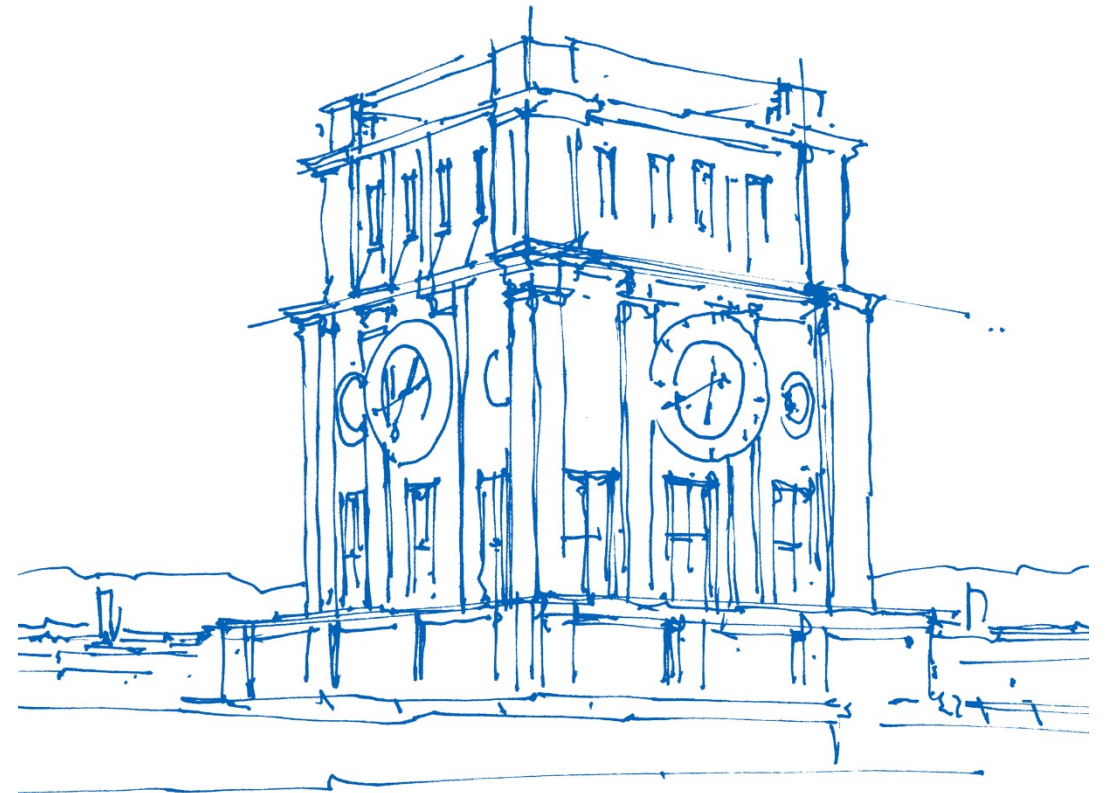


Decentralized Autonomous Organizations and Organizational Approaches

Christian Ziegler, M.Sc.
Blockchain Salon, 12.05.2023



Uhrenturm der TUM

Agenda



- 1 What is a DAO
- 2 Industry examples

What are DAOs?

Decentralized



Based on a public Blockchain



Decentralized on infrastructure level



Decentralized on application level

Autonomous



Autonomous Decision making



Autonomous execution



Has Notary



Predetermined voting rules



Transparency

Organizations



Updates on code through democratic voting



Smart contract code at the core



Code is open source



Storage of value

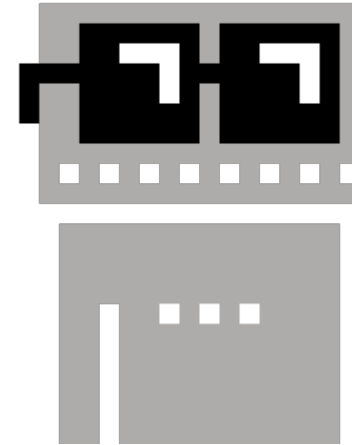


Transaction of value



Rewards externals
for work

Industry Examples of DAOs





Industry Examples of DAOs

MakerDAO



DAI



MKR

- has decentralized governance
- Governs Dai, a decentralized stablecoin.



