



EOSRIO

EOS CHANGE MANAGEMENT

ITU DLT MEET-UP

CHANGE MANAGEMENT DLT-BASED
DECENTRALIZED APPLICATIONS

AGENDA

Chain level governance (EOS Main Net)

Account/Contract level governance (EOSIO Protocol)

DPOS

Delegated Proof of Stake

- › Scalability - tx/s
- › Usability - R\$/tx
- › Flexibility
- › Sustainability

1



Teams become
Block Producer
candidates

2



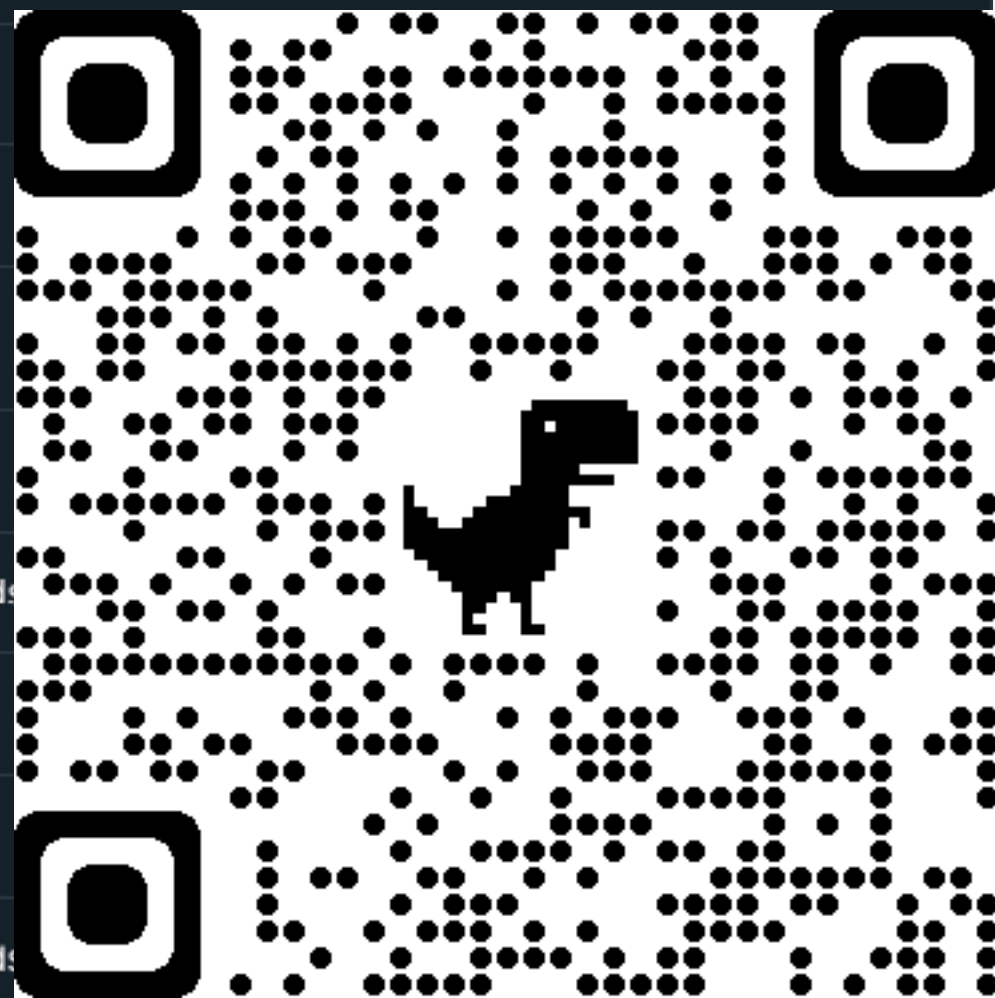
Token holders vote for
Block Producers

3



Top 21 BPs take rounds
producing and validating
blocks (~ 40 paid standby
act as fallback)

