ETHO PROTOCOL

WHITEPAPER

#FREEDOM OF DATA

Table of Contents

1. Important Links

OFFICIAL WEBSITE

https://ether1.org

BITCOINTALK ANNOUNCETHREAD

https://bitcointalk.org:topic3725742

GITHUB

https://github.com/ether1project

BLOCK EXPLORER 1

https://explorer.ether1.org

BLOCK EXPLORER 2

https://blocks.ether1.org

WEB WALLET

https://wallet.ether1.org

NETWORK STATISTICS

https://stats.ether1.org

NODE DASHBOARD

https://nodes.ether1.org

ETHO PROTCOL UPLOADS

https://ethofs.com
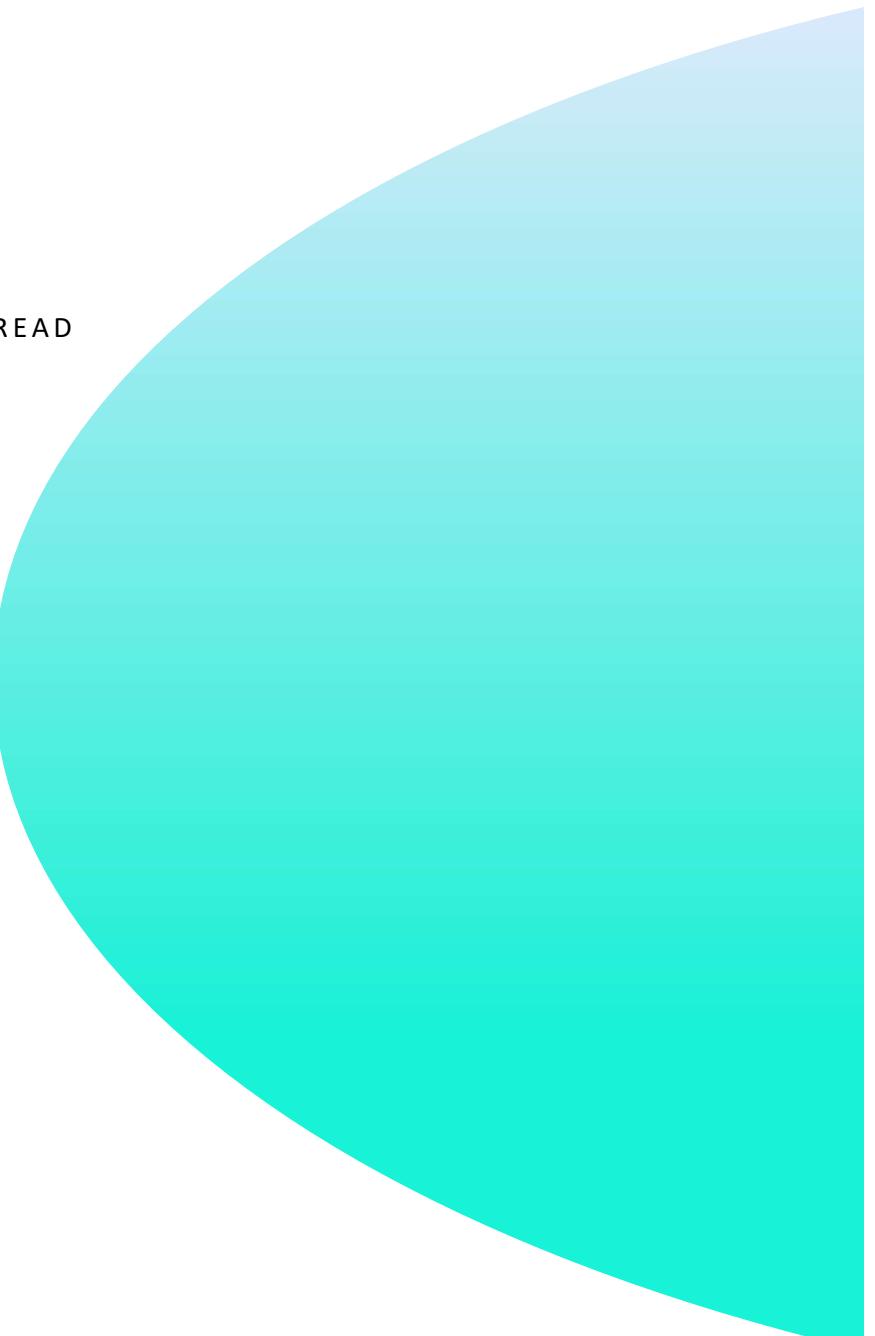
**OFFICIAL PROJECT EMAIL**

