

TOKPIE

P2P CRYPTOCURRENCY-FIAT AND SWAP EXCHANGE

Whitepaper

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1. EXECUTIVE SUMMARY

With the growing popularity of cryptocurrencies, millions of people around the world are creating digital wallets and starting to trade virtual assets. The goal of any crypto-trader (whether amateur or experienced) is to flourish.

Therefore, traders need to find an exchange which provides the highest level of safety and privacy, allows buying and selling of crypto-assets for transparent (best and fair) prices with minimal commissions, and has excellent support with positive feedback.

Choosing the 'right' digital currency exchange (DCE) is crucial to achieve this goal.

Today, buyers and sellers of crypto-assets typically trade through four types of exchanges:

1. Brokers or Brick-and-mortar DCE
2. Centralized DCE
3. Decentralized (DEX)
4. Peer-to-peer or Over-The-Counter exchanges (P2P/OTC).

Each type of exchange has strengths and weaknesses. An ideal digital currency exchange would combine the strengths of every exchange, while avoiding any drawbacks. The TOKPIE platform was designed with this goal in mind.

TOKPIE is a unique peer-to-peer (P2P) Cryptocurrency-Fiat and Swap Exchange designed to help people across the world to buy and sell any crypto-assets for transparent prices nominated in any local currencies or altcoins, using any payment method, FREE of charge, safely and easily.

By encapsulating different locations, currency pairs (crypto/fiat and crypto/crypto), and payment methods into unique tradeable instruments, TOKPIE supports peer-to-peer real-time auctions, price charting gears, price alerts and many other sophisticated tools, which are not provided by traditional crypto exchanges.

All of the above help both new and experienced traders obtain the cheapest, safest and most efficient way to buy and sell cryptocurrencies anywhere in the world using local currency or other crypto-assets.



2. MAIN GOALS AND CONCERNS

Whether you're just getting started with crypto-assets (Bitcoins, Ether or any altcoins) or you're a mature trader, your main goal is to trade successfully for a profit.

To reach this goal you need an exchange (channel or intermediary) for buying and selling crypto. According to our research (comprising 82% of respondents to a survey on the Bitcointalk forum), the main concerns for cryptocurrency traders are:

- * Security, privacy and reliability
- * Fees and commissions charged
- * Ability to trade for the best prices
- * Excellent customer support

There are also other important considerations when selecting a cryptocurrency exchange, including ease of use, favorable regulatory environment in the exchange's country of registration and the availability of leverage or derivatives for trading.

Our research also found that traders are not happy with the support provided by the existing exchanges. They don't trust in the exchanges' security because of recent successful hacking attacks on high volume exchanges.

The high fees charged by popular exchanges, as well as withdrawal limits and hidden commissions, are also cited as reasons for dissatisfaction. Additionally, crypto traders are unhappy with the high spreads between bids and asks, which make it difficult to get good prices.

To fulfill their goals, traders are constantly searching for a secure, support friendly, inexpensive and more efficient channel to buy and sell crypto-assets



3. EXISTING SOLUTIONS

In this section we cover the most popular types of intermediaries; brokers, centralized, decentralized and P2P digital currency exchanges.

Each channel has strengths and drawbacks, as shown in Table 1, and discussed in the following section.

Ideally, the intermediary must support full security, privacy and be reliable; otherwise traders are putting their money at risk.

An effective intermediary must provide excellent support, so that people can resolve any issue they face during the process of trading. This is especially important because new users are coming into the crypto market every day.

Best practice in customer satisfaction requires an intermediary to work with the lowest fees on the market. The term fees shall include all commissions applied on deposits, withdrawals and trading volume. There should not be any hidden fees and/or limits on withdrawals.

Finally, an intermediary should give its users an ability to get the best prices for buying and selling crypto-assets, which means that an exchange should support, not only fair trade with transparent prices, but also high liquidity, low spreads, sophisticated technical analysis tools, price alerts, etc.

3.1 Brokers

In today's market, brokers are a mix of online and brick-and-mortar entities. Sometimes a broker is called a market maker. This type of 'exchange' represents a place (or Bitcoin ATM) where clients can visit, make a payment in local fiat cash and buy or sell their Bitcoins. Similarly, the exchange can be made online through local instant online payment methods or online wallets.

Strengths: Very simple to use, user-friendly.

Weaknesses: Extremely high fees (up to 9%) make this type of intermediary very costly. There can be a lack of support and an inability to obtain the best price or to bargain on price. Security varies depending on feedback history and country of location.

Outcome: Brokers have a role facilitating the buying and selling of cryptocurrencies easily, but the costs of this service are very high. In our research the average weighted score is 2.4 out of 5.



3.2 Centralized Exchanges

Centralized digital currency exchanges (DCE) are the most popular type of exchanges allowing users to buy, sell and trade Bitcoin and other popular altcoins at any time, some with traditional fiat payment options.

Traders can store their cryptocurrency on these exchanges. DCEs differ from other types of intermediaries by requiring buyers and sellers to deposit their fiat money or crypto-assets before trading and confirming users' identities via various forms of official ID.

Strengths: User-friendly interface; leverage and liquidity; better prices for buying and selling because of relatively low spreads between bids and asks.

		Brokers		Centralized exchnages		Decentralized exchnages		P2P exchanges	
Traders concerns	Weight	Score	Weighted score	Score	Weighted score	Score	Weighted score	Score	Weighted score
Security, privacy, and reliability	44,7%	3	1,34	1	0,45	5	2,01	4	1,79
Fast support service	14,3%	2	0,29	3	0,43	2	0,29	2	0,29
Fees and commissions	12,7%	1	0,13	3	0,38	4	0,51	4	0,51
Ability to trade for the best prices	10,6%	1	0,11	5	0,53	3	0,32	4	0,42
Ease of use	8,9%	5	0,45	5	0,45	2	0,18	3	0,27
Crypto-favorable country of Exchange's registration	5,3%	2	0,11	3	0,16	5	0,26	4	0,21
Availability of leverage or derivatives for trading	3,5%	1	0,04	5	0,18	1	0,04	1	0,04
Total Weighted score		2,45		2,57		3,60		3,52	
Score index		100,00%		104,88%		147,19%		143,85%	

» Table 1. Types of crypto exchanges valued with weighted rating scores (from 1 to 5)

Weaknesses: Vulnerable to strict government regulations; vulnerable to hacking; many exchanges are lacking in customer service; relatively high fees for the ordinary trader.

Outcome: Despite the ease of use, liquidity and provision of sophisticated tools for getting the best prices, centralized exchanges provide minimal client support. The fact that they are a clear target for hackers, together with an unpredictable regulatory environment, makes this type of exchange the most unsecure for cryptocurrencies trading. The average weighted score is 2.6 out of 5.



3.3 Decentralized Exchanges

A DEX or a decentralized exchange represents a marketplace, which does not rely on a third-party service to hold the customer's funds. Instead, trades occur directly between users (peer-to-peer) through a semi-automated process.

This type of exchange works through a decentralized multi-signature escrow system or by creating crypto-assets that represent a certain fiat or crypto currency.

Strengths: High level of security because of an absence of a central server; anonymity; low fees; independent of country of registration.

Weaknesses: Only crypto-to-crypto trades are supported; difficult to use; user unfriendly; vulnerable to phishing attacks on domains; only crypto-to-crypto trades are supported.

Outcome: Decentralized exchanges support a higher level of security and anonymity than centralized exchanges. However, users of DEXs become frustrated with the maze of smart contracts they must navigate to begin trading.

Crypto traders need to transfer funds back and forth from personal wallets to an exchange wallet every time they want to trade. If, for example, the Ethereum network is congested, users may face, at best, higher transaction fees or, at worst, a buggy, unresponsive trading system.

Finally, the inability to buy crypto-assets for fiat money makes this type of exchanges less attractive for crypto newbies. The average weighted score is 3.6 out of 5.

3.4 P2P Exchanges

Peer-to-Peer exchanges are software platforms developed to match buyers with sellers through advertising. Some traders prefer this type of exchange because it represents the highest level of safety for their fiat (EUR, USD, GBP, etc.) funds which cannot be frozen or held by regulators.

An ordinary P2P exchange doesn't touch clients' fiat money. Instead it acts as a guarantor by holding a seller's crypto-assets in a secure cold storage wallet and depositing it into the buyer's account after receiving the payment confirmation.

Strengths: High security because there is no fiat storage; relatively low fees; users can buy cryptocurrency for local fiat money.

Weaknesses: Complex matching process; low speed of transactions, virtually no support; lack of functionality and efficiency; not suitable for exchange of crypto-to-crypto-assets.

Outcome: The most obvious advantages of P2P crypto exchanges are the absence of high fees and their inherent security. However, this type of intermediary does not provide traders with an adequate level of support when compared with centralized exchanges despite this being one of the most important concerns for every trader.

The speed of transactions is slow and there is less functionality than in centralized exchanges that makes it difficult to obtain fair prices. The average weighted score is 3.5 out of 5.



4. INTRODUCING TOKPIE

An ideal cryptocurrency exchange platform would combine the strength of every channel described in previous sections, while avoiding the drawbacks. TOKPIE was designed with this goal in mind, as shown in Table 2. The average weighted score is 4.7 out of 5.

TOKPIE is a **unique Peer-to-Peer Cryptocurrency-Fiat and Swap Exchange aimed at helping cryptocurrency traders across the world achieve their desired outcome in the most secure, inexpensive, user-friendly and efficient way**. Besides its core value proposition, TOKPIE empowers users with sophisticated features and has unlimited scalability for implementation in different use cases.

The following sections describe TOKPIE's platform in detail with screenshots taken from its **MVP (Alpha 1.0)** that will go live in May 2018.

4.1 Transparent Prices and Efficiency

TOKPIE's concept of encapsulating (Table 1) the main trading parameters such as country, base cryptocurrency, quote currency (fiat or coins or tokens) and method of payment into **unique tradeable instruments** gives users exclusive, all-in-one tools for successful and profitable peer-to-peer trading.

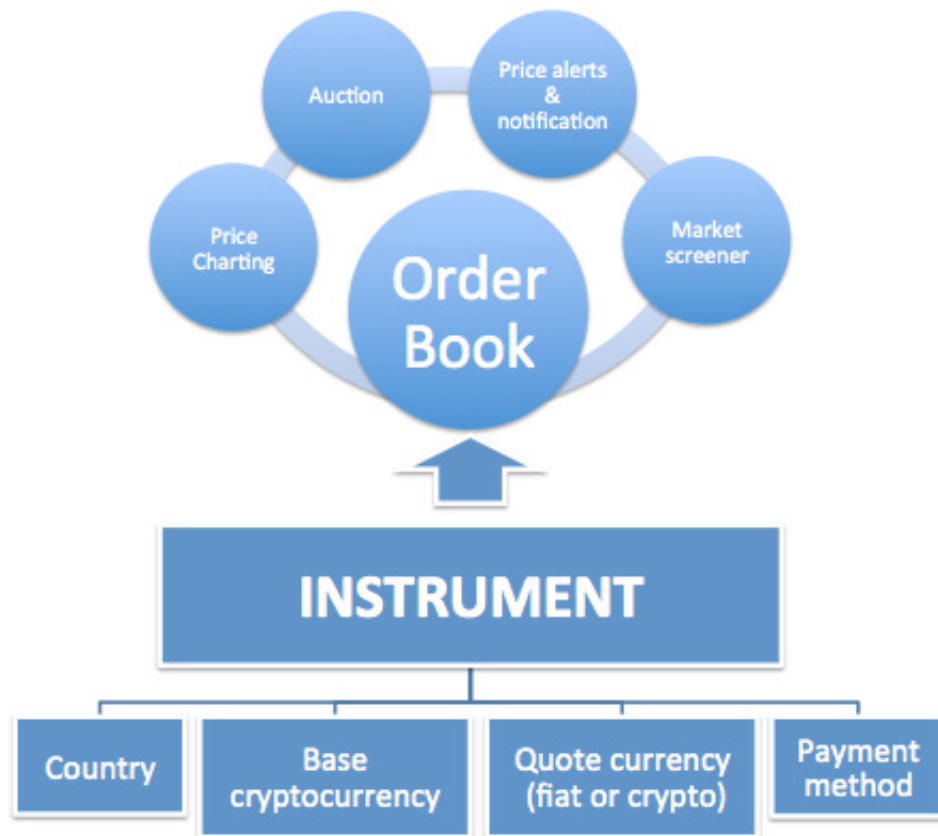
Thanks to TOKPIE's tools users will benefit from high liquidity and an ability to bargain on price.

Traders concerns	Weight	Score	Weighted score
Security, privacy, and reliability	44,7%	4,5	2,01
Fast support service	14,3%	5,0	0,71
Fees and commissions	12,7%	5,0	0,64
Ability to trade for the best prices	10,6%	5,0	0,53
Ease of use	8,9%	4,0	0,36
Crypto-favorable country of Exchange's registration	5,3%	5,0	0,26
Availability of leverage or derivatives for trading	3,5%	5,0	0,18
Total Weighted score		4,69	
Score index		191,58%	

» Table 2. TOKPIE valued with weighted rating scores (from 1 to 5).



The basic tools, which will be ready in Alpha 1.0, include real-time auctions organized in order books, price charting, price alerts and notifications, watchlist, top 10 movers, top 10 markets, and spread analysis for instant arbitrage trading. The main goal of the basic toolset is to attract liquidity and allow users to identify perfect market conditions and to trade with the best and fair prices. With TOKPIE, both new and experienced crypto traders (or companies) can engage in P2P (or B2B) trading through real-time auctions on the decentralized exchange platform.



» Schema 1. Concept of encapsulation (basic application)

In stage 1 of the platform's implementation, it is partly decentralized because it holds clients' crypto-assets as collateral in the platform's cold storage area. In future versions, the decentralized blockchain will be implemented for locking clients' assets in a mutual (client-platform) way and for booking all executed transactions in the decentralized post-factum public Ledger.

Each auction represents the Order Book filled with orders to buy (bids) and sell (asks) a specific instrument.

Basically, each instrument is a unique combination of:

- Country- Base cryptocurrency
- Quote currency (fiat or crypto)
- Method of Payment

For example, the order to buy Bitcoin for US dollars using a Domestic Wire Transfer from the USA is automatically published in the Order Book of the related unique instrument: [United States - BTC@USD - Domestic Wire Transfer] and can be traded in a non-stop, simultaneous two-sided auction as shown in screenshots 1 and 2.



In the same way, **the user can instantly buy and sell (swap) their crypto-assets for any (even cross blockchain) cryptocurrency, referred to as a zero-fee, atomic cross-chain transaction.**

This transaction can be made for a transparent price in a non-stop, simultaneous two-sided auction organized in the related instrument. For example, a user can buy Litecoin for Monero through related instrument [SWAP – LTC Litecoin@XMR Monero – SWAP]

TOKPIE's Alpha 1.0 supports 677,950 unique instruments representing all possible combinations of 226 countries, 3 base crypto-assets, 32 quote currencies (20 fiat and 12 crypto), and 33 payment methods. Finally, TOKPIE will include the most tradeable crypto-assets and fiat currencies existing in the world and all popular payment methods.

The unique concept of 'encapsulating into instruments' delivers features and functionality not found in any other type of exchange, as detailed in the following section:

4.1.1 Strike a Perfect Trading Deal

The 'Submit Order' tool (Screen 1) allows users to anonymously publish sale offers or purchase requests, bargain on price during continuous two-sided auction, and match with counter-parties in order to securely complete the transaction. The New York Stock Exchange is an example of a continuous two-sided auction. Traders can bid and ask in either direction as much or as often as they want, 24 hours a day, 365 days a year.

