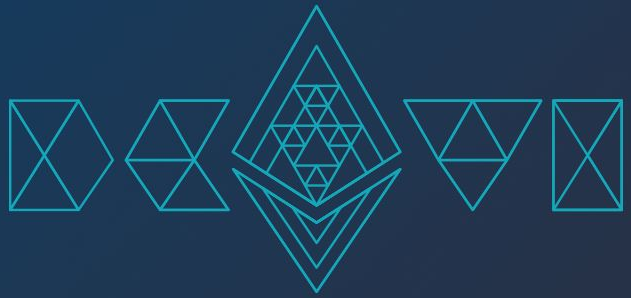


Hypercerts

for Regenerative Cryptoeconomics

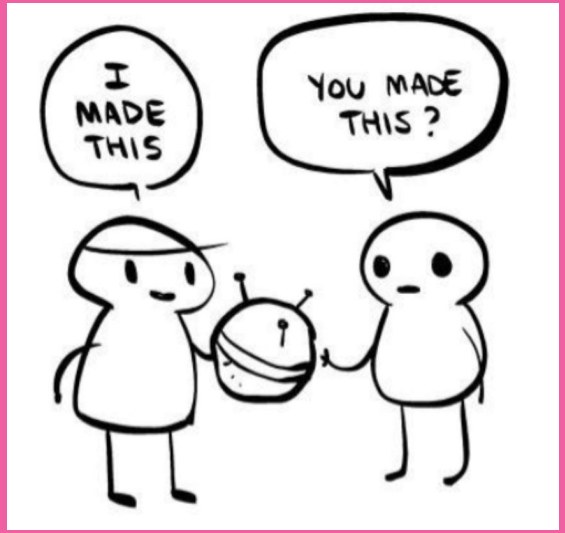
Evan Miyazono, Ph.D.

Head of Network Goods, Protocol Labs

Section 1

Yesterday, people just did things

Yesterday, people just did stuff:



People make stuff
People buy/fork/mod/steal stuff
“Seen” and “unseen” impact

Yesterday, people just did stuff:

People make stuff
People buy/fork/mod/steal stuff
“Seen” and “unseen” impact

externality (noun) -

an indirect cost or benefit

to an uninvolved third party

that arises as an effect

of another party's (or parties') activity

Costs: construction

Revenue: parking

Positive externalities: (?)

Negative externalities: absorbs heat, poor runoff

Costs: water, etc

Revenue: apples

Positive externalities: O_2,

Negative externalities: (chemical treatments?)

Yesterday

externality (noun) -

an indirect cost or benefit

to an uninvolved third party

that arises as an effect

of another party's (or parties') activity

	Rival	*Non-Rival*
Excludable	Private	Toll
Non-Excludable	Commons	Public

Costs: construction

Revenue: parking

Positive externalities: (?)

Negative externalities: absorbs heat, poor runoff

Costs: water, etc

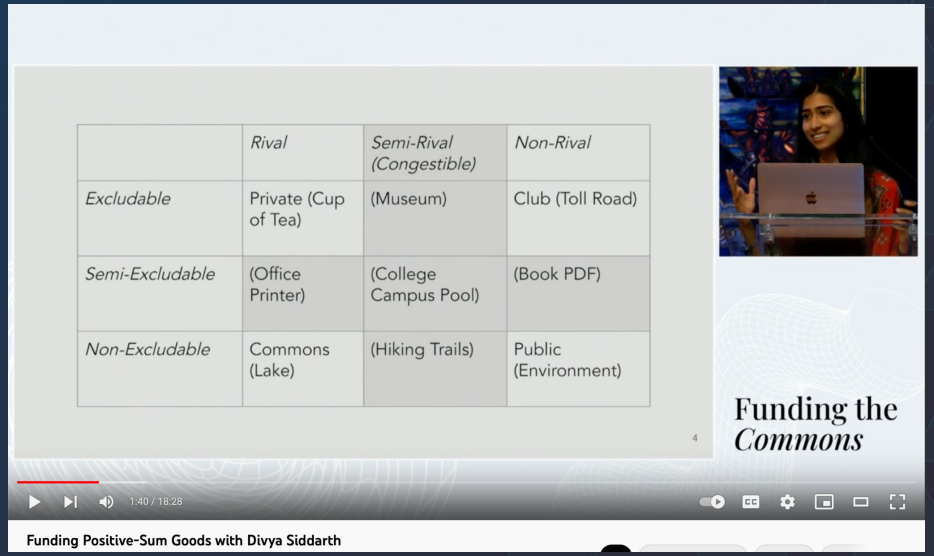
Revenue: apples

Positive externalities: O_2, rainfall absorption

Negative externalities: (chemical treatments?)

