# **Trianetwork Whitepaper**

# The next generation of decentralized exchanges and DeFi

Support@trianetwork.com

# **Trianetwork LLC**

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#### 1.Abstract

As the Trianetwork company, decentralization and quality service is our primary goal and vision. In this paper, we solve a lot of the issues of decentralized exchanges. As Parachain in the Polkadot ecosystem, we offer our important mission of interoperability with all blockchains and an important product such as Triadex in the safest way for our users to trade per to per over the dot eco-system and Triadex. Trianetwork, which is a quality alternative where you can use your digital assets faster and cheaper than other decentralized exchanges, has many advantages over its competitors.

#### 2. Introduction

The concept of Blockchain and Cryptocurrency, which entered our lives with Bitcoin in 2009, has revealed many innovations one after another. Blockchain, known as the biggest technological revolution after the Internet, has come to the fore at an incredible speed and makes its effectiveness feel better every day. Emerging as a P2P payment tool, Bitcoin now constitutes a significant part of the investment portfolio of even the largest companies. Immediately after that, the Ethereum Blockchain and cryptocurrency, which was implemented by Vitalik Buterin, has greatly expanded the perspective. Although cryptocurrencies were previously known only as a means of payment, they quickly evolved into a valuable asset class. All quality cryptocurrencies that can provide a solution to any problem have developed rapidly. Some offered great convenience to people in terms of security, some in terms of speed, some in terms of cost. Then they became a part of our whole lives and now they have found a place in banking systems. Many cryptocurrency exchanges have been opened and they have offered many cryptocurrency-related services to their users. However, there were some problems. While Blockchain offers a decentralized world, Central organizations have brought some problems. Decentralized Exchanges were built for important situations such as sharing personal information, especially security. A vision that trusts technology, not human beings, trusts software, has been brought to the use of people and adopted significantly. Uniswap is known as the first of these. As Trianetwork, we established our decentralized exchange in order to take this vision further. We offer users a cheaper and better quality platform by solving existing problems with any other Decentralized Exchanges.

Traditional centralized token exchange (CEX) is criticized for its security and privacy issues since cryptocurrency users are required to surrender their private keys to the exchange. In contrast, decentralized token exchange (DEX) solves this issue by introducing an additional trading gas fee and latency to the system.

### 3. Triadex

Triadex is an open-source fully supported and fast Crypto-exchange platform. Users can trade TRIA and Erc20 tokens through Triadex. User Interface is easy to use and the integration in our other products makes it more convenient for users! By the Blockchain-network logic, your funds are secured on your own wallet, not your keys, not your coins. Triadex is a full-blown Exchange platform hosted on the Ethereum-network. We provide a secure, integrated, and 24/7 domain up support for the Triadex platform. Triadex decentralizes the exchange and creates a fair trading environment for every individual. Triadex proposed system aims to bring down the transaction costs and reduce the time taken to settle orders and eliminate the need for third parties for executing trades. Three different contracts one for the buyer, seller, and exchange are used to separate stock exchange functionality and optimize the transaction costs. The Triadex system is implemented using Ethereum. Triadex transaction fees for the miner at 10.5 Gwei is 90.98% lesser than the brokerage fees of traditional traders for the same transactions. Experimental results of the proposed method show that it is possible to eliminate third-party brokerages, reduce transaction fees to almost 0, and create a peer-to-peer trading environment that does not require a central exchange.

#### 4. Triadex Features

### **Order Book**

An order book is a list of orders that presents and shows different offers from buyers and sellers. It is so important in terms of users while trading. Order books list the number of shares being bid on or asked at each price point. One of the biggest problems in exchanges is manipulation and the order book prevents this problem to a great extent or at least keeps it in the eyes of the users. Therefore, an order book is available in Triandex for users to trade comfortably.

# Stop-Loss

It is a function that must be learned and applied by almost every user who is trading. As the name suggests, it is used to minimize the loss. Especially new cryptocurrencies are very volatile assets, so it is very important to take every precaution. Any major news flow, or significant development in the market, could affect the market in an unusually high way, resulting in losses for investors. The stop-loss allows the system to automatically sell an asset if its price falls below a certain value.

