



MOIRAI SUBNET

The Protocol of Living IP & Consensus Reality

PART 1: PROJECT OVERVIEW

THE TRILEMMA OF AI CREATION



The Censorship Trap (The Alignment Tax)

Centralized models suffer from “over-safety,” rendering them incapable of handling complex genres like Grimdark Cyberpunk or Cosmic Horror.



The Consistency Problem (Context Amnesia)

Existing AI forgets entities after long serializations, failing to maintain a unified, non-homogenized literary style over millions of words.

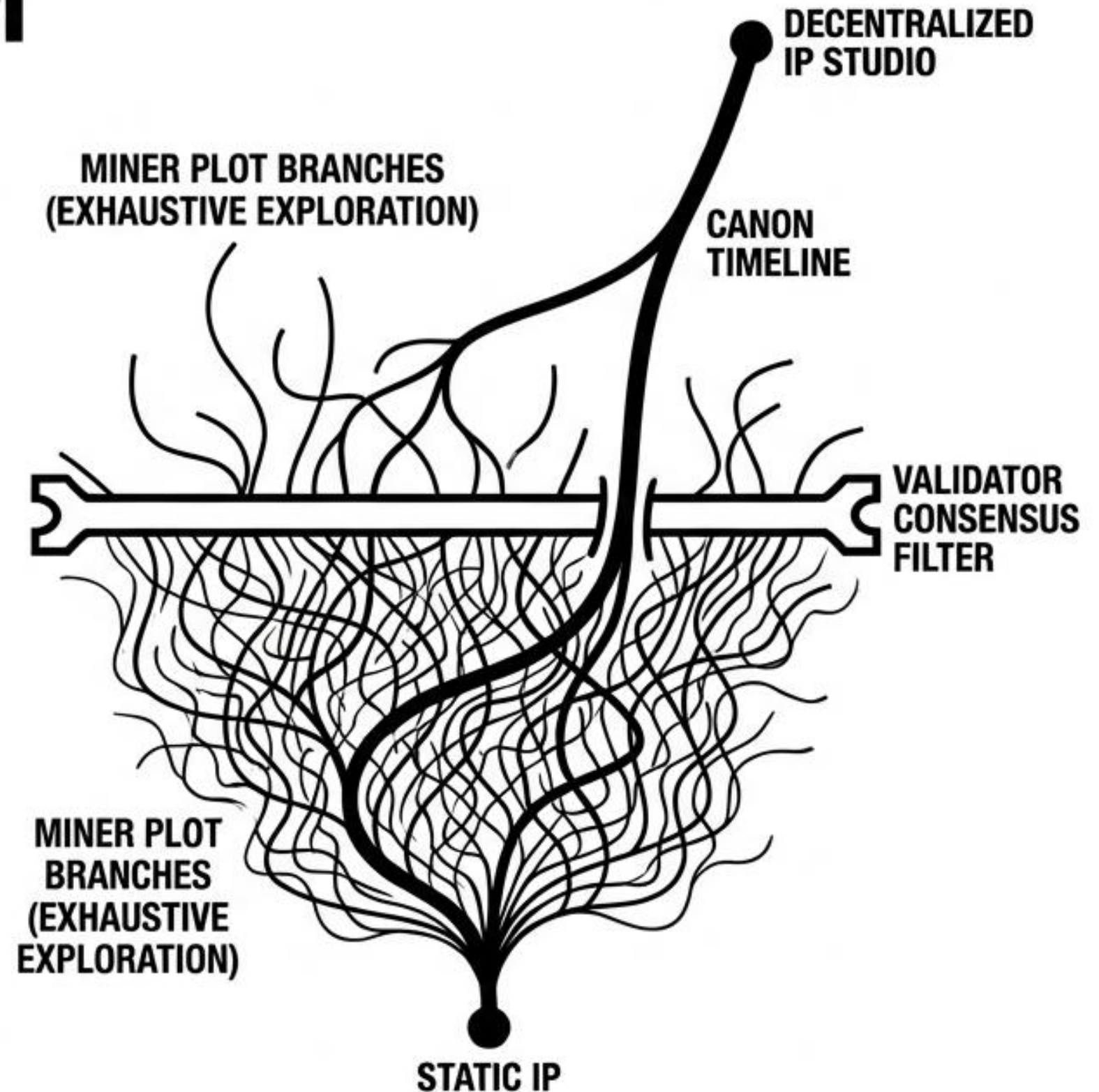


The Zero-Sum Game (Web3 Isolation)

Current Crypto-AI products rely on circular tokenomics and compute speed wars, lacking “Real Yield” from external Web2 consumer markets.

