

# WHITEPAPER 1.0

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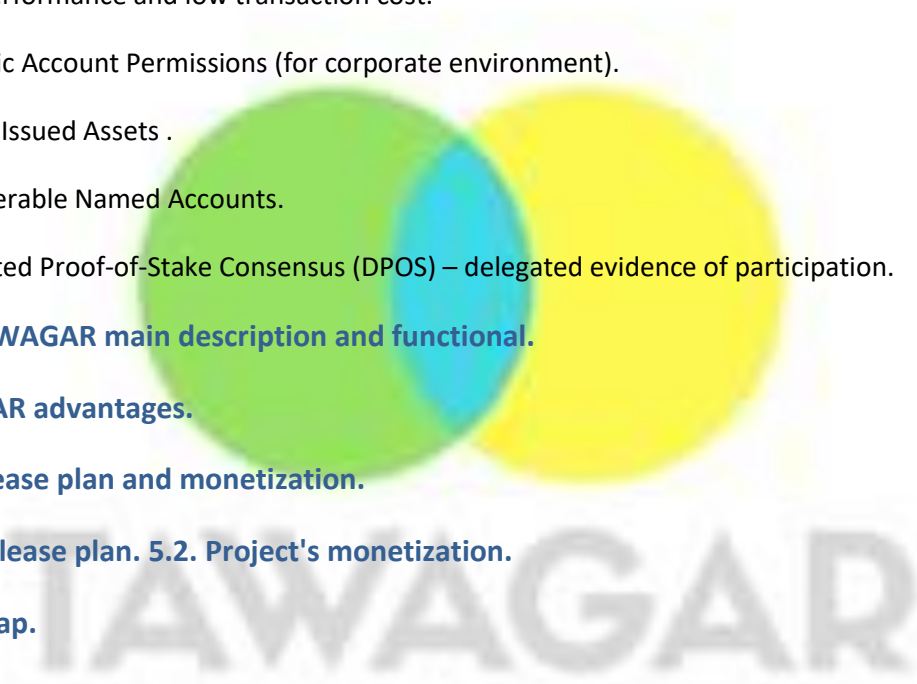
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## Forewords

*This document describes the project of a decentralized Tawagar cryptocurrency exchange. It's a trading platform of a new generation with the key idea of combining the best innovative solutions for modern cryptocurrency exchanges which will become the drivers for the whole cryptocurrency world in the near future. After the successful implementation Tawagar has the potential to transform from a highly efficient crypto exchange to a global financial ecosystem that can effectively «live» in two worlds – the traditional and digital, gradually erasing the line between them. Tawagar functionality based on the most modern blockchain platform Tawagar 1.0 By the first time Tawagar will use the ready-made engine of the Tawagar exchange. The second stage of the project development is connected with the creation of its own engine for Tawagar on the 1.0 platform with its own nodes and a global cryptocurrency (token) similar to TWG.*

## WHAT IS TAWAGAR

*Tawagars is a technology supported by next generation entrepreneurs, investors, and developers with a common interest in finding free market solutions by leveraging the power of globally decentralized consensus and decision making. Consensus technology has the power to do for economics what the internet has done for information. It can harness the combined power of all humanity to coordinate the discovery and aggregation of real-time knowledge, previously unobtainable. This knowledge can be used to more effectively coordinate the allocation of resources toward their most productive and valuable use. Bitcoin is the first fully autonomous system to utilize distributed consensus technology to create a more efficient and reliable global payment network. The core innovation of Bitcoin is the Blockchain, a cryptographically secured public ledger of all accounts on the Bitcoin network that facilitates the transfer of value from one individual directly to another. For the first time in history, financial transactions over the internet no longer require a middle man to act as a trustworthy, confidential fiduciary. Tawagar looks to extend the innovation of the blockchain to all industries that rely upon the internet to provide their services. Whether its banking, stock exchanges, lotteries, voting, music, auctions or many others, a digital public ledger allows for the creation of distributed autonomous companies (or DACs) that provide better quality services at a fraction of the cost incurred by their more traditional, centralized counterparts. The advent of DACs ushers in a new paradigm in organizational structure in which companies can run without any human management and under the control of an incorruptible set of business rules. These rules are encoded in publicly auditable open source software distributed across the computers of the company's shareholders, that effortlessly secure the company from arbitrary control. Tawagar does for business what bitcoin did for money by utilizing distributed consensus technology to create companies that are inherently global, transparent, trustworthy, efficient and most importantly profitable.*

