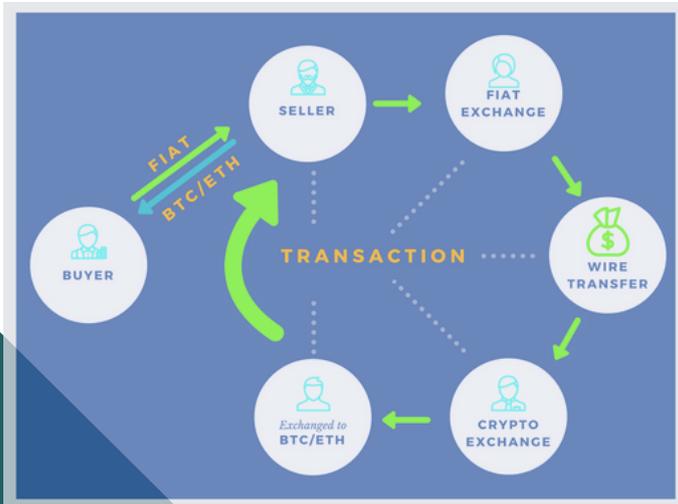# Trendercoin Whitepaper

Version 1.5

01 Abstract

Financial disruption is one of the hottest topics today. Many startups are trying to revolutionize financial services, helped by the rapid advancement of blockchain technology. The blockchain ecosystem is busy developing applications that will replace and complement traditional banking products, such as cryptocurrency payment systems, wallets, centralized/ decentralized/ hybrid exchanges, peer-to-peer lending, money transfer services, and a variety of applications that are expected to disrupt the current financial services environment.

DEX IS THE FUTURE AND THE FUTURE IS HERE

Trendercoin DEX (TrenDEX) is such applications supported by a framework based on the decentralized ledger technology, which enables a wide reach in an un-censorable environment. As any ecosystem in its infancy, the current environment is highly scattered across various platforms, each performing a bundle of independent services with very low levels of conversion and synthesis.
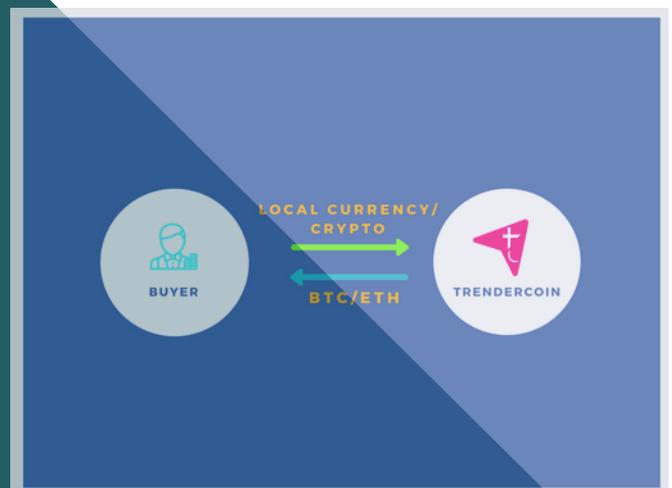
The Problem

A. Centralized Exchanges

Most cryptocurrency rely a central authority, exposing users to the same problems that plague traditional monetary systems all over the world. Cryptocurrencies are mostly traded on centralized exchanges that demand full control of user's funds. These centralized exchanges forfeit privacy and security for convenience.

Today, in order to make a simple exchange transaction such as cryptocurrency exchange, you may have to juggle 3 to 4 interfaces. Typically you would have your bitcoin wallet, exchange wallet, and receiving wallets. These, plus the various switching between platforms, which will typically increase the probability of errors (reaching up to 5% of total value of transaction) constitutes a major drawback for the average user.

The predominant issue with centralized exchanges is security.

The majority of the significant exchanges, including Bithumb, Binance and OKEx utilizing a centralized model with users data on central database. It just takes a solitary security break or malevolent insider for traders to lose everything.

