

Gnos.ai Whitepaper

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 CISUM (points) for in-platform rewards. 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and figuratively—by creating a decentralized, AI-centric platform where "gnos" symbolizes a backward glance at outdated models to forge a forward-thinking ecosystem.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 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:

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.

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. 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.

4. Blockchain Integration

- **NFT Marketplace:** Built on Ethereum-compatible chains (e.g., Polygon for low fees). Users mint songs as NFTs (ERC-721 for one-of-a-kind or ERC-1155 for editions), with metadata including audio files, lyrics, and covers stored on IPFS/Arweave.
- **Smart Contracts:** For minting, trading, governance voting, and automated revenue distribution. Audited for security.
- **Wallet Integration:** Support for MetaMask, WalletConnect, and RWID (Real-World ID) accounts linked to phone numbers for verified invitations and rewards.

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.

6. User Flows

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

Tokenomics

GNOS Governance Token

- **Total Supply:** 8,000,000,000 GNOS.
- **Distribution:**
 - 40% Community Rewards and Airdrops (vested over 4 years).
 - 20% Team and Advisors (locked for 2 years, vested quarterly).
 - 15% Liquidity and Exchanges.
 - 15% Ecosystem Development Fund.
 - 10% Marketing and Partnerships.
- **Utility:**
 - Governance: Staking GNOS to vote on platform upgrades, fee structures, and partnerships.
 - Rewards: Earned via invitations, consumption rebates, and staking yields.
 - Buyback and Burn: 20% of all platform revenues (from ads, fees, etc.) are used to repurchase and burn GNOS, reducing supply and increasing scarcity.
- **Inflation/Deflation Mechanism:** No additional minting post-launch; deflationary through burns.

####CISUM (Points) System

- **Non-Transferable Utility Token:** Earned through daily activities like listening, creating, and engaging.
- **Earning Mechanisms:**
 - Creation: Points for uploading verified AI songs.
 - Listening: "Earn while you listen" – points proportional to playtime.
 - Social: Points for likes, shares, and comments.
- **Utility:** Redeem for premium features (e.g., advanced AI tools), entry to exclusive events, or convert to GNOS at milestones.
- **Supply:** Uncapped but algorithmically adjusted to prevent inflation, with periodic burns based on ecosystem health.

Economic Model

The dual-token system creates a flywheel: CISUM drive daily engagement, while GNOS provides long-term value and governance. Simulations project sustainable growth with deflationary pressures on GNOS.

Revenue Models

For Creators

Creators monetize through diverse, transparent streams, ensuring fair compensation for AI-generated content:

- **Platform Advertising Revenues:** Share of ad income from song plays and profile views.
- **NFT Transactions:** Royalties on secondary sales (e.g., 5-10% perpetual royalty baked into smart contracts).
- **Top 100 Rankings:** Songs in global Top 100 charge for plays beyond 10 seconds; creators receive 70% of fees.
- **Third-Party Platform Uploads:** Revenues from ads when songs are syndicated to external platforms (e.g., Spotify integrations).
- **Third-Party Library Inclusion:** Fees for songs added to external music libraries or databases.
- **Secondary Development Usage Rights:** Licensing fees for remixing, sampling, or using in games/apps, enforced via blockchain.
- **Other:** Crowdfunding, merchandise ties, and fan donations.

For the Platform

Gnos.ai sustains operations and growth through:

- **Platform Advertising Revenues:** Display, video, and sponsored content ads.
- **NFT Transaction Fees:** 2-5% on minting and trades.
- **Third-Party Platform Uploads:** Commission on syndicated ad revenues.
- **Top 100 Song Playback Fees:** 30% retained from charges.
- **Secondary Development Usage Fees:** 20% platform cut on licensing.
- **Other:** Premium subscriptions, API access fees, and event sponsorships.

20% of all revenues fund GNOS buyback and burn, aligning platform success with token holders.

For Users (Listeners and Participants)

- **EarnCISUM:** Accumulate points by listening, curating playlists, and engaging socially.
- **Invitation Rewards:** Earn GNOS andCISUM for inviting new users via RWID-linked phone numbers (to prevent bots).
- **Consumption-Based GNOS Rewards:** Rebates on in-platform spends (e.g., NFT buys, premium tools).
- **Staking and Yield:** Lock GNOS for APY boosts from platform revenues.

Roadmap

Phase 1: Launch (Q1 2026)

- Beta release of AI tools and social features.
- GNOS token launch and initial airdrops.
- NFT minting integration.

Phase 2: Growth (Q2-Q3 2026)

- Full mobile apps and Top 100 rankings.
- Partnerships with third-party platforms.
- Governance DAO activation.

Phase 3: Expansion (Q4 2026+)

- Advanced AI features (e.g., collaborative generation).
- Global marketing and user acquisition.
- Integration with metaverses and Web3 ecosystems.

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; investments involve risk. Consult professionals.

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