

Gnos.ai Whitepaper v0.1.0

Abstract

Gnos.ai is a revolutionary AI-powered music creation and social platform designed to democratize music production, distribution, and monetization. Inspired by the word "song" spelled backward as "gnos," the platform represents a disruptive shift in the music industry, empowering creators, listeners, and developers through AI tools, blockchain integration, and community-driven governance. Users can generate, upload, and share AI-created music, complete with custom cover images and lyric subtitles. The platform introduces a dual-token system: governance token GNOS (total supply: 8 billion) and utility points token CISUM for in-platform rewards and engagement. Creators earn through various streams including ads, NFTs, and licensing, while the platform sustains itself via fees and shared revenues. With 20% of platform revenues dedicated to buyback and burn of GNOS, Gnos.ai ensures long-term value appreciation and ecosystem sustainability.

This whitepaper outlines the platform's vision, architecture, tokenomics, revenue models, and roadmap, positioning Gnos.ai as the forefront of AI-driven music innovation.

Introduction

The Music Industry's Challenges

The traditional music industry is plagued by barriers to entry, centralized control, and inequitable revenue distribution. Aspiring artists face high production costs, limited access to tools, and dependency on labels for promotion and monetization. Streaming platforms dominate, but payouts are minimal, and AI-generated music often lacks seamless integration into social and economic ecosystems. Moreover, intellectual property management remains fragmented, with creators struggling to protect and monetize their work in a digital age.

Gnos.ai's Vision

Gnos.ai flips the script—literally and figuratively—by creating a decentralized, AI-centric platform where "gnos" symbolizes a backward glance at outdated models to forge a forward-thinking ecosystem. We envision a world where anyone can create professional-grade music using AI, collaborate socially, and earn fairly through blockchain-enabled NFTs and token rewards. By blending creativity, community, and crypto-economics, Gnos.ai empowers users to "earn while you create, listen, and share."

Key Features

- **AI Music Generation:** Intuitive tools for composing, mixing, and generating songs via AI algorithms.
- **Social Integration:** Upload, share, and collaborate on tracks with built-in social feeds, likes, comments, and playlists.
- **NFT Minting:** Convert songs into ERC-721 (unique) or ERC-1155 (multi-edition) NFTs for ownership and trading.
- **Monetization Streams:** Diverse revenue sources for creators, including ads, rankings, and licensing.
- **Governance and Rewards:** GNOS token for voting and staking; CISUM points for daily engagement.

Product Architecture

Gnos.ai is built on a modular, scalable architecture leveraging AI, blockchain, and cloud services to ensure seamless user experiences. The platform is divided into core components:

3.1 Frontend User Interface

- **Web and Mobile Apps:** Responsive design using React.js for web and React Native for iOS/Android. Users access dashboards for creation, browsing, and social interactions.
- **Music Player:** Embedded player with real-time lyric subtitles synced to audio playback. Supports high-quality streaming and offline downloads for premium users.
- **Cover Art Integration:** Users upload or AI-generate images as song covers, stored on IPFS for decentralization.

3.2 AI Music Creation Tools

- **Core Engine:** Powered by advanced AI models (e.g., similar to MusicGen or Stable Audio) for generating melodies, beats, vocals, and lyrics based on user prompts (e.g., "upbeat pop song about adventure").
- **Customization:** Tools for editing AI outputs, adding effects, and collaborating in real-time sessions.
- **Input/Output Handling:** Users upload pure AI-generated tracks or use platform tools. All uploads are verified for AI origin to maintain platform integrity.

3.3 Backend Services

- **API Layer:** RESTful and GraphQL APIs for user authentication, content management, and real-time updates using Node.js and Express.
- **Database:** Hybrid setup with PostgreSQL for structured data (user profiles, song metadata) and MongoDB for unstructured (comments, feeds).
- **AI Processing:** Cloud-based GPUs for on-demand music generation, integrated with services like AWS SageMaker or custom ML pipelines.
- **Social Features:** Feed algorithms prioritizing user engagement, AI-recommended collaborations, and community events.

3.4 Blockchain Integration

Gnos.ai's blockchain layer is fully deployed on **FullOn Network**, a high-performance Layer-1 blockchain designed for Web3 and AI ecosystems. FullOn achieves near-unlimited scalability through its unique 2D-Sharding and dual-chain architecture, while maintaining low latency and high TPS (target exceeding 1 million TPS). This perfectly matches the real-time needs of music generation, NFT minting, instant revenue distribution, and high-concurrency social features.

