

TECHNICAL WHITEPAPER — VERSION 2.4

Vyniq Chain

Vyniq Labs

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Disclaimer: This whitepaper is for informational purposes only and does not constitute investment advice. VYN is a utility token designed for use within the Vyniq Chain ecosystem. The VYN token has not been deployed on any network. No mainnet exists. Many features described herein are aspirational and subject to change.

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1. Abstract

Vyniq Chain is a Layer 2 blockchain designed from the ground up for mobile-first blockchain participation, anchored to BNB Chain for settlement finality. Version 2 introduces a fully integrated **SocialFi ecosystem** that transforms the chain into a decentralized social platform with creator economy, reputation systems, and community-driven incentives.

The protocol addresses a fundamental gap in the blockchain industry: while over 60% of global web traffic originates from mobile devices, every major blockchain architecture remains optimized for desktop and server-class hardware. Vyniq Chain bridges this gap with a mobile-first architecture that now extends into the social networking space, enabling users to earn, create, and govern — all from a smartphone.

The protocol employs a **Proof-of-Authority (PoA) consensus** model, providing efficient block finality through a set of authorized validators. The long-term upgrade path targets a **Mobile Node Assisted Validation Layer**, where smartphones can participate meaningfully in network validation — not merely as light clients, but as active contributors to consensus.

Vyniq Chain is built on an **Ed25519 native stack**, delivering approximately 3x faster signature verification than ECDSA-based chains with smaller signatures and lower power consumption — critical advantages for mobile devices. The VYN token features a fixed supply of 10 billion with deflationary mechanics including a 50% fee burn rate. Community rewards are distributed from the Community & Airdrop allocation.

The SocialFi layer adds token-gated communities, creator monetization, on-chain reputation, and community rewards — all deeply integrated with the underlying Layer-2 blockchain infrastructure. Users earn VYN tokens through social participation, content creation, and community engagement.

The project is currently in active development with a functional blockchain core, operational RPC endpoint, mobile wallet under testing, SocialFi platform in design, and an open-source codebase. This whitepaper presents the full protocol design, SocialFi architecture, tokenomics, market analysis, ecosystem strategy, governance framework, and phased roadmap.

2. Vision & Mission

2.1 The North Star

Vyniq Chain's long-term vision is a blockchain network where a smartphone in Lagos, Jakarta, or Sao Paulo can participate meaningfully in validation, social interaction, and economic opportunity — not merely as a light wallet trusting full nodes, but as an active network participant with the ability to create, earn, and govern.

2.2 Why This Matters

The blockchain industry has achieved remarkable technical progress: scalable execution environments, sophisticated proving systems, and billions of dollars in value secured. Yet the user experience remains

fundamentally desktop-centric. In emerging markets — Southeast Asia, Latin America, Africa — the smartphone is not just the primary device; it is often the *only* device.

Simultaneously, the social media landscape is dominated by centralized platforms that extract value from user content, control algorithmic distribution, and monetize user data without fair compensation. Web3 SocialFi represents a paradigm shift where users own their content, reputation, and social graph.

Vyniq Chain unifies these two movements: mobile-first blockchain infrastructure with a built-in SocialFi ecosystem.

2.3 Design Principles

Principle	Implication
Mobile-first, not mobile-ported	Every protocol decision is evaluated through mobile constraints — bandwidth, battery, processing, connectivity
Social-by-default	Every wallet is a social profile; every transaction can carry social context
Progressive decentralization	Consensus uses PoA with planned evolution toward mobile-assisted validation
Creator-first economics	Value flows to content creators and community contributors
Minimal viable trust	Users should not need to trust full nodes; light clients verify independently
Open-source by default	All protocol code is MIT-licensed; community contributions welcome

2.4 The BNB Chain Relationship

Vyniq Chain is designed as a complementary L2 to BNB Chain. BNB Chain provides:

- **Settlement finality** — Fast, low-cost transaction finality for bridged assets
- **Security anchor** — Economic security for the L2 bridge
- **Ecosystem access** — A large existing user and developer base
- **Low transaction costs** — Consistent with Vyniq Chain's emerging-market focus

In return, a successful Vyniq Chain would drive new user acquisition, transaction volume, and use case expansion to the BNB ecosystem. The bridge to BNB Chain is a **future roadmap item** and has not yet been built.

3. The Market Opportunity

3.1 The Mobile Paradox

The blockchain industry has achieved remarkable technical progress, yet the user experience remains fundamentally desktop-centric.

Key statistics:

- **6+ billion** smartphone users globally
- **4+ billion** unbanked or underbanked individuals with mobile access
- **\$1.5+ trillion** in global remittance flows, largely to emerging markets
- **5+ billion** social media users globally
- **\$200+ billion** annual creator economy market value
- **< 1%** of blockchain transactions originate from mobile wallets that participate in network validation

SocialFi represents a \$200+ billion market opportunity at the intersection of social media and decentralized finance. Current social media platforms extract the majority of value from creator content. A blockchain-native SocialFi platform on a mobile-first L2 can capture this value and distribute it to users.

3.2 Target Markets

Primary: Emerging Markets

Region	Smartphone Penetration	Desktop Access	Social Media Usage	Crypto Awareness
Southeast Asia	70–85%	20–35%	Very High	Moderate and growing
Sub-Saharan Africa	45–65%	5–15%	High	Rapidly growing
Latin America	65–80%	25–40%	Very High	High
South Asia	55–75%	10–25%	High	Growing

Secondary: Creator Economy Participants

The global creator economy includes over 200 million content creators, with the top 1% earning over \$100K annually. The vast majority earn below the poverty line. Vyniq Chain’s SocialFi platform enables:

- Direct micropayments without platform intermediation
- Token-gated communities for exclusive content
- On-chain reputation portable across applications
- Transparent and fair revenue sharing

Tertiary: Mobile-First Developers

There are approximately 4 million Rust developers and 14 million TypeScript developers globally. Vyniq Chain’s modern technology stack and SocialFi APIs lower the barrier for developers building social dApps.

3.3 Market Size

Segment	Current Market	Projected (2029)
Global Blockchain Market	\$67 billion	\$163 billion
Creator Economy	\$200 billion	\$500+ billion
Social Media Advertising	\$600 billion	\$800+ billion
Mobile-First Blockchain Infra	< \$1 billion	\$10+ billion (underserved)

3.4 Competitive Landscape

Dimension	Vyniq Chain v2	Established L2s	Mobile-Focused (Celo)	SocialFi Platforms
L1 Anchor	BNB Chain	Ethereum	Celo (L1)	Varies
Mobile Validation	Research goal	Not supported	Not supported	N/A
SocialFi Built-in	Native	Not present	Not present	App-level only
Creator Economy	On-chain native	Not present	Not present	Centralized
On-chain Reputation	Native protocol	Not present	Not present	Application-level
Mobile UX	Native wallet + Social	Light clients	Light wallet	App-based
Signature Scheme	Ed25519 native	ECDSA	ECDSA	Varies
Smart Contracts	Planned	Full EVM	Full EVM	Varies

3.5 Key Differentiators

1. **Unified Mobile L2 + SocialFi** — First blockchain to integrate SocialFi at the protocol level with mobile-first design
2. **Ed25519 native stack** — End-to-end Ed25519 signatures across all layers
3. **Mobile validation ambition** — Researching smartphone consensus participation
4. **On-chain reputation protocol** — Portable, transparent, Sybil-resistant reputation
5. **Creator-native economics** — Fair value distribution through protocol-enforced mechanisms