Yesterday

Also just a simplified model



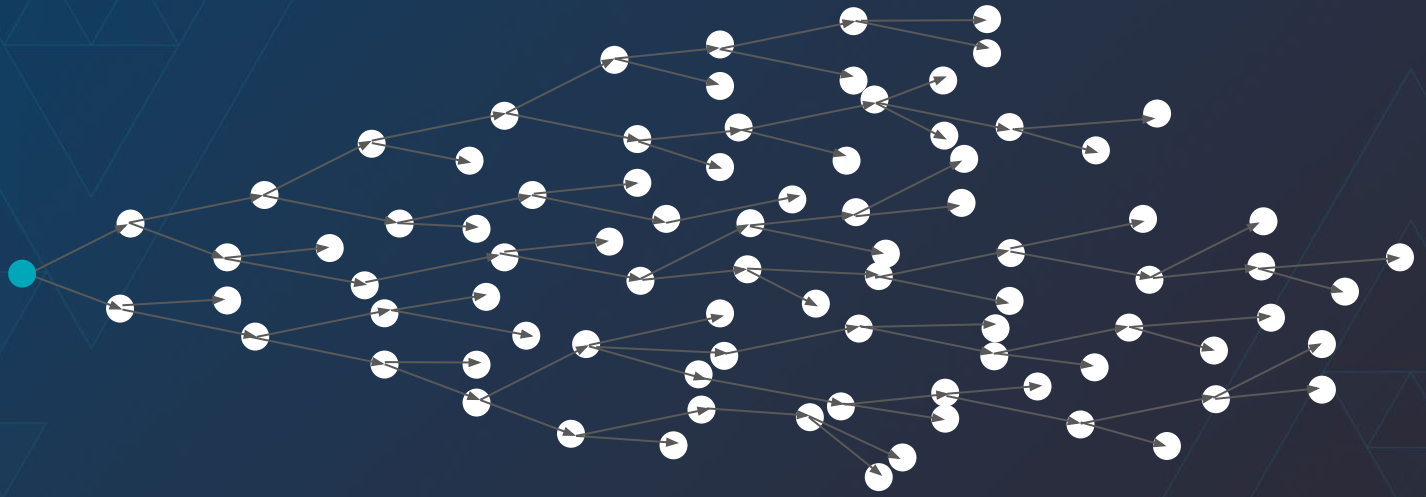
https://www.youtube.com/watch?v=jT3rilnwd5c

	Rival	*Non-Rival*
Excludable	Private	Toll
Non-Excludable	Commons	Public

impactful

Yesterday, people just did things

You could try to account for all the impact (externalities) at all times…



Or you could account for the actions (work) at any time

Section 2

Today, people can track actions

We have

Hypercerts (noun) -

a specific, interoperable data layer

to account for actions

that are expected to have positive impact

Analogous to equity interest in a non-profit enterprise

Today

Today,
people can track actions

We have

Hypercerts (noun) -

a specific, interoperable data layer

to account for actions

that are expected to have positive impact

Data fields:
Set of contributors
Scope of work
Time of work
Scope of impact
Time of impact
Rights

Today

We have

Hypercerts (noun) -

a specific, interoperable data layer

to account for actions

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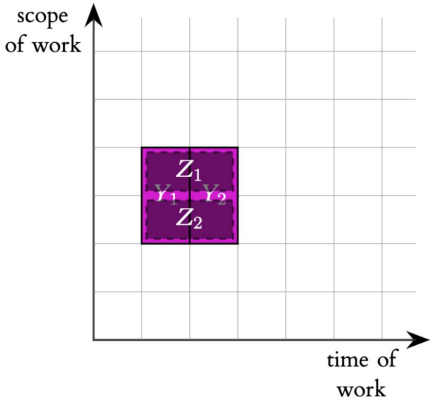
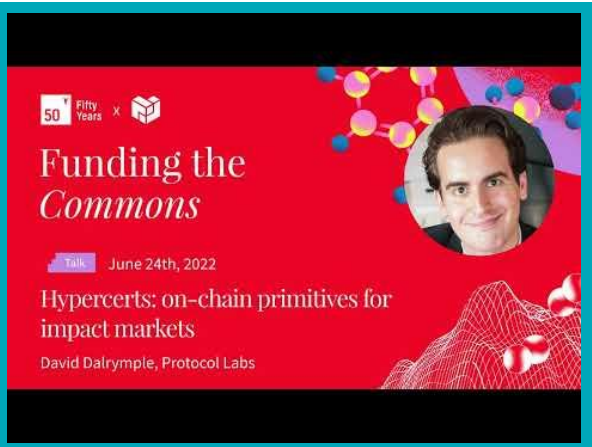
Today

