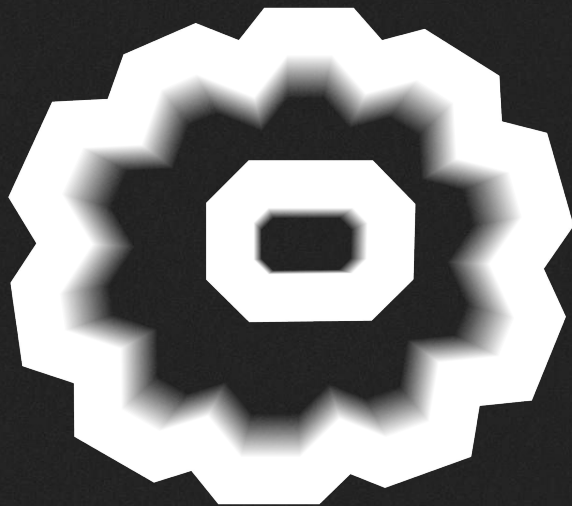
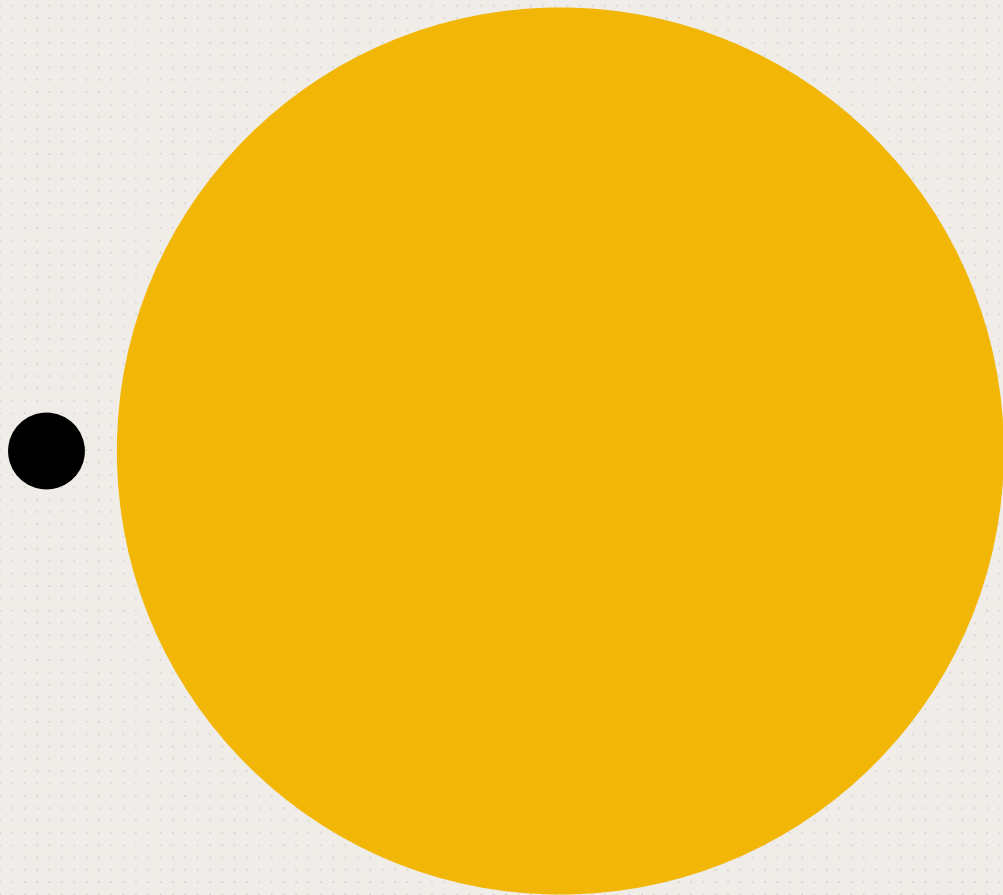


