



chaindap

**Whitepaper**

<https://www.chaindap.com>

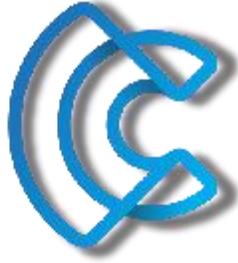
<https://www.chaindapsocialmining.club>

<https://twitter.com/Chaindap1>



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## **Abstract**

The game has totally changed now. Long gone are the days when coins and tokens are only used as a store of value or an instrument of financial speculation. Although the aforementioned are still relevant in the crypto-space, the concept of cryptocurrency utility by using blockchain the technology behind it is far more beneficial to the world, plus it helps to drive mass adoption.

Blockchain technology can be used to create solutions in almost every industry today be it finance, health, gaming, government, elections etc. Blockchain fosters transparency and decentralization where there is no central control and manipulation.



## The Chaindap Solution

Blockchain technology is ever evolving and the potentials it carries are frankly limitless. Blockchain goes beyond the linking of data blocks in to an immutable chain. Its technology is applicable to a completely distributed and decentralized system that requires all participating users (peers) to follow set down Blockchain rules to achieve complete and successful synchronization. There is a seamless array of its usefulness, following Melanie swan's book Blockchain, Blockchain technology is sub divided into three applications; Blockchain 1.0 is currency, Blockchain 2.0 includes contracts (stocks, financial assets and bonds) and Blockchain 3.0 involves applications beyond pure financial areas like governance and health (Dapps).

Dapps is a decentralized application that runs on a distributed computing system. These type of application has been popularized mostly by distributed ledger companies namely Ethereum Blockchain.

We believe Blockchain serves the role of a shared database within a decentralized application ecosystem. It stores application data and makes sure that the data additions, transformations and updates are authorized and consistent with the applications rules. Think of it like a smart contract; for this reason, Chaindap is designed to serve optimally the role of a shared database in the best ways possible.

Chaindap is a general purpose platform which is suitable for almost every kind of decentralized app (dapps). It is created to accommodate applications which require high capacity applications that involves the management of complex data sets.

## An overview of already existing platforms

Many application prototypes were created, but developers faced the following issues and using these and a guide, we have come up with the perfect platform:

### **Limited capacity:**

Because network capacity is limited and usage fees are equivalent to the load, transaction typically fees cost about \$1 or more for complicated application. This cost on each application makes running most applications are generally too expensive and impractical to run.

### **Poor data modelling tools and poor support for queries:**

Application developers have to resort back to central indexing and caching layers or they'll have to employ the services which do not guarantee up to the same security as the base layer.

Error prone contract language which created enough loop holes which resulted in many high profile heist.

No provision for contract upgrades at the platform level, this functionality has to be implemented as a separate layer which creates further complexities.

There's general poor and slow user experiences.

Applications designed with a large audience in mind needs to be built in a flexible and responsive manner. They require a platform which empowers the developer to allocate resources in a way that suits every user.

We believe that to tackle these problems, we will use an Ethereum based network with the needs of a decentralized application in mind.

