NUNU SPIRITS

THE GREENEST NFT
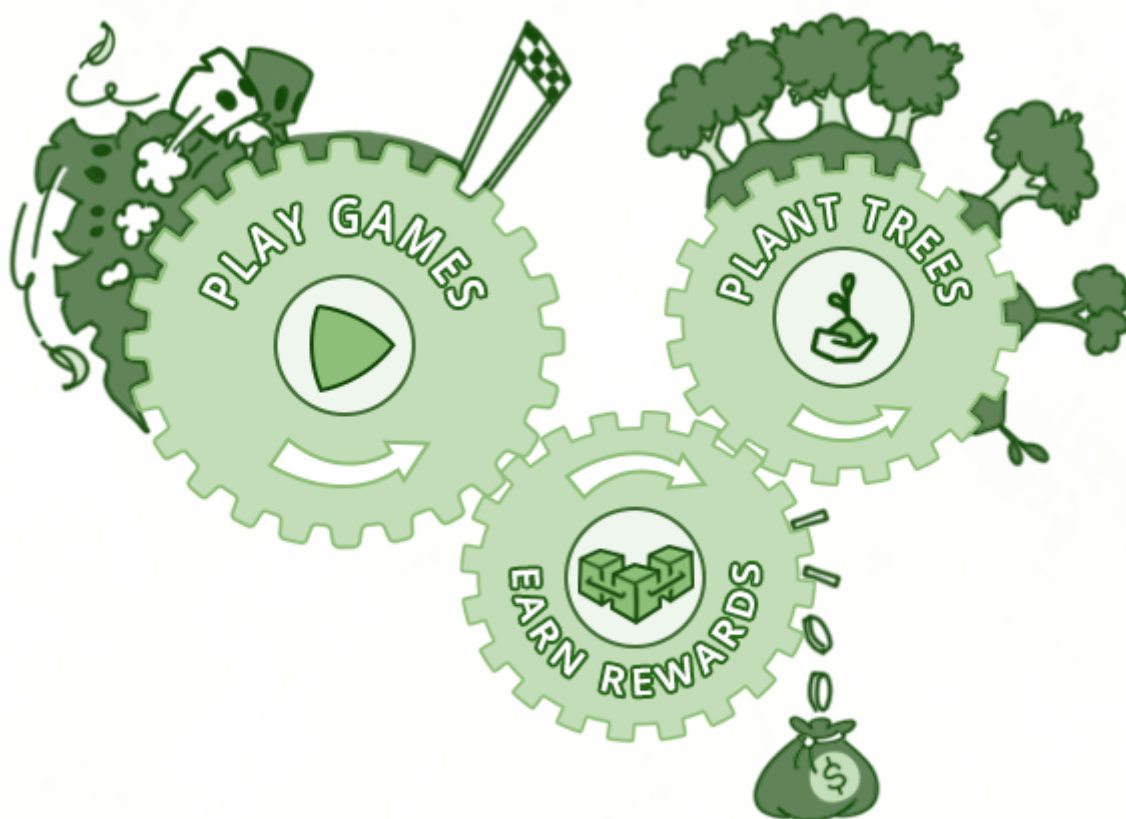
PLANT REAL TREES BY PLAYING A GAME!

The Nunu Spirits project merges the joy of **casual gaming** and the earning capacity of **blockchain** and turns it into **ecological action.**

Save the Nunu, save the forest, but for real! Players collect and earn 3D NFTs called **Nunus** in a super fun game world built on a play-to-earn ecosystem where every Nunu has the chance to become a real tree, planted in the real world.

We hope you enjoy learning about The Nunu Spirits. If you would like to chat with the team or our growing community head over to **our Telegram.**

01 INTRODUCTION

01.1 GAME FEATURES

- Collect, swap, and print 3D NFT characters
- Fun, casual gameplay (wide audience)
- Soft competitive and cooperative play (races, rhythm, building, etc.)
- Evolve and grow your Nunus
- Thousands of unique characters with genetic and learned traits
- Plant real-world trees with in-game actions
- Grow real forests to unlock new game areas and game modes
- Developed in Unity3D for mobile platforms and beyond
- Future compatibility for VR/AR/3D Printed games

01.2 BLOCKCHAIN FEATURES

- Blockchain tokenomics: Governance, vesting, staking
- Non-fungible token (NFT) asset ownership (NUNU token)
- Play to earn 2.0 (NUGO) - in-game rewards
- Carbon-reducing ecosystem (verified planting + carbon-neutral chain)
- Built on Avalanche blockchain protocols
- In-game access to NFT marketplace
- Decentralized digital currency
- Direct peer-to-peer exchange of tokens
- Governance - vote for new features, eco-fund allocations, and more
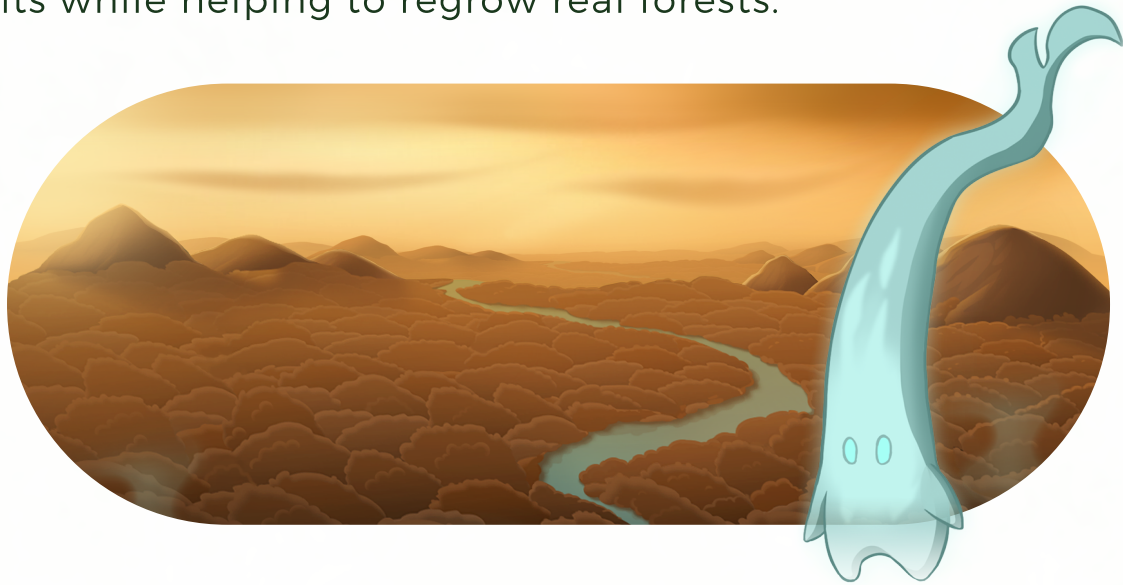
01.3 ECOLOGICAL FEATURES

- Eco-fund from token sales and sustained with transaction fees
- Reforestation mission with decentralized governance
- Geolocation, date/time stamp, and username for tracing
- Represent the reforestation progress in the game world
- In-game rewards for real-world cleanup projects
- Additional ways to gain in-game and real-world rewards

THE PURPOSE OF THIS PAPER

This paper is designed to serve as a comprehensive introduction to the Nunu Spirits ecosystem for anyone who loves the idea of collecting super cute, digitally unique nature spirits while helping to regrow real forests.

