

<https://tom.finance>



Whitepaper v1.0.0

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1. Background

1.1 The current state of the digital asset market

Since the fourth quarter of 2020, the demand for digital assets has been rapidly increasing, with the digital asset market represented by Bitcoin growing explosively. This is because the price of major cryptocurrencies, including Bitcoin, quickly hit an all-time high, and the market capitalization also surged to over \$2 trillion at one time, reaching a record high in November 2021. In addition, in the global digital asset market, the share of each virtual currency in 2022 is about 50.4% for Bitcoin, about 14.5% for Ethereum, about 4.1% for Binance Coin, about 2.8% for XRP, and about 2.5% for Tether.

Attempts to incorporate digital assets such as Bitcoin into the institutional system are centered on the European and Canadian markets, and Bitcoin ETF (Exchange Traded Fund) has been growing rapidly due to its relatively high accessibility and liquidity compared to direct investment. To directly invest in Bitcoin, you need to set up a cryptocurrency wallet or trade on an unregulated cryptocurrency exchange. However, Bitcoin ETFs can be easily bought and sold through existing brokerage accounts. Since it is traded on an exchange that is regulated, you can have confidence that market abuse or illegal activity is being monitored, and there is no risk of losing access to your bitcoins by losing the key to open your bitcoin wallet.

As the growth of the digital asset market appears to be a global trend, attempts to incorporate digital assets such as Bitcoin into the institutional system have been expanded, centering on institutional investors. The start showed high growth, recording \$100,000 in net assets in about half a year after the listing of 'Bitcoin ExchangeTraded Crypto (BTCE)', the first Bitcoin ETP that appeared on the Frankfurt Exchange in 2021. In addition, 'Purpose Bitcoin ETF (BTCC)' and 'Evolve Bitcoin ETF (EBIT)' were launched in Canada, and Bitcoin ETF was approved in Brazil at the same time as 'CI Galaxy Bitcoin ETF (BTCX)' and '3iQ CoinShares were launched. Subsequently, the first ETP 'ETC Group Real Ethereum ETP' to invest in Ethereum, the second largest in cryptocurrency market capitalization, was launched in Germany, and trading at the Frankfurt Exchange is rapidly spreading around the world.

When dividing the digital asset fund market by asset management companies, asset types and ETP types, Grayscale Investment Trust and Bitcoin (individual purchases) each accounts for an absolute weight.



1. Background

1.2 The innovation of decentralized DeFi

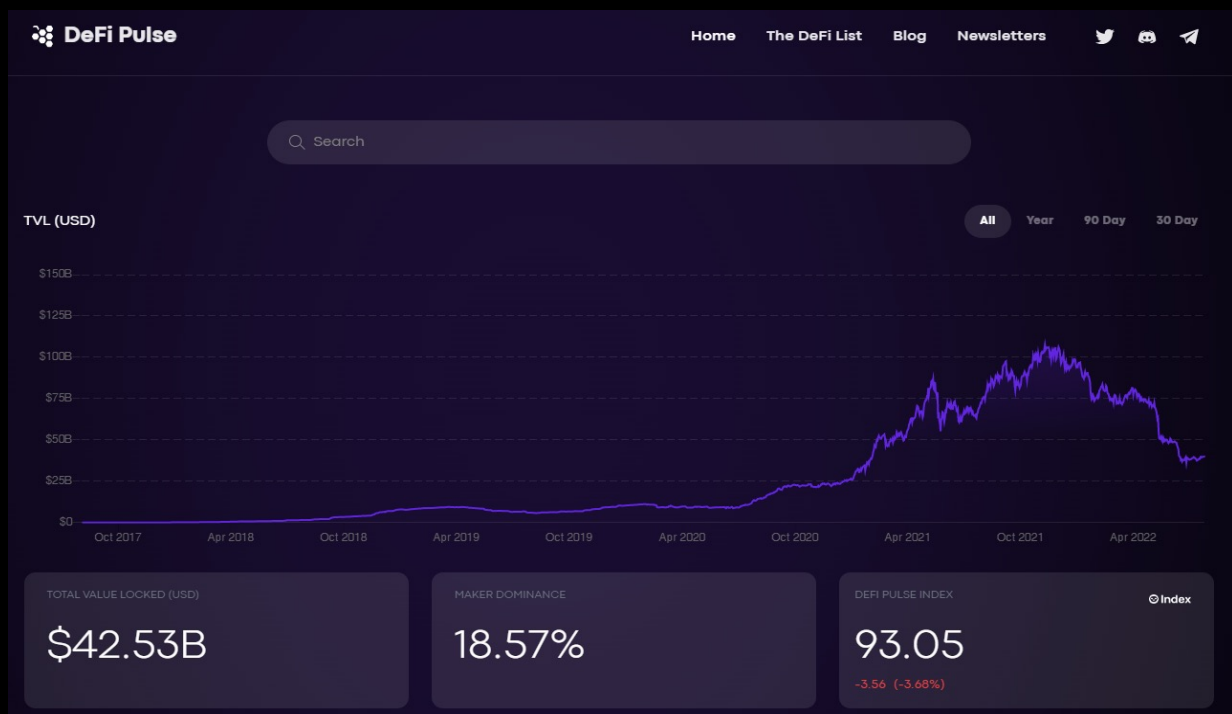
The size of the DeFi (Decentralized Finance) market has grown from \$68.09 million at the beginning of the year to 90 times in 8 months! The center icon of the virtual asset market, currently exceeding \$6 billion!!

