



Consumption Data Asset Block Chain Transaction
Platform (CDC) Project White Paper

CDC Foundation

cdcfoundation@gmail.com
<http://cdcf.io>

Contents

Introduction	3
1. What is CDC?.....	5
1.1 Background	7
1.1.1 Centralized operation platform – Incomplete consumption data	9
1.1.2 No privacy protection + Failure in reasonable dynamic evaluation of value for full consumption data spectrum	9
1.1.3 "Insufficient authenticity and accuracy + Value" and unfair distinction of "value" and interest	10
1.2 Solutions	10
1.2.1 Economic system	11
1.2.2 Smart contract dealing market	14
1.2.3 Incentive mechanism.....	14
2. Who we are?.....	15
3. Infrastructures.....	16
3.1 CDC.....	16
3.2 Performance optimization	17
3.3 Solutions to block chain data explosion	18
3.4 How to demonstrate CDC will not cache settled data with cryptology	18
4. Features	19
5. Incentives.....	19
6. Roadmap	20
7. Laws and regulations	22
7.1 Operation body	22
7.2 Governance structure and voting.....	22
8. Rules for exchange	23
9. Team members.....	25
10. Risk alert	28
11. Contact information	30

■ Introduction

The history of human civilization development is the history of economic development.

The cores of human activities are production and consumption. In the industrial age, the requirements for material production are met, and in the internet age, material consumption has been greatly promoted and made convenient. The development of currencies and the rapid popularity of the credit card, online payment and other payment modes bring along the core data asset in consumption – "Consumption bills", which continue the outreaking increase and accumulation.

However, the current underlying structure of such consumption data assets is disorderly, and the uniform personal consumption data assets have not been formed. From clothing, foods, housing and travel to healthcare, amusement, education and tourism, and from basic consumption, upgraded consumption to high-end consumption, each market is of the size of tens of billions dollars in the world, with billions of people accumulating their own "bills" in various scenarios every day, i.e. personal consumption data assets, to form the own consumption spectrum, but such consumption activities have been scattered in the "Centralized monopolized data servers" of service providers, and the users actually contributing to such "bills" and contributing to the truest personal data assets are blocked from such servers.



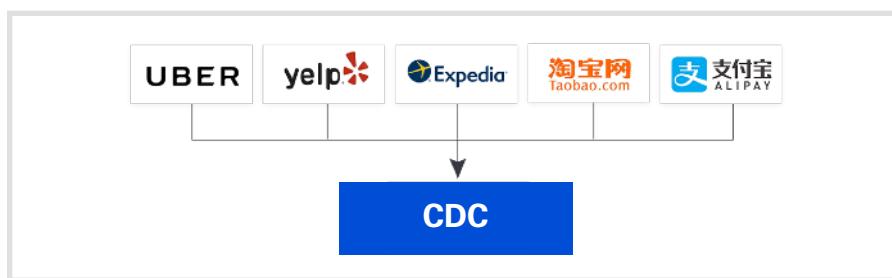
The basic form of the economic activities of human beings is "the recorded consumption", an activity hat will never vanish. No matter in any corner of the earth, the human consumption activity each time shall be recorded and stored with any physical or online medium. If it is possible to extract the assets of "Storage+Accumulation+Linking" from consumption data bills produced by billions of people all the time as much as possible, and form a real time dynamic online statistic network, we will have a global holographic consumption spectrum of all human beings.

To record the human civilization and create the global consumption spectrum, we launch the CDC (commerce data connection), a chain block based global

consumption data asset transaction platform, to consumers in the world. For each city, street, shop and person, we provide an convenient bill uploading tool, to make such dead bills after completing one time of consumption come alive and become the gold mine of data. The true value of each consumption is not the matching of production and consumption, but the recording of an irreversible historical event occurring on the earth at any moment, an interaction of human civilization acts.

We can anticipate that, in the new world with shared use, understanding and interest, CDC shall quickly upload the consumption bills, and complete classification and storage of consumption data with AI automatic identification. The block chain underlying protocol of CDC is intended for our participation in the integrated open source mechanism connecting with the sharing, recording, verification and application of all true consumption data, to make all the consumption data simple and reliable through decentralization, and every consumer become a sharer of the smart contract and database, and receive rewards through the sharing incentive mechanism.

CDC shall change the production, distribution and transaction modes of consumption data assets in the world with the block chain technologies, and ultimately create consumption and own and transact consumption data through individuals and businesses. We will create a new "decentralized" consumption data transaction system, more flexible than the existing centralized data system, with lower cost and available to encourage more users to contribute consumption data, to turn the bills from waste to wealth, realize the global sharing of consumption data assets and reduce and finally eliminate data islands.

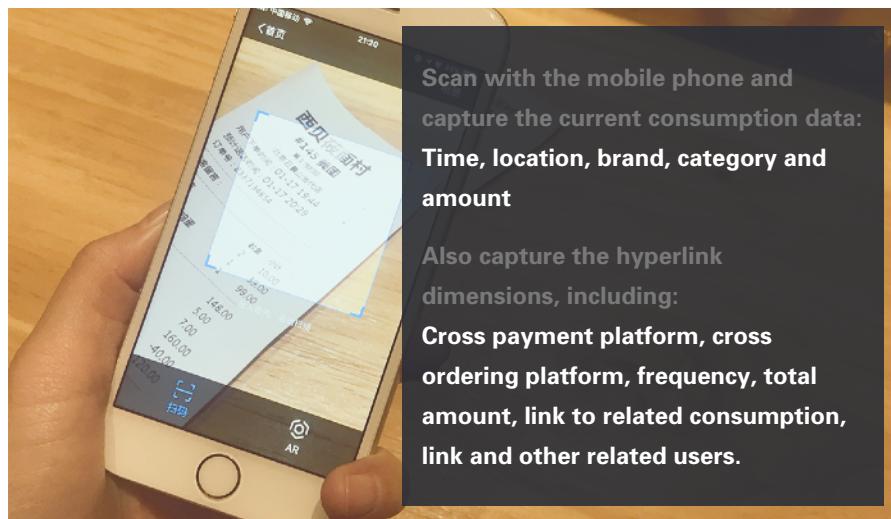


No "center" is required in creation and production of consumption data. Although most of the platforms as the "Center" operate satisfactorily now, all these are achieved with the high percentage profit shares of the platform, high business communication cost and high marketing costs. The "Centers" usually provide the content assessment, resource rating and other services involving content quality definition and distribution, and due to the lack of the open and transparent evaluation standards, they would, based on the own KPI requirements, require the in-content rebates and excessive publishing from the businesses, and the quick profits of the contents for reducing the life cycle of the consumer products and services. Such conventional centralized review and distribution mechanism has made the fairness and equality impossible, and failed to provide the initial benefits of "Convenience, high efficiency and low cost" brought by internet to human beings.

To solve the pain point in the industry, we designed encrypted digital currency based "CDC" (commerce data connection) with block chain and smart contract technologies.

The "distributed decentralized" global consumption data asset ecosystem with CDC as the economic basis can theoretically reduce the cost for obtaining and transacting consumption data assets to the minimum. The subunits are autonomous, and can realize the Nash equilibrium based balance of the entire ecosystem. In such an open, fair and democratic ecosystem available for everyone and without a center, every developer will obtain the maximum benefits for his/her consumption data assets.

The network shall allow the developer of the consumption data asset contents to self define the standards for data sharing and payment, and produce the non-collaborative game equilibrium with the weighted algorithms for the tokens obtained for uploading, distributing and sharing bills by each consumer per unit time, the tokens obtained from transmission and sharing, and the tokens consumed by high amount reward providers, to dynamically define the data quality of the consumption data platform, and obtain the optimal matching between consumers and businesses with the high quality consumption data, based on collaborative content filtering and other recommended algorithms. All subunits have the high level autonomy, with the nonlinear causal relationship between themselves.

