CryptoCongress

Blockchain-Based Voting Scheme With On-Chain Token Distribution to Trusted Authorities

ENS - cryptocongress.eth
Yoshirou Sho
yoshirou.sho@protonmail.com
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Summary

Forging consensus in distributed and often anonymous blockchain networks is a difficult and delicate task. Nevertheless, verifying digital identities for more formalised decision-making processes may be desirable to advance the state of the art of blockchain technology and to counter organised cyber attacks. CryptoCongress contributes an Ethereum-based voting scheme with novel token distribution to reputable digital identities. Over a fifteen-week process, no less than two-thirds of tokens are distributed to a maximum of 996 digital identities in the cryptocurrency space. The number of tokens allotted to each identity is determined by an algorithmic appraisal of credibility based on quality Twitter followers. These initial tokens are claimed by a smart contract that proves ownership of these known digital identities. In a parallel process, no more than one-third of tokens are distributed to the open market by rolling crowdsale. Transacting parties must own a minimum of tokens to propose measures and vote, limiting voting members. APIs are provided for front-end applications to propose measures, vote, track tokens, and tally votes. Tokens may be traded and gifted. Tokens serve as an incentive for adoption by important stakeholders, a proxy value of CryptoCongress as a procedural tool, and a source of value for second-layer communications and weighted voting by established identities.

1 OVERVIEW

Participation in blockchain networks is entirely voluntary; users may run dissenting software as they choose. However, even on the strongest and most dentralised blockchain networks, most cryptocurrency users are affected by the decisions of a small number of powerful factions. In light of frank disagreements and uncertainty about optimal decision-making for difficult questions about user adoption and technical integrity, the common heuristic rationalisation of "rough consensus" inadequately gauges the perspectives of the most important stakeholders.

Previous voting implementations have attempted to address this shortcoming, but have proved lacklustre. The coin-holder-based voting following the Ethereum DAO hack in 2016, for example, elicited poor coinholder participation and led to a controversial hard fork harmful to the Ethereum community in the long run. Coin-holder votes are often based on the assumption that more coin-holders should receive more votes, regardless of qualification or credibility. Nascent on-chain voting like EOS and Tezos allow users to vote about protocol changes. However these naive solutions implement dangerous technical complications and often give the false impression of algorithmic decision-making, while powerful factions retain *de facto* control.

In light of these failures, Buterin and Weyl (2018) argue that blockchain-based projects demand "governance rules that can avoid the need for large bureaucracies." [1] Buterin and Weyl suggest that by using schemes such as weighted voting and associating known identities to cryptographic identities, we may help bring about improved decision-making for traditional hierarchical networks and distributed blockchain networks.

CryptoCongress is s significant step in this direction. CryptoCongress provides a formalised on-chain method to aggregate the opinions of important stakeholders in the blockchain space. The process proceeds in two concurrent steps. First, CryptoCongress brings together 996 of the top influencers in the cryptocurrency space through a novel on-chain token distribution process to proven and verifiable digital identities. Second, CryptoCongress provides simple and lightweight proposal and voting APIs for tokenholders. These APIs may be used for experimentation with various on-chain voting schemes and messaging services between trusted and important identities in the cryptocurrency space.

1.1 Novel on-chain token distribution process

CryptoCongress provides a novel on-chain token distribution scheme to associate important persons and organizations in the blockchain space with verified cryptographic identities. Associating known identities with cryptographic identities is a job traditionally reserved for certificate authorities. However, this approach suffers from high costs and barriers to entry. Further, only those who wish to make their digital identities known will seek these costly certifications.

Recent technological improvements allow us to improve both the method and incentives involved in the public key certification process. First, the prevalence of online social media accounts—especially Twitter in the cryptocurrency space—provides a reliable method of associating real identity with digital identity. The use of Twitter by important stakeholders in the cryptocurrency space is remarkable: each of the 100 individuals listed on Crypto Weekly's "The Most Influential People in Crypto – 2018 Edition" manage active Twitter accounts. [2]

Other technological developments besides trusted public digital identities aid this improved process. Reliable onchain oracle services allow distributed applications to provably associate off-chain social media accounts with on-chain cryptographic identities. Also, blockchain-based accounting schemes allow us to track these identities in a provable and public manner. Finally, the artificial scarcity of token economics allows us both to bootstrap and incentivise adoption of such a scheme by the most important stakeholders.

CryptoCongress utilises each of these novel tools. The smart contract allocates two-thirds of tokens to the known digital identities of the top 996 influencers in the cryptocurrency space, as judged by an algorithmic assessment of Twitter followers (see "Section 2.2 Determination of initial tokenholders" and "Appendix A, List of initial tokenholders"). No more than one-third of tokens are distributed by a rolling open crowdsale at a fixed exchange rate (See "Section 2.3, Token distribution").