Bitcoin, the birthplace of blockchain, is a decentralized digital asset such as the Internet of Money, digital gold, and store of value. In the history of more than 10 years, Bitcoin is recognized as a digital asset today, and Bitcoin has demonstrated the technology of blockchain in terms of being a transparent asset without an issuer. Ethereum, which was launched later, is recognized as a way to solve centralized finance due to decentralized smart contract technology.

Ethereum and Ethereum-related projects have begun to move the part that centralized finance was doing through automated codes, and through growth and development from 2018 to 2019, in 2021, it became the most attention-grabbing field among investors in the blockchain field.

In a recent research report, Bank of America (BoFA) analyzed that global DeFi deposits reached \$260 billion (about 310 trillion won) at the end of 2021, a 12-fold increase from \$21 billion (about 25.05 trillion won) at the end of 2020. . The funds deposited in the DeFi market were \$700 million (about 836.8 billion won) at the end of 2019 and are growing rapidly every year.

As the DeFi market continues to grow rapidly, traditional financial companies are rushing to enter the market. State Street, Fidelity, and Bank of New York, financial institutions in Wall Street, New York, USA, are operating virtual asset investment products. State Street, which manages about \$40 trillion, launched an organization in 2021 to provide virtual asset services to private equity customers.



<DeFi Pulse on July 22>

1. Background

The DeFi service, which began to appear at the end of 2018, has increased to hundreds worldwide and is being used in various fields such as lending, staking, decentralized exchange (DEX), derivatives, wallet, identity verification, prediction market, and insurance. In the meantime, various companies have introduced various dApps, but there are not many practical applications. DeFi improved the inefficiency of the financial system and led the blockchain industry to respond, and it is growing rapidly in a short period of time due to the influx of users who understand blockchain.

The traditional financial market and DeFi are not very different from a functional point of view. The biggest difference between the two is the subject of trust. Whereas traditional financial markets rely on central institutions such as banks, governments, and insurance companies as the subject of trust, DeFi is a financial transaction between individuals that utilizes smart contracts and decentralized asset deposits of the blockchain without going through a central institution or intermediary. It works by borrowing a certain amount of virtual assets as collateral, or by providing other collateral and borrowing virtual assets. This does not mean, however, that the central authority always acts maliciously. However, what DeFi pays attention to is to create an environment in which malicious actions cannot be performed, and the purpose is to block the possibility itself.

Decentralization also plays an important role in the stability of the entire system, and since the system is operated by nodes from around the world rather than a database of a central entity, it is safe from threats of hacking or system shutdown.

In addition, permissionless literally means an environment in which anyone can participate. The current financial system is quite closed, and in some cases, banks do not open accounts with customers, and in many cases certain qualifications are required to sign up for some financial products. The World Bank also reports that around 1.7 billion adults worldwide do not have a bank account, more than 20% of the population.

