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TKM Global Ecosystem Token Verification **White Paper** +

**Building a self-evolving
digital financial organism**

2025+
Consensus
Co-build · Co-share

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Together, We Embark on a New Era
of Decentralized Finance

PREFACE

The Evolution of Millennial Ledgers and the Call of Digital Civilization

Every leap in human civilization has been accompanied by revolutionary breakthroughs in bookkeeping technology. From the clay tablets recording debts on the plains of Mesopotamia, to the sophisticated double-entry accounting of Venetian merchants during the Renaissance, and later to the highly centralized financial ledgers of the Industrial Age, ledgers have served not merely as tools for economic record-keeping, but as core carriers of power, trust, and production relationships.

Today, we stand at a historic turning point: physical-world assets, identities, and value are migrating to—and being mapped onto—the digital world at an unprecedented pace. Blockchain, as the “distributed digital ledger” of this era, carries significance far beyond that of a mere technological innovation. It represents a profound restructuring of production relationships, a paradigm shift in traditional trust mechanisms, and a foundational pillar upon which digital civilization can be built.

The mission of the TKM Global Ecosystem is to answer the call of this era. We are not merely issuing a digital token; we aim to construct a value circulation system that can autonomously operate, intelligently adjust, and coexist in deep synergy with the global real economy. This system will serve as the beating heart of digital civilization—a resilient, dynamic “financial life form” capable of sustaining vitality and adaptive growth.

1. Historical Inevitability

From the Information Internet to the Value Internet: A Thrilling Leap

1.1 From Web 1.0 to Web 2.0: The Democratization and Recentralization of Information

The first generation of the Internet (Web 1.0) enabled unidirectional publishing and consumption of information, giving rise to portal and search giants such as Yahoo and Google. The second generation of the Internet (Web 2.0), through social networks and user-generated content, enabled bidirectional interaction and mass participation, spawning platform empires like Meta (Facebook), YouTube, and Tencent.

However, while Web 2.0 realized the democratization of information, it also resulted in the “enclosure” of data and centralized control over value. Users generated massive amounts of data and value, yet the ownership and majority of economic benefits were monopolized by a few centralized platforms.

1.2 Web 3.0: The Dawn and Early Exploration of the Value Internet

The Web 3.0 vision, underpinned by blockchain technology, aims to resolve the uniqueness verification and peer-to-peer transfer of value, thus constructing a "Value Internet."

Bitcoin (Digital Gold): Through an elegant consensus mechanism (PoW) and an immutable ledger, Bitcoin created true scarcity in the digital world for the first time, enabling value storage from zero to one. However, it functions more as a static reserve asset, and its simple scripting language cannot support complex financial

Ethereum (World Computer): By introducing Turing-complete smart contracts, Ethereum became a globally shared, permissionless computing platform. It unlocked unlimited possibilities for decentralized applications (DApps) and laid the technological foundation for DeFi and NFTs. Yet, its performance bottlenecks (low TPS), high gas fees, and ever-increasing node storage requirements limit its potential for large-scale commercial adoption.

DeFi Summer (Financial LEGO): The DeFi boom of 2020 demonstrated that core functions of traditional finance—such as lending, trading, and derivatives—could operate autonomously without intermediaries like banks or brokers, through composable smart contracts (the “LEGO” approach).

However, the collapse of LUNA/UST in 2022, along with crises involving Three Arrows Capital and FTX, ruthlessly exposed the fragility of the early DeFi ecosystem: excessive reliance on collateral, lack of endogenous stability, economic models vulnerable to “vampire attacks” and dominance by whales, and a disconnect from traditional financial systems.

1.3 TKM’s Positioning: Beyond LEGO, Building a Financial Lifeform

The birth of TKM is not intended to merely replicate or tweak existing DeFi LEGO blocks. Our ambition is to directly address the core pain points of the previous two generations of blockchain financial systems—the “static” nature of Bitcoin and the “fragility” of early DeFi—and to construct a “financial lifeform” with endogenous stability, adaptability, and fairness. Learning from historical lessons, we aim to create a complex system that not only resists external shocks but also learns from them and evolves over time.

2. Integration of Future Tracks

TKM as the Three Strategic Pillars of a Value Hub

The future digital economy will be a complex mega-system characterized by multi-technology paradigms and the integration of multiple ecosystems. From its inception, TKM was designed to serve as the core value hub within this vast system.

