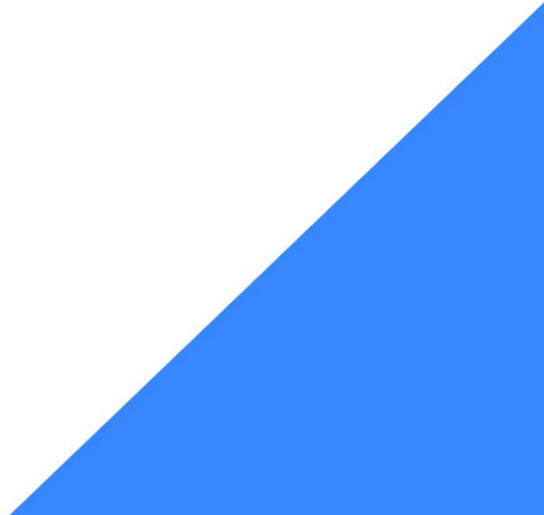




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Nuzai Network

Binance Smart Chain Based Technology - A Fully Decentralized Network



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Abstract

This document and all associated technologies are under development and subject to change.

The main goal of the project is to create a revolution in the world of NFTs - by visually placing tokens in augmented reality. This allows the owners of their tokens not only to store boring pictures or videos, but also to interact with tokens. The further development of the project is the creation of an AR marketplace, as well as providing an opportunity for any artist to create their own AR NFT and earn money from it. We also believe that this is just the beginning, and we have not yet discovered the full potential of AR NFT.

We believe that a decentralized network is a new wave of business models, organizational structures, and charity. Over the years, the potential of decentralized networks for society has been well documented. Nuzai Network was designed with two goals: resolving the technical scalability and abuse of animals. Also, it was designed to bring new opportunities for third-party developers, who want to create new projects.

The Nuzai team wants to create not only technology, but a humanity friendly project, to invest funds, which will stop pharma and cosmetics testing on animals. In this document, Nuzai will explain their technological vision of the future, highlight the problem of testing on animals, and their ethical view on it.

Problem

“How can we justify the tragedy of each individual life caged in an artificial environment which deprives them of experiencing life as nature intended?”

©NAVS

The problem is that every year millions of animals have been sacrificed by modern society. Today humanity has technological progress, which can solve it and save lives. However, modern science has insufficient funding in that area. It can exist by many different ways, but more suitable are:

- Problem is not popular

- Corporations do not want to spend money for innovations
- Humanity has more suitable areas to invest

Unpopular problem

The problem of pharma and cosmetics testing on animals can't be called a popular one for now. In the similar area (animals' rights protection) modern society mostly thinks about zoos and farms. Of course, we can't call it "not an important problem".

If we will talk about zoos, the main problem is animal abuse. However, it does not happen in all zoos, but more and more people try to fight with the whole industry, because the abuse – is not always about violence. It is more about lifestyle. For example, we can call the making profit from a locked animal as abuse. So, it makes sense when society is fighting with the whole industry.

Unfortunately, lots of people do not think about the ways to protect animals. We can see a lot of requirements when activists are asking just to make animals free. They do not understand exactly, how the wild world works – firstly animals have to adapt after zoos, where someone always feed them, where they do not have natural predators – in different way it is not a saving, it is a murder.

The second "fighting area" is a farm and it is far from a "black and white" situation. The main thing here is food. Now the society does not have the right one solution, because humanity still has to eat meat and total phase-out could be dangerous for humans (Parkinson, 2019). However, humanity is investing in it and now it could be safer than 10 years ago. It is still a question of health – people can change some animals' nutrients to substitutes, for example - nutritional supplements (Corvett Z. 2020).

Both points of view have the right to exist, but we still have one unambiguous answer – it is in research now.

As we see, both ways have huge research and now are popular. But the problem of testing on animals is not so popular and now it is just a start of a long way – big funds (as WWF) are already started to finance research, but small funds are just emerging.

Corporations' barriers

Now we have a lot of pharma and cosmetic corporations, which are still testing its production on animals. Unfortunately, we understand that any research is not cheap, corporations don't want to lose their profits and are financing research insufficiently.

However, today we can find a lot of small- and medium-sized producers, who are trying to avoid testing on animals. It is easy to recognize by a sticker with a rabbit on a product – also, the project' logo was chosen by this principle.

The Nuzai team sees the trend and wants to support modern society, not by big talk, but by financing funds.

Promising scientific directions

The promising scientific directions now are the main reason why society hasn't financed enough research of alternative ways of testing.