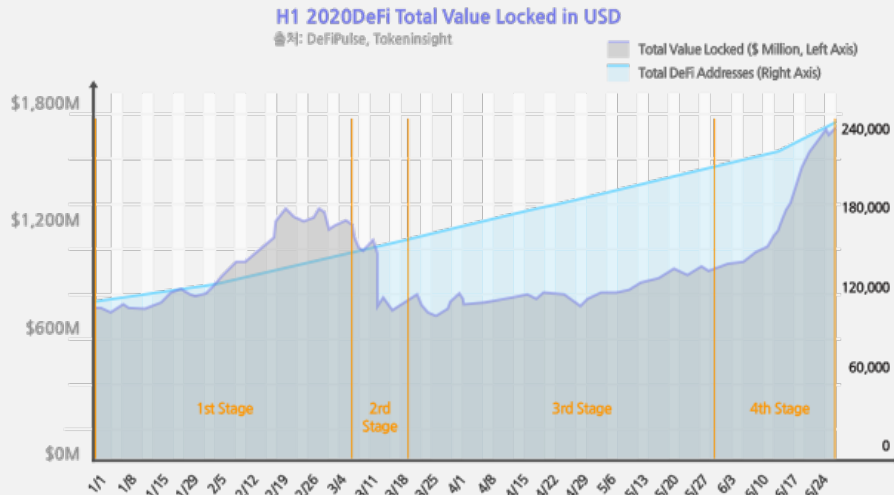
DappRadar						
Rankings Portfolio NFTs DeFi RADAR Blog						
CONNECT →						
	CATEGORY	BALANCE	USERS	VOLUME	ACTIVITY	
1	MetaMask Swap ETH	DeFi	\$55.82M	4.81k +4.97%	\$4.2M	
2	Sushi ETH	DeFi	\$378.5M	1.72k +10.38%	\$22.4M	
3	Polygon POS Bridge ETH	DeFi	\$4.41B	1.25k -10.37%	\$17.93M	
4	1inch Network ETH	DeFi	\$5.4k	1k +2.24%	\$2.98M	
5	CowSwap ETH	DeFi	\$161.13k	559 +18.68%	\$27.47M	
6	HEX ETH	DeFi	\$1.22M	539 +22.78%	\$0	
7	Aave V2 ETH	DeFi	\$49.82k	521 +2.76%	\$1.06k	
8	ShibaSwap ETH • BNB-Chain	DeFi	\$415.67M	388 +10.23%	\$365.46k	
9	LIDO ETH • Moonriver • Moonbeam	DeFi	\$301.35M	332 -3.77%	\$470.33k	
10	Convex Finance ETH	DeFi	\$828.96M	326 +2.52%	\$2.05M	

<Ethereum-based DeFi: Ranking and Growth>

<Source : www.dappradar.com>

1. Background

"In the first half of 2020, in the DeFi ecosystem, TVL will increase by 1 billion dollars, grow 147% for half a year, and the growth rate will be maintained"



In some countries in South America, including Venezuela, Bitcoin and Dash are more actively used than the national fiat. In some Southeast Asian countries, including the Philippines, where P2P remittance has developed, remittance using cryptocurrency is spreading beyond the complex and restrictive banking system, and the more unstable the financial system, the greater the potential and accessibility of DeFi. In these countries, payment using mobile devices is more active than remittance through banks in real life. Although this is still an environment managed and supervised by fintech companies and telecommunication companies, the crypto industry has been trying to bring in a population that has been excluded from the financial ecosystem for a long time, and with the development of DeFi, this will become even closer.

Transparency and censorship resistance have many advantages in terms of protection of personal information and compared to numerous qualifications in the existing financial sector, DeFi users do not need to disclose personal information. While central institutions have so far requested too much personal information, in the DeFi ecosystem, the desired level of personal information can be selectively disclosed to other parties. The global data market is growing to about 250 trillion won this year, and the commercialization of personal information is expected to accelerate, and identity information service using DeFi is also a field that can be widely applied in the nearest future.

In a centralized environment, humans must ultimately decide and confirm all transaction processes. Although some automation was achieved with the introduction of fintech technology, it is difficult to compare with DeFi, which is based on smart contracts.

While the current financial sector charges an average of 5% or more for cross-border remittances, in the DeFi environment, a fee of 1-2% is set, and DeFi has excellent efficiency in terms of speed. In general, cross-border remittance through banks takes 1-2 days, whereas in the DeFi ecosystem, all transactions are usually completed within 10 minutes. An incentive mechanism and a consensus mechanism, which were not present in the existing single/authority-based system, are essential conditions, and more free and convenient financial activities will continue.