2.1 On-Chain Access to RWA (Real-World Assets): Infusing Digital Worlds with Tangible Credit

Background and Opportunity:

The world is currently facing a macroeconomic environment marked by high debt and high inflation. Over USD 300 trillion in traditional assets—such as real estate, government bonds, commodities, and private equity—operate within the low-efficiency, high-friction traditional financial system. These assets urgently require greater transparency, higher efficiency, and more liquid value carriers and circulation channels. The RWA track represents the ultimate solution for combining the “solid credit” of the real economy with the “frictionless circulation efficiency” of blockchain. It is widely regarded as the next multi-trillion-dollar market opportunity for cryptocurrencies.

TKM’s Integration Path and Business Plan

The “depth of the base pool” in TKM’s economic model is not merely a reservoir for virtual assets. One of our core strategies is to develop compliant on-chain RWA protocols through collaboration with licensed custodians, legal and compliance teams, and asset originators. In the future, rigorously verified, high-quality RWAs with stable cash flows—such as short-term U.S. Treasury ETF certificates, prime

commercial real estate income rights, and receivables from blue-chip corporations—will be injected as core collateral into TKM’s base pool.

Value Enhancement:

This will provide the TKM ecosystem with real-world, sustainable cash flows—such as Treasury interest and rental income—upgrading it from a purely “algorithmic asset” to a “hybrid reserve asset” backed by tangible revenue.

Risk Management:

Our “Compass Dynamic Adjustment Valve” will incorporate key indicators of RWAs—such as yield, risk rating, and liquidity—into the algorithmic framework, dynamically adjusting their collateral weight in the base pool. For example, during periods of heightened market volatility, the algorithm may automatically reduce the weight of certain RWAs to mitigate systemic risk.

Business Prospects:

By capturing the substantial upside of on-chain RWAs, TKM will establish a strong moat. Early ecosystem participants will not only be token holders but also “shareholders” of this emerging digital asset bank, sharing in the significant value generated by its growth.

2.2 The Rise of Artificial Intelligence and Autonomous Financial Agents: Establishing the Preferred Settlement Layer for the Machine Economy

Background and Opportunity:

AI is evolving from a passive data analysis tool into “autonomous intelligent agents” capable of making independent decisions and

executing complex transactions. Goldman Sachs predicts that over the next decade, more than 60% of global financial market transactions will be conducted by AI agents. These AI agents require a platform that is rule-transparent, operate within an environment where data is trustworthy and execution is deterministic.

AI-Friendly Design of TKM

Machine-Readable Deterministic Economic Model:

All economic parameters within TKM—such as deflation rate, dividend rate, and weighting factors—are executed through open-source smart contracts in a transparent and tamper-proof manner. This provides AI with an unparalleled, absolutely trustworthy data environment. AI agents can accurately forecast future yield curves and optimize cross-cycle asset allocations without concerns about human moral hazard or data manipulation from centralized servers.

Co-Evolution with AI:

The “Compass Dynamic Adjustment Valve” itself functions as a rudimentary rule-based AI. Our technical roadmap envisions its evolution into a decentralized AI oracle network. This network will aggregate insights from multiple top-tier global AI models—such as those used for macroeconomic forecasting, sentiment analysis, and risk modeling—to conduct more sophisticated, forward-looking Monte Carlo simulations and stress tests, thereby enabling superior system adjustment decisions.

Commercial Value:

The TKM network will serve as an ideal sandbox for training and deploying next-generation financial AI. We plan to launch an “AI Agent Development Fund” to attract global AI teams to develop trading, arbitrage, and risk management bots on the TKM network. As tens of thousands of AI agents choose TKM as their primary operating venue and value carrier, this will create strong network effects and a liquidity moat.

2.3 Towards the Next-Generation Internet: Becoming the Arterial Network of Value for the Metaverse and Smart Cities

Background and Opportunity:

The Metaverse and smart cities represent the ultimate forms of the Internet—the former as immersive virtual environments, and the latter as deeply integrated physical-digital systems. Both scenarios will generate massive, high-frequency, and micro-scale value exchanges: from users paying for a piece of digital artwork in the Metaverse, to residents receiving rewards for sharing transportation data in smart cities.