Rank	Block Producer	Status	Location	Links	Votes %	Total Votes
1	newdex.bp	Top 21	Cayman Islands	<input type="checkbox"/> <input type="checkbox"/>	3.142 %	345,623,498 +222,863
2	ecsnaticnftw	Top 21	Canada	<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>	3.101 %	341,106,892 +177,250
3	okcapitalbp1	Producing	China	<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>	3.083 %	339,142,701 +217,952
4	atticlabeosb	Top 21	Ukraine	<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>	3.039 %	334,285,900 +180,029
5	bitfinexeos1	Top 21	BVI	<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>	2.98 %	327,809,867 +191,481
6	ecscannonchn	Top 21	China	<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>	2.919 %	321,132,569 +221,099
7	zbeosbp11111	Top 21	China	<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>	2.905 %	319,554,254 +193,106
8	ecshuobipool	Top 21	China	<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>	2.885 %	317,404,066 +217,429
9	helloeoscnbp	Top 21	China	<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>	2.664 %	293,021,109 +236,653
10	ecsraplprod	Top 21	United States	<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>	2.64 %	290,395,966 -209,117
11	ecasia11111	Top 21	Cayman Islands	<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>	2.494 %	274,403,858 -73,731
12	ecseouldotio	Top 21	South Korea	<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>	2.42 %	266,172,555 -952,165
13	blockpooleos	Top 21	China	<input type="checkbox"/>	2.388 %	262,694,838 +197,238
14	starteoslobp	Top 21	China			
15	ecsinfstones	Top 21	United States			
16	eosflytomars	Top 21				
17	whaleex.com	Top 21	Singapore			
18	binancestake	Top 21	Cayman Islands			
19	big.one	Top 21	China			
20	hashfineosio	Top 21	Singapore			
21	eosdotwikibp	Top 21	Cayman Islands			



Decision Model

eosio.prods - Account with dynamic permission for 15/21 Block Producers

eosio.prods controls **eosio.sudo**

Governance actors

BPs

Proxies

Exchanges

Blockone

Media (websites, YouTube, podcasts, etc)