MakerDAO

Decentralized



Based on a public Blockchain



Decentralized on infrastructure level



Decentralized on application level

Autonomous



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Autonomous execution



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Recap: Stablecoins



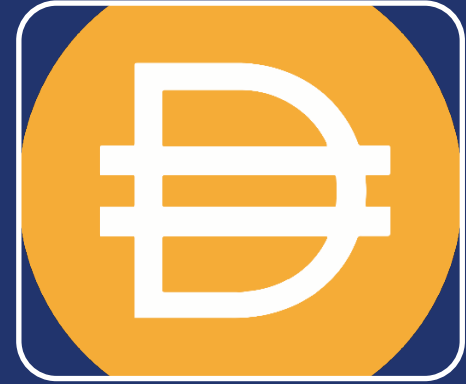
USDC

Fiat
Commodity
Crypto



USDT

Fiat
Commodity
Crypto

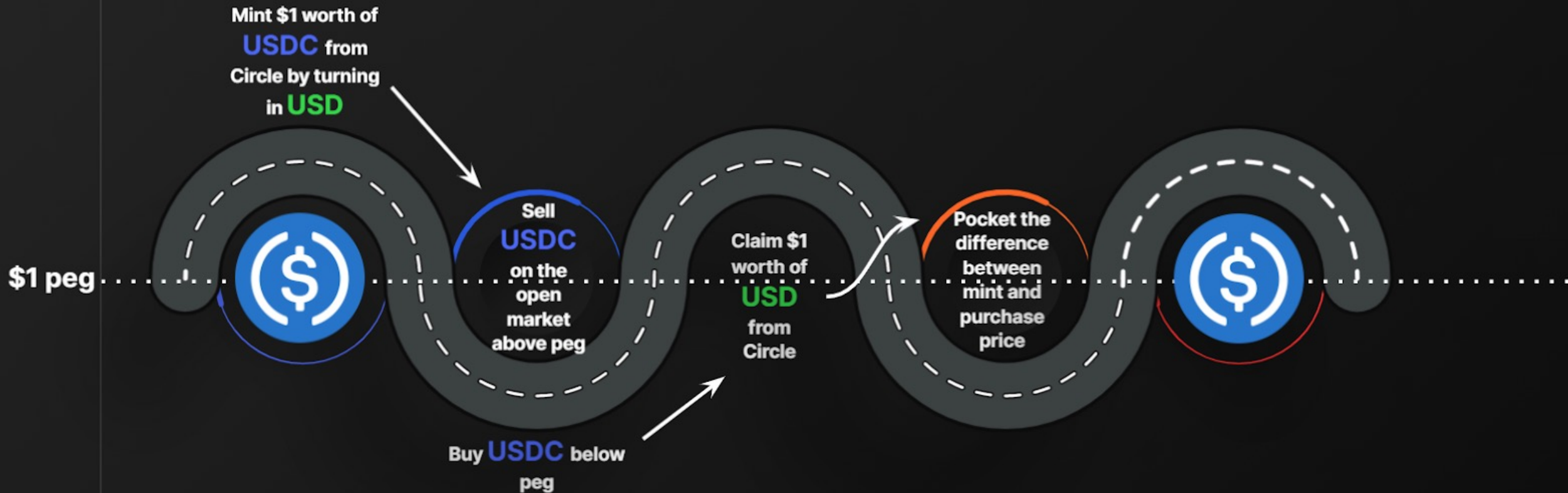


DAI

Crypto

Backed by

Arbitrage behavior around USDC



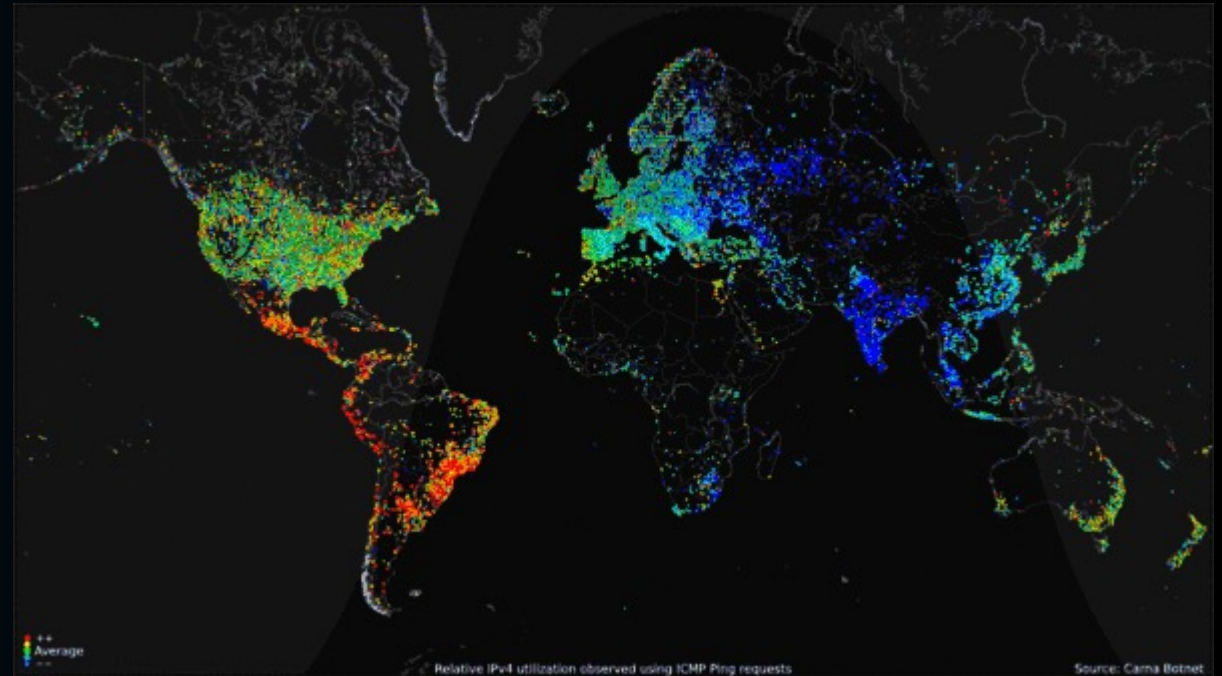
Recap: Stablecoins - DAI

1 Ⓓ = 1 \$ *

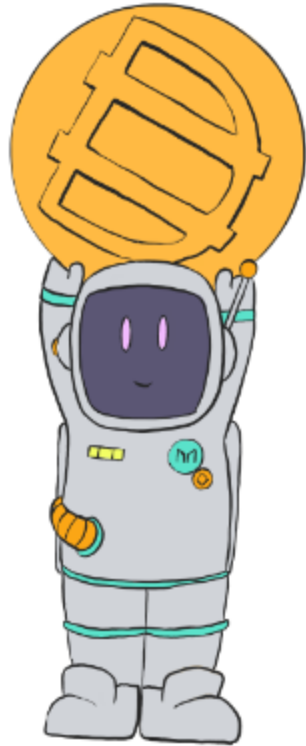
* Except when it's not

Maker Protocol

- Built on Ethereum
- Anyone with a crypto wallet can generate DAI and use the system
- Maker is permissionless by design



