Mate-Network
Whitepaper

Mate-Network-MT wallet helps you usher in a new era of digital assets

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Introduction

Welcome to the world of Web3Mate-Network-MT Wallet and MATE (MT) Token! Web3Mate-Network-MT is an advanced digital asset management platform that provides users with a secure, convenient, and feature-rich cryptocurrency experience. Through Mate-Network-MT, users can easily store, trade, invest, collect, and earn MATE tokens. MATE (MT) is a decentralized cryptocurrency built on the TRON blockchain, designed for fast, secure, and low-cost transactions.

MT is designed for scalability and durability, offering a globally accessible DeFi wallet. With numerous innovative features and performance far surpassing early decentralized exchanges, MT enables its users and community to seamlessly enter a new era of social, economic, and digital interactions.

The digital asset market is undergoing rapid development, but it also faces challenges in terms of security, liquidity, and user-friendliness. Mate-Network-MT addresses these issues with its powerful features and user-friendly interface, providing innovative solutions. Users can manage their entire cryptocurrency portfolio from storage to investment on a single platform and earn more MT tokens by participating in our ecosystem.

Our team comprises blockchain technology experts, seasoned professionals from the financial industry, and marketing specialists dedicated to promoting the adoption and application of cryptocurrency. We have established partnerships with numerous renowned institutions and enterprises, providing robust support for the project's development.

In this white paper, we will detail the technical architecture, economic model, development roadmap, and team background of the Mate-Network-MT Wallet and MATE token. We believe that as the project progresses, MATE and Mate-Network-MT will become significant players in the cryptocurrency field, offering users an unprecedented digital asset management experience.

Project Background and Market Analysis

Current State of the Digital Asset Market

In recent years, the digital asset market has experienced explosive growth. According to CoinMarketCap, as of the end of 2023, the global cryptocurrency market capitalization has exceeded $2 trillion. Advances in blockchain technology and the expansion of application scenarios have attracted an increasing number of institutional and individual investors to this market. Cryptocurrencies are not only speculative tools but are also gradually becoming the foundation for innovative applications such as decentralized finance (DeFi), non-fungible tokens (NFTs), and decentralized autonomous organizations (DAOs).

With the proliferation of digital assets, more and more users worldwide are beginning to accept and use cryptocurrencies for investment and trading, especially in regions with economic instability and severe currency devaluation. The entry of institutional investors, such as large financial institutions and corporations, has also driven the market's maturation and regulatory development, further enhancing the market's recognition and confidence in digital assets.

The development of large proprietary platforms (e.g., Facebook) has enabled hundreds of millions of users to gather, interact, share content, and play games. Their network effects have helped cultivate large online communities and gaming companies. These platforms are controlled by centralized organizations that manage network rules and content flow while generating substantial revenue from the communities and content creators that drive

traffic to the platform. Mate-Network-MT aims to build a network where content creators own and capture the full value of their contributions.

The current team began researching Mate-Network-MT in 2022. At that time, the adoption of crypto assets was still in its infancy due to the lack of most blockchain-based infrastructure needed for consumer-oriented platforms. While blockchain infrastructures, led by Ethereum, are now more prevalent, the lack of effective methods for quickly processing micropayments limits the throughput of network transactions. The maturity of cryptocurrencies as a global, instant, and low-cost payment method is still evolving. Payment transactions need to be conducted off-chain to achieve the short-to-medium-term scalability of blockchain payment networks. Solutions are on the horizon to realize a fast, low-cost global payment system.

Market Problems and Pain Points

Despite the rapid growth of the digital asset market, it still faces numerous challenges and pain points:

» 1. Security: Frequent hacking and fraud incidents pose significant threats to user asset security. Many exchanges and wallets have inadequate security measures, leading to a high risk of asset theft.

» 2. Liquidity: Many small tokens suffer from poor liquidity, making it difficult for users to trade on mainstream exchanges. Low liquidity results in extreme price volatility, affecting user trading experiences and asset values.

» 3. Complexity: Existing cryptocurrency wallets and trading platforms are complex to operate, making them difficult for novice users to adopt. Users need to possess a certain level of technical knowledge to manage and trade digital assets safely and effectively.

» 4. Fees: Transaction fees are high, especially on major blockchains like Ethereum, where users must pay substantial Gas fees. These costs raise the barrier and cost of entry for small-scale traders and new users.

» 5. Regulatory Uncertainty: Varied regulatory policies across different countries and regions increase the risk of digital asset investment. Regulatory uncertainty poses legal risks and policy change threats for users engaging in cross-border transactions and investments.

» 6. User Education: Most users lack an understanding of digital assets and blockchain technology, making it difficult to use related tools and platforms correctly. Insufficient educational resources deter many potential users from entering the digital asset market.

Despite these pain points, the digital asset market's immense growth potential and wide-ranging application prospects cannot be overlooked. Addressing these issues will help drive further market development and broader user participation. MATE and the Mate-Network-MT Wallet are designed to solve these pain points by providing a secure, efficient, and user-friendly digital asset management platform, thereby promoting the healthy development of the global digital asset market.

Mate-Network-MT Consensus

We divide the voting phase into pre-vote and pre-commit stages. A vote can be cast for a specific block or Nil. We refer to the sum of more than 2/3 of pre-votes for a single block in the same round as a Polka, and the sum of more than 2/3 of pre-commits for a single block in the same round as a Commit. If more than 2/3 of pre-commits for Nil are reached in the same round, they move to the next round.

Note that the strict determinism in the protocol implies a weaker synchrony assumption because the default proposal must be removed and skipped. Therefore, validators will wait for a period before pre-voting on MT (i.e., Mate-Network-MT, timeout proposal), and the value of Mate-Network-MT will increase with each round. The remaining process of each round is fully synchronous, and only when validators receive more than 2/3 of network votes will they proceed to the next step. In practice, this would require a highly capable adversary to indefinitely hinder a weaker synchrony assumption (leading to a failure to commit a block), and using each validator's Mate-Network-MT random value adds further difficulty.

Another set of constraints, or locking rules, ensures that only one block is committed at each height, and any malicious attempt to commit more than one block at a specified height will be identified. First, each block's pre-commit must be valid and submitted in the form of a Polka. If a validator has pre-committed a block in round R_1, they are considered locked on that block, and the Polka used for verifying new pre-commit actions in round R_2 must enter the R_polka round, where R_1 < R_polka <= R_2. Second, validators must propose and/or pre-vote the block they are locked on. These two steps together ensure that validators do not pre-commit without sufficient evidence of legitimacy and guarantee that validators who have completed pre-commit cannot contribute proof for other pre-commits. This not only ensures security but also guarantees the liveness of the consensus algorithm.

Market Opportunities

Despite the numerous pain points in the digital asset market, its potential for development and opportunities are equally vast:

01 Decentralized Finance (DeFi)：The rapid growth of DeFi has provided new application scenarios and value growth points for digital assets. According to DappRadar, the total value locked (TVL) in the DeFi market exceeded $100 billion in 2023. DeFi applications, such as lending, staking, and liquidity mining, offer users more opportunities for returns.