1.2 Proposal and voting APIs

After the cryptographic identities of the most important stakeholders are determined and the crowdsale has completed, CryptoCongress begins its operational state. CryptoCongress provides Proposal and Voting APIs that may be accessed only by tokenholders with a minimum ownership threshold. These functions may be invoked by anyone with access to the Ethereum blockchain. The lightweight Proposal and Voting APIs enable various forms of voting schemes to be built upon the CryptoCongress token as second-layer implementations, such as weighted voting or quadratic voting. (See Section 3.2, Proposal and voting functions and APIs)

2 TOKEN DISTRIBUTION PROCESS

CryptoCongress links known digital identities to cryptographic identities. First, the CryptoCongress smart contract on the Ethereum blockchain stores the hardcoded Twitter usernames and initial token balances of 996 popular identities in the cryptocurrency space. Second, these initial tokenholders have approximately fifteen weeks to prove ownership of these usernames by posting a tweet that contains the "CryptoCongress" keyword, followed by space and a 20-character Ethereum address of which they presumably have custody. Finally, the smart contract uses a third-party on-chain oracle service to get the address posted to Twitter, and then allocates the tokens to this address.

2.1 Token implementation

Tokens are implemented via a standard ERC20 token with the symbol "CC". CryptoCongress tokens implement all of the functions of the ERC20 standard. Tokens are initialised with an implicit hard cap of 131,583,000 tokens. No more than one-third of tokens (43,861,000) is distributed via rolling crowdsale at fixed exchange rate. Token transfers are locked in until after the crowdsale ends.

2.2 Determination of initial tokenholders

An algorithm was developed to measure the reputation of an identity within the Ethereum and cryptocurrency space. [3] The algorithm was implemented as follows:

- 1. Retrieve all of the users that Ethereum cofounder Vitalik Buterin, @vbuterin follows.
- 2. Retrieve all of the users that were followed by at least three of the users that @vbuterin follows. This yields 7,400 users.
- 3. Rank each of these candidate users by credibility using the following process: Divide the number of the users' followers from the population of 7,400 by the one-fifth root of the user's total number of followers, plus one.
- 4. The top 1,000 users by points (including ties) were selected as initial tokenholders. Users with protected profiles, or those not active since 1 August, 2017, were removed.
- 5. Multiply the score by 1,000 for total tokens.
- 6. Example: User @ErikVoorhees has 201,577 total followers and 2,202 followers from the 7,400 user candidate group. This user will receive 192,000 tokens:

$$\begin{array}{c} numberOfTokens = \\ ((eligibleFollowers \div \sqrt[5]{totalFollowers}) + 1) \\ \times 1000 \end{array}$$

numberOf@ErikVoorheesTokens = 192,000 tokens =
$$((2202 \div \sqrt[5]{201577}) + 1) \times 1000$$

Tokenholders are an international mix of public and unidentified individuals, companies, and not-for-profit organizations. The top ten CryptoCongress tokenholders are familiar and reputable names in the space. In addition to these users, 224,000 tokens are allocated to the "_CryptoCongress" username.

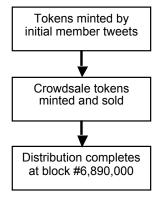
- 1. Nick Szabo \Rightarrow 224,000 tokens
- 2. Zooko Wilcox => 220,000
- 3. Emin Gün Sirer => 215,000
- 4. Balaji S. Srinivasan => 215,000
- 5. Gavin Andresen \Rightarrow 213,000
- 6. Marc Andreessen \Rightarrow 209,000
- 7. Vitalik Buterin => 205,000
- 8. Andreas M. Antonopoulos => 196,000
- 9. Peter Todd =>195,000
- 10. Erik Voorhees =>192.000

This process described above is intended to weigh more heavily the votes of more trusted authorities. While these 996 initial tokenholders may not be the optimal representatives for decision-making ability, in fact there is no optimal group of decision-makers, nor any optimal decision-making process (See Section 4, "Design considerations and risks"). Compared with traditional coin-voting procedures, CryptoCongress offers more merit-based "election to office" for verified identities and a source of value for second-layer voting procedures.

2.3 Token distribution timeline and details

All tokens are distributed through two concurrent processes on the Ethereum main network from block number 6,195,000 to block number 6,890,00 (approximately 16 December, 2018): (1) the *initial token distribution*, by which two-thirds of tokens are allotted to 996 initial influencer who tweet their addresses; and (2) the *anonymous rolling token crowdsale*, by which one-third of tokens are sold via a rolling fixed rate crowdsale to participants at a rate of 50 tokens per 1 ether.

