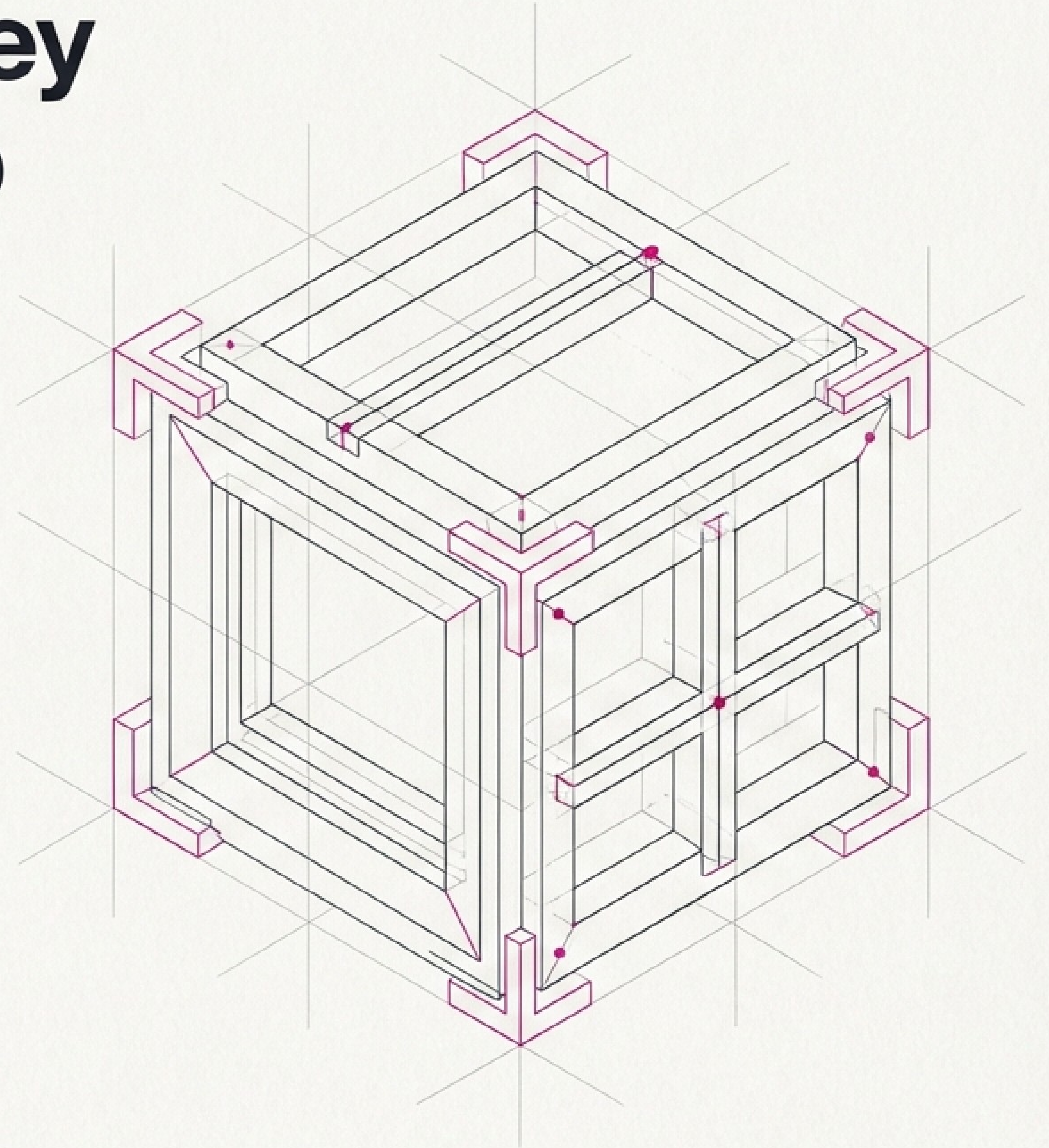


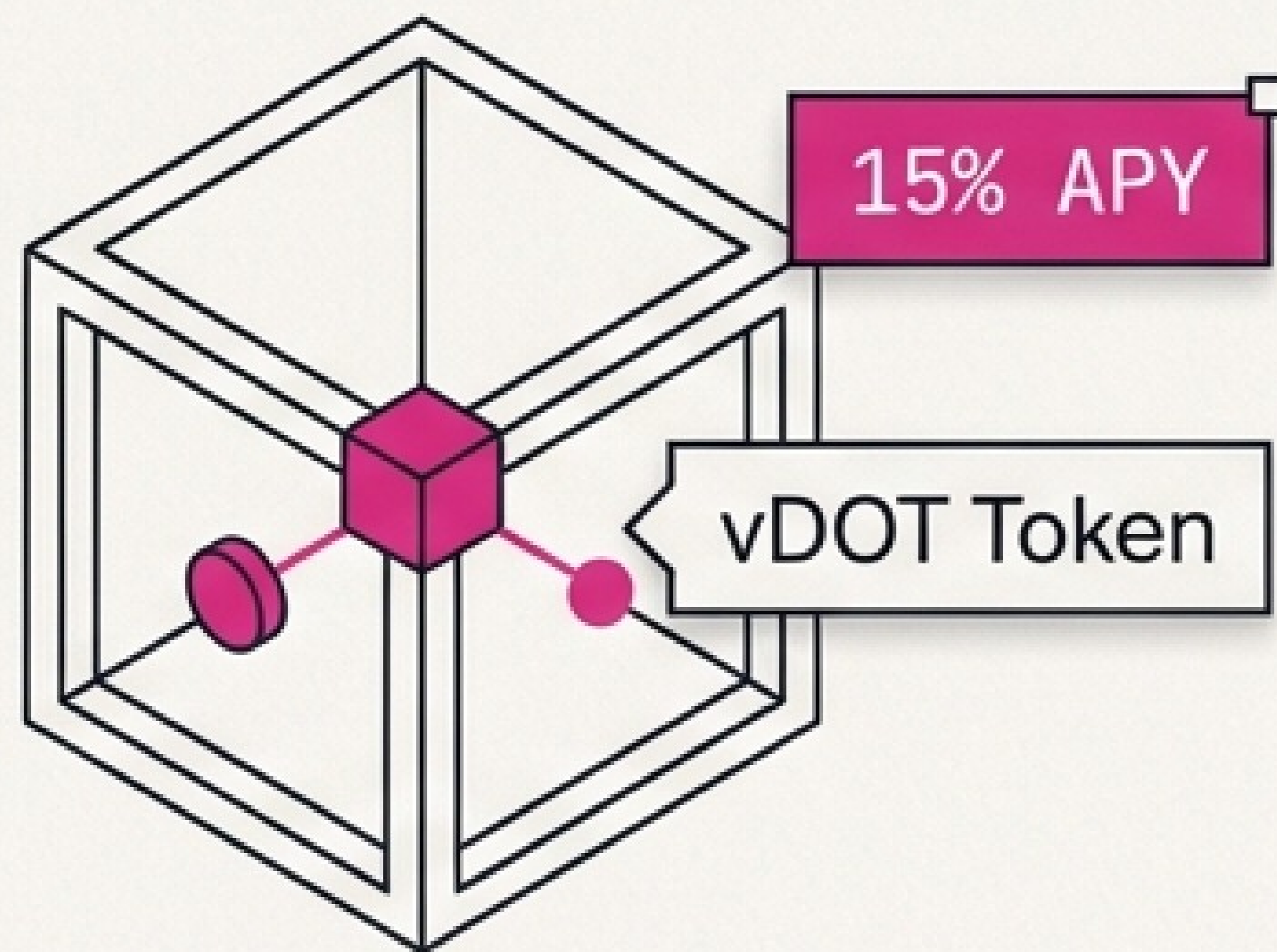
DotLend: The First Money Market on Polkadot Hub

Deposit vDOT or native DOT. Borrow stablecoins.
Cryptographic solvency proved every 30 minutes.
nexucore.xyz | github.com/orthonode/dotlend



Arhant Barmate — Solo Founder & Engineer
Orthonode Infrastructure Labs | March 2026