02 Global Adoption：With the widespread adoption of the internet and smartphones, more people worldwide are beginning to interact with and use digital assets, particularly in developing countries with economic instability and severe currency devaluation. Digital assets provide these regions' users with new means of value storage and transaction.

03 Institutional Participation：Large financial institutions and corporations are gradually entering the digital asset market, driving its maturation and regulatory development. The involvement of these institutions enhances market stability and confidence, attracting more investors.

04 Innovative Applications：Emerging applications such as NFTs and DAOs continuously bring new scenarios and business models to the digital asset space. These innovative applications not only attract a large number of users but also introduce new growth points to the market.

Mate-Network-MT wallet helps you usher in a new era of digital assets

Advantages of the Mate-Network-MT Wallet and Solutions to Market Problems

The Mate-Network-MT Wallet aims to address current market pain points and seize opportunities through technological innovation and improved user experience. Its main advantages and solutions include:

1.Security: Mate-Network-MT employs multi-signature, cold wallet management, and XMSS signature schemes to provide a highly secure digital signature mechanism, ensuring user asset safety. The platform's compliance and fund security are guaranteed through the US FINCEN MSB license and SEC regulation.

2. Liquidity: By deeply collaborating with multiple exchanges, Mate-Network-MT enhances the liquidity of smaller tokens, offering a wider range of trading pairs and lower transaction fees, thus improving the user trading experience.

3. User-Friendliness: Mate-Network-MT offers simple operation processes and a user-friendly interface, reducing the usage barrier for novice users. Through user education and support, it helps users better understand and utilize digital asset tools.

4. Fee Optimization: Leveraging the high performance of the TRON blockchain, Mate-Network-MT provides low-fee transaction services, reducing the transaction cost burden for users. The optimized transaction process and fee structure make small transactions equally attractive.
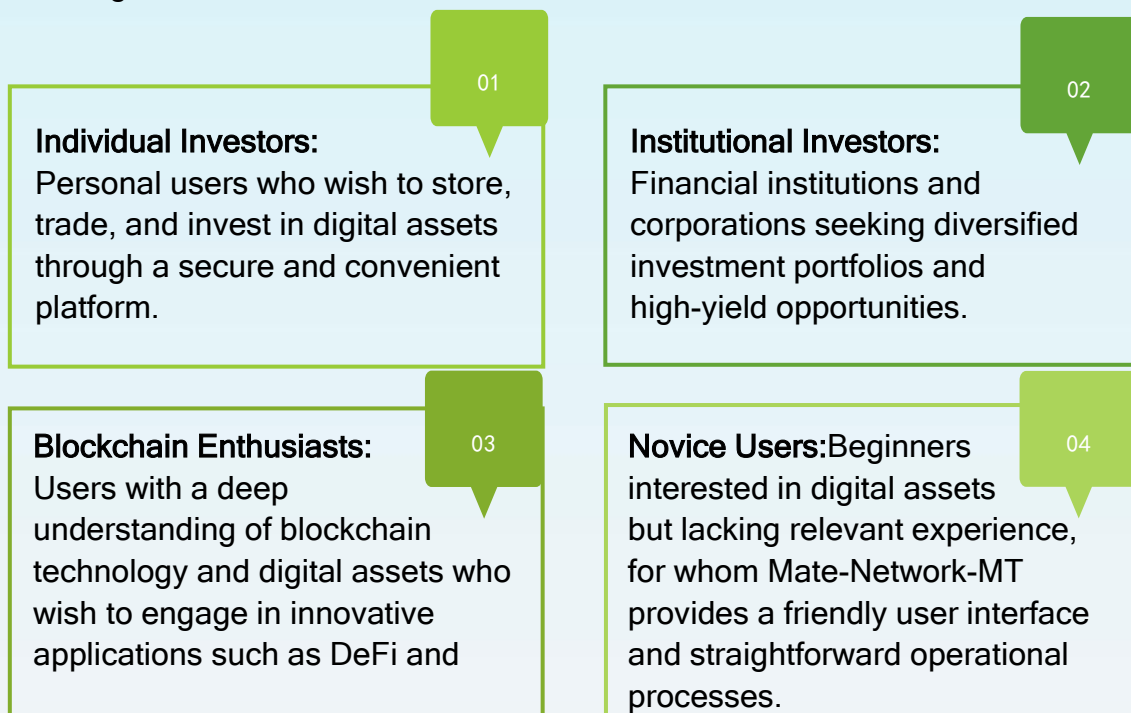
5. Scalable Solution: The ideal solution allows multiple parallel blockchains

to interoperate while maintaining security features. Although achieving this with proof-of-work is challenging, it is not impossible. For example, merging DeFi can allow the main chain to be reused on sub-chains, but each node must sequentially verify transactions. If the majority of hash power on the main chain does not actively merge mine the sub-chains, they are vulnerable to attacks. An academic review of alternative blockchain network architectures will be presented in supplementary materials.

6. **Inter-Blockchain Communication (IBC):** Mate-Network-MT centers

and spaces can communicate through the IBC protocol, which acts like a virtual user datagram protocol (UDP) or transmission control protocol (TCP) for blockchains. Tokens can be transferred securely and quickly from one space to another without needing exchange liquidity between them. Instead, all token transfers within a space are recorded by the Mate-Network-MT center, which maintains the total token balance held by each space. This center isolates each space from other faulty spaces. Since everyone connects new spaces to the Mate-Network-MT center, future spaces can also be compatible with new blockchain technologies.

Target Users

The Mate-Network-MT Wallet and MATE (MT) tokens primarily target the following users:

01

Individual Investors:
Personal users who wish to store, trade, and invest in digital assets through a secure and convenient platform.

02

Institutional Investors:
Financial institutions and corporations seeking diversified investment portfolios and high-yield opportunities.

03

Blockchain Enthusiasts:
Users with a deep understanding of blockchain technology and digital assets who wish to engage in innovative applications such as DeFi and

04

Novice Users: Beginners interested in digital assets but lacking relevant experience, for whom Mate-Network-MT provides a friendly user interface and straightforward operational processes.

Competitive Analysis

The digital asset market is increasingly competitive, with major competitors including:

» **1. Traditional Cryptocurrency Wallets:** Wallets like MetaMask and Trust Wallet, which have a broad user base and high market recognition.

» **2. Exchange-Integrated Wallets:** Integrated wallet services from trading platforms like Binance and Coinbase, which leverage their large user bases and brand influence to capture significant market share.

» **3. Emerging DeFi Wallets:** Wallets such as Argent and Zerion, which focus on DeFi applications and offer a range of innovative features.

Compared to competitors, the Mate-Network-MT Wallet offers unique advantages in the following areas:

🗨 **1. Security:** Advanced security mechanisms such as multi-signature and cold wallet management ensure the safety of user assets.