02.1 WHO SHOULD READ THIS PAPER

Our project is great for: crypto enthusiasts, gamers, and digital nomads looking for new play to earn opportunities and **anyone that thinks planting more trees is a good idea.**

02.2 INTENDED AUDIENCE

The project appeals to NFT collectors and play-to-earn gamers but should also attract new players/holders; our gameplay and onboarding are very "casual" and open. Crypto gaming is rapidly approaching mass-market adoption and Nunu Spirits will help players make that leap. Our game is also desirable across genders and the eco aspect will help bring new users to this exciting new market.
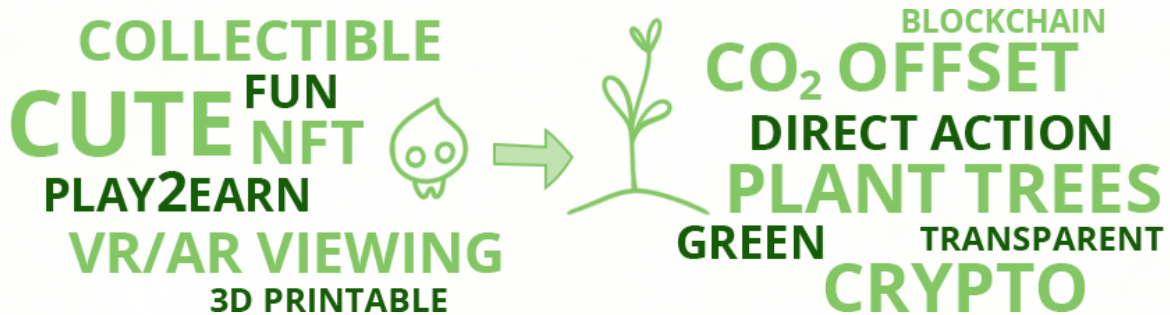
NUNU SPIRITS OVERVIEW

Nunu Spirits is founded on three pillars - a fun game, a collectible NFT, and ecological action. Our players are able to help with reforestation initiatives around the world.

This project is only possible due to recent breakthroughs in blockchain technology and our team's proven ability to navigate this dynamic new market.

03.1 NFTS THAT ARE GOOD FOR THE ENVIRONMENT

Games have always allowed us to collect digital items but now NFTs offer a new and distinct path to ownership with these certifiably unique items being recorded, stored, and traded on the immutable ledgers of the blockchain.

There are growing concerns about the ecological damage of running such systems. While many cryptos are looking for green initiatives, very few are designed to make a direct ecological impact. **NUNU SPIRITS is the solution.**
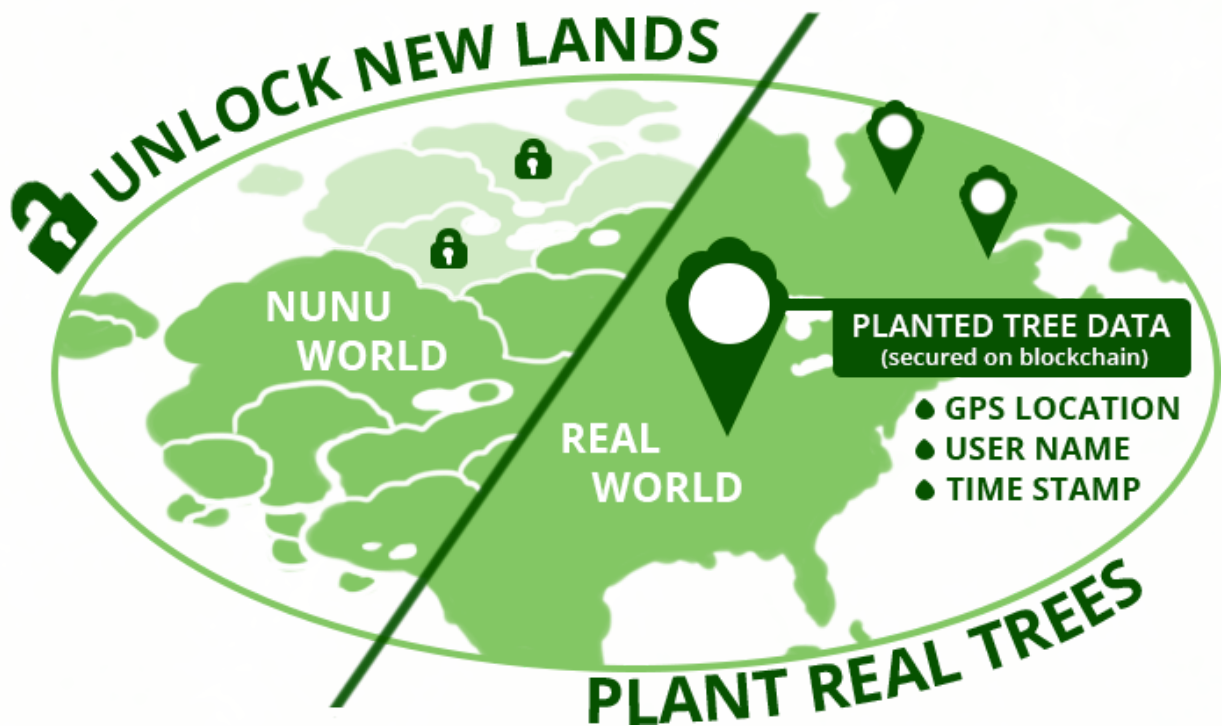
03.2 WHAT MAKES IT GROW

Our super cute and fun game world is synced to the real world by direct and traceable ecological action with tangible rewards.