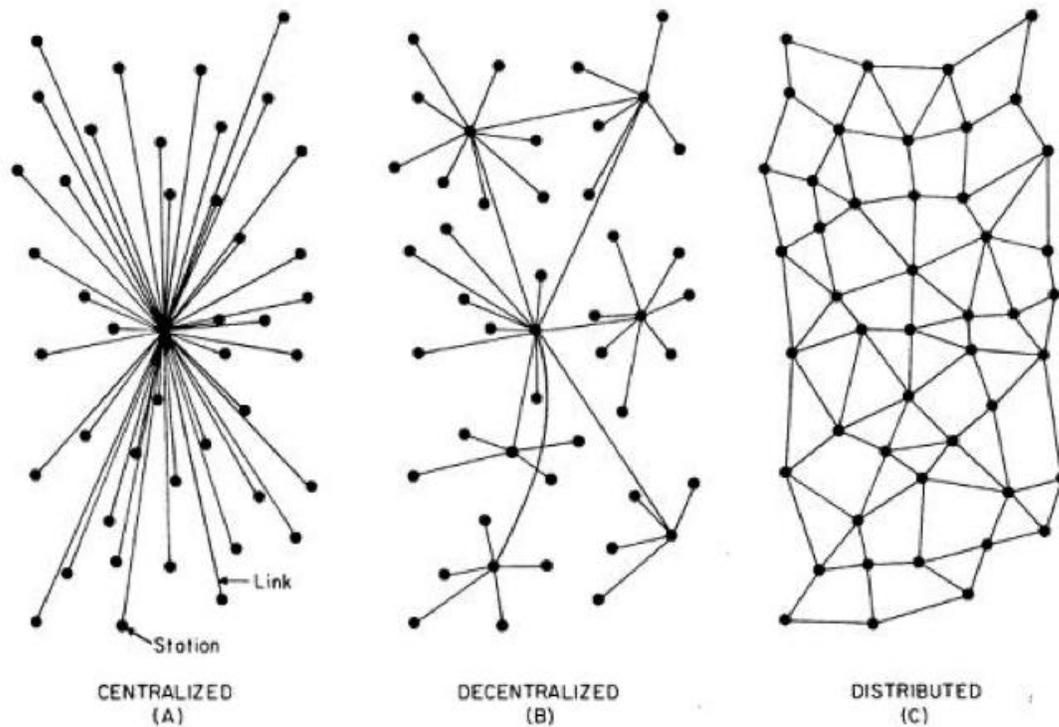
## **Decentralized applications**

We assume that the reader of this document is already familiar with the concept of a decentralized application. But for some who don't, it makes sense to clarify what exactly we're referring to and how it connects intimately to the goal of our platform.

By the term Decentralized application, we mean a multi-user application which is provided and hosted in a decentralized way. This means that no single entity has complete control of the functionality of the application. Bitcoin paved way with its cryptographically stored ledger, scarce asset model, and peer to peer technology. These features laid the bed rock to building a new type of software called decentralized applications or dapps. They are characterized by being more flexible, distributed, transparent and their incentivized structure is better than current software models.

Blockchain technology has been adopted in many industries. Sourced from the state of dapps website, we have seen that Ethereum has hosted different classes of dapps including exchange, finance, health, identity media etc. however, many of these dapps are partially decentralized. Centralized apps are currently the most popular type of software however, it isn't really assuring to have a single entity control the operation of individual units and control the flow of information.

Every user of a centralized software is directly dependent on the central entity to send and receive data. Popular apps like amazon, Google and many other mainstream servers use this type of technology.



The above diagram shows the different types of software applications.

The term “decentralized” means that computation has been stretched across multiple nodes as an alternative to using just one. Every node is independent of the other nodes. The concept of dapps is still new so smart developers have different opinions on what exactly dapps is. Some believe that not having a central point of failure it takes to be considered dapps while others feel there’s a need for other features.

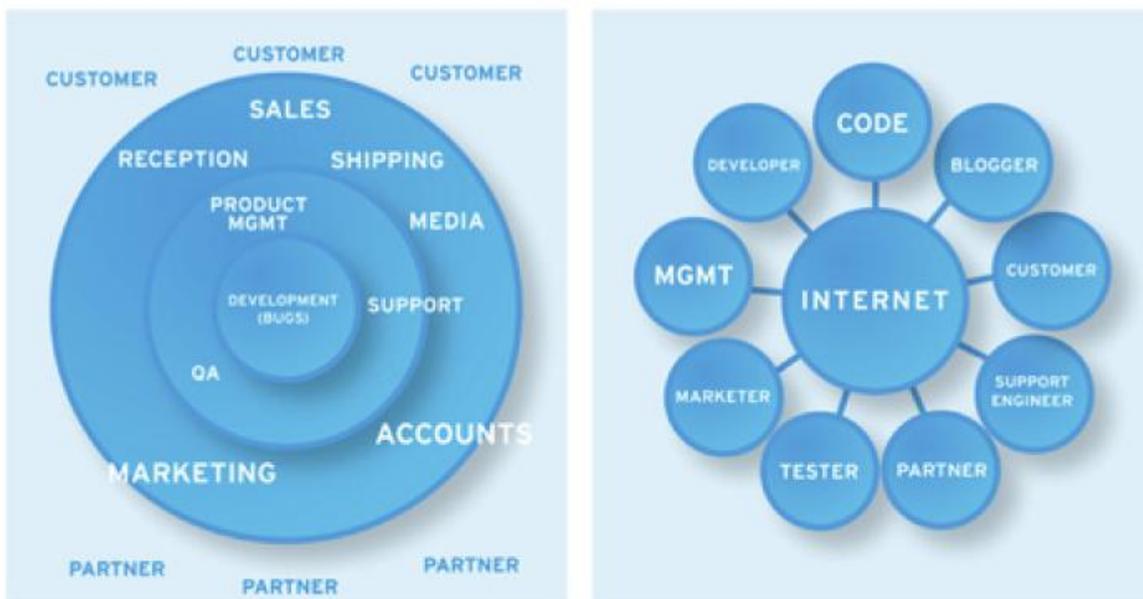
Having a central controlling entity of applications means that the entity can:

- Shut down the application anytime.
- Be biased with the category of users receive particular services.
- Monetizing and extorting users by violating their privacy.
- Removing valued functionalities.