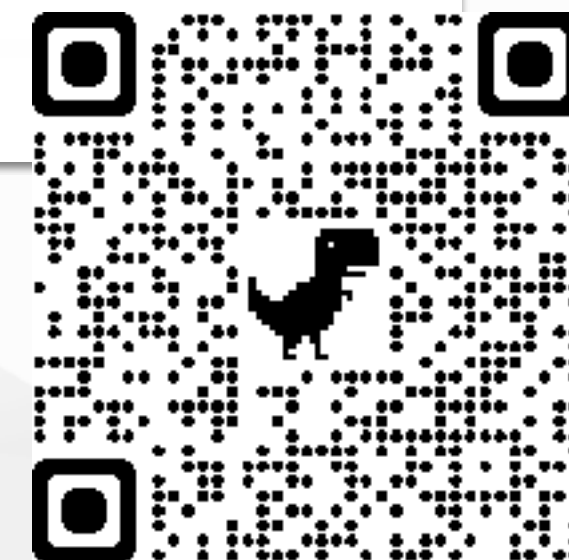
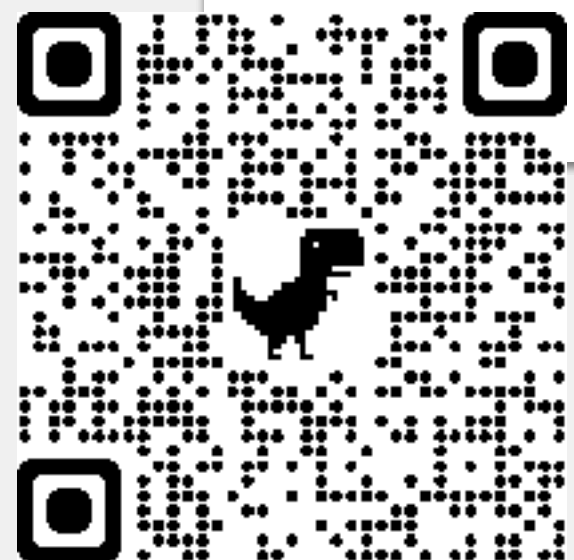
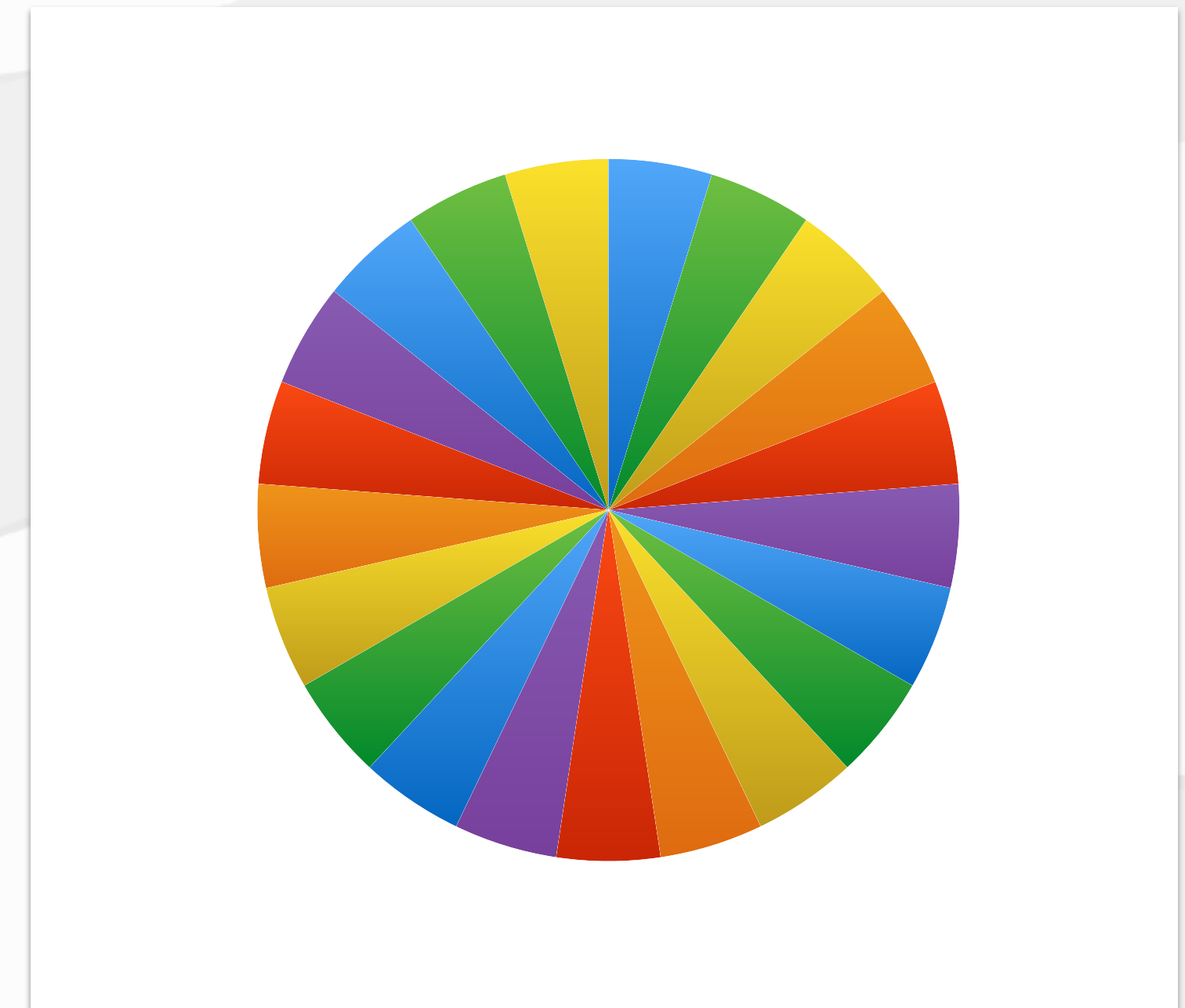
