



CRYPTOOL

THE WHITE PAPER V1.2

CRYPTOOL

About Cryptool

Cryptool was established in 2017 and is a pioneer in the blockchain field. Cryptool has created an ecosystem for news publishers, data insights, and user acquirers. The core technology application of Cryptool is intelligent spectral clustering news push, which pushes messages for users through unsupervised learning; Cryptool are updated in real time through digital currency information searched throughout the network; through data cleaning and structuring, Cryptool generates a series of digital currency indices. We calculate the similarity and degree matrix by finding high connectivity or similarity - a matrix describes the degree of similarity between the data (geometry, nearest neighbours, etc.) and a diagonal matrix that measures the degree of power for each data.

These two matrices so-called Laplacian matrix from which eigenvalues and eigenvectors are extracted. Think of these values and vectors that describe the dimensions of the matrix. Using blockchain technology, the digital currency in each time zone's network information, real-time market and other hundreds of dimensions of data mining, computing, reconstruction to form a Cryptool digital currency growth trajectory index, to help users analyze the long-term digital currency value.



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Abstract

In 1977, PC modem came out. In 1990, which is 12 years later, the global Internet usage rate still hovered around 0.5%. In the following two decades, the Internet adoption rate was only over 40% worldwide. With the key infrastructure already in place, why do global consumers spend so long to get online? One possible answer lies in the spread of innovation theory and the idea of "tipping point" for potentially successful technologies.

Innovation Diffusion Theory, first proposed in the 1960s, by sociologist and communication theorist E. M. Rogers. Innovation Diffusion Theory explains the spread of new products or ideas to the crowd and becomes integrated into the daily lives of ordinary people. The theory recognizes that in a group, ideas are not adopted at the same time. The theory identifies people who have the same behaviour when adopting new technology and divides them into five core groups: innovators, early adopters, early majority, late majority, and laggards. Innovators and early adopters account for the small proportion of people, 2.5% and 13.5% respectively, who are the most likely to develop, adopt and disseminate new technologies or products. The last three parts, the early majority, the late majority, and the laggards represent the majority of the population and are most likely to be used after a technology is proven and after they notice many people adopt it.

Authors Jeffrey Moore and Malcolm Gladwell later developed on the basis of the creation of E.M. Moore, proposing their own set of theories, explaining how diffusion has made early adopters jump into a pioneer.

Moore's Law identifies several key factors driving the product to cross the chasm:

1. Proper distribution - Consumers can acquire or purchase technology through recognized channels;
2. Value Proposition - Strong message transmission has convinced most of the early sceptics that technology is not only a flash;

3. The right price and accessibility – costs and barriers to entry are reduced from the initial value-based level, making it easier for the average consumer to get;
4. A complete product - a technology that is ready for the consumer, with no major errors and scalability issues.

Going back to the example of the Internet, it is now possible to answer the question: Why is the adoption of time, despite the availability of infrastructure: the key factors driving large-scale adoption of technology have not yet been resolved. Throughout the 1990s and early 2000s, local Internet providers began to appear in distribution aid, and the public began to truly understand the value of the Internet and Internet connections through companies such as Amazon and Google, where cost barriers, such as PC and Internet connectivity were significantly reduced. In the decade after 2006, the global Internet has increased exponentially, reaching a penetration rate of more than 45%. As early as 2018, it was estimated that between 200,000 and 30 million users used or had access to encrypted assets. This is about 0.45% of the worldwide adoption rate, which is equivalent to the Internet adoption rate in 1990. This puts the blockchain firmly in the early adopter phase of diffusion.

The media market has also undergone tremendous changes in the last two decades, but the mechanisms behind these have not changed. Like many paper-based media, radio stations began to make mobile information apps. Millions of media apps exist and make billion of profit, but the benefits of information disseminators and original news publishers from the app remain unchanged.

Cryptool believes that blockchain technology and the cryptocurrencies will be the key factor to reform the mobile media industry. Cryptool has user preference analysis and accurate news push based on spectral clustering, and news dissemination rebate mechanism under the new economy. Users will have a good experience; publishers and communicators (media and users who are willing to share) can get the corresponding benefits.

1. Industry Pain Point

For many of the current community management, most of them adopt a centralized management model, and there are four obvious shortcomings:

1. The lack of anonymous/real-name free switching community tools:

In the rapid development of the blockchain industry, Token is the core driving force of its growth. Substituting investment is a high value-added and high-knowledge behaviour in the process of promoting the development of the industry. Token crowdfunding has a privacy feature, and the market is in desperate need of a social and service tool that combines “privacy and mass communication” to provide a more friendly community service for blockchain projects, and this tool will be a huge traditional The wealth management market (funds, stocks, insurance, etc.) provides a very convenient way to communicate.

2. Organizational dictatorship:

In a traditional organizational structure around an individual (or group) as its core, individuals (or groups) at the centre of the community have the greatest decision-making power over community things. This form of organization has a certain degree of dictatorship in the resolution. The development of the community must be attached to this centre, and the limited ability of individual ability will affect the infinite development of the organization.

3. Fragmentation of information:

The mainstream community communication tools, such as telegram, WhatsApp, WeChat group, etc. , there are serious problems such as resource decentralization, information fragmentation, and management inefficiency. The most important thing is the lack of a set of actions. Effective community content management and optimization tools.

4.False information:

Whether it is a centralized community or a decentralized community, it is inevitable to publish false information; in a centralized community, false information is difficult to identify, easy to delete, and the cost of forging information is low; For example,

the WeChat community has a variety of fake news, and the water army trumpet is close to zero cost, which affects the sound development of the market.

5) Inconvenient trading: New players in cryptocurrencies face the most significant challenges once they want to use a new exchange. The registration process is cumbersome and the help of the documentation is small. It's challenging to let the novices operate on the platform. If they can't figure out how to use the exchange, solving this problem will do a lot of work to help users adopt cryptocurrencies. So far, the biggest complaint users have about using existing cryptocurrency exchanges is Poor customer support. There are many problems, including long withdrawal times, login issues, unanswered support tickets, and non-existing documents. Since some simple things are as simple as a 2-factor authentication reset, no one can help. It wastes a lot of time for users and depletes their investment enthusiasm.

2. Cryptool: The First Content Exchange

The Cryptool Platform committed to promoting the balance of current newsworthy events and the dissemination of factual observations. The mission of Cryptool is to create news/ content that enhances both the power of the reader and the integrity of the author. Cryptool is determined to become the most trusted and democratic news media outside the mainstream media. At the same time, for newcomers to the cryptocurrency, smooth user experience is lacking in current communication. The mainstream software trading page on the market is full of order books, charts, lots of scrolling numbers and complicated order forms. It is good for an experienced trader who knows what all the numbers mean, but for an inexperienced trader, they may be forced to quit with frustration.

