

# TT-Swap Technical White Paper

# A distributed network for the Smart Economy



# TT-Swap design goals: Smart Economy

TT is the use of blockchain technology and digital identity to digitize assets, the use of smart contracts for digital assets to be self-managed, to achieve "smart economy" with a distributed network.

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## 1/ Digital Assets

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Digital assets are programmable assets that exist in the form of electronic data. With blockchain technology, the digitization of assets can be decentralized, trustful, traceable, highly transparent, and free of intermediaries. Users are able to register, trade, and circulate multiple types of assets. Proving the connection between digital and physical assets is possible through digital identity. Assets registered through a validated digital identity are protected by law.

TT-Swap has two forms of digital assets: global assets and contract assets. Global assets can be recorded in the system space and can be identified by all smart contracts and clients. Contract assets are recorded in the private storage area of the smart contract and require a compatible client to recognize them. Contract assets can adhere to certain standards in order to achieve compatibility with most clients.

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## 2/ Smart Contract

The smart contract was first proposed by the cryptographer Nick Szabo in 1994, only five years after the creation of the World Wide Web. According to Szabo's definition: When a pre-programmed condition is triggered, the smart contract will execute the corresponding contract terms. Blockchain technology provides us with a decentralized, tamper-resistant, highly reliable system in which smart contracts are very useful.

Blockchain technology was introduced in 2008 with the launch of the Bitcoin currency, and since then entrepreneurs and developers have attempted to generalize the technology to support a wider range of applications on a single blockchain platform.

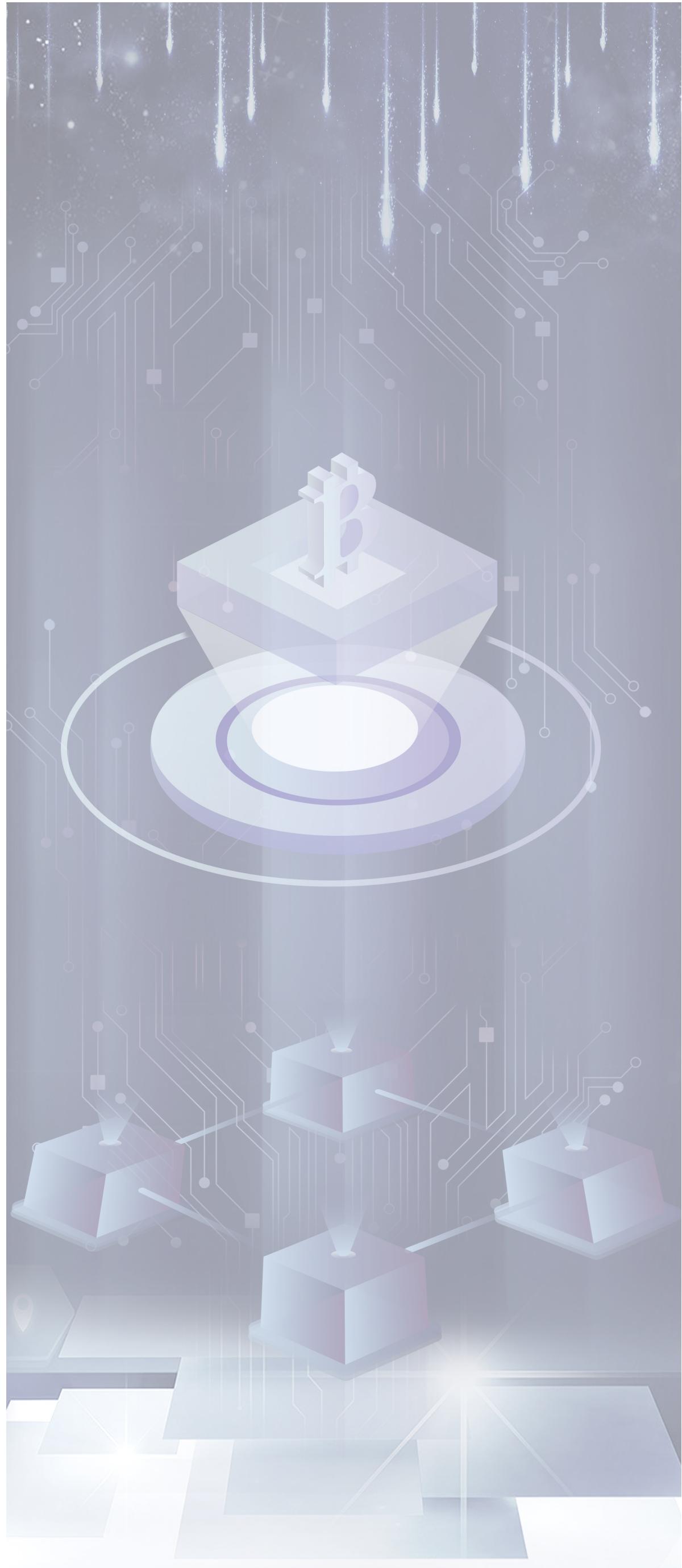
While a number of blockchain platforms have struggled to support functional decentralized applications, application specific blockchains such as the BitShares decentralized exchange (2014) and Steem social media platform (2016) have become heavily used blockchains with tens of thousands of daily active users. They have achieved this by increasing performance to thousands of transactions per second, reducing latency to 1.5 seconds, eliminating per-transaction fees, and providing a user experience similar to those currently provided by existing centralized services.

