Rivyu Whitepaper 1.0

The Community-Driven Web3 Ecosystem on TON

1. Executive Summary

Rivyu is a next-generation decentralized application built on The Open Network (TON), designed to empower communities through a fair, transparent, and rewarding ecosystem. By combining gamified mining, sustainable staking, and a comprehensive rewards system, Rivyu creates a vibrant economy where user engagement is directly translatable to value.

Our mission is to democratize access to digital assets by ensuring fair distribution mechanisms that prioritize actual users over speculators.

2. Tokenomics

The RIVYU token is the fuel of the ecosystem, designed with a total supply of **1 Billion tokens** to ensure long-term sustainability and growth.

2.1 Token Distribution

Allocation	Tokens	%
Mining Pool	300,000,000	30%
Staking Rewards	200,000,000	20%
Liquidity Pool	120,000,000	12%
Founder Allocation	120,000,000	12%
Marketing	100,000,000	10%
Airdrops	80,000,000	8%
Treasury	50,000,000	5%
Public Sale	30,000,000	3%
TOTAL	**1,000,000,000**	**100%**

2.2 Mining Pool Breakdown (300M)

The 300M mining pool is further distributed to incentivize various user behaviors:

- **Active Mining (Halving):** 180M (60%)
- **Referral Bonuses:** 50M (16.7%)
- **Daily Login Bonus:** 20M (6.7%)
- **Streak Bonuses:** 15M (5%)

- **Social Tasks:** 15M (5%)
- **Reserve/Adjustments:** 19.5M (6.4%)
- **Welcome Bonus:** 0.5M (0.2%)

---

3. Mining System

Rivyu utilizes a unique "Proof-of-Engagement" mining model where users earn tokens based on their activity and level. The system is designed to distribute the 180M active mining pool over a target period of 6 months.

3.1 Mining Formula

The mining rate is dynamically calculated to ensure sustainable depletion:

```
mining_rate = (X / 2^k) × (1 + bonus_multiplier)
```

- **X (Base Multiplier):** 1,200 (optimized for 20K-30K users)
- **k (Milestone Index):** Based on total user count (0-5), acting as a halving mechanism.
- **Bonus Multiplier:** Determined by user level (0% at Level 1 to 100% at Level 10).

3.2 Milestones and Halving

As the community grows, the base mining rate adjusts (halves) to protect token value:

User Count	k	Base Rate (X=1200)
0 - 999	0	1,200/day
1K - 9.9K	1	600/day
10K - 99K	2	300/day
100K - 999K	3	150/day
1M+	4+	75/day (decreasing)

3.3 Dynamic Adjustment

To ensure the distribution adheres to the 6-month target, a dynamic adjustment system monitors the pool depletion rate. If actual depletion deviates by >15% from the target, the **X value** is automatically adjusted. This protects the ecosystem from both under-distribution and hyper-inflation.

---

4. User Profile & Level System

Every user in the Rivyu ecosystem has a profile that tracks their progression. Leveling up increases mining efficiency and energy capacity.

4.1 Level Progression

Users progress from Level 1 to Level 10 by earning Experience Points (XP).

Level	Mining Bonus	Energy Capacity
1	0%	5,000
2	20%	6,347
3	30%	8,050
...	...	...
10	100%	100,000

4.2 Energy System

- **Mining Cost:** Mining consumes energy.
- **Duration:** ~83 minutes to deplete a full bar (consistent across levels).
- **Recharge:** ~2.8 hours to full recharge.
- **Watch & Earn:** Users can watch ads or tutorials to instantly recharge energy (10-25 energy per view).

---

5. Rewards System

Beyond standard mining, users earn RIVYU tokens through active participation and community building.

5.1 Reward Types

1. **Welcome Bonus:** 5,000 tokens for the first 100 users.
2. **Daily Login:** 10 tokens every 24 hours.
3. **Streak Bonuses:** Progressive rewards for consecutive logins (e.g., +1,000 tokens at Day 30).
4. **Social Tasks:** One-time rewards (50 tokens each) for following social channels.
5. **Referral System:** Earn **10%** of all tokens earned by referred users (mining, staking, and rewards).

---

6. Staking System

To encourage long-term holding and reduce circulating supply, Rivyu offers a robust staking program with **200M tokens** allocated for rewards.

6.1 Staking Pools

Pool Name	Lock Period	APY	Best For
Flexible	None	10%	Liquidity needers
30-Day	30 Days	20%	Short-term holders
90-Day	90 Days	30%	Medium-term investors
365-Day	365 Days	40%	Long-term believers

6.2 Key Features

- **Emergency Exit:** Users can withdraw early from locked pools but face a **10% penalty** on *earned rewards only* (principal is safe).
- **Distribution:** Rewards are distributed daily (Flexible) or weekly (Locked pools).

---

7. Roadmap

We are committed to a transparent and timely execution of our vision.

Phase 1: Foundation

- **Website Launch:** December 25, 2025
- Community building and initial marketing.

Phase 2: Platform Launch

- **DApp Launch:** 1st Week of March 2026
- **Features Live:** Mining Dashboard, Staking Pools, Rewards System, Social Tasks.

Phase 3: Token Generation Event (TGE)

- **TGE Date:** September 19, 2026
- **Liquidity Locked:** September 19, 2026 (120M RIVYU locked forever).
- **First Airdrop:** September 30, 2026 (Distribution to early adopters).

Phase 4: Ecosystem Expansion

- **Utility Launch:** Q1 2027
- Introduction of further utility for RIVYU tokens within the ecosystem.

---

8. Technology Stack

- **Blockchain:** The Open Network (TON) - chosen for its infinite sharding and high throughput.
- **Smart Contracts:** FunC (MiningMaster, RewardsContract, StakingContract).
- **Frontend:** React, Vite, TypeScript.
- **Backend:** Supabase (Database & Auth), Python (Analytics).

Rivyu Project - 2025