



# DAO Tools & Infrastructure

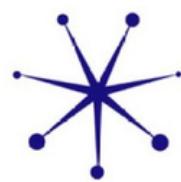
Voting  
on/off  
chain

Treasury  
\$DAO  
\$USDC  
\$ETH

subDAOs  
Guilds

Payroll

**MAKING SENSE OUT OF A CHAOTIC  
AND FRAGMENTED LANDSCAPE**



# Today's Agenda

1 Introduction & Background

2 What does a DAO organization look like?

3 The LANDSCAPE

4 Conclude with some Real Life Demo's

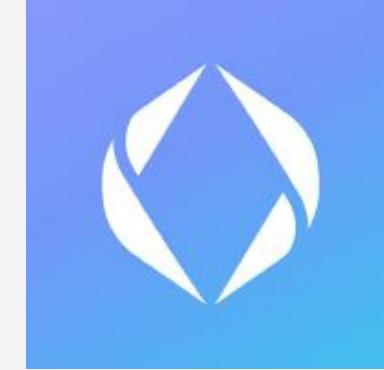
# Introduction

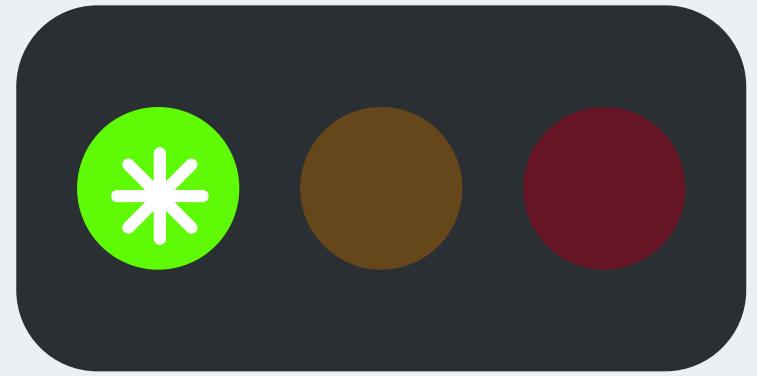
Chris Adams

Background in TradFi

Dev Path 2020:

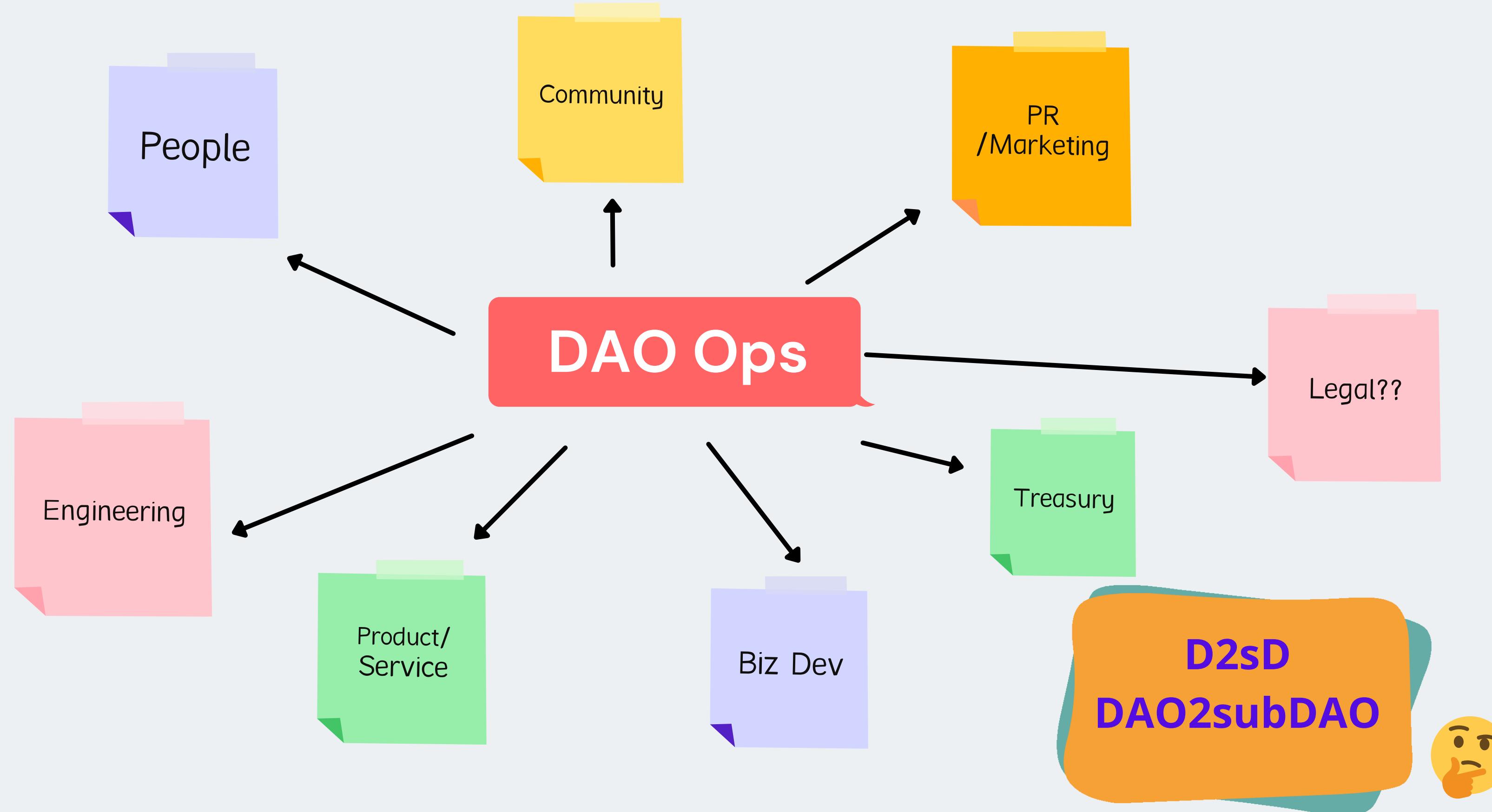
- Chainshot Bootcamp
- DeveloperDAO
  - Governance Guild
  - Coordinate Working Team
- ENS DAO
- LexDAO
- Ricochet DAO
- Raid Guild
  - Cohort 3