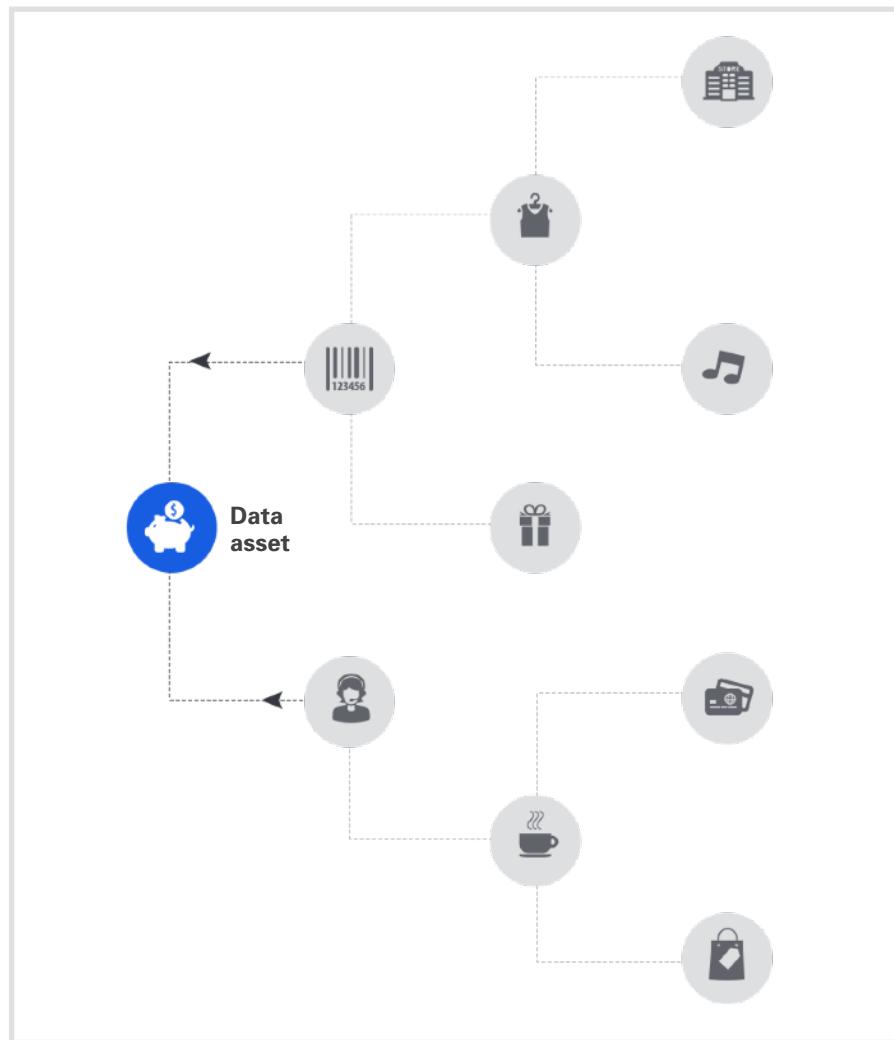


1. What is CDC?

CDC will change the conventional modes for creating consumption data , and data obtaining, analysis, distribution, sharing, profit sharing and settlement between users, and enable the transaction of valued consumption data assets favored by users and businesses continuously developed by the "subunits". Such consumption data asset distribution system is more flexible, convenient, efficient and low cost than the existing centralized distribution system, and enables more high quality consumption data assets to realize the value. It is an ambitious goal and is being

realized step by step.

According to the concept of CDC, each consumption actually corresponds to the bill of a certain form, i.e. tens of billions of bills in the world every day. Individual consumers provide the consumption data marks, but do not receive the advertising benefits for data accumulation, so it is essentially unfair. The more bills and consumption marks you provide, the more reward tokens you should receive and the higher shares of advertising you should obtain.



CDC has established CDC Foundation under the CDC Platform as the developer and operator of CDC products, and one of the typical organizations operating for the CDCCoin ecosystem. The Foundation itself will incubate and operate quality consumption data assets, similar to the consumption data operator developing the own consumption data, and establish the first CDC based operator company for demonstration to the future participants in the ecosystem. As other organizations, CDC Foundation has the corresponding rights and responsibilities in the ecosystem. CDC Foundation shall cooperate with

world leading companies in catering, amusement, travel, culture, sports, healthcare, education, etc., providing them with CDC based point to point operation services for their consumption data assets.

Target global partners of CDC:



CDC partners:

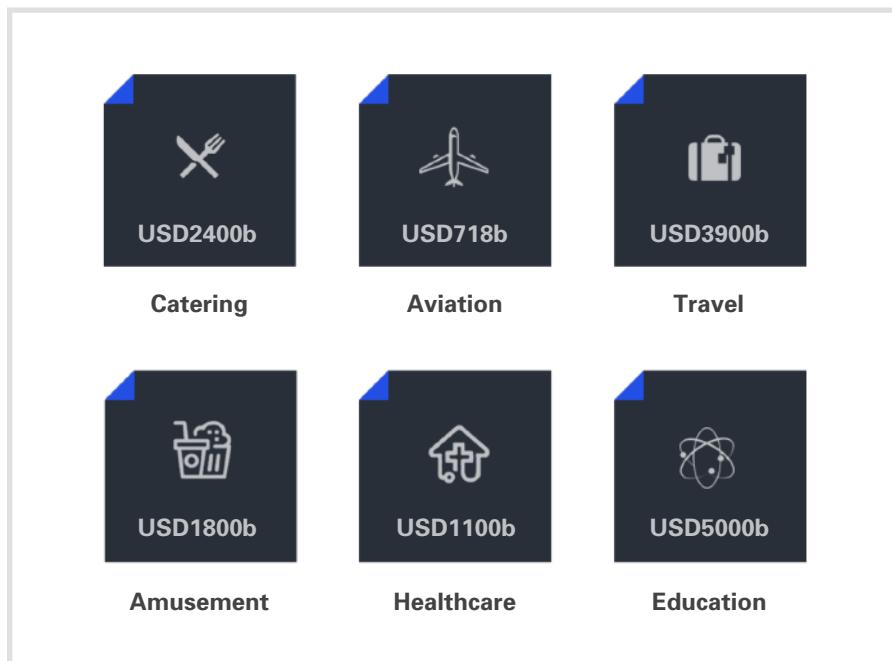


1.1 Background

Analysis of major consumption data stocks in the world:

- Size of consumption in global catering market: USD2400 billion in 2016;

- Size of consumption in global aviation market: USD718 billion in 2016;
- Size of consumption in global shared travel market: USD3900 billion in 2016;
- Size of consumption in global amusement market: USD1800 billion in 2016;
- Size of consumption in global healthcare market (excluding medical devices): USD1100 billion in 2016;
- Size of consumption in global education market: USD5000 billion in 2016.



Whether for catering, tourism, travel, education, healthcare, culture, amusement, etc. in the world, in the process from the businesses to the third party data providers and consumers, all consumption data is distributed through such centralized platforms, and such platforms shall collect 10–50% from the profits. In the business mode with the "Centralized" platforms, the business shall concern about the product services, pay for the expensive advertising, and even manage "spam ranking", "self recharging", "fabricating data", etc. to exchange for the satisfactory marketing condition, and finally approach the target users.