Maybe the most popular precedent is the 2014 Mt. Gox hack, when the famous exchange found a security rupture that prompted the robbery of more than 850,000 bitcoins In 2016, $72 million worth of bitcoin was stolen from clients' wallets on another famous exchange, Bitfinex. After a year, the proprietor

of BTC-e, one more unmistakable brought together exchange, was captured for embezzling $4 billion in stolen bitcoins. Ethereum creator Vitalik Buterin needs centralized exchanges to "burn in hell," reverberating the dissatisfactions of numerous who are disappointed with their natural security shortcomings.

B. Decentralized Exchanges

In principle, the decentralized model ought to nullify the danger of a cyber attack plaguing cryptocurrency exchange.

At present, trading on DEX is much slower than trading on a centralized exchange and comes up short on the security clients anticipate. Liquidity is low, confirming transaction can take days, and user interface are usually rough and hard to explore.

Despite the fact that there is no failure, assets are stored on and off on the exchange, instead of in clients' very own wallets, and enrollment, login, outsider APIs, or liable to vulnerabilities.

Existing Blockchain Problem

1. Major BLOCKCHAINS ARE NOT Privacy Focused.

It's a typical confusion that all digital forms of money offer protection. In actuality, blockchain innovation offers numerous highlights and advantages, however not all blockchains execute these features similarly. By and large,

security is downsized for different advantages, for example transparency. Bitcoin wasn't structured for privacy. While Bitcoin implement decentralized ledger technology, yet all exchanges occur on open the blockchain where anybody can see them.

This makes transactions trackable and in the case of malicious tracking, identity of an individual to a public wallet address.

Furthermore, with the EU's General Data Protection Regulation (GDPR) and the California Consumer Privacy Act now in actuality, cryptocurrency exchanges and blockchains are experiencing tension to maintain every individual's entitlement to modify or erase their very own data.

Right to demand erasure or change of Personally Identifiable Information (PII), are inconsistent with open blockchains, showing an extensive test for these systems pushing ahead. Meanwhile, Trendercoin is backed with a basic guideline of the GDPR as a top priority.

The users's capacity to control their PII. Users are allowed to choose if any PII is to be utilized on the blockchain.

2. MINING SHOULD NOT BE A MONOPOLY

By their very nature, cryptocurrency platforms should facilitate democratic financial processes. A fundamental goal of blockchain technology is to take power away from centralized institutions and put it in the hands of users.

While this democratization thrives in some areas, that isn't the case for mining — a fundamental element of blockchain management, security, and functionality. Rewards have become so lucrative that massive operations have hijacked the mining process.

Take Bitcoin for example. At the time of writing, November 2018, the reward for completing a block was 12.5 bitcoins.

Existing Blockchain Problem

At the current valuation of around $4000 per coin, miners make almost $50,000 by mining a single block. Today, the average user can't compete with massive mining operations that leverage expensive, specialized hardware (FPGAs and ASICs) to mine new blocks, further eroding the democratic ideal of blockchain technology.

PGAs and ASICs have created an unfair power distribution on many blockchain networks, dramatically centralizing the network mining power. For example, two mining pools owned by one company, Bitmain, today mine over 40% of the world's bitcoins.

That means one company can effectively control 40% of the blockchain, which pushes the network towards a centralized model.

Not only does that make it incredibly difficult for regular users to mine new blocks, but it also defeats the main objective of blockchain technology: decentralization. It's also a huge security risk too, leaving the network open to a "51% attack" .

For mining to be genuinely democratic, everyone should be able to participate using a regular laptop or desktop computer. To date, no cryptocurrency platform has developed a secure DEX, built around a privacy-oriented blockchain that favors democratic mining practices.

