



FIRST EVER
COMMODITY - CRYPTO EXCHANGE

WHITEPAPER

Contents

1. INTRODUCTION.....	2
2. BLOCKCHAIN TECHNOLOGY	3
3. CHALLENGES OF CURRENT CRYPTO CURRENCY EXCHANGE	5
4. DIGITAL TICKS EXCHANGE (DTx).....	7
5. DIGITAL TICKS EXCHANGE REVENUE MODEL	12
6. ROADMAP	13
7. DTx TOKENS	14
8. DTx TOKENS USE CASES & REPURCHASING PLAN.....	16
9. DTx FUNDS USAGE	17

1. INTRODUCTION

A First ever commodity - crypto exchange well designed by traders for traders. Digital Ticks Exchange (DTx) is just not another crypto to crypto exchange but is also a semi-algorithm platform provider in its own. DTx plans to cater to all types of crypto assets as well as commodity to crypto assets. DTx would be power packed by a lot of advanced features including all the basic features of an exchange required by a novice trader to a professional trader as well as for a high frequency trader. In terms of security DTx is taking extra precautionary measures to avoid any kind of hacks like DDoS attacks, phishing attempts and by also performing vulnerability assessments and penetration testing. DTx has installed robust technologies behind the scene that could handle heavy volatility of the crypto markets as well as commodity markets which can handle upto 1,000,000 orders per second.

Digital Ticks Exchange team believes into robust technology, ahead of industry standards in terms of providing customer service to its stakeholders as well as traders. Digital Ticks Exchange team ensures all its traders to have a smooth and user friendly trading experience.

Digital Ticks Exchange would not levy any transaction charges for first few months of inception thereby giving traders to trade on zero transaction charges. DTx would give volume-based incentive for high frequency trader (HFT) which would give them scope for retaining higher profitability in the trade.

2. BLOCKCHAIN TECHNOLOGY

Blockchains are secure by design and are an example of a distributed computing system with high fault tolerance. Decentralized consensus has therefore been achieved with a blockchain. This makes blockchains potentially suitable for the recording of events, medical records, and other records management activities, such as identity management, transaction processing, documenting provenance, food traceability or voting.

Benefits of Blockchain Technology

- Decentralization
- Transparency and trust
- Immutability
- High availability
- Highly secure
- Simplification of current paradigms
- Faster dealings
- Cost saving
- Peer-to-peer global transactions

Use Cases

➤ Stock exchange

The notion of using blockchain technology for securities and commodities trading has been around for a while. Given the open-yet-reliable nature of blockchain systems, it isn't surprising to hear that stock exchanges now consider it as the next big leap forward.

In fact, Australia's stock exchange is already dead set on switching to a blockchain-powered system for their operations.

<https://www.bloomberg.com/news/articles/2017-12-06/blockchain-scores-major-win-as-australian-exchange-plans-shift>

➤ **Cryptocurrency Volume**

The cryptocurrency market is now doing the same daily volume as the New York Stock Exchange

Dec. 20, 2017 LONDON — Global cryptocurrency markets are now averaging the same daily trading volumes as the New York Stock Exchange. Twenty-four-hour trade volume in the cryptocurrency market passed the \$50 billion mark on Wednesday, according to the data provider CoinMarketCap.com. That is close to the average daily volume of trade on the New York Stock Exchange this year. Daily trading volumes on the London Stock Exchange hover at about £5 billion, or \$6.7 billion. The comparison is inexact, as the cryptocurrency market is arguably closer to the foreign-exchange market, which has daily volumes of over \$5 trillion.

Cryptocurrency Market Cap & Volume

Date	Market Cap	24 Hr Volume
01-01-2016	7.17 B	48.15 M
01-01-2017	17.73 B	130.05 M
01-01-2018	612.92 B	31.42 B

Source: coinmarketcap.com

3. CHALLENGES OF CURRENT CRYPTO CURRENCY EXCHANGE

➤ Lack of Liquidity

Lack of liquidity is a concern for all the traders in the market as it increases the impact cost / cost of investment while trading and makes it difficult for them to trade. This majorly happens because not many people are buying and selling assets on the exchange thereby creating a thin depth in the market.