🗨 **2. User Experience:** A user-friendly interface and simple operation processes lower the barrier to entry for novice users.

🗨 **3. Multi-Function Integration:** Comprehensive digital asset management services that include storage, trading, investment, collection, and earning cryptocurrency.

🗨 **4. High Performance:** Built on the high-performance TRON blockchain, providing fast transaction speeds and low fees to enhance user experience.

🗨 **5. Community Engagement:** An open and active community space where users can freely express their opinions.

The global digital asset market is undergoing unprecedented transformation, and MATE and Mate-Network-MT are poised to meet this trend with the best solutions. We have not only identified current market pain points but also addressed them through technological innovation and improved user experience, providing a secure, efficient, and convenient digital asset management platform for global users. In the face of fierce market competition, Mate-Network-MT's strengths in security, user experience, multi-function integration, and high performance give it a robust competitive edge. We firmly believe that as the project progresses and the market further expands, MATE and Mate-Network-MT will become indispensable players in the digital asset field, leading the industry towards a brighter future.

Technical Architecture

System Architecture

The technical architecture of the Mate-Network-MT Wallet is designed to provide a secure, efficient, and user-friendly digital asset management platform. The system consists of a front-end user interface, back-end services, and an interaction layer with the TRON blockchain. The front-end interface provides an intuitive operation experience, the back-end services handle business logic and data interaction with the blockchain, and the TRON blockchain ensures secure asset management and efficient transaction processing for users.

Smart Contract Design

The smart contract design of the Mate-Network-MT Wallet is crucial for balancing security and efficiency, covering several key aspects to ensure user asset safety and platform stability:

1. Asset Management Contracts

The asset management contracts are the core components of the Mate-Network-MT Wallet, responsible for securely storing and managing users' digital assets. Key functionalities include:

- **Asset Storage and Management:** Securely storing users' digital assets and providing management functionalities, including asset inquiry, transfers, deposits, and withdrawals.

- **Cold and Hot Wallet Management:** Ensuring asset security in different environments through a cold and hot wallet management mechanism. Most assets are stored in offline cold wallets, only transferring to online hot wallets when necessary for transactions, effectively reducing the risk of assets being hacked.

2. Transaction Contracts

Transaction contracts handle various user transaction requests, ensuring the security, reliability, and efficiency of transactions. Key functionalities include:

- **Transaction Processing:** Handling user requests for buying, selling, and exchanging assets, ensuring a secure and smooth transaction process.

- **Multi-Signature Mechanism:** Enhancing transaction security through multi-signature technology, requiring multiple confirmations for any significant asset operations to prevent single points of failure and malicious activities.

3. Governance Contracts

Governance contracts allow Mate-Network-MT community members to participate in platform governance and decision-making processes, ensuring platform transparency and user rights. Key functionalities include:

- **Community Participation:** Supporting community members in proposing, voting, and making decisions on issues such as parameter adjustments and new feature promotions.
- **Transparency and Fairness:** Ensuring the transparency and fairness of the governance process, making sure all decisions align with the community's interests and the platform's long-term development goals.

These smart contract designs not only meet the demand for secure and efficient digital asset management but also ensure the stable operation of the Mate-Network-MT Wallet on the TRON blockchain and maintain user trust. Each contract undergoes rigorous security audits and testing to ensure code quality and functional integrity.

Security Mechanisms

Mate-Network-MT wallet ensures the security of user assets and platform operation through multiple security mechanisms:

1. Multi-Signature

Mate-Network-MT employs a multi-signature (Multi-Signature) mechanism to enhance the security of asset operations. Multi-signature requires multiple parties to authorize and confirm asset management and other critical operations, ensuring reliable execution and preventing single points of failure and malicious actions. This mechanism not only increases the security of user assets but also strengthens the overall protection capability of the platform.

2. Cold Wallet Management

Mate-Network-MT stores most user assets in offline cold wallets, isolated from the network, effectively reducing the risk of assets being hacked. Cold wallets serve as secure storage mediums, only transferring assets to online hot wallets when necessary for daily transactions, thereby ensuring asset security and user convenience. Strict security control measures ensure the safety and reliability of hot wallet operations.

3. Smart Contract Audits

All smart contracts on Mate-Network-MT undergo rigorous security audits. The audit process includes comprehensive checks of code quality and vulnerabilities to ensure the stability and security of the contracts. The audit results are open and transparent, allowing users to review the audit reports at any time, increasing their trust in the platform's security. These measures not only meet the security requirements of technical implementation but also provide a reliable and secure digital asset management environment for users.

4. XMSS Signature Scheme Protection

The XMSS (Extended Merkle Signature Scheme) signature scheme is one of the key technologies Mate-Network-MT wallet uses to ensure the security of user assets. Approved by NIST (National Institute of Standards and Technology), it is a post-quantum secure digital signature scheme with the following key features and advantages: Mate-Network-MT also utilizes 256-bit encryption and multi-signature to protect assets, ensuring funds are always secure and accessible only with explicit user approval. 256-bit encryption is an algorithm that uses a 256-bit key length to encrypt and decrypt data, which is industry-standard and highly secure; it is estimated that it would take immense computational power and billions of years to crack the encryption by brute force. The multi-signature DEX wallet requires multiple parties to approve before any funds can be transferred or used. This provides an additional layer of security against unauthorized access to funds and reduces the risk of theft or fraud.

» Post-Quantum Security

The XMSS signature scheme is designed to withstand potential future quantum computing attacks. Traditional algorithms such as RSA and DSA may become insecure in the face of quantum computers, whereas Mate-Network-MT employs a structure based on hash functions and tree signatures to provide robust security guarantees.

» OWASP Compliance:

Mate-Network-MT adheres to the Open Web Application Security Project (OWASP) compliance guidelines to prevent common web application vulnerabilities. OWASP is a non-profit organization offering free resources, tools, and guidance to help developers create more secure web applications. By following OWASP guidelines, developers can significantly reduce the risk of security threats such as Cross-Site Scripting (XSS), SQL Injection, and Session Hijacking. OWASP compliance is a crucial aspect of web application security, and Mate-Network-MT ensures its platform is protected against various threats and vulnerabilities by adhering to these standards.

» Tree Structure:

XMSS utilizes a Merkle tree structure to manage and generate signatures. This structure effectively reduces the size and generation time of signatures while ensuring their security and verifiability.

» Signature Chains and Public Key Evolution:

XMSS allows for the generation of multiple signatures and updates the signature chain and public keys after each use, further enhancing security. This mechanism ensures that even if one signature is compromised, it does not affect the security of other signatures. Additionally, we have implemented Distributed Denial of Service (DDoS) protection to ensure our platform remains available and responsive even during high traffic or attacks. DDoS protection is a security measure that helps prevent websites and online services from being overwhelmed by large volumes of traffic from multiple sources. By using various techniques to identify and filter malicious traffic while allowing legitimate traffic through, Mate-Network-MT ensures the availability and reliability of its services.