admin@ether1.org

2. Abstract

The Etho Protocol aims to completely disrupt how information is shared and controlled on the internet. It aims to decentralize all aspects of its footprint, including (1) a community stakeholder, node based governance system, (2) a distributed pow blockchain base layer with smart contracts (3) successive layer 2 solutions built on top of (2), providing services which greatly augment utility. The first example of (3) is the Etho Protocol decentralized storage network, a global highly redundant file system. Imagine a world where all content is completely held in the public domain, 100% immutable and distributed across a completely decentralized node network. Imagine an on-chain voting system which allows all participants to determine all aspects of the project's governance with complete transparency. The idea of a completely decentralized and democratized internet is not only a utopian dream but is now fully achievable, through a united tribe of node operators, community members and coin holders who enjoy freedom and work hard in an atmosphere of non-enforced collaboration based on a shared passion for decentralization.

3. Disclosure

The Etho Protocol had no ICO or pre-sale, no pre-mining of any coins or any other methods of obtaining coins prior to the main-net launch. This document has been created to outline our vision and direction for this project and is meant to be read in conjunction with our website and other available media which can be found at the bottom of this document. Nothing herein constitutes an offer to sell, or the solicitation of an offer to buy, any tokens, nor shall there be any offer, solicitation or sale of anything in any jurisdiction in which such offer, solicitation or sale would be unlawful. Although this document contains our current vision for the project, this vision will be ever-evolving as blockchain technology is still in its infancy and constantly evolving itself. All aspects of the project are intended to be decentralized, and as such, no single person or entity should be able to control its direction.

4. The Problem

1. Free-speech and anti-censorship are the cornerstones of any democracy but with the rise of de-platforming and online censorship, media platforms our society relies on are becoming more and more unreliable for the average user.

2. Free-flowing information and ideas are almost always catalysts for the next stages of societal evolution as well as exponential technological growth.

3. Online censorship today ranges from something as small as a single blocked tweet all the way up to a full corporate website being banned if the messaging doesn't fit an individual platform's definition of proper

5. The Solution

1. Decentralize content & storage hosting, so no single entity has control over what is appropriate.

2. Utilize community and user consensus to moderate this decentrally stored content.

3. Create and maintain A closed-loop economy around steps one and two to encourage participation, reward contribution and network utilization.

6. Technology & Network Functionality

The Etho Protocol is a decentralized network to its core and is built utilizing a fork of Ethereum, making it fully EVM compatible. This means that any application or solidity contract that can be deployed on Ethereum can be deployed using the Etho Protocol with the added benefit of being able to store decentralized data on a wider network build for immutability.

The consensus mechanism is Ethash POW (proof-of-work) and the network is powered by utilizing the native currency (ETHO). This currency will offer the incentive to both publicly contribute to the consensus mechanism along with incentivizing the deployment and operation of collateralized nodes to provide computational and storage resources to the network.

Each individual node deployed on the network will contribute resources to the decentralized storage network and provide security by maintaining the network state via blockchain. In return for deploying nodes and providing resources to the network, node operators will be rewarded with a portion of each block mined by Ethash POW miners thus incentivizing and facilitating network growth.