03.2.a Game mirrors the real world

The game world reflects the real world. Players can easily see just how many trees they have planted and where they are in the real world. The more trees a user has planted in the real world, the greater their in-game benefits.
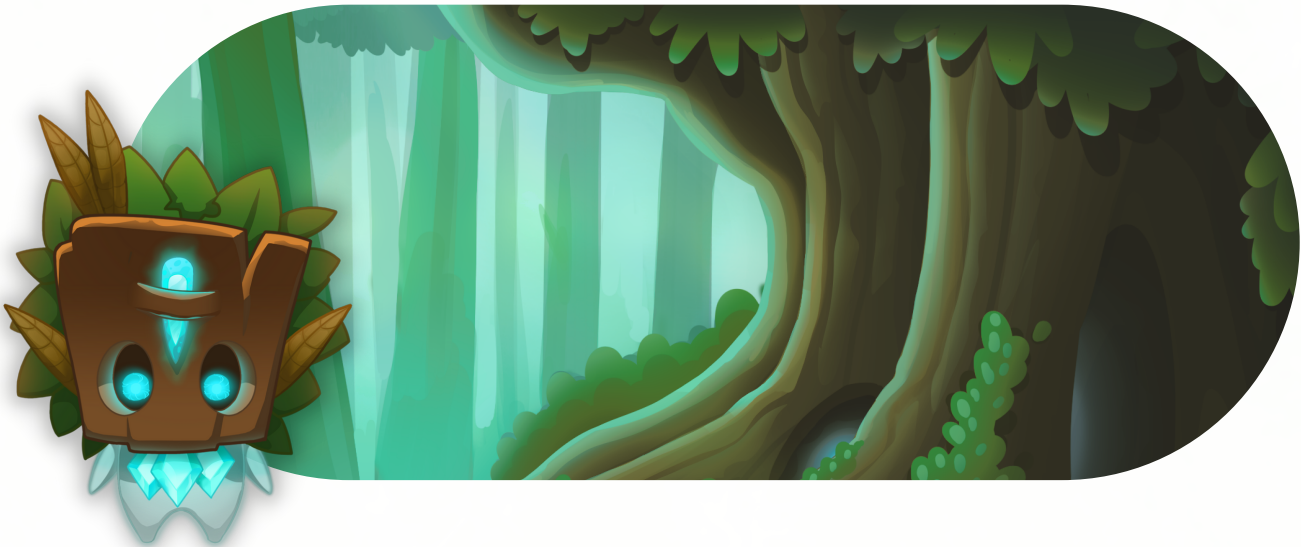
UNLOCK NEW LANDS

NUNU WORLD

REAL WORLD

PLANTED TREE DATA
(secured on blockchain)

- GPS LOCATION
- USER NAME
- TIME STAMP

PLANT REAL TREES

03.2.b Directly traceable to eco-action

Blockchain has become a trusted financial tool for nearly 75 million users. The popularity of NFTs (non-fungible tokens) is pushing crypto use to new heights. Top NFT gaming ecosystems, like Axie Infinity, have shown the combination of fungible and non-fungible tokens, as well as a significant value for users by engaging with these ecosystems.

We take this successful model a step further; we tokenize actions, like tree planting, so our **players can own their ecological efforts in a very tangible way**.
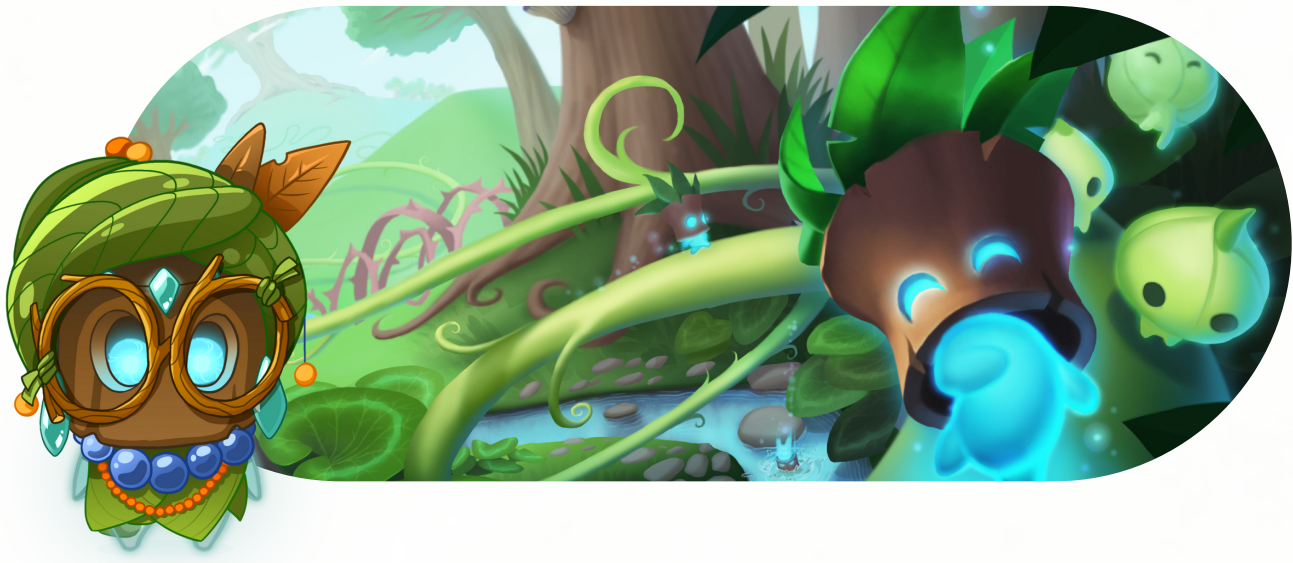
03.2.c Real world rewards

It's important for players to feel they are being rewarded. Tokenizing our economy and ecological action gives them assets that can be traded. We give players **NUGO tokens** for actions in the game. These tokens power game progression but can also be traded on exchanges. The NUNU earned and even the real trees they turn into are assets that can be traded.

03 NUNU SPIRITS

03.2.d Fun, casual game world (expanding)

Collect super cute nature spirits and play with them in a brand new world filled with **party games**, like parkour tag, racing, **floor is lava** and capture the flag!

The game is being built in Unity3D, a very popular and flexible development platform. With custom in-house architecture systems in place, we can easily expand our game with new party games and content.

03.2.e Future compatible

The NFT assets for the game are being **built in 3D** within a fully-featured 3D engine (UNITY 3D). NFT holders will even be able to print their NFTs on home 3D printers and we can easily adapt game scenes to support VR/AR/XR.

03.3 ROADMAP 2021 - 2022

Seed and private rounds were completed in late 2021 with the public sale (IDO) and the majority of development planned for 2022.