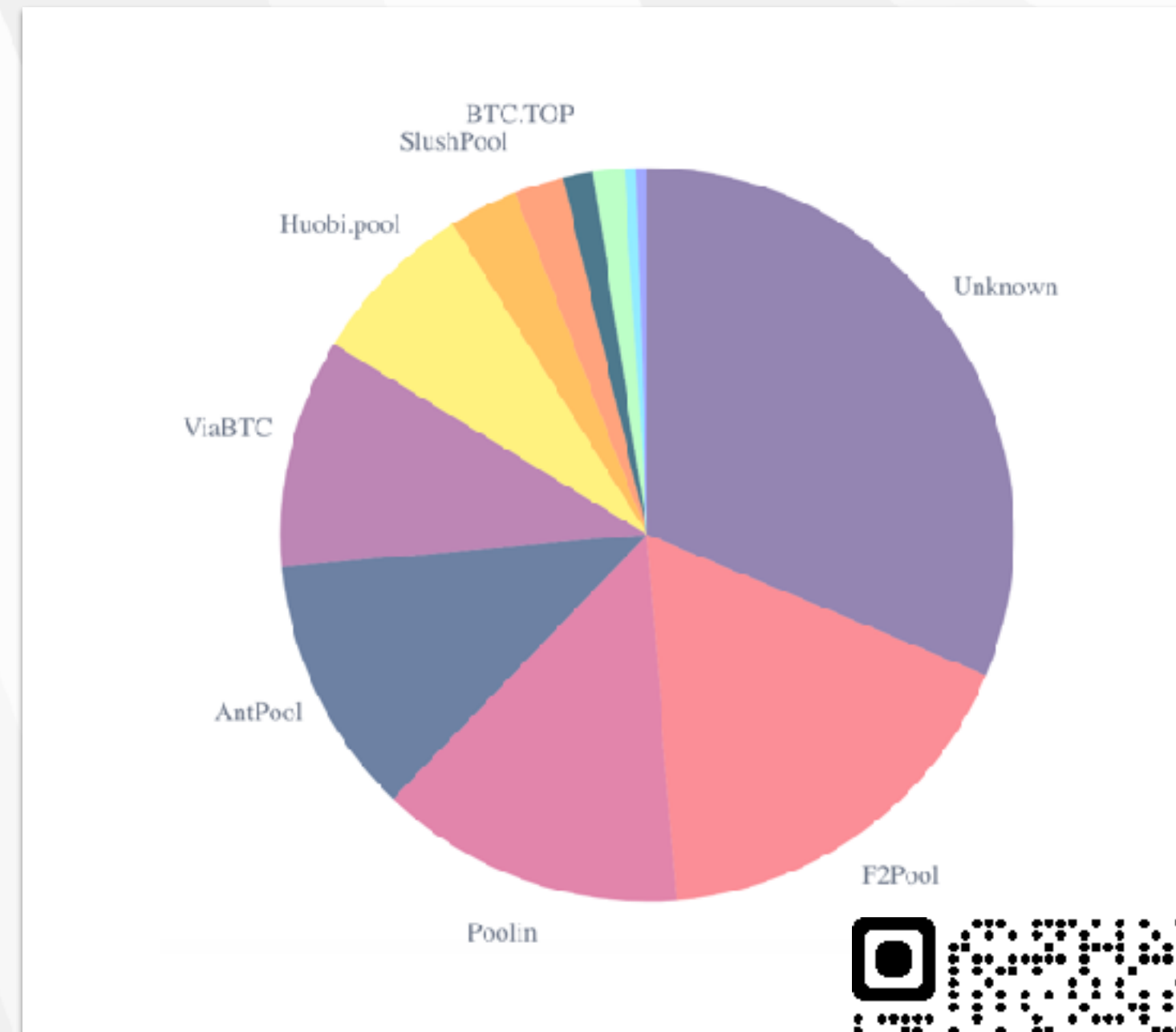
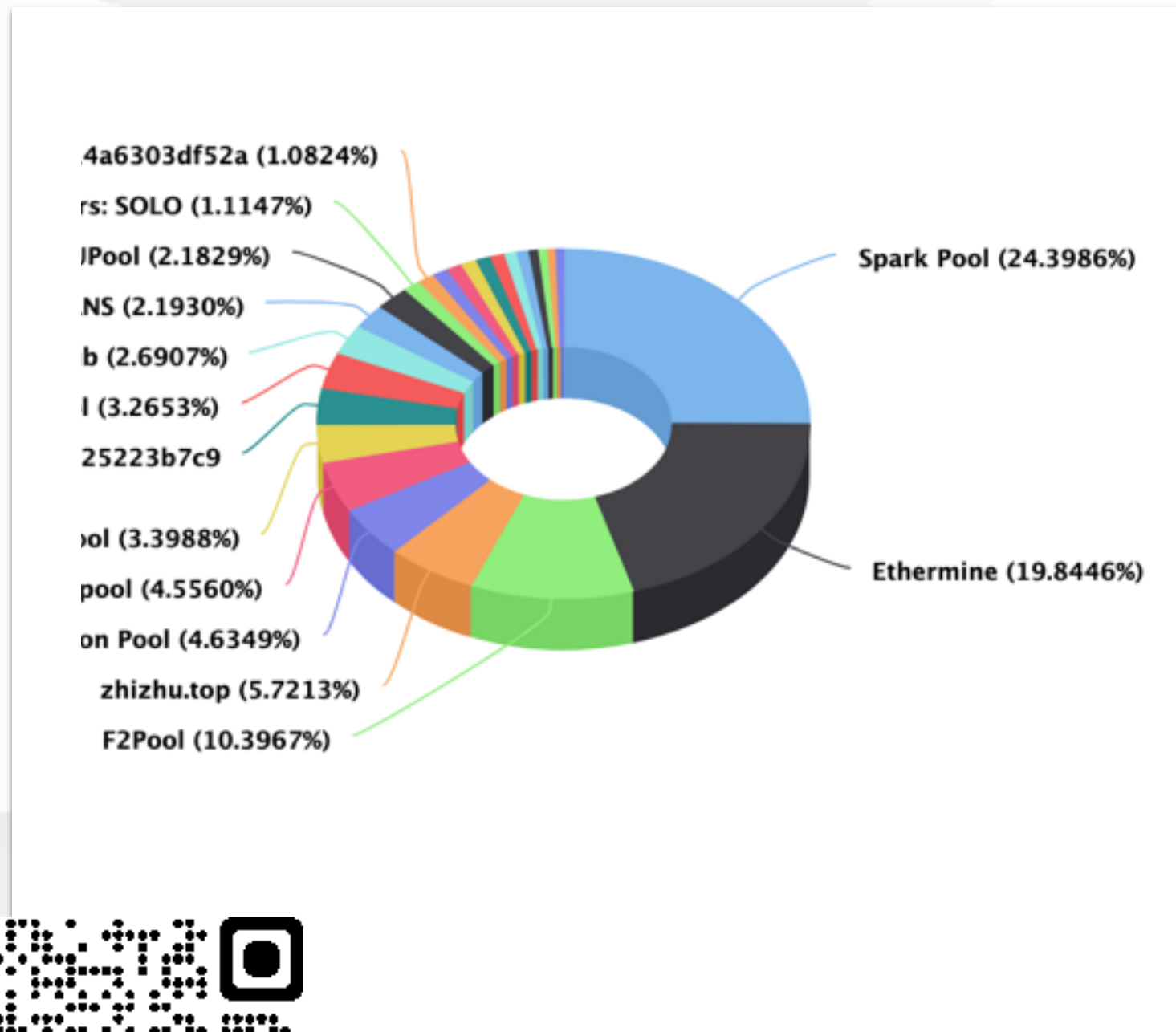
Community (telegram, Wechat)