Decentralized content & storage network

At the core, the Etho Protocol is built on top of an EVM (ethereum virtual machine) blockchain, utilizing a hybrid POW (proof-of-work) consensus mechanism and a network of community owned collateralized nodes which all contribute storage and bandwidth to the network.

Decentralized governance for content moderation

Pure free-speech and anti-censorship comes at the cost of any piece of data being allowed on the network unchecked. We balance this with allowing collateralized node/network participants to moderate content based on on-chain decentralized voting. Governance participants are rewarded for their participation in the system.

Economy Built to Reward Participation and Utilization

All network participants are rewarded monetarily in our native coin (ETHO) for their contributions. Collateralized node owners and miners are all rewarded each block with a share of the block reward. Node owners also receive a reward for storing any decentralized data uploads.

7. Network Specifications & Economic Policy

Consensus Algorithm: Ethash/Dagger (Proof-of-Work)

Target Block Time: 13 Seconds

Native Smart Contract Language: Solidity

Network ID: 1313114

Public RPC Server: https://rpc.ether1.org

Economic Policy

Monetary and economic policy for the network revolves around ultimately arriving at a perpetual emission of 1 ETHO per block. This milestone will be reached after the first 10 million blocks are mined and will result in a total coin circulation of just under 70 million ETHO by block 20 million. Between blocks 1 and 10 million, every one-million blocks, the reward will be reduced in order to reduce the overall emission of coins along with allocating a larger portion to node owners in order to further reward network participation and utilization. Allocating a larger percentage of the block reward to node owners is extremely important as time goes on because as network utilization grows, they will be providing an increased value to the network and network security.

Economic Policy Summary

1. Largest reward percentage ultimately going to node operators

2. Supply cap of just under 70 million ETHO (at block 20 million)

3. Block reward decreases every 1 million blocks (until block 10 million) while allocating a larger portion to node operators over time
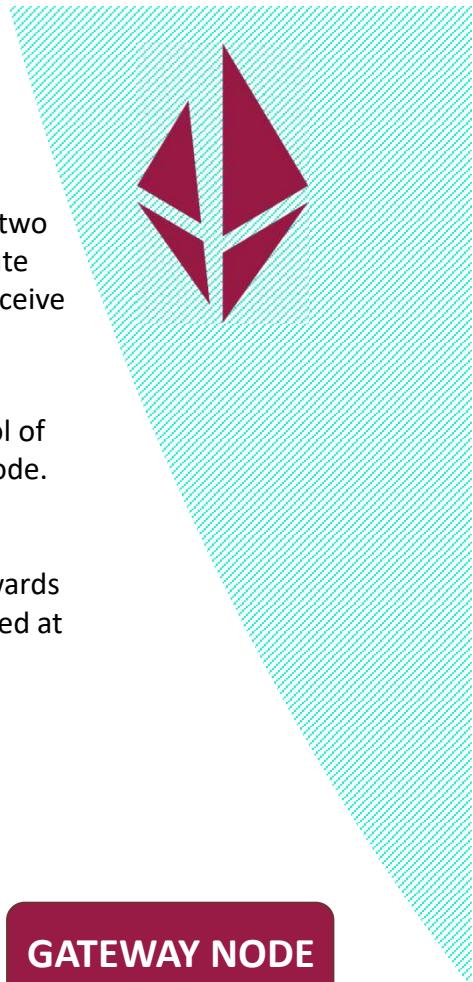
Coin Emission Schedule