Vaults - Generating DAI



A Vault Is a Tool That Lets the Owner Deposit Collateral and Generate Dai



Configuring the Vault

- **Deposit** of 20 Eth (Assume 1 Eth = 1732\$ | total: 34646\$)
- **Liquidation** is at 0\$ since no DAI is borrowed
- **Withdrawal** until 20 ETH
- **Generation** of 19,248.23 DAI with this Vault
- **Collateral** is 180%
 - For every 1 DAI you borrow you need 1.8 DAI in Securities
 - If you fail to hold this margin, you get liquidated

Vault changes	
Collateral Locked	0.00 ETH → 20.00 ETH
Collateralization Ratio	0.00% → 0.00%
Liquidation Price	\$0.00 → \$0.00
Vault Dai Debt	0.00 DAI → 0.00 DAI
Available to Withdraw	0.00 ETH → 20.00 ETH
Available to Generate	0.00 DAI → 19,248.23 DAI
Max gas fee ?	n/a
Stop-Loss Information	
Stop-Loss Collateral Ratio	180.00%
Dynamic Stop-Loss	\$0.00

Liquidations

Automated Maker Protocol auctions intended to ensure there is always more collateral covering all outstanding debt

A liquidation is triggered when a vault becomes undercollateralized.

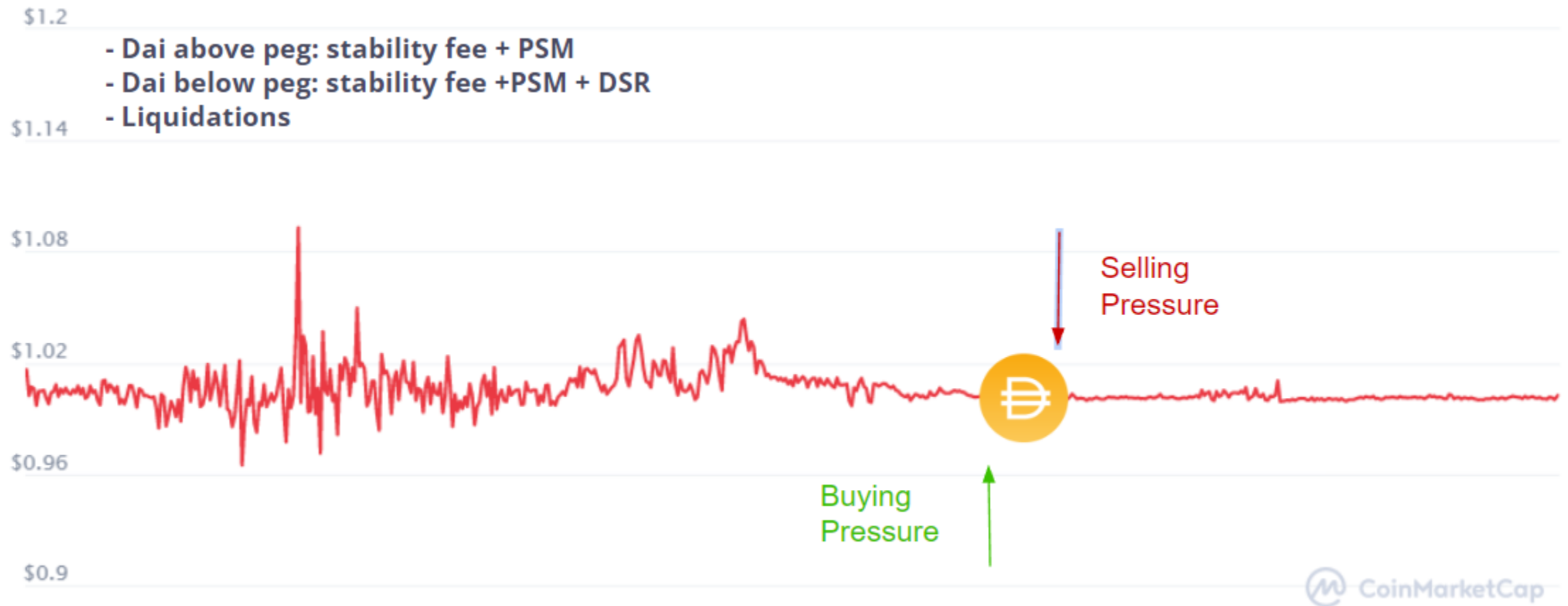
Flip - Undercollateralized Vault auctions

Flop - Sell MKR to cover system bad debt / recapitalize system

Flap - System surplus auctions. Buy MKR and burn with surplus Dai.









