



## CRYPTOCURRENCY EXCHANGE TRADING PLATFORM

with daily loss compensation and profit distribution between  
TPX token holders

**PUBLIC CROWDSALE STARTS ON 19 SEP 2018**  
**HARDCAP - 20.000 ETH**

Bounty program is live and you can join by clicking on this link below:  
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# ANNOTATION

This document describes the new Topex.io trading platform that completely changes the notion of crypto-currency exchanges. Topex.io is a completely new crypto-currency exchange with daily compensation for transaction losses, as well as daily exchange profit distribution between TPX token holders. A huge number of different crypto-currencies form a demand for their exchange. There are trading platforms for crypto-currency exchange and each has its own drawbacks.

Each owner of the crypto-currency would like to increase the number of his coins regardless of their price, but many of us have repeatedly faced the losses when trying to earn. Volatility sometimes pushes us to rash decisions. Analytics and common sense leave us, and we fail, losing a vast majority of our investments.

Numerous owners of crypto-currencies are not IT specialists by their profession, not analysts and brokers on stock exchanges, that's why they suffer a lot of failures in the world of crypto-currency.

Topex.io trading platform creates completely new terms of trade, in which you will receive compensation depending on your trading volumes in case of any unsuccessful investment. You can make deals and not be afraid to lose your investments, because the economic model developed by our specialists is calculated to the smallest detail, it will be able to return almost all of your losses, up to 100%. Also, if you invest in tokens of the Topex.io trading platform, you will be able to receive daily income from the exchange's profit, which will be distributed among all token holders even without trading.

# INTRODUCTION



As the popularity of crypto-currencies rises, more people consider it and use the block-chain technology for payment, transfer, exchange. Cryptographic markets are limitless; they are used at any time and in any place. They have very great potential for growth. Introduction of crypto-currency and block-chain technology into the global world is a stable transition to a perfect future in which personal money management becomes easier, faster, cheaper and safer.

The world of crypto currency has created a completely new niche, which is developing due to block-chain technologies that will be able to change all market strategies and different approaches to business. Because of its characteristics, crypto-currency provides a huge number of new opportunities for both experienced and novice investors.

As well as other sector, the world of crypto-currencies has difficulties that slows down its development among users without technical knowledge. One of such problems is the lack of a trustworthy and reliable platform for crypto-currency exchange with minimization of losses and with profit distribution between users.

Topex.io trading platform is a complex method that allows to simplify work on exchange, and minimize losses in case of unsuccessful trades. Topex.io creates the necessary conditions for transparency, convenience and simplicity with minimal risks for traders. Fast and affordable crypto-currency deposit/withdrawals increases the likelihood of its introduction into everyday life by reducing the barriers to entering cryptology. With the Topex.io trading platform risks associated with trading are decreasing, allowing traders to save finances in case of errors. In this document you will be acquainted with the features of the Topex.io trading platform.

# MARKET ANALYSIS

Over recent years, the volume of trade in the crypto-currency market has increased several times, at the same time the total market capitalization of crypto-active assets increases significantly every day. Bitcoin and Ethereum represent a significant part of the overall market, but the cost of other crypto-assets is skyrocketing, along with their number. In the last year, market capitalization of Bitcoin has fallen to 43% and the market has many competitors able to take its place now. The exchange of the crypto-currency between themselves and for fiat currency is mainly carried out on centralized trading exchanges, where the general capitalization of a particular currency is determined.

There is a huge number of exchanges for the exchange of crypto-currencies today, they have their features and tools for trading, allowing you to multiply your investments massivey in the shortest time. One of the most popular exchanges at the moment is the Bitfinex exchange, with one of the largest volumes in the crypto currency trade, providing a huge number of services with a user-friendly interface, but it has strong limitations for new users. American exchange Poloniex is the largest exchange in terms of trading volume, with margin trading, rather low commission and high level of security, but does not exchange, as deposit and withdrawal, of fiat money. It is a barrier for investors when entering crypto-currencies market. British exchange Bitstamp was the first among all to receive a license for the exchange of crypto-currency, with the possibility of bank transfers, inferior to the interface, and complicated verification. The lack of the ability to solve customer's problems quickly raises questions about the quality of the resource and management of most crypto exchanges. Drawing a conclusion, we've come to the fact that each of the trading platforms has its drawbacks.