Pick

Country: United States

Base cryptocurrency: BTC

Quote currency (fiat or crypto): USD

Payment method: Domestic Wire Transfer

Submit order

You want to:

Quantity:

From 0.015, step 0.0001

Price per 1 (one) base cryptocurrency exchanged for (USD):

From 1.00 to 1000000000.00 USD

Order Book

Updated: 22-MAR-18 00:23:14

BID	Price	ASK
--	--	--
--	--	--
--	--	--
10159.00 USD		4.00
10149.00 USD		1.30
10130.00 USD		0.50
9950.00 USD		2.20
1.70	9410.00 USD	
0.09	9389.00 USD	
1.18	9349.14 USD	
0.09	9308.00 USD	
2.00	955.00 USD	
1.10	950.00 USD	
--	--	
--	--	
--	--	

← Here is your order published

Last 3 orders matched

Date	15-MAR-18	11-MAR-18	10-MAR-18
Quantity	0.09	1.00	0.02
Price	9450.00 USD	9900.00 USD	9600.00 USD

» Screen 1. Order submission thread for the Instrument [USA - BTC@USD - Domestic Wire Transfer] _TOKPIE's Alpha 1.0.

4.1.2 Know the Depth of the Market

The Order Book (Screen 2) shows the best ask/bid prices and volumes available for the trade at that moment in a particular instrument (a unique combination of country, base and quote currency, and payment method).



Order Book		
Updated: 21-MAR-18 22:32:58		
BID	Price	ASK
	--	--
	--	--
	--	--
	10159.00 USD	4.00
	10149.00 USD	1.30
	10130.00 USD	0.50
	9950.00 USD	2.20
0.09	9389.00 USD	
1.18	9349.14 USD	
0.09	9308.00 USD	
2.00	955.00 USD	
1.10	950.00 USD	
--	--	
--	--	
--	--	

» Screen 2. Order book for the Instrument
[USA - BTC@USD - Domestic Wire Transfer] _
TOKPIE's Alpha 1.0.

4.1.3 Check and Predict Prices

The 'Price Charting' tool (Screen 3) allows users to always be informed about current trends. It shows prices and volumes based on the history of all matched deals. Traders can also predict future prices in a particular country and payment method by drawing trend lines, applying indicators, and using all other technical analysis features in the related instrument thread. In future releases it will be possible to compare and analyze different instruments in one price chart.



» Screen 3 Price charting tool for instrument [United States - BTC@USD - Domestic Wire Transfer] _TOKPIE's Alpha 1.0.



4.1.4 Discover Where to Buy and Re-Sell For the Highest Profit Margin

Regardless of which crypto-fiat pair a user wishes to trade, the 'Spread Analysis' tool (Screen 4) spots real-time trade opportunities to purchase in one country, using one payment method and re-sell in another for the largest profit margin. This is a uniquely useful solution for traders who have fiat money accounts in different countries and payment systems.

Market screener

[TOP 10 movers](#) [TOP 10 markets](#) [A-B - analysis](#)

A-B	Country	Pair	Payment method	Submit order	Set Price Alert	Set Notification	Bid	Ask	Spread	Exchange Rate
buy here	Estonia	BTC@EUR	Square Cash	Place order	Set Price alert	Set notifications	--	6117.56 EUR	731.72 EUR	USD to EUR 0.8508 ?
sell here	France	BTC@EUR	Domestic Wfr...	Place order	Set Price alert	Set notifications	6849.29 EUR	6891.83 EUR		USD to EUR 0.8508 ?
buy here	Estonia	BTC@EUR	Domestic Wfr...	Place order	Set Price alert	Set notifications	--	6211.15 EUR	638.13 EUR	USD to EUR 0.8508 ?
sell here	France	BTC@EUR	Domestic Wfr...	Place order	Set Price alert	Set notifications	6849.29 EUR	6891.83 EUR		USD to EUR 0.8508 ?
buy here	Ireland	BTC@EUR	Bank of Ireland	Place order	Set Price alert	Set notifications	6466.41 EUR	6474.92 EUR	374.37 EUR	USD to EUR 0.8508 ?
sell here	France	BTC@EUR	Domestic Wfr...	Place order	Set Price alert	Set notifications	6849.29 EUR	6891.83 EUR		USD to EUR 0.8508 ?
buy here	Estonia	BTC@EUR	Square Cash	Place order	Set Price alert	Set notifications	--	6117.56 EUR	348.85 EUR	USD to EUR 0.8508 ?
sell here	Ireland	BTC@EUR	Bank of Ireland	Place order	Set Price alert	Set notifications	6466.41 EUR	6474.92 EUR		USD to EUR 0.8508 ?
buy here	Estonia	BTC@EUR	Domestic Wfr...	Place order	Set Price alert	Set notifications	--	6211.15 EUR	255.25 EUR	USD to EUR 0.8508 ?
sell here	Ireland	BTC@EUR	Bank of Ireland	Place order	Set Price alert	Set notifications	6466.41 EUR	6474.92 EUR		USD to EUR 0.8508 ?

» Screen 4 Spread Analysis Tool_ TOKPIE's Alpha 1.0

4.1.5 Identify the Most Profitable Quotes

The 'Top 10 Markets' tool (Screen 5) shows a real-time list of quotes sorted by price descending (for sellers) or ascending (for buyers). Traders can customize their search using filters specifying countries, base cryptocurrencies, and quote currencies (fiat or crypto).

Market screener

[TOP 10 movers](#) [TOP 10 markets](#) [A-B - analysis](#)

Country (choose): 226 of 226 selected

Pair (choose): BTC@EUR

Output potential trade deals: ☐ I want to see the best buying requests (I am seller) ☒ I want to see the best selling offers (I am buyer)

[Show](#)

Country	Pair	Payment method	Actions	Price
Estonia	BTC@EUR	Square Cash	Buy Sell Alert	6117.56 EUR
Estonia	BTC@EUR	Domestic Wire Transfer	Buy Sell Alert	6211.15 EUR
Ireland	BTC@EUR	Bank of Ireland	Buy Sell Alert	6474.92 EUR
France	BTC@EUR	Domestic Wire Transfer	Buy Sell Alert	6891.83 EUR

» Screen 5 Top 10 Markets - TOKPIE's Alpha 1.0.



4.1.6 Identify Markets with Strong Demand or Supply

The 'Top 10 Movers' tool (Screen 6) reveals up to ten instruments where prices have increased or decreased at a higher percentage rate than anywhere else for a specified period. Users will know which pairs and where they have been selling/buying for the highest/lowest price for the previous X days.

































Market screener

TOP 10 movers TOP 10 markets A-B - analysis

For the last: 30 days. Please, enter a numbers from 1 to 180, only integers.

Direction: ☒ Top 10 movers UP ☐ Top 10 movers DOWN

Show

Country	Pair	Payment method	Actions	Bid	Ask	First matched price	Last matched price	Change
SWAP	ETH Ethereum@BTC Bitcoin	SWAP	   	0.0845 BTC Bitcoin	0.089999 BTC Bitcoin	0.08 BTC Bitcoin	0.089999 BTC Bitcoin	12.50 %
SWAP	BTC@XRP Ripple	SWAP	   	10837.00 XRP Ripple	12000.00 XRP Ripple	10837.00 XRP Ripple	12000.00 XRP Ripple	10.73 %
Australia	ETH Ethereum@AUD	Payeer	   	987.00 AUD	1063.00 AUD	987.00 AUD	1063.00 AUD	7.70 %
Canada	LTC Litecoin@CAD	Domestic Wire Transfer	   	277.00 CAD	298.00 CAD	277.00 CAD	298.00 CAD	7.58 %
Brazil	LTC Litecoin@BRL	Domestic Wire Transfer	   	733.00 BRL	750.00 BRL	737.00 BRL	750.00 BRL	1.78 %
China	BTC@CNY	Wechat Pay	   	65000.00 CNY	65730.00 CNY	64655.00 CNY	65730.00 CNY	1.66 %
British Virgin Is.	BTC@GBP	Payoneer	   	7594.00 GBP	7640.00 GBP	7594.00 GBP	7640.00 GBP	0.61 %
SWAP	ETH Ethereum@USD	SWAP	   	885.00 USDT Tether	899.00 USDT Tether	885.00 USDT Tether	890.00 USDT Tether	0.58 %

» Screen 6. Top 10 Movers - TOKPIE's Alpha 1.0.

4.1.7 Keep Your Finger on the Pulse

The 'Watchlist' tool (Screen 7) helps traders to stay focused. It indicates bid, ask, last matched price, and a percentage of change for the selected instruments.

Add to 'My watchlist'

Country	Pair	Payment method	Place order	Set Price alert	Set notifications	Bid	Ask	Last matched price	Change
China	BTC@CNY	Wechat Pay	Place order	Set Price alert	Clear notifications (B)	65000.00 CNY	65730.00 CNY	65730.00 CNY	+1.66%
United States	BTC@USD	Domestic Wire Transfer	Place order	Set Price alert	Set notifications	9410.00 USD	10130.00 USD	9950.00 USD	+5.29%
SWAP	ETH Ethereum@BTC Bitcoin	SWAP	Place order	Set Price alert	Set notifications	0.0845 BTC Bitcoin	0.089999 BTC Bitcoin	0.089999 BTC Bitcoin	-0.00%
SWAP	BTC@XRP Ripple	SWAP	Place order	Set Price alert	Set notifications	10837.00 XRP Ripple	12000.00 XRP Ripple	12000.00 XRP Ripple	+10.73%
Australia	ETH Ethereum@AUD	Payeer	Place order	Set Price alert	Set notifications	987.00 AUD	1063.00 AUD	1063.00 AUD	+7.70%

» Screen 7. 'My Watchlist' - TOKPIE's Alpha 1.0.



4.1.8 Catch Conditions for the Best Deals

Use automatic price alert and notification tools (Screen 8 and 9) to react instantly to market events. The platform informs traders when the price for specified instruments reaches the preset level. A trader can also receive notifications when any new order is published or matched in a particular instrument.

Set Price alert

You will receive email notification when the price reaches the level that you have set here.

Country, Base currency @ Quote currency, Payment method: United States -- BTC@USD -- Domestic Wire Transfer

Current Level: 9410.00 USD -- 10130.00 USD -- 9950.00 USD
BUY price -- SELL price -- Last matched price
 "--" means there is no any order

When: ☐ Buy Price ☐ Sell Price ☒ Matched Price
Choose a type of the price.

Becomes: ☒ Higher ☐ Lower
Choose a condition

Than or equal to the Level (USD): 11000
Enter the signal price. When the pair's price becomes higher/lower than or equal to that signal price you will be notified. Use N.NN format for price entering (for example 120.76)

Comment: It's time to sell !!!
You will receive email notification with that Comment inside when the Price reaches the level you have set above.

Alert recipients list: youremail@example.com
You may enter up to four additional emails (if want). The same price alert notifications will be sent to that emails when the price alert you have set above is being triggered. Use a new line for each additional email address entering.

Save

» Screen 8. Price Alerts Settings - TOKPIE's Alpha 1.0.

Set notifications

You can subscribe on notifications receiving, which come every time when a new order is being publishing.

Country, Base currency @ Quote currency, Payment method: China -- BTC@CNY -- Wechat Pay

Set notifications: ☒ Notify me when a new BUY order is being published
☐ Notify me when a new SELL order is being published
☐ Notify me when any new order is being published

Recipients list: tokpie.tech@gmail.com
Notifications will be sent to that email addresses. You can edit email addresses list in "Account Settings".

Set notifications

» Screen 9. Notification Settings _ TOKPIE's Alpha 1.0.

4.1.9 Increase Credibility and Trading Volume

The 'Feedback System' (Screen 10) allows traders to send and receive evaluations from counterparties to accumulate Ratings. A High Rating increases credibility and allowable trading volumes, and also gives access to additional functionality to the trader, for example the ability to earn tokens for the provision of support to other users.

All of these tools, as well as the additional features described in the Unlimited Scalability section, allow traders to reach excellent **efficiency and high liquidity, and the best prices for buying and selling.**



★★★★★ - Delivery satisfaction ✓

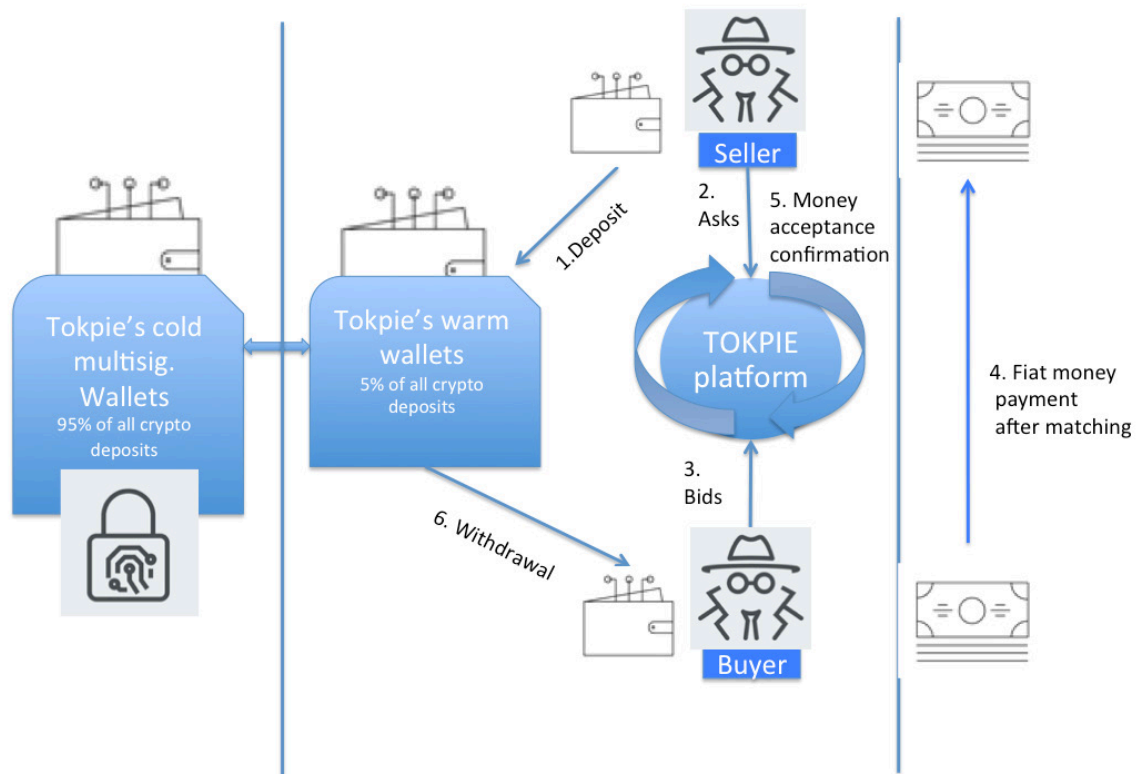
» Screen 10. Feedback Ratings - TOKPIE Alpha 1.0

4.2 Security and Privacy

Security

TOKPIE does not touch or hold traders' fiat money. As a guarantor of a transaction, TOKPIE holds 95% of sellers' cryptocurrencies in 100% safe TRUE multi-signature hardware (cold) storage and deposits it into the buyers' account immediately following payment confirmation, using for that purposes only 5% of assets stored in the platform's hot wallets. The process of crypto-assets and fiat money flow is illustrated in Schema 2 below.

Thanks to our working principle – to not touch fiat money - no bank or government authority can seize or lock the funds of TOKPIE users.