1.3 Applications of NFT

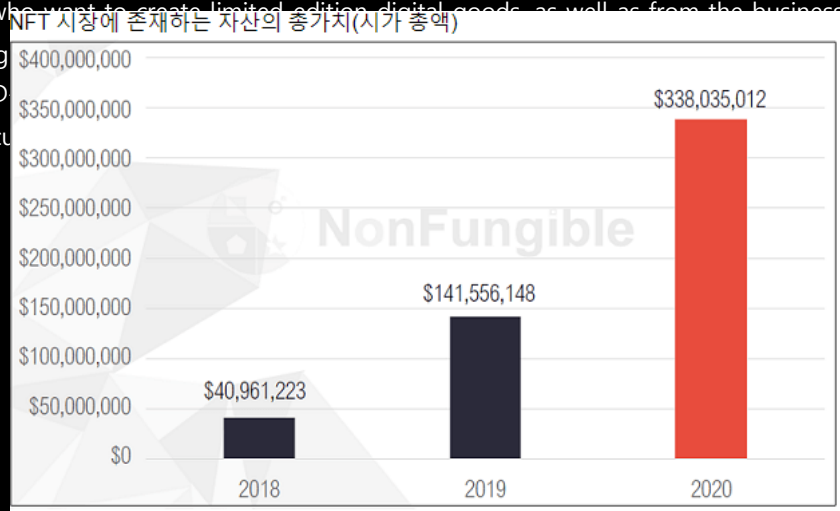
Expected growth from \$14 billion (about 17 trillion won) in 2021 to \$35 billion (about 43 trillion won) in 2022

It was Bitcoin announced in 2008 that introduced and popularized blockchain technology to the world, but it started with Ethereum announced in 2015 that opened the era of full-scale blockchain. By adopting complete smart contract technology, Ethereum shows new possibilities in the block chain that has remained as a means of storage of value and opens an environment of explosive growth with a new decentralized ecosystem such as functional tokens, DApps (Decentralized App), and ICOs. gave.

In addition, even if there is no third-party intermediary such as a bank, anyone can make reliable and secure transactions using blockchain technology. Blockchain can be used not only for cryptocurrency, but for all data processing that has online transaction history and requires history management. Blockchain can be used in a variety of ways, such as smart contracts, logistics management systems, document management systems, medical information management systems, copyright management systems, social media management systems, game item management systems, electronic voting systems, and identity verification systems. In addition, blockchain is one of the core technologies of the 4th industrial revolution, and among them, digital assets and businesses using them are attracting attention, and at the same time, the digital asset platform development business has become the most popular field.

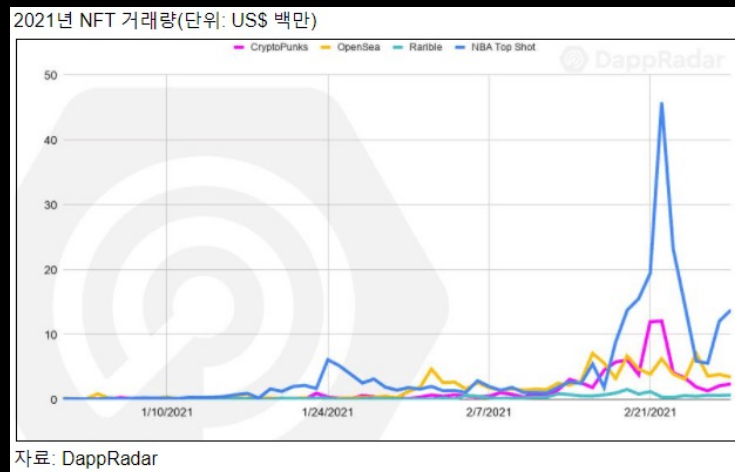
NFT (Non-fungible Token) is a technology that uses blockchain technology to give unique marks to digital content. Since digital items can be easily reproduced without restrictions, it has not been possible until now to clarify which is the original and who owns it. However, when an NFT is created, authentication and proof of ownership of the corresponding digital item are performed, so it becomes a 'digital asset' and can be freely bought and sold between people who want to trade.