Considering all the shortcomings of competitors, we are creating a completely new and unique trading platform, with a large number of financial and social tools that allow improving the quality of the currency trade.

# INITIAL-COIN-OFFERING (ICO) —————

The initial coin (tokens) offering, ICO, is a form of attracting investments into new technological projects and start-ups in the form of emission and sale of these tokens to investors. 2017-2018 were the best years to sell tokens. As the most recent studies of large analytical companies show, not only the growth rates of sales of tokens increase the amount of capital invested in them. ICO allows you to run new projects on the block-chain network, attracting investments, releasing tokens, which represent a basic asset. One such case is one of the first ICO of the Ethereum crypto-currency, which in 2014 collected more than \$15 million.

ICO is a new financing model for start-up companies that play an important role in the block-chain industry.

## **The largest ICOs that were previously conducted:**

In 2018, the number of token sales averaged double over previous years

1. Browser based on the Brave block-chain, which on May 31, 2017 raised \$35 million in exchange for its own Basic Attention Token (BAT)

2. Block-chain start-up EOS is a unique software environment for EOS.IO Software for developing applications based on decentralization. \$175 million collected

3. Digital community Tezos, formed on the basis of block-chain technology, launched the ICO process on July 1, it managed to collect 65,703 BTC and 361,122 ETH, which is about \$1 billion at the current market rate.

# TARGET USERS

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Crypto-currencies and block-chain technologies are being covered in the media more and more since mid-2017. This significantly increased the number of people who have become potential investors in the crypto-currency. While entering the crypto-currency market, these people are afraid of new technologies, but their interest is too high. Our new trading platform with a unique economic model will reduce the entry barrier, which will attract potential users and bring new investment in crypto-market and the block-chain technology. Decentralization in block-chain technologies is an additional guarantor for attracting investments. Currently, the main volume of the crypto-currency exchange is carried out on centralized exchanges. Decentralized exchanges are complex for the ordinary user and can not yet meet the requirements of advanced users who are engaged in exchange trade professionally. Topex.io will provide an opportunity to choose the development of the exchange for its investors by voting that is accessible to all holders of TPX tokens.

# TOPEX.IO TRADING PLATFORM

## Overview

Topex.io is a crypto-currency exchange with a daily profit distribution between TPX token holders and compensation for trade losses. Several exchanges with a profit distribution are on the market, but there are none that would compensate losses up to 100% in case of unsuccessful investments in the crypto currency.

Each member of the exchange will be able to include the function of compensation for losses in his/her personal account and when making a transaction, he/she will automatically fall under compensation, paying commission when making a transaction. If, during the trading of the crypto-currency, its total initial balance for the same trading pair decreases, at the end of the day it will be compensated for losses from the compensation fund, which is 25% of the total profit of the exchange for 24 hours. The volume of compensation will be calculated based on the volume of negative transactions in relation to the total volume of negative transactions of other bidders. Also, if a participant owns TPX tokens, then once in 24 hours he will be credited with the remaining part of the profit (75%) as a percentage of the total tokens holders on the exchange.

The unutilized compensation fund is postponed to the next 24 hours, which will allow a large part of the losses to be compensated for by a major drop in the exchange rate of a particular currency.

## Structure

Topex.io is not only a platform for crypto-currency exchange, but a full-fledged financial instrument with a huge number of possibilities, thanks to a unique architecture that allows performing a large number of complex algorithms in the shortest possible time.

### 1. There is a large number of orders:

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**Limit order** - an order at the specified price;

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**Market order** - instant purchase or sale at current price;

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**Stop order** - placing an order when a certain price is reached;

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**Trailing stop** - next stop order to the price;

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**Hidden orders** - an order without displaying in the general order book;

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**A brand new Smart order** - a smart order that allows you to minimize the losses on the transaction as much as possible;

**2. Margin trading with crypto-currency that allows you to increase your profits, as well as compensation for losses!** Margin trading with a x3 leverage is a more professional and efficient way of trading than conventional trading. Users can borrow a certain amount on the bids put forward, or let the exchange do it automatically when the transaction is concluded.

**3. Customizable interface of the exchange will allow you to hide, delete or move all the elements as you want, so that you can work as you are used to.** Sorting inside elements, notifications on different blocks. You can create a completely custom interface from the various elements that you need.