In the offline scenarios, numerous consumption data is concealed in UBER, YELP, APPLEPAY, VISA, MASTERCARD, GOOGLE, FACEBOOK and other central platform "islands", however, each consumption will still produce a "unique" irreplaceable physical consumption bill or an "online consumption bill" that can be captured on screen, totally synchronous with the consumption behavior and consumption data and completely authentic. If more and more consumption bills are shared and uploaded by users to the "Consumption chain" platform, the businesses may buy the "data analysis services" and "accurate advertising marketing services" permitted by the user and awarded with tokens to the user, via the "Consumption chain" platform and using tokens. With the continuous increase of users on Terminal C, CDC shall attract participation of users from Terminal B gradually, and finally develop into a consumption data asset transaction platform and advertising networking providing services to everyone, and a decentralized "block chain based consumption asset advertising ecosystem".

1.1.1 Centralized operation platform – Incomplete consumption data

On a centralized consumption data operation platform, data analysis content "purchase" is operated by hand, data "review" by hand, traffic allocation by hand, and financial accounting and settlement also by hand. The developer shall use a lot of time and efforts in the process for uploading the contents to the center.

Due to the uncertainty of "manual" operation after uploading consumption data and KPIs allotted by the center, the development practices featuring "consuming users" and "fast product" as "quick profiting", "visual attraction", "vulgar inducing", "piracy and plagiarizing", etc. may occur, causing damage to the content ecosystem of the platform, and other high quality innovative products and teams unable for incubation in the central platform. If such condition continues all the time, the fairness and equality of the platform shall be impaired, leading to loss of users.

1.1.2 No privacy protection + Failure in reasonable dynamic evaluation of value for full consumption data spectrum

No uniform consensus has been achieved on privacy protection and other important issues in legislation for credit investigation. CDC provides the data value analysis, and also the 2-way data anonymity as the privacy protection mechanism, achieving the value of the consumption spectrum as well as the high advertising marketing value, with the accuracy in targeting and the driving force for user behavior much higher than those of the existing centralized or isolated advertising platform.

For instance, Airline A may, via the CDC Platform and using CDC tokens, send the invitation for pushing advertising to users having uploaded the Boarding Card or the ticket bill of Airline B, and give CDC tokens as the reward to target users; and if accepting the advertising, such users can obtain the advertising contents and token rewards of Airline A. However, due to the user anonymity protection mechanism, Airline A cannot know the actual name of the user, instead, it conducts the advertising launch transaction based on the data assets generated from the uploaded data after the system testing and analyzing the bills.

For the case of Snack Bar A, Snack Bar B near my home may adopt the same method to accurately launch the advertising to users uploading bills with the following features on the platform:

- A specific time period (within 3 days);
- A geographic unit (within 2km to a coordinate point);
- A product type (a Hamburger);
- A unit price range (USD5–8).

The centralized advertising platforms as GOOGLE, FACEBOOK and TWITTER launch advertising based on "Key word search", but it can only represent the "Interest degree" of users, and it cannot be accurately defined as the "consumption behavior". Therefore, the advertising services on the CDC Platform are based on the bill data produced from "true historical events already happened", with the accuracy and value of the advertising significantly higher than those of the conventional advertising platforms. CDC may be the most desirable advertising platform accurately targeted at "Specific individual+Multiple consumption" in the world.

For the conventional consumption data asset platform, the centers of the industries usually provides the ranking and calculation of the ranking list of catering, amusement, travel, culture and other consumption data assets, involving definition of the data quality and distribution services; while the consumption data is of the dynamic "bill exchange rate", with the life cycle and the gradually growing fan users, and the bill exchange rate will change at any time during the interaction of businesses and users.

However, the conventional centralized consumption data services are unable to realize the open and transparent rating of consumption bill valued products, nor adjust the traffic distribution according to value change from time to time, so the consumption data review and distribution mechanism has made the fairness and equality impossible, and failed to provide the most important benefits of "Convenience, high efficiency and low cost" brought by internet to human beings.



1.1.3 "Insufficient authenticity and accuracy + Value" and unfair distinction of "value" and interest

The consumption data asset transaction market is disorderly, and it is unable to achieve the uniform criteria for collecting and reviewing such data assets, severely damaging the proper rights and interests of the data developers. Due to the high percentage shares of the central platforms for consumption data assets, and the shares for common businesses, channel providers, advertisers and other intermediates, the actual consumers cannot obtain the benefits from transaction of consumption data assets, leading to loss of the virtually high quality consumption data assets by the autonomous closed loop. Individual consumers provide the consumption data marks, but do not receive the advertising benefits for data accumulation, so it is essentially unfair.

The terminal businesses of consumption data use all the efforts on business communication with the central platform, not on development of the actual consumer product services. In centralized channels, there emerge the abnormal business modes as spam ranking, self recharging, fabricating data, etc.

1.2 Solutions

CDC is committed to creating an open, fair and democratic ecosystem for consumption data assets, with the decentralized design, allowing for users in the ecosystem to "vote" for and consume the consumption data assets with the tokens

based on block chain and smart contract.

With the CDC Platform, establish the complete consumption data and form the individual data assets, and adopt the 2-way anonymous rules with block chain, to protect the privacy of both parties in the transaction and update data at real time.



1.2.1 Economic system

The CDC ecosystem consists of 4 systems.

Consumption chain:

Realize the ownership authentication of user data assets, to establish the credit mechanism and 2-way anonymity of the assets.

Transaction of consumption assets:

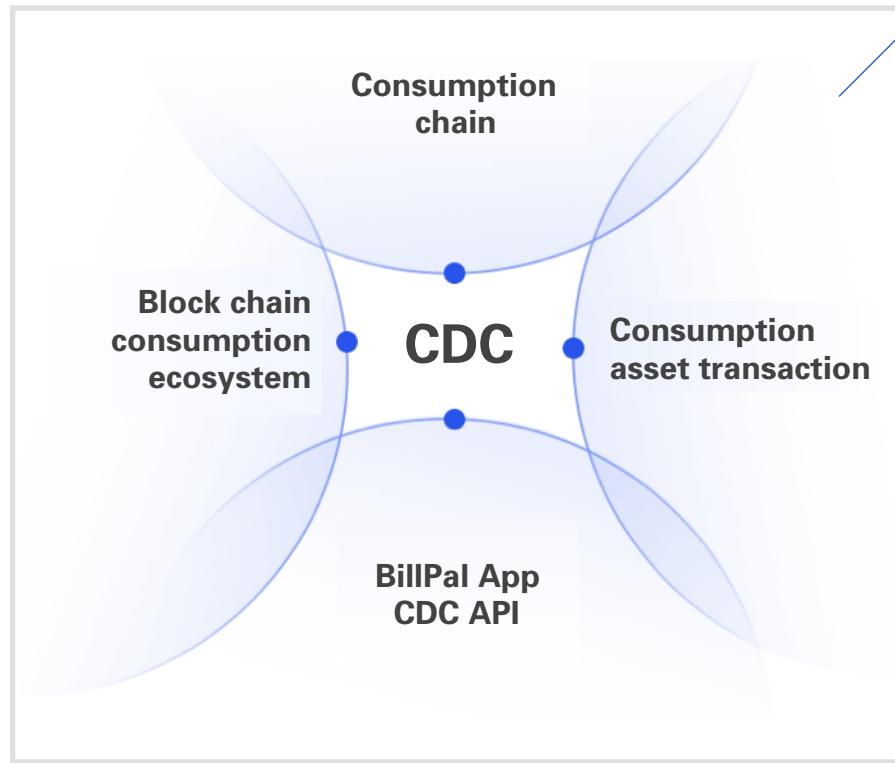
Realize decentralized P2P transaction of data assets without intermediaries, and establish the direct transaction relationship between businesses and individuals.

BillPal:

To realize digitalized storage of user consumption data with App, SDK digital interface, etc.