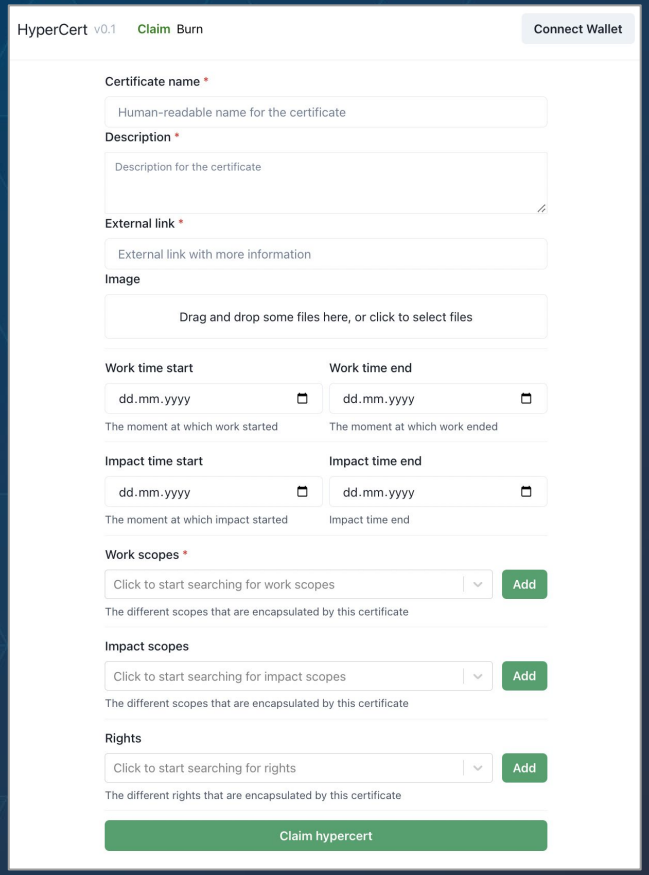
Atomic merge-and-split



- Initial state: Y_i are existing hypercerts
- Owners propose alternative split Z_i of the same region
- Required: $\sum Y_i = \sum Z_i$



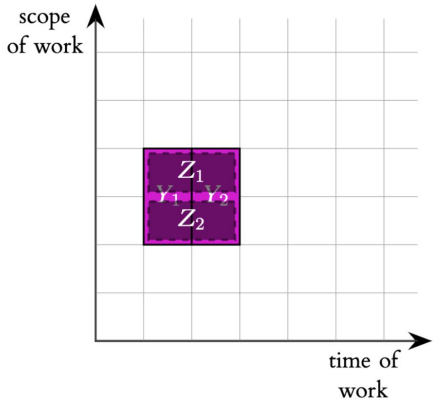
Pilot app



http://pilot.hypercerts.xyz/

Today

Atomic merge-and-split



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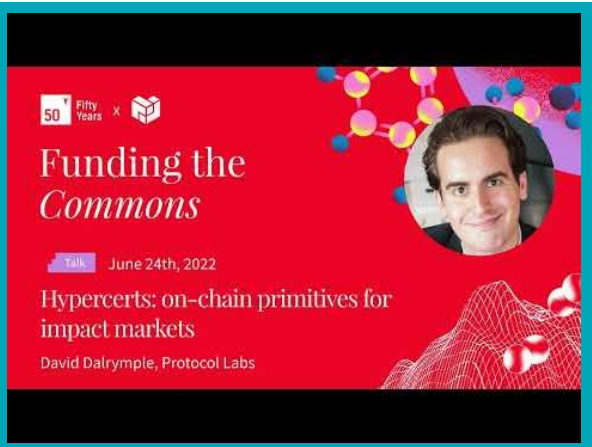

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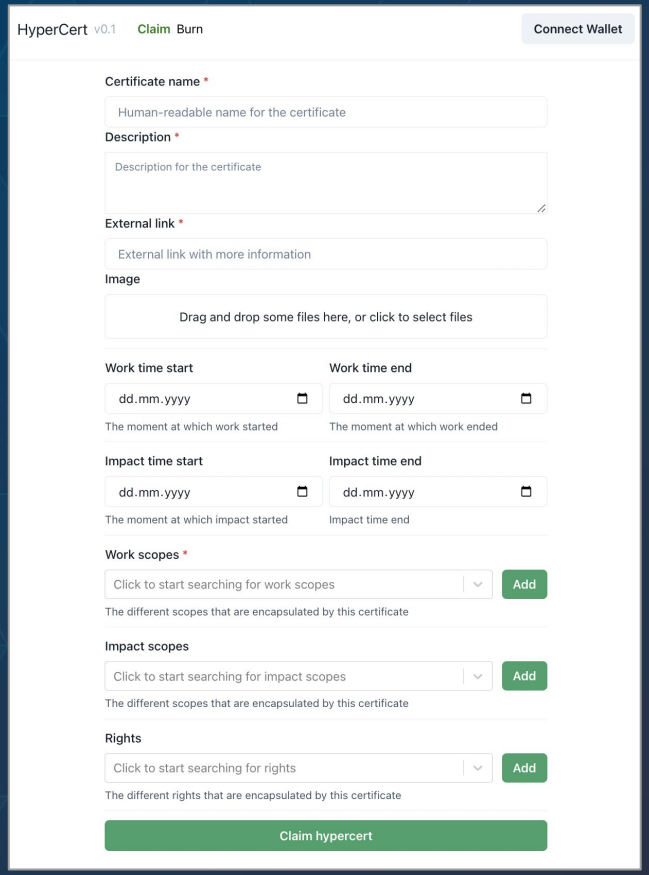