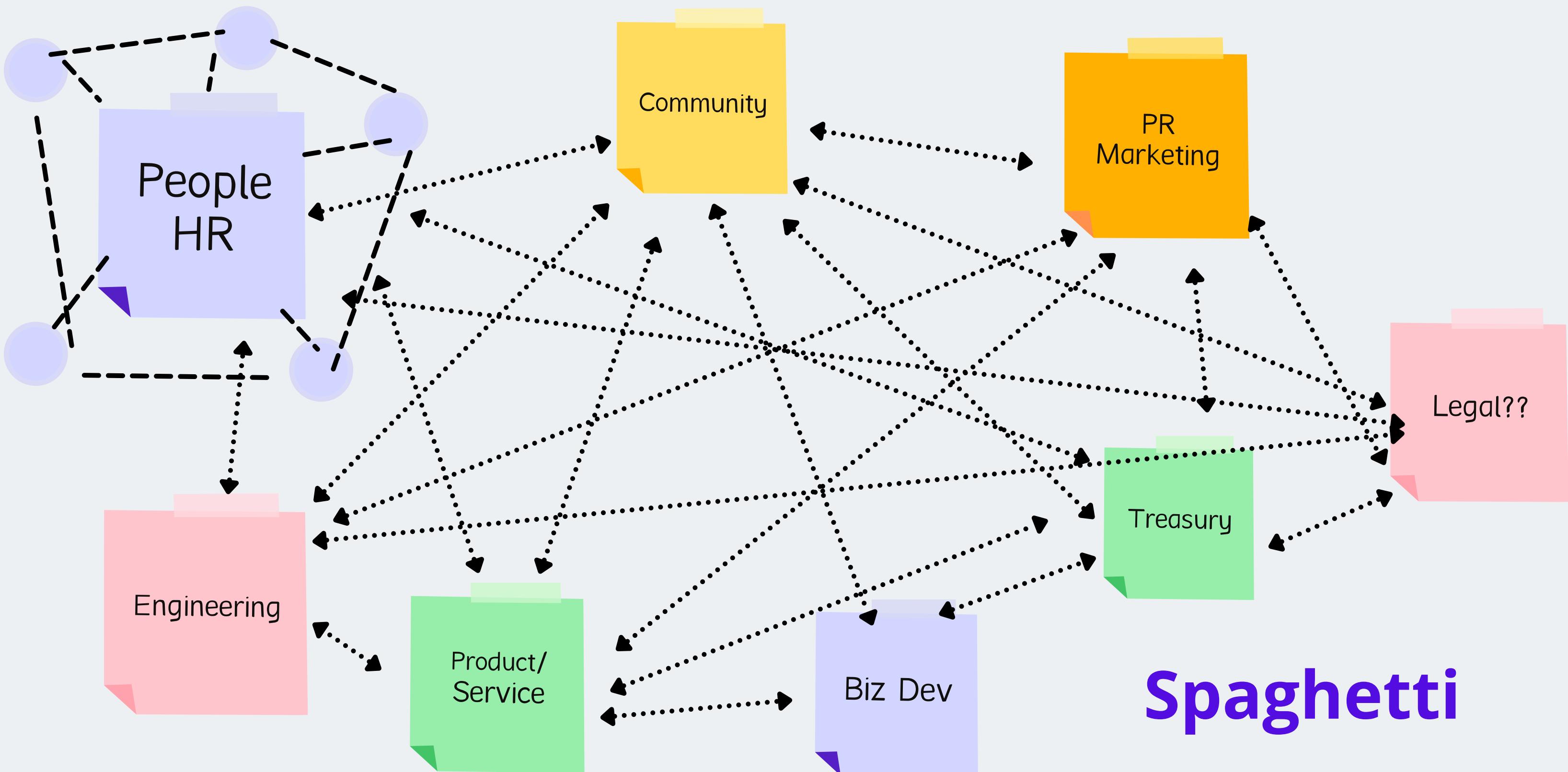


DAO Ops

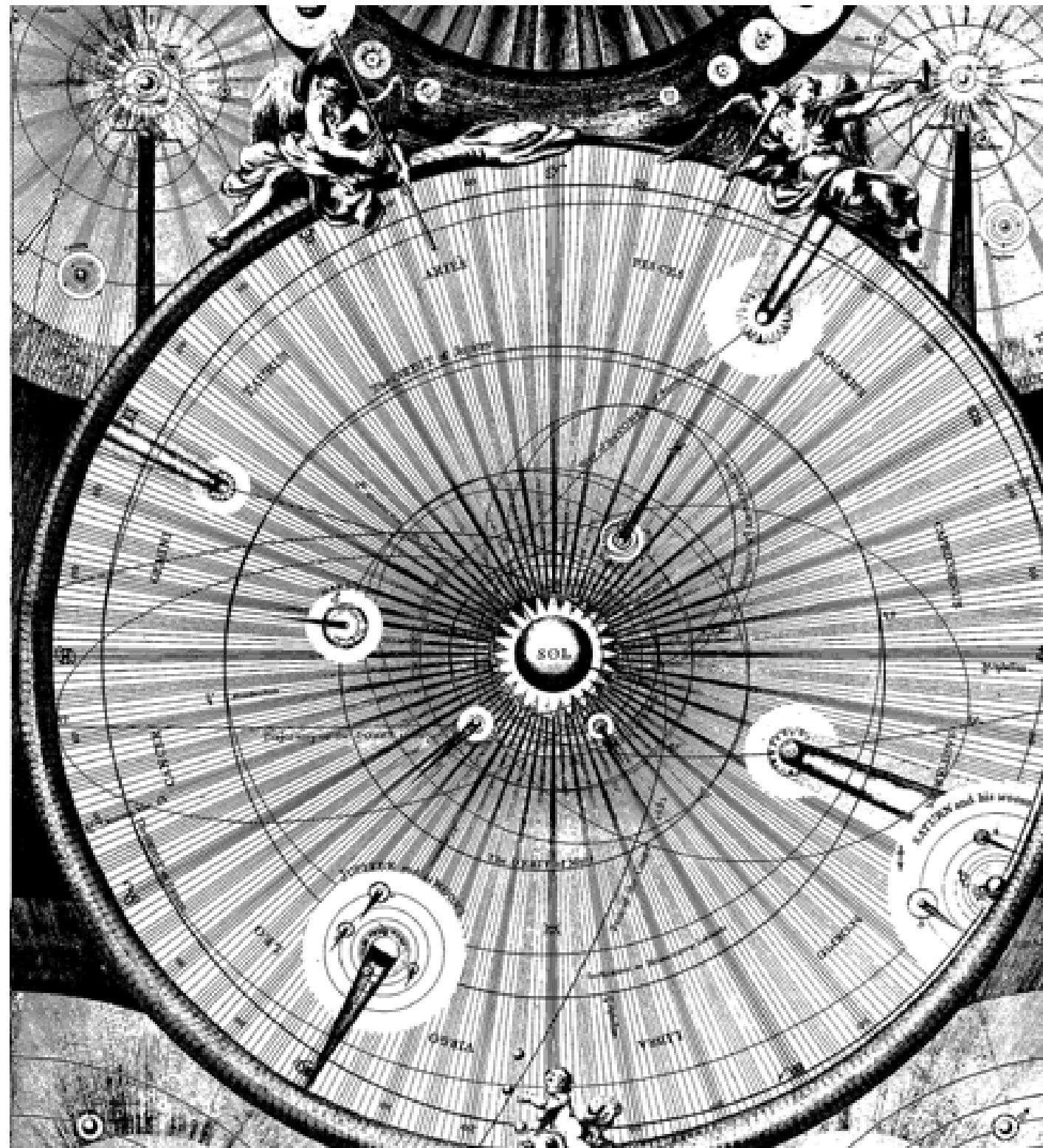
# DAOs and subDAOs



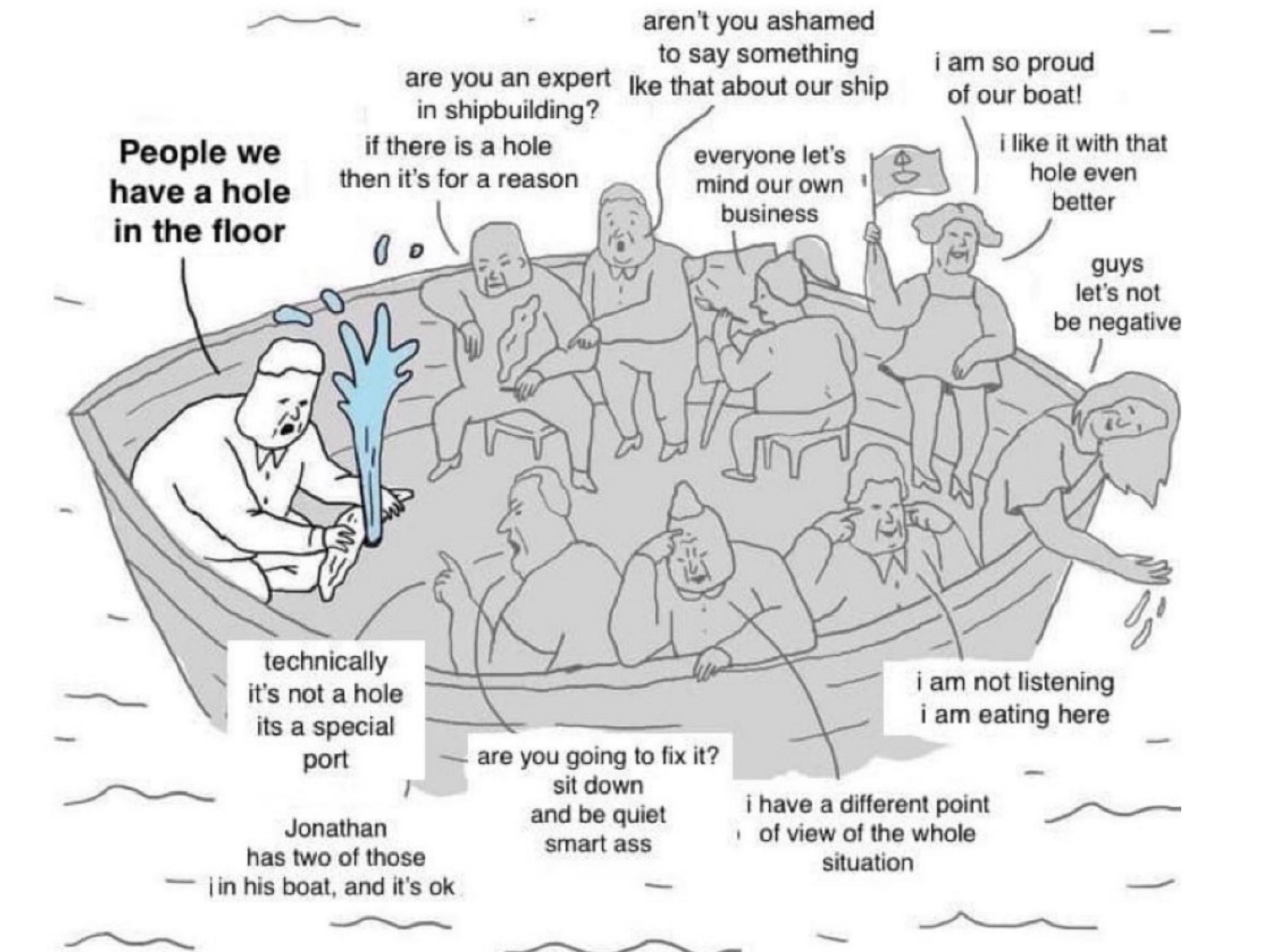
# subDAOs to subDAOs



# Current state of DAOs?



Org Map?



Watercooler talks or HR department? ★

# Capital Flows

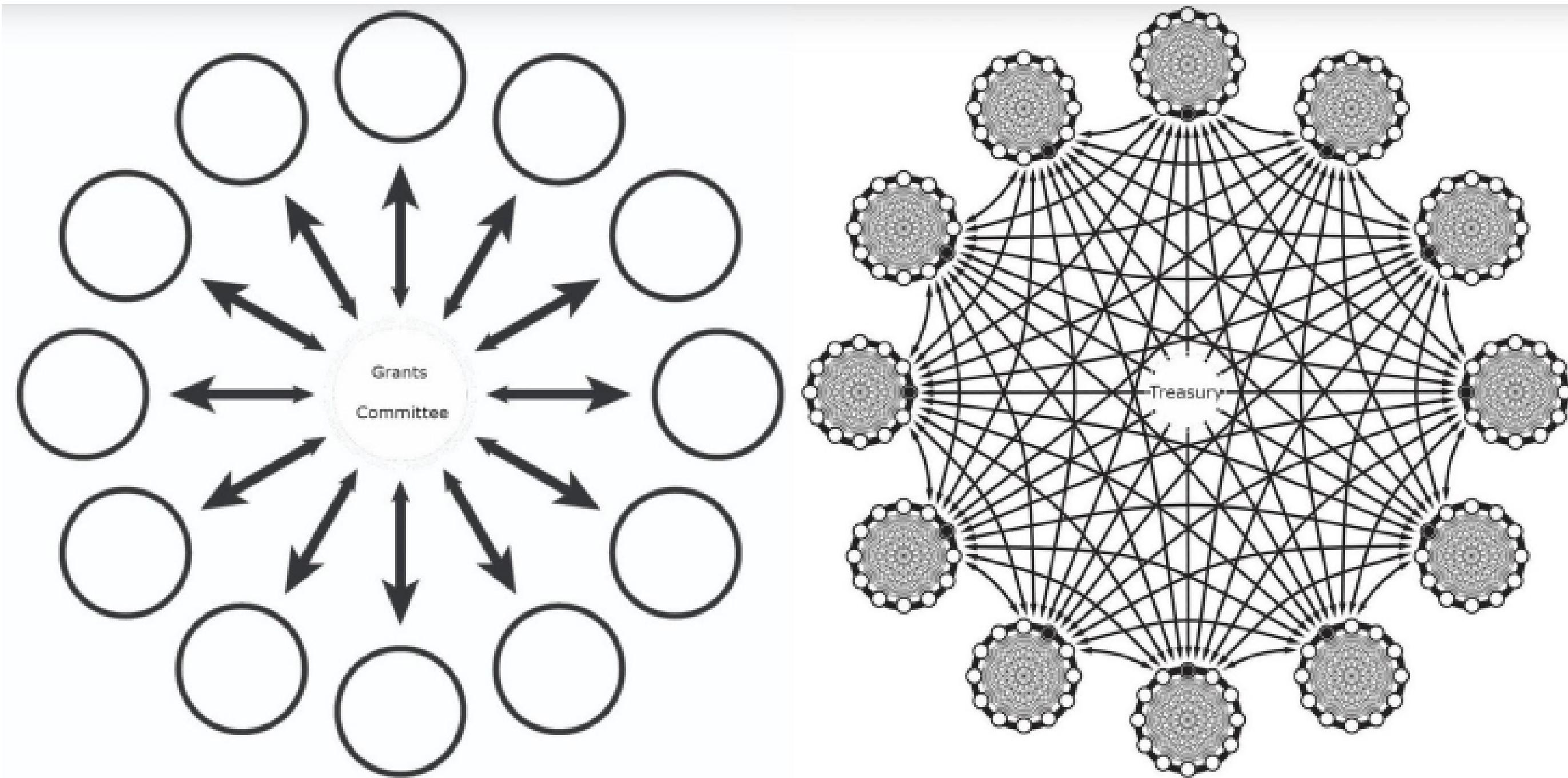


Figure 1: Centralized to Decentralized Capital Flows (each line represents flows)

- Graphic from Bankless DAO



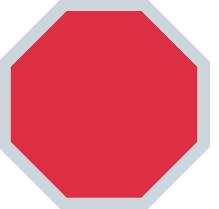
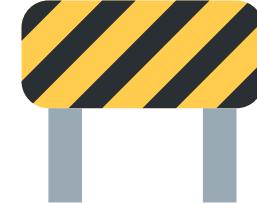
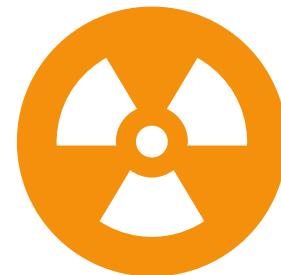
DAOS ARE HEADLESS

DAOS ARE THE NEXT  
SOCIAL NETWORK

DAOS BECOME TOKENIZED  
COMMUNITIES?



