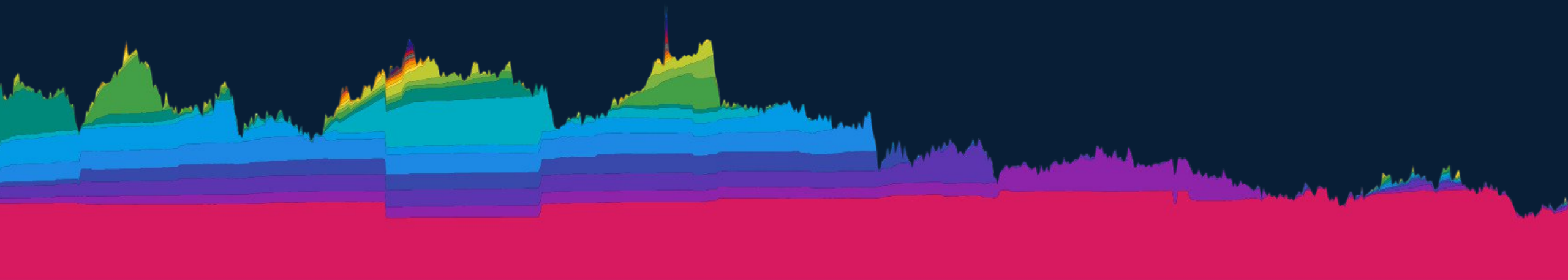
Boarding the Ark Is Crossing the Chasm

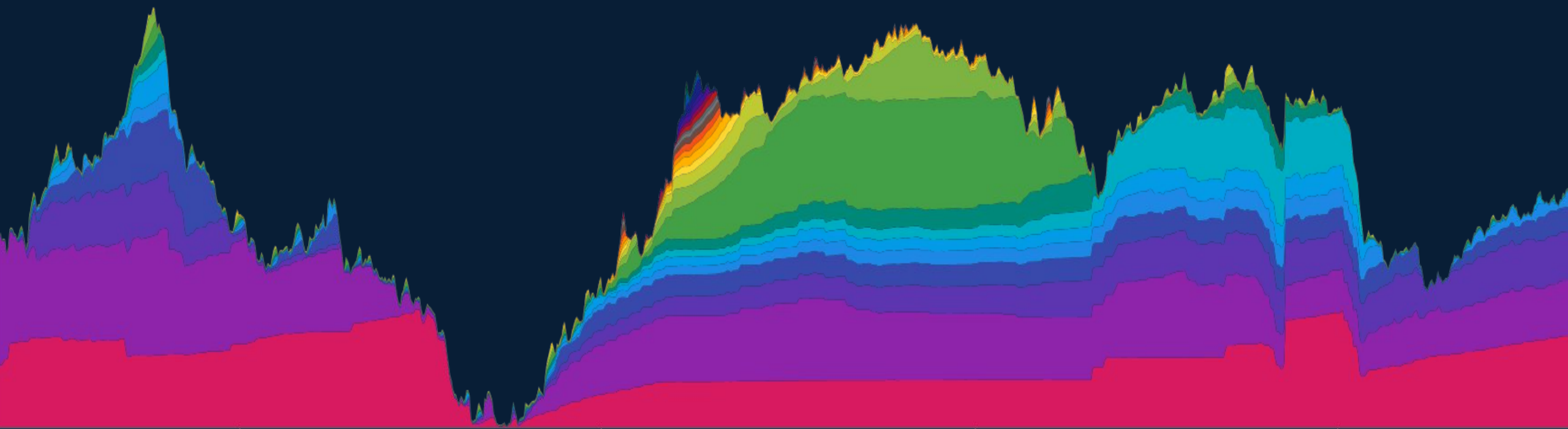
Why Ark?

Why Now?

Mainchain calm



For now



Ark and Liquidity

Ark puts liquidity management on the ASP

Ark and Liquidity

Ark puts liquidity management on the ASP
...which is the correct thing to do.

