WHITEPAPER

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DECENTRALIZED ART ECOSYSTEM & STORY-ORIENTED CHARACTER TOKEN

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DECENTRALIZED ART ECOSYSTEM & STORY-ORIENTED CHARACTER TOKEN

LennyVerse

INTRODUCTION

Vision · Mission · Values · Purpose

LennyVerse can be defined as a Decentralized Art Ecosystem & Story-Oriented Character Token that is deployed on Binance Smart Chain (BSC). Our vision is to build a strong and reliable dapp ecosystem to promote content creation and digital art development, while carrying messages and supporting humanitarian causes. Our primary mission is to provide the community with the fairest and most reliable project, while fostering innovation and progress.

Throughout the life of the project, the role of the development team members is to dedicate their hearts and souls to achieving the goals set out in the roadmap and to provide a long-term sustainable project for the community.

This whitepaper presents the main characteristics that make the LennyVerse project unique from all other projects in terms of added value and innovation.
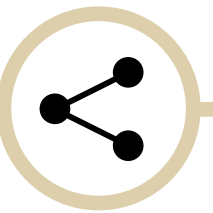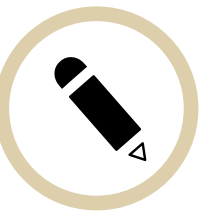
VALUES

COMMUNITY DRIVEN

FAIRNESS

TRUST

INTEGRITY

TRANSPARENCY

INNOVATION

THE PROJECT

Utility Token · Art Ecosystem · Story-Oriented · Character

The LennyVerse project is meant to be an art ecosystem that will promote content creation. LENNY can be defined as a utility token in the sense that its use is purely reserved to interact with the LennyVerse ecosystem.

First of all, LennyVerse highlights the main story of the fictional character Lenny, derived from the famous meme Lenny Face. His goal is to go to the moon, like the many existing meme coins, but he will find himself carried away in a parallel universe where he will face a futuristic Earth and its many problems.

The LennyVerse ecosystem is essentially centered around its Non-Fungible Token (NFT) Marketplace which is itself revolving around Lenny's story. Only LENNY holders will be able to interact with the Marketplace in terms of buying, selling and voting.

The sale of NFT is done through a unique contest system where the registration of NFT by a member of the LennyVerse project community (identifiable as a LENNY holder) must be done by paying a small fee in LENNY.

The rest of the community will then vote for the NFTs to be selected and displayed on the Marketplace. Each LENNY holder will have a number of votes proportional to the amount of LENNY held. The purchase of NFTs will only be done through the Marketplace and only in LENNY.

The voting right may be used in a context other than the NFT Marketplace in order to promote interaction with the community.

Thus, with each development of the story, an artistic ecosystem in the form of NFT will be created and the community will be involved. The story will carry a message and support humanitarian causes.

The project will evolve and grow. For more information on future projects (page 21-23) and the NFT Marketplace (page 18), you can refer to the corresponding pages in the white paper.

THE ROADMAP (1/2)

Utility Token · Art Ecosystem · Story-Oriented · Character

LennyVerse's roadmap aims to be as clear and realistic as possible given the current project and the goals set. As mentioned earlier, LennyVerse is ought to become an art ecosystem based mainly around its NFT Marketplace.

The first step for the development team is to develop the Marketplace. Once it is ready, the team will be able to release the next chapters of the main story where the whole ecosystem process will begin, as described in the project section. Indeed, NFTs will be created for each chapter, involving artists and the community.

When we reach this point, the development team will initialize the "Multi Verse", where the community will be able to write alternative stories to the main story involving support for humanitarian causes. The NFT art ecosystem will also be built around these stories. This will result in a more participative project, which will only be accessible using LENNY.

Once this step is completed, the development team will be able to further develop the concept of the art ecosystem. "Lenny Fest" events will allow the community to share their own digital art and content creations, which will not necessarily be related to the Lenny story. In fact, LennyVerse will grow into an art ecosystem that is not necessarily centered around the Lenny character and will allow the community to share their own breathtaking pieces of digital art.

The ultimate plan for LennyVerse is to become a multi-blockchain utility token with interoperability features. Indeed, LennyVerse will even extend beyond the realm of art in the sense that it will offer different applications to use cases, such as DeFi. Each different blockchain where Lenny will exist will have its own ecosystem of use cases based on the strengths and weaknesses of each. Thus, the end goal is to have this rich LennyVerse ecosystem composed of multiple smaller, differentiable ecosystems operating in different blockchains at once.

THE ROADMAP (2/2)

Utility Token • Art Ecosystem • Story-Oriented • Character

COMMUNITY IDO

First Stage

1

The Dev Team's goal is to ensure that the event takes place in the fairest and safest environment possible. In parallel, the team will intensively work on the development of the NFT Marketplace.

PANCAKESWAP LIQUIDITY POOL

Second Stage

2

The Dev Team will initialize the deployment of the liquidity pool on Binance Smart Chain (BSC) through the PancakeSwap decentralized exchange platform. The team will finalize the development of the NFT Marketplace for an imminent launch.

NFT MARKETPLACE

Third Stage

3

The Dev Team will launch the NFT Marketplace centered around Lenny's story. The team will be in charge of the writing. An art ecosystem will be built around the character of Lenny.