DECEMBER 2021
- Project Announcement
- Community Growth
- Team Expansion

JANUARY 2022
- Public Sale (IDO)
- Community AMAs
- Eco Partners

FEBRUARY 2022
- Pre Alpha Gameplay Reveal
- CEX & DEX Listing (TGE)
- Community Quests

2ND QUARTER 2022
- Internal Alpha
- First NFT Drop
- Staking Rewards

3RD QUARTER 2022
- Public Beta
- Earn NUGO
- First Trees Planted

4TH QUARTER 2022
- All Core Features Live
- Expand the "Nuniverse"
- Advanced NNT Voting

04 PLANTING SEEDS

GENERATING THE WORLD

The tallest oak starts with the tiniest of seeds. So too will our ecosystem grow. With a project of this size and scope, it is essential to break it up into manageable steps. Each of these phases must be within the skills and resources of the team but also build a strong foundation for subsequent phases. Our company is familiar with iterative development and even more specifically with building NFT based projects. We understand the needs of early adopters as well as what is needed to sustain a healthy long-lived NFT based ecosystem.

04.1 ASSET SALE PHASES

Here is our plan for generating initial capital and launching the ecosystem.

04.1.a Governance token sale (like ERC20) [NNT]

NNT (like ERC-20) will begin life with a standard Token Generation Event (TGE) - this will create the necessary resources to realize the development of the project and ensure the ecosystem can grow in a free market. We will also allow staking at this time so that holders of the token can begin creating value in their ecosystem. Staking will also increase draw chances for NUNU (NFT) Token drops.

04 PLANTING SEEDS

04.1.b NFT collection release (like ERC721) [NUNU]

Following the TGE, the first generation of NUNU (like ERC-721) will be generated and released. Most will go to NNT stakers but some will go to the general marketplace to be purchased with NNT or other coins. Additional NUNU will be added to the world as the game world grows (becomes rejuvenated). Most of these will drop as rewards for staking but some will be found only by playing.

04.1.c Mobile game alpha

The first released version of the game will allow users to begin interacting with their NUNU. See Gameplay pillars for more on what to expect from the Nunu Spirits game. During this phase players will be able to try out their NUNU in the game, however, it will yet be possible to earn NUGO.
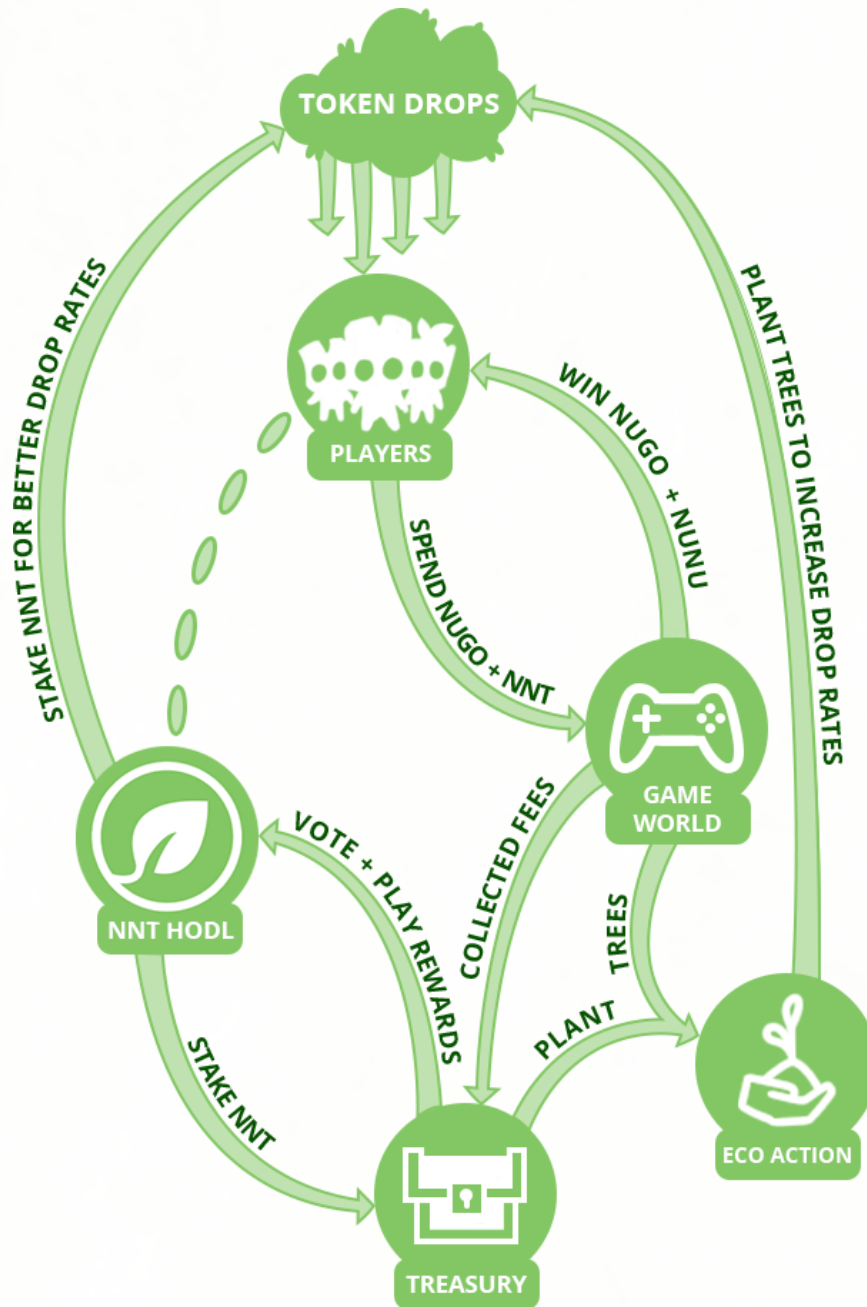
04.1.d Game Token (like ERC20) [NUGO]

As soon as all game logic is running smoothly we will introduce the final token, NUGO (like ERC-20). Which can only be generated by interacting with the game. As these are like ERC-20 tokens, they may be sold and exchanged as well. See Play to Earn below.

04.1.e Planting features

Users will be able to plant trees by upgrading their Spirits to Elders by burning NUGO. Elders are no longer playable, but give benefits such as better drop rates/stats for new NUNU. Special events, new game modes, and content round out the ongoing development efforts and will keep users engaged for years to come.

