Global Payment Ecosystem Based On Blockchain

Whitepaper Ver. 1.0

August 2020

CONTENTS

1. Introduction 3

2. Solutions 6

2.1. Public Blockchain for Payment 6

A solution for a better blockchain security and on-chain governance 8

Cross-chain Relay & Light client 10

Future Development 10

2.2. Payment Gateway and eCommerce applications 11

Payment tokens 14

Stores and partner businesses 14

Recurring payment through the smart contract 16

Escrow payment through the smart contract 17

Infrastructure for eCommerce tokens & loyalty points 18

On-chain identity for users and merchants 19

New trustless stablecoin and stablecoins business 20

3. The economic applications of ezDeFi ecosystem 23

3.1. Integrated token mixer 23

3.2. Decentralized settlement layer through decentralized OTC market 24

3.3. Asset tokenization 25

4. Token Allocation & Distribution 27

5. Team members ..... Error! Bookmark not defined.

1. INTRODUCTION

Armin owns an exotic rug store in Turkey and plans to export his products to Europe, Asia, and America. After setting up his store online through WordPress, Armin incorporated a credit card payment gateway into his store and launched the store swiftly afterward. The store had been running for 3 months, and Armin found out about the use of Bitcoin and other cryptocurrencies on the news. Being concerned about cryptocurrency's viability, Armin decided to do research about this new type of payment. The steady growth of revenue in cryptocurrency with retailers, wallet users, et al, are shown on CoinDesk, Visual Capitalist, and other small businesses. This gave Armin more confidence in accepting cryptocurrency as a mode of payment to his store. According to Statista, blockchain wallet users worldwide are already exceeding 40 million at the end of 2019. In one of the reports, The Paypers, 6% of the customers cancelled their checkout because the online retailer is lacking their preferred payment method. Maybe 6% is not many customers for each merchant, however, in the long run, the opportunity to bring your goods to a bigger audience with minimal fees is lost?

Blockchain is the 'new core technology to change the world' after the invention of the Internet. Governments have evaluated blockchain as one of the leading technologies of the fourth industrial revolution. Blockchain enables P2P trade to execute transactions without a centralized third party and offers a decentralized alternative for monitoring and finalizing payments in real-time. Optimizing transparency, reliability (security) and replicability can be retained through blockchain technology in various industries such as finance, manufacturing distribution, and public service. An additional value is achieved by the reduction of brokerage commission.

The greatest potential for blockchain usage is in the financial industry, especially in the transfer and payment service market. While overseas remittance using SWIFT usually takes 2 to 3 days currently, it only takes a manner of minutes to few seconds for blockchain-based cryptocurrencies to complete the transfer for value. Furthermore, the time required for cryptocurrency transactions gradually reduces with advancing

technology development. The reduction of remittance time and intermediary fees with blockchain technology is significant.

However, there are still hurdles to cross in the widespread adoption of cryptocurrencies. It can be difficult for users to accept cryptocurrencies due to price fluctuations and the complicated transfer process. However, this will no longer be an issue as sovereign nations and big corporations are starting to issue their own cryptocurrencies.

According to IDC's forecast in 2018, the average trading volume of the cryptocurrency market is growing at least 76% a year until 2025. Trading volumes of 2018 and 2019 were pretty close to the forecast. it was projected that in the next 13 years, the trading volume of cryptocurrencies will be equal to the transaction volume of VISA, which is roughly USD 2000 billion. With the creation of tokens from institutions and enterprises such as Libra by Facebook, the estimated 13 years are likely to be reduced significantly. We believe that a payment gateway that is able to support multiple cryptocurrencies is highly desirable, and ezDeFi has been developed to achieve just that. It only takes a Token 7 days to be listed on ezDeFi, and the payment system will be available instantly. The ezDeFi project is the Global Payment Ecosystem based on Blockchain and Convenient Payment which enables the use of convenient, unstoppable, non-reversible, and rapid payment service accessible anytime and anywhere with all digital assets including cryptocurrency. ezDeFi is an open payment system for every main agency of economic systems such as government organization, finance company, medium-sized company, retail shop, distribution company, and fin-tech company. We also want to provide the services to these other classes of individuals

- Those who do not have access to the traditional banking system.
- Those who need low-cost international financial services.
- The small business owners who want to be able to accept cryptocurrency as payment.
- Those who need a smart contract that execute such prescribed terms automatically without any third-party.

- The innovators who need fast and low-cost transaction for their decentralized applications (dApps).

Our network will be entirely open-source. Developers, freelancers, and businesses could advance the network by building new and pragmatic dApps, that has the requirement for instant transaction confirmation with minimal fees.

2. SOLUTIONS

ezDeFi understands the importance of major blockchain networks, so our solutions only seek to provide users with simplicity and security while interacting with blockchain technology.

2.1. Public Blockchain for Payment

In 2008, Satoshi Nakamoto proposed Bitcoin as the first electronic payment system based on a decentralized peer-to-peer, equitable, and independent network of computers. Bitcoin has been gaining more and more mainstream attention since then. According to Bitcoin.com, in December 2018, there were 460 million bitcoin wallets. Bitcoin has enabled a new economy of decentralized finance where transactions are immutable and validated through distributed consensus. This decentralized model will inevitably be adopted by various businesses as an alternative to the centralized system that is based on conventional servers and databases.

However, in December 2017, the average transaction fees for BTC transactions have increased to over 37 USD per transaction. The issue coupled with the long transaction time and the congestion of Bitcoin blockchain has created a drag on the process. The effect of the longer transaction time makes Bitcoin an unattractive medium of exchange and causes commercial enterprises to stay away from Bitcoin. In such a delay, the price fluctuation also makes it hard for businesses to accept Bitcoin as 5-10% of its value can easily vanish in an hour.

EzDeFi is a decentralized payment ecosystem built on public blockchain with such practical functions as 2-second transaction time, free transaction fee, and a token that seeks to stabilize ZUSD. In the future, ezDeFi will support cryptocurrencies from different platforms and official digital currencies such as eCNY, eEUR, or eBAHT etc. EZDefi seeks to incorporate various digital currencies into one system which thereby enables smart contracts in the financial activities and interactions among different tokens. Moreover, the cross-chain transfer technology in ezDeFi allows the development of financial institutions on blockchain. Each bank can have their own

private blockchain and the blockchains can be connected in such a way that cross-transfer is available without the reliance on intermediaries anymore.

Glossary	
ZD	ezDeFi Native Token
ZUSD	The ultimate privacy dollar, the combination between decentralization, privacy, and stabilization
r2POS	A Relay-friendly Proof of Stake
VDF	Verifiable Delay Function
RNG	Random Number Generator
VM	Virtual Machine

At this moment, ezDeFi has completed the technological foundation for multiple functions and is maintained by more than 200 nodes all over the world. For the above-mentioned challenges, the current strategy of the ezDeFi team is to encourage apps creation and projects within the ezDeFi ecosystem. It is our vision that the launch of apps and projects on ezDeFi optimizes operational costs for businesses, which will help attract customers from those businesses as they are more accustomed to blockchain technology.

