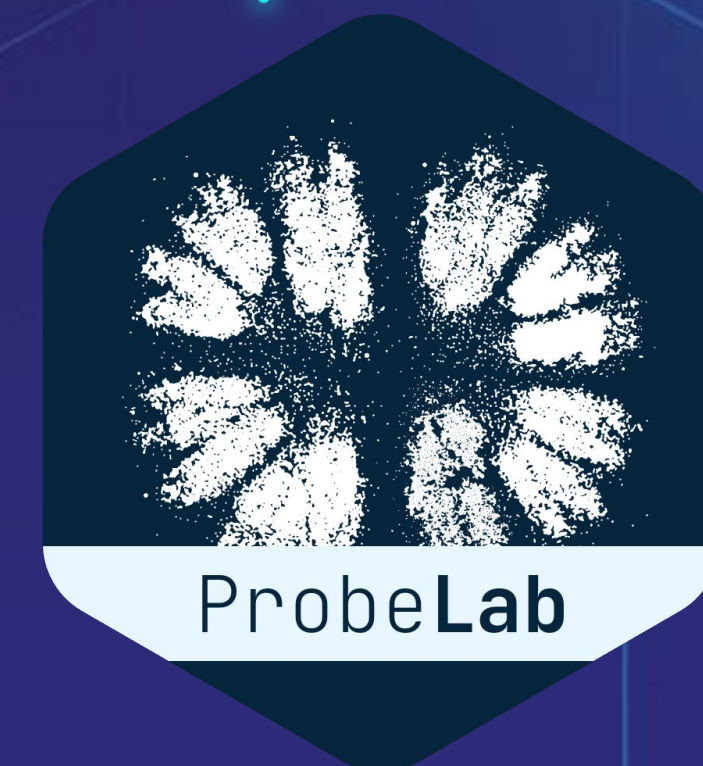


ProbeLab

Metrics for **Data-Driven Protocol Design and Optimization**



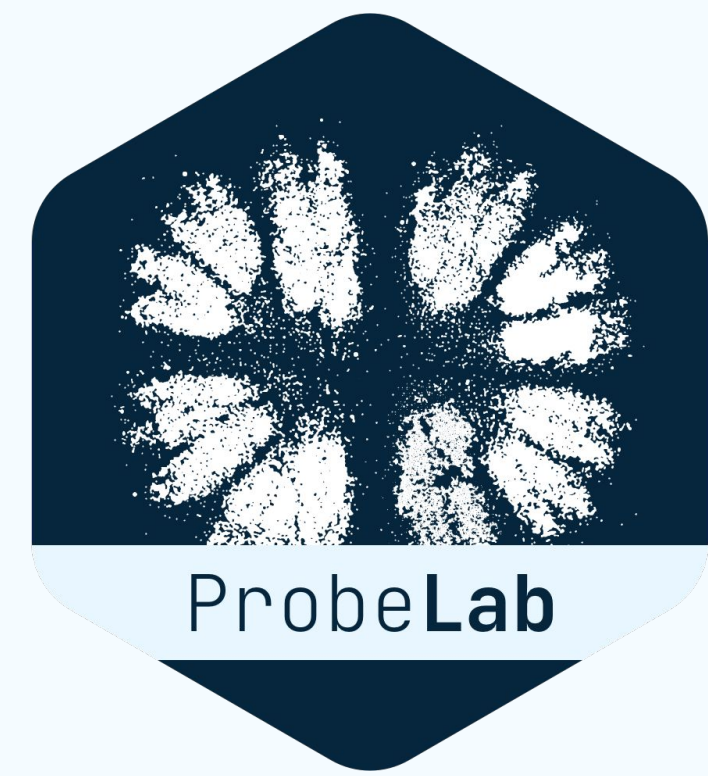


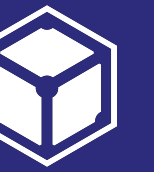
We distinguish signal from noise through *rigorous P2P protocol measurements and benchmarking* in order to
make your P2P network faster.



