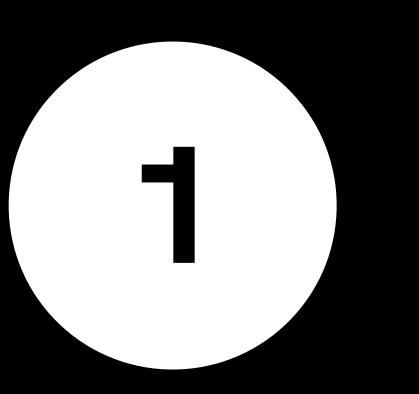
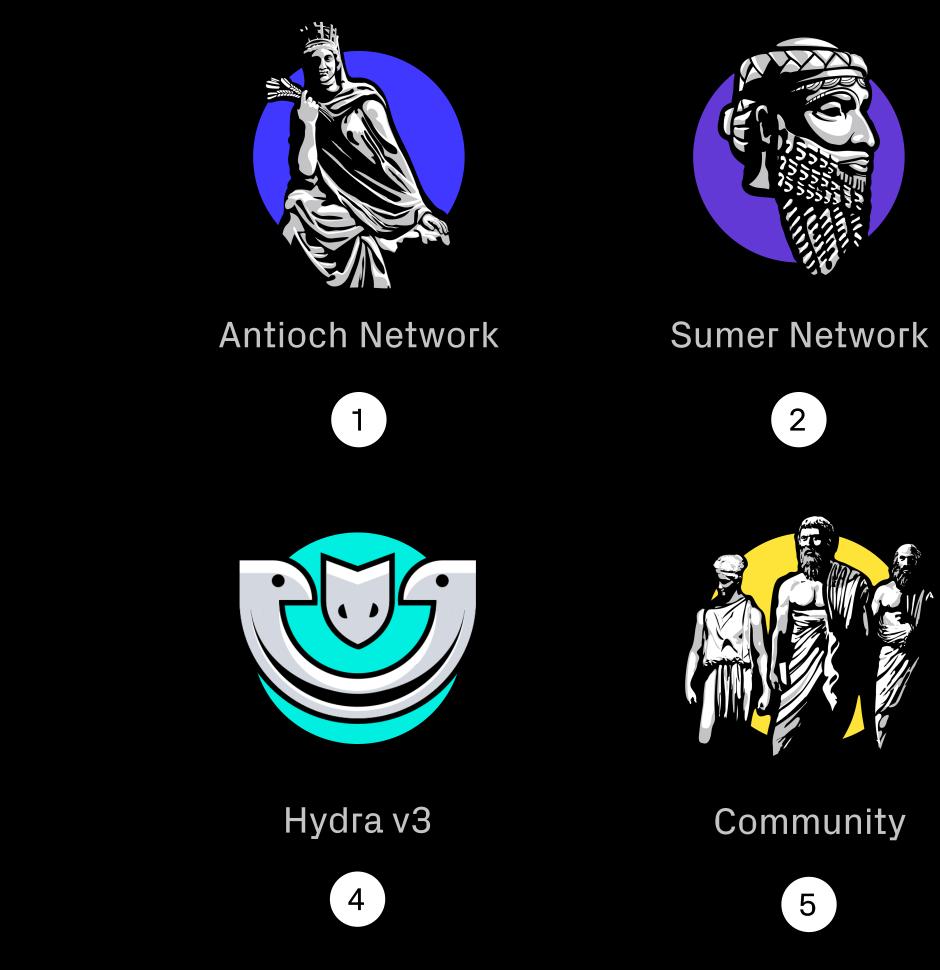
# Community Update April 5. 2021













Olympia Network

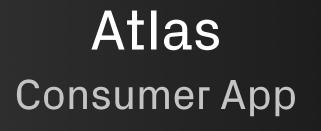
3



**New Specifications** 







**Pioneer** Governance App

### Jsgenesis Infra

Payouts, metrics, etc.

Orion Atlas Backend

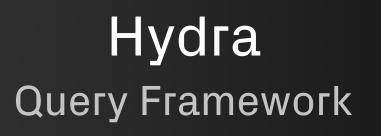
Integration Tests E2e network testing Substrate Node Validator Node

joystream.js Developer Library

Argus Distributor Node

### Query Node Mappings & Schemas

CLI Command Line Tool



### Colossus Storage Node

### Runtime Substrate Runtime

### Charon Gateway Node

Founding Members Program

### Council KPIs

### Bounties

### Testnet Roles

Planned, not started.





Shamil Gadelshin Blockchain Engineer



Arsen Kondratiev Blockchain Engineer



Dmitrii Zhelezov Blockchain Engineer



Martin Wessel-Berg COO & Growth



Piotr Sadlik Front-End Engineer



Vladyslav Mazuren Front-End Engineer



Mikołaj Jędrzejewski Front-End Engineer



Klaudiusz Dembler Front-End Engineer



Natalia Kirejczyk Designer



Leszek Wiesner Front-End Engineer



Miłosz Klimek Designer



Bedeho Mender CEO



Ondrej Raska Blockchain Engineer



Gabriel Steinberg Blockchain Engineer



Metin Demir Blockchain Engineer



Maciej Gołaszewski Front-end Engineer



Edvin Dzidic Front-End Engineer



Bartosz Dryl Front-End Engineer



Diego Cardenas Front-End Engineer

Designer



**Ben Holden-Crowther** Growth



Kuba Mikołajczyk Designer



7. FR

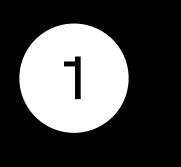
Mokhtar Namaani CTO

Tomasz Nadratowski





### Antioch Network





# Antioch Network Launching

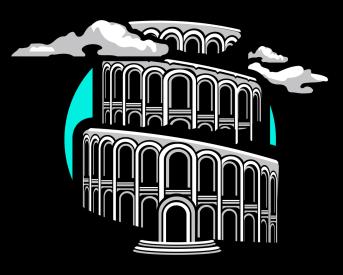
Rescuing the Babylon network.

ANTIOCH

### **Announcing Antioch**

After encountering a chain split bug on the now unrecoverable Babylon testnet, we have decided to transition over to the patched and improved Antioch network.





### Runtime Upgrade

~1 week ago

### Babylon Network

3 months

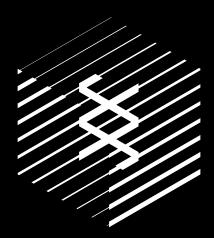
# New Runtime Chain split

 $\geq$ 

### Old Runtime

### **Bug in Substrate** Our best hypothesis.





🖟 parityte	ech / <b>substrate</b>					⊙ Watch 👻	,
<> Code	Issues 631	1 Pull requests 67	Discussions	▹ Actions	Projects 8	🕮 Wiki	(!

### Invalid signatures passed to a pallet's method stop block import #6585

() Open nahuseyoum opened this issue on Jul 6, 2020 · 0 comments

```
nahuseyoum commented on Jul 6, 2020 • edited -
                                                                                                           ··· 😳
                                                                                               Contributor
We have a pallet with a function that accepts an SR25199 signature and verifies it. Our implementation looks like this:
  pub trait Trait: system::Trait {
     . . .
     type Public: IdentifyAccount<AccountId = Self::AccountId>;
     type Signature: Verify<Signer = Self::Public> + Member + Decode + Encode;
And a verify method which verifies the signature
  pub struct Proof {
     pub signer: T::AccountId,
     pub signature: T::Signature,
  fn verify_signature(
         proof: &Proof<T::Signature, T::AccountId>,
         signed_payload: &[u8]
     ) -> Result<(), Error<T>>
      match proof.signature.verify(signed_payload,&proof.signer)
          true => 0k(()),
          false => Err(<Error<T>>::UnauthorizedTransaction.into()),
 }
```

This setup worked fine for us until recently where we discovered that our network was stopping to finalise with an error about Signature verification.

Version: 2.0.0-rc2-5eb246fb6-x86\_64-linux-gnu

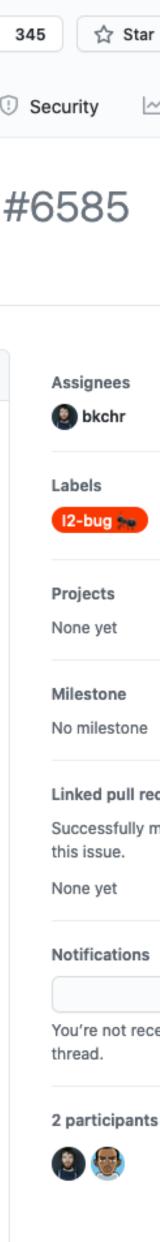
0: sp\_panic\_handler::set::{{closure}}

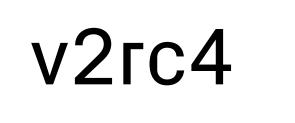
1: std::panicking::rust\_panic\_with\_hook

```
at /rustc/b8cedc00407a4c56a3bda1ed605c6fc166655447/src/libstd/panicking.rs:476
```

```
2: std::panicking::begin_panic
```