http://pilot.hypercerts.xyz/

Today

Live on the Goerli testnet

Backend is an ERC-3525

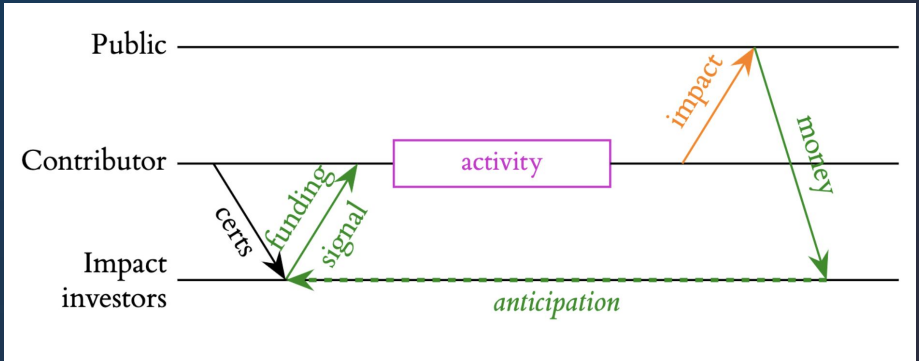
https://github.com/Network-Goods/hypercerts-protocol

Section 3

Tomorrow, people will coordinate in new ways

Tomorrow, people will coordinate in new ways

We'll start with new funding programs:

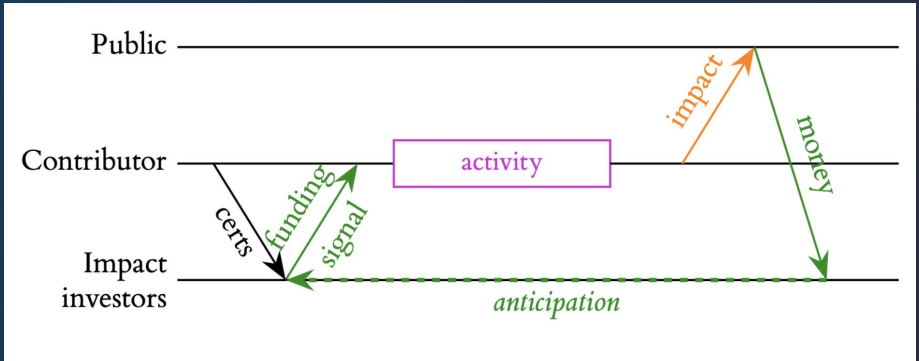


Like a bounty/prize, but…

- pledge to award the team and anyone who supported them
- in a proportion that was previously agreed upon