Solution Trendercoin Provides

Easy To Use Application

*The Trendercoin CPU-optimized mining democratizes the mining process. All you need to begin mining on the Trendercoin blockchain is a laptop or desktop computer running macOS, Windows, or Linux operating systems.
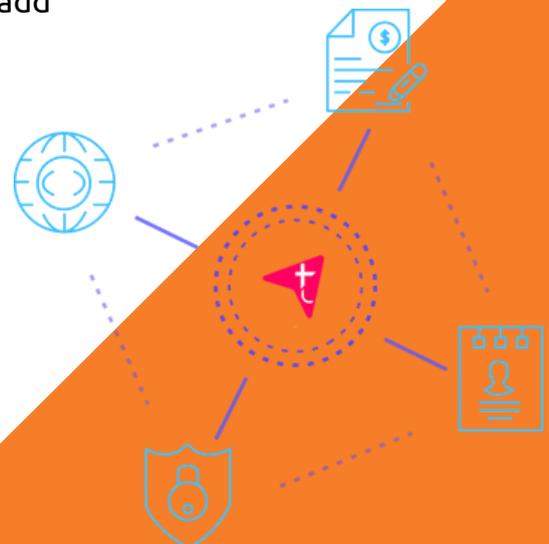
 *The Trendercoin privacy focused blockchain enables private trading on Trendercoin DEX and offers users the option to conduct fully private transactions by validating transactions through zero-knowledge proofs.

*Block rewards and transaction fees are split between masternodes, project development, Proof of Work, and Proof of Research on Artificial intelligence projects. Proof of Research provides an alternative way for users to receive block rewards while contributing computing power to critical artificial intelligence research.

*TrenDEX utilizes atomic swaps to enable fast, direct, risk-free trade of almost any cryptocurrency through an easy-to-use interface. Users retain full control of their data, IDs, wallets, and assets at all times.

*Trendercoins (TDC) are created when blocks are mined through Proof of Work. By harnessing the trendercoin privacy-focused blockchain, users can choose to use TDC as an intermediary coin to add privacy to almost any cryptocurrency.

 *Trendercoin wallet is secured with military-grade 256-bit Advanced Encryption Standard, or AES-256. This is one of the most secure encryption algorithms available today and is used by the NSA.

TrenDEX is a revolutionary open- source platform that eliminates the privacy concerns and security risks of centralized exchanges. Users can trade almost any cryptocurrency privately, anonymously, securely, and directly through a user friendly, security- focused dashboard.

Our DEX application is hosted on the computer of every trader in the network, and is separate from the Trendercoin blockchain. However, users can choose to trade using the Trendercoin TDC as an intermediary, taking advantage of The privacy features of Trendercoin blockchain.

5 WAYS TrenDEX PROTECTS PRIVACY AND FREEDOM
.
1. Users have the option to route transactions and trades through Tor, an open network that enables people to communicate privately over the public internet.

2. There is no registration process and users can trade as much as they want with no withdrawal limit.

3. There is no third-party escrow service, so users always retain control of their funds without the intervention of a middleman.

4. Atomic swaps allow users to trade up to 95% of existing cryptocurrencies directly with one another.

5. Users may harness the power of TDC as an intermediary to achieve entirely private trades between almost any cryptocurrency pair.

When combined with the Trendercoin privacy-oriented blockchain, TrenDEX users have the option to easily shield their identities during every stage of a trade.

How TrenDEX Works

 TrenDEX uses state-of-the-art technology to facilitate atomic swaps securely and reliably. Loosley based on Komodo's BarterDEX, TrenDEX uses the Trendercoin privacy coin as a base for optional private trading and implements many additional technologies, including Tor support, automated trade privatizing, an extremely user-friendly graphical interface, and more.

When a user wants to trade on TrenDEX, they simply open up the TrenDEX interface in the Trendercoin Desktop Application and enable coins they are interested in trading. The user then deposits coins into a special exchange address that is derived from their exchange secret seed phrase that only they know. This address is specific to the coin they are trading and each coin has its own derived address. Once an order is placed and a matching trade is found, both parties in the trade perform the necessary steps of an atomic swap before broadcasting their sides of the trade to the underlying blockchains of the cryptocurrencies being traded.

PRIVACY OPTIONS
The user can choose to broadcast these transactions via two methods, Electrum mode or Native mode. Electrum mode is easier to set up because it doesn't require the user to download the entire blockchain of the cryptocurrencies they are using.

 Instead, they can connect to a remote Electrum node that already has the blockchain downloaded and running. While this is easier to set up, it is less private and less secure.

Native mode requires the user to download and run the entire blockchain of the cryptocurrencies they are using. While this is more difficult to set up, it allows the user to broadcast transactions to their own locally running node, which is more secure and gives them the opportunity to enable Tor for that cryptocurrency, if it's supported.