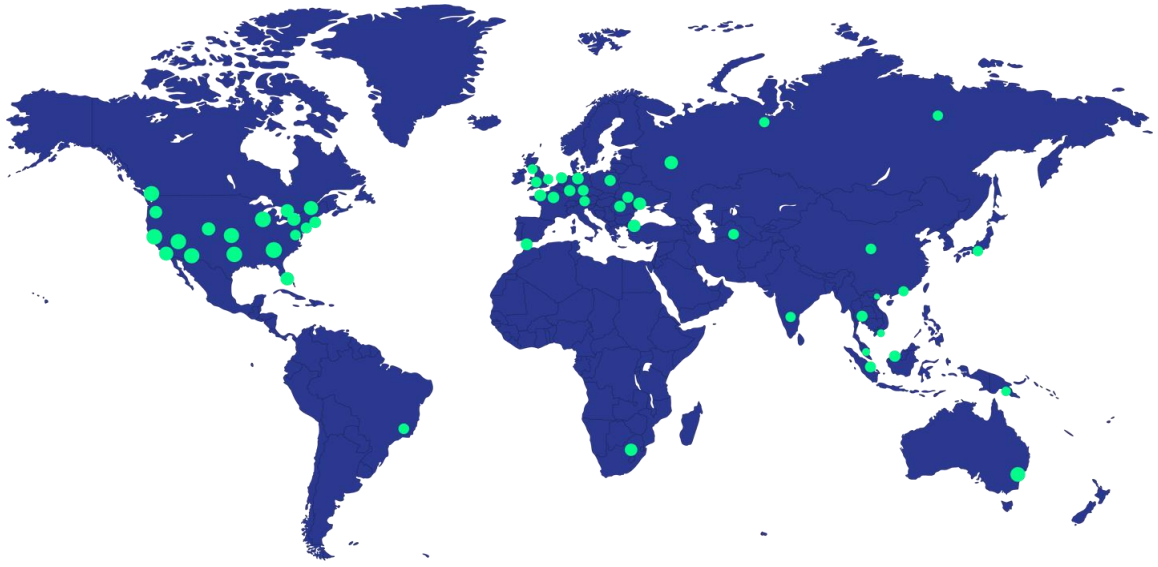


Figure: ezDeFi has completed the technological foundation for multiple functions and is maintained by more than 200 nodes all over the world

A solution for a better blockchain security and on-chain governance

Unbiased Randomness

Randomness is crucial to many applications from real to the computer world, centralized to distributed system, and now to the blockchain world. Unfortunately, distributed RNGs are susceptible to prediction and biasing, including Nakamoto Consensus, Private VRFs, PVSS, and Unique Threshold Signature.

Verifiable Delay Function (VDF) is the only known solution to a truly unbiased randomness, and it's available for both the EzDeFi consensus and its user smart contract. Systems and applications secured by VDF have the following valuable properties:

- Truly unpredictable and unbiasable.
- Minimal security requirement: one single bona fide participant can secure the whole network.
- Energy efficient.

EzDeFi consensus uses VDF to generate random numbers, such that the result is not predictable nor biasable by any adversaries. It minimizes the risks of malicious sealers and inherently protects the network. The consensus is designed so that every time a VDF output is found, the sealing queue will have a new random set of sealer thereby enhancing its security.

We believe that VDF will also be the backbone for many future applications that require reliable randomness, whether it's an on-chain smart contract, dApps, or even traditional centralized applications. It could even be used as a voting app that will enable the election of official candidates to a committee; or as an app to generate random numbers for a lottery. There is a myriad of use for an unbiased randomness generator.

The consensus algorithm of EzDeFi Chain is r^{2}PoS, a Relay-friendly, unbiased Randomized Proof of Stake consensus. Current Proof of Stake protocol relies on the running state of the chain, which is not available in fast and light synchronization. The r^{2}PoS protocol is designed for securing header-chain verification without relying

on the chain state. There is no epoch nor checkpoint, the sealing queue is constantly changed over each block, so the consensus does not depend on any single point of vulnerability or gets constricted by a performance bottleneck.

Outcome of the consensus developed, which is tested by EzDeFi network

- On-chain transaction time: 2 seconds
- On-chain fee for sending tokens: 0
- Spam protection on protocol layer using MFU algorithm (Please refer to our technical paper)
- Number of transactions per second: 10,000 tps and can be increased to 100,000 tps if we deliver our cross-link chains technology (Please refer to our technical paper)

On-chain governance

ZD tokens are intended to be used for the governance of the ezDeFi Ecosystem. At a later date, it is intended that our token holders will be able to influence the direction of software development and business policies on the ecosystem. Token holders will be able to cast votes that are proportional to their stake in the network on important community governance issues.

Any sealer who has deposited sufficient ZD into our Governance can become a sealer and enter the sealing round, within which they will be shuffled randomly. The process of selecting a set of sealers is simple. Essentially, there are n eligible ZD holders enter the sealing round. The required stake is verified by the governance contract, and only available to full-state nodes. Sealer application needs 128 confirmations to be activated for stateless header-chain application. After more than half of the active sealers confirm the application, it is then fully verified. If the sealer is inactive in 1024 blocks, it will be removed from the active sealers queue, and will be required to re-apply for sealer verification to seal blocks.

Given a header chain is verified up to block N−1, the set of authorized sealers for the block N can be determined by:

- Sealing Queue can be deterministically reconstructed at any point in the header-chain, where the last N+1024+128 headers are verified. Reconstruction does not require any checkpoint, or scanning of more than 1024+128 blocks.
- The order and priority of the active sealing queue is rearranged using the VDF calculation output as random seed. Input of the next VDF is the hash of the block containing the last VDF output.

Cross-chain Relay & Light client

In the near future, we envisage that different blockchain platforms should not restrict user's activities within that chain. They should be able to communicate with each other, even though they may have different inherent protocols and token standards. Acknowledging this, ezDeFi is proposing a cross-chain relay and light clients as our future development plan.

Cross-chain communication is not an easy task, because the protocols of the various involved blockchains do not support it. Relaying chain data and Light client both require a standard protocol for the client to easily verify any data contained in the blockchain with only a small part of the chain data. A relay contract is also a light-client with even more limited resources. Eventually, cross-chain relay will allow users to verify Ethereum transactions on ezDeFi blockchain.

Light client is the vital part of the cross-chain relay protocol. The conventional way to verify any transactions on blockchain is by including every block from the genesis block to the current block. That is unfeasible because a whole blockchain could easily be made of up to 30 GBs of data. Light client is a solution to reduce the size of the blockchains by containing and verifying only such blocks that affect the consensus. It is then able to authorize any blocks can be relayed with much less data than the total data of the blockchain.

Future Development

EzDeFi is not a destination, but rather the process of constant development and innovation. Many core technologies and features will come to the platform to adapt to the many new communities and markets.