## CONSENSUS TECHNOLOGY

Consensus is the mechanism by which organizations of people decide upon unitary rational action. While not considered technology in the traditional sense, consensus “technology” is the basis of democratic governance and the coordination of free market activity first coined by Adam Smith as the “Invisible Hand.” The process of consensus decision-making allows for all participants to consent upon a resolution of action even if not the favored course of action for each individual participant. Bitcoin was the first system to integrate a fully decentralized consensus method with the modern technology of the internet and peer-to-peer networks in order to more efficiently facilitate the transfer of value through electronic communication. The proof-of-work structure that secures and maintains the Bitcoin network is one manner of organizing individuals who do not necessarily trust one another to act in the best interest of all participants of the network. The Tawagar ecosystem employs Delegated Proof of Stake in order to find efficient solutions to distributed consensus decision making

## DISTRIBUTED AUTONOMOUS COMPANIES

*Distributed Autonomous Companies (DAC) run without any human involvement under the control of an incorruptible set of business rules. (That’s why they must be distributed and autonomous.) These rules are implemented as publicly auditable open source software distributed across the computers of their stakeholders. You become a stakeholder by buying “stock” in the company or being paid in that stock to provide services for the company. This stock may entitle you to a share of its “profits”, participation in its growth, and/or a say in how it is run.*

## COMMUNITY

*The Tawagar community is a global network of people who all share the same goal of creating and participating in various Distributed Autonomous Companies. The community mainly revolves around the Tawagar Team and third parties who use 1.0 (the toolkit that makes Tawagar possible) to create their own Distributed Autonomous Companies. The main discussions in the Tawagar community takes place openly at [Tawagar.exchange](https://Tawagar.exchange)*

# 1. Introduction.

## 1.1. The cryptocurrency market today.

*By our opinion the cryptocurrency market now is in the stage of "volatile growth", which began in late 2016 and most likely will continue in medium perspective. Sharp price fluctuations and correction are the natural state for this stage of development. We believe that cryptocurrency market is not an accidental phenomenon and it is based on fundamental factors, which is confirmed by the eight-year history of development which began in 2009 when Bitcoin - the cryptocurrency which change the usual means of payment and digital transactions – has appeared. Over the last 8 years Bitcoin and other cryptocurrencies only by the fact of their existence and growing distribution refuted many negative forecasts, opinions and assessments. They debunked some of the myths about their insolvency, the lack of prospects and the impossibility of changing global financial relations. Over the mentioned period of time many alternative cryptocurrencies appeared. Many of them are embodying completely different ideas and fundamentally new concepts of economic ties. There is a gradual official legitimization of the legal status for cryptocurrencies and the integration of digital transaction elements into the traditional economic systems According to a study made by the British company Juniper Research in the end of 2017 the volume of transactions on the cryptocurrencies market could have surpassed the \$1 trillion and it is very possible that this mark will be reached in the coming days of 2018 (by January 7th, 2018 capitalization already reached \$832 billion). The only aspect in which experts can't agree between themselves yet is the assessment of the scale and prospects of the new market. Some of them are pushing out bold and fast growth forecasts while the others are more conservative and insist on gradual integration into the world economy. But all experts have a common opinion in only one thing - this market is at the initial stage of realizing its potential and has a great prospect of further development, exceeding the current levels by dozens of points. Based on these and many other factors and assessments, it is possible to come to a very concrete conclusion - staying away from this market means to standing still without seeing the prospect and to lose the profit which is now is on its maximum level by the point of view of the market in the initial stage of growth. Cryptocurrency market is developing rapidly in many different directions, so it is very difficult to predict the profitability of a project in advance. However, we see the most profitable strategy in organizing and creating our own crypto exchange platform, which will unite different cryptocurrency segments and will become a demanded trading mechanism for all participants - from traders to housewives. It is suitable for a variety of tasks and will be able to solve many tasks regardless of the specific user's activities and needs.*

## 1.2. Cryptocurrency exchanges description.

*At the present moment there are two types of exchange platforms – centralized and decentralized. The main differences between them are the following:*

- **Centralized Exchange.** *All the main decisions are made by one governing body (center) and all participants depend on these decisions and almost never can affect them. Participants must keep their funds in the Exchange's wallets.*

• **Decentralized Exchange.** It does not have a single decision-making center by all issues. It provides all participants with equal conditions and provide a platform where they can trade directly with each other. Centralized Exchanges provide high margin and volatility of cryptocurrencies and tokens courses. They are easy to use, have easy access and provide advanced trading functions, such as margin trading, stop-loss, lending and others. As examples of centralized crypto exchanges we can name the well-known sites, such as Poloniex, Kraken, Bittrex, BitFinex, BitStamp, BTC-E. Decentralized Exchanges is a fairly new phenomenon in the cryptocurrency world, most fully revealing the ideology of decentralized blockchain where all participants have an equal rights and opportunity to take part in the management of the Exchange's activities and to perform any operations of cryptocurrencies exchanging among themselves, holding money in a personal wallet but not in a third party's wallets (as it realized in centralized Exchanges). Their very important advantage is the highest degree of data confidentiality.

