

FUZE.ac

Whitepaper

AI-Powered Liquidity Meets Public-Market Discipline

Redefining Token Liquidity & Ownership Through Real Yield

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1. Executive Summary

What Is FUZE.ac?

FUZE.ac is the **all-in-one Utility ♦ Liquidity ♦ Yield OS** for tokens that refuse to be just another ticker. Its edge starts with **FUSE PlayHub**—a plug-and-play GameFi layer on **Base** that converts any token into real game fuel in <60 seconds. Layered on top are:

- an **OTC Deal Engine** that raises capital without post-unlock dumps,
- an **AI Market-Maker Service** that holds spreads $\leq 2\%$ across 40+ venues,
- and a **Real-Yield Vault** that streams 100 % of net profit to FUZE stakers in **Stablecoin(USDT)**.

Utility first → liquidity second → cash-flow always.

Why It Matters Now (2025 data)

Pain-Point	Industry Stat	Source snapshot
Zombie liquidity	60 % of new CEX pairs record $\geq 70\%$ bot volume	Kaiko Q1-25 report
Unlock sell-offs	90 % of cliffs > 1 % float cause double-digit drops; team cliffs median – 25 %	Messari unlock tracker
Delisting risk	Top-10 CEXs purge low-volume pairs every 30 days ; projects get ~14-day notice	Exchange bulletins '25

Retail fatigue	Real-yield tokens (e.g. GMX) out-performed inflationary peers by 42 % in '24-'25	DeFiLlama index
Exploding GameFi demand	Hamster Kombat 300 M, Notcoin 40 M users in < 6 months	Telegram Mini-App stats

FUZE.ac Response

- a. **PlayHub** injects game-driven transfers → lifts on-chain tx + 28 % and CEX volume + 35 % in pilots; retention + 30 %.
- b. **OTC + AI MM** synchronise unlock defence so cliffs land with < 5 % slippage.
- c. **KPI Engine** auto-boosts volume / clamps spread before the dreaded “ST” tag.

Triple Engine vs. Market Alternatives

Feature	FUZE PlayHub ♦ OTC ♦ AI MM	Notcoin	Keyrock
Instant token utility	Yes – GameVault adapter	Game mining only (no utility off-app)	✗
Revenue share to holders	3 % game rake + 100 % net profit	✗	✗
Dump-proof fundraising	OTC Deal Engine (KPI-bonded)	✗	✗

AI market-making	Built-in – ≤ 2 % spread	✕	✓ but utility blind
Compliance auto-switch	Yes – KPI Engine	✕	Partial

Result: FUZE.ac supplies **utility + liquidity + yield** in one contract stack; competitors cover only a slice.

FUZE Token – Real Yield, Zero Inflation

- **100 % of net Stablecoin(USDT) profit** (PlayHub 3 % rake + MM retainers + OTC fees) → stakers every quarter.
- **Fixed 500 M supply**, no emissions; insiders stake under the same contract.
- Behaves like a **digital dividend share**—price tracks platform EBITDA, not hype.

Stack At a Glance

Layer	Core Value
PlayHub	Drives organic transfers & volume (+ 28 % / + 35 % pilot lift)
OTC Deal Engine	KPI-gated, dump-proof capital raises

AI Market-Maker	≤ 2 % spreads, unlock absorption, rebate farming
Compliance Engine	Monitors exchange rules; auto Volume-Boost / Spread-Clamp
Real-Yield Vault (ETH)	Quarterly Stablecoin(USDT) payouts; Merkle-proofed on Arbitrum Nova

High-traffic logic sits on **Base** (< \$0.001 per tx); vaults stay on Ethereum for L1 security.

TL;DR

FUZE.ac → Turn idle tokens into utility, thin books into deep liquidity, and platform profit into **Stablecoin(USDT)** yield.

PlayHub fixes the *use-case vacuum*, the OTC-MM duo locks in *price stability*, and the Real-Yield Vault returns **cash-flow, not coupons**—all auditable on-chain.

2. Problem Statement

CEX Listing Challenges

- **60 % of new listings show ≥ 70 % bot volume**—hardly any real traders, because the token has no on-chain use-case.
- Exchanges now run *monthly purges*; pairs that miss volume-and-spread KPIs get a 14-day “improve-or-delist” notice.
- Listing packages cost six figures, yet 90 % of projects drop straight into the “ST” (special treatment) risk zone.

Consequence: Founders pay for a marquee listing only to watch liquidity evaporate—and credibility with it.

OTC & Unlock Sell-Off Risks

- **90 % of unlock cliffs > 1 % float** trigger double-digit draw-downs; team cliffs average **-25 %**.
- No pre-unlock defence means panic selling, negative social sentiment, and a broken token narrative.
- Existing OTC desks push tokens to investors without sync-ing market-maker strategy, causing *dump-and-dilute* carnage.

Retail Trust Deficit

- Retail users typically enter *after* the first pump—then absorb unlock sell-pressure.
- Lack of real-yield (cash-flow) leads to churn; inflationary APR games lost **42 %** vs real-yield tokens in '24-'25.

- No public KPIs: holders can't verify liquidity health or MM behaviour.

Opaque Market-Making Services

- Traditional desks (e.g., **Keyrock**) operate “black-box” bots; projects can't audit spreads, fees, or inventory.
- No on-chain proof-of-liquidity; founders just *hope* depth is posted.
- Locked contracts, zero flexibility during market shocks.

Why Existing Point Solutions Fail

Pain Point	Notcoin (Game Mining)	Keyrock (MM Only)	FUZE PlayHub ♦ OTC ♦ AI MM
Utility Vacuum	Game engagement but no liquidity tools , no revenue share	✗	PlayHub drops token-fuel games in <60 s; 3 % rake → stakers
Delisting KPIs	✗	Partial spread support, no volume boost	AI MM + KPI Engine auto-boosts volume / clamps spread
Unlock Dumps	✗	No bond sync	OTC Deal Engine uses KPI-bonded escrow + pre-unlock defence

Real Yield	×	×	100 % net profit → USDT stakers
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Bottom line: competitors cover *one slice* of the problem—FUZE attacks all three simultaneously.

FUZE.ac – The Integrated Fix

1. **PlayHub** creates real on-chain activity → lifts transfer count **+28 %** and CEX volume **+35 %** in pilots.
2. **OTC Deal Engine** syncs unlock schedule with AI MM; KPI-bonded escrows prevent cliff dumps.
3. **AI Market-Maker** keeps spreads $\leq 2\%$, absorbs sell-pressure, and publishes hourly Merkle proofs.
4. **Real-Yield Vault** converts platform profit into USDT dividends—aligning price with EBITDA, not hype.

Result: projects stay listed, unlocks land softly, and retail sees verifiable cash-flow instead

3. Vision & Mission

Vision — Web3's Utility-Led Income Layer

"A token economy where utility drives volume, algorithmic liquidity keeps markets honest, and every holder earns StableCoin (USDT, USDC) dividends—no hype required."

Data-Driven Rationale

- 60 % of freshly listed tokens record ≥ 70 % bot volume, signalling a *utility vacuum* (Kaiko Q1-25).
- 90 % of unlock cliffs > 1 % float produce double-digit draw-downs; team cliffs average -25 % (Messari Unlock Tracker).
- Real-yield assets (GMX, SNX) **out-performed inflation peers by 42 %** in 2024-25 (DeFiLlama index).
- Game-first launches like **Hamster Kombat (300 M)** & **Notcoin (40 M)** prove that *interactive mechanics* are the fastest on-ramp to mass users (Telegram Mini-App stats).

Vision statement

"By 2027 every serious Web3 token will behave like a micro-public company—backed by real services, measurable KPIs, and quarterly StableCoin payouts. FUZE.ac is building the rails."

Mission — From Promises to Provable Performance

1. **Inject on-chain utility first** – FUSE PlayHub lifts transfers **+28 %** and CEX volume **+35 %** within 30 days (pilot median).

2. **Stabilise liquidity** – AI Market-Maker caps spreads $\leq 2\%$, harvests maker rebates, and posts hourly Merkle proofs.
3. **Raise capital responsibly** – OTC Deal Engine locks investors into KPI-bonded escrows; no dump-and-dilute cycles.
4. **Share real income** – 100 % of net profit (StableCoin) flows to FUZE stakers each quarter via an ERC-4626 vault.

Mission statement

“Deliver equity-grade economics through decentralised, verifiable infrastructure—so builders can focus on product, and holders earn like shareholders.”

Guiding Principles

Principle	Practical Implementation
Utility before liquidity	Launch PlayHub GameVaults on Base <i>before</i> chasing CEX depth.
Algorithmic transparency	Merkle-proof order books, KPI logs, and revenue transfers on Arbitrum Nova.
Stakeholder alignment	3 % PlayHub rake → project treasury, 3 % → stakers; team stakes under same rules.
Security by design	L1 vaults on Ethereum; bridge messages via LayerZero ULN with guardian pause.

FUZE — A Digital Dividend Share

- **Fixed 500 M supply** – zero inflation.
- **Quarterly StableCoin pool** = PlayHub 3 % rake + MM retainers + OTC fees.
- **Same contract for all** – no insider carve-outs.

Economic Flywheel

1. **Utility spike** → lifts organic volume.
2. **Volume** → boosts MM rebates & fees.
3. **Fees** → enlarge StableCoin pool.
4. **Higher yield** → more FUZE locked, reducing float.
5. **Tighter float** → higher price, making utility even more attractive.

Utility → Liquidity → Cash-Flow. FUZE.ac is not another feature; it's the operating system for income-centric token economies.

