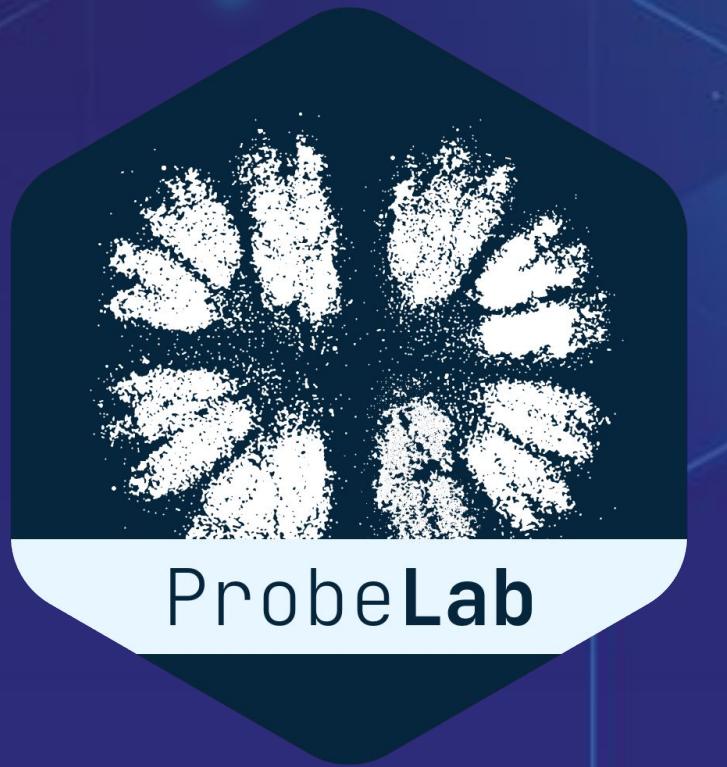
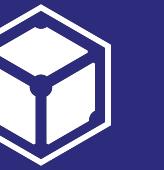


# ProbeLab

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Metrics for Data-Driven Protocol Design and  
Optimization



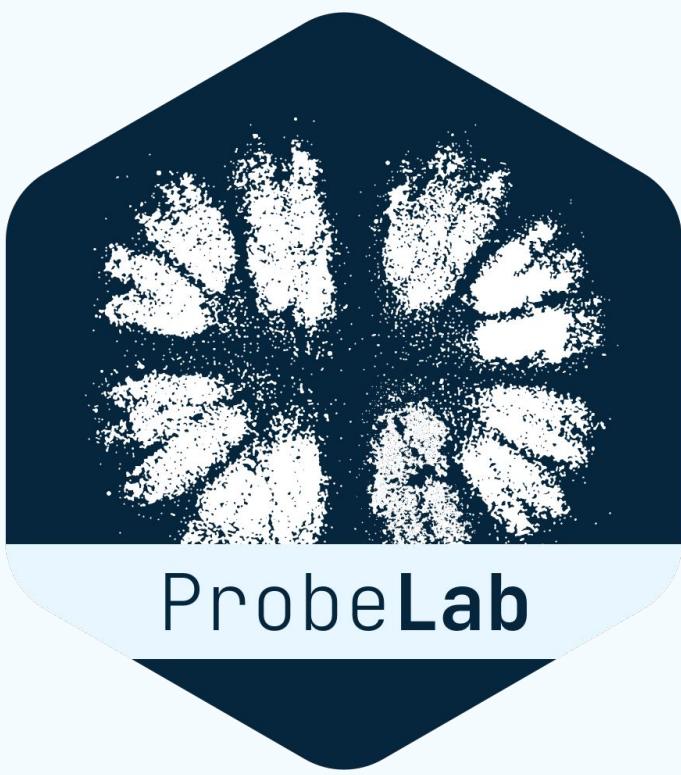


We distinguish signal from noise through *rigorous P2P protocol measurements and benchmarking* in order to make your P2P network faster.