2. 1 Token Recommendation System

Unlike the overwhelming news push of general software, Cryptool will ensure that our users see what they want based on the Customer Recommendation Algorithm (CRA), whether it is for the project side or for the user, it is a precise positioning or precise marketing. for example:



A.Content-based: Content-based algorithms recommend content similar to the previous ones. The same type of project, Or token of the same price category.

B.Collaboration: Collaborative filtering algorithms find users with similar tastes and then recommend to others what others like content. It's like asking all friends with similar tastes to recommend. To some extent, these algorithms can take advantage of the intelligence of all of your users and can make accurate recommendations without knowing what they recommend.

We first compare and evaluate the user recommendation model by running a baseline model, and then we will use collaborative filtering. A simple example is as follows:

```
Def model ( train_data , name , user_id , item_id , target , users_to_recommend
, n_rec , n_display ) :
    If name == 'popular' :
        model = tc.popularity_recommender .create ( train_data ,
        USER_ID = USER_ID ,
        ITEM_ID = ITEM_ID ,
        target=target, )
    elif name == 'cosine' :
        model = tc.item_similarity_recommender .create ( train_data ,
        USER_ID = USER_ID ,
        ITEM_ID = ITEM_ID ,
        target=target,
        similarity_type = 'cosine' )
    elif name == 'pearson' :
        model = tc.item_similarity_recommender .create ( train_data ,
        USER_ID = USER_ID ,
        ITEM_ID = ITEM_ID ,
        target=target,
        similarity_type = 'pearson' )

    recom = model.recommend ( users = users_to_recommend , k = n_rec )
    recom.print_rows ( n_display )
    return model
```



In collaborative filtering, we recommend products based on how they purchase products. For example, if Customer 1 and Customer 2 are following similar token, for example, 1 is concerned that x, y, z, and 2 are focused on x, y, we will recommend token to customer 2. We will be in token z (target User 2's rating is calculated in the case of the token. To calculate this, we weigh the similarity measure just calculated between the target token and other items that the customer has already focused on. The weighting factor is the user's count of attention given to items that have already been focused on.

We then use the sum of the similarity measures to scale the weighted sum so that the calculated level remains within the predefined limits. Therefore, the similarity measure will be used to calculate the predicted rating of the token Z of User 2.

2. 2 Changes in the Trading Experience

Cryptool's One-click Trading interface provides the user with simple trading experience. Cryptool Provides a simple order type and detailed tutorial on how to deposit funds and transaction currency. Cryptool eliminates entry barriers created by complex order types and difficult interfaces. Instead, buying and selling is a one-click experience, similar to how e-commerce products work.

Click on the keywords of the newsletter, in the article, a one-click link to the trading interface, which opens the market for more project parties and is accepted by a wider audience. At the same time, we plan to launch social trading functions. Allow users to focus on more experienced investors by replicating the investment leader's portfolio and reflecting all future adjustments. This allows inexperienced traders or traders who do not have enough time to invest their money in transactions with more experienced people. This has great benefits for both leaders and fans.

2. 2. 1 For Leaders

Most leaders may start with the demands of a few friends and family. When sharing recommended transactions and portfolio, time constraints make it impractical to assist everyone on an individual basis. Leaders can help friends and family invest in cryptocurrencies without contacting them directly for each transaction. Instead, these fans can simply allocate funds under the direction of the leader and no longer need to be managed separately. This saves time for each participant. Over time, if leaders perform well, they will naturally follow and generate additional income in the process.

The most obvious benefit of being a successful leader in the Cryptool Social Trading Program is the ability to collect TOOL token from a single fan. Successful leaders will naturally create a name for themselves in the field of cryptocurrency investments. By linking social media accounts, leaders can naturally exert their influence by showing real trading results, which helps to build greater social transaction followers.

While not a major benefit of social trading programs, leaders with a large number of followers and reputations use the weight of their followers' funds to drive the price of their support currency. Now you can be a market enabler with legitimate profiles and followers.v

2. 2. 2 For Followers

For fans, the process is simple. After depositing funds into the Cryptool, simply select a leader, select the number of funds to allocate, and click on "Follow". The funds allocated are then used to purchase the portfolio currently held by the leader to match his/her holdings. Any future transactions made by the leader will then be matched against the current market price.



Using Cryptool social transactions allows a follower to trust someone with more experience or available time to manage their transactions. There are so many tokens available for trading, and many new tokens are created and published every day, and most people don't have time to research and evaluate. Seeking advice from experienced traders is always an option, but getting one-on-one help is time-consuming for both parties. Instead, use Cryptool social transactions to track more experienced people in the public list, even trusted friends or family.

2.3 What Value Does Blockchain Generate

The goal of Cryptool Group is to provide a one-stop solution for cryptocurrency traders and investors. Since the Cryptool infrastructure is built by investment industry professionals, the importance of timely market data has not been overlooked.

In addition, to our unique peer-to-peer digital asset platform, we are also committed to introducing education, news, trading concepts and market analysis to the cryptocurrency market. We call it - Crypto Intelligence. In terms of cryptocurrency, Cryptool firmly believes in the importance of education. There is a lot to learn in terms of technology, and it changes at a rate that many people can't keep up with. We believe that it is our responsibility to provide education to our users because we are providing them with investment tools for their hard-earned money. While investing in cryptocurrencies is always an adventurous attempt, there are certainly plenty of rewards, which is why we believe it is important for us to provide users with a large portal to increase their understanding of the encryption industry. We seek to share knowledge and best practices with the community. Leading cryptographers, researchers and traders will contribute to the Crypto Intelligence Center, providing a unique and growing knowledge base for Cryptool for beginners and professional traders. The basic content of the encrypted smart portal includes:

- A comprehensive news source from multiple sources.
- Blog articles and articles from reputable cryptocurrency traders and analysts.
- Through the technical analysis and strategic trading ideas of professional traders.
- A cryptography college that provides education, 101 and video tutorials explaining A to Z about cryptocurrencies and transactions.
- The most complete glossary of cryptographic terms.
- Linked library, the most comprehensive collection of important cryptocurrency links and resources.
- Communities, investors and traders can interact and discuss the latest market developments and trading ideas.

Ultimately, the cryptographic smart portal will become the "Bloomberg" of the encryption education and community building knowledge base. This is a one-stop venue that meets all the needs of the cryptographer to build their knowledge and maintain information. The decentralized news app will introduce a compensation model based on incentives that are implemented by the Ethereum blockchain. Cryptool will serve as an intermediate platform supported by TOOL. Every action, including writing and commenting on an article, will be made possible by these token and connecting to an Ethernet network. Cryptool rewards come from community involvement and include external sources of income such as local advertising.