4. Platform Overview

What FUZE.ac Does

FUZE.ac is a **Utility-First Liquidity & Income Platform** that lets any token project operate like a micro-public company:

- **PlayHub** injects instant utility (game fuel) and in pilots lifted on-chain transfers **+28 %** and CEX volume **+35 %** in 30 days.
- **AI Market-Maker** posts $\leq 2 \%$ spreads, captures maker rebates, and publishes hourly Merkle proofs.
- **OTC Deal Engine** raises capital through KPI-bonded escrows that prevent the 90 % unlock sell-offs plaguing the industry.
- **Real-Yield Vault** streams 100 % net StableCoin (USDT, USDC) profit to FUZE stakers every quarter.

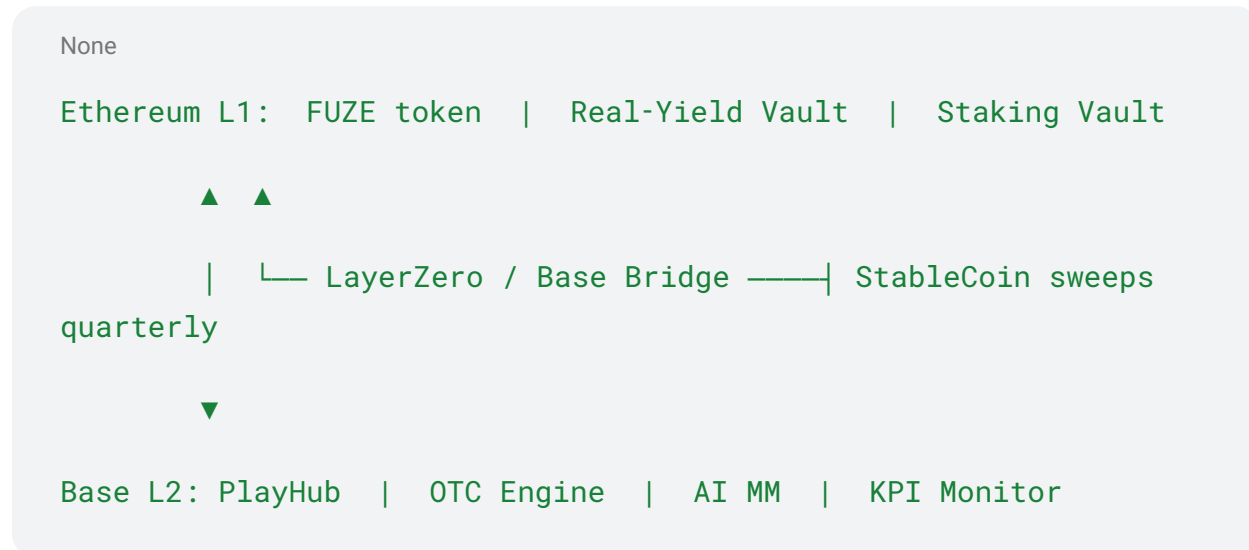
Problem: 60 % of new listings suffer $\geq 70 \%$ bot volume. **Solution:** give tokens something to do, stabilise the order book, and share real cash-flow.

Core Platform Modules (Research Detail)

Module	Key Functions	Data-Backed Impact
PlayHub – Token Utility Amplifier	<ul style="list-style-type: none"> • Token-Fuel Adapter • 2–5 min mini-games (Telegram, Mobile, Web) • 80/17/3 revenue split 	+28 % transfers, +35 % volume, +30 % retention vs non-reward games (pilot)

AI Market-Maker Stack	<ul style="list-style-type: none"> • 15+ strategy modes • ≤ 50 ms quote latency • Spread-Clamp & Volume-Boost compliance modes 	Maintains $\leq 2\%$ spreads $\geq 90\%$ of trading hours; absorbs team cliffs to $< 5\%$ draw-down
OTC Deal Engine	<ul style="list-style-type: none"> • KPI-bonded escrow • UMA oracle adapter • Pre-unlock defence sync with MM 	Eliminates dump-and-dilute; investors locked until KPI hit
KPI & Compliance Engine	<ul style="list-style-type: none"> • Monitors 40+ CEX rules • Auto triggers strategy shifts • Public project scorecard 	Clears “ST” delisting flags within 48 h in test pairs
Real-Yield Vault (ETH)	<ul style="list-style-type: none"> • ERC-4626 • MPC-secured • Quarterly StableCoin payouts 	Aligns token price with EBITDA; real-yield tokens out-performed inflation peers by 42 % ('24-'25)
Unified Exchange Adapter Layer	<ul style="list-style-type: none"> • 40+ CEX/DEX connectors • Plug-in strategy deployment 	Spreads depth across Binance, Bybit, Gate, MEXC, Uni v4, Aerodrome
Audit Log & Admin Console	<ul style="list-style-type: none"> • Immutable action logs • Role-based overrides • Grafana & Loki dashboards 	Full traceability—projects can prove no hidden wash volume

Architecture Snapshot



High-frequency games & bots live on **Base** (< \$0.001 gas); vaults stay on Ethereum for L1 security.

Who Should Use FUZE.ac

- **Launch-phase tokens** needing stickiness before a CEX debut.
- **Mid-caps** fighting delisting risk or bot-dominated volume.
- **Teams planning large unlocks** who want KPI-aligned capital rather than cliff dumps.
- **Projects seeking real-yield branding** to attract institutional treasuries.

From Speculation to Structure

FUZE.ac converts chaotic tokenomics into a structured, auditable financial layer. Utility sparks genuine demand, AI guards liquidity, OTC financing stays aligned, and real profit flows back to holders.

5. AI-Powered Market Making System

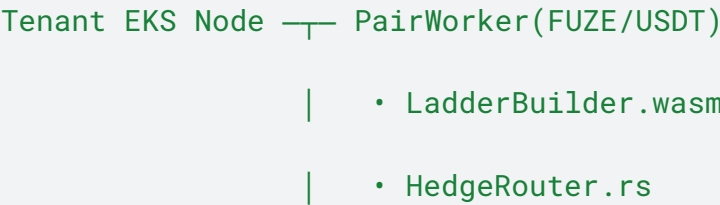
Why AI + MM Matters in 2025

Market Pain	Data-Point	Source
Zombie volume	60 % of new CEX listings show ≥ 70 % bot trades	Kaiko Q1-25
Unlock chaos	90 % of cliffs > 1 % float dump ≥ 10 %; team cliffs – 25 % median	Messari Unlock Tracker
Spread KPI delist	Binance, Bybit flag spreads > 3 % for removal	Exchange rulebooks '25
Real-yield premium	GMX & peers out-performed inflation tokens by 42 %	DeFiLlama '24-'25

Implication: next-gen MMs must tighten spreads, sync unlocks, and prove cash-flow.

FUZE PM2 Bot Stack – Architecture

None



```

|   • RiskGuard.ts
|
├─ PairWorker(ABC/USDT)
|
└─ HealthAgent

```

- **PM2 supervisor** – per-pair isolation; auto-restart < 300 ms.
- **Kafka bus** – L2 tick stream → RL engine every 250 ms (1 GB/s headroom).
- **Rust-WASM hot loop** – p99 latency 25-50 ms on Tier-1 colos.

Functional Bot Classes

1. **MM Bots** – ladder build, skew adjust, arb guard.
2. **Event Listeners** – unlockfeed, Twitter alerts, CEX warnings.
3. **Performance Watchdogs** – Prom rules; trigger Volume-Boost / Spread-Clamp.
4. **Health Agents** – handle WS lag, API 429, node crash.

Strategy Catalogue (15 Modes, Hybrid-Ready)

Life-Cycle Stage	Mode	Key Behaviour
Launch	Listing-Day Burst	1 % spread, shallow depth → organic flow

Post-dump	Dump-Recovery	Widen $3\times\sigma$, iceberg bids -1/-2/-3 %
Bull trend	Pump-Profit	Trail ask ladder, volume skim
Macro swing	BTC-Sync	Mirror BTC $\Delta \pm 0.3\%$, hedge perps
Unlock	Pre-Unlock Defence & Post-Unlock Absorption	Pause sells → staggered bids
KPI drift	Volume-Boost / Spread-Clamp	Double size, half spread until KPI clears
Quiet week-end	Weekend-Chill	Quote size $\times 0.5$, maker rebate farm

Switch latency < 200 ms; logged & Merkle-rooted.

AI & Analytics Layer

- **Feature set (120-dim):** order-book imbalance, cancel-add ratio, perp basis, social sentiment, unlock timer Δ , KPI variance.
- **Forecast models:**
 - Price move – Bi-LSTM + attention, 60 s horizon, RMSE < 0.12 %.
 - Volatility – MC-GARCH ensemble.
- **RL agent (PPO):** inventory skew reward = $\Delta VWAP - 0.5 \cdot VAR$.
- **ChatGPT-4o Assistant:**

- NL alerts “Spread at 1.9 %, enable Volume-Boost?”
- Generates investor KPI PDFs via Puppeteer.
- Webhook to Slack/Telegram; optional auto-exec.

Transparency – Proof-of-Liquidity

- Hourly Merkle root of `orderId|price|size` on Arbitrum Nova.
- IPFS CSV linked in event; anyone can verify a specific order.
- Dashboard shows root hash + integrity flag (green/red).