\_\_\_\_\_





### v2.0.1



### Antioch Network

<1w from today

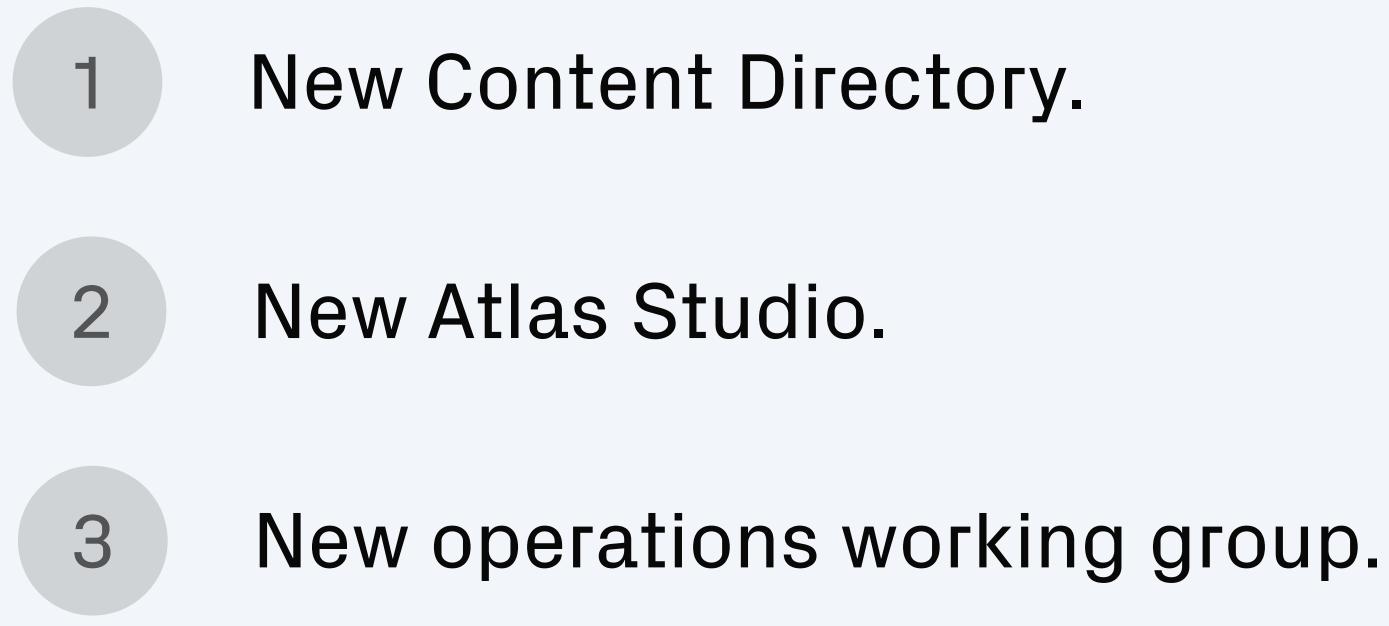


### Sumer Network









### Live ~late April



# New Content Directory

- Simple data model & permissions
- Extensible metadata standard
- Finalized



#### Introduction

KEY CONCEPTS

Staking

Fees

Encodings

Glossary

#### GOVERNANCE

Council

Proposals

Working Groups

#### SUBSYSTEMS

Membership

Content Directory

Forum

Council Blog

Bounties

Storage

Bandwidth

Gateways

Builders

EVM

Content Finance

Validation

Interoperability

### **Content Directory**

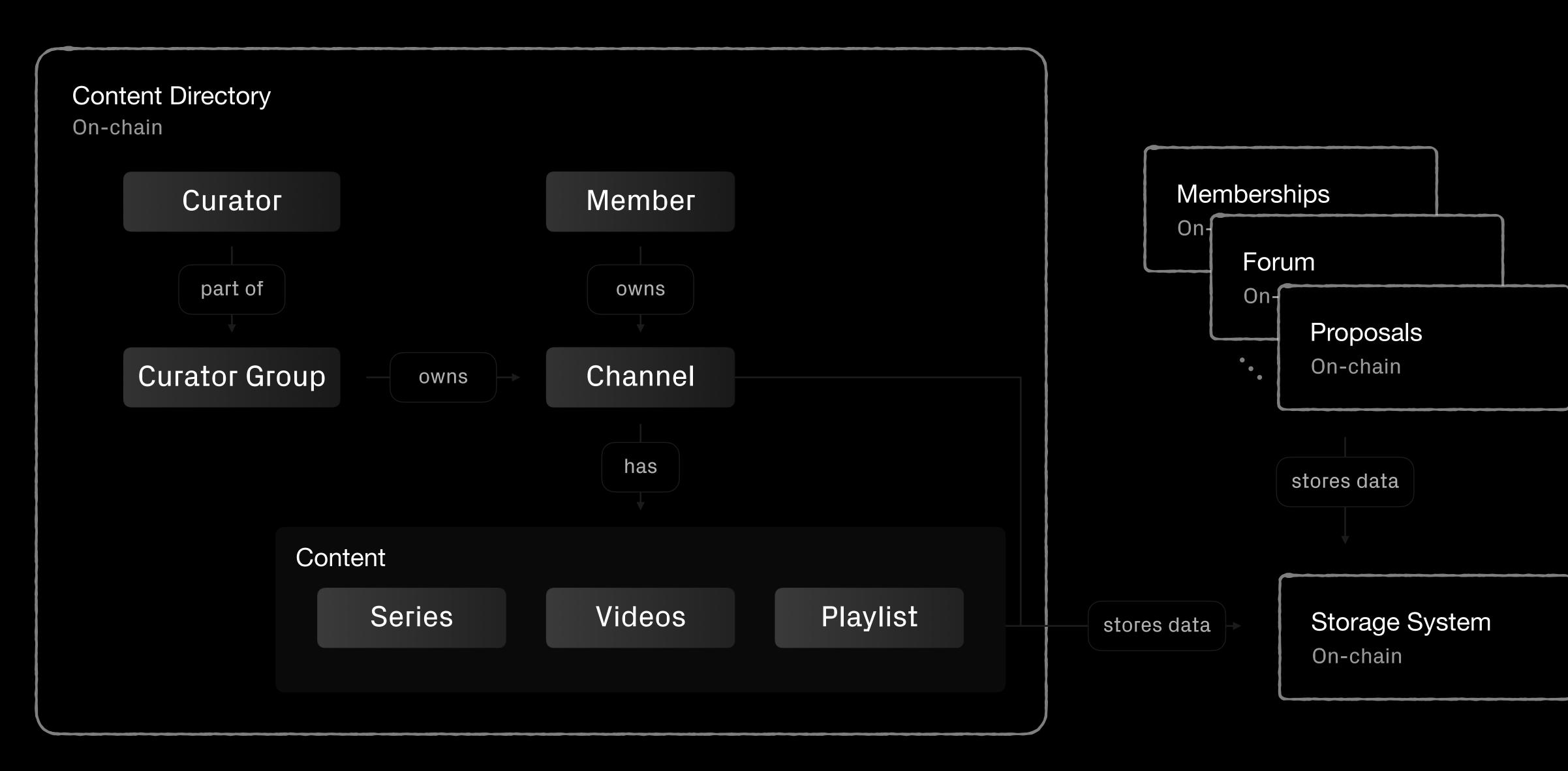
#### Introduction

The content directory is an on-chain index of all content and metadata, and related conc channels and playlists. The data model was conceived to facilitate publishing and curati inherent to the platform within the constraints of the blockchain environment, as a result following four major design traits:

- Versioned: Entities can have multiple simultaneous representations, known as sche flexibility of multiple representations per entity allows us to avoid having to migrate directory whenever we want to alter the representation of some category. For example metadata field to videos. This is extremely valuable, because such a migration - eve not only require freezing substantial portions of on-chain state across multiple block incur the same high-security risk as doing any runtime upgrade at all. As a result, it of infrequently, and only after substantial community coordination. This is extremely co platform because the content directory has to be able to evolve quickly to allow new features.
- Structured: Representations are structured. This structuring not only allows for integrations. on the content but also is the foundation for having permissions in the context of a scenario. Without structure, you cannot selectively give different actors to write acc properties.
- Linked: Representations are linked allowing us to build realistic domain models when reused in different relationships.
- Owned: Entities are owned, initially be the actor responsible for creating them, and t permission model is aware of this ownership status.
- Bespoke write access model: There is a write access model that attempts to capture access control rules one would want to enforce over this type of data model. The m accommodate an evolving set of subject matter domain concepts without being up very assumption mentioned prior. As a result, it has a bespoke structure that attempt balance between simplicity and expressivity.

#### Working Group

The content directory subsystem has a working group. The purpose of the group is to all





# **Atlas Studio**

Sign-up, create and manage channels, publish and manage videos.



