

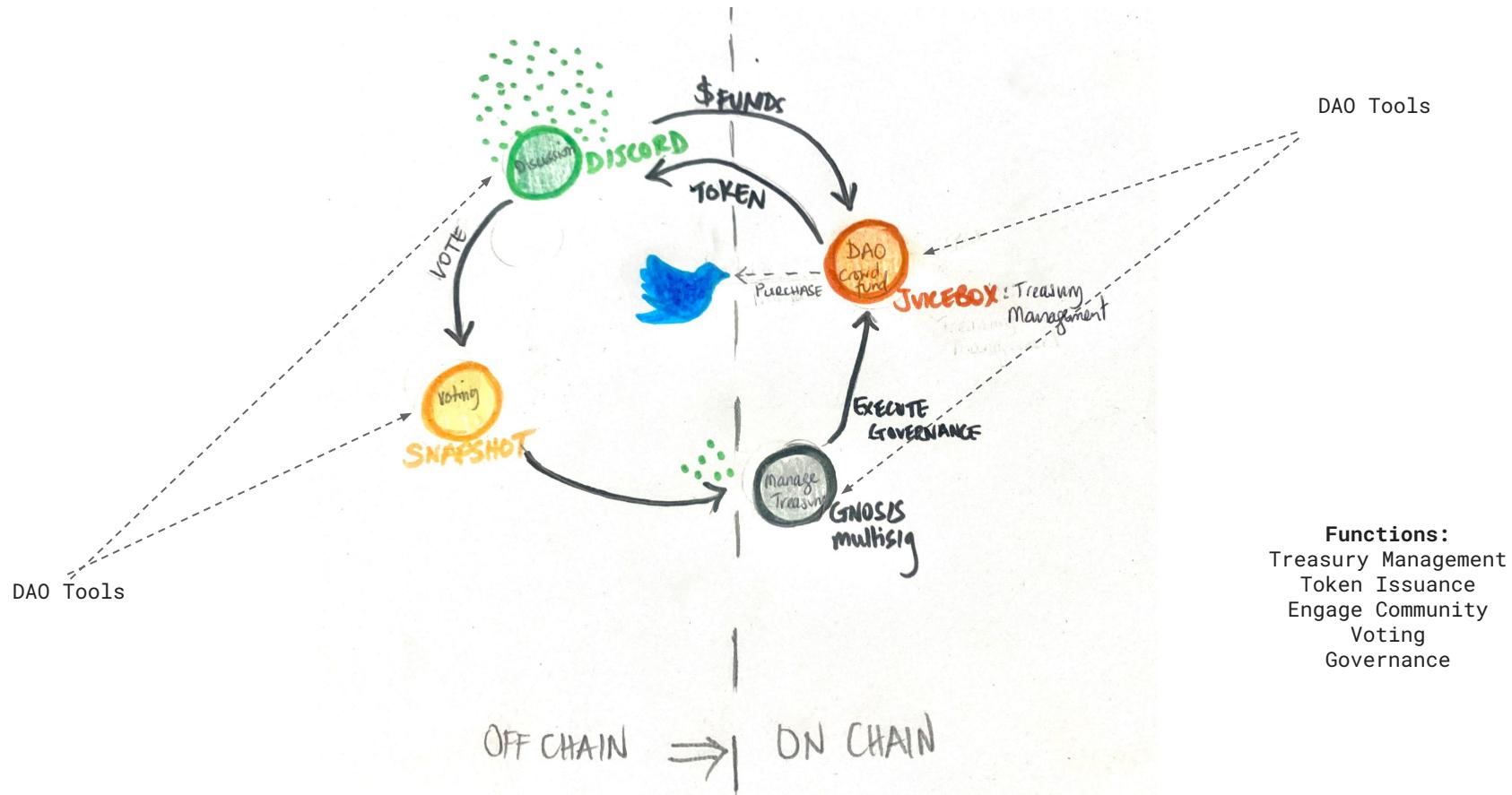
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Lightning Talk | 20th April 2022
DAO Overview & Tooling