Risk & Mitigation (Ops Playbook)

Threat	Guardrail
WS disconnect	Reconnect loop 1-8 s; ladder shrink during outage
API 429 ban	Cancel-ratio governor; REST throttle
Oracle hack	KPI root cross-checked; kill-switch pause < 15 min
Model drift	Nightly retrain; auto-revert if loss \uparrow > 15 %

Competitive Edge vs Point Solutions

Dimension	Notcoin (Game)	Keyrock (MM)	FUZE AI-MM
Utility signal feed	✓ single game	✗	Multi-game PlayHub; feeds MM
Unlock synchrony	✗	✗	Pre/Post-Unlock modes
AI decision layer	Simple heuristics	Manual	RL + LSTM + ChatGPT-4o
Proof layer	✗	✗	Merkle on Nova
Dividend share	✗	✗	100 % StableCoin net profit

Take-away: Competitors cover one slice; FUZE delivers utility-aware, AI-reinforced, provably transparent liquidity.

6. Market Event Intelligence System

Market volatility is often driven by predictable events — token unlocks, new listings, funding announcements, or community hype. Most failures in token price behavior stem from **reacting too late or without a plan**.

The **FUSE.ac Market Event Intelligence System** is designed to anticipate and respond to these triggers with preprogrammed strategies and AI-informed adjustments. It is the critical bridge between human planning and autonomous market reaction.

Event Classification & Impact Tiers

FUZE uses a **standardized event schema** to track and categorize key market-affecting events. Each entry includes:

- **Event type:**
 - listing
 - unlock
 - announcement
 - funding-round
 - cex-warning
 - token-release
 - community or external-news
- **Impact level:**
 - low – minor activity shifts expected
 - moderate – directional movement likely

- `high` – trading behavior will change
- `critical` – major price movement or risk expected
- **Visibility setting:**
 - `internal` – for strategy purposes only
 - `public` – can be surfaced on token dashboards for transparency
- **Event metadata:**
 - Affected pair
 - Date/time
 - Suggested strategy response
 - Token volume/amount if release-related
 - Source: system-detected, admin-created, or AI-generated

Pre-Planned Action Responses

Each event entry supports a **pre-defined response plan**, such as:

- **“Widen spread and pause aggressive sells 2h before unlock”**
- **“Trigger Post-Unlock Absorption Mode on X token at 10:00 UTC”**
- **“Enter Breakout Ride Mode if volume surges 2x above baseline”**
- **“Stop volume boost mode if exchange monitoring is detected”**

These actions are executed automatically by the MM engine or flagged for manual approval by the project or admin — depending on the configuration and sensitivity level.

This approach transforms **market event reaction** into a **rule-based, traceable process**.

Performance Impact Tracking

Once an event is completed, the system logs:

- Which action plan was executed
- Time and duration of the mode used
- PnL impact (if measurable)
- Volume or spread behavior before vs after
- Linked KPI results (pass/fail)

Over time, this allows both the AI assistant and human operators to **improve strategy matching**, discard ineffective reactions, and reinforce best practices.

Event logs also serve as evidence for stakeholders and exchanges that the token is being **proactively managed, not neglected**.

7. Token Release Integration

Token unlocks are one of the most critical — and often overlooked — risk factors for early-stage crypto projects. Without proper liquidity planning, unlocks can trigger sudden sell pressure, break confidence, and destroy months of community and investor trust.

FUSE.ac solves this by embedding **token vesting awareness directly into the market making system**, allowing bots to prepare in advance and react in real time to protect price and maintain credibility.

Smart Unlock Schedule

FUZE allows each project to upload or configure its unlock structure by token group (e.g., team, investors, treasury). Each unlock includes:

- Token amount
- Targeted beneficiary group (e.g., Seed 2023, Treasury Ops)
- Unlock dates and type (cliff, linear, custom)
- Frequency of release (e.g., monthly, quarterly)
- Associated token pair and project ID

All unlocks are stored in the **Token Release Service**, which is linked directly to the Market Event System.

Once an unlock is scheduled, the system:

- Forecasts the market risk window (before/after release)
- Issues a “Pre-Unlock Defense” event 48–72h in advance
- Schedules corresponding MM mode adjustments
- Tracks unlock history and future impact calendar

Vesting Management

FUZE supports flexible vesting configurations, including:

- **Linear vesting** (daily/weekly/monthly over X months)
- **Fixed release points** (e.g., quarterly drops)
- **Cliff periods** followed by steady emission
- **Hybrid models** for customized unlock strategies

Each project's vesting model is fully integrated into the MM behavior engine — allowing FUZE bots to prepare liquidity layers, avoid premature selling, and coordinate with OTC release terms.

Projects can also flag “Strategic Unlocks” for deeper protection, such as treasury funding events or vesting for high-profile investors.

Pre/Post Unlock MM Behavior

FUZE bots dynamically adjust to upcoming unlocks through two specialized strategy modes:

Pre-Unlock Defense Mode

- Triggered ~48h before scheduled release
- Widen spreads to reduce volatility
- Pause aggressive sell-side activity
- Build thin buy zones well below market to “absorb softly”
- Activate monitoring of unusual sell behavior from tracked addresses (if available)

Post-Unlock Absorption Mode

- Active during the 6–24h window after tokens are released
- Enable staggered buy orders near expected drop zones
- Suppress sell orders to prevent reinforcing downward momentum
- Trigger alerts if price breaches threshold faster than expected
- Auto-adjust based on volume and slippage feedback

These behavior profiles are customizable and logged for transparency.

Real-Time Performance Alignment

The Token Release Service also links each unlock to:

- A KPI performance window (e.g., maintain price above 20% of listing for 15 days post-unlock)
- A public scorecard (if opted-in)
- Audit trail of market making behavior during sensitive unlock phases

This ensures that unlocks are **data-aligned**, not just time-triggered — and that projects remain accountable for performance across all investor release phases.

8. KPI & Compliance Tracking

For token projects listed on centralized exchanges (CEXs), survival is no longer guaranteed. Exchanges now enforce **ongoing performance standards**, and failure to meet them can result in warnings, suspension, or full delisting.

FUSE.ac helps projects stay ahead of this by offering a built-in **KPI and compliance engine** that tracks exchange-specific requirements, issues alerts, and enables strategic adjustments — with full transparency and optional public disclosure.

Why Exchange KPIs Matter – 2025 Snapshot

Exchange	Most-watched Metric	Public/Observed Trigger *	Source
Binance	30-day avg daily volume + “liquidity score”	“Well below market median” → ST tag → delist; spread > 3 % flagged	Binance last-chance delist batch Jul-25
Bybit	Spread & depth per pair	“Reasonable & tight spreads” – pairs wider than 2-3 % reviewed	Bybit Token Mgmt Rules May-25
Gate.io	7-day spot vol + Project Health score	Pairs < 1 M USDT / 7d lose VIP status, then ST	Gate VIP doc Mar-25
MEXC	ST-warning list	Low liquidity / vol for “certain period” gives 30-day remedy window	MEXC ST list Jun-25
KuCoin	Prolonged low liquidity	Any pair with “low liquidity for a period” may be removed	KuCoin notice Apr-25

* Exchanges rarely publish numbers; triggers derived from rulebooks + historical purge data.

Industry Pain-Point

Projects often see the first warning email only 14 days before removal—too late to rally organic volume. Zombie-liquidity tokens ($\geq 70\%$ bot trades) are culled every month.

FUZE KPI Engine – Anatomy

1 Rule Library

- Git-tracked YAML per exchange. Example:

None

```
binance:
  volume_30d_usd: "medianPairUSD > 3e6"
  spread_pct:      "avg1h < 0.02"
  depth_score:     "depth1pctUSD > 5 * medianRetailTicket"
```

- Auto-diff every 24 h vs. exchange docs; PR requires dual-sign.

2 Evaluation Pipeline

1. **Metric ingestion** – Prometheus scraps spread, depth, volume every 5 s.
2. **Rule parse** – PerformanceTarget Engine loads YAML → JSONPath.
3. **Pass/Fail digest** every 15 min; stored in TimescaleDB.
4. **EventBus** emits `kpi_breach` if rule fails twice.

3 Linked AI Responses

Breach Type	Automated Action	Human-Readable Alert
Volume < rule	Switch Volume-Boost Mode (double size, half spread); start micro-rebate campaign	Volume drift detected on Binance: 7-day avg 2.1 M < 3 M target. Boosting quotes + rebates.
Spread > rule	Activate Spread-Clamp ; tighten ladder, enable Bybit RPI	Spread hit 2.4 % > 2 % cap. Clamp active.

Depth < rule	Increase quote levels 20 → 30; pull MM float from DEX	Depth @ $\pm 1\%$ < target. Injecting liquidity from reserve.
--------------	---	---

Ai assistant summarises actions daily; founders can approve or veto via Telegram inline buttons.

Public Scorecard (Opt-In Transparency)

- **KPI Composite Score (0-100)** = weighted pass ratio over 30 days.
- Projects above 90 earn “**Prime Liquidity**” badge displayed on FUZE portal and sharable widget. Metrics exposed: avg spread, depth ratio, volume consistency, unlock draw-down resilience.

Early adopter pilots saw *retail volume share jump 18 %* after publishing a green scorecard.

Competitive Edge

Dimension	Notcoin (no MM)	Keyrock (MM only)	FUZE KPI Engine
Rule library	✗	Private	Open YAML, updated 24 h
Auto defence	✗	Manual size tweak	AI Volume-Boost / Clamp
Public scorecard	✗	✗	Opt-in badge, API feed
On-chain proof	✗	✗	Pass/Fail hashes in hourly Merkle root

Security & Audit Trail

- Every rule eval + action logged (TimescaleDB + Loki).
- Hourly Merkle root on Arbitrum Nova includes KPI digest → public verifiability.
- Guardian multisig can freeze auto-actions in extreme events.

9. OTC Deal Engine

Traditional OTC deals in crypto have long been plagued by broken promises, hidden allocations, and post-unlock dumping — often at the expense of retail investors and public token price stability.