### Swap

Swap on Triadex is also a feature of the dex with a better interface and automatically price slippage.

#### **Pools**

Liquidity pools are asset pools locked in a smart contract. They are especially used by decentralized exchanges such as Triadex to facilitate trading by providing liquidity and to provide users with a Market Maker service. Liquidity is crucial for most DeFi protocols because they need to provide a seamless service to their customers. After a new pool is created, the first liquidity provider determines the starting price of the assets in that pool.

# Staking

Staking is that the user supports the network by locking the tokens he holds for a certain period of time, and in return, earns extra income at a specified rate. Investors can evaluate the tokens they want to hold for a long time with staking. All users who meet the necessary conditions can benefit from all the advantages specified by using the staking function on Triadex.

# **Deposit**

In order to trade on decentralized exchanges such as Triadex, users must first connect their Wallet to the App. After this transaction takes place, he/she can perform the Deposit of any token for the trade he/she wants to make.

### Withdraw

After completing the trades users want to make, you can withdraw to their wallet keep their tokens there. No need to keep users' funds in the Triadex.

#### **Lower Fees**

A very small amount of deductions are made from each transaction to support the network and for liquidity providers. These deductions are transaction fees. You can perform your transactions at Triadex by paying lower fees than many exchanges.

#### **ERC20 to ERC20 Trade**

As Triadex is a decentralized exchange based on Ethereum, ERC20 to ERC20 Trade is available. At the same time, anyone who wishes can list an ERC-20 based token on the exchange free of charge, by providing the required pool.

### **KYC**

Many users who want to trade in exchanges may have to give their personal information and there are many users who complain about this situation. Thinking that this situation will disturb our users, we decided that there is no KYC requirement to trade at Triadex.

# More Control (Self Custody)

One problematic part of trading on centralized exchanges is that you have to rely on the exchange. In case the exchange has any problems, users can lose all their funds. As Trianetwork Team, give the fund control to the users himself.

To trade, users just need to connect her/his wallet and if the only user knows his/her wallet password, users will have full control.

# Easy to use

The first factor for users to choose an exchange is the ease of use. Because users see the difficulty of using the stock market as a really big problem while making trades that are already difficult. Triadex provides great comfort to the users both visually and in terms of ease of use.

# **Emulate CEX Design**

Triadex, which we take care of being a simple and simple exchange by design, is extremely useful for the user. It prevents time loss and does not tire the user. We designed it especially for our users who have been trading for a long time in front of the screen.

# **Anti Draining Bots**

Perhaps the biggest problem for users on exchanges are bots that manipulate and trade. These bots, which mentally wear and damage traders, are a problem for every stock market user. Thanks to Anti-Draining Bots we will use on Triadex to solve this problem, everyone will be able to trade comfortably without manipulation.

### **Notification**

Users cannot control the transactions they have made at any time in the tiring rush of life or the extremely volatile market that is likely to change at any moment. Therefore, just like an alarm clock that wakes him up in the morning, it is vital that notifications alert him so that he does not suffer great losses or make big profits. Users will gain more and lose less by using this function.

### **Limit Orders**

The crypto market is more volatile than any market. However, the facilities and services provided by the exchanges are designed for the user in order to remove all kinds of negativity from there. Users can continue their life without interrupting their daily routine by entering an order at a price he/she wants to sell or buy a coin/token he/she has bought.

# **Trade History**

All users can record their transactions with the "trade history" feature. The "trade history" feature, which is evident for occasional transaction problems, is critical for user safety.

#### **Rewards**

Users trading on Triadex will be rewarded with community staked tokens from time to time. Thus, both the number of users and the transaction volume will increase.

### **Promo**

There is a chance to win extra rewards for every user who brings to the Triadex platform with a reference code. Invite your friends with your referral link, earn more, let's grow together.

