



# ARAGON

Development plan



The screenshot shows the Aragon Dapp interface. On the left, a sidebar lists various organizational management functions: Home, Ownership, Voting, Roles, Fundraising, Accounting, Bylaws, and Settings. The main area displays a cap table for a company with stock class 'CVS'. It includes a search bar, a 'Transfer tokens' button, and a 'Shareholder details' modal. The modal for 'Holy Water' shows the shareholder 'Me' holding 10,000,000 shares. A chart titled 'Transferrable shares (vesting)' plots share count against time, starting from 'a few seconds ago' and reaching 10,000,000 shares by 'a month'.

Shareholder	Stock class	Shares
Company reserves	CVS	0
Me	CVS	10000000
Holy Water	CVS	50001

Shareholder details

Holy Water  
0xe730b30256bd9d3f5cbfdad0f564307876acd25

Stakes

- CVS: 50001 (Transferable: 50001)

Transferrable shares (vesting)

The chart shows a curve starting at zero and increasing exponentially towards 10,000,000 shares over a period of one month. The x-axis is labeled with time intervals: 'a few seconds ago', '3 days', '7 days', '10 days', '13 days', '17 days', '20 days', '23 days', and 'a month'. The y-axis is labeled with share counts from 0 to 10,000,000 in increments of 1,000,000.

## Introduction

Aragon is everything you need to run organizations (companies, NGOs, foundations, open source projects...) on the Ethereum blockchain. It implements features like a cap table, token transfers, voting, roles, fundraising and accounting. Aragon organizations are easily customizable, and they are also extensible by installing third party modules.

Aragon organizations will be able to opt-in into the Aragon Network, which will provide services like upgradeability and a decentralized court arbitration system for Aragon organizations.

For more information, please refer to [our website](#) our dapp white paper and our Network whitepaper.

This document describes how Aragon Dev plans to develop the Aragon dapp, the Aragon Network and how Aragon Dev is positioned in the larger context of the Aragon project.



## History & Vision



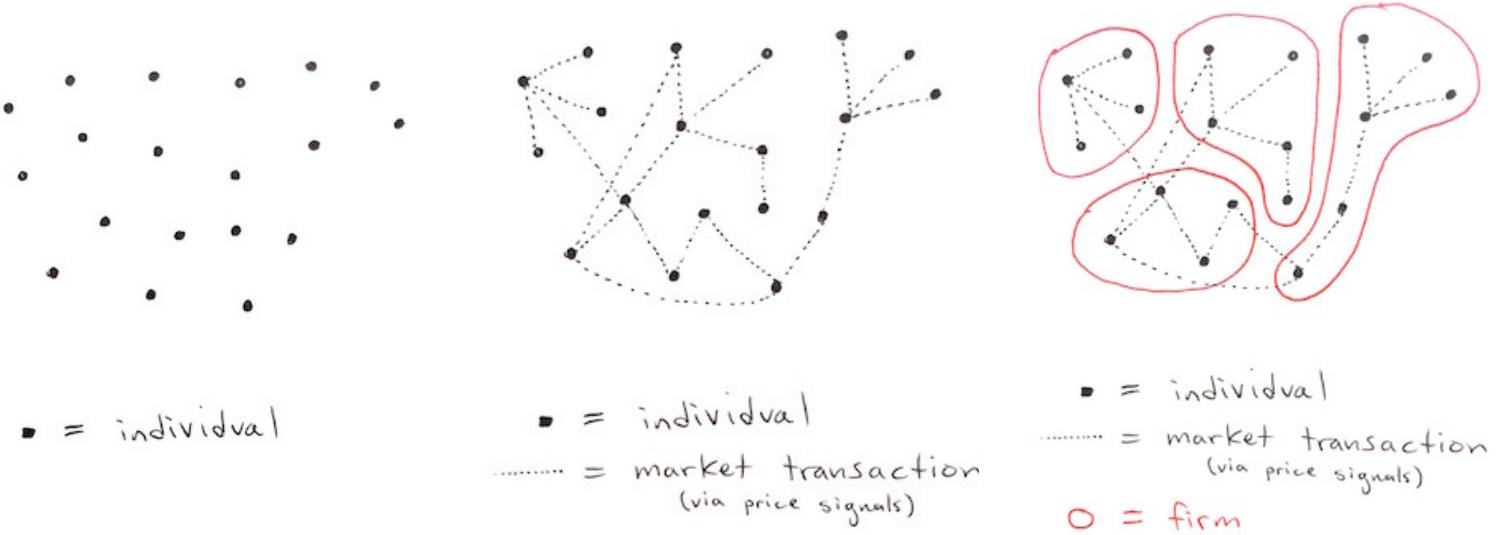
Luis and Jorge have been dreaming of a decentralized world for years. They met via Twitter when they were only 15 years old, and immediately started building products together.