# ProbeLab

## Why look deeper





## ProbeLab Impact:

# We make P2P networks better and faster

### Fetch Latency

## Latency Gains

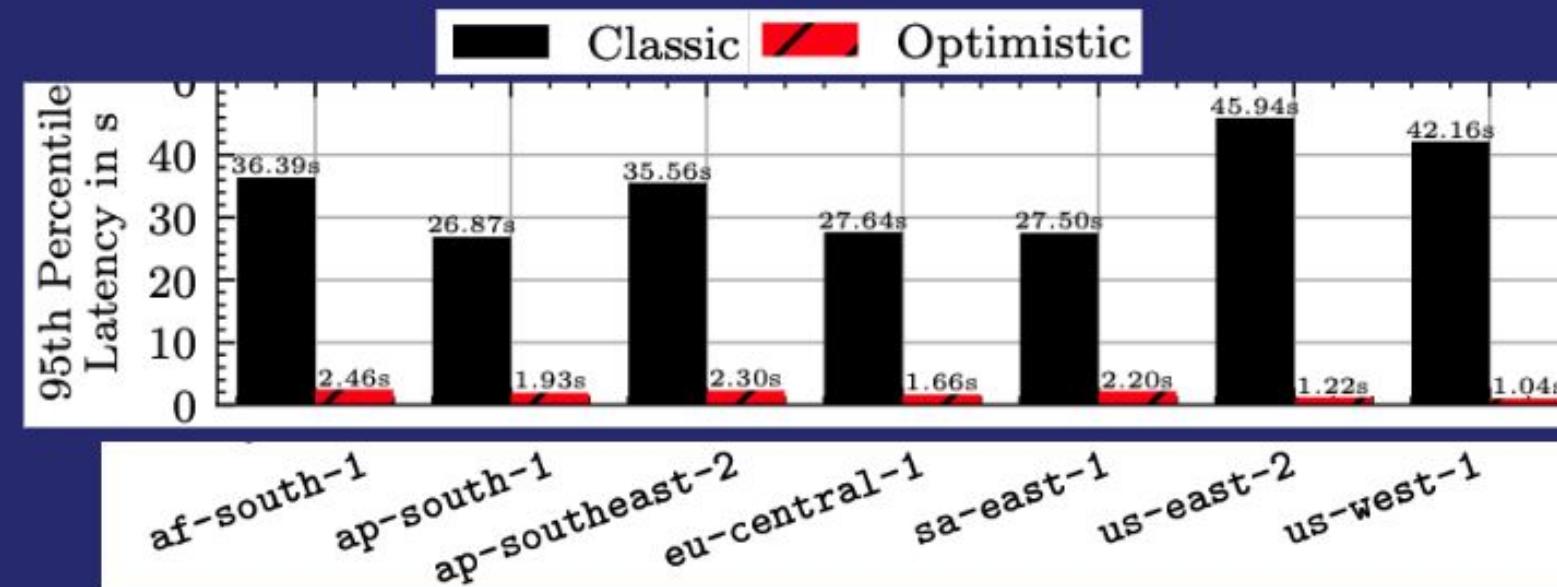
We've identified severe network incidents and reduced IPFS fetch latency by **50%**.