Keeping DAI Stable



PSM: Swap collateral directly for DAI at a fixed rate

DSR: Earn interest on locked DAI

How MKR plays into this – Initial Sales

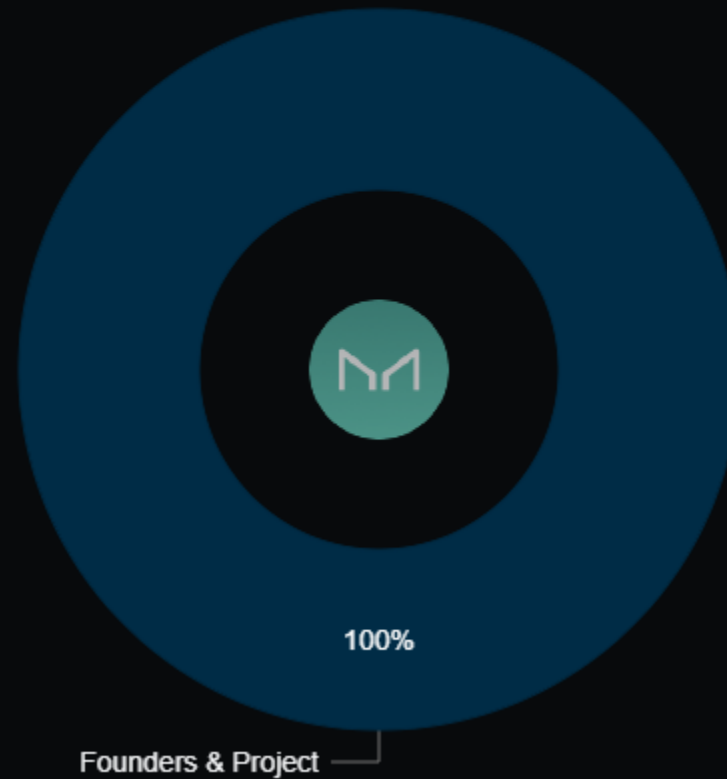
Secondary Token Sale	\$12.00M	Dec 2017	Private	^
 12/15/2017 - 12/15/2017	 \$300 per MKR			
Included in the private round was Andreessen Horowitz and Polychain Capital joined by Distributed Capital Partners, Scanate, FBG Capital, Wyre Capital, Walden Bridge Capital, and 1confirmation				
Secondary Token Sale	\$15.00M	Sep 2018	Private	^
 09/24/2018 - 09/24/2018	 60.00K MKR Allocated	 \$250 per MKR		
The token sale was direct to a16z Crypto				
Secondary Token Sale	\$27.50M	Dec 2019	Private	^
 12/19/2019 - 12/19/2019				
Tokens were sold to Paradigm and Dragonfly Capital in order to help expand into Asian markets.				

How MKR plays into this - Tokenomics

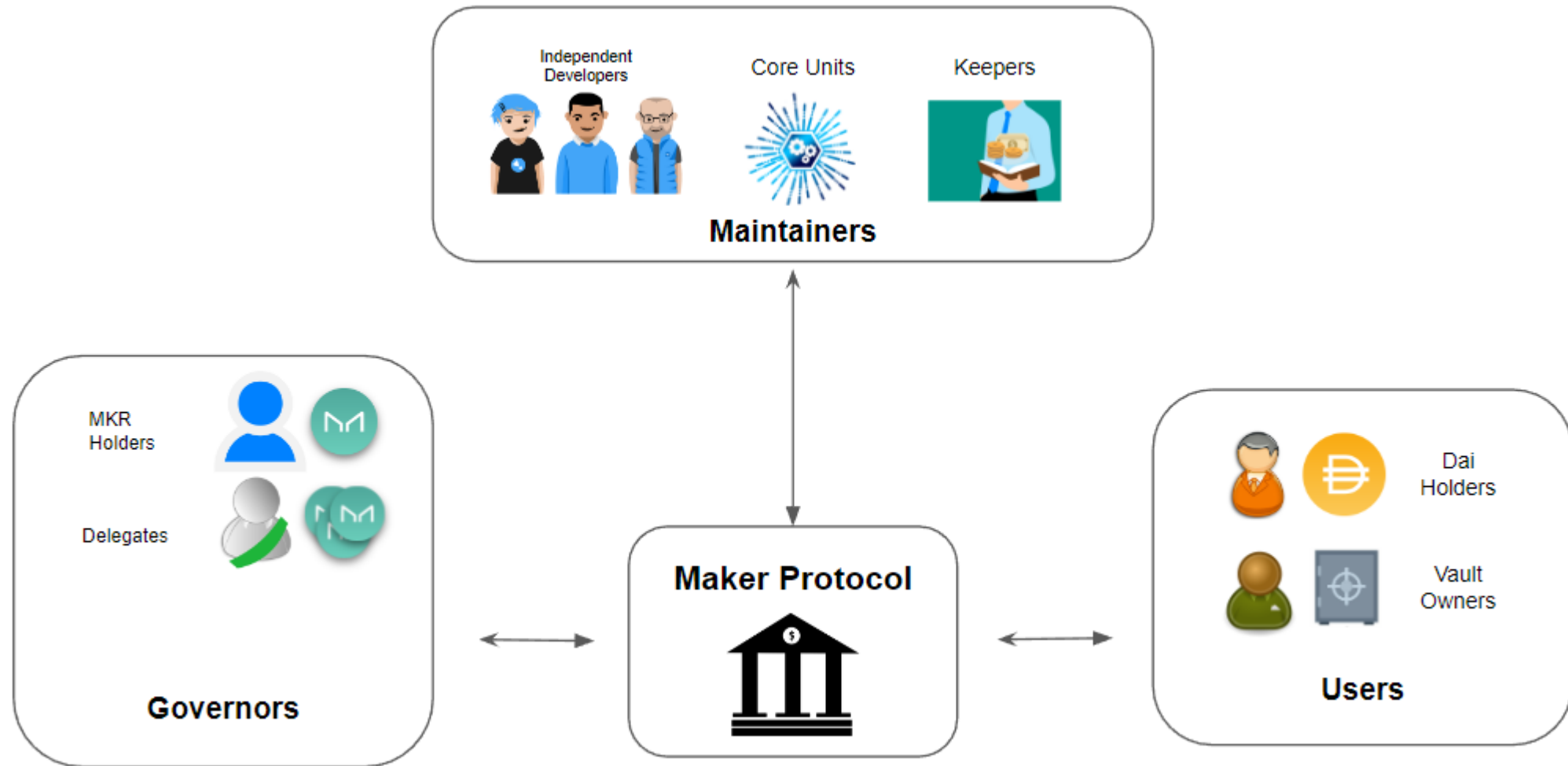
Launch Style: Centralized Distribution

Distribution Date: 11/25/2017

Initial Supply: 1.000.000



MakerDAO Governance



MKR Tokenomics

Good governance by MKR holders is rewarded with:

- MKR tokens buy back from surplus buffer
- MKR token price increase

Surplus achieved with...