» Broad Applicability:

The XMSS signature scheme is suitable for various high-security scenarios, including digital currency transactions, financial services, IoT device authentication, and more. In the Mate-Network-MT wallet, XMSS is used not only for digital signatures of user transactions but also for the secure storage and management of users' cryptographic keys.

By adopting the XMSS signature scheme, the Mate-Network-MT wallet ensures a high level of security and attack resistance for user transactions and asset operations, providing a trustworthy and secure digital asset management environment for users.

Preventing Long-Range Attacks

Assuming there is a robust and recoverable broadcast network set and a group of static validators, any blockchain fork can be detected, and the stake of the attacking validators will be forfeited. This innovation, first proposed by Christopher in 2014, addresses the "nothing at stake" problem in other proof-of-stake cryptocurrencies. However, since validator sets must be changeable, initially bonded validators might unbond over a long period, allowing them to create a new chain from the genesis block without any cost since they no longer have staked collateral. Such attacks are known as Long-Range Attacks (LRA), contrasting with short-range attacks where currently bonded validators cause forks and are penalized (assuming a consensus algorithm with fork accountability like Mate-Network-MT's Byzantine fault tolerance).

Fortunately, LRAs can be mitigated through the following methods:

» **1. Unbonding Period:** For validators unbonding to recover their staked collateral and stop earning consensus fees, their collateral must remain non-transferable for a certain period, possibly lasting weeks or months.

» **2. Light Client Security:** When a light client first connects to the network, it must verify the latest block hash using trusted sources, sometimes referred to as "weak subjectivity."

» **3. Frequent Validator Set Syncing:** The latest validator set must be frequently synced (at intervals equal to the unbonding period). This ensures that light clients are aware of changes in the validator set before unbonded validators can execute an LRA, thereby preventing them from deceiving clients by creating new chains from old keys.

Addressing LRA also requires thorough examination of the original security issues in proof-of-work models. In DEFI, light clients are assumed to sync from the genesis block to the current height, processing proof-of-work at each block

header. To address LRA, light clients must periodically track validator set changes, especially when coming online, using reliable sources to validate network information.

The above LRA prevention methods are well-suited for blockchain validators and all nodes driven by Mate-Network-MT, which are expected to remain connected to the network. Light clients that frequently sync with the network will also benefit from this approach. However, for light clients that do not wish to frequently connect to the internet or the blockchain network, an alternative solution exists. Non-validator token holders can stake their tokens over extended unbonding periods (longer than those for validators) to provide a secondary solution for verifying the validity of current and past block hashes. Even without contributing to blockchain consensus security, these nodes can offer significant security guarantees for light clients. If historical block hash queries were supported in Ethereum, anyone could stake their tokens using specific smart contracts and offer paid proof services, effectively creating a market for addressing LRA security for light clients.

The Mate-Network-MT wallet, with its advanced and robust technical architecture and comprehensive security mechanisms, ensures the security of user assets and platform stability. By adopting the XMSS post-quantum secure digital signature scheme, Mate-Network-MT guarantees the high security of every transaction and asset operation, effectively resisting potential future quantum computing attacks. Multi-signature technology and cold wallet management further enhance the security of asset operations, protecting user assets from any potential risks. Additionally, Mate-Network-MT has obtained the US FINCEN MSB license and is regulated by the SEC, complying with stringent Anti-Money Laundering (AML) and Know Your Customer (KYC) regulations to ensure the legality and safety of user funds. In summary, Mate-Network-MT, with its superior technical prowess and comprehensive security measures, provides a reliable digital asset management platform for users.

Token Economics

The MATE token is the core of the Web3 Mate-Network-MT wallet ecosystem, designed with a detailed economic model and value support system to ensure stability and long-term value. The following outlines the MATE token allocation, issuance plan, circulation plan, incentive mechanisms, and use cases.

Token Allocation

The total issuance of MATE tokens is 23 billion, with specific allocations as follows:

» **Airdrop:** 12 billion MATE (52.17% of the total supply)

» **Team Seed Round:** 400 million MATE (1.74% of the total supply)

» **Public Sale:** 300 million MATE (1.30% of the total supply)

» **Reserves:** 2.8 billion MATE (12.17% of the total supply)

» **Exchange Liquidity Transactions:** 4.1 billion MATE (17.83% of the total supply)

This allocation scheme aims to ensure wide distribution of the tokens, promote community participation, and reserve sufficient funds and liquidity for future development and operations.

- Airdrop 52.17%
- Team & Seed Round 1.74%
- Public Sale 1.3%
- Reserve 12.17%
- Exchange Liquidity Trading 17.83%
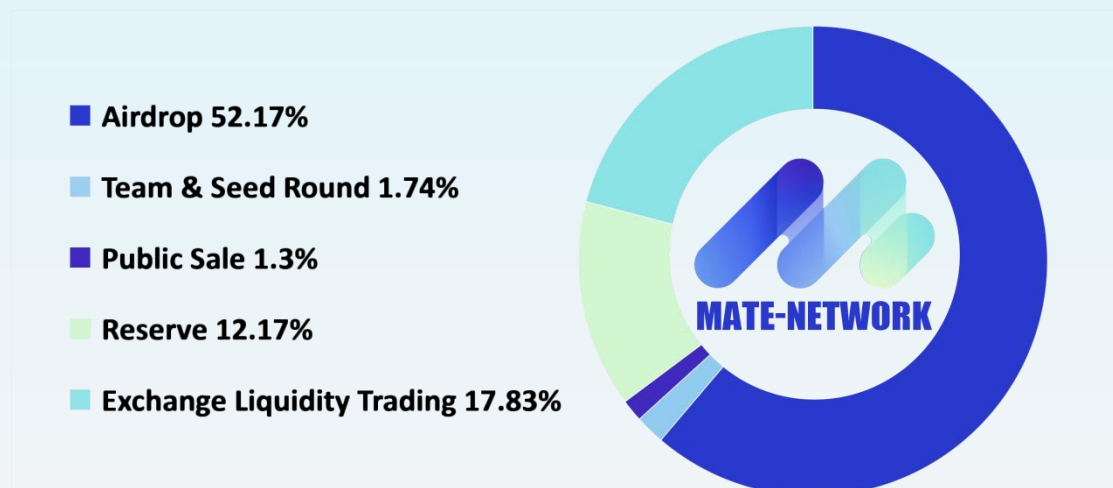
Issuance Plan

The issuance plan for MATE tokens is as follows:

>> **Airdrop:** The airdrop will be conducted in the early stages of the project to attract early users and community members. The airdrop will be phased to ensure broad coverage of the target user group.

>> **Team Seed Round:** Tokens allocated to the team seed round will be released in stages to incentivize long-term commitment and contributions from team members.