### Publish Latency

## Latency Gains

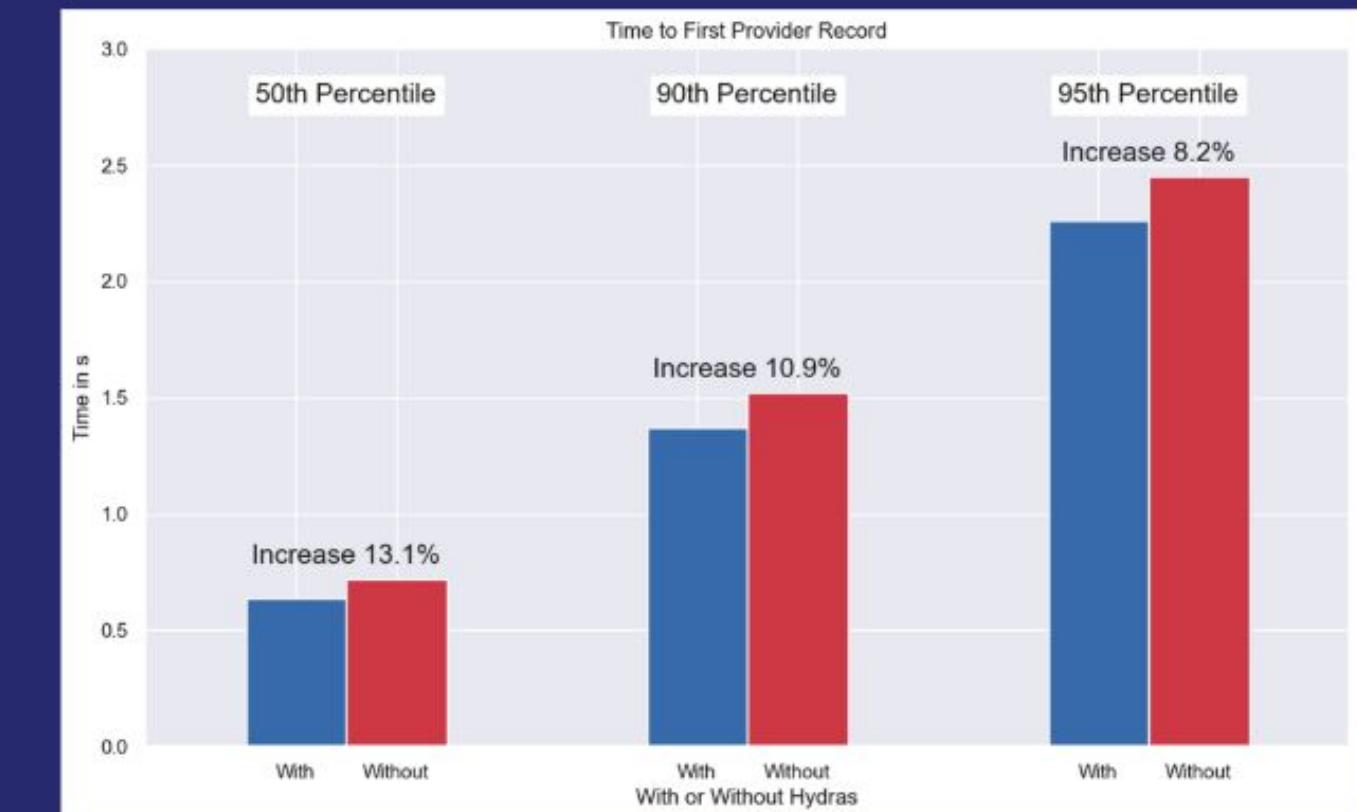
We've built Optimistic Provide to reduce publication latency to the IPFS DHT by **20x-40x**!