ProbeLab

Why look deeper





ProbeLab Impact:

We make IPFS networks better and faster

Fetch Latency

Latency Gains

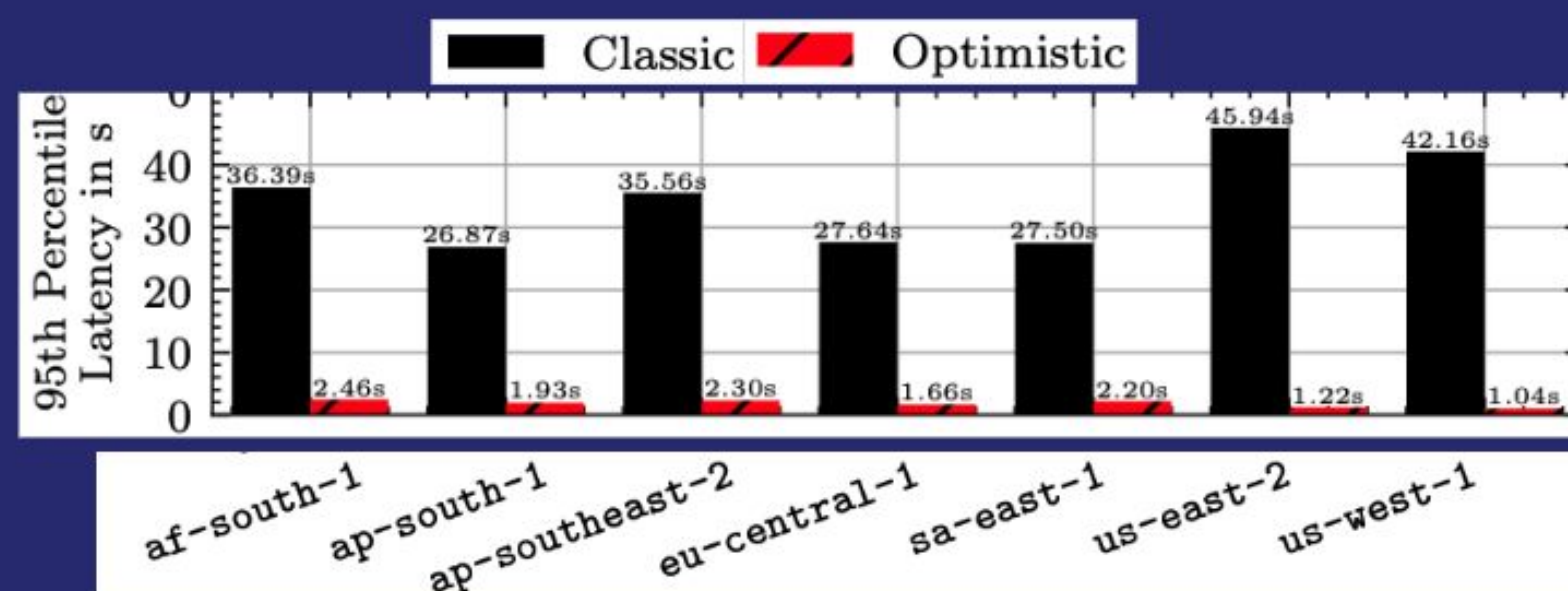
We've identified severe network incidents and **reduced IPFS fetch latency by 50%.**



