



Rubic

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Executive Summary

New DeFi market

In 2020, the sphere of decentralized finance (DeFi) is rapidly gaining popularity in the cryptocurrency market. These are exchanges, wallets, applications and services, such as credit and deposit opening, whose developers do not have access to the funds of their users.

By September, the amount of assets blocked in DeFi protocols exceeded \$7 billion, according to the DeFi Pulse analytical resource. This is an absolute record, while since June the figure has increased seven times. It is obvious that DeFi has now become one of the fastest growing and most actual trends in the world of cryptocurrency.

At present the development of DeFi products is limited by the infrastructure Ethereum blockchain and cross chain issues. To solve the problem of total dependence on native blockchain, Rubic.finance is developing a cross-chain program solution for DeFi.

The basis of the Rubic project is a protocol for exchanging and receiving revenue and providing liquidity and business services. Rubic organizes DeFi services to enable a project to create, manage and trade tokens decentralized in one place and to ensure cross-chain compatibility.

Rubic P2P trades features

- Option to lock liquidity until trade is closed
- Uniswap / curve integration (in progress)
- No volume limits
- Ability to make crowdsales
- Public/Private deals
- No need to list token
- Investors get % from every successful trade
- % of platform revenue can be regulated
- Brokers support

We already have experience in providing multi chain services for creating and managing tokens (airdrop, crowdsale, pools) powered by MyWish.

Rubic's goal is to add multi chain p2p trades to existing services and develop other products such as liquidity pools. And make it simple and user friendly.

Introduction

How DeFi works and its distinctive features

Decentralized finance is a digital asset that operates on the basis of Blockchain technology, as well as cryptocurrencies such as Bitcoin or Ethereum. But unlike cryptocurrency payment systems Bitcoin and Ethereum, DeFi- services use derivative cryptographic assets - tokens. These are digital accounting units, issued on the basis of already operating blockchain-type platforms like Ethereum.

Characteristics of DeFi.

- 1. Resistance to censorship.** Storage, transfer and exchange of tokens cannot be limited to a narrow group of players responsible for network maintenance.
- 2. Program assets.** Assets that make up a DeFi product must have the attributes of standard tokens in a decentralized network.
- 3. Pseudonymity.** DeFi applications must use Web 3.0 standards for transaction confirmation and identification. This means that users use only the private access key with which they sign their transactions and confirm ownership of assets by analogy with Bitcoin. No additional user identity verification (KYC/AML) is required.
- 4. Transparency and reliability.** The holder of a DeFi asset can be found and verified with the help of a block quote. DeFi- service should not store user funds on large centralized cryptocurrency exchange wallets. Operations involve independent electronic wallets such as Trust Wallet, imToken and Coinbase Wallet, as well as smart contracts.
- 5. Lack of permission.** Users can issue, trade and own DeFi-assets without the approval of the banking regulator.

The audience of the platform.

How our service can be used for our main target audience:

1. Traders and token holders.

Rubic provides a full list of the services needed for users, who would like to manage crypto assets on most popular blockchains and p2p exchanging services in decentralized and open way. Users can make instant swap, limit order or p2p trade, participate in pools - almost everything needed for trading (except margin trading).

2. Brokers

Brokers can easily setup trade by adding Brokers % and share trade link in private or public way. Commission is set inside of the trade which makes it transparent for all parties.

Also the intermediary between the client and the market, which selects and evaluates the transaction can choose favourable deal on the platform and get their commission.

3. Projects and project owners.

Rubic provides the list of ready to use solutions for token creation (on any of popular blockchain), token sale contracts, airdrop tools and many others. After asset creation, the project owner can instantly list it on p2p trading platform. Platform provides liquidity lock option - to provide more guarantees to token holders.

4. Exchanges and OTC companies

Sites for transactions without entering the order book can use Rubic solution for improved secure and transparent trading. The exchanges can redirect their clients in an organized way to a bargain for a profitable transaction and take their percentage for it.

A special feature is that it will be decentralized and secure. OTC companies can also use a more advanced and convenient service that can be implemented directly to the site using the API protocol.