3.6 Competitive Comparison

Feature	Vyniq Chain	BNB Chain	Base	Polygon	Arbitrum
Consensus	PoA (mobile validation planned)	PoSA	Optimistic Rollup	PoS	Optimistic Rollup
Mobile-First	Native design	Desktop-first	Desktop-first	Desktop-first	Desktop-first
SocialFi	Protocol-level integrated	Not native	Not native	Not native	Not native
Launchpad	Built-in	BNB Launchpad	Not native	Not native	Not native
DEX	Built-in decentralized exchange	PancakeSwap (external)	External DEXs	QuickSwap (external)	External DEXs
Wallet	Native mobile wallet	MetaMask / Trust Wallet	MetaMask	MetaMask / Trust Wallet	MetaMask
Explorer	Built-in with SocialFi analytics	BscScan	Basescan	Polygonscan	Arbiscan
Community Incentives	On-chain creator rewards + reputation	Limited	Limited	Limited	Limited

Feature	Vyniq Chain	BNB Chain	Base	Polygon	Arbitrum
Signature Scheme	Ed25519 (3x faster)	ECDSA	ECDSA	ECDSA	ECDSA
L2 Anchor	BNB Chain (planned)	L1	Ethereum	Ethereum	Ethereum

4. Protocol Architecture

4.1 High-Level Design

Vyniq Chain is a modular L2 appchain with five primary layers:

1. **Execution Layer** — Handles transaction validation, state management, and block production
2. **Consensus Layer** — PoA-based with planned upgrade to Mobile Node Assisted Validation
3. **Networking Layer** — libp2p-based P2P network for block and transaction gossip
4. **SocialFi Layer** — Decentralized social platform, profiles, reputation, creator economy
5. **Bridge Layer** — Planned connection to BNB Chain for asset settlement

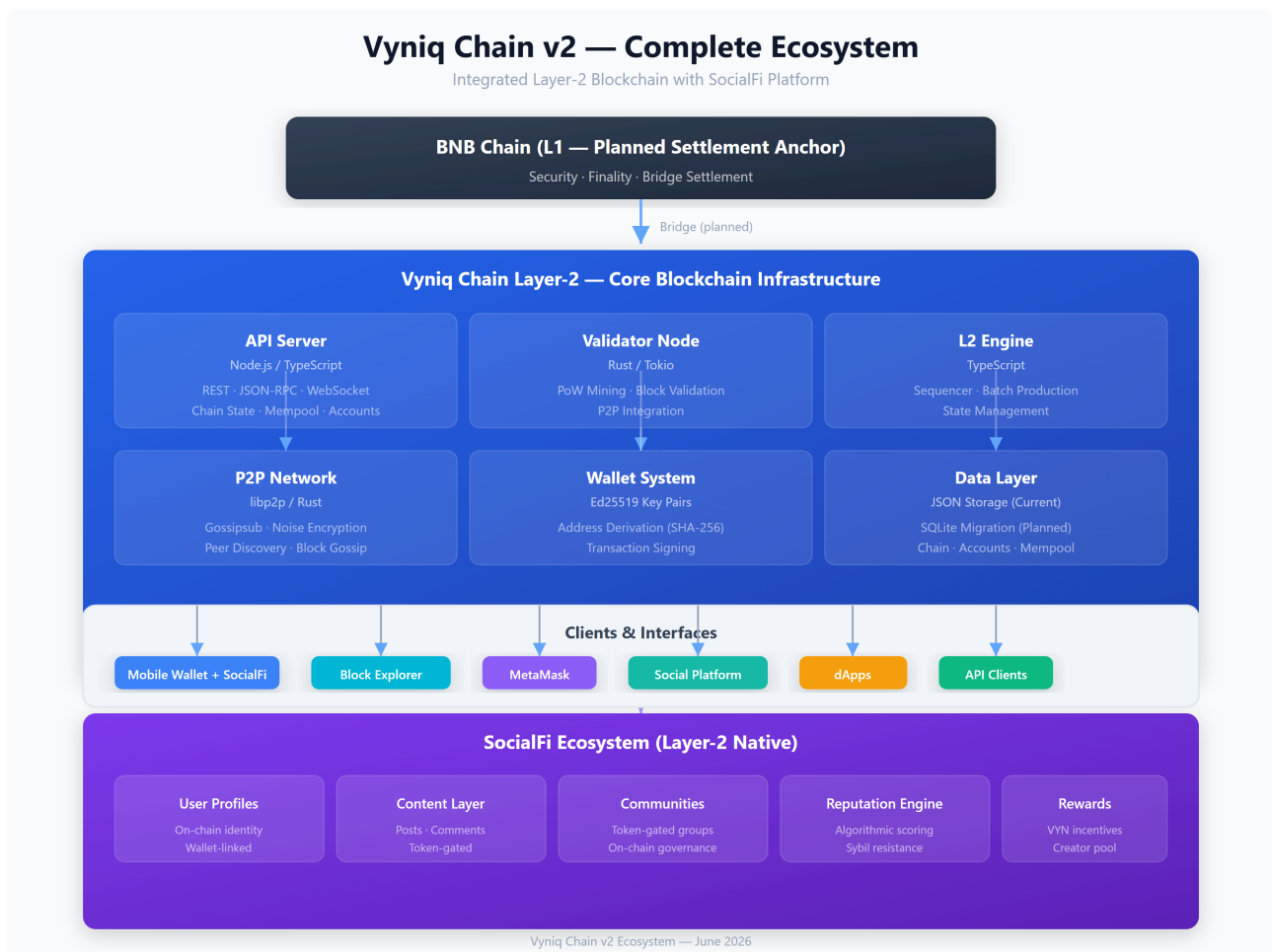


Figure: Vyniq Chain Ecosystem Architecture

Figure 1: Vyniq Chain v2 ecosystem architecture showing the integrated SocialFi platform alongside core blockchain infrastructure.

4.2 Component Overview

Component	Implementation	Status	Role
API Server	TypeScript / Node.js	Operational	REST API, JSON-RPC, WebSocket, chain state, Social APIs
Validator Node	Rust / Tokio	Functional	Block validation, PoA consensus, P2P integration
P2P Network	Rust / libp2p	Functional	Gossipsub mesh, Noise encryption, peer discovery
L2 Sequencer	TypeScript	Functional	Batch production, state management at 3s intervals
Mobile Wallet	React Native	Testing	Non-custodial wallet: send/receive, QR, staking, SocialFi
Block Explorer	React / Vite	In development	Public chain explorer with SocialFi analytics
SocialFi Platform	TypeScript / React Native	In design	Profiles, posts, communities, reputation, rewards
Reputation Engine	TypeScript	In design	On-chain scoring, Sybil resistance, trust metrics
Mobile Light Node	Rust	Stub	Future lightweight validation client
BNB Chain Bridge	Not built	Future	L1 settlement and asset bridging

4.3 Updated System Architecture

```

BNB Chain (L1 – Planned Settlement Anchor)
|
| Bridge (planned – not yet built)
|
Vyniq Chain (L2 – Execution, Consensus, SocialFi)
|
+-- API Server: REST API, JSON-RPC, WebSocket, Social APIs
+-- L2 Engine: Sequencer, batch proofs, state management
+-- Validator Node: PoA consensus, P2P gossip
+-- P2P Network (libp2p): gossipsub mesh, peer discovery
+-- SocialFi Platform: Profiles, posts, communities, reputation
+-- Reputation Engine: On-chain scoring, trust metrics
+-- Mobile Light Node: Future lightweight validation
+-- Mobile Wallet (Social): Send/receive, SocialFi, staking