04.1.f Economy Overview

- NNT HOLDERS stake to participate in TOKEN DROPS and Governance
- PLAYERS grow NUNU with time and NUGO in the GAME WORLD
- Players earn NUGO for playing
- Players spend NUGO to level up and plant trees
- Fees collected from transactions fill the TREASURY which funds future development and ECO ACTION
- NUNU HOLDERS vote on how the TREASURY should be used
- The more ECO ACTION the better chance players will find rarer NUNU

NNT

04.2 NNT USES

Fixed Supply - main vector for storing value in the ecosystem. NNT holders will shape the future of Nunu Spirits by voting for network and system upgrades to the ecosystem and directing the allocation of community resources.

04.2.a Ecosystem Currency

- Treasury - Sold to fund development, reforestation, and system maintenance
- The only way to buy and sell NUNU is via the in-game marketplace
- Buy NUGO from other users via the in-game marketplace
- Exchange NNT for other currencies on exchanges

04.2.b Staking and Governance

- Get NUNU drops and grow the value of your collection
- To participate in voting in the governance of the NUNU ecosystem

NUNU

04.3 NUNU USES

The current interest in the ownership of digital items cannot be disputed. Tokens that are tied to NFT collections have shown unparalleled resilience. AXS, the governance token for Axie Infinity, was able to skyrocket despite the complications in the market.

04.3.a Collection

- Ownership of unique assets provides tangible engagement
- Unique Nunu abilities can alter gameplay in fun ways
- Rarity-based collection with limited supply and even one-of-a-kind items

04.3.b Seedling Generation / Planting

- Nunu Elders allow you to grow new Nunu Seedlings
- Elders give better drop rates for seasonal Seedling drops
- The process of upgrading to Elder is tied to reforestation
- NUNU tokens hold planting event information
  - Date / time, username, geolocation, etc.

04.3.c 3D Printing

- NUNU can be downloaded as printable STL files
- Prints will be coded with proof of ownership (block id)

NUGO

04.4 NUGO USES

NOT fixed supply - Earn by playing - burned when used.

NUGO is a powerful energy that is generated by playing and interacting with the game world but cannot be created any other way. It can be bought and sold on the market and it is burned when used. NUGO makes the world go round and is used as a basic currency in the game. Transactions that use NUGO are subject to a small fee (cca 3-4%) which is converted to NNT behind the scenes and added to the treasury.

04.4.a Upgrade NUNU

- Speed up "hatching" from Seedling → Spirit
- Spirit upgrades (improve stats and learn new abilities)
- Spirit → Elder (plant real trees - add to your game "power")
- Fertilize an Elder (create a new seedling)

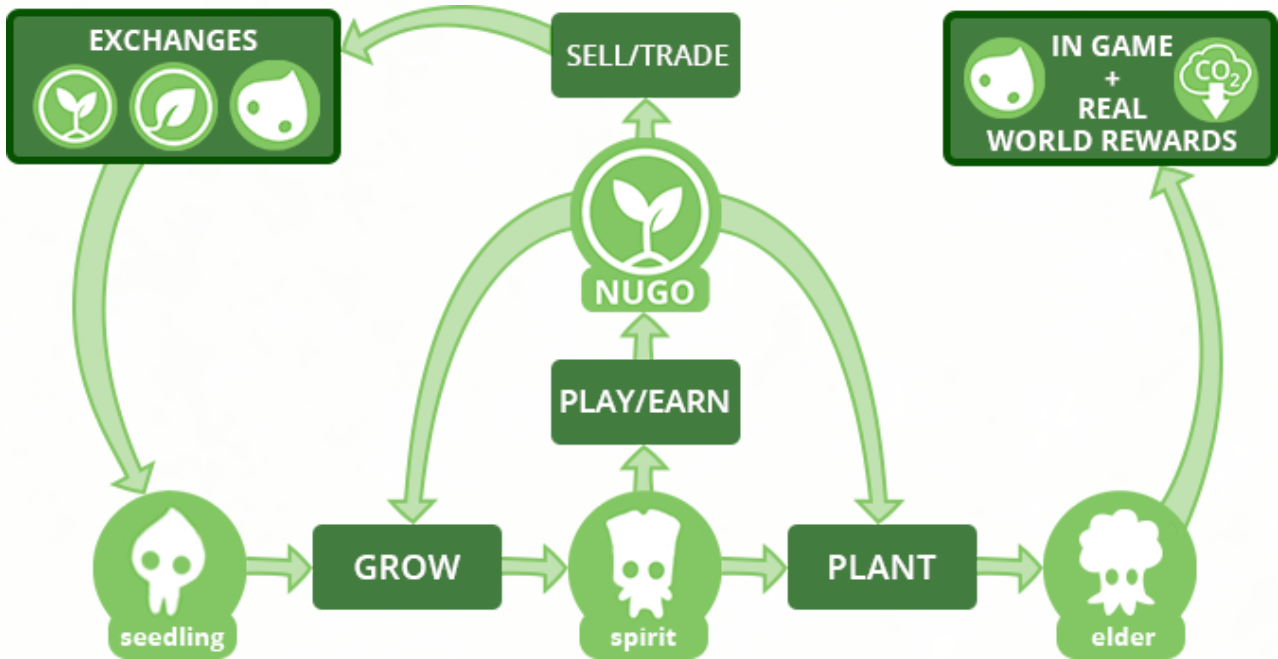### 04.4.b Play to Earn

- Earn NUGO and sell it on the open market

04.4.c Game Currency

- Purchase consumable items for a quick boost at a discounted price
- Fee for entering certain activities with prize pools

EARN

PRINT
3D

OFFSET
CO2

ECO ACTION

05 NUNU ECOLOGY

05.1 HOW TO PARTICIPATE

Stake NNT tokens to participate in seasonal Seedling drops or purchase Nunus from the marketplace. Grow your Seedling into the playable Nunu Spirit. Play the game and interact with the ecosystem to earn NUGO. Burn NUGO to upgrade your Nunus and experience the world.

A Nunu can even learn traits from their experiences that may be passed on to their seedlings. Eventually evolve your Nunu into an Elder, which takes root and can no longer be used in games but they have the ability to create new, possibly stronger Seedlings if you give them enough NUGO and a small bit of NNT (for minting fees). The Elder event is also tied to real-world tree planting and the more trees you have planted (the more Elders in your wallet) the better your future Seedling drop chances will be.
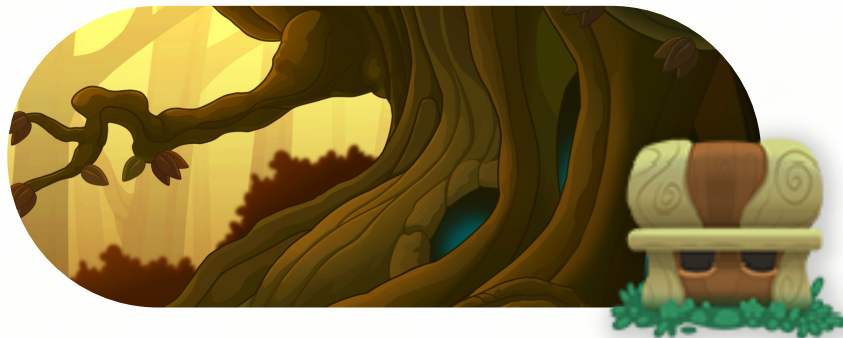
05 NUNU ECOLOGY

05.2 GENERATING ADDITIONAL NUNU TOKENS

We know that every Nunu begins life as a Seedling, but where do seedlings come from? There are two ways new Seedlings are introduced to the system – Elder seed drops and scheduled generation drops.