THE MULTI VERSE

Fourth Stage

4

The Dev Team will allow the community members to submit their own version of Lenny's story. An art ecosystem will be built around the chosen stories which would carry messages and support humanitarian causes.

THE LENNY FEST

Fifth Stage

5

The Dev Team will expand even further its art ecosystem by organizing community-driven events where community members will be allowed to share their own personal artwork without necessarily be centered around the character of Lenny.

MULTI-BLOCKCHAIN ECOSYSTEM

Sixth Stage

6

The Dev Team will extend the project beyond the realm of art in the sense that there will be a rich Lenny ecosystem composed of multiple smaller ecosystems operating in different blockchains at once. Each ecosystem will offer different applications to use cases.

Technical Aspects

TECHNICAL ASPECTS OVERVIEW

Smart Contracts Features · Risk Management · Deployment

LennyVerse's smart contracts have been written to benefit the entire community. Indeed, the smart contracts features involve :

- A rigorous way to test smart contracts using HardHat library.
- An innovative way to launch a token (Community IDO).
- A democratic way to interact with smart contracts.
- A robust risk management and hedging against Rug Pulls, Pump & Dump and Whales.
- A Safe Liquidity Deployment

Smart contract testing consists of using the Hardhat library to check the behavior of all functions against different possible scenarios to detect possible vulnerabilities.

The **Community IDO (CIDO)** will be held for a period of 20 days. During this period, early adopters of the project will be able to contribute into the CIDO. The price of the LENNY token will be determined at the end of the event and adopters will be able to redeem a number of tokens proportional to the amount infused relative to the total pool.

A **Democratic Ownership** has been established so that the majority of the development team must agree on every decision that involves a change in a parameter of the smart contract.

The **Safe Liquidity Deployment** will be implemented through the Community IDO. It involves a time-based management of the tokens redeemable by the community and the development team.
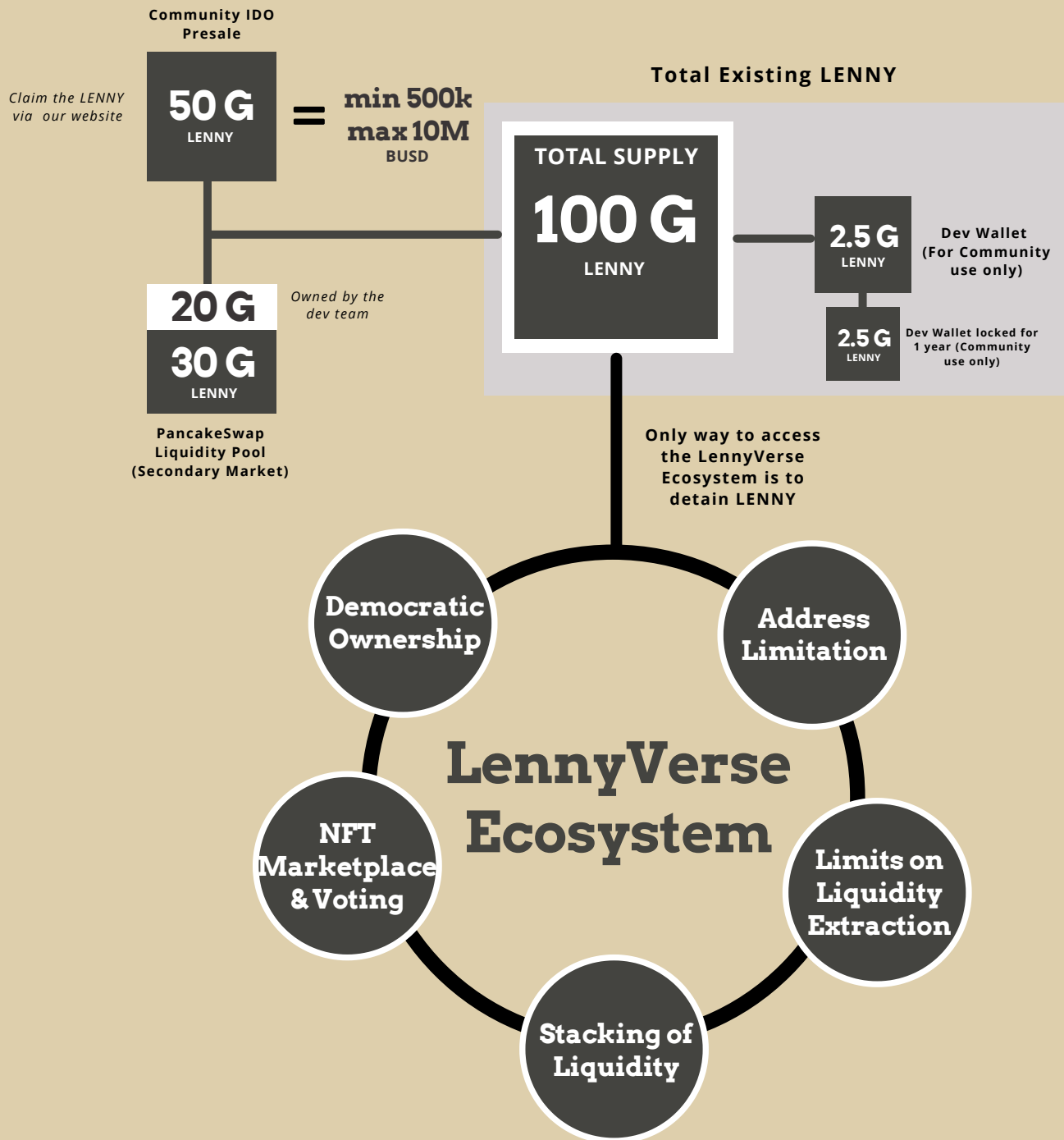
Pump & Dump & Whales risk will be managed by limiting the quantity of LENNY tokens to be held in a single wallet address (500,000,000 per address).