>> **Public Sale:** The public sale will be conducted in multiple stages to ensure fair and transparent distribution of tokens to market participants.

>> **Reserves:** The reserve tokens will be used for future project development, partnerships, and ecosystem building.

>> **Exchange Liquidity Transactions:** Tokens reserved for exchange liquidity will support the circulation and trading of tokens, ensuring market liquidity and price stability.

Circulation Plan

The circulation plan for MATE tokens aims to ensure stable market circulation and wide usage of the tokens. Specific measures include:

📲 **Liquidity Incentives:** Providing liquidity incentives on exchanges to encourage user participation in trading and token circulation.

📲 **Lock-up Mechanism:** Implementing a lock-up mechanism for some

tokens to prevent large-scale sell-offs in the short term, ensuring market stability.

📰 Gradual Release: Gradually releasing team and reserve tokens to avoid drastic market fluctuations in the short term.

Incentive Mechanisms

To encourage active participation from users and community members, MATE tokens are designed with a series of incentive mechanisms:

🏷 Holding Rewards: Users holding MATE tokens will receive regular rewards, encouraging long-term holding and supporting project development.

🏷 Trading Rewards: Users trading MATE tokens on exchanges will have the opportunity to earn trading rewards, promoting market activity.

🏷 Ecosystem Participation: Users participating in the Mate-Network-MT ecosystem (e.g., governance, development, community activities) will receive corresponding token rewards, driving the prosperity of the ecosystem.

Use Cases

MATE tokens have a wide range of use cases, covering various aspects of the Mate-Network-MT wallet ecosystem:

- **Trading:** Users can use MATE tokens for digital asset trading, paying transaction fees, and trading on decentralized exchanges (DEX).

- **Governance:** MATE token holders can participate in platform governance, voting on important matters and parameter adjustments, enhancing community involvement and decentralized governance.

- **Rewards:** Users can earn MATE token rewards by participating in ecosystem activities such as staking, providing liquidity, and development, incentivizing active participation in platform development.

- **Payments:** MATE tokens can be used to pay for various services and products within the ecosystem, including DApp access fees and in-game purchases, promoting practical application and value realization of the token.

- **Storage and Investment:** Users can securely store, trade, and invest in MATE tokens through the Web3 Mate-Network-MT wallet, enjoying one-stop digital asset management services.

- **NFT Minting and Storage:** Users can mint and store NFT collectibles, participating in the digital art and virtual asset markets.

- **Staking:** Users can stake MATE tokens, participate in liquidity mining, and other DeFi products, earning additional income.

- **Blockchain Games:** Blockchain-based gaming platforms, characterized by decentralization, virtual asset trading, and extensive application scenarios. As blockchain technology continues to evolve, MT blockchain games will play an increasingly important role in the gaming industry, providing better gaming experiences and more value creation opportunities for players.

Using the Web3 Mate-Network-MT wallet ensures your digital assets are secure and easily accessible. Users can store, trade, invest, and collect MATE tokens and effortlessly earn cryptocurrency. DeFi enables you to store, buy, sell, and release your MATE tokens anytime, anywhere. Users can mint and store NFT collectibles, stake, and access exclusive features (currently in development).

With numerous innovative features and performance far ahead of early decentralized trading, MATE tokens allow users and the community to

seamlessly enter a new era of social, economic, and digital interaction. The economic model of MATE tokens not only supports their value but also provides a stable and promising investment opportunity for users and investors.

Marketing

Proactive and guided marketing are essential elements for influencers

🔹 Market entry strategy

Let $MATE become a new influencer We understand the importance of market entry strategy, ensuring that there are enough MATE Corps and community members to ensure that more projects join and enter the mainnet, as well as specific dedicated activities that the marketing team will carry out to achieve the highest marketing coverage and global influence. users.

🔹 Influencer Marketing

We have identified hundreds of network ambassadors, KOLs and influencers to promote the project and expand its marketing reach.

🔹 Media Marketing

Secondly, MATE also cooperates with mainstream media for promotion, and its cooperative media and platforms are increasing.

🔹 Dedicated Marketing Budget : $15 million

Activity Expected Distribution：

Activity	Expected distribution	
CPM Advertising	25%	Yahoo.finance/Crypto.news/bitcoin.news/coinzilla/Bitcoininsider/etc
Banner Advertising	22%	Cointelegraph/Crypto.news/bitcoin.news/coinzilla/Bitcoininsider/etc
Events	12%	
Community	15%	Youtube/Twitter/Telegram/etc
CEX Listing Fees	28%	Undetermined (P2B/Coinbase/binance/Kucoin)
Others	13%	

Mate-Network-MT Wallet Roadmap

The development and promotion of the Mate-Network-MT wallet will follow a phased plan with key milestones to ensure project feasibility and long-term vision realization. The goal is to create a more open, efficient, and accessible global financial system.

2024 Roadmap

1. Form Core Team and Advisors

Assemble a core team of blockchain experts, developers, marketing specialists, and legal advisors to ensure a solid project foundation.

2. Blockchain Technology Investigation

Conduct an in-depth investigation of blockchain technology, evaluate applicable technical solutions and partners, ensuring the project adopts the most advanced and suitable technologies.

3. Write and Validate Whitepaper

Draft a detailed whitepaper elaborating on the project's vision, technical architecture, token economics, and development plans. The whitepaper will undergo multiple rounds of review and validation to ensure its accuracy and feasibility.

4. Launch Mate-Network-MT Wallet

Officially launch the Mate-Network-MT wallet, providing basic storage, trading, and investment features, allowing users to start experiencing the Mate-Network-MT ecosystem. Release the app, introduce MT TOKEN, and begin building the Mate-Network-MT user and investor community. Develop DeFi earnings to allow users to gain more during the issuance period, as outlined in the whitepaper's future vision.

5. Ongoing Protocol Development to Enhance Security and Functionality

Continuously improve and enhance the protocol's security and functionality, including introducing new security mechanisms, optimizing smart contracts, and enhancing user experience.

6. Token Listings and Promotional Activities

Promote MATE tokens on more exchanges to increase token liquidity and market coverage. Organize community events and marketing campaigns to attract more users and investors. Establish preliminary partnerships with major cryptocurrency exchanges like Binance and Huobi. Release significant updates to the blockchain protocol, enhancing scalability and security, and develop strategic plans with these exchanges.

MATE-NETWORK

WALLET HELPS YOU USHER IN
A NEW ERA OF DIGITAL ASSETS

7. Introduce Mate-Network-MT to DeFi

Expand the Mate-Network-MT wallet functionality into the DeFi field, introducing decentralized financial products and services such as lending, liquidity mining, and yield farming.

8. Technical Improvements to MATE Protocol

Conduct technical improvements to the MATE protocol, optimizing performance, increasing transaction speed, reducing transaction costs, and enhancing user experience.

9. User Feedback and Pain Point Identification

Collect and analyze user feedback to identify pain points and needs during usage, and develop improvement measures and product optimization plans.