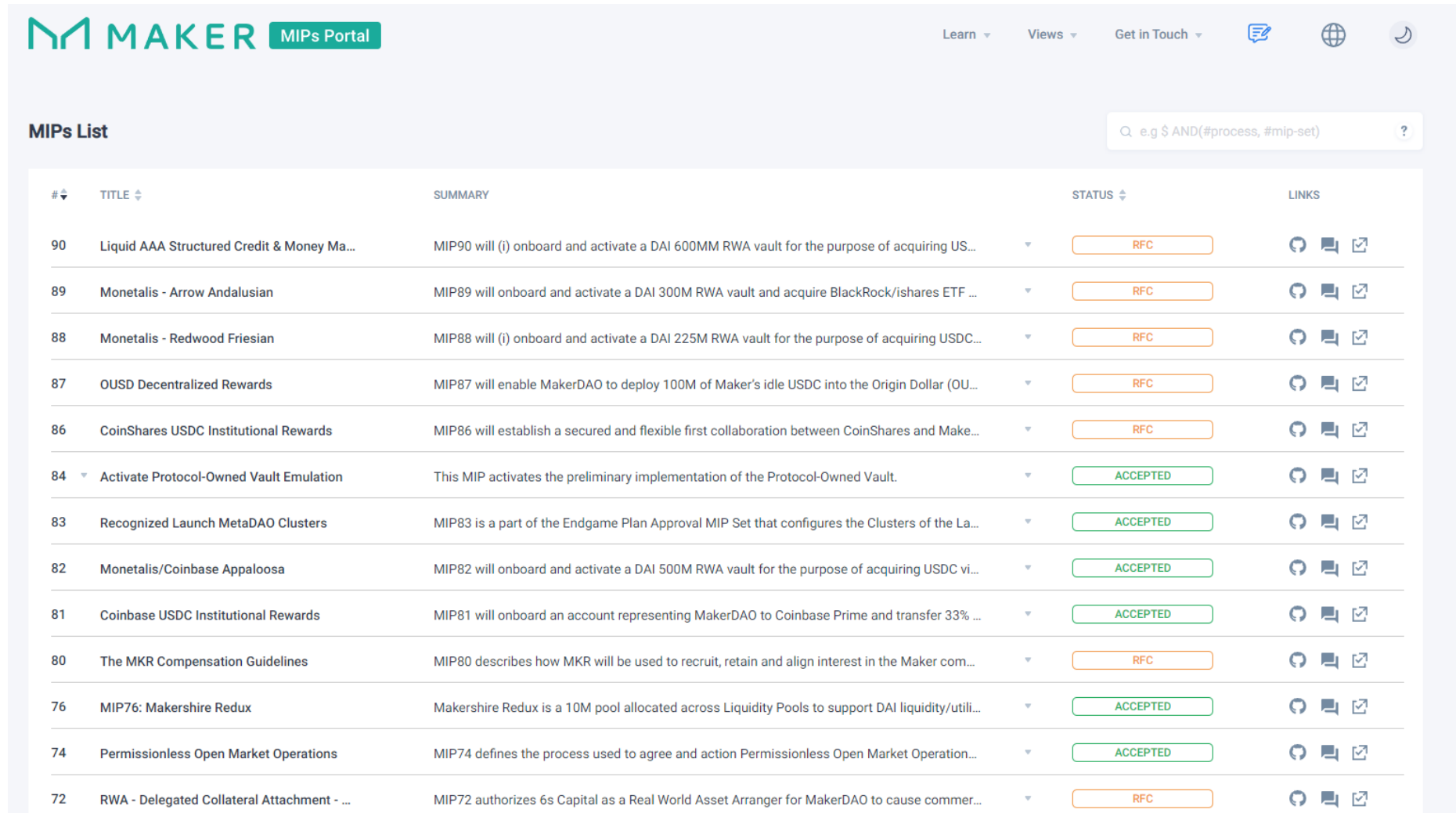
- Stability Fee
- Liquidation Penalties
- Auctions



Maker to USD Chart



MIPs Portal



The screenshot displays the MakerDAO MIPs Portal interface. At the top left is the MakerDAO logo and the text 'MIPs Portal'. On the right side of the header, there are navigation links: 'Learn', 'Views', and 'Get in Touch', along with icons for chat, a globe, and a moon. Below the header is a search bar with the placeholder text 'e.g \$ AND(#process, #mip-set)'. The main content is a table titled 'MIPs List' containing 14 rows of data. Each row represents a MIP with columns for ID, Title, Summary, Status, and Links. The status of each MIP is indicated by a colored pill: orange for 'RFC' and green for 'ACCEPTED'. The links column contains icons for external links, chat, and a checkmark.