```

4.4 Transaction Lifecycle (Updated)

The current transaction lifecycle on Vyniq Chain operates as follows:

- 1. Wallet Generation** — User generates an Ed25519 keypair; address derived from SHA-256 of public key
- 2. Transaction Creation** — User constructs transaction with sender, receiver, amount, nonce, fee
- 3. Signing** — Transaction signed with Ed25519 private key
- 4. Submission** — Submitted via REST API (`POST /transaction/signed`) or JSON-RPC (`eth_sendRawTransaction`)

5. **Validation** — API Server validates: address format, positive amount, sufficient balance, nonce uniqueness, Ed25519 signature validity, deduplication, self-send prohibition
6. **Mempool Entry** — Validated transaction enters pending transaction pool
7. **Block Production** — Block produced by authorized validators (~2 second target)
8. **Chain Append** — Block appended to chain with Merkle root and parent hash
9. **Gossip** — Block propagated through libp2p P2P network
10. **SocialFi State Update** — If transaction includes social actions (post, tip, community action), SocialFi state is updated

4.5 User Data Flow



4.6 Wallet-to-Social Linking

Every Vyniq Chain wallet is natively linked to a SocialFi profile:

- **Address → Profile:** Every address has an associated social profile (optional)
- **Profile Data:** Username, avatar, bio, reputation score, follower count
- **Social Actions:** Tips, likes, follows, community membership recorded on-chain
- **Cross-Platform:** Same identity across wallet, SocialFi, and future dApps

5. SocialFi Ecosystem

5.1 Overview

The SocialFi ecosystem is Vyniq Chain's flagship feature in Version 2. It transforms the blockchain from a pure financial infrastructure into a decentralized social platform where users create content, build communities, earn rewards, and develop portable on-chain reputation.

5.2 Platform Architecture

SocialFi Platform (Layer-2 Native)

- +++ User Profiles – On-chain identity with customizable attributes
- +++ Content Layer – Posts, media, comments with optional token-gating
- +++ Communities – Token-gated groups with member governance
- +++ Reputation Engine – Algorithmic scoring based on on-chain activity
- +++ Reward System – VYN token incentives for contributions
- +++ Wallet Integration – Native wallet-to-social linking
- +++ Future Messaging – Encrypted peer-to-peer messaging
- +++ Future AI Moderation – Decentralized content moderation

5.3 User Profiles

Feature	Description	On-chain Status
Username	Unique, human-readable identifier	On-chain (mapped to address)
Avatar	IPFS-hosted profile image	IPFS reference on-chain
Bio	Short text description	On-chain (updatable)
Reputation Score	Algorithmic trust metric	Computed on-chain
Follower Count	Number of followers	On-chain state
Content History	Posts, comments, media	On-chain references
Badges	Achievement and verification badges	On-chain tokens

5.4 Creator Economy

Vyniq Chain’s creator economy enables direct value exchange between creators and their audiences:

Mechanism	Description	Token Flow
Content Tips	Direct VYN tipping on posts	Consumer → Creator
Token-Gated Content	Exclusive content for token holders	Creator receives access fees
Subscription Tiers	Recurring VYN subscriptions	Fan → Creator (recurring)
NFT Media	Mint posts as collectible NFTs	Collector → Creator
Community Revenue	Revenue sharing within communities	Platform → Community → Creators
Creator Grants	Protocol-funded creator support	Treasury → Creator

5.5 Reputation System

The reputation engine provides a transparent, Sybil-resistant, and portable trust metric:

Score Components:

Component	Weight	Description
Transaction History	25%	Age and volume of on-chain activity
Social Contributions	25%	Content quality, engagement received
Community Participation	20%	Active membership in communities
Staking & Governance	15%	Network participation through staking
Verification	15%	Verified identity or credentials

Component	Weight	Description
Peer Endorsements	5%	Reputation from verified peers

Sybil Resistance:

- Reputation is non-transferable
- Score decay over inactivity periods
- Minimum staking requirement for weighted voting
- Graph-based Sybil detection (Future)

5.6 Community Rewards

Activity	Reward Type	Distribution
Content Creation	VYN tokens	Per-engagement rewards pool
Curation (likes, shares)	VYN tokens	Algorithmic distribution
Community Moderation	VYN + Badges	Contribution-weighted
Referral & Growth	VYN tokens	Tiered referral program
Proposal Participation	VYN + Reputation	Governance participation
Early Adopter Bonus	VYN + NFT Badges	Time-limited bonuses

5.7 Token Incentives

The SocialFi reward pool draws from the Community & Airdrop (10%) and Ecosystem Development (15%) allocations:

Pool	Allocation	Distribution Mechanism
Creator Pool	20% of ecosystem	Per engagement, quality-weighted
Community Pool	30% of ecosystem	Participation-weighted distribution
Reputation Pool	15% of ecosystem	Score-based distribution
Staking Rewards	20% of ecosystem	Stakers of VYN (Phase 2+)
Governance Pool	15% of ecosystem	Active governance participants

5.8 Wallet Integration

The Vyniq mobile wallet serves as the primary interface for SocialFi:

- **Unified Dashboard** — Balance, social feed, notifications in one app
- **Social Login** — Wallet-as-identity for SocialFi platform
- **In-App Tipping** — One-tap VYN tips on posts
- **Profile Management** — Edit profile, view reputation, track rewards
- **Community Browser** — Discover and join token-gated communities
- **Push Notifications** — Real-time social and transaction alerts

5.9 Future Messaging

Encrypted peer-to-peer messaging is planned as a future SocialFi feature:

- **End-to-end encryption** using libp2p Noise protocol
- **Wallet-based identity** — No separate registration
- **Offline messaging** via mobile node relay
- **Group chats** for community communication
- **Message fees** — Optional VYN micro-fees for spam prevention

5.10 Future AI-Powered Moderation

Content moderation at scale requires automated assistance:

- **On-chain moderation** — Community-voted content flagging
- **AI-assisted filtering** — Future integration with decentralized AI models
- **Reputation-weighted moderation** — Trusted moderators have weighted votes
- **Appeal mechanism** — Transparent appeal process for disputed content
- **Privacy-preserving analysis** — Content analyzed without compromising user data

5.11 Mobile-First Social Experience

Every SocialFi feature is designed for mobile-first usage:

- **Offline-first** — Browse cached content, actions sync when online
- **Low bandwidth** — Optimized for 3G/4G networks
- **Push notifications** — Real-time alerts for social interactions
- **Touch-optimized** — Gesture-based tipping, swipe navigation
- **Minimal data usage** — Configurable media quality and caching

6. Consensus Model

6.1 Current Consensus: Proof of Authority (PoA)

Vyniq Chain operates using **Proof of Authority consensus**, where authorized validators produce blocks and attest to their validity.