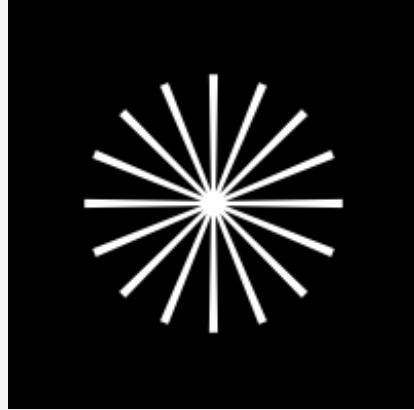
# DAO PROBLEMS

- COORDINATION AND AUTOMATION 
- TREASURY MANAGEMENT 
- LACK OF INFRASTRUCTURE 
- SMART CONTRACT AND SUSTAINABILITY RISKS 



# Launch a DAO

## Frameworks





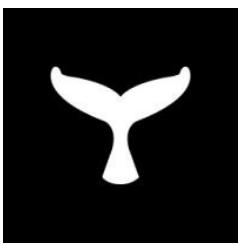
- Aragon Govern
  - Platform to launch your DAO and token
  - System of Optimistic Governance Agreements
  - Whitelist, time delay of transactions, collateral, etc
- Aragon Voice
  - Creating and managing proposals and voting in a decentralized, cost-effective, and secure manner
- Aragon Court
  - Recourse for last-resort disputes





- OG - founded in 2014
- Completed its private beta in February 2021 and final release in November 2021
- Create a Colony (DAO) - has own Ethereum address
- Create or use existing ERC20 native token
- Comprehensive framework for DAOs that is completely decentralized, trust-less, and 100% open source.
- **Reputation:** Users are awarded influence in proportion to merit. Every time a contributor gets paid in a colony's native token, they earn a reputation. That reputation gives them power to stake on motions, and vote in disputes. Reputation decays over time.
- **Gas-less transactions:** Colony runs on Gnosis Chain (xDai), making it very cheap to use as each transaction costs a fraction of a cent. In the near future, Colony will pay for all gas through so-called Meta-transactions.
- **Lazy consensus:** Colony gives users the 'lazy consensus' mechanism which means that they need to vote only if there is any actual disagreement.