Rug Pulls risk will be managed by limiting the amount of liquidity tokens allowed to be withdrawn by the development team to 10% of the total liquidity owned, once every 3 weeks. It is worth noting that the development team is the owner of 2/5 of the initial liquidity tokens.

In addition, every reward won during a **giveaway event** will be redeemable gradually through time to avoid possible vulnerabilities.

TOKENOMICS

Smart Contracts Features · Risk Management · Deployment

Community IDO Presale

Claim the LENNY via our website

50 G
LENNY

=

min 500k max 10M
BUSD

20 G
Owned by the dev team

30 G
LENNY

PancakeSwap Liquidity Pool (Secondary Market)

Total Existing LENNY

TOTAL SUPPLY
100 G
LENNY

2.5 G
LENNY

Dev Wallet (For Community use only)

2.5 G
LENNY

Dev Wallet locked for 1 year (Community use only)

Only way to access the LennyVerse Ecosystem is to detain LENNY

LennyVerse Ecosystem

- Democratic Ownership
- Address Limitation
- NFT Marketplace & Voting
- Limits on Liquidity Extraction
- Stacking of Liquidity

DEMOCRATIC OWNERSHIP

Let's start by explaining the democratic property. In the LennyVerse project, the development team has the ability to change certain state variables or call certain functions in the smart contract. These actions are reserved for the development team so that they can adapt the behavior of the smart contract according to the situation (these actions and changes are always limited so that the development team does not have too much power).

The risk we face by having functions that can only be called by one administrator address is that if that specific address is compromised, the smart contract becomes vulnerable. The Democratic Ownership adds an extra layer of security on all changes that can be made to a parameter in the smart contracts developed by the development team and therefore reduces the risk mentioned above.
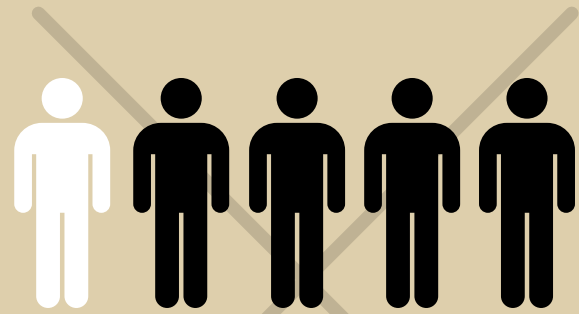
1 OUT OF 5

A single member of the dev team allowed to call functions in the smart contract is not the best options !
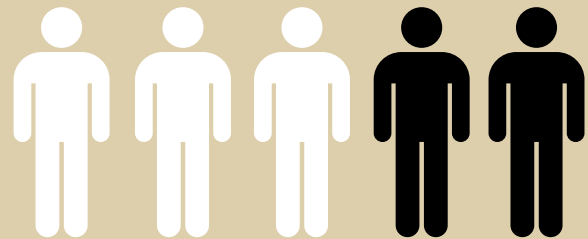
3 OUT OF 5

Members of the dev team must agree on the changes

HOW DOES THE DEMOCRATIC OWNERSHIP WORK ?

For each smart contract that will be developed by the development team, we have determined 5 administrator addresses that cannot be changed during the lifetime of the smart contract. For each change that needs to be made to a parameter of the smart contract, we have a boolean variable that indicates whether we can call the private function. This boolean is always "false".

Now, every time we want to change a variable, we have to call a function that will change the boolean to "true" for a period of one hour. To call this function, we need to be at least 3 of the 5 addresses of the development team. Thus, if one of the addresses is compromised, the smart contract is still secure since the important functions cannot be called. Moreover, the majority of the development team must agree on the changes made to the smart contracts.

ADDRESS LIMITATION

500M

LENNY TO BE
OWNED BY A
SINGLE ADDRESS

To avoid the existence of "Whales", we decided to set the maximum amount of LENNY tokens owned by a single address to 500,000,000 LENNY at the beginning of the project. This value can be changed through the Democratic Ownership smart contract mentioned above. It should be noted that the value will never be below 100,000,000 LENNY.

We know that it does not change the possibility that a single person owns multiple addresses but it will add a layer of complexity to own more than 500,000,000 LENNY for a single person since he/she will have to credit multiple addresses with other tokens.

Some addresses will be exempt from this restriction, such as smart contracts that must store a large amount of LENNY.

Through the implementation of the address limitation dimension, we ought to reduce two of the biggest problems using decentralized exchange platforms which are "Pump & Dump" and "Whales" movements.