Collaboration and Trust

Federated AI with Flower



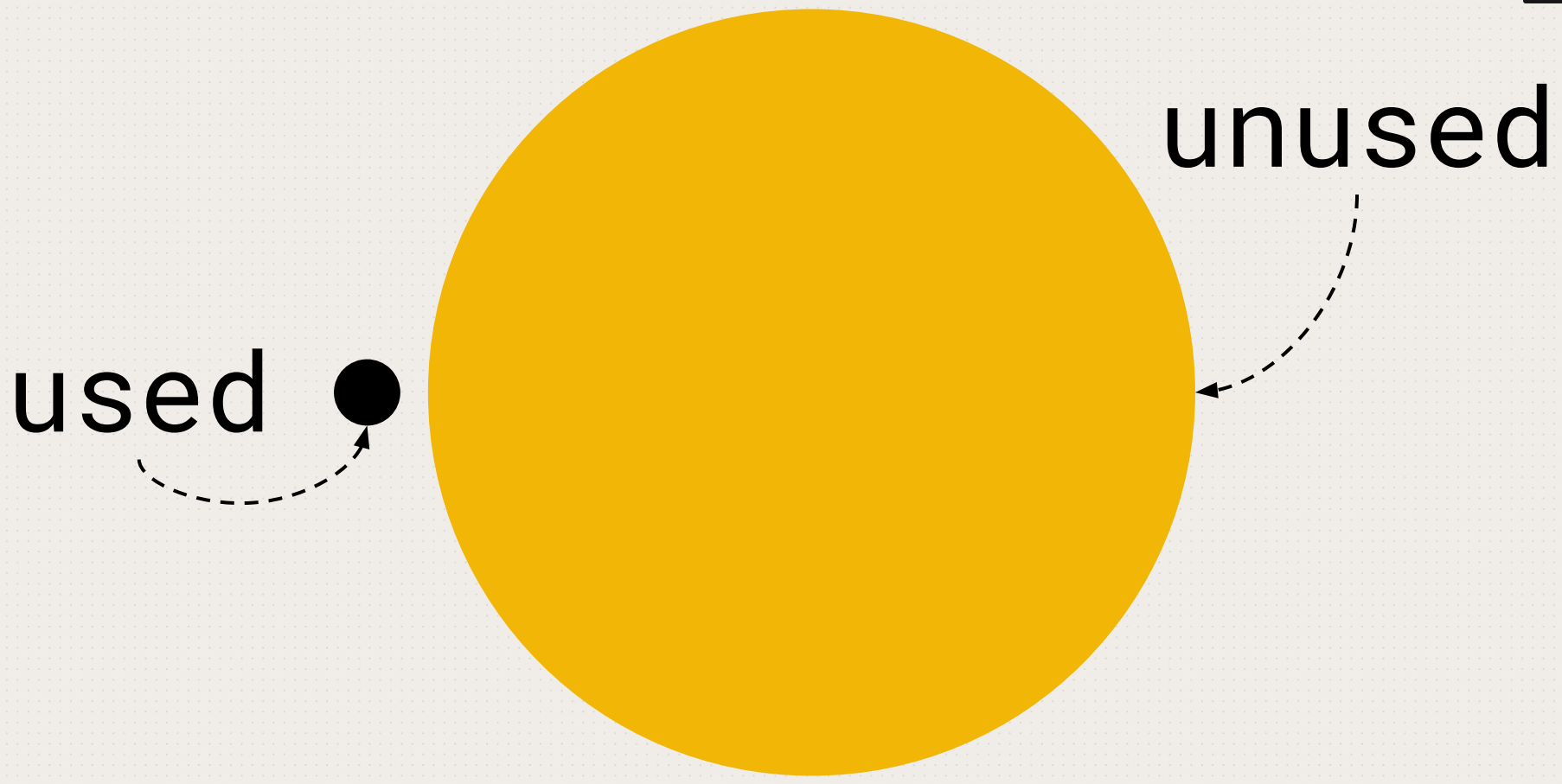


used ●





used ●

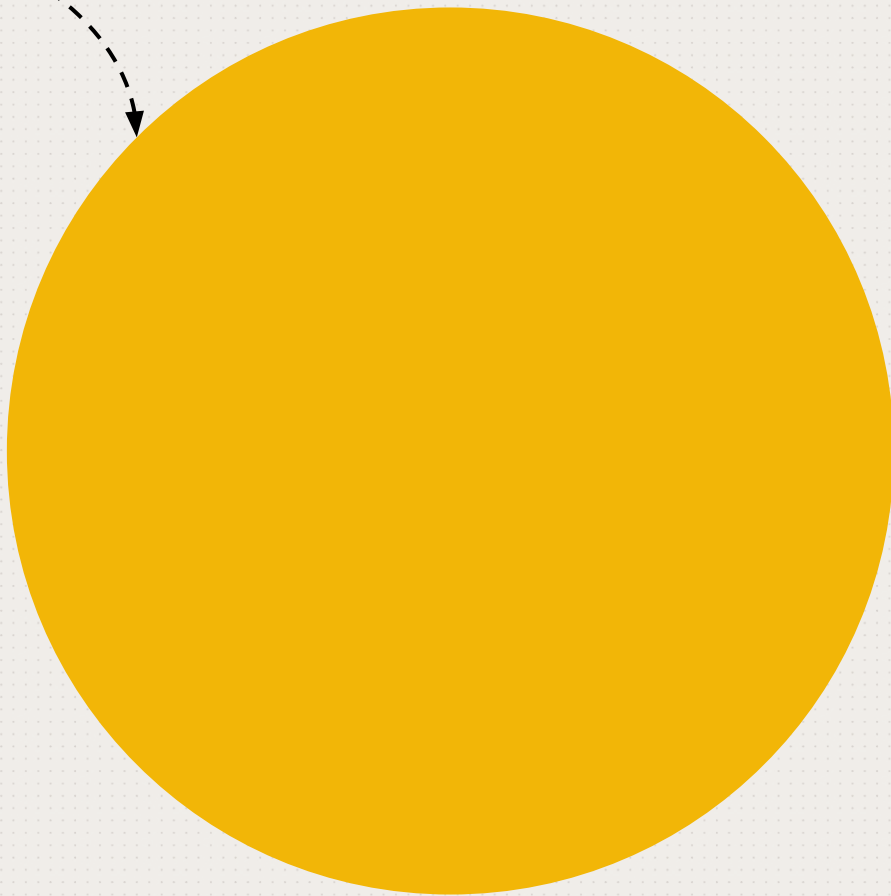
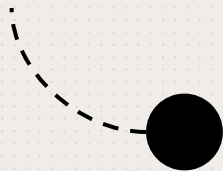
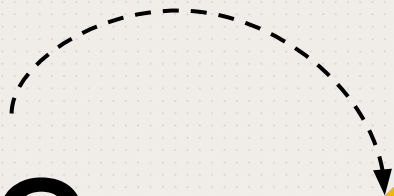


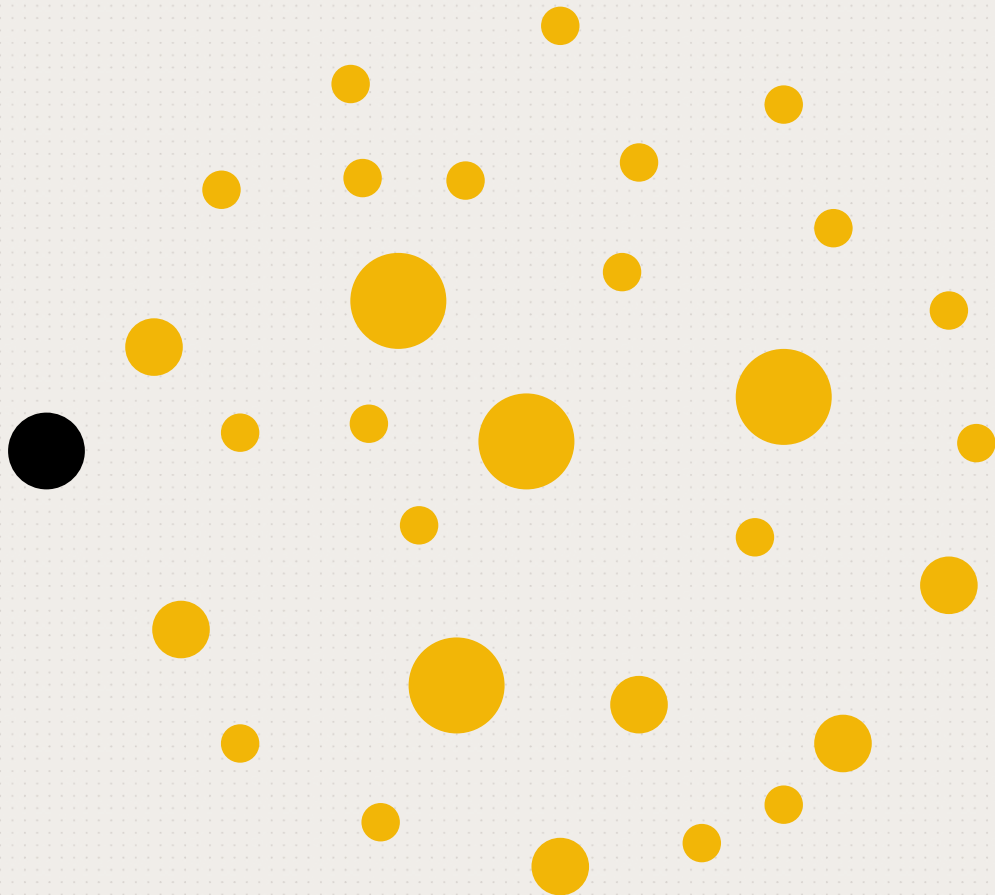
A diagram illustrating disk space usage. A large yellow circle represents the disk. On the left side of the circle, there is a small black dot. To the left of this dot is the word "used". A dashed curved arrow points from the word "used" to the black dot. On the right side of the circle, there is the word "unused". A dashed curved arrow points from the word "unused" to the right edge of the yellow circle.