 $\equiv$ 

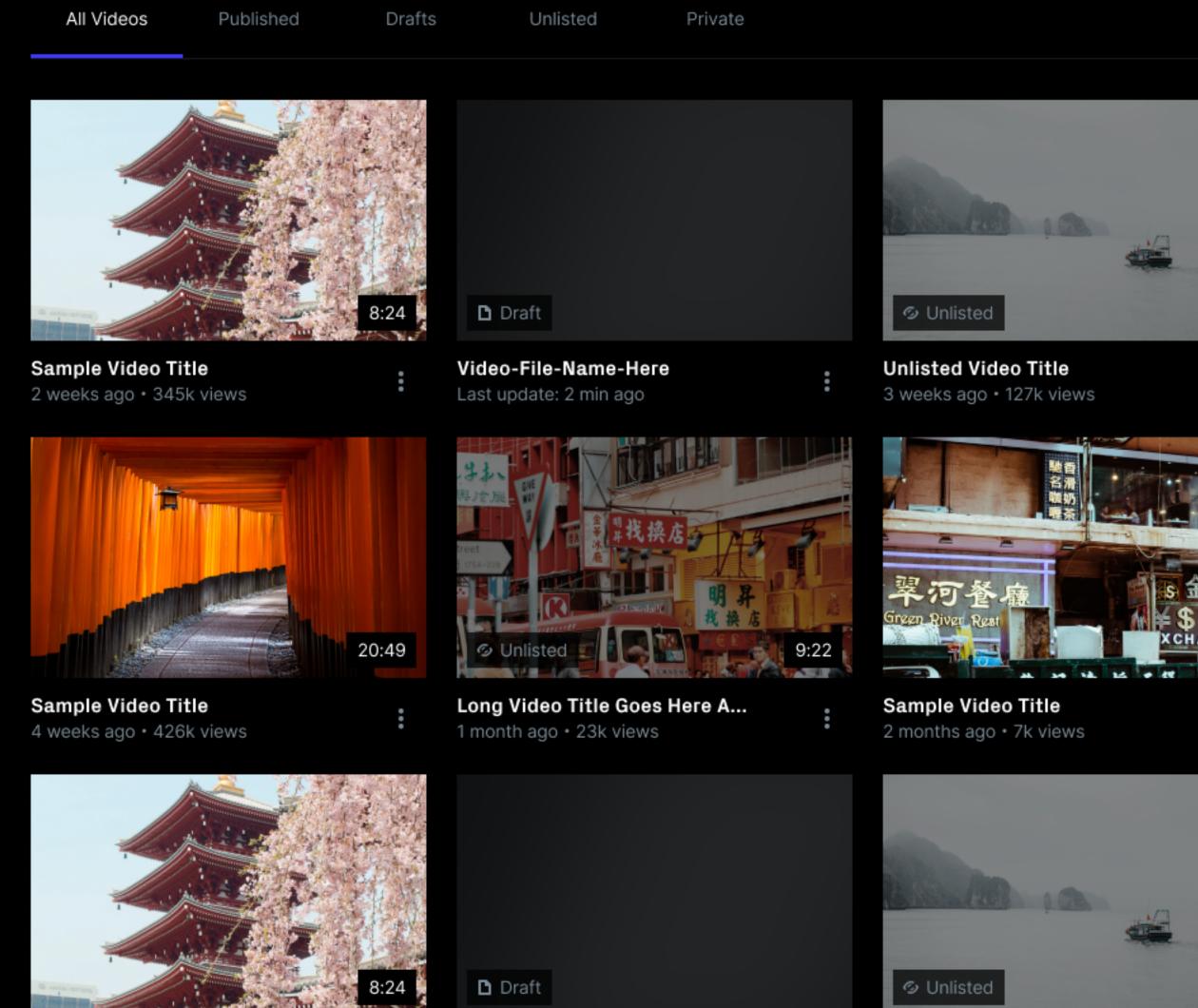
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### My Videos

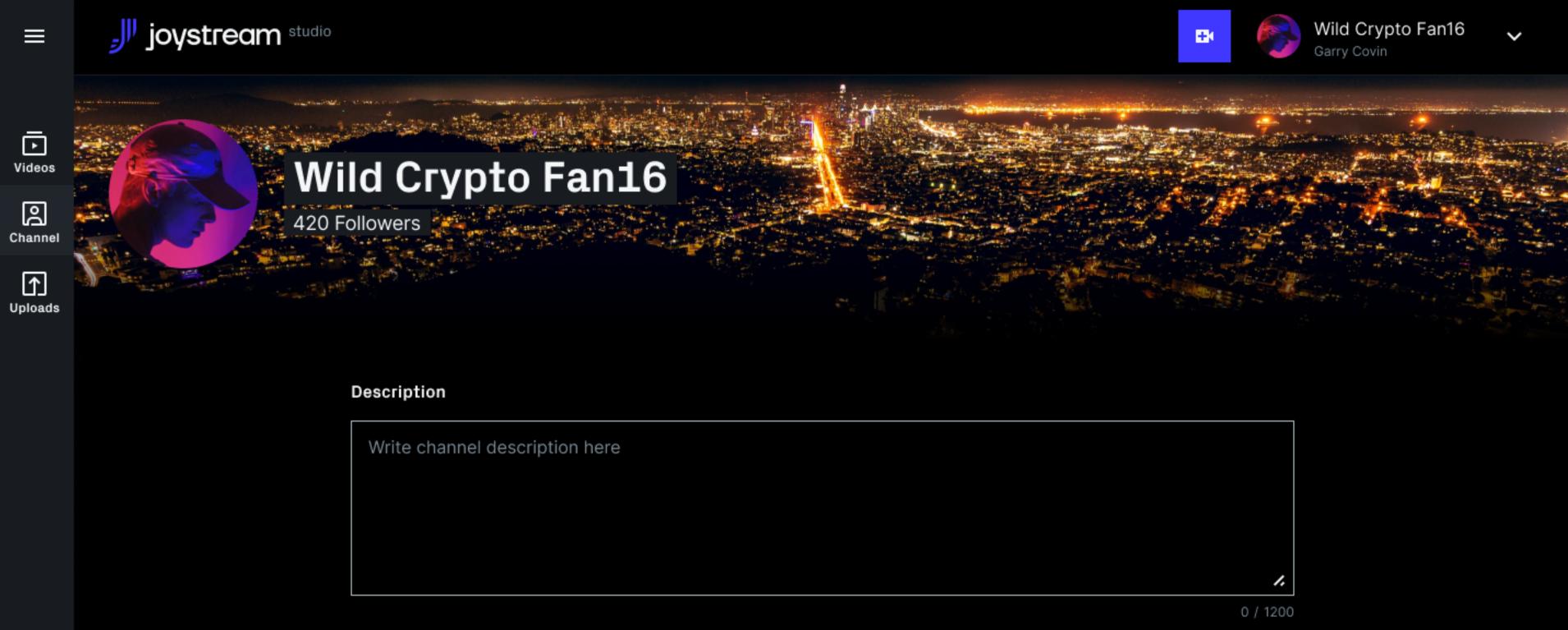


Sample Video Title 2 weeks ago • 345k views

Video-File-Name-Here Last update: 2 min ago

Unlisted Video Title 3 weeks ago • 127k views





#### Channel Language

Channel language is the main language the content you publish on your channel.

Choose language

#### Publicness

Channel language is the main language the content you publish on your channel. We use it to provide users feed they look for. This

 $\sim$ 

### joystream studio



ရိ

Channel

### My Videos



Published

Drafts

Unlisted





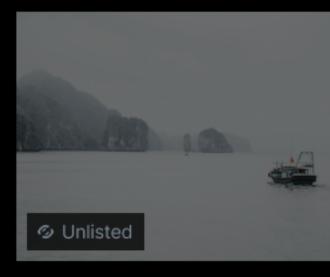
**Default Video Title** 2 weeks ago • 345k views



Default Video Title 2 weeks ago • 345k views



Default Video Title 2 weeks ago • 345k views



Unlisted Video Title 3 weeks ago • 127k views



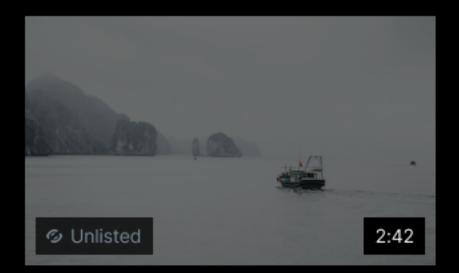


#### Wild Crypto Fan16

 $\sim$ 

Member name <150px





Unlisted Video Title 3 weeks ago • 127k views



**Default Video Title** 2 weeks ago • 345k views

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**Default Video Title** 2 weeks ago • 345k views



Default Video Title 2 weeks ago • 345k views



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	1 Step 1 Select Video F	ile		2 Step 2 Select Thumbnail Image

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0 / 4
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Choose category

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▶ Videos							
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		Accepting JPG, PNG formats (Example da					
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	$\odot$	Lost in the woods? EP3 2 assets		
	$\odot$	Lost in the woods? EP4 2 assets		
	$\odot$	Lost in the woods? EP5 2 assets		

~	Hember name <150px	
~	(1) Asset upload failed	
~	Uploaded (60%)	
~	Uploaded (20%)	
~	Uploaded (40%)	
~	Waiting for upload	
~	Waiting for upload	

3

# **Operations** Working Group

Formalising entry, periodic rewards and staking for off-chain roles such as

- Developers
- Managers
- Marketers



#### Introduction

KEY CONCEPTS

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Content Finance

Validation

Interoperability

### Working Groups

Working groups organize subcommittees of incentivized and staked contributors around subsystem of the platform to work.