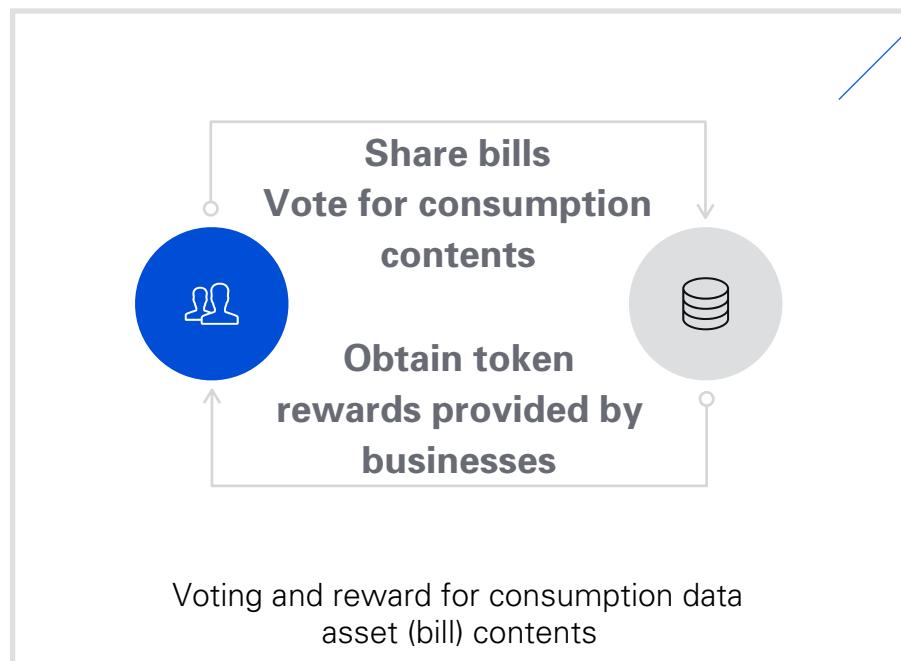
Block chain consumption ecosystem:

Stores and business companies shall become the ecological nodes of the consumption chain, conducting data management and application with the general tools of the platform.

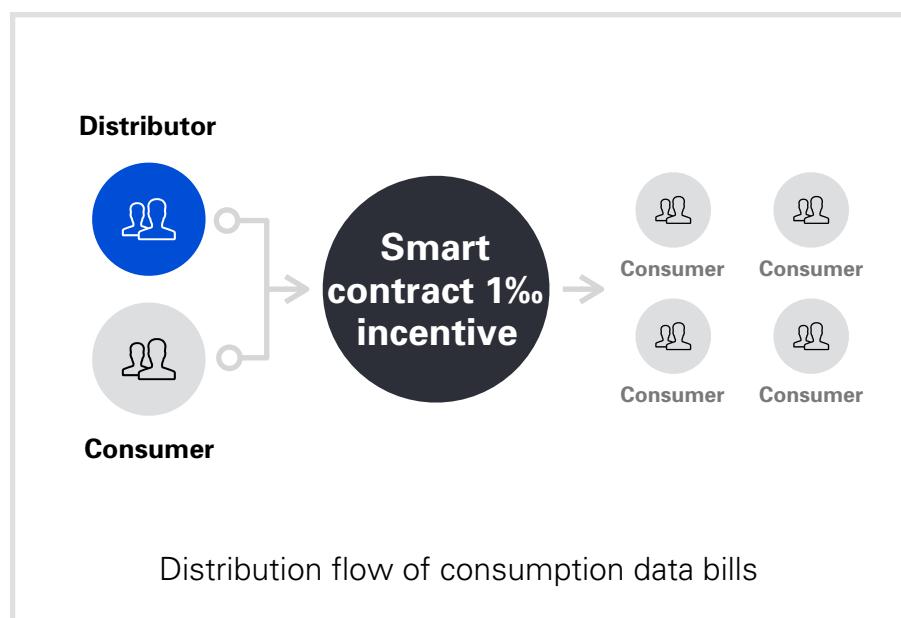


During consumption, the users in the CDC eco-chain will receive the services for the products, and also share the bills, equivalent to voting for the quality of the contents of consumption data assets. Such voting can be used to accurately and dynamically evaluate the true value of consumption data assets. The users may also decide if the bill shall be shared in CDC, to obtain the token rewards provided by CDC. Such valid consumption bill is equivalent to voting for the contents via the sharing index, while sharing the reward bill.

The consumption data content provider may also define the reward provided with tokens when distributing the contents, not conflicting with the above. The competitive relationship shall be formed between bills and between developers and businesses, to realize the goal of decentralization and high level autonomy of subunits. The high quality comments, praise and other behaviors requiring consumption of tokens also form parts of the weights for the quality evaluation system.



The system shall collect 1% of the tokens from the above consumptions as the handling fee, to increase the equivalent "recharging cost". To fully eliminate the possibility of the black box operation (the operator returns the fees to the user, leading to zero recharging), the tokens corresponding to the handling fee shall be automatically locked in an inoperable account for "destruction" (e.g. to the purse address of 0x000000000000). Similar to the real society, the developer and consumer shall define the user level in the social network with the amount of tokens held publicly, and the historical amount of tokens consumed shall serve as another system of the level and be shown to other users.



The above records are stored in the distributed account, available for view by anyone.

All the above transaction records can be disclosed to all participants via the block chain distributed account, to ensure its openness and fairness.

The system shall provide the human friendly interface to facilitate query by the public.

1.2.2 Smart contract dealing market

The consumption data assets (bills) for incubation and transaction shall be placed in the transaction market for free bidding. To facilitate token allocation and automatic execution of incentives, CDC shall also open the port, allowing everyone in the ecosystem to participate in transaction and publishing of consumption data assets, self define the price or conditions for incentives, and similar to the founding team, obtain the token incentives based on the usage rate of users, i.e. no benefit shall be given to the smart contract model with no one using it, even the founding team. CDC features the distributed automatic settlement, so the consumption data content developer will not encounter the issues of account age for the values generated in the Platform, which may be caused from the reconciliation and settlement in case of the Center. In addition, any "trash" data contents without transaction will also be eliminated.

1.2.3 Incentive mechanism

(1) The incentive mechanism of the team is designed for giving the token rewards for the members of the Foundation providing services to CDC, based on the open, fair and democratic voting system, and the equal incentive conditions for the services of the entire ecosystem. The 1%00 handling fee is used for the basic operation, and preventing trash transaction, and shall be totally destructed, not used for the incentive of the team. The ultimate goal of the team is to totally deliver the CDC system to the public some day, as BitCoin, reducing the influence of the of the Foundation members to zero, and eliminating such centers available for control with influence. In the early stage, the Foundation shall hold certain percentage of CDCs to obtain the respective voting rights and influential power, and with the maturity of the system, the amount of CDCs held shall be the sole basis for voting and decision making. To avoid the unforeseeable risks, the Foundation shall design the uniform action protocol and the necessary protection measures through legal procedures, to ensure the smooth operation of the system before it becomes sufficiently strong.

(2) The decision-making committee is the highest decision-making body of CDC and its ecosystem, and it shall be represented by the core members of the Foundation at the early stage, and with the improvement of the system and distribution of the tokens, the power shall be gradually handed over to the actual holders of CDCs with the locked period. The Foundation shall also deliver the tokens held by it gradually to the market according to the plan, promise to obtain the necessary percentage of voting rights through the re-bidding by the exchange house and other institution, allowing all participants to obtain the equal opportunities.

(3) For the incentives for the ecosystem service providers, an open and transparent CDC incentive mechanism shall be jointly developed by the Technical Committee,

Data Asset Culture Committee, Ethics Committee, Product Committee, etc. established through voting by the decision-making committee, to provide the CDC ecosystem with organization of the respective services and sufficient token incentives, and the committee members shall provide CDCs according to the holding ratio.