10. Explore New Project Spaces

Explore new project spaces and cooperation opportunities to expand the application scenarios and market potential of the Mate-Network-MT ecosystem.

11. Transition from Ad Networks to DSP

Gradually transition existing ad networks to a blockchain-based programmatic advertising demand-side platform (DSP) to achieve automated and intelligent ad placement.

12. Develop Blockchain Programmatic DSP

Develop a blockchain-based programmatic advertising DSP to enhance transparency and efficiency in ad placement, providing better services for advertisers and publishers.

13. Preparation for Listing

The Mate-Network-MT team will fully advance the listing preparation for MATE tokens, actively engaging with top global exchanges such as Binance and OKEx. Through detailed market research and exchange evaluation, the team will ensure the selection of the most suitable platforms for MATE tokens. Simultaneously, they will strictly adhere to legal and regulatory requirements, hire professional legal advisors for compliance matters, and prepare and submit all necessary listing application materials. Through technical integration, security reviews, and market promotions, Mate-Network-MT is committed to providing a safe and reliable trading environment, laying a solid foundation for the successful listing of MATE tokens.
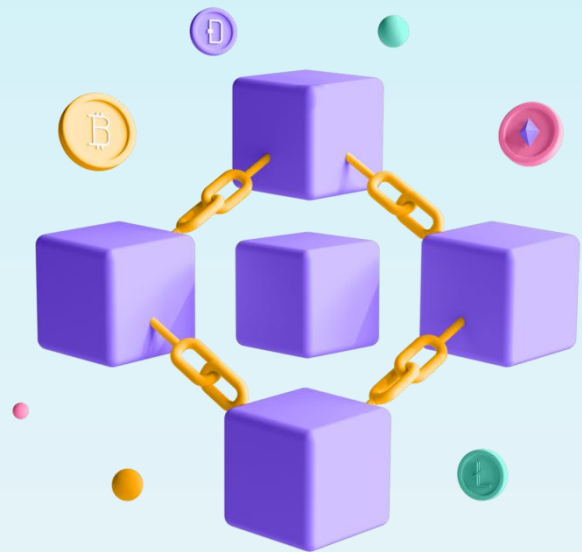
2025 Roadmap

①　Global Expansion:

Promote the application of Mate-Network-MT wallet and MATE tokens on a global scale, expanding market coverage and user base. Focus on expanding into Asian, European, and North American markets and establishing a global partnership network. MT TOKEN will be listed on major exchanges, and the MT TOKEN exchange functionality will be enabled. Mate-Network-MT plans to expand partnerships with leading companies in the DeFi field, introduce and implement new DeFi consensus mechanisms, and enhance network performance and scalability.

②　DeFi Quantitative Investment Tools:

Launch more excellent and continuously improving DeFi quantitative investment tools to help investors achieve higher returns in the crypto asset domain. Mate-Network-M uses peer-to-peer technology to facilitate instant payments to anyone anywhere in the world without central authorization. These transactions are managed and processed by the decentralized Mate-Network-M collective. If you want to help support the network, you can run the Mate-Network-M core (the most popular full node client) following the instructions provided.

③　Comprehensive DeFi Services:

Provide services for storing, purchasing, selling, and releasing MATE tokens anytime, anywhere. Support NFT minting and storage, staking, and other exclusive features (under development).

④　Ecosystem Development:

Continuously expand the Mate-Network-MT ecosystem by introducing more partners and developers to build a thriving decentralized financial ecosystem. Promote the development of games and virtual economies, where MT TOKEN can be used for transactions involving virtual goods and services, allowing players to use digital currency for buying and selling.

⑤　Technological Innovation:

Maintain technological leadership through continuous research, development, and innovation, launching more efficient and secure

blockchain applications and services. Mate-Network-MT will promote the issuance of MT TOKEN and establish a partner mechanism.

⑥ Community Building:

Strengthen interaction and cooperation with the community to build an active, collaborative user community, driving the continuous growth and success of the project.

⑦ Listing Planning:

In 2025, Mate-Network-MT will officially promote the listing of MATE tokens on top global exchanges. The team has reached initial cooperation intentions with leading exchanges such as Binance and OKEx and will further complete compliance documents and technical integration to ensure a smooth listing process. Through enhanced market promotion and community building, MATE tokens will gain higher market recognition and liquidity, providing a convenient trading experience for global users.

2026 Roadmap

A. Large-Scale Application:

Achieve large-scale application of the Mate-Network-MT wallet across various industries, including finance, supply chain, healthcare, and entertainment, promoting the widespread adoption and application of blockchain technology. Mate-Network-MT will refine all features, with MT tokens covering the globe.

B. Cross-Chain Interoperability:

Develop and implement cross-chain interoperability solutions to enable the Mate-Network-MT wallet to seamlessly interact with other blockchain platforms, enhancing asset liquidity and user flexibility.

C. Continuous Optimization and Updates:

Continuously optimize and update the Mate-Network-MT wallet's features and performance based on user feedback and market demand to maintain competitiveness.

D. Expansion of DeFi Product Line:

Expand the existing DeFi product line by introducing more innovative financial products and services, such as decentralized insurance, synthetic assets, and decentralized autonomous organizations (DAO).

E. Advanced Applications of Smart Contracts:

Develop advanced applications of smart contracts to support more complex financial protocols and business logic, enabling a wider range of decentralized application scenarios.

F. Social Responsibility and Sustainable Development:

Promote the application of blockchain technology in the fields of social responsibility and sustainable development, such as green energy, carbon emission trading, and public welfare projects, leveraging the social value of the technology. Mate-Network-MT will hold charity donation ceremonies and develop an online donation system. MT TOKEN can be used for donations to charitable organizations, allowing donors to support causes they care about while maintaining greater control over their funds.

Through these practical roadmaps and development plans, the Mate-Network-MT wallet will gradually realize its long-term vision, becoming a global leading digital asset management platform and ushering users into a new era of social, economic, and digital interaction.

Team Introduction

The Mate-Network-MT wallet is created by an experienced, passionate, and innovative team. Our core team members have worked in top global blockchain companies and possess extensive technical expertise, dedicated to providing users with the most secure and convenient digital asset management platform.

Core Team Members

Christopher

Position: Chief Technology Officer (CTO)

Background: Christopher has over 10 years of software development and blockchain technology experience. He has served as a senior software engineer and technical advisor at Google and the Ethereum Foundation. He is a blockchain expert proficient in smart contract development and security technologies.

Success Stories: During his time at Google, Christopher led the development of several key projects, driving technological innovation. His work at the Ethereum Foundation further solidified his leadership in smart contracts and blockchain security. Christopher's technical skills and leadership make him a pivotal force in the Mate-Network-MT wallet's technology team.

Michael Anderson

Position: Chief Executive Officer (CEO)

Background: Michael has over 12 years of experience in fintech and entrepreneurship. He worked as a senior analyst at Ripple Labs and founded a successful blockchain startup. He has deep knowledge and extensive connections in the blockchain and cryptocurrency fields.

