WHITEPAPER

Discussion Footprints

Challenges which motivates Bind Network to build a new era of crypto ecosystem:

Traditional Financial Market Challenges:

Traditional financial markets are facing challenges on an unprecedented scale. Most are overly regulated and too complicated to adapt to new technologies quickly enough. Furthermore, existing giants have no incentive to adopt new and - in their eyes - unproven technologies. To them the potential gain appears marginal at best, while the level of uncertainty and the investments required are substantial.

The result? More cost effective and efficient ways to deliver everyday services to every corner of the world are slow to arrive, if they arrive at all.

What's most striking, and regrettable, is that nowhere in this decision making process are the needs of users considered. Traditional financial market players prioritise only their own potential risks and gains.

Financial Markets:

The traditional chain of financial service providers consists of a high number of intermediaries. Every middleman has its own cost structures, which means they each charge commissions in return for providing the services required.

These corporations have been using the same operating principles for years. There are two reasons for this. On the one hand, the scale and scope of these operations means they are not easily changed. On the other hand, maintaining the same traditional business models is convenient for these players. Well-established financial corporations use their market dominance to ensure their expensive and ineffective operations continue unchallenged. And it's usually their customers who pick up the tab.

Two major problems arise due to this lack of change:

- Firstly, important services become expensive for customers, for some user groups prohibitively so.

- Secondly, a limited number of players dominate because it is very complicated for any new business to enter the market and become an equal player in the ecosystem.

Combined, these two problems create a sort of lock-down in the sector. The offerings brought by the traditional finance and banking industry fail to serve the needs of a significant part of the population. However, new entrants who could meet these needs by challenging the status 10 quo are unable to easily enter the market with new product offerings because the intermediaries involved are highly interlinked.

So where has this lock-down brought us to? An example that highlights the inefficiency and expense it causes is international bank wire transfers. Using ordinary banking systems this kind of procedure is slow and complicated. What's more, the cost can easily exceed 10% of the amount being transferred, especially with small sums.

It's a service that brings few, if any, benefits and a lot frustration. But for many customers, this is the only option available. But an alternative is possible.

With cryptocurrencies and other blockchain based products the story is completely different. Critically important is the fact that there are usually no middlemen between the two parties making the transaction, just the blockchain itself. This fact brings two major benefits:

- It takes seconds to perform the transaction, and this time is not affected by how far apart the parties are.

- The cost of the transaction is reduced to just a fraction of a percent of the amount being transferred.

Blockchain based transfers benefit both private users and businesses. For the former, it makes it possible to transfer small amounts at a low cost. For the latter, they can rely on blockchain to execute substantial wire transfers to clients or partners in a fast, reliable manner that is also highly cost effective.

But there's a problem. At present, cryptocurrencies function fairly well as an asset, but remain virtually impossible to use as a means of payment in everyday life: users have to manually sell their crypto assets on an

exchange, then transfer the resulting amount in traditional currency to their bank account. Only when this transfer is completed can they use these funds to make purchases.

Can traditional financial players provide the fast, efficient, affordable financial services businesses and individuals need? The answer is no. They can simplify their front end operations, but the machinery behind it still causes problems because of the way it is structured. For example, someone making an international transfer is still charged even if the transaction isn't cleared. To make matters worse, it will probably take a long time for them to become aware that the transaction has been declined, an additional headache for both businesses and individuals.

Let's be clear. Traditional banking has been with us for thousands of years, and has done a decent job of stimulating economic growth. But now it is lagging behind. Emerging technologies are already there and ready to be adopted, but by failing to do so these companies are both depriving their customers of the gains these new technologies bring and making themselves vulnerable to competition from new entrants. And these new players don't depend on a long chain of intermediaries to offer their products to the market.

Blockchain might just be the technology that will change how we perceive financial and banking services; completely new ways of adding value to customers will emerge.

Effectively managing assets and providing safety in times of economic decline is vital for any financial service provider. For hundreds of years these providers relied on precious metals, mostly gold, to preserve the value of assets during economic downturns. It is still widely believed that gold can withstand and hedge the risks caused by economic uncertainty and political upheaval.

The major advantage cryptocurrencies have that no other asset class has ever had is decentralisation.

Yet there is a risk inherent in physical asset classes like gold. In times of unrest, these asset classes can break down because they are still attached to physical locations like land or bank vaults.

By contrast, cryptocurrencies benefit from being decentralised - they are free from any physical location. There are no known ways to stop blockchain based currencies from distributing information updates, whatever the political circumstances. This means assets are kept safe around the world, around the clock.

Bitcoin and other cryptocurrencies are gaining increased interest from investors as their immense potential becomes clear. On the one hand, they provide the hedge investors need. On the other hand, they're currently

also a great short-term trading resource because of the volatility in price. This makes them high-risk, short-term investments with high-yield potential, something every trader is looking for. And they have the capability to hedge traditional financial derivatives. This unique combination is what makes cryptocurrencies a true phenomenon.

Limited Global Availability:

One of the clearest limitations of the traditional financial system is its inability to offer accessible, reliable and affordable services to people around the world. Almost 3 billion people lack access to banks or similar institutions.

With very complex operations and cost structures burdened by overheads, traditional financial service providers put a hefty price tag on inclusion in the global economy. And the result? The poorest in our societies remain poor. Using the current methods employed by traditional banks there is simply no way to include them in the global financial system.

But a potential solution to this problem is now available, and it's connected to the fact that almost half the world now has access to the internet. This is important because access to the internet means access to blockchain based financial services, with their much lower costs and much greater efficiency.

Blockchain technology is based on information distribution through the web. This enables financial data to be transferred at a tiny fraction of the cost incurred by traditional banks. Using Bitcoin then, or any other blockchain based currency, as a means of payment has incredible potential in less developed countries.

In the short term, Bind Network's strategy is aimed at increasing the adoption of cryptocurrencies by utilizing existing payment infrastructure as a stepping stone.