» Schema 2. Crypto-Assets and Fiat Money Flow



Additionally, TOKPIE employs the following technological security measures:

- Use SSL/TLS encryption for all data transfers to and from platform users;
- Use REAL cold storage for crypto-assets and never hold or transfer any users' fiat money funds;
- Use Multi-signature wallets;
- Use SMS validations, encrypted backups and a damage recovery plan;
- Make internal network inaccessible from external internet;
- Use 2FA authentication with a settings lock; an effective safety tool preventing corruption of the user's account information by a hacker who has accessed the user's account.

When **settings lock** is enabled, the following account information is locked and cannot be instantly changed:

- Account settings
- Password
- Notifications
- Withdrawal addresses
- Verification information
- Two-factor authentication

API Keys

The settings lock also encrypts specific sensitive information within the user's account. The user's verification information, setup information for two-factor authentication, and API keys are not visible.

Additionally, once the lock is enabled, settings can't be changed until an execution of the unlock request. The unlock request can be executed up to 30 days after it is made (the user may set the specific number of days). Each time an unlock request is made, the platform immediately sends an email alert to the user.

For example, the user turns on the settings lock with the unlock process set to take 10 days. Then someone gains access to the user's account and attempts to change the address for a Bitcoin withdrawal. The user would automatically get an email alert of the unlock request and would have 10 days to stop the request before it will be executed.

However, it must be pointed out that the safety benefits of the settings lock tool will only take place to the extent that the user's master key is kept safe. If someone gains access to both the user's account and the master key, the settings lock won't help.

Finally, TOKPIE employs the following security processes:

- Apply strict authorization levels where each employee's access to data depends on their responsibilities. For example, some employees will not be able to access usernames; others will not have access to balances. No one employee will be able to access all data, in particular the crypto-assets, which are stored in multi-signature hardware wallets. And no one will be able to supersede the security rulebooks;
- Apply automatic internal auditing and independent external auditing for vulnerabilities;
- Apply automatic and second-level checking of manual users' accounts.



- Apply accounts' monitoring for suspicious activity involving logins, trades and withdrawal transfers;
- Apply physical separation of main departments among different countries;
- Apply a ban on cellphones, cameras, USBs etc. in server areas.

Privacy

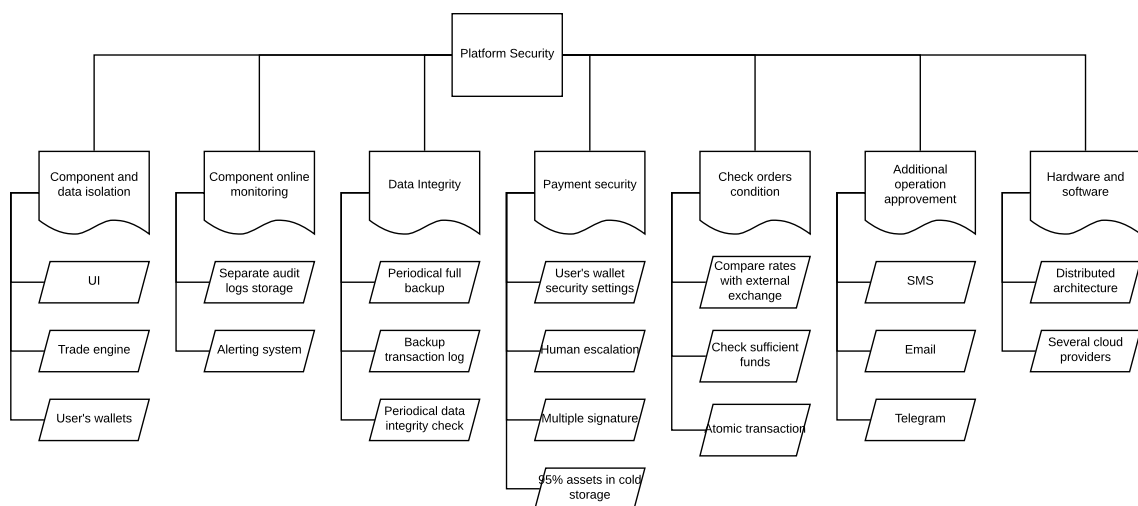
ID verification will be implemented to comply with KYC (Know-Your-Customer) and AML (Anti-Money-Laundering) policies. This level of secure user identification allows TOKPIE to provide users with checked and verified counterparties to prevent scams and illegal activities. Personal data will be protected with the following procedures:

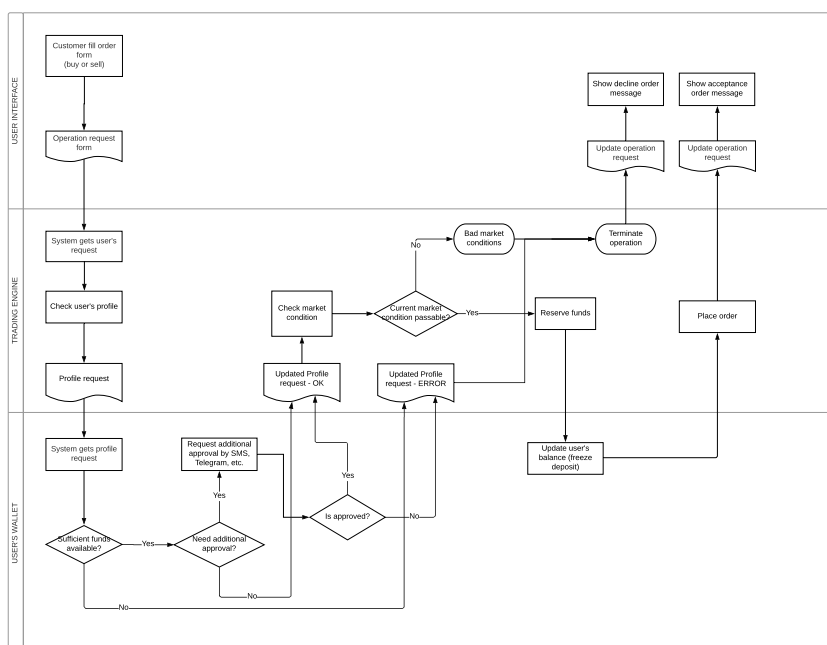
First of all, the platform will not store users' IDs or photos in the web-connected server side. Instead, this information will be locked in the separate and safest hardware storage, which will not be connected to the internet.

Secondly, as stated above, no one employee or team member of TOKPIE will have access to personal information because of separation of access between employees.

Thirdly, the described external layers of platform protection will keep all personal data safe.

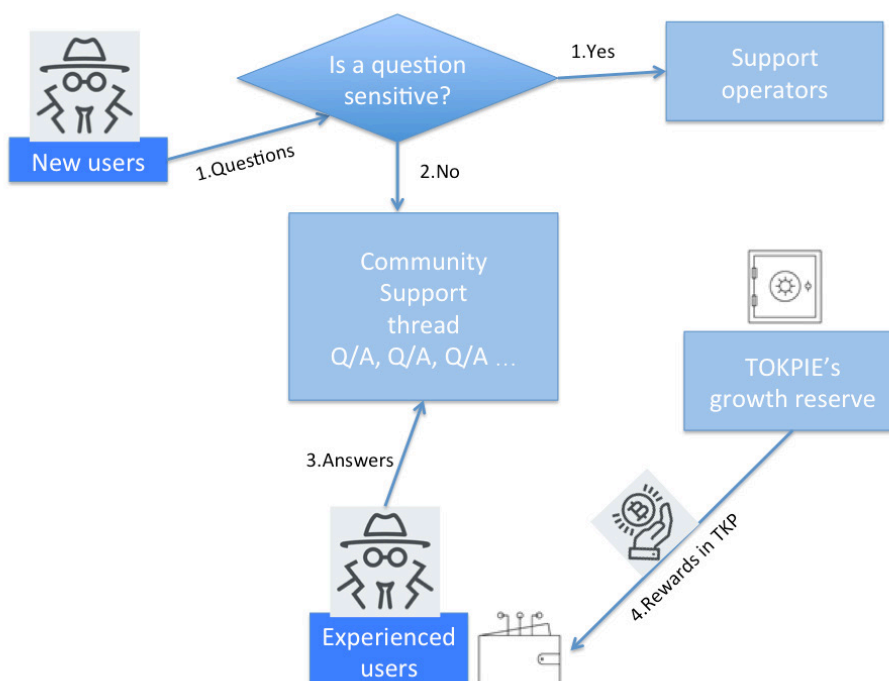
TOKPIE PLATFORM ARCHITECTURE
SECURITY COMPONENTS



TOKPIE PLATFORM ARCHITECTURE
ORDER PLACEMENT

4.3 Customer Support Gamification

Thanks to TOKPIE's token model, a high level of support services will be provided through employees and experienced users' engagement using gamification principles to make the platform really user-friendly (Schema 3).



» Schema 3. Customer Support Gamification



An ordinary support service can appear to be a never-ending queue of cases and users' requests, which can decrease morale and staff retention. To solve this problem, TOKPIE will use game mechanics to engage employees and experienced users (who have a high rating score) to fulfill the demand for platform support. Gamification relies on the desire for additional earnings, personal recognition, status, and achievement, plus the thrill of competition.

Where experienced users provide support they will be engaged only in solving the most frequent and simple questions and they will not have access to clients' sensitive information.

Gamification is not a game, instead it offers a new means by which employees and experienced users can be incentivized to engage through performance quantification, rapid feedback loops, and a sense of progression. Support services provided by engaged employees and experienced users will be rewarded based on the following metrics:

- Customer satisfaction;
- Case volumes handled;
- Average incident handling/resolution times;
- Volume and quality of knowledge articles created.

TOKPIE's gamification process will be based on the inbuilt Zendesk knowledge community support tool for customers to self-serve and submit tickets. The tool will be used to reward experienced users and employees with TKP tokens for contributions and usage of Zendesk features with game mechanics.

The aforementioned will encourage higher levels of knowledge sharing. It will reduce work duplication and better meet customer support needs, contributing to a high level of user satisfaction.

Finally, adding gamification to the support function will help increase the platform adoption rate by stimulating thousands of traders of different languages to sign up, become experienced users and earn tokens for helping newcomers.

4.4 No Fees or Hidden Commissions

TOKPIE will not take any fees from approximately 90% of its users. Only high-volume traders and corporates will be charged with extremely low (compared to other exchanges) subscription fees, nominated in TOKPIE's tokens.

Transaction support between buyer and seller shouldn't cost more than it does to send an email or a text message. Within the TOKPIE platform ordinary users will **trade free of charge, forever!** Furthermore, no fees or limits will be applied to deposit and withdrawal operations.

Preliminary TOKPIE subscription plans structure is shown in Table 3.

	LIGHT	PREMIUM	ENTERPRISE
Subscription fee	0 TKP	10 TKP /mo.	30 TKP /mo.
Trade vol. USD equivalent	up to \$100 000	up to \$300 000	no limits

» Table 3. TOKPIE's Subscription Plans



- * No hidden commissions;
- * No fees for crypto-assets deposits or withdrawals (except blockchain inherited 'gas' fees);
- * No limits on crypto-assets withdrawals.

The charts below show the amounts of savings in fees across the different exchanges:

Case A: A trader purchasing Bitcoin on 2,000 USD

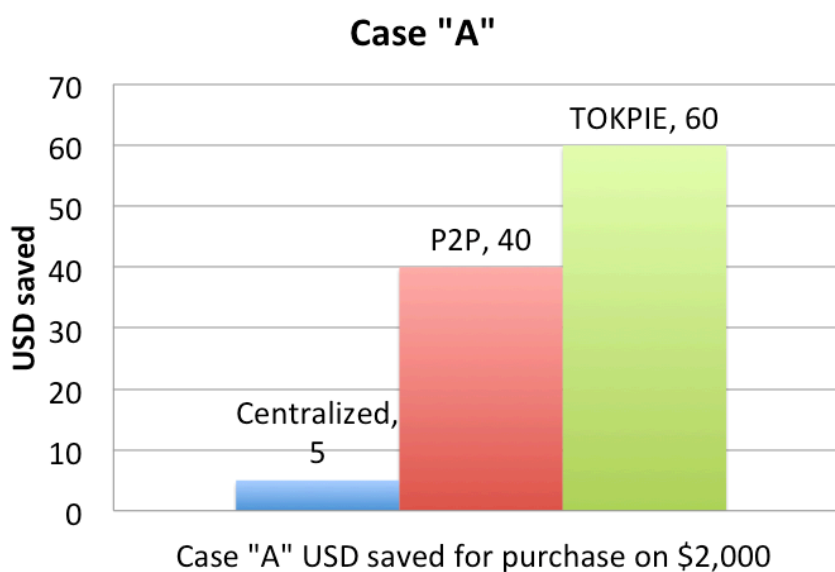
Case B: A trader purchasing Bitcoin on 150,000 USD

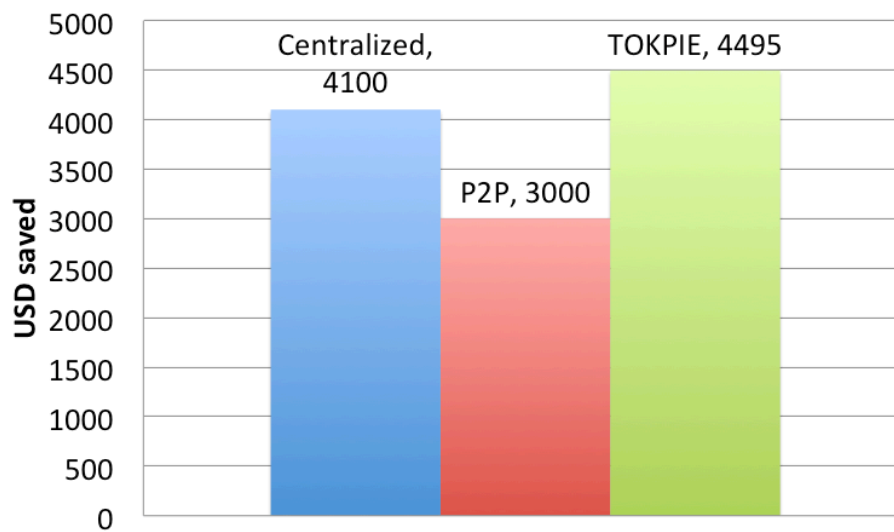
Case C: A trader purchasing Bitcoin on 500,000 USD

Decentralized types of exchanges are not included in the chart because users cannot purchase any cryptocurrency on these exchanges using local fiat money. Calculation of fees charged by brokers is based on 3% commission rate. Centralized exchanges fees are based on Kraken's fee schedule. P2P exchanges fees are based on the Localbitcoin tariffs. TOKPIE platform fees are based on the 1 TKP price (USD 0.50) offered during the token sale.

