

Overview



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- 1. Overview
- What is a DAO?
- DAO vs Traditional Organisation
- 2. Core Parts of a DAO
- Community
- Governance
- Treasury
- 3. How DAOs become DAOs
- BitDAO
- Investing in a Startup
- Token Vesting
- Liquidation of Investments

4. Taxonomy of DAOs



- There is no real consensus yet what how a Decentralized Autonomous Organization (DAO) is defined but the following definitions can be used as a starting point.
 - Decentralized Autonomous Organizations are trustless organizations that automate transactions, operations, and decisions without a trusted third party [Wang].
 - A DAO is a system in which storage and transaction of value and notary (voting) functions can be designed, organized, recorded, and archived and where data and actions are recorded and autonomously executed in a decentralized way [Rikken].
 - DAOs are non-hierarchical organizations that perform and record routine tasks on a peer-to-peer, cryptographically secure, public network, and rely on the voluntary contributions of their internal stakeholders to operate, manage, and evolve the organization through a democratic consultation process [Hsieh].

DAO vs. Traditional Organization



DAO	A traditional organization
Usually flat, and fully democratized.	Usually hierarchical.
Voting required by members for any changes to be implemented.	Depending on structure, changes can be demanded from a sole party, or voting may be offered.
Votes tallied, and outcome implemented automatically without trusted intermediary.	If voting allowed, votes are tallied internally, and outcome of voting must be handled manually.
Services offered are handled automatically in a decentralized manner (for example distribution of philanthropic funds).	Requires human handling, or centrally controlled automation, prone to manipulation.
All activity is transparent and fully public.	Activity is typically private, and limited to the public.

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What constitutes a DAO?

Core Parts of a DAO







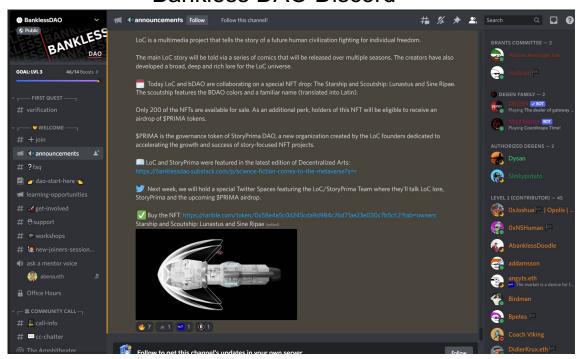


DAO Community

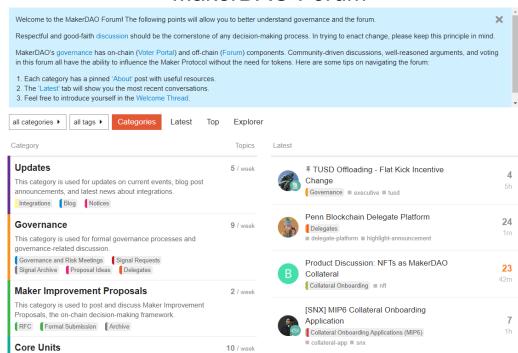


- Most, if not all, communication in DAOs is done on Discord channels or forums.
- People are the core of every DAO