In addition, because blockchain technology provides the foundation for the platform, Cryptool platform can show how the back end is making money and trading transparently, and for what reason and to whom. The blockchain-based news media platform has the ability to democratize traditional news media for the following reasons: blockchains contain data in the form of timestamp blocks, these timestamp blocks are linked together, constantly added and archived, so It is almost impossible for outsiders to manipulate existing data or information in a distributed ledger.

Next, Cryptool platform will delegate publish content rights to the public. There is no single source to control the information and feelings of published works, which is very common in traditional media. Cryptool is not subject to any special interest group or political agenda, which makes it different from most publications associated with larger entities. Finally, the core value of the blockchain is trust. This technology implements an implicit trust state that protects a system where contributors do not need to know or associate with each other. Verify or confirm the transaction with a third-party intermediary. In the ideally, it is almost completely autonomous.

2. 4 Cryptool Token Economy Overview

2. 4. 1 Introduction to the Token Economy

The token is a core component of distributed platforms such as Cryptool. In the Cryptool , for example, the token has two uses: reward contribution and perform operations. For people who are new to the cryptocurrency platform, the idea of handling token seems a bit far-fetched and unnecessary. For most people, the direct benefits of using token are not as obvious as using the more common legal currency (such as the US dollar). To a broad sense, a token is a digital key that grants access to a particular service or resource, and the technology that supports the Ethereum blockchain makes this possible.

2. 4. 2 The Role of Cryptool Token and Cryptool Integration

The Cryptool platform Token consists of a token: Cryptool. Cryptool token has a unique use on the platform and can be obtained in different ways. Cryptool token is the primary value tool that can be used to perform operations on the platform. Cryptool token can be obtained in the following ways:

Obtained through contributions point. Cryptool token is used in a Cryptool network for a wide variety of things depending on the role chosen by the contributor. For example, the author uses a Cryptool token to pay for author costs associated with submitting articles to the web. Once an article is accepted, authors can obtain Cryptool token through the participation generated by their articles.

The reader interacts with the article using Cryptool markers to view, comment, and prompt the author. At the same time, the reader's sharing helps the author to get more Cryptool token.

At the same time, the participants of the platform can obtain the Cryptool reward TOOL-Token through long-term browsing behaviour, content contribution, community activity, inviting friends and other behaviours; the quality content creator can obtain TOOL-Token.

Cryptool integration is also an accounting tool that helps to facilitate the allocation of Cryptool token rewards while providing a mechanism to ensure that the cost of Cryptool token for each behaviour remains stable. Since the provision of Cryptool token is fixed, it is likely that as the popularity of the platform increases, the demand for Cryptool token increases, and the number of Cryptool token that need to be operated on the platform needs to be adjusted. Cryptool integration provides the flexibility to determine the number of Cryptool token required to perform each operation on the platform based on network growth. Cryptool integration is automatically converted into a Cryptool token as a reward or integral for various behaviours on the Cryptool platform, accumulating through the behaviour of each user of the Cryptool.

The reward structure is rewards are made to ensure that the articles in the feed are as realistic as possible and consistent with the platform's content guidelines. Cryptool integration on the platform only as a right indication that a Cryptool token is available for distribution. As mentioned earlier, Cryptool token can be used in a variety of ways within the platform. If the Cryptool token cannot be immediately passed to the author as a prompt, it is sent to a Cryptool token pool called the reward pool.

3. Product Framework

3. 1 Cryptool Product Description

Different from the traditional information platform, Cryptool relies on the blockchain and its own core algorithm to provide users with intelligent digital currency recommendation information and provide convenient information exchange channels. Based on cluster analysis, users' personal preference data, risk types, and areas of concern are identified, and different types of digital currency information are intelligently recommended to help users obtain digital currency-related information more conveniently and quickly.

News pages have unstructured data, so we have to turn it into structured data to be. First, the downloaded webpage is cut through the word segmentation software, the stop words are removed, and the part of speech is marked. Then we will use the commonly used vector space model (VSM) to vectorize the news documents. This is the computerized programming of the news pages. Prerequisites for class handling. Each news text d is represented as a vector form as shown below:

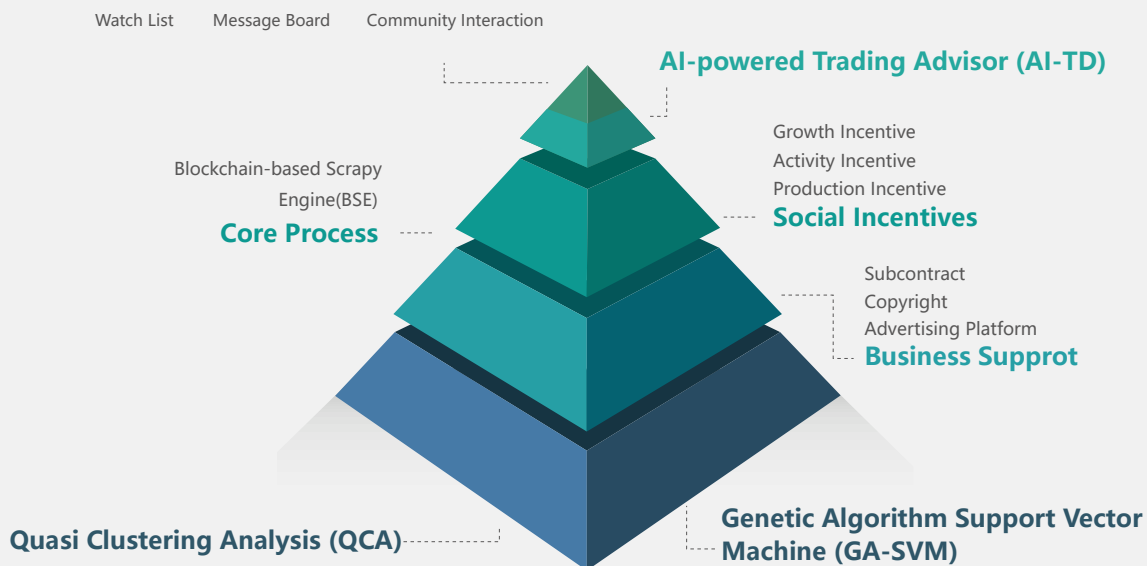
$$V(d) = (t_1, w_1(d); t_2, w_2(d); \dots; t_i, w_i(d); \dots; t_n, w_n(d))$$

1) Where t_i is the featured item of the news document and w_i is the weight of the featured item in document d . For the calculation of feature weights, this paper uses the classical TF-IDF algorithm, and the calculation formula is as follows:
 $W = \text{tf} \times \text{idf}$