Tomorrow, people will coordinate in new ways

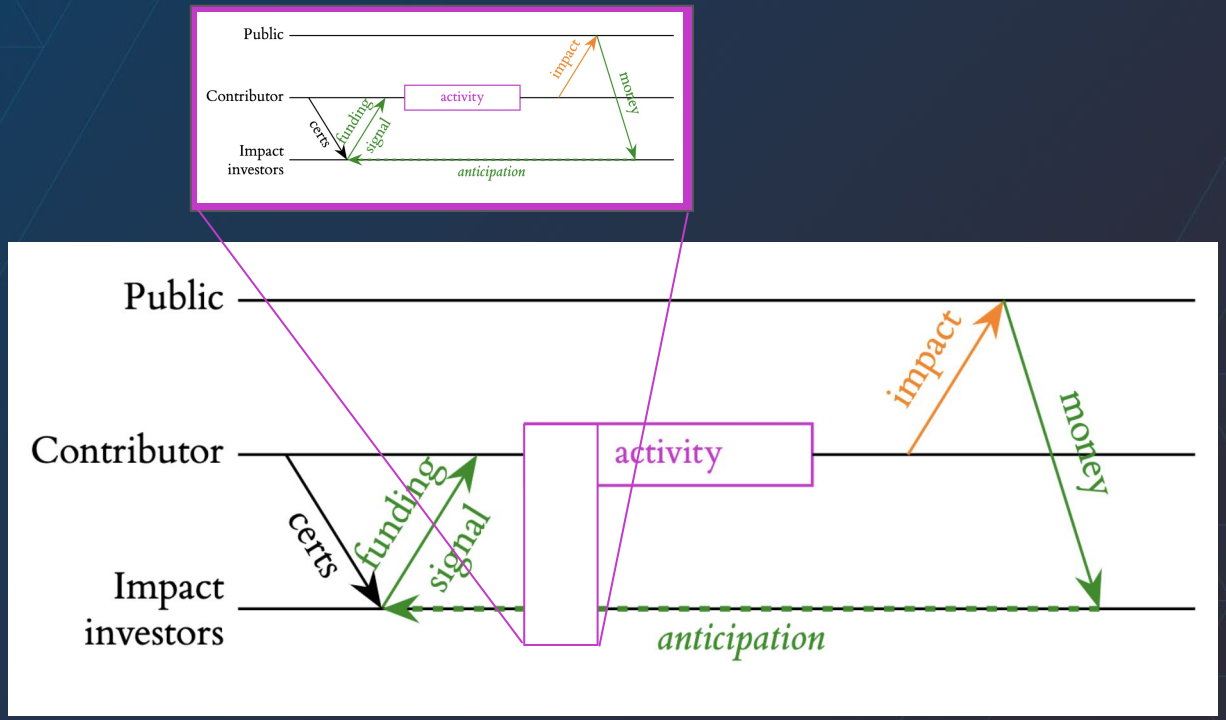
We'll start with new funding programs:



All the de-risking + causal impact of prospective funding
All the hindsight of retrospective funding

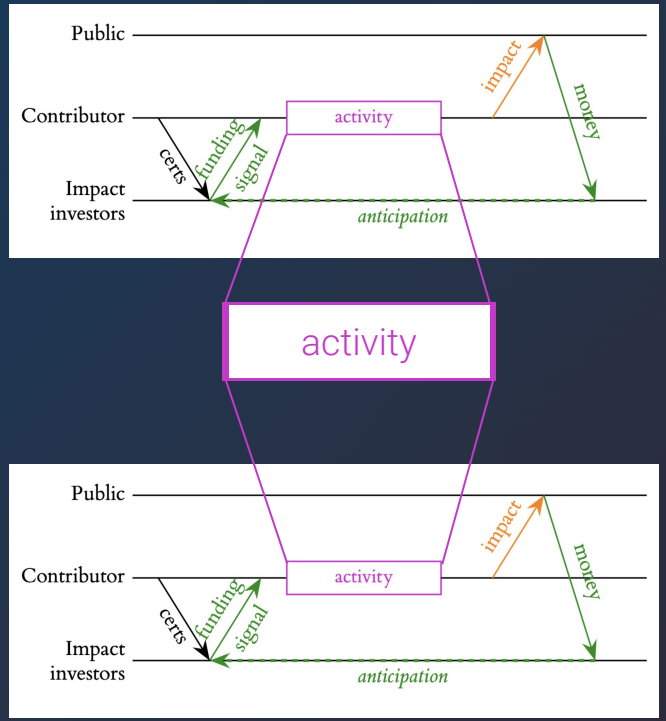
Tomorrow, people will coordinate in new ways

They'll cascade in time



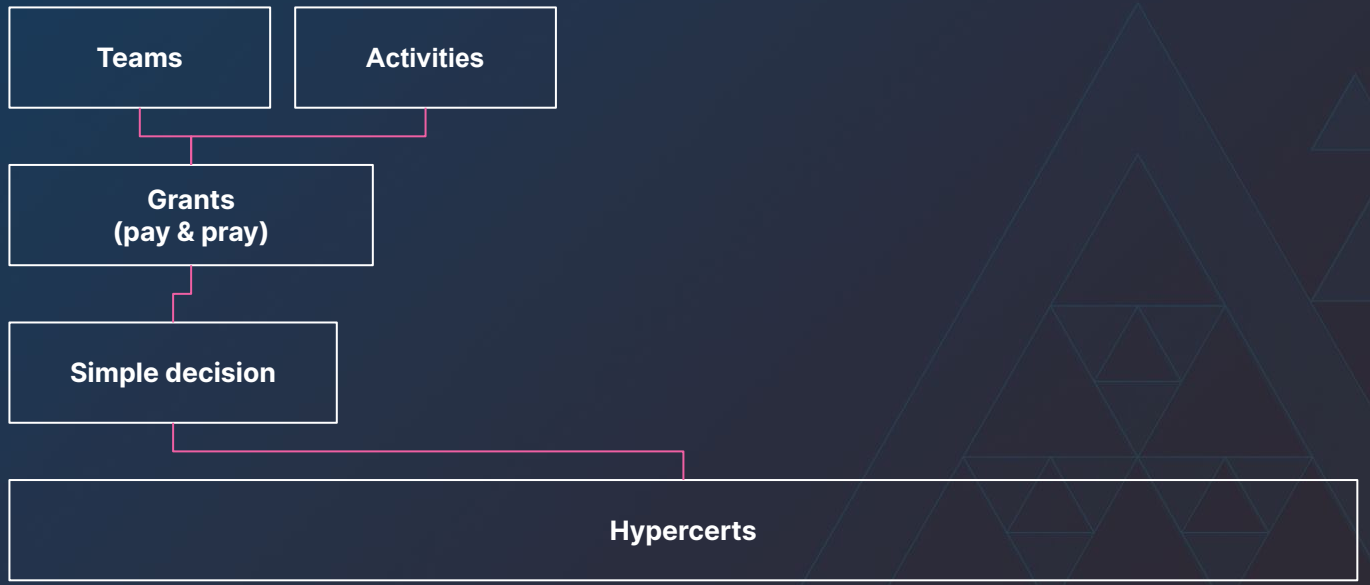
Tomorrow, people will coordinate in new ways

