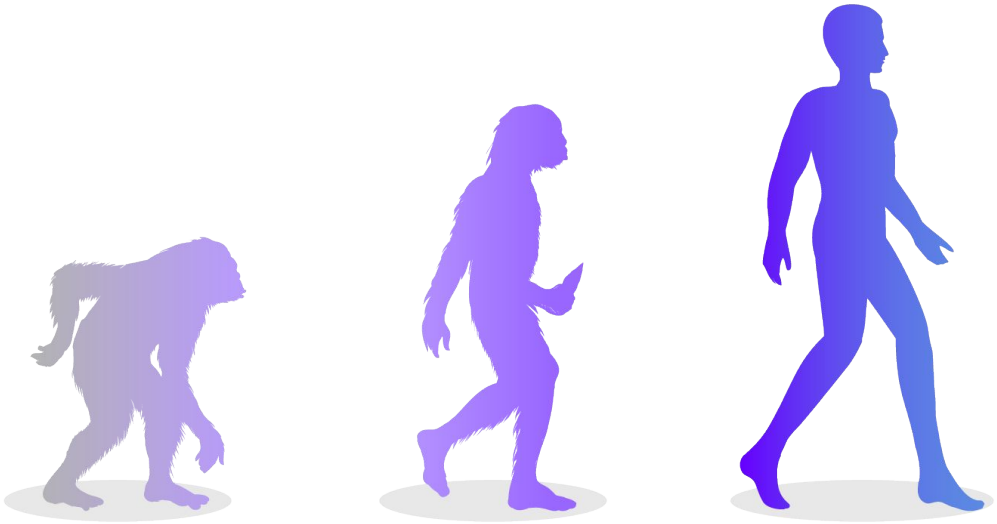
The Age of AGGREGATION



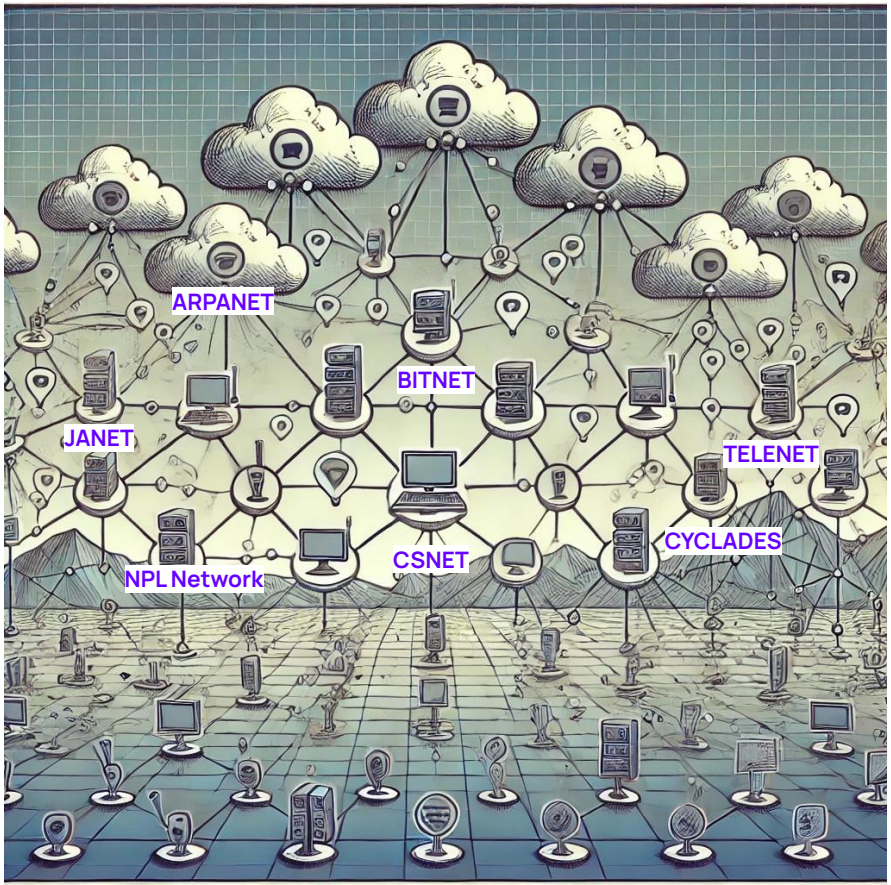
UNLIMITED SCALABILITY
UNIFIED LIQUIDITY

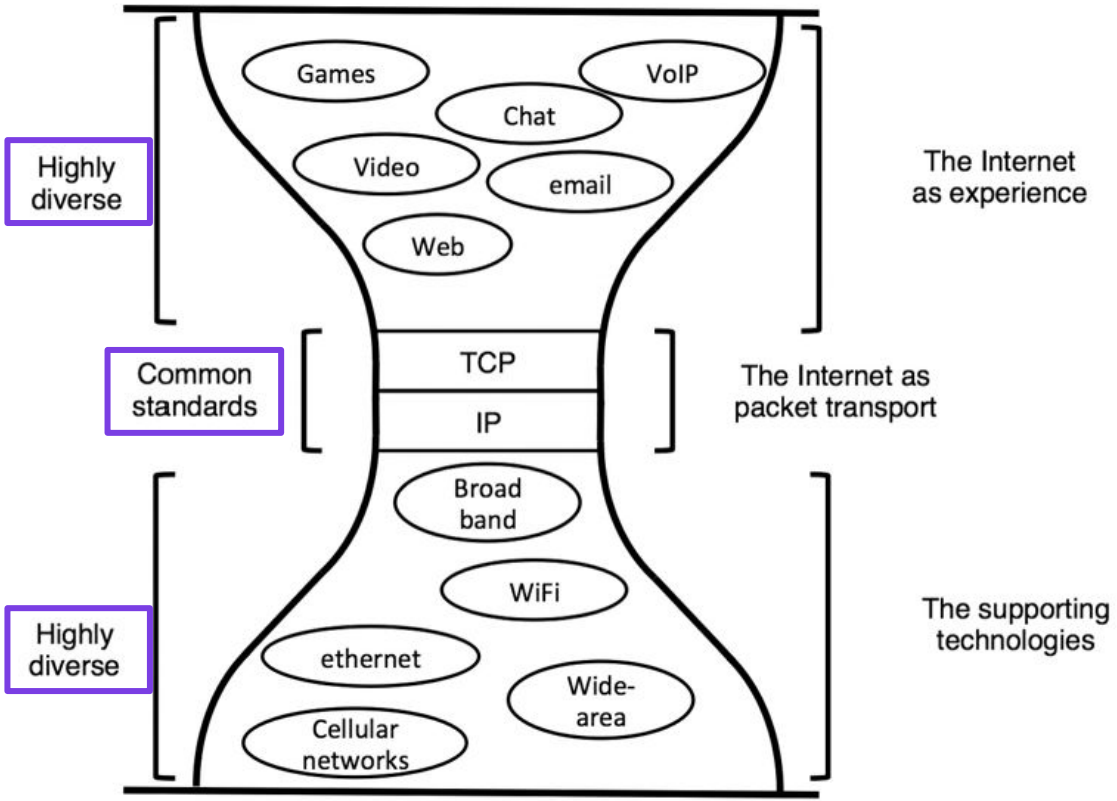
Marc Boiron

polygon

A quick & dirty history of the Internet

- Many computer networks
- Disconnected
- Unable to communicate





Source: https://aaronparecki.com/2020/02/15/2/

Web3 Main Challenges

FRAGMENTATION

SCALABILITY

SECURITY

UX

Challenge I: Fragmented Liquidity

Challenge II: Scalability