By serving as the primary settlement layer and value carrier in these environments, TKM can create strong network effects and establish a liquidity moat.

TKM’s Micro-Payment and Contribution-Proof System

Technical Foundation:

TKM will be built on, or leverage, a high-performance underlying blockchain (utilizing technologies such as sharding and Layer 2 solutions) to achieve extremely high TPS (transactions per second) and minimal gas fees. This ensures the economic feasibility of handling tens of thousands of micro-payments per second.

Application Scenarios:

Metaverse: When User A utilizes a virtual scene template created by User B, the system automatically and instantaneously executes TKM payments through smart contracts. Player activities such as online time, content creation, and community contributions can be quantified and incentivized through a "Contribution-Proof" mechanism.

Smart Cities: Residents can authorize the use of their travel data for urban traffic optimization while preserving privacy, earning daily TKM rewards as compensation. Similarly, electric vehicles participating in vehicle-to-grid (V2G) energy sales can settle payments in real-time using TKM.

Economic Stabilizer:

The "Compass Dynamic Adjustment Valve" ensures that this vast and granular "contribution-incentive" economy remains balanced. It prevents systemic imbalances caused by excessive inflation (over-distribution of rewards) or deflation (liquidity exhaustion), maintaining long-term health and stability of the ecosystem.

3. In-Depth Analysis of the Technical Architecture

A Future-Proof, Evolvable System

A system designed to serve the digital economy of the future must possess evolvable and upgradeable “genetics.”

3.1 Modularity and Upgradeability

TKM's smart contract framework adopts an advanced modular design, adhering to the principle of separation of concerns. Core business logic (such as token issuance and transfers) is decoupled from adjustable parameters (such as deflation calculation formulas and weight factors), each implemented in separate, independently upgradeable smart contracts.

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```
`solidity
```

```
// Modular design example: Upgradeable Regulator (UUPS Proxy Pattern)
contract CompassRegulator is UUPSUpgradeable, Ownable {
    address public governance; // Governance contract address
    IDeflationEngine public deflationEngine; // Deflation engine interface
    IWeightManager public weightManager; // Weight management
    interface
    IRWAManager public rwaManager; // RWA management interface
```

```
// Only the governance contract can update core modules via voting
    function updateDeflationEngine(address _newEngine) external
    onlyGovernance {
```

```
require(_newEngine != address(0), "Invalid address");
deflationEngine = IDeflationEngine(_newEngine);
emit ModuleUpdated("DeflationEngine", _newEngine);
}

// Core regulation function, aggregating capabilities of all modules
function executeComprehensiveRegulation(int256 gamma) public {
    // Delegate to specialized modules to execute specific regulation
    actions
        weightManager.adjustWeights(gamma);
        deflationEngine.adjustRate(gamma);
        rwaManager.adjustCollateralRatios(gamma);
    }
}

// ... Future regulation modules can be seamlessly added
}

// UUPS upgrade function, ensuring the upgrade logic itself is also
subject to community oversight
function _authorizeUpgrade(address newImplementation) internal
override onlyGovernance {}

}
```

This architecture ensures that the TKM ecosystem can safely and seamlessly iterate on each component of its economic model through DAO voting, without service interruption or the need for hard forks. It provides the flexibility to adapt to future unknown challenges and opportunities, maintaining the system's resilience and evolutionary capability.

4. Compass Dynamic Regulator

In-depth Analysis and Code Implementation — The "Autopilot" of the Economic Model

4.1 Problem Awareness: Four Structural Deadlocks of Traditional Tokenomics

4.1.1 Whale Monopoly and Early-Bird Dividend Trap:

Early participants hold tokens at extremely low costs, and their large-scale sell-offs are enough to overwhelm any market demand. New users are always at a disadvantage in terms of both information and economic position, becoming perpetual "bag holders."

4.1.2 Death Spiral:

Token price drops → Stakers panic and redeem → Market selling pressure sharply increases → Liquidity dries up → Token price further crashes, forming a negative feedback loop that can continue until the token's value approaches zero.

4.1.3 Incentive Misalignment and Short-Termism:

Traditional economic models often overly reward short-term speculative behaviors (e.g., mining, staking, and selling) while neglecting contributors who create long-term value for the ecosystem, such as developers, content creators, and community governance participants.

4.1.4 Rigid Regulation and Market Insensitivity:

Static, pre-set parameters (such as fixed deflation rates or dividend ratios) cannot adapt to the rapidly changing on-chain market environment. It is akin to applying horse-drawn carriage-era traffic rules to manage high-speed trains—systemic risks inevitably accumulate.

4.2 TKM's Solution: Dynamic Multidimensional Sensing and Intelligent Response

4.2.1 Multidimensional Sensing and Trusted Inputs at the Data Layer

The system acquires real-time, tamper-proof, multidimensional market data via decentralized oracle networks (e.g., Chainlink, or a future proprietary AI oracle network).

Solidity