- **Why FullOn Network:**
 - **High Performance & Low Latency:** Multi-threaded + multi-sharding ensures near-instant song uploads, NFT minting, and TBA (ERC-6551 standard) account revenue settlement, delivering near Web2 user experience.
 - **Ultra-Low Fees:** Extremely low gas costs (far below Ethereum mainnet and most L2s), ideal for micro-transactions such as point redemptions, frequent listening rewards, and virtual singer cultivation.
 - **Multi-Chain Interoperability:** Native support for cross-chain bridges and interoperability protocols, allowing seamless interaction via mainstream wallets (MetaMask, WalletConnect, HuFu Wallet, etc.). Assets can be bridged to Ethereum, Solana, and other ecosystems for broader liquidity.
 - **AI-Friendly:** Optimized for Web3 + AI scenarios, supporting efficient on-chain storage and computation for AI Agent data, enabling long-term virtual singer TBA NFT cultivation and revenue tracking.

- **NFT Marketplace:** ERC-721 (unique songs/singers) and ERC-1155 (limited editions) minting via FullOn smart contracts. Audio files, lyrics, covers, and AI generation logs stored on IPFS/Arweave for decentralization and permanence.
- **Smart Contracts:** Governance voting, automated revenue distribution (including TBA accounts), 20% platform revenue buyback & burn of GNOS, and AI upload verification on-chain proofs—all deployed on FullOn. Contracts are third-party audited.
- **Wallet Integration:** Full support for native FullOn wallets (e.g., HuFu Wallet) and multi-chain wallets (MetaMask, WalletConnect, RWID phone-linked accounts). One-click network switching and cross-chain asset import/export.

This deployment significantly reduces operational costs, lowers user entry barriers, and reserves room for future expansions such as cross-chain music copyright markets.

3.5 Security and Compliance

- **Data Privacy:** GDPR-compliant, with user-controlled data sharing.
- **Content Moderation:** AI-assisted review to prevent copyright infringement, ensuring all content is AI-generated or licensed.
- **Scalability:** Microservices architecture on Kubernetes, with CDN for global content delivery.

3.6 User Flows

- **Creator Flow:** Register → Generate/Upload Song → Add Cover & Lyrics → Mint NFT (optional) → Share & Earn.
- **Listener Flow:** Browse/Listen → Earn CISUM → Invite Friends → Trade NFTs.
- **Developer Flow:** Access API for secondary uses (e.g., remixing songs) with royalty payments.

3.7 AI Agent and Virtual Singer Cultivation System

Gnos.ai introduces an advanced AI Agent system that allows users to personally cultivate virtual music singers (Virtual Singers), expanding the platform's creative boundaries. This feature deeply integrates AI personalization with blockchain technology, enabling users to "raise" custom AI singer personas and manage ownership and revenue rights on-chain via Token Bound Account (TBA) NFTs.

- **Core Mechanisms:**
 - **Personalized Cultivation:** Users build virtual singers from scratch or preset templates through the AI Agent tool, defining music style, vocal characteristics, visual appearance, and backstory. Iterative training via prompts, sample uploads, and feedback refines the singer over time.
 - **Social Interaction:** Virtual singers can post updates, collaborate on duets, and respond to user comments for immersive engagement.
 - **TBA NFT Issuance:** Mature virtual singers can be minted as TBA NFTs. The NFT owns an independent on-chain wallet (Token Bound Account) that holds and receives revenue.
 - **NFT Types:** ERC-721 (unique) or ERC-1155 (limited editions).
 - **Minting:** Small GNOS or CISUM fee; metadata includes singer profile, voice model, song history, and cultivation data (IPFS-stored content hash & other meta data).
- **Revenue Mechanism:**
 - **Revenue Attribution:** All earnings from the virtual singer's songs, performances, or derivatives (ads, Top 100 fees, licensing) flow automatically to the TBA account.

- **Revenue Rights Transfer:** NFT trading transfers control of the TBA account and future revenue rights to the new owner.
- **Split:** Platform retains 10-20% fee; remainder (e.g., 70% of playback fees) goes directly to TBA. Users can withdraw funds anytime.
- **Ecosystem Integration:** Cultivation consumes CISUM or GNOS; milestones reward extra CISUM. TBA NFT holders gain DAO voting power boosts.

This positions Gnos.ai as a pioneer in AI + Web3 music, evolving users from creators to "virtual idol managers."

3.8 AI Music Upload Verification Module

To ensure content originality and legality, Gnos.ai implements an advanced AI-based upload verification system that scans every song before/after publication.

- **Detection Mechanisms:**
 - AI generation fingerprint analysis (spectrum, rhythm, diffusion artifacts) with >98% target accuracy.
 - Copyright matching against global audio fingerprint databases and third-party libraries.
 - Multimodal checks: lyrics originality (NLP), cover hash, upload metadata.
 - Workflow: Auto-scan on upload; approved songs receive "AI-Verified" badge and CISUM reward; rejected uploads return with suggestions.
- **Ecosystem Benefits:** Protects IP, enhances NFT value, and reinforces Gnos.ai as a clean AI music platform.

