

# Cross-chain Public Goods

curve.finance



And more coming...



...but Curve DAO lives on Ethereum





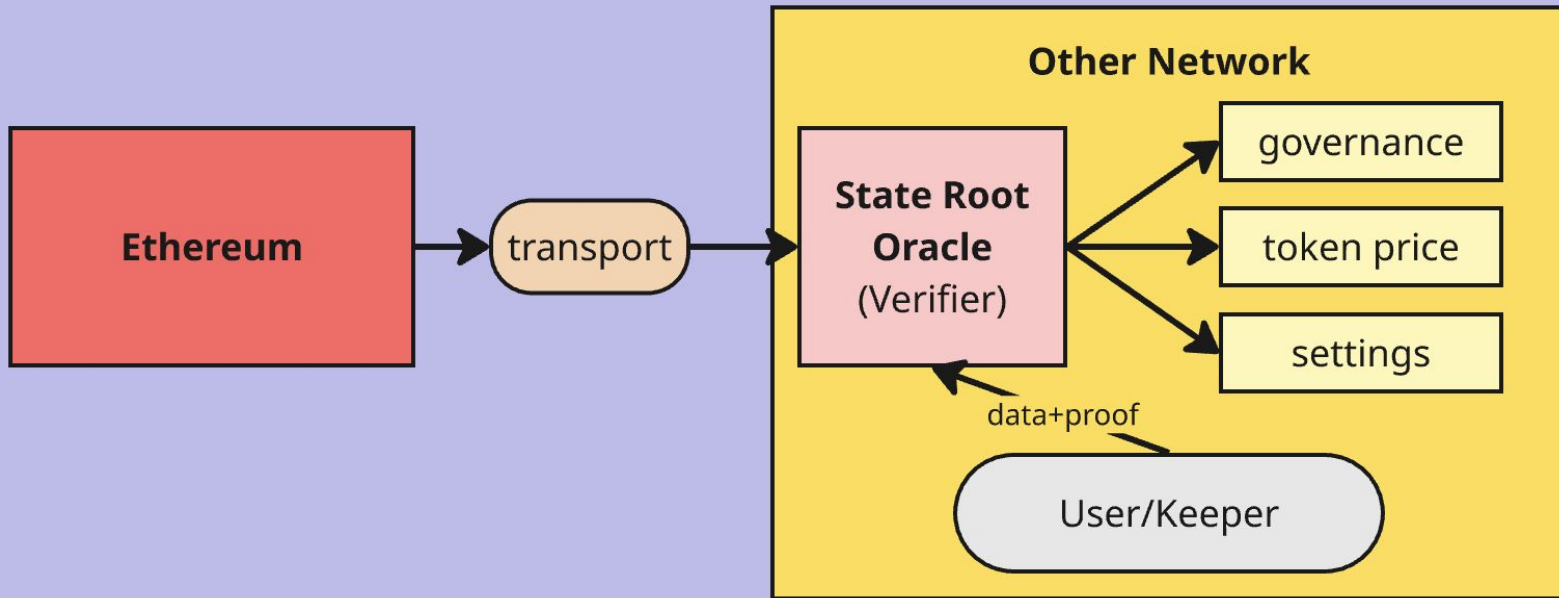
# Cross-chain messaging

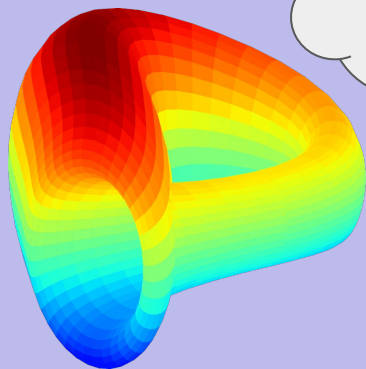
|              |  |   |
|--------------|--|---|
| <b>Type</b>  | Native<br>[Arbitrum, Optimism, Sonic, etc] bridges | Transport layer protocols<br>(LayerZero, CCIP, etc)         |
| <b>Risks</b> | L2-specific risk: chain can rug                    | Protocol trust assumptions:<br>infra, contracts, validators |
| <b>Code</b>  | Maintaining every solution                         | One implementation for all<br>supported networks            |



# Block hash/state root approach

One interface for the whole codebase





we need  
storage proofs

sorry, wait for the  
next release with  
dynamic bytes  
calldata  
allocation



criticals?