unused



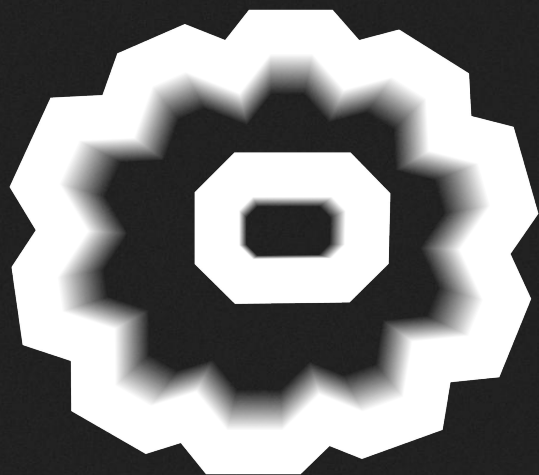
133x







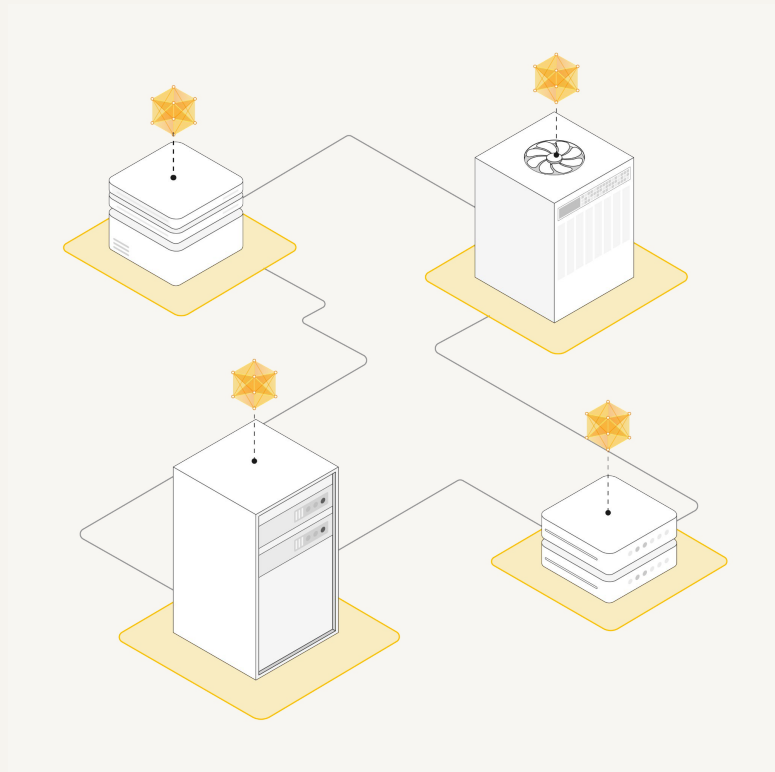
From Isolation to Collaboration





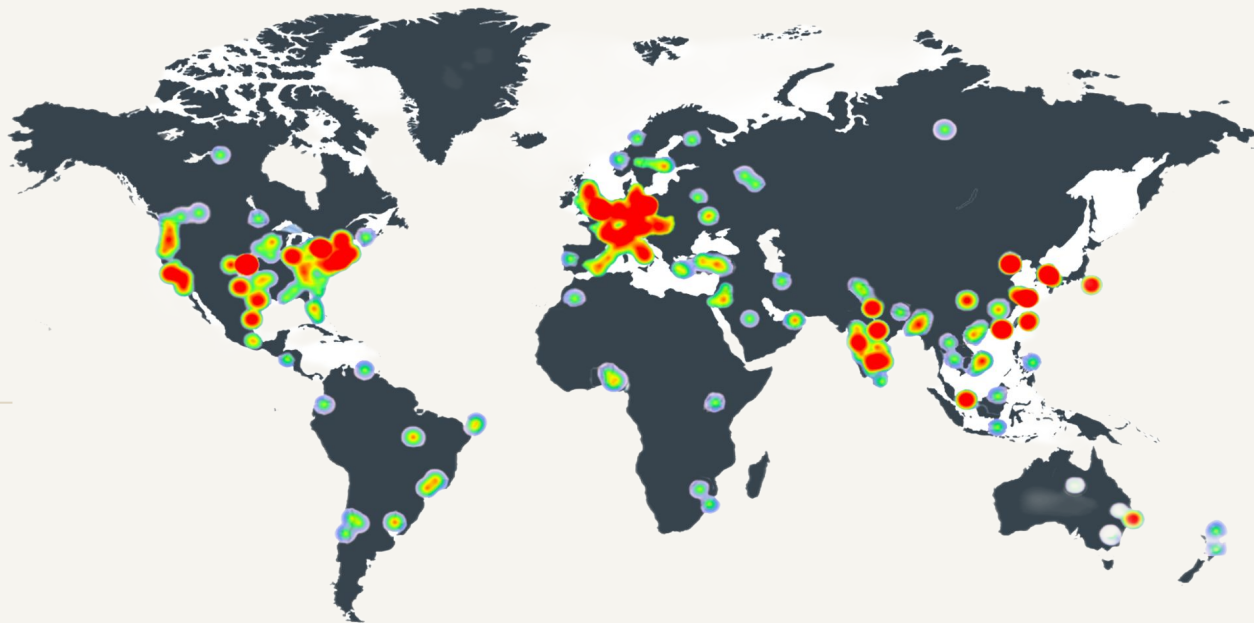
Flower

Open Source (Apache 2.0)
framework for federated AI





AI Devs love Flower



Developers

7.000+

Stars

6.800+

Contributors

180+

Dependents

2.500+



AI Devs love Flower



Developers

7.000+

Stars

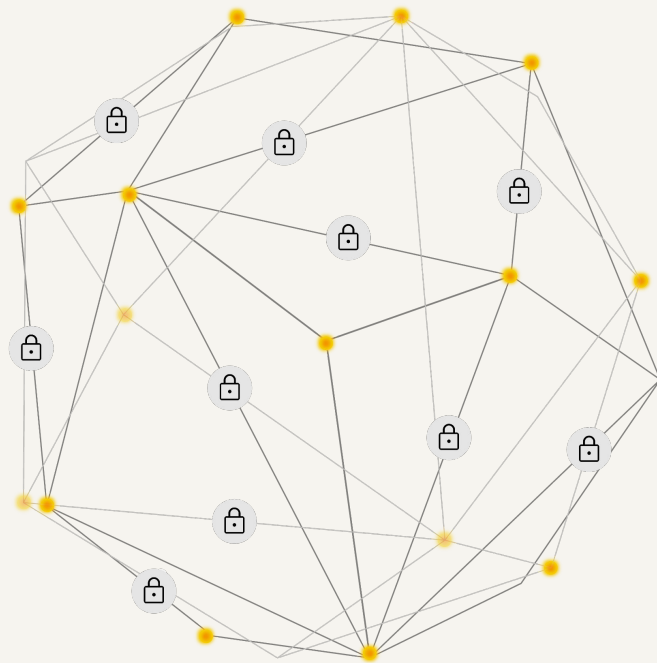
6.800+

Contributors

180+

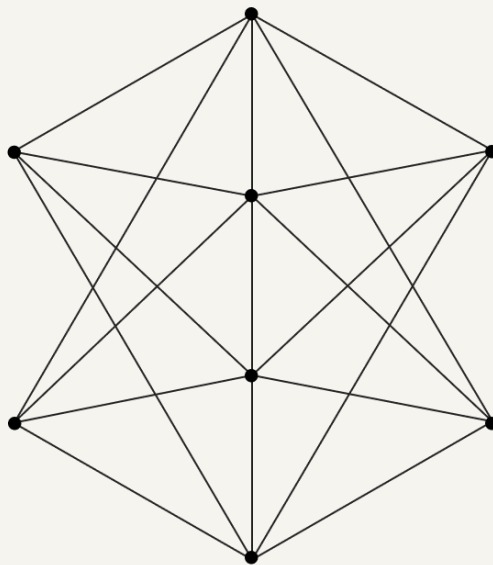
Dependents

2.500+