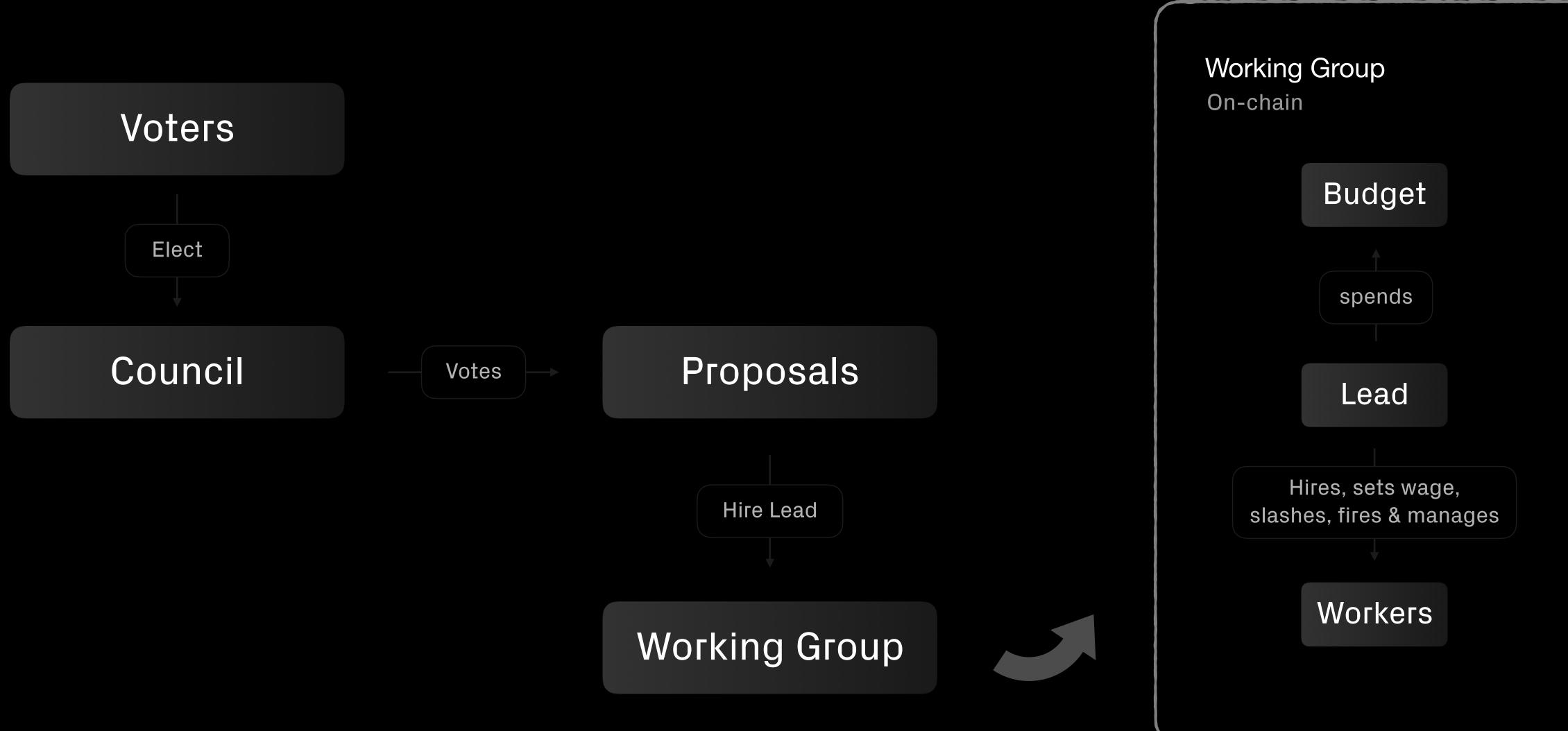
#### Introduction

A working group is an organizational body, subject to the oversight of the council, which responsible for the day to day functioning of some subsystem of the platform. There is e working group per subsystem. The rationale for having a working group for this purpose, having the council directly involved, has three parts. First, since all council members are be fully informed on all matters the cumulative workload of overseeing all subsystems w feasible for a single council. Second, even if it was feasible, voting is not a sound means such decisions, because there is a lack of guaranteed coherence in the decisions over til each subsystem will over time likely require a differentiated skill set, knowledge base an capital. The appropriate analogy for understanding the role of the working groups in the operation of the system would be a commission or agency body in a political institution.

#### Roles

The relevant roles in a working group are

- Applicant: A member who has submitted an application to join an opening for a wor the working group. A given member may apply more than once to a given opening, a they already occupy the role as worker the same group. Openings are created by the below), or by the council when wanting to fill the lead role.
- Worker: A member who has, through an application, entered the working group. The or may not be staked, and is receiving payouts to a designated account at regular in worker role gives some ability to act in a domain specific way within the given subsy example in the context of the forum, a worker in the forum working group can be as a moderator in certain forum categories, and have associated moderation privileges member may act as multiple works simultaneously, or over time, in the same workin
- Lead: A designated worker who is responsible for hiring and managing the other wo as allocating funds from a budget towards purposes that support the success of the Also the leader could set the general working group status, like:
  - a a one line status messare on the subsystem.







### Olympia Network





### Goals

## New benchmarked & audited runtime.

Working groups, council, elections, staking, council, forum, constitution, proposals, membership system.



1

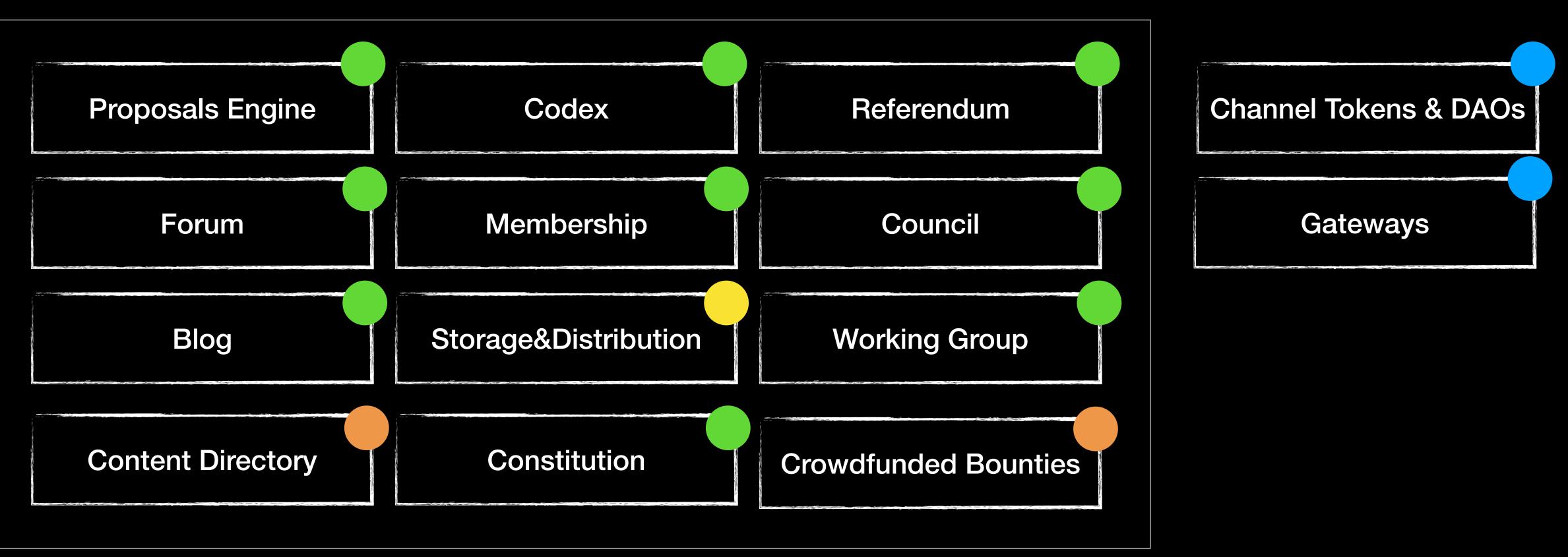
### Pioneer v2.

Redesigned and built from scratch, using Hydra.

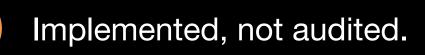
Live ~Q2/Q3 2021











Under development.



Not started development.







# Pioneerv2

Pioneer is the app where token holders vote, stake, work, communicate and collaborate on the Joystream blockchain.

🔊 joystrear

🗄 Dashboa

⑧ My Profil

田 Working

🖻 Proposal

🖻 Council

合 Constitut

🔁 Validator

🖻 Forum

🖻 Members

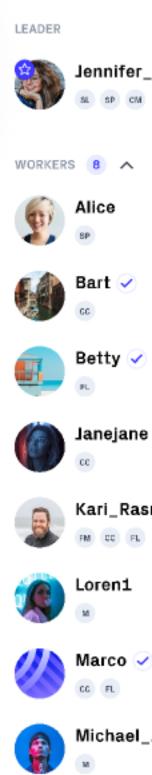
🖻 Settings

MEMBERSHIPS 3 **P** Alice

TOTAL BALANCE

109,821.242 JOY

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CONTENT LEAD UPCOMING OPENING			
CURRENT BUDGET ?	WORKING GROUP D	ЕВТ ?	AVG STAKE ?
150,200.00 JOY	-200.00 J	Y	YOL 00.000,001
UPCOMING OPENINGS			
Time to begun: 6 days : 56 min			
Storage Working Group			
Content Curators will one day be a Joystream are format	essential for en	suring that the petaby	rtes of media items uplo
	essential for en 10	suring that the petaby	tes of media items uplo <b>150,000.00</b> JOY
Joystream are format			
Joystream are format 13,923.00 JOY	10	1	<b>150,000.00</b> JOY
Joystream are format 13,923.00 JOY	10	1 Target no of Hires	<b>150,000.00</b> JOY Minimum Stake Required
Joystream are format 13,923.00 JOY Reward per 3600 blocks	10 Applicant limit	1 Target no of Hires	<b>150,000.00</b> JOY Minimum Stake Required





### Hydra v3





# Example: Blogging Blockchain

Block 1

Bob posts "hey" in thread 1

Carol posts "sup" in thread 2

Block 2

### Block 66871

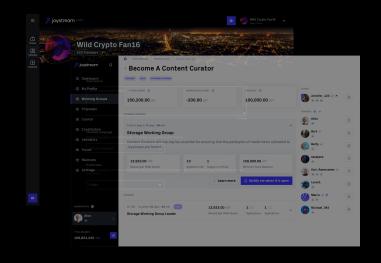
Bob posts "yo" in thread 2





# Naive Architecture

### Application



Queries

### Full Node

# Infeasible Queries

How many posts did Carol post in May?