### 1.3. Decentralization is the modern trend.

Depending of many reasons centralized Exchanges are still very popular, because they offer customers a "ready" wide functionality, accumulated as a result of many years of practice. The centralized Exchanges have only one serious drawback, which, to our great regret, based on its fundamental nature and plays an increasing role in the modern cryptocurrency world. This disadvantage is centralization, which is the main essence of these platforms. 4 The centralized system is exposed to risks by the following important indicators:

- **Security.** There is a clear center where beat attackers. The total amount of funds abducted by hackers, starting with the history of MtGox, Bitfinex, etc., is estimated at hundreds of millions of dollars.
- **Unfair competition.** Example with BTC-E and A. Vinnik, accused of fraud, theft and money laundering through BTC-E.
- **Danger of sanctions.** Under the influence of US sanctions many customers from the countries in which these sanctions apply, can't withdraw their money from the Poloniex Exchange.
- **Political risks.** The recent sharp change in China's policy towards ICO and cryptoexchanges in Beijing. This list can be continued and continues with examples from the recent past but most of all it is alarming that this list will be updated in the future. Proceeding from the foregoing it is necessary to ask an important question that sooner or later arises before each participant of the cryptocurrency market. How to protect yourself and minimize the risks of losing invested money? Is it worth the "old habit" of centralized exchange of probability to lose all at once? By our opinion the answer to this question is quite obvious - the transition to a decentralized trading platform without all the risks described above and without a long list of challenges inherent in centralized exchanges. We suggest that one of the most advanced platforms for creating a decentralized exchange is the Tawagar 1.0 platform, that's where we create the multipurpose decentralized Exchange - Tawagar. At the first stage it is planned to build the system on the existing Tawagar Exchange engine. Next we will develop its own engine on Tawagar 1.0 for Tawagar with its own nodes and a global coin (token) similar to Tawagar (Tgw).

## 2. Tawagar - the basic functionality of TWG.

*Tawagar 1.0 is a high-tech, decentralized, blockchain based platform which allows to create highly efficient financial "smart contracts" for all areas of economic activity that are used in global Internet space to provide services.*

***The Tawagar 1.0 platform gives users a variety of undeniable advantages:***

- *Decentralization;*
- *High performance - up to 500,000 transactions per second;*
- *Cryptocurrencies trading with a stable price (Tawagar / SmartCoin);*
- *Dynamic Account Permissions (for corporate environment);*
- *Recurring & Scheduled Payments - periodic and planned payments;*
- *Referral rewards program;*
- *User-Issued Assets (UIA) – an assets created by the platform participants;*
- *Transferable Named Accounts – natural account names;*
- *Delegated Proof-of-Stake Consensus (DPOS) - Delegated Proof of Participation.*

### 2.1. Decentralization.

*Decentralization provides very high level of stability in case of accidental failures and deliberate attacks by intruders. In case the work of the centralized exchange is violated the consequences simultaneously affect all its participants. In a decentralized exchange, any cyber-attack or failure affects only one user or a small group of users but not all participants. According to the developers, to preserve the efficiency of the Tawagar network it is enough to keep at least two computers functioning since each individual computer on the network contains a full copy of the of the entire network database.*

### 2.2. High performance and low transaction cost.

*The Tawagar 1.0 platform allows data processing speeds of up to 500,000 transactions per second (at the level of centralized Exchanges) which makes it possible to perform instant operations in real time mode (maximum delay time is calculated in seconds, not hours like for other cryptocurrencies). By the number of transactions Tawagar 1.0 is significantly ahead of Visa or MasterCard networks (their speed is about 20,000) and even the number of "transactionsreactions" (likes, posts, etc.) of Facebook users (about 52,000). This is more than Bitcoin and Ethereum networks ever show together. The largest number of transactions recorded in the Bitcoin network did not exceed 322,000.*

### **2.3. Dynamic Account Permissions (for corporate environment).**

*Each account can be controlled by any valid combination of accounts (users) and private keys. This creates a hierarchical vertical structure model that reflects the methods of organizational control from real life and simplifies the management (control) of several users over the means of general regulation. Multiuser control is a significant contribution to overall security and with proper use it can almost eliminate the risk of money theft due to the hacking of a single account.*