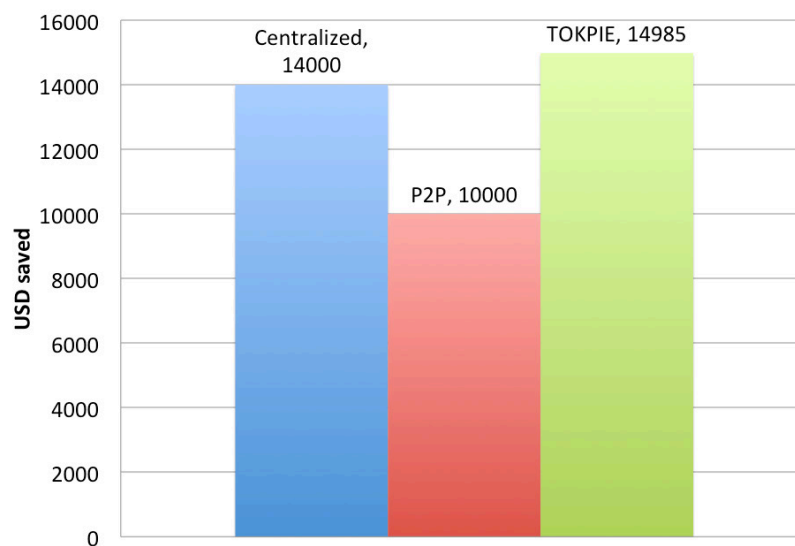
	Brokers	Centralized		P2P		TOKPIE	
	Fees	Fees	Money saved	Fees	Money saved	Fees	Money saved
Case "A" fees for purchase on \$2,000	\$60	\$55	\$5	\$20	\$40	\$0	\$60
Case "B" fees for purchase on \$150,000	\$4 500	\$330	\$4 100	\$1 500	\$3 000	\$5	\$4 495
Case "C" fees for purchase on \$500,000	\$15 000	\$1 000	\$14 000	\$5 000	\$10 000	\$15	\$14 985

» Table 4. Fees and Savings Comparison



Case "B"

Case "B" USD saved for purchase on \$150,000

Case "C"

Case "C" USD saved for purchase on \$500,000

Concerning Case 'C', it must be pointed out that besides the declared fees a user will pay a 'liquidity fee' when making a high-volume trade on a centralized exchange. A liquidity fee is the cost of an order execution arrived from market bias when a 'big' order appears in an order book. So, a trader willing to buy BTC of \$500,000 for the current market price e.g. \$ 8,000, will actually pay much more because the market price will grow immediately after placement of an order. To avoid this drawback, TOKPIE will allow high-volume users to trade in the Dark Pool Order Books which will be described in the following sections.

Add-ons

By staking TKP tokens on her or his account and satisfying particular requirements, a user gains access to the additional functionalities:

- Access to the B2B Order Books;



- Access to the Dark Pool high volume-lots order books;
- Additional functionality described in the Unlimited Scalability section.

4.5 Unlimited Scalability

Depending on users' needs, revealed in the Bitcointalk poll results, where users voted for features they want in addition to basic functionality, TOKPIE's concept of encapsulating different parameters into unique tradeable instruments will be used in many other ways described in this section.

4.5.1 Cross-Exchange Spread Trade Analysis for Brokerage

Similar to the currently working Spread Analysis tool (Section 4.1.4), showing the highest price differences among instruments inside TOKPIE's platform, the Cross-Exchange Spread Analysis tool will reveal trade opportunities arising between TOKPIE's instruments and other external exchanges.

This tool will make the TOKPIE platform a connection point for high-volume traders having many accounts on other exchanges, and for asset managers, institutional investors and ordinary users wanting to earn money through intensive trading.

4.5.2 Dark Pool Order Books

Access to Dark Pool order books will allow atomic cross-chain transactions or crypto-fiat trades.

High-volume traders (or companies) can buy and sell crypto-assets on the Dark Pool Order Books, which are not visible to ordinary traders, e.g. by choosing a [SWAP - BTC@XRP Ripple - DPOB] instrument. The trade for fiat is also possible, e.g. by choosing [Germany - BTC@EUR - DPOB International Wire Transfer] instrument.

4.5.3 Full Dark Pool Order Books

This functionality allows atomic cross-chain transactions or crypto-fiat trades. This type of order books is not visible to ordinary traders. The participants cannot see market depth, prices and volumes of similar-direction and counter-orders. For example, [SWAP - BTC@XRP Ripple - FULLDPOB] instrument for crypto-to-crypto trade, and [Germany - BTC@EUR - FULLDPOB International Wire Transfer] instrument for crypto-fiat trade.

4.5.4 B2B Order Books for Crypto-Fiat Trades

Business organizations with verified corporate accounts can trade any crypto-assets (not only cryptocurrencies, but any smart contracts representing some rights, etc.) with other companies for fiat by using B2B type of instruments, e.g. [Germany - BTC/EUR - B2B International Wire Transfer]. The orders books containing such instruments are not visible to ordinary traders – only to other corporate accounts holders.

The Bottom Line

Difficulty in filling 'big' orders can cost users a lot of money in transaction costs. But thanks to TOKPIE's Dark Pool Order Books orders are hidden, unlike in public order books. Moreover, if a user can't complete his or her trade from existing orders in the Dark Pool Order Book, it will be fractionally duplicated in the other outside exchanges.

High-volume traders who want to gain profit from arbitrage between TOKPIE instruments and other external exchanges will be able to make duplicate orders by using the **Cross-Exchange Spread Trade Analysis** tool.



This will be in high demand by asset managers and institutional investors who want to own crypto-assets like Bitcoin, Ether, etc, but who don't want to run it on centralized exchanges.

All these, accompanied with the ability to get real-time quotes for spread trading on other exchanges and inside the TOKPIE platform (the spreads appear according to the different countries and method of payments) will allow traders to reach high levels of liquidity and achieve the best prices for matching.

4.5.5 Crypto Indexes

To create common benchmarks and foundations for blockchain-based crypto derivatives, TOKPIE can design many different indexes, which will be indicators or measures of change in a crypto market.

Users could not buy or sell an index directly because it would consist of a hypothetical portfolio of crypto-assets representing a particular market or a segment of it.

For example, Indexes may measure the following:

- Weighted average Bitcoin price based on data received from different exchanges (through API) and weighted on the volume of trades;
- The weighted average price of the 50 (or 500+) most highly capitalized altcoins, not including Bitcoin;
- The weighted average price of all altcoins related to a particular sector (e.g. green energy).

There is plenty of space to create many unique indexes differentiating by sector, blockchain, country, model of tokenomics (e.g. utility or equity), weighting principles (price or capitalization), etc.

All indexes will be investable and transparent with a clear method of construction. In addition, the open API would allow transmitting indexes to third party applications and smart contracts to create by-products like index funds and futures.

4.5.6 Crypto Index Funds

TOKPIE will be able to issue its own smart contracts or list third party created tokens representing particular Crypto Index Funds. A regulator of a typical CIF receives investments from its contributors and buys crypto-assets included in the list of a particular index in accordance with the weight of those assets.

4.5.7 Crypto Futures

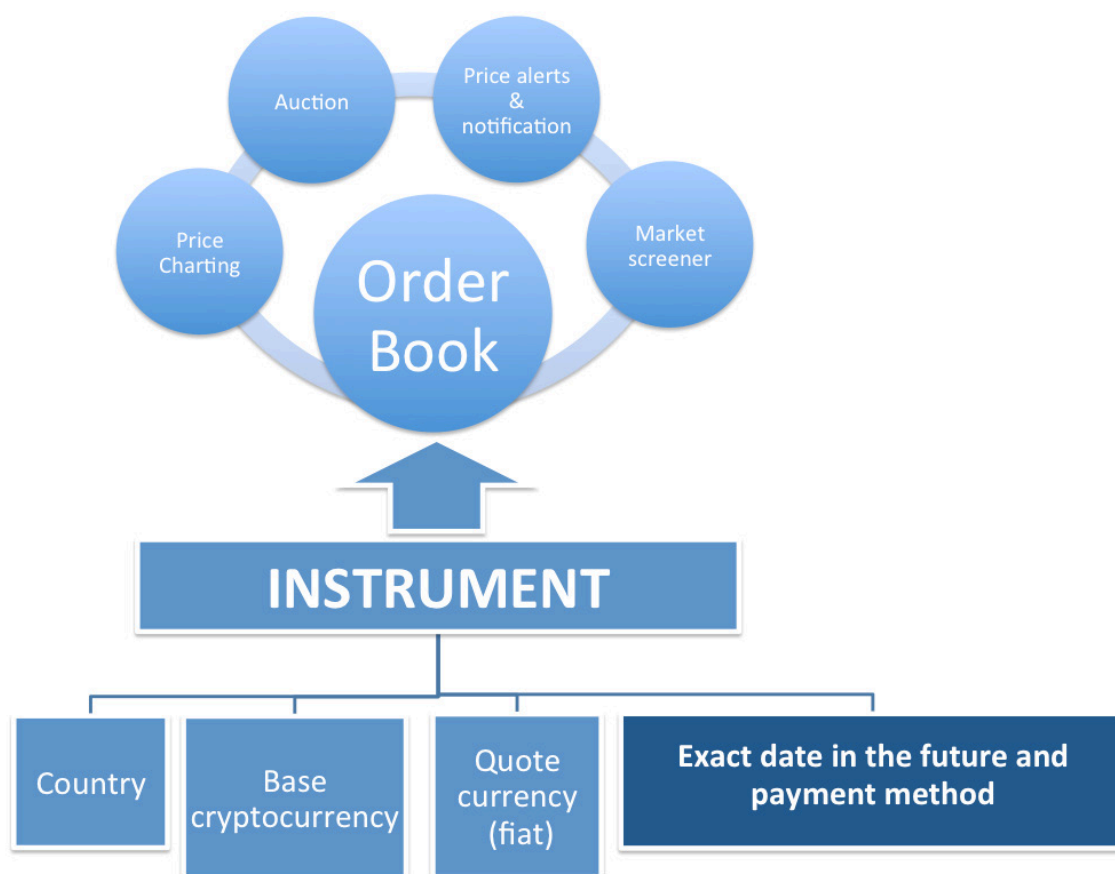
By trading crypto-futures provided by TOKPIE, users may enter into a contract with another investor saying that they will buy or sell a particular crypto-asset to or from another party at a defined point of time in the future and for an agreed upon price. TOKPIE will be holding the crypto-asset of the seller until the contract expiration date. Schema 4 shows such a type of instrument.

4.5.8 Crypto Options

Based on futures, users would also have Options as another form of crypto derivatives. An option provides a trader with the right to buy or sell a crypto-asset later at a predetermined price – buy or sell a crypto futures contract. If a user expects crypto-asset prices to fall, they will want to invest in Put Options. These allow crypto-assets to be sold later at a higher price than market price. Thus, if other investors share your opinion, the value of Put Options will rise.

If a user expects crypto-asset prices to rise, they will want to buy Call Options – options that enable crypto-assets to be bought later at a predetermined price. If other investors expect crypto-asset prices to rise, crypto-asset call options will also become more valuable.





» Schema 4. Crypto Futures instrument for Trading.

By operating crypto futures and options, users are not trading in cryptocurrency – they are just buying and selling the right to buy and sell that cryptocurrency. Thus, the transactions don't need to be completed in cryptocurrency – traders can use fiat currency and an instrument, for example: *[Germany – BTC/EUR – Future Wire Transfer 15MAR18]*.

Futures and options will not only help to increase the trading volume and appeal of the platform, but will also avoid some of the risks innate in cryptocurrency trading:

* Instead of worrying about malicious attacks on their crypto wallet, or losing private keys, users can rely on conventional account management in fiat currency.

* This also makes investing in crypto-asset futures and options feasible for non-crypto experts. Users won't need to know how to set up a crypto wallet.

*And finally, dealing in cryptocurrency is illegal in some countries (like China), and a legal grey area (also tax-wise) in others. Those risks and uncertainties do not apply to crypto-asset futures and options because the crypto-asset is basically just the underlying index. Users don't profit by buying and selling crypto-assets, but **by making correct predictions about the future prices of crypto-assets.**

However, the aforementioned points only apply if the crypto-asset futures are actually traded in fiat currency and not if they are traded in cryptocurrency. Another feature of crypto-asset futures trading is that it allows users to invest with leverage - enabling them to realize greater profits (but also losses) with the same amount of capital.



4.5.9 P2P Decentralized Lending

A user with an account on the TOKPIE platform could:

- Earn interest on crypto holdings. When a user deposits Bitcoin or altcoins into the lending pool then they join TOKPIE's decentralized crowdsourced lending pool and earn daily interest;
- Benefit from margin trading and leveraged short;
- Get a cash loan against their crypto-assets with no need to sell them.

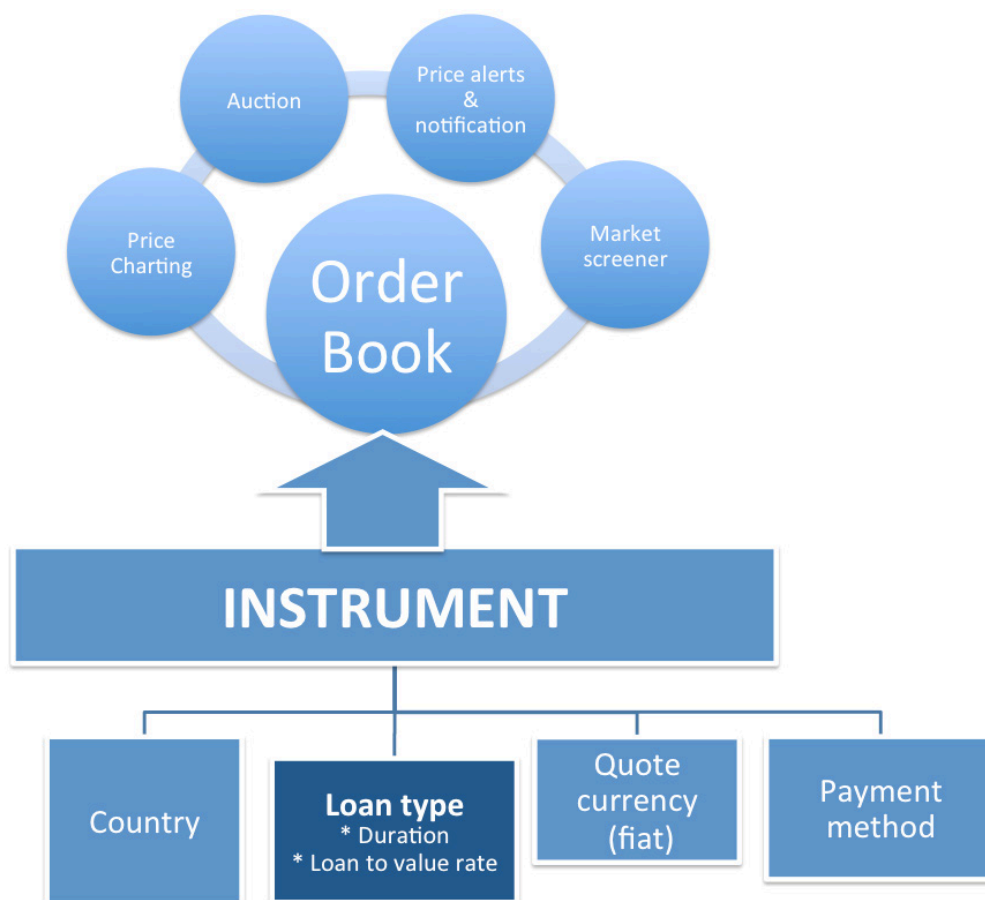
The user owns crypto-assets, which they do not want to sell, but they need some cash to make expenditures (e.g. buy a new iPhone, car). The TOKPIE platform will allow the borrower to predefine the:

* Amount of cash needed (e.g. no more than 30% of the crypto-assets deposited into TOKPIE's platform as collateral)

* Loan period (from one day to five years)

* Percentage Rate they are willing to pay for the loan.

* LTV-Loan To Value rate (choose between 10% to 70% rate of the crypto-assets deposited into TOKPIE's platform as collateral)



» Schema 5. P2P Crypto Loan Instruments Structure.



For example, a borrower wanting to borrow 1Mln Russian Rubles for one year with the rate of 2%, agrees to put their crypto-assets - equivalent to two times higher - as collateral, should select this instrument:

[Russ – Bond/365d/0.5LTV@RUB - Sberbank] and place the order to sell by entering:

Amount: 1,000,000

Price: 2

The result is that the auction starts and any person having 1Mln Rubles can accept the conditions and match the order. After matching, the platform will monitor the value of the borrower's collateral locked in the TOKPIE's side. If the lender does not pay the loan on time with interest, then TOKPIE transfers the entire collateral deposit to the lender's account. The structure of this kind of instrument is shown in Schema 5.