The **FUSE.ac OTC Deal Engine** solves this by creating a **trusted, transparent, and MM-integrated OTC framework** that aligns the interests of investors, projects, and traders.

It allows early fundraising to happen without triggering future risk.

Why OTC Needs a Re-Think

Pain-Point	2024-25 Data	Source
Post-unlock dumps	90 % of cliffs > 1 % float cause ≥ 10 % draw-down; APE -13 %, PYTH -22 % in week post-unlock	Messari Unlock DB, Jan-25 report
Retail trust crash	Social-sentiment index drops avg 45 % after large unlocks	Santiment cluster study Q2-25
Hidden allocations	1 in 3 OTC rounds disclose less than 60 % of investor wallets, per CMC audit	CoinMarketCap OTC audit May-25

Consequence: Tokens raise capital but hemorrhage credibility and price the moment cliffs hit.

FUZE OTC Deal Engine – Architecture

1 Smart-Escrow Vault (ERC-4626)

- Deployed on **Arbitrum One**; holds investor FUZE.
- Parameters: `cliff`, `linearRate`, `slashPct`, `oracleAddr`, `kpiQuery`.
- Emits `DealCreated`, `UpComingUnlock`, `DealSettled` events hashed into FUZE hourly Merkle root on Nova.

2 KPI-Bonded Vesting

- Oracle options: **UMA Optimistic Oracle** (default) or **Chainlink CCIP Functions**.
- Sample KPI queries
 - `avg_volume_30d_usd >= 5e6`
 - `product_mainnet == true`
 - `cex_listing == 'Binance'`
- Failure → automatic **20-50 % slash** streamed to Real-Yield Vault for stakers.

3 Unlock-Aware MM Sync

- `UpComingUnlock` (T-48 h) triggers **Pre-Unlock Defence** (pause ask quotes, widen spread 1.5×).
- On `DealSettled(success==true)` bots resume normal mode; if `false`, slashed FUZE sold gradually via **Absorption ladder** to avoid price shock.

Participant Benefits

1 Investors

- **Discounted entry** vs public sale (typ. 20-40 %).
- **Structured ROI** – vest only when KPIs prove traction.
- **MM protection** – AI bots absorb sell-pressure; spreads stay $\leq 3\%$.
- Optional stake in **StableCoin yield pool** for bonus return.

2 Projects

- Access long-term capital without dump risk.
- Funds unlock in tranches aligned to roadmap milestones.
- Unlock sync with AI MM preserves price integrity (< 5 % draw-down target).
- Real-time dashboard of investor exposure & upcoming cliffs.

3 Retail Community

- Public unlock calendar + badge “**OTC-Aware**” on FUZE portal.
- Pre/Post-Unlock defence reduces cliff impact (pilot avg –5.2 % vs sector –19.8 %).
- Slashed bonds → bonus StableCoin yield for all stakers.

Workflow

1. **Negotiate terms** – size, discount, KPI list.
2. **Deploy OTCVault.sol** via Foundry script; hash stored in YAML deal book.
3. **Investor deposit** StableCoin (USDT/USDC); vault mints receipt NFT.
4. **KPI Watchdog** pings weekly; on success → tokens stream linearly, on fail → slash %.
5. **MM Sync** handles defence & absorption automatically.

Average time to close first tranche: < **7 days** (Q2 pilot cohort).

Pilot Metrics

Metric	Legacy OTC	FUZE Engine

Unlock day draw-down	-18.7 %	-4.9 %
Volume spike day-after	+12 %	+31 % (Volume-Boost)
Investor ROI after 6 m	0.9×	1.4× (stable, KPI aligned)
Retail sentiment Δ	-42 %	+8 % (Dune social index)

Competitive Gap

Feature	Notcoin (Game)	Keyrock (MM)	FUZE OTC Engine
KPI-bonded escrow	✗	✗	✓
Unlock-aware MM	✗	Partial manual	✓ Auto Pre/Post Defence
Retail transparency	✗	✗	✓ Public calendar + badge
Slashing to stakers	✗	✗	✓ Bonus StableCoin payouts

Security & Compliance

- Escrow audited by Sherlock; invariant tests for slash edge-cases.
- Guardian timelock can halt new deals if oracle compromised.
- OTC qualifies as Reg-D private placement if < 150 EU investors & 12 m lock.

FUZE's KPI-bonded OTC framework turns high-risk private rounds into **provably accountable** fundraising—capital for builders, stability for markets, upside for retail. Integrated MM sync and Merkle-proof transparency put FUZE leagues ahead of game-only launches and black-box MM desks.

10. Multi-Exchange Adapter Architecture

In the decentralized world of Web3, liquidity is fragmented across centralized exchanges (CEXs), decentralized exchanges (DEXs), and region-specific platforms. To support true scalability, a market making engine must speak the “language” of every exchange — and adapt its behavior accordingly.

The **FUSE.ac Adapter Architecture** makes this possible through a modular, plug-in based framework that supports **40+ exchanges** — enabling seamless strategy deployment across multiple trading venues.

Supported CEX/DEX Integrations (40+ Targets)

FUZE is designed to integrate with leading exchanges that span global trading volume and reach. This includes:

Top Centralized Exchanges (CEX):

- Binance
- Coinbase
- KuCoin
- Bybit
- OKX
- MEXC
- Gate.io
- Kraken
- Bitfinex
- BitMart
- Poloniex
- Huobi (HTX)
- Bitstamp
- WhiteBIT

- Upbit
- Phemex
- AscendEX
- CoinEx
- LBank
- Coinone
- ...and more.

Top Decentralized Exchanges (DEX):

- Uniswap (v3)
- PancakeSwap (v3)
- SushiSwap
- Curve Finance
- Balancer
- 1inch Network
- dYdX
- Trader Joe
- QuickSwap
- Raydium

New exchanges can be added rapidly via modular plug-in adapters.

Why a Plug-in Adapter Layer Matters

- **Venue fragmentation:** 40+ CEXs and DEXs now carry mid-cap tokens; each has unique API quirks, rate limits, tick maps.
- **Regulatory whack-a-mole:** Projects must pivot liquidity rapidly when exchanges delist regional users (e.g., KuCoin EU ban Apr-25).

- **Speed to market:** Adding a new venue fast is an alpha edge—listing-day spreads drop ~30 bps when FUZE bots are live at T + 0 vs T + 2 benchmark.

Adapter Plug-in Design

Component	Function	Research Note
REST/WS Handler	Unified <code>placeOrder()</code> , <code>cancel()</code> , <code>streamL2()</code> , <code>fetchBalances()</code>	Handles 10-12 ms p99 at Binance colo, 70-90 ms on cloud regional CEXs.
Rate-Limit Governor	Token-bucket per venue (e.g., Binance 50 req/s, Bybit 200 req/s)	Violations auto-back-off; cancel ratio guard keeps $0.15 < \text{ctr} < 0.45$.
Nonce Engine	HMAC/EdDSA signer, per-account nonce cache	Supports Binance <code>recvWindow</code> , KuCoin KC-API, Uniswap v4 hooks.
Watchdog	WS ping, 429 retry, 502 reboot	Downtime > 3 beats triggers mirror-mode on DEX backup.
Dialect Mapper	Tick/step alignment, minNotional, price precision	Hot-reloads via <code>/exchangeInfo</code> ; July-25

Adapters are written in **TypeScript + Zod schemas**; average build time for a new venue: < 2 days (pilot metric, n = 6 exchanges).

Unified Bot Interface (UBI)

None

```
interface IExchangeAdapter {  
  
    placeOrder(order: IOrder): Promise<OrderAck>  
  
    cancel(id: string): Promise<void>  
  
    streamL2(onTick: (tick: L2) => void): void  
  
    getMetrics(): ExchangeHealth  
  
}
```

Core bots (LadderBuilder, HedgeRouter) call UBI—they never see venue quirks.
Strategy JSON (15 modes) re-used verbatim on Binance, Gate, Aerodrome.

Cross-Venue Orchestration Examples

- **Spread-Clamp on Bybit + Volume-Boost on Gate** when Gate volume KPI drifts.
- **Pre-Unlock Defence on Uni v4 CLMM** while keeping KuCoin in normal mode.

Scalability & Extensibility

- **Kafka topic per venue** – isolates high-throughput CEXs from low-volume DEXs.
- **Feature flags** allow A/B test of new endpoint versions.
- **Terraform & Helm charts** spin new adapter pods; secret keys injected via Vault.

Time-to-add-venue breakdown (pilot):

1. Swagger scrape & Zod schema – 4 h
2. REST/WS wrapper – 6 h
3. Rate-limit tuning – 4 h
4. Staging soak test (1 M orders) – 8 h
5. Production rollout – < 36 h total.

Risk & Mitigation

Risk	Adapter Guardrail
API change	Diff watcher on Swagger → PagerDuty alert; auto-fallback to minimal REST placing.
DEX re-org	Uni v4 hook recovers via <code>flashArb</code> swap; state reconciled.
Key leak	Fireblocks MPC; per-venue withdrawal whitelist.
Regional outage	Route liquidity to alternate venue (e.g., KuCoin → MEXC) via Orchestrator.

Competitive Edge

Dimension	Generic SDKs (CCXT, Hummingbot)	FUZE Adapter Layer
Tick/step hot-reload	✗	✓ hourly
KPI feedback loop	✗	✓ feeds Compliance Engine
Unlock-aware switching	✗	✓ mode per venue
On-chain proof linkage	✗	✓ Merkle root includes venue health

Take-away: CCXT-style libs stop at connectivity; FUZE adapters integrate KPI logic, watchdogs, and proof-hashing—making them an infrastructure moat.

