



# tokenbox

White Paper



# Unique ecosystem for crypto investors, Funds and traders.

**With the development of blockchain technology and the rapid growth of the crypto-currency market, new opportunities appear consistently in the field of Investment.**

**The traditional economy changes its form, new values arise in the digital "world" and a significant role in these processes is played by decentralised technologies, in which cryptocurrencies and digital tokens play a critical role.**

**Increasingly, they are described as "crypto or digital assets".**

Professionals of the crypto market (portfolio managers and traders) are also often not sufficiently open to potential investors, as they are afraid of the influence of regulators and do not have a set of technical (software) solutions for the most efficient management of funds and interaction with their customers.

That's why we developed the Tokenbox Platform concept - a trust management ecosystem that unites investors on the one hand, and crypto-currency funds in the person of professional managers and traders on the other.

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## 1. Introduction

In 2009, Satoshi Nakamoto (Satoshi Nakamoto) created a payment system Bitcoin<sup>1</sup>, based on the revolutionary technology of Blockchain, which provided the potential to completely rebuild the Infrastructure of financial services worldwide<sup>2</sup>.

Blockchain is a journal ("ledger") with records of all the transactions, stored on a set of computers, united in a peer-to-peer network (P2P).

All communications within the network use cryptography to reliably identify the sender and the recipient as well as to protect the data.

The key advantage of blockchain technology is its resistance to falsification of records, because the data is stored in a decentralised manner, a potential attacker would need huge hardware resources in order to perpetrate a successful attack.

The Potential applications of Blockchain Technology are diverse: financial services, trade, logistics, certification of rights, elements of public administration.

One of the most promising options for Blockchain Technology is the possibility of creating new crypto assets. The Ethereum platform, which operates as a decentralised virtual machine was a key technological breakthrough in this direction.

The Ethereum platform allows you to create and use smart contracts, as well as to release your own tokens (crypto assets).

A smart contract is a program deployed on a detachment that stores and, on the basis of certain events, ensures the transfer of valuables within that blockchain. These values can be tokens, which can be created with the help of special software code, giving them the properties you and other users require.

Own tokens (crypto assets) can be offered publicly and can be an attractive investment opportunity, while performing many functions: settlement, the ownership of shares, voting rights, etc.

At the same time, it should be noted that Blockchain technology necessitates a wide range of skills from users: in the field of general computer literacy, information security, basic understanding of investment principles. Created out of the Crypto Market infrastructure, it is diverse (exchanges, services for storing crypto assets, media, consultants, etc.), and also fragmented. The knowledge of professional cryptology specialists is critical in order to create and develop the infrastructure that potential investors and users can trust.

We believe that today, an instrument that can ensure the effective management of private and institutional investors' assets on the market and can enable this wider market to enter this market, is a necessity. Tokenbox provides this solution.

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<sup>1</sup> <https://bitcoin.org/bitcoin.pdf> (10.08.2017).

<sup>2</sup> [http://www3.weforum.org/docs/WEF\\_The\\_future\\_of\\_financial\\_infrastructure.pdf](http://www3.weforum.org/docs/WEF_The_future_of_financial_infrastructure.pdf) (10.08.2017).



## 2. Market Analysis

At present, more and more investors and corporations are recognising the true potential of Blockchain technology, and the crypto-active market<sup>1</sup> is growing fast in comparison with classical capital markets. In the first six months of 2017, Crypto Trade on specialised exchanges increased by more than 10-fold, and in June attained a level of \$5 billion, while the total market capitalisation of all crypto-active assets during this period increased from \$18 billion to \$110+ billion (see Figure 1), representing 600% growth whilst for the same period, the S & P 500 index grew by only 10% (see Figure 2).



**Fig. 1.** Dynamics of Cryptocurrency market growth during 2017.<sup>2</sup>



**Fig. 2.** Dynamics of the S&P 500 in 2017.<sup>3</sup>

<sup>1</sup> The cryptocurrency market (cryptocurrency) and tokens.

<sup>2</sup> <https://coinmarketcap.com/charts/> (01.07.2017).

<sup>3</sup> <https://www.bloomberg.com/quote/SPX:IND> (01.07.2017).

A very important characteristic of the cryptocurrency market is the number of its users and the development of the corresponding infrastructure. According to the Payspace magazine portal, the number of worldwide users who have Bitcoin wallets has reached 41 million. There are nevertheless more modest estimates, and an independent study by Coinbase and ARK Invest Research in early 2017 suggested that more than 10 million people worldwide are Bitcoin owners. Despite this assertion, during June 2017, the customer base of Coinbase increased by more than 25%.

Important data from the report<sup>1</sup> prepared by the Cambridge Centre for Alternative Finance (CCAF) in the second quarter of 2017, suggests that the number of people actively using cryptocurrencies has grown significantly and is approaching the size of the population of a small country:

- The number of active crypto-currency wallets increased from approximately 0.6 - 2.6 million in 2013, to 5.8-11.5 million in 2017 "(twenty-six operators of crypto-currency wallets, including Airbitz, Armory, Bitgo, Blockchain, Coinbase, Greenaddress, Ledger, Jaxx , Myclium, Samourai and Xapo)
- At least 1,876 people work on a permanent basis in the crypto-currency industry and is likely to be significantly more than 2,000 people, allowing for the fact that the employees of large mining pools and other companies do not provide data on their employees.
- 81% of wallet providers are based in North America and Europe, but these regions account for only 61% of users (31% in Europe and 30% in North America). 20% of users live in the Asia-Pacific region and another 13% in Latin America.

Thus, it is already possible to emphasise the development of the cryptocurrency market on a global scale.

By mid-2017, worldwide, there are already over 80 stock exchanges which trade in cryptocurrencies<sup>2</sup>.

The rapid growth of this market attracts not only private investors, but an increasing number of professional participants. Exchange platforms, brokerage and investment companies and funds seek to offer investors access to this market.

