

Where Al Meets Gaming & Ownership

THE WHITE PAPER





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EXECUTIVE SUMMARY

A New Era Of Intelligent Gaming



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CyberLife is a vertically integrated, Almative gaming protocol design to make intelligent game creation and tokenized ownership accessible.

The platform fuses multimodal large-language-model intelligence, autonomous asset generation, and decentralized economies into a

At its core, Cyberi. He allows a developer—or even a player—to generat

an entire game world from natural language.
Dialogus, NPC legic, 3-D models, soundscapes, and quest structures
are produced by CyberLife's Al Game Pabrication Layer (GPL), verified
on-chain, and instantly tokenized through LifeSwap, the protocol's AMI

. Launchmort system.

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Each deployed world becomes a sovereign digital economy, governed by smart contracts and backed by the SLIFE token.

SLIFE, creating a self-reinforcing economic loop where platform growth continuously reduces supply.

GyberLife sims to establish SLIFE as the monetary substrate for intelligent, player-owned game universes—a foundation where constitute computation, and capital courses.

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PROTOCOL OVERVIEW

a. Design Philosophy



* OVERTURE Cyberlife was engineered on three core principles

Al-Native by Deglero

Intelligence is embedded at every layer, not appended. Gemeilo content, and economy formation originate from coordinated Li clusters reither.





Each game operates independently yet nomeins interoperable through a shared issuidity and opvernance layer governed by









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PROTOCOL OVERVIEW

b. System Components



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CyberLife's protocol stack is divided into six interlocking subsystems:

	Enulan user intend through a month of UMs to produce nametive, logic, and dialogue.	GPT-4 / Cleade / God / Demiré / Watsonik + Cybertille
Asset Patricetion Engine	Securosci 2-0/3-0 visuals. Marunes, and cudio assets.	Diffusion Models - Transferoner Audio Synthesia - PTS Coche
dome Tokenization Pretocol (GEF)	Convets game celties into composable ce-chain primitives.	ERC-33 - ERC-731 - ERC-786 - 2K basedby Coyer
Economic Engine (BIPE Core)	Handles burt logic, stoking, and Equidity routing	Auto-Burn Orocles - Lifetavop Auto + Louvetyped
infrastructure & interior	Ensures compute scalability and cross-shain communication.	Al-Ops Manager Chainlink COP- Anwelse Penistense
Creator & Player stockeds	Provides development, discovery, and monotisation front-ends.	Cybert/le IDE - Player Hub - Streamer API

These layers communicate through deterministic event pipelines, forming a closed content on discompusational logic.

Property — All Properties — Token action — Liquidity — Severance — Propert

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PROTOCOL OVERVIEW

c. Operation Flow



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Prompt Submission creator issues a textual or voice command



Intelligence Layer

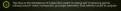
elects the optimal LLM uster based on context, latency, and domain specificity







Player data and DAO proposes feet back into





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TECHNICAL ABSTRACT



1. Al Mesh Routing

CyberLifo's LLM Mash Router (LMR) dynamically orchestrates inference requests across heterogeneous model diusters. Each diuster is scored in real time on latency (L), contextual accuracy (A), and cast (C).

$$W_i = \frac{A_i^{\alpha}}{L^{\beta}C^{\gamma}}$$

where α, β, y are tunable hyper-parameters maintained on-chain for

This creates a transparent, performance-optimized inference market.

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2. Neural Interaction Engine

NPO behavior and narrative branching are handled by a Neural interaction Engine IMEI built on reinforcement-tearning fine-tunes. The NE maintains state vectors representing player scritiment, quest

Agents optimize for engagement (E) and otherence (C):

REWARD
$$-\lambda_E E + \lambda_C C$$

This allows in-game entities to evolve consistently across sessions, producing genuinely emergent generally.



3. Al-Ops Automation

CyberCife abstracts traditional DevOps through its Ai-Ops Manager, which supervises:

- Continuous deployment of same losic micro-services
- Model-version governance via signed checkpoints
 All logs and model hashes are immutably stored on-chain, guaranteeing verifisible reproducibility for developers and auditors.