For instance: the annual income of the members of the development group for updating the core codes, annual income of members of the organization for content review.

(4) For the incentives for the developers, consumers and distributors of consumption data asset storage transactions, the developers shall determine the amount of tokens for payment of the consumption for the data asset contents, based on the development cost and the expected income, and the system shall also provide the default price for reference, but the final right for the price is in the hand of the users. The content developer may also provide certain amount of tokens to those relaying and sharing the contents as the incentive.

The user shall consume the data content products with CDCs held, and the payee of the CDCs is the consumption data asset developer. The system shall provide the sound sharing link tracking mechanism, so as to provide the sufficient incentives for those relaying and sharing the contents. The system shall realize the maximum sharing tracking with all efforts based on the cost of technical realization and the local laws and regulations, to promote the atomic fission of the ecosystem expansion. The content providers with own traffic are also encouraged to share and distribute the quality contents. In addition to the scores obtained from the Platform, the reward for user uploading bills shall include 60% for the user, 30% for the business of the bill and 10% for the user from the secondary sharing by his/her friend. In such a manner, the businesses also encourage users to scan the bills, to achieve the common interest.

2. Who we are?

Our mission: Whoever provides data shall obtain benefits! Grateful for favors received, and equal right for data.

Our vision: Let every user to achieve the goal of "My data is under my control", and all the consumption bill data in the world is stored, shared and used for transaction more easily. We aim to change the storage, analysis and transaction mode of consumption data assets (bills). We shall provide the decentralized internet infrastructures and ecosystem for the storage, analysis and transaction mode of consumption data assets, to allow them to interact with users with the power of internet; and establish the decentralized and smart benefit distribution system based on block chain and smart contract technologies, encouraging consumption data developers for the positive circulation.

We shall establish a future oriented and totally decentralized ecosystem for consumer data asset storage/analysis transaction, to allow the consumption data asset developers and users meet and know each other and develop freely in the internet world, and eliminate the trashy and abnormal ecosystem atmosphere. With

the decentralized design, we shall finally return the rights to the public, ensure the self growing and proliferation of the entire system, and realize a decentralized, self growing and ultimate virtual social pattern, existing constantly.



3. Infrastructures

The CDC system design is a distributed distribution network for storage and transaction of consumption data assets based on block chain technology. The design concepts of all the infrastructures also comply with the 4 features of the "Hive mind":

No forced central control;
Autonomous subunits;
Highly interconnected subunits;
Point to point influences forming nonlinear causal relation with internet.

The following provides the program of the CDC platform for global consumption data asset transaction.

3.1 CDC

The underlying structure of the decentralized consumption data transaction platform is an independent open source protocol named CDC ("commerce data connection") iteratively developed by our team. It is an alliance chain (with certain access threshold) operating on the public network (open internet), with the original codes forked with Graphene (core of Bitshares2.0), and incorporated with the block chain functional protocol of Emercoin and anonymous design of Monero. The team made substantial amendments to Graphene according to the business requirements, and developed the codes dedicated for CDC.

The main development contents of the team include:

(1) A new concensus mechanism (PoCS – Proof of Credit Share), to solve the problem of inequity in sharing between companies with different data size,

according to the credit contribution proving mechanism;

(2) Data asset ownership authentication function (DPO – Digital Proof of Ownership), used for authenticating each data for the data source transaction, providing the separate digital copyright certificate for each data sold, and recording it on the block chain;

(3) Asymmetric encryption function for data transmission during transaction, to ensure the safety of data transaction, without disclosure or settlement in the entire process;

(4) Anonymous design added on the basis of graphene, to meet the requirements of anonymity for both parties of the transaction;

(5) JSON-RPC interface added on the existing basis of light-wallet, available for all businesses to complete all interactions just by installing light-wallet, and installing witness by itself when requiring to synchronize data, more convenient;

(6) Smart contract private key signature and asymmetric matching function for decryption upon data arrival on the basis of light-wallet, to ensure the data safety; data pairing adaptor and callback mechanism, for formatting and uniform adaption of the input/output data format, to reduce amendments to data source response; and the private key decryption and automatic callback push to the business when the data bought by the business returns to the node.

Reference codes:

graphene: <https://github.com/cryptonomex/graphene>
graphene-ui: <https://github.com/cryptonomex/graphene-ui>
emercoin: <https://github.com/Emercoin/emercoin>
emcdpo: <https://github.com/Emercoin/emcdpo>
emcssl: <https://github.com/Emercoin/emcssl>
emclnx: <https://github.com/Emercoin/emclnx>
monero: <https://github.com/monero-project/monero>

3.2 Performance optimization

Graphene is incorporated with handling methods of LMAX Exchange, available for 100,000 transactions per second, due to graphene core benefited from the following key points:

- (1) Place everything in the memory;
- (2) Place core business logic in a single thread;
- (3) Place the encryption algorithm operation (Hash and signature) outside of the core business logic;
- (4) Divide the check operation into the status independent and the status dependent;
- (5) Use a target oriented data model.
- (6) Adopt the Pob method (b for bill), with bill uploading as mining behavior, hardware type mining, which is the only one in the world.

The underlying block chain of CDC is further optimized for the above 5 items, supporting the transaction frequency of millions times per second.

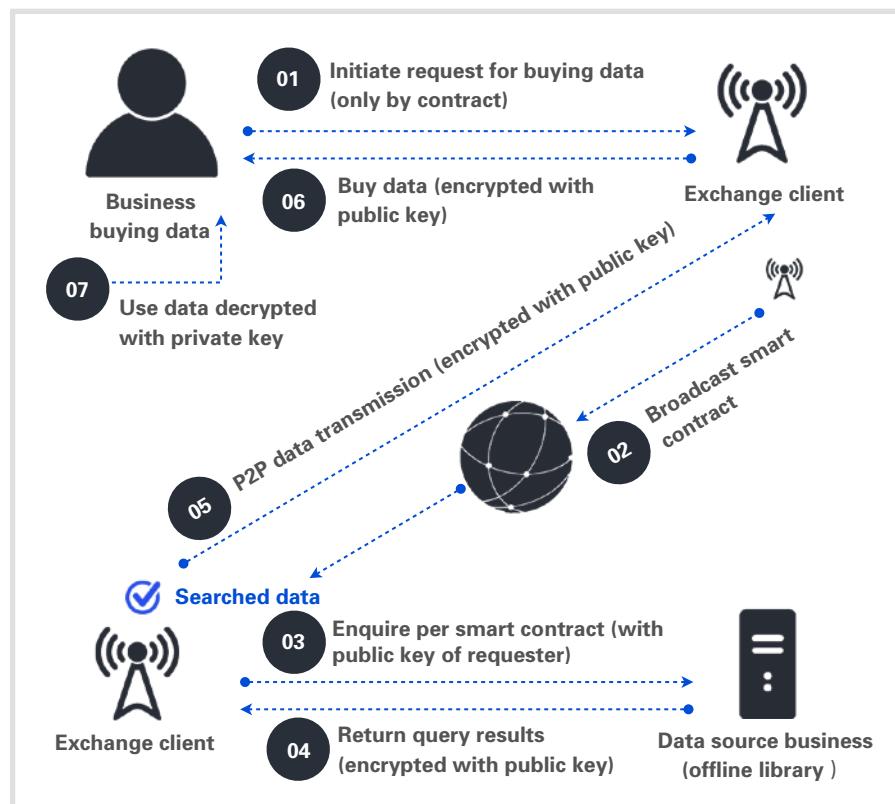
3.3 Solutions to block chain data explosion

CDC is provided with the following 2 methods as the solutions for data explosion:

- 1) Similar to graphene, CDC adopts the mechanism with witness and light-wallet split, and the nodes requiring synchronization of all accounts can run witness (full-nodes), while most of users only need to run tens of MBs of light-wallet, with light-wallet available to link to any witness. Further development on light-wallet has been made for CDC, including numerous JSON-RPC, and only the interface shall be developed for light-wallet upon business buying data, data source access and the alliance market, not requiring to rely on witness. If any business expects to synchronize the full node, witness may be installed on the server of the business, to allow light-wallet to link to the node.
- 2) Only the data transaction summary, vouchers, digital copyright and other basic information for the transaction are stored on CDC, while the source data and encrypted source data for the transaction shall not be stored, to reduce the size of the block, and eliminate the risk of obtaining the account data by exploding the encryption algorithm.