COMPARED POWER DISTRIBUTION

Ethereum
Implicit

Bitcoin
Implicit

EOS
Explicit



AGENDA

Chain level governance (EOS Main Net)

Account/Contract level governance (EOSIO Protocol)

ACCOUNT PERMISSIONING ON EOSIO



Owner Key

Final ownership of the account

Not needed for most transactions,
should be securely kept offline



Active Keys

Unlimited permissions that can be action
specific

Allow for different security levels and
permission compartmentalisation

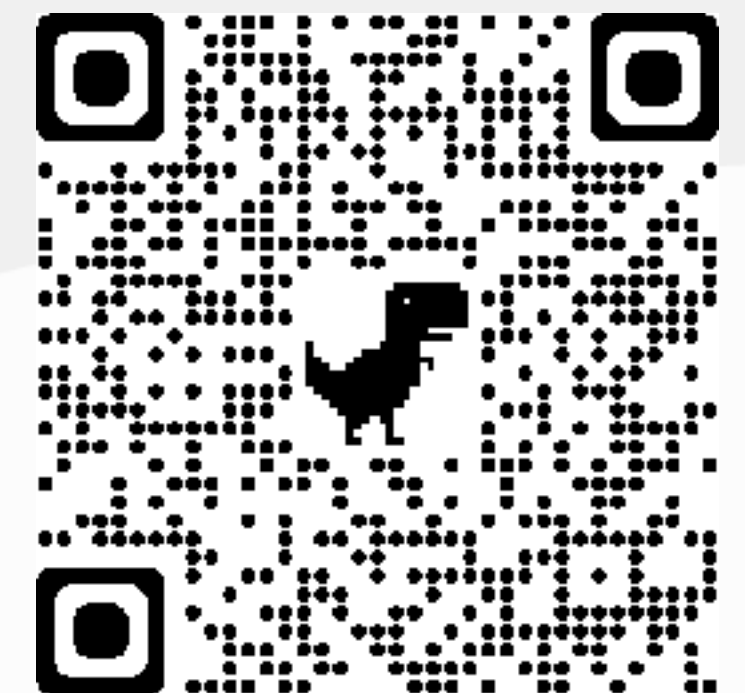


ACCOUNT PERMISSIONING ON EOSIO

Multisig

The screenshot shows the account 'eosdactedac' created by 'gyztgmbthege' 3 years ago. It displays a hierarchical permission structure:

- owner (1)**: +1 `dacauthority @active`
- active (1)**: +1 `dacauthority @active`
- escrow (1)**: +1 `dacproposals @active`. Associated actions: `eosdacescrow::approve` and `eosdacescrow::init`.
- xfer (2)**: +2 `dacauthority @med`, +1 `daccustodian @eosio.code`, +1 `dacproposals @eosio.code`, +1 `60 Minutes (3600 seconds)`. Associated action: `eosio.token::transfer`.



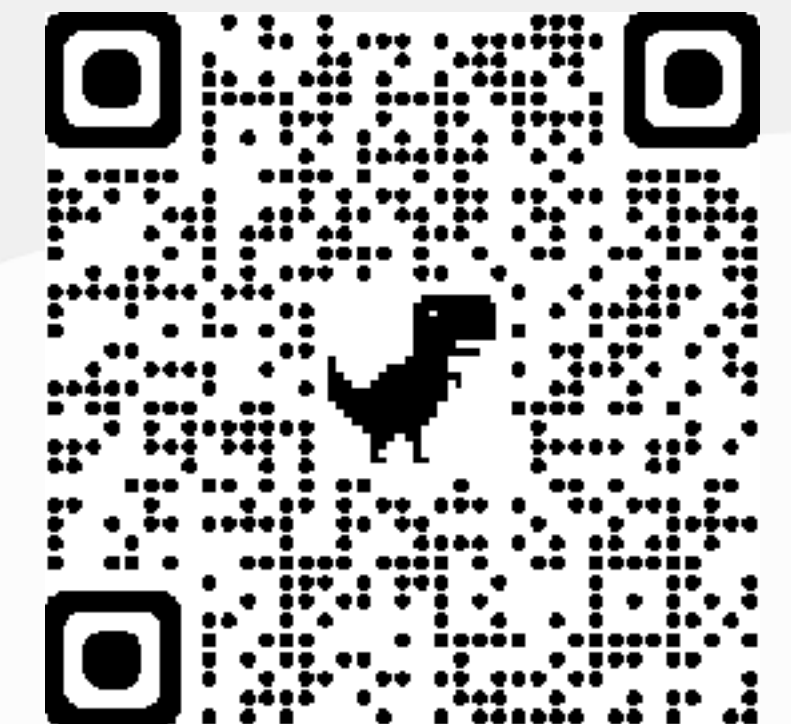
ACCOUNT PERMISSIONING ON EOSIO

Multisig

The screenshot displays a hierarchical account permissioning structure for an EOSIO account. It is organized into four nested levels, each with a list of authorized accounts and a corresponding public key:

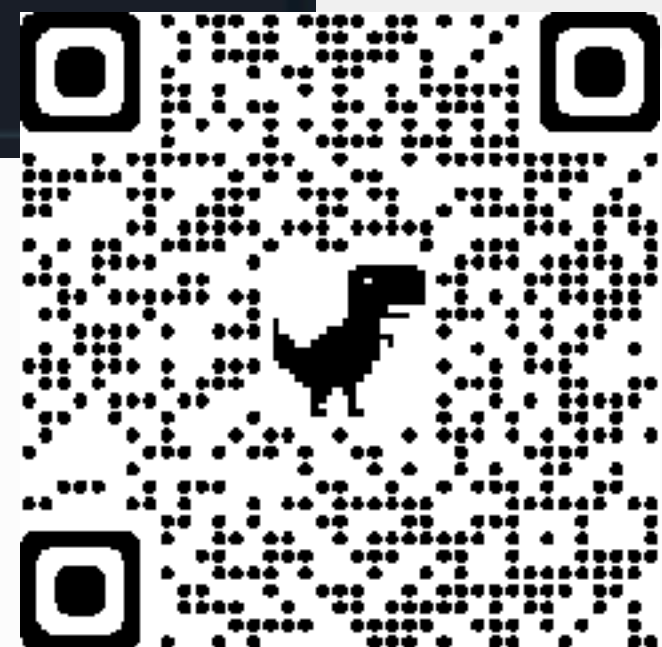
- owner (1)**: +1 daccustodian @eosio.code
- active (1)**: +1 dacauthority @high
- high (7)**: +1 angeljeffrey @active, +1 brockpierce1 @active, +1 criseosdacio @active, +1 dallasjohnso @active, +1 greentreesom @active, +1 jbucksteiner @active, +1 khaleesiwang @active, +1 lcheosdackor @active, +1 lukeeosproxy @active, +1 mryeateshere @active, +1 soycungkimsk @active, +1 spaceinvader @active. Public key: daccustodian::
- med (7)**: +1 angeljeffrey @active, +1 brockpierce1 @active, +1 criseosdacio @active, +1 dallasjohnso @active, +1 greentreesom @active, +1 jbucksteiner @active, +1 khaleesiwang @active, +1 lcheosdackor @active, +1 lukeeosproxy @active, +1 mryeateshere @active, +1 soyoungkimsk @active, +1 spaceinvader @active. Public key: daccustodian::firecand, daccustodian::firecande, daccustodian::firecust, daccustodian::firecuste

