrency currencies and launch diversified digital currency investment products. In addition to going online to support more digital currency assets, it will also provide products with different lock-up periods and higher asset returns in the future, so as to provide reasonable financial investment returns for cryptocurrency investors.



Chapter 6

Global team and landing development





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6.1 Global team

WDC Quantify It brings together the best experts from various fields of the industry, including computer, information security, communication, mathematics, finance, cross-chain, web development and high-frequency algorithm trading. It has rich experience in the bottom layer of blockchain, distributed database, cryptographic algorithm, application layer construction, cross-chain technology and other aspects. The team not only has strong technical capabilities, but also has excellent arbitrage capabilities, and continues to make major research breakthroughs in many fields such as distributed ledger and cryptography.

1) Technical member

Mat Lebiz - PhD in Computer Science from MIT, has worked for Microsoft, Amazon, Google, IBM and other internationally renowned companies, has published hundreds of academic reports on computer, internet and blockchain, and is also a professor of computer science at the University of Pennsylvania. He has served as an executive at IBM, Amazon, Google and other companies, and has unique insights into blockchain technology and extensive experience in company management, data analysis and business operations.

David Aister is a professor at Stanford University, a member of the North American Blockchain Consortium, and one of the first experts to work on the underlying blockchain technology. He has more than 15 years of experience in risk control, and specializes in adopting scientific, rigorous and thorough risk control audit standards and methods to comprehensively verify the real information of customers at trading stations, analyze transaction risks, audit customer transaction registration and assess the ability to control assets, so as to prevent the occurrence of undesirable transactions to the greatest extent.

Dinesh Singh - A veteran angel investor in the blockchain industry, he is the founder of BTC123, the world's largest blockchain portal. his extensive experience has enabled the technical strategy and design

architecture of the Rucnira platform to ensure the best performance in terms of application design, security and operation.

Richard Dobrow - Graduated from Virginia Tech in 2002 with a PhD in Computer Science. Worked at IBM Computer Research Center. Exposed to digital cryptography through his thesis "New Directions in Cryptography", verifying the feasibility of distributed ledgers through asymmetric encryption and elliptic curve algorithms. Has been involved in the design of over 10 digital currencies and has discovered several security vulnerabilities, and is a trusted and well-known member of the digital currency community.

2) Consultant members

Bernice Micallef - a blockchain and 5G technology expert, has been working on large-scale system engineering development in the Cryptocurrency team for a long time. He has also been involved in the development of several cryptocurrency projects. Including proof-of-concept platform, blockchain explorer, online wallet and one of the largest token mining pools.

Alfred - proficient in the principles and implementation of mainstream blockchain technologies such as Bitcoin, Ether, HyperLedger, etc. He has a deep understanding and rich practice in blockchain consensus mechanism, smart contracts, cross-chain technology, sidechain technology, privacy protection, etc.

He is responsible for the cross-platform porting of mining algorithms and software development management of mining machines for Bitcoin, ETH and other virtual currencies. He has extensive experience in the technical architecture of virtual digital currency wallets and virtual digital exchanges.



6.2 Global development support

Supported by strong technology, resources, governance and community, WDC Quantify is driving the era of high-value returns from quantitative trading of global digital currencies. Thanks to the advantages of continuous development and innovative technology, extensive commercial applications and refined governance, WDC Quantify has landing advantages in the following areas.

- Technology: WDC Quantify has very mature and strong technical support, and has accumulated rich industry and technical experience in a number of fields such as blockchain, finance, artificial intelligence, derivatives, quantitative strategies, and brick and mortar arbitrage, and has made industry-leading breakthroughs in the development and application of underlying blockchain technology. The WDC Quantify team is perfectly The WDC Quantify team brings together senior people with multiple industry sectors, years of practical operational experience, and deep insights into industry development.

- Industry resources: WDC Quantify will sign strategic partnership agreements with top leaders in the target industry, which will provide strong support for WDC Quantify's entry into the target industry, thus truly driving the practical implementation of WDC Quantify applications.

- Business Governance: Unlike other projects, WDC Quantify has a clear and well-defined strategic plan for the target industry and a self-governing community model that continues to empower a free, fair and high-value ecosystem to flourish. The peer-to-peer transfer of value is used to penetrate and rapidly gain market share in targeted industries.

- Fund Management: The management of WDC Quantify's funds will be led by the Company and will strictly adhere to the principles of fairness, equity and openness, with the development of WDC Quantify as the primary objective, and an investor protection fund will be established to ensure the safety and sustainability of the funds. The use of all WDC Quantify funds will be disclosed to all investors on a regular basis to ensure that the funds are used openly.