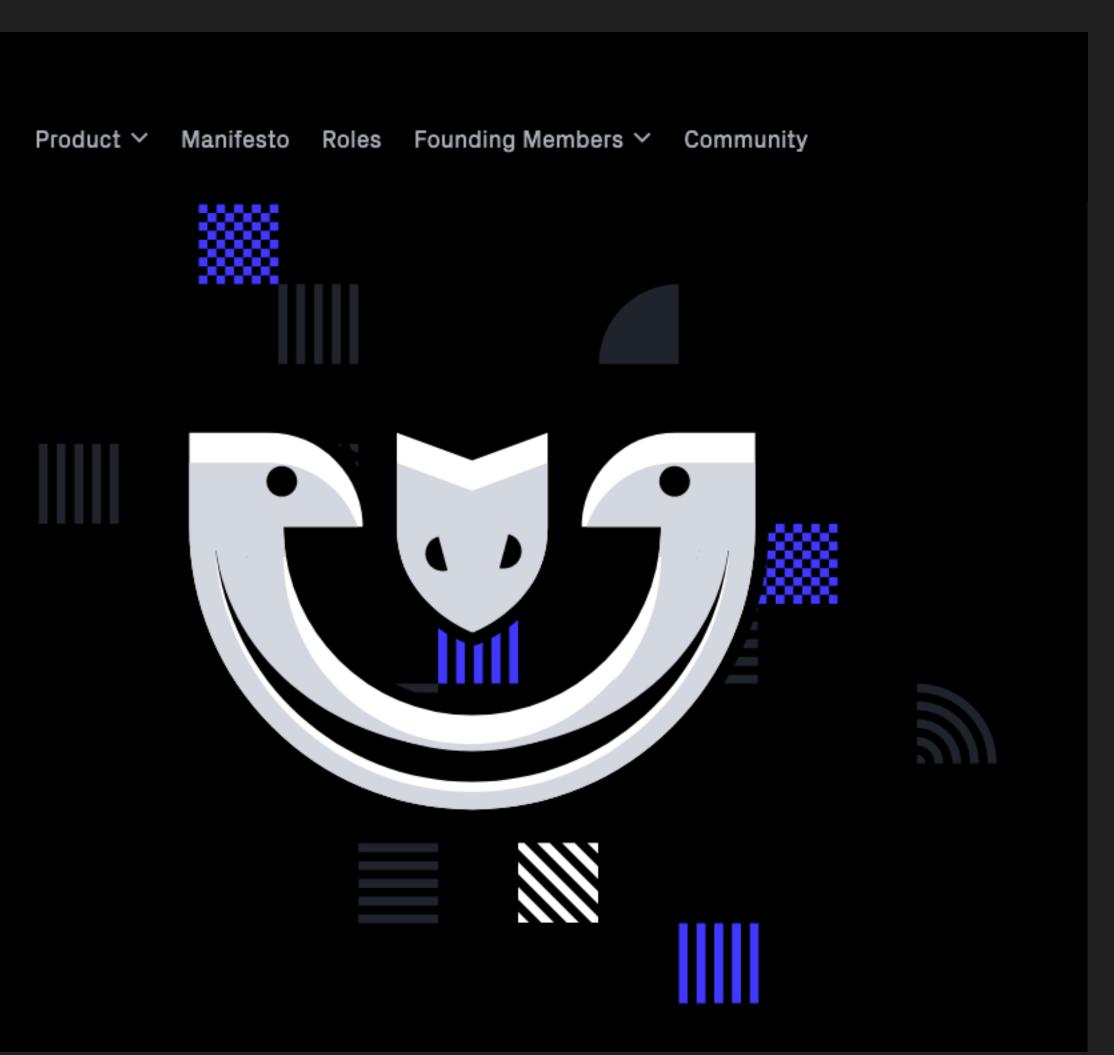
• What are all of Bobs posts, order by date, where he talks about "Trump"?

• What are posts 400-600 in thread nr. 2?



### Hydra - A Substrate query node framework

Inspired by The Graph, it gives a smooth way to provide powerful GraphQL queries to app developers over your Substrate blockchain state and history.







#Hackusama are:

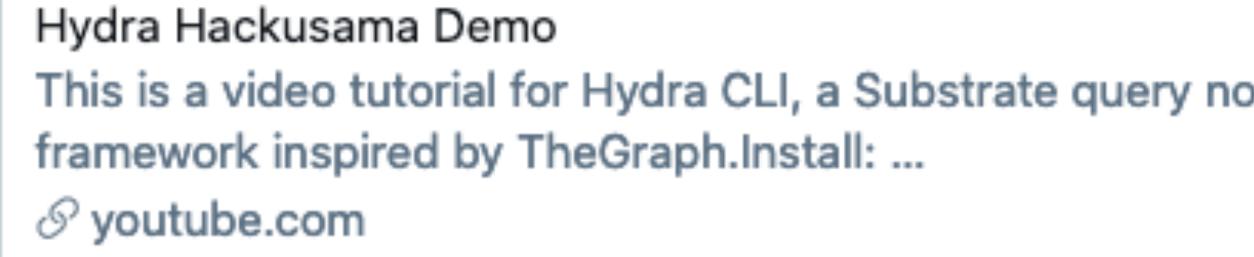
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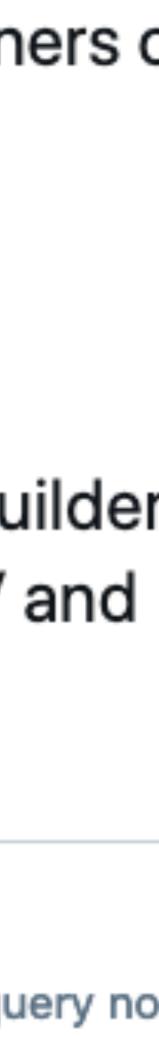
Oversett tweeten



### kusama @kusamanetwork

- The judges have finished evaluating and the winners of
- For the Open Hack category:
- In first place: Hydra, a GraphQL query node builder Output Content of the second strate of the secon

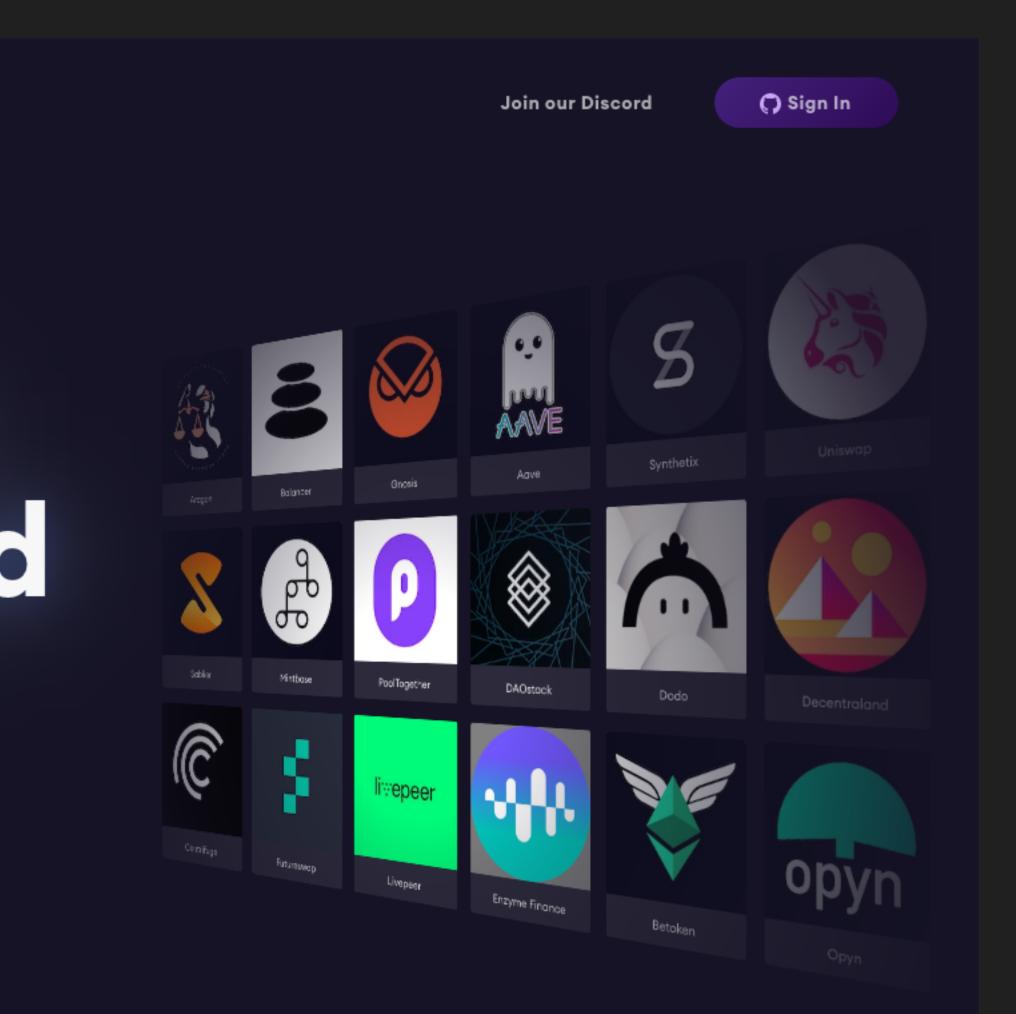




### 

The Graph is an indexing protocol for querying networks like Ethereum and IPFS. Anyone can build and publish open APIs, called subgraphs, making data easily accessible.

