wewake

WHITE PAPER

1. Introduction

WeWake Finance is a next-generation Layer 2 blockchain protocol focused on enabling true mass adoption of Web3 by delivering a radically simplified user experience: instant swaps, wallet-free onboarding, and gasless transactions. With an architecture built on zkEVM rollup, a robust Paymaster layer, and a smart wallet abstraction system, WeWake offers the foundation for consumer-facing decentralized finance.

Our mission is to eliminate technical friction and bring decentralized infrastructure into the hands of everyday users.

2. Problems and Our Solution

2.1. Industry Problems:

- **Gas fees are prohibitive:** Traditional Ethereum users must pay high gas fees for every action — especially painful for microtransactions.
- **UX complexity limits onboarding:** New users are overwhelmed by the need for wallet installations, seed phrase backups, and network switching.
- **Poor dApp retention:** Developers face abandonment of their dApps due to confusing Web3 UI and wallet errors.
- Fragmented L2 solutions: Existing L2s are often infrastructure-first, not user-first.

2.2. WeWake Solution:

- **Account Abstraction:** Users authenticate via OpenAuth (Telegram, Google, Magic Links, Email).
- **Smart wallets** are created on-chain automatically.
- **0 Gas UX:** With Paymaster sponsorship, users pay zero gas fees.
- **Easy-swap UI:** Simple one-click interface allows instant token exchange.
- **Modular SDK:** Developers can plug in Web3 capabilities without writing smart contracts.

3. Key Features

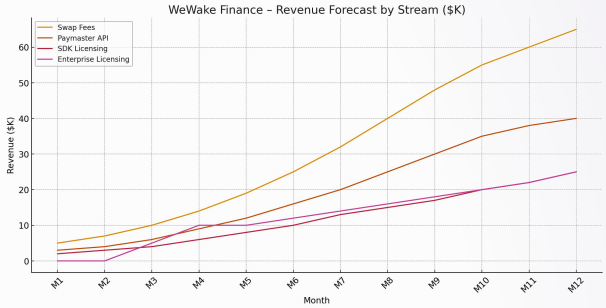
- Wallet-free onboarding
- Instant swaps with no gas fee
- Paymaster-as-a-Service
- Modular API/SDK for Web2-centered
- integrationsNFT & airdrop-ready
- EVM-compatible infrastructure with zk proofs

4. Business Model

WeWake generates revenue through:

Revenue Stream	Description	Model
Swap Fees	~0.01–0.1% spread per transaction on native swap interface	B2C
Paymaster API	dApps sponsor user gas through usage-based API	B2B
SDK Licensing	Developers license SDKs for fiat/crypto payments, mini apps, and integrations	B2B SaaS
Enterprise Solutions	White-label L2 environments for corporations and government pilots	B2B Enterprise

Forecast:



. *Each model contributes to long-term sustainability and compounding network value.*

5. Market Opportunity

4.1. Addressable Markets

- **Retail Crypto Users:** Over 300 million crypto wallets exist globally, yet many users do not interact regularly due to poor UX and gas fees. WeWake eliminates those barriers.
- **Web2 Integration Demand:** Major fintech, e-commerce, and gaming apps are exploring Web3 integrations. WeWake's SDK simplifies that transition.
- **DeFi Growth:** As DeFi expands toward mainstream finance, WeWake supports scalable, affordable, and mobile-first use cases.
- **NFT and Gaming:** These industries require low-friction, high-volume transaction capabilities — a perfect fit for gasless Layer 2 rollups like WeWake.

4.2.Differentiation

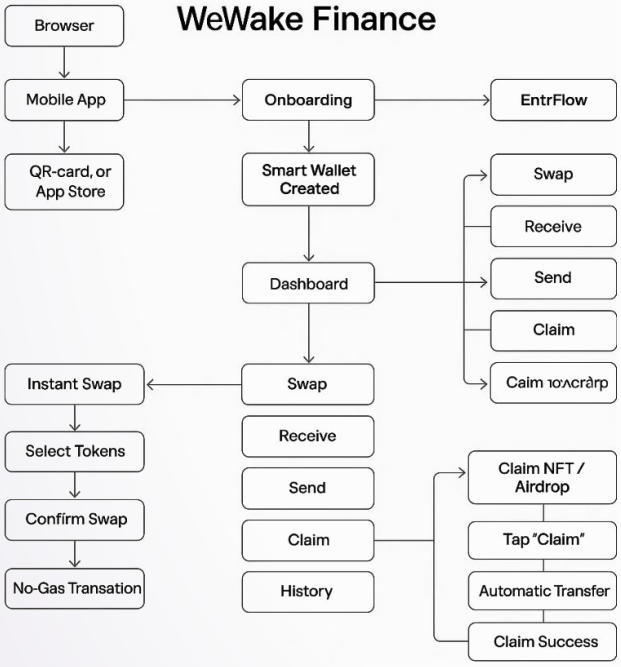
WeWake is not just faster — it's simpler. Our abstraction of wallets, gas, and onboarding makes the blockchain invisible.