Current Parameters:

Parameter	Value
Consensus Algorithm	Proof of Authority (PoA)
Block Target Time	~2 seconds
Validator Set	Authorized validators
Block Rewards	None — validators do not receive newly minted tokens
Fee Distribution	50% burned, 50% to validators

6.2 Rationale for PoA

1. **Efficiency** — No energy-intensive mining; blocks produced by known validators
2. **Fast finality** — Authorized validators produce blocks deterministically
3. **Low barrier for users** — No mining hardware required to participate in the network
4. **Mobile-friendly** — Lightweight validation suitable for mobile-assisted consensus (Phase 3)

6.3 Planned Upgrade Path

Phase	Consensus Model	Validator Set	Timeline	Status
Phase 1 (Current)	Proof of Authority (PoA)	Authorized validators	2026	Functional
Phase 2 (Planned)	PoA with Mobile Validation	7–21 authorized + mobile validators	2027–2028	Research
Phase 3 (Long-term)	Mobile Node Assisted Validation	100+ full + mobile validators	2029+	Research

7. Tokenomics

7.1 The VYN Token

VYN is the native token of the Vyniq Chain. Its expanded core functions:

1. **Network security** — Staked by validators (Phase 2+)
2. **Transaction fees** — Gas for network operations
3. **Value accrual** — 50% of fees permanently burned
4. **Governance** — Staked VYN for protocol governance (Phase 3+)
5. **Creator rewards** — Incentives for content creation
6. **Community incentives** — Rewards for social participation
7. **Reputation rewards** — Staking for reputation weight

Important: The VYN token is **conceptual** and has **not been deployed on any network**. All tokenomics described herein represent a design proposal subject to revision.

Initial Tokenomics: The parameters below represent the proposed initial tokenomics at mainnet launch. These are subject to adjustment based on mainnet performance, validator participation, user growth, community governance, and ecosystem expansion. The design allows for future optimization without altering the project’s long-term vision.

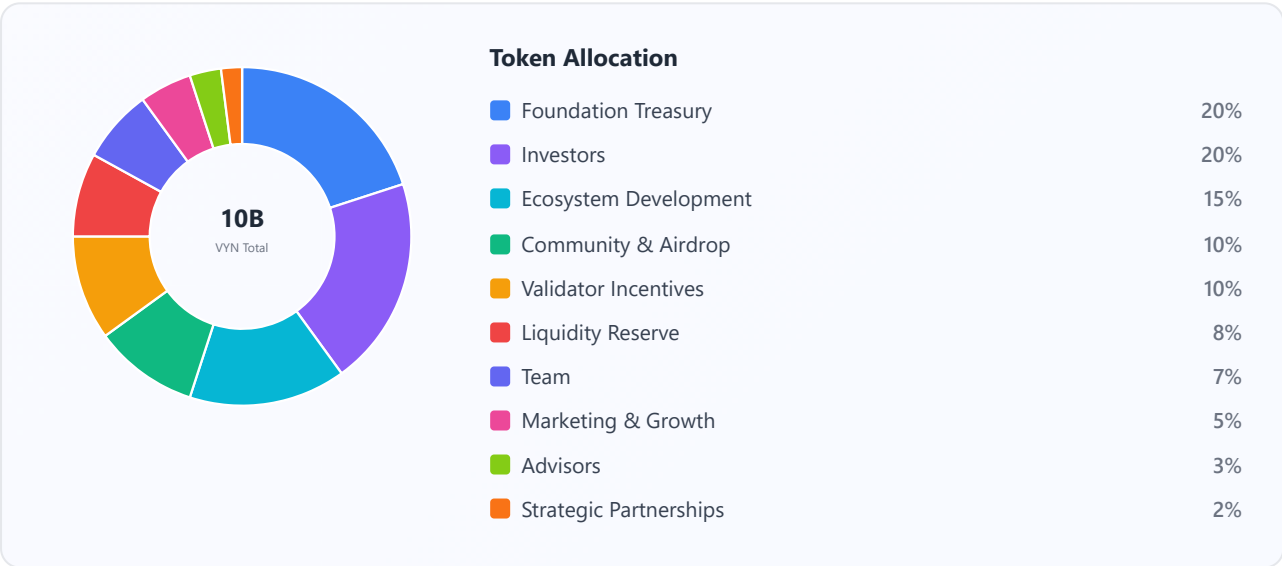
7.2 Token Supply

Property	Value
Maximum Supply	10,000,000,000 VYN
Fee Burn Rate	50% of all transaction fees
Community Rewards	Distributed from Community & Airdrop allocation

7.3 Token Utility (Expanded)

Utility	Description	Activation
Gas	Transaction fees for network operations	Testnet / Mainnet
Staking	Secure network, earn rewards	Phase 2+
Governance	Vote on protocol parameters	Phase 3+
Creator Rewards	Earn VYN through content creation	SocialFi Launch
Community Incentives	Participate, moderate, curate	SocialFi Launch
Reputation Rewards	Stake VYN for reputation weight	SocialFi Launch
Tipping	Direct value transfer to creators	SocialFi Launch
Token-Gated Access	Access exclusive communities and content	SocialFi Launch
Premium Features	Unlock advanced SocialFi capabilities	SocialFi Launch

7.4 Token Allocation



Category	Allocation	Purpose
Foundation Treasury	20%	Protocol development, operational expenses, strategic initiatives
Investors	20%	Seed and private round contributors (subject to vesting)
Ecosystem Development	15%	Grants, integrations, developer incentives, SocialFi rewards
Community & Airdrop	10%	Community incentives, airdrops, participation rewards
Validator Incentives	10%	Block production rewards, validator ecosystem growth
Liquidity Reserve	8%	DEX liquidity, exchange listings, market making
Team	7%	Core team (subject to vesting and lockup)

Category	Allocation	Purpose
Marketing & Growth	5%	Partnerships, campaigns, brand awareness
Advisors	3%	Advisory contributors (subject to vesting)
Strategic Partnerships	2%	Ecosystem partnerships, integrations, collaborations

7.5 Token Vesting Schedule

All allocation categories are subject to vesting schedules designed to align long-term incentives and prevent market disruption at launch.

Recipient	Allocation	Cliff	Vesting Duration	TGE Unlock	Release Schedule
Team	7%	12 months	36 months (linear monthly)	0%	Monthly after cliff
Investors	20%	6 months	24 months (linear monthly)	0%	Monthly after cliff
Advisors	3%	6 months	24 months (linear monthly)	0%	Monthly after cliff
Foundation Treasury	20%	None	60 months (linear monthly)	Gradual release	Monthly, governed by foundation
Community & Airdrop	10%	None	Ongoing	Distributed per governance	As approved by governance
Ecosystem Development	15%	None	Ongoing	Distributed per governance	Grants, milestones, programs
Validator Incentives	10%	None	Ongoing	Distributed per governance	Validator rewards, ecosystem growth
Marketing & Growth	5%	None	Ongoing	As needed	Campaign-driven releases
Liquidity Reserve	8%	None	Ongoing	As needed	DEX and exchange provisioning
Strategic Partnerships	2%	None	Ongoing	As needed	Partnership-driven releases

Key Vesting Principles:

- **Team and Advisors** — Extended lockups demonstrate long-term commitment; no tokens accessible until cliff period ends
- **Investors** — Gradual release prevents sell pressure; aligns investor returns with protocol milestones

- **Foundation Treasury** — Structured release ensures sustainable funding without abrupt supply increases
- **Community & Ecosystem** — Distributed through governance-approved programs; no unilateral team control
- **Liquidity Reserve** — Released as needed to support healthy market depth on DEXs and exchanges
- **Validator Incentives** — Distributed to validators for block production and network security
- **Strategic Partnerships** — Released to fund ecosystem partnerships and integrations

7.6 Community Incentive Distribution

Community rewards are distributed from the **Community & Airdrop** (10%) and **Ecosystem Development** (15%) allocations. Unlike block reward emission schedules, Vyniq Chain does not mint new tokens through mining. All tokens are pre-allocated at genesis and distributed through defined programs.