DAOs: An overview & tooling

1. twitter DAO
2. DAO Tooling
3. List of Tools
4. Composiblity | Interoperability

twitter DAO





DAO Overview

A decentralized autonomous organization (DAO), is an organization represented by rules encoded as a computer program that is transparent, controlled by the organization members and not influenced by a central government, in other words they are member-owned communities without centralized leadership. A DAO's financial transaction record and program rules are maintained on a blockchain. The precise legal status of this type of business organization is unclear. [wiki]

2022: DAOs now have over a million members collectively, and the top twenty groups have nearly \$14B worth of digital assets.

DAOs are not replacing people. They replace processes and structure.

2 Main functions of DAOs:

1. Treasury / Liquidity Management (NFTs, Ethereum (ETH), or some other token)
2. Governing the treasury / Capital Allocation

The best tooling today is built to promote social cohesion and prioritize long term coordination.

DAO Tooling Landscape

Frameworks



Contribution & Reputation



Frontend & Analytics



Treasury Management



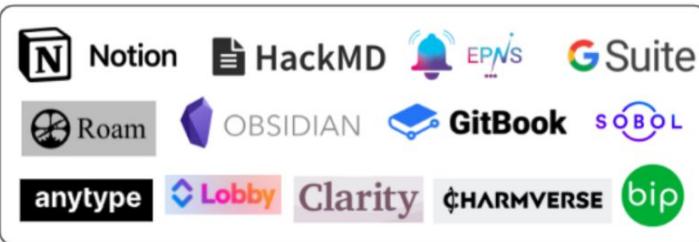
Content / Product



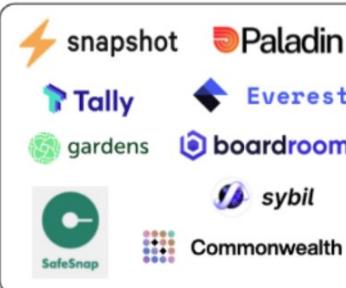
Compensation



Knowledge Management



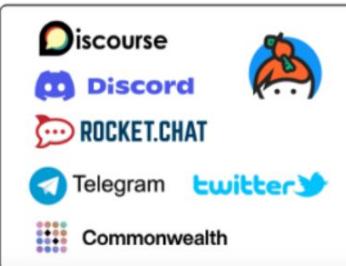
Governance & Voting



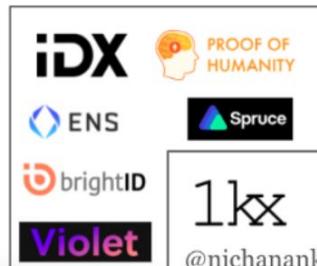
Access



Discussion



Identity



Example DAO suite of tools

This stack allows anyone to spin up a treasury, introduce governance, reward key contributions and engage communities in ongoing discussions.

Gnosis Safe - Multisig wallets commonly used to manage community treasuries

Snapshot - Off-chain voting platform for easy token-based governance

Discourse - Forum commonly used to discuss governance proposals

CollabLand - Bots providing token-gated access and tipping to community chat groups

Coordinape - Coordination game to determine which contributors(s) deserve token rewards

Parcel - Treasury management to easily track and send payments

SourceCred - Instance to track community participation and reward active members

Mirror - Finance creative projects through tokenized crowdfunds

Tally - Governance dashboard to track on-chain voting history across different protocols

Boardroom - Governance hub for tokenholder management to empower key decision making