6. Use Cases

- **Instant Swaps:** Users exchange tokens instantly without gas or wallets, e.g., swapping USDT for ETH inside an app.
- **NFT Drops:** One-click NFT mints are integrated into web and mobile flows, perfect for mass campaigns and games.
- **Web Payments:** Merchants integrate WeWake to accept crypto in checkout flows with cashback in $WAKE.
- **Airdrops & Rewards:** Users claim tokens or NFT gifts via a simple claim link without needing to install any wallet.
- **Smart Bot Payments:** Messaging bots integrated with WeWake SDK can facilitate DeFi and payments.

7. User Flow

- Login via Google, Telegram or Twitter
- System creates smart wallet instantly
- User swaps, mints NFT or sends tokens
- Gas covered automatically



8. Layer 2 Rollup Infrastructure

WeWake is built on a zkEVM-compatible rollup for security, throughput, and cost efficiency. Transactions are executed off-chain, aggregated, and posted to Ethereum via validity proofs (ZK-SNARKs).

- T_{batch} = total transactions in a batch
- G_{tx} = average gas per tx on L1
- G_{proof} = gas cost to verify proof

$$G_{WeWake} = \frac{G_{proof}}{T_{batch}} + G_{offchain}$$

Where $G_{offchain}$ is the amortized off-chain compute cost (low and subsidized).
With $T_{batch} \gg 1000$, we achieve over 100x lower gas cost compared to L1.

WeWake compresses thousands of user actions into a single Ethereum transaction, drastically reducing cost and increasing TPS.

9. ERC-4337 Smart Wallet Abstraction

WeWake replaces EOAs with fully programmable smart wallets for every user. These accounts support gas delegation, recovery, and automated operations.

WeWake integrates account abstraction via ERC-4337:

- **No externally owned accounts** (EOAs); all users are smart wallets.
- **Social login** (via Web3Auth/MPC) triggers wallet creation.
- **Wallets support batched transactions**, meta-transactions, session keys, programmable limits.

Each user transaction follows:

$$\text{UserOp} = (initCode, callData, verificationGas, preVerificationGas, maxFeePerGas)$$

This abstraction allows social login onboarding, and each wallet behaves like a modular smart contract.

10. Paymaster Integration

WeWake's Paymaster system lets third parties (dApps or the protocol) cover gas fees for users. This enables 0-gas UX without requiring users to hold $ETH.

Types of Paymasters:

- **Whitelist-based** (for campaigns, airdrops)
- **Stake-to-sponsor** (requires $WAKE staking)
- **dApp-funded** (developer pays per usage)

The logic:

$$\text{PaymasterBalance}_{dApp} \geq \text{maxFeePerGas} \times \text{gasLimit} \Rightarrow \text{TX proceeds}$$

Paymasters can enforce custom rules — like whitelist-only sponsorship, usage quotas, or staking-based eligibility.

11. SDK / API Capabilities

Feature	Description
Auth SDK	Authenticate users via Web2 methods with wallet auto-generation
Wallet SDK	Deploy and control smart wallets with full ERC-4337 abstraction
Transaction API	Send, swap, claim, and mint — all without gas
Developer Hooks	Set rules for Paymaster sponsorship or campaign tracking
Web App SDK	Embed WeWake functions into Web2, bots, mini apps

12. Modular Components

- **Rollup Framework:** zkStack or Optimism Stack
- **Data Layer:** Celestia / EigenDA integration
- **Wallet Infra:** ZeroDev, Web3Auth, Lit Protocol
- **DEX Aggregator:** Odos, 1inch
- **Frontend Kit:** Telegram Mini App + Vanilla JS / TS SDK & framework-based integrations (React, Vue)

13. Consensus

WeWake achieves finality via Ethereum using zero-knowledge proofs. Each transaction batch is sequenced, validated, and committed on-chain with zk-SNARKs.

Stage	Description
Sequencing	Off-chain sequencer bundles transactions
Proof Generation	zk prover compresses batch into a succinct SNARK
Submission	Batch and proof sent to Ethereum L1 for finality

This ensures data integrity, censorship resistance, and scalability.

14. Security

WeWake employs multi-layered security practices across infrastructure and contracts.

Component	Description
Smart Contracts	Audited ERC-4337, Paymaster, and token logic
ZK Circuits	zk-SNARK proof generation tested for correctness
Bug Bounties	Community-reported vulnerabilities rewarded
DAO Governance	Treasury and upgrades controlled by tokenholders

This ensures continuous improvement and resilience to attack vectors.

15. Token Utility — $WAKE

$WAKE is the native utility and governance token of the WeWake ecosystem. It incentivizes network participation and provides functional utility across the protocol.