NARRATIVE DARWINISM

- **From Static to Living IP:** We transform IP from assets locked in vaults into organic lifeforms that evolve through decentralized computation.
- **Genetic Mutation (Miners):** Global miners use distributed GPU power to ‘exhaust’ infinite plot branches and stylistic variations.
- **Natural Selection (Validators):** A rigorous consensus mechanism selects the sole ‘Canon’ timeline, creating a Decentralized IP Studio.



PART 2: SUBNET DESIGN & EVALIATION CRITERIA

MINER VS. VALIDATOR: A CLEAR DECOUPLING

MINERS

The Ultimate Simulators

Creators with absolute freedom. They utilize Chain-of-Thought (CoT) and multi-rollout techniques to deduce the most logical and impactful plot outcomes.



VALIDATORS

The Neutral Referees

They strictly manage the 'Canon Graph' and score outputs. They never interfere with creativity or content generation.

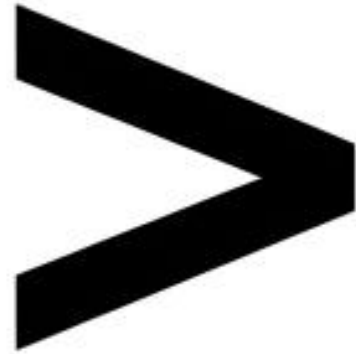


The Separation of Powers: Miners do not act maliciously; Validators do not overstep.
The protocol ensures no centralization of creative control.

REDEFINING WORKLOAD: QUALITY > SPEED



Quality (100% Weight)



Latency (0% Weight)

- **Latency Weight = 0%:** We abandon the ‘sub-second response’ rat race. We prioritize depth over speed.
- **Quality Weight = 100%:** All dTAO emissions are rewarded based on literary value, logical rigor, and style adherence.
- **The T+1 Thinking Window:** Miners are granted a 24-hour window for local inference, allowing for complex Narrative GraphRAG integration.

THE MATHEMATICS OF STORYTELLING

$$\text{Score} = \text{Memory} + \text{Style} + \text{Logic}$$

Graph_Recall (Objective Memory)

Measures the accurate recall of entity relationships (e.g., character status, inventory) from the previous chapters via code/regex.

LoRA_PPL (Objective Style)

Calculates Perplexity (PPL) against the specific 'Style LoRA' (e.g., Cthulhu Mythos). Lower PPL equals better stylistic fit.

Coherence_Judge (Semantic Logic)

A local LLM-as-a-Judge provides a blind score (1–5) on logical consistency, ensuring the plot makes sense.

THE FOG OF WAR: COMMIT-REVEAL PROTOCOL



Phase 1: Commit (22 Hours)

Encrypted Hash Submission.
Plaintext hidden.