Bitcoin has created an era of blockchain and private decentralized money. Ethereum has created an era of smart contracts. Currently the Ethereum platform (ERC-20) has deployed many decentralized applications, And Tron has also created a new platform TRC-20, with a faster speed and cheaper transaction fees. TRC-20 is a token standard issued based on smart contracts on the TRON blockchain. One thing is that TRC20 is fully compatible with Ethereum's ERC20 standard, so tokens issued on ERC20 can switch SmartContract to use TRC20 and Bep20 Binance Smart Chain

## 3/ Decentralized Applications

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- Swap and trading
- Smart fund
- Social networking
- Payment and gifts
- Decentralized exchange
- Automated tokens liquidity providers
- AI-assisted legal smart contract
- Secure communication protocol
- Prediction market
- Intellectual property trading market
- Hashpower market
- Data exchange market
- Advertising market
- GAS market



## 4/ Requirements for Blockchain Applications

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In order to gain widespread use, applications on the blockchain require a platform that is flexible enough to meet the following requirements:

### 4.1 Support Millions of Users

Competing with businesses such as eBay, Uber, AirBnB, and Facebook, require blockchain technology capable of handling tens of millions of active daily users. In certain cases, an application may not work unless a critical mass of users is reached and therefore a platform that can handle very large numbers of users is paramount.

### 4.2 Free Usage

Application developers need the flexibility to offer users free services; users should not have to pay in order to use the platform or benefit from its services. A blockchain platform that is free to use for users will likely gain more widespread adoption. Developers and businesses can then create effective monetization strategies.

### 4.3 Easy Upgrades and Bug Recovery

Businesses building blockchain based applications need the flexibility to enhance their applications with new features. The platform must support software and smart contract upgrades. All non-trivial software is subject to bugs, even with the most rigorous of formal verification. The platform must be robust enough to fix bugs when they inevitably occur.

### 4.4 Low Latency

A good user experience demands reliable feedback with a delay of no more than a few seconds. Longer delays frustrate users and make applications built on a blockchain less competitive with existing non-blockchain alternatives. The platform should support low latency of transactions.

### 4.5 Sequential Performance

There are some applications that just cannot be implemented with parallel algorithms due to sequentially dependent steps. Applications such as exchanges need enough sequential performance to handle high volumes. Therefore, the platform should support fast sequential performance.

### 4.6 Parallel Performance

Large scale applications need to divide the workload across multiple CPUs and computers.

## **5/ Emerging Apps:**

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### **5.1 What is it?**

Instagram - Spotify. TikTok is the world's leading destination for short-form mobile videos. Their mission is to demonstrate the creative power and knowledge of the world by capturing important moments in everyday life.

### **5.2 Why is it important?**

In the ever-changing media landscape, many platforms come and go. In late 2017, TikTok merged with Musical.ly after being acquired by Chinese company ByteDance. While TikTok doesn't appear to be much different from other short-form video sharing apps, it has attracted consumers with its tendency to binge-watch video content. It focuses on vertical, fast, engaging video content that is both user and smartphone friendly, which may be the reason why it has grown rapidly since its release.

Is a HOT video social network where people share short clips inspired by music. Whether it's dance, dance, freestyle, or talent show, users are encouraged to let their imaginations run wild and express their individuality. Designed for the young generation who love music and creativity, Social networks allow users to easily and quickly create unique short videos to share with friends and young people around the world. TikTok is the new video social networking standard for creative young people. They strive to make creative minds part of the content revolution.