This will initially limit our ability to penetrate the huge potential market that currently lacks access to traditional banking. However, our long term goal remains to overcome this restriction and open up the field of global financial and payment services to the next billion potential customers. This will be possible when the adoption of cryptocurrencies gains the critical mass required for a native crypto-payment industry to become both useful and economically viable.

Challenges prevailing on cryptocurrency exchanges

In less than 10 years, blockchain has developed rapidly. New cryptocurrencies have been formed and the basic features of the whole infrastructure developed. There is no doubt this market has evolved substantially in a very short period of time. Nevertheless, significant technical, legal and political obstacles remain which need addressing, with the later two especially important. What's more, because a great number of modern cryptocurrency exchanges were created by enthusiasts, only a small number of them have the level of technological maturity necessary for keeping assets safe.

There are also major hurdles in abstracting the complexity of blockchain and cryptocurrency technologies and making them accessible for everyday users.

A final issue is that there are very few convenient integrated products on the market. These products are critical as they can become single points of access to the market for someone wanting to enter the world of cryptocurrencies.

Insufficient Compliance

The main issue most countries have with cryptocurrencies is their inability to control them.

Despite their enormous potential, lawmakers and regulators are cautious when it comes to cryptocurrencies. One reason is that they are commonly used as a way to generate and transfer large sums in the 'grey zone' of the internet, thus avoiding taxation. So, to avoid complicated legal issues, authorities are refusing to support cryptocurrencies.

The knock on effect of this is to make investors cautious of entering this market because of concerns over client due diligence, anti-money laundering legislation and other issues connected with the pseudonymous nature of cryptocurrencies.

Isolation from traditional banking:

Another key issue is that cryptocurrency exchanges are only beginning to discover the best practice needed to keep their trading infrastructure secure from potential malicious activities. As a result, in many exchanges a high degree of technical security breaches are still possible, as well as a lack of legal protection of the assets involved. This is one of the main reasons why ordinary financial institutions are avoiding blockchain based markets.

So what are the results? Due to the reasons mentioned above, traditional banking institutions don't accept cryptocurrencies as an asset class, which means they remain unable to provide vital financial services to half of the world's population.

Trading fees

The effect of the current impasse is that sizeable fees remain applicable to both parties in cryptocurrency exchange markets. This makes trading costly when it reaches a certain threshold.

At Bind Network, we believe that a blockchain based, well automated exchange should have low costs and be affordable to all.

Once developed, the whole infrastructure is always there. Of course, updates and new functions are vital, but the most important factor is the ability to provide a complete set of services. This means the cost of these individual functions needs to remain low.

Issues with cryptocurrency wallets at present

Safety of asset:

One of the most important issues facing the market is being able to create convenient cryptocurrency wallets which are able to keep assets safe.

Cryptocurrency exchanges hold large amounts of assets, which is both a cause for celebration and for concern. These assets need to be secured from hackers, and the more assets there are the tougher this becomes. Unfortunately, major breaches on popular exchanges resulting in huge losses are all too common.

Liquidity challenges with cryptocurrencies

Limited availability of fiat currencies:

Any exchange can offer USD to Bitcoin conversion. Some are also able to convert to GBD and EUR. However, the number of people living in countries where these three currencies are used barely reaches 1.5 billion.

Introducing Bind Crypto Ecosystem

Bind Network is one of the most innovative, creative and forward thinking crypto eco system on the market.

We remain firmly committed to our primary measure of moving the boundaries of what is perceived as possible in the world of crypto ecosystem.

With the era of crypto revolution bind network motivates towards binding all crypto aspects like creating, maintaining and exchanging cryptos in a simple and secure way.

Bind Network is introducing 2 major pillars of crypto ecosystem to the world.

A. BinMAPP
B. BinDEX

We are getting ready to serve our first innovation Bind MAPP across the globe.

BinMAPP is the lightest mobile Application to enable smoothest crypto wallet experience for the user. Use BinMAPP to transfer and receive cryptocurrency in a single click, anywhere any time.

Our next commitment to the world is BinDEX, Most Secure and lightning fast cryptocurrency exchange platform.BinDEX is the gateway to exchange Bind Network Tokens with all other popular tokens apart from ethereum and Bitcoin.

BinDEX is a true DAPP, it is trusless and decentralized, providing best privacy across the globe.

Investor does not always like to keep the asset in a centralized company. BinDEX will solve the problem by providing super fast transnational order book.BinDEX is committed to provide maximum token availability to this mundane world. Our commitment is to binding trust and security to the crypto revolution.