How TrenDEX Works

Once the trade is complete, the user will have the value immediately accessible in their exchange address and can either use this in another trade, or withdraw this value to another external address.

DECENTRALIZED ORDER BOOK

TrenDEX has a dedicated peer-to- peer network that allows users to view and add to the order book in a truly decentralized manner. Most users connect to the network as non-relay nodes, but more advanced users can connect to the network using full-relay nodes. These full- relay nodes are mostly the same as

on-relay nodes except that they are responsible for propagating the order book and facilitating trades. Though users running full relay nodes will use more bandwidth and computing resources, they will also be the first to see orders added to the order book and will therefore have a slight trading advantage over other users.

LIQUIDITY ENSURED

TrenDEX has dedicated market makers, funded by a percentage of the exchange fee, who ensure that liquidity stays high and users can perform trades quickly at competitive prices. Anyone can become a market

maker on TrenDEX, provide liquidity to the market, and pay no DEX fees on trades. Furthermore, liquidity on ResDEX is also supported by Huobi who we have an official partnership with.

TrenDEX is supported by three technological pillars that, collectively, enable users to trade directly and privately.

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Trade Account Structure

All accounts operate within a multi-level relationship model, supports at venue, member/broker, and end client levels. It is therefore possible to monitor the aggregate outstanding positions and commitments at any level. It is possible to freely create specific groups of accounts which may have specific regulations or restrictions applied, such as segregated house and client accounts, and online retail trading accounts. When orders are received, the trade accounts are matched to the available accounts for that connection.

Match! will reject any orders that do not have a pre-defined account already registered on the system.

Match! also supports multiple different account mapping codes to support interfacing to various internal or external systems, such as back office or vendor systems. This mapping can be managed:
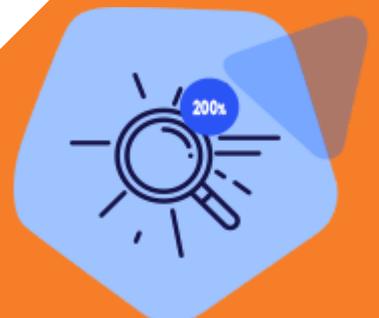• At the sub-account level defined in the order message.
 • At the account level defined in the order message.
• At the connection level, such that all orders received on a particular connection shall be assigned to the same account.

Trading Controls

Cancel or Disconnect In order to protect traders from unexpected exposure, if they lose connection to the market, an optional 'cancel on disconnect' feature is provided, which can be set in one of three ways: By account, By FIX session & By order.

Self Trade Protections (Optional) An optional protection is provided to prevent market makers from trading against their own orders. This typically is requested to add an additional layer of protection against market making algorithms suffering a logical or technical problem. This protection will cancel the order if any part of the order trades against another order with the same account.

Failover Orders flowing into the market, and executions happening are processed as transactions which are replicated to the failover server.

Features

In this way, should any infrastructure failure occur, it is possible to continue operating the matching from the exact point it left off from.

Integration of Secondary / Internal markets with Primary markets Price limits from primary markets can be diverted from the live market to control limits on the internal market.

Drop Copy
The drop copy service allows brokers to get a real-time copy of full-order activity, or fill-only activity. The service can be integrated for straight through processing into a participant's risk management and settlement systems.

Tick Capture
All price updates for both Level 1 "Current Prices" and also for Level 2 "Market Depth" data are saved at runtime to a file which can be used as a historical tick data archive for providing to market participants .

Cancel Orders on a Single Instrument
Similarly, "Halt" and "Resume" have similar controls by market, or by individual instrument.

Transaction Data Displays
The Market Admin screen has displays for all working orders, order histories, and fills. And where the market has trade reporting requirements, it also shows the status of this trade registration

ENABLED SERVICES
TrenDEX is aiming to become a fully-fledged digital asset exchange and servicing platform that will offer 4 Core lines of services:

The Exchange Wallet: Ready The integrative wallet is intended to hold all available cryptocurrencies/tokens on the market on TrenDEX wallet, and will be able to make withdrawals and deposits with no limit. Trendercoin adopts all the needed security measures to fortify the platform security with military grade encryption

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2. Integrated Exchange API:
Ready As we see the rapid evolution of cryptocurrencies, it remains that the Cryptocurrency marketplace is full of discrepancies between exchanges. We aim at offering our customers a well-integrated platform that enables them to access full information and accessibility in the marketplace.