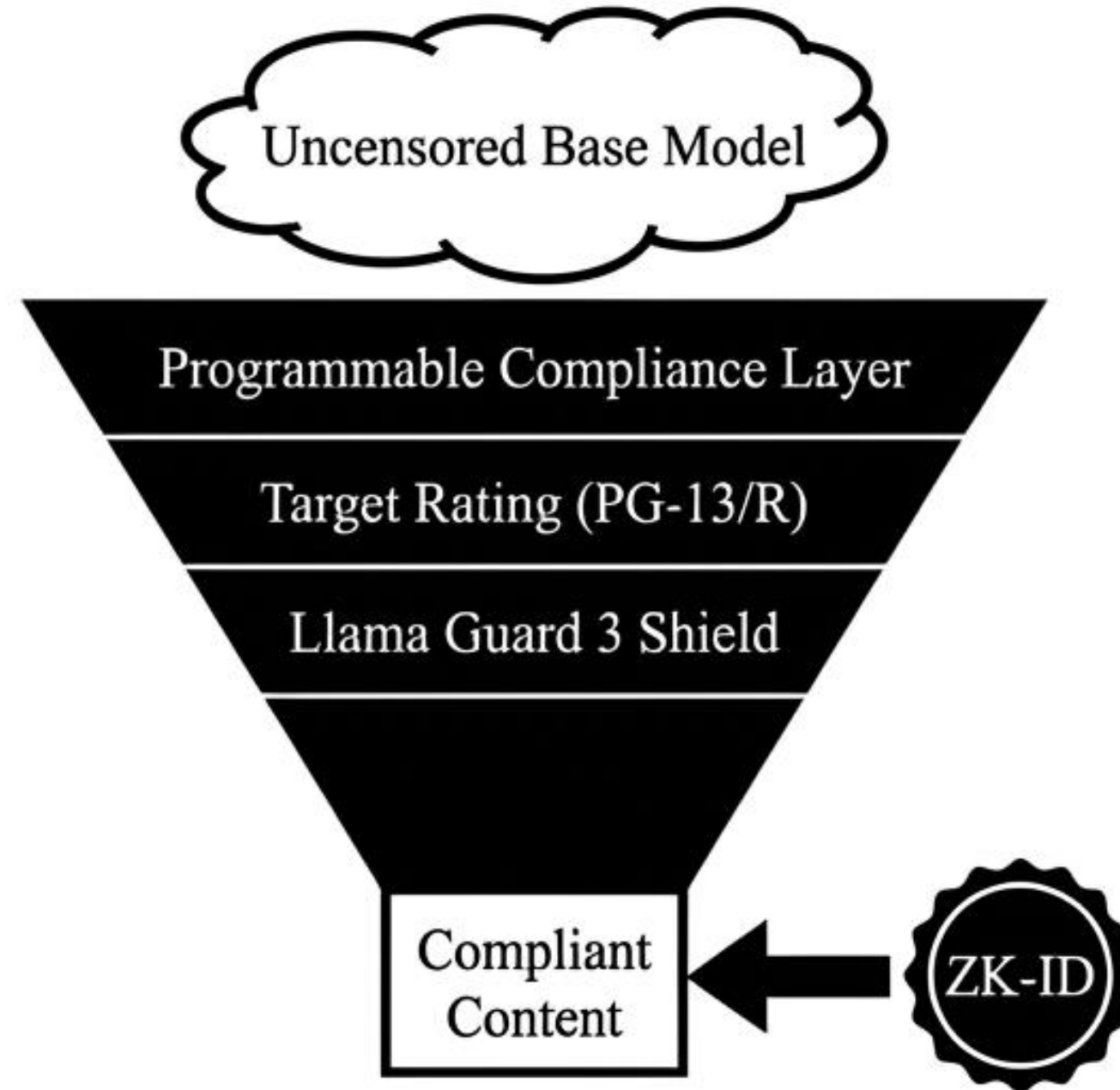


Phase 2: Reveal (2 Hours)

Reveal Keys.
Verify Hash.

- **The Plagiarism Vulnerability:** With a 24-hour window, early submissions are vulnerable to copying.
- **Slash Mechanism:** If hashes mismatch or text overlaps, rewards are slashed to zero.