Bind Network is an innovative cryptocurrency trading and exchanging platform with crypto wallet support via pushing the limits in the future of blockchain. Bind pursues to deliver excellent exchange services with easy access for all trading and exchanging activities. The Cryptocurrency market today comprises a multi-billion-dollar industry. Though at the present state, it is yet to be accepted by the masses as a tool for everyday exchange. With that, we aim to accelerate the widespread acceptance of cryptocurrency. We will took on the approach to educate the public by providing insights on digital currency for the beginners in digital currency trading.
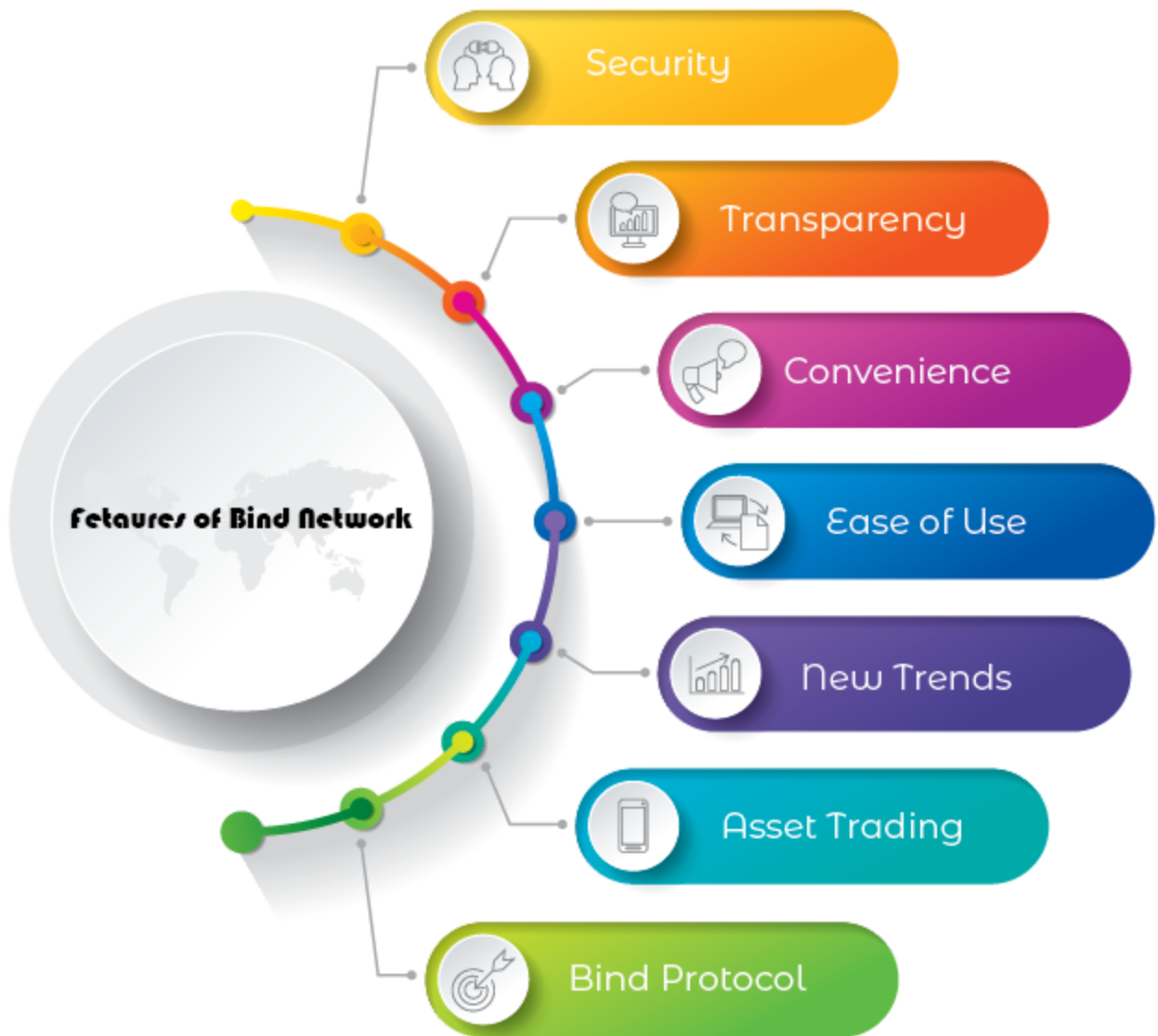
Major pillars of crypto ecosystem

BinMAPP

First innovation
BinMAPP across the globe

BinDEX

Gateway to exchange
Bind Tokens

Fetaures of Bind Network

- Security
- Transparency
- Convenience
- Ease of Use
- New Trends
- Asset Trading
- Bind Protocol

Demystifying Bind Crypto Ecosystem:

Security:

Bind Network is committed towards providing highly secure system. Decentralization and Cryptographic Security is the key to our solutions.

Transparency:

Bind Network will achieve the transparency by providing information, starting from token generation event to product development updates, we are transparent to our esteemed users across the globe.

Smart Management:

Bind Network team is dedicated and always available (24/7) to serve the esteemed family members of the network. We treat the user as core family members to support them as per their convenience. Agile working culture is the key here.

Convenience:

Bind Network provides most user friendly crypto ecosystem across the world. Hiding the complexity of Blockchain technology with one click solution is the prime of the system. Dedicated support staff are our strength and motivation.

Ease of Use:

It is our vision that newcomers to the digital economy will be able to get started with trading their first Crypto instantly through our simple, supportive platform. Professional traders will enjoy a fast, secure, and highly flexible environment that integrates familiar features into our digital asset ecosystem.

Fast Incorporation of New Trends:

Living in a fast evolving world, we stay ahead of future trends and provide services that will be in high demand for the future of currencies. Bringing the best services to our clients is one of the key goals in Bind. To ensure a stable progress of our business development, we have a solid team always working to achieve the next level of blockchain technologies. With the intense pace of technology evolving, we are always in the look-out for new trends and technology involving the blockchain.

Simplified Asset Holding & Asset Trading:

Platforms attempting to link portfolio managers with investors have very limited functionality, or the opposite, too many unnecessary elements, which complicate asset trading and investing. Some solutions might be unrealizable in the face of developing technologies, or legal limitations. BinDEX & BinMAPP pair will solve the above mentioned problem by providing fast Secure crypto trade platform.

Bind-HT protocol:

Bind Network Token is the gateway to avail exciting facility of Bind crypto ecosystem. Bind Network is introducing a new protocol called Bind-HT which will enable the Bind Network Token holders of BinMAPP application to trade in a significant profit on trading volume.

The protocol is :

If you create and trade Bind Network Tokens from BinMAPP application and trade Bind Network Tokens on BinDEX then the internal HT algorithm will airdrop some percentage of Bind Network Tokens back to BinMAPP wallet.

a. Create Bind Network Token crypto asset on BinMAPP
b. Send Bind Network Tokens to BinDEX
c. Hold for some days or trade with other crypto
d. Receive some percentage of holding or trading to BinMAPP token asset as an airdrop.