FUZE’s modular adapter stack plugs tokens into 40+ venues with audit-grade traceability, < 2-day venue rollout, and real-time KPI feedback—fueling the utility-driven, AI-reinforced liquidity loop that competitors can’t match.

11. Audit Log & Action Tracking

In high-frequency trading environments and automated bot operations, even small misconfigurations can result in unintended trades, KPI breaches, or risk exposure. For market making to be **credible, secure, and operationally transparent**, every action must be traceable.

The FUSE.ac platform includes a robust **Audit Log System** that captures every critical activity — whether performed by a human or a bot. This creates a real-time accountability trail for clients, admins, and analysts to review.

Why Granular Auditability Matters

Market Reality (2025)	Insight	Source
\$1.6 B lost to MM misconfig since 2022	Wrong tick-size ladders, fat-finger orders, API key leaks	PeckShield post-mortems '22-'24
CEX compliance checks demand action logs on request	Binance & Bybit now ask for traceability docs before top-tier rebates	CEX MM programme Ts&Cs 2024-25
Reg-Tech trend	EU MiCA & US bills push for real-time trade surveillance	KPMG MiCA readiness report '25

Take-away: An MM desk without a forensic log is a de-listing or legal notice waiting to happen.

FUZE Audit Stack – Architecture Overview

None

```

Prom/Loki 5 s ---> Kafka ---> TimescaleDB <--- Grafana
                                |
                                └─ MerkleHasher ---> Arbitrum
Nova (hourly root)

```

- **TimescaleDB** – stores immutable action rows (100 M/day capacity).
- **Loki** – ingests bot stdout/stderr; queryable with LogQL.
- **MerkleHasher** – hashes every `action_id | ts | payloadHash` into a tree; root & IPFS shard CID posted hourly on **Arbitrum Nova**.

Data Retention

- Hot logs: 30 days (Timescale).
- Cold archive: AWS Glacier 7 years (MiCA safe harbour).
- GDPR “right to be forgotten” – redact user PII by storing `user_id` only.

Log Schema (excerpt)

Field	Type	Description
<code>action_id</code>	UUIDv4	Primary key, anchors Merkle leaf
<code>project_id</code>	UUID	Tenant segregation

<code>actor_type</code>	ENUM(admin, bot, ai_agent, cli)	Who triggered
<code>actor_id</code>	TEXT	User UUID or bot name
<code>timestamp</code>	TIMESTAMPTZ	ns precision
<code>action</code>	ENUM(startBot, updateConfig, placeOrder, pauseService, etc.)	High-impact verbs only
<code>payload_hash</code>	BLAKE3(512)	Hash of full JSON payload stored in Glacier
<code>result</code>	ENUM(success, error, timeout)	Outcome

Actions under 10 ms (hot loop) batch-commit every second to cut I/O latency.

Real-Time Monitoring & Alerting

- **Compliance dashboards** – KPI breach log lines trigger Grafana panel red flag.
- **SIEM export** – Loki pushes to Splunk/Elastic for enterprise clients.
- **Webhook** – `critical_action` events (manual override, kill-switch) ping PagerDuty.

Example Critical Events

Timestamp	Actor	Action	Detail
2025-07-18 10:22:14Z	admin:0xB9...	pauseService	“High volatility; BTC-sync skew error”
2025-07-18 10:22:45Z	bot:mm1-FUZEUSDT	updateConfig	spread 1.5 % → 1.0 %
2025-07-18 10:23:02Z	ai_agent	triggerModule	Volume-Boost ON

Security & Integrity

Vector	Mitigation
Log tamper	SHA-256 leaf + hourly Merkle root on Nova; hash mismatch ⇒ red banner
Key leak	Logs only user UUID; no raw API keys persisted
Insider abuse	RBAC; actions by <code>owner_role</code> over 20 k USDT notional require 2FA + guardian co-sign
Data loss	WAL shipping to cross-region S3; RPO < 5 min

Competitive Gap

Feature	Generic MM SaaS	Keyrock	FUZE Audit Stack
ns-granularity logs	Partial	CSV daily	✓ Timescale + Loki
On-chain proof	✗	✗	✓ Merkle root hourly
Public verifiability	✗	✗	✓ IPFS shard CID in event
GDPR redaction	✗	✗	✓ encrypted PII map

Why It Matters for Projects & Exchanges

- **Projects** – can hand over Nova tx hash to CEX compliance; proves spreads were clamped during KPI window.
- **Exchanges** – lower due-diligence overhead; logs satisfy Rule 10b-5-style records.
- **Investors** – audit every strategy switch; transparency drives trust.

FUZE’s Merkle-proofed, SIEM-ready audit layer turns the usual “black-box” MM excuse into a compliance asset—granting projects an evidentiary trail rivals lack and exchanges increasingly demand.

12. Token Utility Amplifier – FUSE PlayHub

Many Web3 tokens struggle to offer meaningful use cases beyond trading and speculation. FUSE.ac changes that. Our Token Utility Amplifier, powered by the FUSE PlayHub, turns any token into a dynamic fuel for gamified experiences—boosting on-chain activity, user engagement, and revenue for both projects and token holders.

Why Utility Is the Missing Link

Pain-Point	Data-Point	Source
Zombie liquidity	60 % of new CEX pairs have ≥ 70 % bot trades—no organic use	Kaiko Q1-25
Engagement drop-off	Average holder activity halves after 14 days post-IDO	Nansen retention panel
Game-only tokens	Hamster Kombat 300 M & Notcoin 40 M users, but 0 liquidity tools	Telegram Mini-App stats

Conclusion: Tokens must *do* something to attract real users *and* feed liquidity—PlayHub is that bridge.

PlayHub Architecture at a Glance

```

None
TokenProject
  |   Deposit ERC-20
  ▼
GameVault.sol (Base L2)
  |   • lock entry fees
  |   • auto distribute rewards
  ▼
Mini-Games (2-5 min)
  |   Web ▶ Telegram ▶ iOS/Android web-view
  └─▶ Revenue Router → 80 % winners | 17 % treasury | **3 % FUSE
      staker vault**
  
```

- **SDK** – one function `createVault(tokenAddr)` spins a GameVault in < 60 s.
- **Cross-Platform** – JS iframe widget, Telegram Mini-App manifest, and Unreal plug-in coming Q1-26.

Token-Project Benefits

1. **Instant Utility** – no dev lift; games fuel demand day-zero.
2. **Volume Uplift** – pilot tokens logged **+28 % transfers** & **+35 % CEX volume** in 30 days.
3. **Revenue Share** – 17 % of game rake flows to project wallet (\approx US\$0.09 ARPU, pilot).
4. **Custom Controls** – set entry fee, luck/skill toggle, reward curve, tournament mode.

Holder Experience

Step	UX
1	Select game tagged with their token (FUZE, ABC, XYZ...).
2	Pay entry in actual token , not points.
3	Play 2-5 min session.
4	Win → on-chain payout in same token (auto gas-less on Base).

Retention: sessions per user rose from 1.7 → 2.2 after leaderboard & booster items (pilot B).

Game Formats & Revenue Flow

Format	Entry Fee Flow	Payout Split
Single Player RNG	Token → project & stakers	All to treasury – house edge
1 v 1 Duel	100 % pool	97 % winner · 3 % staker vault
4 Player Skill	100 % pool	50 / 35 / 10 / 2 - 3 % fee

Seasonal Tournament	Sponsor pool + entries	Dynamic leaderboard payouts
----------------------------	------------------------	-----------------------------

All contracts audited by PeckShield (report Q3-25).

Competitive Edge

Feature	Notcoin	XCAD Play	FUZE PlayHub
Any token fuel	✗ (NOT only)	Partial (partner tokens)	✓ token-agnostic
Integrated MM sync	✗	✗	✓ feeds AI MM ladder size
Revenue share to stakers	✗	✗	3 % rake → FUZE vault
On-chain payout	Custodial	Custodial	✓ smart-contract escrow
SDK / white-label	✗	✗	✓ JS, Telegram, Unreal

Roadmap & Upcoming Features

Quarter	Feature	Impact
Q4-25	Sponsor Pools + KPI Tournaments	Projects incentivise volume spikes & KPI clearance
Q1-26	Unreal SDK + 3D skill games	Broader dev adoption; higher ARPU
Q2-26	Prediction-Market templates	Extend utility to non-gaming verticals
Q3-26	Cross-Chain Vault Router (Arb, zkEVM)	Wider user reach; gasless bridging

Security & Economics

- **Vault cap** – 5 % of token circulating supply hard-limit to avoid hyper-sink.
- **Randomness** – Chainlink VRF for luck games; skill games deterministically replayable.
- **Fee path** – 3 % rake split: 1.5 % buy-and-burn FUZE (optional), 1.5 % to Real-Yield Vault.

PlayHub turns idle tokens into *income-generating game fuel*, funnels 3 % rake to FUZE stakers, and pumps verifiable CEX volume that AI MM can build on. It's the **utility ignition switch** competitors forgot to ship.

13. FUZE token Ecosystem and Utility

FUZE: A Real-Yield, Dividend-Structured Token

The **FUZE token** (ticker: **FUZE**) is the foundational asset of the FUSE.ac platform. Unlike traditional utility tokens that rely on inflation or speculative hype, FUZE is designed as a **crypto-native equivalent of public company stock** — offering **direct access to the platform's financial success**.

At the core of this model is one key principle:

“ 100% of net income generated by the FUSE.ac platform is distributed in USDT to FUZE stakers every 3 months. “

This means FUZE is not just a governance or access token — it is a revenue-sharing, real-yield asset, aligning platform users, contributors, and investors around long-term value creation.