The next upgrade of the protocol will focus on improving the contract language and storage model to support many dApp designs and patterns, including (but not limited to):

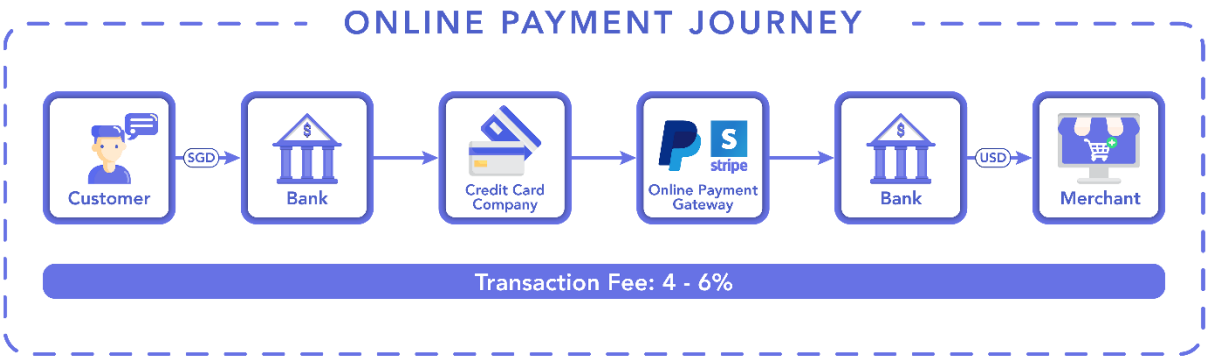
- Distributed Storage Model;
- Asynchronies contract Call;
- Scheduling and Event Handling

These upcoming features will be helpful tools for freelancers, developers, and businesses to seamlessly build their dApps which helps expanding the ecosystem of EzDeFi.

2.2. Payment Gateway and eCommerce applications

For the past two decades, Internet marketplaces and e-commerce stores have changed the way that buyers and sellers connect, creating new opportunities for the exchange of goods and services. However, these marketplaces have always been governed by centralized companies that maintain their individual monopolies on data, transaction and other service fees, and ultimately, limiting the users' choice of products.

Cross-border payment processing corporations i.e Visa, Mastercard, Paypal and Stripe are invented to handle such problems. However, their fees are high, which can reach 4% - 6% for each transaction. Besides this, these corporations have to refund systems for transaction problems, and the refund period is quite long (7-30 days).

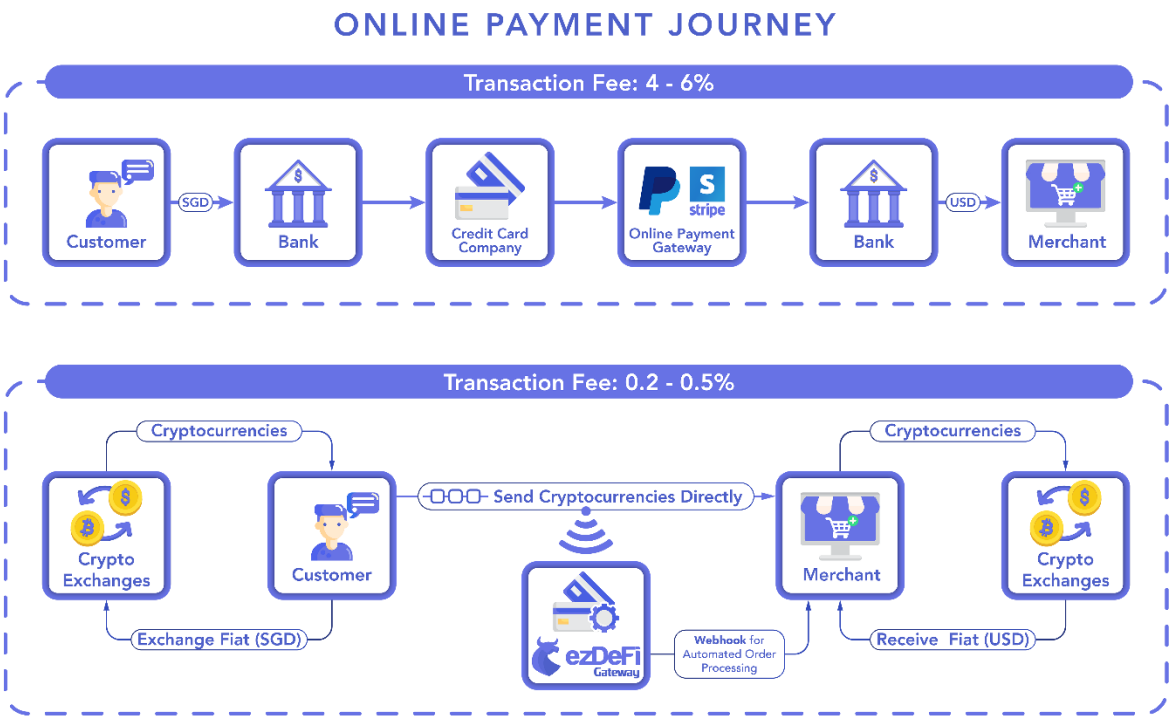


With blockchain and other distributed technologies beginning to hit the mainstream, the world is poised for a new wave of decentralized commerce. ezDeFi is bringing this change and innovation to the global peer-to-peer economy. We are excited by the

opportunity to provide the solution for lower fees, increased innovation, free customer transaction data, and decreased censorship and unnecessary regulation.

We are building a platform that invites other interested parties including developers and entrepreneurs to capitalise this technology and build the community with us, working to create the peer-to-peer economy of tomorrow together. Our solutions can be easily integrated with popular e-commerce platforms, assisting businesses process orders automatically while storing and protecting decentralized assets on mobile phones and web browsers. Till now, ezDeFi payment gateway has completed the payment gate and is working on other modules that are compatible with e-commerce and e-invoicing systems (whose active users are about 5 million).

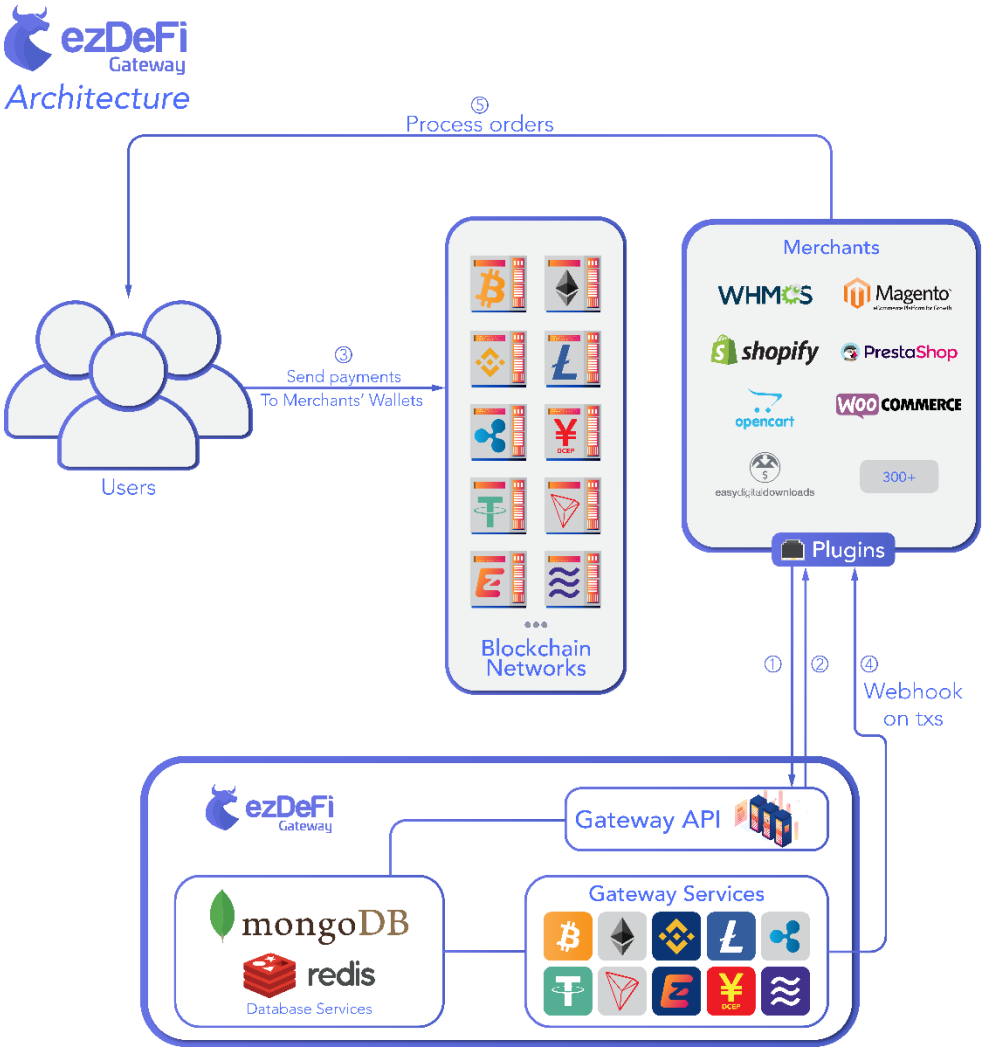
Payment optimization through intermediary elimination enables ezDeFi to have a low fee rate of 0.1% per transaction, instead of the usual 4-6% of other platforms, and will be accessible to all countries. Bitpay, which raised USD 35 million of capital in 2014 and is the biggest payment gate at the moment, supports only 3 tokens and is available only in a few countries because it is a financial intermediary (which also means that it bears a significant number of legal risks). As a non-intermediary payment ecosystem, ezDeFi is capable of expanding to many markets and economies. In fact, during 2 months of Open Beta, ezDeFi has already attracted 1015 companies and stores from multiple countries around the world.



