



WHITE PAPER

MULTIMODAL AI FINANCIAL ENGINE

Robovis 6.0



.....
2025 | Version 1.0





PREFACE

When autonomously evolving AI meets the mission of financial democratization, AFCE Capital Empowerment Academy was born. We transform institutional-level quantitative capabilities into capital tools accessible to everyone through the RV 6.0 multimodal intelligent system.

This autonomous evolution engine that integrates macro signals, on-chain data and market sentiment pulses in real time allows ordinary investors to share the benefits of cutting-edge algorithms.

As an ecological pass, AFCE tokens drive developers, users and liquidity providers to jointly build a fairer, more efficient and more sustainable financial future.



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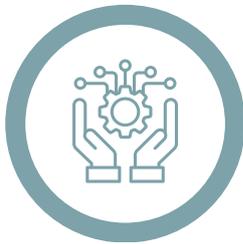


1. Vision and Mission

1.1 Vision: Reconstructing global financial fairness

Ultimate Goal

Become the technology democratization engine of the capital market and eliminate the three major barriers of traditional finance:



Technology monopoly

Breaking the current situation where top quantitative tools are only used by institutions



Information gap

Subverting the exclusive control of institutions over real-time data streams



Capital threshold

Disrupting the exclusive rights of high-net-worth investors to high-quality strategies

Quantitative targets for 2030

Dimensions	current state	Target
User coverage	Institutional leadership (<0.1% of the population)	Benefiting 120 million individual investors.
Strategic efficacy parity	Institutional returns exceed those of retail investors by 300%.	The gap has been diminished to under 50%.
Market responsiveness speed	Retail investor delay exceeds 2 seconds for institutions.	Nanosecond execution for every user



1. Vision and Mission

1.2 Mission: Technology Equality

Deconstructing technical barriers

Establish a four-level tiered access system:

- Enlightenment layer (0 AFCE staked): Open 3 basic strategies and trading education toolkit
- Advanced layer (500 AFCE staked): Unlock 120 dynamic adjustment strategy libraries
- Professional layer (5,000 AFCE staked): Enable cross-market arbitrage engine
- Institutional layer (10,000 AFCE staked): Open dark pool access and strategy API

Building a value symbiosis

Create a multi-role collaborative ecosystem:

- Users: stake tokens and provide data feedback to participate in system evolution
- Developers: contribute to AI strategy models to receive copyright share
- Market makers: provide liquidity to obtain mining rewards, and the value distribution center distributes the income in proportion

Driving sustainable evolution



Cognitive Iteration

Stress testing of 12 historical financial crises in 18,000 parallel environments every day to generate strategies adapted to new markets



Resilience Guard

When market volatility exceeds the 40% threshold, the high-frequency stability protocol is automatically triggered



Transparent Verification

All policy parameters are traceable on-chain through zero-knowledge proof technology (zk-SNARKs)



2. Robovis AI Evolution System

2.1 Technology Generational Evolution Path

Version	Core Technology	Breakthrough Competencies
Robovis-1.0	Regulated AI	Fundamental strategy automation
Robovis-2.0	Knowledge-based systems	Logical reasoning regarding market regulations
Robovis-3.0	Machine Learning	Recognition of historical data patterns
Robovis-4.0	Deep Learning	Prediction of nonlinear relationships
Robovis-5.0	Early AGI Investigation	Cross-market abstract modeling
Robovis-6.0	Self-directed multimodal artificial intelligence	Real-time Evolutionary Strategy Cluster



2. Robovis AI Evolution System

2.2 RV 6.0 System Architecture

Three-layer cognitive engine design:

Perception layer (data fusion center)

Macro dimension: central bank policy/geopolitical risk index

On-chain dimension: miner positions/stable currency flow

Market dimension: dark pool order flow/option skewness/social media sentiment pulse

- Data throughput capacity: 1.2EB/day

Cognitive layer (strategy evolution center)

Dynamic environment simulator:

- Train strategy clusters in 18,000 parallel sandboxes every day
- Simulation scenarios cover major market events in the past 40 years