3. User Interface
We expect to see a wide adoption of this protocol, in addition to the creation of new protocols, which will create perfect visibility and increasing adaptability.

4. Future Deployment
Our advisory solution consists of core modules, such as pre-built portfolios and advisory and execution platforms, aimed at achieving fundamental support in decision making. Besides our core modules, we've developed satellite modules enabling community and gamification, in addition to supporting a wide range of educational tools.

Our AI covers a large universe of strategies set to include thematic, fundamental, and technical analysis. Due to the holistic view enabled by the TrenDEX, the AI is able to identify exploitable opportunities, such as arbitrage, which can be executed through an intuitive step-by-step guidance of the AI system.

AI Advisory
 Application will Take Advantage of Arbitrage Opportunities Assisted by our decision-making AI, arbitrage opportunities are easily identifiable across platforms and enabled by a single click. Users would have the choice of executing automation or deploying a step-by-step virtual assistant.

Regulatory Framework
Trendercoin project is incorporated in Seychelles join the likes of BitMEX in a jurisdictions where it has the most favorable environment to operate, and where its assets and stakeholders interests are most protected, by a clear regulatory framework and will be pursuing actively strict compliance to laws and regulations in force.

Token Sale 2017

Token Sale Objective

Funds raised during the contribution period will be used solely for further development trendercoin blockchain, development of trenDEX, marketing and users acquisition for TrenDEX. A budget has been outlined below, representing a scenario where our soft cap has been reached:

Platform Development	30%
Marketing/Events	20%
Operations	20%
Compliance	10%
Users Acquisition	20%

Total Tender Coin Supply	**1,000,000,000 (100%)**
Distribution supply	**550,000,000 (55%)**
Soft cap	**5000ETH**
Hard cap	**15,500ETH**
Exchange rate for ICO	**1 ETH = 30,000 TDC**
Period of ICO Phase 1	14th Nov to 28th Nov
ICO Phase 2	29th Nov to 22 Dec

Token SWAP 2019

Total Distribution 2019
Updated Total Supply: 10,000,000,000 TDC
Distribution/ICO Supply: 55%
Team: 20% locked up for 12months
Future Projects : 10%
Community/users growth : 10%
Investors : 5%

Trendercoin multi-chain DEX **(TrenDEX) to launch in Q3 2019**. To achieve our goal of aim of simple blockchain asset decentralized exchange, our team will launch TrenDEX in partnership with blockchain community stakeholders.

TOKEN USAGE
Trendercoin (TDC) usage:
1. Exchange fee reduction.
2. Premium service payment.
3. Full privacy transaction payment.

Investing in the trendercoin TDC would afford investors the opportunity to be a part of a revolution that will yield a good return on investment both in short term and long term.

Trendercoin Mainnet
Maximum Supply: 128 million | Total Tokens To Generate: 60 million | Amount for mainet swap: 30 million

Zhenxi Zou -
Founder

A versatile engineer having over 15 years experience in various technologies such as machine learning, AI, data analysis, visualization, blockchain & cryptocurrency.

Than Yee Yong
Founding Partner

An IT Software & Peripheral Online Salesmaker for Asia Pacific with vast experience in web analytics, sales leads for South Asia. IT Services Salesmaker with regional business management for Asia Pacific.
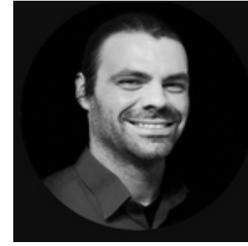
Casey Gardiner
Partner

A blockchain advisor, an engineering consultant, and the CEO & Cofounder of BlockIDE, a web-based application that expertly manages blockchains and smart contracts. Currently and spent 20 years as a software engineer

10 dedicated developers
and **over 15000** members
in our communities.

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