**5.2.1 [Sharp Quality]** Instant download, smooth interface and no lag. Every detail is rendered with impeccable quality.

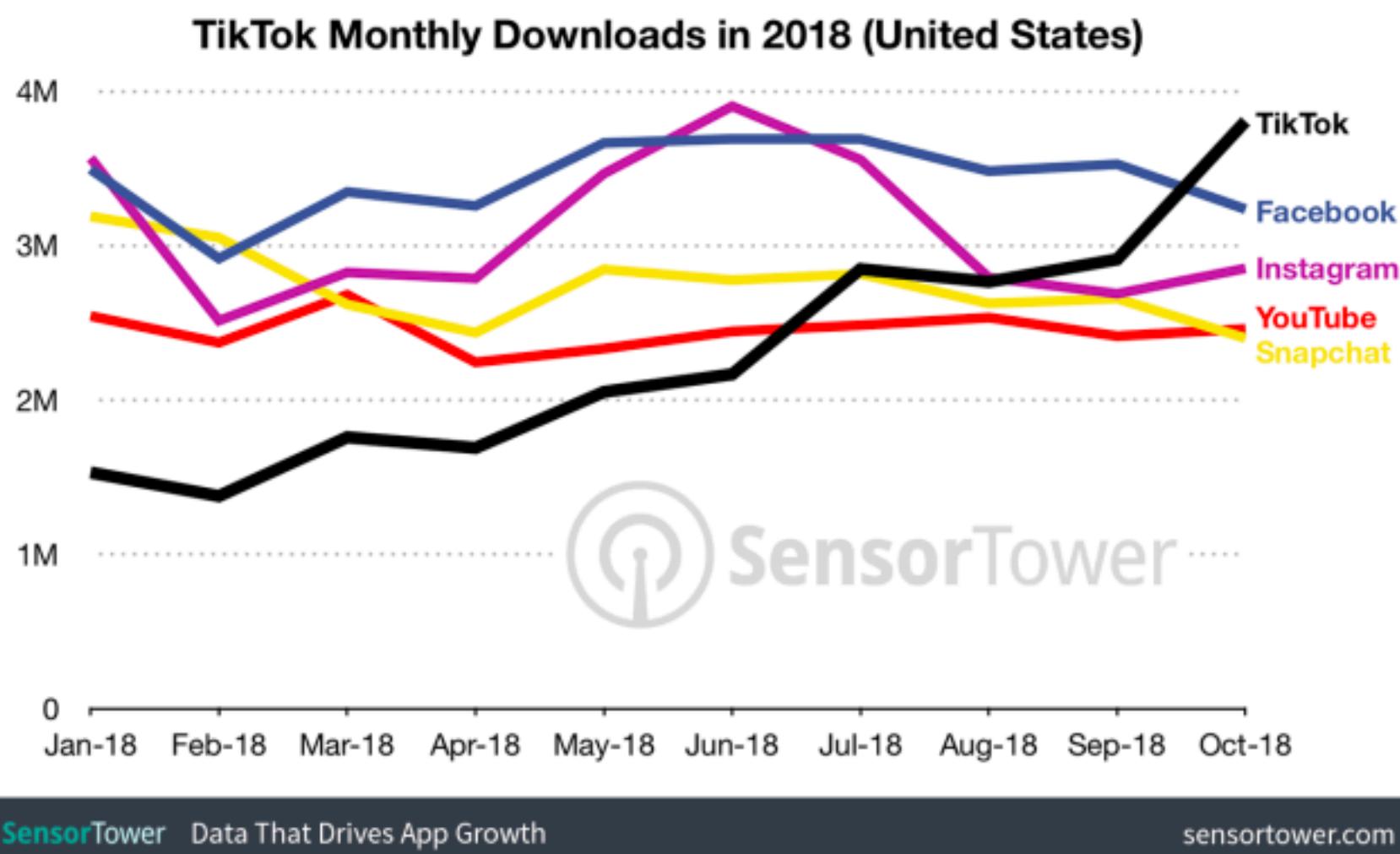
**5.2.2 [Mobile Studio]** The perfect combination of artificial intelligence and video recording. Features synchronized tunes, special effects, and cutting-edge technology. Turn your phone into a creative home studio!