Demand for the services of professional asset managers on the Cryptocurrency Marketplace also offers positive indicators. One good source of information confirming this fact is the Google Trends Service. Below is an analysis of queries about relevant topics by users around the world:



**Fig. 3.** "Crypto fund" search query dynamic.

<sup>1</sup> [https://www.jbs.cam.ac.uk/fileadmin/user\\_upload/research/centres/alternative-finance/downloads/2017-global-cryptocurrency-benchmarking-study.pdf](https://www.jbs.cam.ac.uk/fileadmin/user_upload/research/centres/alternative-finance/downloads/2017-global-cryptocurrency-benchmarking-study.pdf)

<sup>2</sup> <https://coinmarketcap.com/currencies/bitcoin/#markets>



**Fig. 4.** "Cryptocurrency fund" search query dynamic.

There are various types of funds that already invest in crypto assets (Hedge Funds, Classic ETFs, Closed-End Funds, Venture Capital Funds).

Independent and still a small segment of the market are tokenized funds. The key phenomena here is that investors acquire a share in the actual fund, receiving tokens as confirmation of the ownership of this share.

Among the first tokenized crypto-currency funds, which have been built according to the Blockchain technology and smart contracts, is The Token Fund<sup>1</sup> (currently operating), Satoshi Fund<sup>2</sup> (has recently announced that it will close in 2019, and has stopped accepting further investment), TaaS<sup>3</sup> (closed-end fund). We believe that it is tokenized funds that implement the principles of decentralisation and openness in their activities and will become the leaders in a growing market for professional investment management services.

What are the advantages of tokenized funds? Consider the answer to this question, listing the main features:

Characteristics	Description
Class of assets that the fund can invest in	Any tokenized assets (cryptocurrencies, token-shares, tokens-bonds, tokenized rights to raw materials, precious metals, real estate, objects of intellectual property) etc.
Period of operation of funds	Period of operation of funds
Types of funds (investor access)	Open, closed, corporate, private

<sup>1</sup> <http://thetoken.io/> (10.08.2017).

<sup>2</sup> <https://satoshi.fund/> (10.08.2017).

<sup>3</sup> <http://taas.fund/> (10.08.2017).

Types of funds (investor category)	Any category of investor, regardless of the amount of investment (the restriction to the capacity of the crypto-active market itself). The fund can work both with qualified investors and with small private investors (retail).
Types of funds (management strategies)	Any management strategy (index funds, active management, algorithmic trading, arbitrage strategies)
Receipt and return of investors' funds	In fiat currencies, cryptocurrencies, tokens
The certification of the rights to shares of investors in the fund	In the form of fund tokens. The value of 1 token is equal to the total value of assets in the fund's portfolio (capitalisation) divided by the total number of tokens. The fund's tokens, being crypto-assets, can be traded in organised markets. The security of storing the fund's tokens and the authenticity of the transaction history for investors is ensured by the technology of blocking.
Automation of the process for mutual settlements	Receipt of investors' funds, issue of tokens (shares) and reverse process of payment of funds are fully automated: payment processing is connected with the fund's smart contract. The fund commission is also automated with the help of a smart contract.
Automation of assets accounting in the fund's portfolio	The value of assets that are stored on fund accounts, exchange (trade) accounts, including funds reserved for execution of orders, is calculated automatically. The balances are read at addresses (wallets) in the blockchain, the actual market prices from the exchanges are automatically read.
Automation of reporting for customers	Calculation of the actual profitability of each individual client, taking into account the history of all its transactions with the fund. Automatic generation of reporting on the composition of the portfolio, relevant changes, performance indicators related to portfolio management.

According to expert estimates, at the beginning of the second quarter 2017, up to 10% of all funds invested in crypto assets were investment funds, and according to forecasts, their share in the market will continue to grow during the next three years<sup>1</sup>.

<sup>1</sup> <https://seekingalpha.com/article/4052276-cryptocurrency-funds-arrived-bringing-wall-street-money/> (10.08.2017).



The rapid growth of the market, coupled with the emergence of cryptocurrency within the legislative framework of an increasing number of countries<sup>1</sup>, has naturally accentuated the demand for professional cryptocurrency managers.

The above facts reiterate the need for the creation of an ecosystem depending on trust management - Tokenbox.

We have watched this market development keenly, we have participated in its development, and now it's time to create something unique.



### 3. Tokenbox Overview

#### The Ecosystem

Tokenbox is a unique ecosystem that combines crypto-currency funds under the management of professional portfolio managers and traders on the one hand and investors on the other.

Investors are to be granted access to the best strategies for managing funds on the Crypto market with a high degree of safety in these processes. Portfolio managers and traders, including professional teams, are to receive a ready-made "box" solution for the creation of its own tokenized fund, operating professionally, transparently and within the legal framework. The technical solutions offered by Tokenbox enable the fund management process and its development in an efficient and safe way.

Thus, investors can make their choice between different legal and audited funds, according to the inherent ratio of risk and return.



<sup>1</sup> Switzerland, Japan, Singapore, England, Finland, Australia, individual EU countries.

### Tokenbox provides the following benefits to fund managers and traders:

1. Engagement with the Tokenbox site within your relevant legislative infrastructure. Tokenbox is a legal "umbrella" fund, thus, funds and traders can minimise their legal cost.
2. KYC/AML. Tokenbox undertakes the organisation of these investigations on behalf of Tokenbox investors as well liaison with the requisite data verification systems.
3. Management of mutual settlements with investors using their own token, on the basis of smart contracts.

A trader decides to launch a fund named "Mark & Robert Coin Fund".  
In this case, a smart-contract is created for their fund, issuing the ERC-20 standard on the Ethereum platform.

Traders have determined that the token should have the ticker "MRCF".  
This token is an analogue of the fund unit, and its value depends on the profitability and dynamics of changes in portfolio capitalisation, not on the number of investors and the number of tokens which have been purchased. Investors can purchase the MRCF token, store it, transfer it and present it to maturity. Also, tokens can be accessed on organised markets – exchanges.

