

White Paper

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Problems to Solve

Cryptocurrencies nowadays are realized as "digital gold" because they are trusted and valuable. There are thousands of coins and tokens but only a few popular ones are accepted as payment currencies to buy goods outside the cryptocurrency world, just because of their popularity and market value. To make cryptocurrencies pervasive, we need to overcome the problems. Here key problems that TiFi token solves:

Tokens fail to offer stimulation for financial transactions

Most coins and platforms encourage people to stake their tokens for a specified interest. This is an attractive incentive for holders and in return they get more coins. However, these platforms mint more coins/tokens that cause inflation, and introduce high transaction fees making it uneasy for holders to use their coins to purchase goods or stake/unstake too frequently. Holders desist from using their tokens to carry out daily transactions because it is too costly.



The fluctuation of cryptocurrency prices induces people to buy low and sell high for profits; however, there are more incentives for people when they purchase goods in fiat currencies in real life than trading in an unpredicted market.

TiFi Token is changing the status quo by offering similar and even better incentives than using fiat currency in purchasing commodities. TiFi Token encourages people to trade with its token by providing cash rewards commonly known as “rebates.” Rebate is a reward system employed by banks when you use their cards to purchase certain commodities, this stimulates people to spend more therefore increasing the company profit. Similar approach is implemented in TiFi Token to bridge the discrepancies.

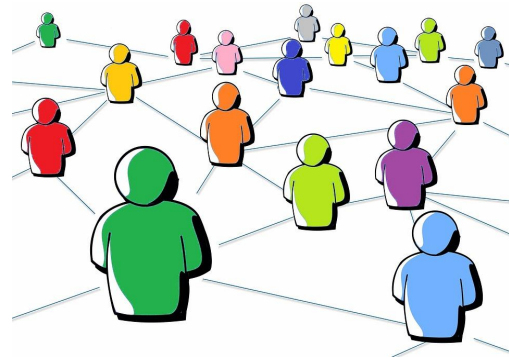
Token holders have to stake and pay gas fee to earn interests

TiFi Token holders can earn reflections as long as they hold the token. There are no stake or gas fees incurred during the process. The more tokens you own, the more tokens you will earn, and the interests are reflected in your wallet in real time. Holders can earn more when there is an increase in transaction volume on the blockchain, which is encouraged by the cash reward system mentioned above.

TiFi token takes a small portion of the transaction fee and puts it into the interest pool, which is a part of TiFi Bank, so TiFi token holders can earn tokens from 3

sources: transaction rewards, reflection and interests from TiFi Bank.

As metaverse and NFT increase in popularity, so is the need to improve the bridge between virtual and reality. TiFi is an allverse ecosystem that enhances and simplifies the exchange from metaverse to universe and vice versa.



Stakes and Fake Burns Make Inflation of Tokens

Some tokens offer high APR rates to attract investors to buy or hold the token; however, this strategy may lead to inflation thereby devaluing the price of the token. This is because a high APR means excessive token supply. Although token burning is used to reduce this supply, a system used by most projects; they send tokens to a burn address, and the process is referred to as "burn". However, most of these are fake burns because the burn addresses (e.g. 0x0...dEaD or 0x0...0000) mean nobody owns the private key right now to the address, still, in reality some people can hack into these addresses and put these tokens back into the market, leading to massive inflation. There is no guarantee of security for these kinds of "burn addresses".

TiFi employs a new technology which stops the total supply from increasing through automated burn implemented in the smart contract. TiFi decreases its total supply through an algorithm in its smart contract rather than sending to a burn address.

Introducing TiFi

TiFi /taifai/ is short for **The integrated Finance**. Our mission is to build a financial ecosystem that:

- Elevate the benefits of owning cryptocurrency.
- Encourages people to exchange goods in the real world using cryptocurrency.
- Bridges the metaverse and universe.

TiFi Token

TiFi Token (TIFI) is the decentralized token that builds the integrated finance ecosystem for allverse. It contains the following features:

TiFi Rebate

All holders get 1% of tokens back into their wallet whenever they transfer tokens to another wallet. This will lead to the massive adoption of the token as a payment currency.



Grow token assets

A portion of transaction volume (1.2% for selling tokens and 0.6% for other cases) will be distributed to every TiFi token holder.

Boost value by burning

A small portion of transaction volume (0.4% for selling tokens and 0.2% for other cases) will be burnt to boost TiFi token value.