**5.2.3 [Large Music Library]** Taking users' creative potential to the next level and unlocking a world of millions of new tracks updated every second, TT-Swap joins the trend with them.

TikTok app hit 1 download rate in February 2019. By April 2020, the number of downloads reached more than 2 billion in the world. After 1 year, the number of downloads for the TikTok app has doubled. By the end of the first quarter of 2020, TikTok reached 58% with 315 million downloads.

On the Apple App Store, TikTok beat big names like Youtube, Instagram, WhatsApp... with 33 million downloads. Advised on the list of most downloaded app games in 2018.

To meet the needs and trends of payment and gift applications, TT-Swap has launched 157 billion tokens, aimed at the community of these ecosystems



## 6/ Instruction: Basics

1. Create an account
2. Start recording and sharing videos (videos can be up to 15 seconds long, but users can chain clips together for up to 60 seconds)
3. Select a popular song or sticker to attract viewers

Users' videos if loved by many people, they can receive a gift, TT performs marketing and connects gifts for users.

## 7 / Distribution TT

Diverse TT distribution by smart contract-based mining and many other mining methods,

### Step 1/

Airdrop users follow Twitter pages, join telegram groups and send personal wallets. Within 24 hours, you will automatically receive a free TT token.

### Step 2:

You can sign up for a user account to get an additional 5000 TT for free and immediately withdraw it to your personal wallet (Tronlink).

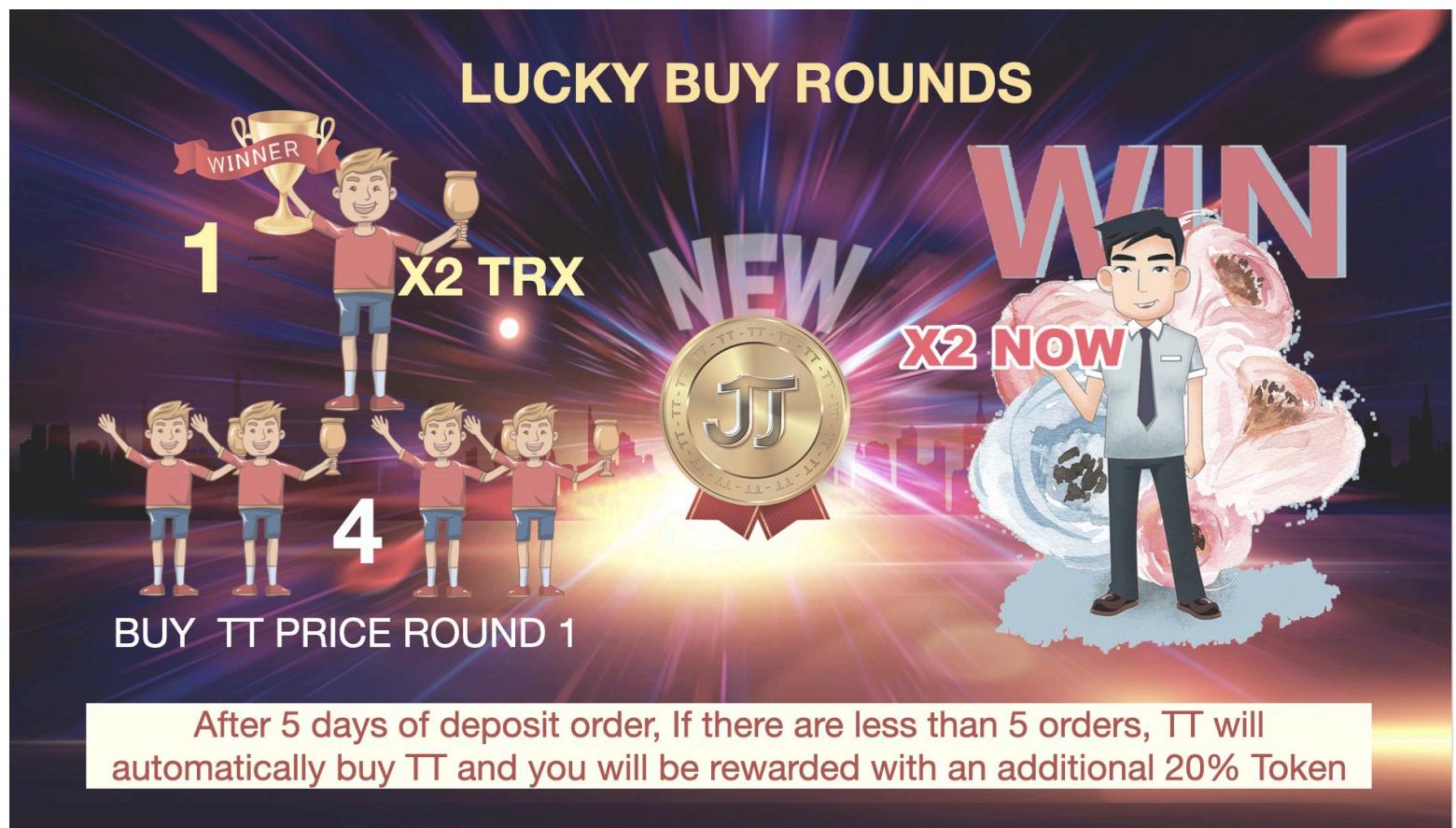
### Step 3:

Users can buy TT at the price of the time they want to buy.

Or by-through (lucky by round)

This program will appear in 5 rooms with 5 different levels of participation,

- Normal room 100 TRX
- Standard room 500 TRX
- Gold Room 1000 TRX
- VIP Room 2500 TRX
- Super VIP Room 5000 TRX



Users choose to participate with the right TRX, each room when there are 5 buy orders will automatically result.

- In 5 orders, there will be 1 lucky order to receive double the amount of TRX placed immediately after.

The remaining 4 orders buy TT at the current price in that batch and get an additional 20% discount for each order.

User can place multiple orders per round for higher win rate.

In case the order is placed at a certain room, after 5 days from the date of the first order and still not enough 5/5 orders, the system will default to end, you will be able to buy TT at the current price, and receive add 20% TT

#### **Step 4:**

Buy TT Users can buy TT with minimum starting price and Withdraw money to personal wallet instantly.

Payment method for internal transactions or transfers to each other, When there is enough time to sell batches, users can go to a third-party exchange.

During normal mining, TRX, JST, USDT, SUN, USDJ, WIN, BTTH High quality community projects and other mining pools will be established.

Users can participate in mining by staking different tokens on justSwap or Pancakeswap

### **7.1 Connection Bonus Program**

User sign up tt-swap.com to buy TT coin with starting price \$0.00005/1 TT, They will get 10 extra rewards on total purchased amount.

The TT price increases gradually until \$0.00045 Community starts the Bep20 TT Swap and continues to do Airdrop again, with the remaining amount of TT undistributed, before moving to the exchange.

Send a link to connect new users to receive more commissions with TRX.

#### **BONUS POLICY:**

- Buy TT on the web will get an extra 10%.
- Buying through the Lucky Buy Round, you have a chance to double your deposit.