### IPFS Architecture Revamp

## Huge Cost Savings

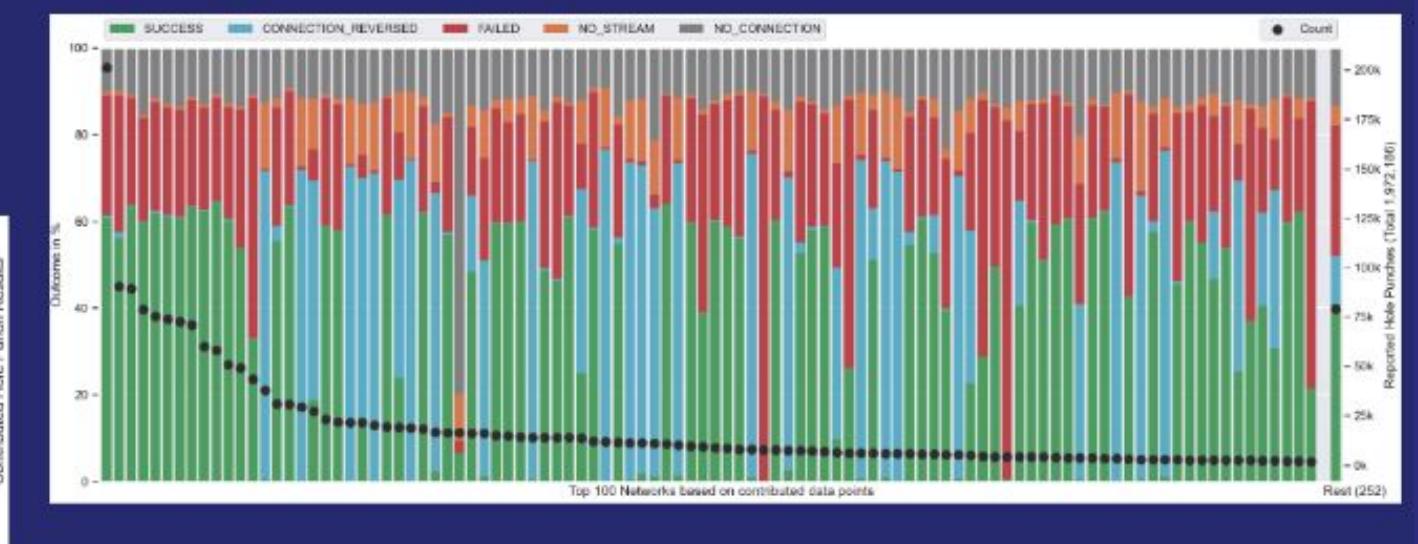
We identified that Hydra boosters were only improving performance of the Amino IPFS DHT network by ~**10%**, worked with the team to shut them down, and saved **~\$1.2M/yr.**