We thus aim to create a healthy environment that is conducive to innovation coupled with a safe ecosystem for the community.
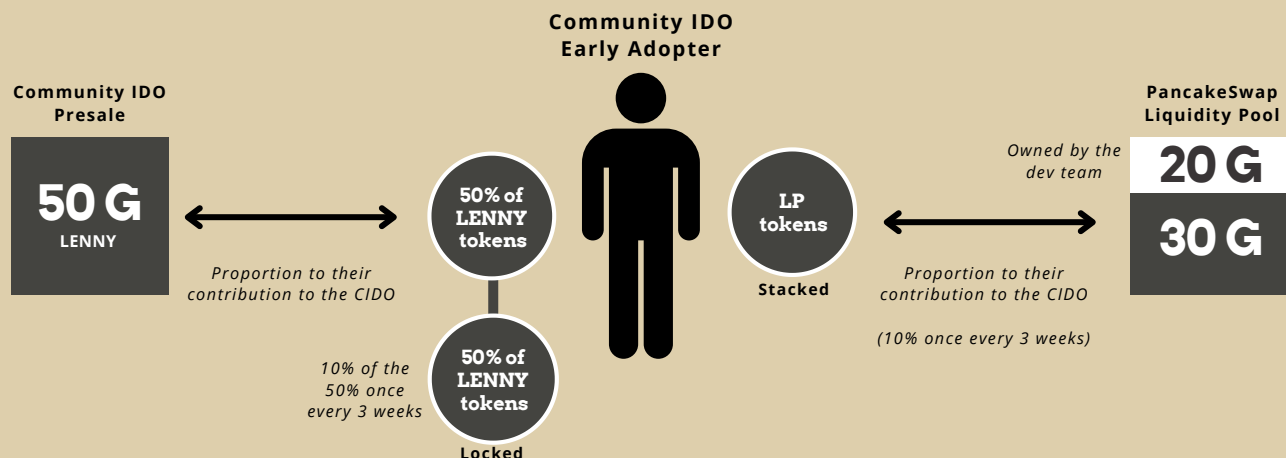
COMMUNITY IDO

The Community IDO is the main smart contract of the project. We want LennyVerse to be the first story-oriented token to be launched by its community. This will reduce the "Pump & Dump" and "Whales" risks when launching the project. To do so, the development team innovates by introducing the Community Initial DEX Offering (CIDO).

This Smart Contract will work as follows:

- During the Community IDO, we are offering 50,000,000,000 LENNY for a minimum of 500,000 BUSD and a maximum of 10,000,000 BUSD. If the amount injected in the CIDO does not reach the minimum required, the early adopters will be able to retrieve their contributions through our website. Also, if the amount reach the maximum, the CIDO will stop accepting the contributions.

- The maximum amount that can be injected in the Community IDO is 5,000 BUSD per address. This will prevent "Whales".

- After the CIDO presale period, the development team will deploy the first liquidity pool on PancakeSwap on Binance Smart Chain (BSC) (LENNY/BUSD) using the amount received from the community for the equivalent of 50,000,000,000 LENNY. This will allow the deployment of LENNY on the secondary decentralized market without any arbitrage on the price. From the 50,000,000,000 LENNY used in the liquidity pool, 20,000,000,000 LENNY are owned by the development team and 30,000,000,000 LENNY are owned by the community.

- Once the liquidity is deployed, the community will be able to claim 50% of the amount of LENNY they detain through the Community IDO immediately. For reasons of security for the whole community, the other 50% will be locked and everybody will be able to retrieve 10% of the 50% once every 3 weeks (cumulative) through the website. In summary, it is worth noting that each early adopter who participates in the CIDO will receive an amount of LENNY tokens in proportion to their contribution to the CIDO (50% immediately and 50% later) as well as LP tokens in proportion to their contribution to the CIDO.

- The liquidity stacked by the community will be redistributed at a rate of 10% once every 3 weeks. The community will be able to claim their LP tokens through the LennyVerse website.

**Community IDO
Early Adopter**

**Community IDO
Presale**

50 G
LENNY

*Proportion to their
contribution to the CIDO*

**50% of
LENNY
tokens**

*10% of the
50% once
every 3 weeks*

**50% of
LENNY
tokens**

Locked

**LP
tokens**

Stacked

**PancakeSwap
Liquidity Pool**

*Owned by the
dev team*

20 G

30 G

*Proportion to their
contribution to the CIDO*

(10% once every 3 weeks)

HOW WILL THE COMMUNITY IDO WORK ?

We are going to take an example of an early community member going through the process of adopting LENNY through the Community IDO.

This member wants to adopt LENNY for 1,000 BUSD. Using the LennyVerse website, he/she will be able to send BUSD to the Community IDO Smart Contract.

The computation of the amount of LENNY received will be done according to the total amount of BUSD contributed by all adopters.

For example, if the total contribution amount received by the contract is 10,000,000 BUSD, the portion of BUSD contributed by this member represents 0.01% of the total BUSD (1,000/10,000,000 total BUSD). In that case, this member will receive 5,000,000 LENNY tokens (50,000,000,000 LENNY Community IDO pool x 0.01%).

We also added a maximum amount of 5,000 BUSD that can be invested per address during the CIDO. It means that each address can spend a specific amount of BUSD. Indeed, this is implemented to avoid possible whales through the CIDO.

If the smart contract does not receive more than 500,000 BUSD during the CIDO, the adopters can easily retrieve their BUSD from the smart contract by the end of the CIDO period. Also, if the smart contract receive the maximum amount of 10,000,000 BUSD, the CIDO will end and will stop accepting more contributions.