Bankless DAO Discord



MakerDAO Forum



DAO Governance

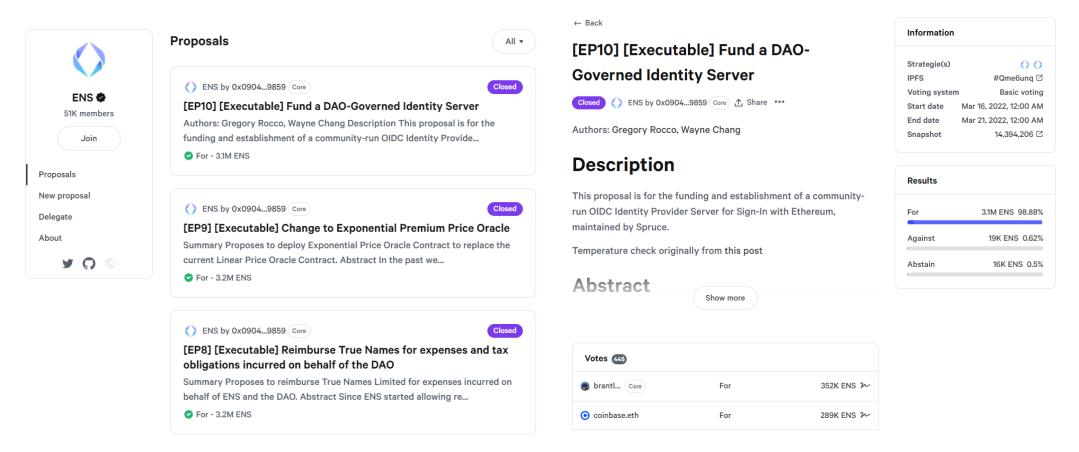


- The Members of the DAOs decide what to do next
 - Vote for new projects
 - Vote for compensation of contributors
 - Vote for investment possibilities
 - etc...
- Members can bring up proposals that contain a call to action for the DAO
- Members vote via Tokens (ERC20, ERC721, ERC1155)
- Voting can be off-chain or fully on-chain.
- Execution of governance proposals can be done manually by the members or automatic by smart contracts

DAO Governance: Off-Chain Snapshot Voting



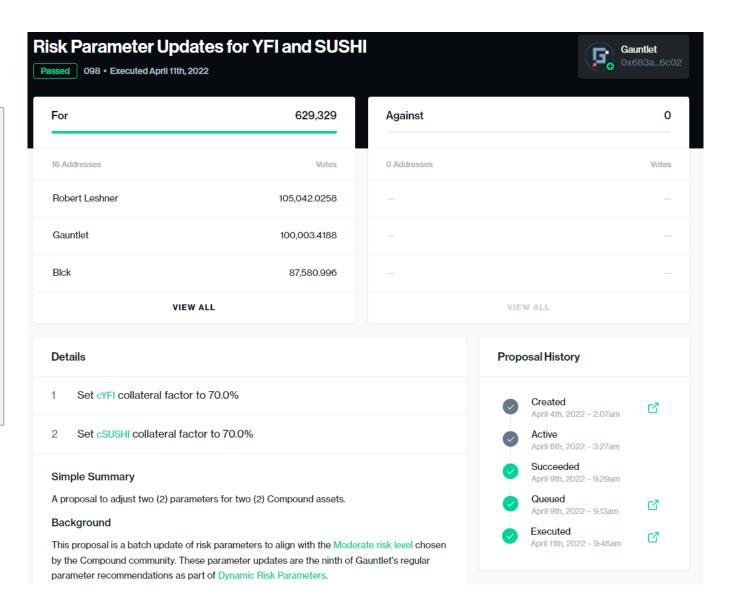
- A snapshot of the token distribution is taken on proposal creation.
- Token holders can vote for a specific time with their tokens by signing a vote and uploading it to IPFS.
- The vote is cryptographically secure but has to be executed manually by the treasury multi-signature holders.



DAO Governance: On-Chain Voting



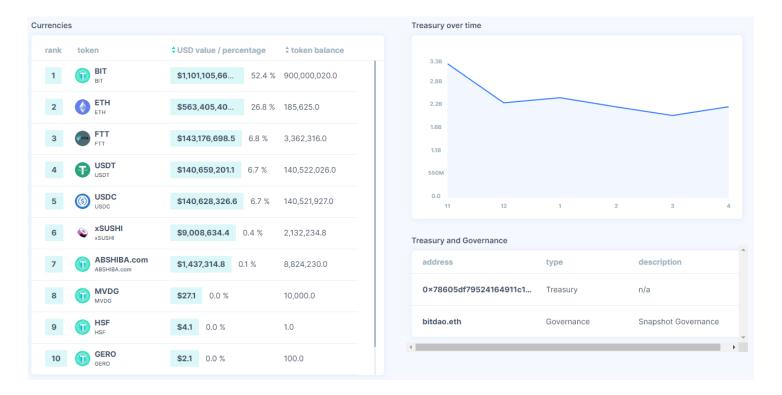
- Everything is On-Chain:
 - Proposals
 - Votes
 - Execution
- Directly after the vote has concluded, the given code is executed (or not) by the voting/controller contract.