### NAT Hole Punching Campaign

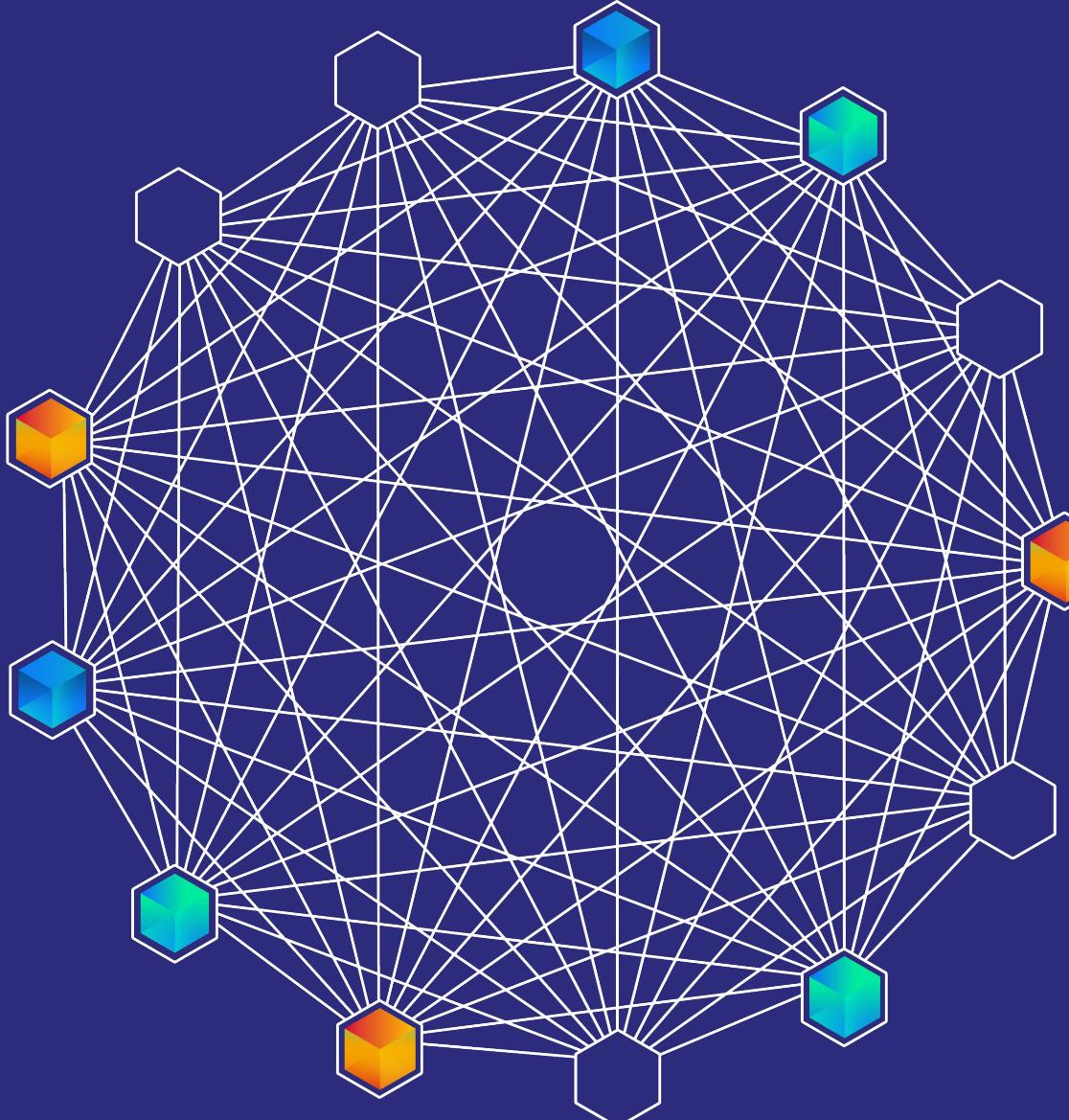
## libp2p Improvements

We've attempted **6.25M hole punches** in **167 countries** and **>350 networks**, made vital improvements to libp2p's NAT Hole Punching.





# Continuous Monitoring Infrastructure



We're monitoring the right metrics to quantify the health of Web3.0 networks and [save you money directly, or indirectly.](https://probelab.io)