- Scope for growth: WDC Quantify targets the trillion dollar digital currency market. The development team has ensured sustainability by drawing up a sound governance structure to effectively manage matters such as general deliberations, code management, financial management, compensation management and privileged scope of operations.

In summary, supported by its core competencies, WDC Quantify has a clear commercialisation logic, a series of quantitative strategies applied more advantageously in combination, and a strong targeted and logical gene for each technical aspect and organisation, and on this basis numerous modular and transformative technical solutions or mechanisms are proposed.

6.3 Trading support and market control

WDC Quantify Through deep cooperation with the world's top exchanges (coinbase, Binance, Huobi, Youyi, etc.), to provide sufficient trading depth and up to 500 + trading varieties. WDC Quantify At the same time, provide low fees to ensure that all users can get the best rate with the minimum funds.

Through the "query assets" and "entrusted transaction" functions authorized by the API interface, it can help traders to operate transactions in the global stations such as Huobi and Binance. Provide the fastest market data for our users.

1) Trading depth

Bringing small retail investors closer to the platform through WDC Quantify.

- 500+ tokens: Support mainstream token trading such as ethereum, bitcoin, litecoin, ethereum classic, etc. There are even various small coins included in grayscale.

- Safety of funds: through deep cooperation with exchanges such as coinbase, coinan, firecoin, euay, etc., to protect the safety of user funds. At the same time, it promises that any fees are transparent and traceable, so that investors know where their money is going.

- Product advantage: WDC Quantify has users all over the world, with traffic pools from coinbase, coinan, firecoin, euromoney, etc., providing enough deep buy and sell orders. Narrow trader spreads and slippage to make orders easier to fill.

2) News Strategy

Adhering to the concept of real-time, real and professional, WDC Quantify serves global blockchain traders through a real-time news strategy for the cryptocurrency community.

- Professional financial media in the cryptocurrency circle

- Focused on global blockchain industry news

- A combination of news, newsletters, in-depth research and classes

- Providing 7x24 cryptocurrency news

3) Market Control

WDC Quantify builds the best trading model through application scenario analysis, market capitalization change tracking, focus on index changes, current market trends, etc.

- Signal feeds: filtering the best entry points for the best currencies
- Trading strategies: Signal feeds combined with built-in strategies (Martin Multiplier)
- Position opening: placing the first order according to the trading strategy
- Close a position: Real-time monitoring of the best points across the network to complete the trade exit

6.4 Compliance exploration

With the gradual maturity of the crypto market, countries that have relevant bills will further improve their regulatory system, and some countries that have not yet enacted bills may step up their deployment. It is expected that more countries will legislate on cryptocurrencies and assets in the future to promote the compliance construction of the market. According to statistics, the current global regulation of blockchain has made good progress. Since 2020, countries around the world have introduced more than 200 policies in the blockchain-related field, and industrial development, CBDC and financial regulation have become the main areas of concern, accounting for 33%, 20% and 17%.

The WDC Quantify is open to its efforts to comply and embrace regulation. WDC Quantify Under the leadership of the Foundation, it will work with regulators and law enforcement agencies around the world. Strive to establish a robust compliance program, including anti-money laundering principles and tools used by financial institutions to detect and handle suspicious activities, and have a good track record in assisting law enforcement agencies around the world.

WDC Quantify Anti-money laundering will be more stringent than the anti-money laundering done by traditional banks. It will implement new control and supervision technologies with institutions such as blockchain security intelligence company CipherTrace, through a number of external anti-money laundering (AML) audits. At the same time, it has actively cooperated with UNODC and Interpol. In addition, WDC Quantify will set up a dedicated business security team to study the latest hacking methods and strengthen business processes to protect users from financial losses. At the same time, the wallet security architecture for users' funds adopts the separation of cold and hot design, and the absolute ciphertext strategy of private key is strictly adopted in the generation, storage and use of private

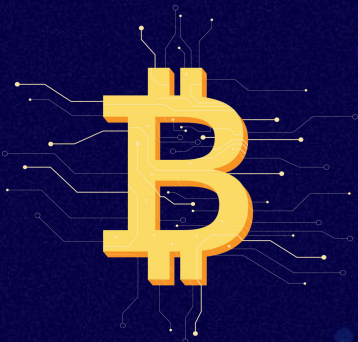
keys. Meanwhile, multi-layer security risk control mechanism is adopted in these links. The KYT strategy can monitor and detect anomalies in each transaction.

In the future, WDC Quantify will actively embrace regulation, work closely with global regulators and law enforcement agencies, and promote the pace of international development and achieve rapid expansion based on compliance operations.