Digital Ticks Exchange would have dedicated market makers who would provide continuous depth and liquidity in the market. Digital Ticks Exchange team has a decade of market making experience in global financial derivatives market.

➤ Inefficient customer service

Currently customer service is posing a major problem to the trader community. Delivery of customer service is very slow, they don't even respond to queries for days, long withdrawal times, login issues and funds locked into the exchange with nobody to guide for the same. When dealing with such large amount of funds it becomes essential to have a team of professionals to solve customer queries.

Digital Ticks Exchange team understands the trader mindset where every nano-second of trading is important. To cater to the same Digital Ticks Exchange team has built up a dedicated customer service oriented team who would be ready to solve the queries of the trader on the go.

➤ Security

Cryptocurrency Exchanges that carry customer's funds in huge volume have become a target for hackers and internal frauds. These security concerns make deposits into these exchanges unsecured.

Digital Ticks Exchange team ensures that the security system will undergo continuous improvement, regular IT security and financial audits. Digital Ticks Exchange team would perform vulnerability scans & assessments, security assessments and penetration testing.

➤ **Latency Problem**

Increase in new registrations, sudden spike in volumes, inappropriate infrastructure, unstable connection quality and exchanges reaching its limits in terms of order per second results into latency problems.

Digital Ticks Exchange team has over a decade of trading experience and understands the price volatility in crypto world. If there is a slight delay in the update of price then a trader can face heavy losses. For the same Digital Ticks Exchange team would provide robust technology in place and is committed to upgrade the same from time to time.

➤ **Downtime**

Shutdown of exchange without any information can cause huge financial losses to traders who cannot place or modify their orders especially when market is highly volatile. Users trading come to a halt and they cannot withdraw their own fund from the exchange which results into loss of trust on the exchanges.

Digital Ticks Exchange team would perform scheduled maintenance by updating their registered users in advance.

4. DIGITAL TICKS EXCHANGE (DTx)

➤ **Features – (To be rolled out on platform in following order)**

- Crypto- Crypto Currency Pair
- Commodity- Crypto Pair
- Spot Trading
- Futures
- Algorithms & High Frequency trading
- Decentralized (on-chain) exchange
- Much more for ease of doing trading...

➤ **Trading Coins / Commodities**

Digital Ticks Exchange would support following trading coins / commodities:

- BTC
- ETH
- LTC
- NEO
- DTx
- GOLD
- SILVER

More trading pairs would be added over a period of time as per the demand of the trading community. If you wish to list a coin or any other financial instrument on Digital Ticks Exchange in future, participation in token sale will help.

➤ **Security**

We value and protect your privacy and the security of your wallet. Digital Ticks Exchange team has undergone lot of security checklist to keep client assets and personal data safe. Funds not necessary for immediate withdrawal are held in secure offline air gapped cold storage.

Cold storage in the context of Bitcoin refers to keeping a reserve of Bitcoins offline. This is often a necessary security precaution, especially dealing with large amounts of Bitcoin. Digital Ticks Exchange typically offer an instant withdrawal feature, so to minimize the possibility that an intruder could steal the entire reserve in a security breach, we will follow a best practice by keeping the majority of the reserve in cold storage, or in other words, not present on the web server or any other computer.

➤ **Multi Signature Wallets**

Digital Ticks Exchange would be using Multisignature (often called as multisig). Multisig is a form of technology which is used to add additional layer of security for cryptocurrency transactions. Funds can be withdrawn through Multisig wallet only if 2 out of 3 registered signatures matches on Blockchain Technology

➤ **Two-factor Google Authentication (2FA)**

Digital Ticks Exchange enforces two factor authentications (2FA) at the time of log in as well as at the time of withdrawal of crypto assets. Withdrawal of crypto assets would also require an email confirmation to protect the security of the user.

➤ **DDoS protection**

Digital Ticks Exchange would be using DDoS protection for its exchange to protect their users from any type of hacks. A DDoS (Distributed Denial of Service) attack is an attempt to exhaust the resources available to a network, application or service so that genuine users cannot gain access.

