

Protocol Labs Research



Protocol Labs Research

Sílvia Bessa

Research Program Manager

background in computer vision, ML
research & bioengineering

*"the real decentralized AI is the
friends we made along the way"*





Protocol
Labs

We drive **breakthroughs** in
computing technology to push
humanity **forward**.



A distributed protocol that
makes the web work
peer-to-peer

- Fast and flexible retrieval
(gateways, local nodes,
browsers)



Crypto powered **decentralized**
storage network

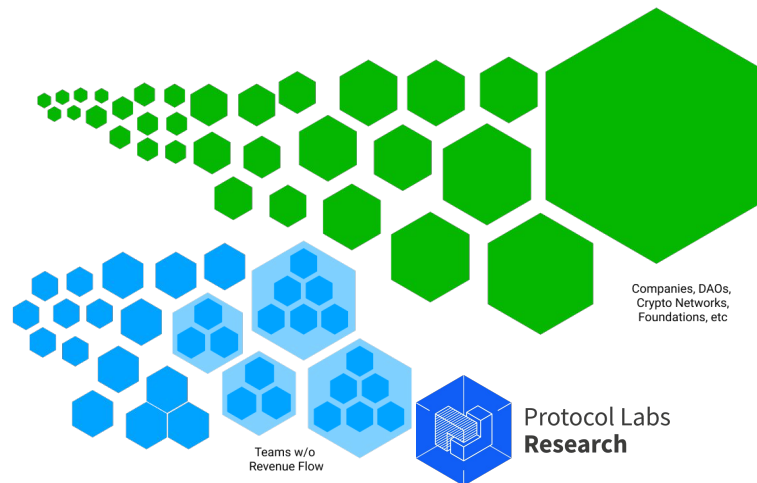
- Persistent on-chain
verifiability

- Science
- Led by Academia
- Maximizing:
of top papers
(recognition)
- Publish or perish

We're missing effective
coordination systems to
make this part happen

- Technology
- Led by Corps
- Maximizing:
\$\$\$
(utility to mkt)
- Pivot to whatever
the mkt values most

Repeatable innovation: from the **earliest**
research ideation to deploying **end-user**
products, a full R&D pipeline.



We question how science and technology could work better and what we wish they would do.

Open, collaborative and **high-impact research** that pushes the boundaries of what computing can do for humanity.

Drive internal projects directly, support external research.



Protocol Labs
Research

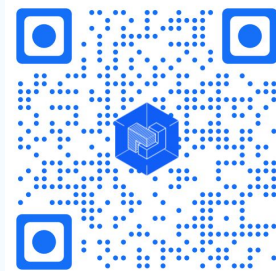
We explore the future of **decentralization** and examine the **infrastructure** limiting what you can do with technology.

We translate
theory into
reality

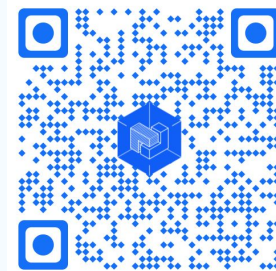


Align world-class
Researchers,
Academics &
Funders

We build tools
and run
experiments to
accelerate
research



Research Grants and RFPs



Join the network



Events & Research Seminars



/lodestar-network-goods



@protoresearch



@ProtocolLabs

We question how science
and technology could work
better

Fast and Reliable

The network runs the jobs where the data is already stored

Simple and familiar

Use the tools you already know and love (Docker, GNU, Python, R, Matlab, WASM)