For some of the hot topic, targeted delivery will be applied. We find out the feature quantity that can measure the hot event, and then summarize the formula to calculate the heat of the hot event. Since we are going to get a hot event of the year, the more the number of reports in a year or the more days it reports, the higher the heat will be. We define the number of days in a year as D , the total number of incident reports in a year is N , and the total number of reported days for this event is defined as d , and the number of articles reported is n . The formula for calculating the heat R is as follows:

$$P_i = \frac{d}{D} * \frac{n}{N}$$

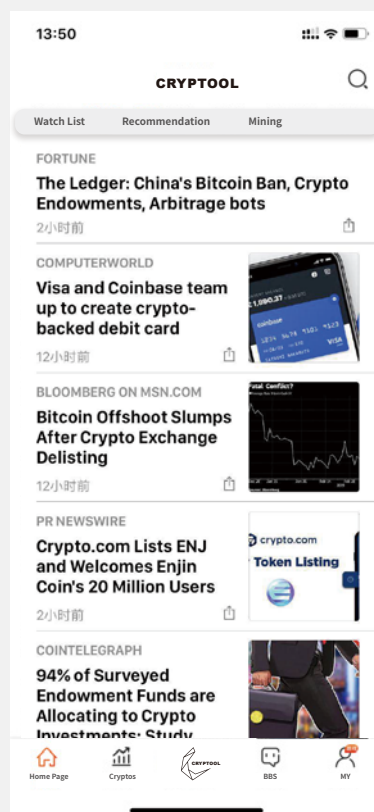
3. 2 Cryptool Product Architecture



3. 3 Cryptool Information Flow

The Cryptool information stream is the core content entry of the Cryptool product. Based on the Blockchain Scrapy Engine (BSE), the digital currency information, transaction information and social content of the whole network are captured and indexed, and the information recommendation engine is used for intelligent news push.

The user can praise, forward, comment, reward, and no longer recommend the multi-dimensional interaction behaviour of the recommendation information. The main features of the Cryptool stream: focus blockchain and digital currency, intelligent recommendation, user reading and social behaviour combined with Token incentives.



3. 4 Digital Asset Class Distribution Platform

Cryptool is introducing a new solution that uses Ethereum blockchain and cryptographic economics to exclude third-party benefits, allowing journalists to run their own operations and be accountable to their communities. Cryptool is a decentralized market for independent newsrooms, initially focusing on local, international, policy and investigative journalism.

Although Cryptool will be completely different from centralized platforms such as Facebook, Twitter and YouTube, it will take advantage of many of the same strategic advantages of platform dynamics to help participants get and match in a fair and open situation for a variety of reasons. And assign value. Each new newsroom will create additional value for a broader user base. As the promotion progresses, this line type will create a large number of talented journalists for the Cryptool Platform Conference, ensuring that citizens experience a strong content classification and participation in the community on the first day. Once the platform is online, anyone can apply to open a newsroom on the Cryptool.

3. 5 Cryptool Original Content Production Platform

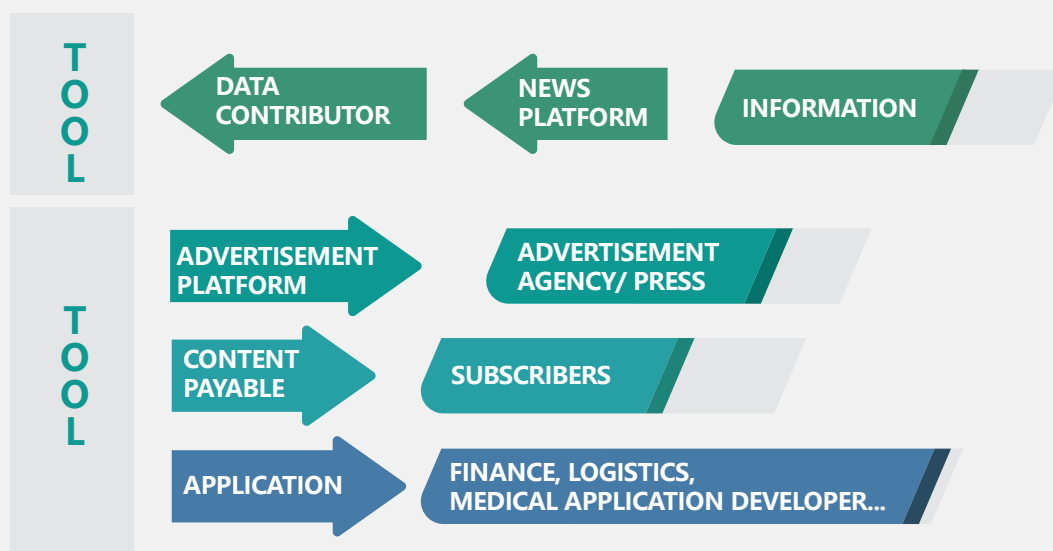
The core purpose of the original content platform is to explore high-quality blockchain content creators, share high-quality blockchain applications, and output digital currency value views to promote the forward operation of the entire platform. The original content platform gives creators different levels of platform incentives, while the creators also enjoy incentives such as user rewards. As the platform is fully functional, the platform will also provide creators with a variety of combinations of merchandise placement, AD placement, portfolio display sales, and annual subscriptions.

The original content platform is an important part of the Cryptool information stream content, and the Cryptool platform will reserve a certain percentage from the Token incentive pool for long-term support.

3. 6 Cryptool Advertising Platform

With the expansion of the user base of the Cryptool Platform and the increase in traffic, Cryptool will provide an independent advertising platform to serve the blockchain ecosystem advertisers. The Cryptool advertising platform provides various types of blockchain advertising forms in various scenarios such as information flow, community, original content, etc. , helping advertisers to obtain accurate target audience.

4. Cryptool Ecological Model



In order to effectively motivate the participants and realize the ecological development of the platform, Cryptool will issue Token-TOOL, which is a Token based on the Ether ERC20 standard, as an important value media tool in the Cryptool ecosystem. In the Cryptool platform, each participant through the sharing and use of data, Token's acquisition and consumption are effectively linked to jointly build and improve the Cryptool ecosystem. All active, growing, and creative behaviours within the system are rewarded by the user; within the system, incentive revenue is settled by TOOL-Token.

4. 1 Cryptool Function and Vision

1. Create a new decentralized community, with many decentralized community participants; community development and rule-making, not relying on a single individual (or small group), a community holding "token" Members can make recommendations for community development, rely on consensus mechanisms and actual needs to enforce rules and self-evolve.

2. Anonymous/real-name freely switchable new group social: a brand new blockchain application that supports anonymous/real-name free-switching group socialization, taking into account "privacy and mass communication" , allowing individual energy to get geometry in groups Level of volatilization; convenient group owners and group members free communication, convenient communication.

3. Group content intelligent management robot: Cryptool built-in group content intelligent management robot, can realize automatic drainage, remove group members; multi-pronged promotion group active; built-in group and group member management; establish group knowledge base; Content; rich group data analysis; community alliance cross-group management.