Success Stories: At Ripple Labs, Michael was responsible for the analysis and management of several large-scale blockchain projects, helping the company achieve significant investments. Under his leadership, his startup grew rapidly, successfully securing multiple rounds of financing, and achieving notable success in the blockchain industry.

William Brown

Position: Chief Operating Officer (COO)

Background: William Brown has over 9 years of experience in corporate management and marketing. He has served as marketing director at Amazon and Coinbase, overseeing strategic planning and execution for global markets. He has demonstrated exceptional performance in brand building and user growth.

Success Stories: At Coinbase, William successfully led several global market promotion campaigns, significantly increasing the company's market share in multiple regions. His management and marketing expertise are crucial for the market promotion and operation of the Mate-Network-MT wallet.

John Smith

Position: Chief Financial Officer (CFO)

Background: John has over 10 years of financial management experience. He has worked as a senior financial advisor at JPMorgan Chase and Binance, responsible for financial planning and analysis. He has extensive experience in financial management risk control, and investment strategies.

Success Stories: At Binance, John successfully developed and implemented several financial strategies, helping the company achieve sustainable financial

growth. His financial expertise and management skills provide a solid foundation for the financial stability of the Mate-Network-MT wallet.

With this strong core team, the Mate-Network-MT wallet is committed to providing users with the most secure, convenient, and innovative digital asset management platform, driving the development and application of blockchain technology.

Other Team Members

The Mate-Network-MT team comprises professionals from around the world, including top programmers, traders, and financial experts. With extensive experience in cryptocurrency trading, fintech, and blockchain, the team maintains clarity of thought and keen insights in a rapidly changing market. In addition to the core team members introduced above, the Mate-Network-MT team includes the following specialists:

Security Expert:
With a strong background and extensive experience in cybersecurity, we focus on ensuring the safety of platform users' assets and the privacy of their data.

Product Manager:
Proficient in market demand analysis and product design, responsible for ensuring that the functionality and user experience of the Mate-Network-MT wallet meet the highest standards.

Operations Expert:
Possessing extensive experience in blockchain project operations, responsible for the daily management of the platform and the development and execution of operational strategies.

Customer Support Team:
Providing professional technical support and solutions for users, ensuring a smooth experience and high satisfaction on the Mate-Network-MT platform.

These team members possess exceptional skills and experience in their respective fields, working collaboratively to provide secure and reliable digital asset management and trading services for users worldwide.

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Partners

In 2023, MATE was born with the goal of enabling the global adoption of blockchain through a secure, cross-chain, upgradeable, and scalable blockchain network. MATE's fair access to decentralization and virtual currency allows every developer and asset holder on the chain to enjoy the benefits of this industry.

The MATE team is mostly comprised of members from Silicon Valley, including former employees of Facebook and BlackRock. The project is backed by an investment institution funded by Wall Street.

At the same time, the Mate-Network-MT wallet closely collaborates with the following top partners and investment institutions to promote innovation and development in blockchain technology, providing users with secure and efficient digital asset management solutions.

Blockchain Capital

Blockchain Capital is a leading global venture capital firm focused on blockchain technology, investing in and incubating projects with disruptive potential. As a strategic partner of the Mate-Network-MT wallet, Blockchain Capital not only provides us with capital support but also accelerates our progress in blockchain technology applications and market expansion through its rich industry resources and deep insights. Together, we explore innovative applications of blockchain in finance and digital asset management, aiming to provide a secure and convenient digital asset management experience for users worldwide.
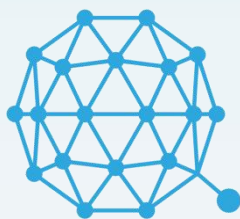
Qtum

Qtum is an open-source project that combines the strengths of Bitcoin and Ethereum, focusing on smart contract platforms for enterprise applications. As

a technical partner of the Mate-Network-MT wallet, Qtum provides us with advanced blockchain technology infrastructure and deep integration support. We leverage Qtum's technical advantages to continually optimize and expand the features of the Mate-Network-MT wallet, including secure multi-signature mechanisms, efficient transaction processing capabilities, and innovative smart contract applications. This close cooperation not only strengthens our technical capabilities but also provides users with more stable and reliable digital asset management services.

TRON

In the TRON network protocol, TRX holders are equal in resource allocation, including bandwidth and energy. TRON offers a decentralized virtual machine capable of executing programs using global public nodes. The network has zero transaction fees and can support approximately 2000 transactions per second (TPS). TRON adopts a proof-of-stake structure, which minimizes transaction costs and prevents malicious users from performing DDoS attacks. Similar to EOS, TRON features no transaction fees, high transaction volume, and high reliability, being considered a new generation blockchain system. However, some researchers believe that TRON is essentially a clone of Ethereum without fundamental differences. They also question the actual transaction speed on the TRON blockchain, suggesting that real performance is far below its theoretical capacity. Under TRON's consensus mechanism, limited computational performance nodes are chosen by users to maintain the network, ensuring overall TPS remains at an acceptable level and achieving high throughput. TRON's unique consensus mechanism allows its TPS to far exceed that of Bitcoin and Ethereum.

By closely collaborating with these authoritative partners, the Mate-Network-MT wallet is committed to promoting the widespread application of blockchain technology globally, offering truly secure and convenient digital asset management solutions for users and businesses, and sharing the infinite possibilities brought by blockchain technology. We look forward to collaborating with more industry leaders and innovators to create a new future for blockchain technology.

Mission and Vision of

Mate-Network-MT

Mate-Network-MT is building an encrypted economy network— a more fair, accessible, efficient, and transparent financial network system supported by cryptographic technology. Mate-Network-MT began with a radical idea: that anyone, anywhere should be able to easily access financial services. We provide a trustworthy and user-friendly network broadcast for accessing the broader financial network encrypted economy.

Building and Leveraging the Best Web3 Ecosystem on MATE, we strive for a more open, free, and fair future. This future will be achieved through decentralized infrastructure, global accessibility, decentralized governance, and mechanisms that incentivize innovation and shared value. We have the opportunity to shape a more democratic, just, and inclusive world where everyone can participate and benefit.

User-Oriented Approach

MATE offers a comprehensive suite of products designed with the end-user in mind. From wallet integration to DeFi trading platforms and open-source protocols for mobile applications, anyone can review and examine their functionalities and operations. This openness and transparency make the transaction process more trustworthy.

A Decentralized Trading Platform for

Everyone

MT is designed for scalability and longevity, providing a globally accessible DeFi wallet for the public. With numerous innovative features and performance

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far surpassing early decentralized exchanges, MT enables its users and community to seamlessly enter a new era of social, economic, and digital interaction.