#	TITLE	SUMMARY	STATUS	LINKS
90	Liquid AAA Structured Credit & Money Ma...	MIP90 will (i) onboard and activate a DAI 600MM RWA vault for the purpose of acquiring US...	RFC	External Chat Check
89	Monetalis - Arrow Andalusian	MIP89 will onboard and activate a DAI 300M RWA vault and acquire BlackRock/ishares ETF ...	RFC	External Chat Check
88	Monetalis - Redwood Friesian	MIP88 will (i) onboard and activate a DAI 225M RWA vault for the purpose of acquiring USDC...	RFC	External Chat Check
87	OUSD Decentralized Rewards	MIP87 will enable MakerDAO to deploy 100M of Maker's idle USDC into the Origin Dollar (OU...	RFC	External Chat Check
86	CoinShares USDC Institutional Rewards	MIP86 will establish a secured and flexible first collaboration between CoinShares and Make...	RFC	External Chat Check
84	Activate Protocol-Owned Vault Emulation	This MIP activates the preliminary implementation of the Protocol-Owned Vault.	ACCEPTED	External Chat Check
83	Recognized Launch MetaDAO Clusters	MIP83 is a part of the Endgame Plan Approval MIP Set that configures the Clusters of the La...	ACCEPTED	External Chat Check
82	Monetalis/Coinbase Appaloosa	MIP82 will onboard and activate a DAI 500M RWA vault for the purpose of acquiring USDC vi...	ACCEPTED	External Chat Check
81	Coinbase USDC Institutional Rewards	MIP81 will onboard an account representing MakerDAO to Coinbase Prime and transfer 33% ...	ACCEPTED	External Chat Check
80	The MKR Compensation Guidelines	MIP80 describes how MKR will be used to recruit, retain and align interest in the Maker com...	RFC	External Chat Check
76	MIP76: Makershire Redux	Makershire Redux is a 10M pool allocated across Liquidity Pools to support DAI liquidity/utili...	ACCEPTED	External Chat Check
74	Permissionless Open Market Operations	MIP74 defines the process used to agree and action Permissionless Open Market Operation...	ACCEPTED	External Chat Check
72	RWA - Delegated Collateral Attachment - ...	MIP72 authorizes 6s Capital as a Real World Asset Arranger for MakerDAO to cause commer...	RFC	External Chat Check

Check a Proposal yourself!

<https://mips.makerdao.com/mips/details/MIP84#MIP84c12>

English ✓

MIP84: Activate Protocol-Owned Vault Emulation

[GitHub](#) [Forum](#) [Voting](#)

Sentence Summary

This MIP activates the preliminary implementation of the Protocol-Owned Vault.

Paragraph Summary

This MIP activates the preliminary implementation of the Protocol-Owned Vault, using the Protocol-Owned Vault Emulation (POVE) approach which uses a non-standard configuration of the existing Maker Protocol to achieve the effects of a Protocol-Owned Vault.

Component Summary

MIP84c1: Protocol-Owned Vault Emulation Definitions Defines elements of the POVE.

MIP84c2: Protocol-Owned Vault Administrative Mandate Defines the powers of the administrative team(s) on the POVE.

MIP84c3: Protocol-Owned Vault Acceptable Collateral Defines acceptable collateral and their use within the POVE.

MIP84c4: Protocol-Owned Vault Starting Collateral Defines how the POVE collateral is to be bootstrapped.

MIP84c5: The Collateralization Ratio of the Protocol-Owned Vault Emulation Defines the POVE Debt Ceiling calculation.

MIP84c6: Modify the Collateralization Ratio of the Protocol-Owned Vault Emulation Defines the ability to modify the POVE Debt Ceiling calculation.

Details

MIP#	MIP84
Title	Activate Protocol-Owned Vault Emulation
Status	ACCEPTED
Tags	template, endgame, endgame-prelaunch-mip-set
Date Proposed	2022-09-07
Date Ratified	2022-10-24
Author	@rune
Contributor	@juan
Contributor	@retro
Dependencies	n/a
Replaces	n/a
Type	MIP Type

Recent Changes

🔔 1 Open ✓ 1 Closed

October Ratification Polls outcomes [🔗](#)

#686 by [blimpa](#) was merged 12 days ago

Voting and Ratification

<https://vote.makerdao.com/polling/QmTmS5Nf>

[← Back to All Polls](#) [← Previous Poll](#) [Next Poll →](#)

POSTED OCT 10 2022 16:00 UTC | POLL ID 882 POLL ENDED

Ratification Poll for Endgame Prelaunch MIP Set - October 10, 2022

High Impact Misc Governance **Ratification Poll** MIP Endgame

[Discussion ↗](#)

[Vote Breakdown](#) [Poll Detail](#) [Comments \(6\)](#)

WINNING OPTION: **YES** WITH 113,895 MKR SUPPORTING.

Vote Breakdown PLURALITY POLL ⓘ

Yes	113,895 MKR Voting (80.22%)
No	27,723 MKR Voting (19.53%)
Abstain	353.11 MKR Voting (0.25%)

Voting Stats

Total Voting Power	141,971.459 MKR
Total Votes	122

System Info [See more ↗](#)

Polling Contract	0xD3A9F...b133
Dai Savings Rate	0.01%
Total Dai	6,186,566,337 DAI
Dai Debt Ceiling	8,313,818,538 DAI
System Surplus	75,598,199 DAI

Polling FAQs

- [How to participate in MakerDAO governance? ↗](#)
- [What are Governance Polls? ↗](#)
- [How is voting weight calculated? ↗](#)
- [How to set up your wallet for voting? ↗](#)















General Governance Resources

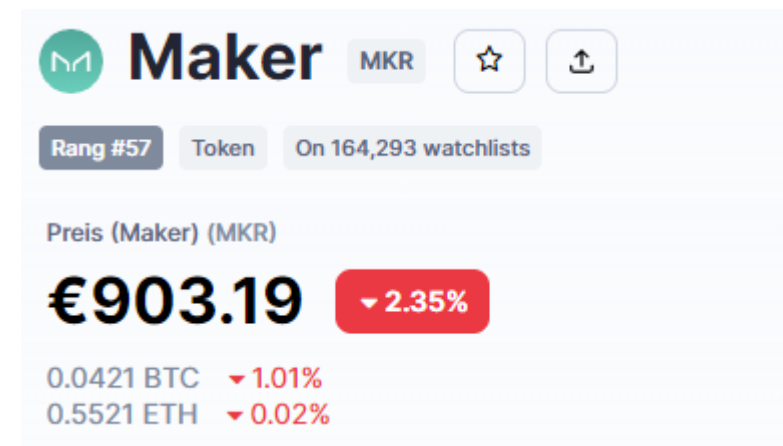
- [Maker Forum ↗](#)
- [Governance FAQs ↗](#)
- [Governance Risk Framework ↗](#)
- [Awesome MakerDAO ↗](#)
- [Governance Call Schedule ↗](#)