3.9 Intelligent Recommendation and Library Management System

The backend features an AI-powered recommendation engine and automated tag-based library system to improve content discovery and retention.

- **Recommendation Engine:**
 - Personalized feeds using collaborative filtering + Transformer models based on listening history, tags, social activity, and AI Agent data.
 - Real-time optimization from "earn while listening" behavior; integrates with Top 100 rankings.
- **Tag-Based Auto Library Categorization:**
 - AI generates 5-10 tags per song (style, mood, elements, language).
 - Dynamic libraries for search, filtering, and aggregation; tags enhance NFT metadata and third-party distribution.
 - User feedback loop improves accuracy over time.

These systems form Gnos.ai's intelligent core, driving quality, stickiness, and monetization.

Tokenomics

GNOS Governance Token

- **Total Supply:** 8,000,000,000 GNOS (ERC-20 compatible, deployed on FullOn Network mainnet).
- **Distribution:**
 - Community Rewards and Airdrops: 35% – For Top 100 listening rewards, invitations, and CISUM conversions. Linear vesting over 4 years, prioritizing FullOn native users.

- Team and Advisors: 18% – Locked 2 years, then quarterly vesting.
- Liquidity and Exchanges: 20% – Deep pools on FullOn DEX and cross-chain LPs.
- Ecosystem Development Fund: 18% – FullOn-specific grants (bridges, integrations, AI tools). DAO-governed.
- Marketing and Partnerships: 9% – Leveraging FullOn multi-chain interoperability.

- **Utility:**

- Governance: Staking on FullOn for DAO voting (upgrades, fees, cross-chain proposals).
- Rewards: Earned via invitations and rebates; multi-chain migration bonuses.
- Buyback and Burn: 20% of platform revenues automatically repurchased and burned on FullOn.

- **Inflation/Deflation:** No new minting; deflationary via burns. Cross-chain bridging incentives (2% from ecosystem fund).

Token Release Schedule

The release curve promotes long-term alignment with gradual supply increase and counteracting burns.

Quarter	Community	Team	Liquidity	Ecosystem	Marketing	Total Circulating
0	0	0	1,600,000,000	1,440,000,000	720,000,000	3,760,000,000
1	175,000,000	0	1,600,000,000	1,440,000,000	720,000,000	3,935,000,000
2	350,000,000	0	1,600,000,000	1,440,000,000	720,000,000	4,110,000,000
3	525,000,000	0	1,600,000,000	1,440,000,000	720,000,000	4,285,000,000
4	700,000,000	0	1,600,000,000	1,440,000,000	720,000,000	4,460,000,000
5	875,000,000	0	1,600,000,000	1,440,000,000	720,000,000	4,635,000,000
6	1,050,000,000	0	1,600,000,000	1,440,000,000	720,000,000	4,810,000,000
7	1,225,000,000	0	1,600,000,000	1,440,000,000	720,000,000	4,985,000,000
8	1,400,000,000	0	1,600,000,000	1,440,000,000	720,000,000	5,160,000,000
9	1,575,000,000	180,000,000	1,600,000,000	1,440,000,000	720,000,000	5,515,000,000
10	1,750,000,000	360,000,000	1,600,000,000	1,440,000,000	720,000,000	5,870,000,000
11	1,925,000,000	540,000,000	1,600,000,000	1,440,000,000	720,000,000	6,225,000,000
12	2,100,000,000	720,000,000	1,600,000,000	1,440,000,000	720,000,000	6,580,000,000
13	2,275,000,000	900,000,000	1,600,000,000	1,440,000,000	720,000,000	6,935,000,000
14	2,450,000,000	1,080,000,000	1,600,000,000	1,440,000,000	720,000,000	7,290,000,000
15	2,625,000,000	1,260,000,000	1,600,000,000	1,440,000,000	720,000,000	7,645,000,000
16	2,800,000,000	1,440,000,000	1,600,000,000	1,440,000,000	720,000,000	8,000,000,000

CISUM Points System

- **Non-Transferable Utility Token:** Earned through daily platform activities.

- **Earning Mechanisms:**
 - Creation: Points for uploading verified AI songs.
 - Listening: "Earn while you listen" – proportional to playtime.
 - Social: Likes, shares, comments, and other engagement.
- **Utility:** Redeem for premium AI tools, exclusive events, or convert to GNOS at set milestones.
- **Supply:** Uncapped but algorithmically controlled with periodic burns to maintain balance.