Sybil - Create and track on-chain governance delegation

RabbitHole - Reward tokens for completing specific on-chain tasks

Top 20 DAO Tokens by Market Capitalization

#	Name	Price	24h %	7d %	Market Cap ⓘ	#	Name	Price	24h %	7d %	Market Cap ⓘ
24	Uniswap UNI	\$9.30	▼ 3.99%	▼ 4.86%	\$6,395,456,374	113	0x ZRX	\$0.6972	▼ 3.20%	▼ 5.06%	\$590,841,966
39	ApeCoin APE	\$11.73	▲ 0.92%	▼ 1.26%	\$3,246,544,450	116	Synthetix SNX	\$5.04	▼ 3.77%	▼ 0.61%	\$576,984,009
50	Aave AAVE	\$166.82	▼ 3.51%	▼ 4.66%	\$2,278,838,653	139	SushiSwap SUSHI	\$3.22	▼ 3.58%	▼ 4.93%	\$409,419,979
55	Maker MKR	\$1,814.80	▼ 3.80%	▼ 10.27%	\$1,771,231,957	140	UMA UMA	\$6.18	▼ 3.00%	▼ 11.31%	\$407,026,414
78	Dash DASH	\$105.60	▼ 2.79%	▼ 4.70%	\$1,120,366,584	154	Illuvium ILV	\$525.93	▼ 1.69%	▼ 9.30%	\$342,024,173
80	Decred DCR	\$72.82	▲ 28.79%	▲ 23.38%	\$1,080,719,643	157	Nervos Network CKB	\$0.01106	▲ 1.71%	▼ 7.31%	\$336,351,020
82	Curve DAO Token CRV	\$2.13	▼ 4.66%	▼ 11.36%	\$1,011,491,890	170	Ethereum Name Service ENS	\$13.92	▼ 2.51%	▼ 8.42%	\$280,532,653
84	Compound COMP	\$145.03	▲ 0.05%	▲ 10.13%	\$965,395,276	270	Rari Governance Token RGT	\$14.81	▼ 2.79%	▲ 3.65%	\$183,235,223
96	Kyber Network Crystal v2 KNC	\$4.28	▼ 6.04%	▲ 6.82%	\$749,972,228	279	Aragon ANT	\$4.25	▼ 1.96%	▼ 6.23%	\$168,428,127
216	BitDAO BIT	\$1.19	▼ 1.88%	▼ 2.35%	\$699,968,070	280	inSure DeFi SURE	\$0.006205	▼ 0.80%	▼ 2.77%	\$166,980,957

source:coinmarketcap.com

<https://coinmarketcap.com/view/dao/>

DA0masters.xyz

Explore the tools to
launch, manage, and grow a DAO

Join our Discord

All

Investing

Recruiting

Marketing

Fundraising

Token Creation

Token Gating

DAO Analytics

Governance & Voting

Treasury Management

Knowledge Management

Multi-feature Platform

Community Management

Contribution & Compensation



Unlock Protocol

Membership benefits for online
communities.

Community Management Token Gating



Mintgate

Create, sell, and buy NFTs with
unlockable content and gated links for
token holders

Token Gating



Orca

Extensible and modular DAO
implementation built around small
working groups called pods