The Liquidity vs. Yield Dilemma



Sell vDOT → Lose Yield & Eat Slippage

Wait → Miss Window Entirely

Ethereum users can deposit stETH and borrow USDC in 30 seconds via Aave (\$20B TVL).

Polkadot users had zero options. Hydration is a DEX. Acala depegged. Parallel Finance died.

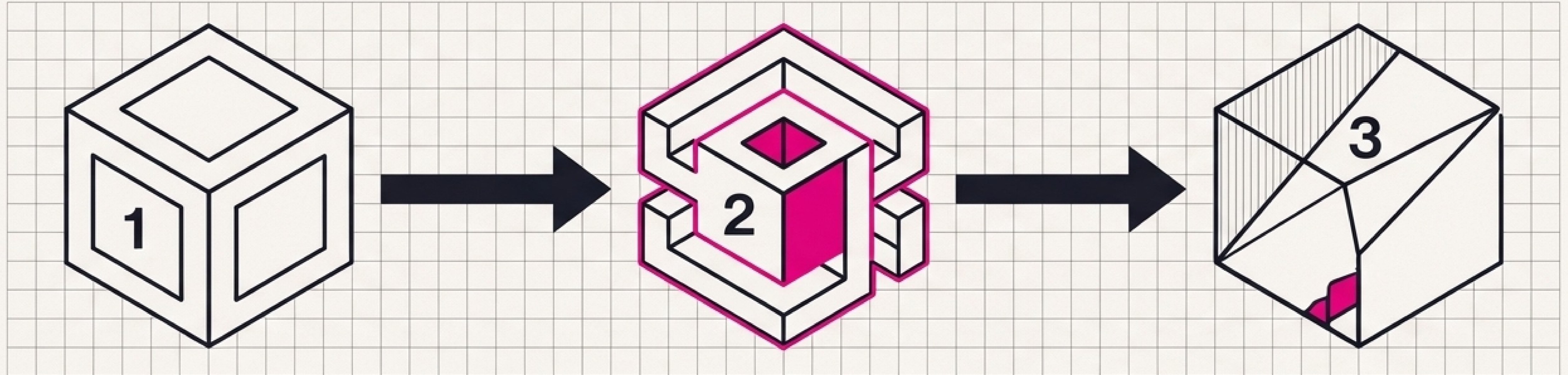
Result: Hundreds of millions in yield-bearing assets trapped.