Publish Latency

Latency Gains

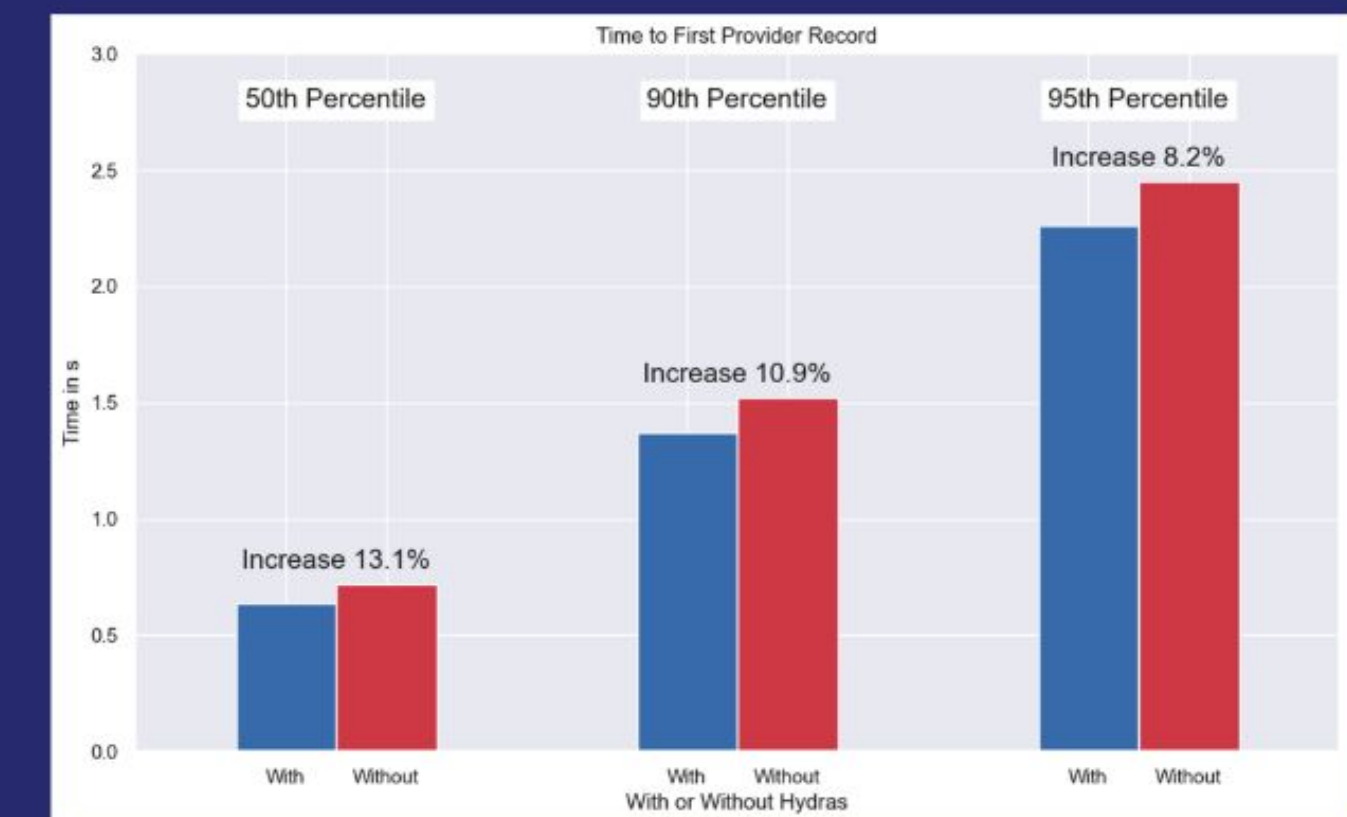
We've built Optimistic Provide to **reduce publication latency** to the IPFS DHT by **20x-40x!**