Program	Source Allocation	Distribution Mechanism
SocialFi Creator Rewards	Ecosystem Development	Per-engagement, quality-weighted
Community Participation	Community & Airdrop	Activity-based distribution
Airdrops	Community & Airdrop	Snapshot-based, governance-approved
Developer Grants	Ecosystem Development	Proposal-based, milestone-driven
Staking Rewards	Ecosystem Development	Phase 2+, validator delegation

7.7 SocialFi Reward Flow

```

User Activity (post, like, comment, curate, moderate)
|
v
SocialFi Reward Algorithm
|
+-- Quality-weighted scoring (engagement, reputation, originality)
+-- Sybil resistance checks
+-- Daily/weekly reward pool allocation
|
v
VYN Token Distribution
|
+-- Creator Pool (40% of SocialFi allocation)
+-- Curator Pool (25% of SocialFi allocation)
+-- Community Pool (20% of SocialFi allocation)
+-- Reputation Pool (15% of SocialFi allocation)
|
v
User Wallet
|
+-- VYN balance updated
+-- Reputation score updated
+-- Activity history recorded

```

7.8 Circulating Supply Projections

Three scenarios are modeled:

1. **No staking, no fees** — Raw emission curve with no burn pressure
2. **30% staking, low fee volume** — Moderate participation scenario
3. **50% staking, high fee volume** — Target scenario with deflationary pressure

4. **SocialFi adoption scenario** — Additional burn from SocialFi transaction volume

The 50% fee burn mechanism is the primary deflationary lever: as network usage grows (including SocialFi transactions), the burn rate increases proportionally.

8. Technology Stack

8.1 Current Technologies (Production / Development)

Technology	Version	Component	Purpose
Node.js	18+	API Server, L2 Engine, Faucet	Runtime environment
TypeScript	5.x	API Server, L2 Engine, Explorer, Wallet	Type-safe development
Solidity	0.8+	Smart Contracts (Future)	Planned EVM compatibility
Rust	2021 edition	Core Chain, Validator Node, P2P, Mobile Node	High-performance blockchain core
PostgreSQL	16+	Data Storage (Future)	Planned scalable storage
Redis	7+	Caching (Future)	Performance optimization
REST API	—	All blockchain operations	Standard API interface
WebSocket	—	Real-time subscriptions	Live blockchain updates
JSON-RPC 2.0	—	MetaMask compatibility	Ethereum-compatible API
React Native	0.76+	Mobile Wallet	Cross-platform mobile app
React / Vite	18+ / 5+	Block Explorer	Frontend framework
Ed25519	RFC 8032	All layers	Digital signatures
libp2p	Latest	P2P Network	Peer-to-peer networking
SHA-256	—	Consensus integrity	Hash function for block hashing

8.2 SocialFi Technologies

Technology	Component	Purpose
TypeScript	SocialFi Platform	Full-stack social application
React Native	SocialFi Mobile	Cross-platform social app
Ed25519	Identity Layer	Wallet-linked profiles
REST API	Social APIs	Post, profile, community operations
WebSocket	Social Feeds	Real-time social updates
IPFS (Future)	Content Storage	Decentralized media hosting
AI SDK (Future)	Content Moderation	Automated content filtering

8.3 Future Technologies (Roadmap)

Technology	Purpose	Target
AI Moderation	Decentralized content moderation at scale	2027+
IPFS	Decentralized storage for SocialFi media content	2027+
Cross-chain Messaging	Interoperability with BNB Chain and other L1s	2027+
Decentralized Identity (DID)	Portable identity across Web3 applications	2028+
zk-Proof Integrations	Privacy-preserving reputation and transactions	2028+
Advanced Developer SDK	Comprehensive SDK for SocialFi dApp development	2027+
EVM Compatibility	Solidity smart contract support	2029+
SQLite / PostgreSQL	Scalable storage migration from JSON files	2026+

8.4 Technology Stack Diagram

```
PRESENTATION LAYER
  React Native (Mobile Wallet + SocialFi)
  React / Vite (Block Explorer)

API LAYER
  TypeScript (REST API, JSON-RPC, WebSocket, Social APIs)

CORE LAYER
  Rust (Core Chain, Validator, P2P, Mobile Node)
  TypeScript (L2 Engine, Sequencer, Reputation Engine)

DATA LAYER
  JSON Files (Current – Chain, Accounts, Mempool, SocialFi)
  SQLite / PostgreSQL (Planned – Scalable)
  IPFS (Planned – Content Storage)

FUTURE LAYER
  AI Moderation Engine
  Cross-chain Bridge (BNB Chain)
  zk-Proof Integration
  DID Framework
```

9. Business Model

9.1 Revenue Model

Vyniq Chain generates revenue through multiple diversified streams across the ecosystem:

Revenue Stream	Description	Model	Phase
DEX Trading Fees	Percentage fee on all token swaps executed through the built-in decentralized exchange	0.3% per swap, split between liquidity providers and protocol treasury	Mainnet
Launchpad Fees	Listing and token sale fees from projects launching on the Vyniq launchpad platform	2–5% of funds raised; listing fees for priority placement	Mainnet
Validator Service Revenue	Protocol fees from validator operations and delegation services	Commission on delegated staking rewards	Phase 2+
Network Transaction Fees	Base gas fees for all on-chain operations (transfers, SocialFi actions, smart contracts)	Variable, based on network demand; 50% burned, 50% to validators	Mainnet
Premium APIs	Tiered API access for developers and enterprises requiring enhanced throughput	Subscription (Monthly / Annual)	Mainnet
SocialFi Premium	Enhanced SocialFi features for creators and communities	Tiered subscription (VYN or fiat)	SocialFi Launch
Enterprise Solutions	Custom blockchain deployment, white-label SocialFi, consulting services	Project-based pricing	2027+
Ecosystem Services	Developer tools, analytics dashboards, indexing services	Freemium with premium tiers	2027+
Future Enterprise Integrations	API partnerships, branded chain deployments, institutional custody integrations	Custom licensing and revenue-share agreements	2028+

Revenue Sustainability Principles:

- **Protocol-owned liquidity** — VYN token emissions fund initial liquidity provisioning
- **Revenue reinvestment** — 30% of protocol revenue directed to ecosystem development
- **Treasury diversification** — Multi-asset treasury management for resilience
- **Deflationary pressure** — 50% fee burn ensures value accrual to token holders
- **Creator sustainability** — Platform fees capped at 5% of SocialFi transaction value

9.2 Fee Structure

Transaction Type	Base Fee	Burn (50%)	Validator (50%)
VYN Transfer	1 VYN	0.5 VYN	0.5 VYN
SocialFi Post	0.5 VYN	0.25 VYN	0.25 VYN

Transaction Type	Base Fee	Burn (50%)	Validator (50%)
Profile Update	2 VYN	1 VYN	1 VYN
Community Create	10 VYN	5 VYN	5 VYN
Smart Contract (Future)	Variable	50%	50%

9.3 Premium API Tiers

Tier	Requests/Day	Features	Price (USD/month)
Free	1,000	Basic chain queries	\$0
Developer	10,000	Full API + WebSocket	\$29
Professional	100,000	Priority support, advanced analytics	\$99
Enterprise	Unlimited	Dedicated infrastructure, SLA	Custom