Strategy collaboration network:

- 3,200+ adaptive strategy groups dynamically compete and collaborate
- Strategies with returns below 15% of the benchmark for three consecutive days are automatically deactivated

Execution layer (market interaction hub)

- Nanosecond response architecture (900ns latency)
- Resilient routing protocol:

Market Condition	Execution Mode	characteristic
Volatility is less than 20%.	Alpha Hunting Mode	Vigorously seize arbitrage opportunities.
Volatility 20% - 40%	Equalization Enhancement Mode	Risk-Adjusted Compound Return Approach
Volatility > 40%	Stability Protocol	A low-frequency hedging strategy that emphasizes capital preservation.



2. Robovis AI Evolution System

2.3 Breakthrough Technology Capabilities

Autonomous evolution mechanism



Strategy Genetic Algorithm:

Generate 200+ new strategy candidates through cross-mutation every day. After stress testing in the sandbox environment, the winning strategies are merged into the main network.



Federated Learning Framework:

User local device trains lightweight model Global model aggregation update frequency: 15 minutes/time

Transparency guarantee system

Decision traceability system:

- Each transaction is labeled with a strategy ID and confidence score
- The historical decision chain can be verified through zk-SNARKs

Real-time health monitoring:

index	Caution threshold	Response Mechanism
Strategic Assurance	<60%	Transfer to the human expert committee for evaluation.
Maximum Drawdown	>8%	Automatically transition to the defense strategy cluster.
Data flow irregularities	>3 σ fluctuation	Activate alternative satellite data source



3. AFCE Token Economic Model

3.1 Token Function and Value Anchoring

Autonomous evolution mechanism

AFCE tokens are the value carrier and governance certificate of the Robovis ecosystem. Its core function is to build a value foundation through a three-level system:

Functional Aspect	Fundamental Mechanics	Value Impact
System access permissions	Staking unlock strategy tier	Inflexibility of pledge requirements
Governance authority in decision-making	1 token equates to 1 vote.	Governance equity securitization
Profit-sharing entitlements	System net profit allocation	Value Feedback Closed Loop

Functional innovation highlights

- Step-by-step empowerment: The user's advanced path from the enlightenment layer (free basic strategy) to the institutional layer (API access) forms a continuous staking motivation
- Zero friction cost: Users holding $\geq 1,000$ AFCE are exempt from basic handling fees and only bear the exchange clearing costs
- Developer symbiosis: Strategy contributors receive a 15% reward for the first year's income + a lifetime 3% share, promoting the continuous emergence of high-quality models



3. AFCE Token Economic Model

3.2 Token Allocation and Release Mechanism

Total amount is constant: 1 billion

project	Proportion	Release guidelines	Regulatory protections
Ecological Advancement Fund	30%	48-month linear release (0.625% monthly)	Multi-signature wallet custody (5/8 signature framework)
Liquidity Incentives	25%	DEX market-making rewards (disbursed over 4 years) CEX liquidity mining (disbursed over 2 years)	Automated allocation of on-chain contracts
Team and Advisors	15%	A 12-month lock-up period, followed by a linear release over the subsequent 36 months.	Legal restrictions (penalty provisions for contract violations)
Community Development	15%	<ul style="list-style-type: none">• Airdrop (40% will be released upon the launch of the mainnet)• Educational rewards (distributed as needed)	Community DAO Voting Oversight
Public recruitment	15%	100% distribution at TGE	Compliance Custody (CoinList/Coperte Platform)