At the age of 17, they prototyped a fully decentralized Internet replacement by using mesh networks, blockchain technology and protocols like Bluetooth LE and WiFi Direct.

Stampery—Luis' latest company—made blockchain timestamping accessible, and has worked with institutions like the Estonian government, Microsoft and Telefonica. It participated in TechCrunch Disrupt and was backed by billionaire Tim Draper.

Luis has also been recognized as a 30 Under 30 by Forbes and Innovator Under 35 by the MIT.

Before building Aragon, Luis and Jorge were in Silicon Valley working on solving the problem of patent trolls with Unpatent. After figuring out how broken the underlying infrastructure of innovation is—patent trolls thriving, Donald Trump winning the elections, bureaucracy eating entrepreneurship—they decided to focus all of their time in building the infrastructure that new companies and organizations will run on top of.



When talking about Aragon, taking a step back and thinking about the why of organizational structures like companies is a sane move.

Firms or companies exist in order to create value by using resources to create products or provide services.

However, intermediaries and third parties such as governments decrease the output of those organizations by imposing restrictions and creating complex regulatory frameworks. Aragon was born to disintermediate the creation and maintenance of companies and other organizational structures.

Luis and Jorge were very inspired by Nobel prize Ronald Coase and his amazing paper [The Nature of the Firm](#) and Yochai Benkler's [Linux and the Nature of the Firm](#). Both explore the concept of company.

At Aragon Dev, we believe that the blockchain and the Internet are changing the incentives for companies to exist, and we are building tools for the next generation of companies that will take advantage of these changes.

However, for decentralized organizations to be widespread, we need to make sure that they are easy to use, upgradeable/durable and able to resolve human disputes.

We want to solve—either us or partnering with others—those points in order to make decentralized organizations widespread.

And, thanks to the Aragon dapp and the Aragon Network, we can solve those points.

# Organizational Structure



**Aragon Community**, defining the community members contributing to the dapp and Network and the Aragon Network Token holders.

**Aragon MTU**, from now on, ***the Foundation***, a non-profit organization based in Estonia, will serve as the umbrella organization responsible for allocating resources to other bodies for future cryptocurrency research and development going forward. The board of the Foundation consists of Luis Cuende and Jorge Izquierdo. The Foundation will focus on overarching the mission and will enable operating organizations to accomplish the day-to-day work.

The Foundation will also serve as a governance entity that will listen the Community until the Aragon Network is fully operational, from where the full governance of the Network will be transferred to the ANT holders.

**Aragon Dev**, a for-profit corporation that will be founded after the token sale is finished, and will serve the Foundation and employ a team that will work on the Aragon platform. It will also serve as a service provider for the Aragon Network.

**Funding Priorities** It is intended that the Foundation will deploy the revenue from the token sale as depicted in the Intended Use of Revenue document, but it reserves the right to make changes if it deems them necessary.

# Development Milestones

We will divide development milestones in the form of releases.

Each release may have multiple deployment stages, from being in alpha stage—running on the test network—to begin in the production stage—running on the main network—going through multiple testing, security and QA stages.

## 0.1 — The Initial Release

The screenshot shows the Aragon platform interface. On the left, there's a sidebar with navigation links: Home, Ownership, Voting, Roles, Fundraising, Accounting, and Bylaws. The main area displays a table of shareholders:

Shareholder	Type	#
Me	CNS	7000
Me	CVS	499
Restless Fog	CVS	100
Bold Grass	CVS	100
Luis Iván Cuende	CVS	200
Unassigned	CNS	10000
Unassigned	CVS	101

On the right, there's a detailed view for the shareholder "Me (li)" with the address 0x22ca641312a0d85fb1666977f5572ff0516d0a4c. It shows their stakes and a vesting chart titled "Transferrable shares (vesting)".