Bind-FT protocol:

Bind-FT aka 'Bind fair trade' introduces ' new era revenue generation for Bind Network Token holders.
Protocol depicts that:

a. Transfer Bind Network Tokens to BinDEX from BinMAPP
b. Trade less than 50% of tokens with other crypto.
c. Hold other 50% for 28 days
d. Purchase equivalent or greater than Bind Network Tokens as mentioned in point b
e. Hold that amount for 30 days.
f. Enjoy 25% of Bind Network Token airdrop to your BinMAPP asset of Bind Network Token.

FEATURES OF BIND CRYPTO ECOSYSTEM

SECURITY

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- Enjoy 25% of Bind Token airdrop to your BinMAPP asset of Bind token.

Introducing Multi Currency Mobile Wallet - BinMAPP:

a. BinMAPP is the lightest mobile Application to enable smoothest crypto wallet experience for the user.

b. Use BinMAPP to transfer and receive cryptocurrency in a single click, anywhere any time.

c. BinMAPP is the first step to provide fastest transactional experience by incorporating high optimized algorithm using best data structure.

d. BinMAPP will never store user's private key and other security information.

e. BinMAPP will operate closely with other Bind Motivation - BinDEX

Features of BinMAPP

Maximum Crypto Support

Portability

Decentralized

Code Optimization

Bind Protocol Support

BinMAPP - 'Simply Secure':

Maximum Crypto Support:

BinMAPP is a simple and innovative decentralized cryptocurrency wallet to hold all your crypto asset in a single place. BinMAPP will support maximum tokens and coins to provide one stop solution.

Portability:

Being a mobile based crypto wallet, BinMAPP will support smooth transactional experience to send and receive crypto assets anywhere, anytime. Mobile based agility is the key factor for BinMAPP.

Decentralized:

BinMAPP is a fully decentralized mobile based multi crypto wallet. BinMAPP will not store any private key or other security information in the backend. Private key will be encrypted via password.

Code Optimization:

BinMAPP will operate on highly optimized code to provide lighting fast transactional experience on minimal to 0 latency time. Optimized coding technique is the main key to all products of Bind Network.

Bind protocol support:

BinMAPP will operate closely with BinDEX to execute FT and HT protocol to enable Bind Network Token holders a good profit margin.

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Introducing Most Secure and Lightning Fast Decentralized Exchange - BinDEX:

a. BinDEX is the most secure and lightning fast decentralized cryptocurrency exchange operating on optimized algorithm to provide smoothest experience with maximum coin support across the world.

b. BinDEX is the gateway to exchange Bind Network Tokens with all other popular tokens apart from ethereum
and Bitcoin.

c. BinDEX is aiming to list maximum coins and tokens to provide one stop gateway for all your crypto asset.

d. BinDEX is a true DAPP, it is trusless and decentralized, providing best privacy across the globe.

Features of
BinDEX

A Innovative Approach

01 Latest Technology

04 Ease Of Use

D Friendly Design

B Optimized Code

02 Dynamic Programming

05 Bind-FT & Bind-HT

E Bind Protocol Support

C Trading Pair

03 Token-Token Trade

06 Sell & Buy matching

F Dual Signature Verification
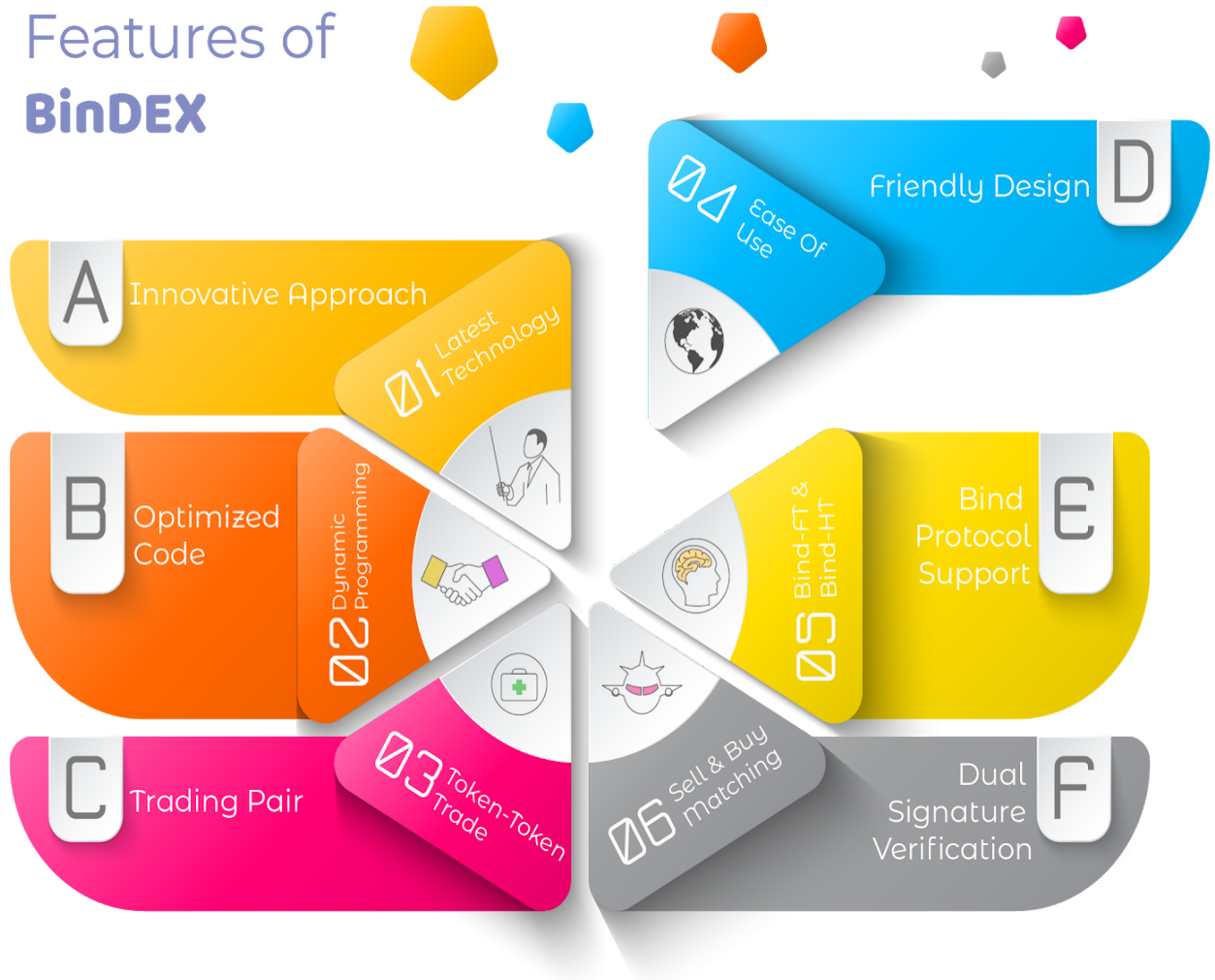
BinDEX - 'Disruptive & Super Techy' :