5. Investment groups

- Hedge funds - investment fund representing a pool of assets of investors
- Family offices - private independent organization providing services to family assets
- Private investors - holders of large cryptocurrency stocks

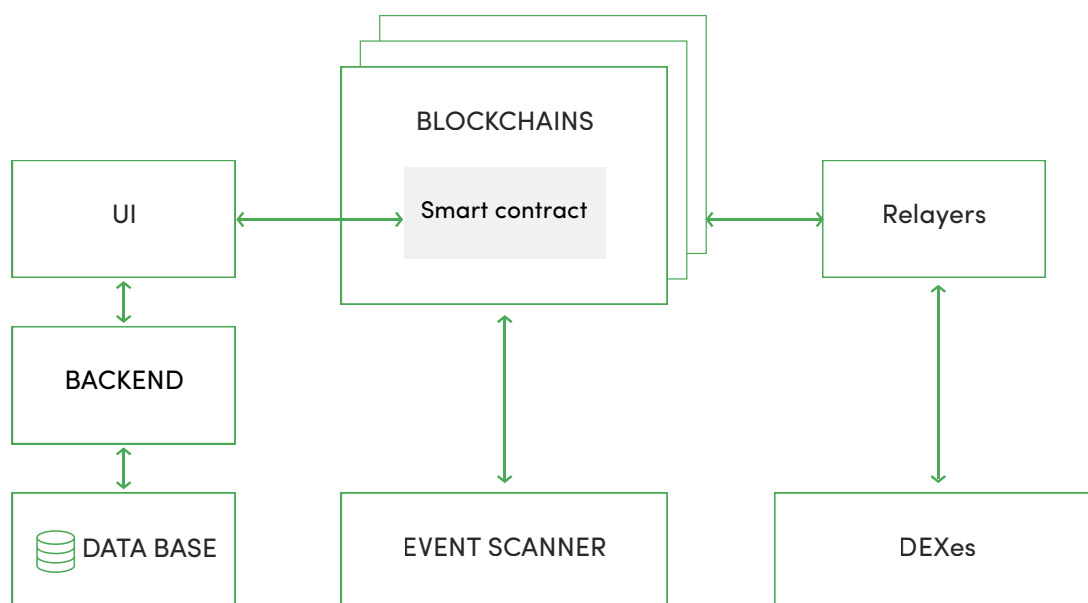
Advantages of use:

- exchange large amounts of investment in tokens observing strict security
- trade any pairs increasing capital at a favorable rate
- increase the wealthy safely

Description of the platform

Logically, the platform can be represented in the form of the following modules:

- Smart contract registering and executing swaps (depending on the blockchain, the corresponding programming languages are used)
- Interface for creating and managing transactions (using Angular 7 framework)
- Blockchains event scanner (uses Python 3)
- Database and back-end for managing transactions (using Python 3 (Django 1.11) and PostgreSQL database)
- Relayers for pushing transactions to external DEXes
- External DEXes (like uniswap or curve)



Consider each of these modules in more detail.

1. Smart Contract

Rubic P2P Trades smart contracts can be found here: <https://github.com/Cryptorubic>

Single smart contract for all transactions.

With this approach, the creation of a trade is a transaction of calling a smart contract with the parameters of the transaction. That is, one smart contract handles all requests for the creation, management and participation in transactions.

The parameters of the transaction to create a transaction:

- Unique ID Swap
- Token 1 address
- Token 2 address
- Number of Tokens 1
- Number of tokens 2
- Managing address of the transaction
- Minimum possible contributions
- Permanent flag
- Public/Private flag
- Brokerage percentage of token 1 and/or token 2 address for a broker commission
- Extra options

Pros of this approach

- Low cost swap creation
- High swap creation speed
- Trust in the smart contract, due to a large number of transactions

Cons of this approach

- The ability to simply track transactions

To mitigate the ability to track Anonimizer tool plan to be developed which will hide not only amount of the trade but also trading pair.

2. Interface

The service interface is implemented as a web page that supports mobile layout thanks to responsive design. The service is convenient to use on almost all mobile devices, which can support a resolution of 320x640.

Step 1. Select tokens and exchange direction

Create your Trade

YOU HAVE

2

ETH

Use custom token

YOU WANT TO GET

660

DAI

Use custom token

YOUR RATE IS 1% LOWER THAN COINMARKETCAP RATE.

> Create Trade

[Advanced Settings](#)

Step 2. Setting the parameters of the transaction

[ABOUT](#) [FAQ](#) [0XFD367A2DE6B8E...](#)

YOU HAVE

2

ETH

Use custom token

YOU WANT TO GET

660

DAI

Use custom token

YOUR RATE IS 0% LOWER THAN COINMARKETCAP RATE.