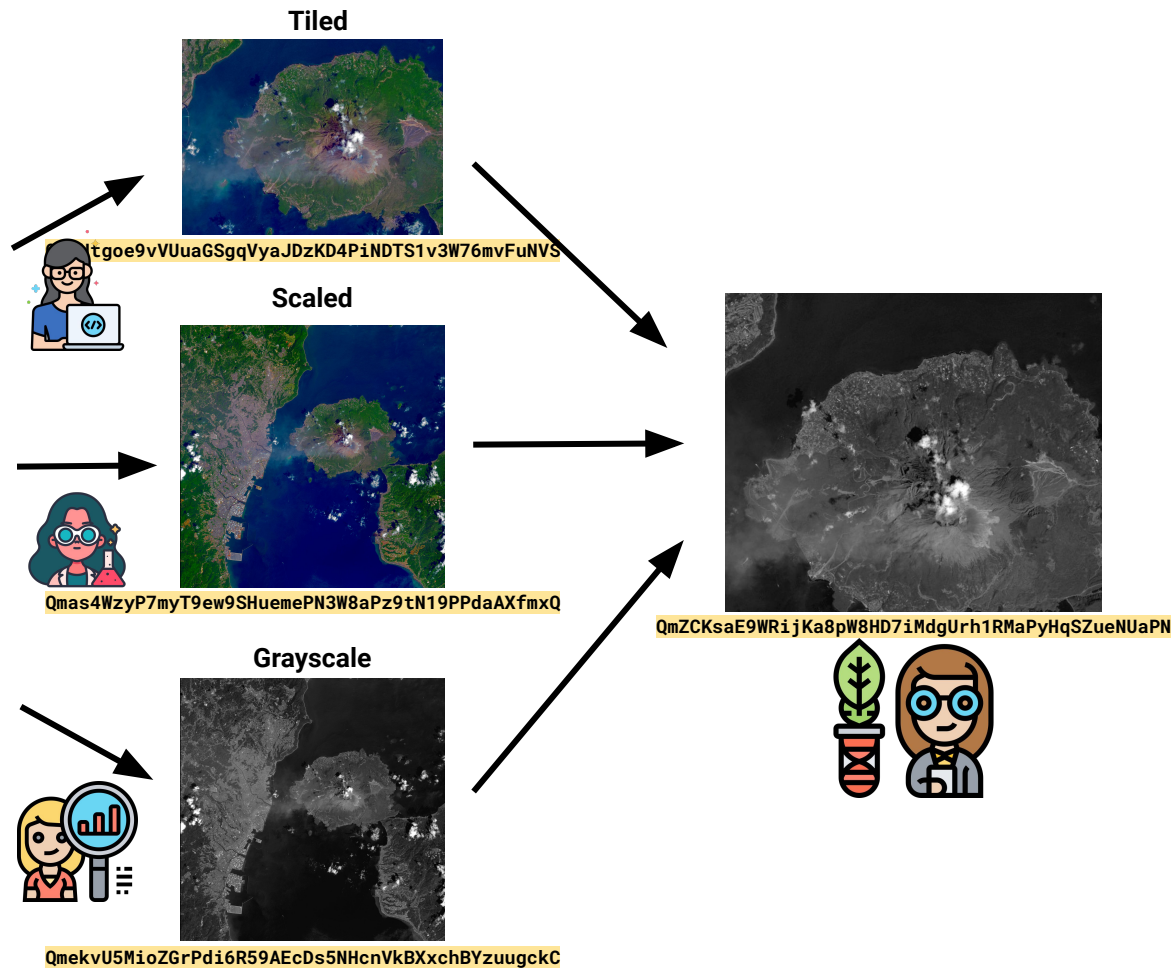
Collaborative

All content can be shared using the globally distributed IPFS network



An architecture to that enables
distributed computation on
data stored on IPFS /Filecoin.

Collaborative



Data Processing and Collaboration Made Easy



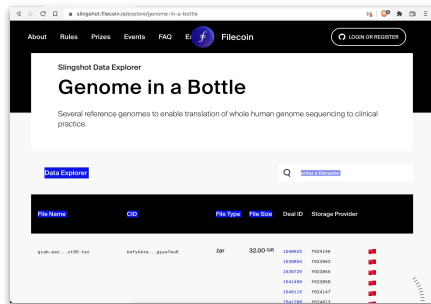
Researcher

My latest research is groundbreaking and will change the world!

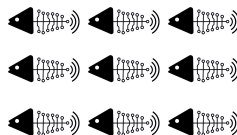
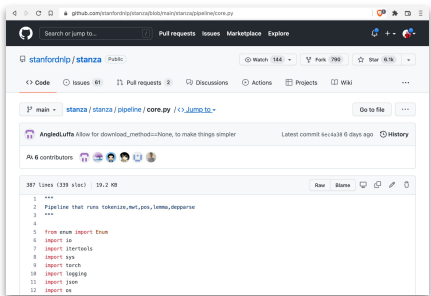
Now to share my work with the the community ...



IPFS / Filecoin



Data Processing Code



Bacalhau Cluster



Refined Data



Reproducible Data Pipeline

Science reproducibility



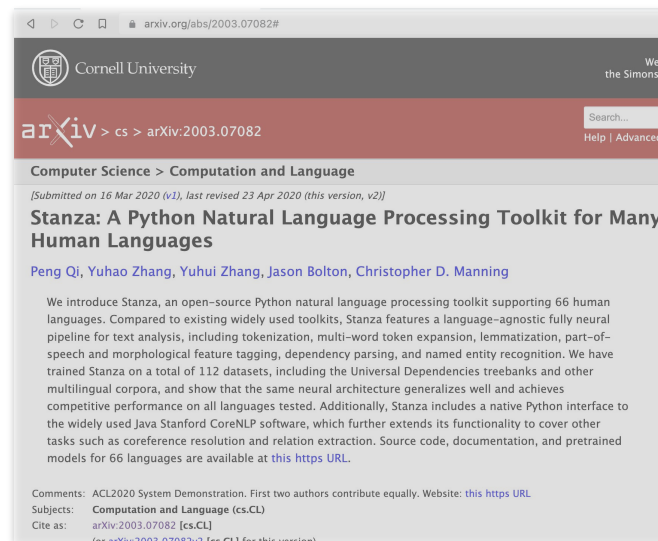
Collaborator

Can I fork and build on it for my research?



Researcher

Yes! It's all publicly available for you now!



Refined Data



Reproducible Data Pipeline


What can you do?



Wes Floyd

wesley.floyd@protocol.ai

 `filecoin-project/bacalhau`

 `filecoinproject`

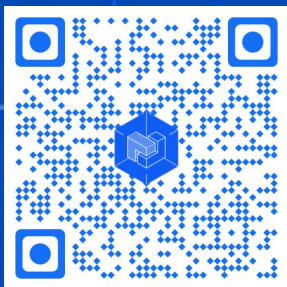
Scientific
Community

Tell us about your
use case and
workloads!

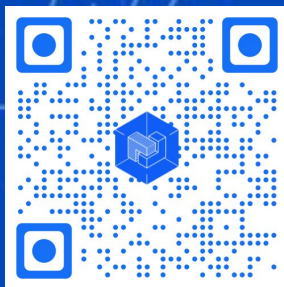
#testnet

Test and run a
bacalhau node!

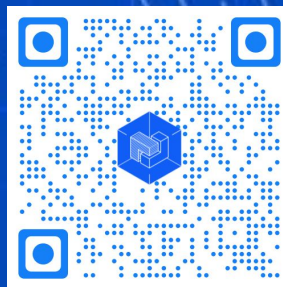
<https://docs.bacalhau.org>



Join the network



Grants & RFP



Public Discord

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