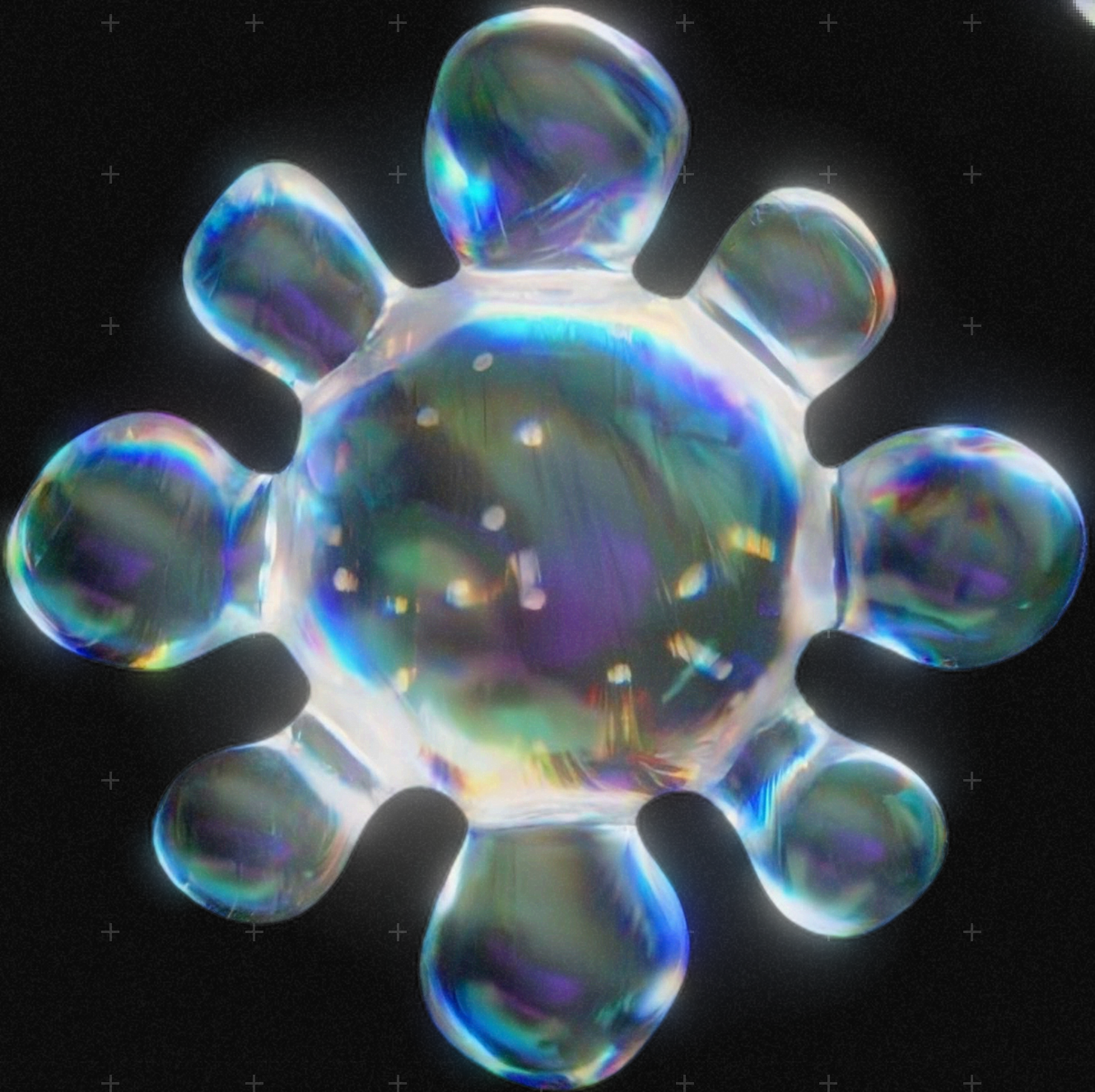


# LITEPAPER

INTRODUCTION  
TO GENOME



Game engagement is a limitless stream of value. Genome rewrites gaming's DNA, converging Web2 and Web3 into a unified ecosystem where everyone benefits.



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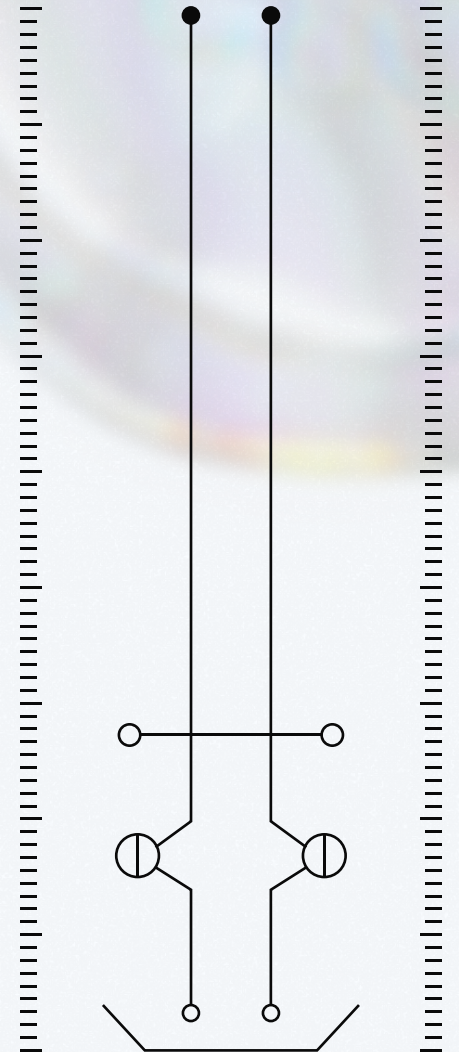
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Gaming is one of the leading attention drivers in the digital age, demanding significant user engagement, yet mechanisms to capture and fairly distribute this value are still limited and underdeveloped. This ineffective infrastructure leaves most developers, players, and viewers excluded from meaningful revenue-sharing opportunities wasting time and money on both ends.