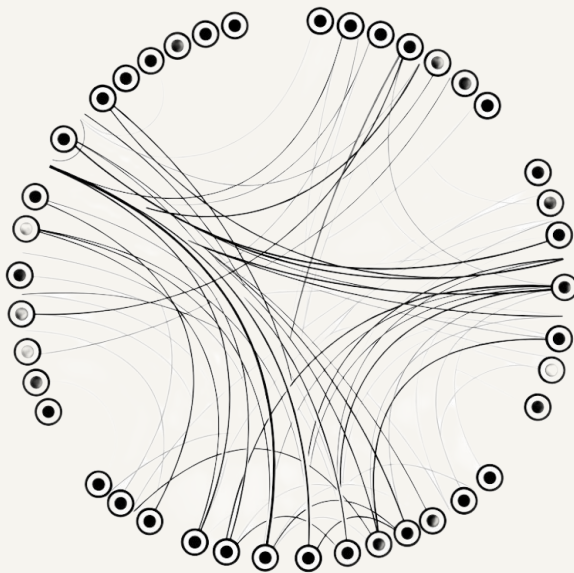
Next-Gen AI Platform

Building Block 1



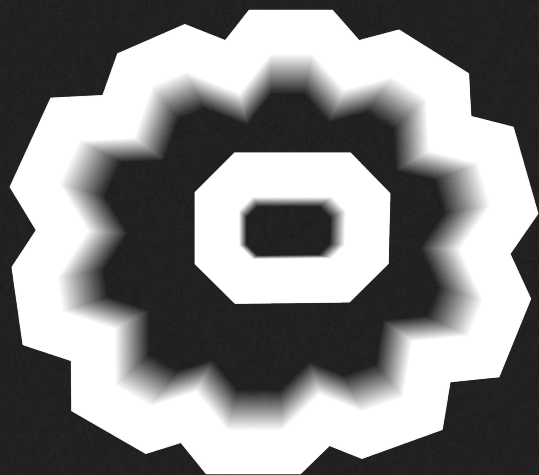
Frontier Training Pipeline

Building Block 2



Collaborative AI Agent

Building Block 3

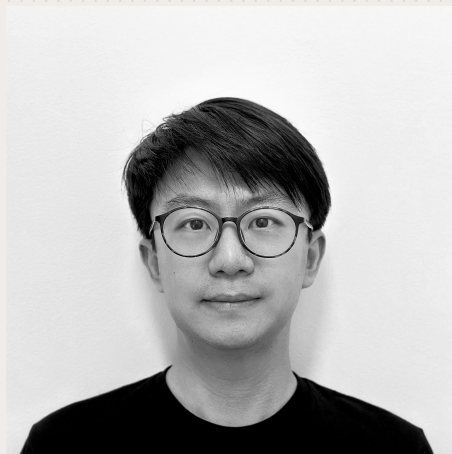


Flower Hub

From Federated Apps to a Collaborative AI Ecosystem



Core Developers



Yan Gao

Research Scientist



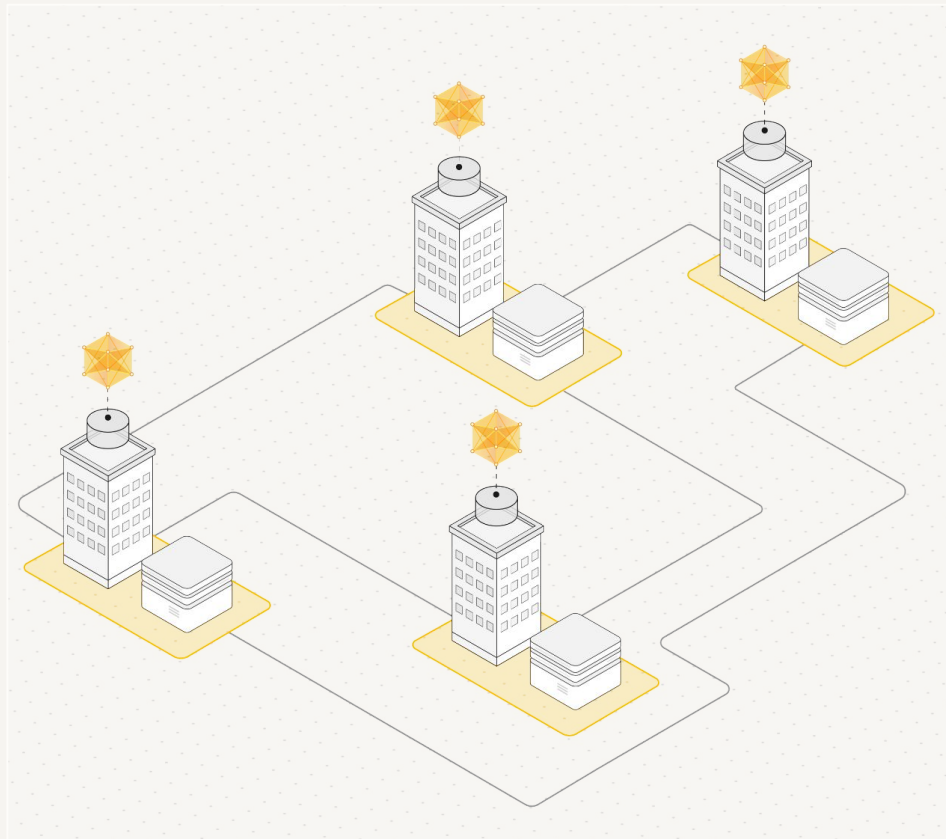
Mohammad Naseri

Research Scientist



Collaborative AI

A Rapidly Evolving Frontier

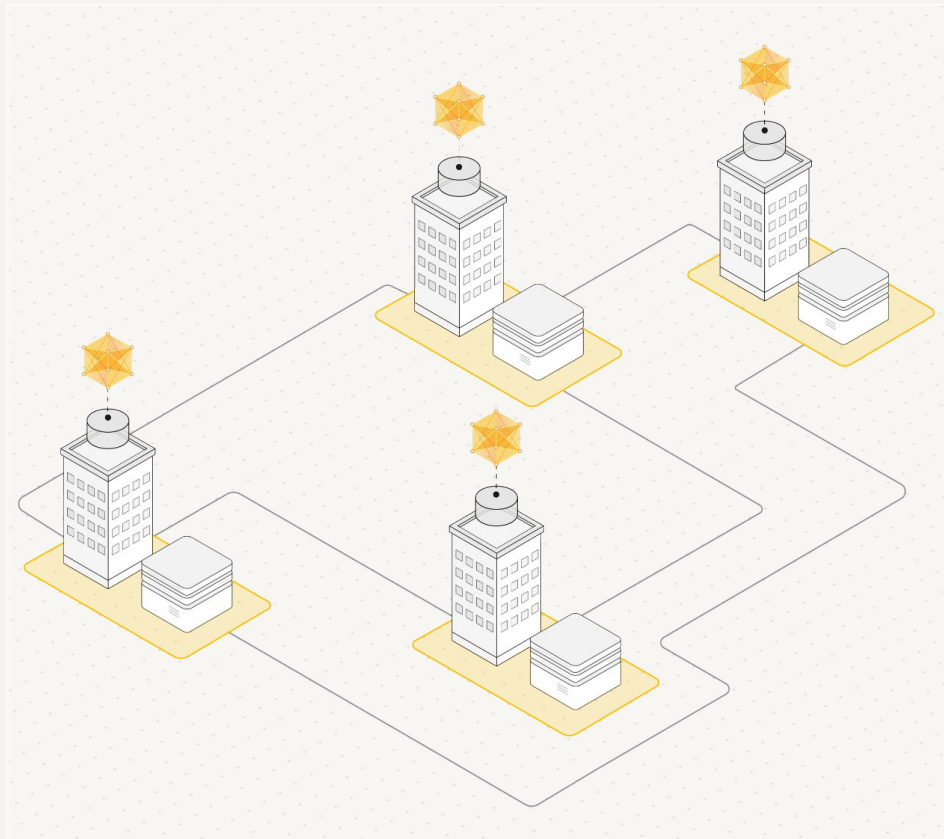