4. Security Sandbox

fiters enforce deterministic safety bounds, preventing prompt

These sandboxes communicate with the blockchain through gRPC idapters, ensuring no mutable off-chain state influences on-chain

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5. Data Persistence

and IPPS.

This ensures that each world's evolution—disregues, quests, and Al

This ensures that each world's evolution—dialogues, quests, and Al decisions—remains permanently auditable, forming a new category of living digital horizage.

ummary of Technical Claims

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IV.

GAME-CREATION PIPELINE

From Prompt to Playable World

CyberLife compresses what once required entire studies into a deterministic five-stage pipeline. Each stage is transparent, verifiable, and recorded on chair so that creative output and economic value remain insergentine.

1. Intent Parsing

Every build begins with a prompt — text, votes, or structured JSON. The system texnicipes the inser, extracts consecuted intents (characters, text, general, mechanists), and generates an embedding vector stored in the Content Memory Gank (Characters). This persistent context allows later sessions or collaborating

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2. Model Orchestration

The parsed intent is dispotched through the LLM Mash Router, which selects the optimal model cluster. Routing logic weights each model's latency and accuracy, as described carlor.

The result is a compositional bundler narrative JSON, gameplay logic tree and environmental descriptors

tree, and environmental descriptors

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3. Asset Synthesis

The Asset Fabricistion Engine interprets those descriptors and calls diffusion pipelines to generate 2-D/2-D art, shaders, and soundscapes. Each output is assigned a Content identifier (CD) on PFS and signed by

Cyberi, ife's content-auth cracie. Duplicate or derivative assets can reference prior CIDs, enabling

4. Logic Compilation & Testing

Came logic is complised into deterministic WASM modulus.

An Al-QA Agent immulates thousands of playthmoghs to serface deadlocks or reward explicits before main net deployment.

Performance telementry is fed back to the model neutre, improving future generation quality.

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5. Tokenization & Deployment

Upon creator approval, the build triggers a Protocol-Layer Game Genesis invocation (PLGGI):

A new EDG-20 on EDG-1955 token in mixturi as that world's house

 A new ERO-20 or ERC-1155 token is minted as that world's base currency.

 Smart contracts governing P2E emission, staking, and liquidity inflation are dealward.

An automatic pairing with SLFE occurs through LifeSwap, creating the first law of the need.

From this point forward, the game operates as a sovereign economic above within the Cuberi if meanward.

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V. LIFESWAP + LAUNCHPAD ARCHITECTURE

Purpose

LifeSwap is not a stand-alone exchange; it is the economic circulatory system of the CyberLife protocol, it combines an Automated Market Maker (AMM) with a Launchpad Factory, ensuring that every tokenized world has instant liquidity and transparent price discovery from its first block.

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1. Smai	rt Cont	ract Su	ţ

2. Bonding Curve Economics

$$P(S) = a + bS^k$$

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 - a noor price in our
- is a curve exponent controlling voidfifty
 is each new unit of a same token is sold, additional SUFE is looked into
- the pool, strengthening the base token while gradually raising the entry cost for later buyers.

When liquidity providers exit, the reverse function refunds \$LIFE and burns a portion according to the Auto-Rurn Gragie

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3. Launchpad Lifecycle

- 1 Proposal Stage Developers submit a token-launch proposal, staking
- 2. Community Voting SLFE stakers cast weighted votes via the
- Token Mint & Gurve Initialization Once quorum is met, the Toker
 Eachery deploys contracts and seeds the initial cool.
- 4. Listing & Incentivization Early liquidity providers earn boosted
- SLFE rewards for a fixed epoch.
- Post-Launch Governance Fees and emission parameters can later be tuned through DAO proposals.

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4. Liquidity Routing

All trades between game tokens pass through SLFE, creating continuous transactional domand.

Mathematically, the routing volume VLV, LVL for SUFE over nigames can be approximated as:

$$V_L = \sum_{i=1}^{n} (T_i \times \Phi_i)$$

where TiT,iTi is trade volume of game I and \$1\phi,j\$1 is the routing

This direct coupling between platform activity and token throughput underpine SUPE's value accrual.