> Create Trade

[Close Settings](#)

CLOSING DATE

CLOSING TIME

PUBLIC DEAL

16.09.2020

16:47

X

NO

Trade will be listed on the main page

PERMANENT TRADE

YES

✓

Lock liquidity until the trade completion

MINIMUM CONTRIBUTION IN ETHEREUM (ETH)

MINIMUM CONTRIBUTION IN MULTI-COLLATERAL DAI (DAI)

0

0

BROKERAGE FEE

YES

✓

You can specify % for Broker

ENTER BROKER ADDRESS

0xD0593B233Be441A236F22b42087345E1137170b

SPECIFY % FOR ETHEREUM (ETH)

SPECIFY % FOR MULTI-COLLATERAL DAI (DAI)

0,3

%

2

%

0.006 ETH

13.2 DAI

Step 3. Initialization of the transaction

YOU HAVE 2 ETH **YOU WANT TO GET** 660 DAI **YOUR RATE IS 0% LOWER THAN COINMARKETCAP RATE.**

CLOSING DATE 16.09.2020 **CLOSING TIME** 16:47 **PUBLIC DEAL** NO Trade will be listed on the main page

PERMANENT TRADE YES Lock liquidity until the trade completion

BROKERAGE FEE YES You can specify % for Broker

ENTER BROKER ADDRESS 0xD0593B233Be4411A236F22b42087345E1137170b

SPECIFY % FOR ETHEREUM (ETH) 0.3% (0.006 ETH) **SPECIFY % FOR MULTI-COLLATERAL DAI (DAI)** 2% (13.2 DAI)

MetaMask Notification

Account 1 0x02a9...Ab1D

DETAILS DATA

GAS FEE 0.000104 Rate is unavailable

TOTAL 0.000104 Rate is unavailable

Cancel Confirm

Step 4. Managing the transaction

ETH <-> DAI **Active**

RATE: 0.0030303 ETH / 1 DAI 0.00302145 ETH / 1 DAI The trade's rate is 0.3% more profitable than coinmarketcap rate

SENT 0 LEFT 2 **2** **660** SENT 0 LEFT 660

Ethereum (ETH) **Multi-collateral DAI (DAI)**

Enter amount **> Contribute** Enter amount **> Approve**

Fill all **Brokers fee: 0.3% (0.006 ETH)** **Brokers fee: 2% (13.2 DAI)**

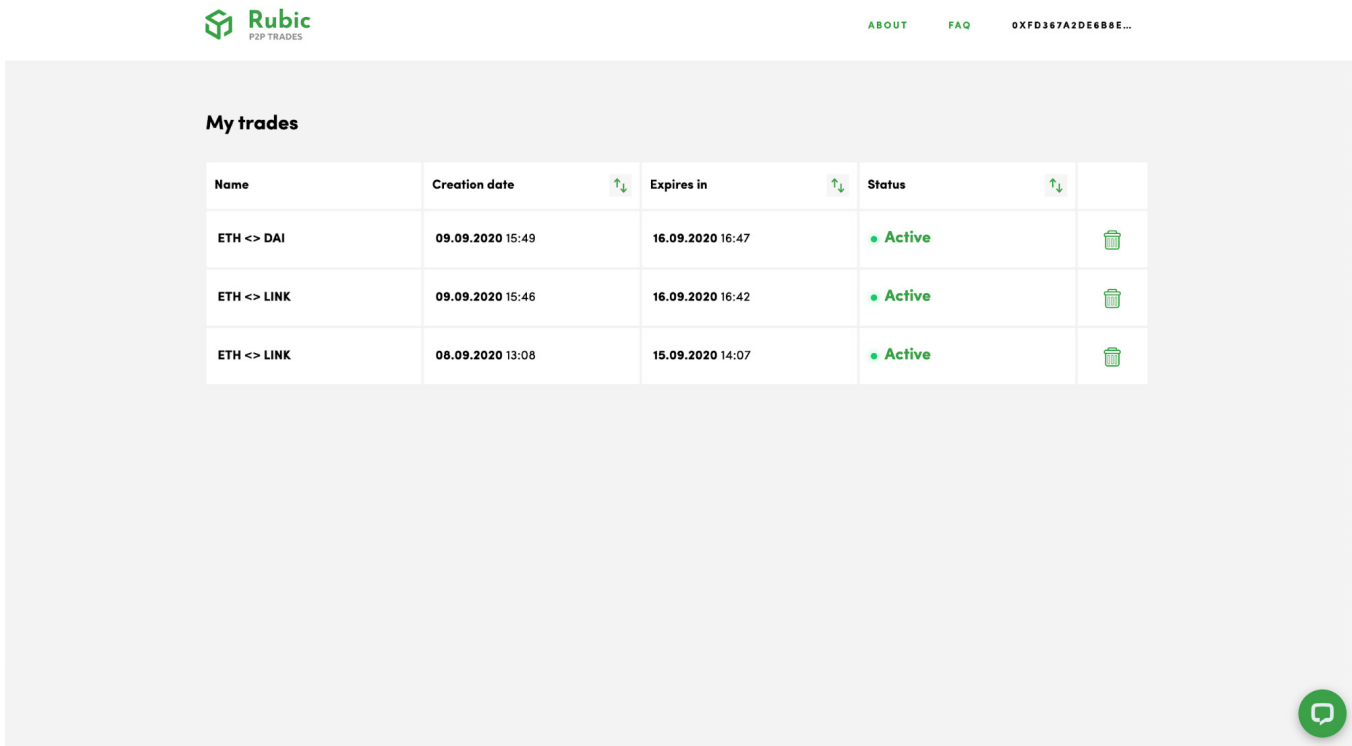
CLOSING DATE 16.09.2020 **CLOSING TIME** 16:47 **LINK TO DEAL** <https://rubic.exchange/public-v3/jzbb1> **PUBLIC DEAL** YES