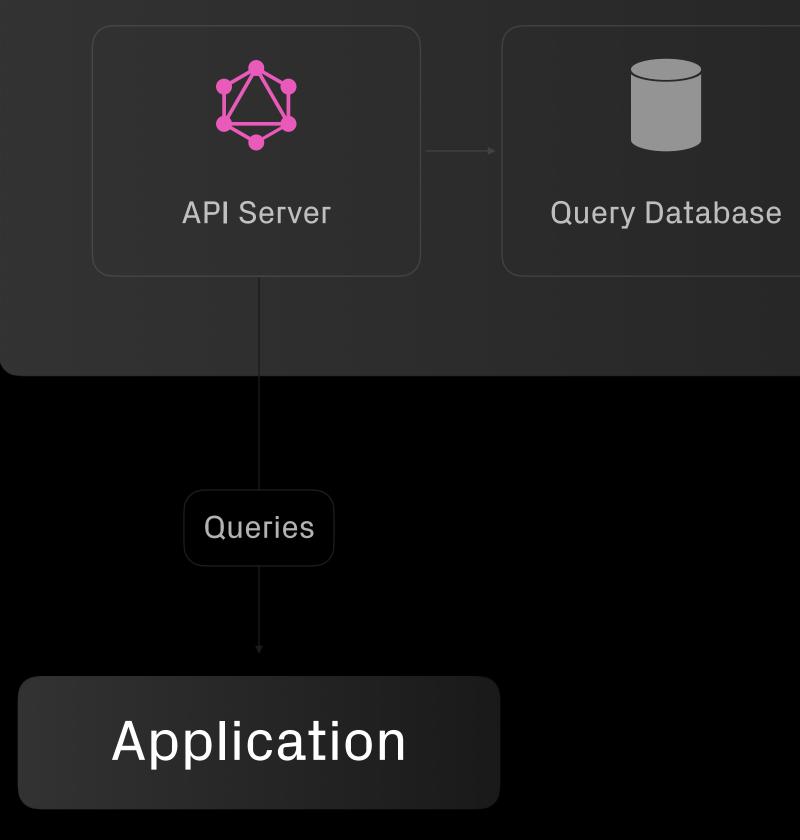
Explore Subgraphs



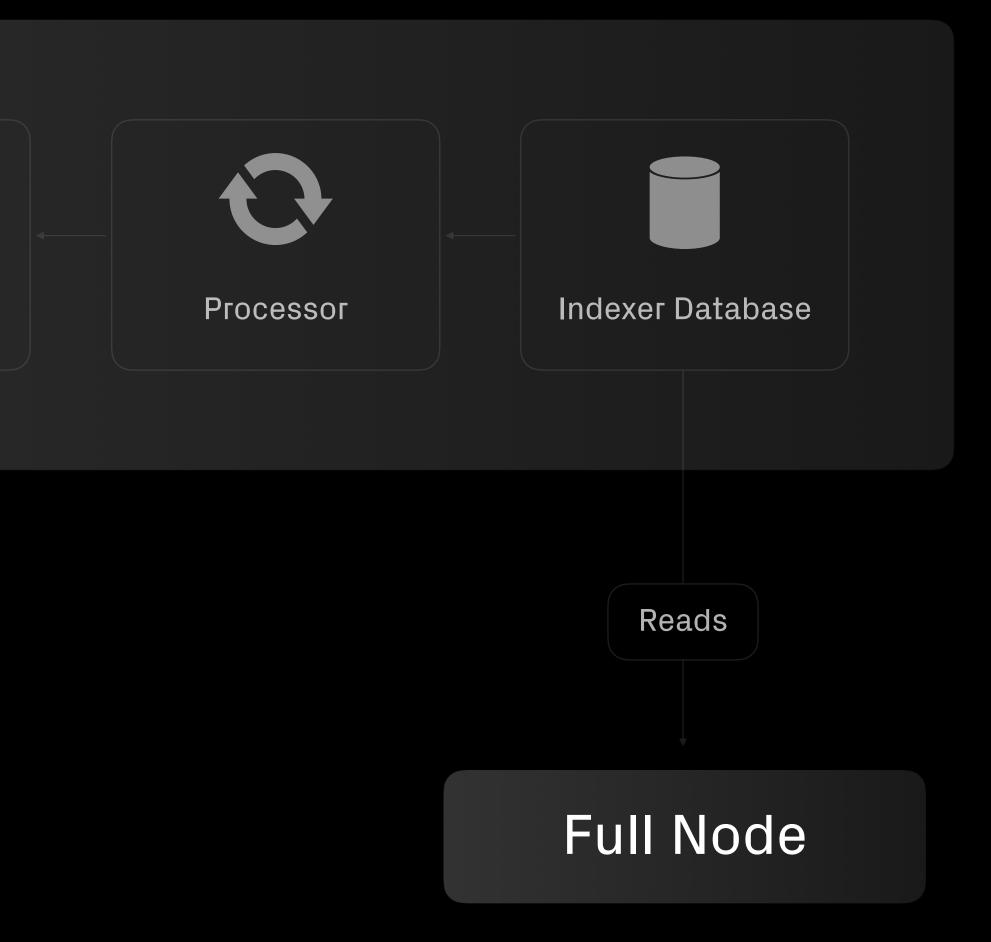
### Data Model

### Event/Tx Mappings

### Hydra Node



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	Joystream are formet			Betty -
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	ID: 120 Duration: 10 days : 24 min		<b>1</b> /10 <b>1</b> /10	Wichael_281
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### **New Specifications**





# v2 Storage & Distribution System

Applications with a business model.

- Separate storage & distributor roles.
- Council, DAOs and members can store.
- Partial replication.
- Reclaiming space.
- Flexible distribution policy.

### v2 Storage and Distribution System Specification #2224

bedeho opened this issue 27 days ago · 1 comment () Open



bedeho commented 27 days ago

### Background

The current Joystream network, as of the Sumer release, has an extremely limited system for storing and distributing data, both in terms of functionality and ability of the system to accommodate any kind of even limited scale of utilisation. This specification is intended to substantially improve upon these limitation by settling the organisation and function of the system at a level suitable for mainnet purposes. Importantly, this specification should be read in the context of the Gateway specification #2089, which is complementary in that it outlines an incentive model for the vast majority of expected load on distributors.

### Major Changes

The overall design philosophy of the system remains the same as before in the following respects

- Permissioned entry of of staked service providers.
- Discretionary slashing, not bound by cryptographic evidence.
- Chain holds index of data, service provider obligations and rations utilisation of the system.
- Publishers are not charged for the distribution cost of data.
- Single chain selected upload host for each data object

However the following major changes are introduced

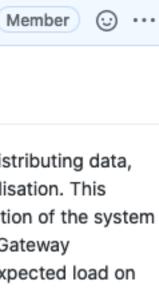
- Distinct roles for storage and distributing data.
- Storage system with redundancy and only partial replication in nodes.
- Distribution system with flexible policy space, allowing for CDN like organisation.
- Efficient deletion and ownership transfer of groups of data objects.
- On-chain host resolution metadata.
- Distributors are incentivised in the Gateway system: #2089

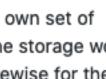
### Architecture

#### Working Groups and Roles

There are two working groups, the storage working group and the distribution working groups, each with its own set of workers and two separate leads, called the storage lead and distribution lead respectively. The workers in the storage working group are called storage providers, and operate dedicated nodes for this purpose, called storage nodes. Likewise for the distribution group there is *distribution providers* and *distribution nodes*.







# Gateways

Applications with a business model.

- Serve viewers on the web & app stores.
- Monetise by adds or charging your users.
- Pay for the bandwidth & content royalties for your users.

### Gateway Specification #2089

() Open bedeho opened this issue 8 days ago · 0 comments



bedeho commented 8 days ago

#### Document

This is a very rough specification of how gateways will work in Joystream, in particular the APIs, which hopefully should be conceptually clear enough to warrant implementation. It should be noted that this is a specification only because of its relatively high level of specificity, this should however not be mistaken to imply that these are immutable design and implementation decisions. This should should be taken as a concrete starting point for an overall approach, where many details may need to change.