**Shareholder details**

**Stakes**

- CNS: 7000 (Transferrable: 0)
- CVS: 499 (Transferrable: 499)

**Transferrable shares (vesting)**

The vesting chart shows a curve starting at zero. It rises sharply between 10 months and 2 years, reaching about 2000 shares. From 2 years onwards, the rate of increase slows down, leveling off around 7000 shares by 10 years. The x-axis is labeled with time intervals: "a few seconds ago", "10 months", "2 years", "3 years", "3 years", "4 years", "4 years", "5 years", "5 years", "6 years", "6 years", "7 years", "7 years", "8 years", "8 years", "9 years", "9 years", "10 years". The y-axis is labeled from 0 to 7000 in increments of 1000.

This was the first release on macOS after months of work and weeks of privately-conducted community testing. Featured all the basic functionality that an organization needs to operate. It was not made public.

## Release Calendar

- **Private Alpha:** February 2017



## 0.2 – The Public Release

The screenshot shows the Aragon web interface. On the left is a sidebar with icons for Home, Ownership, Voting, Roles, Fundraising, Accounting, Bylaws, and Settings. The main area has a search bar and buttons for 'Issue shares' and 'Assign shares'. It displays ownership distribution data:

Shareholder	Type	#
Company reserves	CVS	0
Me	CVS	1

It also shows two donut charts: 'Ownership distribution' and 'Voting distribution'. The 'Ownership distribution' chart shows 100% held by 'Me'. The 'Voting distribution' chart shows 100% voting power held by 'Me'. A legend indicates 'Company reserves' (dark red) and 'Me' (bright red). Below these charts is a 'Global shareholder stake' section with a single bar for 'Me'.

This was the first public release. Working in both macOS, Linux and Windows. Introduced a new UI styling and Kovan testnet support.

For more information, read [the launch post](#).

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### Release Calendar

- **Private Alpha:** February 2017
- **Public Alpha:** March 2017

## 0.3 – The Governance Release

The screenshot shows the Aragon web interface at <https://alpha.aragon.one/#/ownership/stock/new>. The left sidebar includes links for Home, Ownership (selected), Voting, Roles, Fundraising, Accounting, Bylaws, and Settings. The main content area displays a table of existing stock classes:

Shareholder	Stock class	Shares
Company reserves	CVS	0
Me	CVS	9900000
Purple Frog	CVS	100
Young Wave	CVS	100000

The right side shows the 'Add stock class' form. It includes fields for Stock templates (Voting, Non-voting, Founders, Unicorn), Stock name (Unicorn Stock), Stock symbol (ARN-), Voting power (10), Economic rights (10), and a toggle for 'Use existing ERC20 token'. A section for 'Token address' shows a preview of a test token: Token: Test Token (TT) with address 0x8f99a17d6396f42fb8ad2d8e2ef2052989df5d35. Below this, a note states: 'A voting will be needed to Add new stock. Requires 50% support in a 7 day voting.' A blue button at the bottom right says 'Create 'Add new stock' voting'.

This version added the *Bring your own token* functionality, that allows using Aragon with any ERC20 token as a governance token—ERC20 is a token standard allows everyone to interface with a variety of tokens in a common way. It also added two new bylaws, specific address only and ask oracle contract for confirmation—stepping stone for more dynamic bylaws.

It introduced delegate voting and creation of custom, complex stock classes.

It featured new iconography, notable startup time improvements and web browser support for using it with Ethereum browsers/clients like Mist, Parity, MetaMask, Status etc.

### Release Calendar

- **Alpha:** April 2017



## 0.4 — The Bridge Release

This release will focus on adding:

### **Economic abstraction**

Companies will be able to hold and interact with any standard value-holding token

### **Improved budgeting and accounting**

Organizations will be in itself the organization's *bank account*.

### **Dividends**

Dividend sharing with shareholders, if desired.

### **Fundraising tokens**

Company will be able to raise funds in the form of tokens, not necessarily ether. More flexible founding routes.

### **Funds vault**

Final funds vault API, the only part of the company that is not expected to change. This will make upgradeability easier, being able to redeploy significant parts of the organization while maintaining its access to the funds.