It is impossible to say that other scientific areas are not or less important. Modern society is more aimed at space, technologies, and health. These areas are promising better and longer lives for everyone.

And it is true – modern medicine has increased the average lifespan of humans, technologies are improving our daily life – smart watches, internet, cars – and space will open new ways for transportation, connection.

However, even if they are important, society must not forget about improving animals' lives. We can say that they don't have a 100% mindset and by lack of communication they can't say "no" or somehow resist the tests.

Because of that, humanity has to take care of them and treat them as living creatures, but not as things or tools.

Nuzai Network

Now, our project uses the Binance Smart Chain ecosystem. Token Standards (NZI-token symbol):

NZI - BEP-20, NFT - BEP-721

And we are actively developing our own "elastic" blockchain, based on the consensus of the Asynchronous Binary Byzantine Agreement, which will serve as a strong support for our own ecosystem in the future.

Our mission and vision

Nuzai's mission is to create a stable network, which will deliver any messages in any conditions without errors and in the shortest time, which is called the Nuzai Network.

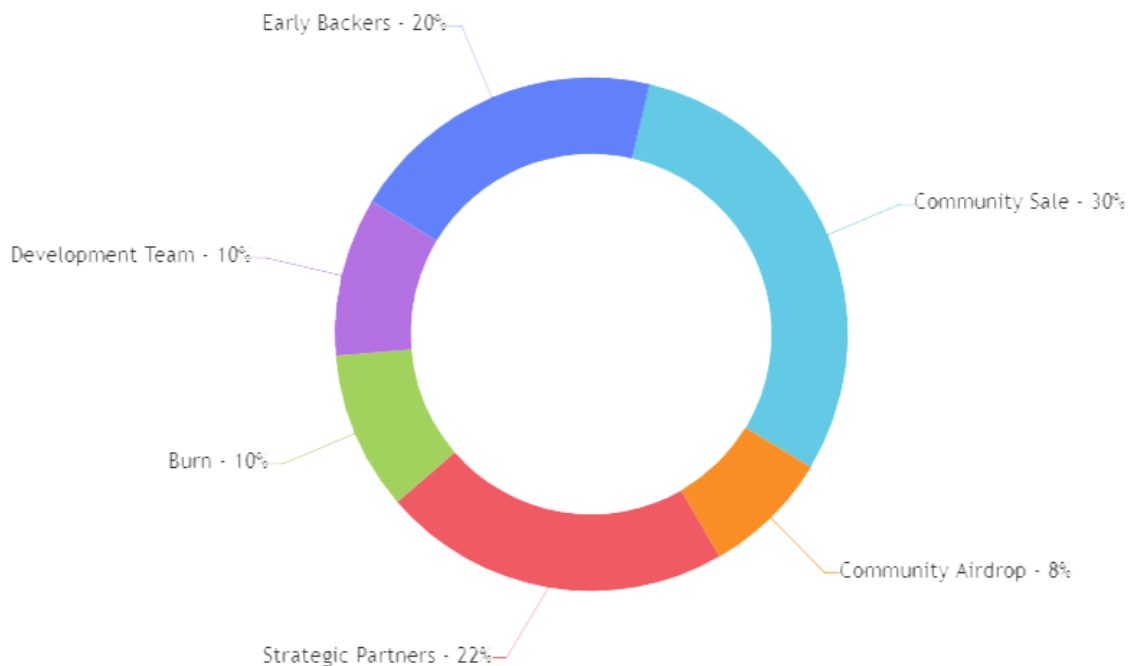
The Nuzai Team has several goals and strong deadlines. The future of the project is a strong connection of technologies and charity. Now we are ready to publicly announce the following goals:

- 1) Launch two new NFT collections. The first one is a simple BEP-721 tokens collection to attract attention to the project and the problem of testing on animals.
The second NFT collection will be developed with AR technology – every NFT-owner will have a possibility to see a 3D-version of the owned animal and locate it on any flat surface.
- 2) Create a connection between both collections to give a possibility of using AR technology. It means the creation of new 3D models with animation. Every 3D model will be unique and connected to NFT-addresses. For example, the owner of 1st token #SaveAnimals will have an opportunity to download a unique model and see it in AR.
- 3) Donate more than \$1.000.000 before the end of 2022 to the funds.
- 4) Creating of own blockchain network till the end of 2022. It is the most important point in Nuzai Network development.

BEP-20 Tokens

BEP-20 is a token standard on Binance Smart Chain that extends ERC-20, the most common Ethereum token standard. You can think of it as a blueprint for tokens that defines how they can be spent, who can spend them, and other rules for their usage. Due to its similarity to Binance Chain's BEP-2 and Ethereum's ERC-20, it's compatible with both.