MANAGEMENT ADDRESS 0xfd367A2de6b8ECAe413BB4E61057C1430d4f4a61




BROKER ADDRESS 0xD0593b233be4411a236f22b42087345e1137170b

> Cancel trade

Step 5. Create and Manage all of your trades



The screenshot displays the Rubic P2P Trades interface. At the top left is the Rubic logo with 'P2P TRADES' underneath. To the right are links for 'ABOUT', 'FAQ', and a user ID '0XFD367A2DE688E...'. The main content area is titled 'My trades' and contains a table with the following data:

Name	Creation date	Expires in	Status	
ETH <-> DAI	09.09.2020 15:49	16.09.2020 16:47	● Active	
ETH <-> LINK	09.09.2020 15:46	16.09.2020 16:42	● Active	
ETH <-> LINK	08.09.2020 13:08	15.09.2020 14:07	● Active	

A green chat icon is visible in the bottom right corner of the interface.

You can see how it's shown in live version: <https://rubic.exchange/>

3. Blockchain event scanner

The project uses public nodes of each blockchain. In some cases, for reliable operation, own nodes are deployed (for example, own nodes are used for Ethereum and NEO). The scanner is a service for monitoring blocks and transactions in the blockchain.

Scanner source code: https://github.com/Cryptorubic/rubic_backend

4. Backend and Database

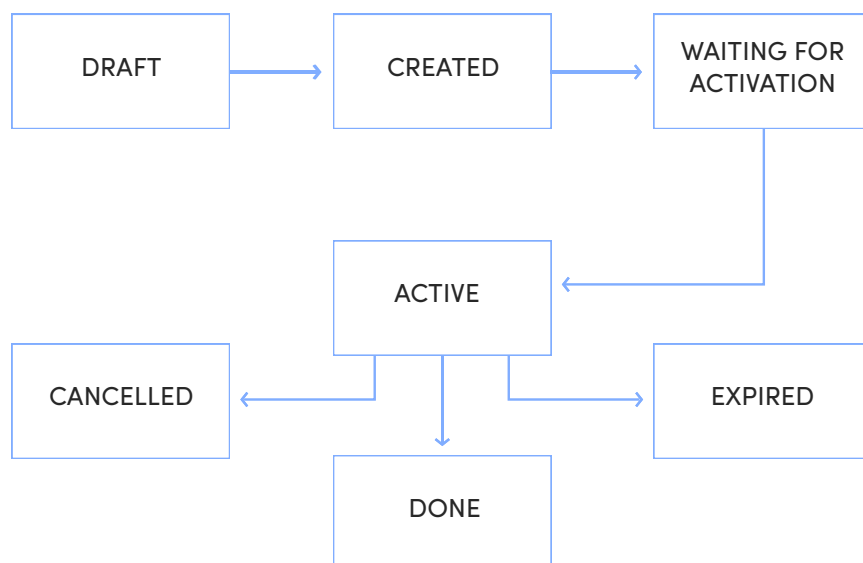
The Scanner works with Rabbit MQ and with own library Receiver - Its task is to receive events and distinguish them by type and then call the corresponding method.