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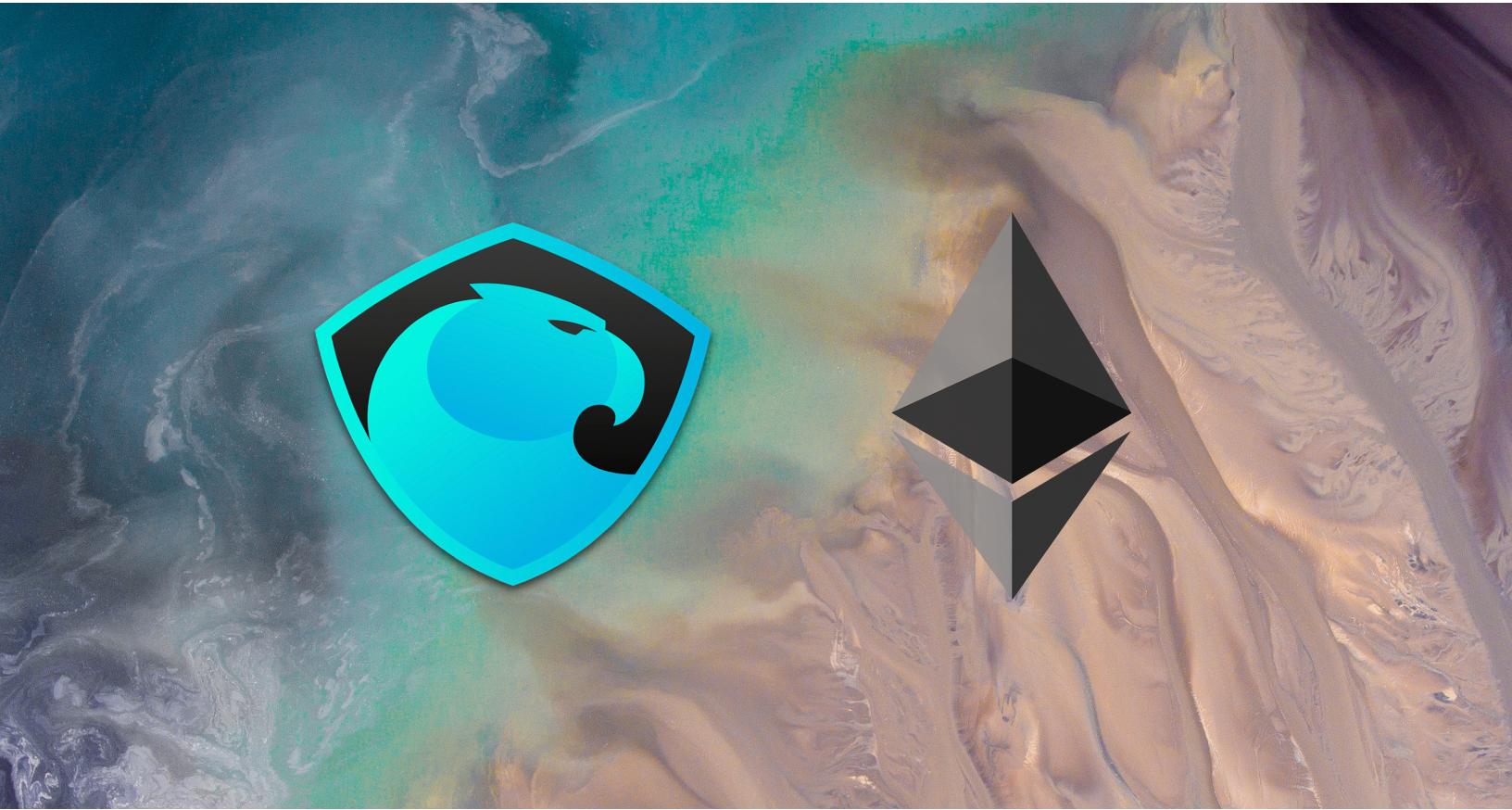
## Release Calendar

- **Alpha:** July 2017

This will be a development version only focusing on smart contracts, iterating between different models for upgradeability, extensibility and security.



## 0.5 – The Refactor Release



This release will consist of a total refactor, and will focus on adding:

### **Organization-wide identity**

Entities in organizations will be able to register their own usernames in the organization, and also provide offchain metadata for displaying purposes in the UI.

### **Full upgradeability**

Organizations that will be able to run as long as the Ethereum blockchain runs. No matter if big chunks of functionality are swapped.

### **Totally new permission system**

Extensible permission system to allow any entity to interact with another one using an ACL (Access Control List) that the kernel controls and maintains.