In the near future, ezDeFi aims to focus on online businesses to integrate the cryptocurrency payment gate with their systems, so that in 1-2 years' time, when nations start issuing their own digital currencies, ezDeFi will already have a bank of active users, which enables ezDeFi to be a pioneering payment gate comparable to Paypal and Stripe today. This aim is within sight and achievable considering the current progress of ezDeFi.

In the long run, ezDeFi will be available for payment at any brick-and-mortar store. The EzDeFi mobile app (which is under development) will allow users to make payments via QR codes and work with smart contracts as well as other decentralized apps. ezDeFi users will create a unique identifier for themselves with their consumer behaviors and even get paid when commercial companies seek to access their identifiers for advertising purposes.

Payment tokens



The users of our ecosystem can transact using Bitcoin, Ethereum, other cryptocurrencies (BNB, TRX, POC, KNC), and stablecoins (e.g. DAI, USDT). Payment tokens of different chains will be listed and swapped freely thanks for our cross-chain technology. *The unbiased integration of different payment cryptocurrencies and stablecoins* is expected to increase the liquidity of the ecosystem and the adoption of cryptocurrency in daily life.

Stores and partner businesses

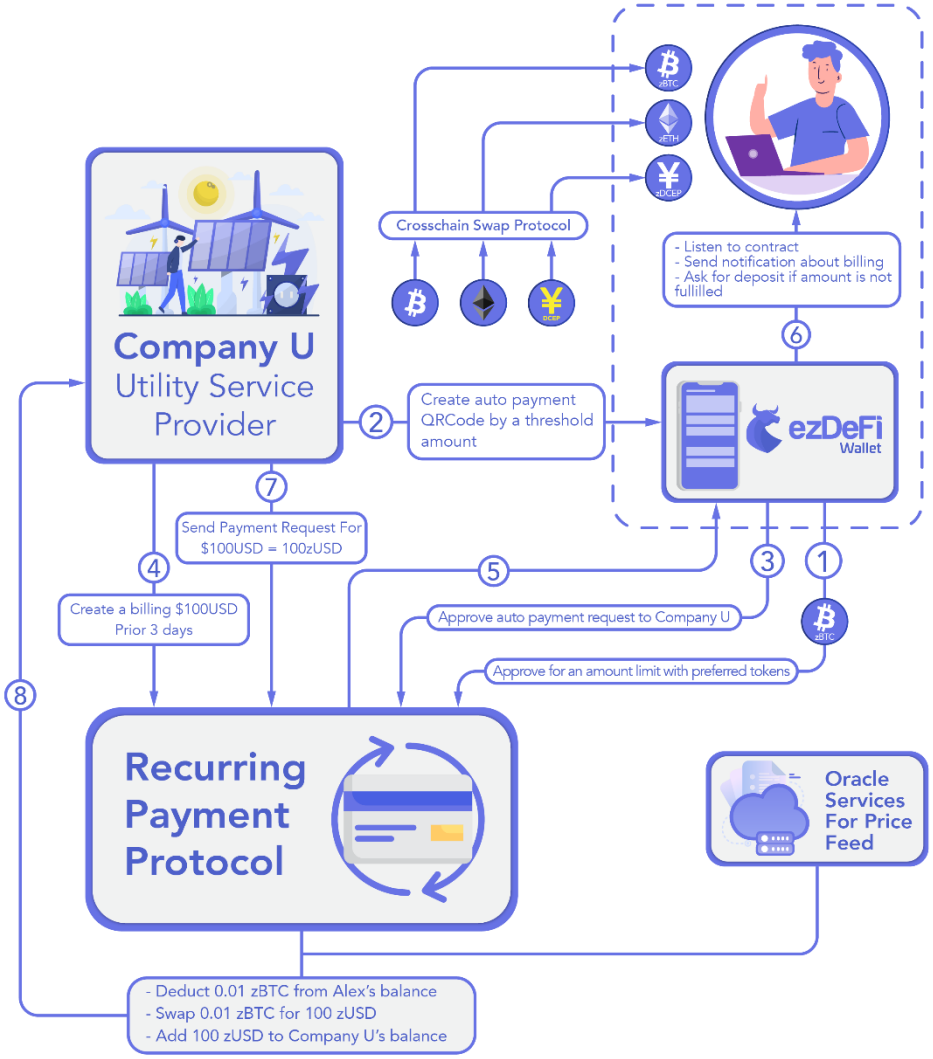
Our strategies are focused on expanding partnerships and making the ezDeFi application the primary app for stores, business, and individuals' payment. Our partner businesses will be able to:

- Receive the main cryptocurrencies and stablecoins without any transaction costs and with liquidity available within 3 hours.
- Belong to a business network with decentralized information and available worldwide with location information, contacts, type of business, price target, and much more useful information.
- Have the opportunity to divulge their products and services, and conduct online sales, using either stablecoins or cryptocurrencies.
- Have a competitive advantage and access to a market niche constituted by innovative customers and early adopters who tend to desire anonymity and are willing to pay for it.

Recurring payment through the smart contract

Recurring Payments also called Auto Pay can be defined as mechanisms where a business concern or say a bank is authorized by the customer to automatically collect a certain amount on a period. For example, banks are authorized to automatically deduct credit card charges, at the beginning of every month. This helps in avoiding the issues of late fees or fine.