05.2.a Elder Seed Drop

When a player feeds NUGO to a Nunu Elder the Elder will have a chance to drop a new Seedling (new NFT). The potential stats, traits, and abilities of the new Seedling are inherited algorithmically from the Nunu Elder's traits and experiences.

05.2.b Scheduled Generation Drops

Over time, new traits, models, and abilities will be introduced. This introduction is kicked off by releasing a new generation of Nunu seedlings. The time and number of Nunu generated in this way will be determined by the current state of the ecosystem. Such factors will include time since launch, number of active Nunu in the world, and number of players active in the game. Given an increase in players, subsequent generations will be more numerous making the early generation more rare and as a result more valuable.

A REFLECTION OF OUR WORLD

Nunu Spirits takes place in a cute, brightly colored fantasy world but it's not just a game. This world is a reflection of our world and vice versa. Actions in the game world have a direct effect on the real world (i.e. planting real trees), Similarly, the more trees that are planted in our world the larger the game world becomes.

06.1 SEEDLING HOME (HOME BASE)

Each player has a small safe zone to call their own. Here their Seedlings gather to frolic and play. Players can interact with their Nunus in simple ways. For example, picking up Seedlings and placing them in funny places to see what they do. We also plan to allow friends to visit your island and see your sanctuary, view your collection, your awards/achievements, and even leave gifts.

06.2 NUNU WORLD (IT'S ALL FUN AND GAMES)

When Seedings are nurtured (by spending time and sometimes NUGO) they become Nunu Spirits and they can then leave the safety of their home to join the rest of the players' Nunus in the wilds of the Nunu world. Here players can frolic and play in sandbox type levels and compete in friendly competitions, like parkour races or rhythm challenges.

06.2.a Asynchronous beginnings

Initially, interactions are designed to be asynchronous; players might race against the ghost of a previous player's run or pick up where the previous player left off. This means players won't have to wait for matchmaking and will be more free to drop in and out of events. Asynchronous play also significantly reduces live-operation costs (servers). Eventually, and should the holders of NNT vote to allocate resources to real-time servers, the game could also offer synchronous multiplayer events.

06 GAME WORLD

06.3 GROW THE WORLD TOGETHER

With the ecosystem up and running, it is important to continue building and growing the features available in the game. Our players work together to help make that happen.

06.3.a Expand Features / Events / Game Modes

Our project is great for: crypto enthusiasts, gamers, and digital nomads looking for new play to earn opportunities and anyone that thinks planting more trees is a good idea.

06.3.b Treasury

We will use a treasury system built from initial funding and sustained through the collection of transaction fees.

06.3.c Governance Directs Growth

Holders of NNT will be able to stake their tokens to gain game rewards and signal their support for new features, system upgrades and the like.

06.3.d In-Game Real Estate

One of the most ambitious planned expansions is the notion of being able to buy in-game real estate. This gives players a section of the Nunu world that you can fill with your own content. This can be a public space in the game world where others can visit and interact. It also gives you certain in-game benefits like resource generation and drop rate boosts. This adds additional play to earn element to the game, which will strengthen the ecosystem substantially.

07 GAME PILLARS

FUN - CUTE - CASUAL - ECO

We will create a very simple foundation based on years of industry experience - casual game mechanics and cute graphics with a theme of growth and renewal.

07.1 FUN CASUAL GAMES (SOFT COMPETITION)

Our mini-games are designed to be fun and simple to pick up. The complexity only comes in later stages (e.g., managing land, leasing Nunus, optimizing grow-ops, etc.).

There will be a variety of games/activities that Nunus can participate in so finding the right stats and skills for a game is part of the fun. Expect all the usual party games - runners, easter egg / hidden object hunts, sling-shooters, obstacle courses, rhythm puzzles, etc. There is not currently any synchronous multiplayer planned, so competition is light and easy for everyone to enjoy.

07.2 GROWTH AND RENEWAL THEME

A huge part of the game is connecting to the reforestation of our planet. The environments and actions in the game are often related to events in our natural world. Planting, scattering, and watering seeds to make them grow. Cleaning up pollution.

Even the evolution of a Nunu reflects the life cycle of trees.

Seed → Spirit → Tree → Seed

07.3 COLLECTING AND TRAINING NUNUS

At its heart, Nunu Spirits is all about collecting Nunus. Training them is the fundamental action that affects all other aspects of the game. Training takes both time and NUGO and results in upgraded stats and possibly unlocks more powerful abilities. This may increase their utility and subsequently their value on the market.

07.4 CORE GAME LOOP

Primary actions:

- Play fun games
- Grow Nunus
- Plant trees to grow your forest

Secondary actions:

- Build and decorate your home
- Visit other players' islands and leave gifts
- Make new Seedlings
- Expand the Nunu World

Rewards:

- Game Currency (NUGO)
- NUNU (NFT)
- Accumulated points for comparing High Scores
- New learned traits for your Nunus

08 TOKENOMICS

The tokenomics follows closely to other industry standards but automatically reserves a portion of revenues and adds it to the treasury to fund reforestation activities.