➤ **TRADING FEATURES**

- **Trading multiple instruments**

Trader can have an option to put multiple orders together in different instrument at the same time through a dedicated window provided by the Digital Ticks Exchange .

- **Single Click Portfolio View**

Trader will have an ease of looking at multiple instruments on a single screen named as portfolio view.

- **OCO (One cancels the other) Order**

Digital Ticks Exchange understands the unexpected volatility of cryptocurrency which can come at any time during 24 hours. Digital Ticks Exchange therefore believes in providing an ease to the trader by giving an option of OCO trading. Trader can place a square off order as well as the stop loss order simultaneously on the exchange and as soon as either of the order gets hit another order would automatically get cancelled, thereby provide trader with an ease of doing trading.

- **Trading through mouse and use of HOT KEYS**

Digital Ticks Exchange believes in providing utmost ease of trading and for the same Digital Ticks R&D team would also provide with an added feature of shortcut keys named as “Hot Keys” which would make trading easier for volume-based traders and High frequency traders to execute the trades. HOT KEY facility would be available on .exe set up only.

➤ **TRADING FEES AND INCENTIVES**

- **Volume based discount Model**

Digital Ticks Exchange would provide trading fee discount for its High-volume traders. To avail the Volume based discount a trader would require to hold 2000 DTx tokens in their wallet on the Digital Ticks Exchange with a minimum lock in period of 1 month. The details of same would be updated on website under Latest News section.

- **Maker & Taker concept**

Digital Ticks Exchange would be providing fee incentive to Maker. As the name suggests a trader who provides depth and liquidity on the exchange would be termed as maker, hence he would be eligible for a fee incentive, the details of which would be published through announcements on website under Latest News section. A taker is one who typically trades on the market prices and thereby their trades are considered as active trades.

- **Minimal Trading Fees**

Digital Ticks Exchange believes in giving more depth and liquidity to the participants by reducing the transaction charges. Digital Ticks Exchange would publish the competitive transaction charges on the website through the announcements.