TOKPIE may also issue digital assets (smart contracts) representing time-infinite bonds to support the free circulation of such loans as derivatives.

4.5.10 Infrastructure for Third Party Token Sales and Listings

The obvious drawbacks of existing token sale procedures are that every start-up must develop an investors' cabinet and pay high entry fees to be listed on popular exchanges. TOKPIE solves both of these problems.

TOKPIE can provide reputable start-ups with the ability to make private or public token sales in special order books. Start-ups will benefit from:

- No need to develop its own investors' cabinet because every TOKPIE user already has a personal account;
- No need to find exchanges to sell tokens after the token sale campaign. With TOKPIE they can be traded in any other fiat or cryptocurrency immediately after issuing (described below in detail);
- Receiving contributions made by investors who have already been verified in accordance with KYC (Know Your Customer) and AML (Anti-Money Laundering) regulations;
- A large audience from TOKPIE's platform consisting of ordinary traders, assets managers and institutional investors;
- A wide array of settings that can be implemented: minimal and maximum contributions volume, price limits, price steps, lot sizing, any fiat or crypto currencies can be accepted, etc.

At the same time, TOKPIE's users will benefit from early access to digital assets with the highest discounts in their portfolios. This will be a 'win-win' feature.

Moreover, TOKPIE will offer listing services for prominent projects. It's quite common to provide such services in conjunction with initial token sale infrastructure. Some exchanges charge anywhere from \$50,000 to \$1million for the listing; TOKPIE's fees will be lower and will be nominated in TKP tokens.

There are a lot of businesses who want their coins listed. Commenting recently on that subject, Michael Jackson, a partner at venture capital firm Mangrove Partners, told Business Insider: "The exchanges are where the liquidity is – it's where the money is - so that's where the power is just at the moment."



5. BUSINESS OVERVIEW

At TOKPIE we believe now is a great time to enter the crypto-asset market and compete for a share. This section describes the TOKPIE business model, and how the TKP token will accelerate the network and help to build the best possible Peer-to-Peer exchange. It also covers the financial projections as well as the legal issues involved with launching this type of business.

5.1 Market Analysis and Competitors

Fact #1: Growing Crypto-Assets Trading Volume

Despite the huge dip in the crypto market capitalization since January 2018 following its highest peak in December 2017, the market's daily trading volume has risen 56,7 times from US\$0,37 Billion on March 07, 2017 to US\$21Billion on March 07, 2018, according to CoinMarketCap.

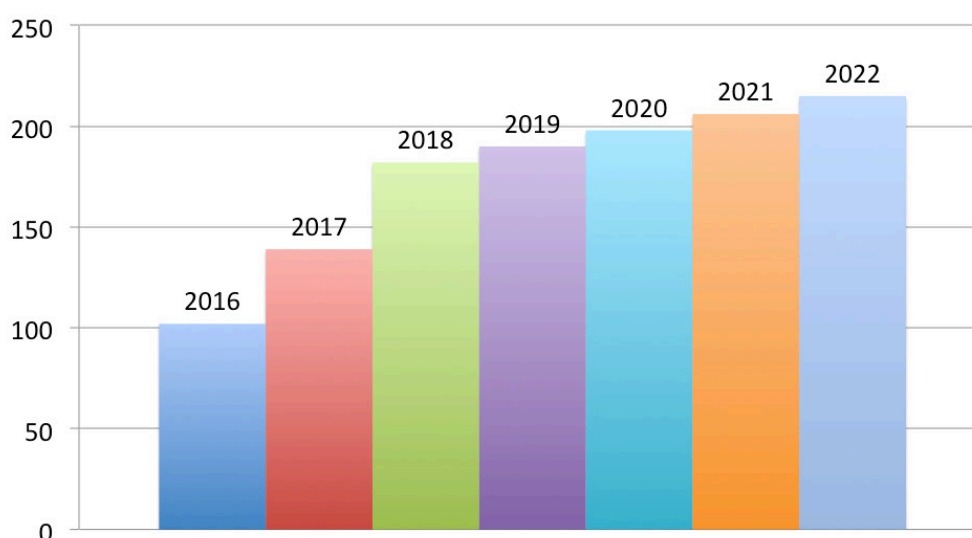


The Bottom Line

Drawing a parallel with the FOREX market daily trading volume equaling US\$5.1Trillion (242 times larger than the crypto market), the crypto market is still in its infancy and has huge potential to expand during the next two to three years.



Number of active account (millions)



Fact #2: Growing Number of Users

It's impossible to find out the number of users who trade on crypto exchanges because one person can have many wallets and many accounts on different exchanges and platforms. However, knowing the trade volume market share and number of accounts registered on Coinbase, one can assume the following:

Assuming the number of accounts created by users up to December 2017 continues to grow at the rate of 5% per year, then the number of active accounts will reach 215 million by the end of 2022.

The Bottom Line

The number of active accounts can be taken to mean the number of users across all crypto exchanges which is predicted to grow at a higher rate than 5% per year. At TOKPIE we believe many more people will switch to using cryptocurrency, because of lower costs and freedom across international borders. During such a shift people will need to make a choice about which crypto exchange to use. TOKPIE aims to capture 8% of that number by the end of 2022; this is equivalent to 18million of registered accounts.

Fact #3: Plenty of Space to Take Market Share.

The cryptocurrency exchange market has many contenders, but no single exchange commands a significant market share. According to University of Cambridge research, there are 138 cryptocurrency exchanges in the world and 25% of global trading volume is spread between exchanges outside the top 10. At TOKPIE we believe traders prefer to keep their funds on a number of different exchanges.

The Bottom Line

At TOKPIE we believe there is no better time to enter the crypto market with a better product that can outpace the competition.

Fact #4: The Growing Diversity of Crypto-Assets and Fiat Currencies In Trading

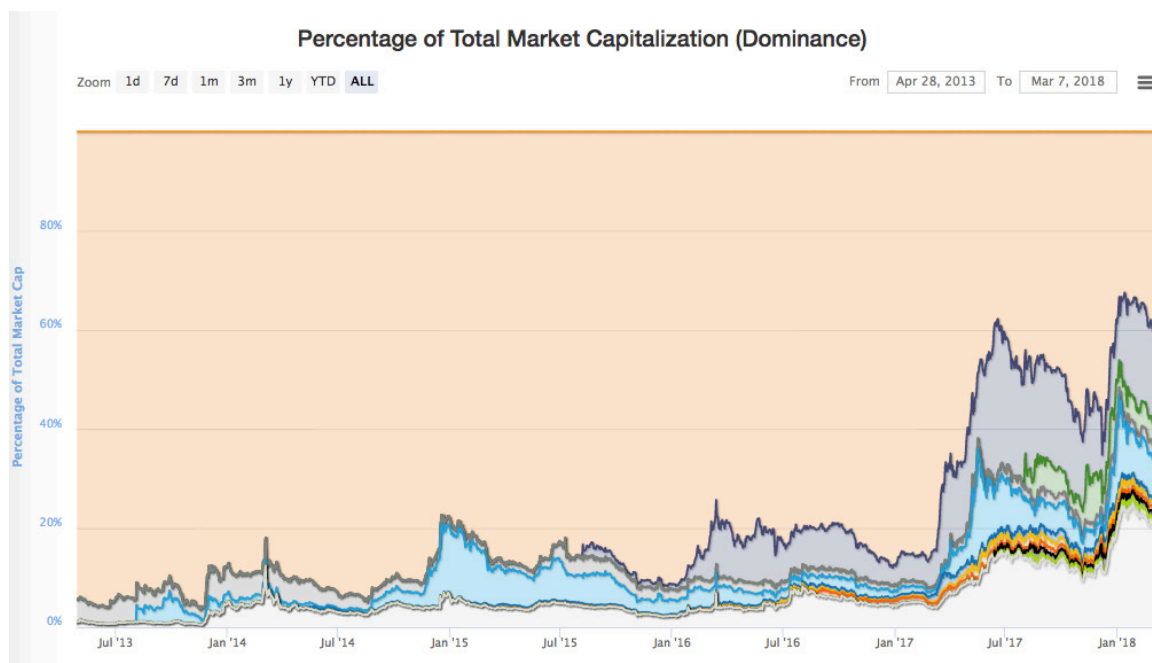
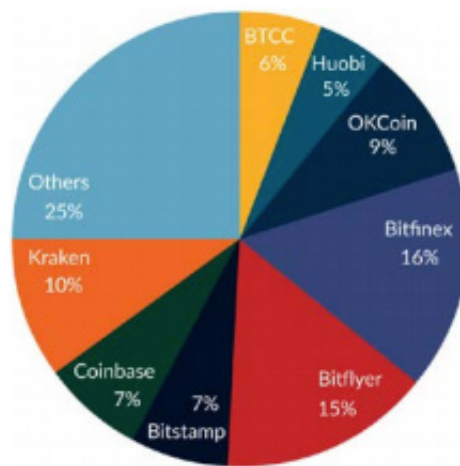


According to University of Cambridge research, the share of Bitcoin capitalization versus all other altcoins is shrinking. At the same time the number of exchanges supporting the trade of many different crypto-assets for different fiat currencies is extremely low.

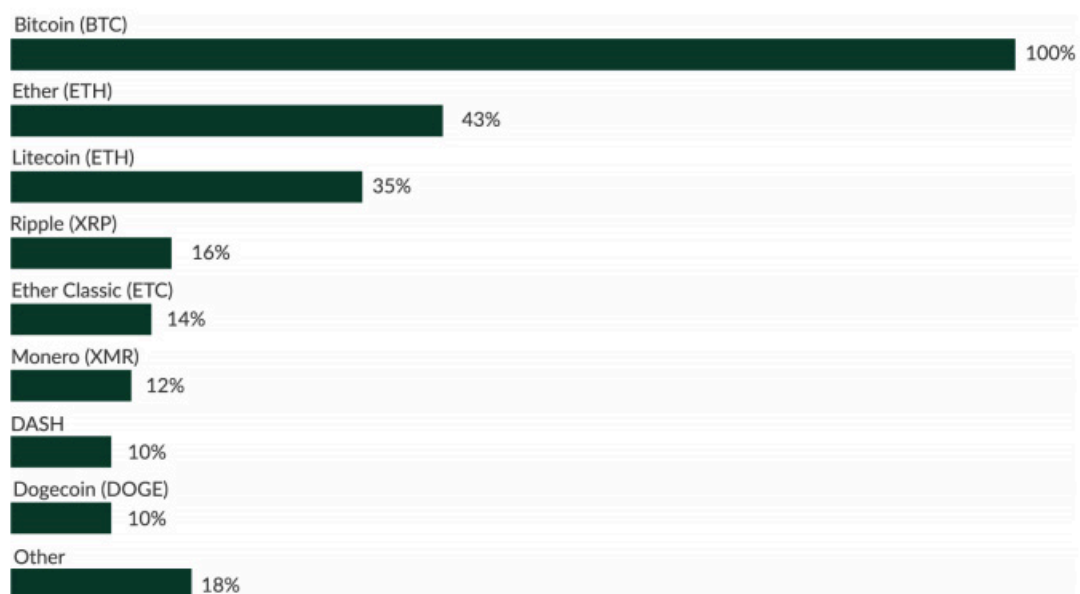
The Bottom Line

The growing demand for buying and selling many different crypto-assets (not only Bitcoin and Ethereum) with different fiat currencies and crypto-assets implies there will be strong demand for an exchange supporting as many pairs for exchange as possible.

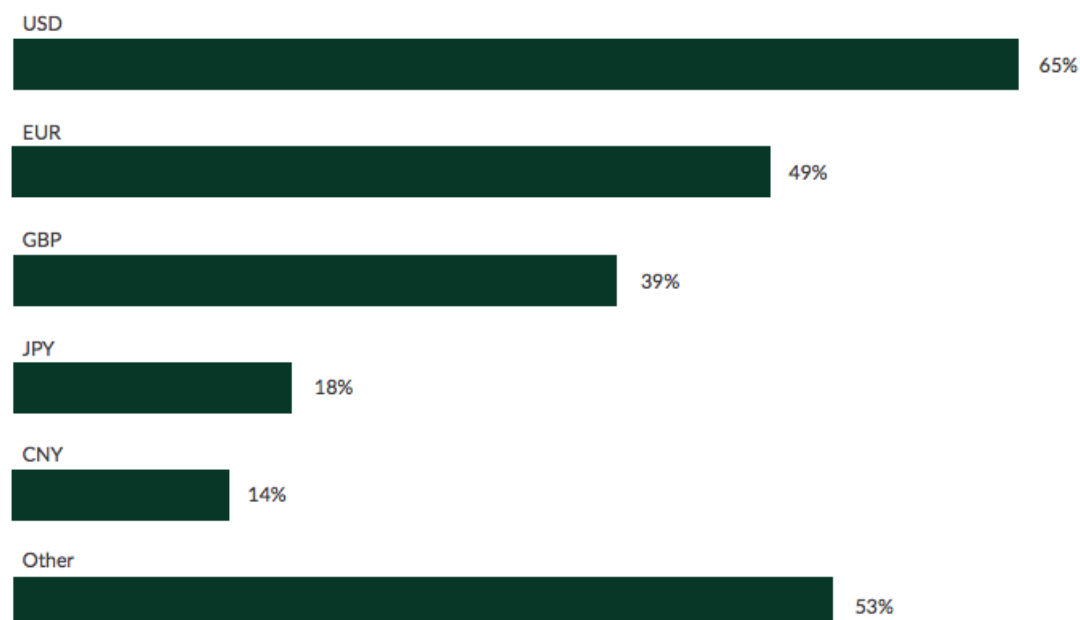
**Average market share
(February-March 2017)**



% of Exchanges Supporting the Listed Cryptocurrencies



% of Exchanges Supporting National Currencies



Summary

The crypto market is growing rapidly and businesses in the market need an exchange that can handle as many exchange pairs as possible. Considering the fact that there is no concentration of market share and a lot of scope for growth, as well as an increasing need for more secure and scalable platforms, now is an opportune time to join the exchange sector with TOKPIE's unique value proposition (see Table 5 below).

		Brokers		Centralized exchanges		Decentralized exchanges		P2P exchanges		TOKPIE	
Traders concerns	Weight	Score	Weighted score	Score	Weighted score	Score	Weighted score	Score	Weighted score	Score	Weighted score
Security, privacy, and reliability	44,7%	3	1,34	1	0,45	5	2,01	4	1,79	4,5	2,01
Fast support service	14,3%	2	0,29	3	0,43	2	0,29	2	0,29	5,0	0,71
Fees and commissions	12,7%	1	0,13	3	0,38	4	0,51	4	0,51	5,0	0,64
Ability to trade for the best prices	10,6%	1	0,11	5	0,53	3	0,32	4	0,42	5,0	0,53
Ease of use	8,9%	5	0,45	5	0,45	2	0,18	3	0,27	4,0	0,36
Crypto-favorable country of Exchange's registration	5,3%	2	0,11	3	0,16	5	0,26	4	0,21	5,0	0,26
Availability of leverage or derivatives for trading	3,5%	1	0,04	5	0,18	1	0,04	1	0,04	5,0	0,18
Total Weighted score		2,45		2,57		3,60		3,52		4,69	
Score index		100,00%		104,88%		147,19%		143,85%		191,58%	

» Table 5. Comparison of all Crypto Exchanges' types

5.2 Goals and Strategies

For the first three years TOKPIE's primary goal will be to achieve exponential growth by creating an 'attraction point' and leveraging the network effect. The network effect occurs when the services provided by the exchange become more valuable as more users register and trade with it. To attain that goal, TOKPIE will implement the following 4P marketing mix presented in Schema 6, as follows:

Product Development

- Provide excellent security and support services as described in the related sections;
- Steadily adding and supporting all existing fiat currencies, so that any user from any country in the world can buy and sell crypto-assets;
- Steadily adding and supporting all existing cryptocurrencies so that users have the ability to trade in all of them on one platform;
- Steadily adding and supporting all existing payment methods, especially those which deter scams, so that users have more options bridging to fiat currency.