Figure 1. Token distribution process.



As initial token holders claim their tokens and these tokens are minted, more tokens are made available for crowdsale at a ratio of two initial allotment tokens to one crowdsale token. So, no less that two-thirds of all tokens will be owned by the initial token holders and no more than one-third of tokens will be made available to anonymous members by crowdsale. Members of the initial 996 tokenholders may claim their tokens by tweeting "CryptoCongress" followed by a space and their Ethereum address, such as:

CryptoCongress 0xf89833589e7316900631a274e172b2c63d71fa5d

Tokens then may be claimed on-chain by triggering the claimInitialAllotments function. This function accepts the Twitter username of the claiming user and the tweet status ID. The CryptoCongress contract ABI with all public functions may be found online on Etherscan: https://etherscan.io/address/0xb509a146243be41759f5ea1fdf874c1897d0aa44#code.

Ether purchases are handled directly in the CryptoCongress smart contract. Purchases may be made simply by sending ether to *cryptocongress.eth* with no further data required. Purchasers must keep in mind that they must not contribute from an exchange and that they must maintain full custody or their own private keys. If more crowdsale tokens are not available for sale, the transaction will fail and no ether will be accepted. All token creation events may be seen on Etherscan here:

https://etherscan.io/token/0xb509A146243bE41759F5Ea1fdF874c1897D0AA44.

Any unclaimed or unsold tokens by block number 6,890,000 will not be distributed.

3 SMART CONTRACT OPERATIONS

The smart contract, deployed on the Ethereum network at 0xb509a146243be41759f5ea1fdf874c1897d0aa44, is also accessible on the Ethereum Name Service at *cryptocongress.eth*. This contract is optimised to enable immutability and security, as described below.

3.1 Token thresholds and membership

CryptoCongress strictly limits voting participation by requiring that members have minimum thresholds of tokens to participate. To make Proposals, the smart contract requires a minimum ownership of 20,000 tokens. To Vote, the smart contract requires a minimum ownership of 5,000 tokens.

3.2 Proposal and voting functions and APIs

Tokenholders with minimum ownership thresholds may submit Proposals and Vote on Proposals. After the threemonth token distribution process has finished, these procedures constitute the core of the CryptoCongress operations. Votes and proposals are handled by two functions available to anyone who can access the Ethereum blockchain. These two functions emit logs to record actions taken on-chain.

- **Propose function** Proposals accept three data inputs:
 - o _ID unique or semi-unique *string* with maximum length of 280 bytes
 - **Description** *String* with maximum length of 280 bytes
 - o **_Data** arbitrary *string* with maximum length of 280 bytes
- *Vote function* Votes accept three data inputs:
 - ProposaID String with maximum length of 280 bytes, matching the ID of a prior Proposal
 - Vote String with maximum length of 280 bytes
 - o _Data arbitrary string with maximum length of 280 byes

Strings are used as inputs to enable a user-friendly way to propose measures and vote using popular third-party web-based Ethereum services such as MyEtherWallet, without the trouble of having to convert strings to byte arrays or hex format. Strings also make it easier for third-party websites to read the results of Proposal and Vote events into various front-end websites.

3.3 Gas costs

Proposals and votes are implemented as Ethereum events—not in the state of smart contracts—to minimise gas costs, as outlined in Table 1 below.

Ether price	Gas at 2 gwei		Gas at 10 gwei	
Ether price	Proposal	Vote	Proposal	Votes
\$100	<\$0.01	<\$0.01	\$0.05	\$0.05
\$1,000	\$0.02	\$0.02	\$0.10	\$0.10
\$2,000	\$0.04	\$0.04	\$0.40	\$0.40

Table 1 – USD costs for events with 32 byte-length input parameters at various Ether prices (around 34,000 wei per transaction)

3.4 Messaging and auxiliary services

By associating cryptographic identities with verified digital identities, CryptoCongress can enable secure and private off-chain messaging and auxiliary services between trusted stakeholders. This could prove useful in the event of a coordinated attack on blockchain networks or for private person-to-person communication. This service might be most practicably implemented by publishing a cryptographic hash of a PGP public key in, for example, the 280 byte _Data field of a Vote event, as described in Section 3.2. Auxiliary services using the verified identities of important stakeholders may also arise.