3.4 How to demonstrate CDC will not cache settled data with cryptology

We shall explain it with an example of data transmission between a data buyer node and a data source node:



Business A buying the data shall sign the smart contract with the private key (the private key is generated at the own client of the business according to the specific method, and cannot be obtained by others), send the data with the own public key, and broadcast to the nodes in the entire network via the client of the exchange house. As shown in the above figure, the data source business node receives the broadcast, and calls the data interface of the data source for query; when the data is found at the data source, it encrypts the source data with the public key of Business A and sends point-to-point to the client node of Business A, the client node of Business A pushes data to the data receiving interface of the business, and Business A decrypts with the private key and obtains the source data. In the entire process, the asymmetrical encryption (SM2 elliptic curve algorithm) is adopted, the public key of Business A is used for the encrypting the data, and it can only be decrypted with the private key of Business A, so the data package cannot be decrypted even if it is intercepted by others (even for CDC, without the private key), to fully protect the safety of data transmission during transaction.

4. Features

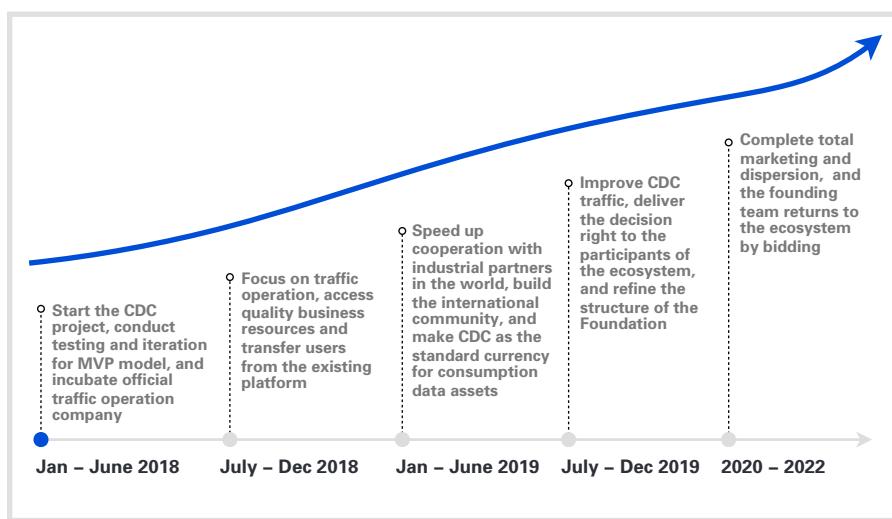
CDC is a token based on independent encrypted digital currency system, and the owners can use it to buy the relevant services in the virtual economic society built based on it, and conduct the open exchange through the third party platforms. CDC is built based on block chain and smart contract of Ethereum, and all the accounts and transaction records are open, to ensure the fairness and equality.

5. Incentives

CDC is the sole and irreplaceable encrypted virtual currency, circulating in the infrastructures built based on it. The users shall use it as the sole tool for value exchange whether in development, consumption and distribution, for maintenance of the infrastructures and technologies of the system, as well as for the exchange and incentives. The total amount of CDC is 10 billion coins, and the system shall collect 1% from all the transactions as the handling fee, and shall deduct the portion, to avoid trashy transactions, and will not obtain any profit for any team. The total amount of CDC issued based on block chain and smart contract of Ethereum will be disclosed to the public and never increase. Except the initial public offer, the founding team of the system will not have any other methods or channels to obtain CDC incentives, but can obtain the same incentives with the joint efforts of all participants in the ecosystem. Participating in the organizations for management and decision-making of the ecosystem and long-term locking of CDC amount are the basis for obtaining the discourse right by voting. The decision-making committee is encouraged to hold CDCs for a long time, to maximize the long-term values of CDC.

6. Roadmap

The development of CDC shall include the short-term construction and the long-term improvement, and with the maturity and popularity of block chain and smart contract technologies, the following strategies steps shall gradually implemented. The strategic plan just describes the critical nodes, not a detailed development plan, and the details shall be disclosed on our official website (<http://cdcf.io>) according to the actual conditions.



January 2018 – June 2018

The infrastructures for block chain and smart contract have not been well developed now in China, and there is not any matured company for block chain and smart contract based storage, software encryption, split account transaction, calculation and traffic providing. The MVP (Minimum Viable Product) model of CDC shall be first upgraded to a new brand and begin the test run on the existing matured platform; the current team has had the product experience and matured products, and shall amend and re-design the product models, and gradually transfer the centralized architecture to the decentralized one. Amazon has launched the smart cloud calculation service "lambda", with the matured and reliable technology, so the test version may be first issued under the network environment in US. We are optimistic to the improvement of the infrastructures in the area for the test. The progress of the codes in the period shall published on Github and our official website (<http://cdcf.io>), for supervision by the public.

At the same time, the first CDC based traffic operation company shall be incubated, and it is a team under CDC Company, focusing on development and operation of storage and distribution transactions for consumption data asset bills, and maintenance of the traffic. The team shall operate and maintain the consumption

data assets and customer relationship according to the existing market condition, and gradually transfer the users to the ecosystem of CDC when all conditions are available. After completing the test of the models in Japan and North America, we shall gradually transfer and improve the infrastructures in the world based on the market condition, and if the market condition is not available, establish some necessary centralized nodes first, and gradually eliminate them later.

July 2018 – December 2018

On the improved infrastructures, CDC Foundation shall transfer the focus to traffic operation, to increase the liquidity and scenarios of CDC, and improve the product experience. CDC is the first professional traffic operator established by the founding team of CDC, responsible for the cold start of the early stage users, providing the demonstration to the market. With the current condition of the domestic market and the understanding of the team for the market for years, the content operation shall start with the first batches of quality businesses in catering, amusement, traffic, travel, education, health and other industries, to attract the participation of clients of the existing platforms.

January 2019 – June 2019

After obtaining the initial traffic, we shall continue incubation with the infrastructures and attract participation of contents from other digital domains, and conduct pilot projects in several countries and regions, to gradually drive the atomic explosion of the entire CDC system; and cooperate with other professional operation teams of other fields, to achieve the high speed development. At the same time, CDC Foundation shall adopt the community cooperation for building the infrastructures in the world, and incubate the traffic partners, to speed up liquidity of CDC to the world market. After achieving the first successful cases, CDC Foundation shall accelerate the incubation and cooperation of more traffic centers, to cover all the cultures and countries and become the standard currency in digital entertainment services in the world.

July 2019 – December 2019

With the improvement of the CDC liquidity, the founding team shall gradually reduce the influence over the entire ecosystem, and totally transfer the right for decision to the participants of the ecosystem, and all the CDCs held shall also gradually enter the market for circulation by bidding, to disperse the ownership and truly deliver the right to the users. Improvements shall also be made to the structure and organizations of the Foundation.