DAO Treasury



- Multi-Signature (e.g., Gnosis Safe)
- Can be filled up through Initial Token sales (IEO, IDO, ICO, etc.).
- Although some DAOs may prefer to lock all their assets in a single token (e.g., the native token of a DEX), this may not always be the smartest move.
- Contributors are paid from the treasury through governance proposals.



Treasury of BitDAO: https://deepdao.io/organization/30d12da9-5fd5-411a-8ca8-1422a4ce1373/finance **Decentralized Autonomous Organizations** © sebis

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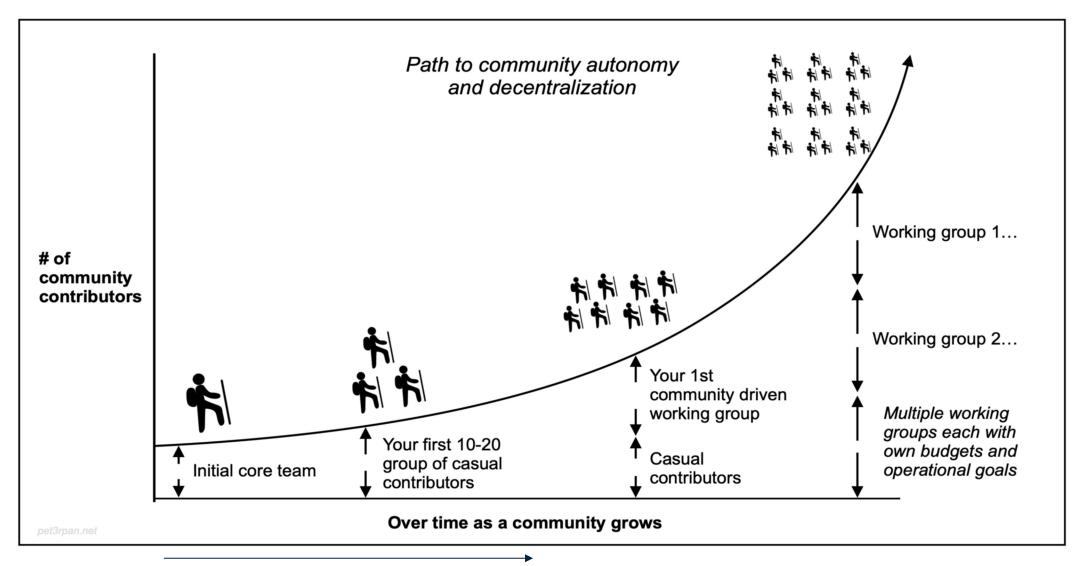


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How DAOs become DAOs



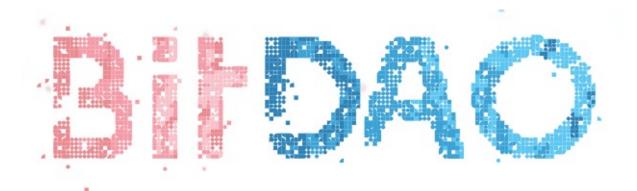


Progressive decentralization

Example of an Investment DAO



Acts as a Venture Capital Firm



EVERY BIT COUNTS

- BitDAO is a DAO with billions in existing assets and billions in forecasted contributions.
- BitDAO aims to support builders of the decentralized economy. It is an open platform for investment proposals that are voted upon by BIT token holders. It is agnostic to chains and projects.
- BitDAO is supported by Peter Thiel, Founders Fund, Pantera, Dragonfly, Spartan, Bybit, etc.