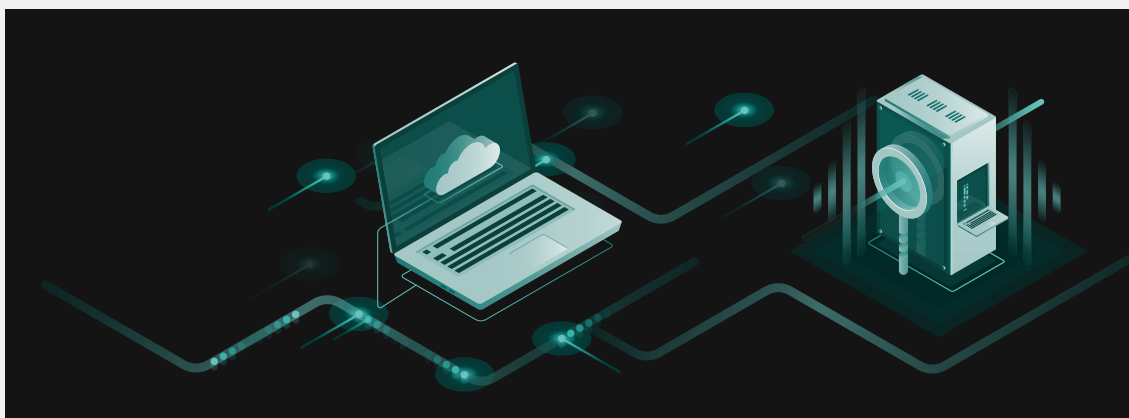
4. Community Alliance 500,000+ Traffic Basic Advantages: Blockchain industry precision fans cover 500,000+; more than 100 high-quality blockchain projects official community new, promotion, maintenance of the contractor; focus on high-quality project market intelligence exchange community, miners community Wait.

5. Community-building communities inspired by token are extremely important to the blockchain industry. Rich and high-quality token incentives help blockchain project parties quickly build and maintain their fan community. .

6. Support digital currency multi-currency airdrop, built-in asset management wallets and exchanges: token is the incentive core for the rapid development of blockchains. Cryptool supports digital currency multi-currency airdrop, using airdrop and airdrops for traffic advantages for communities, wallets, Exchange services, secure storage, trading, and control of your digital assets.

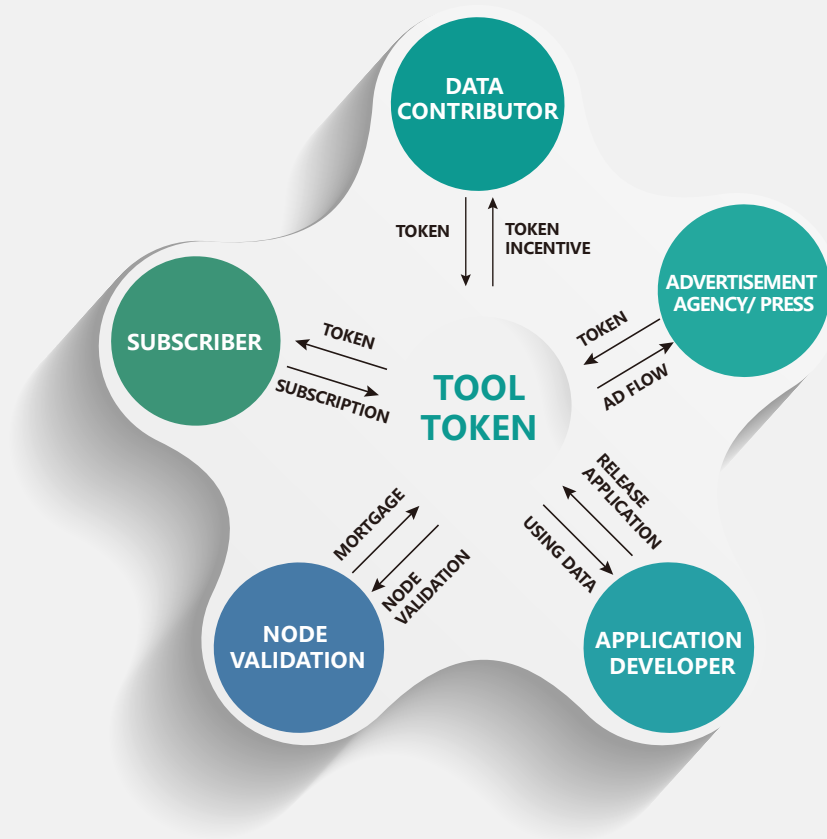
7. Focus on supporting community of both blockchain community, and wealth management community high-net-worth industries: on early stage, service mainly in blockchain community; later mainly service wealth management community (funds, stocks, insurance; wealth management managers, stock trading v, insurance brokers) People, etc.)

The operation and development of the community rely on collective efforts, internal incentives, mutual trust, and development according to certain rules. The blockchain solution is used to decentralize, trust, and anonymize the characteristics of blockchain technology. Innovative ways of community development and community operation, pursuing safer, more private, more democratic, more efficient and serving the blockchain community will greatly increase the activity of all parties involved, thus creating a market value of 10 billion USD.



4. 2 Cryptool Token Mechanism

Cryptool is based on Ethereum's public chain technology. TOOL token has the function of community incentives. If participants want to join a specific community, the organizer only needs to set participation rights. One of them is to set the token holding amount as the admission standard. The number of tokens corresponds to the effective execution of related behaviours. Any activity in the Cryptool ecology requires TOOL to be concatenated. Therefore, it is very important to design a fair, just and reasonable Token mechanism.



4. 2. 1 Tool Incentive Pool

In the Cryptool system, the number of token in the reserved Token pool for allocation to the platform is established, and the number of token per day in the Token pool is gradually reduced over time. The Token is allocated according to the algorithm model, and the token that has not been allocated on the day are counted in the Token pool of the next day.

4. 2. 2 Data Contributors

The TOOL-Token can be obtained in the Cryptool ecosystem based on user contributions, and the acquired TOOL-Token can purchase services on the Cryptool platform. For user-contributed data, the system assigns a TOOL-Token on the day based on Content Release Incentives (CRI), Split reward mechanism (SRM), and advertising model.

1. Content Release Incentives (CRI)

The content platform can obtain part of the content incentive platform into revenue and advertising revenue. This setting can encourage the platform to continuously provide better services to users. The content platform relies on the content published by users to make profits. Considering that the current cost of storage devices is extremely low, we expect that the general content storage provided by the content platform should be free or only very low cost for the end user. For users with decentralized content storage needs, we believe that they can be implemented by means of synchronization/backup services provided by different backup platforms. Users can place content on multiple backup platforms for hosting and saving by paying TOOL token. These backup platforms can also place content for backup in other decentralized content store blockchain networks (such as placing content into Sia or IPFS networks). Since the hash value of the content has been saved in the Cryptool network, the platform cannot tamper with the content without being discovered. The Cryptool network does not directly save the content itself (the content will be saved by the platform), but the hash value of the saved content is used as the basis for identifying the uniqueness of the content. Considering the potential hash collision, in order to minimize this possibility, when storing the hash value, the Cryptool will use a variety of hash algorithms to hash the content, with the first and last phase Save the way. The storage structure is as follows:

The result of hash algorithm 1 + the result of hash algorithm 2 + the result of hash algorithm 3 + the result of hash algorithm n.