They'll overlap in scope



Tomorrow, people will coordinate in new ways

They'll generalize



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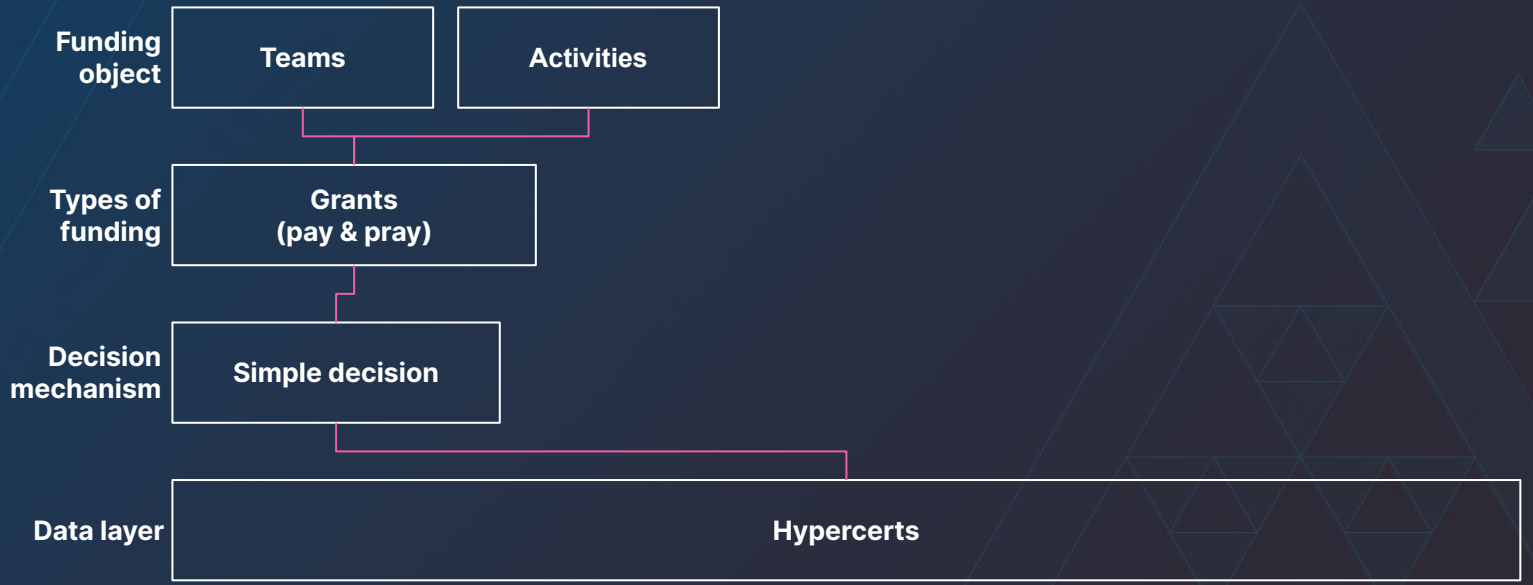