**4. The presence of a huge number of pairs for trade will make it possible to not to pay an additional commission in exchange.** The block with tickers (pairs) will be thought out so that you can immediately place orders on one or several pairs at once and follow the rates of other pairs without switching the page.

**5. Built-in crypto-portfolio will give you an opportunity to track all changes in profit, share information on purchased coins with other users.** Making all the transactions for buying or selling all the information will be recorded and displayed in your portfolio, the total balance, changes over 24 hours, profit or loss, and the possibility of analyzing your previous actions will be possible thanks to a time line that you can easily return to the past.

**6. Convenient tradingview.com charts integrated into the platform will allow to build online technical analysis and trend lines and use them to determine the price increase or decrease.** The use of unique algorithms and the presence in our team of professional analysts will give the platform a completely new functionality in the future that you will not find on any of the exchanges.

**7. Trust management is one of the tools that allows you to partially or completely exclude your actions for buying or selling of crypto-currency.** The system of analysis of experienced traders provides additional opportunities for proper investment. Each trader can give his/her agreement to track actions on buying or selling of crypto-currency assets and thereby earn TPX tokens in his personal account. Owners of the tokens will be able to subscribe to the best traders, which will allow them to repeat the actions of a successful trader in a semi-automatic or automatic mode.

**8. To minimize losses of all traders even further, we are developing a prediction system built into the charts to reduce trade losses.** The system will analyze many trading indicators, compare different periods and find similar figures of technical analysis, and the neural network built into the exchange system will adjust the system and provide possible price changes on the charts together with a team of professional analysts. This functionality will be provided to all users who have TPX tokens.

## Economic model

At the moment, crypto-currencies are considered as an attractive investment asset, characterized by high profitability. At the same time, as is known, the higher the profit, the higher the risks. In exchange trading investors face various risks, primarily a group of market risks associated with changes in the value of financial assets.

Due to the relative novelty of the markets, crypto-currency is characterized by an increased volatility, which is rather a benefit for experienced traders, since it allows you to receive high profits in short periods of time. At the same time, for novice investors, high volatility acts as a kind of entrance barrier to crypto-currency market. Topex.io economic model is aimed at reducing market risks in the trade of crypto currency and fiat currency, this approach helps to reduce the entrance barrier to crypto-currency market.

The golden rule of investing is the following: invest as much as you are not afraid to lose, and you can be not afraid with Topex.io! Deep analysis of the competitive environment, coupled with a systematic approach to reducing the uncertainty of trade in crypto currency, will allow us to create a new generation exchange. The idea of Topex.io is based on a systematic approach to risk analysis. Topex.io's exchange model allows you to hedge volatility risks for traders through loss-compensation transactions.

- The economic model underlying Topex.io is aimed at reducing volatility risks.
- Website security solutions are aimed at reducing operational risks.
- Marketing campaign and successfully functioning Topex.io website by its very existence will be attracting traders and investors. therefore reducing the risk of liquidity.

The economic model of all exchanges is based on commissions for trading operations on them, since commission payments are the main and most significant source of their income. There is an increasing number of crypto-exchanges, among them there are those that do not charge a commission for the implementation of operations of purchase and sale. The absence of a commission may indicate that these exchanges act as a supplement to the main type of commercial activities of their developers, for example, providing asset management services to their customers. Under that logic the main efforts are always focused on the type of activity that generates income and allows supporting support.

There are also websites that do not plan to charge a commission in the first months after launch, gradually introducing and increasing the percentage of the fee for their participants. Such model carries some risks, since it complicates the construction of long-term trading strategies for traders, introducing additional uncertainty.

Topex.io is a new generation exchange. In addition to the distribution of profit between the token holders, our exchange deals with partial or full compensation of losses in the trading operations, the opening and closing of which was carried out within 24 hours.

Compensation for losses is realized through redistribution of the fourth part of the commission fee of the exchange between the bidders. The amount of compensation is directly proportional to the volume of funds for a specific transaction. The less transactions are closed with a loss, the higher the percentage of the compensation fund goes to each of the participants.

The Topex.io compensation fund is formed from part of the daily profit of the exchange and is 25% of the daily turnover. Unspent funds for last 24 hours are transferred to the next day and etc. Topex.io provides traders with a safety net, the size of which depends both on the total trading volume on the stock exchange and on the success of each individual trader, so we are interested in minimizing the loss of assets by our participants. To do this, a special system will be launched, allowing our members to optimize their trading strategies.