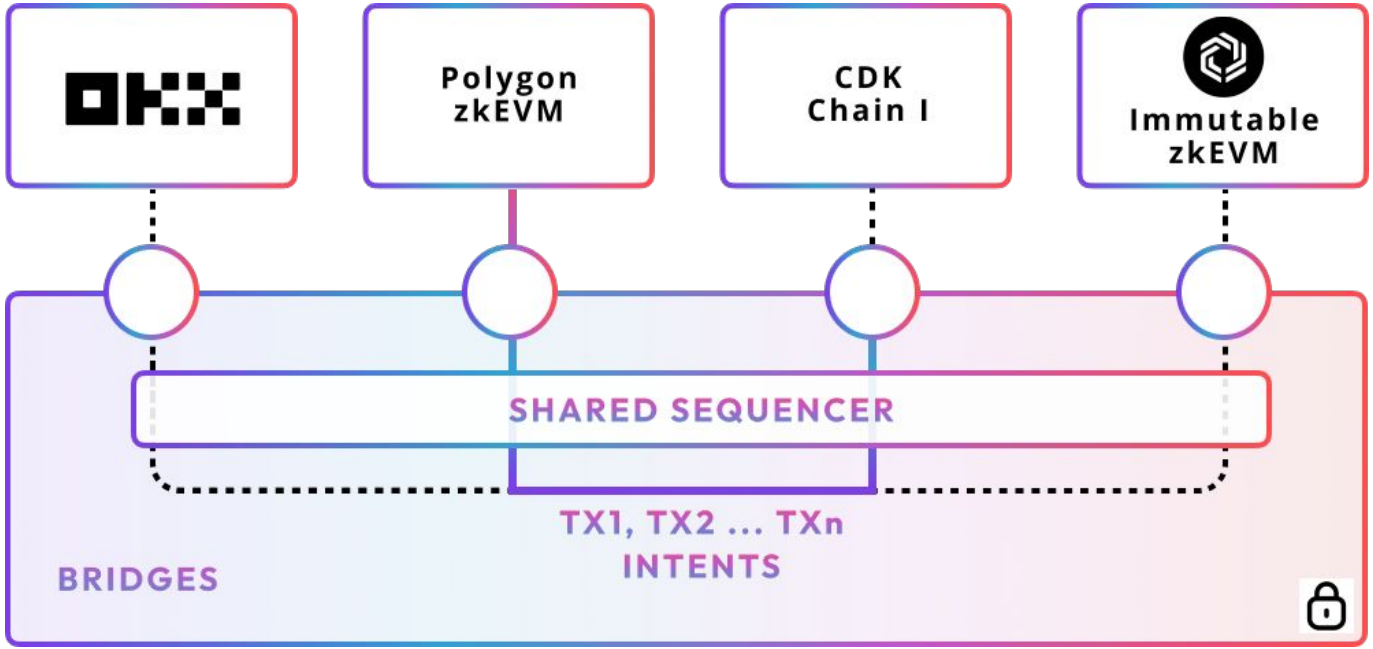
What do we have today?

Up to 250k tps

Up to 65k tps

Up to 10k tps

Challenge III: Security



Challenge IV: User Experience

Wallets





Bridges & Intents





Standalone Chains





Potential solutions?

Monolithic chains are not fast enough

tps: 8; peak: 13

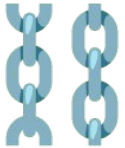
tps: 15; peak: 62

tps: 716; peak: 7229

Source https://chainspect.app/dashboard

Are modular chains the solution?

Modular chains increase fragmentation

 Aggregate all chains 

This is how we prepare Web3 for Internet scale adoption

- ✓ Practically infinite tps
- ✓ Unify state, liquidity, and users

What is the AggLayer ?

The AggLayer is a neutral, cross-chain settlement layer that unifies liquidity, users, and state of aggregated chains, and posts finality to Ethereum.

AggLayer components

PESSIMISTIC PROOFS

Creates security: No chain can withdraw more assets than have been deposited on the unified bridge.