Collaborative AI

Challenge 1

Applications tightly coupled
with infrastructure

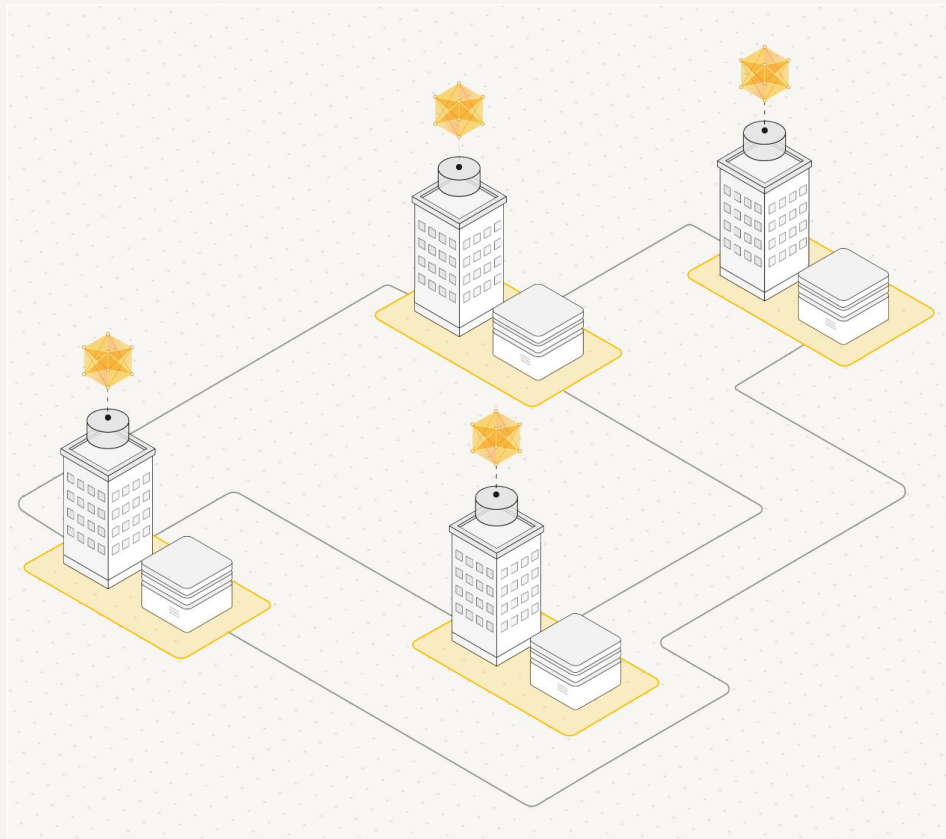




Collaborative AI

Challenge 2

Reproducibility across teams is challenging

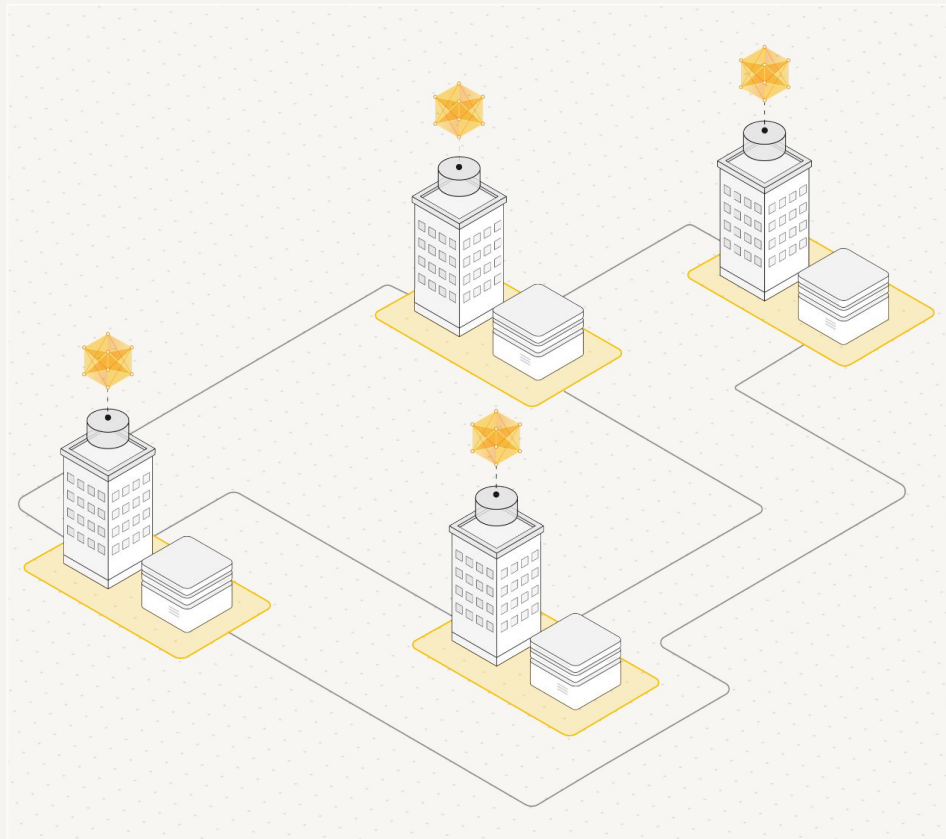




Collaborative AI

Challenge 3

Difficult sharing, reusing and building





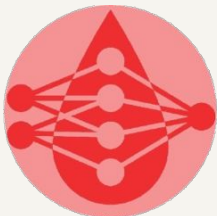
Flower Hub

==

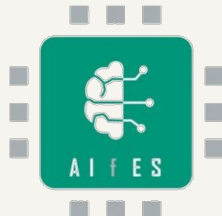
App Hub for Collaborative AI



Flower Hub Launched with Our Partners



BloodCounts!