The Ecosystem Vacuum

Polkadot Total TVL	\$800M+
Hydration USDH	\$330M (Growing stablecoin)
Bifrost vDOT	\$200M+ (Liquid-staked DOT earning yield)
Snowbridge Assets	\$75M+ (wETH, wBTC, USDC bridged to Hub)
<hr/>	
Native Hub Lending Markets	\$0

Takeaway: The capital is there.
The utility is missing.

Three Steps. Zero Friction.



vDOT Deposit

Keep earning Bifrost staking staking yield (~15% APY) while collateral sits in the vault.

USDH Borrow

Instant stablecoin liquidity up to 70% LTV. No selling, no bridges, no waiting.

Repay OR Liquidate

Pay back with a 0.5% annual stability fee. If health drops below 1.0, liquidators earn a 5% bonus to keep the system solvent.

Live Traction on Polkadot Hub TestNet

LIVE: nexucore.xyz

13

Smart Contracts Deployed

(across 2 independent markets: vDOT and WPAS)

102

Hardhat Tests

0 Failures

Full User Flow Confirmed

Deposit → Borrow → Repay → Withdraw → Liquidate

TreasuryRouter Live

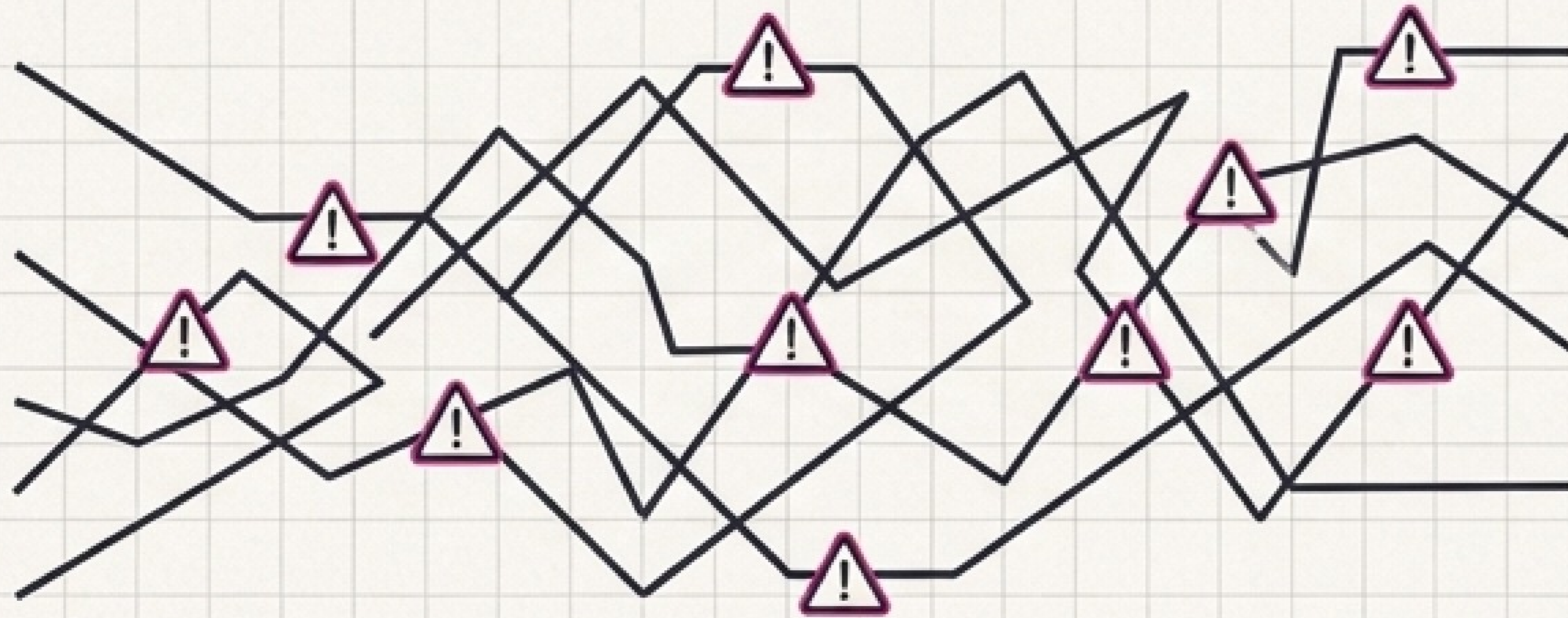
Every stability fee split and routed on-chain.