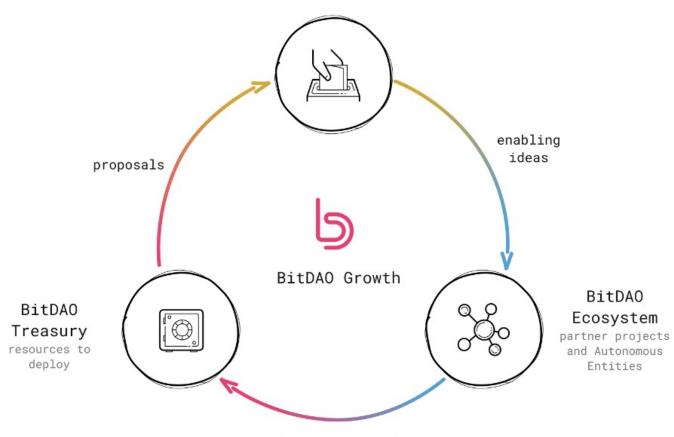
How BitDAO works



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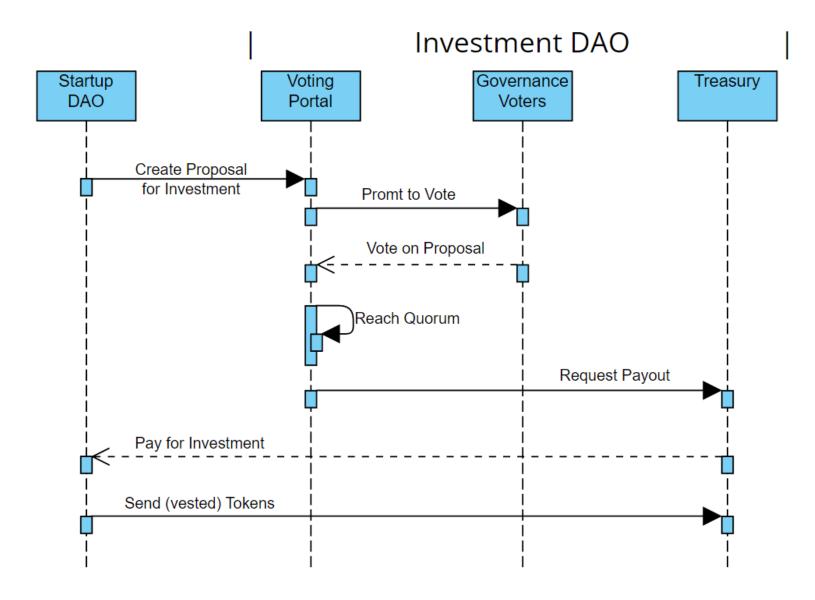
discuss and vote on proposals