» Schema 6. TOKPIE's 4P Marketing Mix.

By communicating with TOKPIE's growing community, fans can identify the most required features (new or described in the Unlimited Scalability section) and TOKPIE can concentrate on delivering on the Roadmap.

Product Placement

- Provide P2P crypto exchange and related services directly on TOKPIE's web-based platform (desktop version) 24hours/365days.
- Develop iOS and Android mobile versions of the platform.

Price

- TOKPIE conservatively anticipates that it will not be charging fees to 90% of its users. The remaining 10% of users (traders with monthly trading volumes above US \$100,000 equivalent) will use TKP to pay a low fixed subscription. TOKPIE fees will be forever below commissions charged by other exchanges.

Our fees will be anchored to US dollars. The result is that when the TOKPIE token price is rising, fewer tokens are needed to pay subscriptions and vice versa. This model will allow TOKPIE's fees to stay attractive for new high-volume traders.

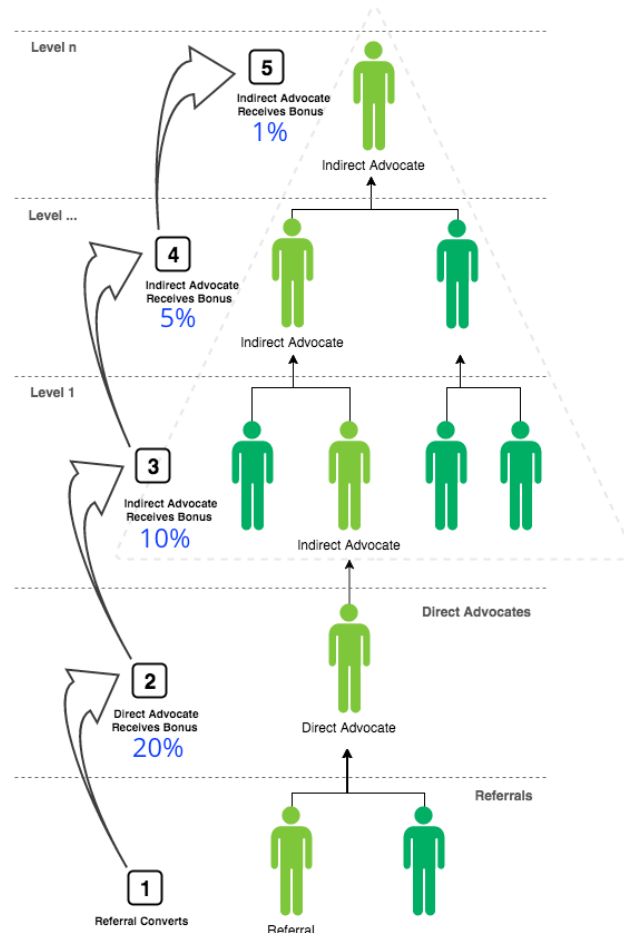
Promotion

- Provide a multi-level affiliate program.

Under TOKPIE's multilevel marketing incentive model, every time a direct advocate receives a bonus, the indirect advocates receive a bonus too. Schema 7 shows how this model works:



» Schema 7. TOKPIE's
Multi-level Affiliate
Program



Advocate Bonuses (up to 36%) will be paid in TKP tokens, for users who subscribe to more sophisticated trading functionality.

A direct advocate gets 20%
 Indirect advocate of level 1 gets 10%
 Indirect advocate of level 2 gets 5%
 Indirect advocate of level 3 gets 1%

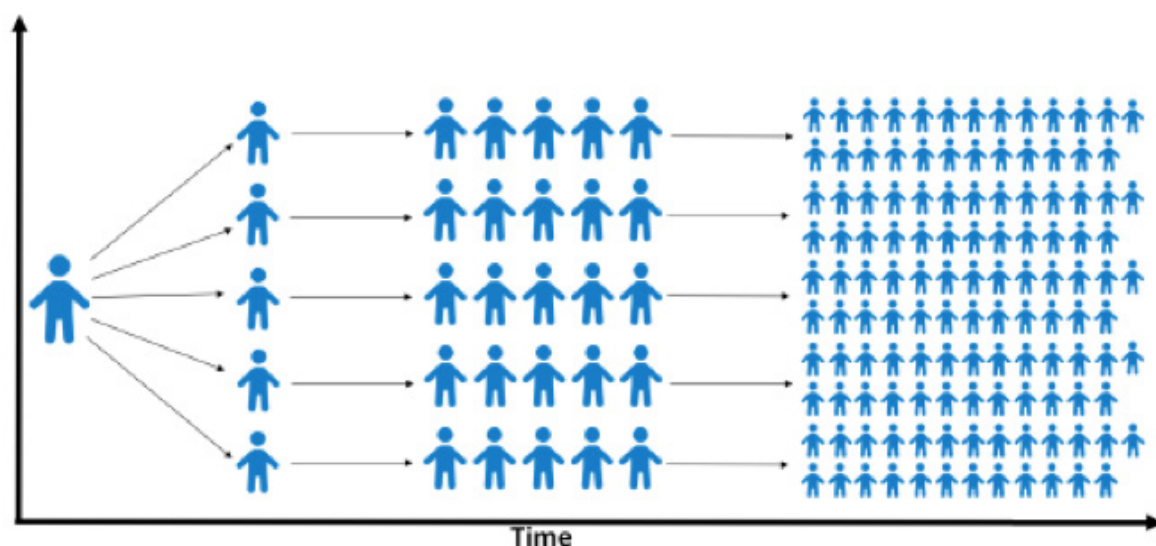
The Advocate Bonus is paid 5 levels into the advocate community in order to incentivize customer advocacy enabling TOKPIE's community to grow as fast as possible (Schema 8).

- To facilitate the Advocate Bonus program, we will provide any partner (a person or an organization) who wants to monetize their audience with iframe widgets and/or a ready-to-use website with in-built widgets connected to the TOKPIE platform. These partners can generate income from promoting TOKPIE to their audience

- Strategic partnerships with companies, which offer services and products to our target audience. For example, we have already engaged in a partnership with TradingView and use its charting library. This collaboration allows us to make interconnections with their widgets (mutual affiliate program), so that all users of TradingView can track any one of TOKPIE's instruments and make trade deals. At the same time TOKPIE users will become aware of TradingView services

- Leverage PR activity, such as collaborations with crypto industry influencers who can promote TOKPIE on Bitcointalk forum, blogs, YouTube channels and other social media





» Schema 8. TOKPIE's community growth.

- Assign highly-experienced journalists, lawyers, social media and SEO specialists from our Team members to publish useful articles for our target audience with the goal of driving awareness and website traffic
- Publish weekly newsletters to instantly notify subscribers and users about all of the platform's technical updates
- Collaborate with popular independent media resources to build awareness via publications and press releases

5.3 TOKPIE's Tokenomics

The TOKPIE ecosystem (Schema 9) is a closed micro economy in which TOKPIE Tokens (TKP) are held as proof of membership and exchanged for the services provided by the TOKPIE platform:

1. Subscription fees will be paid using TOKPIE tokens, causing a constant upward pressure on TKP holding, and a downward pressure on market supply.
2. TOKPIE counterbalances these two pressures by selling tokens, creating a downward pressure on its token holdings and an upward pressure on market supply. However, TOKPIE will be selling all incoming tokens at a rate of 10% each month in order to avoiding oversupplying the market. So, for example, 100 tokens received in July 2018 will be sold out (returned to the market) during the period August 2018 to May 2019 with 10 tokens sold each month.
3. From 2019 to 2022, token ownership will be decentralized through sales of TOKPIE's reserves (see Token distribution section for details). The share of reserves is 21% of total token supply. Reserves will be auto released by the smart-contract by equal parts every sixth month after TOKEN SALE according to the following schedule:

On January 03, 2019 = **2.625% of total token supply**

On July 05, 2019 = **2.625% of total token supply**

On January 03, 2020 = **2.625% of total token supply**

On July 04, 2020 = **2.625% of total token supply**

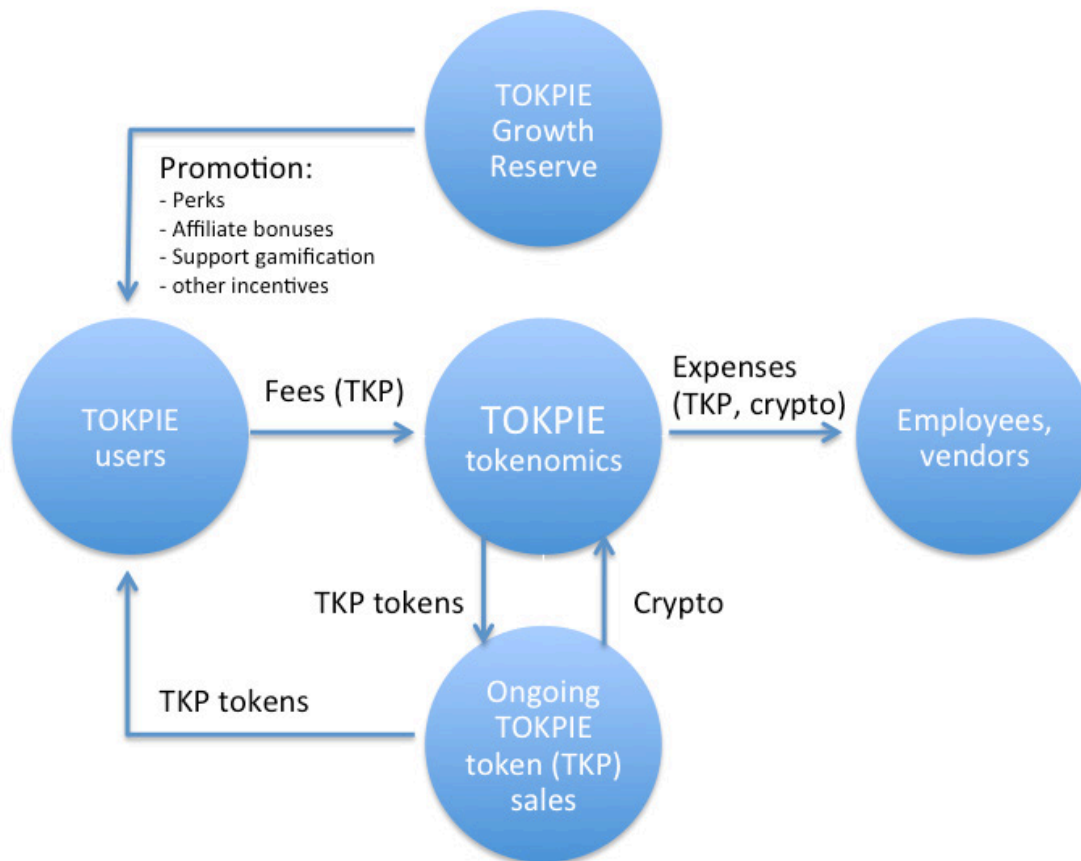
On January 02, 2021 = **2.625% of total token supply**

On July 04, 2021 = **2.625% of total token supply**

On January 02, 2022 = **2.625% of total token supply**

On July 04, 2022 = **2.625% of total token supply**





» Schema 9. TOKPIE's Tokenomics Structure

4. The velocity of TOKPIE's token can be summarized through the formula:

Total capitalization of TKP tokens = GDP of TOKPIE / Velocity =>

=> Velocity = GDP of TOKPIE / Total capitalization of TKP tokens, where

Velocity = the turnover ratio = 1/average time of holding TKP tokens by holders

Average time of holding will be low because users will be required to hold TKP tokens on balances to get access to special features or get surprise airdrops, lottery wins and other gamification perks. TKP tokens will also be used as collateral for leverage trading, loans, etc.

GDP of TOKPIE = Total revenue generated by all services provided by the platform.

We have unlimited scalability to provide users with many more useful tools and features and as a result there will be increasing demand for TKP tokens.

Total capitalization of TKP tokens = Market price of TKP x total number of tokens supplied.

The market price will be determined by the free market when the TKP is listed on other exchanges as well as on our platform. The total number of tokens supplied is limited and can be calculated as the total number of tokens sold during the token sale/0,65. See more details in the Token distribution section.

5. TOKPIE will be keeping subscription fees low to maximize the value of service provided to the users.



Token Usage Benefits:

1. Membership: To gain access to some features of the platform, a member shall have a minimum TKP balance.
2. Subscription Fee Payment: Subscriptions must be paid in TKP. The cost of the subscription may be fixed to US dollars to make it consistently below the level of fees charged by other exchanges.
3. Add-ons: The users can purchase access to the more sophisticated tools or platform services by making a one-time TKP payment.
4. Collateral and Interest Fees: Users will be able to get loans (fiat or crypto) from other users or to open short position (sell for fiat or crypto) with the leverage or long positions (buy for cryptocurrencies) with the margin using TKP tokens locked on the account balance as collateral. Interest for using this feature will be charged in TKP tokens.

Membership

One of the core services of the TOKPIE platform will be the ability to lend and accept P2P loans from other platform users. This is the type of service that would require holding TKP. In order to access these services, tokens may be required to be locked on the account. If a member does not already have TKP tokens to access membership, they can purchase TKP through the platform as part of their account setup, allowing for a more seamless entry into membership. We estimate that about 50% of TOKPIE's users will hold TKP on their balances to get access to additional functionality.

Subscription fees

TOKPIE will set subscription fees on a tiered basis (Standard, Premium and Enterprise). The amount of the subscription fee will depend on the user's monthly volume of trade. There will be no fee for users whose monthly trading volume is below US \$100,000 equivalent. See Fees section for the details.

Add-ons

TOKPIE will be able to provide start-ups with special order books for their token pre-sale and main sale campaigns, as well as with a post-token sale listing on the TOKPIE platform. By using our solution, start-ups can save a lot of time and money by directly accessing TOKPIE's user base. Companies can also purchase the listing on our exchange (after anti-scam validation).

Ordinary users can make one-time acquisitions of special tools like the cross-exchange spread analysis tool, cross-countries, etc.

Collaterals

TOKPIE will provide the advantages of popular centralized exchanges by allowing users to utilize their coins, holding onto the account balances inside the platform for leverage and marginal trading.

Utility Token Usage

TKP tokens are utility tokens whose entire value derives from the services provided by the TOKPIE platform in exchange for holding or consuming the tokens, as detailed above. They are not intended for speculation and hold no claim to intellectual or other property or cash flows. They grant no right to participation in the company, and no claim in decision-making over company assets or strategy. There is no promise of value beyond usage value, nor any claim on assets or revenue associated with TKP.



5.4 Financial plan

This section presents TOKPIE's financial forecasts for the period from 2019 to 2022. Financial projections include: Profit & loss statements, Balance sheet statements, Cash Flow statements.