Celery is used - asynchronous task queue.

For the basic functions of the service (user model, registration, etc.), the standard Django Rest Framework library is used.

Scanner source code: https://github.com/Cryptorubic/rubic_scanner

Trade Life-Cycle



The transaction has the following states:

- *Draft:* a swap is in the process of being created; swap in this state are not saved in the database.
- *Created:* the user has filled in all the necessary parameters. In this state, the swap is first stored in the Database. There is a binding connection to the user account.
- *Waiting for Payment / Waiting for Initialization:* A transaction is pending payment or initialization.
- *Active:* The swap is activated and ready to be executed. Available features deposit and refund, and cancel the swap by the author.
- *Cancelled:* The swap is cancelled by the author of the transaction. The only function available is a refund.
- *Done:* The swap was successful, all funds are distributed among the participants.
- *Expired:* The terms of the swap were not fulfilled before the expiration date. The only function available is a refund.

Interactions with different currencies

Currently, the service is available for the Ethereum network only. This means that more than 100,000 tokens will be available for exchange. Including tokens such as BNB (with a capitalization of more than \$4 billion) and ETHER (with a capitalization of more than \$26 billion). The next step is to expand the service for blockchains TRON and Binance Smart Chain.

However, the solution does not allow cross-blockchain exchange, which is a significant drawback at the moment.

Understanding that the volume of cross-blockchain exchanges is a significant proportion, the Rubic team plans to implement this type of exchange. To date, a number of projects have made progress in swaps between various blockchains.

The following projects can be distinguished: Polkadot (as main priority), Cosmos, Atomic Wallet (with Atomic Swap concept) and Tokrex Capital (with Cryptographic Deposit Guarantee concept).

Logically, two approaches can be distinguished: the use of mechanics embedded in blockchains (for example, smart contracts and multisig accounts) is the Atomic Wallet approach or the use of the add-on over the current blockchains — the Polkadot approach. The most preferred approach for Rubic is to use a super-network over blockchains.

Integration of cross-blockchain swaps will begin upon completion of work on swaps within each of 3 blockchains (Binance Smart Chain, Ethereum, TRON). Rubic with BTC look the most promising and will be implemented first by using renBTC service.

Competitors

The P2P Trade market exists for many years now. There are different companies who have created their own solutions for P2P/OTC trading.

We could break these into 2 main groups:

1. Centralized (Circle, itBit, Grapefruit Trading, etc)
2. Decentralized (AirSwap, SwitchEO, Tokrex, etc)

We understand that crypto exchanges want to participate in the OTC market and we could consider them our competitors. However, we think that their business's models contrast the OTC mode.

So below we will mostly compare our service with decentralized services because centralized OTCs have problems such as escrow, trust and most of the decentralized services solve them.

We could divide competitors into 2 groups:

- The first group creates an exchange service on an existing blockchain using its functionality.
- The second, develops its own product, which is an interlayer between users and blockchains.

Amongst these two groups, the most popular solutions on the market are projects based on a single blockchain.

Area/ Competitor	Rubic	Airswap	SwitchEO	Spark-Swap	Uniswap	Tokrex	Kyber-swap	Atomic wallet	Switch.ag
Decentralized	✓	✓	✓	✓	✓	✓	✓	—	—
No 3rd party	✓	✓	✓	✓	✓	✓	✓	—	—
Blockchains	Ethereum	Ethereum	Ethereum and NEO	Bitcoin, Lightning Network	Ethereum	Multy block-chans	Ethereum	Bitcoin, Litecoin, Vertcoin, Decred.	Ethereum
Crosschains swaps	will be ready in Q2 2021	—	—	✓	—	PLAN	—	✓	—
KYC	—	—	—	—	—	—	—	—	—
Limits	—	✓	—	—	—	—	—	—	✓
Online Support	✓	✓	—	—	—	—	—	✓	—
Multiple participants at 1 deal	✓	—	—	—	—	—	—	—	—

