

# VibeSwap Phase 2: Building Out Roadmap

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**Status:** Planning Started: February 2026 **Phase 1:** Core protocol (CommitRevealAuction, VibeAMM, CrossChainRouter, governance, incentives, compliance, identity, quantum) **Phase 2:** Financial primitives, mechanism extensions, protocol framework, DeFi/DeFAI features, aesthetic overhaul

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### Protocol / Framework

#	Addition	Description	Priority
1	<b>Intent-Based Order Routing</b>	Users express “swap X for best Y” — protocol routes across AMM, auction, or cross-chain paths automatically	
2	<b>Modular Pool Factory</b>	Deploy new pool types (stable, concentrated, weighted) from a single factory with pluggable curves	
3	<b>Hook System (Uniswap V4 style)</b>	Pre/post swap hooks on pools — third parties attach logic (fees, rewards, compliance) without modifying core	
4	<b>Keeper Network / Relayer Layer</b>	Decentralize the settlement trigger — anyone can call <code>settle()</code> and earn tips, removes single-operator dependency	
5	<b>Gasless Meta-Transactions (EIP-2771)</b>	Users sign, relayers pay gas — critical for the “abstract crypto away” UX goal	
6	<b>Account Abstraction (ERC-4337)</b>	Smart contract wallets with session keys, batched txns, social recovery — pairs with WebAuthn device wallet	

#	Addition	Description	Priority
7	<b>Plugin Registry</b>	On-chain registry of approved extensions (new curve types, oracle adapters, compliance modules) — governed by DAO	
8	<b>Timelocked Governance Execution</b>	All governance proposals execute after a mandatory delay — gives users exit window	
9	<b>Protocol-Owned Liquidity (POL)</b>	Treasury deploys its own LP positions, earning fees perpetually instead of renting liquidity via emissions	
10	<b>Versioned Proxy Architecture</b>	Multiple implementation versions live simultaneously — users opt-in to upgrades rather than forced migration	

## Mechanism Design

#	Addition	Description	Priority
1	<b>Dutch Auction Liquidations</b>	Failing positions auctioned via descending price — more efficient than fixed-discount liquidations	
2	<b>Quadratic Voting for Governance</b>	Cost of votes = $n^2$ — prevents whale dominance while maintaining stake-weighted skin-in-the-game	
3	<b>Retroactive Public Goods Funding</b>	Treasury funds projects AFTER they demonstrate value — solves “fund and pray” problem	
4	<b>Conviction Voting</b>	Preference accumulates over time — rewards long-term holders, discourages flash-loan governance attacks	
5	<b>Bonding Curves for Token Launches</b>	New tokens bootstrap liquidity via mathematical price curves — no initial LP required	
6	<b>Commit-Reveal Governance</b>	Apply existing commit-reveal pattern to votes — eliminates bandwagoning and vote-buying during live polls	
7	<b>Harberger Tax on Premium Features</b>	Premium pool slots/featured listings: self-assess value, pay	

#	Addition	Description	Priority
8	<b>Prediction Market Integration</b>	continuous tax — anyone can buy at your price Users bet on price direction within auction windows — reveals information, improves price discovery	
9	<b>Cooperative MEV Redistribution</b>	When MEV is captured (priority bids), redistribute pro-rata to LPs and traders — “Cooperative Capitalism” in action	
10	<b>Adaptive Batch Timing</b>	Dynamically adjust 8s/2s commit/reveal window based on congestion and volatility	

## Aesthetic / UX

#	Addition	Description	Priority
1	<b>Achievement System</b>	“First Trade”, “100 Swaps”, “LP Veteran” — OSRS-style skill milestones tied to SoulboundIdentity	
2	<b>Live Order Book Visualization</b>	Animated depth chart showing bids/offers filling in real-time during commit phase	
3	<b>Player Inventory Panel</b>	Token holdings displayed as items in a grid inventory — drag to trade, hover for stats	
4	<b>Pixel Art Token Icons</b>	32x32 pixel sprites for every token — OSRS item aesthetic	
5	<b>Grand Exchange “Offers” UI</b>	Active orders displayed as GE-style offer slots with progress bars for partial fills	
6	<b>World Chat / Trade Chat</b>	Forum.sol frontend — channels for general chat, trade offers, LFG	
7	<b>Skill Tree for Protocol Features</b>	Unlock advanced features (limit orders, cross-chain, leverage) as you gain XP — progressive disclosure	
8	<b>Sound Effects</b>	Coin clinks on trades, level-up jingles on achievements, ambient tavern music — toggleable	

#	Addition	Description	Priority
9	<b>Seasonal Events</b>	Time-limited cosmetics, bonus rewards, special pools — drives recurring engagement	
10	<b>Minimap / Protocol Dashboard</b>	Small always-visible widget showing TVL, your positions, active auctions — like the OSRS minimap corner	