## Open sourced and closed source dapps:

Decentralized apps come in both closed source and open sourced. Closed source applications require users to have complete trust that the app is as decentralized as the main creator says it is. And that they don't have access to their data through central source. Close source applications raise red flags to the users and can serve as a stumbling block to its acceptance. It's not totally uncommon to see closed sourced decentralised apps but from its creation, it's going to be an uphill battle because most users prefer open source. Open sourced dApps changes the business practise structure so that the internet is a common denominator instead of a chain of closed silos.

## Closed Source vs. Open Source



Open source and peer-peer software's addressed the centralized control issue for certain categories of app, such as office software and file sharing but certain software's which rely on a service hosted database can be much more challenging. Bitcoin was the first cryptocurrency to achieve this, it created a secure decentralized shared database of financial transactions and it enabled payment applications outside of the control of centralized entities.

However, after Bitcoin's database, other databases came up with a more advanced decentralized database which makes it possible to decentralize even more applications and with the qualities to create completely new kinds of applications which were previously inconceivable.

### **Open source and closed source:**

Decentralized applications have the following admirable qualities:

- It's not controlled by a single entity
- It is ideally controlled by the community of users.
- It cannot be shut down
- Service cannot be denied to any user
- Dapps applications are fully transparent, every user can see what is going on.
- Users have complete privacy; users have complete control over their data
- It is highly available.

## The Role Of Chaindap

Chaindap aims to be a hub for creation of decentralized applications for real life uses. Our combination of a decentralized database and code, which is compatible with mobile or browser apps typically construct the entire decentralized application.

### How does Chaindap enable dapps features?

#### **Not controlled by a single entity:**

After creating Chaindap, dapps developers would make both front end and back end code open source (these codes are the parts which will run in Chaindap). This will allow the app to be used and developed without necessarily involving the original developer.

The data which belongs to the app will be hosted by Chaindap. This is done in two phases:

1. The Chaindap root system consists of a diverse pool of nodes which run application Blockchains, manage our token conversation, allocate node compensation, and other core functionalities.
2. Each dapp will select some similarly diverse set of nodes to manage its data.

Both of these tiers are decentralized crypto-economic systems, thus we can say that the applications aren't controlled by a single entity. Users will typically pay for the resources needed for hosting the application.

#### **Cannot be shut down:**

As we have mentioned above, Chaindap enables decentralized application hosting which ensures that no single entity can shut down an application. As the creator of the app, you still have the right to shut down the app but only by legal action. In the first few years, Chaindap's root structure will be dominated by a few companies which have to comply with the law. This ensures that founding

partners get the very best treatment and services making sure that they will be adequately satisfied. Thus, an application might not have to be removed from Chaindap.

Notwithstanding, we should keep in mind that applications fundamentally belongs to its user. Chaindap is a public hosting platform which is completely open sourced. If any user disagrees with the application government's decision to shut down the application, they have the right to simply move their data elsewhere.

**Transparent:**

Applications hosted will be completely transparent. Application data will be hosted on multiple nodes and Blockchains consensus makes it immutable as soon as it is finalized. We believe that any application that wishes to be hosted by us will already have transparency as one of its features. Chaindap serves as a neutral service provider and it doesn't enforce the decentralization.

**General better performance:**

Transactional delays have been one of the major concerns of Bitcoin users. It takes an average time of 10 minutes for its nodes to mine a block and its confirmation time is about an hour. Ethereum on the other hand reduces response latency to around 15 seconds. Longer delays frustrate dapps users and makes using dapps less competitive. For example, a Blockchain based social network website will expect the system to respond to his/her comment, like or share action to appear or become implemented within seconds.

Modern based networks like social media, massive online multiplayer games, online shopping malls etc. require a well-equipped data base to handle the type of user traffic they generate on a daily basis. Therefore, the dapps platform is needed because it has the capability to handle a lot of concurrent traffic.

**Privacy:** Decentralized applications data is typically public which makes the concept of privacy a slippery slope. For example, users may use pseudonymous identities, crypto graphics like hashing and so on.

We believe that these approaches are better than the traditional believe which is based on the trust and security of the application providers. For decentralized apps, once the providers' security is breached, the privacy of all its users is 100% compromised. With our design, data is already public so it can't be compromised. Chaindap plans to offer privacy enhancing features (in the use of Dapps) in the future.