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.**

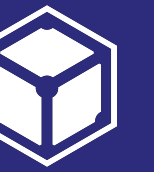


NAT Hole Punching Campaign

libp2p Improvements

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



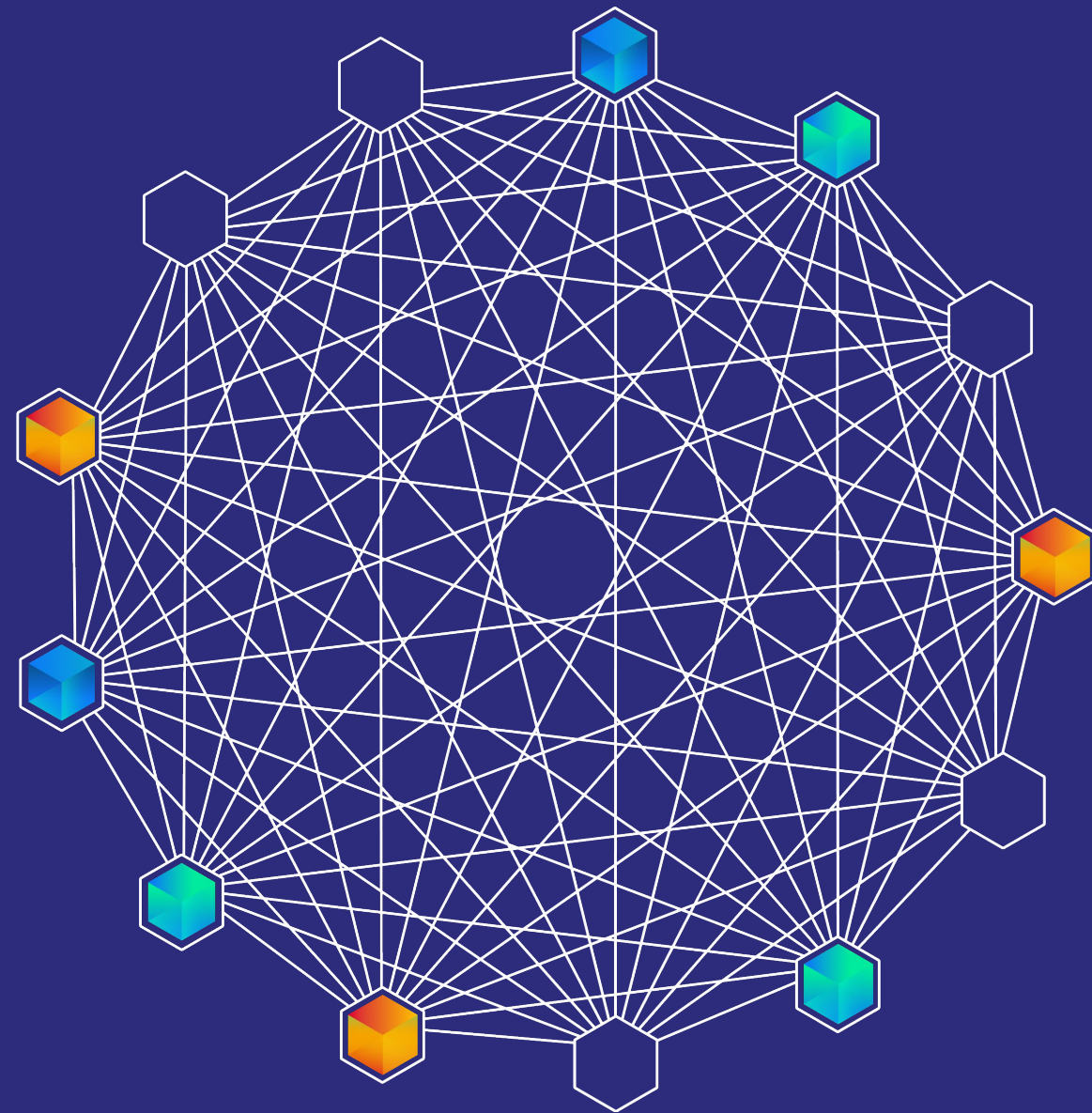


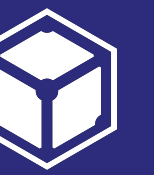