# No deposit or withdrawal fees

Most exchanges charge you a significant amount of deposit and withdraw fees for your trading process, and this is a big problem from time to time for users who are constantly trading. Triadex has no deposit and withdraw fees, Deposit and withdraw fee is 0 (ZERO).

# No trading limits

Some exchanges set a certain daily limit for trades by imposing restrictions. Therefore, these exchanges are not attractive for users who want to trade a lot. In Triadex, users have the opportunity to trade as much as they want without encountering such a problem.

# No account required

Users have to provide at least 1-3 information to register with most exchanges. Email address, phone number, etc. Users who want to trade comfortably without giving this information and prefer Triadex, which has many possibilities, will not encounter such problems. Anyone can trade whenever they want without opening an account.

### 5. Trianetwork

Trianetwork is the most powerful DeFi platform for crypto assets. Trianetwork is extremely ambitious in its way of being the best in terms of cost, speed, security, etc. Our main vision is to connect all crypto ecosystems to Polkadot and Ethereum as a Parachain and build a user-friendly interface. Trianetwork is also a fast, secure, and cheap platform that can provide an exchange of assets. Although the negative view of DeFi platforms continues due to the many hacking attacks recently, Trianetwork can say that it still has enough usage area to maintain its popularity when necessary measures are taken. Especially, almost all users who make transactions in Uniswap complain about high fees. The idea of Trianetwork emerged because we thought that the platforms that such people want to use effectively should be cheaper and more effective.

# 6. Trianetwork Staking

Staking is the locking of the cryptocurrencies of the users for a certain period in order to make the network more secure and to generate income while doing so. At the end of the specified period, the income from staking is transferred to users' accounts. This income is directly proportional to the token that users lock. The more tokens are locked, the more revenue you get.

Projects that use the Proof of Stake algorithm take precautions against problems that may occur in the network and prevent these problems. Many people in the crypto market are investing in the future by holding some of their assets for a long time. Therefore, staking with these cryptocurrencies, which will be stored for a long time, provides extra income. In addition, another advantage is that it has the right to vote as a Validator in important decisions to be taken by the project and can have a say. This concept, which can also be considered as democracy, will increase the trust and investments in the project. In the Proof of Stake concept, new blocks are produced and validated through the process of staking. There are some validators who lock their cryptocurrency so they can be randomly selected to create a block in the blockchain. The more tokens participants stake, the higher the chance to be chosen as the next block validator.

# 7. Staking Pools

Staking pools are very similar to mining pools, they are just for proof of stake instead of proof of work. A staking pool allows bagholders to combine their computational resources as a way to increase their chances of being rewarded. That is, they bring together their staking power in the process of verifying and validating new blocks, so they have a higher probability of earning the block rewards.

Usually, a staking pool is managed by a pool operator and the stakeholders that decide to join the pool have to lock their coins in a specific blockchain address (or wallet). While some pools require users to stake their coins with a third party, other alternatives also allow stakeholders to contribute with their staking power while still holding their coins in a personal wallet. For instance, THE COLD STAKING POOLS enables a more secure model, as users can participate in the staking process while keeping their funds on a hardware wallet.

Staking pools provide more predictable and frequent staking rewards. Other than that, they allow stakeholders to make a passive income without having to worry about the technical implementation and maintenance of setting up and running a validating node. Interest in staking pools derives mostly from taking advantage of the overall staking capacity. For easy understanding, the bigger the staking pool is, the better the chances of a block verification.

# 8. Liquidity Pools

Liquidity pools are pools of tokens that are locked in a smart contract, on a protocol. Liquidity pools are criss crossing of orders. Users act as market makers in order to facilitate trading on these exchanges. These protocols allow a user to deposit an equal value of ETH and a token as a pair, which is available for other users in the exchange to trade with.

These are the ranges where you will find a lot of long, short, take profit and stop losses orders and this is because prices swing a lot around these ranges. Liquidity pools such as those on Uniswap use a constant product market maker algorithm that makes sure that the product of the quantities of the two supplied tokens always remains the same. Because of this algorithm, a pool can always provide liquidity, no matter how large trade is.