ZK Solvency

SOLVENT status published on-chain every cycle.

Architectural Truth I: Polkadot Native

Ethereum Architecture

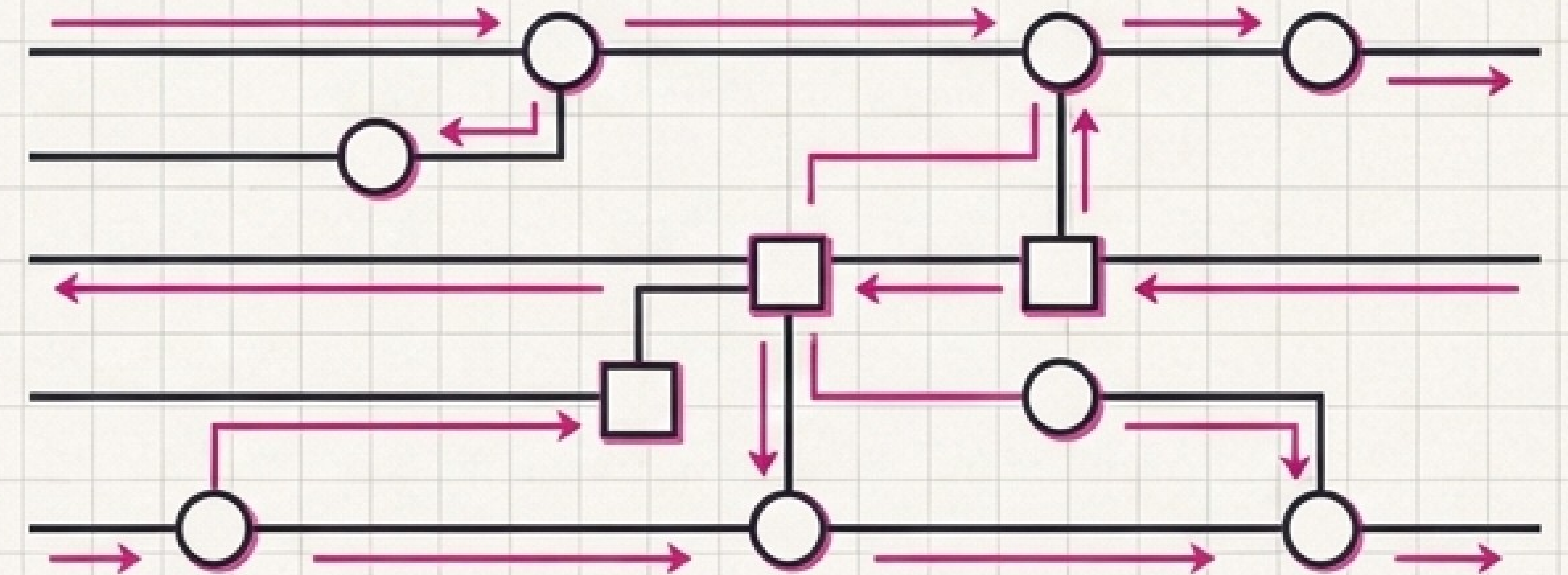


Bridge Risk: Counterparty risk defeats the point of liquid staking.

Wrapping Risk: Peg risk and custodian issues for non-native USDH.

Centralization: Reliance on external Chainlink feeds adds cost.