There has also been recent works to add the anonymity options for cases like ICO's where funds are raised through smart contracts where regulatory bodies require to know your customers checks without giving the identity of the contributors.

### **Enabling offline transactions**

Currently, many Blockchain transactions require internet connections to be able to verify and process funds quickly. However, if at any point, a subset device is disconnected from the internet and exchange signed transactions with each other, there is no guarantee that double spending hasn't occurred if another device remains online with the same key pair as an offline device has the ability to simultaneously spend. A dapps could be designed in such a way that it can accept offline transactions which are signed for payments for goods.

### **Low transaction fees:**

Low transaction fee is one of the best features of tokens and Blockchain technology. Ethereum's transaction fee is also a way of preventing spams or malicious executions of smart contracts. However, these fees become a barrier for transactions with miniature monetary value. In current Blockchain ecosystems, dapps developers are finding it difficult to deal with the high transaction fees associated with the deployment and execution of their smart contracts.

## **Platform structure**

It is based on an Ethereum network.

**Uses:** Blockchain technology has proven to be very useful and it can be easily adopted into many areas or industries. Chaindap, is focused on creating a decentralized application with real life applicable uses in business, games and social media.



## **Social Mining 1.0**

Chaindap is in the forefront of this new concept of social mining. What is social mining? Well, social mining 1.0 as we like to call it is the process where people(miners) earn free Chaindap tokens(CDTN)everytime they post articles, youtube videos, gifs, stickers etc on our social mining platform and get paid every 15<sup>th</sup> and 30<sup>th</sup> of every month. Miners can also earn free CDTN from commenting and downloading attachments.This is a very exciting innovation.

With our social mining platform we will create :

- An interactive community which is the back bone of every successful crypto project.
- A deflationary system other than burning that will encourage miners to hold CDTN long term which will in turn help price action of CDTN go upwards.
- A strong buy-in of the project by miners/holders.
- A ready made organic self-marketing system that continually promotes the Chaindap project and the native CDTN token.
- An opportunity for our users to mine more tokens without the need to buy them. This unique ecosystem makes it possible for talented and creative users to make useful contributions to the community which in turn facilitates community growth.

15%(10.5 million CDTN) of the total supply of our tokens has been set aside for social mining. CDTN total supply is just 70 million. This is a substantial amount and every investor has the opportunity to mine and acquire a bit of these tokens.



## **Blockwire App**

Our flagship product is the Blockwire multi-chain wallet. This is going to be the first of its kind in the crypto space. It is a truly disruptive app because it will accommodate storage of tokens or coins across various top 5 chains. Other interesting features of the Blockwire App include:

1. Staking
2. Airdrop Service
3. Exchange
4. Point Of Sale
5. Lending



## Token Info & Economics

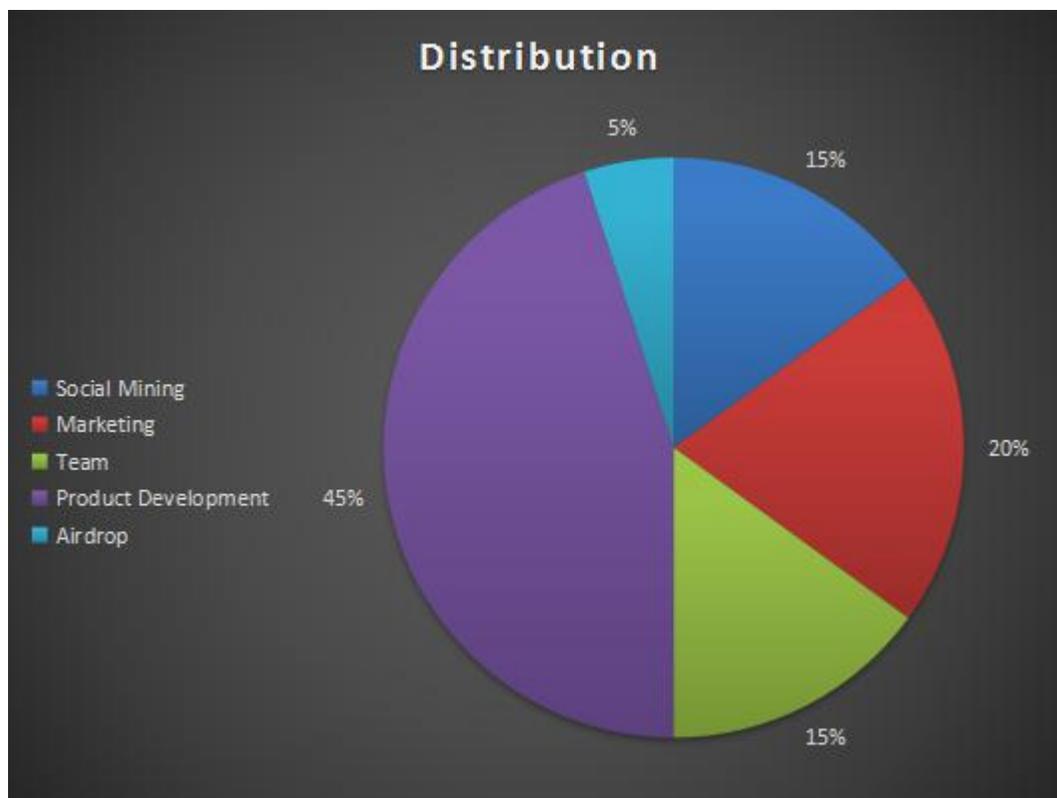
Chaindap is an Ethereum based project. You can search her out on [etherscan.io](https://etherscan.io)