Block Height	Mining Reward	Node Reward	Treasury Reward	Total Reward	Total ETHO in Circulation (Assuming 3.0% Uncle Rate)
0	10	2	1	13	0
1000000	8	2	1	11	13390000
2000000	6.4	2	1	9.4	24720000
2700000	5.6	2.8	1	9.4	31497400
3000000	4.5	2.6	1	8.1	34402000
3800000	2.4	2.4	1	5.8	41076400
4000000	1.8	1.9	1	4.7	42271200
5000000	1.25	1.4	0.8	3.45	47112200
6000000	0.8	1	0.65	2.45	50665700
7000000	0.6	0.8	0.5	1.9	53189200
8000000	0.45	0.65	0.35	1.45	55146200
9000000	0.3	0.5	0.25	1.05	56639700
10000000	0.3	0.5	0.2	1	57721200
11000000	0.3	0.55	0.15	1	58751200
12000000	0.3	0.55	0.15	1	59781200
13000000	0.3	0.55	0.15	1	60811200
14000000	0.3	0.55	0.15	1	61841200
15000000	0.3	0.55	0.15	1	62871200
16000000	0.3	0.55	0.15	1	63901200
17000000	0.3	0.55	0.15	1	64931200
18000000	0.3	0.55	0.15	1	65961200
19000000	0.3	0.55	0.15	1	66991200
20000000	0.3	0.55	0.15	1	68021200

8. Etho Protocol Nodes

Etho Protocol nodes are the backbone of the network. There are two major categories of nodes; mining nodes and nodes that contribute storage/bandwidth resources to the network. Both node types receive rewards for their network contributions.

Collateralized (non-mining) nodes maintain blockchain security, manage decentralized data/storage and give democratized control of the network to anyone who choses to participate and deploy a node. For their contribution to the network, each of these nodes are rewarded a portion of the block reward along with a reward for hosting any decentralized data/content on the network. Daily rewards can be seen at https://ethoprotocol.org and nodes can be deployed at https://nodes.ether1.org.