Polkadot Hub Architecture

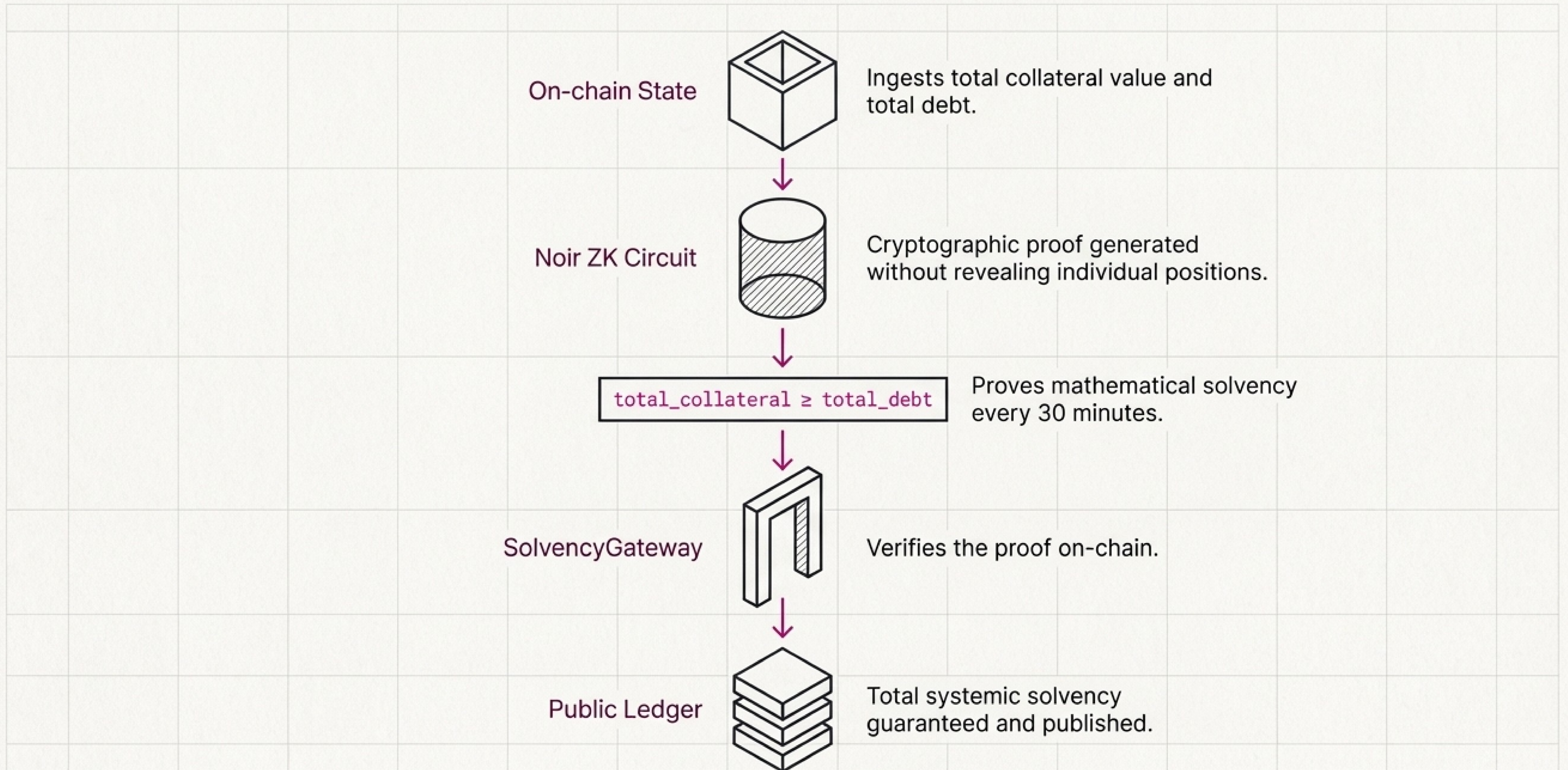


Native Assets: vDOT and USDH require no wrapping, no bridges, and no intermediaries.

Composability: XCM makes assets inherently composable across every parachain.

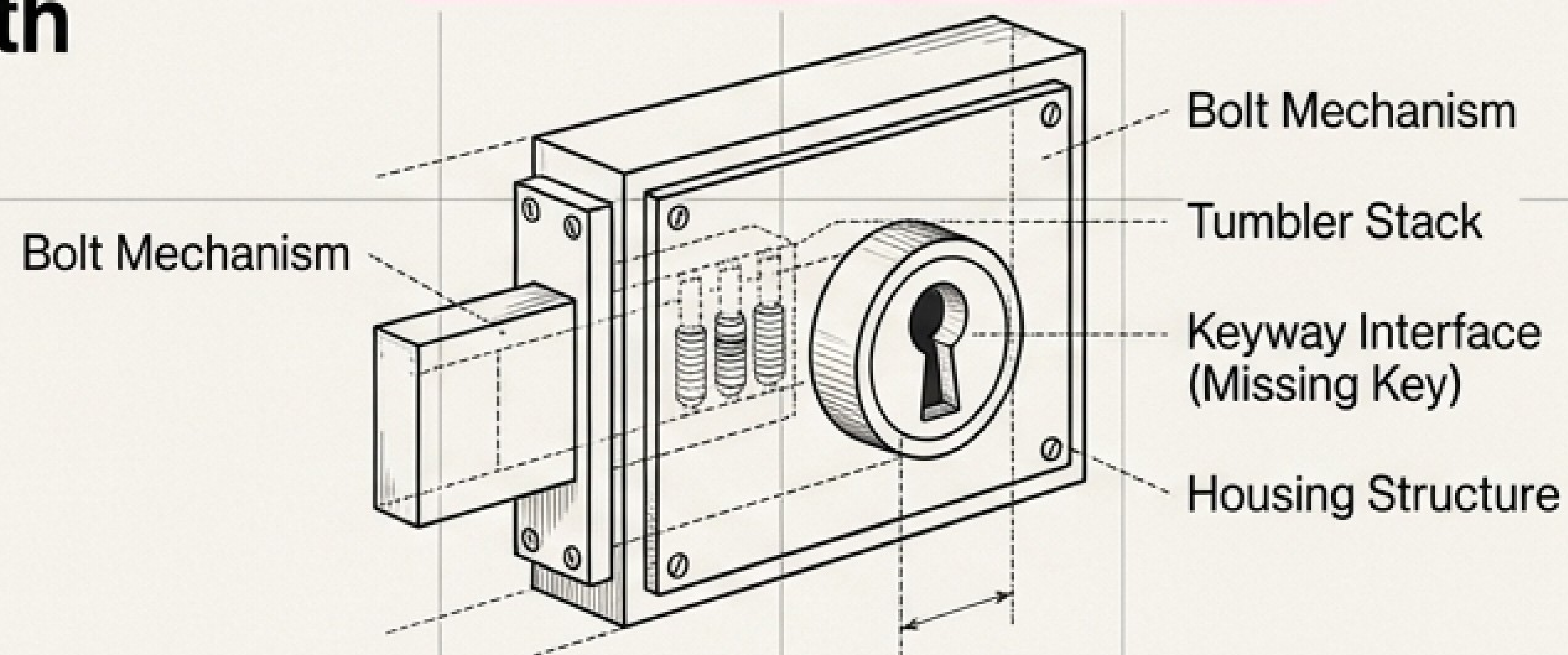
Trustless Oracles: Hyperbridge ISMP delivers price feeds directly from Hydration's Omnipool.