VI.

ECONOMIC MODEL & TOKEN MECHANICS



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1. \$LIFE as Base Layer Asset

SLIFE functions simultaneously as:

- Medium of Exchange the base pair on LifeSwap.
- Access Taken required for subscriptions, SDK credits, and All compute tiers.
 - Defiationary Unit every tokenization event burns a fraction of supply.

Sovernance Weight — staking grants voting rights and proposal

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2. Deflationary Burn Equation

Each couchain came deployment involves a deterministic burn:

$$B = \alpha \times R \times (1 - \beta)$$

Theirec

- B = SUFE burned
- a = protocol burn coefficient (default 0.15)
- β = developer rebate ratio (default 0.25 for verified partners).
- his design ensures that platform expansion always decreases n

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3. Emission and Reward Streams

- Staking Rewards: Distributed linearly per epoch, sourced from
- Liquidity incentives: Dynamic APRs adjusted by pool depth and volatility.

to a development valid, belancing deflation with ecosystem growth.

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4. Economic Flywheel

- 1 Creation Demand Developers require \$LFE to tokenize and
- deploy.

 2. Usage Scarcity: Auto-burn reduces circulating supply.

 3. Trading Valocity: Players and traders route swaps through \$LFE
- Staking Governmes: Holders reinvest earnings, stabilizing liquidity.
 The feedback loop produces a saff-sustaining equilibrium where utility,
- The feedback loop produces a self-sustaining equilibrium where utility, scarcity, and governance continuously reinforce one another.



VII.

GOVERNANCE & DAO MECHANICS



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1. Governance Philosophy

CyberLife's governance model is designed around progressive

in early phases, operational control resides with the CyberLife

As stability and community maturity grow, decision-making transition toward CyberDAO—a modular governance system powered by SLIFE staking.

The goal is to maintain agailty in innovation during initial deployment while guaranteeing immutability of core economic principles fourn mechanics, liquidity integrity, and user ownership) once the ecceyst

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2. CyberDAO Structure

CyberDAO operates across three concentric layers of participation:

Technicol stewards elected from verified developers and long-term statures.	Protected upgrades, parameter funing
Encoder returns of botom holders eligible to propose and side.	Loursefgied billings, treasury officiations
Expert groups (economics, stetrics, security) providing non-binding recommendations.	Audit coordination, model-safety reviews

Outing power derives from staked BUFE, with optional quadratic weighting to mitigate which downiernae.

Proposala move through a standardinad pipeline (both - Yeldelaten - Yele - Provision, each stage glowered by an e-fol

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3. Treasury Management

A fixed percentage of network fees and burn remainders flow into the

 Development Vault (40%) – grants for new game studios and Al too creators.

during volatility.

• Governance Rewards (20%) - incentives for active participation and

Proposal authorship.
 Audit & Compliance Fund (10%) - periodic security reviews and

regulatory outriests.

All transactions are verifiable via on-chain multi-sig ledgers and quarterly transparency reports.

4. Governance Equations

$$V = S \times \log(1-t_i) \qquad V = \frac{V}{\sum_{i=1}^{N} K}$$

where \$18,181 is staked \$LIFES and tit, Iti is staking duration (epochs). This logarithmic decay rewards commitment without encouraging extreme lock-ups



VIII.

DEVELOPER ECOSYSTEM & AI OPS FRAMEWORK



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1. Daveloper Toolkit

Curbert He provides a unified SDK—the Curbert He IDE—conversions:

- . LLM APIs for dialogue, guest, and losio synthesis.
- Economy API for instant knonization and reward-loop scripting.
 House Manager Cliffor declaration and reward-loop scripting.
- The IDE can operate in no-code mode for creators or in pro-developer mode via Python/TypeScript SDHs and Unreal Engine plug-ins.