Thanks to these attributes, NFTs are receiving keen interest from artists such as painters, musicians, creators, and filmmakers who want to create limited edition digital goods, as well as from the business community. It is also worth noting that thanks to COVID-19, the demand for digital assets has increased significantly, with early adopters, cryptocurrency trend.



1. Background

The total value (market cap) of assets existing in the NFT market surged to \$40.96 million in 2018, \$141.55 million in 2019, and \$338.03 million in 2020.



NFT trading volume (in US dollars) also increased by about 300% from \$62.86 million in 2019 to \$250.85 million in 2020. In addition, the number of digital wallets used for transfer (sale) and holding of NFTs doubled from the previous year to 222,179 as of last year. Growth in the first quarter of 2021 will be stronger than in 2020. According to Dapp Radar, a media specialized in cryptocurrency, in February alone, the top three NFT marketplaces, NBA Top Shot, OpenSea, and CryptoPunks, had an NFT transaction volume of \$342 million.

By analyzing the sectors where NFTs are mainly traded, you can see the direction the NFT industry is taking. As of 2020, the major trend fields that underlie the NFT market are art, collectibles, metaverse, sports, games and utilities, etc., and distributed in the market based on sales volume.

In addition, the NFT industry is developing rapidly around the world, and major global companies are rapidly approaching the NFT industry. In the video game market, Ubisoft, Mythical Games, Capcom, SquareEnix, Atari and others participate. The sports market includes NBA, MLB, Formula 1, PSG, FC Bayern München, Real Madrid & more than 100 football. In the fashion sector, Nike is the representative, and in the entertainment sector, there are BBC Studios, Warner Music, Paramount Pictures, etc. In the field of technology infrastructure, there are Samsung, IBM, AMD, Microsoft Azure, etc., and in the field of art and auction, Christie's, Sotheby's, deadmau5, Lil Yachty, etc. are rapidly expanding.

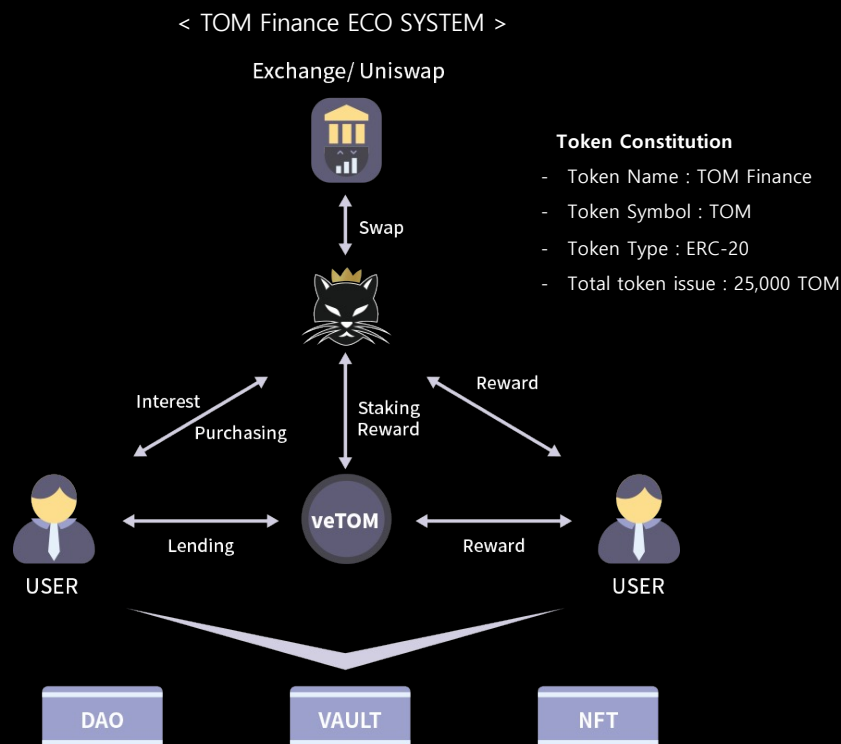
The non-fungible token (NFT) market is expanding in these various fields, but the collection part is gradually decreasing based on the sales revenue of the current NFT market, and the ART part is rising with the second most active transactions with users. Since then, the game industry has remained popular as a beneficiary of the pandemic and is accelerating its growth with various derivatives such as minting and staking.