Architectural Truth II: The ZK Solvency Pipeline



Radical Transparency: The Precompile Truth

Under Construction / Upgrade Ready



The Current State

DotLend is running a MockSolvencyVerifier on testnet.




The Blockers

The real UltraHonk verifier requires BN254 precompiles (EIP-196/197) which PolkaVM currently lacks.

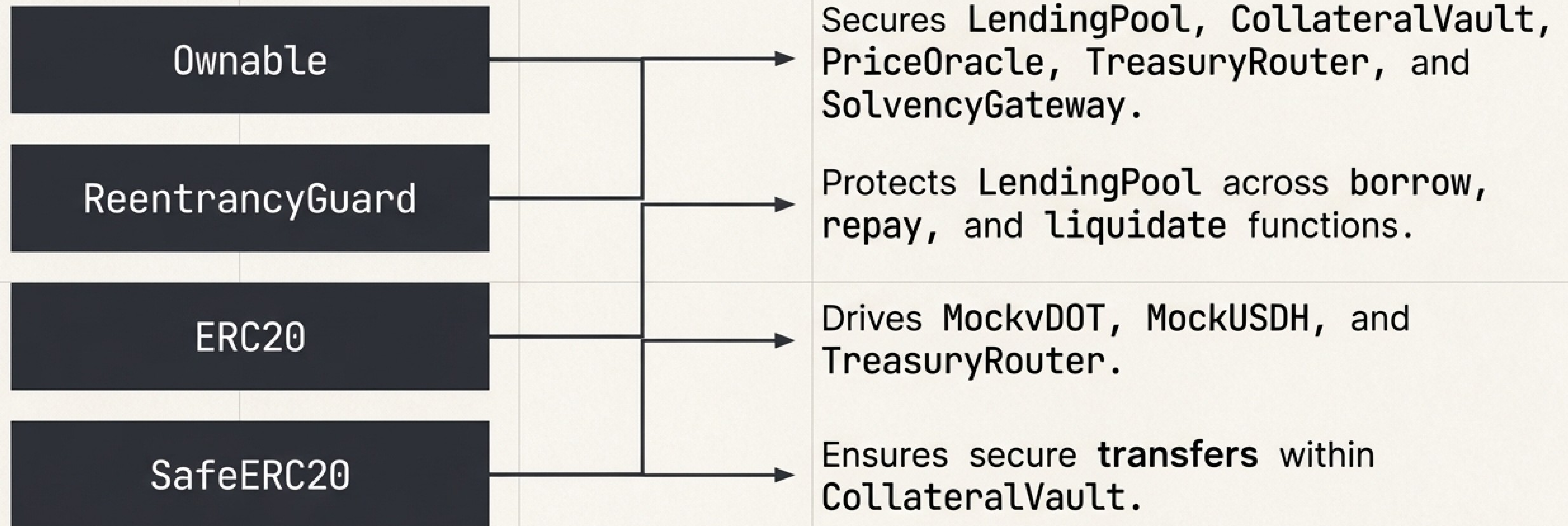
The Readiness

The full pipeline (Noir circuit, proof generation, verification gateway) is built, repo-tested, and ready to deploy the exact moment PolkaVM upgrades to support BN254.