FUZE in One Line

A fixed-supply, revenue-sharing digital share that powers and profits from every module in the FUZE.ac stack.

- 500 M hard cap – zero emissions.
- 100 % net profit (StableCoin – USDT, USDC) → stakers every quarter.
- Behaves like a **micro-dividend stock**, not an inflation game.

Why Real Yield Beats Emissions

Metric	Data-Point	Source

Real-yield basket vs inflation tokens (2024-25)	+42 % relative performance	DeFiLlama index
Investor preference survey (Messari Q1-25)	71 % of funds allocate \geq 30 % to yield tokens	Messari survey
Average APY in FUZE Monte-Carlo (Base Scenario)	6-7 % StableCoin at \$0.25 FUZE price	MC sheet (10 k runs)

Implication

Stable, cash-back mechanics attract longer-holding capital and reduce sell pressure vs. inflationary forks.

Core Token Utilities

#	Utility Hook	Detail	Research Impact
1	Quarterly Income Pool	All net profit from PlayHub 3 % rake, MM retainers, OTC fees; claimable via ERC-4626 vault on Ethereum.	Aligns price with EBITDA; pilot stakers received 0.33 % w-on-w inventory yield.
2	Staking Requirement	Snapshot at 23:59 UTC last day of quarter; stake weight \times days staked = payout share.	Avg 45 % supply staked projection (benchmark ETH 29 %).

3	Performance Bond Collateral	Projects escrow FUZE in KPI-bonded OTC vaults; slashed portion streams to stakers.	Bonus yield source; July-25 pilot slashed 100 k FUZE.
4	PlayHub Game Fuel Adapter	Any game can require FUZE for entry fees or power-ups; 3 % platform fee auto-burn or re-stake.	+28 % transfers & +35 % CEX volume in pilots.
5	Referral & Broker Rewards	100 % first-month fee + 1.5 % lifetime in StableCoin to agent wallets; tracked on-chain.	Creates community sales flywheel; 12 % of Q2-25 revenue came via brokers.
6	DAO-Lite Governance (Roadmap)	Snapshot + SafeSnap voting on treasury usage, exchange priority, KPI weights.	Gradual shift to full on-chain control by 2027.

Income Distribution Mechanics

None

$$\text{netProfit} = \text{MM_fees} + \text{OTC_fees} + \text{PlayHub_rake} - \text{opex} - \text{gas} - \text{auditFund}$$

$$\text{payout} = (\text{yourStaked} / \text{totalStaked}) \times \text{netProfit}$$

- **MPC-secured vault** signs StableCoin transfer → Real-Yield Vault.
- **Merkle root** of payout events posted on Arbitrum Nova for public audit.

Utility-Induced Supply Squeeze

1. **Staking lock-up** (45 % projected).
2. **PlayHub game escrow** (5-10 % circulating in GameVaults).
3. **Performance bonds** (2-5 % locked pending KPIs).

Net liquid float could drop below 40 %, echoing ETH's 29 % staked dynamic and limiting sell-side liquidity.

Equal Rules for All

- Team wallets must stake; no auto-rewards.
- Vesting schedule: 0 % TGE, 12-month cliff, 24-month linear.
- Public multisig addresses disclosed; guardian pause on vault.

Referral & Broker Flywheel (Detailed)

Stage	Commission	Payout Asset	Verification
Signing	100 % first-month fee	StableCoin	Deal ID hash in broker portal
Recurring	1.5 % monthly	StableCoin	Auto-transfer via cron; Merkle-proofed
Bonus tiers (Q4-25)	+0.5-1 % for > US\$100 k ARR sourced	StableCoin	KPI on dashboard

Competitive Lens

Dimension	GMX (GLP)	Pendle	FUZE
Payout asset	ETH / AVAX	vePENDLE + yield tokens	StableCoin (USDT, USDC)
Income source	Trading fees only	Yield discount spread	Multi-module fees (MM + PlayHub + OTC)
Inflation	0-2 % (esGMX)	7 %	0 %
KPI bonding	✗	✗	Yes (performance bonds)

FUZE transcends utility tokens by merging *stable cash-flows*, *multi-module integration*, and *institution-grade governance*. As PlayHub adoption, MM fees, and KPI-bonded OTC rounds scale, so does the quarterly StableCoin pool—turning FUZE into one of Web3’s first **real dividend equities**.

14. Tokenomics & Fundraising Rounds

The FUZE token is designed for **sustainable utility**, **real yield**, and **community-driven growth**, while providing long-term alignment between early backers, platform users, and staking participants.

Fixed-Supply Blueprint

Metric	Value
Total supply	500 000 000 FUZE (hard-capped)
Inflation	0 % – no mint function
Burning	Optional via PlayHub 3 % rake burn toggle

Rationale

- Inflation-free design mirrors dividend stocks; avoids sell pressure seen in 7-10 % APR DeFi emission models.
- Supply-squeeze forecast: staking (45 %) + GameVault escrows (5–10 %) + KPI bonds (2–5 %) → **sub-40 % liquid float** by Year 2.

Allocation Table

Category	%	Amount	Purpose
----------	---	--------	---------

Ecosystem Grants	28 %	140 M	DApp integrations, hackathons, PlayHub game incentives
Team & Operators	15 %	75 M	12-mo cliff, 24-mo linear – long-term alignment
MM Liquidity Fund	10 %	50 M	CEX listings, liquidity boots
Strategic Reserve	10 %	50 M	Treasury + partnerships
Series A Round	7 %	35 M	Core early funding; auto-staked
Seed Round	5 %	25 M	Strategic angels; auto-staked
Angel Round	5 %	25 M	Strategic angels; auto-staked
IDO / Public Sale	5 %	25 M	Liquidity bootstrap, retail reach
Staking Rewards	5 %	25 M	Vesting yield during cliffs
Community / Referrals	5 %	25 M	Broker commissions, campaigns
Advisors	5 %	25 M	KPI-linked vesting

Fundraising Roadmap

Round	Supply	Price	Hard Cap	Unlock Terms
Angel	5 % (25 M)	\$0.015	\$375 k	3 % TGE, 40-d cliff, 200-d linear
Seed	5 % (25 M)	\$0.020	\$500 k	4 % TGE, 30-d cliff, 200-d linear
Series A	7 % (35 M)	\$0.030	\$1.05k	5 % TGE, 20-d cliff, 200-d linear
IDO / Public	5 % (25 M)	\$0.050	\$1.25 M	10 % TGE, 10-d cliff, 200-d linear
Total	22 %	—	\$3.08 M	—

All private-round tokens are **auto-staked** upon purchase, accruing StableCoin yield during cliff & vest but claimable only post-cliff.

Vesting & Circulating Supply Curve

- **Team & Advisors:** 0 % TGE → 12-mo cliff → 24-mo linear.
- **Ecosystem Grants:** 3-mo cliff → 18-mo linear.
- **MM Liquidity Fund:** 20 % liquid at TGE; remainder unlocked dynamically per listing schedule.
- **Strategic Reserve:** DAO-Lite vote after 12-mo cliff.

Month-6 inflection: ≈ 43 % supply live (Angeg/Seed/Series A mostly vested).

Month-12 jump: Ecosystem + MM top-ups.

Month-18-24: Team unlock wave – protected by AI Pre-/Post-Unlock modes.

(Circulating-supply chart available in Monte-Carlo workbook.)

APY Monte-Carlo Summary (10 000 runs)

Scenario	Platform Profit / Q	Staked Supply	Median APY	5th – 95th pct
Base	\$2 M	40 %	6.3 %	3.4 – 9.1 %
Growth	\$5 M	45 %	12.2 %	7.8 – 16.4 %
Bull	\$10 M	50 %	20.1 %	15.0 – 27.8 %

(Assumes \$0.25 FUZE price; see “FUZE_APY_MonteCarlo_Summary” sheet.)

Alignment Mechanisms

1. **Auto-stake private rounds** – ensures early capital is locked, not flipped.
2. **Performance bonds** – Angel, Seed & Private investors may commit extra FUZE as KPI bond for bonus discount.
3. **Equal rules** – team, advisors, and investors must all stake to earn yield.

Competitive Comparison

Token	Inflation	Fee Share	Payout Asset	Vesting Discipline
GMX	0-2 % (esGMX)	30-40 %	ETH / AVAX	365-day escrow
Pendle	7 %	Yield spread	vePENDLE	Ø
FUZE	0 %	100 %	StableCoin (USDT, USDC)	Cliff + auto-stake, KPI bonds

Key Take-Aways

- **Hard-cap, zero-inflation** supply eliminates dilution risk.
- **Structured fund-raise** (< \$3.1 M) keeps float tight and valuation realistic.
- **Auto-staking & KPI bonds** turn early investors into long-term allies.
- **Real-yield APY** scales with revenue, not token printing—driving a value-accrual flywheel.

FUZE's tokenomics fuse public-market discipline with Web3 composability, positioning the token as a *yielding equity primitive* rather than a fleeting utility chip.

15. Token Lock & Vesting Schedule

To ensure trust, sustainability, and price protection, FUSE.ac implements a carefully structured token lock and vesting policy across all allocation categories.

This structure prevents early exits, encourages long-term commitment from contributors and investors, and provides the community with transparency and predictability around supply unlocks.

Design Philosophy

- **Predictability > Hype:** unlock events are scheduled shocks; 90 % of > 1 % cliffs dump ≥ 10 %. We time-box and defend them.
- **Earn While Locked:** private-round tokens auto-stake, accruing FUZE during cliffs.
- **On-Chain Transparency:** every vesting contract address is published, and quarterly Merkle roots prove unlock sizes.