```
// Enhanced Data Aggregator Contract
contract EnhancedDataAggregator {
    using SafeMath for uint256;

    struct SynthesizedMarketData {
        uint256 timestamp;
        int256 priceIndex; // Current price / 90-day moving average (scaled
                           by 1e8); >1e8 indicates upward trend
        uint256 volumeIndex; // Current 24h trading volume / 30-day average
                           volume (scaled by 1e8)
        uint256 poolDepth; // Total depth of the base pool (USD value
                           denominated in stablecoins)
        int128 marketSentiment; // Market sentiment index [-1e8, 1e8],
                               derived from social sentiment analysis
        uint128 marketHeat; // Market heat index [0, 1e8], combining search
                           trends, active addresses, etc.
        int256 newOldYieldRatio; // New-to-old user yield ratio (Y_n / Y_o,
                               scaled by 1e8)
    }
}
```

```
// Retrieve synthesized market data after weighting and normalization
function getSynthesizedMarketData() public view returns (
    int256 H, // Market heat
    int256 V, // Trading volume momentum
    int256 P, // Token price trend
    int256 S, // Market sentiment
    int256 L, // Base pool depth index
    int256 Y_delta // Yield differential factor
) {
    SynthesizedMarketData memory data =
    _fetchAndWeightOracleData();
    H = int256(data.marketHeat);
    V = int256(data.volumeIndex);
    P = int256(data.priceIndex) - 1e8; // Convert to deviation, 0 indicates
balance
    S = data.marketSentiment;
    L = _normalizePoolDepth(data.poolDepth); // Normalize pool depth
into an index
    Y_delta = data.newOldYieldRatio - 1e8; // Compute yield differential
factor
}

function _normalizePoolDepth(uint256 rawDepth) internal pure
returns (int256) {
    // Complex normalization process, e.g., using a logarithmic or square
root function to smooth large values
    return int256(rawDepth.sqrt().div(1e9)); // Example handling
}
```

4.2.2 Precise Computation of the Core Algorithm: Γ (Gamma) Factor

The Γ (Gamma) factor serves as the "brain" of the regulator. It is a composite function that integrates market momentum, system health, and fairness indicators. Its computation is implemented on-chain to ensure full transparency and verifiability.

Solidity

```
// Enhanced Gamma Calculation Contract (using high-precision math
library)
contract EnhancedGammaCalculator {
    using SafeMath for uint256;
    using SignedSafeMath for int256;
    int256 public constant ETA = 0.015 * 1e18; // System sensitivity constant,
adjustable via governance
    int256 public constant LAMBDA = 0.5 * 1e18; // Pool depth influence
factor
    function calculateGamma(
        int256 H, int256 V, int256 P, int256 S, int256 L, int256 Y_delta
    ) public pure returns (int256 gamma) {
        // 1. Compute the comprehensive market momentum factor
        // (considering non-linear effects)
        // marketMomentum = (H * V * (1 + P') * (1 + S')) / 1e24
        int256 P_prime = P.div(1e8); // Convert deviation to ratio
        int256 S_prime = S.div(1e8);
        int256 marketMomentum = H.mul(V).mul((1e8 + P_prime)).mul((1e8 +
S_prime)).div(1e24);
```