Utility	Description
Staking	Stake $WAKE to sponsor user gas via Paymaster API
Governance	Vote on treasury spending, upgrades, partnerships
Cashback	Users earn $WAKE back for on-chain activities
API Access	SDK/API plans paid via $WAKE in B2B models
Partner Benefits	Partner apps offer bonuses to $WAKE holders

16. Tokenomics

Initial Supply = 1 575 137 505

	Percentage	Tokens	Initial Release in %	Initial Release in Tokens	Vesting	Cliff	Release
Presale	32%	504 044 002	25,00%	126 011 000	18	0	Monthly
Liquidity	8%	126 011 000	100,00%	126 011 000	0	0	No vesting
Ecosystem Incentives	14%	220 519 251	5,00%	11 025 963	36	3	Monthly
Treasury & Governance	12%	189 016 501	0,00%	0		6	DAO-controlled
User Rewards	10%	157 513 750	10,00%	15 751 375	18	0	Monthly
Staking Emissions	7%	110 259 625	0,00%	0	36	2	Monthly
Strategic Reserve	5%	78 756 875	0,00%	0	0	0	As needed
Team	5%	78 756 875	10,00%	7 875 688	24	0	Monthly
Marketing	7%	110 259 625	20,00%	22 051 925	12	0	Monthly
	100%	**1 575 137 505**	**19,60%**	**308 726 951**			

17. Roadmap

↓ Q2 2025 — Ideation & Core Team Formation

Focus: Architecture, vision, and assembling the founding team

Milestones:

- Finalize concept of “Walletless, Gasless Layer 2 for retail adoption”
- Conduct market research and define key user verticals (Telegram, Web2, eCommerce)
- Select technical stack: ZK-Rollup, ERC-4337, Paymaster Layer
- Build initial architecture prototype (Smart Wallet + Paymaster system)
- Assemble core team: CTO, smart contract engineers, product lead
- Create brand identity, naming, and positioning for WeWake
- Draft v0.1 whitepaper and investor pitch deck

↓ Q3 2025 — Product Packaging & Presale Launch (ICO)

Focus: Token launch, marketing, and fundraising

Milestones:

- Finalize $WAKE tokenomics: supply, 80-stage presale model, vesting

- Launch public-facing website and investor dashboard
- Initiate 80-stage ICO (from $0.001 to $0.05 per token)
- Activate community marketing: Twitter, Telegram, AMAs, PR
- Deploy branded pitch materials and GitBook documentation
- Start partnership discussions for integrations and launchpads
- Launch strategic seed/VC round parallel to public ICO

↓ Q4 2025 — Product Development Phase I

Focus: Building core components and developer stack

Milestones:

- Begin WeWake Rollup development (zkEVM / zkStack / OP Stack architecture)
- Integrate ERC-4337 + EntryPoint for smart wallet architecture
- Develop Paymaster logic (whitelist, stake-to-sponsor, dApp-funded)
- MVP SDK: Google/Telegram login + abstracted wallet
- Integrate Uniswap/Odos for Swap Aggregation
- Build Web3Auth + ZeroDev for MPC-based wallet onboarding
- Prepare automated CI/CD testing pipeline for Testnet

↓ Q1 2026 — Launch of Public Testnet

Focus: Community testing, dev access, and early feedback

Milestones:

- Deploy public WeWake Testnet with SDK & Explorer
- Enable smart wallet creation via social login (ERC-4337)
- Launch Paymaster API sandbox with simulation tools
- Rollout Instant Swap demo (gasless & walletless)
- Launch Developer Grant Program for early dApp builders
- Begin formal bug bounty campaign
- Iterate UI/UX based on feedback; test all edge cases

↓ Q2 2026 — Mainnet Development & Security

Focus: Scaling, audit, and DAO readiness

Milestones:

- Architect Mainnet rollup with enhanced security and data availability
- Integrate Celestia or EigenDA (modular DA support)
- Launch governance framework for DAO Treasury
- Enable NFT minting + Telegram Mini App SDK
- Expand bridge integrations (Ethereum ⇔ WeWake ⇔ L2s)
- Conduct full protocol audits (ZK proof, wallets, Paymaster)
- Finalize listing agreements, partner onboarding

↓ Q3 2026 — Mainnet Launch & Ecosystem Growth

Focus: Full release, onboarding users and developers

Milestones:

- Launch WeWake Mainnet publicly
- Activate gasless Paymaster API for all supported dApps
- List $WAKE on CEX and DEX platforms
- Launch Telegram Mini App: Instant Wallet + Swap
- Deploy Ecosystem Grants for Telegram dApps, GameFi, and retail DeFi
- Enable first DAO proposals and treasury management
- Onboard key e-commerce and Web2 platform partners

18. Conclusion

WeWake is not just another rollup — it's a UX protocol for Web3. By focusing on frictionless onboarding, social login, and invisible crypto logic, WeWake transforms how users and developers interact with blockchains.

Our infrastructure enables everyday users to swap, send, and mint crypto assets in seconds — no gas, no wallets, no jargon.
WeWake is where Web2 simplicity meets Web3 power.