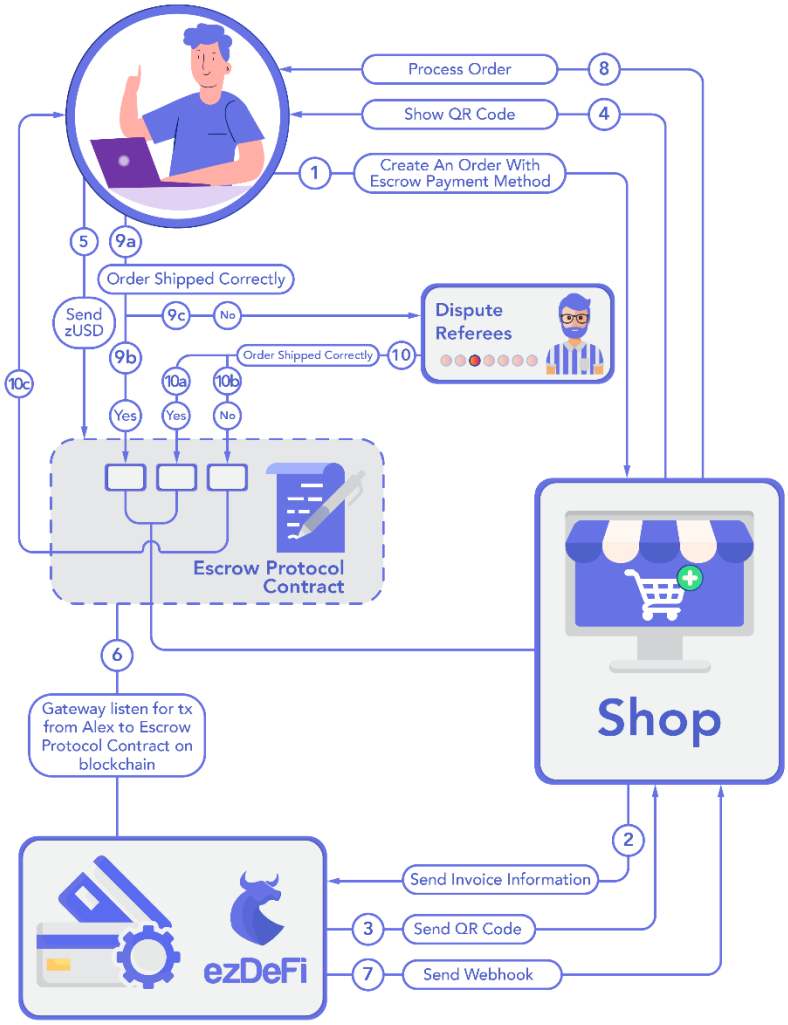
EzDeFi enables decentralized recurring payments with a technology built on our own blockchain. With our blockchain technology, it is possible to authorize businesses to automatically deduct an approved amount from the account in a prescribed period, eliminating the need for constant manual payment, and avoiding the fee transactions for example, the Ethereum blockchain.



Escrow payment through the smart contract

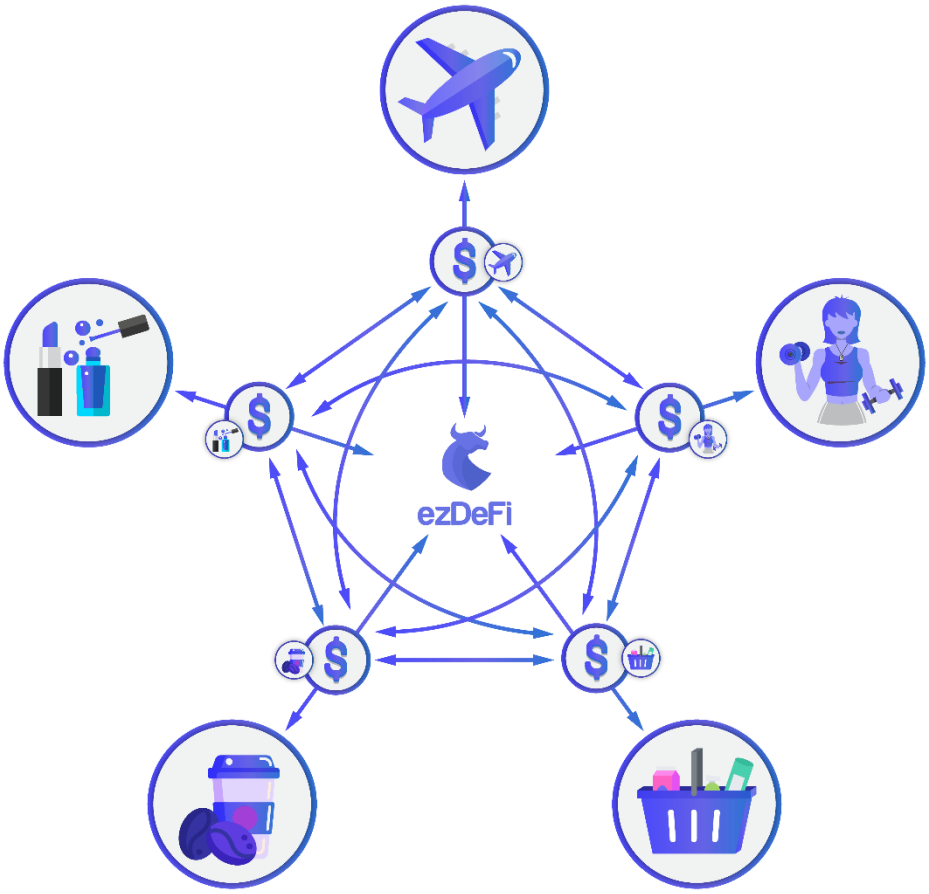
ezDeFi ecosystem enhances the buying/selling process with decentralized escrow for secure payments, third-party dispute resolution, with minimal transaction costs. The ezDeFi can be integrated into new or existing marketplaces and can even be used in marketplaces that do not directly facilitate payments yet. The software is designed specifically for P2P marketplace transactions where trust between the buyer and seller might be limited.

Our third-party dispute resolution is decided by the on-chain governance mechanism. The result is lower fees and more transparency than any other escrow systems.



Infrastructure for eCommerce tokens & loyalty points

Our blockchain ecosystem will also allow instantaneous and secure creation, redemption, and exchange of *loyalty reward points* across all programs, vendors, and industries through a trustless environment using our ZD token; in lieu of trusted third parties and administrators. Through a rigorous online protocol, well-programmed building blocks, and smart contracts, our blockchain has the capability to operate without intermediaries. The key elements of such a blockchain solution are a huge partnership network of biggest vendor and merchants, reward applications, and ZD token



Users that earn loyalty points of the various corporate programs, vendors, and industries through ezDeFi Rewards will be able to instantly convert their loyalty points to ZD tokens and thereafter into other forms of cryptocurrencies.

On-chain identity for users and merchants

In July 2018, many crypto users have been attacked by a new malware that hijacked their clipboard to change crypto addresses while undergoing the transfer process. There have also been many instances where merchants are impersonated, which leads to buyers making payments to the wrong address while transactions in crypto systems are irreversible.

Therefore, it is imperative to properly identify users and merchants. In our system, ezDeFi users and users of other compatible crypto wallets can determine whether the address to which they are making payments is accurate. Such data regarding identification are directly queried from our blockchain based identifier system so that such impostor and fraud-related issues are eliminated.