Decentralized technologies were created with the intention of empowering individual ownership of game assets and data, while simultaneously enabling transparent and traceable reward distribution. However, Web3 gaming has largely missed the mark, focusing too heavily on asset prices and unsustainable play-to-earn models—as seen in the collapse of Axie Infinity, where short-term gains massively eclipsed any chance of long lasting value within the ecosystem.



Blockchain fragmentation compounded these challenges, isolating users and assets across a wide web of disconnected ecosystems. To unlock gaming's full potential, the industry must establish a model that balances economic viability with immersive and rewarding player experiences—creating fluid revenue streams that connect and align stakeholders across all platforms.

This opportunity goes beyond Web3; Genome advances Game-Fi with Game-FAI—blending decentralized gaming economies with AI-driven tools to redefine engagement, competition, and revenue models.



THIS IS GAMING LIQUIFIED

Genome is a next-generation Layer-2 superchain that seamlessly connects every game, player, and viewer across Web2 and Web3 through a fully programmable, hyperscalable monetizable engagement layer.



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Genome bridges Web2 and Web3 to establish an interconnected economy powered by Game-FAI, where AI tools enhance engagement, automate tasks, Agents evolve, compete and create new ways for players and developers to earn and grow. Game developers can easily incorporate competitive ecosystems into their games using native tokens and NFTs, creating district and effective revenue streams from fees and sponsorships while reaching a previously untapped global audience.



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With a white-label, ready-to-use interface, players and viewers can log in from any wallet, enabling one-click access, to host or join tournaments, compete, and earn alongside their favorite players and streamers in real-time.

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Genome's architecture supports limitless scalability, speed, and seamless integration, with complete chain and account abstraction, supporting any game or asset type. Through decentralized technology, Genome unites players, viewers, and developers into a singular, cohesive, fluid, and interoperable gaming economy where competition drives value.



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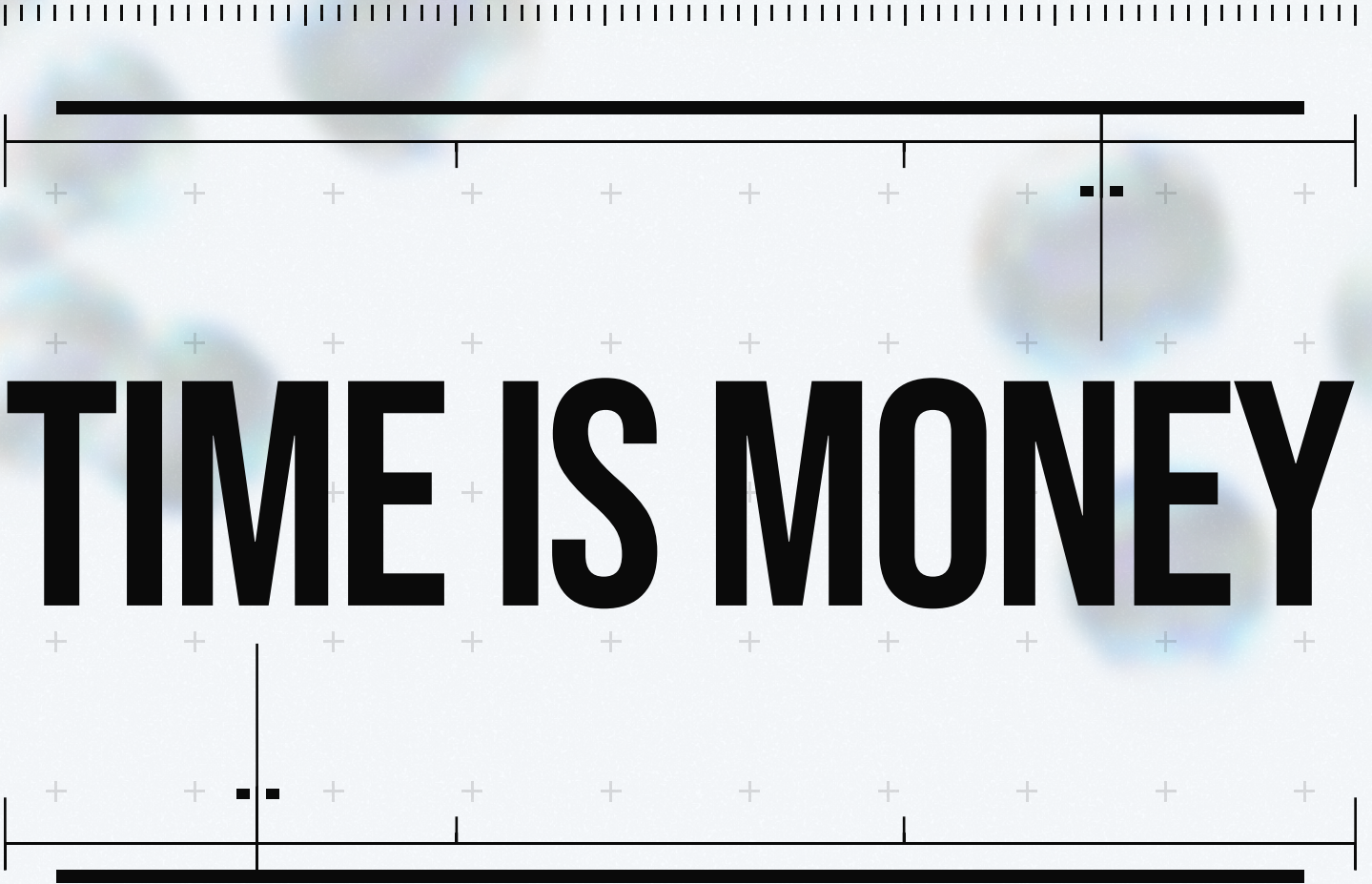
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Engagement fuels modern game economies, driving immersive experiences, loyal audiences, and industry growth.