ideas mature and contribute back to the treasury

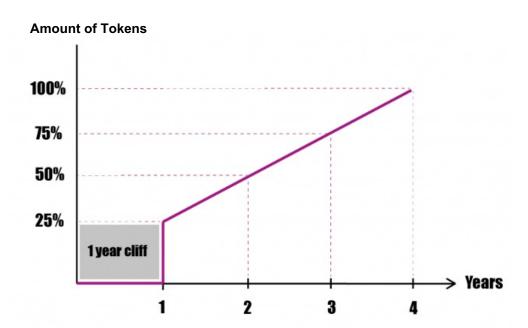
Investment in a Startup

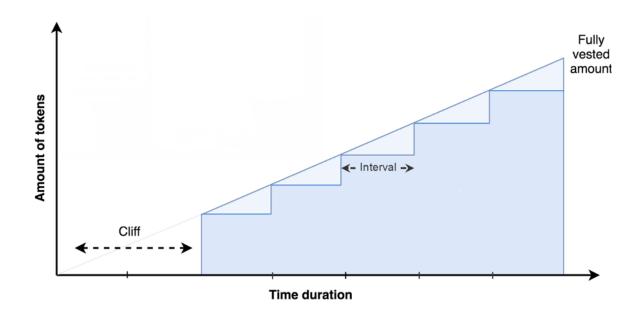




Token Vesting



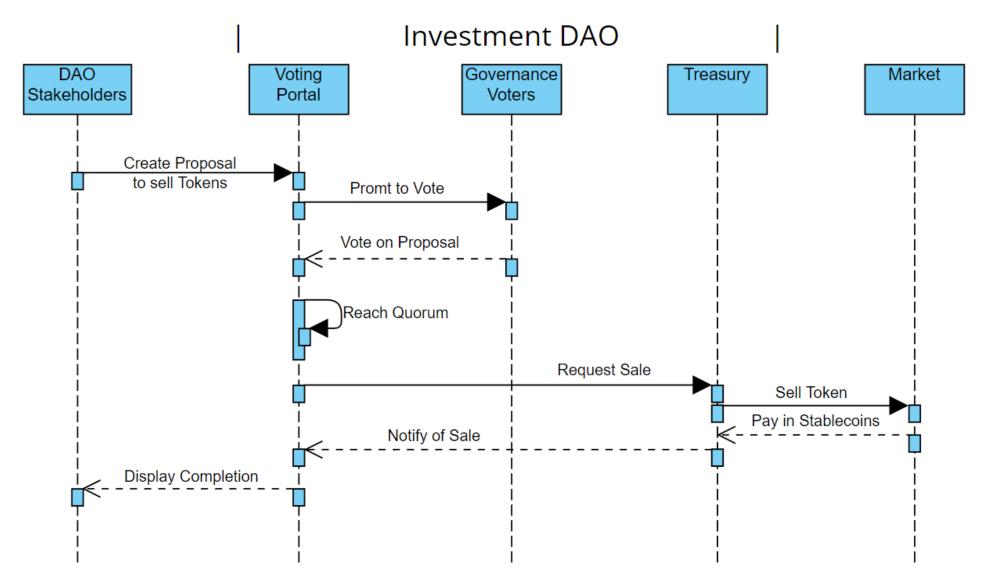




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Liquidation of Investments





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Types of DAOs





Product and Service





Networking focused Community



Investment Focused

Possible Taxonomy of DAOs



		Dimension	Characteristics								
Community	Membership	Access	Open (19)	Token Ownership (8)			Token Staked (1)			Invitation (2)	
		Type	Profit from Tokens	Community (9)				Decider (5)			
		Is hierarchical	Yes (3)				No (27)				
		Anonymity	Anonymous (11)		Pseudonymous (16)				Known (3)		
	Meta	Contributor Rewards	REP Token (2)		Governance Token (13)				Other Token (15)		
		Purpose	Community Building and Engagement (7)		Product Building and Management (18			3)	Investing or Fund Raising (5)		
eou	Token	Туре	Singular (28)			Primary and Reputation (2)					
		Supply Cap	Capped (27)			Uncapped (3)					
	Process	Entry Barriers	Ownership (23)	Ownership + Application (2) Invitation (2		າ (2)	Staking (2)		Election (1)		
a		is fully Public	Yes (27)				No (3)				
Governance		Execution	Automatic (8)			Manual (22)					
		has Proposal Creation Restricted	None (7)	#Tokens Owned (12)			Allowlist (11)				
	Voting	is fully On-Chain	Yes (10)			No (20)					
		Power	#Tokens Owned (29)			Per Individual (1)					
		Limits	None (28)			Per Address (2)					
	Meta	Diversification	None (18)	Some (2)			Very (10)				
		Stakes Tokens	Yes (9)			No (21)					
Treasury		Capital Gain	Token Sales (9)		Services (16)		6)	Investment Returns (5)			
	Setup	Initial Airdrop	Yes (11)			No (18)					
		Initial Token Sale		Yes (19)			No (10)				

^{*} Numbers in brackets are the sample size for this characteristic

Further Readings



DAOs, A Canon

Sonal Chokshi, Zoran Basich, Guy Wuollet

Share

Contents

definitions & foundations

overviews & guides

applications

stories & journeys

how to's; get started

mechanics & more

What is (and isn't) a DAO? Why do DAOs matter? How do DAOs fit into web3, crypto, the creator economy, future of work, and many other areas?