The content revenue sharing function allows users to invest in excellent content generated by other users and obtain a part of their revenue share, and content producers (investors) can also obtain income and subsequent partial revenue sharing. The content producer can set the investment model and set the revenue share of the transfer and the investment deadline when publishing the content. During the term, content investors can invest in the content by share, and the content producer can first obtain a one-time income, and the content will be automatically allocated to content producers and content investors by smart contract after the lock-up period.

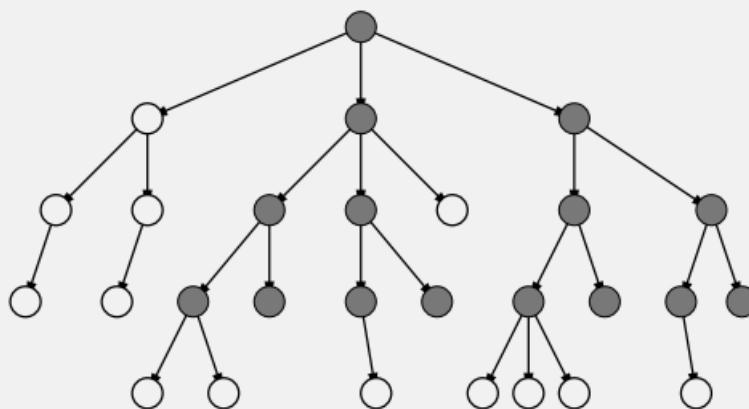
In the Cryptool network, unless the author specified, the original author defaults to allow reprinting and automatically generates a default license protocol (for example, the appropriate Creative Commons license agreement can be selected). When the original author's content is reprinted, the original author will also receive a content evaluation revenue share of no less than 20%. At the same time, User can also get a share of the rewards. Users can comment on content, and considering the comments themselves is quite valuable. Cryptool allows users to rate comments and reward them.

2. Split Reward Mechanism (SRM)

We propose an anti-splitting reward mechanism, expressed as M_{split} . Informally, mechanism M_{split} Defined in two phases: In the first phase, we define a simple basic mechanism, expressed M_{split} then, relative to the node under splitting M_{split}

Under the maximum profit that can be produced M_{split} .

mechanism M_{split} Basic mechanism M_{split} Through $RM_{base}(T)$ Set to maximum $h \in \mathbb{Z} \geq 0$ to define so that T behaves as a subtree, the perfect binary tree⁶ B is rooted in r with a height h . If the node $u \in T$ belongs to the perfect binary tree implementing $R(base(T))$, it is said to be visible in T ;



Cryptool reward formula, given some nodes $u \in T$ and $v \in \Gamma(u)$, defined

$$\begin{aligned} \text{Reward}(u, v) &= C M_{\text{split}}(u, v) - C M_{\text{split}}(u, v) \\ &= 2^{-\delta_T(v, u)} - 2^{-\Delta(u, v)} \end{aligned}$$

with

$$\text{bonus}(u) = 2^{-\Delta(u, \phi(u))}$$

$$\sum_{v \in \Gamma(u)} C M_{\text{split}}(u, v)$$

$$\sum_{v \in \Gamma(u)} 2^{1-\delta_T(u, v)} - 2^{-\Delta(u, v)} \leq \sum_{k=1}^{\delta_T(\ell(u), v)} 2^{-k} + \sum_{v \in \Gamma(u)} 2^{-\delta_T(u, v)} - 2^{-\Delta(u, v)}$$

$$1 - 2^{\delta_T(\ell(u), u)} + \sum_{v \in \Gamma(u)} \text{Reward}(u, v)$$

$$= 1 - \text{Reward}(u, \ell(u)) - \text{bouns}(u) + \sum_{v \in \Gamma(u)} \text{Reward}(u, v)$$

$$= 1 - \text{bouns}(u) + \sum_{v \in \Gamma(u) - \{\ell(u)\}} \text{Reward}(u, v)$$

The basic idea behind the split-reward mechanism (SRM) is that the company that has purchased the product is rewarded for recommending others, that is, a series of actions such as registration and forwarding by B. The incentive mechanism associated with the split-reward mechanism (CRM) can take various forms. In particular, A may be rewarded for the purchase of B and the recursive recommendation of B.

It is important to accumulate the potential of each person's small rewards to a considerable amount, as the earlier entrants will likely receive greater rewards for splitting behaviour. Everyone who comes in can be a participant or a promoter.

At the same time, this mechanism determines that people who enter late are not completely absent, because we artificially join the split ceiling, and a parent node can get up to 200 child nodes or grand children's contributions. Of course, early contributors are active because of participation time and continuous activity. The degree issue will receive an additional bonus. This mechanism will be introduced later.

3. Advertising System

The advertising system can enhance tool liquidity and increase platform revenue. The general online advertising has "pay by time for the location of the ad", as well as various charging models such as "pay per click" and "pay per view". Considering that "pay-per-click" and "pay-per-view" types of ads often encounter clicks/views of fraud, and need to introduce mechanisms such as oracles to be used by a blockchain system, in the early stages of development, Cryptool is not intended to introduce and develop this type of billing model. Instead, it will introduce a billing model that pays by time and by ad slot.

BuySellAds. com is a leading online advertising marketplace whose primary business is to sell time-based ad slots for website owners. Cryptool will adopt a similar model to provide an advertising market in the wallet, selling ads for the platform to pay for the ad position by time. In the advertising market, the advertising location options and fees that each platform can provide will be displayed, as well as the performance of these platforms in the blockchain and historical data (such as revenue, content quantity, etc.) for users to refer to. Users can pay directly to the TOOL for purchase. After the platform reviews the advertisement, the advertisement can be placed. The duration and location of the advertisement display are executed by the smart contract.

5. Business Prospects

Cryptool is committed to becoming the world's largest blockchain and digital currency value discovery platform, helping users to discover value and avoid blind spots; popularizing blockchain knowledge and promoting the healthy development of blockchain ecology; digital asset tracking for independent development and design Model to build a global evaluation system for digital assets.

5. 1 Advertising Revenue

Advertising is one of the important business models of Cryptool. Cryptool provides intelligent, reliable blockchain advertising and value analysis systems to maximize the benefits of all parties.

5. 2 Content Sharing Revenue

As the Cryptool user base grows, Cryptool invites more creators and developers to the platform to deliver better content and services. Cryptool will make a certain proportion of value-added services such as user rewards, user subscriptions, membership income, content e-commerce, decision data analysis, etc., and commercialize the content.