Community Management Token Gating

100 DAO Tools

Tool	Function	Description
Snapshot	Governance & Voting	Snapshot is a decentralized voting system. It provides flexibility on how voting power is calculated for vote. Snapshot supports various voting types to cater to the needs of organizations. Creating proposals and voting on Snapshot is user friendly and does not cost any gas as the process is performed off-chain. In short, Snapshot is an off-chain gasless multi-governance client with easy to verify and hard to contest results.
Aragon	Multi-Feature	Suite of DAO templates and apps that can be combined to launch DAOs, complete with dispute resolution, in as little as five minutes
Juicebox	Fundraising	Juicebox is dedicated to developing DAO treasury management software. The protocol is built to support small projects with grand visions as well as large projects that have complex operations. DAOs crowdfunded on Juicebox will be able to calibrate incentives and allocations for their users and contributors over time
collab.land	Community Management	Collab.Land leverages the power of identity through crypto currency to create a social space unique to a specific network of humans.
ENS Domains	Identity	ENS aims to become the naming protocol of the decentralized internet by creating portable Web 3.0 usernames that are interoperable across all blockchains and decentralized apps (dApps).
Coordinape	Contribution, incentives	Coordinape facilitates rewards to community members based on the recognition from their peers. Each member has a set amount of allocation points, and can allocate points to the contributors they have worked with based on what they think of their contributions.
Coinvise	Contribution, Token Creation	Powerful tools for creators to build & operate a DAO. Creators use Coinvise for minting a token, retroactive airdrops, crowdfunding & creating incentives for their community
Dune Analytics	analytics	Dune Analytics is a powerful tool for blockchain research. Dune gives you all the tools to query, extract, and visualize vast amounts of data from the blockchain. Dune is unlocking the power of public blockchain data by making it accessible to everyone. Reason why it's interesting: What good is blockchain
Grapes network	Community	Grapes network provides a suite of community building features
POAP	Token creation	POAP enables a new way of keeping long-lasting records of life experiences. A POAP is a digital collectible created as a NFT (non-fungible token) powered by the blockchain.
DeepDAO	analytics	DeepDAO aggregates DAO data and provides DAO analytics which list, track, visualize and analyze data about DAOs.
Astro	Community Management	no-code DAO creation platform. Astro allows DAO members to create & vote on proposals, set bounties, and manage a treasury.
Bip	Knowledge management	<i>Bip is a community workspace with Git-editable documents and deep integrations with modern community spaces, such as Discord and Slack. Bip features include bots to export insightful community conversations, contributor leaderboards, permissions management, and social-driven discovery of new projects.</i>
ipfs	identity,	<i>IPFS is a distributed system for storing and accessing files, websites, applications, and data.</i>
ceramic	identity	<i>Ceramic is a decentralized, open source platform for creating, hosting, and sharing streams of data.</i>

100 DAO Tools

Tool	Function	Description
Mayco	Multi-feature	<i>Myco is an all-in-one platform that enables Digital Social Clubs to create digital media as a group and collectively own the economic rights associated with their actions.</i>
Unlock protocol	Community management	<i>Unlock is a protocol for memberships that lets creators monetize their work, on their own terms, without having to rely on 3rd party applications or platforms. This open-source protocol allows creators to integrate and build any kind of membership application.</i>
Raid guild smart invoice	Contribution & compensation	Smart Invoice enables clients and service providers to transact with fewer intermediaries. Think 'smart contracts for invoicing'.
superfluid	Treasure management	Superfluid enables programmable payments on a real-time and continuous basis.
Upstream Collectives	Multi-feature	Upstream Collectives is a multi-feature platform that includes treasury, governance & voting, token gating, and communication management.
Parcel	Contribution & Compensation Treasury Management	Parcel enables DAOs to execute multisig, multi-token mass payouts both on a one-off and automated, recurring basis Parcel is a treasury management and compensation tool that can manage fund outflows for a DAO.
Clarity	Knowledge Management	Clarity is a knowledge management platform that mashes up features of Notion, Discord, and Slack, without all the clutter.
openLaw	Contribution & Compensation Community Management	OpenLaw is an online legal contracts portal which provides users with a blockchain-based protocol to create 'smart' legal documents. The OpenLaw platform can be used to create smart contracts and record them on the Ethereum blockchain.
Boardroom	Community management, governance	a governance framework agnostic interface that enables DAOs to standardize common actions like voting and delegation and enable DAO members to easily participate in distributed governance.
DeepDAO	Analytics	DeepDAO aggregates DAO data and provides DAO analytics which list, track, visualize and analyze data about DAOs. Metrics include market cap, member count, governance engagements, proposals and discussions, etc.
Colony	Multi-feature	framework for creating and running DAOs. It provides everything an organization needs to operate on-chain: Payments, Teams, Authority, Governance, Fundraising, Revenue sharing, Arbitration, and the ability to interact with any other smart contract on Ethereum.
DaoHaus	Multi-featured, Launcher	DAOhaus is a no-code platform for launching and operating DAOs, which uses the Moloch open source code.
Tally	Governance & voting	Tally is a voting and governance analysis tool that allows members of a protocol DAO (e.g. Compound, Uniswap, or Gitcoin, etc.) to vote on active on-chain proposals, delegate votes to a third party, or view previous proposals.
Rabbithole	Recruiting Marketing	Rabbithole allows users to discover and use new decentralized apps (d'apps), protocols, or crypto platforms in return for cryptocurrency rewards. Crypto tools and platforms can partner with Rabbithole to create Skills, Quests and Tasks for their users.
Mirror	Marketing, Fundraising	Crypto-native publishing platform and a creative suite for communities and DAOs

