



OneBalance

Tools to Upgrade Society



the ethereum roadmap



2013

everything on ethereum



“big Ethereum”



Ethereum: A Next-Generation Smart Contract and Decentralized Application Platform.
By Vitalik Buterin (2014).

When Satoshi Nakamoto first set the Bitcoin blockchain into motion in January 2009, he was simultaneously introducing two radical and untested concepts. The first is the "bitcoin", a decentralized peer-to-peer online currency that maintains a value without any backing, intrinsic value or central issuer. So



2013 everything on ethereum → “big Ethereum”


2020 everything on a few rollups → “big rollups”

A rollup-centric ethereum roadmap

ethereum-roadmap, layer-2



vbuterin

4  Oct 2020

What would a rollup-centric ethereum roadmap look like?

Last week the Optimism team [announced](#) ⁷⁸⁷ the launch of the first stage of their testnet, and the roadmap to mainnet. They are not the only ones; [Fuel](#) ⁴⁹³ is moving toward a testnet and [Arbitrum](#) ³⁴⁵ has one. In the land of ZK rollups, [Loopring](#) ³⁷¹, [Zksync](#) ³⁶⁹ and the Starkware-tech-based [Deversifi](#) ²⁸³ are already live and have users on mainnet. With [OMG network's mainnet beta](#) ³³³, plasma is moving forward too. Meanwhile, gas prices on eth1 are climbing to new highs, to the point where [some non-financial dapps are being forced to shut down](#) ^{1.0k} and



2013 everything on ethereum → “big Ethereum”
2020 everything on a few rollups → “big rollups”
2023 each app it's own rollup → “rollup clusters”

Optimism Goes multi-Superchain



The Optimism Collective

0xF5A

February 23rd, 2023



10K Collected

Mint



2013 everything on ethereum → “big Ethereum”

2020 everything on a few rollups → “big rollups”

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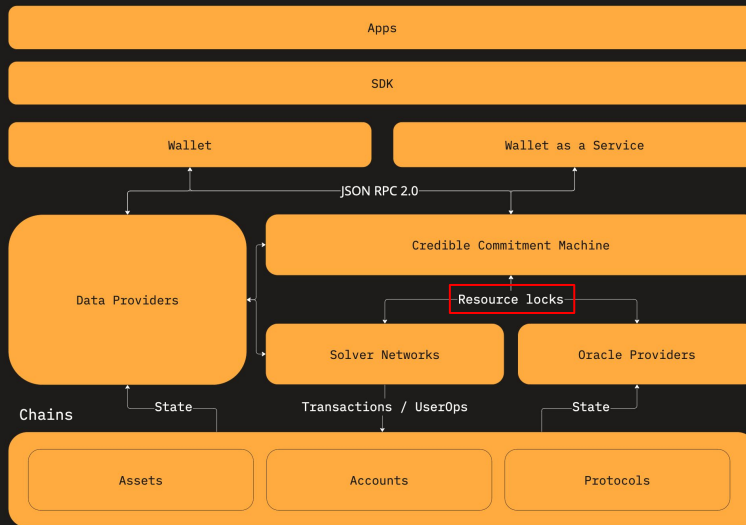
*impossible without **resource locks**!*



resource locks, intents,
and atomic interop



Resource Lock Stack





resource lock

=

finality
protection

+

equivocation
protection



resource lock

=

finality
protection

+

equivocation
protection

intent

=

input state

+

output state



resource lock

=

finality
protection

+

equivocation
protection

intent

=

input state

+

output state

resource lock
intent

=

resource
lock

+

intent

+

oracle



canonical
bridge



slow as fuck

fast as fuck

wait for finality



canonical
bridge

message
bridge



slow as fuck

fast as fuck

wait for optimistic finality



canonical
bridge

message
bridge

intent
bridge



slow as fuck

fast as fuck

wait for inclusion



canonical
bridge

message
bridge

intent
bridge

resource lock
intent bridge



slow as fuck

fast as fuck

wait for signature



paths to
atomic interop



agglayer / elastic

- *constrained by proving speed*
- *susceptible to L1 reorgs*

superchain / arb clusters

- *requires superbuilder*
- *foregoes chain sovereignty*

resource lock intents

- *constrained by liquidity*
- *black swan risk*



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chain abstraction toolkit

for apps

- *Chain / Bridge / Gas free UX*
- *Aggregate liquidity everywhere*
- *Teleport users between chains*
- *Monetize your orderflow*
- *Modular WaaS*

Try chain abstracted swaps:
app.onebalance.io

resource locks as a service

for infra

- *Reorg and equivocation protection*
- *Trust minimized destination chain execution*
- *Composable intents*
- *Modular Solvers*

Try resource lock bridging:
teleport.onebalance.io



2024

2025

2026

2027

2028

2029

2030



[redacted]





2024

2025

2026

2027

2028

2029

2030

its live.





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