4. Access to internal and external liquidity. Using internal liquidity facilitates:
  - Reduction transaction costs. If it is necessary to conduct separate operations for the sale and purchase of assets, traders do not need to pay fees for the deposit or withdrawal of funds from the platform's internal accounts to external trading platforms. Also, internal liquidity is provided with a smaller commission, compared to third-party services.
  - Increase the level of security. The use of internal liquidity minimises the volume of crypto assets, which are temporarily controlled by external services (exchanges). The risks technology crashes and delays in the operation of lock-nets during the transaction period are reduced.

External liquidity is provided through access to organised markets (exchanges) with the use of corporate accounts, providing increased transaction limits.

## 5. Software for investment management.

We can confirm the 360 degree effectiveness of our software products (they are provided optionally depending on the needs of the particular fund):

- A trading terminal that is adapted to the needs of traders using different strategies (portfolio investment, algorithmic trading, arbitrage operations, active intraday trading, etc.);
- Built-in analytical tools (predictive modules, back-testing and forward-testing of parameters of trading strategies, sentiment analysis, etc.);
- Customer Line and Customer Analytics (for example, fund reports, information messages for customers, as well as analysis of the dynamics of incoming and outgoing investments, the regional affiliation of clients, etc.)

The technological infrastructure of the future Tokenbox Platform has already been developed and actually is being actively used by The Token Fund which consists of several main modules:

- smart contracts for the tokenization of funds;
- processing for the reception of investments and payment of funds to investors;
- system for calculation and control of the value of the fund's tokens;
- a parser that controls the volume of crypto assets on the balance sheets and their market value;
- Individual profitability calculation system for each fund client;
- a purse for storing ETH and tokens of the ERC-20 standard.

6. Access to the market of ICO-campaigns: centralisation and corporate approach enable the purchase of the project's tokens on beneficial terms (bonuses, discounts and guaranteed purchase). Tokenbox plans to provide tokens with access to the platform and also offers tokenization, processing, escrow, security audit, legalisation services.
7. Marketing support within the overall Tokenbox strategy as well as access to a global investment community with a substantial number of stakeholders.
8. A rating system that entitles investors to make a balanced decision while choosing a particular fund. The rating system allows even a small capitalisation fund to compete with larger participants, having a similar rating. The rating system enables funds to avoid a situation where investors anticipate particular result from a fund which actually contradicts their strategy.

For example, the fund's strategy includes in the portfolio only cryptocurrencies with a total capitalisation exceeding \$ 5 billion. The investor therefore should not expect transactions involving less liquid crypto-assets and, accordingly, riskier investment decisions.

### **What types of funds can be created on the Tokenbox platform?**

As well as Crypto-Currency Funds, the following types of funds can also be created:

- investment funds with active portfolio management (analogue - Mutual fund);
- index funds, including a token traded on the exchange (analogue - ETF);
- funds which follow active trading strategies, including Algotrade, robotised trade.

### **Tokenbox provides the following options for private and institutional investors:**

1. A secure, integrated gateway to the banking system for entry into a decentralised economy utilising fiat<sup>1</sup> currencies and classical payment systems. Inside the platform, investors can convert fiat currencies into cryptocurrencies and tokens, as well as conduct reverse operations.
2. Multi-currency wallet with the ability to safely store digital assets. The client has the opportunity to create a universal wallet for basic cryptocurrencies and tokens. For the convenience of users, there are two types of wallets for clients:
  - "Lite" wallet: in this version of the wallet, the keys are stored on the platform itself with the user's consent;
  - "Professional" wallet: when utilising this type of wallet, the keys are stored by the user.

Currently, various development teams are working on projects related to advanced decentralised services for exchanging cryptocurrencies and tokens.

In the future such systems will allow the creation of a different ecosystem of trust management which will be able to manage investors' funds without acquiring the right of temporary "possession".

The Tokenbox team monitors the emergence of new technological developments and intends to offer users the most advanced tools.

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<sup>1</sup> Fiat currencies: USD, EUR, CHY, CHF, etc.

3. Multi-level Security System<sup>1</sup>:

- All traders, registering in the system as asset managers, are required to undergo due diligence;
  - Best practise in the field of computer security, crypto active storage technologies are applied;
  - A regular audit of the security system is conducted with the involvement of industry-leading consultants and experts;
  - Fund managers and traders do not acquire the right to "own" a client's fund and can only create "light" wallets (with the storage of access keys on the platform), in fact all assets managed by the funds are safely stored under the control of Tokenbox.
4. The "rating system" and the "advisory" service that support the investor's decision to make the right choice from Tokenbox is provided to market participants and traders represented on the platform.

The main criteria for the rating system:

- profitability of the strategy (retrospective for the selected period, shown at different market phases, etc.);
- risk management (classification of assets, share of capital for the transaction, maximum drawdown for the selected period, etc.);
- a description of the strategy (transparency, credibility, history of strategy implementation).

The "Advisory" service can inform the investor of the optimum criteria for choosing a fund, according to the size of the investment, investment period, experience, risk appetite etc.

An additional means of protecting the interests of investors is a built-in risk management system. Tokenbox platform is independent of traders, which prevents traders from making transactions that contradict the adopted strategy (if such limitations are provided in the framework of its implementation).

Thus, the Fund's investors can be assured that the fund chosen by them follows the strategy that clients consider optimal in the ratio of risks and potential profitability.

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<sup>1</sup> Security is one of the key strategic benefits supported by the Tokenbox team.

5. Convenient, modern and intuitive interface. Tokenbox provides mobile, desktop and web versions for various operating systems.
6. Access to ICO-campaigns for investors. Tokenbox is an open platform and companies conducting ICO/ITO/TGE post the data about the project in order for the platform users to participate.

Investors can safely invest in ICO/ITO/TGE as well as to buy coins/tokens of projects, including from reserved volumes (guaranteed acquisition at a convenient time for the investor).

If you are interested in the details of the technical implementation of this project, we suggest that you refer to **Section 5 "Technical description of the platform"**.

In the next section we examine the team's experience and competence to implement a project of the proportions of the Tokenbox Platform.



## 4. Team and Background

The Tokenbox team has experience in successfully launching projects in the field of investment management in crypto assets. The current team activity: The Token Fund and CryptoTrader – a popular application from Zerion.