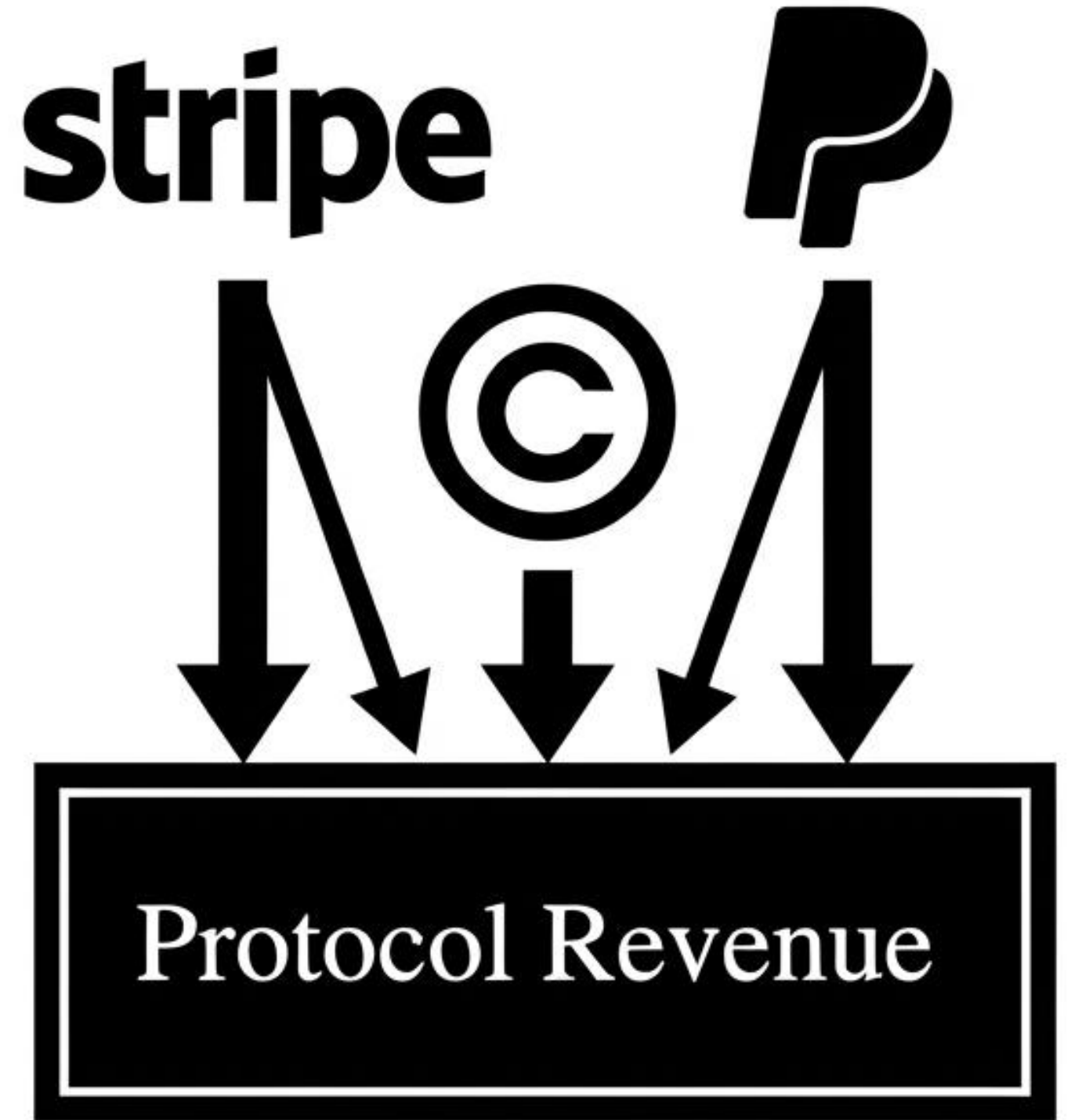
UNCENSORED BASE, COMPLIANT GATEWAY



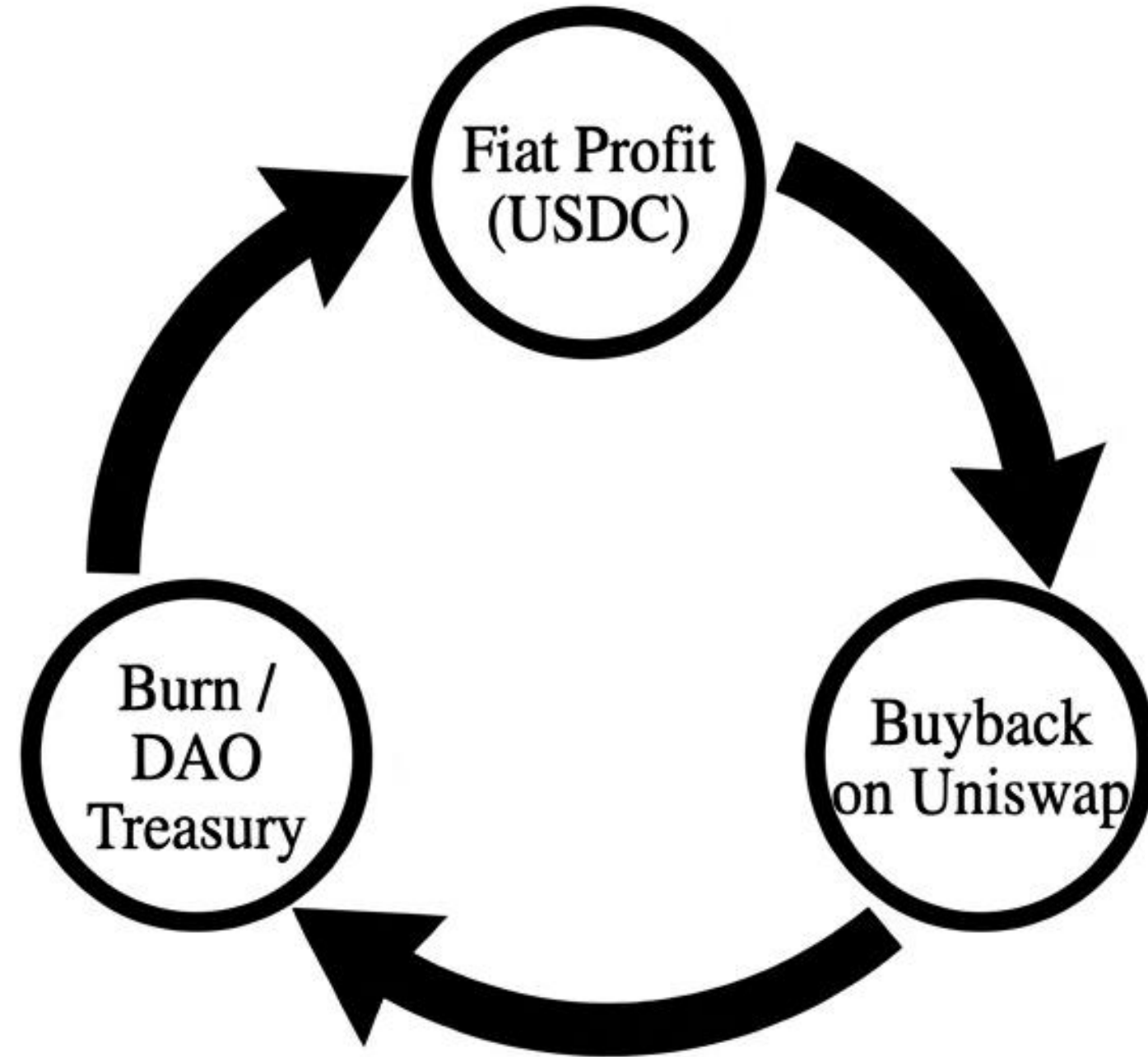
- ****Target Rating Matching****: Tasks are assigned ratings. Miners penalized for 'safe' content on 'R-rated' requests.
- ****Llama Guard 3 Shield****: Filters absolute legal red lines (CSAM, Terrorism). Violations = -100 score & slashing.
- ****ZK-ID****: Readers prove 'Age \geq 18' via Zero-Knowledge Proofs without revealing identity.

BRIDGING WEB2 FIAT TO WEB3

- **Open IP, Paid Access:** Global readers pay subscription fees via Stripe/PayPal to access the evolving story.
- **Commercial Licensing:** Smart contracts enforce revenue sharing. Derivative works route % of profits to protocol.
- **No More Ponzinomics:** Ecosystem supported by genuine consumption, not speculative inflation.