#### **To demonstrate the functioning of Topex.io we modeled one trading day on the exchange:**

- with the help of the random number generator, the amounts on the deposits of bidders were formed;
- the average volume of one transaction of each participant is 5% of the total amount of funds on its deposit;
- the level of loss at which the transaction is closed is 0.2% of the total amount of funds on the participant's deposit.

Formation of the compensation fund is as follows:

$$K_{24} = \frac{\sum_{i=1}^n a_i * 0,2\%}{4}$$

Where:

$K_{24}$  – amount of compensation fund for 24 hours;

$a_i$  – amount of deposit of the i-th bidder;

$n$  – number of bidders for 24 hours;

0,2% - Topex.io fee.

With a daily turnover of 1031.9112 BTC volume of compensation fund will be 0.5159 BTC.

When entering the Topex.io website each user, depending on the volume of liquidity, is given a rating representing the percentage (in percentage terms) of the participant when the funds of the compensation fund are redistributed in case of closing the transaction with a loss.

$$r_{i,deal} = \frac{a_{i,deal}}{\sum_{i=1}^n a_{i,deal}}$$

Where:

$r_{i,deal}$  – the rating of the i-th bidder on the transaction in question;

$a_{i,deal}$  – the amount of deposit of the i-th participant in the trades under the transaction in question;

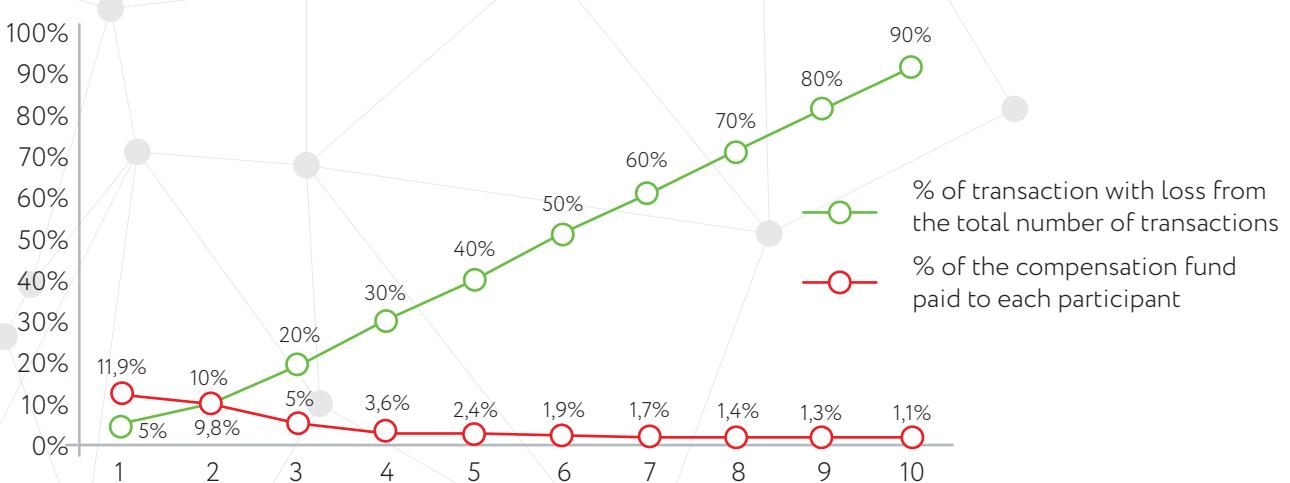
$deal$  – transaction on an arbitrary pair of crypto-currency and (or) fiat currencies.

The greater the volume of liquidity - the greater the percentage of compensation when closing a transaction with a loss.

