

VECTRON Protocol Whitepaper

BNB Chain | BEP-20 | Fixed supply, on-chain vesting and tiered staking
Version 5 | October 2026

Status. The contract is deployed and source-verified on BNB Smart Chain mainnet at 0x21b2Fd27294912555b57028CC8cf69C60851D1e4. The launch sequence (allocations, liquidity seeding and lock, system start) has not yet been executed. No independent third-party audit has been completed. Verify every claim in this document against the verified contract on BscScan.

Executive Summary

VECTRON (VCT) is a fixed-supply BEP-20 token on BNB Chain built around two ideas: vesting that is enforced by the contract rather than by off-chain promises, and staking rewards that come from real trading activity rather than from new token issuance. All 1,000,000,000 tokens are minted once at deployment and no further minting is possible. Staking rewards are not minted and are not pre-funded: they are paid from a 1% tax on every buy and sell through the PancakeSwap pair, so reward flow scales with trading volume and can be low or zero when volume is low.

Problem Statement

Many token projects share the same structural weaknesses. Utility is often unclear beyond speculation. Early unlocks create heavy sell pressure. Vesting and liquidity commitments are made off-chain and cannot be verified. Founders and holders are frequently not economically aligned. VECTRON addresses these by putting the vesting schedule, reward accounting and safeguards in the contract itself, where anyone can read them.

Product Overview

On-chain vesting. Investor, team and treasury allocations vest under one schedule coded into the contract. There is no separate manual path for insiders.

Tiered staking. Holders choose a 15, 45 or 90-day lock. Longer locks earn more reward points per token: 1x, 1.5x and 2x respectively.

Volume-funded rewards. A 1% tax applies to every buy and sell through the registered pair. Half goes to stakers in proportion to their points, using reward-per-token accounting, and half goes to the auto-liquidity engine. Nothing is minted and no reward pool is pre-funded.

Built-in safeguards. Two-step ownership transfer, timelocked asset rescue, a one-time on-chain liquidity lock, and manipulation-resistant auto-liquidity.

Tokenomics

Total supply is fixed at 1,000,000,000 VCT, minted in full at deployment.

Category	Tokens	Share	TGE unlock	Schedule
Liquidity (owner wallet)	150,000,000	15%	100%	No lock; used to seed market depth
Vesting pool (held by contract)	850,000,000	85%	10%	90% linear over 12 weeks

The 850M vesting pool covers Seed, Private and Public investors (600M combined), the Team (150M) and the Treasury (100M). Team and Treasury follow exactly the same 10% TGE and 12-week linear schedule as

investors, enforced by the same contract mechanism. Investor allocations are assigned per buyer on-chain before the system starts. When `startSystem()` is called, the vesting pool size is reconciled and any unallocated tokens are swept to the treasury wallet; the allocation setters are locked from that point on.

Vesting Schedule

At launch (TGE), 10% of each allocation is claimable immediately. The remaining 90% is released linearly, second by second, over 12 weeks. The schedule is set by the contract's vesting duration variable and can be verified on-chain.

Staking and Rewards

Tier	Lock	Points multiplier
Short	15 days	1x
Medium	45 days	1.5x
Long	90 days	2x

Rewards accrue through a reward-per-token model. Each taxed trade adds the stakers' half of the tax to the reward pot, distributed by each holder's share of total points. For the pair to be taxed on sells, it must be registered with `setExchangePair`; the launch plan registers it as the final step.

Emergency exit

A staker can withdraw principal before the lock ends using `emergencyExit`. It is unavailable during the first hour after a stake is created, a rule added to stop bots from jumping in and out for rewards. The standard exit fee applies (currently 1%, capped at 3%), and the pending rewards of that stake slot are forfeited pro rata, in proportion to the slot's share of the staker's points. Both the fee and the forfeited rewards go to the treasury wallet. The staker's other stakes and their rewards are unaffected. While the contract is paused, both the one-hour rule and the fee are waived. `emergencyExit` is a liquidity option for holders with a genuine need, not a free exit.

Liquidity

Auto-liquidity. The liquidity half of the tax accumulates in the contract and is added to the PancakeSwap pool once a minimum threshold is reached. The engine prices against a time-weighted average price (TWAP) with a divergence cap, so a momentary price spike cannot be used to force a bad liquidity add. The trigger runs at the start of a transfer so that small trades are not blocked.