Compare: LSPs

Ark Primer

+ Users deposit UTXO, get VTXO
+ Ark batches user’s VTXO transactions in “rounds” onto the Bitcoin chain
+ The more transactions in a round, the cheaper for everyone
+ Out-of-round transactions possible, but that’s like 0-conf

Ark Primer

- Trustless only if tx included in round
- Can be slow, faster rounds the more txs but limited by Bitcoin blocktime
- Liveliness without covenants: all senders need to be online for signing in a round

Why Now?

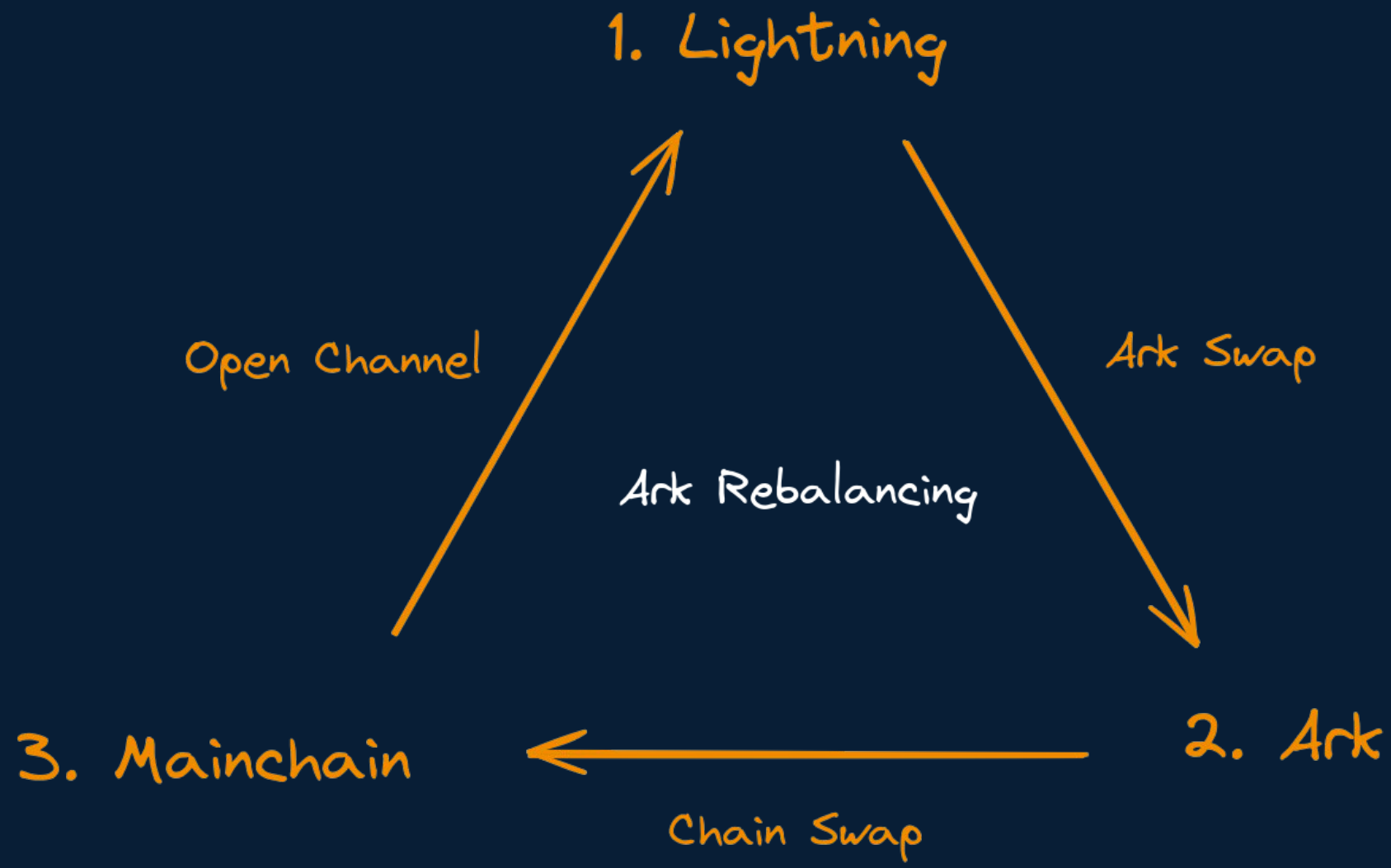
Channel rebalancing is here to stay!