7

Chapter 7 Risk Reminder and Disclaimer





Chapter 7

Risk Reminder and Disclaimer

7.1 Risk warning

1) Risk of loss of digital passes due to lost credentials

The purchaser's digital pass is likely to be associated with an account before it is allocated to the purchaser, and the only way to access the account is through the relevant login credentials chosen by the purchaser, the loss of which will result in the loss of the digital pass. The best way to securely store login credentials is for the purchaser to separate the credentials into one or more secure locations and preferably not store or expose them to the workplace.

2) Risks associated with the core protocol

Digital passes and applications are developed similarly to the Ethernet protocol, so any failure of the core protocol, unanticipated functional problems or attacks could cause the digital pass or application to stop working or lose functionality in unpredictable ways. In addition, the value of the account in the protocol may be reduced in the same way as digital passes or in other ways.

3) Risks associated with the purchaser's credentials

To minimise the risk of any third party gaining access to the purchaser's login credentials or private key and potentially taking direct control of the purchaser's digital pass, the purchaser must protect their electronic device to prevent unauthenticated access requests from passing through and accessing the device's content.

4) Associated policy risks

Blockchain technology has become the main subject of regulation in major countries around the world, and applications or digital passes may be affected by regulatory bodies if they intervene or exert influence, for example, by decrees restricting the use, sale and potential restriction of electronic digital

passes such as digital passes, preventing or even directly terminating the development of applications.

5) Risk of lack of interest in the application

There is a possibility that project applications are not used by a large number of individuals or organisations, meaning that there is not enough public interest in developing and growing these related distributed applications, and such a lack of interest could have a negative impact on digital passwords and applications.

6) Risk of related applications or products not meeting standards

There is a risk that any expectations or imaginations of the project itself or of the purchaser of the functionality or form of the application or digital pass (including the behaviour of the participants) may not be met, and any mis-analysis, change in design, etc. may lead to this happening.

7) Risk of vulnerability or rapid development in the cryptographic discipline

Rapid advances in cryptography or technological developments such as quantum computers may bring the risk of cracking to encrypted digital passes and platforms, which could lead to the loss of digital passes.

8) Risk of lack of maintenance or use

Digital passes should not be treated as an investment and while they may have some value after a certain period of time, this value may be very small if there is a lack of maintenance or use. If this happens, then there may be no followers or few followers without the project, which is obviously very detrimental to digital passes.

9) Risk of uninsured losses

Unlike bank accounts or accounts at other financial institutions, there are usually no insurance barriers stored on the account or network, and there will be no publicly available individual organisation to cover your losses in any case.

10) Unforeseen other risks

Cryptographic digital passwords are a new and untested technology and in addition to the risks mentioned in this white paper, there are a number of risks that have not been mentioned or not yet anticipated by the team, in addition to other risks that may arise suddenly or in a combination of the risks already mentioned.

11) Other notes

Participation in project-related cooperation is not recommended without a full understanding of the development plan of the operating project and a clear understanding of the risks associated with the blockchain industry.

7.2 Disclaimer

This document is for informational purposes only and its contents are for informational purposes only and do not constitute any recommendation, solicitation or offer to buy or sell shares or securities in WDC Quantify or its related companies. Such offers must be made by way of a confidential memorandum and must comply with relevant securities and other laws. Participation in the program means that the participant is of age, has full civil capacity and that the contract with WDC Quantify is genuine and valid. All participants enter into a contract voluntarily and have a clear and necessary understanding of WDC Quantify prior to entering into a contract.

The WDC Quantify team will continually make reasonable attempts to ensure that the information in this white paper is true and accurate. Updates to the platform may be made during the development process, including but not limited to platform mechanisms, eco-application mechanisms, and reward profiles. Parts of the document may be adjusted accordingly in the new version of the white paper as the project progresses, and the team will make the updates available to the public by posting announcements on the website or in the new version of the white paper. WDC Quantify expressly disclaims any responsibility for participants who.

(a) Reliance on the contents of this document.

(b) inaccuracies in the information in this document, and for any actions resulting from this document.

The team will make every effort to achieve the objectives mentioned in this document, however, due to the existence of force majeure, the team cannot fully commit to its completion.

WDC Quantify complies with any regulatory requirements and self-regulatory statements that are conducive to the health of the industry. By participating, the participant fully accepts and complies with such checks. It is also important that all information disclosed by participants to complete such checks is complete and accurate. Possible risks are clearly communicated to participants and by participating in the program, participants acknowledge that they understand and accept the terms and conditions set out in the rules and accept the potential risks of the platform and the consequences.