2020 – 2022

After completing the total marketing and dispersion of CDC, the founding team CDC shall re-enter the entire CDC ecosystem by bidding, obtain certain percentage of CDCs, and become a part of the ecosystem, providing services to the ecosystem.

7. Laws and regulations

7.1 Operation body

The CDC team believes that "The vitality of the decentralized organization is stronger than the centralized organization, and it is the ultimate condition of the human society", so from its birth, CDC belongs to the entire society, and it is not the profiting tool for any centralized organization.

Therefore, CDC established CDC Foundation in Singapore, with the main tasks for operating the CDC network in an open, fair, transparent and not profit oriented manner, and providing support for the development team of CDC. CDC Foundation shall be approved by Accounting & Corporate Regulatory Authority (ACRA), and under the administration of the Company Law of Singapore, and independently managed and operated by the Board of Directors or Management Committee consisting of persons qualified as trustees, independent of the government. Singapore is famed for its steady and sound law and financial environment, and CDC Foundation, as a non-profit entity established in Singapore, shall be a legally established organization to support and participate in public or private activities, and not seek any business interest, according to the laws of Singapore. The "profit" obtained by the Foundation shall be called surplus, and shall be kept as the cost for other activities, but not distributed among its members. CDC shall establish the root services and the content review committee regarding the laws in each country, to ensure the contents comply with the local laws and regulations and culture. With compliance to the laws and regulations, the cultural styles shall be defined by the traffic center according to the respective culture, and reviewed by the ethics and culture review committee.

7.2 Governance structure and voting

The Foundation has built the following 3 architecture layers, to facilitate the CDC Foundation reasonably use the funds and resources in an open, fair and transparent manner, continuously promote the rapid development of CDC, expand the CDC application scenarios, and attract more institutions, companies and organization to the CDC ecosystem:

Decision-making committee

The decision-making committee is responsible for management and decision of important matters, including appointment and removal of the executive principals and principals of the centers, and making the important decisions. The tenure of any member of the decision-making committee is 3 years, and can be re-elected consecutively. The Committee shall have a chairman, with the actual matters to be determined. The members of the first decision-making committee shall be elected

by the founding team CDC and investors through negotiation. The Committee shall establish the Ecosystem Center and the Technology R&D Center.

Ecosystem Operation Center

The Center is responsible for improving the close connection of CDC and the game industry, community operation, building the ecosystem, and further realizing the business operation, to realize the artificial intelligence, cross-border transaction, interconnection and intercommunication and value sharing.

Technology R&D Center

The Center is responsible for development, testing, launching, review, etc. of underlying technologies, provide SDKs in the common language in the market, and provide the technical support for all platforms and appropriate open source codes.

CEO

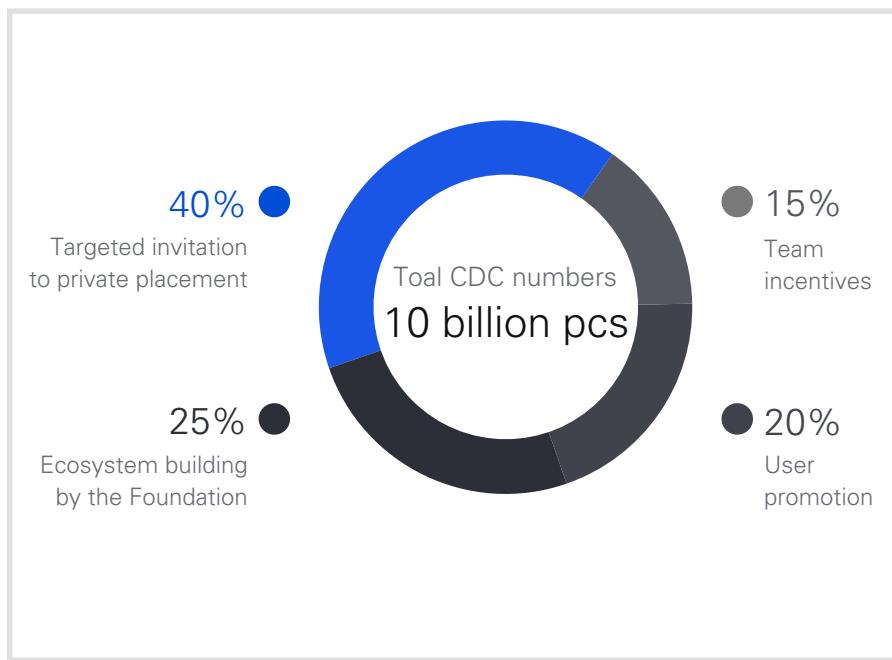
CEO is elected with voting by the decision-making committee, and responsible to the decision-making committee. CEO shall comprehensively organize and implement the decisions and requirements of the decision-making committee, control the daily operation of CDC, achieve the targets required by the Committee and report the implementation results to the Committee regularly. CEO has the right to establish the necessary functional departments, recruit managing staff, and coordinate the technical R&D, product design and production, ecosystem operation, market promotion, and finance, to form an organization and management system with CEO as the center.

8. Rules for exchange

(1) The total amount of CDC ("Total amount") is 10 billion tokens, distributed with the following methods:

1. 40% for targeted invitation to private placement, totally 4 billion tokens, for not more than 100 institutions in areas other than Chinese mainland, US and Korea. The Foundation shall use the funds obtained for ecosystem incubation, market promotion, business development, regulatory affairs, etc., to achieve the rapid formation of the community and the entire eco environment, and the subsequent sound and consistent development.
2. 25% for ecosystem construction by the Foundation, totally 2.5 billion tokens, used for construction of the global ecosystem infrastructures, to promote the entry of other digital contents.
3. 20% of user promotion, totally 2 billion tokens, used for CDC Foundation to adopt the community cooperation for building the infrastructures in the world, and incubate traffic partners, to speed up liquidity of CDC in the world market.
4. 15% for incentives of the founding and development teams, totally 1.5 billion tokens, used as the incentives to the founding team for the substantial work in project design, resource allotment, incubation of early stage business environment, etc., and investment in labors, intelligence and materials in formation of the

ecosystem environment. Therefore, in its token distribution plan, the Foundation reserves 15% as the incentives for the teams. Such CDCs shall be unlocked by year, i.e. 3.75% for Year 1, 2, 3 and 4 respectively.



(2) Important

The system shall collect 1‰ from any transaction in the CDC system as the "recharge fee", to avoid trashy transaction, which shall be destructed in the fixed account, and not allowed for transaction. When the transaction frequency is higher than expected, the "recharge" ratio shall be adjusted, to ensure the normal operation of the system, but such portion shall be permanently destructed, to avoid the second time circulation and black box operation.

(3) Selling method:

2 tokens are acceptable for the CDC exchange, i.e. ETH/Qtum.
Price for targeted invitation: 1ETH=65000CDC, 1QTUM=2000CDC

(4) Release mechanism:

30% to be unlocked for the first batch, and the balance to be unlocked 5% by week subsequently in 14 weeks.

(5) Transfer of distribution

CDC shall be released in 1 month after distribution (maximum), or after completing the exchange for the soonest. Before distribution, CDC may provide one time of opportunity to exit from the project, with the actual time schedule shown in the detailed rules.