#### **3 Life Referral Bonus**

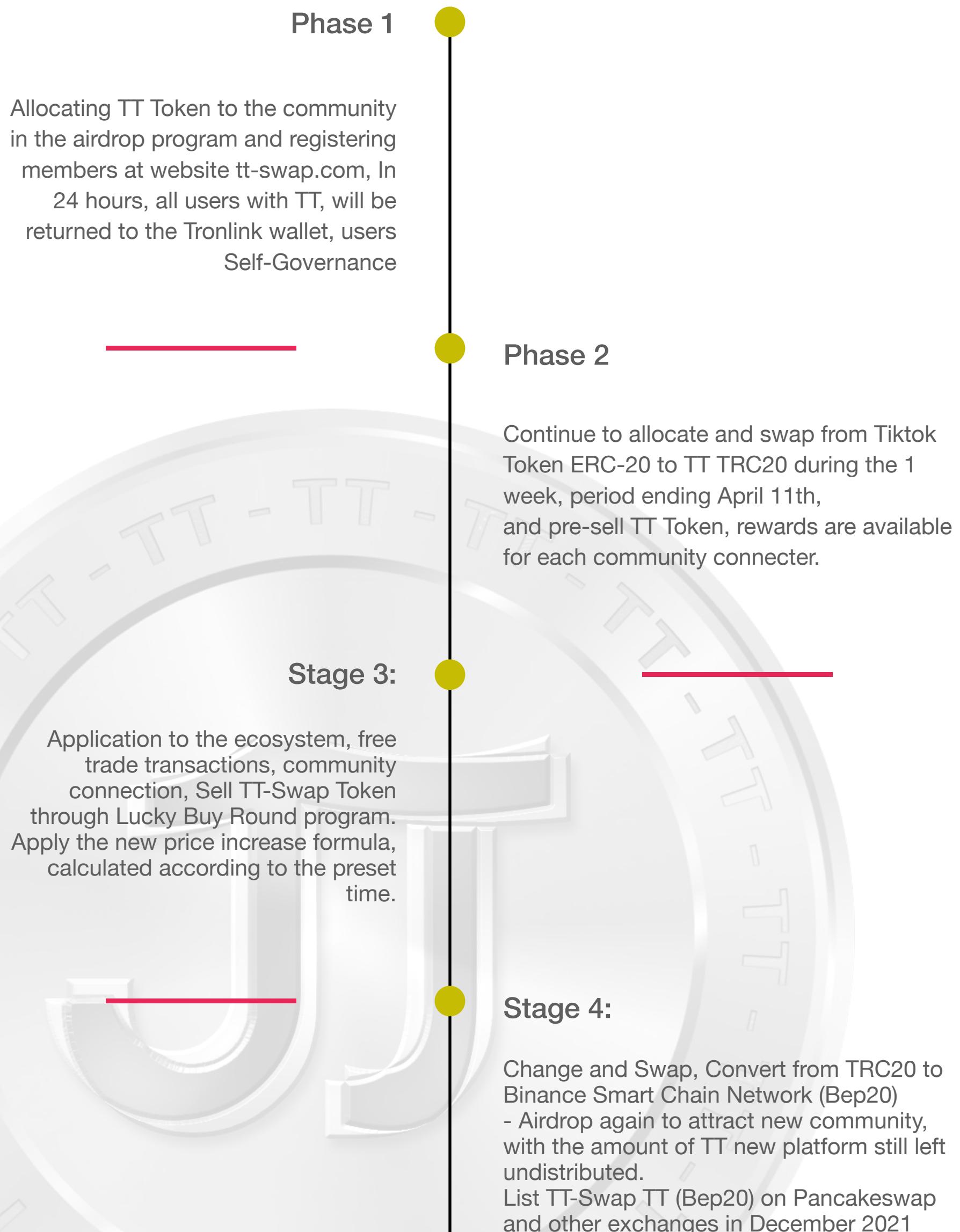
Level 1 = 10% TRX

Level 2 = 5% TRX

Level 3 = 3% TRX



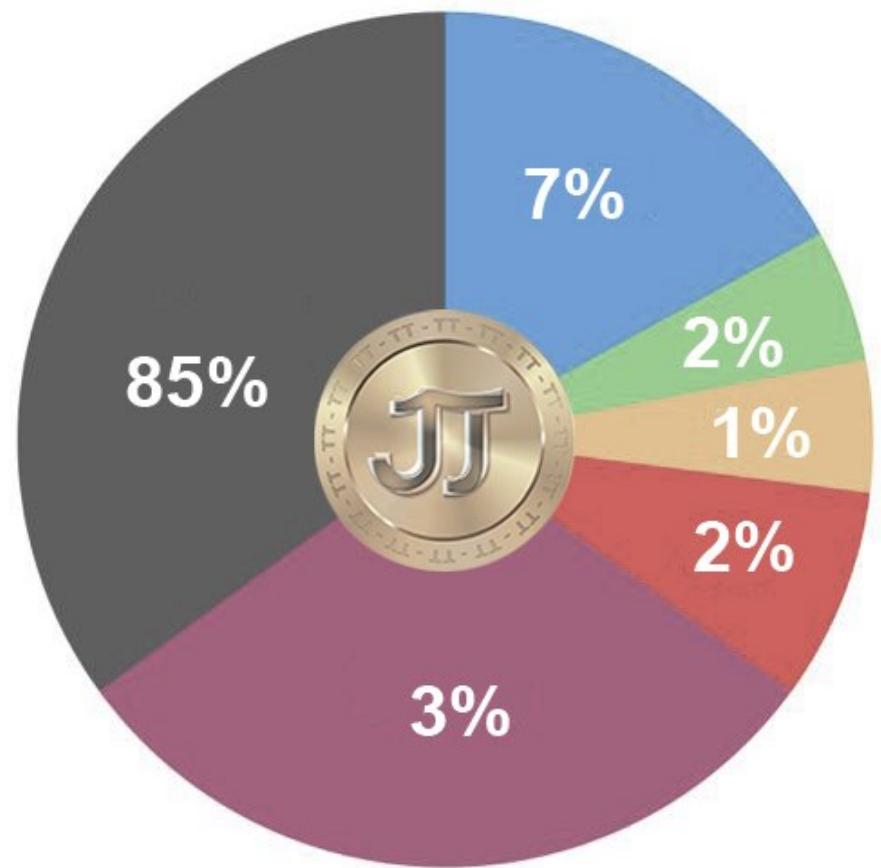
## 8/ Roadmap



## 9/ Token Distributed Detail

### JJ TT-Swap (TT)

◆ SALE	7%
◆ MARKETING	2%
◆ PARTNERS	1%
◆ DEVELOPERS	2%
◆ FUND RESERVE	3%
◆ BURNING TT	85%



## **10/ Community**

This community will be based on the existing Tiktok community. Hundreds of millions of players, and billions of people, have downloaded the app. We understand the importance of elements in social media, so there are quite a few Big update in the works. Over the next year, the development team will roll out a number Improved system of creating accounts, list of friends and redeeming gifts, circulation of TT strongly. Our goal is to foster a sense of community where users can come together to share ideas of interesting activities, cryptocurrencies or anything else they would like to discuss. Developers will have direct access to interact with these social channels to offer services, support and even community participation events such as promotions campaign or gift.

### **Payment service**

Developers can integrate TikTok TT's platform payment services into their DApps. The purpose of This function is to make any payment as easy as possible, comparable with simplicity Make in-app purchases on the iOS and Android app stores. Users can pay use cryptocurrencies in their wallet or from their credit, debit or bank card account. Users will be able to easily withdraw their cryptocurrencies to their personal wallets at any time they want.

### **10.1 Wallet**

The team will work closely with the TRONLink team to provide a premium wallet, the services will be optimized and extended to the audience of the TT platform. In the future, TT will expand a new platform that is the platform system of Binance Smart Chain, (Bep20) Access to the new platform so that anyone can participate regardless of cryptocurrency on Metamask wallet , and the original deal on Pancakeswap.

### **10.2 Regulatory Compliance**

TT will fully comply with the rules of the game for various jurisdictions. The group is also planning to work with regulators around the world to obtain all the necessary documents and permits. TT has worked hard to ensure compliance with our interactive case platform.

All of our licenses will be fully updated, expected to be received before the official launch of the Paid Games and Apps project in 2022.