Voting by Address

<https://vote.makerdao.com/polling/QmTmS5Nf>

Voting By Address

ADDRESS	OPTION	VOTE %	MKR
 Shadow Delegate	Yes	27.3%	38,758 MKR
 Flip Flop Flap Delegate LLC	Yes	11.7%	16,577 MKR
 0x05e79...6019	No	10.7%	15,160 MKR
 StableNode	Yes	9.2%	13,084 MKR
 schuppi	Yes	8.1%	11,482 MKR
 Flipside Governance	Yes	6.4%	9,017 MKR
 Feedblack Loops LLC	Yes	5.8%	8,268 MKR
 Penn Blockchain	Yes	5.3%	7,489 MKR
 mhonkasalo & teemulau	Yes	4.7%	6,640 MKR
 Hasu	No	4.3%	6,103 MKR
 ACREinvest	No	2.2%	3,100 MKR
 Blockchain@Columbia	No	1.3%	1,813 MKR
 ChicagoDAO	Yes	1.1%	1,500 MKR
	---	-----



Maker MKR

Rang #57 Token On 164,293 watchlists

Preis (Maker) (MKR)

€903.19 ▼ 2.35%

0.0421 BTC ▼ 1.01%
0.5521 ETH ▼ 0.02%

$$38758 * 903 = 35M€$$

Ending it

<https://vote.makerdao.com/esmodule>

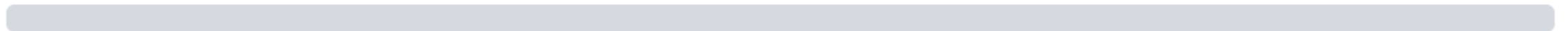


Emergency Shutdown Module

The ESM allows MKR holders to shutdown the system without a central authority. Once 150,000 MKR are entered into the ESM, emergency shutdown can be executed. [Read the documentation here.](#)

Total MKR Burned

0.00052 of 150,000 MKR



No Account Connected

You have no MKR in the ESM



NounsDAO

Decentralized



Based on a public Blockchain



Decentralized on infrastructure level

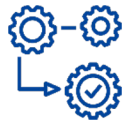


Decentralized on application level

Autonomous



Autonomous Decision making



Autonomous execution



Has Notary



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Smart contract code at the core



Code is open source



Storage of value



Transaction of value



Rewards externals for work

Nouns Auction



← → November 05, 2022

Noun 501

Current bid

≡ 29.00

Auction ends in

2h 57m 18s

i Help mint the next Noun

≡ 29.58 or more

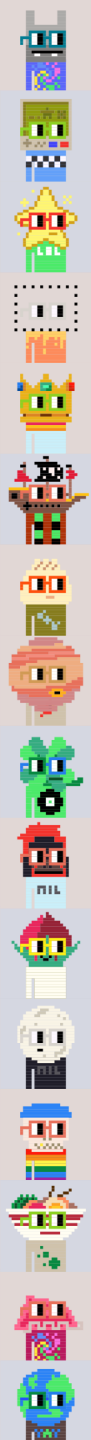
Place bid

 degenbird.eth ≡ 29.00 

 0-0-.-0-0 ≡ 0.69 

 justtheflamingo.eth ≡ 0.06 

[View all bids](#)



Nouns Governance

Treasury

≡ **29,625** | **\$47,988,349.00**

This treasury exists for Nouns DAO participants to allocate resources for the long-term growth and prosperity of the Nouns project.

168 Nouns x MrBeast

🕒 Starts in 2 days

Pending

167 Nouns Builder Protocol

🕒 Ends in 2 days

Active

166 NounsOTG x Stoopid Buddy x Rose Parade

🕒 Expires in 15 days

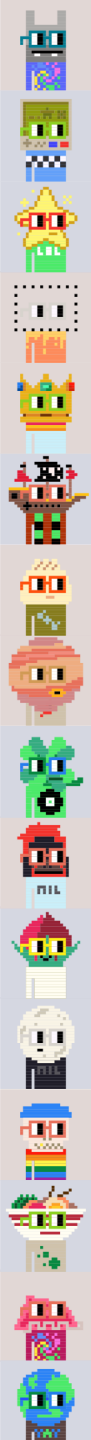
Queued

165 Nouns x Never Sit Still

Defeated





























164 NFT Fest Australia

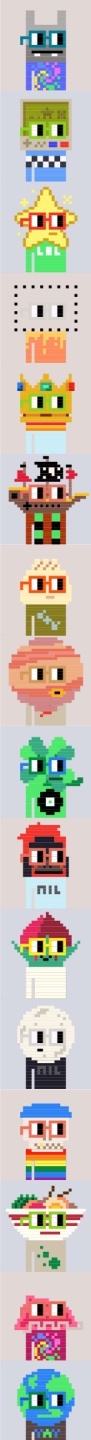
Executed



Preliminary Discussions

<https://discourse.nouns.wtf/>

Topic		Replies	Views	Activity
<p>  Welcome to Discourse</p> <p>Hello and welcome to the Nouns Discourse! Here you'll find longer form discussions and proposals from around the Nouns ecosystem. The NounsDAO will use this place to discuss proposals, proposal members discuss drafts and... read more</p>	 	1	3.1k	Sep '21
<p>NSFW: DinoNouns Interactive On-chain NFT</p> <p> Small Grants</p>	  	8	474	1h
<p>Explorer Grants Trial - 2nd Draft</p>		0	68	19h
<p>Proposal: Pod Production</p> <p> NounsDAO Proposals</p>	   	4	66	20h
<p>NSFW: Nouns Archive Center</p> <p> Small Grants</p>	   	13	589	1d
<p>Looking at helping Obasi John a delegate attend COP27, also to advise soft and bridge solutions (EEPI, Moletech and Carboncleansystems.com as well as End electro-agriculture and brine shrimp to sequester carbon ,increase productivity and provide feedstock</p> <p> NounsDAO</p>	 	4	33	1d
<p>Small Grants: NounsDAO Chinese</p> <p> Small Grants</p>	   	44	731	1d
<p>NounsDAO x Meowki</p>		0	16	1d