**The Token Fund**<sup>1</sup> is a tokenized investment fund that allows investment in cryptocurrencies and tokens of a decentralised economy. The management of the fund, mutual settlements with investors and the system of controlling the actions of portfolio managers on the part of investors are managed using the technology of blockchain and smart contracts.

All processes within the fund are transparent, and can be audited through Smart Contracts on the Ethereum platform, the source code of which is publicly available, as well as the provision of special software. Participants join the fund by purchasing tokens issued by a smart contract upon receipt of investment and shares. The fund itself works by analogy with classic Mutual Fund, investing in a wide range of quality crypto assets. Return on investment is automated and there is no minimum or maximum entry threshold for investors.

The Token Fund was officially launched on March 24, 2017, and the capitalisation of assets under the management of the fund now exceeds \$ 2 million, with a first quarter US dollar yield exceeding 227%.<sup>2</sup>

A majority of the Fund's clients are from Europe, the Middle East as well as other regions of the world. Currently, the fund does not operate with customers from the United States.



**Zerion**<sup>3</sup> (formerly EtherionLab) is a fast growing fintech company specialising in the creation of applications based on blockchain (including DApps). The Zerion team has extensive knowledge in the field of programming and experience in developing smart contracts on the Ethereum platform. The team has successfully provided technical and organisational support to the following projects: Waves, TrueFlip, Humaniq, Po.et.

The company entered the ICO market in 2015, assisting with the ICO platform Waves.

While developing the project, we also realised that the solution of such ambitious tasks requires the involvement of leading experts in such areas as:

- legal and licensing;
- investor relations;
- information and cyber security;
- big-data and machine learning;
- verification of customer data (KYC & AML).

The advisory council of the Tokenbox Platform includes well-known experts with a deep understanding of these modern technologies.

<sup>1</sup> <http://thetoken.io/> (7.07.2017).

<sup>2</sup> Information taken from the site <https://thetoken.io/> as of July 23, 2017.

<sup>3</sup> <https://zerion.io/> (7.07.2017).



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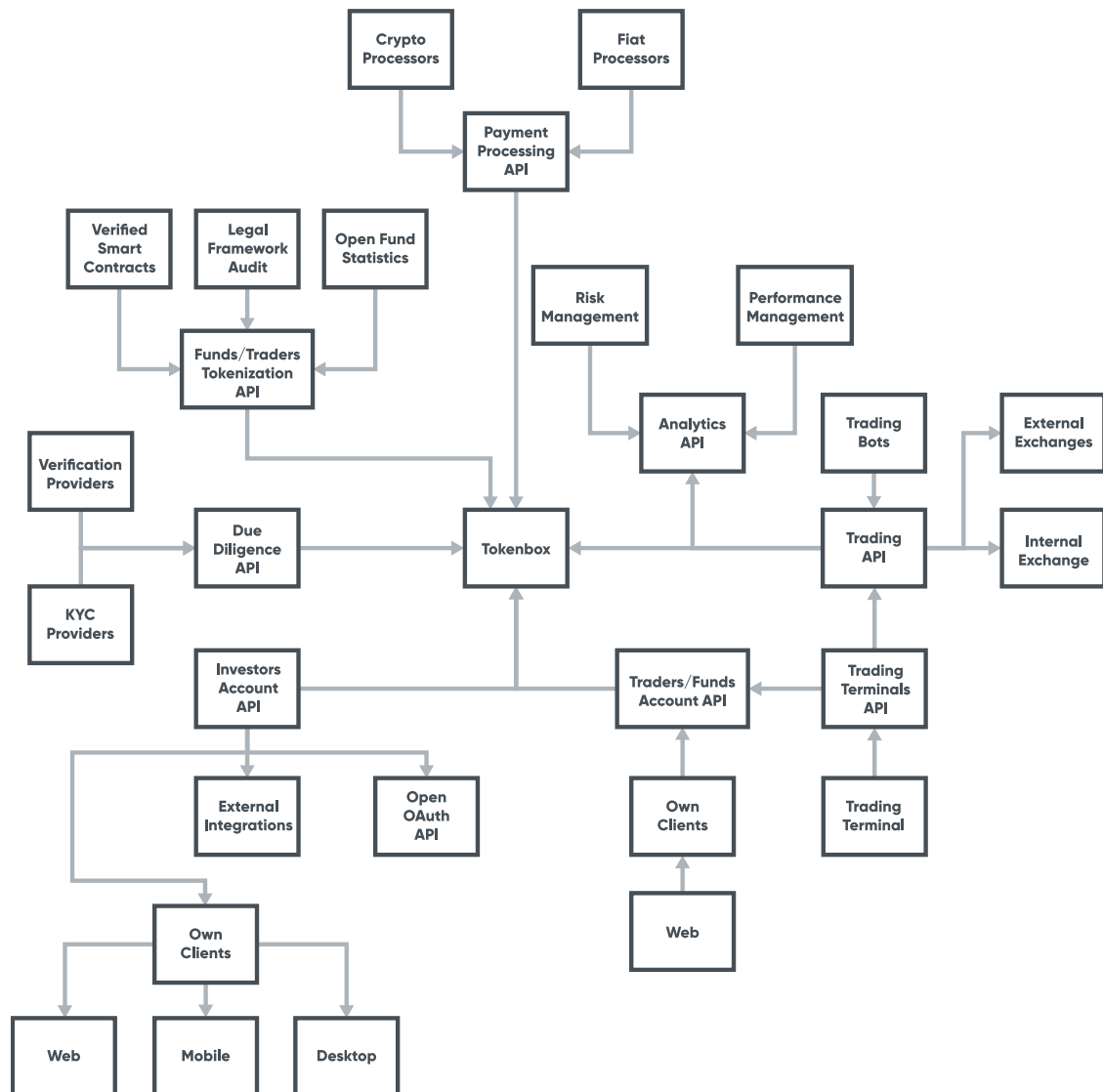
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## 5. Technical Description of the Platform

A key feature of the Tokenbox platform is "transparency", providing API access for other developers. Ecosystem partners can trace operations of the internal API's and interactions of its structural elements and modules. After conducting a security audit the client code will be available in OpenSource.