PROOF AGGREGATION

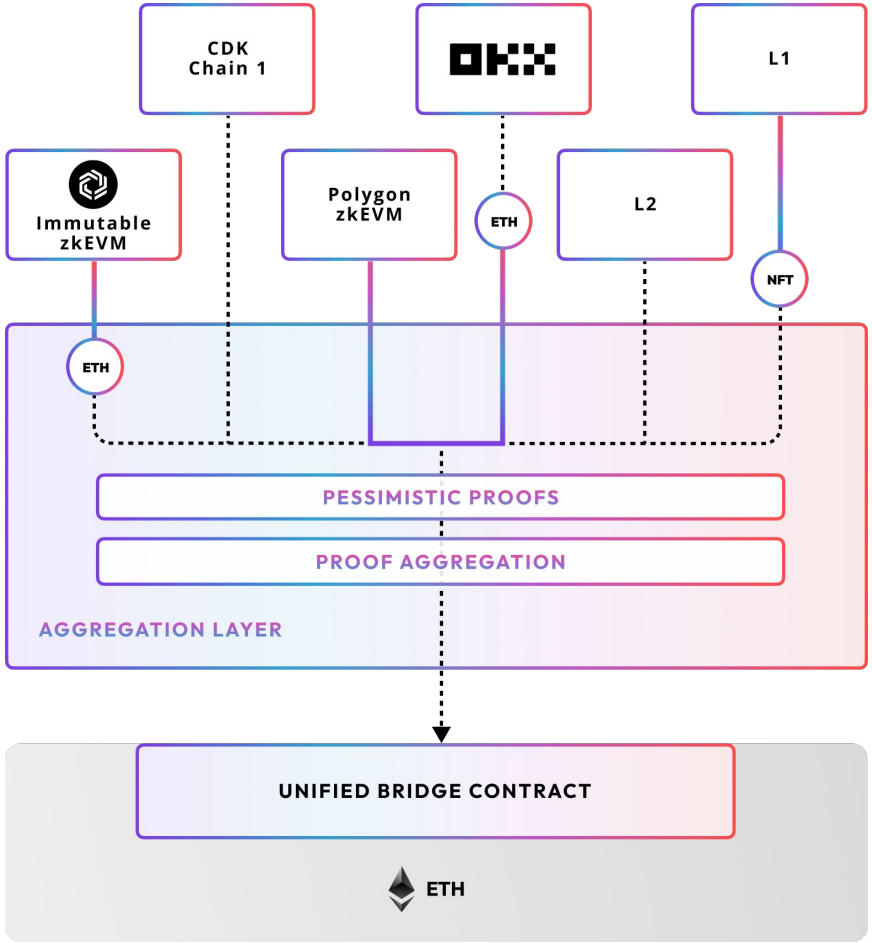
Lowers costs: Proofs across all chains are aggregated along with the pessimistic proof to amortize costs.

UNIFIED BRIDGE

Fungible tokens: Eliminates the need to wrap and unwrap tokens, providing a unified xperience

FAST INTEROP

Lowers latency: Allows for interoperability at a latency lower than Ethereum finality



AggLayer benefits

NATIVE TOKENS

Obviates wrapped tokens as chains use a native version of the tokens across the entire network, improving not only liquidity, but UX as well.

SAFE CROSS-CHAIN TXN

Chains are secured with a functional & performant ZK prover. Benefit from Ethereum's security and be secured by Pessimistic Proofs.

COMPATIBILITY

Compatible with shared sequencers, intents, and, other cross-chain infra.

MESSAGING

Asset first but messaging enabled, allowing for all cross-chain messaging needed.

CHAIN ABSTRACTION

Enables better chains abstraction with features like Bridge and Call, which allows users to perform multiple cross-chain transactions in one click.

LOW LATENCY

Access liquidity from any connected chain at sub-Ethereum latency.