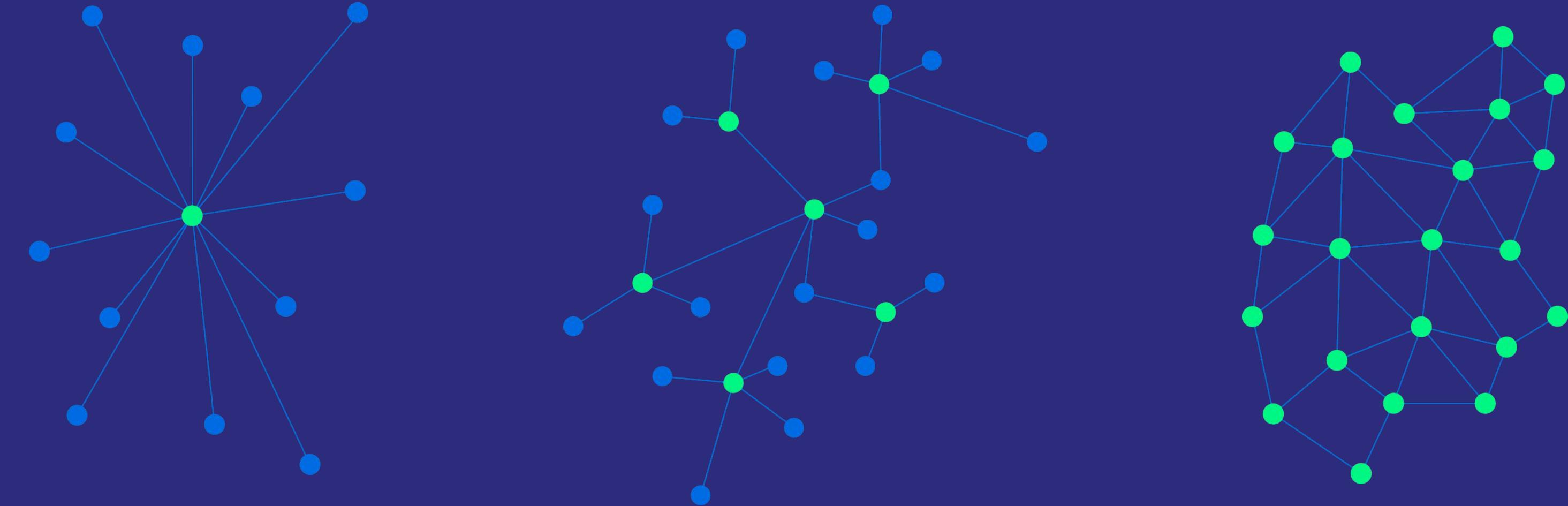
Check <https://probelab.io>





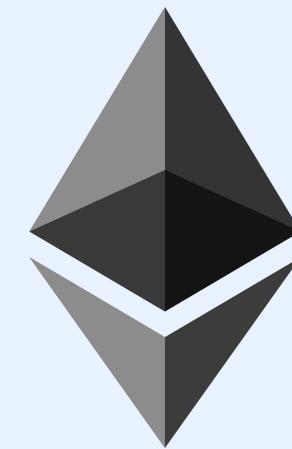
# Benchmarking Rigour

## Why does Web3.0 need ProbeLab



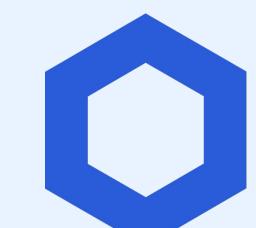
Every blockchain needs a way to transport bits around. **Doing it right can be a game-changer.**

Web3.0 needs to adopt the performance monitoring and benchmarking rigour of Web2.0, if it is to gain wide adoption and flourish.



\$243B

Market cap 10/10



Chainlink



Polkadot.



\$2B



\$1.3B



\$1.3B

MultiversX

\$1B

Algorand™

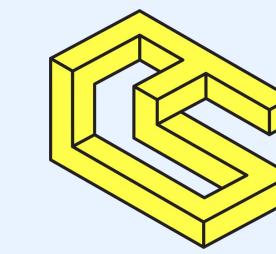
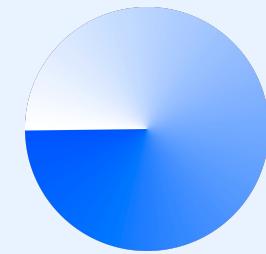
\$962M



\$618M

MINA

\$656M



\$520M

IOTA

OASIS NETWORK

\$429M

CELESTIA

\$336M



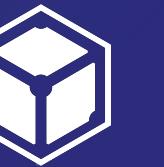
... and more!

hopr



MaidSafe

So far, we've focused mostly on IPFS  
We're now expanding to other IPFS-based networks.



## Fundraising Plan (1/2)

# Network Health Diagnostics

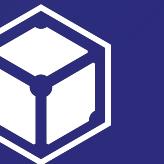
Get a comprehensive health-check of your network within  
4-6 weeks from our team of experts.

4-6  
Weeks

Starting  
from:  
**\$50k**

### What to expect

- Knowledge of where to look in case of problems
- Optimization potential for your stack
- List of metrics to pay attention to
- Initial results for most important metrics
- Initial tooling
- Comprehensive report on the “State of the Network”



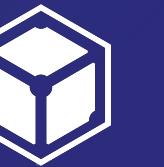
## Fundraising Plan (2/2)

# The Roadmap

- 
- 
- 
- 
- 1. IPNS Performance Measurement and Protocol Improvement
- 2. Gossipsub Performance and Security Guarantees
- 3. libp2p Bandwidth Requirement Baseline (in various networks)
- 4. *<Reserved - TBD by the biggest sponsor>*



We are raising funding from **IPFS-based applications** and **libp2p-based networks** to tackle these milestones.