Genome captures and transforms this engagement—whether through playing, watching, or building—into liquid assets that can be distributed fairly and transparently across the ecosystems into deserving places, to deserving users.

By unlocking the true value of engagement, Genome establishes an open market where value flows directly in proportion to contribution, creating a fair and equitable distribution model for all participants.



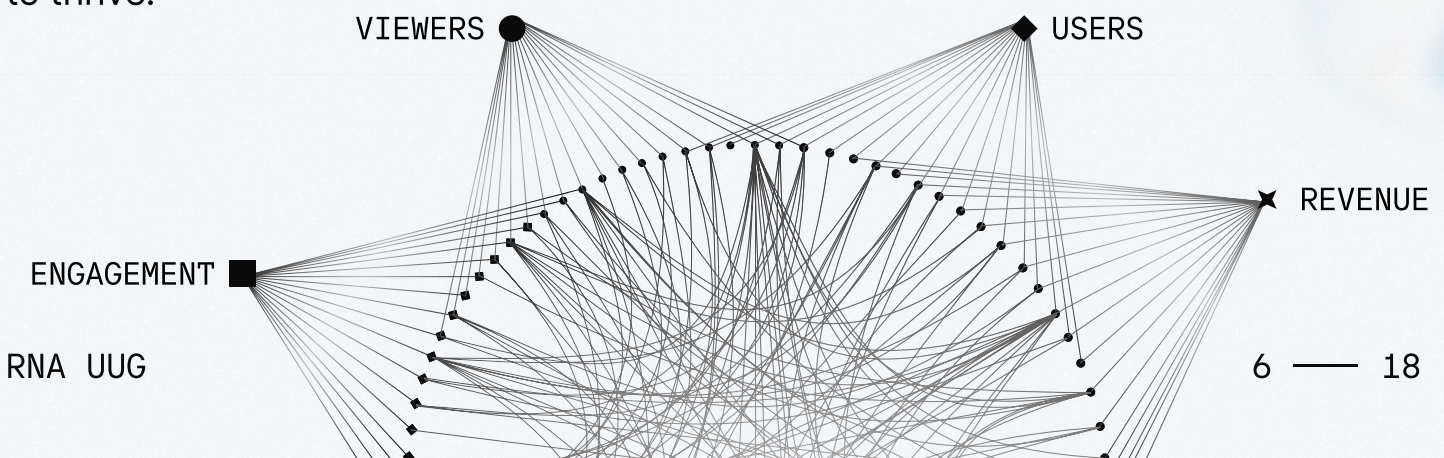
## NOW EVERYONE HAS SKIN IN THE GAME

Successful games thrive in dynamic ecosystems. Competition, whether in ancient gladiator pits or today's virtual arenas, has always captivated audiences serving to entertain, engage, and even distract. Gaming is no exception, yet today's closed game economies only favor large studios and AAA titles, while smaller games and gamers struggle to break through.

Traditionally, each game operates within its own rigid economy, only accessible to a limited pool of gamers and stakeholders, like sponsors. Genome dismantles these barriers by leveraging smart contracts and programmable assets, transforming gaming into a unified ecosystem, accessible to all.

Genome combines Game-Fi and AI to redefine competition. Edge's gamified progression rewards players for participating in tournaments, enhancing engagement with meaningful incentives. With Game-FAI, players and AI agents compete in dynamic tournaments, enabling smarter, scalable, and more sustainable engagement. Integrating native game tokens and NFTs whilst maintaining full control of smart contracts, developers can gamify economies and enhance asset utility with custom logic, such as fee burns, to boost engagement. Sponsors can also integrate instantly and seamlessly, joining live streaming venues to create an immersive, full-circle experience.

Genome surpasses traditional esports where PvP formats dominate, competition extends across all game genres—from strategy and puzzles to leaderboards and time-based challenges—creating flexible, inclusive opportunities for all game types to thrive.





# INFRASTRUCTURE BUILD FOR THE MASSES

The future of gaming demands an interconnected ecosystem where players, liquidity, and value flow freely. This requires infrastructure founded on interoperability, allowing seamless access from anywhere.

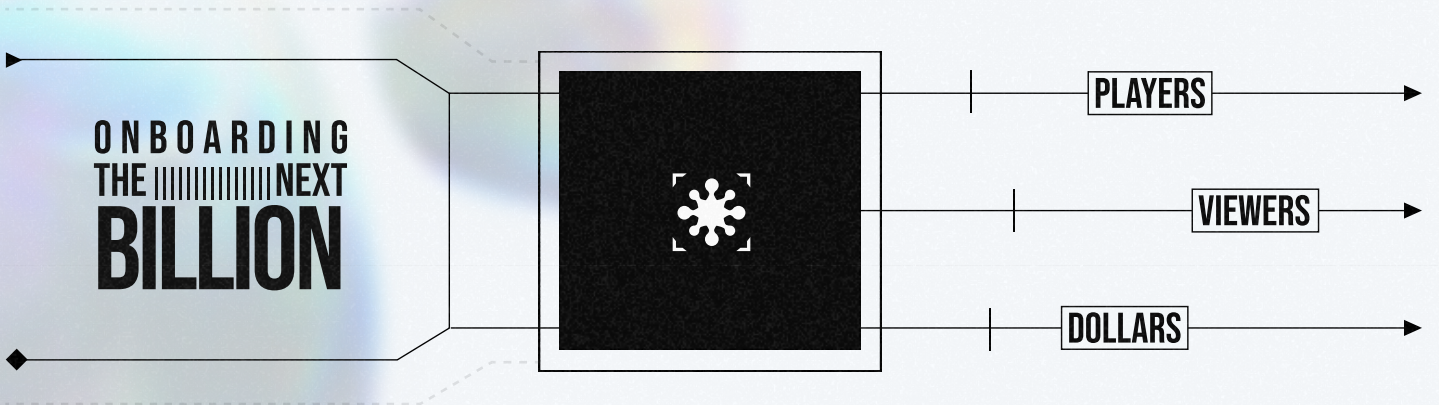
By leveraging chain abstraction, Genome unifies gaming ecosystems across any blockchain — opening access to global users and liquidity.