Mate-Network-MT is not just a digital asset management platform; it represents a vision and mission for an entirely new financial ecosystem. By building an open, free, and fair Web3 ecosystem, MATE is dedicated to providing a secure, efficient, and transparent digital asset trading and management experience for users worldwide. We believe that through open-source technology and user-centric design, MATE can meet the needs of professional investors while offering easy-to-use tools and platforms for beginners, allowing everyone to participate in the development of the encrypted economy.

Mate-Network-MT is committed to increasing the freedom of the world economy. Join Mate-Network-MT and help shape the future financial ecosystem!
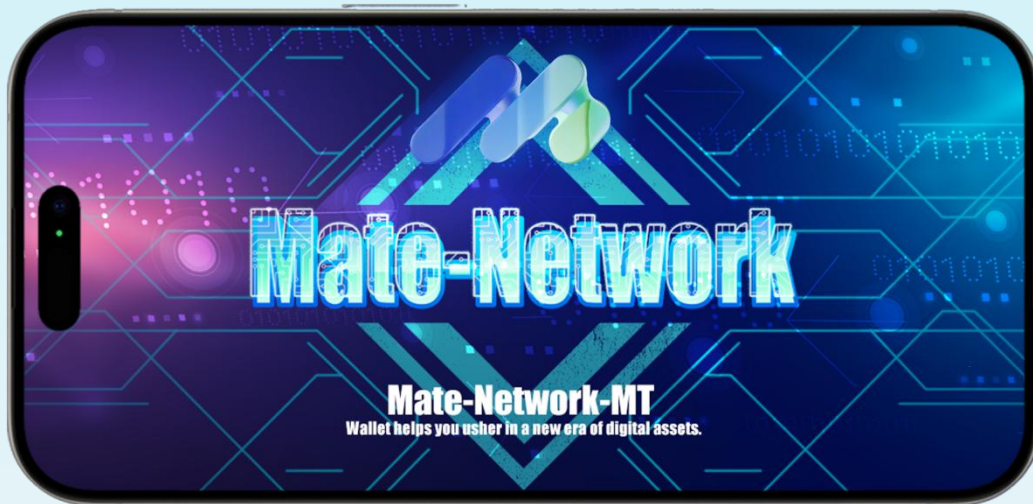
Legal and Compliance

Mate-Network-MT Wallet is committed to adhering to strict legal and compliance standards globally to protect users' rights and ensure the stable operation of the platform. Our legal and compliance section includes the following:

- This document is for reference only and does not constitute investment advice or solicitation by Mate-Network-MT ("MT"). Nothing in this document obliges you to participate in purchasing Mate-Network-MT. Nothing in this document should be construed as an invitation to engage in any transaction, including obtaining a copy of this document or sharing it with others.

- You understand and agree that if you can use USDT/TRX for DeFi, the actual time you receive MT tokens in your digital wallet may vary, and the Mate-Network-MT displayed in your wallet is the final result. Mate-Network-MT and its affiliates (collectively "MT") are not responsible for any losses caused by the aforementioned circumstances.

- Mate-Network-MT is not responsible for any loss resulting from sending or transferring MT to an incorrect address or wallet. You should provide the correct address of the digital wallet intended to receive MT. MT is not responsible for any loss caused by your own negligence or error, including but not limited to providing an incorrect digital wallet address or any other address for receiving MT, or transferring MT to an incorrect address or wallet.

- You understand and accept that MT is not responsible for any loss resulting from risks associated with your access to or use of Mate-Network-MT.

- The regulatory regime governing blockchain technology, blockchain assets, and blockchain asset trading is uncertain, and new regulations or policies may have a significant adverse impact on the development of Mate-Network-MT and the use of blockchain assets.

- Blockchain is an emerging and rapidly changing technology, and the use of blockchain networks and blockchain assets in retail and commercial markets remains relatively small. The slowing or stopping of blockchain network development or acceptance may adversely affect the value of any blockchain assets purchased through Mate-Network-MT.

- You acknowledge that the platform, systems, and technologies described in this document are under development. They may undergo significant changes. Although Mate-Network-MT intends to implement the features and specifications set forth in this document, Mate-Network-MT is under no obligation to implement any part of this document and may terminate the project for any reason or no reason at all, including lack of public interest, funding, commercial success, or the departure of key personnel.

- Blockchain may be susceptible to malicious attacks or exploitable vulnerabilities, which could lead to security breaches and the loss or theft of blockchain assets. Blockchain typically includes third-party software components, including open-source software. Third-party software components (including open-source software) may not be represented, maintained, or monitored by official organizations or institutions, and any such maintenance or monitoring may be insufficient to prevent exploitable vulnerabilities. Third parties may introduce weaknesses or bugs into the core infrastructure elements of the blockchain network, which could corrupt the software code and result in the loss or theft of blockchain assets. Blockchain may be targeted by malicious attacks that seek to identify and exploit weaknesses in the software. Such events could lead to a loss of trust in the security and operation of the blockchain, reduced user activity, and negative effects on the value of any blockchain assets you hold. These network attacks or other technical issues could impair the value of MT.

- There is significant regulatory uncertainty regarding how the SEC, CFTC, FinCEN, and other regulatory agencies will treat blockchain tokens. Additionally, changes in the U.S. presidential administration, including changes in the leadership of these and other regulatory agencies, add

further regulatory uncertainty. Public statements by the SEC, as well as recent enforcement actions taken by the SEC and state regulators, indicate that the SEC and state regulators intend to apply U.S. securities laws aggressively to digital assets, including tokens and stablecoins, and to other projects in the decentralized finance (DeFi) space. There is no guarantee how these regulatory bodies and others will treat blockchain assets in the future, but increased enforcement and regulation are expected. Additionally, legislation currently under consideration in the U.S. Congress, if enacted into law, could impact the issuance, sale, reporting, and taxation of digital assets.

- Buyers of Mate-Network-MT understand that Mate-Network-MT is subject to market conditions and its value may fluctuate. The viability of Mate-Network-MT depends on market acceptance. Buyers also understand that exchanging MT for other cryptocurrencies or fiat currencies may be difficult or impossible, depending on whether decentralized or centralized exchanges adopt MT. Buyers of Mate-Network-MT should understand that they may lose all the cryptocurrency and fiat currency used to purchase MT. You also acknowledge that the market price of MT may fluctuate significantly.

- To the maximum extent permitted by law, Mate-Network-MT, on behalf of itself and its affiliates, expressly disclaims and excludes all warranties, whether statutory, customary, regulatory, or implied by any other means.

- The information contained in this document is confidential and intended for the recipient only. It may not be used, published, or redistributed without the prior written consent of Mate-Network-MT. The views expressed in this document are made in good faith. Mate-Network-MT makes no representations or warranties of any kind, including but not limited to the accuracy or completeness of any information, facts, and/or opinions contained herein. Mate-Network-MT and its directors, employees, and agents assume no responsibility for any use or reliance on the opinions, estimates, forecasts, and findings expressed in this document.

Mate-Network

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