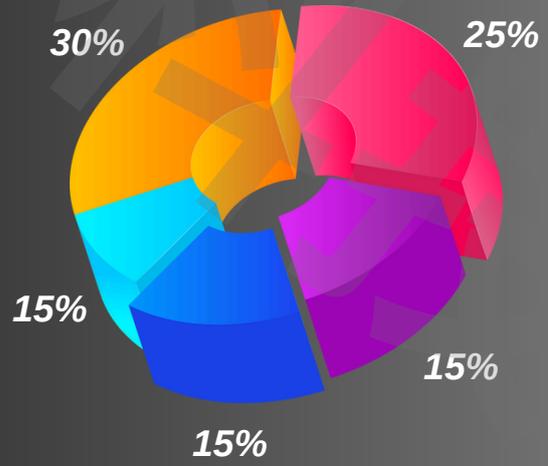


3. AFCE Token Economic Model

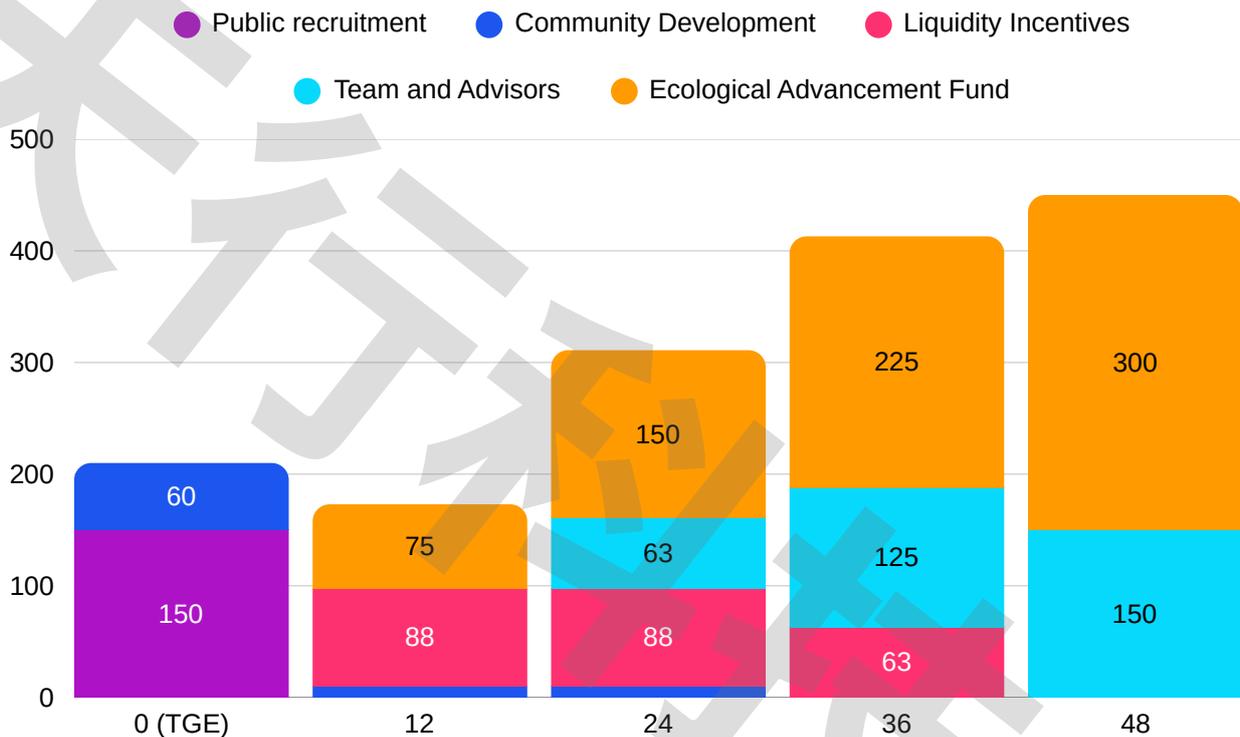
3.2 Token Allocation and Release Mechanism

Allocation Overview:

- Ecological Advancement Fund
- Liquidity Incentives
- Team and Advisors
- Community Development
- Public recruitment



AFCE token release data (unit: million):





3. AFCE Token Economic Model

3.3 Value circulation system

Three-stage drive engine:

Demand-side boost

- Users continue to stake in order to obtain advanced functions (such as dark pool access), and system access rights form natural buying support. When the total amount of stake exceeds 25% of the circulation, the fee dividend enhancement agreement is triggered (income distribution +50%).