The following key assumptions have been included:

- Payment Fees: The figures assume that 90% of users will be served free of charge; the remaining 10% incur various fees (subscriptions, add-ons, leverage via P2P lending instruments, membership, etc.).
- No deposit or withdrawal fees, except those charged by the miners (e.g. gas for Ether transactions).
- Annual revenue from add-ons sold is based on US\$10k fee per one token listing or token sale infrastructure provision.
- Annual revenue from leverage provided via P2P lending instruments is based on the 5% effective rate of return (interest fee). Funds used for lending instruments will be derived only from TOKPIE free float of assets, and not from users' crypto deposits.
- Direct cost of sales: 36% revenue share paid to affiliates from subscriptions and leverage interest fees collected by TOKPIE.
- Funds obtained from token sale: 25000 ETH, where 1 ETH = US\$600.
- Funds from growth reserve will be steadily obtained over the four years and invested in the platform's growth: $21\% \times (25000 \text{ ETH} / 0.65) = 8077 \text{ ETH}$, where 1 ETH average price for the period from 2019 to 2023 = US\$ 1500.

TOKPIE platform				
Statement of Profit & Loss				
4-years forecast				
(in US dollars)				
	Year 1	Year 2	Year 3	Year 4
Revenue	14 520 000	72 790 000	146 730 000	221 950 000
Cost of sales	5 184 000	26 118 000	52 650 000	79 686 000
Gross profit	9 336 000	46 672 000	94 080 000	142 264 000
Advertisement and marketing expenses	14 000 000	21 000 000	35 000 000	50 000 000
Development expenses	4 000 000	3 000 000	3 000 000	3 000 000
Expenses on security	4 000 000	2 500 000	2 500 000	2 500 000
Support service expenses	1 800 000	9 000 000	18 000 000	27 000 000
Administrative expenses	270 188	320 000	320 000	320 000
Legal expenses	2 200 000	1 500 000	1 200 000	1 000 000
Other gains and losses	270 188	52 688	52 688	52 688
Profit before tax for the period	(17 204 375)	9 299 313	34 007 313	58 391 313
Income tax expense	-	-	-	-
Total Profit (Loss) for the period	(17 204 375)	9 299 313	34 007 313	58 391 313

Key assumptions:				
User acquisition cost	12	4	3	3
Number of Users	1 200 000	6 000 000	12 000 000	18 000 000
Number of Paid Users	120 000	600 000	1 200 000	1 800 000
Average annual subscription fee per Paid User	120	120	120	120
Revenue from subscriptions	14 400 000	72 000 000	144 000 000	216 000 000
Number of listings and token sale infrastructure provided	12	24	48	60
Revenue from add-ons	120 000	240 000	480 000	600 000
Revenue from short term p2p loans provided	0	550 000	2 250 000	5 350 000
Total:	14 520 000	72 790 000	146 730 000	221 950 000

» P&L Statement, 4-year forecast



TOKPIE platform

Statement of Financial Position
4-years forecast
(in US dollars)

	Year 1	Year 2	Year 3	Year 4
ASSETS				
Non-current assets				
Property and equipment	98 000	196 000	411 600	905 520
Other intangible assets	55 000	110 000	231 000	508 200
Total non-current assets	153 000	306 000	642 600	1 413 720
Current assets				
Short term p2p crypto loans provided		11 000 000	45 000 000	107 000 000
Cash and cash equivalents	551 471	1 696 629	4 386 188	2 995 227
Total current assets	551 471	12 696 629	49 386 188	109 995 227
TOTAL ASSETS	704 471	13 002 629	50 028 788	111 408 947
EQUITY AND LIABILITIES				
Equity and reserves				
Equity investments	15 000 000	15 000 000	15 000 000	15 000 000
Growth reserve invested	3 028 846	6 057 692	9 086 538	12 115 385
Retained earnings	(17 204 375)	(7 905 063)	26 102 250	84 493 562
Total equity	824 471	13 152 629	50 188 788	111 608 947
Non-current liabilities				
Total non-current liabilities	-	-	-	-
Current liabilities				
Trade and other payables	(120 000)	(150 000)	(160 000)	(200 000)
Total current liabilities	(120 000)	(150 000)	(160 000)	(200 000)
TOTAL EQUITY AND LIABILITIES	704 471	13 002 629	50 028 788	111 408 947
Key assumptions				
Funds obtained from token sale	15 000 000			
Funds obtained from Growth reserve	3 028 846	3 028 846	3 028 846	3 028 846
Total:	18 028 846	3 028 846	3 028 846	3 028 846

» Balance Sheet, 4-year forecast

TOKPIE platform

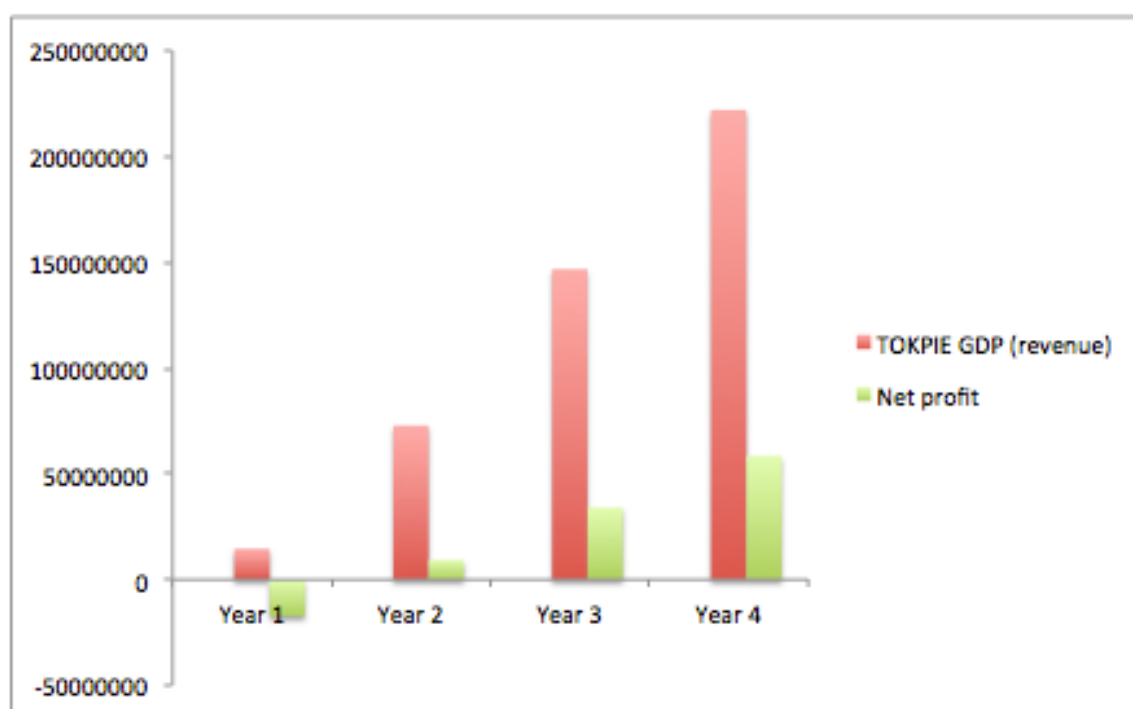
Statement of Cash Flows
4-years forecast
(in US dollars)

	Year 1	Year 2	Year 3	Year 4
Cash flows from operating activities				
Cash received from customers	14 520 000	72 240 000	144 480 000	216 600 000
Cash paid to affiliates	(5 184 000)	(26 118 000)	(52 650 000)	(79 686 000)
Cash paid for operating expenses	(26 660 375)	(37 402 688)	(60 082 688)	(83 912 688)
Net cash provided by operating activities	(17 324 375)	8 719 313	31 747 313	53 001 313
Cash flows from investing activities				
Purchase of equipment	(153 000)	(153 000)	(336 600)	(771 120)
Proceeds from token sale	15 000 000	-	-	-
Proceeds from growth reserve usage	3 028 846	3 028 846	3 028 846	3 028 846
Cash paid for operating expenses				
Net cash used in investing activities	17 875 846	2 875 846	2 692 246	2 257 726
Cash flows from financing activities				
P2P crypto loans provided	-	(11 000 000)	(34 000 000)	(62 000 000)
Proceeds from p2p crypto loans provided	-	550 000	2 250 000	5 350 000
Net cash provided (used) in financing activities	-	(10 450 000)	(31 750 000)	(56 650 000)
Net increase (decrease) in cash	551 471	1 145 159	2 689 559	(1 390 961)
Beginning cash balance	-	551 471	1 696 629	4 386 188
Ending cash balance	551 471	1 696 629	4 386 188	2 995 227

» Cash Flow statement, 4-year forecast



Key metrics:	Year 1	Year 2	Year 3	Year 4
TOKPIE GDP (revenue)	14 520 000	72 790 000	146 730 000	221 950 000
Net profit	(17 204 375)	9 299 313	34 007 313	58 391 313
ROI		44%	141%	215%



5.5 Legal issues

Legal Structure

The TOKPIE platform described in this Whitepaper is being developed and managed by Graceful Globe Limited (a company incorporated in Hong Kong). Another company may be established in another jurisdiction because of regulatory or other reasons. Graceful Globe Limited provides services to end users and business entities providing them with access to the TOKPIE platform features.

Disclaimer

TO THE FULLEST EXTENT PERMITTED BY APPLICABLE LAW AND EXCEPT AS OTHERWISE SPECIFIED IN WRITING BY US, (A) TOKPIE TOKENS (TKP) ARE SOLD ON AN – “AS IS” AND – “AS AVAILABLE” BASIS WITHOUT WARRANTIES OF ANY KIND, AND WE EXPRESSLY DISCLAIM ALL IMPLIED WARRANTIES AS TO TOKPIE TOKENS (TKP), INCLUDING,



WITHOUT LIMITATION, IMPLIED WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE, TITLE AND NON-INFRINGEMENT; (B) WE DO NOT REPRESENT OR WARRANT THAT TOKPIE TOKENS (TKP) ARE RELIABLE, CURRENT OR ERROR-FREE, MEET YOUR REQUIREMENTS, OR THAT DEFECTS IN TOKPIE TOKENS (TKP) WILL BE CORRECTED; AND (C) WE CANNOT AND DO NOT REPRESENT OR WARRANT THAT TOKPIE TOKENS (TKP) OR THE DELIVERY MECHANISM FOR THEM ARE FREE OF VIRUSES OR OTHER HARMFUL COMPONENTS.

You must comply with all laws and regulations that apply to you in any place in which you purchase, offer or sell any TOKPIE tokens (TKP). You must also obtain any consents, permissions or approvals that you need in order to purchase, offer or sell any TOKPIE tokens (TKP) under the laws and regulations in force in any jurisdiction to which you are subject or in which you make such purchases, offers or sales. We are not responsible for your compliance with these legal requirements. We are not making any representation to you regarding the legality of your investment in the TOKPIE tokens (TKP) under any legal investment or similar law or regulation in any jurisdiction.

Risks

An investment in TOKPIE and TKP Tokens carries with it significant risk. You should carefully consider all of the information in this Whitepaper, including the following risk factors, as well as terms of the SAFT agreement or any other document related to the sale of the TOKPIE tokens (TKP), before deciding to invest in the TOKPIE and TKP Tokens. The actual occurrence of any of the following events could have a material adverse effect on the development of TOKPIE platform, TOKPIE's business, prospects and results of operations, which may adversely affect your ability to receive gains or returns on your investment.

Most of these factors are contingencies that may or may not occur, and we are not in a position to express a view on the likelihood of any such contingency occurring. The risks described below are not complete and are only those that we believe are principal, but these may not be the only risks and uncertainties that TOKPIE may face in the future. Additional risks that are not currently known or anticipated or that are currently deemed insignificant may also have a material adverse effect on the development of TOKPIE platform, TOKPIE's business, prospects and results of operations. Thus, you can lose a substantial portion or all of your investment in the TOKPIE and TKP tokens. Consequently, investments in the TOKPIE and TKP tokens should only be considered by persons, which can assume those risks. Prior to participation, carefully consider the potential risks and, to the extent necessary, consult a lawyer, accountant, and/or tax professional to evaluate the risk entailed.

The token economy is relatively new and incredibly innovative. Tokens could be impacted by regulatory actions, including restrictions on ownership, use, or possession. There is no guarantee that TOKPIE and TKP tokens purchased will increase in value, provide a return, or will have sufficient adoption and liquidity to enable exchange for other assets. Ethereum, on which TKP tokens are based, is an experimental technology and all possible future risks cannot be enumerated here. We do not assume responsibility for any losses that may occur. Please exercise caution with all cryptographic assets and do not invest money that you cannot afford to lose.

WE MAKE NO PROMISES OF POSSIBLE GAINS OR RETURNS. YOU CAN POTENTIALLY LOSE ALL YOUR MONEY IF THE MARKET PRICE OF TOKPIE TOKENS (TKP) DROPS TO ZERO.

Risk of losing access to TOKPIE tokens (TKP) due to loss of private Key(s).

TOKPIE tokens (TKP) are ERC20 tokens, which are based on the Ethereum blockchain. You must access and use them using an ERC20-compliant wallet. It is your responsibility not to lose your Tokens by losing access to the keys, which allow access to your wallet and/or allowing malicious third parties to access your keys and/or your wallet. TOKPIE WILL NOT BE HELD LIABLE FOR ANY LOSS OF TOKPIE TOKENS (TKP) AND/OR OTHER DAMAGE INCURRED BY YOU AS A RESULT OF THE LOSS OF KEY OR ATTACK ON YOUR WALLET.

Risks associated with licensing

Operation and sustainable development of the TOKPIE platform will depend on the continuing validity of any necessary licenses in the jurisdictions of its operation, as well as its compliance with the terms of such licenses. Although we intend to apply for the necessary permits, there is a risk that licenses needed for TOKPIE



business may not be issued in a timely fashion or at all or may be subject to onerous conditions. Further, even if the license is issued there can be no assurance that it will not be subsequently recalled or that it will be successfully renewed. Failure to obtain, maintain or renew necessary licenses may have a material adverse effect on TOKPIE's business, prospects and results of operations.

Risks of uncertain regulations and enforcement actions

The regulatory status of ERC-20 Tokens and distributed ledger technology is unclear or unsettled in many jurisdictions. It is difficult to predict how or whether regulatory agencies may apply existing regulation with respect to such technology and its applications. It is likewise difficult to predict how or whether legislatures or regulatory agencies may implement changes to law and regulation affecting distributed ledger technology and its applications. Regulatory actions could negatively impact the TOKPIE Platform in various ways, including, for purposes of illustration only, through a determination that the purchase, sale, delivery or use of TOKPIE tokens (TKP) constitutes unlawful activity, or that registration or licensing is required for some or all of the parties involved in the purchase, sale, delivery or use of TOKPIE and TKP tokens. TOKPIE may cease operations in a jurisdiction in the event that regulatory actions, or changes to laws or regulations, make it illegal to operate, or commercially undesirable to obtain necessary regulatory approval(s) to operate, in such jurisdiction.

Risks associated with the Ethereum blockchain

Because TOKPIE tokens (TKP) are based on the Ethereum blockchain, any malfunction, breakdown or abandonment of the Ethereum blockchain may have a material adverse effect on TOKPIE tokens.

Risks of the volatility of Ethereum price

We allow investments for the development of the TOKPIE platform to be made in cryptocurrency, such as Ether. As a general matter, the rate at which any such cryptocurrency can be exchanged into fiat currency is extremely volatile. While TOKPIE will exercise our management skills to the maximum extent possible when spending the collected cryptocurrency or exchange it into fiat currency for the platform development needs, there can be no guarantee that we will not lose part or the entire value of the investments because of decrease in cryptocurrencies' value at a particular point in time.

Risks of taxation

The tax characterization of TOKPIE tokens (TKP) is uncertain. You must seek your own tax advice in connection with purchasing TOKPIE tokens (TKP), which may result in adverse tax consequences to you, including withholding taxes, income taxes and tax reporting requirements.