5. 3 Application Distribution Revenue

Providing a channel for users to download the App, corresponding to the recommended distribution of third-party applications will also become one of the sources of Cryptool revenue.

6. Release Plan

6. 1 Total & Distribution Plan

The total number of Swift Bits is 1 billion TOOL token. The distribution plan is as follows:

Distribution ratio	Distribution plan
Team operation	10%
foundation	15%
Ecological incentive fund	22%
Mining	38%
Business partner, an early investor	10%

6. 1. 1 Early Presales Section

We do not conduct private placements and guarantee regulatory compliance.

6. 1. 2 Foundation Section

Cryptool is a long-term business. In order to promote the long-term prosperity and development of Cryptool, we must continuously absorb excellent talents to work with us. At the same time, we must reach some important mileage nodes in the development of Cryptool, and we need more partners. This section is used to motivate the subsequent participation of highly-contributing team partners as well as key business partners.

6. 1. 3 Eco-incentive Fund Section

Cryptool will reserve 22% of the TOOL Token as an eco-reward fund, which is used to motivate users to be active, growing, and creative.



6. 1. 4 R&D Team, Early Contributor Part

The Cryptool R&D team provided all the product and technical support for the birth and development of Cryptool and made great efforts. Early contributors provided an indispensable part of the construction of Cryptool by contributing strong resources and funds, so feedback to the R&D team and early contributors with a reasonable share.

7. Team Introduction

Core Development Team

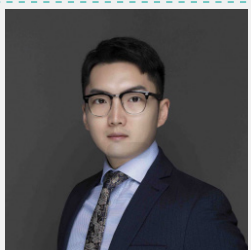
The Cryptool team is located in Singapore and Shanghai. The core members are from Ali, Huawei, Flush, and well-known foreign companies. They have an average of about 10 years of product development experience and strong technical strength.



Foundation chairman Gan Guat Choo

Graduated from the National University of Singapore (NUS), a former senior investment strategist at United Overseas Bank Limited (UOB).

Before committing to the blockchain, it is committed to building, fixing the exchange rate model, and predicting the central bank's median price setting.



Project manager Shawn hoo

5 years of experience in digital currency investment, early participants of Ethereum, immersed in the development of the encryption trading market, responsible for corporate project planning, strategic planning, years of Internet products, operational experience, and deepening the field of Internet finance, the industry is cutting-edge.



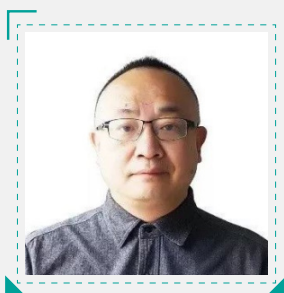
CA
Joseph

Blockchain Chief Architect, years of experience in financial technology software development and management, using his own big data module to integrate all exchange data, realize intelligent trading engine across 30+ exchanges, real-time financial forecasting model, data security, communication Security, network security, etc. are also deeply studied.



CMO
Richard Cao

Formerly the manager of the famous American brand Callaway Golf China, BCC. Global is the executive director.
Shanghai Jiaotong University EMBA.



Project consultant
Cao. Lingbo

Ph. D. in mathematics from Queen's University, Canada, co-founder of the Silicon Valley Bit Block Lab in the United States, interviewed by the People's Daily Overseas Edition, China Optics Valley 3551 talent introduction, guest speakers at several blockchain summit forums, "Subversive Innovation Blocks" How the chain technology will change the world"



Project Consultant & Angel Investor
Neil Kuang

Block Village Founder & CEO

8. Investment institutions



FutureMoney focuses on the technological innovation and application of the blockchain industry and is committed to the development of high-performance blockchain systems, promoting the combination of blockchain and artificial intelligence, distributed computing, and big data.