Fraunhofer



mozilla.ai



OWKIN

Sony AI



SYNTHEMA



UNIVERSITY OF
CAMBRIDGE



THE UNIVERSITY OF
MELBOURNE

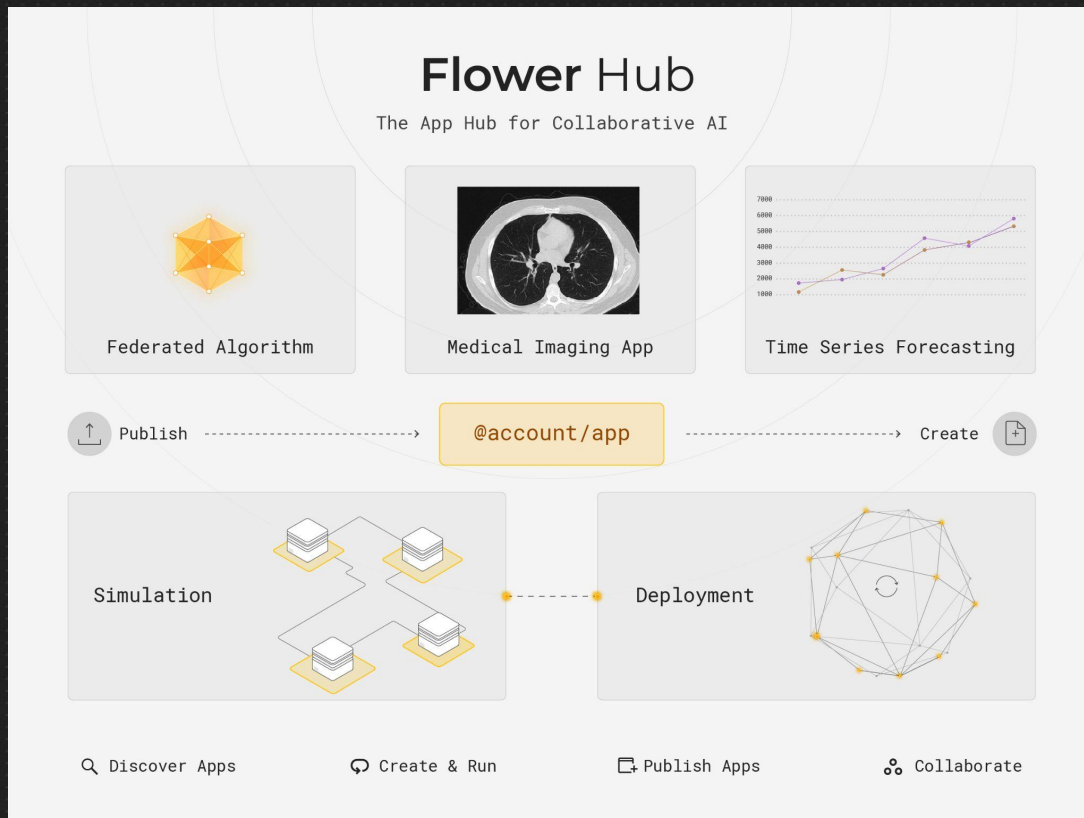


Vector Institute



Feature 1

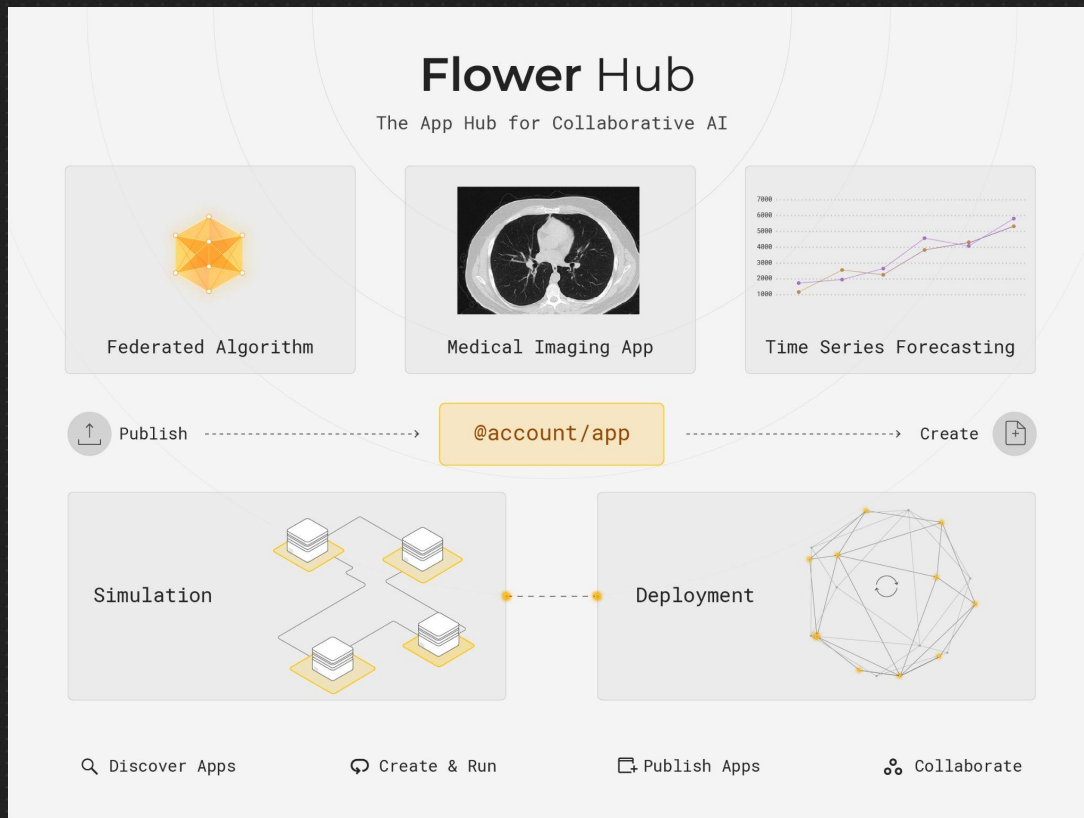
Decouple **infrastructure**
and **application** logic





Feature 2

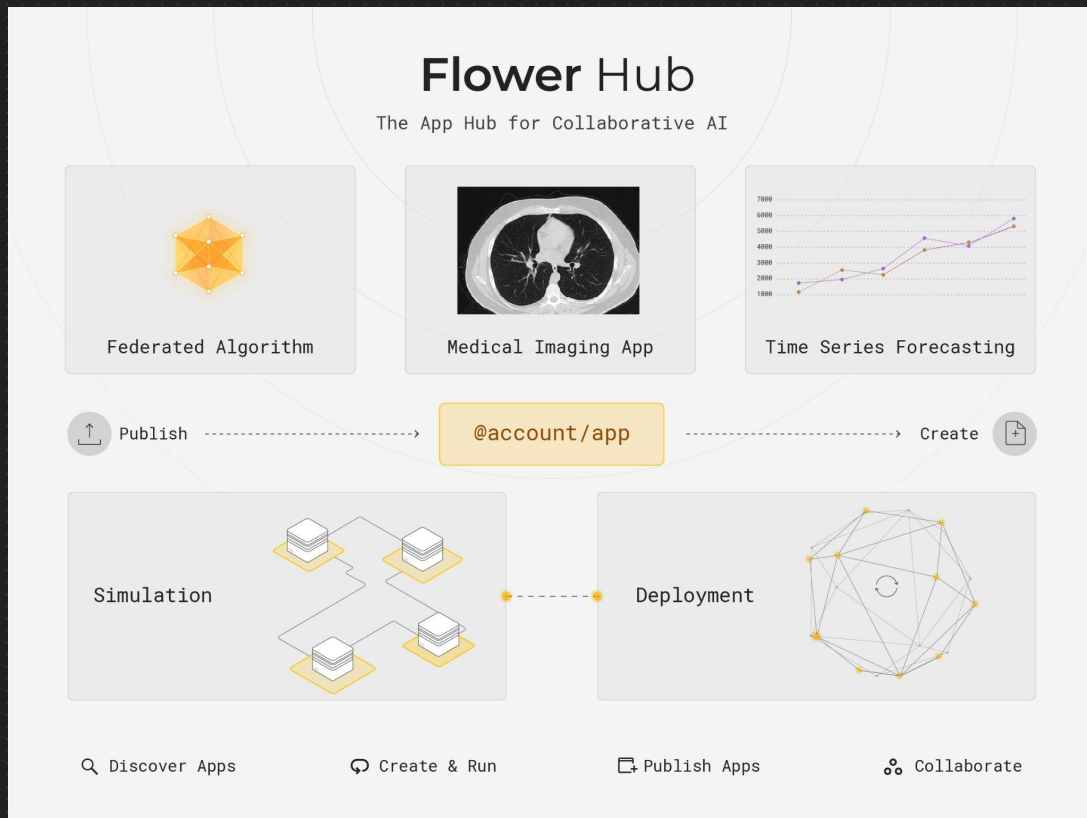
Smooth switch between
simulation and
deployment





Feature 3

Easy **sharing**, **publishing**,
and **execution**





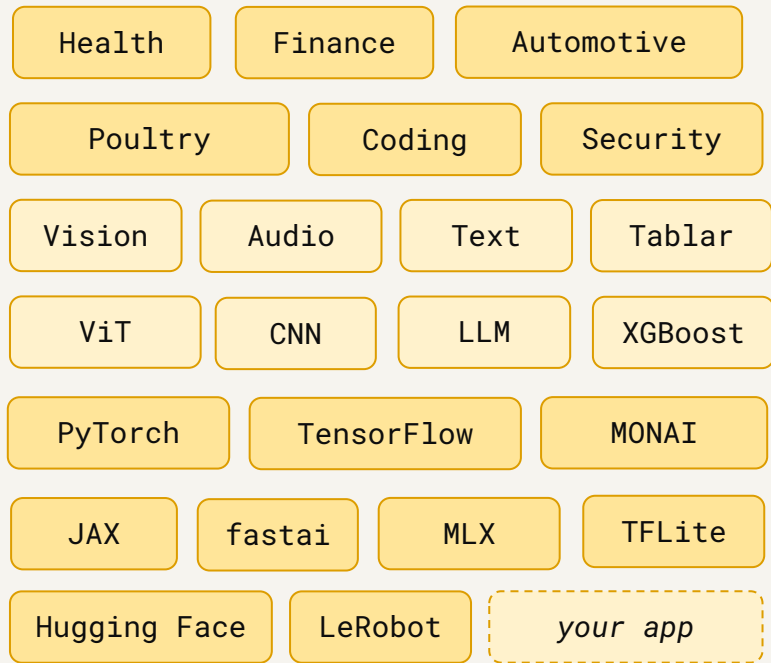
120+

Apps on Flower Hub



Hub App Diversity

- 30+ ML tasks
- 10+ ML frameworks
- Covers major federated AI research topics





What's Next?