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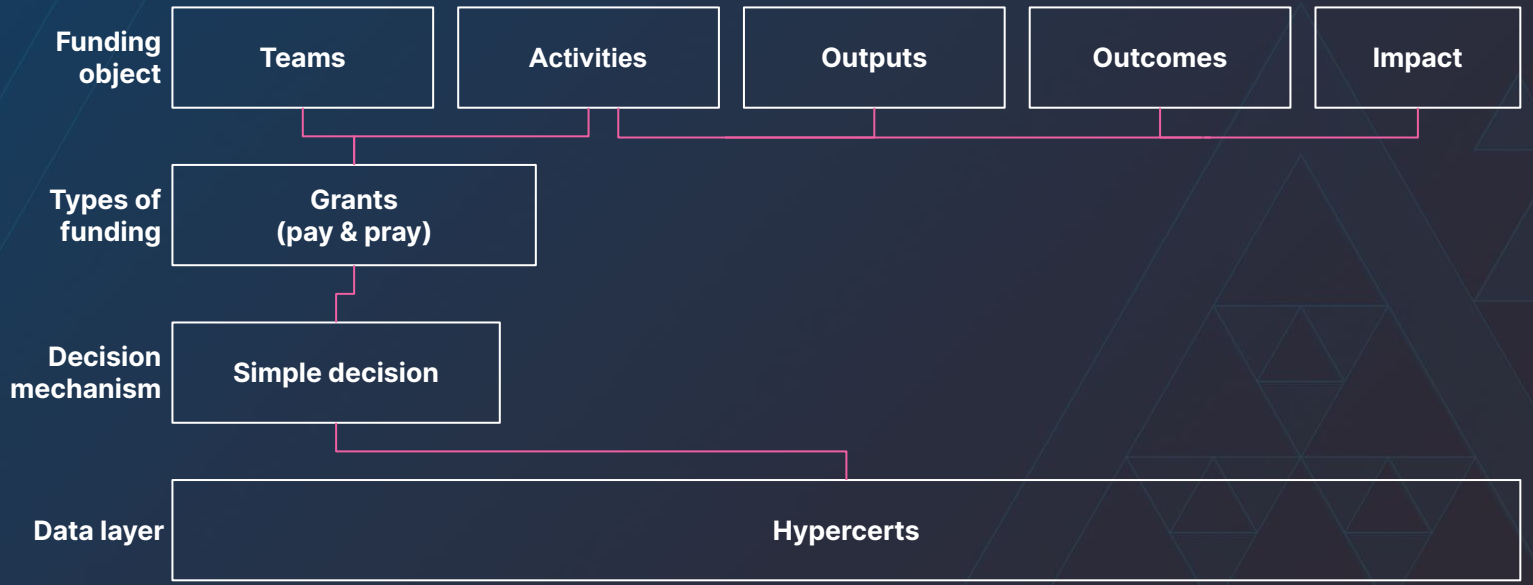

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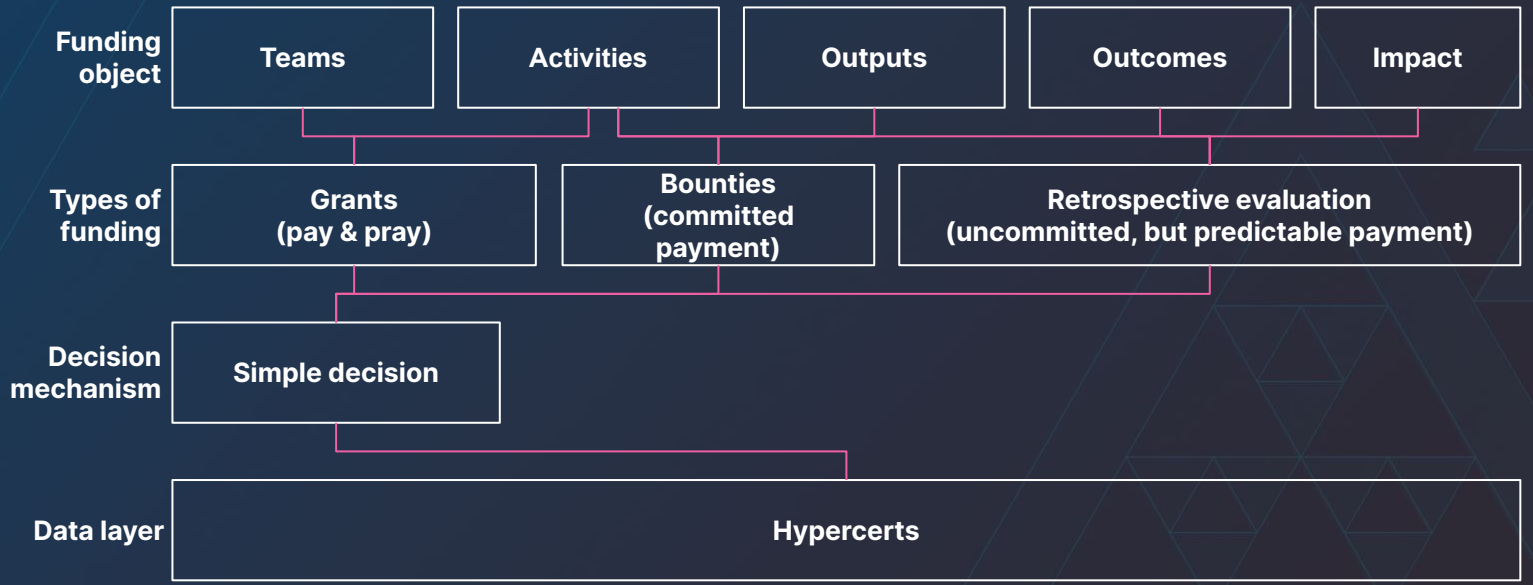