With a fully account-abstracted solution, users can access within a few clicks, creating internet-like experiences.

As the gaming landscape continues to expand — with over 3 billion gamers and viewers worldwide—Genome is designed to be infinitely scalable, decentralized, and dynamically responsive to rising volume and demand.

Supporting limitless competitive activity, Genome scales horizontally through dedicated proof-of-stake agents that expand freely as needed.

Genome’s infrastructure is built for scale. Game-FAI enhances scalability by automating repetitive tasks and supporting high volumes of intelligent agent-driven activity, ensuring the ecosystem adapts to growing demand.



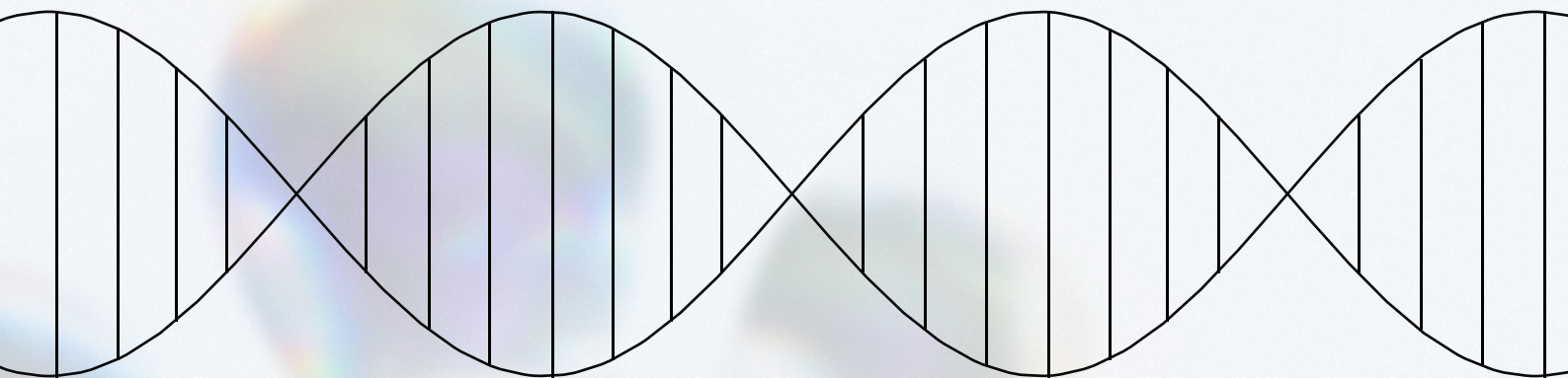


# EMPOWERING GAMERS TO LEAD

The gaming world today often prioritizes profit over player experience, pushing the community to the sidelines in major decisions. Genome inverts this model completely, finally giving gamers direct control over their experience.

Gamers can take the lead weather through play, specating, prediction or more.

With the power to shape tournament structures, set fees, vote on new games, manage token burns, and more, With Game-FAI insights, NOME holders can steer the platform's evolution more effectively. This player-first approach leverages data and AI tools to create a transparent, community-driven ecosystem..