4 DESIGN CONSIDERATIONS AND RISKS

CryptoCongress' design takes into consideration ease-ofuse, simplicity, and informational quality. Important design considerations include uncoupling voting from on-chain code decisions, using social media reputation as a proxy measure of decision-making ability, and allowing for anonymous purchases of tokens during the crowdsale. Every software design has trade-offs, and so CryptoCongress network participants should be aware of certain benefits and risks arising from these trade-offs.

4.1 Voting uncoupled from code

Unlike popular nascent blockchain implementations such as Tezos and EOS, CryptoCongress chooses not to tightly couple voting to on-chain code. The first reason for this feature is simplicity. Even highly qualified smart contract programmers may make ruinous mistakes. Parity, cofounded by the author of the Ethereum technical foundations, Gavin Wood, suffered two multsiginature wallet vulnerabilities—separated by several months—in 2017 costing its users many millions of ether. We suggest that systems tightly coupled to convoluted governance schemes such as EOS and Tezos may suffer large hacks in the near future. Further, tightly coupling on-chain voting to on-chain code changes gives incentive for malicious actors to spam networks and find vulnerabilities.

Finally and most importantly, on-chain decision-making may in fact mask the actual capabilities of powerful factions such as miners, exchanges, and developers. Developers with control over important codebases, for example, may unilaterally push changes to the most widely used clients. Miners with significant hash power may choose to run clients as they choose. While on-chain voting in systems such as Tezos or EOS may purport to solve some of the governance issues in blockchain development, it is more likely that off-chain aggregation of opinion or unilateral action shielded by a veneer of legalism will in fact be the primary driver of on-chain code changes. The points above make the idea of tightly coupled on-chain voting as used in these systems either unnecessary, technologically fatal, or haphazardly mistaken.

4.2 Limited reliance on third parties during token distribution phase

The CryptoCongress smart contract, during the fifteenweek token distribution process, relies on two third parties to assist with the verification of online identity. Third parties are known to be security holes and so this design consideration should be addressed. [4]

First, CryptoCongress relies on Twitter to provide reliable service to allow its users to post tweets, and prevent hacking that could sabotage the disbursement process. For example, users' Twitter passwords may be stolen. Twitter could also change its website design, rendering the smart contract oracle obsolete. By limiting the token distribution process to several months, CryptoCongress' design minimises these risks.

Second, CryptoCongress uses a reliable on-chain oracle service, Oraclize, to bring the off-chain Twitter data into its on-chain smart contract. Oraclize has served over 500,000 requests without evidence of fraud. Authenticity proofs are emitted as events for each request, to help verify the correct behaviour of Oraclize. The Oraclize service is only used during fifteen-week token distribution process, so users will know quickly whether there have been any problems with the initial allotment distribution.

4.3 Twitter popularity does not imply decisionmaking acumen

CryptoCongress' algorithm to determine credibility for its initial tokenholders makes an assumption that popularity judged by quality Twitter followers somehow implies technical know-how or decision-making acumen. CryptoCongress makes no strong claim that this is the optimal approach for decision-making, though we do claim that this process is marginally better than existing alternatives such as coin-holder voting or complicated voting schemes found in Tezos or EOS. The algorithm resembles an early Google PageRank algorithm, insofar as it crowdsources the quality of initial CryptoCongress members based on the organic behaviour of relevant social network users.

4.4 Minimal token ownership by creators

CryptoCongress creators have pre-allocated a small number of CryptoCongress tokens to themselves, equal in value to the amount of tokens granted to the top CryptoCongress initial tokenholder, Nick Szabo. This design decision was made to maintain the decentralised nature of the voting rights.

4.5 Lock-in time for token transfers

CryptoCongress' value will derive primarily from the network effects following adoption by important stakeholders. As such, the smart contract locks the ability to trade tokens until the crowdsale finished and the maximum network effect has had time to develop.

4.6 More formalised decision-making processes may prevent better technical solutions

Users must keep in mind that blockchain-based projects are essentially anarchical in nature. Formalised decision-making procedures found in CryptoCongress' design have no legal or technological binding. While the CryptoCongress authors question on-chain voting procedures like EOS or Tezos, an overreliance on any one method of informational aggregation may come at the cost of better technical solutions.

4.7 Anonymous token purchases and privacy

CryptoCongress allows for members to participate in its operations anonymously. Users may simply send ether to the *cryptocongress.eth* Ethereum address. Ether will only be accepted—and tokens only disbursed—if upon completion of the potential token sale, no less than two-thirds of tokens will have been allocated to the initial tokenholders. If this threshold would be exceeded by the potential sale, sent ether is refunded to the sender. These private purchases enable users to participate in CryptoCongress proposals and votes without having to associate any real identity to their tokens.