## 5.1. The System's Main Modules

1. **Investors**
2. **Traders**
3. **Due Diligence**
4. **Payment processing**
5. **API for trading**
6. **Analytics**
7. **Tokenization**
8. **The Repository**

### 1. **Investor**

- General API for the platform's clients. Own clients are built on this API and plugged in external integrations. App building available using open APIs based on the Tokenbox client base;
- For all investors, a KYC/AML procedure is being implemented by various partners for the jurisdictions of those countries whose citizens are citizens;
- For investors, there is also the opportunity to securely backup private keys outside their own account on the platform, and then import them into the platform;
- The registration process will be available for mobile and WEB platforms, as well as specialised programs for PCs and laptops;
- Third-party integrated sources will be able to transmit user registration data via encrypted communication channels, according to pre-established parameters which match the created user account identity codes.

### 2. **Traders**

- Traders access to the platform is provided through the web interface and personalised trading terminal (Windows / Mac OS);
- For all traders, multiple authorisations are created in order to protect investors' funds;
- Each object interacting within the ecosystem acquires its unique API identifier. This means that the action of each user – whether an investor or a trader – can be traced. A characteristic feature of the system is the assignment of APIs to internal contracts regulating the interaction between them. Thus, the probability of erroneous transactions, illegal actions on the part of the trader is levelled. The mutual relations of participants in the system become strictly regulated, understandable and "transparent" for each of the parties.

### 3. Due Diligence

- Due Diligence is conducted in order to review and approve regulatory issues;
- Information provided by partners in the Due Diligence process can be treated confidentially and is stored outside the platform. Only the results of such verification will be publicly available to participants of the ecosystem;
- The main instrument for maintaining the “interest” of investors and traders as well as creating a favourable trading environment is Due Diligence, checking all documentation received from investors and traders, monitoring their compliance with the declared requirements. The verification process is not clearly established, and is subject to constant review, with the result that DD requirements may change over time. Each change of this kind will be documented.

### 4. Payment processing

- Developed payment processors for different cryptocurrencies;
- A gateway for PCI DSS cards is being developed;
- Processing of the transaction of tokens and fiat currency is not directly related to the system with the actions of its members and is processed by third-party software services that comply with international information security standards.

### 5. API for trading

- The platform provides a unified API for working with various exchanges;
- Transactions can be made on the internal exchange with a clearing product;
- Trading robots, being an active trading tool, also receive their API and interact with traders within the system.

### 6. Analytics and risk management

- The analytical engine for the platform has been created using SnowPlow<sup>1</sup>;
- Logging of all transactions is open and periodically recorded on the block account;
- The built-in analytics module is also responsible for rating traders, considering the many different indicators characterising the trader's success, his experience, the trader's success trend according to different time intervals, etc.;
- Research to develop and implement a risk management system is in place.

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<sup>1</sup> <https://snowplowanalytics.com>

## 7. Tokenization

- For the tokenization (transfer of the Fiat and cryptographic currencies into tokens), the activities of the funds of traders use smart contracts based on "Solidity"<sup>1</sup>;
- These contracts deduct the commission from operations on the "parent" contract of the Tokenbox platform;
- A set of smart contracts is open and available for public audit.

## 8. The Repository

- All private keys are placed in a separate storage behind the contour of the platform, which allows to guarantee a higher degree of their safety;
- Access to the storage is regulated by PCI DSS standards;
- Investors' funds, excluding daily liquidity, are stored on multi-signature purses behind a closed loop.

## 5.2. Development Platform

The platform is based upon a set of microservices written in Python/Java. Separate interfaces to allow interaction between each group of Users and partners of the system are utilised. Tokenization of all traders occur on Platform Ethereum based on the ERC-20 token.



## 5.3. Infrastructure

The infrastructure of the platform is built using Amazon Web Services. The description of the infrastructure uses Docker containers. The databases and their replications are built using PostgreSQL and Elastic Search.



<sup>1</sup> <https://solidity.readthedocs.io>



## 6. The Platform's Tokens and Economic Model

### 6.1. The Purpose of Tokenization

For successful implementation of any complex project, investments are critical. The experience that our team has accrued through the development of The Token Fund, opens up opportunities to enhance the business processes for blockchain technology and relative investment activities.

We invite partners and investors to join the Tokenbox ecosystem by participating in the Token Project Event Generation (hereinafter – TGE).

Tokens can substitute domestic currencies, shares, bonuses or provide access to certain services of other block projects.

The usage of tokens (ticker – TBX) inside the Tokenbox ecosystem, allows the platform to develop seamlessly, and investors can clearly understand the goals for which they are purchasing TBX tokens.

Investors can rely on the fact that tokens are traded in the markets and therefore maintain liquidity.

### 6.2. The functionality and properties of TBX tokens

**TBX tokens are utilised on the platform, thereby providing funds and traders with access to the Tokenbox operations.**

**This methodology for utilising a TBX token can best be attributed to several "rules":**

1. A manager or trader who wishes to operate his own fund on the platform and take advantage of all the facilities provided, acquires TBX tokens and deposits them on the platform. These funds in the TBX format, are placed in the portfolio of the fund or trader and are valued in the portfolio like any other assets;
2. The volume of assets that can be transferred to any fund management on the platform requires a ratio of 20: 1 to the volume of funds on this fund in the TBX format. For example, a Fund plans to operate \$1 million of assets on the Platform. In this case, the Fund must deposit and include at least \$ 50,000 in the TBX portfolio, which represents 5% of the entire portfolio value;
3. The value of all assets of the fund (including TBX) for compliance with this ratio is calculated in US dollars;
4. Capitalisation of assets in the fund's portfolio fluctuates over time as the value of market assets also fluctuates, according to the transaction volume of incoming and outgoing funds from other investors. At the same time, TBX tokens should be constantly present in the portfolio of any fund represented on the platform, with a minimum content threshold of 5% of the portfolio

capitalisation. This principal ensures that all operational assets of the platform can be used. In the event that TBX share in a portfolio is below 5%, the fund will reject investments until the TBX share again exceeds its 5% threshold;

5. Funds can acquire TBX tokens on stock exchanges in order to meet the TBX 5% threshold. It is also possible to reduce the TBX share to 5% in the eventuality of a rise in cost and, accordingly, the share of TBX tokens.