## 11 / Team

Together, the team behind TT has decades of experience in social networking, gaming, and blockchain across many other industries.

We are united by our passion for blockchain technology and it can revolutionize the inclusion of blockchain in commerce of services, online shopping and gift exchange replacing conventional reward points.

Like many others, Bitcoin's dramatic rise in 2017 caught our attention, and learning about the Technology's potential completely captured our imaginations.

With members from teams around the world, TT-Swap is truly a global project, we are creative pieces of the official TT.

2 out of 7 team members come from game management and social media backgrounds, while the remaining 5 are blockchain veterans, entering the industry as Developers alongside operations and business development managers.

Several teams Other members with more than 10 years of experience in the affiliate marketing industry have joined hands to develop and we are pleased to announce that these same people have contributed to design the direction of the long-term plan with TT - Swap.

The TT Crypto team is incredibly grateful for the opportunity to create this product for millions of blockchain enthusiasts around the globe. We are confident that we will give the best, fairest chance for our users to succeed as expected and will continue to add top talent to ensure the highest growth.

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## 12 / TT-Swap (TT) TRC-20 . Token

The cryptocurrency market has surpassed one trillion US dollars and is currently on the strongest track.

tt-swap.com is the crystallization of social network, the world's largest cryptocurrency-based idea, a new upgrade, meeting payment transaction services in the ecosystem. Global eco, gift replacement and bonus points for millions of users.

TT-Swap will bring the community closer to crypto and become richer than ever, Handing over the power to the community to own, The rest will be burned, expected to burn Tokens up to 90%.

Promising to bring a bustling environment, good economy, helping many people become rich thanks to technology, generation 4.0. Link, connect consumers across all borderless countries. With a mission to bring happiness to everyone.  
TT is written on the TRON platform, the TRC-20 algorithm is trusted by the crypto world.