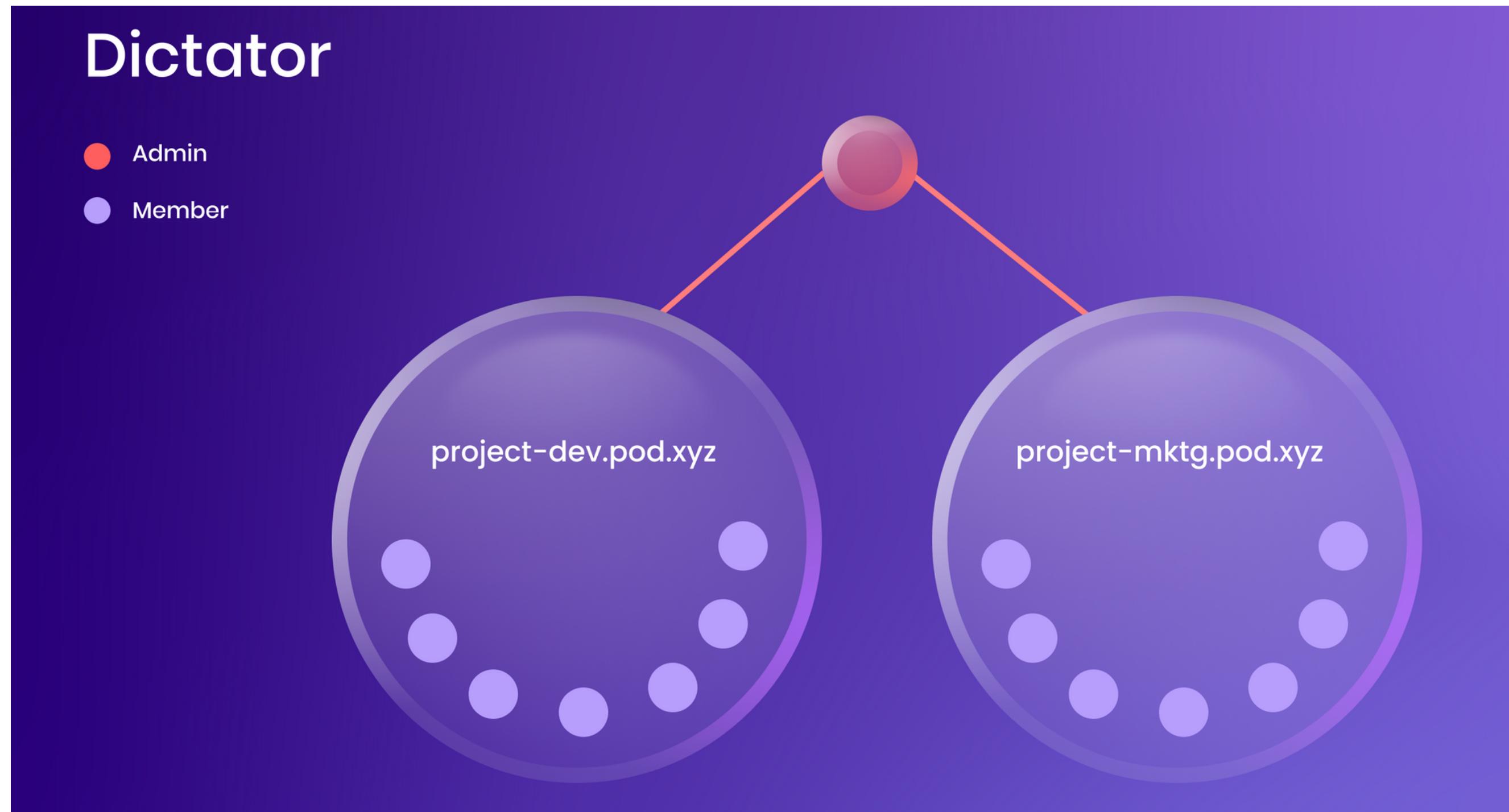


# Orca Protocol

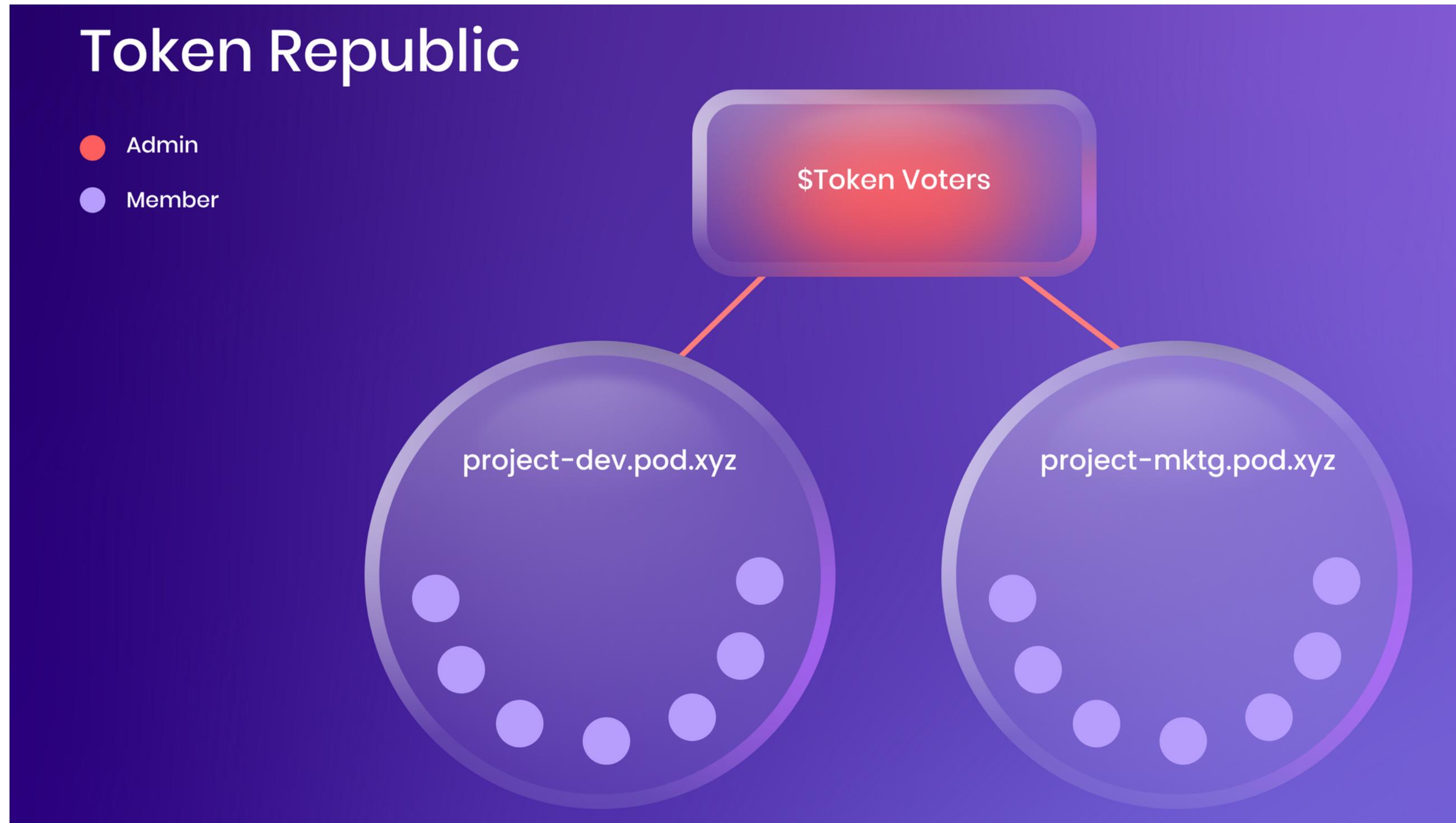
- Pods are guilds which have their own Gnosis multi-sig wallet that is controlled by the members of the pod. Basically subDAOs within DAOs.
- To be a member of the pod, you must hold a NFT (ERC1155) token
- Each pod registered with the Ethereum Name Service, which servers as your pod URL.
- Two roles associated with a pod:
  - **Admins** - landlord. These can be admins of other pods. Admins can be a smart contract
  - **Members** - Each has same amount of power to enact change.
- Advantages:
  - Increased transparency
  - More flexibility
  - Speed and decisiveness
  - Optimized workflows



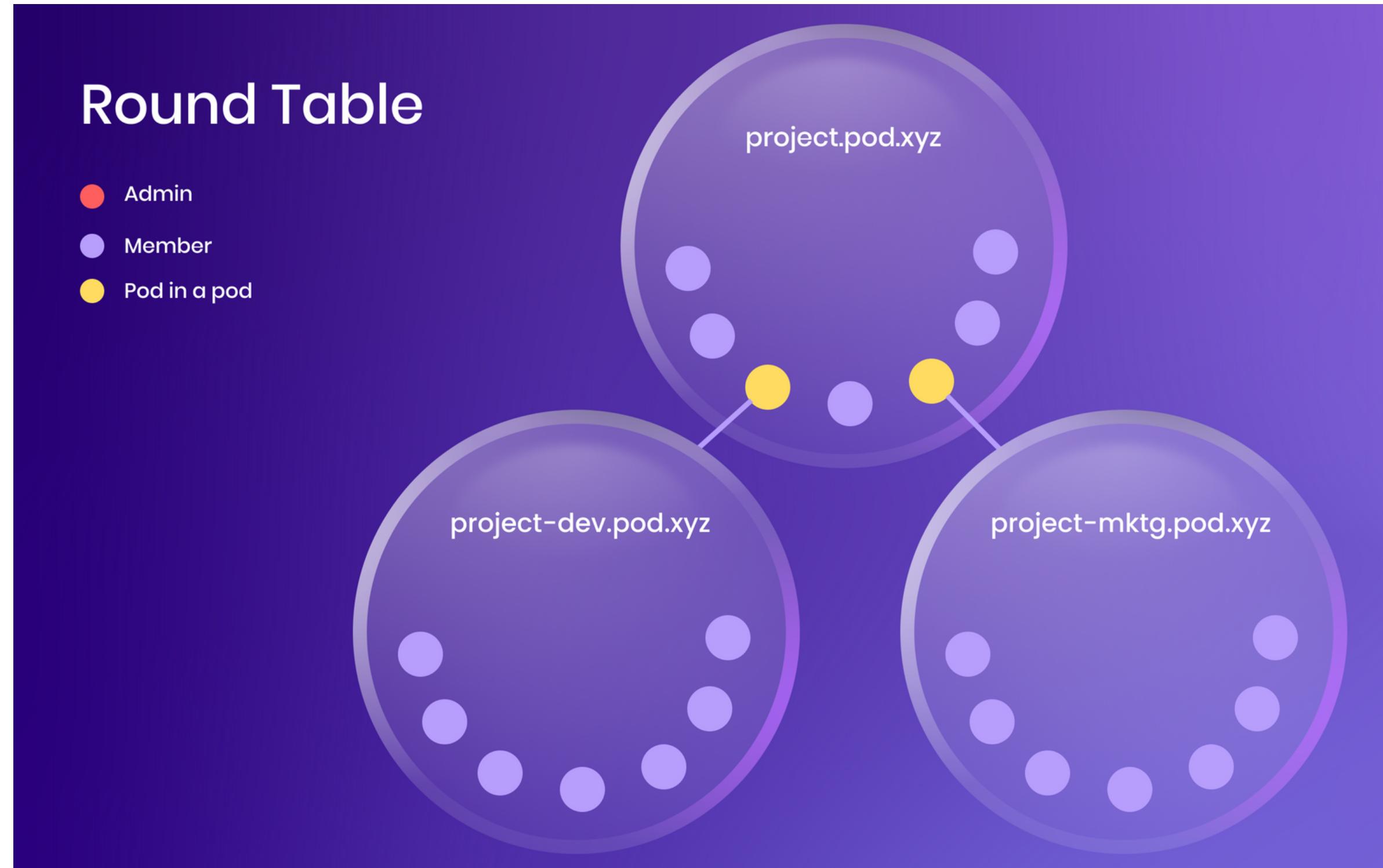
- The Dictator model is one where a person is serving as admin and has control (but does not necessarily sit on as a member) of the pods in your organization.
- This individual could be an Ops/Governance/Community lead or a trusted individual tasked with supporting administrative duties of the pods.