Liquidity lock. The contract includes a one-time on-chain LP lock: `lockLiquidity()` locks LP tokens for 150 days and `withdrawLP()` only works after expiry. The lock is tied to the router-factory pair. The launch plan is to seed initial liquidity and lock it before the system starts. Lock status is verifiable on-chain and should be checked there.

Safeguards and Ownership

Two-step ownership. Ownership moves only through `transferOwnership()` followed by `acceptOwnership()` from the new address, which prevents transfers to a mistyped address.

Hardware-wallet owner. The contract was deployed from, and is owned by, a Trezor hardware wallet.

Timelocked rescue. Recovery of native assets and of ERC-20 tokens sent to the contract by mistake each require a 48-hour timelock before execution.

Fixed supply. There is no mint function after deployment.

Contract Details

Network	BNB Smart Chain mainnet
Contract	0x21b2Fd27294912555b57028CC8cf69C60851D1e4
Deployed	2 October 2026, block 125273255
Deploy transaction	0x5a042e5827150393e1d09b21dcd59919df181272ac23b46f8deae4b0527972a4
Owner / liquidity wallet	0xbEc4B6356267fE4791b5C0b5b1325B5B07aE0ad9
Team wallet	0xB09Fe4e0a7eAa5CCa8D61689E4De8C9305F550ca
Treasury wallet	0x3D919111dC1B6468d5515eE89f5c088aD833C8C8
Router	PancakeSwap V2: 0x10ED43C718714eb63d5aA57B78B54704E256024E
Compiler	Solidity 0.8.19, optimizer on (200 runs), default EVM version
Verification	Source verified (exact match) on BscScan and Sourcify
Source SHA-256	db9eeaa02406f3bfff8c14286790d8180a4cbfafed985a9d667dfe7ead25c7d94
Source repository	github.com/wami2212-lab/VECTRON

Superseded deployments. Two earlier mainnet deployments exist and are inert: v1 at 0x04F3e675068a93941d0b6cB13428c4a9C83dfd14 and v2 at 0x60d78404f645d1e9140b605ba8c7641f67e841fc. Neither was ever started or seeded. Only the contract listed above is VECTRON.

Testing and Security Status

The contract source at the deployed commit has been through Foundry unit, fuzz, invariant and BSC-fork testing: 46 tests across 6 suites, 10 invariants, roughly one million randomized calls, with no failures and no reverts. It has also been scanned with Slither, Solhint, SolidityScan, Mythril and Aderyn, with no outstanding findings. Earlier fork testing found two defects (an auto-liquidity ordering bug that reverted small sells, and a stale-TWAP bug); both are fixed in the deployed version.

Not audited. Automated tools and the project's own tests are not a substitute for an independent audit. No third-party audit has been completed. One residual edge case, reward capture around the timing of an emergency exit, was reviewed and accepted as low risk. An independent audit is a priority use of funds raised.

Token Utility

Staking rewards (live). Stakers receive a share of the tax on every trade, in proportion to lock tier and amount staked.

Service access (planned). A future Investor Resource Terminal with on-chain analytics is intended to be gated by a minimum stake. It is not built.

Governance (planned). A governance model is intended for the future. No voting or proposal mechanism exists in the contract today.

Roadmap

Phase	Scope	Status
1. Foundation	Contract development; testnet verification on Sepolia and BSC testnet; fuzz, invariant and fork testing; mainnet deployment and verification of v3	Complete
2. Launch	Investor allocations (including Team and Treasury), initial liquidity seeding and 150-day lock, startSystem(), registering the trading pair	Pending
3. Audit and growth	Independent smart-contract audit once funded; marketing and ecosystem growth	Planned
4. Utility	Investor Resource Terminal; governance model	Planned

Risks and Disclaimer

Smart contracts can contain undiscovered vulnerabilities regardless of testing. The contract has not been independently audited. Staking rewards depend entirely on trading volume and may be small or zero. Token prices can fall to zero and liquidity may be thin. Regulatory treatment of digital assets varies by jurisdiction and may change. Participants should only commit what they can afford to lose.

This document is a working draft for discussion purposes only. It is not an offer to sell securities and does not constitute financial, legal or investment advice. Figures and mechanics should be confirmed against the live verified contract before reliance.