### Background

- 1. Advertising is indispensable near term: Reaching a broad audience of content consumers in the near term, in a way which is economically sustainable, means that the system must have ways of capturing value that does not depend on consumers having a wallet and tokens. This value capture is required to cover the cost of the computing infrastructure, such as storage and queries, but also to entice content creators to publish and create content on the system. The only mechanism that satisfies this goal is some kind of advertising system.
- Advertising requires Sybil prevention: The most important technical and policy requirement of any advertising system is the ability to correctly distinguish genuine from fraudulent impressions.
- 3. Sybil prevention depends on app delivery: Sybil prevention is only really practical when the platform controls the delivery of the user facing experience. Such control enables detection and prevention of abusive user practices, for example by using techniques such as Captchas or email registration. As an example of the most blatant attack possible, anyone running a Joystream application could simply replace all the advertising endogenous to the Joystream system with their own integrations. A milder attack is just normal client side ad-blocking in browsers.
- Blockchains are isolated from web 2.0 app delivery: Asserting control over web 2.0 assets for distributing apps, such as
  - app store entries (phones, TVs, etc.)
  - ICANN domain names
  - desktop app certificates

is a major barrier for Blockchain systems. Alternative systems are being deployed, their adoption is likely to take a long time.

Conclusion: Delivery of apps must be a role for a sustainable way for Joystream to reach a broad consumer audience in a sustainable way in the near term.

### Idea

The idea for how to solve problem described is to couple advertising and app-delivery at the same layer, called a gateway, exogenous to the core Joystream protocol. This layer sits on top of the core services provided by the protocol, including content creation, and pays for utilisation of these services on behalf of its screened users. This incentivises gateway operator to properly internalise the cost of Sybils, and thus invest in screening them properly, because the gateway has to pay for the

... 😳 Member

# Channel Tokens & DAOs

Creator tokens for fundraising & revenue splits.

- Issue a token for your channel.
- Raise funds for your channel.
- Give governance and revenue split to token holders.

### Runtime DAOs #2068

() Open bedeho opened this issue on Jan 22 · 19 comments



bedeho commented on Jan 22 • edited 👻

### Background

Using tokens as a way to finance creative projects and also reward early evangelists and community members has been a lo standing idea in the crypto space, with attempts such as <u>Smart Media Tokens</u> and <u>TatianaCoin</u>. The idea is to turn a creative project into something where a community of token holds can vote on key governance decisions about how to manage the project, and possibly also receive a share of any value captured by the project.

### Goal

Introduce DAOs with their own governance token, in the form of a new runtime module daos, which can act in the Joystrea chain, primarily in the content directory & storage system at this point, but in the future they may act in any part of the syste where normal memberships can, so stand for council, make proposals and so on.

#### Requirements

- Must be implemented as a native runtime module.
- · There is no supported suitable asset protocol to use which supports minting new tokens over time so we must build it in
- Has to be purely event based, no timers, no iteration, because we want an unconstrained number of DAOs, each having an unconstrained number of stakeholders and proposals.

#### **Governance Token**

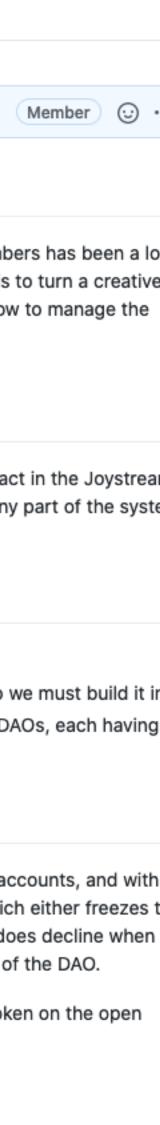
Each DAO has an associated governance token, which is a fungible asset controlled by normal substrate accounts, and with normal currency semantics. It has an issuance, and an *issuance policy*, set when the token is created, which either freezes i issuance upper bound, or which allows new tokens to be minted by the DAO. In either case the issuance does decline when tokens are burned. Tokens can also be locked for the purpose of participating in the governance process of the DAO.

In the v2 of these DAOs we will introduce the capability for DAOs to buy back and burn the governance token on the open market in exchange for JOY tokens in the treasury, which itself is described in the next section.

#### Metadata

All DAOs have the following metadata which aid

- An immutable handle.
- A mutable title.
- A avatar image.



# Crowdfunded Bounties

Incentivised independent funding for community goods.

- Anyone can create and fund.
- Creating & contributing is incentivised.
- Creator oracle judges outcome.

### Crowdfunded Bounties #1998

() Open bedeho opened this issue 24 days ago · 1 comment



bedeho commented 24 days ago

### Background

Currently, the only way to fund the production of goods that create benefits to a broad set of platform participants is through a financing proposal or discretionary spending by a working group lead out of the group budget. These processes incur the transaction costs of beneficiaries having to convince a number of external decision-makers, such as a council financing quorum, that this is a good idea. For smaller initiatives that ideally should start and finish sooner, or where they depend on knowledge or insight that is not as broadly shared, these processes become too costly.

### Proposal

Crowd funded bounties which allows a member, or the council, to crowd fund work on projects with a public benefit. The funding mechanism for the bounties attempts to facliate two forms of crowd funding:

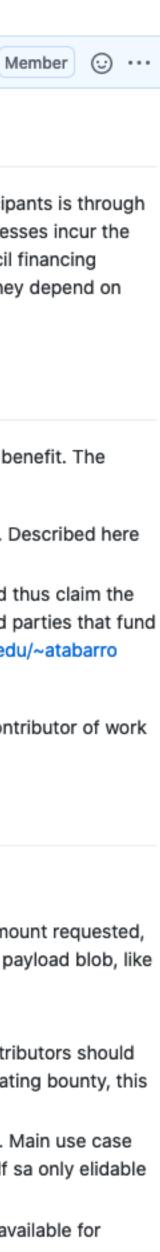
- Assurance Contract: It only triggers if some minimal quantity is raised, otherwise all funds are returned. Described here https://en.wikipedia.org/wiki/Assurance\_contract.
- Dominant Assurance Contract: The proposer is the only person who can submit a bounty solution and thus claim the raised funds, however, the proposer must put up a pool of funds which will be distributed among all third parties that fund the pool in the event that the minimum quantity is not raised. Described further here http://mason.gmu.edu/~atabarro /PrivateProvision.pdf.

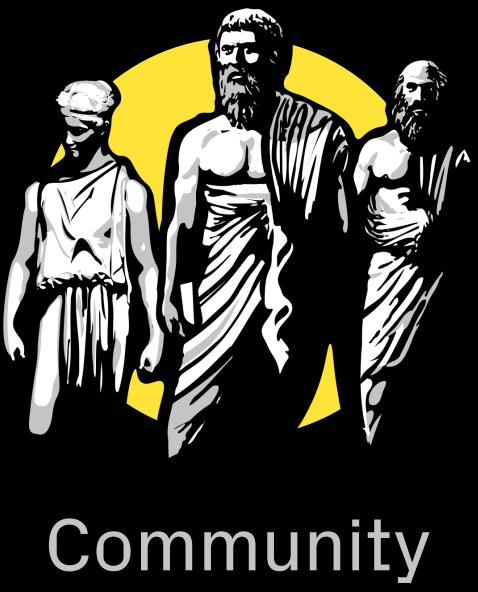
In either case, an oracle is required to judge how much of the collected funds should be paid to any given contributor of work on the bounty, and this will either be a pre-specified member, or the council iself.

#### **Bounty Creation**

Any member or the council can create a bounty by providing the following information.

- Metadata: A standardised structure document describing user facing information, for example a title, amount requested, deliverable, discovery metadata, link to forum etc. Is not stored in storage, chain only sees raw extrinsic payload blob, like rationales before.
- Oracle: Origin that will select winner(s), is either a given member or the council.
- Cherry: An mount of funding, possibly 0, provided by the creator which will be split among all other contributors should the min funding bound not be reached. If reached, cherry is returned to the creator. When council is creating bounty, this comes out of their budget, when a member does it, it comes from an account.
- Screened Entrants: The set of members who are allowed to submit their work, if not set, then it is open. Main use case for this is to model dominant assurance contract where member sets contribution cherry and him/herself sa only elidable worker.
- Minimum Amount: The minimum total quantity of funds, possibly 0, required for the bounty to become available for neonle to work on