How?

How?

+ Prevent overselling
+ Focus: covenant-less Ark
+ Ark is for professionals

First step: use Ark for rebalancing via Submarine Swaps


1. Lightning
Open Channel
Ark Swap
Ark Rebalancing
3. Mainchain
2. Ark
Chain Swap

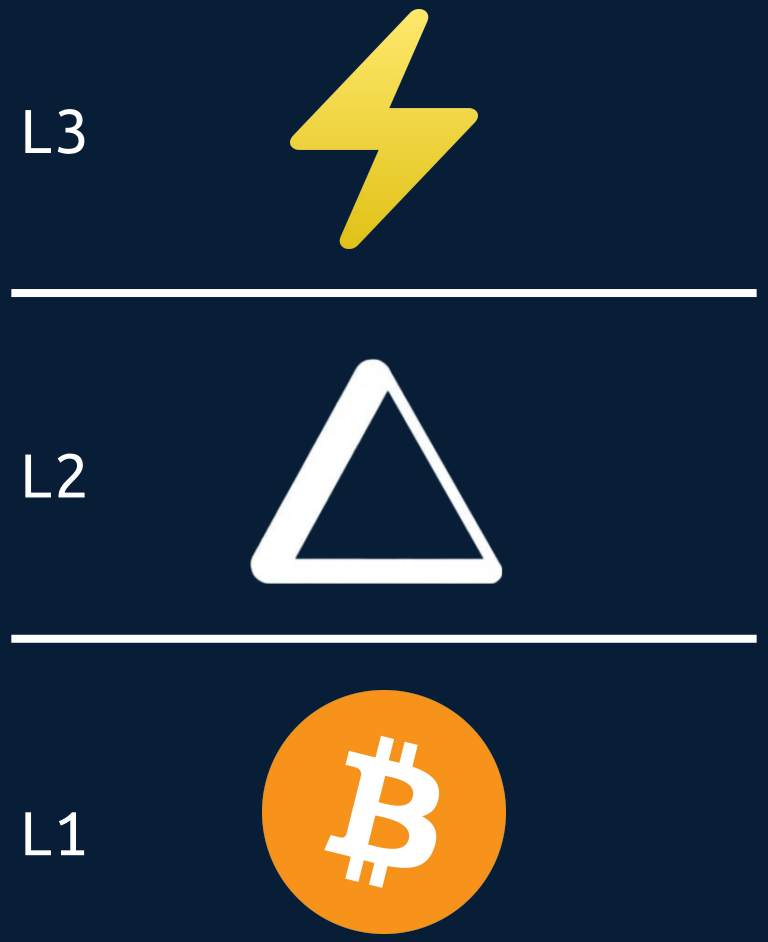
But the next logical step is...

Lightning on Ark 🤯

How?

+ Ark new “baselayer” for Lightning
+ Natively integrate rebalancing
+ The more rebalancing, the better (!= chain)
+ No more incentivizing of directional flow
+ Operating an Ark node matches professional LN

Moving Lightning One Layer Up



An Ark Lightning Network

An Ark Lightning Network

John Doe?

+ Use Lightning via swaps from other layers

Tl;dr

+ Lightning is awesome and not replacable
+ Ark and Lightning are for professionals
+ Ark is not THE solution for scaling
+ But its properties make it a fitting base layer for Lightning (and probably more)