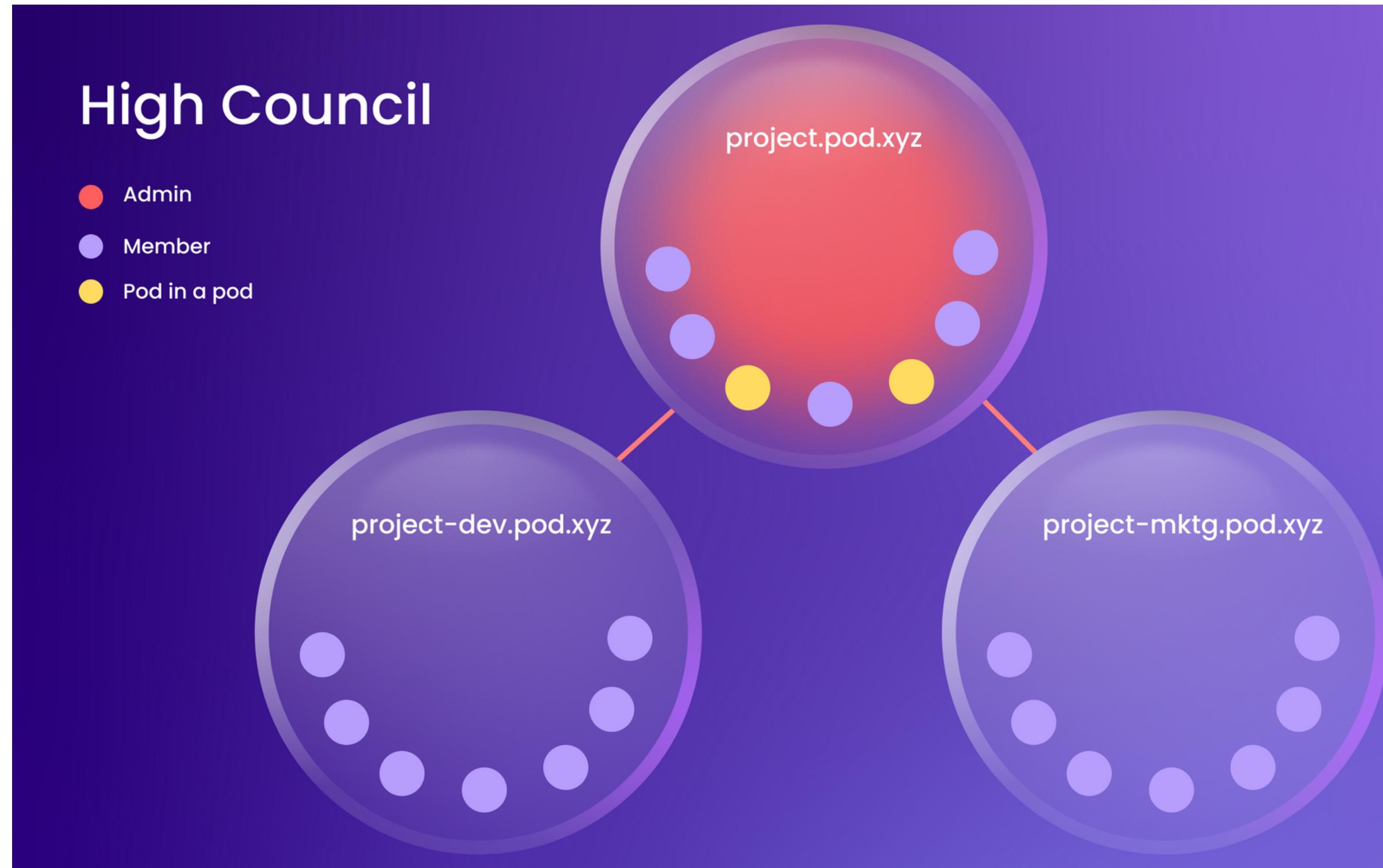
- The Token Republic model is one where token holders serve as decision makers for membership and asset management of your pods.
- The decisions made by token holders would be executed by a smart contract that serves as the technical admin of your pods.



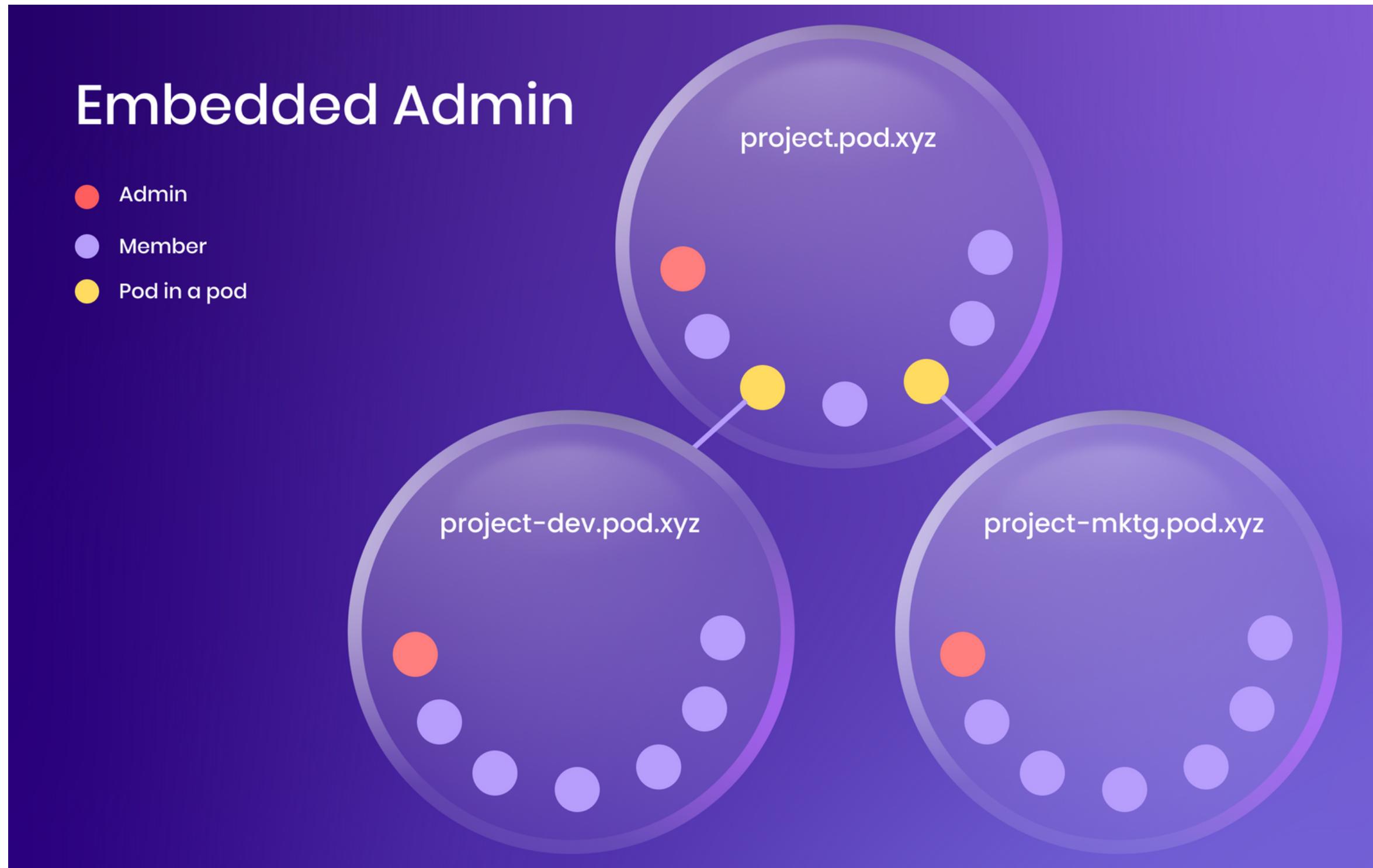
- The Round Table model is one where there are no admins anywhere within your pods or broader organization.
- All decisions regarding membership management, asset management and membership rules will require a proposal and vote.