### **2.4. User – Issued Assets .**

*Assets created by platform participants. This function helps participants to raise additional funds to finance profitable business projects by creating their own user token registered by the platform which can be stored and sold with certain restrictions. The creator of such an asset publicly names, describes, distributes and can indicate any individual restrictions such as a white list of accounts that can store tokens or carry out an associated trade and transfer fees.*

### **2.5. Transferable Named Accounts.**

*Use of natural words to indicate the account's name instead of long and nonmemorable characters as it done in the Bitcoin network. Each name is unique, and that excludes any risks of its substitution.*

## **3. The TAWAGAR main description and functional.**

*The TAWAGAR.0 platform allows to implement the following main functional of the Tawagar Exchange:*

- *Creation of a secure cryptowallet which allows to transfer funds with a minimum commission for all counterparties;*
- *Buy and sell cryptocurrencies and tokens; 9*
- *Create your own crypto assets and trade them;*
- *Make investments by buying tokens from prospective companies and participating in the distribution of expected profit;*
- *Create an ICO mechanism (primary coin/token placement)*
- *Ensure the highest security and reliability of all transactions in the blockchain network through the DPOS algorithm;*
- *Create accounts with escrow;*
- *Use special gateways (Gates) as mechanisms for transferring funds between different trading platforms and payment systems for fiat funds input/output.*



## 4. Tawagar advantages

- *A platform for safe ICO conduct in conjunction with the decentralized escrow toolkit from descrow.org. TAWAGAR will be used as a platform for prospective project's ICO, our specialists will carry out full project analysis, help them to receive funding from a permanent pool of private investors and further conduct pre-sale and large-scale ICO. TAWAGAR tokens investors will receive a share of revenues from all ICOs;*
- *A platform for creating a decentralized transparent blockchain system for cryptofund managed by TAWAGAR professional traders and issuing an appropriate stock token with automatic placement on both all TWG-Exchanges and leading centralized cryptocurrency Exchanges;*
- *Cryptocurrency debit cards linked to users' wallets on TAWAGAR and integration into fiat gateways, allowing to convert cryptocurrency into fiat when paid by card in outlets;*
- *API for the integration of third-party applications and services with the TAWAGAR platform;*
- *Creation of the own agent network of crypto ATMs for the purchase and sale of cryptocurrency for fiat money with the ability to work with bank cards.*

## 5. ICO release plan and monetization.

### 5.1. ICO release plan.

- 1. The ICO will take place in several stages. At the first stage the key token of the TAWAGAR.CORE ecosystem will be distributed. Distribution of digital tokens TAWAGAR.CORE will be automated through EOS blockchain technology without human intervention, which excludes financial manipulation, fraud, external interference, errors and possible mutual claims*
- 2. The base token value connected with US Dollar price and is set at \$ 0,05.*
- 3. Funds will be collected through the ETH smart contract as well as through ETC, Doge, Bitcoin, DASH coins.*
- 4. All digital tokens will be placed on the Openledger.io and RuTWG decentralized Exchanges as well as on our partner's platforms in Southeast Asia.*
- 5. Token will be issued on Tawagar blockchain.*

The primary Tawagar.CORE tokens share will be the following:

**Total Supply: 60 000 000**

**Reserved for presale & ICO participants : %75 (45 000 000)**

**Reserved for Devolepers Team : %15 (9 000 000)**

**Reserved for Advisors : %7(4 200 000)**

**Reserved for Bounty & PR : %3(1 800 000)**

## **6. Road Map.**

**May 10th, 2018**

*MVP launch and TAWAGAR testing on the Tawagar base engine*

*The main ecosystem token TAWAGAR.CORE ICO launch the first project in our ecosystem*

**June 7th, 2018**

*Legal entity registration for Tawagar in Singapore*

**Now 29th, 2018**

*Ico Start*

**Dec 11th, 2018**

*Branded cryptocurrency Market DEBIT PAYMENT CARD instalation launch in Denmark, Turkey, Sweden, England, Belguim, Italy, Malta ,Netherlands, Cyprus, Greece, Italy, Portugal, Brazil, Bulgaria*

**Dec 29th, 2018**

*ICO FINISH*

**Feb 1th,2019**

*TAWAGAR becomes a decentralized ecosystem including TWG encryption, ICO platform, decentralized deposit, Market Debt Payment Card.*

**Feb 5th, 2019**

*Coinmarketcap ta to be listed*

**Feb 17th, 2019**

*Bitfinex, Kraken, ShapeShift, Poloniex to be listed in stock exchanges*