SECONDARY MARKET

In a case of success where the smart contract receives more than 500,000 BUSD and the CIDO period has ended, the development team will deploy the liquidity pool LENNY/BUSD on PancakeSwap (BSC) and the smart contract will receive the Liquidity Tokens.

After this action is completed, the community will be able to retrieve 50% of their LENNY. In our example, we will be able to retrieve 2,500,000 LENNY through the LennyVerse website. The other 50% will be locked and redistributed gradually at a rate of 10% once every 3 weeks. In our example, this means the member will be able to retrieve 250,000 LENNY once every 3 weeks. The secondary market will open up. At that same moment, the liquidity pool will

be composed of the 50,000,000,000 LENNY for 10,000,000 BUSD so there is no arbitrage possible between the price at which early adopters obtained their LENNY for and LENNY secondary market price.

Moreover, the addresses who contributed through the Community IDO will also have LP tokens, meaning that they can retrieve liquidity from the liquidity pool. Indeed, the community owns 3/5 of the LP representing 30,000,000.000 LENNY (initially as the LP is destined to have more or less LENNY) that is stacked through the Community IDO. In our previous example, the community member still has 3,000,000 (3/5 x 5,000,000) LENNY stacked because of their 1,000 BUSD initially injected.

HOW ARE WE GOING TO EXTRACT THE LENNY THAT IS STACKED THROUGH THE COMMUNITY IDO?

The liquidity stacked in the Community IDO can be retrieved by any member according to the amount of LP tokens they detain.

The liquidity extraction function on the Community IDO can only be called once every 3 weeks for 10% of the Liquidity (LP) Tokens owned by the smart contract.

The decision of selling the Liquidity Tokens will be given to each community member. If they want to keep stacking their tokens (LENNY/BUSD), they can just keep their LP tokens in their wallet. It should be noted that the limit on the extraction is cumulative, meaning that the opportunity of extraction won't be lost.

The minimum time before all the liquidity can be retrieve is approximately 8 months. In the event where the community decides to sell 10% of their LP Tokens , they can do so by using the LennyVerse website or directly using PancakeSwap application.
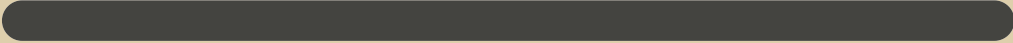
In our previous page example, we will claim the equivalent of 3,000,000 LENNY for 600 BUSD (initially as the LP is destined to have more or less LENNY). It is important to understand that the ratio of LENNY to BUSD (3/5 for the community and 2/5 for the development team) that will be claimed will be different due to the transactions made in the secondary market. The arbitrary number of 3,000,000 LENNY to 600 BUSD are likely to be different. If the price of LENNY appreciates, the amount of BUSD claimed will be higher and the amount of LENNY claimed will be lower. For further information, please refer to Uniswap V2 documentation.

Moreover, transaction fees from PancakeSwap have to be added as extra rewards for stacking as every transaction will result in transaction fee earnings that will automatically be added back in the liquidity pool. More information on PancakeSwap transaction fees and the stacking of the liquidity are provided on the next page.

In a nutshell, the main reasons of using the Community IDO is to reduce "Rug Pulls" risks and the risk of having "Whales" and "Pump & Dump" at the early stage of the project.

ONCE EVERY 3 WEEKS: liquidity extraction function can be called
(10% of Liquidity Tokens owned)

~8 MONTHS: minimum time before all Liquidity Tokens can be released

PANCAKESWAP TRANSACTION FEES & STACKING OF LIQUIDITY

The PancakeSwap decentralized exchange platform has implemented the classic Uniswap V2 0.3% transaction fee for swapping tokens. The fees are added back into the liquidity pools meaning that the more LENNY transactions there will have, the more liquidity will be injected in the pool.

It should be noted that the participants in the Community IDO will be granted LP tokens according to their contribution in proportion to the total amount collected. It should also be noted that the community owns 3/5 of the liquidity pool while the development team owns 2/5.

These two pieces of information can be used together to calculate the amount of liquidity that each early adopter can retrieve from the liquidity pool.

Hence, the liquidity that is not retrieved by a participant is "stacked" inside the liquidity pool. Because the PancakeSwap transaction fees will increase the liquidity, the community has an incentive to keep stacking in the long run.

The stacked liquidity owned by an address cannot be retrieve all at once as it is subject to a limitation of 10% once every 3 weeks. It would take approximately 8 months to retrieve all the stacked liquidity.

WHAT?

To understand how this mechanism can help the community, we can look at the following example:

Right after the Community IDO, the early adopters will obtain LENNY tokens and LP tokens.

Each transaction on PancakeSwap (secondary market) will cost 0.3% which will be added back in the liquidity pool.

Thus, early adopters with LP tokens would have an incentive not to withdraw the liquidity as they will benefit from the stacking. As a matter of fact, the community will participate in the project as well as they provide the liquidity for the proper functioning of the whole process.

0.3% Fee
TRANSACTION

Liquidity Pool
PANCAKESWAP

Stacking of Liquidity

Fees are added back in the liquidity pool, hence increasing the liquidity

CIDO participants obtain LP tokens to retrieve stacked liquidity

HARDHAT SMART CONTRACT TESTING

The Polygon hack has sparked some conversation around the "smart" aspect of contracts and the limitations created by human error. We believe that in order to serve the community, it is necessary to spend meticulous time testing our smart contracts with the goal of reducing vulnerabilities.