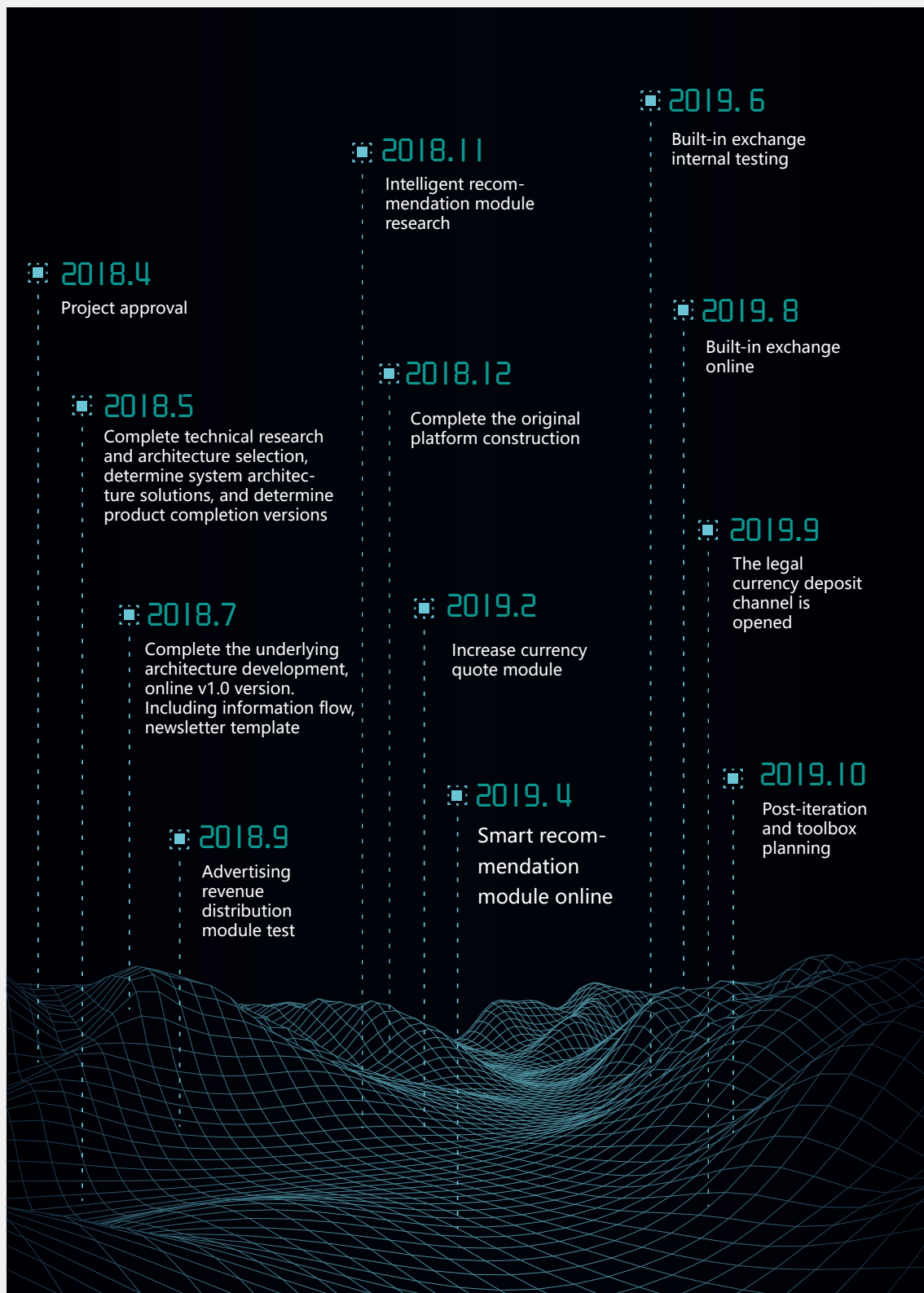


Block Village is a blockchain eco-brand invested by Huaxi Group (SZ. 000936). Based on the core value system of Research/Invest/Exchange, it has been deeply involved in blockchain technology research and development, talent training, and digital asset FOF mother fund.



Coineal Labs is a wholly-owned blockchain incubator company based on Coineal, the world's leading exchange. Cryptool will receive full support from Coineal and Coineal's agents and brands in Korea, Japan, Russia and Vietnam.

9. Development Plan



10. Disclaimer

This document is for informational purposes only and does not constitute an opinion regarding the purchase or sale of digital assets. Any similar proposal

Or the recommendation will be made under a trusted clause and with the applicable laws, and the above information or analysis does not constitute investment decisions or specific recommendations.

This document does not constitute any investment advice, investment intention or instructed investment in digital assets.

This document is not intended to be, and is not, to be construed as providing any purchase or sale, or an invitation to buy or sell any form of digital asset, or any form of contract or commitment. Cryptool shall not be liable for any direct or indirect damages resulting from participation in the Cryptool Token (TOOL) Program, including but not limited to:

- 1) This document provides the reliability of all information;
- 2) Any errors, omissions or inaccuracies arising from this;
- 3) Or any resulting behaviour;

In addition, those who do not use their Fast Token (TOOL) correctly, such as losing the wallet private key, may lose all rights to use the Cryptool Token (TOOL), and may even lose their Cryptool Token (TOOL).

The Cryptool Token (TOOL) is not a kind of ownership or control. Having a Cryptool Token (TOOL) does not represent ownership of the Cryptool Decentralized Platform. The Token (TOOL) does not grant any individual the right to participate, control or make any decision regarding the Cryptool Decentralized Platform.

Risk Warning

As a new investment model, digital asset investment has various risks, and potential investors need to carefully evaluate Estimate the investment risk and the ability to withstand its own risks.

Risk of Losing Cryptool Token (TOOL) Due to Risk of Loss of Private Key

The relevant login credentials for the Fast Token (TOOL) purchaser, missing these credentials will result in the loss of the Cryptool Token (TOOL). The best way to securely store your login credentials is for the buyer to separate the credentials into one or several locations for secure storage and preferably not to store and expose them to dangerous locations. After the purchaser's Cryptool Token (TOOL) extracts its own digital wallet address, the only way to manipulate the content contained in the address is the purchaser's relevant key (ie, the private key or the wallet password). The user is personally responsible for protecting the relevant key for signing the circulation of the ownership of the asset. The user understands and accepts that if his private key file or password is lost or stolen, respectively, the Cryptool Token (TOOL) associated with the user account (address) or password will be unrecoverable and will be permanently lost. The best way to securely log in credentials is for the buyer to separate the keys into one or several places for secure storage, and preferably not to store them on a public computer.

Regulatory Risk

Due to the early development of the blockchain, the relevant laws and regulations related to the pre-requirements, circulation requirements, information disclosure requirements, and lock-in requirements in the TGE process are not perfect. And it is still unclear how the current policy will be implemented. These factors may have an uncertain impact on the investment and liquidity of the project.

Blockchain technology has become the main target of regulation in all major countries in the world. If the regulatory body intervenes or exerts influence, the Cryptool platform may be affected by it, such as decree restrictions on the use and sale of token, such as TOOL. It is possible to limit, hinder or even directly terminate the development of Cryptool platforms and Cryptool Token (TOOL).

Competitive Risk

With the development of information technology and mobile Internet, digital assets represented by “bitcoin” have gradually emerged, and various decentralized applications have continued to emerge, and competition in the industry has become increasingly fierce. However, with the emergence and expansion of other application platforms, the community will face continuous operational pressure and certain market competition risks.

Risk of Staff Turnover

The Cryptool Platform brings together a team of technical and consultants with leading and experienced experience in their respective fields of expertise, including professionals who have long been involved in the blockchain industry and core teams with extensive experience in developing and operating Internet products. The stability and advisory resources of the core team are important to the Cryptool platform to maintain the core competitiveness of the industry. The loss of core personnel or consultants may affect the stable operation of the platform or have a certain adverse impact on future development.

Risk of Hacking or Theft

Hackers or other organizations or countries have the possibility to attempt to interrupt the Cryptool Platform functionality in any way, including but not limited

to denial of service attacks, Sybil attacks, guerrilla attacks, malware attacks, or consistency attacks.

Risk of Uninsured Losses

Unlike accounts in bank accounts or other financial institutions, there is usually no insurance coverage stored on the Cryptool Platform account or the relevant blockchain network. In any case, there will be no open individual organizations that cover your losses.

Core Protocol Related Risks

The current stage of the Cryptool Platform is based on the well-being of the well-being chain, so any failures in the well-being chain, unpredictable functional problems or attacks can cause the fast-bit platform to stop working or lack function in an unpredictable way.

Systemic Risk

A fatal flaw in the software that is overlooked or a large-scale failure of the global network infrastructure. While some of these risks will be greatly reduced over time, such as fixing vulnerabilities and breaking the computational bottleneck, other risks remain unpredictable, such as political factors or natural disasters that may cause partial or global Internet disruptions. Application risk of failure

The Cryptool platform may fail due to various reasons or unknowns (such as large-scale node downtime), and the service cannot be provided normally. In severe cases, the user's Cryptool Token (TOOL) may be lost.

The Application or Product Does Not Meet the Expected Risk of Itself or the Purchaser

The Cryptool platform is currently in the iterative development phase, and any Cryptool Token (TOOL) itself or the buyer's expectation or imagination of the function or form of the Cryptool platform or the Cryptool Token (TOOL), including the behaviour of the participants, is possible. Failure to meet expectations, any erroneous analysis, a design change, etc. may cause this to happen.

Other Risks

The cryptographic-based digital token is new and untested technology. In addition to the risks mentioned in this white paper, there are some risks that the founding team has not mentioned or expected. In addition, other risks may occur suddenly or in combination with a variety of risks already mentioned.