100 DAO Tools

Tool	Function	Description
Guild	Community Management Token Gating	Membership management can be a complex problem as DAOs scale. Guild allows users to easily onboard people in a community based on proof-of-ownership.
Proof of humanity	identity	a system combining webs of trust, with reverse Turing tests, and dispute resolution to create a sybil-proof list of humans.
idx	identity	IDX is a multi-platform identity protocol that replaces centralized user tables with a decentralized alternative. IDX allows users to build up a unified digital identity consisting of all their data while enabling developers to break down silos and freely share a users' data between applications.
coinshift	Treasury Management	Treasury management tool for DAOs, operating on users' gnosis safe
Common wealth	community-management , Multi-feature	Commonwealth is an all-in-one platform for on-chain communities to discuss, vote, and fund projects together. Never miss an on-chain event, proposal, or important discussion again.
llama	Treasury Management, Analytics	Economic infrastructure for DAOs , llama provides treasury analytics, financial reporting and dao-to-dao financial interactions
Nexus Mutual	Decentralized insurance	Nexus provides on-chain insurance, it is a risk sharing platform to protect against hacks, bugs and exchange failure.
LexDao	Legal	legal engineering crypto law
Request	Treasury, Payment	Transactions on Request Network are immutably recorded and requests are processed without an intermediary. Companies and individuals pay & get paid in digital currencies of many payment networks, including Ethereum, ERC20s, Polygon, Celo, Fantom, and Near.
sablier	Treasury, payment	Sablier creates stable, constant stream of funds between addresses
syndicate	Treasury	Investment protocol allowing communities to create strategically focused, blockchain based investment funds
SafeSnap(snapshot/gnosis safe)	Governance	safeSnap is a snapshot plugin that allows daos to implement their offchain snapshot decision as binging on-chain transactions to gnosis safe
Utopia	Treasury management, payment tool	Utopia provides treasury and fund management services like automated payroll, batch payments, crosswallet managements
discord	communication	Discord is the favorite communication app for most dao communities
NewshadesDao	communication	Newshades is building a discord alternative for daos.
uberhaus	community	Uberhaus is a network of dao communities, a community of communities that govern the daohaus suite of products
vocdani	Multi-features	Vocdani is built by aragon, it provides an anonymous voting protocol, communication and fundraising protocol.
Metapod	Community	Metapod is a dao competition program, a competition held for dao and community focused projects
DxDao	Financial, DeFi	DxDao creates DeFi Dao projects