AggLayer Ecosystem

AggChains


Bethel


GPT Protocol


Haust Network


IoTeX


Lumia


Moonveil


Movement Labs


Polygon PoS


Polygon zkEVM


Sentient


Silicon


Swell


TON Applications Chain


Wilder World


Wirex


Witness Chain


X Layer (OKX)

Core Contributors


DapDap


Espresso


Fabric


Gateway.fm


Irreducible


Near


Nodekit


OKX


Polygon Labs


Succinct


Union

RaaS Providers


AltLayer


Gateway.fm


Gelato


iGreenData


IntellectEU


Lumoz


Nodeinfra


Zeeve

Updated: September 2024

AggLayer isn't rent seeking

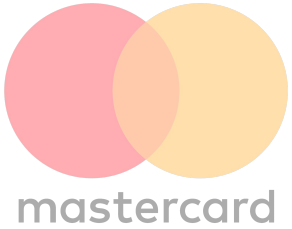
Unlike some other multi-chain architectures, the AggLayer doesn't require fixed revenue or profit sharing to join.
The AggLayer has a simple pay-as-you-go model for chains based on interop and proving requirements.

Challenge I: Fragmented Liquidity

Challenge II: Scalability

What do we have today?

SOLVED

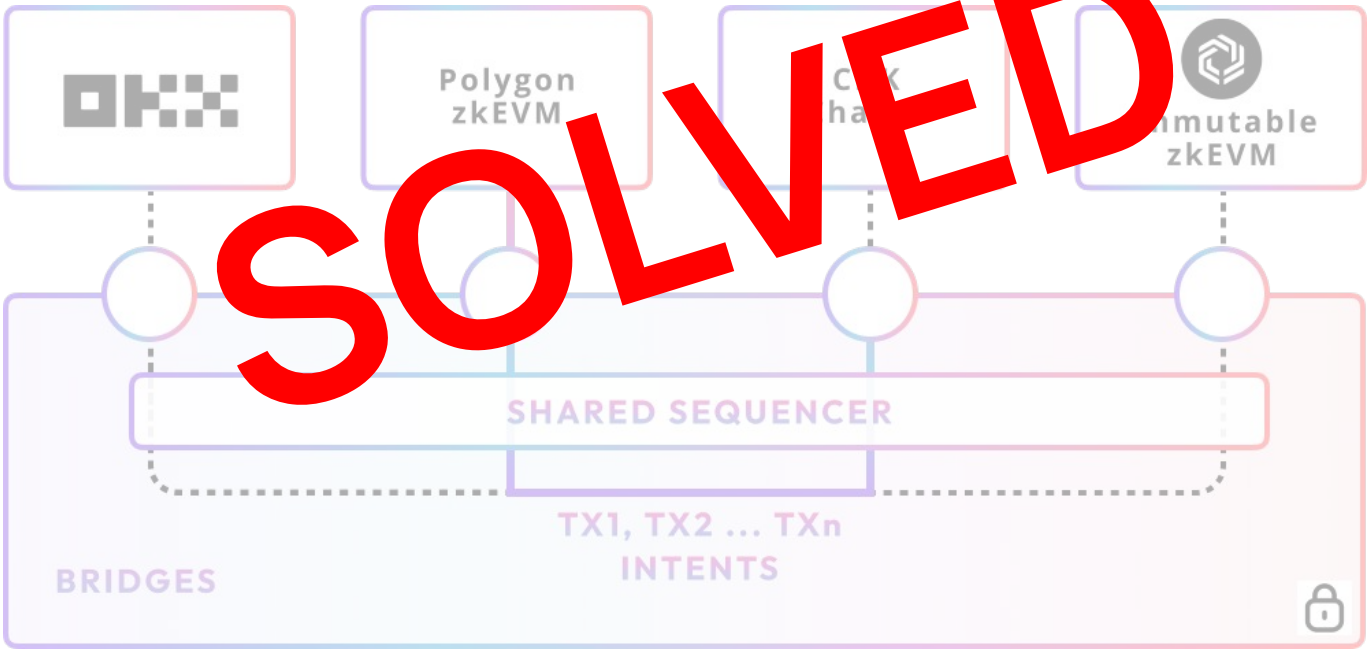


Up to 250k tps

Up to 65k tps

Up to 10k tps