2.1 TOM FINANCE PLATFORM

TOM finance is a multi-chain based DeFi and NFT platform. DeFi, which is difficult to access, is designed so that anyone can access it in a friendly way and participate in governance by depositing the Vault service and TOM that provides optimal rewards by linking UniSwap and KlaySwap-based swap services and various virtual assets with other DeFi protocols. We want to provide a DAO service that receives rewards and an NFT marketplace service that combines NFT with DeFi.

TOM was provided as a staking reward for participants who participated in the Ether-based SWAP pool, and all 25,000 were issued, and there is no further issuance. There is no risk of inflation as there is no additional issuance. TOM can be purchased through exchanges and DEX Swap, rewards can be obtained when participating as LP in Swap, and DAO is provided for TOM holders to participate voluntarily.

- TOM VAULT services based on DAO
- NFT Marketplaces combined with DeFi services DeFi



What is **veTOM**?

For investors who have staked TOM more than 3 months, veTOM is rewarded. This token cannot be transferred as a vote escrowed token, and holders of this token can participate in voting and receive a share of the profits from Swap, Vault, and Marketplace.

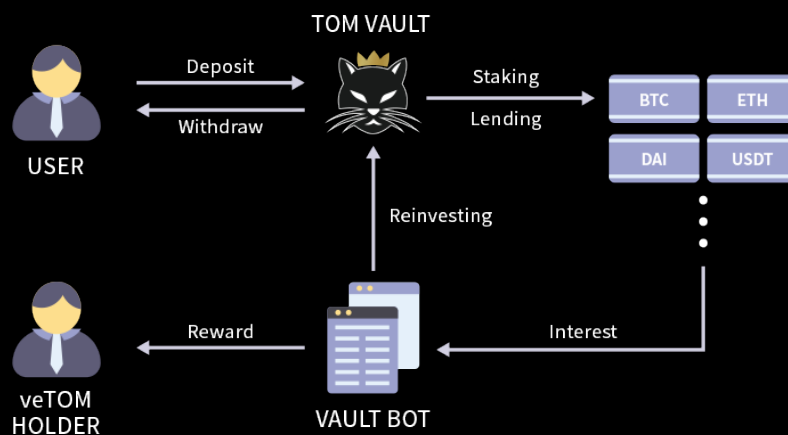
2.2 TOM SERVICE

1. TOM VAULT SERVICE

TOM's Vault service provides a service that generates stable revenue by using an external DeFi protocol. It automatically executes the DeFi protocol optimization task that is difficult for users to directly execute to pursue the optimal rate of return, and TOM's Vault service does not require a separate fee for deposits and withdrawals. However, a separate fee may be required depending on the strategy implemented.

The virtual asset deposited by the customer is automatically invested and reinvested in the protocol of assets such as BTC, ETH, USDT, USDC, DAI, etc. By combining Lending and Staking in protocols such as Cream Finance, Yearn Finance, Compound, Aave, Uniswap, Maker, Chainlink, and Synthetix, the optimal interest rate is provided, and a portion of the revenue will be rewarded to the operation team and TOM holders.

< TOM VAULT Service >



veTOM is issued when long-term staking for more than 6 months through inducing users' voluntary participation and staking.

- Amount of veTOM issued = TOM staked * Period of staking * (1 + Total Period/6 months * 0.05)

The staking period is provided for a minimum of 6 months and a maximum of 4 years, and you can secure more veTOM for long-term deposits. The secured veTOM can be used for governance voting in addition to the operating profit share, and various partners and usages will continue to be developed/added.

DAO will run on Snapshot.org and will provide a dedicated platform for veTOM users in the future.

2. TOM NFT SERVICE

TOM finance forms a partnership with various NFT teams and provides a marketplace where TOM finance can issue, sell, and manage desired NFTs. In addition, for innovative content developers or new writers, we intend to solve the unequal market situation by providing and sponsoring opportunities to be recognized for the value of various digital works in order to solve the entry barriers in the existing market.

The value of digital assets is supported through the NFT technology of proof of ownership in the TOM NFT service, and through this, it acts as an intermediary to increase users' profits with derivative products such as the sale and loan of digital assets of participants.