Flower Hub Is Evolving



Flower Hub Is Evolving: Stronger App Compatibility and Trust



Simple App
Sharing



Production-Ready
Ecosystem

Discoverable

Reusable

Safe to Run



2 Important Steps for a Growing Flower Hub

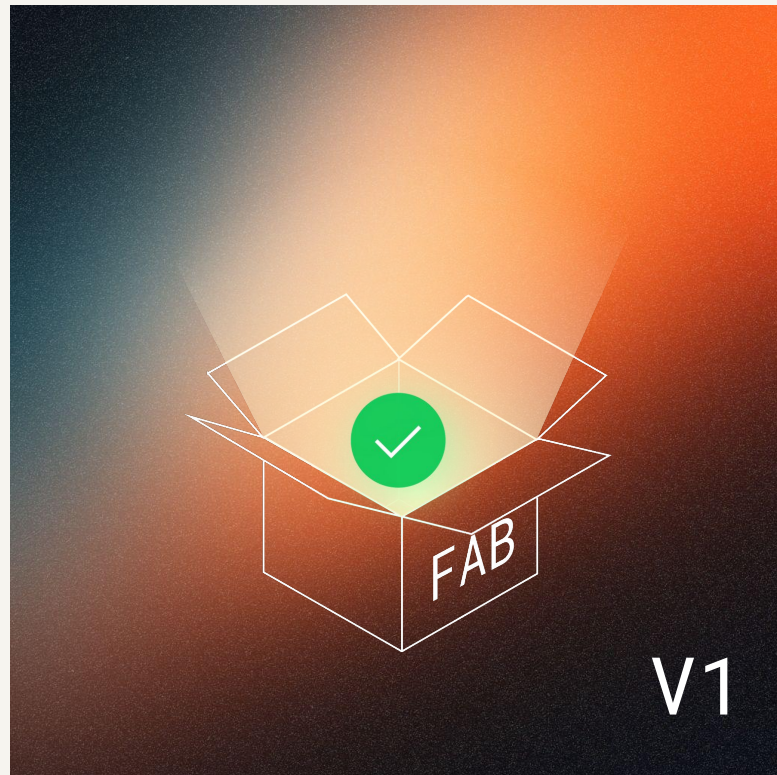
The first stable FAB format

A decentralized trust model for published apps



FAB Format is now stable

A stable foundation for Flower Hub





A Stable App Format for a Growing Ecosystem



Compatibility

Apps keep a clear build and validation contract as Flower evolves



Evolution

Apps gain new capabilities over time



Co-existence

Old and new apps can coexist with backward compatibility



Declaring the FAB Format Version

This defines which app build
and validation rules apply.

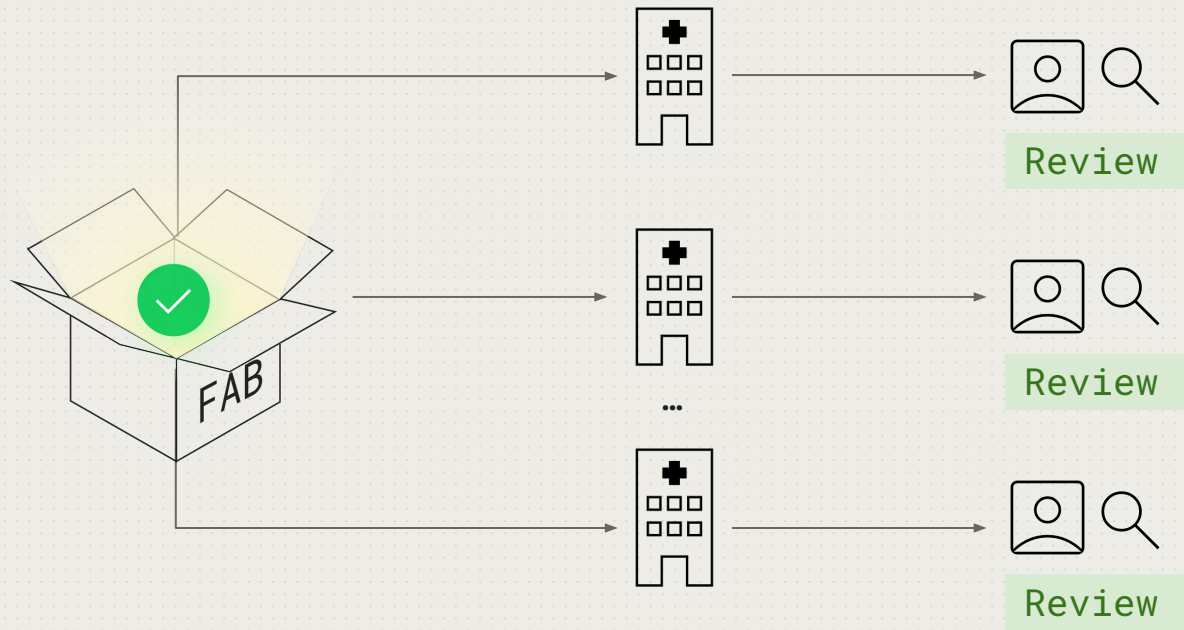


```
[tool.flwr.app]  
publisher = "flwrlabs"  
fab-format-version = 1
```



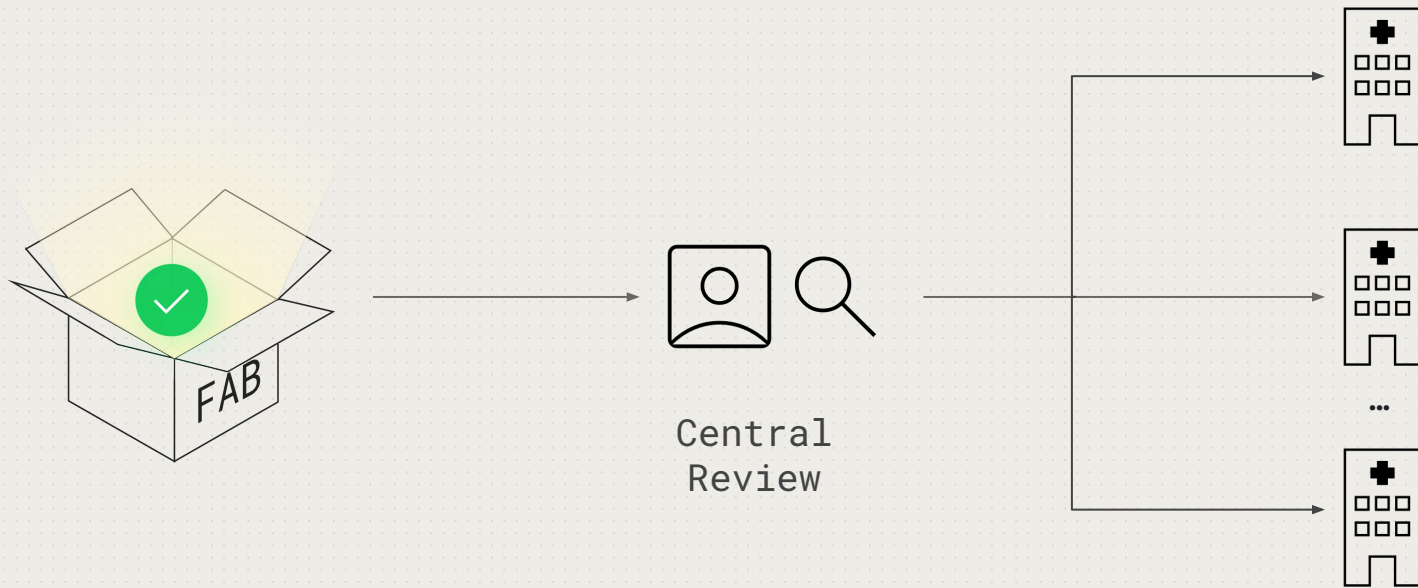
How Do You Know What's Running on Your Client?