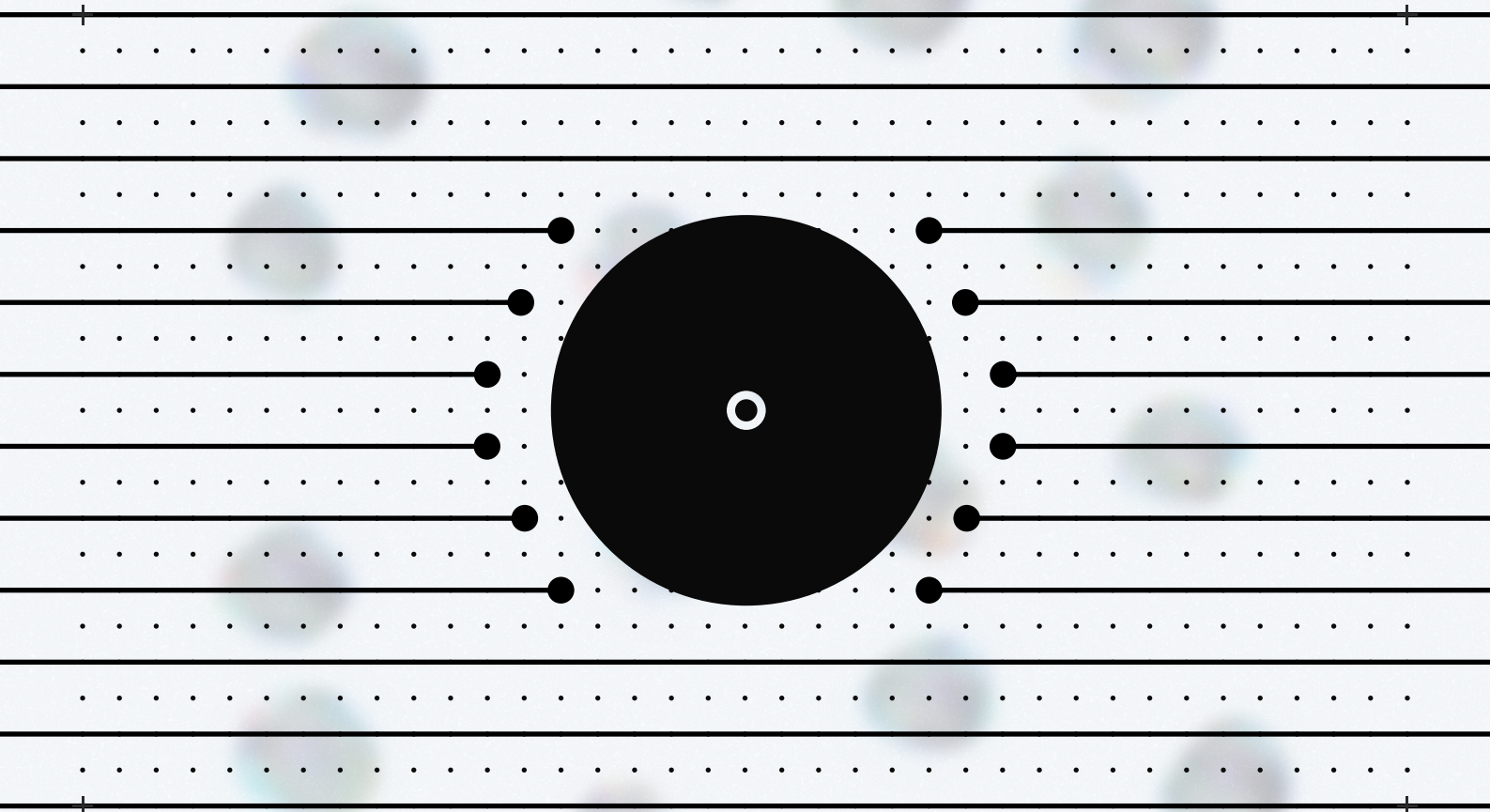


# OPEN FOR ALL

Genome integrates seamlessly with Web2 and Web3 systems, enabling Game-FAI, Edge and Kode to operate across all tokens, NFTs, and platforms, driving interoperability and cross-chain engagement.

Built for ultimate flexibility, it adapts to both Web2 and Web3 games, truly uniting communities across platforms.

With one-click logins, Genome merges traditional and blockchain gamers, creating a cohesive, interconnected gaming ecosystem. This collaborative approach ensures broad compatibility and accessibility for all players, regardless of their entry point or background in gaming





# THE NEXT ERA OF GAMING ECONOMIES

Game-FAI merges the principles of Game-Fi with the power of artificial intelligence, creating smarter, more dynamic gaming ecosystems. By integrating AI into existing Game-Fi structures, Genome unlocks new opportunities for players, developers, and communities to compete, earn, and engage.

## WHAT GAME-FAI ENABLES

E.g. CS:GO, Factorio, Super Smash Bros and others

<b>Smarter Gameplay</b>	AI agents analyze performance, optimize strategies, and automate tasks like resource farming and P2E grinding, allowing players to focus on the game's most rewarding aspects.
<b>Enhanced Competition</b>	Deploy AI agents in tournaments, prediction markets, or agent-vs-agent battles, expanding and redefining the scope of competitive gaming.
<b>Monetizable Assets</b>	Rent or sell trained AI agents as virtual coaches, predictive analysts, or autonomous players, creating new revenue streams for users and developers alike.

## TRANSFORMING GAME-FI WITH AI

Genome ensures transparency and trust in Game-FAI ecosystems with Trusted Execution Environments (TEE). This technology verifies that all AI interactions—whether in competition, prediction, or collaboration—are secure, fair, and reliable.



## LIMITLESS APPLICATIONS

Game-FAI enhances gaming across genres and platforms:

Compete in FPS games with AI agents trained for precision and strategy.

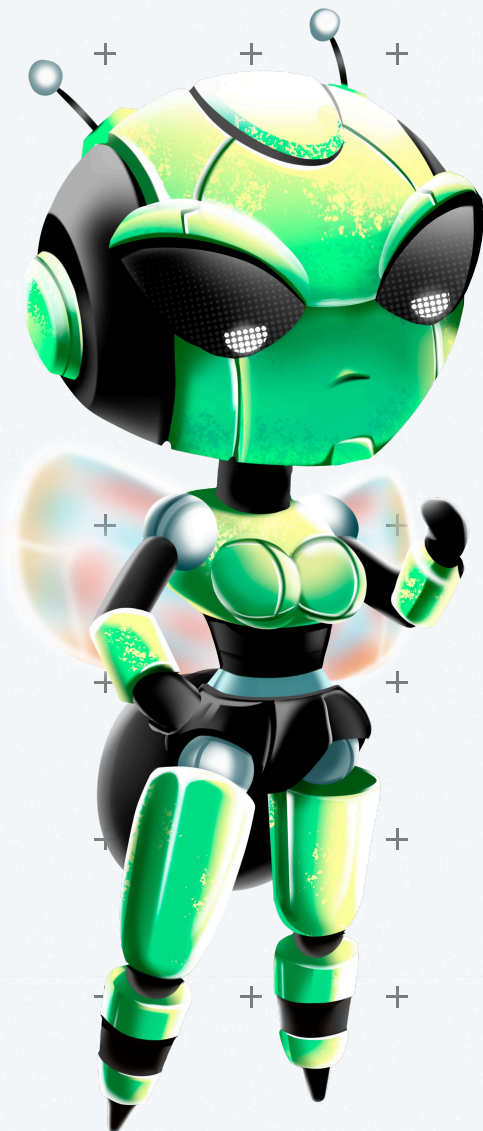
Predict outcomes in live esports or legendary AI driven events like Mayweather vs. Tyson.

Enable seamless integration of AI-driven gameplay across Web2 and Web3 ecosystems across all gaming verticals.

# GAME-FAI

## SMARTER, SCALABLE, AND SUSTAINABLE

By combining the adaptive intelligence of AI with the economic innovation of Game-Fi, Genome drives to usher in the next evolution of gaming. Empowering players and developers to take full advantage of AI-enhanced ecosystems, creating smarter competition, scalable engagement, and sustainable and tangible value.