For the TOM NFT service, TOM holders can receive discounts and airdrops during NFT minting. The participants in the TOM NFT service are qualified to purchase or bid a specific rare item. Users holding unique NFTs can apply for NFT Lending. As a result, profits are distributed to the participants.

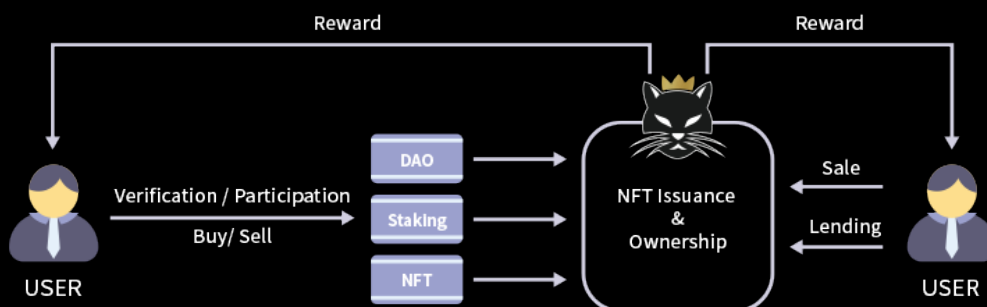
In addition, through TOM DAO, NFT projects can be conducted so that participants can directly verify creators and works and increase the value.

All participants in the TOM NFT Service,

1. who participate in NFT Lending;
2. participate in NFT Staking, or;
3. purchase or sell NFT products,

will be rewarded as veTOM according to the levels of their contribution.

< TOM NFT Service >



TOM FINANCE SMART CONTRACT TECHNOLOGY

THE ERC-721 TOKEN, AS OPPOSED TO THE ERC20 TOKEN, PRESENTS A 'NON-FUNGIBLE' FEATURE.

ERC-721 is an NFT standard known as a deed, and is an abbreviation for Non-Fungible Token, meaning non-fungible tokens. Therefore, tokens issued as ERC-721 are non-fungible and all have different values. ERC-721 is mainly used for various digital assets rather than the token itself, and a representative model is "CryptoKitties". Since the cats in "Crypto Kitty" have different appearances, the cat you own becomes the only digital cat in the world. "CryptoKitties" is a service model of a successful case that utilizes the characteristics of ERC-721 as a collectible token.

ERC-721 allows tokens to be shared within the platform and become collectibles that can influence future NFT creation. Users get fun from collecting one and only one-of-a-kind items in this world. NFTs can be supplied indefinitely, but most projects limit the total supply of NFTs in order to prevent damage to value.

By adopting ERC-721, TOM gives unique, non-fungible value to the unique digital assets exhibited and traded on the TOM Finance platform. Even if the service is stopped, the user's safe asset management is prioritized so that the value of the item can be maintained in the Ethereum ecosystem.

The key purposes of persisting these various products are to enable the blockchain to see through the seller's histories when the buyer wants to redeem the products; to enable the tracking of the ownership of those items so that transactions between two accounts can be performed accurately. Since TOM can recognize multiple NFTs representing the same digital assets through the stated features, the information – the total number of tokenized digital assets existing on the blockchain, the total historical transaction prices of that item, the number of tangible or intangible assets held by each user – can be provided.

As TOM increases access to NFTs for many blockchain DeFi products, it increases the liquidity of NFTs and TOM tokens. In the case of large amounts of transfers and transactions, users can also transact on long-tested networks such as Ethereum, which has high security, but takes more time and cost for flaws in the on-chain.

In addition, UniSwap V3 0.05% pool is used for SWAP between stablecoins internally. In the case of non-stable coins, the optimal pool is used in consideration of slippage and fees such as UniSwap V2 and V3, and for security, all oracle related codes are implemented using ChainLink. In the future, we will review Infura's support for services such as ITX and multi-chain to optimize fees.