➤ **MULTIPLE DEVICE COMPATIBILITY**

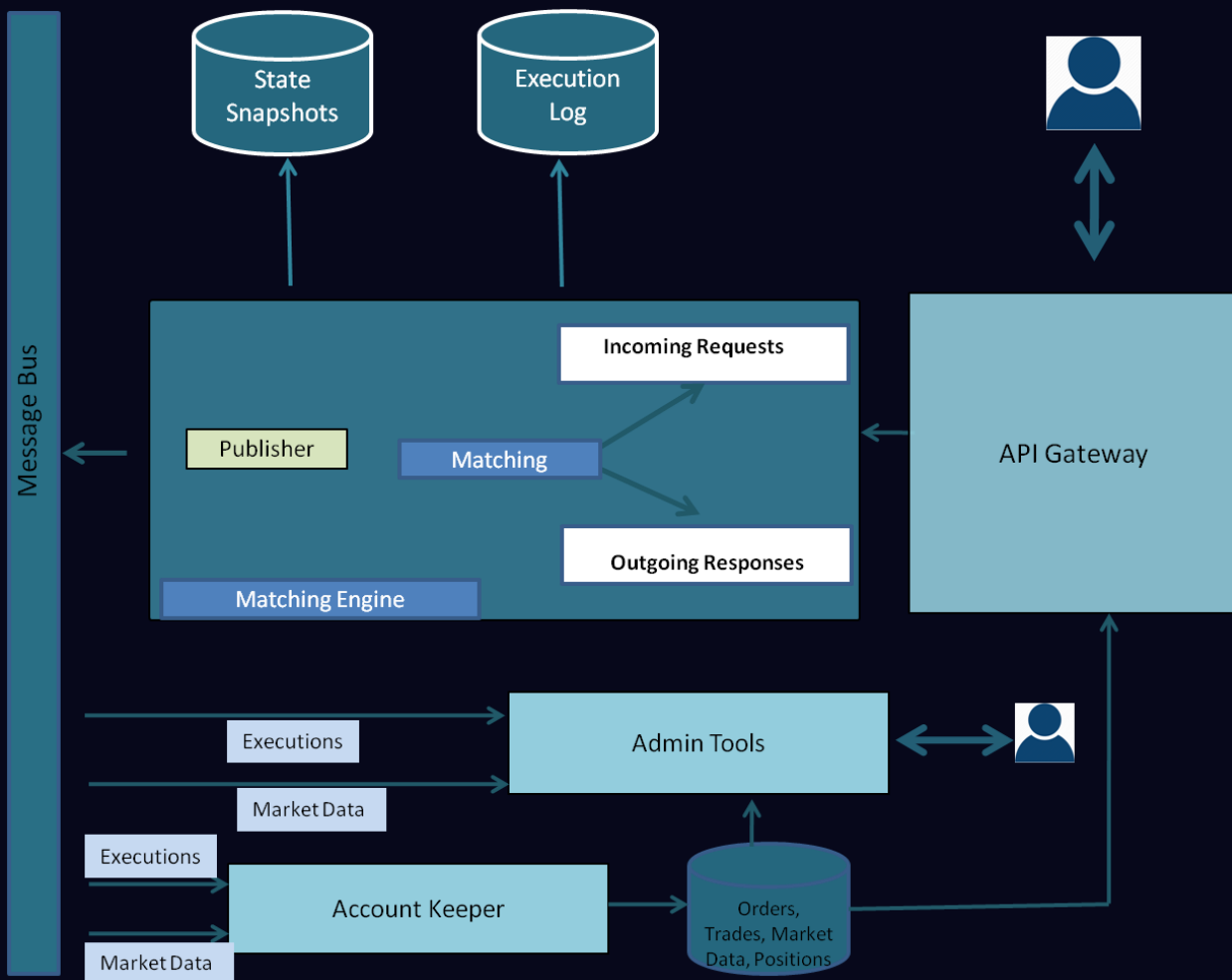
Digital Ticks Exchange believes in giving ease of trading to its registered users and to do so Digital Ticks Exchange would provide multiple device compatibility through cross platform trading benefits to their registered users

- Web based trading client
- PC (windows) native client
- Android Native app
- IOS native client (pending App Store review)
- API

➤ Referrals on DIGITAL TICKS EXCHANGE

Digital Ticks exchange will provide all the registered users with the unique referral link under their registered accounts section. Trader can share the link with their friends to avail a 5% benefit of the commission earned by the Digital Exchange Exchange. **Example:** If trader Rocky shares his referral code with Mr. Tin and Mr, Tin registers on Digital Exchange Ticks with the code provided by Rocky then every time Mr. Tin trades on the Digital Ticks Exchange he would be charged a commission fees which would be collected by Digital Ticks if the trade is an active trade. Digital Ticks would then calculate the commission received from Mr. Tin and would share 5% of the commission received from Mr. Tin to Rocky registered account.

DIGITAL TICKS ARCHITECTURE



5. DIGITAL TICKS EXCHANGE REVENUE MODEL

➤ Exchange Commission Fees

Digital Ticks Exchange initially will operate on zero transaction cost for its early adopter trader. However, there will be a charge of 0.1% on value going further down the line. Other features like maker-taker, volume-based incentives would be introduced subsequently from the date of operation of the exchange. Digital Ticks Exchange would have no plan to charge above 0.1% on value.

➤ Withdrawal Fees

Digital Ticks Exchange may charge a small fee for withdrawal.

➤ Listing Fees

Digital Ticks Exchange would be happy to list the tokens/coins/commodities depending on their innovations and demand from trading community. However, there may be a fee associated towards the listing process.

➤ Other Fees

Digital Ticks Exchange may charge a small fee for other features available on platform which would give ease of trading to traders.