## WEB2 GAMES PAIN POINTS

E.g. CS:GO, Factorio, Super Smash Bros and others

TRADITIONAL PROBLEM	GENOME SOLUTION
<p> <b>Lack of infrastructure</b></p> <p>Web2 games often lack the necessary tools and p2p transaction systems</p>	<p> <b>Monetizable Competitional Label</b></p> <p>Introduces a competitive layer that monetizes engagement with advanced, sophisticated features like live streaming</p>
<p> <b>Limited customization</b></p> <p>Players cannot create custom tournaments, restricting engagement to major Esports events</p>	<p> <b>Customizable Revenue Distribution</b></p> <p>Offers clear fee structures and revenue sharing via blockchain technology, making it as easy to implement as it is effective</p>
<p> <b>Neglected Viewers</b></p> <p>Viewer participation is to larger Esports events, with little to no opportunity for engagement for regular consumers</p>	<p> <b>Easy Integration</b></p> <p>Developers can integrate Genome through their pre-existing native game interface or Edge platform, allowing access for all viewers and players.</p>
<p> <b>Sponsor Disparity</b></p> <p>Smaller sponsors often neglected, only major brands receiving representation</p>	<p> <b>Level Playing Field</b></p> <p>Allows sponsors and advertisers to easily plug in to or host tournaments, leveling the playing field</p>
<p> <b>Genre Limitations</b></p> <p>Not all gaming genres are represented within the Esports ecosystem only focusing on the largely popular games.</p>	<p> <b>Diverse Engagement</b></p> <p>Supports diverse engagement, ensuring representation for various gaming genres as long as there's an audience or player</p>
<p> <b>Revenue Loss for Smaller Games</b></p> <p>Traditional gamings skewed to benefit those with bigger treasures, sidelining smaller games &amp; their potential revenue</p>	<p> <b>Transparent Fee Structures</b></p> <p>Transparent fees and revenue sharing through blockchain technology allows smaller games to thrive.</p>



# A MODERN SOLUTION FOR GAMING'S ESTABLISHED PAIN POINTS

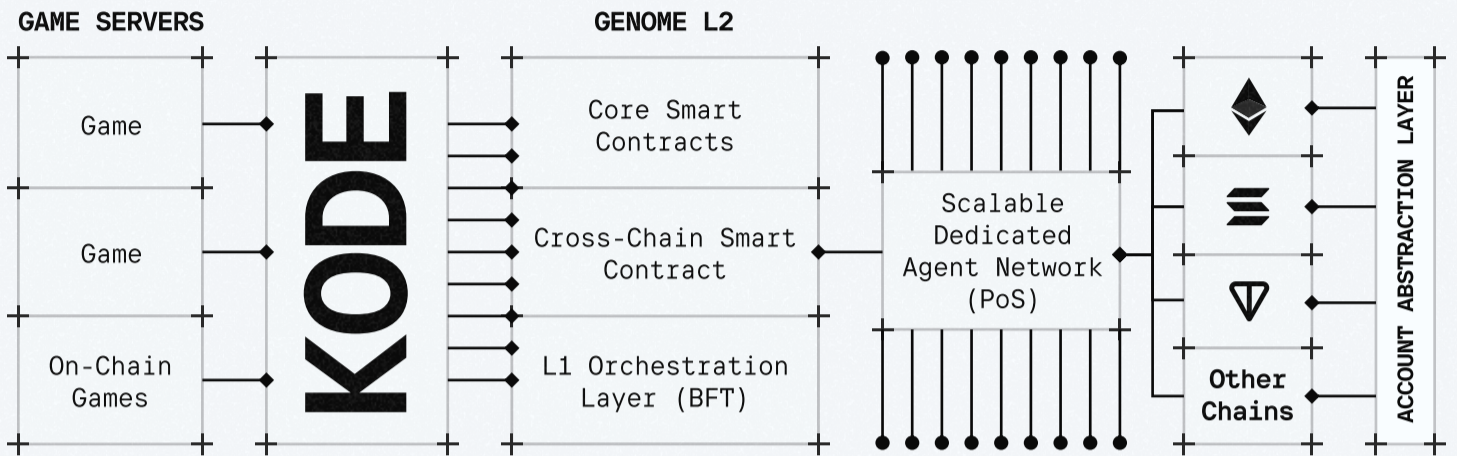
## WEB3 GAMES PAIN POINTS

E.g. Farcana, Shrapnel, Metalcore and others

TRADITIONAL PROBLEM	GENOME SOLUTION
<p> <b>Fragmentation</b></p> <p>The Web3 gaming landscape is highly fragmented, leading to poor user experience and accessibility</p>	<p> <b>Unified Blockchain Ecosystem</b></p> <p>Enables any Web3 game to integrate into a cohesive blockchain environment</p>
<p> <b>Low Daily Active Users (DAUs)</b></p> <p>Many games struggle to attract and retain players in a new and oversaturated space</p>	<p> <b>Cross-Chain Accessibility</b></p> <p>Allows users and liquidity to flow from any blockchain including email login</p>
<p> <b>Sustainable Liquidity Issues</b></p> <p>Current liquidity models are unsustainable, with “compete to earn” systems lacking fluidity</p>	<p> <b>Custom Competitive Arenas</b></p> <p>Allows for the creation of custom competitive arenas within games, promoting sustainable liquidity and engagement</p>
<p> <b>Limited Developer Tools</b></p> <p>Developers face challenges in accessing or affording tools due to chain restrictions</p>	<p> <b>No Additional Costs</b></p> <p>Provides robust developer friendly tools with no hidden costs, empowering developers to focus on gameplay improvements across all chains.</p>
<p> <b>Unused Tokens and NFTs</b></p> <p>Many tokens and NFTs are under utilized within the ecosystem with utility plans needing time</p>	<p> <b>Maximized Utility</b></p> <p>Native assets can be effectively utilized in competitions from day one, maximizing their utility and engagement potential</p>
<p> <b>Isolated Viewers</b></p> <p>Poor and immature infrastructure for bridging Web2 gamers to the Web3 environment</p>	<p> <b>Seamless Integration</b></p> <p>Through Edge, Web2 and Web3 audiences &amp; platforms can bridge seamlessly, fostering a unified gaming ecosystem designed for mass onboarding</p>



Genome is an interoperable Layer-2 Superchain supported by rollup and omnichain smart contracts. It enables asynchronous cross-chain operations and facilitates value transfers based on reliable gameplay data.