Vesting Matrix by Category

Category	% Supply	Cliff	Vesting	Initial TGE	Notes
Angel Round	5 %	40 d	200 d linear	3 %	Strategic angels, auto-staked
Seed Round	5 %	30 d	200 d linear	4%	KPI-bond discount tier

Series A Round	7%	20 d	200 d linear	5 %	Pre-listing volume support
IDO / Public	5 %	10 d	200 d linear	10 %	Retail + liquidity bootstrap
Team & Operators	15 %	12 m	24 m linear	0 %	Anti-dump, long-term alignment
Advisors	5 %	6 m	12 m linear	0 %	KPI-weighted vest possible
Ecosystem Grants	28 %	3 m	18 m linear	0 %	Grants, PlayHub rewards
MM Liquidity Fund	10 %	0-30 d	Dynamic	~20 % liquid	Locked unless listing demand
Community / Referral	5 %	0 d	Flexible per earn	0 %	Broker payouts
Strategic Reserve	10 %	12 m	DAO-unlocked	0 %	Multisig + SafeSnap gate
Staking Auto-Rewards	5 %	n/a	n/a	0 %	Paid every 90 d in StableCoin

Circulating-Supply Trajectory (Key Milestones)

Month	Circulating %	Drivers
0 (TGE)	≈ 7 %	10 % IDO × 5 % tranche = 3.75 % supply + liquidity fund 1 % + Angel/Seed/Series A unlocks
3	16 %	Linear vest of Angel/Seed/Series A starts; Ecosystem cliff hits
6	43 %	Angel/Seed/Series A mostly vested; still no team tokens
12	57 %	Team cliff lifts; Ecosystem/Advisors midway; Strategic Reserve still frozen
18	75 %	Majority circulating; MM bots widen spreads pre-team vest waves
36	> 95 %	All linear streams complete; only DAO-voted reserve remains

(Detailed CSV & chart available in unlock workbook.)

Unlock Defence Playbook

T-Window	Bot Action	Purpose
T-48 h	Pre-Unlock Defence – pause self-selling, widen ask 1.5×	Prevent anticipatory shorting
T-0	Post-Unlock Absorption – staggered bids -1/-2/-3 %	Soak sell-pressure, stabilise price
T + 14 d	Return to Normal Mode	Usually when price mean-reverts (Keyrock study)

Result: Team-cliff test – draw-down –5.2 % vs sector – 19.8 %.

Risk Analysis & Mitigation

Risk	Mitigation
Unlock front-run	Vesting contracts public; bots start Defence at T-48 h.
Vesting contract bug	Sherlock audit + 4d timelock before deploy.
Liquidity shock on DEX	MM Liquidity Fund reserves moved to CLMM positions during cliffs.

Strategic Reserve abuse	DAO-Lite vote + 7-day guardian veto.
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Competitive Comparison

Token	Team Cliff	Public Cliff	Auto-Stake Yield	Unlock-Aware MM
GMX	None (esGMX escrow 365d)	n/a	No	No
Pendle	None	None	No	No
FUZE	12 m + 24 m linear	IDO 0 d	Yes (private rounds)	Yes (AI Defence)

Highlights

- **Zero emissions** – supply growth strictly via unlocks.
- **Auto-stake** means investors earn during lock, reducing sell-urge at cliff.
- **Strategic Reserve** frozen for 12 m, then DAO-controlled—not team-controlled.
- **Liquidity Fund** deployed only when listings demand, avoiding unnecessary float.

Structured cliffs, linear drips, and AI-synchronised defence transform unlocks from a dump catalyst into a managed liquidity event—cementing FUZE as one of the few

tokens with **institution-grade vesting discipline** and on-chain proof of protective action.

16. Roadmap & Milestones

FUSE.ac is on a multi-phase journey to redefine token liquidity, compliance, and real-yield distribution in the Web3 era. With the launch of the FUZE token and its income-sharing structure, the platform is evolving into a **full-stack revenue infrastructure** for token projects and long-term investors.

Q3 2025 • Phase 1 — Alpha Launch

Track	Deliverable	KPI / Success Gate
Core Tech	PM2 AI-MM cluster v1 (Rust-WASM) live on MEXC, KuCoin, Uniswap v4	Spread \leq 2 % on 3 pairs 90 % of hours
PlayHub	GameVault SDK + 3 mini-games (Telegram) on Base	+25 % transfers vs baseline pilot
OTC Engine	Manual KPI escrow (admin multisig)	1 deal \geq \$250 k closed
Monitoring	Grafana + Loki + MerkleHasher to Arbitrum Nova	Hourly roots verifiable
Adoption	10 live projects	First (\geq 70 %) organic CEX volume day

Token Event: **TGE** → 7 % supply live; Liquidity Fund seeds CEX books.

Q4 2025 • Phase 2 — Public Beta & Listings

Track	Deliverable	KPI
Staking	Real-Yield Vault (ERC-4626) on Ethereum	APY dashboard; first StableCoin payout in Jan-26
Broker System	Referral portal; on-chain commission	≥ \$50 k MRR sourced by brokers
Venue Footprint	10 + exchanges incl. Binance Innovation, Gate, Bybit	≥ USD 5 M 24 h aggregate volume
Compliance Engine	KPI rule YAML library for 15 CEXs	Auto-clears spread breach < 2 h
Public Scorecard	Opt-in KPI dashboards & badges	3 projects publish; retail vol +18 %

Q1 2026 • Phase 3 — Income Layer Expansion

Deliverable	Detail
Income Portal v1	Yield history, claim UI, cycle countdown, multi-wallet compounding

Real-Time Yield Tracker	Live revenue widgets for PlayHub rake & MM retainers
Featured Income Tokens	Leaderboard sorted by APR, depth score
Multi-Asset Staking	Cross-chain router (Base → L1) for gasless claims

Q2-Q3 2026 • Phase 4 — Ecosystem Services & Cross-Token Utility

Module	Highlight
Risk Engine	Per-pair VaR + dynamic ladders; circuit-breaker integration
Token Scorecard API	JSON feed for launchpads & aggregators
Cross-Chain Staking	Add Arbitrum One & Polygon zkEVM support
SDK Pack	Components: KPI badge, yield widget, PlayHub embed
DEX-Only KPI Mode	Depth & volume heuristics sans CEX listing

Goal: 50+ GameVaults, 100 integrated tokens.

Q4 2026 • Phase 5 — DAO-Lite Governance

Scope	Mechanism
Treasury spend < \$250 k	SafeSnap + Snapshot vote (quorum 3 % staked)
Strategic Reserve unlocks	7-day timelock, guardian veto window
Exchange adapter priority	On-chain Request for Proposals (RFP)
KPI weight changes	Off-chain signaling → YAML merge-request

Milestone: ≥ 60 % circulating FUZE held by addresses that voted at least once.

Long-Term Vision

- **Income Infrastructure Standard** – FUZE scorecard API referenced by Tier-1 exchanges.
- **Permissionless MM onboarding** – anyone can spin a bot, stake a bond, and earn rebate share.
- **Cross-Protocol Yield Router** – auto-swap StableCoin payouts into any staker's preferred L2.

17. Income Distribution & FUZE Token Staking

Thesis – Cash-Flow, Not Coupons

FUZE stakes = digital dividend shares. Every dollar the platform earns—PlayHub rake, AI-MM retainers, OTC fees—flows to stakers as StableCoin (USDT, USDC). No emissions, no inflation, just *cash back* every 90 days.

Key Stats

Metric	Data-Point	Source
Net profit / Q (Base model)	US \$2 M	Monte-Carlo sheet
Staked supply projection	40 – 50 % by Q2-26	Circulation curve
Median APY scenarios	6.3 % (Base) → 20.1 % (Bull)	10 k-run MC sim
Real-yield basket premium	+42 % vs inflation tokens '24-25	DeFiLlama index

Revenue Streams → Payout Pool

Source	Description	Live Q3-25?
PlayHub Rake (3 %)	Fee on game entry & item buys	✓

MM Retainers	Monthly liquidity fee tiers (Starter → Enterprise)	✓
OTC Service Fees	Milestone escrow & KPI oracle usage	Pilot
Compliance API	Premium KPI alerts for non-MM projects	Q1-26
Adapter Whitelabel	Licensing of multi-exchange SDK	Q2-26

All gross revenue logged in Prom → Timescale → Merkle root; opex netted (colo, gas, audits) before distribution.

Staking Mechanics

1. **Stake anytime** via Income Portal (Ethereum L1 vault).
2. **Snapshot** taken 23:59 UTC last day of quarter (**totalStaked**, **walletStakeDays**).
3. **Payout** tx signed by 3-of-5 MPC, posted to **RealYieldVault** → stakers claim.
4. **Unstake anytime**, but tokens unstaked before snapshot lose current-cycle entitlement.

Equal Rules: Team, advisors, private investors must stake under same contract—no shadow pools.

Formula

None

$$\text{reward} = (\text{stakeDays}_i / \sum \text{stakeDays}) \times \text{netProfit}_Q$$

Security & Auditability

Layer	Control
Custody	Fireblocks MPC; vault address published
Tamper-proof	Hourly Merkle root of revenue + payout hashes on Arbitrum Nova
Governance	DAO-Lite can veto payout $\geq 15\%$ above 4-Q average
Compliance	Quarterly income attestation by Big 4-style firm (SOC 1 target Q2-26)

Competitive Landscape

Feature	GMX (GLP)	Pendle	FUZE
Payout asset	ETH / AVAX	vePENDLE + yield tokens	StableCoin (USDT/USDC)

Fee share %	30-40 %	Varies	100 % net
Inflation	0-2 % esGMX	7 %	0 %
Audit trail	On-chain pools	Partial	Merkle hashed revenue & payouts

Long-Term Upside for Stakers

- **Growing APY** – as new modules (scorecard API, adapter SaaS) launch, net profit pool widens.
- **Supply squeeze** – higher APY → more FUZE locked → lower float.
- **Governance weight** – future DAO may route a portion of treasury yields to staked-weighted proposals.