## Switch to an exokernel architecture

By making the kernel a very simple contract that just keeps the ACL and keep references to the installed apps, we can make it more secure and reduce the lines of code and complexity in apps, since there can be multiple instances of an app, also making upgradeability easier.

## Front-end modules API

This will let developers build modules for Aragon that extend its functionality. We will provide an API for developers to access functionality from the Aragon client, and a UI toolkit for them to adhere to our styling and UX patterns.

## Core modules API

The API will let the developer trigger actions inside the organization itself, and access more low-level capabilities.



D I G I X   G L O B A L

Blockchain projects that have already manifested interest

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## Release Calendar

- **Alpha:** October 2017
- **Bug bounty (mainnet):** From October 2017 to January 2018
- **Private Beta (mainnet):** January 2018

This will be the first release that gets deployed to the mainnet.

After 3 months of public bug bounties in the mainnet, we will start allowing the first companies to be created using Aragon in the mainnet.

## 0.6 – The Sweet Release



This release will focus on adding:

### **Organization-wide datastores**

Using a connector for IPFS/Swarm and the Aragon Versioning Protocol, we will provide a second layer that will give storage capabilities to the dapp. This way, new features and UX sugar will be able to be added to the organizations. Example: setting a company's logo, or implementing an organization-wide identity system, instead of public ones.

### **Module developer incentives plan**

We will provide a module store and incorporate an incentives system for developers to be rewarded.

### **Different upgrade tracks**

We will provide different upgrade options. This is what we are targeting:

- Automatic upgrades: The network will automatically upgrade the organization.
- Delegated upgrades: A representative appointed by the org will upgrade it.
- Upgrades by voting: A majority of voting power will approve upgrades.

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### Release Calendar

- **Alpha:** January 2018
- **Bug bounty (mainnet):** February 2018
- **Private Beta (mainnet):** March 2018

## 0.7 – The Network Release



This release will focus on adding:

### **Basic network-wide governance**

Which power the network will have over organizations, governance votings to decide on service providers, payouts functionality.

### **ANT token minting**

The network will be responsible for the minting policy of ANT, it will be decided through the governance of the network. Some of its responsibilities will be to decide the issueing rate, the price and how companies pay for the subscription to the network.

### **Initial Aragon Dev proposal**

First proposal by Aragon Dev to Aragon Network for funding and further development milestones.

### **Integrate upgradeability**

Provide upgradeability as a network service for all Aragon Network organizations.

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### Release Calendar

- **Alpha:** March 2018
- **Bug bounty (mainnet):** April 2018
- **Production deploy (mainnet) :** May 2018

## 0.8 – The Court Release



This release will focus on adding:

### **Aragon Jurisdiction**

Provide a decentralized court, Aragon Jurisdiction, as network service or work with a decentralized court project to make it work with the network.

### **Orgs in the AN respond to ANJ**

Organizations in the Aragon Network start being under the Aragon Jurisdiction.

### **Constitution proposal**

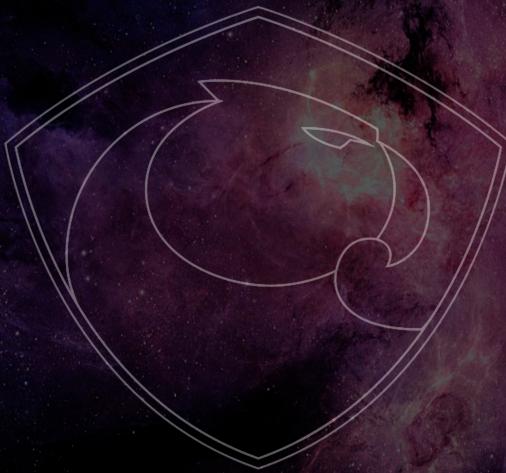
First proposal for the basic laws that all companies will be act under.

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### Release Calendar

- **Alpha:** Q3 2018
- **Bug bounty (mainnet):** Q3-Q4 2018
- **Production deploy (mainnet):** Q4 2018

## 0.9 – The Unknown Release



This is a wildcard release. The ecosystem is evolving very quickly and we don't know what interesting features we may want to add that will make the 1.0 release more appealing.