```
P_prime).mul(1e8 + S_prime).div(1e16)).div(1e8);  
// 2. Compute system stability factor (inverse function of pool depth,  
provides damping)  
// stabilityDampener = 1 / (1 + L^λ) (prevents overreaction in overheated  
markets)  
int256 stabilityDampener = 1e36.div(1e18 + L.pow(LAMBDA.div(1e18)));  
// 3. Compute fairness-driven factor (convex function of yield difference;  
insensitive to small differences, sensitive to large ones)  
int256 fairnessDrive = Y_delta.mul(Y_delta.abs()).div(1e16);  
// 4. Comprehensive Gamma calculation: η * market momentum *  
stability damping * fairness drive  
gamma =  
ETA.mul(marketMomentum).mul(stabilityDampener).div(1e18).mul(fair  
nessDrive).div(1e18);  
// 5. Clamp Gamma to upper and lower bounds to prevent excessive  
adjustments under extreme market conditions [-1e18, 1e18]  
gamma = _boundGamma(gamma);  
}  
function _boundGamma(int256 g) internal pure returns (int256) {  
    int256 MAX_GAMMA = 1e18;  
    int256 MIN_GAMMA = -1e18;  
    return g > MAX_GAMMA ? MAX_GAMMA : (g < MIN_GAMMA ?  
MIN_GAMMA : g);  
}
```

4.2.3 Hierarchical and Precision Response at the Execution Layer

Based on the magnitude and sign of the computed Γ (Gamma) value, the system triggers tiered, multi-pronged response mechanisms.

```
// Advanced Regulation Execution Contract
contract AdvancedRegulationExecutor {
    EnhancedGammaCalculator public calculator;
    int256 public constant HIGH_THRESHOLD = 0.5 * 1e18;
    int256 public constant MED_THRESHOLD = 0.2 * 1e18;
    int256 public constant LOW_THRESHOLD = -0.2 * 1e18;
    int256 public constant CRISIS_THRESHOLD = -0.6 * 1e18;

    enum RegulationIntensity { NONE, MILD, MODERATE, AGGRESSIVE,
    DEFENSIVE }

    event RegulationExecuted(int256 gamma, RegulationIntensity
    intensity, address[] triggeredModules, uint256 timestamp);

    function executeComprehensiveRegulation() external {
        (int256 H, int256 V, int256 P, int256 S, int256 L, int256 Y_delta) =
        dataAggregator.getSynthesizedMarketData();
        int256 gamma = calculator.calculateGamma(H, V, P, S, L, Y_delta);
        RegulationIntensity intensity = getRegulationIntensity(gamma);
        address ; // Record triggered modules
        uint8 index = 0;
```

```
// Tiered response mechanism
if (intensity == RegulationIntensity.MILD) {
    // Mild adjustment: fine-tune parameters to smooth market
    fluctuations
    weightManager.adjustWeights(gamma.div(2));
    triggeredModules[index++] = address(weightManager);
} else if (intensity == RegulationIntensity.MODERATE) {
    // Moderate adjustment: significantly adjust parameters and activate
    incentives
    weightManager.adjustWeights(gamma);
    triggeredModules[index++] = address(weightManager);
    deflationEngine.adjustRate(gamma);
    triggeredModules[index++] = address(deflationEngine);
    if (gamma > 0) liquidityMinter.triggerModerateRewards();
    triggeredModules[index++] = address(liquidityMinter);
} else if (intensity == RegulationIntensity.AGGRESSIVE) {
    // Aggressive adjustment: market overheating, strongly cool down and
    reclaim liquidity
    weightManager.adjustWeights(gamma.mul(3).div(2));
    deflationEngine.adjustRate(gamma.mul(2));
    buybackExecutor.triggerAggressiveBuyback();
}
triggeredModules[index++] = address(weightManager);
triggeredModules[index++] = address(deflationEngine);
triggeredModules[index++] = address(buybackExecutor);
} else if (intensity == RegulationIntensity.DEFENSIVE) {
```

// Defensive adjustment: market panic, fully support the market and provide additional yield

```
    weightManager.adjustWeights(gamma.mul(2)); // gamma is negative, so this decreases weight increment
```

```
    deflationEngine.adjustRate(gamma.div(2)); // significantly reduce deflation rate to ease selling pressure
```

```
    emergencyYieldBooster.triggerSafetyAPY(); // activate emergency APY boost to attract holders
```

```
    triggeredModules[index++] = address(weightManager);
```

```
    triggeredModules[index++] = address(deflationEngine);
```

```
    triggeredModules[index++] = address(emergencyYieldBooster);
```

```
}
```

```
    emit RegulationExecuted(gamma, intensity, triggeredModules, block.timestamp);
```

```
}
```

```
function getRegulationIntensity(int256 gamma) internal pure returns (RegulationIntensity) {
```