In order to provide secure smart contracts, we forked the BSC mainnet to replicate the exact environment in which our smart contracts will interact, using Hardhat. Then we simulated and tested what we thought were all possible scenarios.

It is worth noting that even though we have put countless hours and effort into testing our smart contracts, we are still exposed to human error. That's why we want to take it a step further in the future by developing an AI-driven testing solution. Using AI will allow us to explore tens of thousands more possibilities than is humanly conceivable. The technique will be to use an AI agent to explore the search space for all possible permutations of our smart contract functions. The goal of the AI is simple: find an arrangement of functions and arguments that could be exploited by a malicious agent.

We also plan to perform a certified audit of our main smart contracts.
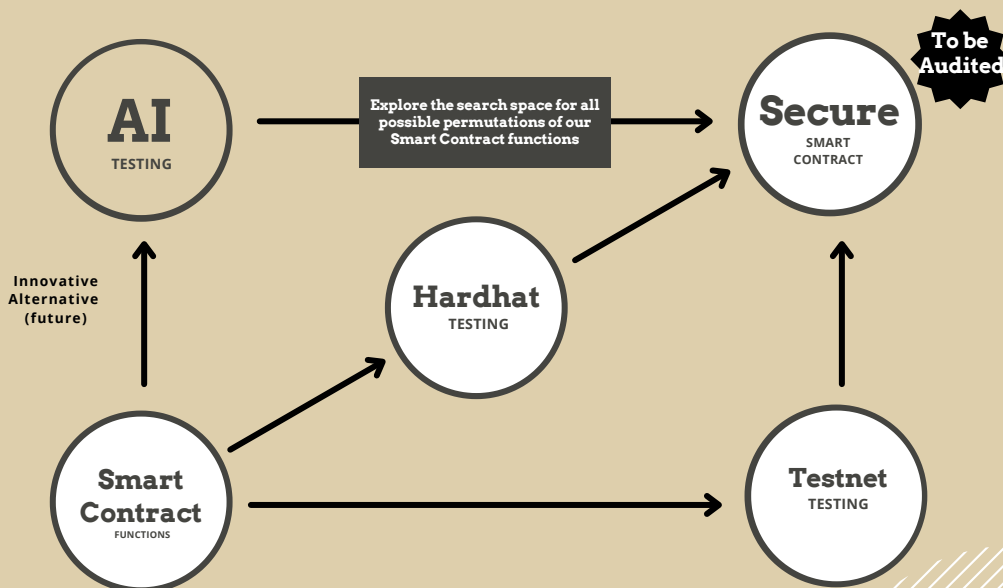
NFT MARKET PLACE
(1/2)

The LennyVerse development team is working on establishing its art ecosystem based on the creation of its NFT Marketplace where a variety of NFTs will be offered through the LennyVerse website. The ecosystem will only be accessible for the community members, identifiable as LENNY holders. There will be three layers of operation regarding the NFT Marketplace:

The Dev Team
The development team will be able to submit 10 NFTs where the community will vote for their 5 favorites. These unique NFTs will essentially focus on the story. The team will also be able to launch collections, limited to 1 per chapter.

The Artists
Special NFTs will be produced by artists who are willing to submit their work for potential partnership. We plan to select up to 10 artists per chapter of the story and each artist will create his/her own digital artwork to be shared on LennyVerse Marketplace. A maximum of 5 depictions of each chapter will be offered through the Marketplace, chosen from the artists mentioned above through a voting system involving the community.

These NFTs can only be purchased with LENNY tokens and an auction system will be set up with a reserved price.

The artist will receive 80% of the LENNY while the development team will receive the other 20%.