**This model for utilising platform tokens has several useful aspects:**

1. Funds and traders can accurately determine how many TBX tokens they should purchase in order to access the Tokenbox infrastructure;
2. TBX token demand reflects the level of platform development, as well as the dynamics of the number actual ecosystem token users;
3. TBX token manipulations is complex. On the one hand, managers and traders are interested in lower TBX cost, which allows them to take advantage of the platform's functionality at a lower price. On the other hand, undervaluation is counterproductive, because a lower valuation limits the amount of assets available for management.

TBX token is a utility-token that provides access to the platform's operation. TBX liquidity can also be supported by the Platform's Reserve Fund. In order to understand this source, kindly refer to the distribution plan for funds that are attracted during TGE (**see Section 6.4**).

### **6.3. The Platform's Token Issue Process (Token Generation Event)**

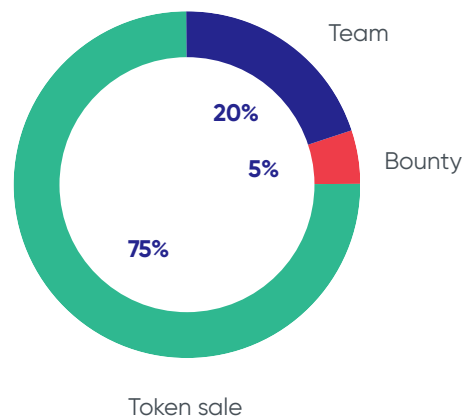
Token generation process (ticker – TBX) is organised using a smart contract on the Ethereum platform. Thus, TBX is a token of the ERC-20 standard and can be stored by investors using different wallets and services.

TGE is planned on the basis of a limited release (Issue).

In total, no more than 31,000,000 TBX will be released. The total number of issued tokens is dependent on the amount invested. The total number of tokens after TGE cannot be increased.



## The cost of 1 TBX for investors at all stages of the TGE is 1 USD



The release of TBX tokens and their delivery to the purses of TGE participants is made within 10 days after the completion of TGE. Representatives of The Token Fund and Zerion are monitoring the smart contract and the addresses, to which the collection of cryptocurrencies are made, using multi-signatures. It is also planned to attract escrow agents.

**Token acquisition is possible using crypto-currency: BTC and ETH.**

[Subscribe to the Tokenbox newsletter](#) and we can notify you about TGE dates.

The Token TBX will be quoted on several cryptocurrency exchanges<sup>1</sup> and will have market pricing.

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<sup>1</sup> Each quote will be announced by our analysts.

#### 6.4. TBX Token Functionality

1. Discounts on the amount of commission paid when investing in the Funds using tokens TBX (Tokenbox platform commission is not charged, separate funds may continue to provide discounts to customers investing TBX).
2. Voting system for holders of tokens for the raising of funds' ratings.

If the fund's rating is equal to or higher than a pre-determined indicator, the fund can participate in a weekly (monthly) procedure for determining "platform leaders". The holders of TBX tokens vote for the best funds and the latter receive the right to "commission holidays". The Tokenbox platform commission for entering these funds will be charged within 1 week (month). The rating of the fund is increased by 1 point.

3. Acquisition of marketing (advertising) services on the Tokenbox platform:
  - promotion to first place on the list of funds with similar market-place ratings;
  - distribution of investment proposals to clients registered on the platform;
  - inclusion of individual funds and traders in advertising materials on the Tokenbox platform.
4. TBX tokens are required for fund managers to acquire specialised analytical tools and individual services (as per request). It is possible both to develop your own analytical tools on the platform, and to acquire information on third-party developments with corporate discounts.
5. Individual funds may only be invested in the form of TBX. The launch of such funds on the platform are to be announced separately.

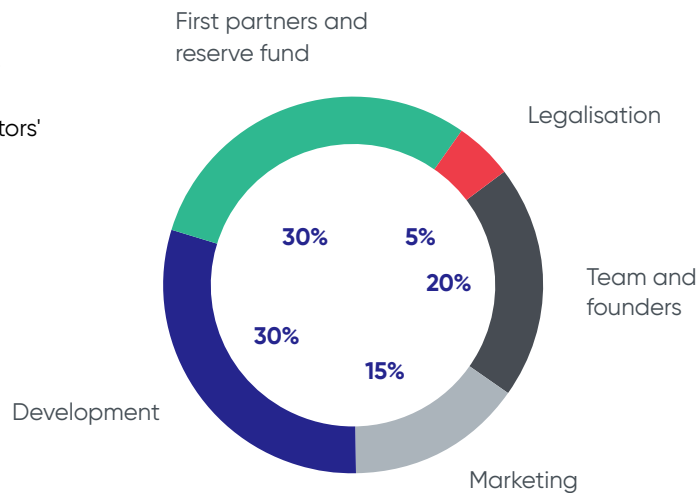
The TBX token is the internal currency of the platform or "App Token", the liquidity of which is provided by User Demand. The liquidity and investment potential of TBX can also be supported by the Reserve Fund Account.

In order to understand its development source, refer to the planned Distribution of funds collected during the TGE.



## 6.5. Distribution of Funds Collected During the TGE

TGE is planned in total to attract no more than **20,000,000 USD** of investors' funds.



# 30%

### Investments to connect the first fund managers and the formation of a reserve fund

Funding of up to 6,000,000 USD are sent as initial investments to the funds selected by the Tokenbox team. These funds (traders) undergo due diligence. Funds are allocated based on the characteristics of the strategy employed and its associated risks.

It is planned to select up to 10 funds with optimally diversified strategies. These investments should also be considered as the marketing costs necessary to attract professional management partners to the Tokenbox platform.