<b>Core Smart Contracts</b>	Manages logic on the Genome blockchain to execute omnichain value transfers and processes game results via API and execution messages.
<b>Genome Cross-Chain Messaging (CCM)</b>	Feeds data from a dedicated agent network, facilitating communication with all external blockchains.
<b>L2 Blockchain</b>	Connects with any blockchain ecosystem—EVM or non-EVM—through Genome CCM, leveraging proof-of-stake agents and immutable smart contracts for efficient operations.
<b>L1 Orchestration Layer</b>	Entangle Blockchain. Ethermint-based BFT Layer 1 provides security for writing blockchain states and data storage.
<b>Endpoints</b>	Smart contracts on each blockchain function as communication hubs, allowing seamless data flow across chains.
<b>Agent Network</b>	A specialized network of lightweight nodes that drives transactions and data exchanges across all chains, enabling seamless interoperability.
<b>Kode SDK</b>	The Kode SDK integrates Genome’s competitive framework with Game-FAI capabilities, enabling developers to deploy AI tools for predictive analytics, dynamic tournaments, and enhanced player engagement.
<b>Edge Client</b>	Modular client powering any interface with Genome. Developers can customize components and integrate competition directly into their game or platform.



# SUPERCHARGE

GAMES  
DAUS  
REVENUE

Kode is a universal SDK that empowers games with instant, programmable competition, connecting seamlessly to a global ecosystem of users and liquidity via simple API integration. With full chain and account abstraction, developers gain access to critical tools to boost engagement and drive revenue.

Genome’s Kode API is game-agnostic, supporting all gameplay formats—from single-player to score-based challenges. Through WebSocket integration, Kode processes game results, executes payouts, and distributes revenue across any chain.

Fully modular and flexible, Kode enables developers to mix and match components, tailoring competitive environments to fit their games perfectly. Native asset transfers, like tokens and NFTs, occur seamlessly across networks without wrapping, enabling true interoperability across all chains.

## Plug & Play Modules

<b>Tournaments</b>	Allow players to compete or house tournaments with customizable parameters and automated prize pool distribution.
<b>Challenges</b>	Players can initiate instant challenges, matching with opponents across any preferred stake or format
<b>Predictions</b>	Viewer speculation based on in-game results and gameplay with live streaming