Innovative Approach:

BinDEX is a simple and innovative decentralized cryptocurrency exchange and functions as a safe and efficient trading platform for various cryptocurrencies. Our aim with BinDEX is to implement the latest advancements.

Blockchain technology and latest secure software tools are prime. Offering a superior user experience backed by an additional layer of security, thus making transactions easier and faster. BinDEX is ideal and reliable for both beginners and advanced users to help them to optimize their investment and trading strategies.

Optimized Code:

Quick search and efficient exchange trading platform is achievable via optimized algorithm of programming languages. Many well known problems can be solved via using optimized procedure and correct design pattern.

BinDEX will run on optimized dynamic programming pattern to improve the time complexity of trading, order book, transaction speed and search mechanism. Optimized space and time complexity with secure design pattern is the pioneer to this solution strategy. Improving transaction latency time is the motto of BinDEX.

Trading Pair:

BinDEX is unique and innovative to provide excellent trading pair between popular tokens and coins. Apart from very common Token-ETH and Token-BTC pair, we will provide trading pair between Token-Token for popular tokens.

BND will be first token via which you can trade with other popular token pair apart from BTC and ETH. Unique Token-Token pair will disrupt the conventional concept of exchanging tokens with BTC and ETH. BinDEX is committed to provide best token trading by providing Token to Token exchange facility.

Beginner Friendly Design:

BinDEX would have an intuitive UI aimed at offering beginner friendly features for searching and trading. Advanced trading tools like candlestick charts for various time periods, crosshairs would also be simple and uncluttered.

Features such as Stop Price, Limit Price, Amount Order will further contribute to profit trading for users. A super simple user trading guide will make trading easy even for the beginner or newbie of crypto ecosystem. User friendly guide for new release will help user to trade in a secure way.

Bind Protocol Support:

BinDEX will operate closely with BinMAPP to execute FT and HT protocol to enable Bind Network Token holders a good profit margin.

Total Confidentiality:

BinDEX does not have access to user funds transferred to the smart contract, only the user can manage these funds.
Users are able to enter secret keys into the interface of the exchange, but BinDEX will never store or transfer these keys on its server, thereby ensuring security of the user's data and finances.

Dual Signature Verification:

Signed purchase and sale data are first sent to the server where these signatures are compared and verified, only then is the transaction confirmed. Double-signature verification ensures superior security, high

performance, and complete control over transactions.

Infographic:

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BIND NETWORK

Business Model :

The income structure is based on the different parts of the platform we offer. Below are the main modules of the Bind Network platform, followed by the business model itself:

BinMAPP Revenue:

Downloadable Profit:
Initially BinMAPP will be a free application to be downloadable from play store (Android) and APP store (ios). Once it gains considerable popularity , BinMAPP will fetch revenue from downloaded price and other admob kind of facility.

Bind Network Token Asset:
Bind Network will implement a facility to pay using Bind Network Tokens to use the mobile application. More download will fetch more revenue towards the system. It will also increase the popularity and demand for Bind Network Tokens which will eventually increase the token value on exchanges.

Popular Bind Protocols:
The popular Bind-HT and Bind-FT protocol and its dependency on BinMAPP will eventually attract users to download the app.

BinDEX Revenue:

Trading Pair Profit:
BinDEX will be gateway to trade multiple cryptocurrency and Bind Network Token. One unique feature of BinDEX is to support token-token trading facility.
Initially Bind Network Token can be traded with other popular ERC20 or ERC223 standard tokens

Including Ethereum and Bitcoin. Gradually the popular tokens on Bind crypto ecosystem will implement token pair trading. It will increase the demand of Bind Network Tokens along with the BinDEX usage rate.

Transaction Fee:

BinDEX will offer lowest to ZERO fee transactional experience. With 0 % submission fee BinDEX will be pioneer in Decentralized exchange market.

Submission fee: 0%

Withdrawal fee: 0.20% to max 0.50% depending on the transactional amount.

The limited higher amount commision makes BinDEX eventually a zero fee decentralized platform.

Token Listing :

BinDEX will take very nominal amount very nominal listing fee for general listers.

Bind stakeholders of category 'Gold' will enjoy free listing of their token on proper proof submission via BinMAPP.

Gold category determines some percentage of total Bind Network Tokens holding via BinMAPP wallet. Percentage value depends on market trend and total discretion of Bind cryptosystem support.

Popular Bind protocols:

The popular Bind-HT and Bind-FT protocol and its dependency on BinDEX will eventually attract users to download the app.

Bind-HT Protocol

Downloadable Profit

Token Listing

Bind Token Asset,

Bind Revenue Model

Transaction Fee

Bind-FT Protocols,

Trading Pair Profit

Maximum Crypto Support

Customer Base:

Potential Bind Network customer is everyone who currently owns or wishes to own blockchain based assets and wants to effectively utilize them as means of payment outside of the cryptocurrency ecosystem.