The screenshot shows the profile for the 'dacauthority' account on the Multisig platform. It features a circular profile picture with a pink and black geometric design. The account name 'dacauthority' is displayed in white, followed by three small square icons. Below the name, it indicates the account was created 'by gyztgmbthege 3 years ago'.

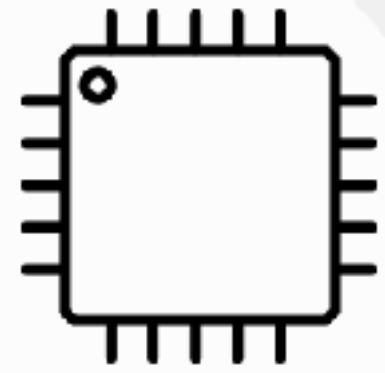


APPLICATION EVOLUTION

TX	Date	Action	Data	<input type="text" value="Search memo..."/>
977a98fb <input type="checkbox"/>	Nov 17, 2020 06:50:39 PM	Set ABI	The ABI was updated. SHA256: bd67ddf96fed2110b0a4cdf92bec3a891c97787d0f1ea294edef4f3d004febb8 Download Readable ABI Download Original ABI	
977a98fb <input type="checkbox"/>	Nov 17, 2020 06:50:39 PM	Set Code	The code was updated. SHA256: 3f2fbe48fc899c791519d0e2f9a9d2a7b9e321e70494c5b169374ef827b47a62 Download WASM	
531fab9e	Nov 06, 2020 03:59:42 PM	eospoltokens - burn	from: polenclrpool memo: Burn now quantity: 27810.00 CLRVID year: 2019	



APPLICATION EVOLUTION



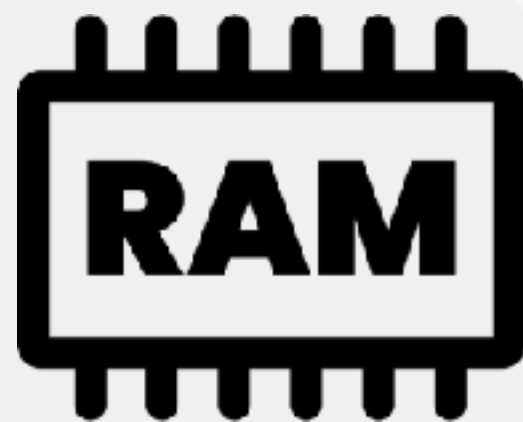
CPU

Refers to the processing power you can use on the EOS network. Measured in ms of processing time on Block Producers



NET

Refers to the network bandwidth you are allowed to use. Measured in kb of data transferred



RAM

Refers to the permanent storage of information on the RAM of Block Producers

Not your RAM, not your data!

PROGRESSIVE DECENTRALISATION OF SMART CONTRACTS

	Objective	Governance
Early Stage	Fast iteration to correct bugs and find product market fit	Centralized on project team
Growth stage	Start offering some decentralisation and rules stability but allow for bug corrections	Multisig with trusted community participants (BPs, Projects, etc)
Later Stage	Achieve full decentralisation as team becomes part of the community	Null Keys / eosio.prods



EOSRIO

OBRIGADO

THIAGO CANELLAS