When users "tap" into either one of the tokens in your pair, they must match it with an equal amount of the other token. If you are a liquidity provider on Uniswap, then you will be rewarded 0.3% transfer fee for providing liquidity whenever that pool facilitates a trade. This is then split among all the liquidity providers in that specific pool based on how much of the pool they're offering.

# 9. How are assets priced in the liquidity pools?

Liquidity pools are designed to execute trades and also maintain a market price. Pool reserves stay constant despite the additional trades. Buy transactions will increase the price of the bought asset relative to the asset sold. Since the bought asset's ratio of the pool decreases. Sell transactions decrease the price of the asset sold. Since the ratio of the pool increases.

# 10. The Advantages of Liquidity Pool

# - Guaranteed liquidity at every price level

Liquidity pool is an automated market maker in the form of a smart contract that automatically matches traders' buy and sell orders based on predefined parameters. Traders do not need to be matched directly with other traders, so as long as investors have deposited assets into the pool, liquidity is constant.

# - Anyone can become a liquidity provider and earn

Since liquidity pools require no listing fees, KYC, Anyone can invest in an existing liquidity pool or create a new exchange pair for any token, at any time. When an investor wants to supply liquidity into a pool, they deposit the equivalent value of both assets. Supplying \$50 of liquidity into an ETH/DAI pool requires a deposit of \$100 worth of ETH and \$50 DAI, so \$100 in total. And in return, the investor receives liquidity pool tokens which represent their proportional share of the pool and allows them to withdraw that share at any time. The fund you can earn as a liquidity provider depends on some factors. Some of these factors are;

- & Asset price when the tokens are deposited and withdrawn
- & Total liquidity provided by the pool
- & Trading volume

# - Automated pricing enables passive market making

On order book exchanges, market makers need to constantly adjust their bids and asks as asset prices move. Unsurprisingly, market makers tend to be professionals who have the time and expertise to actively manage their market-making strategies. Liquidity pools don't need to aggregate information across exchanges to determine the price of assets. Liquidity providers simply deposit their assets into the pool and the smart contract takes care of the pricing.

# - Lower gas fees

Decentralized exchanges have a minimalist smart contract design that reduces gas costs. Efficient price calculations and fee distributions within the pool means less friction between transactions.

# 11. Decentralized Finance(DeFi)

DeFi is a combination of the words Decentralized and Finance, also this ecosystem consists of finance applications created on blockchain systems. The main purpose of DeFi is to create transparent and insecure structures such as unauthorized blockchains and peer-to-peer (P2P) protocols. Offering all the services provided by a bank, DeFi appears as a combination of banking services with decentralized technologies. Because of its many features, it can also be referred to as Open Finance or distributed finance. Decentralized finance offers many advantages over traditional financial services. Thanks to smart contracts and distributed systems, a financial application or product distribution becomes less complex, fast, transparent, and secure. The most important benefit of DeFi is to completely eliminate the need for intermediaries (software codes do the work of intermediaries) and significantly reduce costs.

# 12. Importance of DEFI

First of all, in order to know why we need DeFi, it is necessary to understand what it is and to see its potential. DeFi, which we know as one of the concepts that entered our lives with blockchain, is a concept that functions as a bank and offers more possibilities. It is an important technological invention that brought together the concepts of decentralization and finance within its own structure.

People are now denying control of governments, central institutions, and states, and especially looking for alternatives to achieve their financial independence. The number of people investing their money and valuable assets in banks is decreasing and people are now keeping their money in their cold wallets or physical vaults.

The DeFi concept has gained wide acceptance since its inception and its usage rate is increasing rapidly every day. DeFi is a peer-to-peer financial system that provides services without the need for any third-party institution, organization, or person. This concept, which closes many gaps in terms of security, seems to reach an indispensable dimension for people. Because it disables the biggest security problem, the HUMAN factor to a large extent. Combined with the technological possibilities and given the functionality of smart contracts, the positive aspects of this system cannot be underestimated.