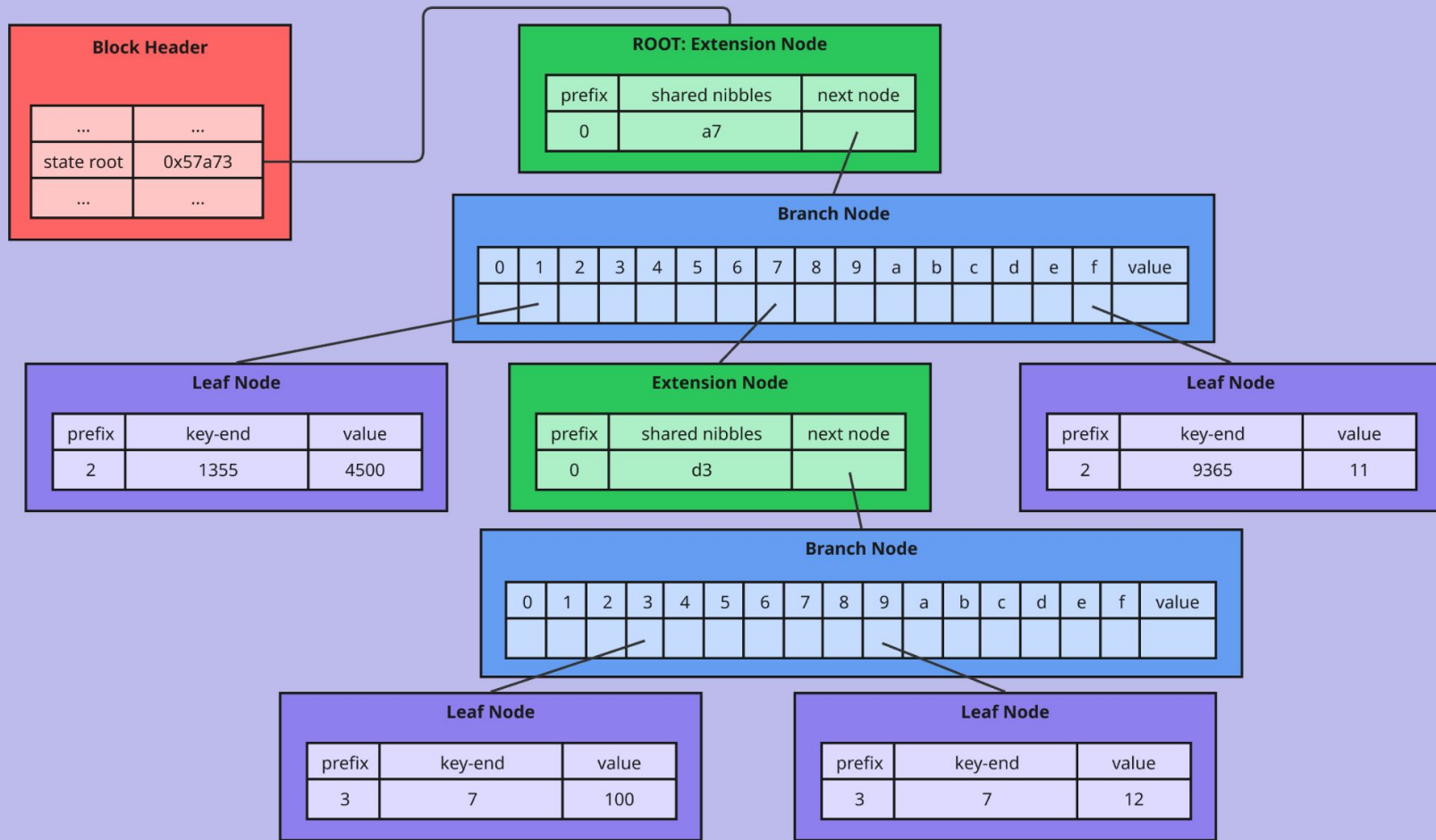
here you go,  
don't mind the  
criticals