```
    if (gamma >= MED_THRESHOLD && gamma <
```

```
function getRegulationIntensity(int256 gamma) internal pure returns (RegulationIntensity) {
```

```
    if (gamma >= MED_THRESHOLD && gamma <
```

```
HIGH_THRESHOLD) return RegulationIntensity.MODERATE;
```

```
    else if (gamma >= HIGH_THRESHOLD) return
```

```
RegulationIntensity.AGGRESSIVE;  
else if (gamma < MED_THRESHOLD && gamma > LOW_THRESHOLD)  
return RegulationIntensity.MILD;  
else if (gamma <= LOW_THRESHOLD && gamma >  
CRISIS_THRESHOLD) return RegulationIntensity.DEFENSIVE;  
else if (gamma <= CRISIS_THRESHOLD) return  
RegulationIntensity.DEFENSIVE; // can further subdivide crisis mode  
else return RegulationIntensity.NONE;  
}  
}
```

4.3 How the Regulation Valve Precisely Resolves the Four Structural Deadlocks

1. Anti-Whale Monopoly: When the system detects that Y_n (new user yield) continues to fall significantly below Y_o (existing user yield), the value of $\Gamma\Gamma$ becomes positive and increases. The system will automatically raise the initial staking weight for new users and may also trigger a “differentiated deflation” mechanism for early large holders — meaning that the larger the token balance, the slightly higher the deflation rate applied to the excess portion.

This dynamic adjustment helps rebalance the yield gap between new and old participants, ensuring that ecosystem rewards continuously favor new entrants and maintain long-term vitality.

2. Anti-Death Spiral:

When the price index (P) and trading volume index (V) continue to decline, but the pool depth (L) remains relatively stable — supported by long-term holders — the Γ (Gamma) value may become negative but with a small absolute magnitude.

In this case, the system activates a “defensive regulation” mechanism: it significantly lowers the global deflation rate to reduce selling pressure. At the same time, tokens that would normally be burned through deflation are temporarily redirected and preferentially allocated to liquidity providers (Lps).

This high-yield incentive stabilizes the liquidity pool and effectively prevents a downward spiral of panic redemptions and collapsing liquidity.

3. Long-Term Incentive Alignment:

Through a dynamic weighting system, users’ staking weights accumulate along an S-shaped curve over time — slow growth in the early phase, accelerated accumulation in the middle phase, and gradual flattening later. This ensures that long-term stakers capture a larger share of dividend distributions.

The regulation valve continuously monitors the overall proportion of long-term staking weights. If this proportion becomes excessively high — thereby reducing the appeal for new participants — the system automatically fine-tunes the curve parameters.

This mechanism ensures an optimal balance between rewarding loyalty and welcoming new participants, sustaining both ecosystem vitality and fairness.

4. Dynamic Adaptability:

All key parameters — including the deflation rate, weight increments, and dividend ratios — are no longer fixed values. Instead, they dynamically fluctuate within a governance-defined range, centered around the Γ (Gamma) factor.

This design endows the TKM economic model with the ability to “learn” and “evolve,” allowing it to adapt organically to external market changes — much like a living organism responding to its environment.

5. Genesis Launch

Practical Deployment and Value Flywheel of the TKM Token Management System

This chapter provides a detailed explanation of the implementation strategy for the TKM economic model during its launch phase.

This system serves as both the practical foundation and the trust cornerstone of our grand vision — meticulously designed to ensure that, even in its early “cold start” stage, the ecosystem can be infused with strong liquidity, solid community consensus, and a real-world validation of the “Compass Dynamic Regulator” mechanism’s adaptive capabilities.

5.1 The Cornerstone of Co-Created Value: A Three-Tier Shareholder Structure

We have designed a unique three-tier structure to ensure that the driving force behind the ecosystem's launch comes from the broadest possible community consensus, rather than being concentrated in the hands of a few venture capital institutions.

- **Founding Shareholders (1,000 Seats):**

- **Eligibility:** Invest 200 USDT to become a co-founder of the ecosystem.

- **Privileges:**

- 1. **Global Dividend Sharing:** Permanently receive a weighted dividend of 8% from all global entry funds, becoming the most direct beneficiary of the ecosystem's growth.

- 2. **Early Mining Rights:** Gain the exclusive, priority qualification for early participation, securing the foundation for future wealth during the value dip period.