- The High Council model is one a pod of individuals serves as the admins and supporting team for the rest of the organization.
- As an example, The High Council could be a group of elected stewards responsible for supporting the working groups of the organization.
- They have power to unilaterally add and remove members, manage assets and membership requirements.



- The Embedded Admins model is one where each pod has a pod member that also serves as the admin of the pod.
- These could be trusted individuals or elected stewards that have been granted elevated rights to quickly manage memberships, assets and membership rules.





- No code platform for launching and running a DAO. Based on the open source Moloch DAO platform.
- To create your own DAO, you "Summon" a new DAO
- Have a bank vault to hold ERC-20 and ERC-721s
- Minion Vaults enable things such as ENS, managing treasury in Defi, collecting NFTs, etc.
- Shares - Voting rights for members
- Loot - Non-voting shares in a DAO
- Ragequit - the ability to leave the DAO with your percent of funds/ownership in the DAO
- GuildKick - proposal to remove a member but converting their shares to loot
- Jailed - a Guildkicked member becomes "jailed" and CANNOT rejoin
- RageKick - After a member is Guildkicked, anyone can ragekick that member





- Launch Web3 investment clubs
- Transforms any wallet into a Investment DAO
- Built-in compliance tools
- These clubs can invest on tokens and NFTs, as well as off-chain startups and assets
- Have legal entities, bank accounts, K1's, etc.

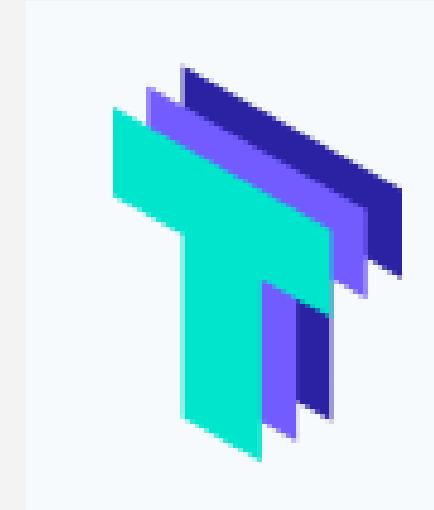


# Governance

## Voting



## Delegating



## Research





- Governor acts as a one-stop shop governance platform to vote, delegate, track proposals and learn about governance.
- Information to governance and voting is very fragmented (Snapshot, On-Chain Voting Portals, Discourse, Reddit, Twitter, Discord, Telegram, etc)
- Aggregating and contextualizing governance data (both on-chain and off-chain)
- Two main categories:
  - Proposal Tracker
  - Proposal
- Messari also provides a "Sentiment Gauge" to proposals.





# Snapshot

- Decentralized open-source voting system
- Anyone can create a proposal or vote on an existing one with a simple signature stored on IPFS rather than an on-chain transaction
- No gas cost and process is off-chain
- Many voting systems
  - Single choice, Approval, Quadratic...
- Several voting strategies to calculate results





# Boardroom

- A governance framework-agnostic interface
- Standardize actions like voting, delegating and proposals
- Tools such as discussions boards, calendars, directories and leaderboards.
- Works with most governance frameworks



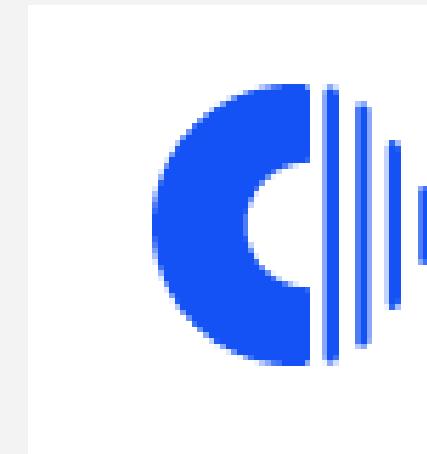
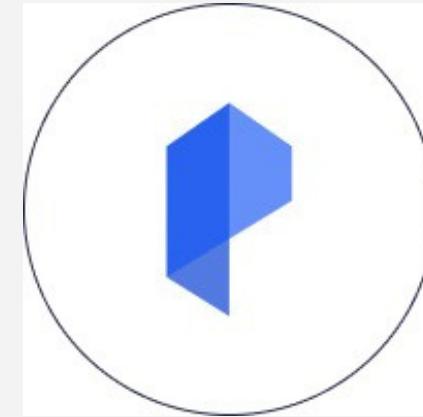
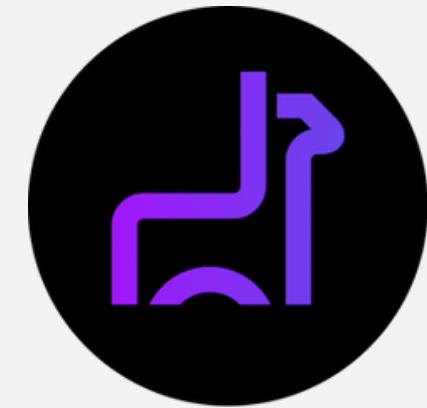


- User owned governance
- Review on chain governance information
- Voting dashboard
- Governance tooling
- Research and Analysis
- You can delegate votes, vote on an active proposal
- Only works with Compound or OpenZepplin frameworks



## Treasury Management

Billion+  
Dollar  
Treasuries



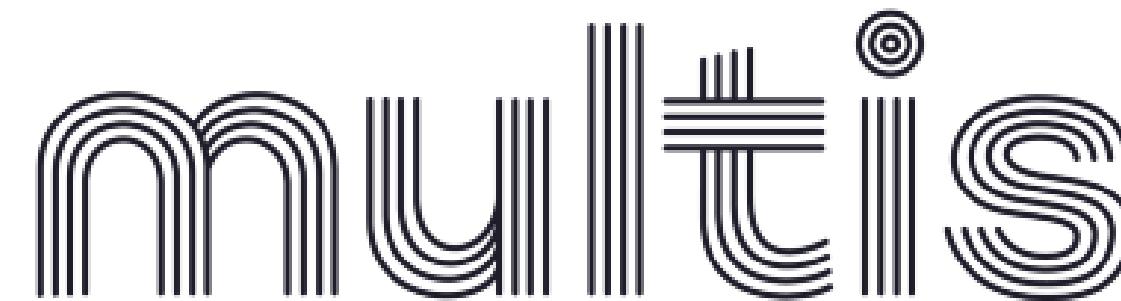
Gnosis Safe





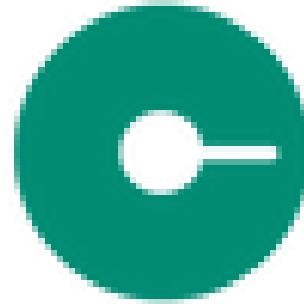
- Utilizes Gnosis Safe multi-sig wallet and infrastructure
- A dashboard for payroll and asset management
- Manage people and payrolls
- Make single or mass payments
- Tools to scale DAO operations and empower DAO contributors