9.4 SocialFi Premium Features

Tier	Price (VYN/month)	Features
Free	0 VYN	Basic profile, post, follow, tip
Creator	100 VYN	Analytics, promoted posts, priority support
Community	500 VYN	Custom community branding, advanced moderation tools
Enterprise	2,500 VYN	White-label SocialFi, dedicated API, analytics

10. Ecosystem Strategy

10.1 Ecosystem Pillars

Pillar	Objective	Key Initiatives
SocialFi Platform	Decentralized social experience	Profiles, communities, reputation, rewards
Developer Tools	Lower barrier for builders	TypeScript SDK, Rust SDK, SocialFi APIs, CLI tools
Mobile Wallet	Primary user interface	Unified finance + social in one app
Block Explorer	Chain + SocialFi transparency	Public explorer with SocialFi analytics
Testnet Incentives	Drive adoption and testing	Faucet, reward programs, creator micro-grants

10.2 Target Audiences

Audience	Focus	Value Proposition
Content Creators	SocialFi platform	Earn VYN through content, portable reputation, fair economics
Rust Developers	Core protocol contributions	Modern Rust with Ed25519, libp2p, Tokio
TypeScript Developers	API, tooling, Social dApps	Familiar stack, SocialFi SDK, rapid iteration
Mobile Developers	Wallet and mobile dApps	React Native toolkit, SocialFi integration
Node Operators	Validator infrastructure	Low requirements, clear setup documentation
Community Managers	Community growth	Token-gated communities, moderation tools, analytics

10.3 Primary Use Cases

SocialFi & Creator Economy

The flagship use case. Creators publish content, build communities, earn VYN through engagement, and develop portable reputation. Users discover content, tip creators, and participate in token-gated communities — all from their mobile wallet.

Gaming

Blockchain gaming remains desktop-dominated. Vyniq Chain's mobile-first architecture enables in-game asset ownership via mobile wallet, low-fee microtransactions, and SocialFi integration for gaming communities.

Remittances and Payments

With \$1.5+ trillion in global remittance flows, mobile-first blockchain payments offer lower fees than traditional corridors, settlement in minutes, and no bank account requirement.

Decentralized Communities

Token-gated communities powered by the SocialFi layer enable membership-based access, community treasuries, and democratic governance — all on-chain.

11. Community Growth

11.1 Growth Philosophy

Vyniq Chain's community strategy prioritizes **creators, developers, and node operators** over broad consumer marketing. The goal is a technical and creative community capable of building on, contributing to, and growing the protocol.

11.2 Growth Projections

Metric	Month 0	Month 3	Month 6	Month 9	Month 12
GitHub Stars	20	50	150	320	500
Testnet Wallets	5	20	50	120	200
SocialFi Profiles	0	10	40	100	200
Independent Validators	1	1	3	4	5+
Community Members	50	100	500	800	1,000
Developer Projects	0	2	5	7	10
SocialFi Communities	0	3	8	15	25

11.3 Marketing Channels

Channel	Strategy	Budget
GitHub	Open-source development, issues, discussions	Organic
Telegram	Developer and creator community, support	Organic
Twitter/X	Technical updates, milestones, SocialFi content	Organic
YouTube	Technical and SocialFi walkthroughs	\$2,000
Dev.to / Medium	Tutorials and architecture deep-dives	Organic
BNB Chain Events	Hackathon participation, networking	\$1,000
Creator Outreach	SocialFi creator onboarding program	\$2,000

11.4 Community Activities

Activity	Budget	Timeline	Target Outcome
Technical blog series (6–8 posts)	\$1,500	Months 1–6	Technical thought leadership
SocialFi creator onboarding	\$2,000	Months 3–9	20+ active creators on platform
Developer documentation	\$2,000	Months 1–4	Comprehensive API + SocialFi guides
Video tutorials (5–7)	\$2,000	Months 3–8	Visual onboarding and demos
Testnet + SocialFi campaign	\$3,000	Months 7–9	100+ wallets, 40+ SocialFi profiles
Developer micro-grants	Ecosystem allocation	Months 7–9	5 experimental SocialFi projects

12. Governance Model

12.1 Governance Philosophy

Vyniq Chain's governance model evolves with the protocol. In early stages, development direction is determined by the core team with community input. Full on-chain governance is a future roadmap item.

12.2 Governance Phases

Phase 1: Core Team Stewardship (Current)

- Core team makes technical and strategic decisions
- Community input via GitHub discussions, Telegram, AMAs
- No on-chain governance; VYN token not deployed

Phase 2: Foundation Governance (Planned — 2027+)

- Vyniq Foundation established as non-profit steward
- Multi-sig treasury controlled by foundation board
- Community advisory board with elected representatives
- Community and SocialFi stakeholder representation

Phase 3: On-Chain Governance (Planned — 2029+)

- VYN stakers vote on protocol parameters, treasury, upgrades
- Proposal system with quorum requirements and voting periods
- SocialFi-specific governance parameters
- Emergency pause mechanism for security incidents

12.3 Governance Parameters (Phase 3 Design)

Parameter	Proposed Value	Rationale
Minimum Proposal Stake	1,000,000 VYN	Prevents spam
Voting Period	7 days	Balanced participation
Quorum Requirement	20% of staked supply	Meaningful participation
Execution Timelock	48 hours	User reaction window
Emergency Council	5-of-9 multi-sig	Security responses

12.4 SocialFi Governance

Parameter	Description
Community Treasury	Communities can create and manage on-chain treasuries
Content Moderation	Community-voted moderation with reputation weighting
Reward Distribution	Communities vote on reward pool allocation
Protocol Parameters	SocialFi fee structure, reward rates subject to governance

13. Funding Strategy

13.1 Current Status

Vyniq Labs is an independent early-stage blockchain project led by a team of two. The project is open-source with contributors joining as development progresses. The team is self-funded and follows a lean, capital-efficient development model.

13.2 Funding Principles

Principle	Implementation
Transparency	All expenditures publicly reported
Targeted spending	Capital allocated to specific, measurable deliverables
Sustainability	Infrastructure investments for ongoing operation
Self-funded operations	No salaries drawn from external funding
Accountability	Full audit trail maintained