Risk of high competition

It is possible that alternative platforms could be developed and the TOKPIE Platform will have to compete with these alternative platforms, which could negatively impact the adoption of the TOKPIE Platform.

Risk of insufficient demand on TOKPIE platform

It is possible that the TOKPIE Platform will not be used by a large number of individuals, companies and other entities or that there will be limited public interest. Such a lack of use or interest could negatively impact the development of the TOKPIE Platform.

Risks arising from no redemption of the TOKPIE tokens (TKP)

The owners of TOKPIE tokens (TKP) will not have the right to compel the TOKPIE platform and Graceful Globe Limited to redeem TOKPIE tokens (TKP). While the owners of the TOKPIE tokens (TKP) may resell the tokens to other parties (subject to any applicable transfer restrictions), in case the secondary market for these tokens is not developed for a long time or at all, investors in TOKPIE tokens (TKP) must be prepared to bear the risks of an investment in tokens for an extended period of time and loss of the investment or its part.



6. TOKEN SALE

The TOKPIE token crowd-sale is divided into two parts: pre-sale and main sale. The preliminary token sale (pre-sale) will fund the promotion of the platform to spread awareness about TOKPIE as well as the development of the platform. The main token sale will fund full development and adoption of TOKPIE's exchange platform.

The pre-sale will begin on **May 01, 2018** and will end on **May 14, 2018**, or when the hard cap of 1,000 ETH is reached. The maximum total number of tokens available for purchase during this preliminary sale will be 1,920,000. Each TOKPIE token (TKP) will be priced at 0,0005208 ETH (exchange rate: **1 ETH = 1920 TKP**). That price includes a **20%** discount off the main sale price. If the soft cap for pre-sale (500 ETH) is not reached, then the collected funds are refunded to contributors from the smart contract.

The main sale will begin on **June 01, 2018** and will end on **July 7, 2018**, or when the hard cap of **25,000 ETH** is reached; this includes Ether already collected during the pre-sale. The hard cap will limit the maximum total supply of tokens during the main sale. The TKP tokens distributed during the token sale will be 65% of the total supply. Each TKP token will be priced on a sliding scale depending on the period of purchase, according to the following schedule:

Period: from June 01, 2018 to June 7, 2018 _ Price: **1 ETH = 1840 TKP; 15% discount**

Period: from June 08, 2018 to June 14, 2018 _ Price: **1 ETH = 1760 TKP; 10% discount**

Period: from June 15, 2018 to June 21, 2018 _ Price: **1 ETH = 1680 TKP; 5% discount**

Period: from June 22, 2018 to June 28, 2018 _ Price: **1 ETH = 1648 TKP; 3% discount**

Period: from June 29, 2018 to July 5, 2018 _ **Price: 1 ETH = 1600 TKP; 0% discount.**

Tokens will be transferred to contributors immediately after his or her contribution is accepted by the smart contract.

During the pre-sale and the main sale the following limits will be applied on the size of contributions:

- *Maximum contribution level in Ethereum is unlimited*

- *Minimal contribution level in TOKPIE tokens = 100 TKP*

TOKPIE's token is called TOKPIE and has the symbol TKP (check Etherscan). TKP token will be used for payment of subscription fees, add-ons and interest inside the TOKPIE exchange. It will be used to drive the engagement of users into the platform through gamification of support services and the Advocacy Bonus program. Find out more about TKP tokens usage in the Tokenomics section.

TKP token is compliant with Ethereum blockchain and ERC20 in order to leverage the functionality of the Ethereum blockchain and seamlessly interact with other ERC20 tokens and related smart contracts and Dapps. TKP tokens will be listed on other exchanges in the 30 days following the end of the token sale.

TKP tokens are highly integrated into TOKPIE's business model and have significant, long-term utility in driving the growth of the platform.

- TKP are distributed to users through the token sale or as remuneration to users from TOKPIE reserves for support services provided to other users, participation in affiliate programs and other activities.

- The core platform services are free to every user. However, traders will be charged for some special services, add-ons or for high volumes of trade (>US\$100,000 equivalent). All fees will be paid in TKP tokens.



• The P2P loans provisions as well as leverage and marginal trading services will be charged with interest that shall be paid in TKP tokens.

• With a growing number of traders attracted to the platform by its safety measures, reliable support and unique trading features, the demand for TKP tokens is expected to increase. TOKPIE and its team are confident in the future platform growth and will retain 21% share of tokens which can be unlocked over a four-year period. (Team pool tokens are locked on two years).

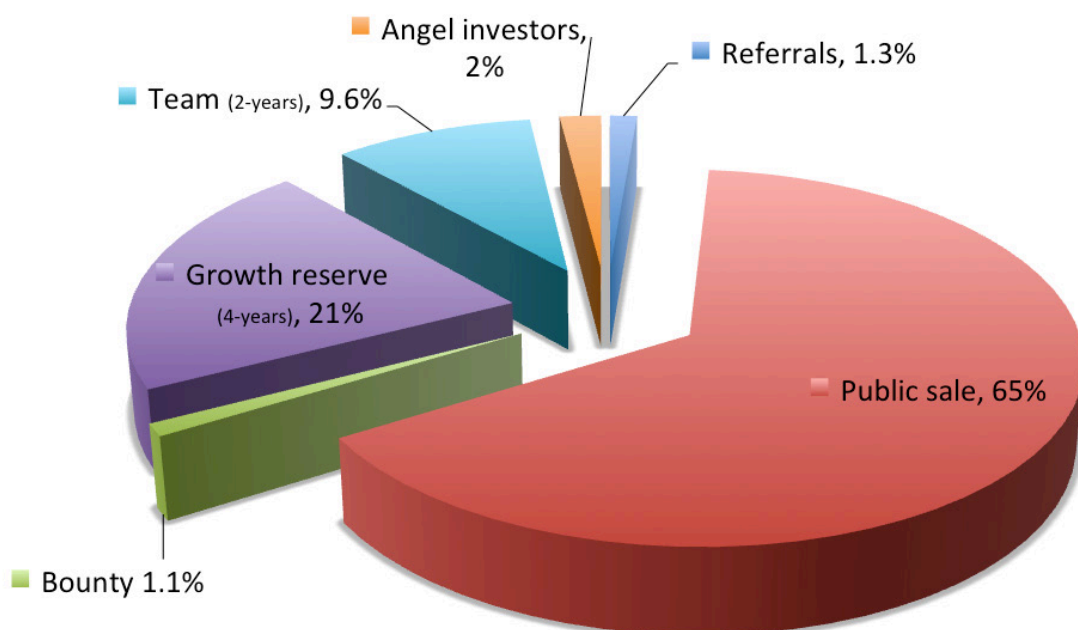
6.1 Token Allocation

The total supply of TKP tokens available will be the number of tokens sold during the crowd sale, divided by 0.65.

For example, if 10,000,000 of TKP are sold during the public crowd sale, then the total supply of TKP tokens available will be 15,384,615 of which 65% (10,000,000) will be allocated to the contributors.

The remaining 35% (5,384,615) of TKP tokens will be issued as following (Pie chart 1):

- 21% will be issued to TOKPIE's reserves over the next four years in equal installments (2.625%) every six months after the end of token sale*;
- 9,6% will be issued to TOKPIE's team pool over the next two years in equal installments (2.4%) every six months after the end of the token sale**;
- 2% will be issued to TOKPIE's angel investors pool after the end of the token sale;
- 1.3% will be issued to the contributors' referral bonus pool after the end of the token sale;
- 1.1% will be issued to cover bounty campaign after the end of the token sale



» Pie Chart 1. TOKPIE Tokens Allocation



*** The schedule of releasing TKP tokens to TOKPIE's reserves during the four years after the token sale:**

- January 03, 2019: 2.625% of total supply of TKP tokens
- July 05, 2019: 2.625% of total supply of TKP tokens
- January 03, 2020: 2.625% of total supply of TKP tokens
- July 04, 2020: 2.625% of total supply of TKP tokens
- January 02, 2021: 2.625% of total supply of TKP tokens
- July 04, 2021: 2.625% of total supply of TKP tokens
- January 02, 2022: 2.625% of total supply of TKP tokens
- July 04, 2022: 2.625% of total supply of TKP tokens

**** The schedule of releasing TKP tokens to TOKPIE's team pool during the two years after token sale:**

- January 03, 2019: 2.4% of total supply of TKP tokens
- July 05, 2019: 2.4% of total supply of TKP tokens
- January 03, 2020: 2.4% of total supply of TKP tokens
- July 04, 2020: 2.4% of total supply of TKP tokens

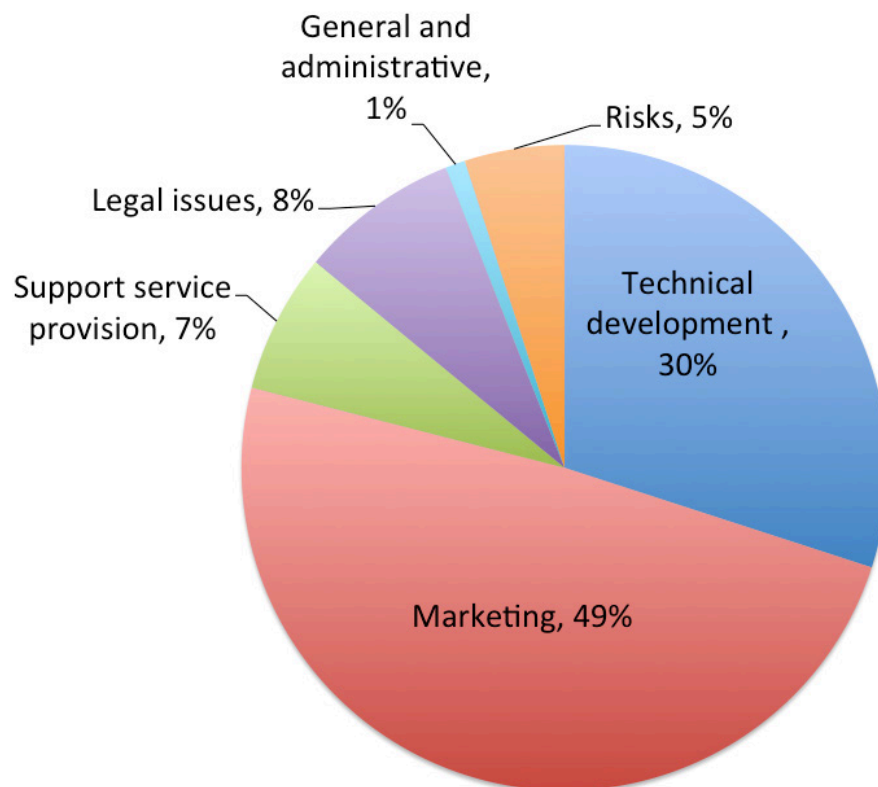
6.2 Allocation of Funds

The funds raised during the token pre-sale will be used to speed up the development of the product and fund the TOKPIE marketing campaign promoting the main TKP token sale campaign.

The funds raised during the main token sale campaign will be allocated as follows (Pie Chart 2) :

- Technical development (Security, UI, etc.): 30%
- Marketing: 49%
- Support service provision: 7%
- Legal service: 8%
- General and administrative: 1%
- Risks: 5%





» Pie Chart 2. TOKPIE's Funds Allocation

6.3 Token Sale Restrictions

Residents of the following countries and regions will NOT be able to acquire TOKPIE (TKP) tokens:

China, Hong Kong, USA, Ethiopia, Iran, Iraq, Cuba, Syria, Sudan, Crimea, North Korea, Seychelles, Sri Lanka, Somalia, Trinidad, Tobago, Tunisia, Vanuatu, Vietnam, Yemen.

Each TOKPIE token sale participant has to be verified in order to take part in the TKP token sale.

If you have questions feel free to contact our Support Team: info@tokpie.com



7. ROADMAP

Q2 2017

Idea shaping, awareness of the problem and solution - COMPLETED

Q3 2017 - Q2 2018

MPV development - COMPLETED

April 27, 2018

Public release of Alpha - COMPLETED IN ADVANCE

May 01, 2018

Token pre-sale

June 01, 2018

TOKEN SALE

Q3 2018

Private and public beta testing

Q4 2018

Security, UI and support infrastructure development

Q1 2019

Launch: Initial version of the TOKPIE exchange platform is 100% developed and tested. The Alpha version is available to the public before the token pre-sale. It supports 226 countries, three base cryptocurrencies (BTC, ETH, LTC), 32 quote currencies (19 fiat + 13 major cryptocurrencies) and 33 payment methods. Many more cryptocurrencies and payment methods will be supported and added each month after the launch.

The additional services from the Unlimited Scalability section will be steadily developed and provided during 2019. The mobile version of the platform will be available at the end of 2019.



8. TEAM

TOKPIE's team consists of highly experienced professionals. The core of the team is represented by top-level specialists from technical development, finance, accounting, and legal fields of practice.

Vasilii Silin

CEO / CO-FOUNDER

Bio: Economist, Finance and Accounting expert. 11 years of experience in international financial and accounting sector. Blockchain enthusiast. Co-founder of the world's first global biomass exchange platform.

Oleg Kovalev

CTO / CO-FOUNDER

Bio: Full stack web developer and blockchain enthusiast. Founder of Everlive LLC web studio. A former head of MegaFon IT Service Management Department.

Andrey Pak

CTO / CO-FOUNDER

Bio: IT professional with 16 years of practical experience. Blockchain enthusiast. Specialized in development and integration ITSM, ITIL, etc. Expert in Java, JavaScript, PHP, and application infrastructures.

Ekaterina Diukareva

CSO / CO-FOUNDER

Bio: Entrepreneur, Biology sector background. Five years' experience in renewable energy sector. Co-founder of Graceful Globe Limited and the world's first global biomass exchange platform. Keen interest in Blockchain.

Firmansyah Dolot

Branding and WEB animation

Bio: Founder of Flixmotion, one of the industry leaders in the production of explainer videos, product demos, video commercials, motion-graphics, as well as creative web design interfaces. Blockchain enthusiast.

Vina Kharaz

Social media and project management

Bio: Organize marketing campaign of Sputnik News reaching more than 1.1 million likes on Facebook, 20k Instagram and 50k Twitter followers. Blockchain enthusiast.

Ruth Doris

Editor and content writing

Bio: Journalist with 12 years' experience as an editor, reporter and features writer. Contributor to the Irish Examiner's business section.



Alexey Potapov

Social media and project management

Bio: Professional development in the field of blockchain and crypto industry. Organized marketing campaign of BCharity; a revolutionary charity exchange designed to increase the accessibility and efficiency of charity across the world.

Jillian Godsil

Editor and content writing

Bio: PRO Mingo, TOKEN SALE Advisor, Crypto Journalist, Blockchain Speaker, Broadcaster DublinCityFM. Writer and Dreamer.

Morgan Pierce

Token Sale Advisor, Tokenomics, Content Marketing and Messaging

Bio: Morgan has been in venture capital for 20 years, since the dotcom days! Content and Bounty Marketing Expert, Cryptocurrency Evangelist, Speaker & Educator, Token Sale Advisor.

Parham (Paul) Sadrizadeh

Security and Blockchain Technical Advisor, Cyber Security Expert

Bio: Co-founder of XEEDA, the world's first hardware and cryptocurrency wallet for smartphones. More than 12 years' experience in security, computer networks and systems. Parham holds a dual master's degree in applied information technology and cybersecurity.



9. CONTACT US

To contribute to the token sale or subscribe to announcements visit TOKPIE's website:

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Check TOKPIE smart contract on Github: <https://github.com/TOKPIE/TOKPIE-contract>

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