## Fundraising Plan (2/2)

# The ASK

### Three Sponsorship Tiers

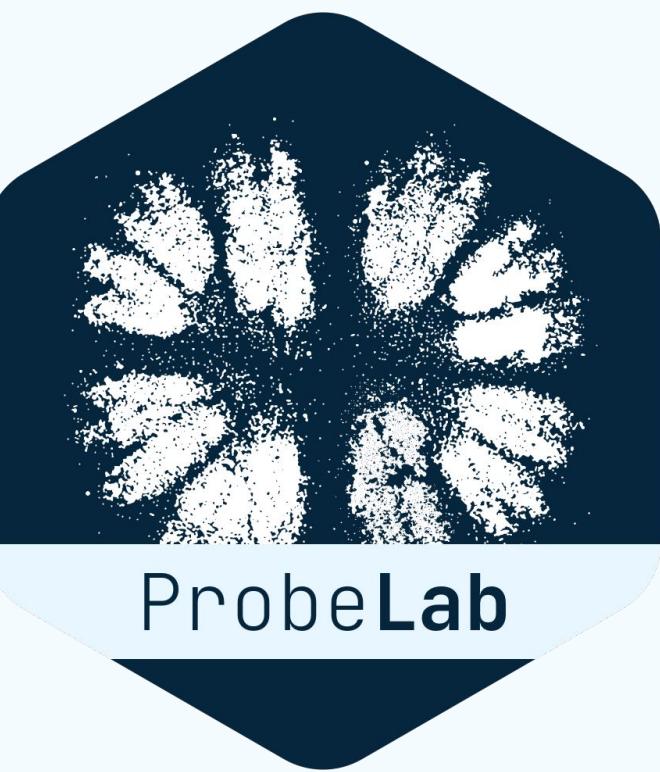
- **Tailor-made:** Hire part of the team to work on your project
- **Champion:** Add item of your choice to the roadmap
- **Guardian:** Vote on stack-ranking roadmap items



Sponsor our work to help cultivate a data-driven protocol design culture.