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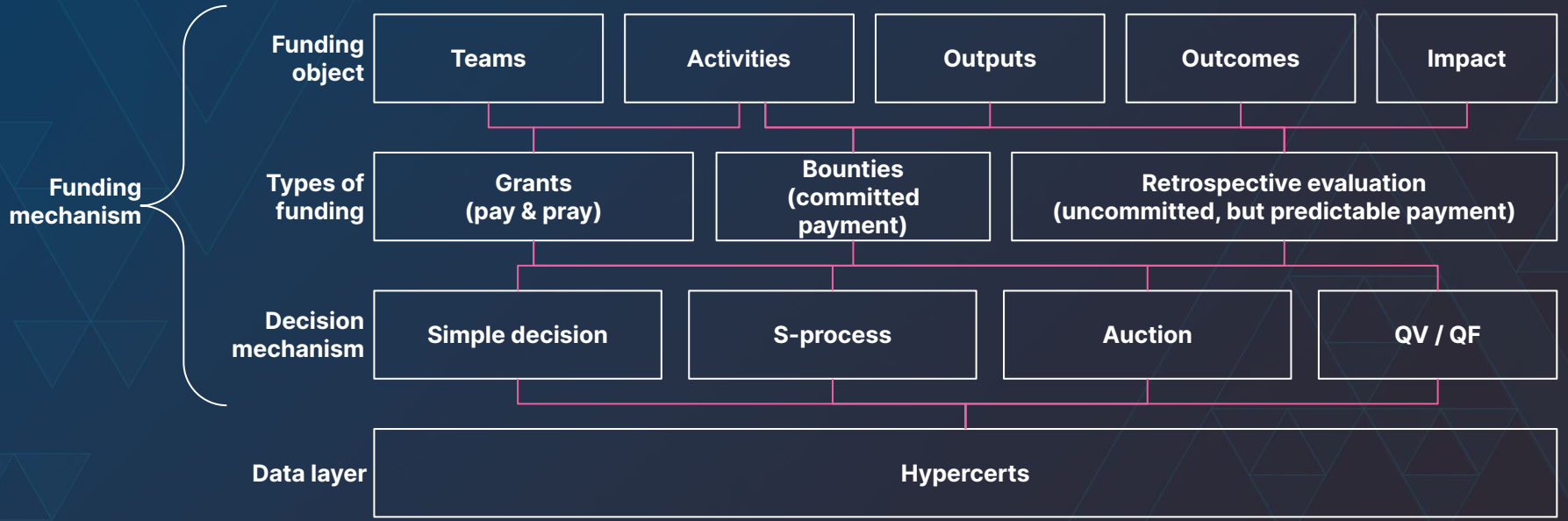


Here's the timeline.

2023 - Q1

Security audit of smart contract, compliance checks, and mainnet launch

Expect hackathons, program recruitment, integration with Gitcoin, etc.

Upcoming capabilities: Merge+split; evaluation

2023 - Q3

Estimated $50M allocated via in Hypercerts

(we're not taking fees; there's no business model in sight)

beyond

The world has a new revolutionary coordination system.

Acknowledgements:

I.e. people doing the real work

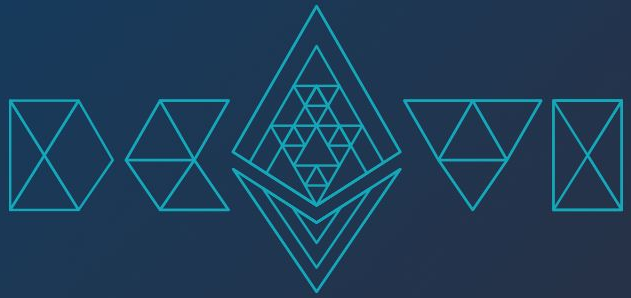
Network Funding Team

- Holke Brammer
- davidad
- Matt Frehlich
- Alex Thiel

RaidGuild

SuperModular.xyz
- Kevin Owocki
- Octavian Todirut

PL + Juan for support



Join us!

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@emiyazono

Funding the Commons:
Lisbon, Oct 26, Convento
fundingthecommons.io
commons@protocol.ai
@FundingCommons

Do you want to discuss this and other coordination systems?

Hypercerts:
hypercerts.xyz
(tg linked)
hypercerts@protocol.ai

Do you want to help implement this?

Do you want to build front-ends for this?