While the total number of cryptocurrency users around the globe is difficult to assess with reasonable accuracy, at the time of writing this figure is estimated to exceed 16 million and is likely to grow substantially in the future.

Also a potential Bind Network customer is everyone who currently is banking with old-fashioned high street banks but wishes to have a fee-free banking environment, easy to use and always with you.

Bind Network - Technical flavor (Optimization prime):

Bind Network introduces optimized dynamic programming pattern to improve the time complexity of trading, order book, transaction speed and search mechanism. Optimized space and time complexity with secure design pattern is the pioneer to this solution strategy.

In terms of mathematical optimization, dynamic programming usually refers to simplifying a decision by breaking it down into a sequence of decision steps over time. This is done by defining a sequence of value functions $V_1, V_2, ..., V_n$, with an argument y representing the state of the system at times i from 1 to n. The definition of $V_n(y)$ is the value obtained in state y at the last time n. The values V_i at earlier times i = n −1, n − 2, ..., 2, 1 can be found by working backwards, using a recursive relationship called the Bellman equation. For i = 2, ..., n, V_{i-1} at any state y is calculated from V_i by maximizing a simple function (usually the sum) of the gain from a decision at time i − 1 and the function V_i at the new state of the system if this decision is made. Since V_i has already been calculated for the needed states, the above operation yields V_{i-1} for those states. Finally, V_1 at the initial state of the system is the value of the optimal solution. The optimal values of the decision variables can be recovered, one by one, by tracking back the calculations already performed. [wiki of D.P.]

Pattern Matching:

Many a time in case of Exchange and wallet we need to search some pattern of words.
For example:

Given a pattern P (of length n) and a string S (of length m), how would you check whether the string matches the pattern? For instance:

If P = "ETH" and S = "USER1" then S matches P.

If P = "BTC" and S = "USER2" then S does not match P.

"**Brute force solution** :

which is being used now a days by old school exchanges and wallet system

M(i,j) = True iff pattern P[i:n] matches S[j:m]

We then need M(0,0).

Note here that the substring notation is P[i:n]=PiPi+1...Pn. "

It always provide high time complexity which actually delays in the orderbook and very slow transaction.

But Bind Network implements very efficient dynamic programming method to make the system lightning fast.

Exact String matching algorithms

- Boyer-Moree
- KMP
- Aho Corasick etc.

Approximate String Matching Algorithm

Approximate String matching is applied in text searching, pattern recognition For a text T[1..n] and pattern P[1...m], we are supposed to find all the occurrences of pattern in the text whose edit distance to the pattern is at most K. The edit distance between two strings is defined as minimum number of character insertion, deletion and replacements needed to make them equal.

Approximate string matching problem is solved with the help of dynamic programming.

These algorithms will take optimum complexity like O(m),O(n+m) (in case of KMP for example).

The chart below depicts how efficient algorithm of O(1), O(log n) and O(n) will execute the functions with

lightning speed without the high latency time.

Complexity	10	20	50	100	1 000	10 000	100 000
$O(1)$	< 1 s	< 1 s	< 1 s	< 1 s	< 1 s	< 1 s	< 1 s
$O(\log(n))$	< 1 s	< 1 s	< 1 s	< 1 s	< 1 s	< 1 s	< 1 s
$O(n)$	< 1 s	< 1 s	< 1 s	< 1 s	< 1 s	< 1 s	< 1 s
$O(n*\log(n))$	< 1 s	< 1 s	< 1 s	< 1 s	< 1 s	< 1 s	< 1 s
$O(n^2)$	< 1 s	< 1 s	< 1 s	< 1 s	< 1 s	2 s	3-4 min
$O(n^3)$	< 1 s	< 1 s	< 1 s	< 1 s	20 s	5 hours	231 days
$O(2^n)$	< 1 s	< 1 s	260 days	hangs	hangs	hangs	hangs
$O(n!)$	< 1 s	hangs	hangs	hangs	hangs	hangs	hangs
$O(n^n)$	3-4 min	hangs	hangs	hangs	hangs	hangs	hangs

Bind Validators:

Address and transactional signature check validator program for multiple currency is another feature of Bind Network.

For example:

Below java code will determine the ethereum address entered is correct or not with determination of personal and contract address.