100 DAO Tools

Tool	Function	Description
DaoStar	Governance	DAOstar defines a common interface for DAOs, akin to tokenURI for NFTs, so that DAOs of all shapes and sizes are easier to discover, more legible to their members, and more compatible with future tooling. Many DAOs already publish their data in various ways. We've standardized these existing best-practices, making it easy for people to create and maintain new DAOs and DAO tooling.
crowpad	launcher	Crowpad is a community building tool on solana. (currently in beta phase)
immunefi	Security	Immunefi provides security services, bug bounty for developers, code auditing.
openzeppelin	Security	Open zeppelin provides security services, code auditing and issues a set of codes for developers to build secure applications
hacken	security	Cyber security services, security audits
certik	security	Cyber security services, certik issues reports on audited projects and issues a rating on every project and its security assessment
The Daoist	Media, news, networking	The daoist hold events and meetups to dacists, helping the dao grow by gathering all daoists together
openq	Payment, recruit	openQ is a decentralized project to hire developers.
DaoSocial Club	Media, communication	Dao social club gathers developers, dao leaders and people interested in dao to meetup
OrcaProtocol	scaling	Orcaprotoocol is a scaling solution for the DAO.
xDao	Launcher	xDao is a no code Dao Launcher.
SubDAO	MultiFunctional	A DAO infrastructure based on Polkadot. It allows any decentralized organization to swiftly create and manage DAOs
Mirror	Media, news	Mirror is a decentralized writers platform, a web3 medium.
Discourse	Communication	Discourse is widely used by daos to draft and propose governance proposals.
TokenSets	Treasury	Asset management tools that integrates to DeFi project on ethereum, polygon and optimism.
ForeFront	Media	Web3 Social, and a dao inhabited by dao enthusiasts
seedclub	investments	A dao that invests in web3 communities
Index protocol	Investments, Treasury	Index protocol provides various investment tools, from token baskets to leveraging.
unleashed	Insurance	Unleashed is a decentralized insurance protocol for common crypto risks. Collateralized by liquidity pools
nansen	analytics	<i>Nansen is a blockchain analytics platform that enriches on-chain data with millions of wallet labels. Crypto investors use Nansen to discover opportunities</i>
crabadao	Investments, NFTs	Crabadao is a group of crabada players.the main goal of crabadao is to optimize crabada gameplay and generate maximum profits
cityDao	Investment, financial	CityDAO is an experiment in decentralized land ownership, starting with a 40 acre parcel in Wyoming
OpenDao	financial	Opendao is a permissionless stablecoin minting protocol
BanklessDao	General purpose	Bankless dao is a movement that aims to change the world by making the world bankless

100 DAO Tools

Tool	Function	Description
OpenDao	financial	Opendao is a permissionless stablecoin minting protocol
BanklessDao	General purpose	Bankless dao is a movement that aims to change the world by making the world bankless
Fiat Dao	Financial	Leverage and secondary liquidity for DeFi fixed income assets
Curve Finance	DeFi,	<i>Curve is an exchange liquidity pool on Ethereum designed for: extremely efficient stablecoin trading, low risk, supplemental fee income for liquidity.</i> <i>Many daos deposit treasury funds in curve for profits.</i>
Tornado Cash	Privacy	Tornado cash is an ethereum privacy solution, daos might use this for privacy solutions
pubDao	media	Pubdao is a media dao, Daos project can use it to sponser publishers to gain more followers
hackMd	Media,	HackMD is a realtime, multi-platform collaborative markdown knowledge base. You can write notes with other people on your desktop, tablet or even on the phone.
Radicle	Collabration	Radicle is a peer-to-peer stack for building software together.
DaoStack	Governance, Launcher	The DAOstack project is building a modular, open-source software stack for DAOs that includes a library of governance protocols and friendly interfaces
PrimeDao	Launcher, Investment	A DAO collective focused on researching and building next-generation coordination tools for decentralized organizations. Building tools that turn DeFi into a cooperative ecosystem.
districtx	Media	Network of decentralized apps built on Ethereum & IPFS
TributeDao	Launcher	<i>TributeDAO Framework enables low cost deployments due to its design and architecture based on Clone Factory pattern.</i>
SourceCred	contribution	<i>SourceCred. A tool for communities to measure and reward value creation.</i>
govrn		<i>Govrn is a governance framework that is building dao tools for communities.</i>
Rocket chat	Communication	Rocket chat is a messaging app that values privacy.
Mintgate	Token gating	<i>MintGate is a platform that allows users to create new NFTs that can include unlockable content or generate gated links for token holders.</i>
unlock	Community management, token gating	The Unlock Protocol is a public good aimed at being governed by a DAO of its users and developers.
Everest		Made by The graph. Everest is a decentralized shared project registry
web3vm	custody	Web3 is a javascript library of code and modules that work within the Ethereum ecosystem.
dHedge	Asset Management	dHedge provides asset management with performance rating on every asset manager
Armor Fi	Asset Management	Armor is a DeFi coverage aggregator that makes securing your DeFi assets against hacks as easy as possible
keeperDao		