<https://probelab.io>

Continuous Monitoring Infrastructure

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

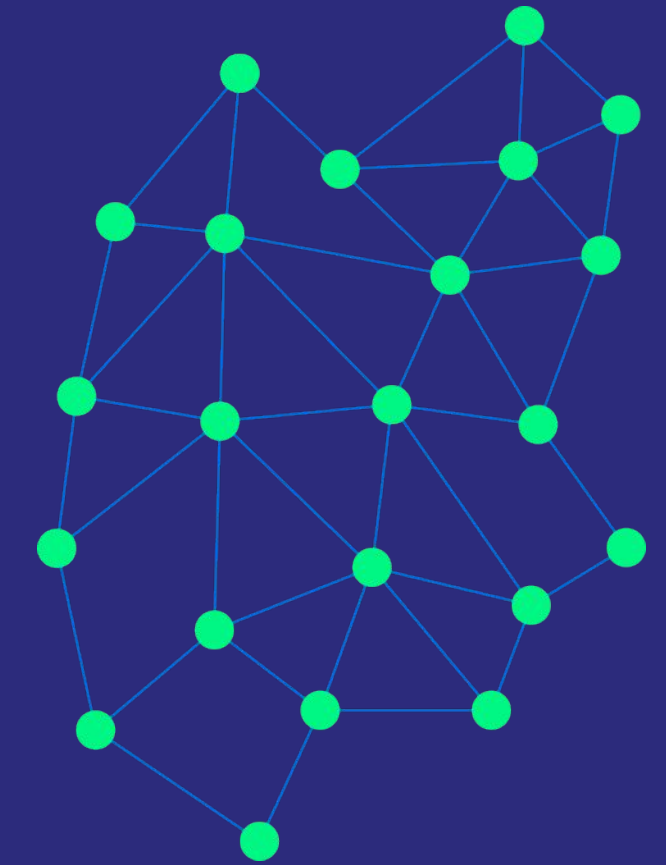
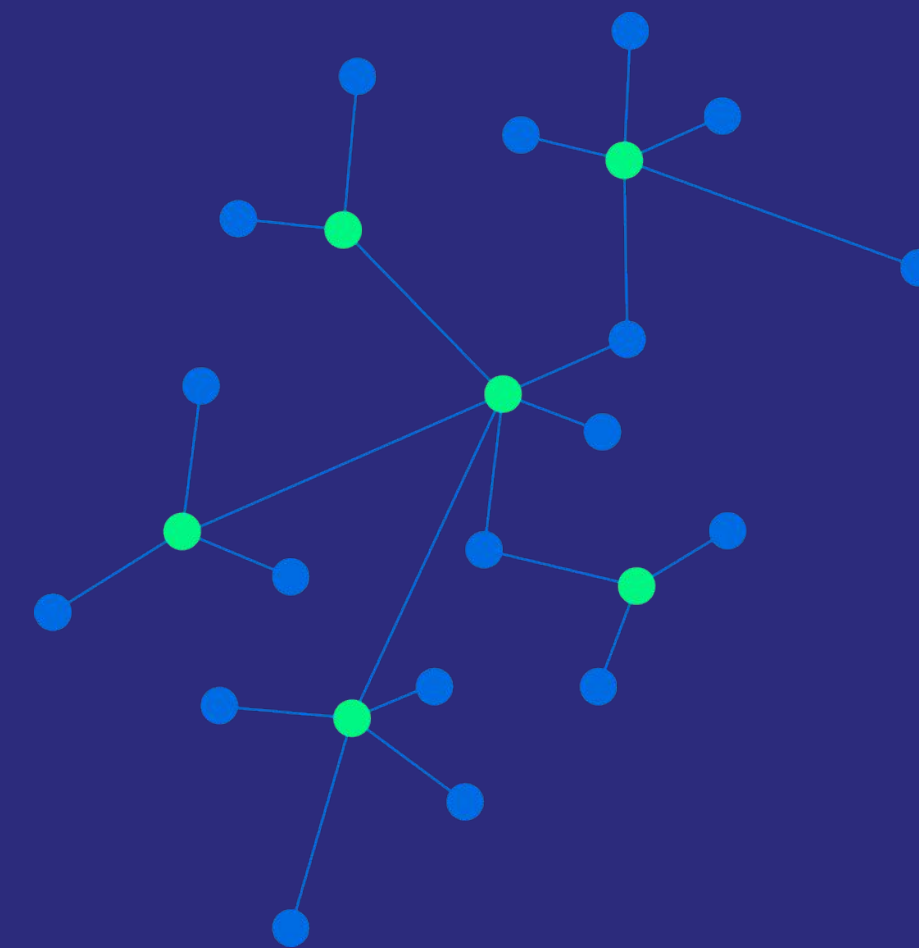
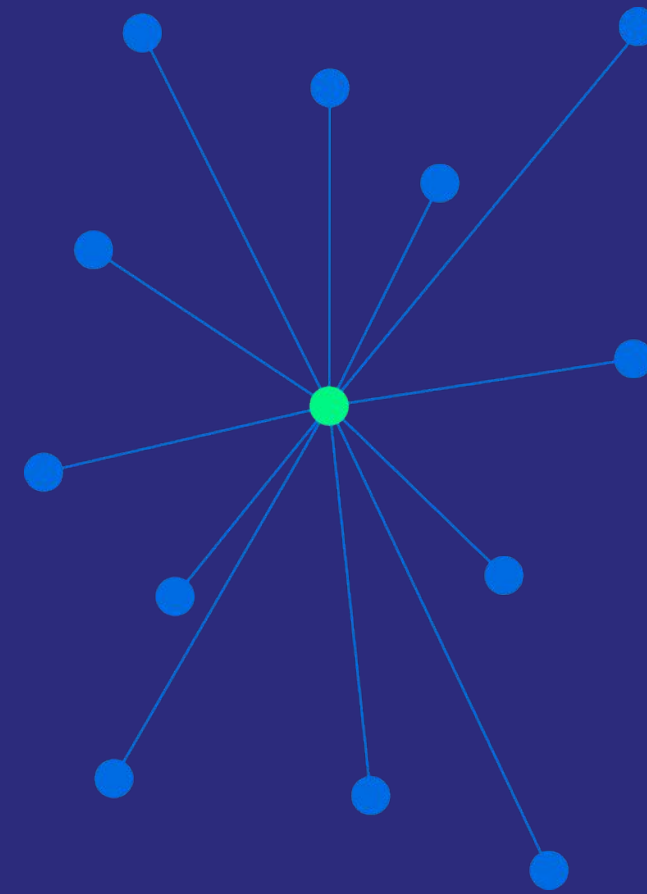
Check <https://probelab.io>