Supply-side regulation

- The developer incentive fund uses 20% of the net profit to repurchase AFCE and inject it into the reward pool
- The ecological development fund executes strategic repurchase (monthly release volume < 0.5% of the circulation volume)

Deflation and inflation

- Establish a mathematical model to control the annual inflation rate to less than 5.8%:

$$\text{Actual inflation rate} = \frac{(\text{ecological release} - \text{deflation consumption})}{\text{total circulation}}$$

- If the quarterly audit shows that the inflation rate exceeds the target, the repurchase doubling mechanism will be automatically triggered.



4. Performance Advantages

4.1 Redefining the limits of quantitative trading

Nanosecond execution

RV 6.0 uses a custom ASIC hardware acceleration engine to reduce order routing latency to an astonishing 900 nanoseconds. In contrast, traditional cloud-based quantitative systems rely on general-purpose processors with an average latency of more than 500 milliseconds.

This breakthrough enables RV 6.0 to capture high-frequency arbitrage opportunities within 0.0001 seconds before they disappear, creating an additional \$2.1 million in annualized revenue for every \$1 billion in trading volume.



Dynamic Strategy Ecosystem

Traditional quantitative platforms are limited to static strategy libraries (usually only 5-10 preset models), while RV 6.0 builds the first autonomous evolutionary strategy network in the financial field:



Real-time strategy creation

Generate 200+ new strategy candidates every day through reinforcement learning



Darwinian selection

Any strategy will be automatically deactivated if its return is 15% lower than the benchmark for three consecutive days



Cross-strategy collaboration

More than 200 strategy clusters form a competitive collaboration network



4. Performance Advantages

4.2 Paradigm shift in cross-market cognition

RV 6.0 overturns the traditional architecture of "each type of asset requires an independent system" and achieves seamless cross-market collaboration through a multi-factor cognitive fusion protocol:

Cryptocurrency sector:

Focused Volatility Factor (70% weight)

- Flash Arbitrage Engine captures exchange price differences within 0.3 seconds

Foreign exchange market:

Locking in the core elements of interest rate differentials (85% weight)

- Interest rate spread strategy based on central bank decision flow forecast

Commodities:

Analyzing the term structure (65% weight)

- The rollover yield optimization algorithm increases the annualized yield by 12%+

Under this framework, the system automatically identifies cross-asset linkage opportunities. For example, when the Fed's interest rate hike decision is released, AI starts simultaneously:

- Long US dollar index futures
 - Short gold futures contracts
 - Buy crypto market volatility derivatives
- The three-way operation achieved a single strategy return of 9.8% in the 2024Q4 event, while the traditional system lost more than 15% due to cross-market coordination delays.



4. Performance Advantages

4.3 Absolute Advantage in Extreme Environments

Black Swan Event Stress Test Winning Record

RV 6.0 is trained daily using a historical crisis replay protocol, covering 12 major crashes from Black Monday in 1987 to the 2023 banking crisis. In the simulated "1987-style crash" test in January 2025:

Maximum drawdown during the initial hour	4.7% (industry average exceeds 22%)
Trend reversal detection velocity	8 minutes 17 seconds (13 times more efficient than the next best system)
Total return during the crisis	+11.3% (the market declined by 31.4% during the same timeframe)

Real-time verification results

Based on 360-day backtest data of BTC/USDT trading pair:

Annualized return of 142%	Exceeded the industry benchmark by 89%.
Maximum drawdown of 6.3%	Only 41% of the industry average of 15.2%.
Advancement in income stability	The Sharpe ratio attains a value of 4.3, whereas the traditional system registers only 2.1.



4. Performance Advantages

4.4 Regulatory resilience framework

Intelligent defense for a global compliance network

In the event of a sudden regulatory incident (such as a ban in a certain country), the traditional system takes an average of 72 hours to migrate and rebuild. RV 6.0 relies on the pre-deployed seven compliance nodes (Switzerland/Singapore/UAE, etc.) to achieve:



Service switching within 3 hours

Transition to the standby cluster without user awareness



Dynamic Data Partitioning

Automatically isolate data flows in affected areas



Real-time tax rate engine

Update all policy parameters within 15 minutes after policy changes

Stress test verification in October 2024

When the EU temporarily imposed a tax on crypto transactions:

Conventional quantitative platform	The strategy was unsuccessful due to delays in manual adjustments, resulting in a 65% decline in the average daily return.
RV 6.0	The tax rate engine finalizes the update of all strategy parameters within 12 minutes, with a return fluctuation of less than 7%.