Building in the Trenches: PolkaVM vs. EVM

Constraint		Architectural Pivot
<code>Initcode bytecode limits exceeded.</code>		Forced extraction of fee logic, birthing the superior, independently upgradeable TreasuryRouter .
<code>resolc compiler lacks OpenZeppelin v5 support.</code>		Architecture locked to rock-solid, heavily audited OpenZeppelin v4.9.6.
<code>No Chainlink available on Hub.</code>		Custom Python oracle posting DeFiLlama data every 30 mins, protected by a strict 20% deviation on-chain circuit breaker.

Deep OpenZeppelin Integration



The By-product: TreasuryRouter implements IMintBurn to bypass compiler limits while maintaining complete, isolated security.

AI Risk Advisor & Oracle

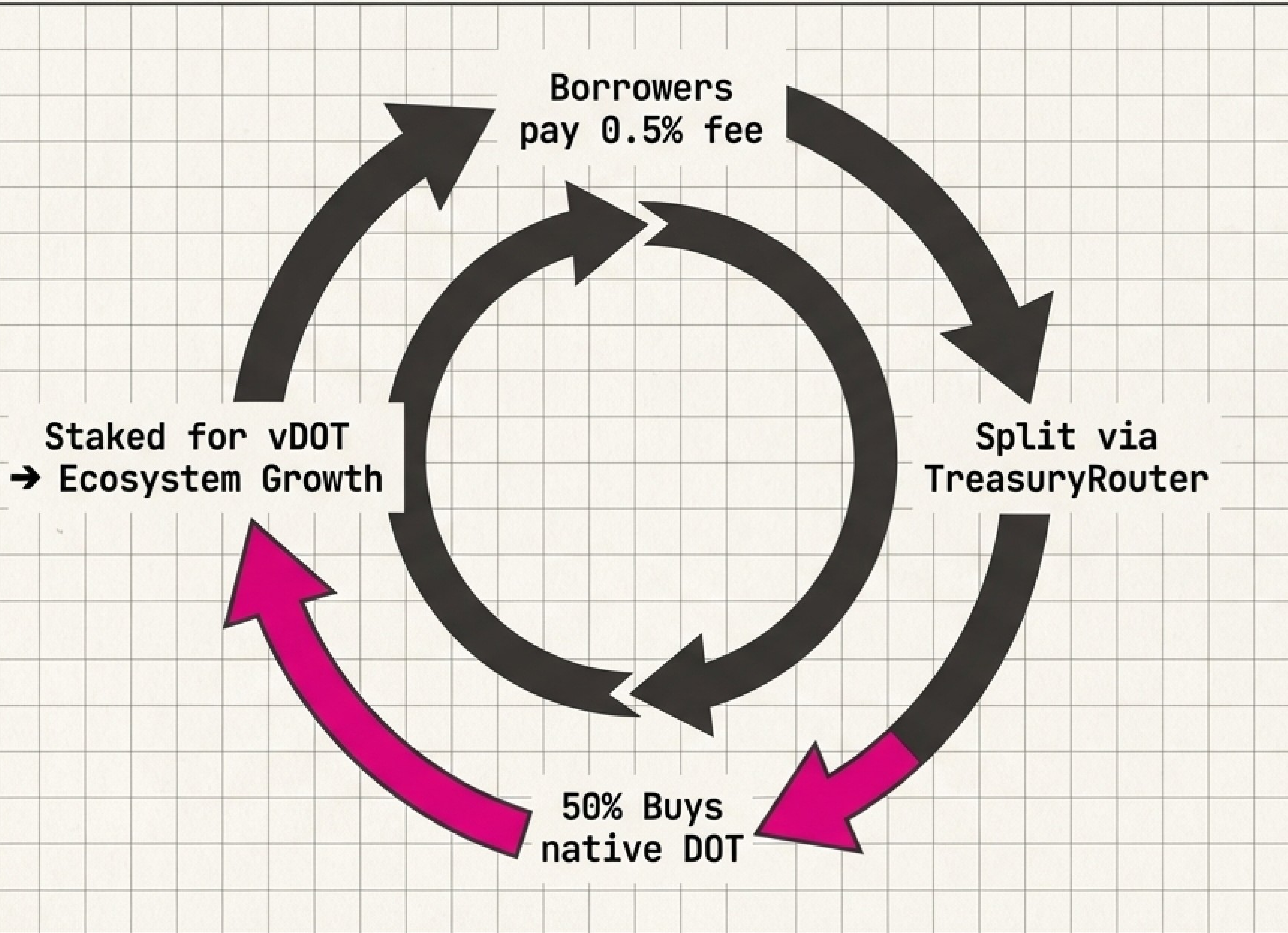
The interface displays three main components: a large white letter 'B' labeled 'Risk Grade', a line graph with a downward curve and a red dot labeled 'Simulated Price Drop Liquidation Horizon', and a pink text label 'AML Status: Cleared'.

Powered by a 30-minute **Python oracle** feeding live **DeFiLlama** data.

Provides every borrower with a live risk grade and price drop simulator.