Organisation and launch of the first funds on the platform contribute to the rapid growth and development of the user community.

Thus, the first partners Tokenbox (funds and traders) have the opportunity to receive significant management funds at the start of the platform (alpha version).

[Please contact us if you would like to become one of the first Tokenbox partners.](#)

# 30%

### Development

Back-end, template smart contracts, web-interface for the platform, trading terminal, mobile and desktop applications.

# 15%

### Marketing

Attraction of investors and funds to the site.

# 20%

### Team and project's founders

Including the costs of research work.

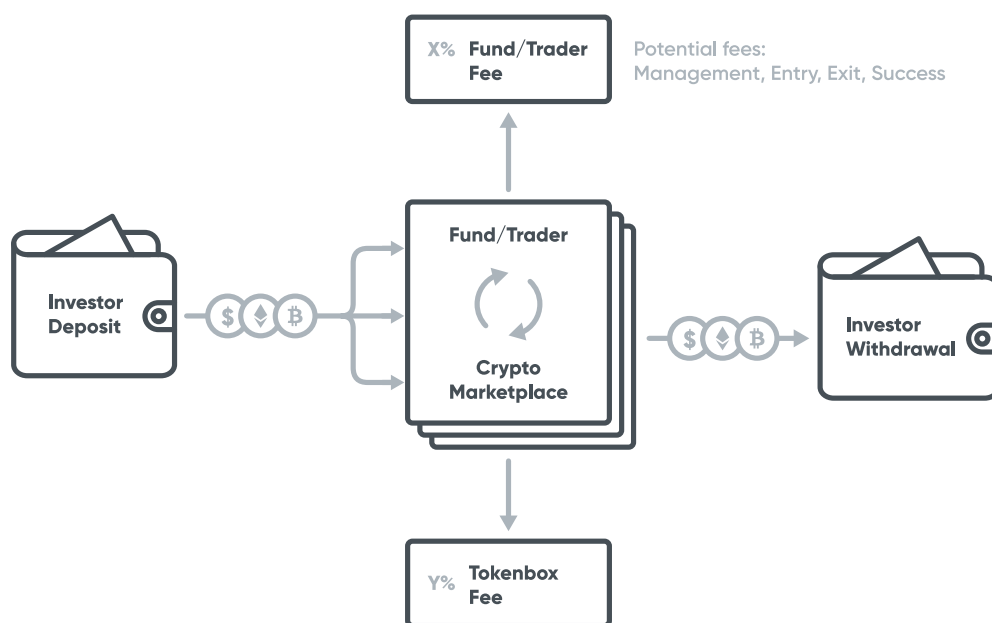
# 5%

### Legalisation

Company registration and appropriate licensing procedure.

Amount of funds managed by the selected funds is dependant on the "Reserve Fund". The revenues and assets of these funds, if necessary, can be used to maintain the liquidity of TBX tokens, as well as to extend the functionality of the Tokenbox platform. We anticipate to receive revenue for the "Reserve Fund" during the alpha version of the platform.