Users and merchants can set their own usernames and/or domain names and attach such identifiers to crypto wallet addresses of various blockchain platforms such as Bitcoin, Ethereum, Litecoin, Libra, etc.

Username and domain name ownership is defined with NTFs token, so such digital assets can be transferred between different parties with no loss in secured identity.

This business model is entirely new and is equivalent to current web hosting businesses with a total of 366.8 million domain names in Q1 2020.

New trustless stablecoin and stablecoins business

Stablecoin is invented to be a probable solution for cryptocurrency mass adoption. Essentially, it is the pegging to a fiat value, usually US$1.00, with the purpose of mitigating fluctuation in cryptocurrency investments. Collateralization with fiat currency or cryptocurrency will maintain its pegged value. While it has one leg in the decentralized area, the other leg is still buried in the centralized fiat.

Centralized fiat-backed stablecoins like Tether (USDT) has some serious trust issues, because of the concern that it doesn't have enough fiat currency within its inherent reserve to keep to its 1:1 peg. Decentralized stablecoins like DAI also have problems of liquidity and adoption. Its value is backed by only two cryptocurrencies: Maker (MKR) and Ethereum (ETH). Most of stablecoins are traceable and not privacy focused. We, the ezDeFi developers, have created ZUSD, the ultimate privacy dollar that is the combination of decentralization, privacy and stabilization.

The ZUSD is an interactive supply stablecoin. Our stablecoin monetary system uses an elastic supply stabilization mechanism that contracts the supply of ZUSD when low demand causes the value of the stablecoin to fall below its peg and reacts to expand

the stablecoin's supply when the value of its stablecoin rises above its peg due to a sudden increase in demand.

Some earlier versions of other elastic supply stablecoins attempted to bring the traditional centralized banking model into cryptocurrency (like NuBits, Basis or even EzDeFi Smart Staking to some extent). But the critical failure come from the fact that centralized banking relies on the economic theory of constant growth, such that they don't have to permanently deflate a fiat supply, they can just borrow money from the future (using bonds), and expect the economy will grow, along with the new demand. In cryptocurrency, especially in the early adoption state, demand can be decreased to zero, and there is nothing wrong with that. A working elastic supply stablecoin needs to deal with all the changes of demand, even in the best and the worst-case scenarios. Not only rewarding people for joining the network, EzDeFi incentivizes them to stay. Our stabilization procedure consists of 2 coins: ZD and ZUSD. ZD holders represent the contribution to EzDeFi ecosystem by transactions confirmation, capital investment or providing service to the network. They are rewarded with capital gains when the network grows. ZUSD holders represent the customer interacting with EzDeFi services, given prioritized protection by the network.

When the balancing mechanism is triggered by any fluctuation from the market, ZD holders are responsible for ingesting the fluctuated price by converting between ZD and ZUSD. Market order issued by the consensus will automatically fill enough buying/selling ZUSD orders from the highest bidders or the lowest askers. An x% rate expansion will convert ZD to at most %x of ZUSD supply. A c% rate contraction will convert at most %c of ZUSD supply to ZD. Exchange rate is determined by the market itself, via system exchange orders. This means any changes in the price of ZUSD would be absorbed by pushing the fluctuation onto the supply of ZD. Additionally, market orders will match from the highest bidder downwards, until the absorption amount is filled. For example, when an order from the market requires 100 ZUSD to be minted, with the price of $0.017 per ZD, anyone who's willing to sell 5,882 ZD will match that order; then 5,882 ZD will be converted to mint 100 ZUSD, and be burnt afterwards.

When the network grows, meaning that demand for ZUSD will increase. The system will activate absorption phase to convert ZD to ZUSD, which increases the price of ZD. All ZD holders have the responsibility to stabilize the network, and greatly benefit from it.

We also assure ZUSD of the privacy and fungibility through integration of CryptoNote protocol features positions the ZUSD as a leading stablecoin contender for cash-like usage such as simple purchases from merchants who should not be able to see the buyer's total cash balance.

As soon as central bank-issued stablecoins (CDBC) and international corporate stablecoins (Libra) released, the stablecoins will have the full support to integrate into ezDeFi. We are also working with local governments to become an internationally compliant fiat-to-crypto gateway solution for exchanges, wallets, and other cryptocurrency businesses.

3. THE ECONOMIC APPLICATIONS OF EZDEFI ECOSYSTEM

An cross-chain swap is a distributed coordination task where multiple parties exchange assets across multiple blockchains, for example, trading Bitcoin for Ethereum and other cryptocurrencies. An atomic swap protocol guarantees (1) if all parties conform to the protocol, then all swaps take place, (2) if some coalition deviates from the protocol, then no conforming party ends up worse off, and (3) no coalition has an incentive to deviate from the protocol.

One of the greatest applications of cross-chain swap is the cross-chain transfer between stablecoins. The stablecoins have also been issued on a variety of blockchains that operate balkanized from each other. Cross-chain transfer between stablecoins is currently enabled by centralized middlemen. The actions of putting stablecoin transfer in the hands of intermediaries is a path towards centralization of control; this is opposite to the decentralization ideology of blockchains. The inter blockchain transfer between blockchains should aim to be as trustless as the intra-blockchain transfer. ezDeFi propose an alternative system for stablecoin transfer, specifically focused on cross-chain stablecoin transfer between multiple blockchains using blockchain interoperability. We then go on to implement a stablecoin transfer between tokens that are based on two different blockchains by creating a representation of the sender token on the receiver chain.

3.1. Integrated token mixer

Cryptocurrencies mixers are solutions (software or services) that let users mix their coins with other users, to preserve their privacy. While most mainstream cryptocurrencies' addresses often still be linked to real-world identities. For example, if you withdraw Bitcoin or Ethereum from an exchange where you have identified yourself, the exchange knows that the withdrawal address is yours. There are also more advanced techniques and services — such as blockchain analysis — that could tie cryptocurrencies' addresses to real-world identities. By mixing their coins, users can obscure the ties between their crypto addresses and real-world identities. This allows them to use crypto more privately.

ezDeFi's transaction structure was designed to seamlessly adopt the AzTec protocol. Once integrated, ezDefi mixes transactions from multiple wallets to ensure they are indistinguishable from one another. This process is to secure the privacy of ezDeFi users.

3.2. Decentralized settlement layer through decentralized OTC market.

ezDeFi includes an integrated OTC market. Users can buy and sell cryptocurrencies directly to other users using the ezDeFi application. The ezDeFi software can be utilized as a trustless independence solution, or it can be incorporated by existing market participants like exchanges, OTC desks, and custodians.