**Total supply: 157,000,000,000**

<https://tronscan.org/#/token20/TPfTB22ny1cgvuJkaBF6V4pUVSD2Mv8oZX>

By the end of November 2021, TT-Swap (TT) Tokens will be redeemed to Binance Smart Chain's Bep20 platform. It is expected to reduce the number of tokens in circulation to only 10%. **Total Supply: 15,7000,000,000**

## 13/ What is TRON ?

TRON is a powerful blockchain ecosystem designed and developed by blockchain developers around the world, following the philosophy of "Decentralization of the Web". There are many types of products participating in the TRON ecosystem, including public chains, wallet applications, decentralized applications (DAPP), and more. These products are closely related to each other and together, this supports the stability of the entire ecosystem. Fast transactions, low fees, global community

## 13.1 TRON Public Chain

### 13.1.1 Overview

TRON public chain is a decentralized blockchain network implemented based on TRON protocol, performs as the core of TRON ecosystem, launched on Jun 25th 2018. Many things can be done through TRON public chain, including token assets issuing, DAPP deployment and running, stake and vote for gains, assets transferring, Etc.

TRON public chain is one of the most secure public chain systems at present. The reason it is outstanding is that the blockchain runs in a decentralized network environment, in which creation and storage of the data do not rely on specific individuals or organizations, and the data is ensured to be never changed by cryptography.

TRON public chain has better operational efficiency and stability than most public chains due to a well-designed architecture and code.

### 13.1.2 Present

TRON ecosystem has set itself a 10-year roadmap in the original [TRON whitepaper](#):

- Exudos 2017.8~2018.12
- Odyssey 2019.1~2020.6
- Great Voyage 2020.7~2021.7
- Apollo 2021.8~2023.3
- Star Trek 2023.4~2025.9
- Eternity 2025.4~2027.9

The design for the top-level of the system and protocols of the public chain was made in Exudos.

Odyssey is an essential stage of the large-scale practical development of the TRON public chain. There are some key versions, including:

- TRON public chain (test net version) [Odyssey-v1.0](#)
- TRON public chain (main net version) [Odyssey-v2.0](#)
- TRON Virtual Machine(TVM), making Ethereum smart contracts fully compatible [Odyssey-v3.0](#)
- In-memory database for accessing TRON public data [Odyssey-v3.2](#)
- Supporting multi-signature and account authority management [Odyssey-v3.5](#)
- Adding RocksDB as a new underlying data engine [Odyssey-v3.5.1](#)
- New decentralized incentive mechanism [Odyssey-v3.6.5](#)
- New consensus mechanism TPos[Great Voyage-v4.0](#)

The development of TRON public chain has reached the stage of the Great Voyage.

## 14/ What is Binance Smart chain ? (Bep20)

Cheap transaction fees

The high performance network can generate a block every 3 seconds

The cross-chain DeFi mechanism helps to increase DeFi interoperability, support funding and launch multiple projects.

Binance Smart Chain is an independent blockchain that provides security and safety to all users and developers.

Binance Smart Chain's two-blockchain interoperability will enable cross-chain communication and scaling for high-performance dApps that expect a fast and smooth user experience.

A rich and growing digital asset ecosystem powered by Binance DEX, the leading decentralized exchange

A growing ecosystem with millions of users on Binance.com and Binance DEX

A network of major crypto projects has partnered with BSC

The Binance smart chain posted online on the mainnet appeared first on AMBCrypto.



### What is Bep20 ?

Bep20 is a standard of tokens running on Binance Smart Chain BSC. You can think of it as a standard for tokens. It defines how they are used, who can use them, and other rules for using them. Bep20 is representative of tokens on Binance Smart Chain, it is similar to Trc20 of TRON network or Erc20 of tokens running on Ethereum platform.

You can check information about transactions, addresses, tokens, prices and other activities related to Binance Smart Chain through BSCScan (<https://bscscan.com/>)

The address of the Bep20 wallet and the Erc20 wallet has the same form:

## 15/ OFFICIAL SOCIAL MEDIA

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### Telegram:

Channel: <https://t.me/TTCryptochannel>

Community Group: <https://t.me/TTSwapToken>

Facebook: <https://www.facebook.com/ttswap>

Twitter: <https://twitter.com/SwapTT>

Hahalolo: <https://www.hahalolo.com/p/613101f899c85c4f2a4f8010>

Youtube: [https://www.youtube.com/channel/UCIjhUUtnlY6\\_qhsMwy8CGTA](https://www.youtube.com/channel/UCIjhUUtnlY6_qhsMwy8CGTA)

Website: <https://tt-swap.com>



**TT-Swap**