## 6.6. Tokenbox Operations



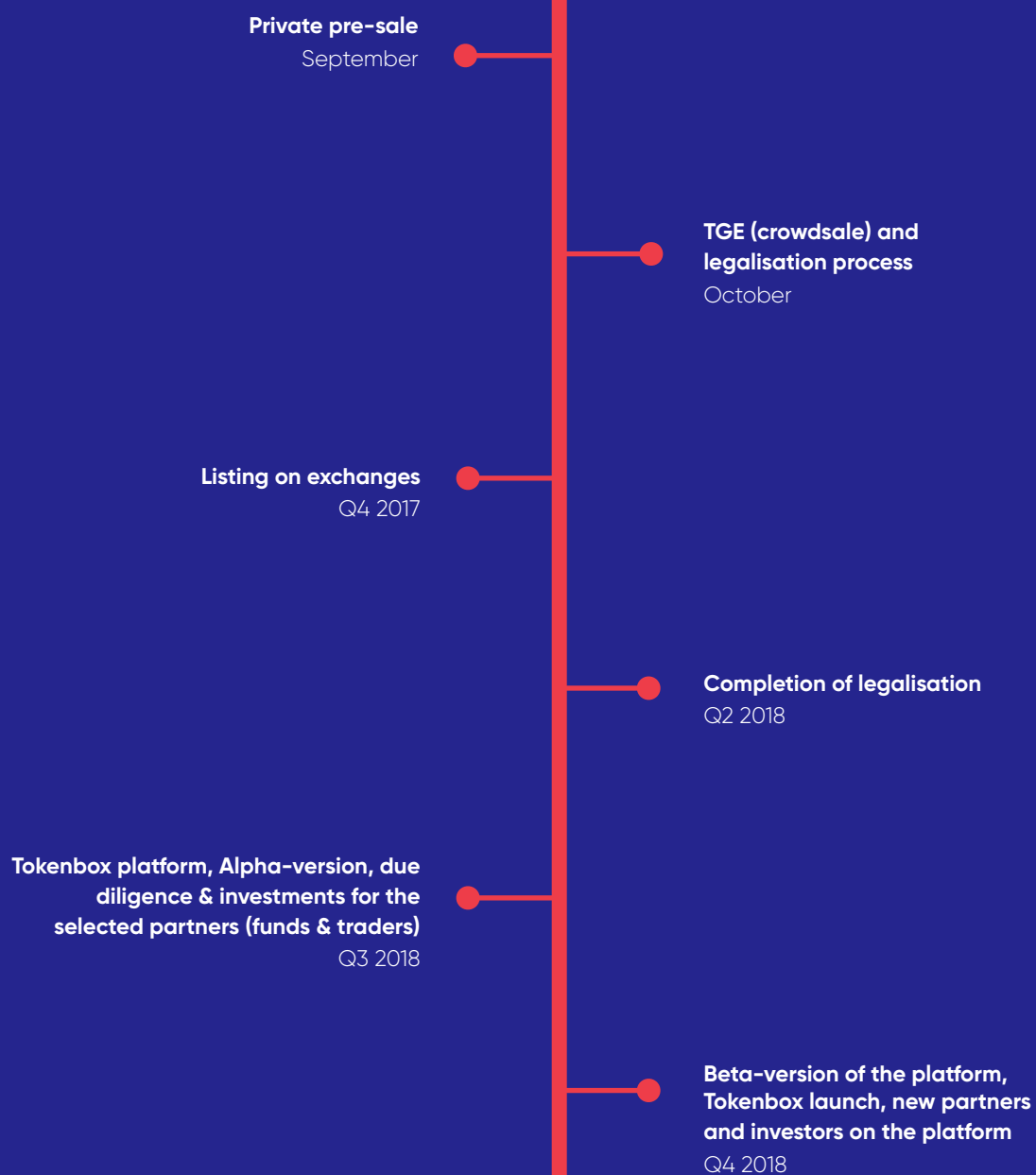
**Fig. 3.** Operating Model

Funds and traders in the Tokenbox ecosystem may charge certain commissions:

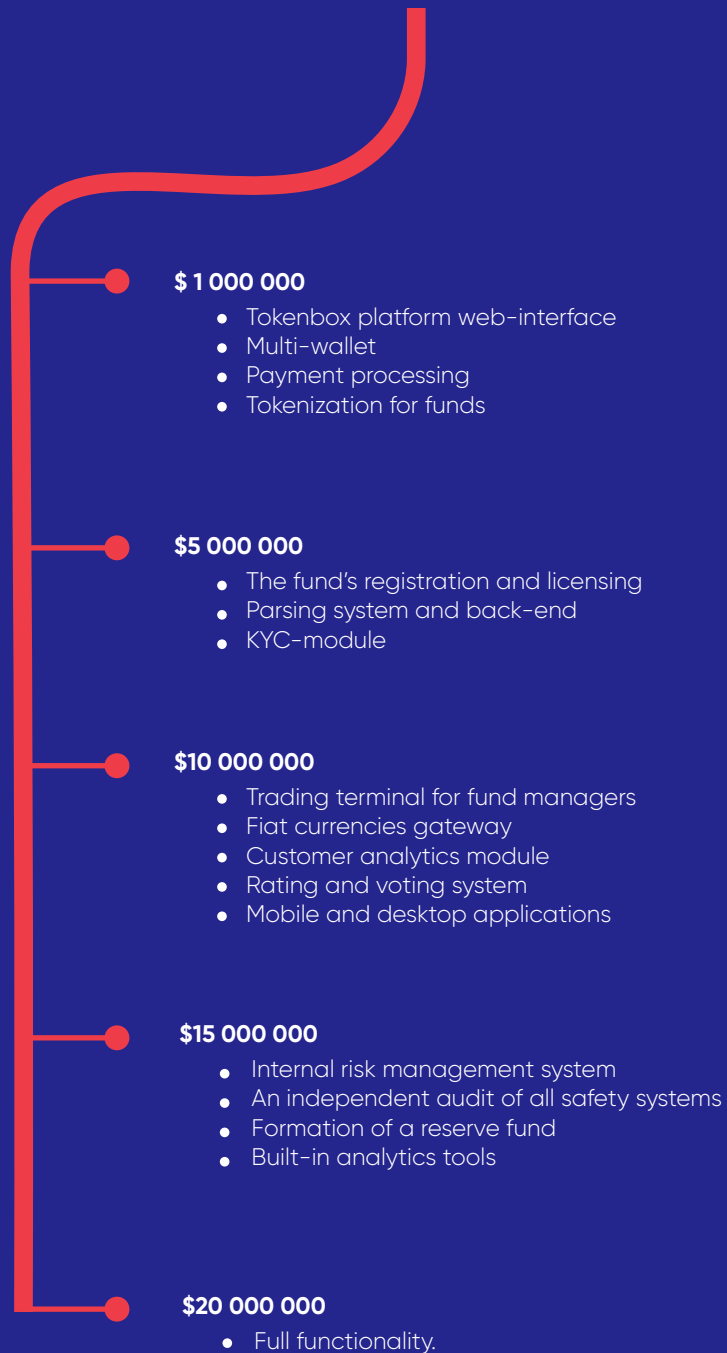
1. The fee for "entry" (for example, 2% of the invested funds is charged as a commission);
2. Payment for "withdrawal" (for example, 2% of funds withdrawn by the investor from the fund are charged as a commission);
3. Management fee (for example, 2% per annum on the capitalisation of the fund's portfolio, collected in equal shares during the year);
4. Fee for successful management (for example, 20% of the profit received after a month is deducted as a reward);
5. Combinations of options 1-4.

Part of the commission charged by the funds is utilised as the operating income of the platform Tokenbox. Another source of Tokenbox's revenue is the provision of funds and traders with internal liquidity at a regressive rate (for example 0.25%), depending on the volume of the transaction. External liquidity (stock exchanges) is provided according to the retail commission size.

## 7. Road Map



Tokenbox Platform will develop according to the pace of investment.





## 8. Comparison of Tokenbox with competing platforms

Currently, there are at least two known blockchain projects seeking to create an ecosystem that unites investors and funds in the Crypto Market: Melonport and ICONOMI.

Project	Tokenbox	ICONOMI	Melonport
Tokens	Utility Token (access to the platform's functionality)	Token-share (weekly dividends, voting rights)	Application's Token (access to the platform's functionality)
Integrated Wallet	✓	✓	✗
ICO Marketplace	✓	✗	✗
Fund/Trader Registration	Fund/trader passes mandatory due diligence	The decision on registration is made by ICONOMI (the criteria for which are not disclosed)	Only Melonport owners can create a fund
Fund/Trader Tokens	✓	✓	✗
Fund/Trader Status	Acts legally on the platform (the Platform is a multi-fund)	Legally not connected with the platform	Legally not connected with the platform
Rating System for Funds	✓	✗	✗
Integrated Analytic Instruments	✓	✗	✗



## **LIMITATION OF LIABILITY**

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