

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

Protocol / Framework

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

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

Mechanism Design

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

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

Aesthetic / UX

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

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

DeFi / DeFAI Features

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

#	Addition	Description	Priority
		protected derivatives	

Financial Primitives / Legos (BUILD FIRST)

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