**Project Name:** Chaindap

**Symbol:** CDTN

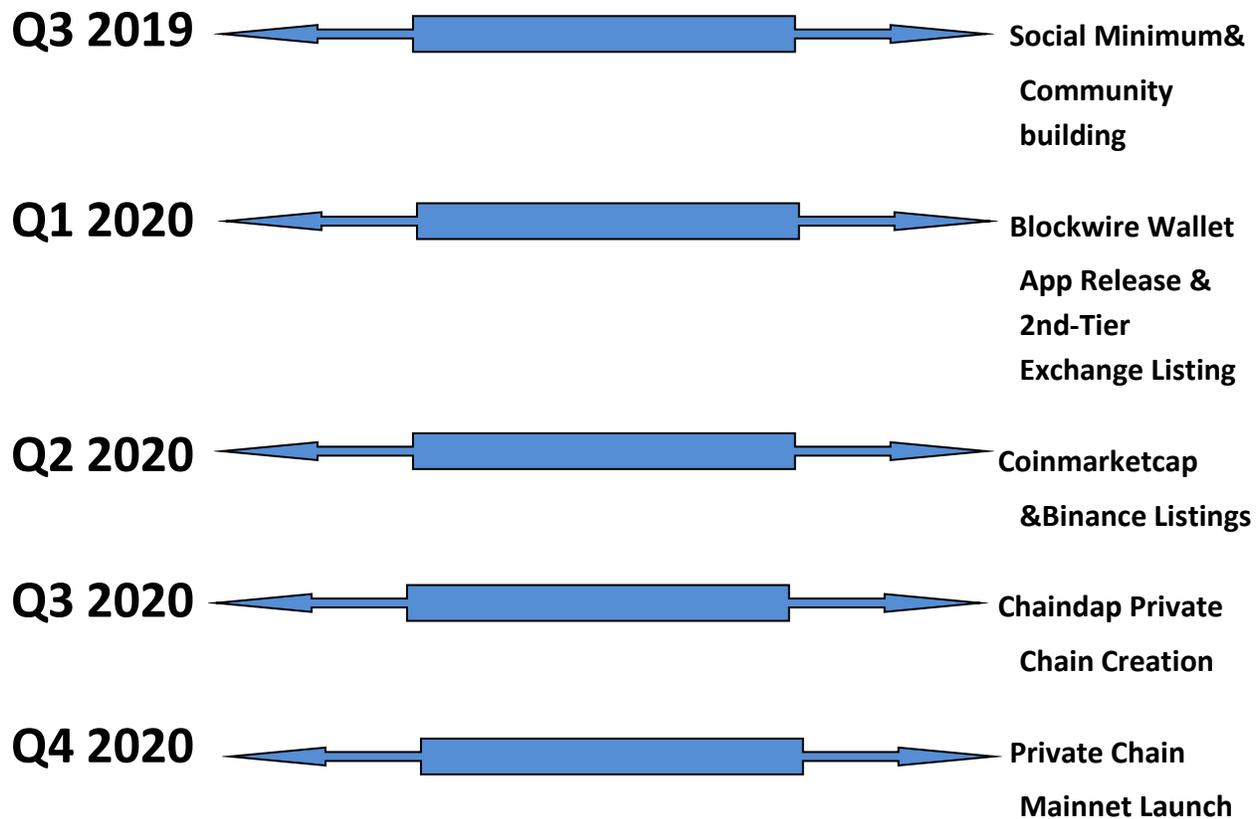
**Contract:** 0x50db64a0a10ac7abc5b12728369838d8091632af

**Total Supply:** 70,000,000





## Roadmap





## The Core Team



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**THE END**