Benchmarking Rigour

Why does Web3.0 need ProbeLab



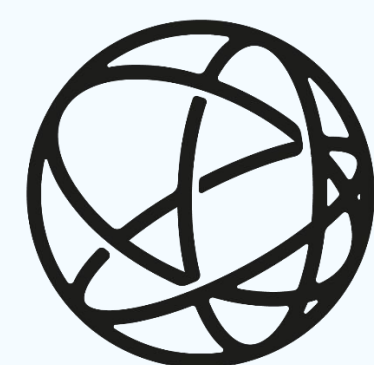
Every blockchain needs a way to transport bits around. **Doing it right can be a game-changer.**

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



ethereum

substrate_



CELESTIA



STARKNET

So far, we've focused mostly on **IPFS**.
We're now expanding to other **libp2p**-based networks.



Fundraising Plan

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

The ASK

Three Sponsorship Tiers

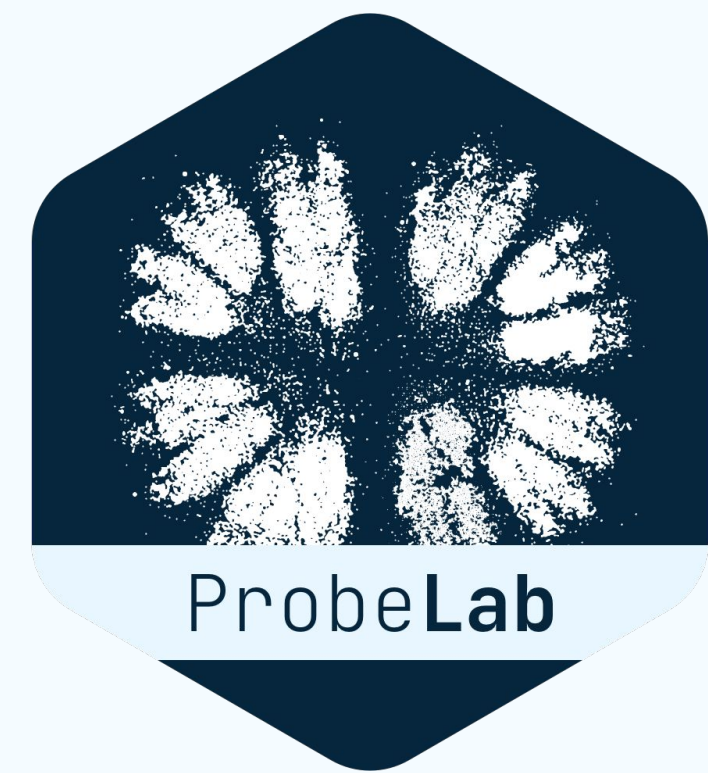
- **Tailor-made:** Hire part of the team to work on your project.
- **Champion:** Add item of your choice to the roadmap
- **Guardian:** Vote on stack-ranking roadmap items