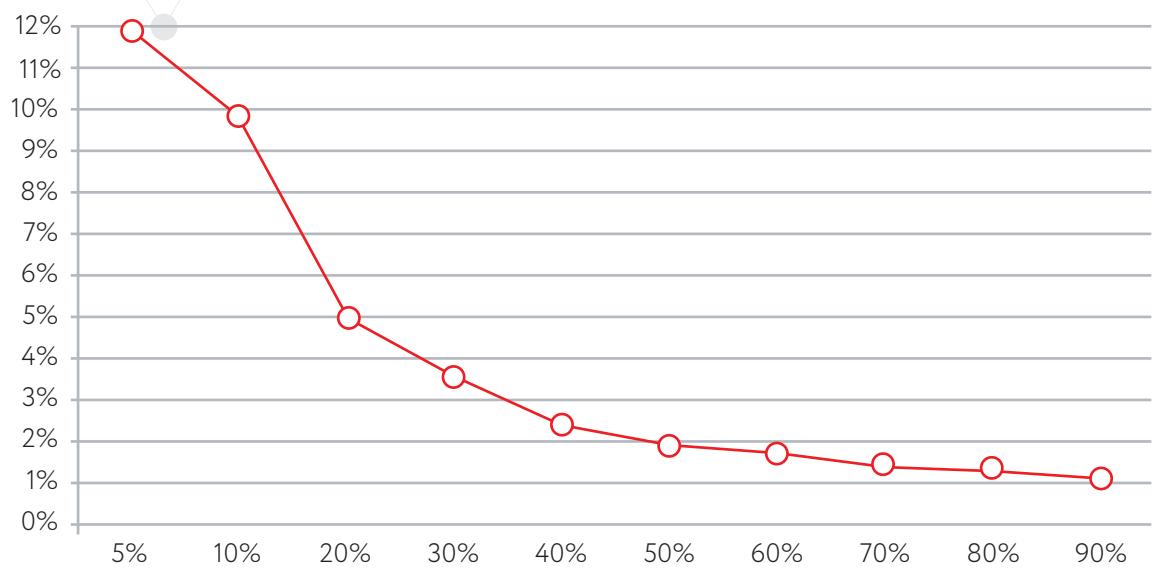
$$k_i = r_{i,deal} * K_{24}$$

$k_i$  – the size of the compensation payment for the i-th bidder on the transaction in question.

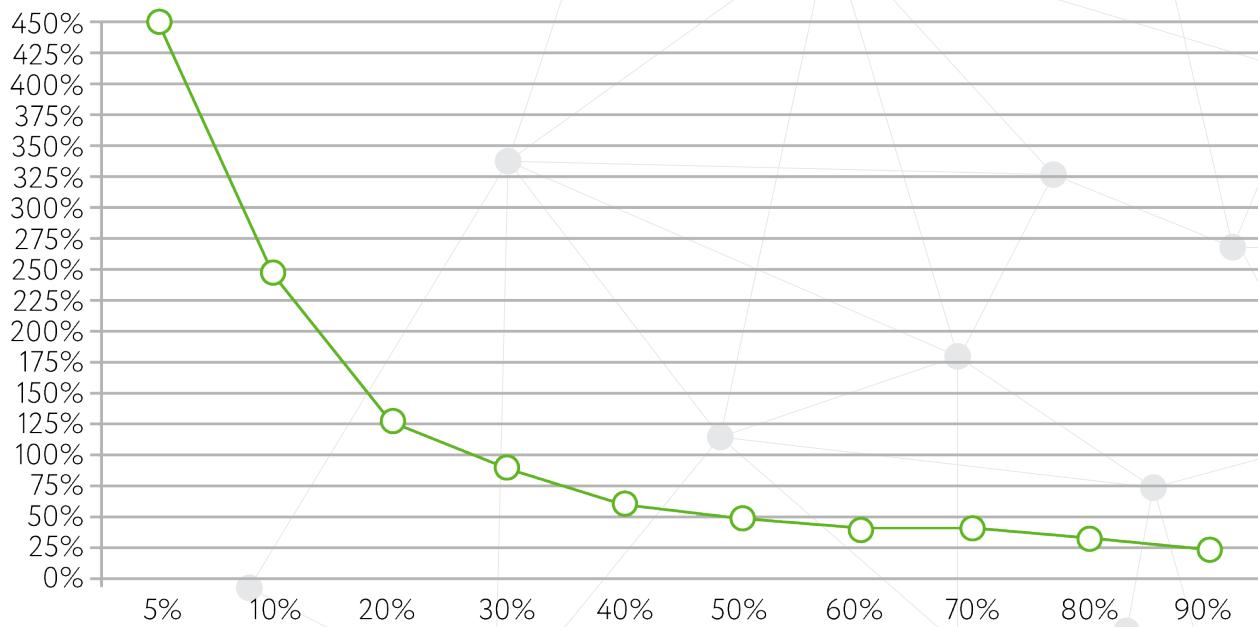
Graphs below illustrate the relationship between the percentage of transactions closed with loss and the percentage of the compensation fund that is payable to each trader. They reflect the results of the trading day simulation on the exchange.