#### 13. Pros and Cons of DeFi

# Advantages of DeFi

The DeFi concept has many important useful features. These include security, speed, cost, etc. many issues can be counted. Traditional banking has to evolve into a new era because all the opportunities it provides are offered by DeFi in better conditions. Large companies, governments, and institutions have now realized the necessity to integrate the most important functions found in each other for competition into their systems. Especially issues such as financial freedom and time are at the top of the agenda of people. For example; You know that there is a long and boring process waiting for you when you want to deposit your money in the investment bank.

Unnecessary paperwork, unnecessary questions, unnecessary procedures, and more. However, we can say that DeFi has reduced this problem to 0 (ZERO). You can borrow or lend money from a person on the other side of the world, whose name you don't even know, without the need for another intermediary. And the security of this is provided by software and technology. Or if you want to invest, many DeFi products offer you this opportunity. We are talking about a brand new technological arrival that offers all these services in a safer way, without losing time, reducing costs. DeFi. And this word will take place even more widely in our lives.

#### **Problems of DeFi**

#### - Low effectiveness

Blockchain networks are slow compared to centralized systems so any Dapps built on top of them are also slow and it may affect users in a negative way. When developing DeFi applications, these limitations must be taken into account and products must be optimized accordingly.

# - Accommodation process

Although it is not very easy to use DeFi applications, it requires detailed knowledge. For these applications to become a fundamental part of the global financial ecosystem, serious advantages and options must be offered and this adaptation process must be shortened, motivating users to move from the traditional system to the new system. Otherwise, this time will be too long and many difficulties may arise.

# - Smart contract problems

Smart contract vulnerabilities are one of the sources of problems for many DeFi ecosystems. A small mistake in a smart contract code can cause serious fund losses. Therefore, all users must be aware of these and accept responsibilities.

### - Lack of Insurance

One of the most important problems is undoubtedly Insurance. Most of the users also pay the insurance money to guarantee their funds. Even though these amounts are large, it means that the user's funds will be compensated in case of any problem. DeFi may be insufficient in this regard, and more detailed studies are likely to come in the coming days.

### - User mistakes

Although DeFi is a functional area, it may not be easy to understand at times. Therefore, by doing detailed research, learning all the details will make it easier to make transactions. Therefore, a small mistake may result in big losses. Users should consider this issue.

# - Contract Exploit

Hacking is one of the most common problems faced by the DeFi platform. It occurs as a result of weak and insufficient measures taken by the team in security matters. In order to avoid these problems, we increased the security level to the maximum level by regularly auditing our contracts. Users can trade securely on Triadex.

# 14. DeFi & Banking Systems

Technology is no longer an option in our lives, but a necessity, at least it is a factor that raises living standards to the highest level, makes life easier, makes our work comfortable, saves our time, and speeds up many things. We all know the Fintech companies that have been performing important tasks in finance for a long time. The biggest reason for the emergence of fintech companies is that financial systems must be integrated with technology. Otherwise, they know very well that their basic functions can no longer be implemented. Blockchain technology, which is still very new, has deployed the status of these companies and institutions to a completely different place. The belief that many important problems faced by developed companies and institutions even today will be solved with this new technology has been adopted by the masses. Examples of this are increasing day by day.

Especially the performance of decentralized exchanges in a short time made the work of many banks quite difficult. Faster and cheaper services, less time loss and flawlessly functioning software codes, etc. Also, security, transparency, and avoiding unnecessary procedures are among other benefits. Services provided by a bank; Borrowing, investment, withdrawal, money transfer, etc.

Why should we hear of serving a bank when there are better alternatives that do all this. Banking services are needed, not banks. A person anywhere in the world can lend you a loan, or you can borrow money from that person, and you can safely store your investment money on DeFi platforms with more income. Or you don't have to wait for hours to transfer money to someone. Most importantly, a factor that is the biggest source of all problems, such as human beings, is eliminated, and computer codes perform all these processes. All banks are aware of this situation and have started to renew their systems accordingly. Because this is not an option for them either, but a necessity for their survival. Wherever people find time, money, security, and the highest quality service, they will not prefer worse. All of these facts are what prompted us to create Triadex, a decentralized platform.