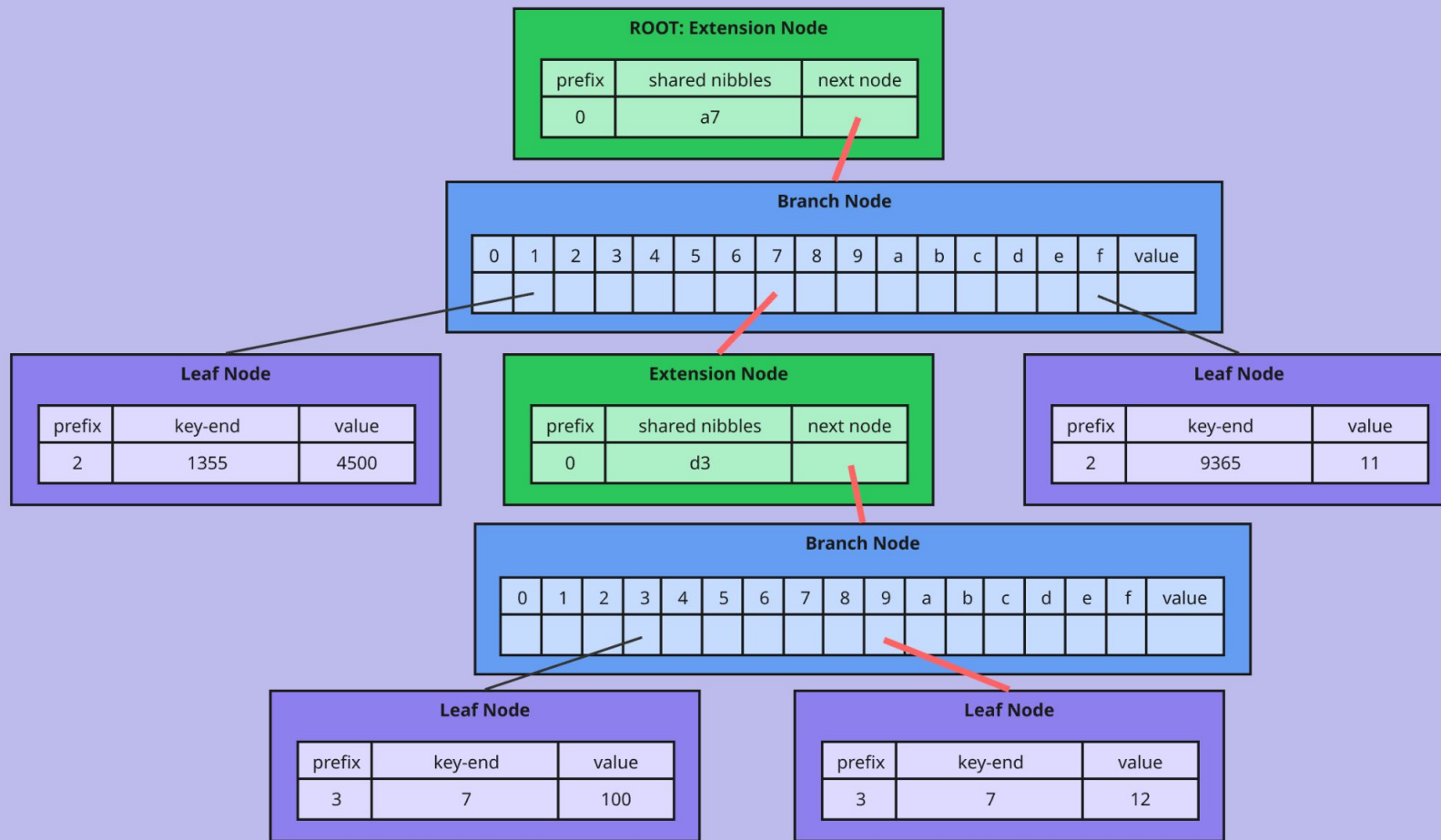
**CHAINSECURITY**

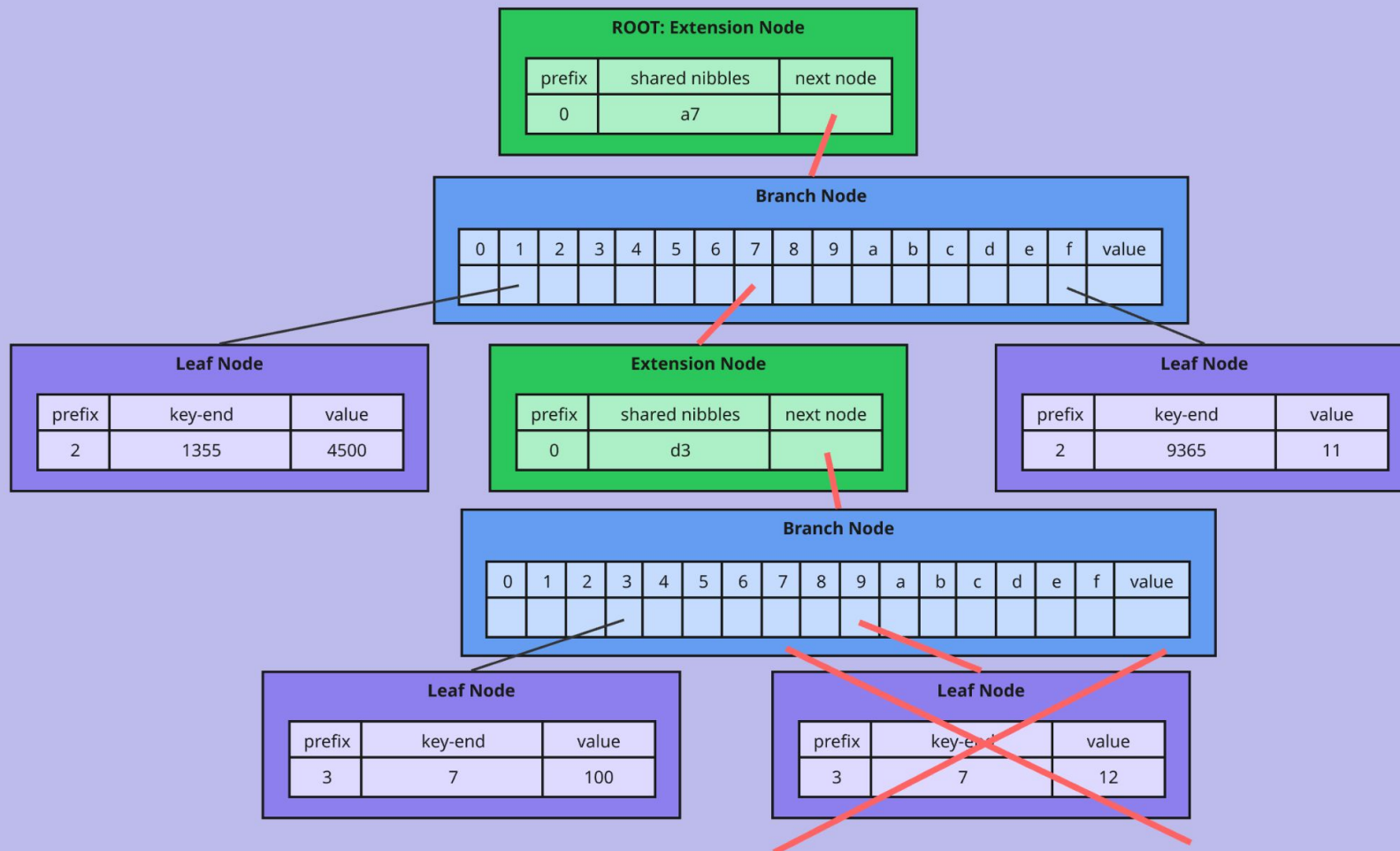


# Storage proofs deep-dive



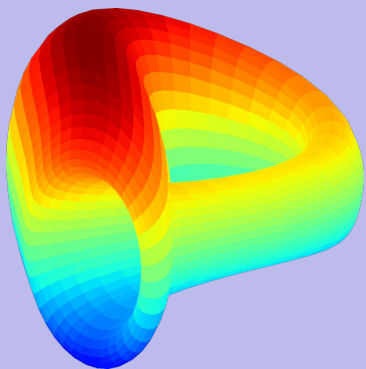








# Curve's contribution



<https://github.com/curvefi/LayerZero-v2-vyper>



# Curve's oracle

- provides fresh Ethereum mainnet blockhash / state root
- everywhere where curve is deployed (20+ chains)
- curve keepers (pull update is permissionless!)
- using native bridges where possible
- using LayerZero for others/at initial curve-lite deployment
- in-house Curve DVN
- crosscurve DVN supporting Axelar, CCIP and others
- available for everyone!