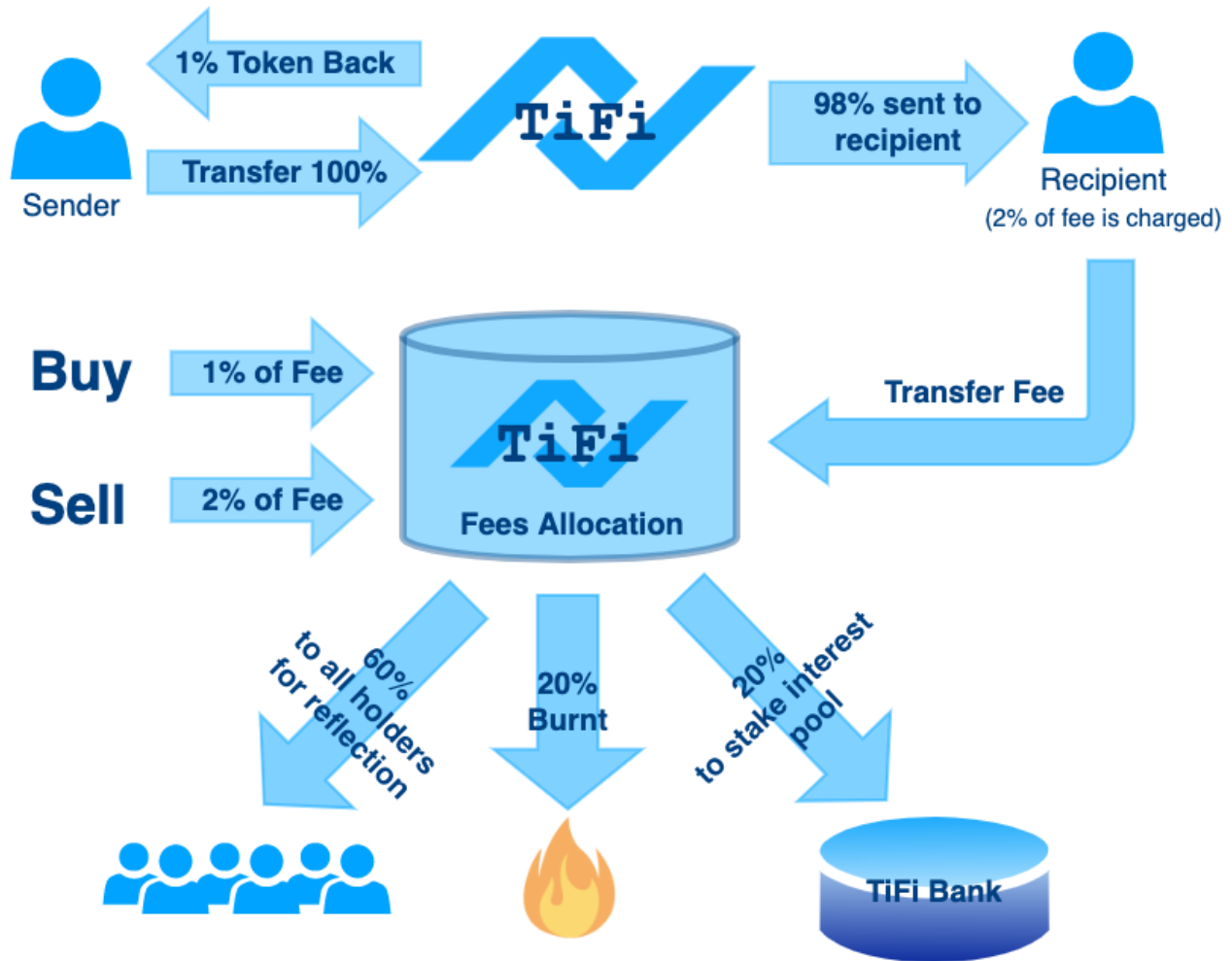


Low Gas Fee

Since the TiFi smart contract is running on BSC (Binance Smart Chain), the gas fee is much lower than the transactions on Ethereum Network.

Tokenomics

Here are the technical details of the contract:



- The initial total supply and maximum supply is 1 quadrillion; the TiFi smart contract ensures that no dilution will happen.
- Token senders get a 1% rebate whenever they transfer to another wallet, it will encourage consumers to pay with TiFi and boost business sales.
- Token recipients have 2% of fee, which means recipients get 98% of the transferred amount. The fee will reward holders and stimulate trading with TiFi.
- When you buy TiFi tokens from the liquidity pool, 1% of the purchase amount will be charged.
- When you sell TiFi tokens to the liquidity pool, 2% of the selling amount will be charged.