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2. Al One Manager

- Model Lifecycle Control versioning, testing, and rollback of fine tuned LLMs.
 Autoscaling inference Nodes dynamic GPU allocation based on
- Autoscaling Inference Nodes dynamic GPU allocation based or active name sessions
- Continuous integration Pipelines automatic QA testing of Algenerated builds before deployment.
 - Telemetry ingestion collects anonymized gameplay metrics for model retraining loops.
- This abstraction allows small studies to run production-grade Al infrastructure with no cloud-ops overhead.

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3. Developer Incentives

\$171 chilops based on engagement metrics.	
Percentage of in-game transaction feet.	arrest-contract
Portion return of turn cost (\$)) for high- performing littles.	



Thisse programs ofign developer success with a the worlds, the stronger the token economy.



IX.

DEFLATIONARY SIMULATION MODEL





1. Objective

To validate that CyberLife's deflationary design remains sustainable under growth stress, a multi-variable simulation was performed using historical analogs from existing burn-based ecosystems (GNS, Luna Classic pro-fork, Axis SLP).

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3. Simulation Function

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$$S_{t} = S_{a} - \sum_{i=1}^{t} (G_{a} \times B \times \alpha \times (1 - \beta))$$

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4. Results (24-Month Window)

At projected growth rates beyond 15 months, compounding adaption begins to outpose new issuance, leading to a gradual contraction in circulating supply an

St IEE token distribution

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ity	
stern Rewards	













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Strategic growth reserve Launch note

At launch, 22.6% of the total supply was privately purchased by the

with community interests, ensuring Cytoriffe remains self-sustaining and growth-oriented without relying on external funding.

milestone-driven, and governed through internal and community overright.

The Strategic Growth Reserve is designed to ensure Cyberlife's sustainable expansion, exchange readiness, and long-term ecosystem health.

Strategic growth reserve

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ritiotive
Exchange Listings &









5. Elastic Burn Tuning

To maintain statistic, Cybert its involuments an Plastic Burn Charle (PRO)

$$\alpha_{i} = \alpha_{i} \times \left(1 + \delta \frac{v_{i} \cdot v_{target}}{L_{t}}\right)$$

5. Takeaways

The simulation demonstrates a controlled deflationary slopes gentle enough to sustain liquidity, tetope enough to runthrore watus. Unlike hyper-deflationary tokens that collapse under low volume, \$LIFE's born logic is self-modulating, anchored to real platform activity rether than speculative trogger.

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CROSS-CHAIN INFRASTRUCTURE

(CCIP Stack)





1. Interoperability Philosophy

CyberLife is designed as a metaprotocol rather than a single-chain

Every game deployed on the network must remain portable scross

liquidity venues and blockchain eossystems. To achieve this, CyberLife integrates Chainlink's Gross-Chain

interoperability Protocol (CCIP) as its canonical messaging and valuetransfer layer.

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3. Asset Portability

When a player transfers value from Game A (Ethereum) to Game S

Tokens are locked in the Bridge Vault.
 CCIP message = (amount, origin, destination, metadata) is signed and

 Wrapped derivative mints on destination; the Burn Gracie updates total LFE supply.

total LFE supply.

4. Gameplay resumes with full economic continuity.

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4. Omnichain Vaults & Derivatives

Omnichain vaults hold cross-chain liquidity collateralized in \$LIFE. Each vault mints a synthetic derivative LfL_fLf (LIFE-fluid) used for instant award scross chains.

where 0+3+10 + Vambda + 10+3+1 ensures partial over-collateralization.

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5. Inter-Game Messaging

Beyond assets, state messages Geaderboards, achievements, Alweights) propagate through the same OCIP framework, creating a multi-world, cross-chain player identity that underpins DyberLife's concept of a persistent metraverse manory.



XI.

SECURITY & SCALING FRAMEWORK



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1. Smart-Contract Security

- Formal Verification: Critical contracts—burn cracks, bonding ourse course—are mathematically verified using Centers / Scribble.
- Audits: External audits every quarter by two independent firms; bugbounty program with tiered rewards.
- Upgradability: Proxy patterns disabled on monetary contracts postaudit; governance-only migration paths thereafter.