04. Team & Advisor

TEAM



Scott Seo, CEO

HotbitKorea e)
Marketing Manager, 2020
Operation, Marketing
Seoul, Republic of Korea

BSA.Lab (Blockchain start up)
Team leader, 2017 ~ 2019
Blockchain project consulting,
marketing support
Seoul, Republic of Korea

Korea University,
Bachelor of Economics, 2003 ~ 2009



Jeffry Kim, CTO

Grand Korea Leisure, Co., Ltd.
Head of operation, 2009 ~ 2012
Seoul, Republic of Korea

Grand Korea Leisure, Co., Ltd.
Manager, 2005 ~ 2009
Incheon, Republic of Korea

Paradise Co., Ltd.
Head of sales, 1994 ~ 2005
Seoul, Republic of Korea

ADVISOR



Ren Yi

China Guangcai International Group
Co.,Ltd, Vice-President
Guangcai International Investment
Group focuses on investment, asset
management, convergence and new
city construction, modern ecological
farming, mining energy, and
premium production.



Berine

Huobi Indonesia Exchange,
Founding Partners
A graduate of Computer
Engineering School, Beijing
University of Aeronautics and
Astronautics Head database
Engineer of Beijing Airport
Terminal 3 Operation Center
Handled crucial database of cargo
system of Beijing Airport and
other international airports



Alexander Wan

Huobi Indonesia Exchange, Founding
Partners
Executive Director and CIO of Ping An
Securities Ltd.
Over 30 years of business experience in
asset management, investment bank,
advanced technology, natural resources,
and biotechnology in the U.S. and
Asian region.
Served as Vice President of
International Private Bank of Citibank,
Vice President and Head of Asia
Business Region 1 of Commercial Bank
of BNP Paribas



Shi Yanqiang

BLOCK GLOBAL, Founder &
Chairman
M.A. in Law, Tsinghua University
Founder of BLOCK GLOBAL
President of Global Blockchain
Alliance
11th Asia-America Multi-
Technology Association Cradle
Plan
Deputy Director, Blockchain
Expert Committee of International
Clean Energy Forum Professor at
Fuli Business School



Allen Liu

BLOCK GLOBAL, CEO / Coinin, CEO
Liu co-founded BlockTech Media in
March 2018, and has enjoyed rapid
growth of the business ever since. He
expanded his media business globally
to establish CoinIn in Korea,
BlockTimes in Taiwan, and Beecast in
Southeast Asia. His accumulated
investment reaches over 10M RMB.



Doobitnae Soft

Doobitnae Soft is the developer of technologies and products in line with the 4th Industrial Revolution and fintech. The company has developed various product lines such as algorithmic trading technology and Tidic solution. Tidic solution is a patent-pending QRbased information transmission and reception technology service.

Doobitnae supports Tom Finance in developing.



Tpayment

Tpayment is the payment device and mobility solution supplier for private and corporate taxi operating in Korea. The company supplies card reading devices to over 2,000 taxis in Gyeonggi-do, Incheon, and Gangwon-do. Tpayment is also collaborating with a 40,000 taxi- call solution provider with a goal of securing 20,000 affiliated stores in 2020.

Tpayment advises Tom Finance regarding to contactless payment methods and finance such as QR, and crypto payment



Chanyul

Chanyul provides the most optimal digital marketing solutions for clients' businesses to succeed. The company provides integrated digital signage solutions from display products based on differentiated technology to convenient software for optimal display marketing. In addition, it provides a smart tap order solution and electronic menu board.

Chanyul provides digital marketing solutions and consulting for Tom Finance



Bitwide

Professional blockchain developing company that is operating various blockchain platforms, cryptocurrency payment, NFT and other blockchain based technology & services development.

Bitwide helped Tom Finance developments and will help developments in the future as well.

Q4, 2020

- DeFi platform TomSwap open
- Tom Mining with TMTG&LBXC pool for 60 days successfully ended with 25,000 TOM distributed to all participants
- TMTG/LBXC pool operated for price stabilization
- 100M TRIX as reward with TOM staking
- 1,400% APY in DeFi investing profit
- TOM 2 token and 300M C-Bank for TOM holders to make extra profit

Q1, 2021

- DeFi DEX Tomswap v.1.0 launched
- Launched DeFi platform TomSwap

Q4, 2021

- Tom Finance launched new pool in Klayswap
- 1,000% APY in Tom/Klay pool in Klayswap

Q2, 2022

- Tom Finance launched new pools in Klayswap

Q3, 2022

- Tom Finance applied compensation system to new pools in Klayswap
- VAULT OPEN

Q4, 2022

- DAO OPEN
- NFT Marketplace OPEN