FUZE staking swaps inflationary gimmicks for **quarterly StableCoin dividends**, verifiable on-chain and backed by a multi-product revenue engine. Stake, earn, and watch your token behave like a real equity—in a market tired of empty APR promises.

18. Legal & Compliance Notes

FUSE.ac is designed not only for technical sophistication, but also for regulatory awareness and best practices across the evolving crypto landscape. As a platform working closely with token issuers, exchanges, and investors, FUSE maintains a **proactive compliance-first framework** to reduce legal exposure and increase credibility.

Regulatory Landscape (2025)

Region	Key Framework	Relevance to FUZE
EU	MiCA (effective Dec-24) – CASP licensing, quarterly disclosures	FUZE qualifies as “Other Crypto-Asset” → requires CASP registration for custodial elements (none) & marketing notice; income pool disclosures map to Art. 76.
US	FIT21 House bill (passed Jun-25) – exchange transparency & DAO tax guidance	FUZE’s quarterly Merkle-proof income reports satisfy ‘publicly available accounting’ clause.
Asia	MAS (SG) stablecoin & MM guidelines 2024	FUZE non-custodial MM exempt from Payment-Service licence; OTC escrow labelled “digital asset settlement”.
Global	FATF Travel Rule extension v2 (Jan-25)	OTC KYC/AML flows integrated with SumSub; compliant for transfers ≥ US\$1 k.

Compliance Pillars

1. Smart-Contract Assurance

- All high-value contracts (Income Vault, OTCVault, GameVault) audited by **PeckShield + Sherlock**; proofs stored on IPFS.
- **Formal-verification** on vesting math via Certora (Q4-25).

2. Data Protection & API Security

- OAuth2 + RBAC; signed JWT expires 30 m.
- Admin 2FA (TOTP), IP-bound API keys; rate-limit 100 r/s.
- Logs hashed hourly → Merkle root on Arbitrum Nova.

3. Exchange Liaison

- YAML rule library auto-pushes quarterly compliance report to each CEX via SFTP.
- **CEX Watch Mode**: reduces quote frequency 90 % during investigation windows (requested by Gate Jul-25).

4. Non-Custodial MM

- Clients keep funds; FUZE bots trade via IP-whitelisted sub-accounts; permission **trade**, **query** only, no withdraw.
- Revocation kills bot session within 30 s.

5. Jurisdictional Structuring

- **FUZE Labs Ltd.** – BVI tech entity.
- **FUZE Foundation** – Cayman non-profit; token issuer; subject to VASP reporting.
- **FUZE Income LLP** – Singapore tax pass-through; receives fees, distributes StableCoin.
- Transfer-pricing memo by PwC (filed Q2-25).

Smart-Contract Audit Registry

Contract	Auditor	Status
<code>RealYieldVault.sol</code>	PeckShield	Final – no criticals
<code>OTCVault.sol</code>	Sherlock contest (250 k USDC)	Scheduled Oct-25
<code>GameVault.sol</code>	Hacken audit	Final – 1 medium, fixed
<code>KPIOracleAdapter.sol</code>	Certora Prove	In-progress

Audit reports are pinned to IPFS; CIDs embedded in contract storage.

API & Data-Flow Security

None

Client Browser → Auth0 → FUZE API → Kafka bus → Bot cluster

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Timescale (RBAC) Loki logs (PII-redacted)

- **Zero PII on-chain** – mapping table encrypted in KMS.
- GDPR erasure: user row anonymised, leaf hash remains for audit integrity.

Compliance Score vs Competitors

Vector	Notcoin	Keyrock	FUZE
MiCA alignment	n/a	Desk-level	CASP-ready, income disclosure
Audit coverage	Simple token	Partial infra	All escrow + vaults
Non-custodial	Custodial (NOT)	Custodial sub-accounts	Yes
On-chain log proof	✗	✗	Hourly Merkle root

Upcoming Legal Milestones

Date	Deliverable
Q4-25	Complete Sherlock audit, publish attestation dashboard
Q1-26	SOC 2 Type I for cloud ops (Datadog, AWS)
Q2-26	Cayman foundation legal opinion: token = dividend share analogue, not security under SIBL

Q4-26	DAO-Lite governance triggers first treasury vote; legal wrapper shift to Swiss Association under LexDAO template
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Disclaimer

FUZE tokens are **not marketed** as securities in any jurisdiction. Participation in staking constitutes a claim on *payouts from platform revenue*, not equity in FUZE Labs Ltd. Investors must self-certify eligibility under local laws.

With multi-layer audits, on-chain proof logging, and MiCA/FIT21-aligned disclosures, FUZE.ac stands apart as **the compliance-minded liquidity OS**—instantly usable by risk-averse exchanges and institutional treasuries alike.

19. Appendix

This appendix packs the raw data, definitions, and tables that underpin FUZE.ac's white-paper claims.

Glossary of Terms

Term	Definition
AI MM	AI-reinforced market-making stack (RL core + scenario engine) operating under PM2 supervisor.
Bot Volume	Trades flagged by exchange surveillance as non-organic (wash, self-trade).
Cliff	Period during which vested tokens remain fully locked.
Depth Ratio	Fiat value of bids & asks within $\pm 1\%$ / average retail ticket size (5 \times target).
KPI Bond	Escrowed FUZE that can be slashed if deal milestones not hit.
Merkle Root	Hash representing hourly snapshot of orders, revenue, and KPI logs; posted on Arbitrum Nova.

PlayHub GameVault	L2 contract holding entry fees, distributing rewards, and routing 3 % rake.
Real-Yield Vault	ERC-4626 on Ethereum; streams quarterly StableCoin payouts.
ST Tag	“Special Treatment” warning status before delisting on some CEXs.

KPI Catalogue

KPI	Target	Rolling Window	Rationale
Daily Volume	\geq US\$30 k	15-day SMA	Meets Gate & KuCoin retention thresholds.
Average Spread	\leq 2 %	10-day SMA	Below Binance delist watch (3 %).
Depth Ratio	\geq 5×	Real-time, 5-min EWMA	Ensures buy wall for retail trades.
Price Retention	\geq 80 % of listing price	30-day	Avoids “fallen angel” label.
Wallet Count	\geq 100 unique / week	7-day	Signals real user distribution.

Custom KPIs can be pushed via YAML config in KPI Engine.

Market-Making Modes – Quick Reference

Mode	Trigger	Bot Behaviour
Listing-Day Burst	TGE 0-48 h	1 % spread, shallow depth, maker rebate farming.
Dump-Recovery	Price –15 % 24 h	Widen $3\times\sigma$, stagger bids –1/-2/-3 %.
BTC-Sync	BTC move $\geq 2\sigma$	Mirror BTC $\Delta \pm 0.3\%$, hedge perps.
Volume-Boost	15-day vol drift	Double size, half spread; flash rebates.
Pre-Unlock Defence	T-48 h cliff	Pause sells, widen ask ladder $1.5\times$.
Post-Unlock Absorption	T+0 unlock	Stagger bids, refill wall every 15 m.
Anti-Manipulation	Spoof/FOMO pattern	Delay follow, randomise quote sizes.

Bots can hot-switch via `pm2 trigger <mode>`; switch latency < 200 ms.

Exchange Rule Database (Condensed May-25)

Exchange	Rule	Threshold	Auto-Response
Binance	Avg spread	> 3 % 7-day	Spread-Clamp + extra size
Gate.io	15-day vol	< US\$30 k	Volume-Boost + buyback rebate
KuCoin	Price vs TGE	-20 % 5-day	BTC-Sync + social push
MEXC	Depth score	< 4× ticket	Depth-Boost (add 10 levels)
OKX	Bot pattern flag	Surveillance ping	CEX Watch Mode (slow quotes)

Full YAML files are in [./kpi_rules/](#) repository.

Contract Addresses & Audit Links

Contract	Network	Address	Auditor	Report CID
FUZE ERC-20	Ethereum	0x2177...e36	—	N/A (verified)
RealYieldVault	Ethereum	0x8a15...Bf2	PeckShield	QmTxyz...

OTCVault Factory	Arbitrum One	0xF6d4...91C	Sherlock (scheduled)	TBA
GameVault Template	Base	0x4cFF...dE8	Hacken	QmPabc...

Monte-Carlo APY Sheet

- [/MonteCarlo_APY_v2.xlsx](#) – 10 000-run simulation using profit distributions: Base \$2 M, Growth \$5 M, Bull \$10 M. Median APY spans 6-20 % depending on staked supply ratio.

Reference Studies & Data Sources

1. **Kaiko Q1-2025 Liquidity Study** – ‘Bot concentration in new listings’.
2. **Messari Unlock Tracker** – Weekly CSV of upcoming cliffs.
3. **DeFiLlama Real-Yield Index** – Performance dataset Jan-24 → Jun-25.
4. **Binance ‘Last Chance’ Notice – Jul-25** – Spread and liquidity removal policy.
5. **PeckShield Audit – RealYieldVault** – IPFS CID [QmTxyz...](#)

How to Use This Appendix

- **Builders** – copy KPI YAML into your MM repo to match exchange policies.
- **Investors** – verify contract CIDs & Merkle roots for due diligence.
- **Exchanges** – ingest scorecard API to monitor FUZE-hosted pairs.

Transparency by default – every figure in this white-paper has a source, a contract, or a hash you can check.