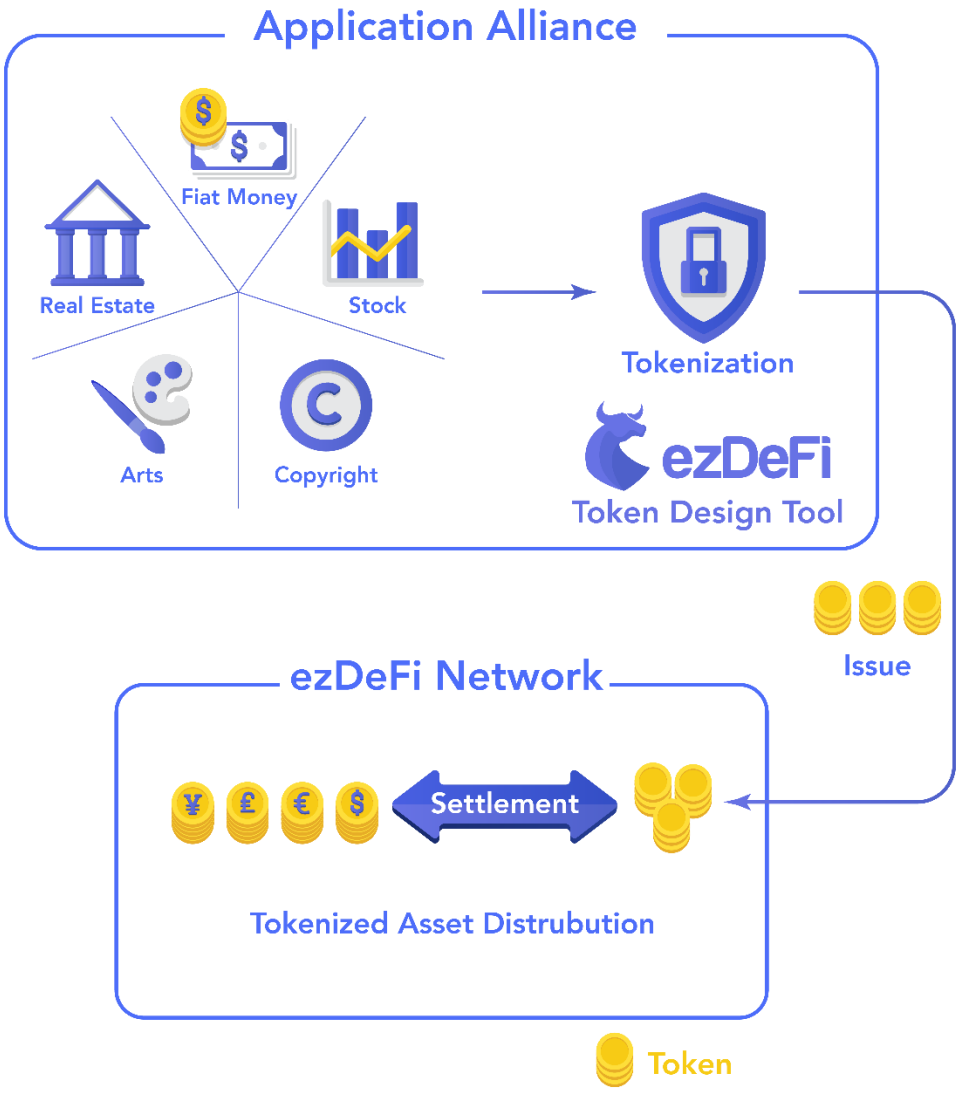
For exchanges, the decentralized settlement technology can enable non-custodial trading. With non-custodial trading, users no longer must deposit their coins at a traditional exchange. User coins remain housed in users' own wallets, instead of trusting the exchange's wallet with custody of their coins.

Exchange operators can even add our settlement technology to mitigate risk from hacks, unexpected technical issues, and reduce the impact of malicious actors. In this instance, custody would be the sole responsibility of the asset holder (being their own bank) and the exchange, clearing house, and settlement agent would never touch the funds - they would only provide software and platform.

For OTC brokers, dealers, and market makers, settlement is inefficient, cumbersome, and carries significant counterparty risk. EzDeFi's technology streamlines the bilateral settlement process while eliminating unnecessary risk, while supporting trade reconciliation and netting of transactions.

Lastly, for firms who prefer to use an institutional custodian, an integration of ezDeFi allows their clients to transact from their custodian of choice securely and seamlessly. The software of our ecosystem provides APIs to settle trades securely and seamlessly.

3.3. Asset tokenization



The most likely area for change and innovation in relation to blockchain is 'Asset Tokenization'. 'Tokenization' means substituting actual article, digital asset and legal tender to tradable token in network. From art piece to jewel, real estate, business license, patent license, copyright, software license, all physical assets can be the object of tokenization through the blockchain distributed ledger technology. The tokenized asset exists as hash asset on completely opened P2P electronic network without any centralized authority who mediates bank or government.

By tokenizing actual article and digital asset on blockchain based network, companies can change trade process and create new business models. As an example, blockchain that tokenizes real estate is rapidly rising. Real estate investors and consumers can buy and sell actual articles on blockchain or can repay rent and loan so that real estate owners can do additional investment through this. Recently, cryptocurrency field that tokenizes legal tender (cash) is utilized actively.

Capitalization of token is basically for trade. Countless asset token should be in a payment gateway for payment or settlement or be tradable in exchange. ezDeFi will open a marketplace that providing real time payment system of this kind of token.

In ezDeFi ecosystem, a network participant who tokenizes assets by cryptocurrency and trade, is called *Assets Management Alliance*. Cryptocurrency, asset token can be issued by anyone and whoever, whatever organization can be *Assets Management Alliance* and can participate in the network.

ezDeFi provides P2P service that tokenizes and distributes asset on network. Asset token service requires commission about transaction, the commission will function as the network's fuel.

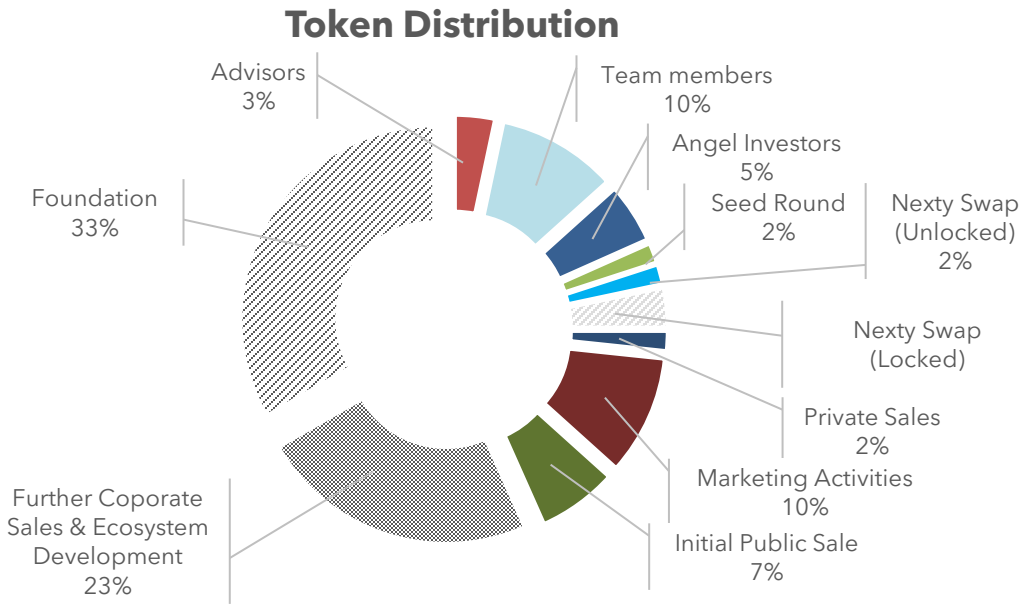
3.4. ZD Fee using on EzDeFi ecosystem capable for burning