14. Roadmap

14.1 12-Month Development Roadmap

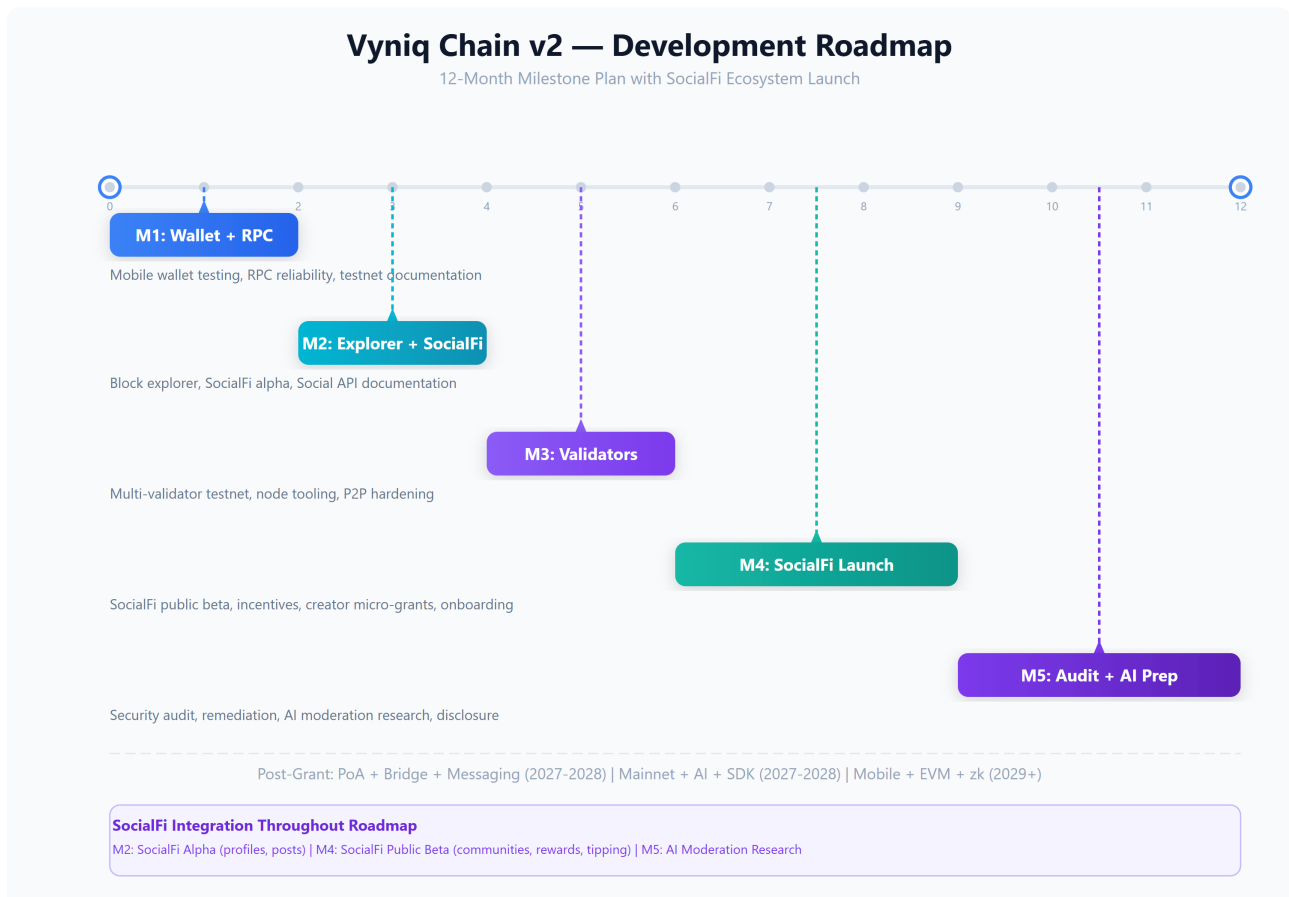


Figure 3: Vyniq Chain v2 development roadmap showing expanded milestones including SocialFi launch.

Milestone	Timeline	Key Deliverables
M1: Wallet + RPC Stabilization	Months 1–2	Mobile wallet testing (iOS/Android), RPC reliability, testnet documentation
M2: Explorer + SocialFi Alpha	Months 3–4	Public block explorer, SocialFi platform alpha, Social API docs
M3: Validator Onboarding	Months 5–6	Multi-validator testnet (3–5 nodes), validator documentation, node operator tooling
M4: SocialFi Launch + Testnet	Months 7–9	SocialFi public beta, incentive campaign, developer + creator programs
M5: Security Audit + AI Prep	Months 10–12	Professional audit, findings remediation, AI moderation research, public disclosure

14.2 Milestone Detail

M1: Wallet + RPC Stabilization (Months 1–2)

- Complete mobile wallet testing across iOS and Android
- RPC error handling, timeout management, rate limiting
- Publish testnet documentation (setup guide, API reference, wallet connection)
- Achieve <0.1% API error rate on testnet

M2: Explorer + SocialFi Alpha (Months 3–4)

- Deploy public block explorer to production URL
- Publish OpenAPI/Swagger spec
- Launch SocialFi alpha (profiles, basic posting, reputation system)
- Publish SocialFi API documentation

M3: Validator Onboarding (Months 5–6)

- Deploy multi-validator testnet with 3–5 independent validator nodes
- Publish step-by-step validator setup documentation
- Build node operator monitoring dashboard
- Harden P2P network for NAT traversal and peer discovery

M4: SocialFi Launch + Testnet Growth (Months 7–9)

- Launch SocialFi public beta (profiles, communities, tipping, rewards)
- Launch testnet incentive campaign with VYN rewards
- Award creator micro-grants (5 × \$1,000)
- Launch creator onboarding program
- Publish 4+ technical blog posts and SocialFi tutorials

M5: Security Audit + AI Prep (Months 10–12)

- Engage professional security auditor (core + SocialFi)

- Complete audit; remediate critical and high-severity findings
- AI moderation research and specification
- Publish audit results transparently on GitHub

14.3 Future Roadmap (2027–2028)

Feature	Target	Status
BNB Chain Bridge	2027–2028	Research
Proof of Authority Consensus	2027–2028	Research
SocialFi Messaging	2027–2028	Design
AI Moderation Integration	2027–2028	Research
Developer SDK	2027–2028	Design
Mainnet Launch	2027–2028	Planned
IPFS Content Storage	2027–2028	Research
Cross-chain Messaging	2027–2028	Research

14.4 Long-Term Vision (2029+)

Feature	Target	Status
Mobile Node Assisted Validation	2029+	Research
On-Chain Governance	2029+	Design
EVM Compatibility	2029+	Research
zk-Proof Integration	2029+	Research
Decentralized Identity	2029+	Research

14.5 Ecosystem Expansion Targets

By 2029–2031, if the project achieves product-market fit:

- **Public mainnet** with VYN token economics operational
- **10,000+ wallets** across mobile and desktop
- **50+ validators** in combined PoA and mobile validation network
- **1,000+ active SocialFi creators**
- **100+ SocialFi communities**
- **EVM compatibility** enabling Solidity developer adoption
- **Cross-chain bridge** to BNB Chain
- **Developer SDK** with SocialFi dApp templates

15. Team

15.1 Team Overview

Vyniq Labs is a small, focused team of two builders who developed this project without institutional funding. The team follows a remote-first, async workflow with modern development tooling to maximize productivity.

15.2 Founder

Md. Ibrahim Khalil — Product Architecture & Core Protocol

Area	Experience Level
Blockchain Technology	Advanced Intermediate
Cryptocurrency Infrastructure	Strong Understanding
Layer-2 Architecture	Practical Understanding
Web3 Application Development	Good Understanding
Product Architecture & Ecosystem Design	Strong Capability

Md. Ibrahim Khalil leads protocol design, Rust core development, blockchain architecture decisions, and ecosystem strategy. His background spans the full blockchain stack from low-level protocol implementation to application-layer design.

15.3 Co-Founder

Sagar — Product Support & Ecosystem Development

Area	Experience Level
Blockchain Fundamentals	Intermediate
Web3 Fundamentals	Practical Knowledge
Product Support	Capable
Ecosystem Development	Growing

Sagar focuses on product support, community operations, ecosystem partnerships, and ensuring the development pipeline aligns with community needs and market requirements.