The Community
Every member of the LennyVerse community, identifiable as LENNY holders, will be able to share their artwork in the ecosystem (1 NFT per address) in exchange of a small fee of 500 LENNY and a lock of US$50 in LENNY for 1 week, for security reasons.
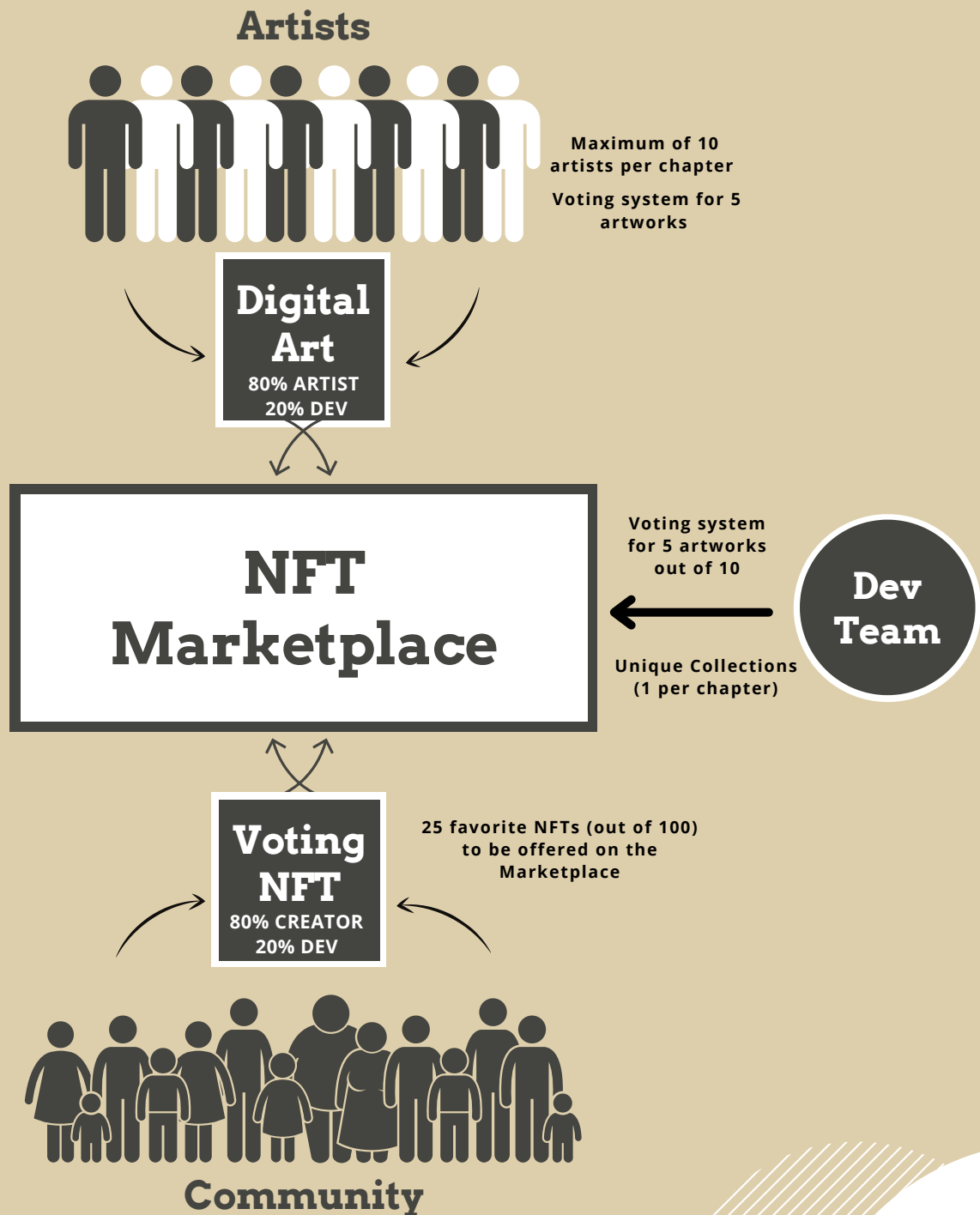
A maximum of 100 NFTs will be accepted to enter a contest system where the rest of the community will be able to vote for their 25 favorites to be offered in the Marketplace.

Every community member will have votes proportional to the amount of LENNY held. The NFTs offered in the Marketplace can only be purchased in LENNY tokens and an auction system will be set up with a reserved price. The starting price of each NFT will be determined according to the number of votes obtained.

Just like the case of the artists previously mentioned, there will be a split of 80%/20% between the creator of the artwork and the development team.

NFT MARKET PLACE
(2/2)

Artists

Maximum of 10 artists per chapter

Voting system for 5 artworks

Digital Art
80% ARTIST
20% DEV

NFT Marketplace

Voting system for 5 artworks out of 10

Dev Team

Unique Collections (1 per chapter)

Voting NFT
80% CREATOR
20% DEV

25 favorite NFTs (out of 100) to be offered on the Marketplace

Community

Future Projects

THE MULTI VERSE

The LennyVerse project plans to expand its artistic ecosystem by opening the door to a multiverse of Lenny's story. Indeed, the development team would allow community participation in writing alternative stories to the main one. Thus, Lenny's story would have a much broader scope by touching on many more topics. Added to this is the fact that the stories will have to support humanitarian causes and carry strong messages. In this sense, the members of the LennyVerse community would together support sensitive and human themes with the aim of potentially changing society's morals, or at least positively influencing the way some people see things and interact with the world.

Each alternative story will be shared through a voting process in which the community will decide which stories best represents their interests, just like the Community NFTs explained earlier.