Source Code:

```
Class bind.bindex.chekerutil.ethereum.address;
import java.math.BigInteger;
```

```java
import org.bouncycastle.jcajce.provider.digest.SHA3;
import org.bouncycastle.util.encoders.Hex;

public class Ethereum {

    /* input : Address

      * Output: true or false

      * purpose: to validate an Ethereum Address

      * Procedure :

      * If the string begins with 0x and contain numbers between 0 to 9 and a to f

      * then it is valid ethereum address

     */

    public static boolean isValidAddress(String addr)  {

        String regex = "^0x[0-9a-f]{40}$";

        //Print for testing purpose and more verbose output

        System.out.println("Incoming Address " + addr);

        if(addr.matches(regex)) {

                return true;

        }

        return false;

    }

    /* input : Address

      * Output: true or false

      * purpose: to validate a checksum an Ethereum Address

      * Actual Checksum Procedure :

      * If the ith digit of the Address is a letter (ie. it's one of abcdef) print it in uppercase
```

```java
     * if the ith bit of the hash of the address (in binary form) is 1

     * otherwise print it in lowercase

     * Ref URL: https://github.com/ethereum/EIPs/issues/55

 */

public static boolean isChecksumAddress(String addr)

{

        //Print for testing purpose and more verbose output

        System.out.println("Incoming Address " + addr);

        // First we need to check the address has the value between 0-9a-fA-F

        String regex = "^0x[0-9a-fA-F]{40}$";

        if(!addr.matches(regex)){

            return false;

        }

        //to fetch the part after 0x

        String subAddr = addr.substring(2);

        //Make it to original lower case address

        String subAddrLower = subAddr.toLowerCase();

            //Print for testing purpose and more verbose output

        System.out.println("Fetched Original Address " + subAddrLower);

        // if the previous step validates then we will test the checksum part

        // Create a SHA3256 hash (Keccak-256)

         SHA3.DigestSHA3 digestSHA3 = new SHA3.Digest256();

        digestSHA3.update(subAddrLower.getBytes());

        String digestMessage = Hex.toHexString(digestSHA3.digest());
```

```java
        //Print for testing purpose and more verbose output

        System.out.println("Hex String " + digestMessage);


        /* Check each letter is upper case or not

        * if it is upper case then the corresponding binary position of the hashed address

        * should be 1 i.e the message digest letter should be getter than 7

        * as 7 is the last Hex digit which starts with 0 in binary

        * rest of all 8 to f starts with 1

        */


        for(short i=0 ;i < subAddr.length();i++)

        {

                if(subAddr.charAt(i)>=65 && subAddr.charAt(i)<=91)

                {

                System.out.println("Position Upper " + (subAddr.charAt(i)) );

            System.out.println("Position digest " + (digestMessage.charAt(i)));

                        String ss = Character.toString(digestMessage.charAt(i));

                        if(!(Integer.parseInt(ss,16) > 7 )) {

                                return false;

                        }

                }

        }

        return true;

    }
```

```java
    public static void main (String[] args) throws java.lang.Exception {

        /*

         * Created one test Checksum address and checking it

         * web3.toChecksumAddress('0x65601db7431427e32ce2d60e6a373bc7a7f68eb4')

         * '0x65601DB7431427E32Ce2d60e6a373bc7A7F68EB4'

        */

        String input = "0x65601DB7431427E32Ce2d60e6a373bc7A7F68EB4";

        //Normal Address

        //String input = "0x0a99e4c3ecdfcaeb5281cfe8d81cbdefa93ff555";

        //CheckSum Address

        //String input = "0x0a99e4c3ecdfcaeb5281cfe8d81cbdefa93fG555";

        if(Ethereum.isValidAddress(input)) {

                System.out.println("Valid Ethereum Address");

        }

        else if(Ethereum.isChecksumAddress(input)) {

                System.out.println("Valid Checksummed Ethereum Address");

        }

        Else {

                System.out.println("Not A Valid Ethereum Address");

        } } }
```

High Functional Matching Engine:

Supports Direct Market Access (DMA), Central Limit Order Book (CLOB), Request for Quote (RFQ), Implied orders functionality for futures market, fast price-time priority and pro-rata Orders matching algorithm, advanced conditional orders like OCO (One-Cancels-the-Others), Brackets, icebergs orders and more. Advanced risk control system.

Enterprise Level Security

OWASP top 10 compliant, EU GDPR compliant, extended validation SSL, certificate, 3-FA, multi-firewall protection.

High availability with Low latency

Servers across multiple regions with active geo replication for low latency, geo targeted load balancing and 24x7 server monitoring for high availability. FIX 4.2/4.4 protocol for HFTs.

Gateways

Endpoints supporting connections to trading interfaces, APIs, and related user-directed systems. Load balancers maintain throughput performance regardless of user count.

Risk Management

Risk is managed via a robust Risk Management System that implements a wide range of limits and controls on order entry, execution, and settlement.

Managing Platforms With DNS Failover

Provides DDOS resilience and fast failover in case of server outage failover time greater than 180 seconds (depending on DNS TTL).

Utilizing Content Delivery Networks

 Border Gateway Protocol (BGP)routing to make sure that the data is close to the user, and quickly accessible.

Automated Process

 Swapping of cryptocurrencies from hot wallet to a multisignature cold storage.

Contingency Planning

To ensure that if a breach were to happen, that only a minority of funds could be accessed.

VPC Architecture

Create a safe environment for admins, email encryption for password interchange.

Machine Learning

IBM Watson analytics to AI based process like Natural Language classifier, Natural Language Understanding, Alchemy Analysis will contribute to deeper insight to boost the project

Token Economy:

Token Type	ERC20 standard
Token Symbol	BND
Token Name	Bind Network
Token Decimal	18
Total Supply	149 million (fixed)

Token Distribution

Pre ICO & ICO Sale: 60%

Team & Partners: 20%

Promotions & Operations: 12%

Reserve for future: 8%

Fund Distribution

System Development: 60%

Market Stability: 10%

Product Marketing: 20%

Reserve: 10%

System Development Contributes Product Funding

BinMAPP: 40%

BinDEX: 60%

Status Quo Bind Network

The Bind Network team consists of talented developers, designers, lawyers, marketing experts as well as visionary masterminds.

At the moment Bind Network has finished the first process of building a core team to take the first steps into creating an BinMAPP followed by BinDEX to fundamentally change the crypto ecosystem of the 21st century forever.

BinDEX

BinMAPP

.

Legal disclaimer

Purpose

The purpose of this White Paper is to present Bind Network and the BND token to potential token holders in connection with the proposed ICO. The information set forth below may not be exhaustive and does not imply any elements of a contractual relationship. Its sole purpose is to provide relevant and reasonable information to potential token holders in order for them to determine whether to undertake a thorough analysis of the company with the intent of acquiring BND Tokens. Nothing in this White Paper shall be deemed to constitute a prospectus of any sort or a solicitation for investment, nor does it in any way pertain to an offering or a solicitation of an offer to buy any securities in any jurisdiction.

This document is not composed in accordance with, and is not subject to, laws or regulations of any jurisdiction, which are designed to protect investors. The product token is not a digital currency, security, commodity, or any other kind of financial instrument and has not been registered under the Securities Act, the securities laws of any state of the United States or the securities laws of any other country, including the securities laws of any jurisdiction in which a potential token holder is a resident.