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

ProbeLab

The Team



Yiannis Psaras
Team Lead
[Website](#)



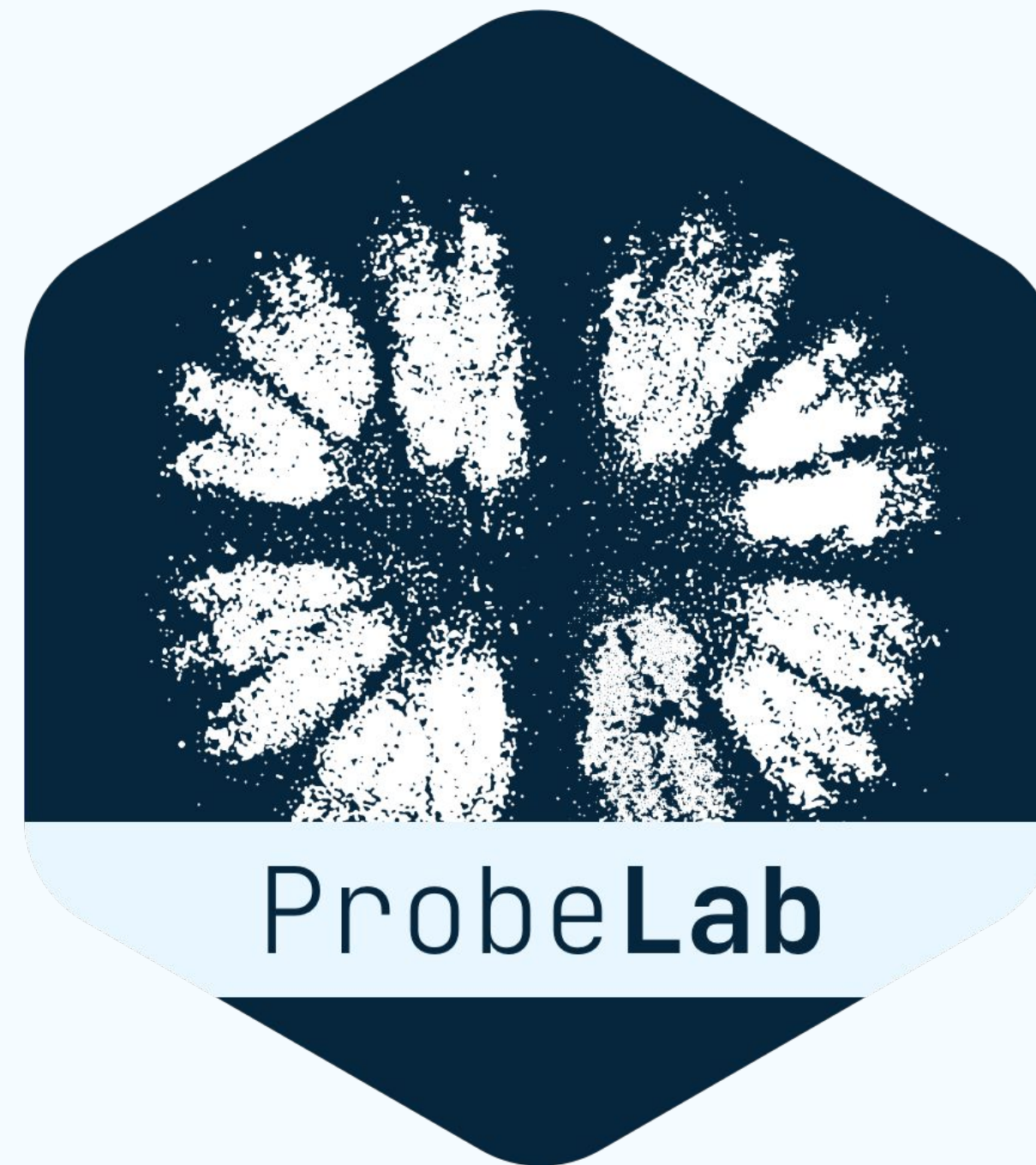
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Thank you!

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