- In collaborative AI, users run code on sensitive data
- Organizations need visibility into what they execute
- They also need a scalable way to decide what to trust



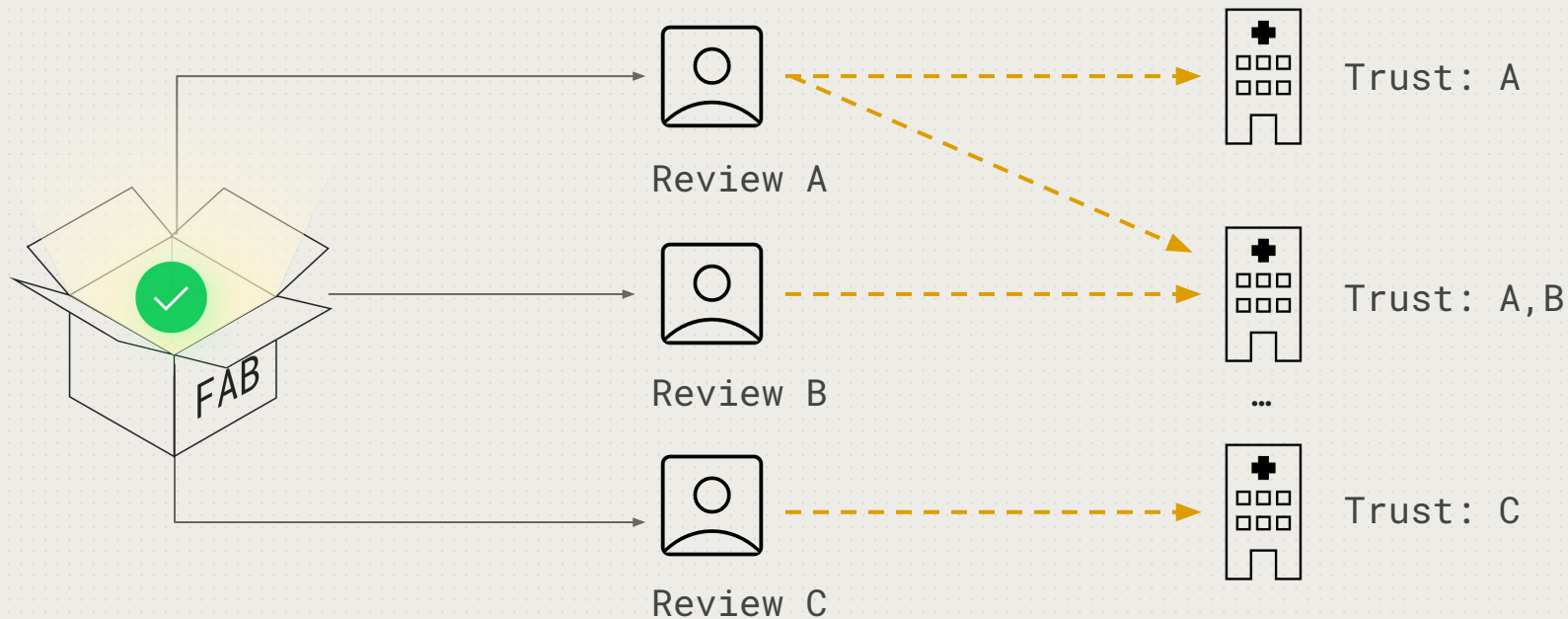
Self Review

Duplicated effort and Inconsistent security review



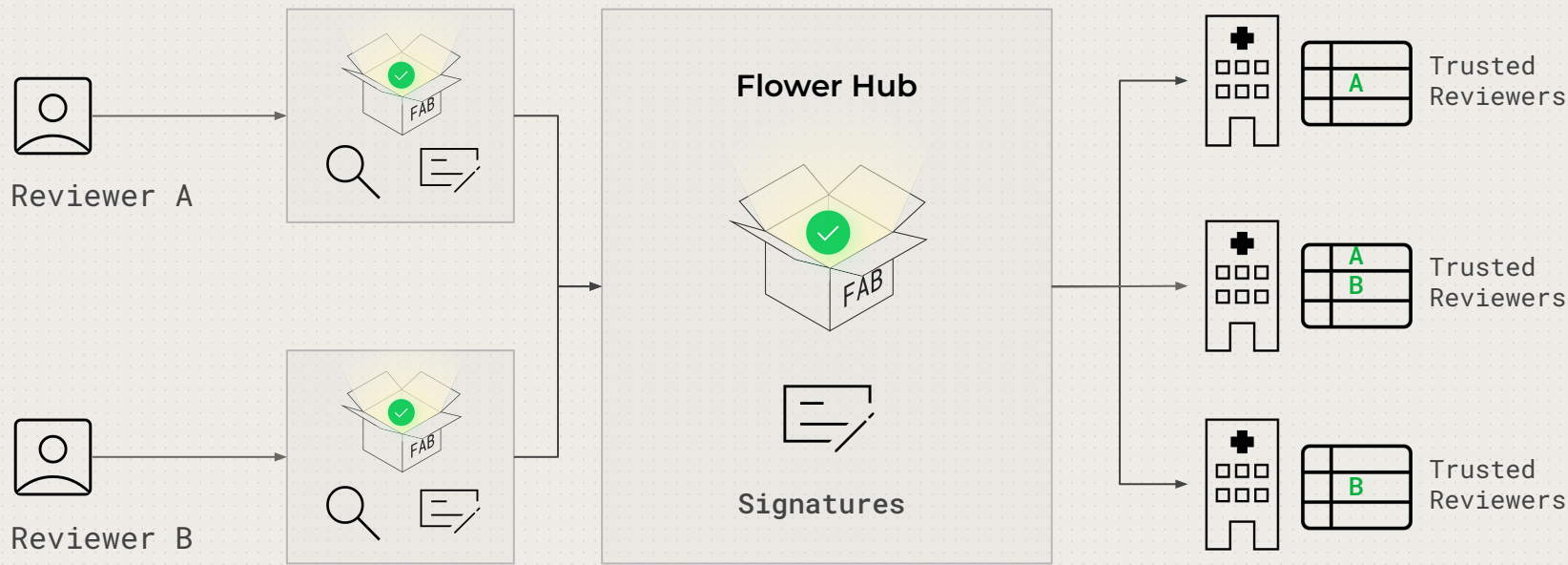
Centralized Review

Centralized trust and a single bottleneck



Decentralized Verification

Reduces duplicated review without centralizing trust



Decentralized Verification on Flower Hub

Flower Hub distributes apps and signatures; users apply their trust policy.



App Verification

Introducing Decentralized App
Verification

Flower Hub

**Decentralized
App Verification**

Available Now



V1



Bring the Existing **flwr** Ecosystem to Flower Hub

Publish your apps on Flower Hub

Dependency graph

Dependencies

Dependents

Dependabot

Repositories that depend on **flwr**



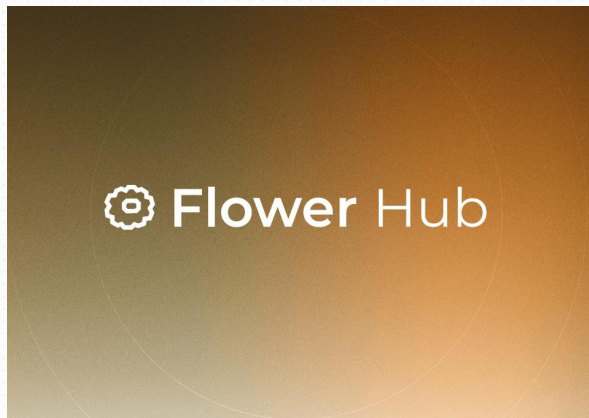
2,575 Repositories



36 Packages



Summary



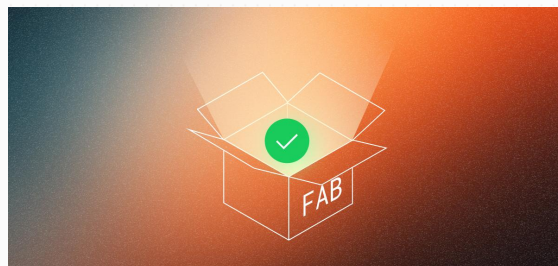
*flwr app publish
your-app*

Call to Action

Build Collaborative AI
Ecosystem Together



Launch with Partners



First Stable FAB Format

120+

Apps on Flower Hub

Early Traction

Flower Hub

Decentralized
App Verification

Available Now



App Verification