In the chart below: horizontally - the percentage of transactions closed with a loss, vertically - the percentage of the compensation fund paid to each participant.



The third graph demonstrates the relationship between the size of the compensation payment to each participant (vertically) and the percentage of transactions closed with loss (horizontally).



Thus, based on the results of the simulation, it can be affirmed that the inequality:

$$k_i \geq 0,002 * a_i$$

is valid at 25% of transactions closed with a loss for bidders, provided that the stop loss function is at 0.002. This indicates that the user's losses will be fully covered.

In the event if 30% of transactions made within the 24-hour trading session will be unprofitable, each of the bidders will be compensated for 90% of the losses incurred, provided that the stop-loss function is at the level of 0.002.

In the future holders of TPX tokens will be able to use a unique algorithm aimed at minimizing potential losses.

When opening a transaction, our unique algorithm will begin calculating the amount of potential compensation for the selected currency pair for each bidder. Topex.io selects a real-time distribution function that best approximates the empirical data for the currency pair in question. Further, using the theory of extremal values, the distribution of the maximums of the time series under consideration is determined. This algorithm is combined with the stop-loss function and automatically closes the deal when the maximum allowable loss level, which can be compensated for this transaction, is reached.

The calculation algorithm underlying Topex.io was developed in 2009 and was originally used to create analytical tools for the stock and currency markets. With the emergence and development of the crypto-currency market, the emergence of a huge number of currency exchange and exchangers, the urgency of supplementing the mathematical models used by us with data on the quotations of major crypto-currencies has emerged.

Thus, we have a unique tool based on data collected during a long analysis of stock, currency and crypto-currency markets, a mathematical model that allows to determine with high accuracy the level of the maximum possible losses for all types of transactions, as well as automatic closing of the transaction at achievement of the target value of the function, which is the basis of the developed mathematical model.

## Security

Topex.io exchange not only offers a multifunctional financial instrument, but it is also one of the most secure exchanges, the security of which is based on a distributed method using neural networks.

When using services that store information about user accounts, wallets, etc. the most vulnerable part is information with passwords and keys from user wallets.

When storing information on the server, even in an encrypted form, there is a risk of compromising information in favor of intruders. At the moment, there are technological solutions that can protect data and ensure its anonymity.

We are planning to use multidimensional distributed technology of storing keys, passwords and personal data, used to work with the accounts of the exchange. Tables of hashes of keys and metadata are compiled. The hash tables are distributed to the servers as separate data segments. An encrypted tracker is used. Data segments stored on one server are not valuable, since they contain only a part of the information. When hacking even several servers, an attacker cannot get all the information keys, passwords and personal given user.

Each time a user requests a data, our system creates a channel with end-to-end encryption to the tracker and that user can access the account. In the operation of the access system, in addition to requesting credentials, a deep neural network is used. The neural network uses additional information about the device, IP address, activities. The neural network recognizes the signature picture of the user and provides security, if the signature picture is different from the usual one, access to the account is blocked. This method is an additional guarantor for authentication.

## Objectives

Topex.io solves one of the most important problems - **it reduces risks and all kinds of barriers when entering the crypto currency market.** The main purpose of the platform is to give an opportunity to everyone without exception, to invest in crypto-world, and try their trading opportunities without fear of major losses. All the functionality of the exchange is aimed at convenience and minimization of losses in trade. If you have a huge potential in trading with intuition and luck, then the Topex.io platform will provide a tool to unlock your possibilities that can not only make you rich, but allow you to help others to become rich too.

# TPX TOKENS

Topex Token (TPX) is a 100% useful token that brings profit to its owners, thanks to the commission charged by the exchange, when making deals and distributing it among holders of TPX tokens. Daily dividends will be distributed among wallets of tokens holders in percentage of all tokens placed on the exchange.

ICO will be implemented on the basis of Ethereum using smart contracts. Topex Token will be an ERC20 token.

## Possession of Topex Token (TPX) provides the following options:



Daily profit from the exchange's revenues;



Ability to subscribe to the actions of successful traders;



Ability to use Smart orders;



Get a unique opportunity to use the chart of price predictions from the team of analysts and the Topex.io platform analysis system.