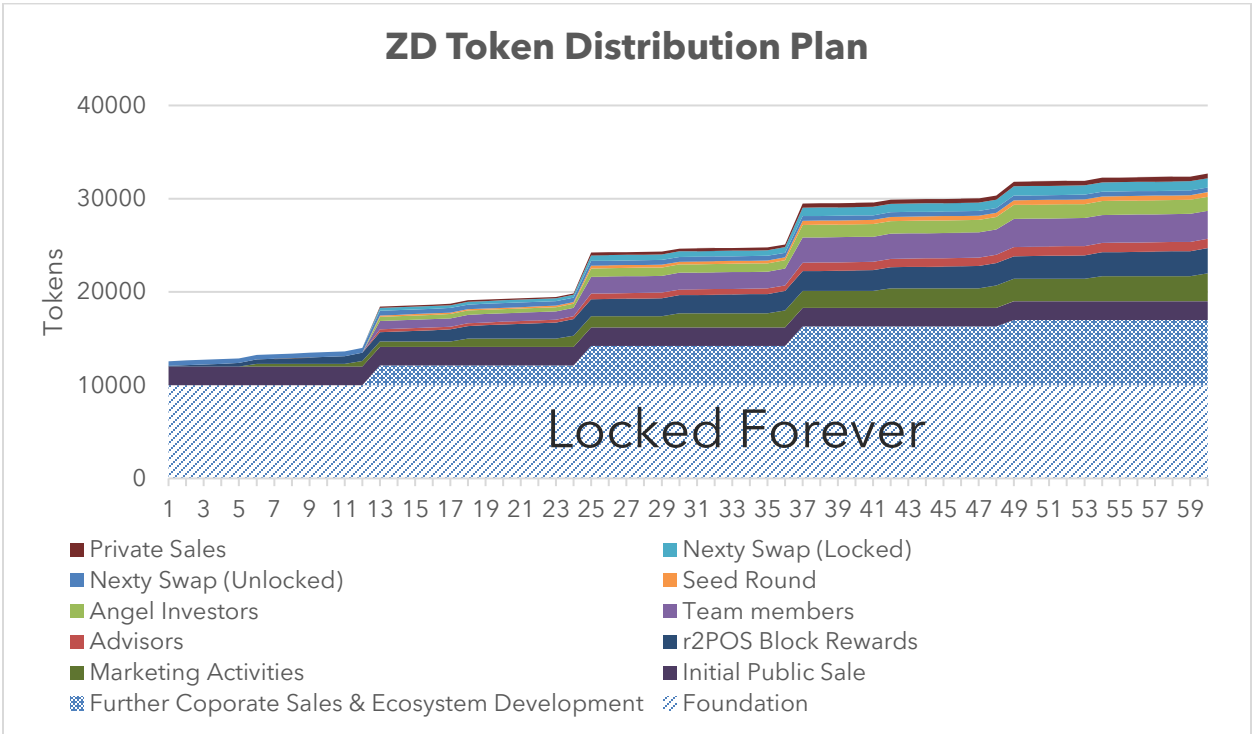
- *Payment gateway fee: 0.1% on each transaction*
- *Fee of onchain tx with gas consumed higher than 100,000 / tx*
- *Identity Ownership and Modification*
- *Dapp Referral Revenue*
- *Exchange Fee for tokens / loyalty points and voucher on EzDeFi exchange*
- *Cross-swapp Fee*
- *Crosschain tokens Swaps (for stablecoins and cryptocurrencies)*
- *Escrow Protocol Fee*

4. TOKEN ALLOCATION & DISTRIBUTION

Total supply: **30,000 ZD**

Block rewards (per 2s): **0.00005 ZD** (~ **788 ZD** per year)





5. TEAM MEMBERS

Prof. Alex Siow
National University of Singapore
Strategic Advisor

Prof. Keith Carter
National University of Singapore
Blockchain Advisor

Andy Yeo
Legal Advisor

Thanh Dao, MBA
Cardiff Metropolitan University, UK
Founder / CEO

Loc Dinh
Founder / CCO

Anh Phan
CoFounder / CTO

Phuc Anh, PhD
Havard University, USA
R&D Lead

Hoang Nong
Blockchain Specialist

Son Me
Digital Marketer

Thang Nguyen
Smart Contract Leader

Chinh Vu
Extension Developer

Tho Nguyen
Mobile App Developer

Pham Dat
PHP Developer

Louis
Technical Writer

Dat Hoang
Frontend Developer

Luiz Ribeiro
Brazil Ambassador

Duong Vi
Ecommerce Plugin QA

Ann Dao
Community Support

Hue Nguyen
Mobile & Extension QA

Tien Nguyen
Ecosystem Lead

Minh Nguyen
Community Support

Yen Nguyen
Customer Support

Ha Hoang
Community Support

Tu Luu
Designer

Hang Nguyen
HR

6. ACHIEVEMENTS

Since 2017, we has completed many milestones set both inside and outside of the roadmap including

EzDeFi Public Blockchain

- r2POS Consensus: https://docs.ezdefi.com/docs/technical-paper/docs/2.consensus.md
- Onchain Randomness : https://docs.ezdefi.com/docs/technical-paper/docs/4.randomness.md
- Onchain Governance: https://docs.ezdefi.com/docs/technical-paper/docs/3.governance.md
- Trustless Stablecoin ZUSD: https://docs.ezdefi.com/docs/technical-paper/docs/5.stablecoin.md

EzDeFi Payment Gateways: https://merchant.ezdefi.com

- Support Different Blockchain Platforms
    - Core for multiple chain support
    - More than 2000 tokens on 8 blockchain platform supported
    - More blockchain platforms: 1 – 2 week /platform
- Supported Different Ecommerce Platforms
    - WHMCS: https://marketplace.whmcs.com/product/5231-ezdefi-bitcoin-eth-and-cryptocurrency-payment-gateway-for-whmcs
    - Woocommerce: https://wordpress.org/plugins/ezdefi-woocommerce/
    - Easy Digital Download: https://wordpress.org/plugins/ezdefi-easy-digital-download/
    - Opencart: https://www.opencart.com/index.php?route=marketplace/extension/info&extension_id=38282
    - Magento: https://github.com/ezDeFi/ezdefi-magento-2/releases
    - Prestashop: https://github.com/ezDeFi/ezdefi-prestashop
    - More ecommerce / invoicing / billing systems: 2 – 3 week / platform

EzDeFi Wallet

- https://play.google.com/store/apps/details?id=com.ezdefi
- https://apps.apple.com/us/app/ezdefi-crypto-bitcoin-wallet/id1492046549
- https://chrome.google.com/webstore/detail/ezdefi/bangadcapihadohjgdihpcpmjlepokld
- Support Different Blockchain Platforms
- Core for multiple chain / tokens / dapps support
- More than 2000 tokens on 8 blockchain platform supported
- More blockchain platforms: 2 – 4 week /platform

EzDeFi Browser Extension

- Support Different Blockchain Platforms
- Core for multiple chain / tokens / dapps support
- More than 2000 tokens on 8 blockchain platform supported
- More blockchain platforms: 2 – 4 week /platform

7. ACKNOWLEDGEMENT

EzDeFi would like to thank the effort of the board of executives, the development team, the marketing team, and the board of advisors for their tireless contribution to this open-source project.

8. CONTACT US

Website: https://ezdefi.com
Email: info@ezdefi.com
Facebook: https://facebook.com/ezdefi
Twitter: https://twitter.com/ezdefi