9. Team members

Chairman of the Foundation



Mikako Hara

Chief Global Officer

TEAMZ Inc. Executive Vice President

Chief Operation Officer



Inaki Olano Eraso

Chairman of the foundation

CEO (Desingune) Production & Consultancy

Chief Advisor



Li Mingyuan

Former senior vice president of Baide

Standing adviser



Yang Ning

Renowned angel investor, founder of LeBox Capital



Li Zhu

Inno Angel Fund founding partner
The president of the Chinese youth Angel Association

Chief Secretary, Advisor Board



He Chang

Founder of Huangtaiji

Chief advisor for Jap



Dong Lu

Japanese gourmet
Japan Foodie founder

Industrial technical adviser



Shuai Chu

Founder of Otum,
the largest block
chain public chain
ecosystem except
BitCoin and ETH



Cui Ciaobo

Graduated from Nankai University, served as
director of BEA Asia-Pacific Telecom
Technical Center, and technical director of
Oracle Greater China A&C



Shen Taolei
Founder & CEO of
Radarwin Tech,
director of China
Block Chain
Application Research
Center



Zhang Hua

Investor of several digital
asset transaction
platforms, initiating
member of IDEL
International Digital
Economy Federation

Application Industrial adviser



Wang Huimin
Founder of
Xiaonanguo brand



Huang Gend
Owner of
Huangjihuang 3-
sauce stew pot



Feng Hao
Founder and
Chairman of Kuaidao



Wang Ning
Founder of
POPMART



will jiang
Co-founder of 360 Finance, renowned investor, block chain expert, strategic, financial and investment expert



Li Yan
Famous media group marketing expert, Founder of Wemedia



Fang Gang
Former senior vice president of Sohu
President of Xianlaohu



Zhan Jinyuan
Chairman of Uncle's Friend

Investors



Li Zhu
Inno Angel Fund founding partner
The president of the Chinese youth Angel Association



Feng Hao
Founder and Chairman of Kuaidao



Yang Ning
Renowned angel investor, founder of LeBox Capital



Zhang Yan
Honorary advisor of Xi'an Film Studio, founder and president of GZS Wutong Targeted Private Placement Fund, founder of Taiyue Wutong Game Industry Fund and Taiyue Wutong Education Industry Fund

Investment Institutions



10. Risk alert

Policy risk

Currently, there are no definite policies for regulating the block chain projects and exchange financing in China, so the possible loss may be caused to participants due to the policies. For the market risks, if the overall value of the digital asset market is overvalued, the investment risk will rise, and the participant may have the excessively high expectation of the exchange project, but such high expectation may not be realized.

Regulatory risk

The transactions for digital assets including CDC are exposed to extremely high uncertainty, and it lacks of the strong regulation in such transactions now, so there are the risks of sharp rise and fall of electronic tokens, manipulation by market makers, etc., and the individual participants, without experience after entry to the market, may not tolerate the impact and stress caused from the unstable market. Some experts, official media, etc. provide the advice on participation with caution, but there are no formal regulatory measures and provisions, so such risks cannot be effectively avoided.

Undeniably, regulatory provisions shall be issued in the foreseeable future to control and regulate the block chain and electronic token market. With such control from the regulatory body on the market, the tokens bought during exchange may be impacted, including but not limited to fluctuation of the price or restriction on salability.

Team risk

There are numerous teams and projects in the block chain technology market, with very fierce competition, causing the high pressure for market competition and project operation. Whether the CDC project can stand out among so many excellent projects and be widely accepted is dependent on the capability of the team, vision, planning, etc., and also the condition of the competitors and even the oligarchs in the market, and, there is the possibility of vicious competition. With the social networking of the founders in the industry for years, CDC has brought together a team of energetic and competent members, and attracted the senior professionals, experienced technical development staff, etc. in the block chain field. The stability and cohesion of the team are critical to the overall development of CDC. In the future development, there is inevitably the possibility of severance of any core staff or conflict in the team, causing the negative impact on CDC.

Coordination risk

The founding team of CDC shall use all efforts to achieve the development target set forth in the White Paper, and expand the growth space of the project. Now the CDC team has had the matured business operation, however, considering the unforeseeable elements in the development tendency of the industry, the existing business models and the coordination concepts may not fully fit the market

requirements, leading to difficulty in obtaining the satisfactory profit. The White Paper is subject to change with the updating of the details of the project, and the subsequent development of the project may be affected, when the participant fails to timely access to the details after updating, the public is not aware of the latest progress of the project, or the project is not fully understood by the participant or the public due to information asymmetry.

Technical risk

Firstly, the project is established based on encryption algorithms, and the quick development in cryptology will bring potential risks of cracking encryption; secondly, currently the decentralization of block chain, tamper-resistant and other technologies support the development of the core services, and the CDC team cannot guarantee the implementation of such technologies; and thirdly, bugs may be discovered during updating and adjustment of the project, and such bugs can be fixed with issuance of patches, however, we cannot guarantee the For the safety, a small extent of impact caused from the bugs.

Safety risk

Single participant has the low amount, but there are so many participants, posing the higher requirements for the safety of the project. The electronic token is characteristically of anonymity, difficulty in tracing, etc., so it is prone to the use by criminals, hacker attack, or illegal asset transfer and other criminal offences. Other risks currently unknown: some unforeseeable risk facing CDC, with the continuous development of the block chain technologies and the overall industry. The participant shall be fully aware of the background of the team, and the overall framework and concept of the project, before making the decision, reasonably adjust the own vision and rationally participate in the token exchange.

Disclaimer

The document is only intended for communication of information, and the contents are for reference only, not constituting any recommendation, solicitation or offer of CDC and/or its related companies for investment and/or sales/purchase of stocks or securities. Any such offer must be made with the confidential memorandum, complying with the relevant laws on securities and other laws. Nothing in the document shall be construed as forcing anyone to participate in exchange. Any act related to the White Paper shall not be deemed as participation in the exchange, including but not limited to asking for the copy of the White Paper or sharing it with others. Participating in exchange shall mean the participant has reached the required age, and has the full civil capacity, and the contract signed with CDC is true and valid. All the participants signed the contract voluntarily, and have obtained the clear and necessary understanding of CDC before execution of the contract. The CDC team shall continuously make reasonable attempts, to ensure the information of the document is true and accurate. The Platform may undergo updating during development, including but not limited to the platform mechanism, the token and its mechanism, distribution of the tokens, etc. Part of the contents may be adjusted in the new version of the White Paper, with the progress of the

project, and the team shall publish the updated contents via the notice or new version of the White Paper on the website, etc. The participant should timely obtain the latest version of the White Paper timely, and timely adjust the decision based on the updated contents. CDC hereby clearly declares it shall not be held liable for any loss of the participant caused from his/her: (i) Any act caused from the document herein. The team will use all efforts to achieve the target set forth in the document, however, due to any force majeure event, the team may not fully meet the commitments.

CDC is the important tool for playing the function of the platform, and it is not an investment product. Holding CDC does not represent granting the owner with the ownership, or right for control or decision making of the CDC platform. As a digital encrypted current, CDC does not fall under any of the following categories: (a) Any kind of currencies; (b) Securities; (c) Equity of legal entity; or (d) Stock, bond, bill, stock warrant, certificate or any document granting any right.

The appreciation of CDC is subject to the market law and the demand after launch of the application, and it may also have no value, so in no means shall the team make any commitment for its appreciation, nor be liable for any consequence caused from its depreciation. To the highest extent permitted by law, the team shall not be held liable for any damage or risk caused from exchange, including but not limited to direct or indirect personal damage, loss of business profit, loss of business information or any other economic loss. CDC Platform shall comply with any regulatory provision, self disciplinary statement of the industry, etc., helpful for the sound development of the exchange industry. The participant participating in the project shall mean he/she fully accepts and complies with such examination.

The participant must provide the complete and accurate information for completing such examination. CDC Platform has clearly informed the participants with the possible risks, and his/her participating in the exchange shall mean he/she has acknowledged understanding and accepting the explanations in the detailed rules and the potential risks, and shall be responsible for all the consequences by him/herself.

11. Contact information

Official website: <http://cdcf.io>

Email: CDCfoundation@gmail.com