Ability to participate in the voting to choose the further development path of the exchange.

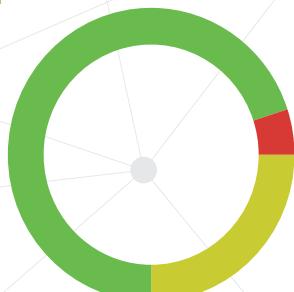
**The team of the Topex.io platform is interested in buying out TPX tokens at a market price and will buy out tokens monthly from those owners who will be ready to sell them.**

# ICO

Topex Token will be available for sale on **19 September 2018**. During the Public Crowdsale, **5000 TPX** tokens will be credited for **1 ETH**. Each stage of the sale implies additional bonuses. During the ICO we will sell **70%** of the total amount of tokens.

## Tokens distribution

**70%** of tokens will be sold out during the **Public Crowdsale**



**5%** of tokens will be distributed to the **Bounty campaign**

**25%** of tokens will be given to the **Topex.io team**

The exchange of tokens will take place in several stages.

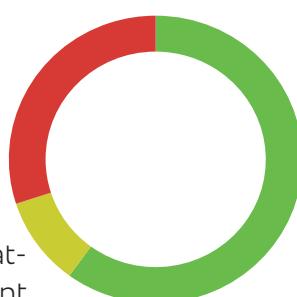
- The first stage of **Private-sale** will be available for **Angel investors** who will receive **40% of the bonus**.
- The second stage will be held for all comers within a month. The first week of the second stage will reward all investors with **30% of the bonus**. The second week will reward all investors with **20% of the bonus**. The third week will reward with **10% of the bonus**. During the last week **bonuses will be absent**.

**All tokens will be blocked until the end of the ICO.**

The exchange of tokens may end earlier if the maximum amount of dues is reached. The maximum set amount of dues is **20000 ETH or 10,000,000 \$** (equivalent to 1ETH = \$500).

## The plan for allocating the funds from the exchange of TPX tokens:

**30%** - Marketing  
**10%** - Rental of offices, and related equipment for development



**60%** - IT-development, configuration and support of servers, implementation of the roadmap.

# ROADMAP

Without careful planning and understanding of the overall concept, the project is difficult to implement. That is why we are so serious about every stage of the project development.

## Stage One

### **July - September 2017**

Idea of creating of Topex.io, analysis of competitors, need to create a project, search for a team, consultations with specialists in specialized fields.

### **October - December 2017**

Approbation of the idea, preparation of WhitePaper, development of the economic model and its description, team approval.

### **January - March 2018**

Topex.io website development, registration in social networks, development of personal account and bounty campaign.

### **April - June 2018**

Development of the legal part of the project and search for a country with legal regulation for the registration of a company with the status of limited liability.

### **July - October 2018**

Announcement of the project. Pre-marketing among early investors. Preparation for the ICO.

## Stage Two

### **November 2018 - January 2019**

Development of a full-fledged exchange platform with a minimal functional set, debugging of the system, verification of security systems.

### **February - April 2019**

Announcement of the first beta version of the platform with a minimum set of trading pairs, beta testing, debugging of the loss compensation system.

### **May - July 2019**

Release of the Topex.io trading platform, as a full-fledged financial instrument for the exchange of crypto currency.

### **August - October 2019**

Development of social tools for traders.

### **November 2019 - January 2020.**

Development of a system for analyzing rise or fall of prices in the crypto-currency market.

# CONCLUSION

We have seen a large number of websites offering services for the exchange of crypto-currencies in recent years and they all are similar to each other. However, the analysis of people who use crypto-currency showed that they all seek to find a universal exchange that can be trusted and easily manage their finances in several crypto-currencies simultaneously, have access to general information of traders and monitor market capitalization.

People who use crypto-currencies need a platform that is suitable for carrying out various transactions, purchases or sales of crypto-currencies, which could completely change their understanding of crypto-exchange exchanges. It is this task Topex.io solves - a platform for the exchange of crypto-currency, with compensation for losses and the daily distribution of profits between holders of TPX tokens.

Work of the Topex.io team is aimed at finding and attracting like-minded people who provide many opportunities for exchange trading, crypto-currency exchange, and much more.