100,00,000 BEP-20 tokens have been minted. The distribution is shown on the diagram:



Nuzai Tokens will be distributed by following categories and percentages:

- Development team – 10%
- Early Backers – 20%
- Community Sale – 30%
- Community Airdrop – 8%
- Strategic Partners – 22%
- Burn – 10%

BEP-721 Tokens

BEP-721 is a Binance Smart Chain (BSC) token standard that allows for the creation of non-fungible tokens (NFTs). It's an extension of Ethereum's ERC-721, one of the most commonly used NFT standards and is compatible with the Ethereum Virtual Machine (EVM). Each NFT is unique and is not interchanged with any other token.

As a part of the fundraising Nuzai Team is planning to release 100 NFT BEP-721. First collection will take a name "#SaveAnimals" and will closely connect with Nuzai Network mission and vision. All tokens will be unique and protected by copyright.

Funds and donations

Nuzai Network try to build good relations with four funds:

- 1) [NAVS](https://navs.org/) - <https://navs.org/>
The National Anti-Vivisection Society is dedicated to ending the exploitation of animals used in science. NAVS works to increase public awareness about animal experimentation, to promote positive solutions that advance humane science, to support the development of alternatives to the use of animals, and in cooperation with like-minded individuals and groups, to effect changes that help to end the unnecessary suffering of animals.
- 2) [IFAW](https://www.ifaw.org/eu) - <https://www.ifaw.org/eu>
The International Fund for Animal Welfare is a global non-profit helping animals and people thrive together. They rescue, rehabilitate, release animals, and restore and protect their natural habitats. This fund cooperates with governments, non-governmental organizations, local communities, and businesses. IFAW develops new and innovative ways to help all species flourish.
- 3) [WWF](https://www.wwf.eu/) - <https://www.wwf.eu/>
The Worldwide Fund for Nature is an international non-governmental organization that works in the field of wilderness preservation and the reduction of human impact on the environment. They deal with conserving the world's biological diversity, ensuring that the use of

renewable natural resources is sustainable, and promoting the reduction of pollution and wasteful consumption.

4) CellStandard - <https://cellstandard.ru/>

CellStandard is a fund for the development of humane research methods in pharmaceuticals and cosmetics. This fund was established to move from cruel animal testing methods to modern, ethical, and reliable alternatives. CellStandard develops, improves, and promotes safe testing methods on artificially grown human cells and tissues. They are fighting for a total ban on animal testing of cosmetics and household chemicals.

which are aimed at the same target – stop pharma and cosmetics testing on animals. To reach these relations, Nuzai Team has decided to donate 20% of monthly profit to the funds from the previous list. The distribution of these shares is:

- 1) NAVS – 5%
- 2) IFAV – 4%
- 3) WWF – 6%
- 4) CellStandard – 5%

Nuzai Team will carefully look at donation moving and reserve the right to change this distribution scheme in case of unfair spending of donation moneys by funds. Also, every member of the team reserves the right to make or not make any personal donation – these decisions are not connected with Nuzai Network and its products and services.

Further development

Nuzai Network further development of the project is the transition to its own blockchain, built on the consensus of the Asynchronous Binary Byzantine Agreement.

What is the main aim of the consensus of the Asynchronous Binary Byzantine Agreement? It is a creation block under any conditions without any errors, where the protocol assumes asynchrony with virtualized subnodes connected by a reliable communication line.

If any network separation occurs in the network, the virtual nodes of the consensus protocol will necessarily perform successful transactions by making several attempts.

Summary

The Nuzai Team mission is to create a stable network, which will deliver any messages in any conditions without errors and in the shortest time, which is called the Nuzai Network.

Also, the vision of the project is a combination of technology development and protection of animals through communication with funds.

We believe that augmented reality is a new round of development in modern technologies. Nuzai Team has already started developing AR NFT, which will combine the existing, but improved AR technology and NFT with BEP-721 standard.

We hope that our work will have an exponential impact on the trajectory of blockchains.

References

1. Parkinson C. (2019) Vegans and vegetarians are at greater risk of stroke than meat eaters, BBC [online]. Available at: <https://www.bbc.com/russian/news-49592689> (Accessed: 18.07.2021)
2. Gorvett Z. (2020) How a vegan diet affects intelligence and brain, BBC [online]. Available at: <https://www.bbc.com/russian/vert-fut-51309056> (Accessed 18.07.2021).