6. ROADMAP

DTx token sale would be available to all as per below schedule. All times are GMT (+4)

Date	Launch Detail
15/12/2017	Idea Generation (Project Start Up)
02/01/2018	Development of User Interface prototype for Investors
20/01/2018	Planning of Launching DTx Token Sale
15/02/2018	Whitepaper circulated to Angel Investor
07/03/2018	Digital Ticks website goes Live and Whitepaper goes Public
25/03/2018	DTx Pre Token Sale begins
15/04/2018	DTx Public Token Sale Begins
15/06/2018	DTx Token sale Ends
20/06/2018	Launch of DTx Tokens on Leading Exchanges
01/08/2018	Launch of Digital Ticks Exchange (DTx) v 1.0
15/08/2018	Mobile Apps released
15/09/2018	Listing of additional Alt Coins
25/03/2019	Annual Ceremony
15/05/2019	1000+ cryptocurrencies listed, daily exchange volume expected 200000+ BTC.
15/07/2019	One of the Top 10 worldwide cryptocurrency Exchange Platforms
Quarter 4 2019	Listing of Digital Ticks Exchange IPO on recognized Stock Exchange

7. DTx TOKENS

DTx token would be available for purchase to public. DTx Token is an **UTILITY** Token. A strict limit of 128 MM DTx tokens will be created, never to be increased. DTx token will be a ERC20 compatible token and built on Ethereum blockchain technology.

Allocation of DTx Tokens

TOKEN SALE	50%	64,000,000
FOUNDING TEAM	20%	25,600,000
RESERVES	10%	12,800,000
REFERRAL	10%	12,800,000
ADVISOR	8%	10,240,000
BOUNTY PROGRAM	2%	2,560,000

DTx TOKENS

DTx token sale will be open for pre-sale from 25th March 2018. One can purchase DTx token by giving equivalent amount of **BTC / ETH / WIRE TRANSFER**. Wire transfer would be acceptable through our Intermediaries across the globe.

Token Name	DTx
Token Platform	Ethereum ERC – 20
Purchase Method	BTC/ETH/Wire Transfer
Token Type	Utility
Pre – Token Sale Period	25.03.2018 – 15.04.2018
Pre – Token Sale Price	1 DTx = 0.30 USD
Public Sale Period	15.04.2018 – 15.06.2018
Public Sale Token Price	1 DTx = 0.375 – 0.700 USD
Soft Cap	USD 5.7 Million
Hard Cap	USD 30 Million
Unsold Tokens	It will be burned after Token sale ends

DTx token sale would start from 15:00 hours (GMT+4) 25th March 2018, investors can buy the token in following phases. The early they buy the more benefit investor would get as the price would increase at every next level.

	PHASES	AMT. OF TOKEN ISSUE	PRICE (in USD)
	PRESALE	19,200,000	0.300
TIER 1	HARDCAP	9,600,000	0.375
TIER 2	HARDCAP	9,600,000	0.450
TIER 3	HARDCAP	12,800,000	0.575
TIER 4	HARDCAP	12,800,000	0.700
TOTAL		64,000,000	

DTx Tokens can be purchased by exchanging equivalent amount of BTC / ETH / WIRE TRANSFER. Wire transfer would be accepted through our Intermediaries across the globe.

REFERRAL PROGRAM DURING DTx TOKEN SALE PHASE

Each crowdsale participant will be provided with a unique referral URL.

- A referrer will receive an additional amount of DTx Tokens equal to 5% of the DTx Tokens bought by all of their referred buyers.
- This additional 5% is taken from the reserved 5% referral fund allocated.

For example:

- You and a friend both purchase 100 DTx Token, but your friend signs up using your referral link.
- You will receive: 105 DTx Token.
- Your friend will receive: 100 DTx Token.

8. DTx TOKENS USE CASES & REPURCHASING PLAN

DTx tokens would be used to pay fees on our platform , included but not limited to:

- Exchange trading fees
- Volume Based Incentive discount
- Withdrawal Fees
- Listing Fees
- Additional functionalities like research report, statistical calculation, etc
- Strategic Investment by beneficiary member of the exchange
- Any other fees

Exchange fee discounting model

Year	Discount Rate
1 st Year	50%
2 nd Year	40%
3 rd Year	30%
4 th Year	20%
5 th Year	10%
6 th Year	No discount