Area/ Competitor	Rubic	Airswap	SwitchEO	Spark-Swap	Uniswap	Tokrex	Kyber-swap	Atomic wallet	Switch.ag
Choose your rate	✓	✓	—	—	—		—	—	—
Choose ddl of your deal	✓	✓	—	—	—		—	—	—
Deposit	—	✓	✓	—	—		—	—	✓
Installation/ Setup	—	—	—	✓	—		—	✓	—
Custom token	✓	—	—	—	✓		—	✓	—
Decentralized messenger/ Communication between participants	—	✓	—	—	—		—	—	—
Multiple tokens	✓	✓	✓	✓	✓		✓	✓	✓
Multilingual service	—	—	—	—	—		✓	—	—
Private deals	✓	—	✓	—	—		—	—	✓
Fees	low	NO fees	low	low	low		quite high/ depends on the rate	depends on the rate	NO fees
Live	Live	Live	Live		Beta version	In August 2019	Live	Live	Live
Brokers fee	✓	—	—	✓	—	✓	—	—	✓
Mobile version	—	—	✓	—	—		✓	—	—
API	—	✓	✓	✓	API		—	✓	—
Opportunity to check in TEST NET	—	—	✓		—		—	—	—

Tokenomic

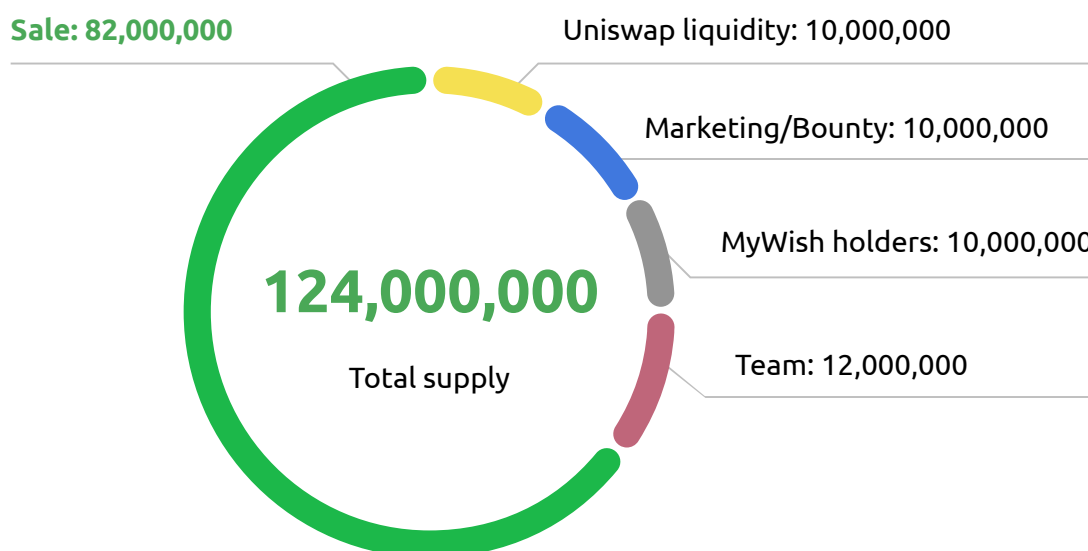
Rubic platform will have an ERC-20 “RBC” token which will be used as the fuel inside the Platform.

Platform will charge the users for the following actions on the service:

- Trade creation
- Brokers function usage
- Token listing
- Crowdsale contract usage
- Others services

Fees can be in RBC, Ethers, TRX or BNB depending on blockchain. The fees will be immediately exchanged to RBC token by using Uniswap (or other DEXes).

Accounting with Relayers, external services, marketing services will be made in RBC token.



- 10% of tokens will be reserved for the team. All tokens will be locked, and every 3 months will be unlocked by 2% (over a year)
- 8% of tokens will be directed at conducting marketing and bounty campaigns. 4% of tokens will be frozen for 4 months.
- 8% of tokens will be distributed to MyWish holders and will be unlocked every 3 months by 2% (over a year).
- 66% of tokens will be put up for sale.
- 8% of tokens will be locked on Uniswap for Liquidity.

Use of collected funds

- 50% of the funds raised will be used to develop exchanges for each of the blockchain and cross-exchange chains. This amount includes the payment of work to developers, training, hiring and all other activities associated with the development.
- 40% of the funds raised will be used for marketing and public relations activities, including the costs of building partnerships with exchange services, conferences, and attracting traffic.
- The remaining 10% of the funds raised will be reserved for unpredictable expenses.

Roadmap

October 2020

- Integration with Tron, Binance Smart Chain

November 2020

- Instant trades

January 2021

- Multichain solution with the help of other projects such as Ren, PolkaDot

February 2021

- Anonymizer

April 2021

- Liquidity Pool Platform



Multichain DeFi platform