Inspired by our <u>NFT Canon</u> earlier this year (and original <u>Crypto Canon</u>), we've culled the below list of resources for those seeking to understand, build, and otherwise get involved with these "decentralized autonomous organizations" — which represent the future of community, coordination, work... and much, much more. If you have suggestions for quality pieces to add, let us know @a16z.

* * *

Definitions; conceptual foundations, evolutions

Why decentralization matters — decentralized networks aren't a silver bullet, but they offer a much better approach than centralized systems *by Chris Dixon*

https://cdixon.org/2018/02/18/why-decentralization-matters

The meaning of decentralization — one of the most frequently yet most poorly defined words; reasons for; three types of

https://future.a16z.com/dao-canon/

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IDP Opportunities about DAOs



- DAOs: An Investigation of the primary Actors behind successful DAOs
- DAOs: An Investigation of Tokenomics, Emission Models and their link to success
- DAOs: An Empirical Assessment of Investments in Decentralized Autonomous Organizations
- DAOs: An Empirical Analysis of Treasury Diversification in Decentralized Autonomous Organizations

... and more!



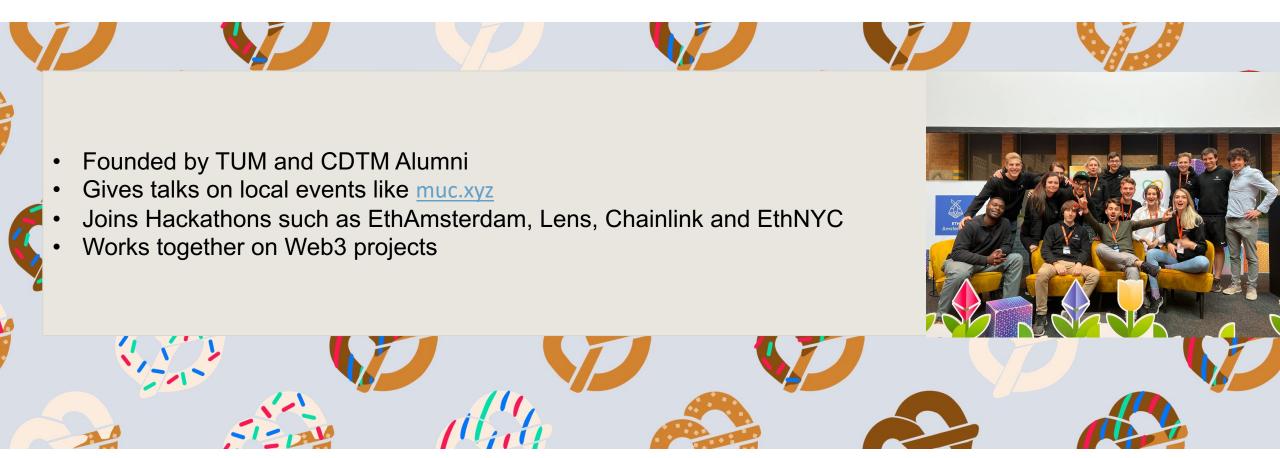
Supvervised by Christian Ziegler (christian.ziegler@tum.de)

https://www.notion.so/tum-cso/Final-Theses-Project-Studies-IDPs-29baca3b9cc44c15b3ceea10eb9cc3ec



An Example of a Local DAO: PretzelDAO









https://www.pretzeldao.com/