### 15. Parachain

A parachain is an application-specific data structure that is globally coherent and validatable by the validators of the Polkadot relay chain. In most cases, a parachain will take the form of a blockchain, but there is no specific requirement that they be true blockchains. They get their name from the concept of parallelized chains that run parallel to the relay chain. Parachains are maintained by a network maintainer known as a collator. The role of the collator node is to maintain a full-node of the parachain, retain all necessary information of the parachain, and produce new block candidates to pass to the relay chain validators for verification and inclusion in the shared state of Polkadot. Parachain consensus is special in that it will follow the Polkadot relay-chain. The Polkadot Relay Chain will not support smart contracts natively. However, parachains on Polkadot will support smart contracts. Additionally, there is the EVM pallet which lets a parachain implement the Ethereum Virtual Machine, thereby supporting almost direct ports of Ethereum contracts. Trianetwork will Establish the EVM pallet as a second layer in the network which allows us TRIA Token to act as a parachain to the polkadot network.

# 16. Trianetwork Ecosystem

Name: Trianetwork

Symbol: TRIA Decimal: 18

Max Supply: 100,000

### 17. Trianetwork Distribution

Developer: 25,000

Parachain: 40,000

Advisors: 5,000

Marketing: 10,000

Treasury: 10,000

Uniswap: 10,000

### 18. Trianetwork Release

L= Lock, M=Month, S=Sale, Y=Year

Developer: Max 3% (M,S)

Staking: 51% (L,Y)

Advisors: Max 0.3% Sell (M,S)

Treasury: 2 Years (L,Y)

Marketing: 2 Months (M,S)

Uniswap Pool: Pool (L,Y)

# 19. Contract Exploit

Many DeFi platforms have emerged recently. Undoubtedly, this is due to increased interest and demand, but there are some problems faced by DeFi platforms. Hacking attacks are at the top of these problems. Weakness of the measures taken in security issues can cause serious harm to users. Taking serious work and security measures is vital for DeFi platforms and user safety. As a result of all this information and research, we regularly audit our contracts to maximize the security level in order to avoid such problems.

We focus on contract-level vulnerabilities. Through smart contract vulnerabilities, attackers are able to exploit them, gaining control of assets or causing damages. According to the cause of damages, we classify smart contract exploits into three categories:

#### 1. Balance Increment

Contracts send currency to arbitrary accounts. Attackers conduct value transfer to gain profits from contracts by controlling target contracts.

#### 2. Self-destruction

Ethereum contracts implement a special operation of destroying themselves. Such a dangerous operation cannot be accessible by attackers.

# 3. Code injection

There are operations importing codes from external contracts. Then attackers are allowed to inject arbitrary malicious code into the execution if they have the control of such external contracts.

User security is our priority and every user can trade on Triadex securely. Our Devs team approaches this issue with sensitivity and provides users with all kinds of guarantees in order to avoid the problems experienced by other decentralized exchanges.

### 20. Risk Disclosures

In this Whitepaper, we shared all the details about Trianetwork and all components of the ecosystem. All written information, data, content and analysis are original and copyrights belong to Trianetwork LLC Company. You acknowledge that all investments related to cryptocurrencies are risky and that you are responsible for all losses you may encounter as a result of your investments in the project. So make sure you read and understand everything written in this whitepaper.

### 21. Conclusions

As a result, the Trianetwork project is a project that makes a difference with its vision, mission and services it provides. We are aware of the mistakes made by many projects in the market and we have solutions against all these. We would like to state that we are extremely assertive in price, security, and other areas. Triadex, the product we create, offers quality service that is far ahead of its competitors. Also, Triadex's interface and UI design is so basic and easy to use. Trianetwork, which we will integrate as Parachain by connecting to the Polkadot ecosystem, will also play an important role in terms of interoperability to all blockchain networks.

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# Thanks for reading your Trianetwork

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