Collateralized Node Types

SERVICE NODE

ACTS AS DATA RELAY
SECURE THE ETHO
BLOCKCHAIN

COLLATERAL REQUIRED:
5000 ETHO

REQUIREMENTS:
20G SSD
1G RAM
STATIC PUBLIC IPV4

MASTERNODE

PROVIDE STORAGE &
PROCESSING
SECURES THE ETHO
BLOCKCHAIN

COLLATERAL REQUIRED:
15000 ETHO

REQUIREMENTS:
40G SSD
2G RAM
STATIC PUBLIC IPV4

GATEWAY NODE
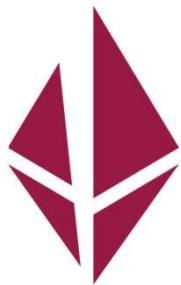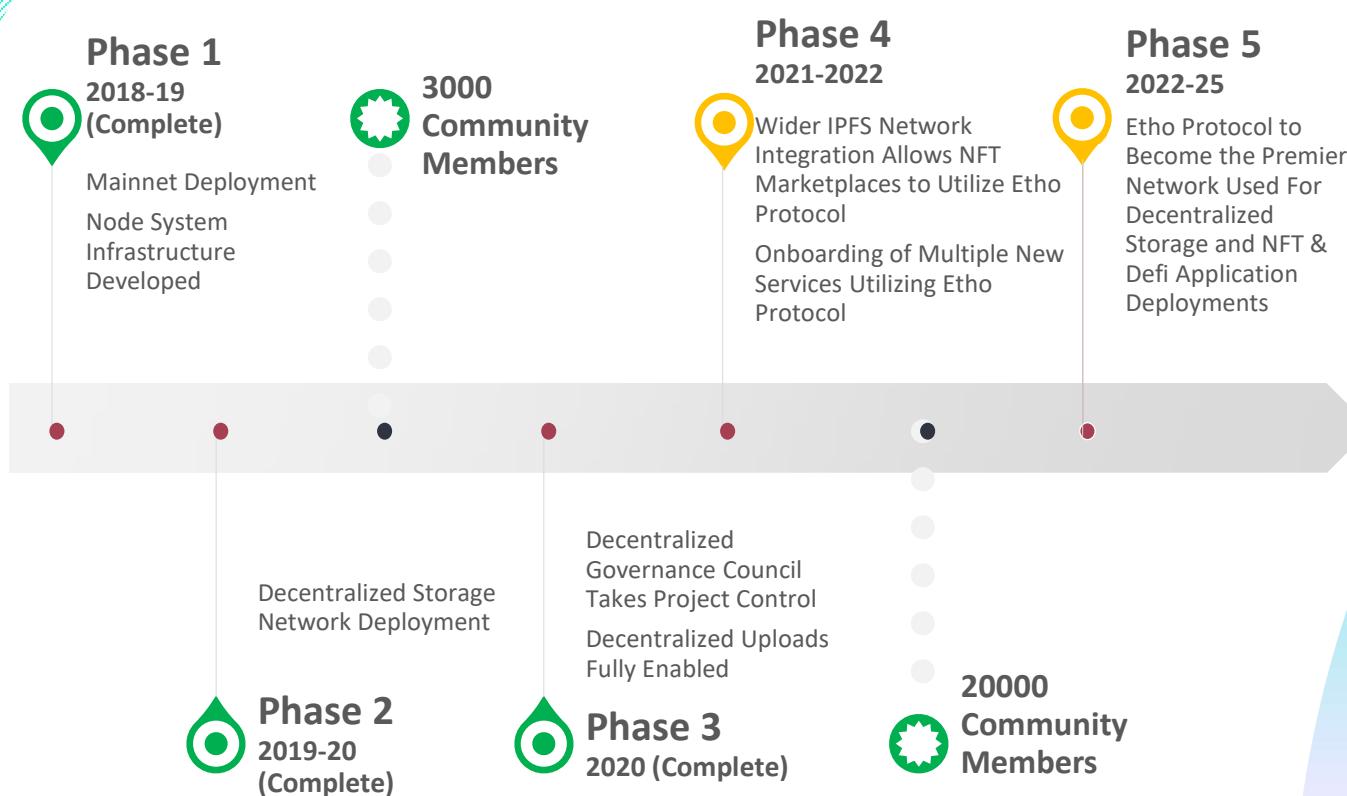
PROVIDE STORAGE &
PROCESSING
SECURE ETHO BLOCKCHAIN
GATEWAY TO DECENTRALIZED
ETHO PROTOCOL DATA

COLLATERAL REQUIRED:
30000 ETHO

REQUIREMENTS:
80G SSD
4G RAM
STATIC PUBLIC IPV4

9. General Roadmap

Phase 1
2018-19 (Complete)

Mainnet Deployment

Node System Infrastructure Developed

3000 Community Members

Phase 4
2021-2022

Wider IPFS Network Integration Allows NFT Marketplaces to Utilize Etho Protocol

Onboarding of Multiple New Services Utilizing Etho Protocol

Phase 5
2022-25

Etho Protocol to Become the Premier Network Used For Decentralized Storage and NFT & Defi Application Deployments

Decentralized Storage Network Deployment

Phase 2
2019-20 (Complete)

Decentralized Governance Council Takes Project Control

Decentralized Uploads Fully Enabled

Phase 3
2020 (Complete)

20000 Community Members

10. Social Media

- Twitter: https://twitter.com/Ether1Official

- Instagram: https://instagram.com/ether1official

- Facebook: https://facebook.com/Ether1Project

- Medium: https://medium.com/@Ether1Official

- YouTube: https://youtube.com/c/ether1

- Reddit: https://old.reddit.com/r/etho1

- Telegram: https://t.me/Ether_1

- Telegram Announcements: https://t.me/Ether1News

- Official Email: admin@ether1.org

11. Conclusion

We have identified a very complex issue plaguing our society today; and this project aims to very directly address and fix this problem. By leveraging a great team, existing and new technologies and the power of public consensus we will be able to change not only the way we store and access data,but will fundamentally change how this data can and will be used. Special thanks to all community members who help us get close to our shared vision.