NUNU
COLLECTION
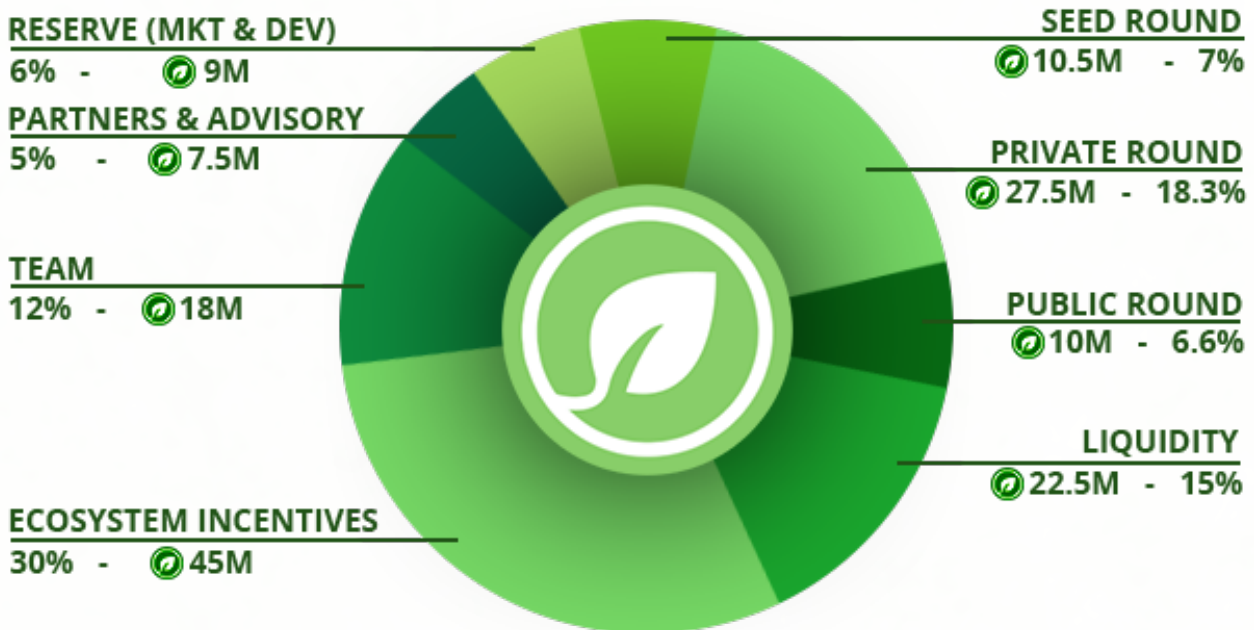3D NFT
PRINTABLE

NNT
PARTICIPATE
GOVERNANCE
FIXED SUPPLY

NUGO
IN GAME
CURRENCY
BURNABLE

THE BASICS

RESERVE (MKT & DEV)
6% - ⊘ 9M

PARTNERS & ADVISORY
5% - ⊘ 7.5M

TEAM
12% - ⊘ 18M

ECOSYSTEM INCENTIVES
30% - ⊘ 45M

SEED ROUND
⊘ 10.5M - 7%

PRIVATE ROUND
⊘ 27.5M - 18.3%

PUBLIC ROUND
⊘ 10M - 6.6%

LIQUIDITY
⊘ 22.5M - 15%

RAISING	TOTAL SUPPLY	LISTING PRICE	INITIAL MARKET CAP	FDV
$2,8M	⊘ 150M	Seed/Priv $0.06 Public $0.06	w/o liquidity $576,000 w/ liquidity $981,000	$9M

Seed Round
- Total allocation 7%
- Supply of 10,500,000 NNT
- 20% of tokens released after sale
- 3 month cliff then 4.44% every month
- Seat in generation 0 NFT drop

Private Round
- Total allocation 18.3%
- Supply of 27,500,000 NNT
- 20% of tokens released after sale
- 3 month cliff then 4.44% every month

Public Round
- Total allocation 6.6%
- Supply of 10,00,000 NNT
- 20% of tokens released after sale
- 3 month cliff then 4.44% every month

Liquidity
- Total allocation 15%
- Supply of 22,500,000 NNT
- 30% of tokens released after sale
- 5% released monthly following sale (14 transfers)

Team
- Total allocation 12%
- Supply of 18,000,000 NNT
- 25% of tokens released every 6 months (4 transfers)

Ecosystem Incentives
- Total allocation 30%
- Supply of 45,000,000 NNT
- 5% of tokens released monthly after sale (20 transfers)

Partners & Advisory
- Total allocation 5%
- Supply of 7,500,000 NNT
- 25% of tokens released every 6 months (4 transfers)

Reserve
- Total allocation 6%
- Supply of 9,000,000 NNT
- 5% of tokens released monthly after sale (20 transfers)

NFT GAME EXPERIENCE

Together with our partners, we have launched DinoX, one of the most successful NFT games of Q3 2021. Nunu Spirits is built off that experience and fits a unique and growing segment.

09.1 WOMEN IN GAMES (AND CRYPTO)

The play to earn sector is flooded with competitive "hardcore" games. While the mobile market sees "casual" games dominating the revenue charts. With women being one of the fastest growing segments in crypto, it's time for a play to earn game that this segment can really get behind. While Nunu Spirits doesn't specifically target a female audience, it certainly is more welcoming than what's currently available.

09.2 WHERE ALL THE PARTY GAMES AT?

As popular as this genre might be, it sees almost no representation in the NFT game sector, with Blankos, from Mythical Games, being a stand-alone exception. This title is seeing significant traction with the company partnering with Burberry. We aim to mix that hype with eco-goodness.

09.3 COMPARING ECOSYSTEMS

We have compiled features for Nunu Spirits as well as some of its closest competitors, DinoX (one of our previous projects) and Axie Infinity (perhaps the most popular NFT based game currently) and Blankos to represent the party game genre. As you can see from the chart, we take the core systems from DinoX, which grants us a comprehensive understanding of the tools and systems necessary to deliver an NFT-based game, and we pull the most successful elements from Axie and combine them into one extremely robust NFT ecosystem.