Economic Model

The dual-token flywheel: CISUM drives daily engagement and micro-interactions; GNOS provides long-term governance and value accrual. Deflationary pressure from GNOS burns supports sustainable growth.

Funding Plan

To support FullOn Network deployment and ecosystem expansion, Gnos.ai adopts a staged fundraising approach targeting a total of \$50 million across rounds, combining GNOS tokens and equity.

- **Seed Round:** Target \$10 million (2026 Q4). Investors receive 5% GNOS allocation (from ecosystem fund), 1-year lock. Funds for FullOn mainnet launch, AI verification, and wallet integrations.
- **Series A:** Target \$20 million (2027 Q4). Investors receive 8% GNOS (2-year vesting). Focus on mobile apps, cross-chain bridges, and marketing.
- **Series B and Beyond:** Target \$20 million+ (2028+). Remaining ecosystem fund allocation for global scaling, advanced TBA features, and cross-chain partnerships.
- **Mechanisms:**
 - Early investor GNOS discounts (20-30%).
 - Fund allocation: 30% FullOn infrastructure, 20% cross-chain development, remainder operations and community.
 - Investor GNOS requires minimum 6-month staking for DAO participation.
 - Compliance: Global regulations (SEC/KYC); transparent via FullOn framework. Investments carry risk.

Revenue Models

For Creators

- Platform advertising revenue share.
- NFT secondary sale royalties (5-10% perpetual).
- Top 100 playback fees (70% to creator).
- Third-party syndication and library inclusion revenue.
- Secondary usage/licensing fees.
- Additional streams (crowdfunding, fan support).

For the Platform

- Advertising revenue.
- NFT minting and trading fees (2-5%).
- Third-party upload commissions.
- Top 100 playback fee share (30%).
- Secondary usage fee share (20%).
- Premium features, API access, sponsorships.

20% of all platform revenue funds GNOS buyback and burn.

For Users

- Earn CISUM through listening, curation, and engagement.
- Invitation rewards in GNOS and CISUM (RWID phone verification).
- Consumption rebates in GNOS.
- Staking GNOS for yield from platform revenue.

Roadmap

2026 Q1 – 2026 Q2 Genesis Phase

- Closed beta and creator invitation program.
- Core AI music generation tool V1 launch.
- GNOS token and core contracts deployed & audited on FullOn Network.
- ERC-721/1155 NFT minting and basic marketplace.
- RWID phone verification + invitation system.
- Initial CISUM mining and "earn while listening" campaigns.
- Multi-chain wallet integration.
- Seed round funding and FullOn deployment.

2026 Q3 – 2026 Q4 Ignition Phase

- Public registration and mobile apps (iOS & Android) launch.
- Top 100 paid preview mechanism (charge after 10 seconds).
- Third-party platform syndication preparation.
- GNOS governance DAO activation.
- 20% revenue auto buyback & burn implementation.
- Initial brand ads and sponsorships.
- Basic AI Agent cultivation tool (virtual singer V1).
- AI upload verification V1 and basic recommendation engine.
- Series A funding for cross-chain integration.

2027 Q1 – 2027 Q4 Expansion Phase

- Advanced AI tools: real-time collaboration, voice cloning, emotion control.
- Secondary creation and sampling licensing market.
- Deep integration with major NFT marketplaces.
- GNOS staking and liquidity mining.
- Full multi-chain support.
- First Gnos Creator Awards.
- TBA NFT launch: virtual singer minting, revenue binding, trading.
- Advanced AI Agent features (3D visuals, social modules).
- FullOn cross-chain interoperability with Ethereum/Solana etc.
- Enhanced tag library and personalized recommendations.

2028 and Beyond Ecosystem Maturity Phase

- Establish global AI-native music creation standard.
- Launch Gnos Protocol for open integration.
- Achieve sustainable deflationary model for GNOS.

- On-chain music copyright registration and automated global revenue distribution.
- Evolve into foundational infrastructure for AI-generated music creation and consumption.

Note: The roadmap is subject to dynamic adjustment based on market feedback, technical progress, regulation, and community governance. User value and creator earnings remain the core decision drivers.

Risks and Disclaimers

- **Market Risks:** Cryptocurrency volatility; GNOS value may fluctuate.
- **Regulatory Risks:** Compliance with evolving laws on AI, NFTs, and music rights.
- **Technical Risks:** Potential bugs in AI or blockchain; mitigated by audits.
- **No Guarantees:** This whitepaper is for informational purposes only. Investments involve risk. Consult professionals.

Gnos.ai invites creators, listeners, and innovators to join the revolution. Visit gnos.ai or follow our updates for more.