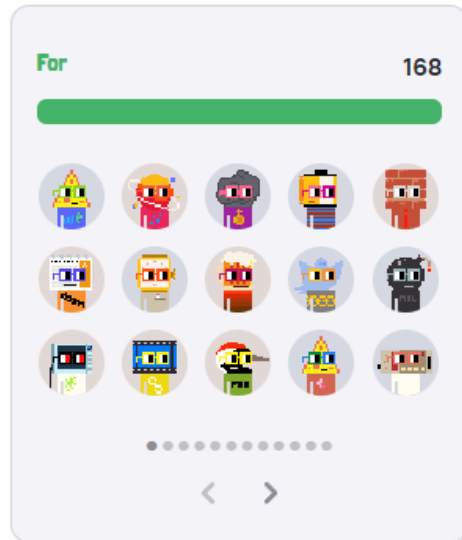
Nouns Voting

← Proposal 162 Executed

Nouns Fair @ ETHSanFrancisco

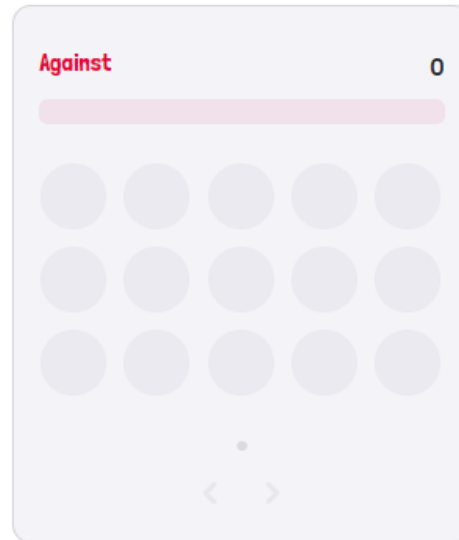
Proposed by [noun22.-](#) at [0xb95ac](#)

Switch to delegate view



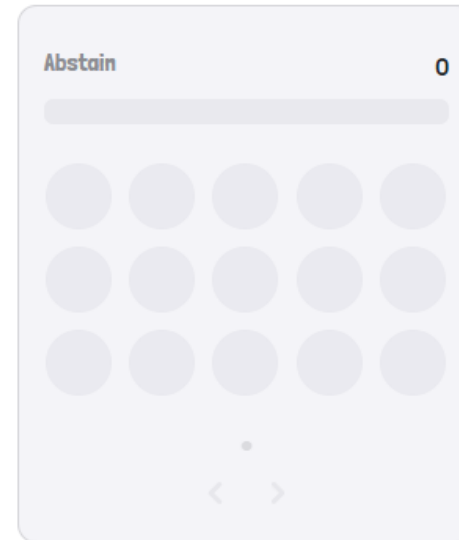
Threshold

Current Quorum
48 votes 🔍



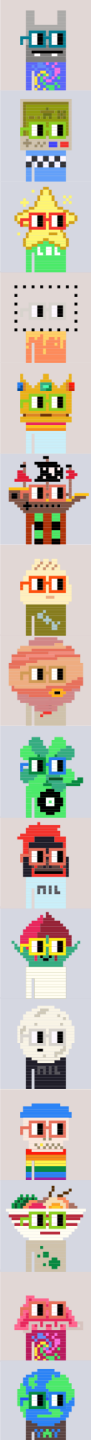
Ended

11:17 AM GMT+2
October 26, 2022



Snapshot

Taken at block
15797966

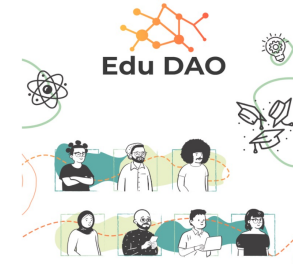


Other notable DAOs



Uniswap

- Governs the Uniswap DEX
- Distributes Grants



EduDAO

- Distributes Funds to Universities
- Connects University Groups



Aave

- Governs the Aave Lending Protocol
- Distributes Grants



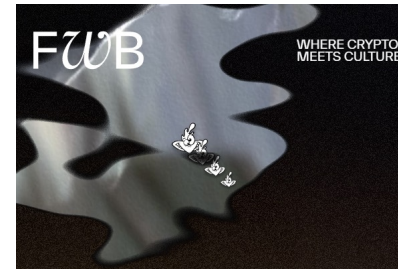
GenesysGo

- Host Solana RPC Infrastructure
- Is an Infrastructure DAO



Gitcoin

- Community for Builders
- Distributes Grants



Friends with Benefits

- Exclusive Community of Individuals
- Entry requires application and a token stake



We are **PretzelDAO** – a community of builders
baked in **Munich** at home in **Web3**.

 @PretzelDAO

PretzelDAO



Decentralized



Based on a public Blockchain



Decentralized on infrastructure level



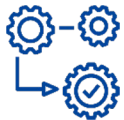
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