100 DAO Tools

Tool	Function	Description
Dao Masters	Education	Learn how to set up a DAO & the latest DAO tools.
Scribe Dao	Education	<i>ScribeDAO is a learn-to-earn DAO that creates incentive structures for motivated Web3 community members to upskill themselves from readers of content</i>
Odyssey Dao	education	<i>Odyssey DAO is a Web3 learning community helping one million people join the Web3 economy.</i>
Developer Dao	Education	Developer DAO exists to accelerate the education and impact of a new wave of web3 builders.
finance.vote	Financial, investment	building the DAO Suite for the decentralized future
knoxDao	Education	Learn to Earn Dao
		providing: Collaboration mechanisms Growth tools Governance infrastructure Revenue Sharing Agreements
Rebaked	Marketing, Financia, Investment	
lunarassistant	Marketing	Automated Discord roles

STRUCTURE

Traditional Organizations	DAOs 1.0	DAOs 2.0
<pre> graph TD Shareholders[Shareholders] --> Board[Board of Directors] Board --> Managers[Managers] Managers --> IndividualContributors[Individual Contributors] </pre>	<p>Tokenholders</p> <p>Core Team</p> <p>Individual Contributors</p> <pre> graph TD Tokenholders[Tokenholders] --> CoreTeam((Core Team)) CoreTeam --> IndividualContributors[Individual Contributors] </pre>	<p>Tokenholders</p> <p>Working Group 1</p> <p>Working Group 2</p> <p>Working Group N</p> <p>New Working Group</p> <p>Individual Contributors</p> <pre> graph TD Tokenholders[Tokenholders] <--> Accountability[Accountability] Tokenholders <--> Resources[Resources] Tokenholders <--> WorkingGroups[Working Group 1, 2, ..., N] WorkingGroups <--> IndividualContributors[Individual Contributors] WorkingGroups -- Proposal --> NewWorkingGroup((New Working Group)) </pre>
Closed Rigid Participation Static Hierarchy Fast due to centralization Specialization Scalable	Open Fluid Participation No hierarchy Slow due to disorder No specialization Hard to scale	Open, with good filtering mechanisms Fluid Participation Emergent Hierarchy Fast due to adaptability Specialization Scalable
Frameworks The LLC Contribution & Compensation Top-down, standardized Decision Making Behind closed doors Treasury Management TradFi + standardized reporting Transparency from the outside Little to None	Frameworks Monolithic Contribution & Compensation Lack of standards Decision Making Voting decoupled from execution Treasury Management DeFi Transparency from the outside Raw data from multiple places	Frameworks Modular, extensible Contribution & Compensation Bottom-up, standardized Decision Making Off-chain vote => On-chain execution Treasury Management DeFi + standardized reporting Transparency from the outside Aggregators produce human-readable data

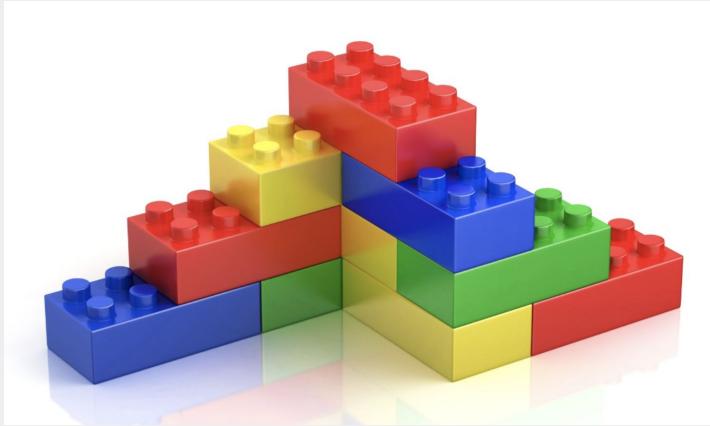
OPERATIONS

TOOLING

1kx

@nichanank

Composability | Interoperability



Composability is one of the key features of web3.

Chris Dixon defined it as the “ability to mix and match software components like lego bricks”



Interoperability is an umbrella term which refers to a category of technologies and projects that aim to allow blockchain networks / DAOs to function together.

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