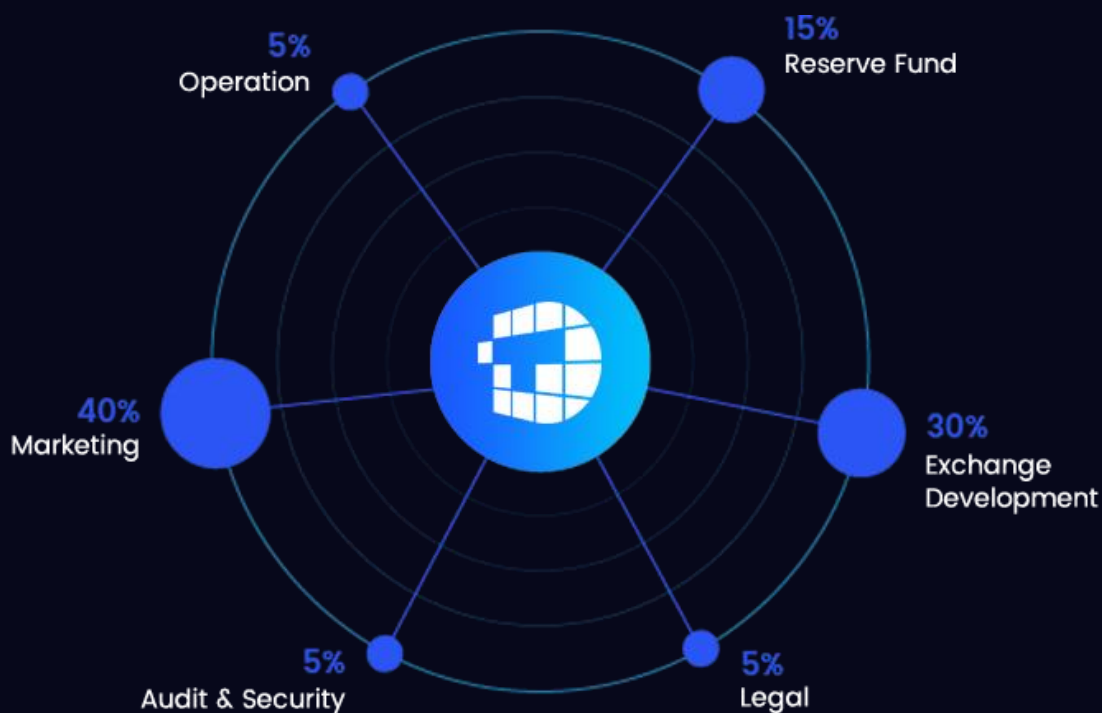
Repurchasing Plan

Digital Ticks team of founders are dedicated to create value for all its stakeholders and for the same Digital Ticks team would repurchase DTx tokens equivalent to 20% of last year total profit in four equal installments every quarter in the next year.

9. DTx FUNDS USAGE

All the funds received from the DTx Token Sale will be used for development of Digital Ticks Exchange Commodity - Crypto Platform

- Exchange Development: 30% of the funds will be used to build Digital Ticks Exchange platform and perform upgrades to the system, which includes team recruiting, training, and the development budget.
- Marketing: 40% of the funds will be used for Digital Ticks Exchange branding and marketing, including continuous promotion and blockchain innovations in industry mediums. Only word of mouth publicity would not be sufficient to help Digital Ticks Exchange become popular among investors, and to attract active users to the platform it will also have to conduct various advertisement activities.
- Reserve Fund: 15 % of the funds will be held in reserve for liquidity to be allocated as needed



- Legal: 5% of the funds will be used for legal framework. It will be needed to attain required licenses for expansion into different states and countries and legal analysis to ensure we are adhering to all the regulatory requirements. Legal compliance is the key to success of Digital Ticks Exchange.
- Operation: 5% of the funds will be used for day to day activities of the exchange, customer support, employees salary, server cost and so on
- Audit & Security: 5% of the funds will be used to make sure security of all crypto assets aiming to achieve banking industry level auditing and security compliance.

WHITEPAPER PROPOSED BY

JITU BAJAJ and MAYUR PODDAR
(On Behalf of Digital Ticks)

DISCLAIMER

This Whitepaper is for discussion purpose only and Sole Intellectual property of Digital Ticks