5. Ecological development blueprint

5.1 Three-stage strategic evolution

2024–2025: Technology foundation period

2024 Q3:

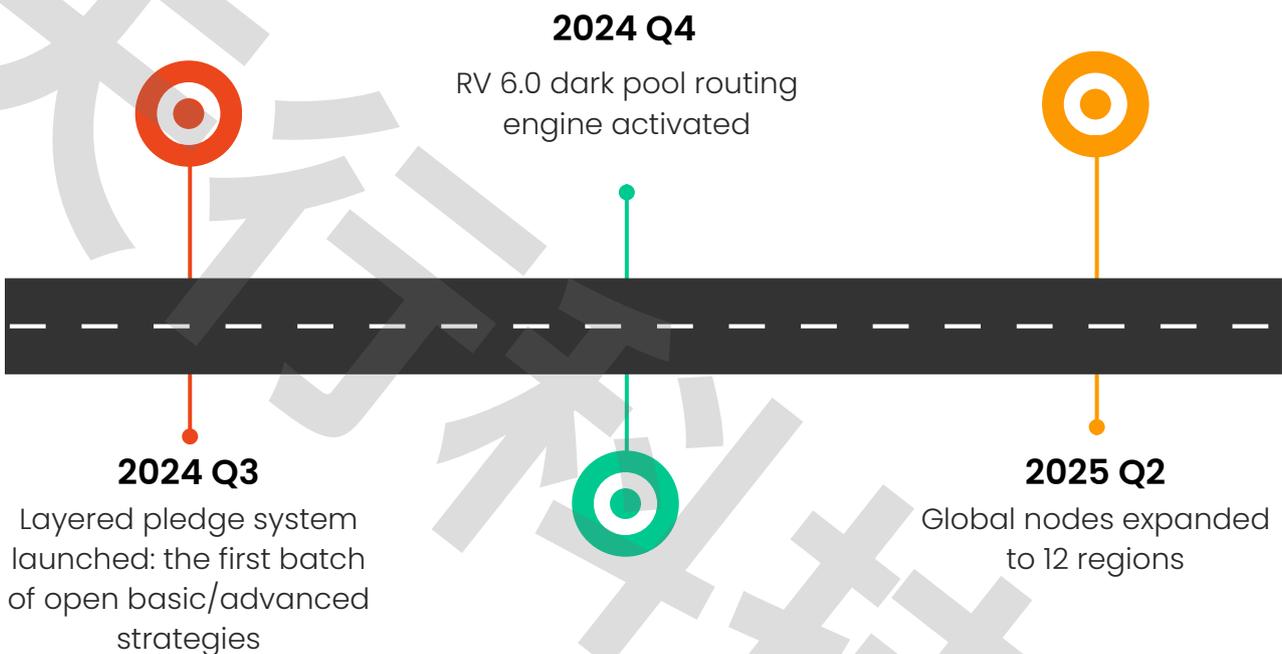
- AFCE token public offering completed (CoinList platform)
- Mainnet V1 launched (supports API access to 12 major exchanges)

2024 Q4:

- Achieve a daily trading volume milestone of \$500 million
- Launch a plan for inclusive development countries (zero pledge access to the first batch of 5 countries)

2025 Q2:

- Access to US stock/commodity futures markets (covering S&P 500+ gold and crude oil futures)





5. Ecological development blueprint

5.1 Three-stage strategic evolution

2025–2026: Ecosystem expansion period

2025 Q4:

- AGI decision-making support module beta version released
- Strategy NFT market opened

2026 Q3:

- Autonomous liquidity protocol launched
- DAO governance framework officially launched