- **Community Ambassador (Unlimited Seats):**

- **Eligibility:** Successfully directly invite 10 Founding Shareholders to be promoted to Community Ambassador.

- **Privileges:**

- 1. **Weighted Incentives:** Exclusively receive a weighted dividend of 2% from all global entry funds.

- 2. **Deep Network Positioning:** Enjoy community evangelism rewards up to 20 levels, building a strong passive income network and capturing long-term dividends from ecosystem expansion.

- **Validator (LP Shareholder):**

- **Eligibility:** Provide TKM/USDT LP certificates equivalent to 120 USDT, injecting liquidity into the ecosystem's base pool.

- **Privileges & Mechanisms:**

- **Base Pool Protection:** Validator funds go directly into the decentralized liquidity pool, increasing the pool's depth. For every additional 100,000 USDT added to the pool, validators receive an opportunity to autonomously double their stake once, strongly incentivizing the community to collectively expand the pool.

- **Contractual Allocation Guarantee:** All validator funds are distributed through smart contracts with full transparency:

- **Founders and Ambassador Incentives: 10%**

- **Ecosystem Development Fund: 10%**

- **LP Permanent Liquidity: 80%**

This allocation mechanism ensures that liquidity is permanently locked while fairly rewarding the early contributors to the ecosystem.

5.2 Value Engine: Internal Combustion Drive & Deflationary Storm

The core of TKM's value growth is a powerful "internal combustion" deflationary model.

- **Core Mechanism:** The total TKM base pool undergoes daily deflationary burns starting at 0.68%, dynamically adjusted in real-time by the "Compass Dynamic Adjustment Valve." These funds are used for ecosystem incentives and market support, creating a perpetual value-upward spiral.

5.2 Value Engine: Internal Combustion Drive & Deflationary Storm

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- **Daily Burn Allocation (Following Dynamic Adjustment):**

- **LP Shareholder Returns:** 25.8% – Directly rewarded to liquidity providers, solidifying the ecosystem foundation.

- **Community Evangelism Incentives:** 9.03% – Drives community expansion and broadens consensus.

- **Staking Dividend Pool:** 7.8% – Incentivizes long-term holding, reducing market sell pressure.

- **Black Hole Burn:** 57.37% – Permanently destroys tokens, directly reducing circulating supply and serving as the core driver for price appreciation.

5.3 Long-Term Philosophy: On-Chain Staking System

Through the on-chain staking system, we convert short-term speculators into long-term ecosystem co-builders.

- Principle: "Staking on-chain, no fund pools" – fully decentralized, assets self-custodied, ensuring absolute security.

- **Staking Periods & Weights:**

- **30-day period:** 20% weight of the dividend pool

- **180-day period:** 35% weight of the dividend pool

- **360-day period:** 45% weight of the dividend pool

• Operational Mechanism:

- A staking window opens daily at a fixed time, allowing users to participate freely.
- Dividends are calculated in real-time based on the total network staking weight, with earnings credited instantly.
- Early redemption triggers a 72-hour cooling-off period, during which the operation can be canceled without affecting already accrued earnings.
- Forced redemption deducts a portion of the forfeited earnings and automatically sends them to the black hole burn; this penalty mechanism also serves as an additional reward for loyal participants.

5.4 Viral Growth: Community Evangelism Reward Matrix

We have developed an industry-leading, deeply incentivized model to drive exponential community expansion.

Direct Referrals	Reward Level	Earnings Share
1	Level 1	6.5%
2	Level 2	5.5%
3	Level 3	4.5%
4	Level 4	3.5%
5	Level 5	2.5%
6	Level 6	1.5%
7	Level 7	1%
8	Level 8	1%
9	Level 9	1%
10	Level 10	1%
13	Levels 11–20	0.7%

This model not only rewards direct referrals but also encourages the construction of a deep and wide community structure, allowing every evangelist to enjoy long-term dividends generated by ecosystem network expansion.

5.5 Global Liquidity and Ecosystem Continuity

- **Seamless Exchange:** TKM will enable exchange permissions with major global digital assets. By collaborating with institutions or experienced instant-swap platforms, cross-chain free exchange will be realized.
- **Ecosystem Self-Sustaining Cycle:** 5% slippage generated from exchanges will be fully allocated to the Ecosystem Development Fund, providing continuous funding for the development and operation of the next ecosystem (e.g., "StarSea Launch"), forming a sustainable closed-loop.

6. StarSea Launch

Genesis Ecosystem – The Ultimate Validation Arena for the Token Management System