Zero new contract calls, zero added gas costs—purely derived from live on-chain state.

The Revenue Flywheel



Fee Distribution Breakdown

50% DOT Buybacks: Converts borrowing activity directly into native token demand and governance staking.

38% Treasury: Funds protocol security, continuous audits, and multi-chain expansion.

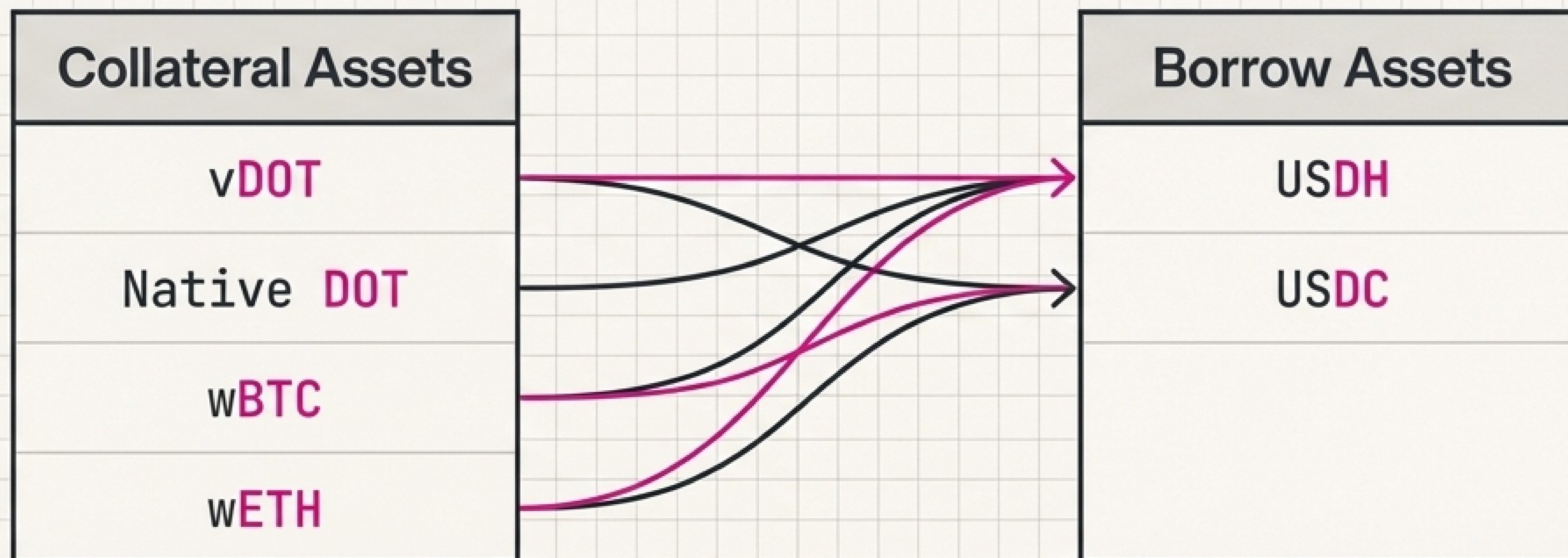
12% Team Allocation: Transparent, publicly documented sustainability for solo development.

Projections: \$40M TVL generates \$200K/year, funding a second engineer and audits.

Competitive Autopsy

Protocol	Status	Relationship to DotLend
Parallel Finance	Dead (Was \$29M TVL)	Right idea, wrong time. EVM infrastructure wasn't ready. Proves massive historical demand.
Acala	Depegged in 2022	Substrate-only, not EVM-native. Cannot support modern composability.
Bifrost	Active Liquid Staking	Not a competitor. Highly complementary as vDOT is DotLend's primary collateral asset.
Hydration	Active DEX	Not a money market. DotLend acts as a massive liquidity sink and growth engine for Hydration.

The Snowbridge Opportunity & V2



\$75M+ in Snowbridge assets (wETH, wBTC, USDC) are already on Hub with zero lending utility.

DotLend V2 unlocks the full two-sided market:
Deposit wBTC, borrow USDC.
Deposit DOT, borrow wETH.

Conservative TAM Target:

Capturing just 5% of Polkadot TVL brings \$40M in liquidity and \$200K/yr sustainable revenue.

Roadmap & The Ask

Q2 2026: W3F Grant
/ PAL Audit
/ Velocity Labs

Q3 2026: Mainnet Launch
/ Real vDOT + USDC
/ ISMP Oracle

Q4 2026:
DOTLEND Token
Governance

> ASK_01: HACKATHON WIN

Validation of the technical foundation and initial funding to build full-time.

> ASK_02: W3F GRANT

Specifically earmarked to fund a professional PAL security audit. Serious TVL requires serious auditing.

> ASK_03: EARLY DEPOSITORS

Bootstrap the first \$1M TVL to ignite the DOT buyback flywheel and launch the market.