THE dTAO ECONOMIC ENGINE



- **Shadow Swap & Bridge:** Net fiat profits converted to USDC via Coinbase and bridged to Base L2.
- **Automatic Buyback:** Smart contracts use USDC to buy Moirai dTAO on open market.
- **Value Capture:** Holding dTAO is effectively holding an ETF of all Moirai IPs.

PART 3: SUMMARY & ROADMAP

DAO-DRIVEN LIFECYCLE MANAGEMENT



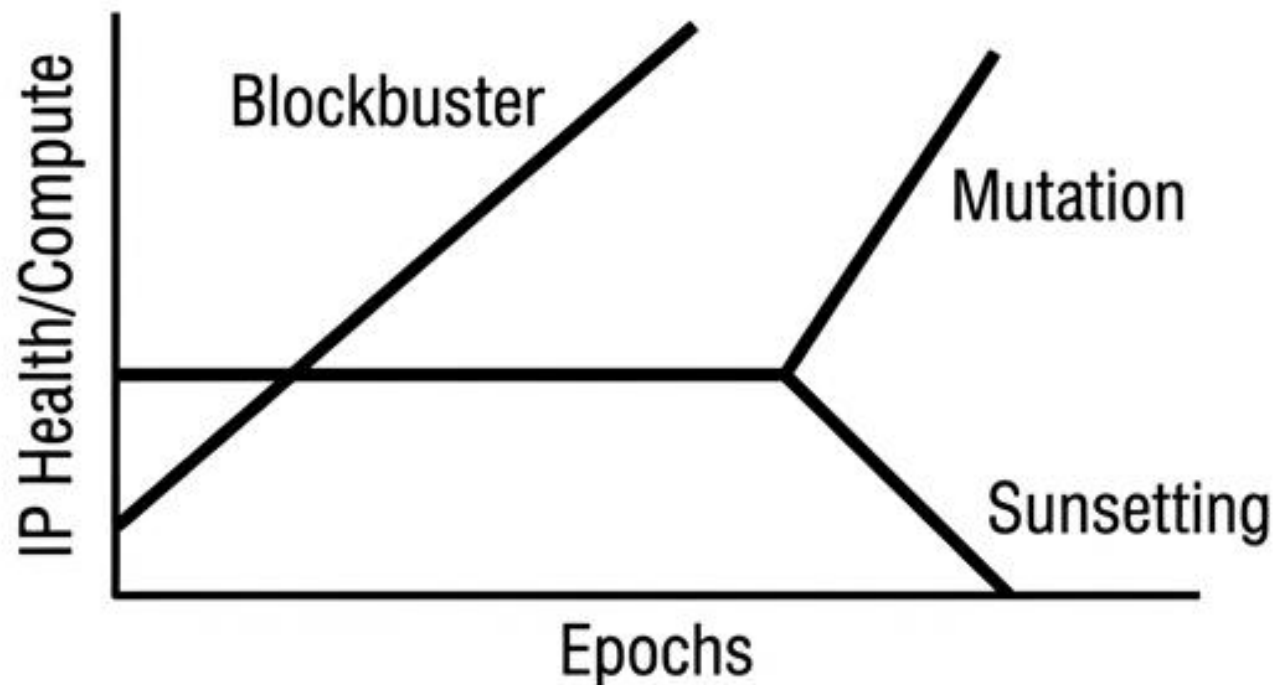
Heartbeat Audits: The DAO reviews on-chain metrics (readership, dTAO burn) every epoch to assess IP health.



Dynamic Allocation: Compute power is reallocated based on popularity. 'Blockbuster' IPs get more miners; dead IPs are sunsetted.



Forced Mutation: If a story stalemates, the DAO can vote to inject a 'Macro Disaster Event' (e.g., Alien Invasion) to force a narrative reset.



COMPUTING THE EVOLUTION OF CULTURE

- **Infrastructure Level:** Moirai is not just a content platform; it is the narrative engine SDK for games, metaverses, and independent creators.
- **Technical Readiness:** Phase 0 (The Forge) is currently stress-testing on Bittensor Testnet (Netuid 361).
- **Call to Action:** We seek to join HackQuest Round II to accelerate the deployment of the world's first Living IP Protocol.