This English language White Paper is the primary official source of information about Bind Network and BND Tokens. The information contained herein may from time to time be translated into other languages or used in the course of written or verbal communications with existing and prospective customers, partners etc. In the course of such translation or communication some of the information contained herein may be lost, corrupted, or misrepresented. The accuracy of such alternative communications cannot be guaranteed. In the event of any conflicts or inconsistencies between such translations and communications and this official English language White Paper, the provisions of this English language original document shall prevail.

Participation in ICO Token Sale Event:

Singapore , China and United States citizen are not permitted to participate on the ICO token sale of Bind Network. If they purchase or holds the token illegal way, then the tokens will be locked and subsequent legal measure will be taken.

No offer of securities

BND tokens cannot be used for any purposes other than as provided in this White Paper, including but not limited to, any investment, speculative or other financial purposes. BND Tokens confer no other rights in any form, including but not limited to any ownership, distribution (including, but not limited to, profit), redemption, liquidation, property (including all forms of intellectual property), or other financial or legal rights, other than those specifically set forth below. BND tokens confer no rights in the company and do not represent participation in the company. BND tokens are sold as a functional utility.

According to the professional opinion of our legal advisors, based on the Howey Test our Bind Network tokens (BND) should not be deemed as securities and do not need to be registered as a securities. BND tokens are not securities.

The user acknowledges, understands, and agrees that Bind Network tokens are not securities and are not registered with any government entity as a security, and shall not be considered as such. The User acknowledges, understands, and agrees that ownership of Bind Network BND token does not grant the User the right to receive profits, income, or other payments or returns arising from the acquisition, holding, management or disposal of, the exercise of, the redemption of, or the expiry of, any right, interest, title or benefit in the Bind Network or Bind Network platform or any other Bind Network property, whole or in part. BND tokens are not official or legally binding investments of any kind.

Risks and uncertainties

The Bind Network platform is not yet developed and is subject to further changes, updates, and adjustments prior to its launch. Such changes may result in unexpected and unforeseen effects on its projected appeal to users, possibly due to the failure to meet users' preconceived expectations based on this White Paper, and hence, impact its success. For the foregoing or any other reason, the development of the Bind Network platform and launch of Bind Network future business lines may not be completed and there is no assurance that it will be launched at all.

Additionally, in a down-cycle economic environment, Bind Network may experience the negative effects of a slowdown in trading and usage of the Bind Network platform and may delay or cancel altogether the structuring and launch of the anticipated Bind Network future business lines.

Further, should the costs, financial or otherwise, of complying with any newly implemented regulations exceed a certain threshold, bearing in mind the fact that it is difficult to predict how or whether governments or regulatory authorities may implement any changes to laws and regulations affecting future business lines, maintaining the Bind Network platform and structuring and launching Bind Network future business lines may no longer be commercially viable, and the Company may opt to discontinue the development and operation of Bind Network platform.

We may not be able to pay any anticipated rewards in the future. There is no assurance that there will be sufficient engagement in the Bind Network platform and that you will receive any rewards/discounts. The ability of the Company to pay any reward to you will depend on the future results of operations and the future business and financial condition of the Company.

In the case of unforeseen circumstances, the objectives stated in this document may be changed.

Despite the fact that we intend to reach all goals described in this document, all parties involved in the purchase of BND tokens do so at their own risk.

The funds raised in the ICO are exposed to risks of theft. The Company will make every effort to ensure that the funds will be securely held in blockchain wallets. Notwithstanding such security measures, there is no assurance that there will be no theft of the cryptocurrencies as a result of hacks, sophisticated cyber-attacks, distributed denials of service or errors, in the smart contract(s) on the Ethereum or any other blockchain, or otherwise. In such event, even if the ICO is completed, the Company may not be able to receive the cryptocurrencies raised and Bind Network Ltd. may not be able to use such funds for the development of the Bind Network platform. In such case, the launch of the Bind Network platform might be temporarily or permanently curtailed.

No Cancellation and No Refund

All BND token orders are deemed firm and final. The Client acknowledges that they are fully aware that they will not be entitled to claim any full or partial reimbursement under any circumstances whatsoever. As the sale of

the proposed tokens is strictly reserved for experienced professional clientele, the Client may not claim any right of return against Bind Network.

No guarantee on trading

The Company will use reasonable endeavors to seek the approval for availability of the BND tokens for trading on a cryptocurrency exchange. Furthermore, even if such approval is granted by a cryptocurrency exchange, there is no assurance that an active or liquid trading market for the BND tokens will develop, or if developed, will be sustained after the BND Tokens have been made available for trading on such cryptocurrency exchange.

The Company is not responsible for, nor does it pursue, the circulation and trading of BND Tokens on the market. Trading of BND tokens will merely depend on the consensus on its value between the relevant market participants.

Note on forward-looking statements

All claims and statements made in this Bind Network white paper, Bind Network website, press releases made by Bind Network, also any oral statements made by Bind Network team members of agents acting on behalf of Bind Network that are not an accomplished fact may represent so called forward-looking statements.

Some of these forward-looking statements may be considered such by containing the following terms: "will", "anticipate", "plan", "aim", "target", "expect", "estimate", " envision", "intend", "project", "may", "believe", "if", or any other such terms. Further, the terms listed above are not necessary to identify a forward-looking statement. All statements that include, but are not limited to any financial projections, estimates, plans or possible trends, risks, as well as future prospects of cryptocurrencies should be considered as forward-looking statements as well.

These forward-looking statements are not yet accomplished facts and Bind Network does not take responsibility and cannot guarantee that the future results will correspond with above mentioned forward-looking statements.

These forward-looking statements are also provided as-is and Bind Network takes no responsibility for updating these forward-looking statements, should any information relevant to the pertaining forward-looking statements become available in the future.

No information contained in this white paper should be considered as a promise, representation of commitment or undertaking as to the future performance of the Bind Network platform, BND token or any other component of the Bind Network ecosystem.