15.4 How the Team Works

- **Remote-first, async collaboration** — Distributed team
- **Modern development workflow** — Automation, testing, documentation tooling, and productivity-enhancing development tools
- **Open-source by default** — All code is public on GitHub; contributions welcome
- **Lean and capital-efficient** — Self-funded; no venture capital dependency

15.5 Demonstrated Output

Area	Evidence
Rust blockchain core	297-line library with transactions, blocks, PoA validation, wallet, chain, validation

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Area	Evidence
P2P networking	128-line libp2p integration with gossipsub, Noise encryption, peer discovery
Validator binary	140-line Rust binary for block validation with P2P integration
API server	~1,700-line TypeScript server with 20+ endpoints, JSON-RPC, WebSocket
L2 sequencer	600+ line TypeScript engine with batch proofs, state management
Mobile wallet	Full React Native app with send/receive, QR, staking UI
Block explorer	React/Vite app with routing, search, API integration
Faucet	Rate-limited testnet faucet with cooldown logic
Test suite	Integration tests, e2e tests, RPC test payloads

16. Risk Factors

16.1 Technical Risks

Risk	Likelihood	Impact	Mitigation
Core protocol contains security vulnerabilities	Medium	High	Professional audit in M5; open-source review
P2P network does not scale beyond small validator set	Medium	Medium	Gradual expansion from 3–5 nodes
SocialFi platform adoption slower than expected	Medium	Medium	Creator-first onboarding; low barriers to entry
Mobile validation concept proves technically infeasible	Medium	Low	Design goal; protocol succeeds without it
Ed25519 tooling gaps in blockchain ecosystem	Low	Medium	Compatibility layer documented

16.2 Market Risks

Risk	Likelihood	Impact	Mitigation
Insufficient developer adoption	High	High	Quality docs; SocialFi SDK ease of use
Competing SocialFi platforms capture audience	Medium	Medium	Differentiated mobile-first + L2 integration
Crypto market downturn reduces interest	Medium	Medium	Lean operations; no token price dependency

Risk	Likelihood	Impact	Mitigation
BNB Chain ecosystem priorities shift	Low	Medium	Open-source; adaptable to other L1 anchors

16.3 Operational Risks

Risk	Likelihood	Impact	Mitigation
Small team creates bus factor risk	Medium	High	Open-source; documented architecture; modern development tooling
External funding insufficient for all milestones	Low	Medium	Conservative budget; focused scope
Development timeline slips	Medium	Medium	Phased milestones; each delivers independent value
Regulatory uncertainty around tokens	Medium	Medium	No token deployed during initial development

16.4 SocialFi-Specific Risks

Risk	Likelihood	Impact	Mitigation
Content moderation challenges	Medium	High	Community-driven moderation with AI assistance
Sybil attacks on reward system	Medium	Medium	Reputation-weighted distribution; staking requirements
User data privacy concerns	Medium	High	Encryption; minimal data collection; user control
Spam and low-quality content	High	Medium	Token-gated actions; reputation minimums

16.5 Risk Mitigation Approach

1. **No token is deployed** during the initial development phase
2. **Open-source development** ensures code can be reviewed
3. **Conservative milestones** allow timeline adjustments
4. **Regular public updates** keep community and stakeholders informed
5. **Security-first culture** — audit before mainnet, not after

17. Conclusion

Vyniq Chain v2 represents a significant evolution from a mobile-first L2 blockchain into a complete mobile-first L2 with an integrated SocialFi ecosystem. The protocol is early-stage, honest about its

limitations, and focused on building a foundation that can support genuine mobile participation in both decentralized finance and decentralized social networking.

Current State (June 2026)

- **Consensus:** Proof of Authority (PoA)
- **Network:** Single-validator testnet with operational RPC endpoint
- **Clients:** Functional mobile wallet (testing), block explorer (in development), SocialFi (in design)
- **Developer stack:** Rust (core), TypeScript (API + SocialFi), React Native (mobile)
- **Token:** VYN — conceptual only; not deployed on any network
- **Bridge to BNB Chain:** Not built — future roadmap item
- **SocialFi:** Platform architecture complete; implementation in progress

Immediate Priorities

1. Infrastructure stabilization and multi-validator deployment
2. SocialFi platform development and launch
3. Professional security audit of core protocol and SocialFi
4. Comprehensive developer and creator documentation
5. Testnet incentive programs and SocialFi creator micro-grants

Long-Term Aspiration

The north star remains a future where a smartphone anywhere in the world can participate meaningfully in blockchain consensus, social networking, and economic opportunity — not as a passive user, but as an active creator, validator, and community member with real economic agency. This is a multi-year research and engineering challenge, but it is worth building toward.

Vyniq Labs invites the BNB Chain ecosystem, investors, creators, and developers to join this journey.

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Appendices

Appendix A: Glossary

Term	Definition
Appchain	An application-specific blockchain optimized for a particular use case
BNB Chain	The base L1 blockchain to which Vyniq Chain plans to anchor
Bridge	A protocol enabling asset transfers between blockchains (planned; not built)
Ed25519	A high-speed elliptic curve digital signature algorithm (RFC 8032)
Gossipsub	A pub/sub message propagation protocol in the libp2p networking stack
IPFS	InterPlanetary File System — decentralized content storage (planned)
L1 / L2	Layer 1 (base/settlement chain) / Layer 2 (execution/scale chain)
libp2p	A modular peer-to-peer networking framework by Protocol Labs
Mempool	A pool of pending (unconfirmed) transactions awaiting inclusion in a block
Nonce	A transaction counter that prevents replay attacks
PoA	Proof of Authority — consensus where authorized validators produce blocks
SocialFi	Decentralized finance integrated with social networking
Sybil Resistance	Mechanisms to prevent fake identity creation
Token-Gated	Access controlled by token ownership
VYN	The native token of Vyniq Chain (conceptual; not deployed)

Appendix B: Current Network Parameters

Parameter	Value
RPC Endpoint	<code>https://rpc.vyniq.xyz/rpc</code>
Chain ID	4201 (testnet)

Parameter	Value
Block Time	~2 seconds
Validators	1 (single-node setup)
Faucet	10 VYN/claim, 24h cooldown
Max Supply	10,000,000,000 VYN (conceptual)
Signature Scheme	Ed25519 (end-to-end)
P2P Stack	libp2p (gossipsub, Noise)
Wallet Compatibility	MetaMask (via JSON-RPC)
SocialFi Platform	In development
License	MIT

Appendix C: Disclaimers

Informational Document Only: This whitepaper is provided for informational purposes only and does not constitute an offer to sell, a solicitation to buy, or a recommendation for any cryptocurrency, token, or digital asset. The VYN token is designed as a utility token intended to facilitate operations within the Vyniq Chain ecosystem. VYN tokens have not been registered as securities under any jurisdiction's securities laws, and no regulatory approval has been sought or obtained.

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Forward-Looking Statements: This whitepaper contains forward-looking statements about the development, features, and potential of Vyniq Chain. These statements are based on current expectations and are subject to risks, uncertainties, and assumptions. Actual results may differ materially. Vyniq Labs undertakes no obligation to update forward-looking statements.

No Guarantee of Completion: The development roadmap and milestones described herein are aspirational targets. There is no guarantee that any particular feature, milestone, or timeline will be achieved. Development may be delayed, modified, or abandoned at the sole discretion of the team.

No Token Sale: VYN tokens are not currently offered for sale and may never be offered. This document does not constitute an offer to sell or a solicitation to purchase tokens. No funds are being solicited, and no funds will be accepted.

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Open-Source Code: The Vyniq Chain codebase is published under the MIT license and is available at github.com/mib316127-bit/vyniq-chain. All code is provided "as is" without warranty of any kind, express or implied.

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Vyniq Labs — July 2026

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