Challenge III: Security



SOLVED

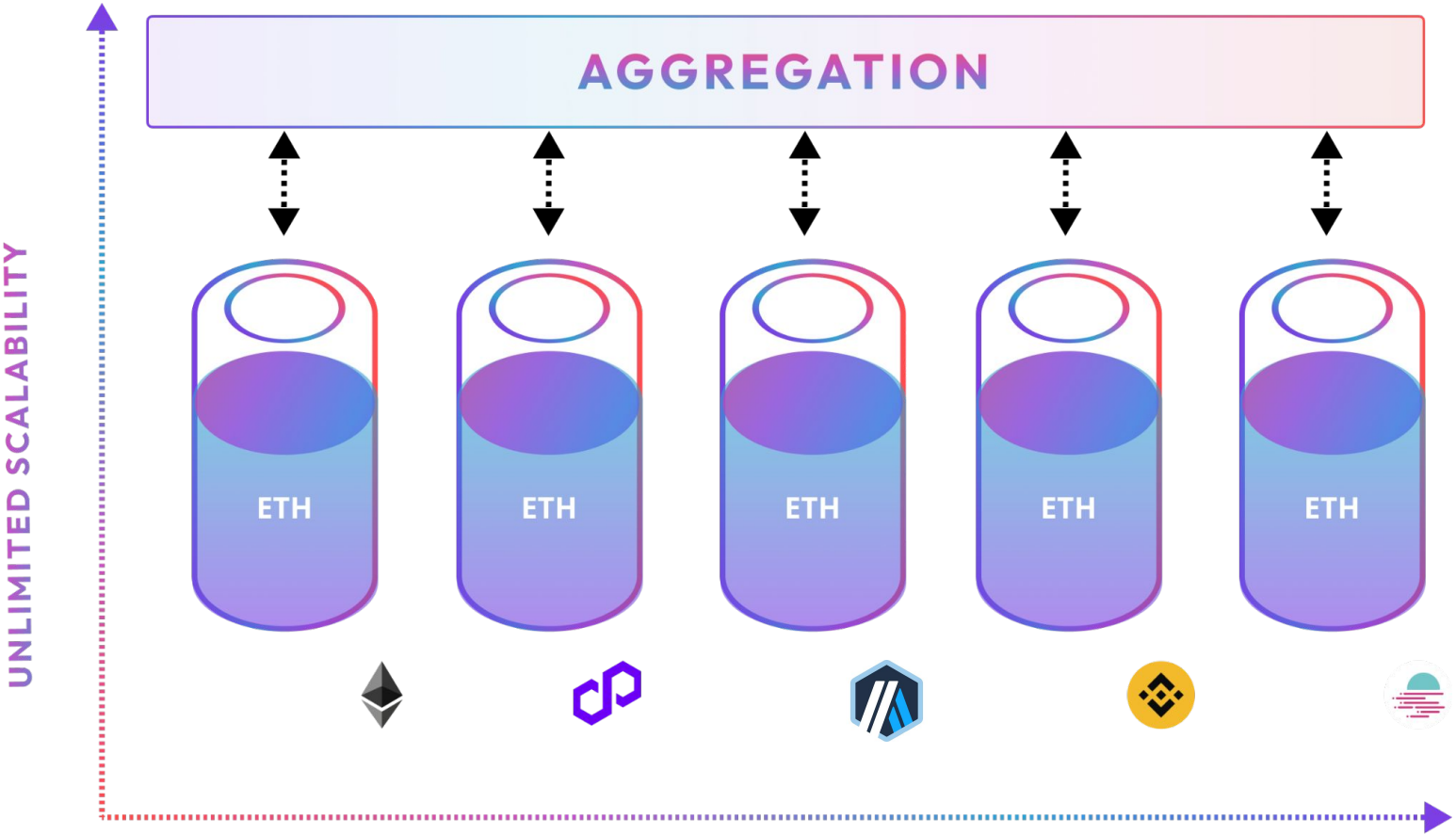
Challenge IV: UX

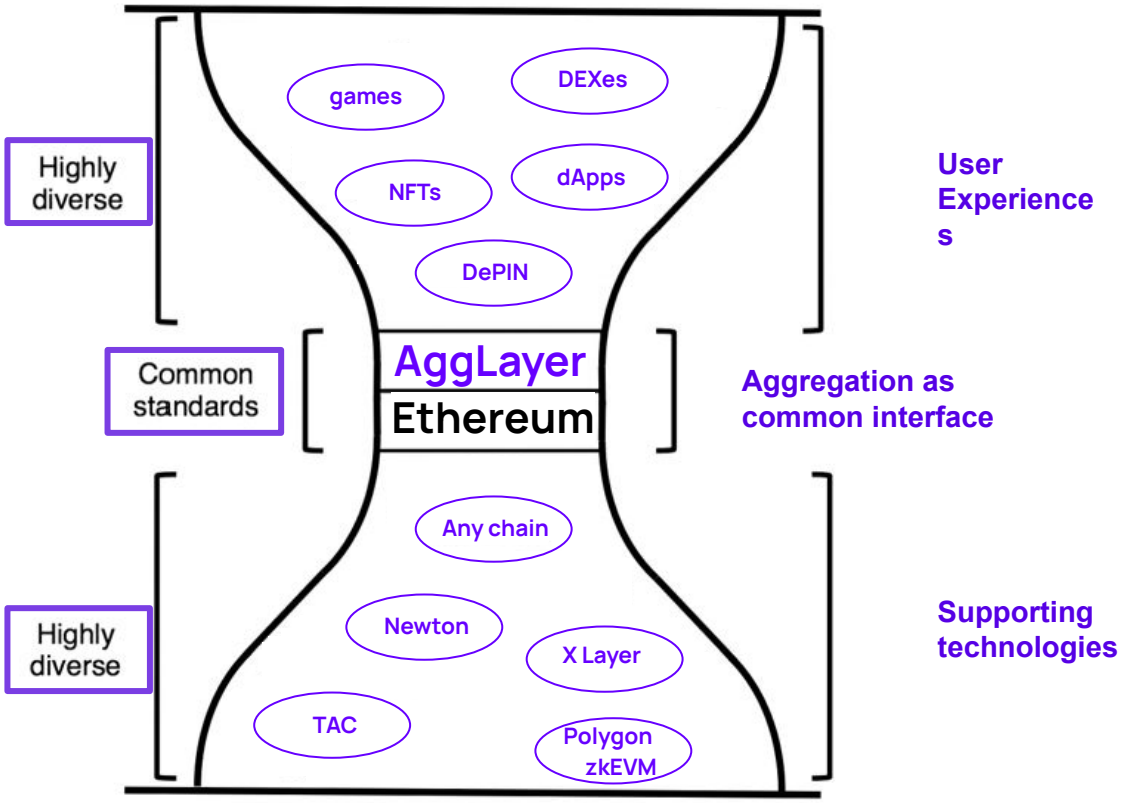
Wallets

SOLVED

Bridges & Intents

Standalone Chains


AGGREGATION
ETH
ETH
ETH
ETH
ETH
UNLIMITED SCALABILITY
UNIFIED LIQUIDITY


games
DEXes
Highly diverse
NFTs
dApps
DePIN
User Experiences
Common standards
AggLayer
Ethereum
Aggregation as common interface
Any chain
Highly diverse
Newton
X Layer
TAC
Polygon zkEVM
Supporting technologies

Thank You!