Now, we can more precisely define the role of the “StarSea Launch” ecosystem. It serves as the first and most critical real-world application and dividend outlet for the TKM token management system described in this chapter.

- **Unified Identity:** Your roles as Founding Shareholder, Community Ambassador, and LP Validator in this chapter will be directly carried over to the “StarSea Launch” ecosystem. The TKM rewards and dividends you earn will serve as the “energy source” for participating in the construction of StarSea Launch.
- **Model Validation:** All economic activities within StarSea Launch—including task rewards, NFT minting, and transaction fees—will generate real data flows, which will be fed back into the Compass Dynamic Adjustment Valve. The valve will dynamically adjust parameters such as deflation rates and dividend ratios described in Section 5.2, achieving practical validation of the theoretical model.
- **Value Closed-Loop:** The token management system provides initial liquidity and a user base for StarSea Launch. The activity and growth of StarSea Launch, in turn, create real application value and data for the entire TKM network, driving the value appreciation of the mainnet TKM.

7. The Ultimate Form of Token Economics

From Consumption to Value Creation

The TKM economic model represents a paradigm shift in token design: upgrading from a simple consumption model to a self-reinforcing value creation flywheel.

7.1 Triple Value Flow Cycle (After Integrating the Launch Model)

1. Primary Cycle (Value Injection):

Founders and validators inject funds → Base pool depth (L) grows sharply → Daily deflation driven by the “internal combustion” mechanism pushes up token price → System security and attractiveness multiply.

2. Intermediate Cycle (Value Internal Circulation):

Tokens generated through deflation → Precisely distributed according to staking weights and the community evangelism matrix → Incentivizes long-term staking and community expansion → Forms strong network effects and deep liquidity.

3. Advanced Cycle (Value Sublimation):

Black hole burns create ultimate scarcity → Ecosystems like StarSea Launch generate real demand and application value → The Compass Dynamic Adjustment Valve ensures global balance → Positive feedback further strengthens the primary and intermediate cycles.

7.2 Ultimate Deflation and Value Vision: Toward 21,000 Stars of the Sea

In our economic model, deflation is not an endless process but a purposeful and solemn journey. The total supply of TKM tokens will

ultimately stabilize at 21,000 through continuous buybacks, burns, and the black hole mechanism.

Imagine that day:

When TKM deflates to 21,000 tokens, the TKM held by you as an original Founding Shareholder or Community Ambassador will be exceptionally valuable. This is not just wealth—it is a ticket to the core circle of digital civilization. These 21,000 TKM tokens will serve as the core value anchor and governance credential, mapped across all sub-ecosystems under the TKM ecosystem (such as RWA trading platforms, AI agent marketplaces, and metaverse virtual economies).

These 21,000 TKM tokens will become the first asset in human history to simultaneously embody:·

- **Ultimate Scarcity of Gold** – fixed and extremely limited supply
 - **Stable Yield of Government Bonds** – supported by the deflation model and RWA cash flows
 - **Unlimited Growth Potential of Tech Stocks** – capturing the dividends from sectors like AI and the Metaverse
 - **Super Liquidity of Currency** – seamless circulation across ecosystems
- As a “supra-sovereign value storage asset”, it will serve as your most reliable, valuable, and solid cornerstone of wealth in the digital world.

8. Conclusion

Embarking Together on a New Era of Autonomous Finance

We stand at a watershed moment in financial history. The TKM global ecosystem, starting with a robust token management system, centered around the revolutionary Compass Dynamic Adjustment Valve, and pioneered by StarSea Launch, is not merely building a project. It is creating a digital financial life form that can self-perceive, self-regulate, self-repair, and continuously evolve.

Join us!

This is not just an investment; it is a journey in resonance with the spirit of our era. By becoming a TKM Founding Shareholder, Community Ambassador, or LP Validator, you are inscribing your name into the chronicle of digital civilization. Let us, together, take this solid first step, validate today's blueprint, and sail toward a new digital era illuminated by 21,000 stars—a future that belongs to all of us!

TKM Global Ecosystem Core Development Team
Building the next-generation digital financial infrastructure