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2. Al Model Integrity

CyberLife's inference environments operate inside Trusted Execution Environments (TEE) with differential or heavy filters to prevent data

extification.
Each deployed model carries a heah-stamped signature stoned onchain, ensuring verifiable authenticity and traceability.



3. Data Compliance & Privacy

- Zero-knowledge proofs (zk-SNARKs) validate user achievements without exposing personal data.
- GDPR-aligned pseudonymous identity scheme.
 - As telemetry stripped of Milbefore model-training ingelation.

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4. Scaling Strategy

Herizontal Al Scaling GPU charters auto-spawn via Kubernetes / Nvida Fleet Command, inference sharels distributed by latency geoloostion. Economic Scaling Modular rollup support (Optimise, Base, Arbitrum) with LFE used as gas abstraction tolera inside Layer-2 games.

Data Scaling: Anweave bundles - IPFS shands enable terabyte-scale pensistent worlds. Projected throughput: >20,000 transactions per second across federated refugs. OVERRUFE

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MARKET OUTLOOK & COMPETITIVE LANDSCAPE



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1. Macro Snapshot

2024 Market	2030 Projection	

Cyber, it is its interraction of these outries—it content outconction, observabled ownership, and observed liquidity—representing the first plotform capable of unitying them into one operational economy.

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3. Strategic Advantage

infrastructure-from prompt parsing to liquidity routing-yielding

- 10-20* faster development cycles
- 80 % lower production costs
 Intrinsic economic flywheel between creation and token sparoity



XIII. ROADMAP



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Ecosystem Scaling

LifeSwap AVM + Laurenged -Groud Partnerships (AVIS/Apura/





Brand Expansion

Wotz3 SDM Bunity/Linneall-Streamer Partnerships-Cyber-Greaters Program



PHAMEIV

Protocol Evolution

Must-Apers At Moon-Dynamic Burn Dashboard - CyberDAD Bovernance Lauroh



Oross - Chain Dominanos OOP Expansion to Sciena, zelly ve. Aprilos - Orrechein Llaudity Veets -Motes Affintegration



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CONCLUSION



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CyberLife re-imagines the mechanics of creation, ownership, and value

within digital worlds. By coupling Alichiven production with deflationary blockchain concenics, it establishes a framework where each player, developer, and contributor becomes a stakeholder in a living, self-evolving

- Developers gain immediate access to intelligent, scalable gamebuilding infrastructure.
- Players own verifiable digital property and earn from participation.
 - westors hold exposure to a deflationary token system directly tied o real network activity.

Every prompt generated on CyberLife contributes to a continuously learning, economically self-balancing universe—a feedback loop where intelligence creates value and value fuels further intelligence.

CONTACT

Be part of the platform where Al and blockchain power the future of gamin







XV.

TEAM & ADVISORS



Core Team

Dimitris M

.....

Software Engineer with a background in distributed systems and artificial intelligence. Oversees protocol direction, partnerships, a strategic execution of the CyberLife roadmap.

Dimbo X

Information and Communications Engineer specializing in Al model integration and scalable on-chain architectures. Leads the

Abdul S Al Systems Engineer (Microsoft

Machine learning specialist and systems integrator with expertise in multimodal model deployment, neural routing, and reinforcement learning pipelines.

Nima Tamizi

Pormer Amazon Web Service

operations engineer with extensive experience in cloud optimization, network ecosing, and infrastructure security. Manages Gybert/Mrk global compute architecture and node relability.

Timothy Lead Game Dave

Game Engine and Al Simulation Framework, ensuring real-time performance and verificate logi determinism across networkes



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Participation in the CyberLife ecosystem involves risk, including opportunities of risks assets. Users and investors should perform their

potential loss of digital assets. Users and invastors should perform their own due dispense and consult with licensed professionals before engaging in any transaction or token purchase. Orbert the reserves the right to modify or update any aspect of this

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Using Al tools, bots, enliping, or sperming methods to purchase Cyberife (8)LFE tokers—especially during TGE—may result in heavy taxation or potential loss of funds, All participants are strongly advised to engage in fair and honest purchasing produces. Please refinish from using automatical systems and respect of fair bunch for everyone.

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