Some ideas of what we might work on here:

### **Privacy-focused companies**

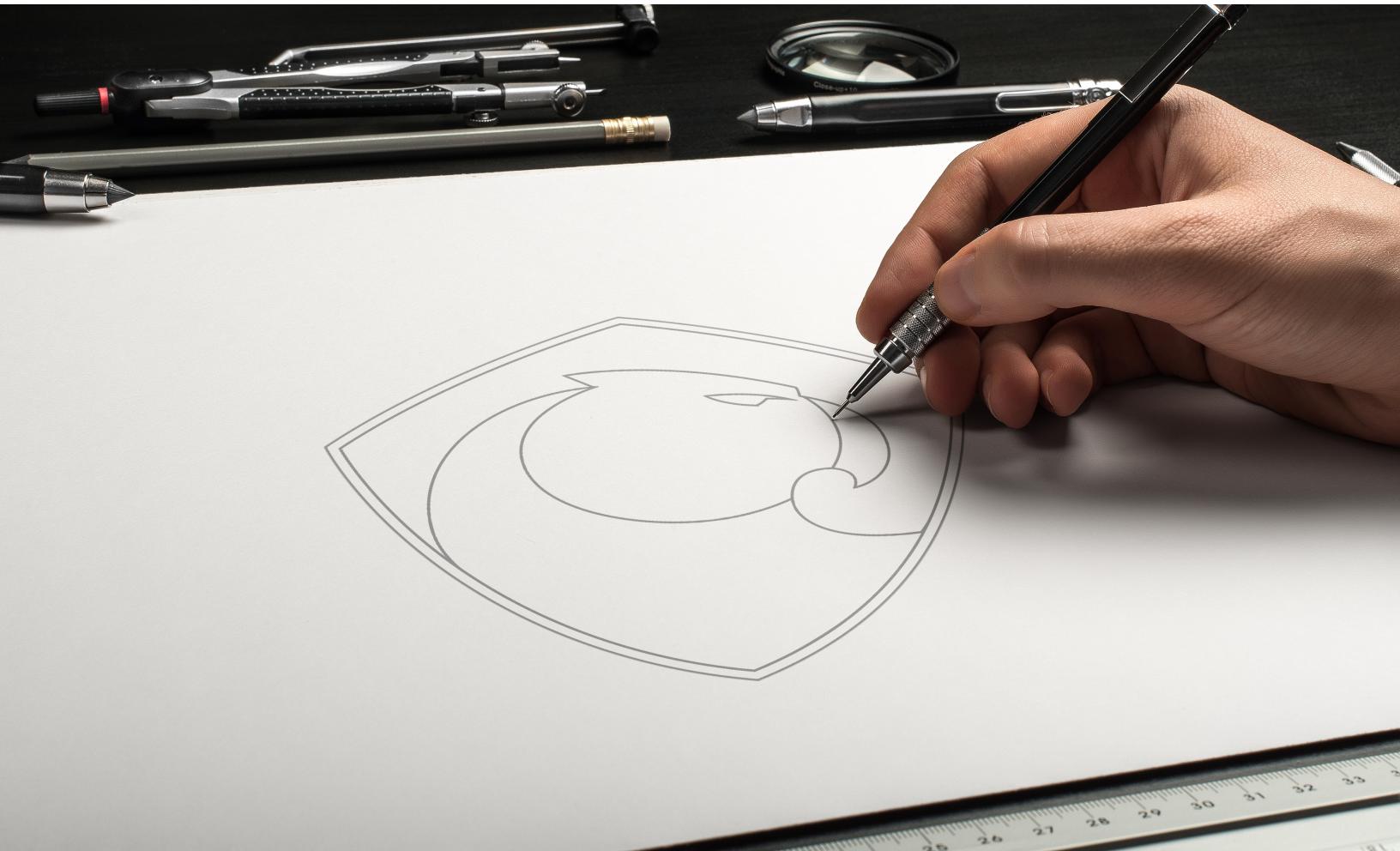
**zkSnarks** could provide companies with way more privacy. Private voting and ownership are very interesting concepts we are researching about.

### **Different governance mechanisms**

Until now Aragon companies and the Network will be simple liquid democracy based entities.

We are closely following research and experimentation on other governance mechanisms such as **Futarchy**.

## 1.0 – The Release



We expect to start marketing Aragon to the mainstream with this release. To achieve that mission, we will have to place an important focus on design and user experience.