- The charged fees will be allocated as below:
 - 60% of the fee allocation is reflected to all holders as passive income.
 - 20% is burnt, which prevents inflation and makes the token more valuable.
 - 20% is preserved for TiFi Bank, this portion of the fund will be paid as stake interest once TiFi Bank is launched. Before TiFi Bank is launched, the fund is preserved in the wallet owned by TiFi Community.

Reflection, Reward and Fee Calculation

TiFi token smart contract introduced new concepts of reward and multi-purpose reflection, so when calculating the outcome of each transfer or accumulated transfer, TiFi adopts the unique approach to maximize the token gains for all parties of TiFi holders.

When user1 transfer TiFi tokens to user2, if we have the following variables:

P_1 is the balance of user1 before transfer.

P'_1 is the balance of user1 after transfer.

P_2 is the balance of user2 before transfer.

P'_2 is the balance of user2 after transfer.

t is the token amount to be transferred.

r is the reward rate (1%)

c is the charge (fee) rate (2%)

R is the reflection rate (which is 0.6% = 60% x (2% of charge - 1% of reward))

B is the burning rate (which is 0.2% = 20% x (2% of charge - 1% of reward))

T is the total supply before transfer.

T' is the total supply after transfer.

Then:

$$T' = T - Bt$$

$$P'_1 = (P_1 - t + rt) \left(1 + \frac{Rt}{T - Bt - Rt} \right)$$

$$P'_2 = (P_2 + t - ct) \left(1 + \frac{Rt}{T - Bt - Rt} \right)$$

Let's consider the scenario when you want to calculate the accumulated balance after a period of time and you keep HODLing. Suppose there are n transactions happened during the period and the transferred token amount is from t_1 to t_n , and the balance before the period is P , so the ending balance P' will be:

$$P' = P \prod_{i=1}^n \left(1 + \frac{Rt_i}{T - Rt_i - B \sum_{j=1}^i t_j} \right)$$

Interaction with Liquidity Pool

The liquidity pool is a special wallet that doesn't receive rewards, the purpose of the design is to prevent growing the amount of TiFi token in the pool and diluting the token values for holders. So don't worry about the token shares in the pool, your proportion of token holding is much more than you think, so you can get more reflection as income.

TiFi Ecosystem

The goal of TiFi Ecosystem is to endorse value into everything, regardless of its location (the universe or metaverse). The decentralized smart contract hosts the consensus. As the TiFi community grows, we will bring more exciting products into the ecosystem.

TiFi Bank

Decentralized Exchange platform enables customers to exchange cryptocurrency smoothly and earn more rewards! TiFi Bank is a decentralized smart contract that allows TiFi token holders to exchange, stake, and earn tokens. We plan to release TiFi Bank in the 3rd quarter of 2022.

NFT & TiFi App

We bring the concept of Allverse, a platform that targets to bridge the metaverse and universe. TiFi hopes to create an integrated platform to trade merchandise between virtual and reality. The concept allows people to shop and trade products with NFTs. If the client lacks space at the time of purchase, they can choose to leave it in the hands of the vendor until when they are ready. This will save customer's effort to store and handle the product. The platform will only accommodate trusted vendors; ensuring customers get 100% satisfaction.

Here is how it works:

Browse

Go to TiFi Allverse App, and browse Products. This is a whole new online shopping experience. You shop real-world products, but with the NFT and cryptocurrencies.





Purchase

The customer places an order and gets an NFTs for the products she purchased.

At the time the customer holds the NFT, the customer has the ownership of the real-world product.

Trade

You can also trade NFT with other users on the TiFi Allverse App. By exchanging the NFT, you also renounce ownership of the real-world product to the new holder of the NFT.

It saves a lot of resources for delivery and transportation when trading these products.





Deliver

Customers can redeem the real world product and get the item delivered to their homes. At the point of delivery, the NFT is burnt or degraded.

In the TiFi App, the main crypto we use for payment is TIFI, and we also support other partner's cryptocurrencies.

TiFi will also integrate with vendors like Tesla, Apple and famous luxury brands. These companies get lots of order requests; unfortunately, they have insufficient products in inventory. However, they can use our platform to generate NFT to serve as virtual possession of the item at the moment. When the product is available, customers can exchange and redeem later.

For example, when the price of gas soared, lots of customers bought Tesla but there weren't enough inventories to service the customers; in such cases TiFi NFT can be used as a unique digital asset to provide proof of ownership of the physical asset without delivery to customers.



The TiFi Ecosystem will help the world to fight against inflation, resource shortage, and make the world's economy sustainable and healthy.