## DeFi / DeFAI Features

#	Addition	Description	Priority
1	<b>Concentrated Liquidity</b>	LP in specific price ranges — higher capital efficiency, pairs with volatility oracle for auto-rebalancing	
2	<b>AI-Powered Auto-Rebalance</b>	DeFAI agent monitors positions and rebalances LP ranges based on Kalman filter oracle signals	
3	<b>Leveraged LP Positions</b>	Borrow against LP tokens to increase position — with circuit breaker protection	
4	<b>Yield Aggregator Vault</b>	Auto-compound LP fees + loyalty rewards + Shapley distributions into optimal strategies	
5	<b>Cross-Chain Yield Routing</b>	DeFAI agent scans yield across chains via LayerZero, auto-deploys capital where APY is highest	
6	<b>Limit Orders via Auction</b>	Users set price targets — orders sit until a batch clears at their price or better	
7	<b>DCA (Dollar Cost Average) Bot</b>	Scheduled recurring swaps — executes within auction batches for MEV protection	
8	<b>AI Risk Scoring</b>	DeFAI module scores pool risk (IL exposure, smart contract risk, liquidity depth) before users enter	
9	<b>Flash Loan Module</b>	Single-block uncollateralized loans — with existing EOA-only restriction as opt-in per pool	
10	<b>Perpetual Futures</b>	Synthetic perps settled through batch auctions — MEV-	

#	Addition	Description	Priority
		protected derivatives	

## Financial Primitives / Legos (BUILD FIRST)

#	Primitive	What It Enables	Status
1	<b>Wrapped Batch Auction Receipts (wBAR)</b>	ERC-20 tokens representing pending auction positions — tradeable before settlement, creates a pre-market	Complete
2	<b>LP Position NFTs (ERC-721)</b>	Each LP position is a unique NFT with metadata (range, fees earned, age) — composable, tradeable, collateral-eligible	Planned
3	<b>Streaming Payments (ERC-7575)</b>	Continuous token flows — salary payments, subscription fees, vesting, all in real-time	Planned
4	<b>Options Primitives</b>	On-chain calls/puts priced by volatility oracle — built on top of AMM liquidity	Planned
5	<b>Yield-Bearing Stablecoins</b>	Deposit USDC → get vsUSDC that auto-earns from protocol fees — composable yield layer	Planned
6	<b>Bond Market</b>	Fixed-term, fixed-rate deposits — treasury issues bonds to smooth liquidity, users get predictable yield	Planned
7	<b>Credit Delegation</b>	Depositors delegate borrowing power to trusted addresses — undercollateralized lending with reputation oracle	Planned
8	<b>Synthetic Assets</b>	Mint synthetic exposure to any asset using oracle infrastructure — trade TSLA, gold, BTC on any chain	Planned
9	<b>Insurance Derivatives</b>	Tokenized coverage against IL, smart contract exploits, depeg events — extends VolatilityInsurancePool	Planned
10	<b>Revenue Share Tokens</b>	ERC-20 tokens that auto-receive % of protocol revenue — stakeable, tradeable, collateral-eligible	Planned

# Architecture Notes

**The throughline:** Phase 1 established the anti-MEV auction, cooperative incentives, cross-chain messaging, and identity primitives. Phase 2 layers on top to create a **full financial operating system** — not just a DEX, but a platform where every financial primitive is composable, MEV-protected, and game-theoretically sound.

**Build order:** Financial Primitives first (they become the legos everything else composes on top of).

## Existing Contracts (Phase 1 - Complete)

Core: CommitRevealAuction, VibeSwapCore, CircuitBreaker, PoolComplianceConfig  
AMM: VibeAMM, VibeLP  
Governance: DAOTreasury, TreasuryStabilizer, AutomatedRegulator, DecentralizedTribunal, DisputeResolver  
Incentives: ShapleyDistributor, ILProtectionVault, LoyaltyRewardsManager, IncentiveController, PriorityRegistry, SlippageGuaranteeFund, VolatilityInsurancePool  
Messaging: CrossChainRouter  
Libraries: DeterministicShuffle, BatchMath, TWAPOracle, VWAPOracle, SecurityLib, TruePriceLib, LiquidityProtection, FibonacciScaling, SHA256Verifier, ProofOfWorkLib, PairwiseFairness  
Oracles: VolatilityOracle, TruePriceOracle, StablecoinFlowRegistry, ReputationOracle  
Identity: SoulboundIdentity, WalletRecovery, AGIResistantRecovery, Forum  
Compliance: ComplianceRegistry, ClawbackRegistry, ClawbackVault, FederatedConsensus  
Quantum: QuantumGuard, QuantumVault, LamportLib  
Other: CreatorTipJar