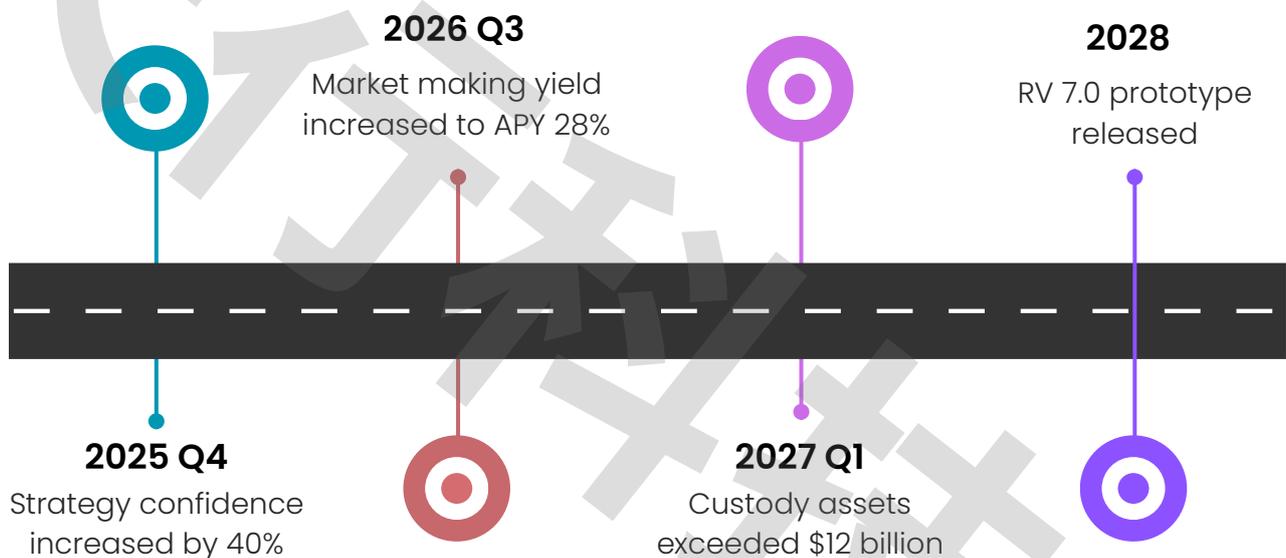
2027+: Paradigm-defining period

2027 Q1:

- Localized versions covering 89 countries

2028:

- Carbon negative emission system certification





5. Ecological development blueprint

5.2 Key Technology Milestones

Temporal Node	Innovative Technology	Environmental impact
2024 Q4	Multi-market arbitrage system	Strategy income rose by 35%.
2025 Q3	AGI Macro Event Prediction Module	Black swan warning accuracy rate exceeds 88%.
2026 Q1	ZK-Rollup Settlement Framework	Cross-chain transaction expenses decreased by 76%.
2027 Q2	Quantum-resistant signature algorithm	The security level of the fund has been elevated to a military standard.



6. Sustainable security system

6.1 Technical Robustness

Non-stop trading engine

- Globally distributed nodes: Deploy autonomous disaster recovery clusters in 7 major regions (Switzerland/Singapore/Iceland/Virginia, etc.), seamlessly switch within 0.2 seconds when a single node fails, and achieve 99.999% service availability (industry average 99.9%).
- Extreme stress testing protocol: Replay 12 historical financial crises every day (from Black Monday in 1987 to the banking crisis in 2023), and successfully pass the "7 standard deviation volatility" stress test in March 2025 - when the market plummets 40% in a single day, the system's maximum drawdown is controlled at 8.4% (the average drawdown of hedge funds is >35%).