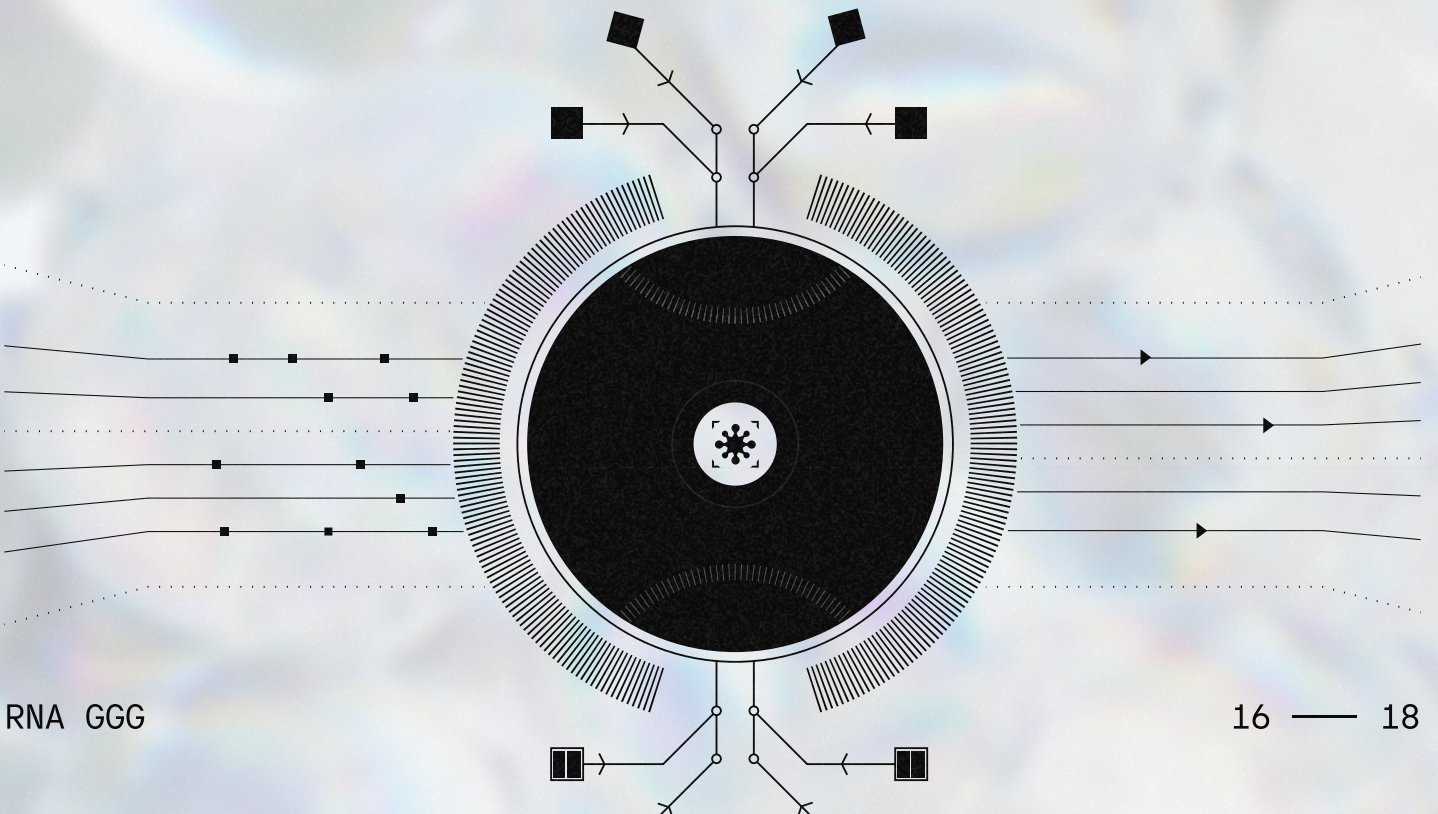


# READY TO COMPETE

Edge is Genome's modular, white-label-ready platform, enabling dynamic competition through tools like tournaments, AI agents, and gamified progression. Players can track their progress, complete objectives, and earn rewards seamlessly, driving engagement and retention. Edge enables games to integrate advanced agentic tools, allowing players and AI agents to compete, predict outcomes, and interact seamlessly within a unified interface.

With Edge's account abstraction via 'Privy,' onboarding becomes frictionless, creating EVM and SOL wallets instantly for each Genome user and removing a large barrier of entry that typical blockchain games face.

Edge also empowers developers with advanced live streaming features, delivering real-time engagement between viewers and players. This combination of modularity, seamless onboarding, and live streaming enables dynamic, fully engaged gaming ecosystems that evolve and improve with player activity.



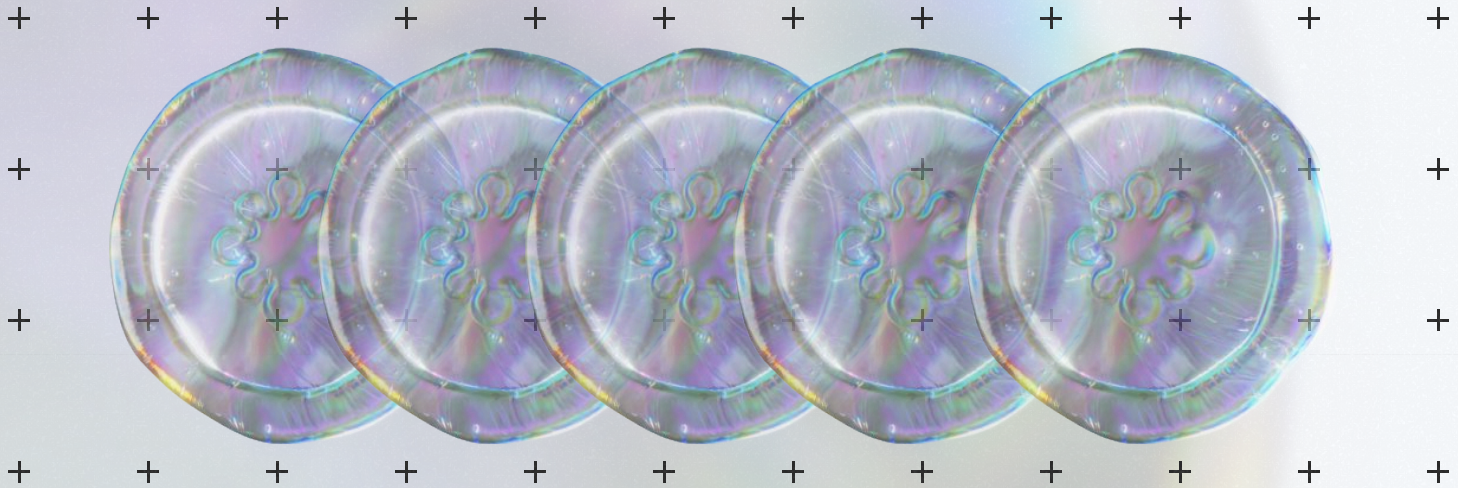




# ONE UNIVERSE POWERED BY \$NOME

The NOME token plays a foundational role in the Genome ecosystem and powers Game-FAI interactions enabling players to deploy, train and monetize AI agents while supporting competitive engagement and governance within Genome’s ecosystem.

<b>Omnichain Competitive Medium</b>	Compatible across all virtual machines, NOME enables frictionless competition from any network, fostering a truly interconnected gaming ecosystem.
<b>Volume-Driven Value Cycle</b>	Boosting user engagement through incentive-based participation structures that rewards meaningful participation in meaningful ways.
<b>Rewards From Real Yield</b>	NOME generates fees from high-stakes activities and a well designed ecosystem infrastructure. Flexible fee structures support any game asset across all blockchains.
<b>Governance</b>	NOME holders control protocol decisions that directly influence the protocol’s evolution by voting on fees, tournaments, new game additions, and token burns.





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# STAY CONNECTED FIND YOUR EDGE POWER YOUR PLAY

With its infinitely scalable architecture — anchored by a Layer 2 solution and a versatile toolkit — Genome redefines engagement as a liquid asset, enabling its capture, refinement, and equitable distribution within a dynamic system.

By combining abstraction and programmable competition, Genome unifies previously isolated gaming ecosystems, supercharging user engagement and revenue potential across Web2 and Web3 games alike.

More than just an evolution; this is the next era of gaming where economic opportunity and community-driven value creation redefine what's possible.

**Welcome to the next era of gaming: where engagement becomes liquid, competition is programmable, and Game-FAI bridges innovation and value creation for players, developers, and communities.**

Visit us on the [Genome.com](#) ↗

Learn more with our [Blog](#) ↗

Play now on our [Testnet](#) ↗