# ProbeLab

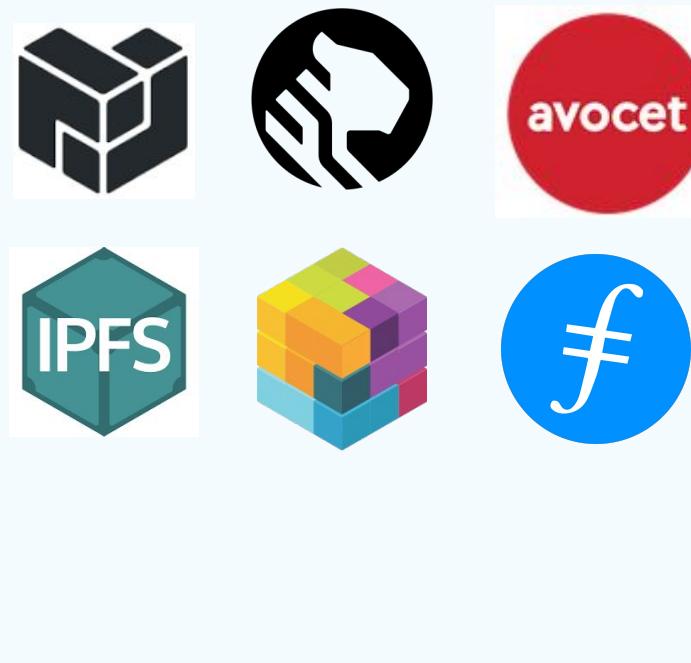
## The Team



**Yiannis Psaras**  
Team Lead  
[Website](#)



**Ian Davis**  
Software Engineer  
[Website](#)

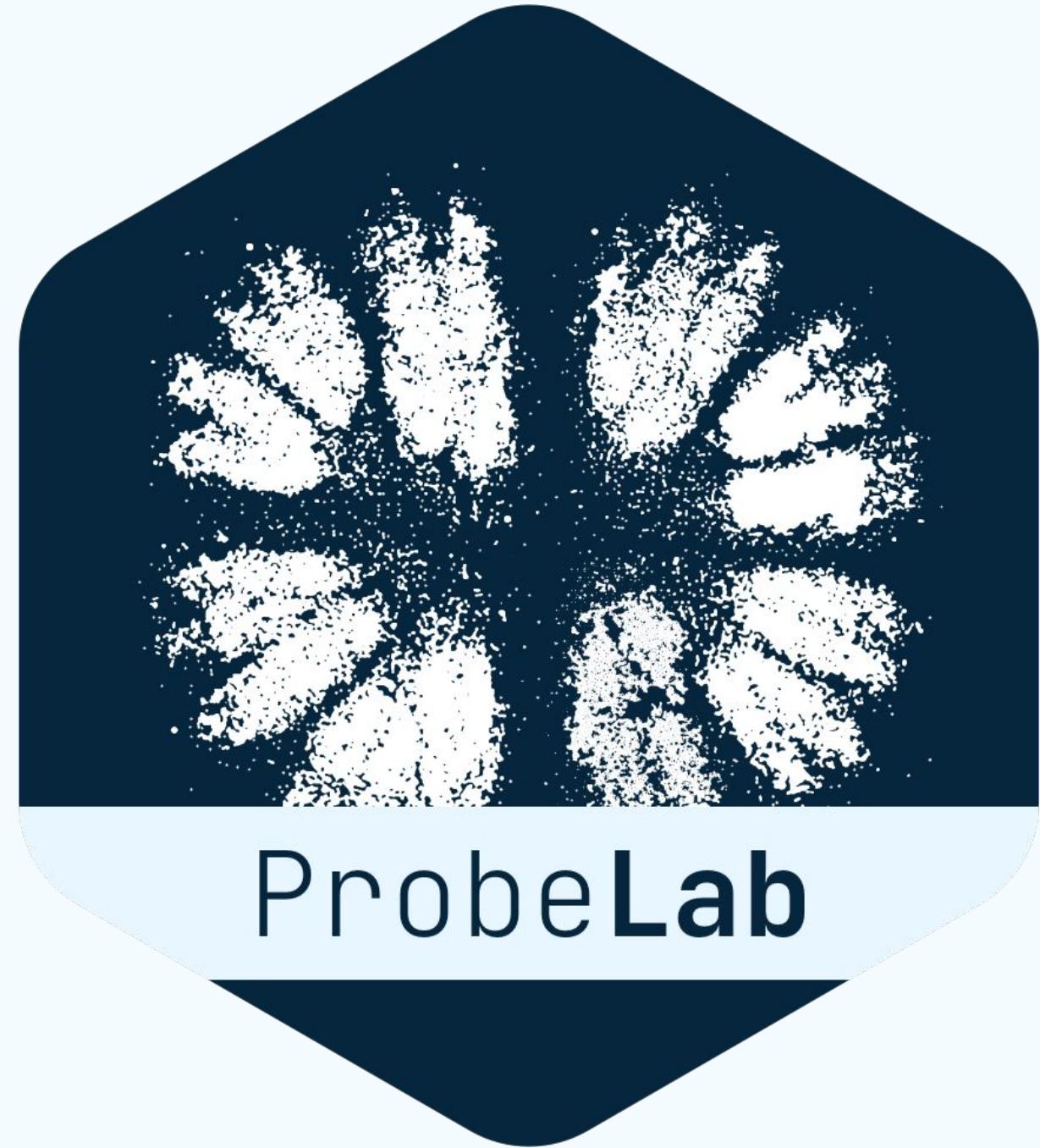


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Software Engineer  
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# Thank you!

Get in touch at:  
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