In contrast to the above efforts to secure anonymous participants, the 996 initial CryptoCongress members should recognise the converse privacy consideration: that by associating an Ethereum address with their verified online identity, they must exercise caution when using the same Ethereum address in other transactions, as any subsequent transactions will be tied to their online identity.

5 LEGAL

This document shall not and cannot be considered as an invitation to enter into an investment. CryptoCongress should not in any way be considered as an offering of a security in any legal or regulatory jurisdiction. The offering of CryptoCongress tokens is done in order to enable and allow for the use of CryptoCongress as an informational and procedural tool operated on the Ethereum blockchain, and not for speculative purposes. Development of CryptoCongress code, aside from thirdparty front-end implementations, is largely complete. Any information in the whitepaper is provided for general information purposes only. CryptoCongress does not provide any warranty as to the accuracy and completeness of this information and encourages all users to examine all code and information sensibly before participating.

6 SUMMARY

By putting a token-based bounty on proving of the ownership of important digital identities in the cryptocurrency space, a small group of important cryptocurrency users can jumpstart and scale the use of secure voting tools among previously unconnected parties. In theory, Ethereum and other cryptocurrencies lack authorities to adjudicate disputes. In practice, cryptocurrencies often rely on powerful factions like miners, exchanges, and developers to implement code changes or upgrades. Rather than reinforcing these powerful factions, CryptoCongress offers a means to decentralise decision-making processes, while at the same time ensuring the informational quality of results by limiting membership to reputable and verifiable identities. Various auxiliary open-source messaging tools and voting schemes may be developed on top of CryptoCongress. Development of CryptoCongress is largely complete. Token distribution is ongoing as of publication of this whitepaper. When the token distribution is finalised by Ethereum block #6,890,000 CryptoCongress will become fully operational.

7 REFERENCES

- [1] Buterin, V., Weyl, G. "Liberation Through Radical Decentralization"

 https://medium.com/@VitalikButerin/liberation-through-radical-decentralization-22fc4bedc2ac
- [2] The algorithm can be found at: https://github.com/abramsymons/Cryptocongress/bl ob/master/main.py
- [3] Crypto Weekly. "The 100 Most Important People in Crypyto- 2018 Edition." https://cryptoweekly.co/100/
- [4] Sazbo, Nick. "Trusted Third Parties are Security Holes." 2001. https://nakamotoinstitute.org/trusted-third-parties
- [5] Buterin, Vitalik. "Notes on Blockchain Governance." 17 Devember 2017. https://vitalik.ca/general/2017/12/17/voting.html
- [6] EOS whitepaper. 28 April 2018. https://github.com/EOSIO/Documentation/blob/master/TechnicalWhitePaper.md
- [7] Tezos whitepaper, 3 August 2014. https://tezos.com/static/papers/position_paper.pdf

Appendix A: List of initial tokenholders

Rank	Twitter Username	Tokens
1	NickSzabo4	224000
2	zooko	220000
3	el33th4xor	215000
4	balajis	215000
5	gavinandresen	213000
6	pmarca	209000
7	VitalikButerin	205000
8	aantonop	196000
9	peterktodd	195000
10	ErikVoorhees	192000
11	jgarzik	189000
12	VladZamfir	185000
13	leashless	185000
14	jonmatonis	183000
15	barrysilbert	182000
16	twobitidiot	181000
17	FEhrsam	180000
18	adam3us	179000
19	starkness	176000
20	ofnumbers	176000
21	msantoriESQ	175000
22	ethereumproject	175000
23	ethereumJoseph	170000
24	brian_armstrong	169000
25	simondlr	169000
26	ConsenSys	167000
27	prestonjbyrne	167000
28	jerrybrito	164000
29	gavofyork	163000
30	mikejcasey	163000
31	Blockstream	162000
32	niccary	162000
33	socrates1024	161000
34	ryanxcharles	160000
35	TuurDemeester	159000
36	ryaneshea	157000
37	juanbenet	156000
38	PanteraCapital	156000
39	rogerkver	156000

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442	DanielleMorrill	80000
443	ljxie	80000
444	normative	79000
445	brianbehlendorf	79000
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452	zeynep	79000
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534	bgurley	74000
535	haq4good	74000
536	WIRED	74000
537	jack	74000
538	FollowTheCoin	74000
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548	sbmeunier	73000
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558	mgsiegler	72000
559	garrytan	72000
560	AnnieLowrey	72000
561	Ragnarly	72000
562	Ctzn5	72000
563	BitCoinSusan	72000
564	chainyoda	72000
565	FredericJacobs	72000
566	bartongellman	72000
567	bitentrepreneur	72000
568	oraclizeit	72000
569	0xProject	72000
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