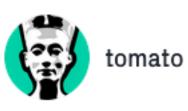






# Founding Members Inducted

### Current founding members 5



Total score 10000

Tokens allocated / projected 1.00% / 9.52%

nexusfallout

Total score 0

Tokens allocated / projected 0.20% / 0.00%



0



enjoythefood

Tokens allocated / projected 0.20% / 0.00%



Total score

5750

freakstatic

Tokens allocated / projected 0.30% / 5.48%



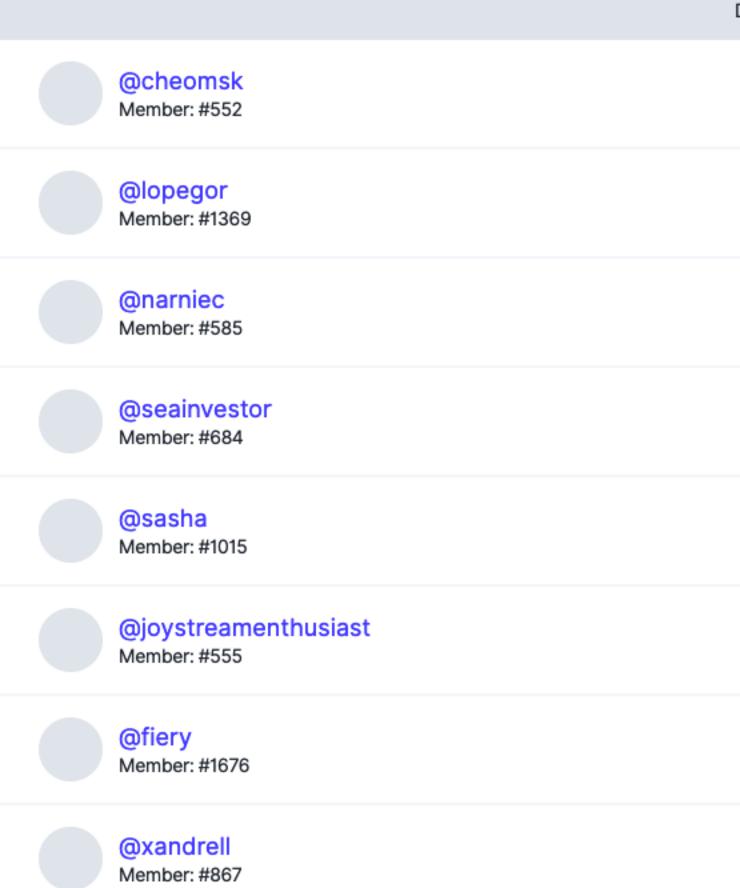
0

Tokens allocated / projected

0.20% / 0.00%



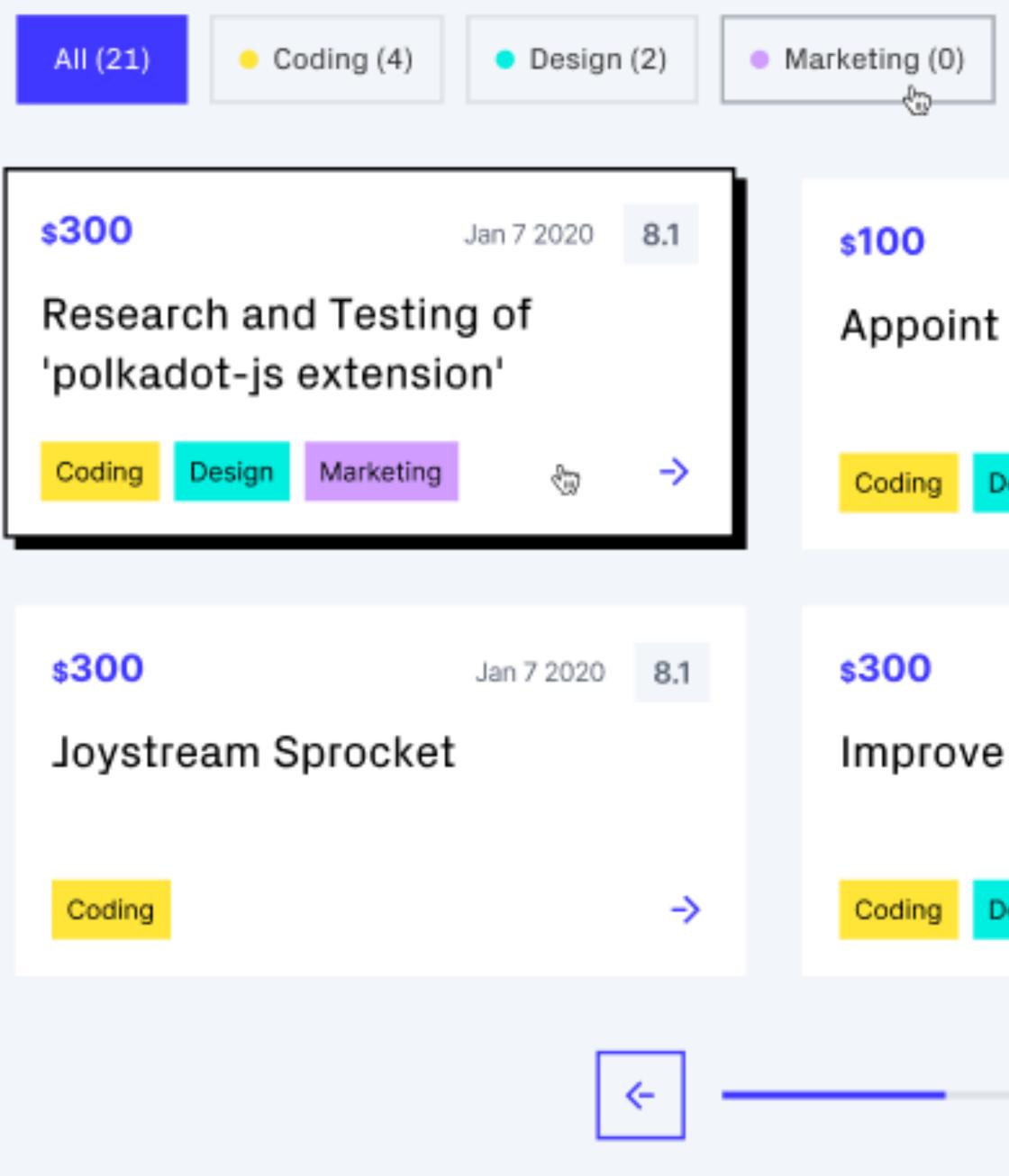
### Leaderboard



	Founding Members	Non-Founding Members
Direct Score	Referral Score	Total Score
5900	0	5900
5100	358	5458
3000	1523	4523
2150	2238	4388
3300	0	3300
2350	125	2475
2300	0	2300
2150	0	2150

# Bounty Program

A way for community members to earn cash and tokens solving valuable community tasks.



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## Roles



### **Content Creator**

19 run this role on Antioch

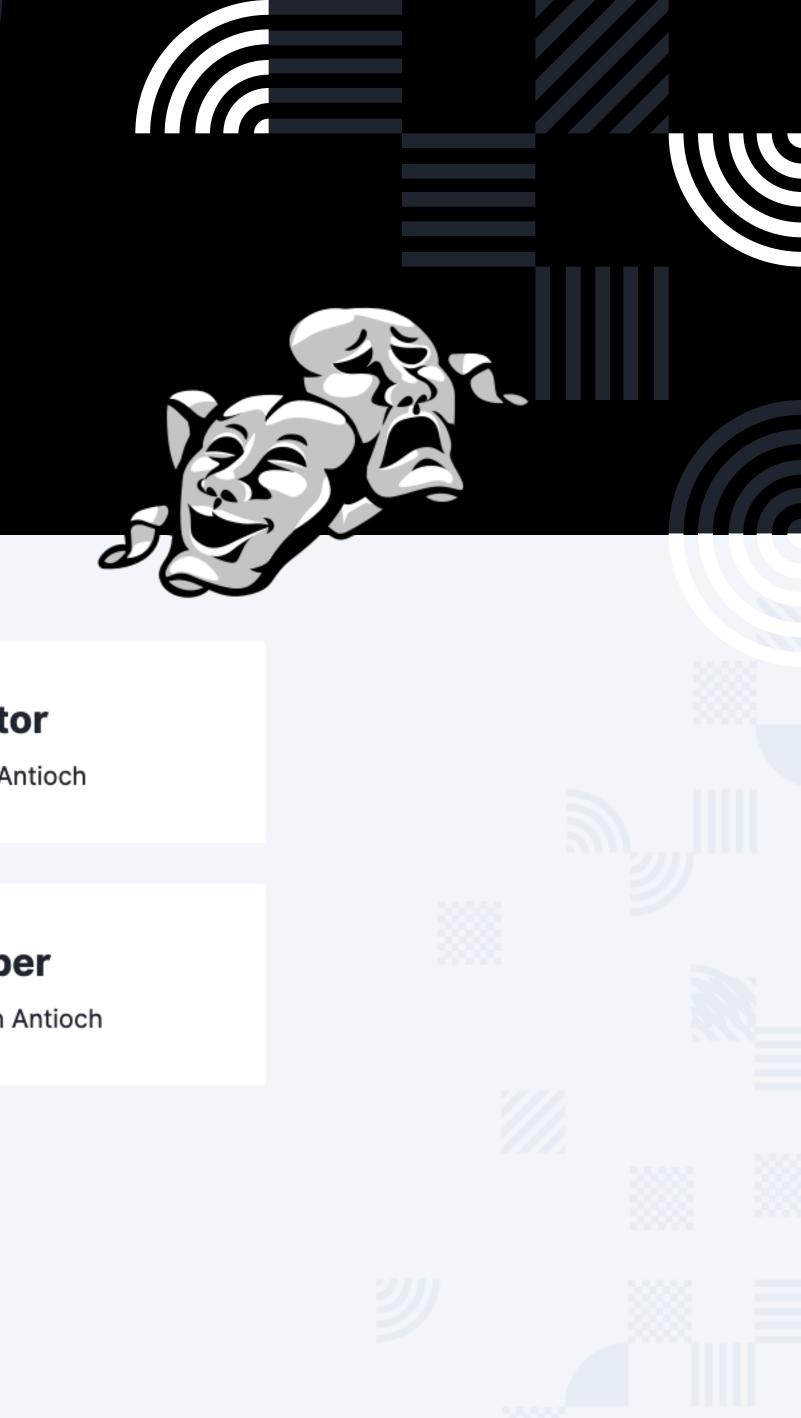


### Validator

18 run this role on Antioch



🚢 2 run this role on Antioch





### **Content Curator**

1 run this role on Antioch



### **Council Member**

12 run this role on Antioch