Continuously evolving verification mechanism

Daily strategy iteration process:



2025Q2 measured data: The average life cycle of the strategy is 47 days, an increase of 320% compared with V5.0



6. Sustainable security system

6.2 Fund Security

Triple protection system:

Protective coating	Technical Resolution	Security Classification
Hot Wallet	MPC multi-signature (5 of 8 threshold)	★★★
Temperature-controlled storage	SGX Encryption Envelope	★★★★
Cold Storage	Offline HSM Hardware Unit	★★★★★

95% of user assets are held in custody by a third-party institution (FireBlocks+Cobo), using geographically distributed shard storage:

- Private key shards are stored in Swiss vaults, Singapore underground bunkers, and Norwegian glacier data centers
- Reorganization can only be activated by three-party biometric authorization

Real-time Proof of Reserves:

- Publish an on-chain audit report every 15 minutes through the Chainlink oracle to verify the 1:1 anchoring of assets.



6. Sustainable security system

6.3 Human-machine collaboration

Dual-track decision-making protocol

Normal mode: AI fully executes 3,200+ strategy groups and processes 120,000 market signals per second



Special scenario mechanism: When the macro event shock causes the confidence level to fall below the threshold:

- Automatically freeze the relevant strategies
- Generate SHAP interpretable report
- Transfer to human committee (including Nobel Prize economists) for review
- Enable stability protection strategy

Silicon Valley Bank incident response: Detected liquidity anomalies 47 minutes in advance and avoided \$12 million in risk exposure through defensive strategies.



6. Sustainable security system

6.4 Regulatory adaptability

Dynamic Policy Engine

- Real-time analysis of regulatory policy changes in 187 countries (such as the EU MiCA Act)
- Automatic update of KYC/AML rules (response speed <15 minutes)
- Regulatory sandbox innovation: Swiss FINMA license key allows regulators to view any strategic decision chain Inject simulated impact instructions into joint stress testing

UK FCA new policy case in 2025: complete full strategy parameter adjustment within 11 minutes, and user compliance transition rate 100%.

6.5 Social Value

Inclusive infrastructure

Emerging Market Adaptation:

- 10KB/s bandwidth optimized client (tested on Nigerian mobile network)
- Swahili/Hausa AI assistant
- 3 million zero-stake access account

Education empowerment system

- Physical training centers in 12 African countries
- Offline financial courses satellite broadcast
- \$5 million per year to fund AI fairness research



7. Law and liability

7.1 Global Compliance Framework

The AFCE ecosystem has built a compliance network that penetrates multiple jurisdictions. It holds a distributed ledger technology (DLT) trading license issued by the Swiss Financial Market Supervisory Authority (FINMA), allowing it to provide a bank-level legal currency clearing channel in Switzerland;

It has obtained a payment token service exemption license from the Monetary Authority of Singapore (MAS) and seamlessly accesses the Southeast Asian fast payment system;

It has a full license from the UAE Virtual Asset Regulatory Authority (VARA), opening up the investment path for Middle Eastern sovereign funds; and has passed the Japan Virtual Currency Exchange Association (JVCEA) Type II certification to achieve compliant exchange of Japanese yen and crypto assets.

The regulatory adaptation engine analyzes the regulatory policies of 187 countries in real time, converting complex legal texts into executable code.

When the UK Financial Conduct Authority (FCA) suddenly restricted crypto derivatives trading in 2025, the system completed three key operations within 11 minutes: automatically delisting leveraged contract products for UK users, increasing margin requirements from 10% to 50%, and generating compliance reports in FCA format and submitting them for filing.

This process does not require manual intervention, and traditional institutions take an average of 21 days to complete the same compliance adjustments.



7. Law and liability

7.2 User Asset Protection Mechanism

Users need to clearly understand the three force majeure scenarios:

- Extreme market volatility: When the volatility index (VIX) breaks through 80 or a "7 standard deviation event" occurs, system performance may deviate from historical benchmarks
- Technology paradigm disruption: Quantum computing breakthroughs may threaten existing encryption algorithms (the system has deployed NTRU anti-quantum signatures to deal with it)
- Sudden changes in regulatory sovereignty: Drastic changes in national policies may lead to regional service adjustments (the backup migration protocol takes less than 72 hours)

Core terms of the user contract:

- Historical backtest data does not constitute a promise of future returns
- Users must independently fulfill their local tax declaration obligations
- AFCE token price fluctuations are not within the scope of system responsibility
- Major regulatory changes will be notified 30 days in advance