09.3 COMPARING ECOSYSTEMS (CONT.)

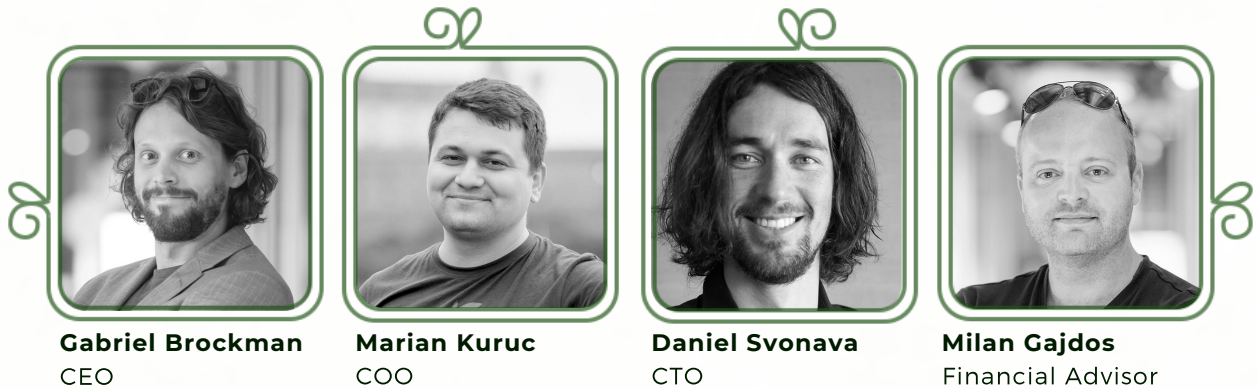|	Nunu Spirits	DinoX	Blankos	Axie Infinity
Ownership token	NNT [ERC-20]	DNC [ERC-20]	✖	AXS [ERC-20]
In-game token	NUGO [Layer 2]	DNXI [ERC-1155]	✖	SLP [ERC-20]
NFT Token	NUNU [ERC-721]	DNX [ERC-721]	✔	AXIE [ERC-721]
In-game Marketplace	✔	✔	✔	✔
Breeding model	Single Parent + Exp + NUGO + Fee	Pair + DNX + Fee	✖	Pair + SLP + Fee
Number of breedings	Once - Rare chance at multiple seeds	Once	N/A	7 (exponential cost)
Generations drops	YES - drops + offspring: 1 makes 1	YES - drops + offspring: 2 make 1	N/A	NO - Origin.(Mystic) + offspring 2 make 7
NFT drops	✔	✔	New releases	✖
3D NFT	✔	✖	✔	✖
Direct Eco action	✔	✖	✖	✖

Nunu Spirits is the only game ecosystem that offers standards like play to earn, governance, marketplace, but adds 3D NFTs (printable even) and user direct eco-action! Furthermore, the gameplay and content is relatable across gender demographics.

VETERAN TEAM

The team is highly experienced with game development, smart contracts, blockchain and NFTs. In mid 2021 it was contracted to work on a highly successful NFT game. Have excellent industry connections.
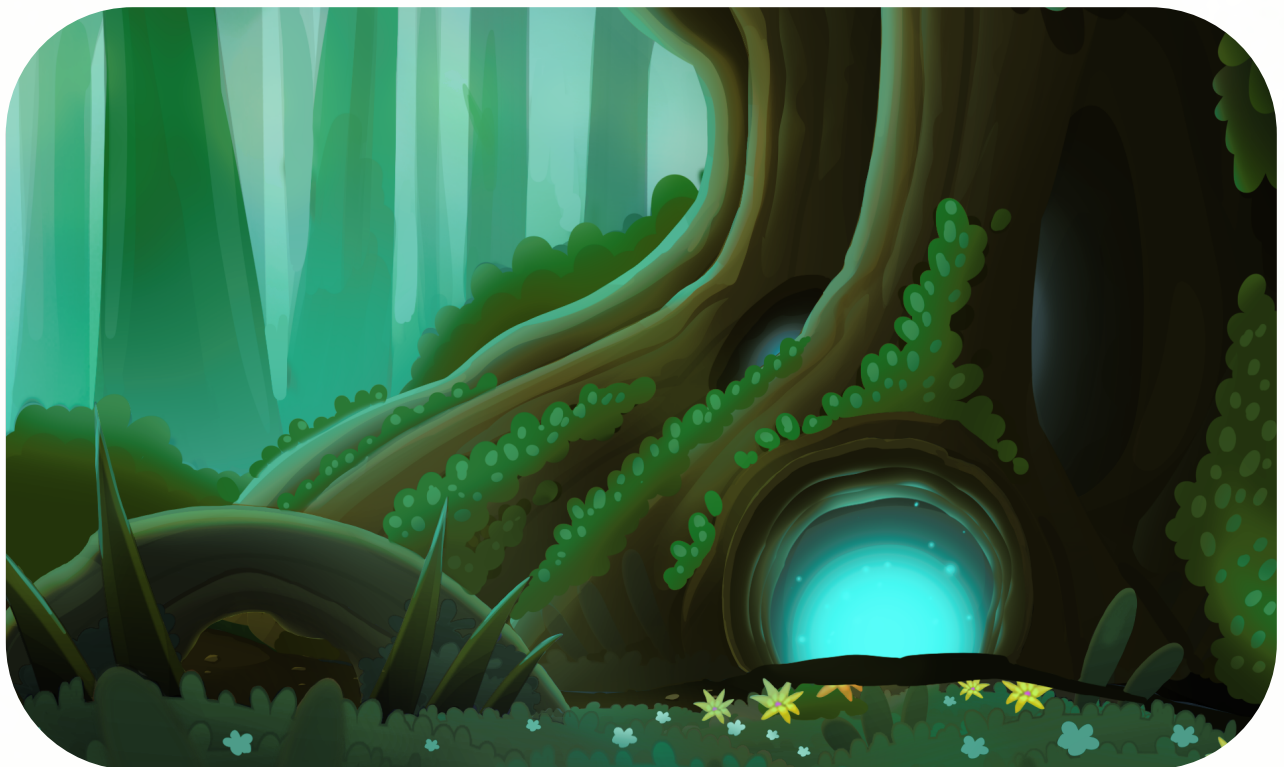
Gabriel Brockman
CEO

Marian Kuruc
COO

Daniel Svonava
CTO

Milan Gajdos
Financial Advisor

SAVE THE WORLD (FOR REAL)

The opportunities for fun, earning, and ecological action are greater than ever before. Nunu Spirits is the first play to earn game that combines these three aspects to create a carbon-REDUCING ecosystem with broad market potential. Our studio is uniquely positioned to deliver this combo.

Collecting digital items is cool but NUNU is the first NFT ecosystem that lets you 3D print your collection!

THANKS FOR VISITING!

contact@nunuspirits.io
@NunuSpiritsNFT

DISCLAIMER

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Nunu Spirits does not recommend that any cryptocurrency should be bought, sold, or held by you. Please conduct your own due diligence and consult your financial advisor before making any investment decisions.

DISCLAIMER

Your purchase of the digital tokens mentioned in this Whitepaper does not create any express or implied participation in equity, nor does it give rise to any rights or claims over revenues and profits, nor does it entitle you to receive any yield or financial interest.

Your purchase is not an investment, and the purchasers shall not expect any financial return from the purchase of the digital tokens mentioned in this Whitepaper.

The purchasers shall have no rights conferred on them other than the right to access the Nunu Spirits web platform and play the game.

You alone assume the sole responsibility of evaluating the merits and risks associated with using any information or other content provided through this document or our website before making any decisions based on such information.

You understand that the crypto market is characterized by high volatility, and you should be aware of the concrete possibility of losing the entirety of the funds you allocate in the crypto market. You should refrain from using funds you cannot afford to lose when purchasing cryptocurrencies and other digital tokens.