- Fork of Gnosis
- Used as a business/corporate wallet
- Swap crypto with USD for over 700 pairs across multiple DEXs.
- On and off ramps to USD banking accounts
- Get debit cards for employees





# Gnosis Safe

- The REAL OG multi-sig wallet
- Many protocols built (or forked) on top of Gnosis
- Has built in modules
- Gnosis guild Zodiac pack





- Uses Gnosis safe
- Set up accounts for an individual, company or DAO
- Manage people, multi-sig, assets, transfers and mass payouts

Membership & Gating

Roles

Collab.Land

Social

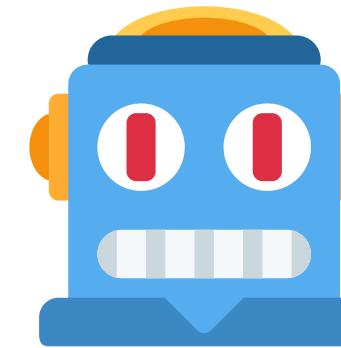
Gating





- Open source protocol on Ethereum that is community governed
- Streamline membership benefits for online communities
- Token-gating and ticketing
- Used with newsletters, publishing and even physical world systems (think transportation)
- API and integration with many apps.





- Collab.Land is a Discord bot that manages token-gated channels and roles
- Collab.Land uses signed messages to link a Discord account to an Ethereum address, verifying that the Discord user owns the account that they say they do.
- Once a user is verified as owning the required digital asset(s) for roles and channels within a discord, Collab.Land automatically grants them access.





- Used in Discord and Telegram
- Set these requirements:
  - Hold a token
  - Hold a NFT
  - Whitelist
  - Unlock Protocol
  - POAP
  - JuiceBox
  - Snapshot Strategy
  - Mirror Edition



# Collaboration & Rewarding





- Allows DAO members to choose who they would like to financially compensate for their work.
- Their 'Map' tool reveals which contributors and types of work are most valued by the community.
- Each member receives a fixed amount of GIVE Tokens and it's up to each individual to choose who to give them to within their 'Circle'
- Members provide a description in their profile of what they've been working on during the current 'Epoch'
- At the end of each Epoch, the GIVE tokens are converted to the DAO tokens.





- SourceCred maps all participants and contributions in a graph, illustrating how contributions and participants in a project are connected to each other
- Each contribution a participant makes is represented as a separate “node” in this graph
- This data is used to create a Cred Score for each node using a modified PageRank algorithm. The DAO decides which contributions will “mint” Cred, making them a source of new Cred

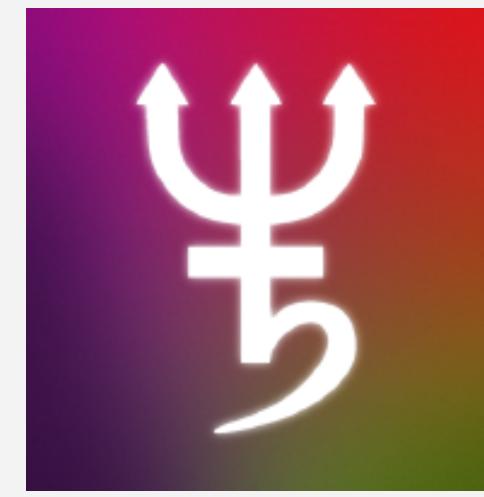
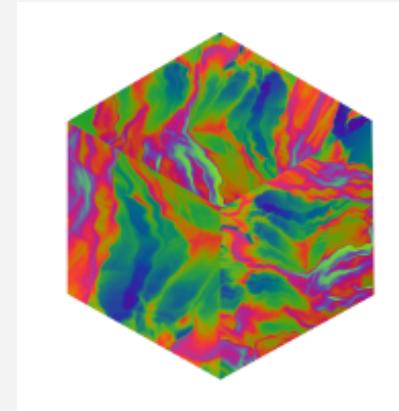


Project Management

Let's  
Go  
Demo!

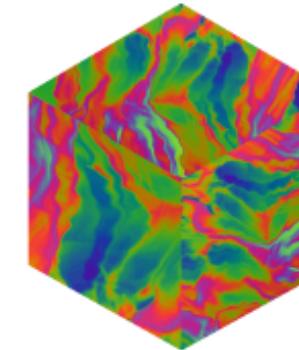


# Legal



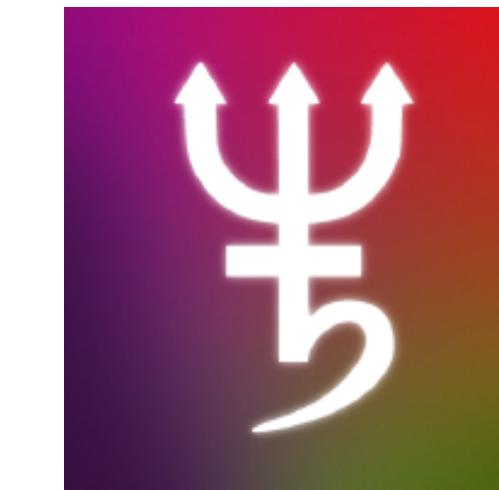


OPENLAW



- Formed out of ConsenSys AG
- Developer protocol tools and APIs for legal smart contracts
- OpenLaw allows users to model entire or partial legal agreements using smart contracts, decreasing the cost and friction of generating and securing legal agreements.
- Have introduced the **Tribute DAO** Framework in 2021
- Tribute contracts are a new modular DAO framework:
  - inspired by Moloch smart contracts
  - Implemented on optimistic rollups
  - Customizable and upgradable
  - Integrated with Snapshot
- Still in beta and not audited yet, but very impressive.





- LexDAO is a membership based legal DAO
- Non-profit association of legal engineering professionals
- mission is to research, develop and evangelize first-class legal methods and blockchain protocols that secure rules and promises with code rather than trust.
- Just launched a new KILLER app called Kali:
  - You can deploy AND deisgn a legal structure on Optimism in seconds
  - Social, Investment club or a company
  - Based on Moloch DAO and Compound governance



# What entity type do you want?

Select an option



Select an option

[Series LLC \(formed instantly!\)](#)

[Delaware LLC \(est. 1-2 weeks\)](#)

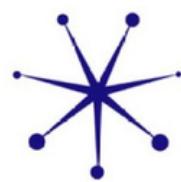
[Wyoming LLC \(est. 1-2 weeks\)](#)

[Delaware Unincorporated Nonprofit Association \(formed instantly!\)](#)

[Swiss Verein \(est. 1-2 weeks\)](#)

[Custom Entity Type \(est. TBD\)](#)





# Summary

Rapidly  
Changing

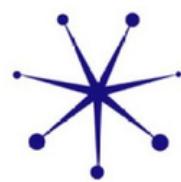
"Tooling"  
almost feels  
like it's at a  
burned out  
stage

The best is yet  
to be  
developed,  
that's my  
opinion!

*By tomorrow,  
there will be 5  
more new  
tooling projects*



DAO Camp



**Thank you for  
your time!**

**WAGMI!**