After that, the chosen stories will be officially posted on the website, leaving room for the creation of an artistic ecosystem around each one, just as we did for the main storyline. Remember that it will only be possible to interact with the ecosystem using LENNY tokens.
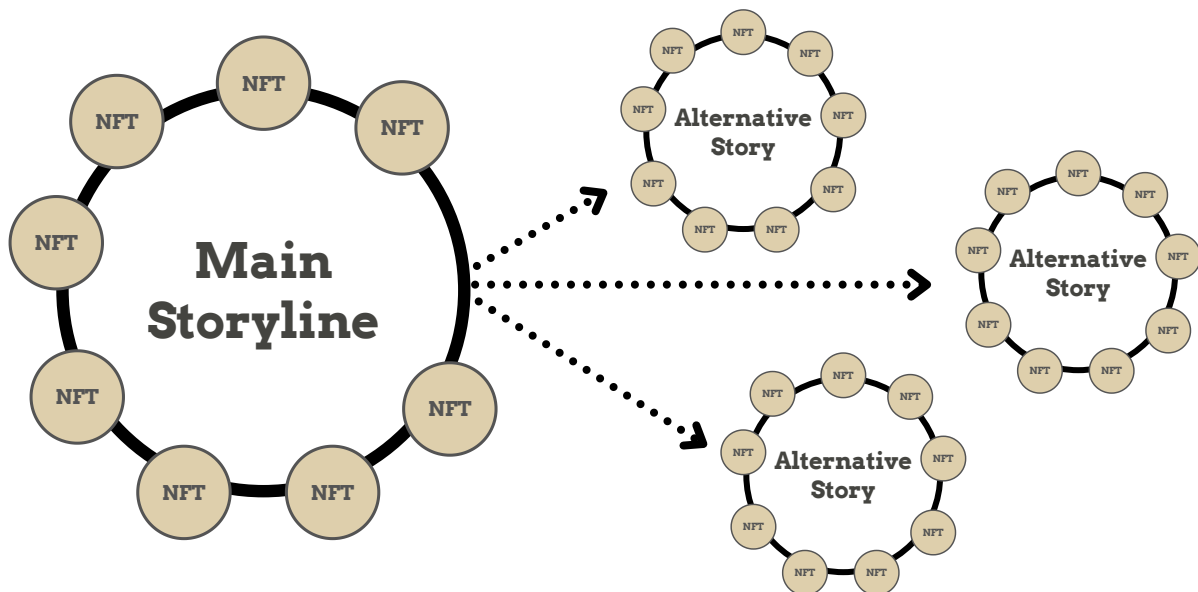
THE LENNY FEST

The LennyVerse project intends to go even further in the development of its art ecosystem. Indeed, the development team plans to launch events called "Lenny Fest" where the LennyVerse community would be allowed to share their own personal works of art that will not necessarily be centered around the Lenny character.

Artists and members of the LennyVerse community from all around the globe would be able to post their work on the NFT Marketplace. The goal is to have a strong and united community sharing the same passion for art and allow them to explore the different styles and designs of the ecosystem during the event.
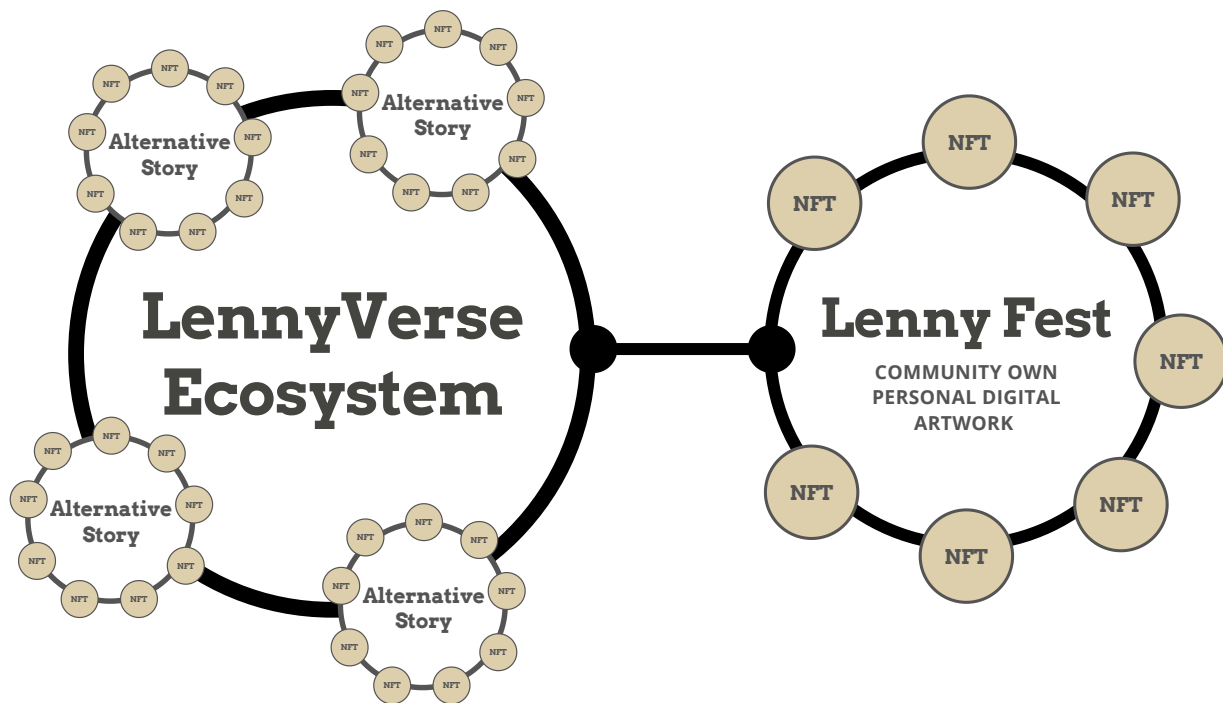
MULTI-BLOCKCHAIN ECOSYSTEM

The ultimate objective of the LennyVerse project is to become a multi-blockchain ecosystem with interoperability between them using the concept of bridges. As a matter of fact, LennyVerse will operate differentiable ecosystems that solve specific use cases depending on the strengths and weaknesses of each blockchain.

The LennyVerse project will transcend the realm of art to tackle use cases in different fields such as DeFi and AI. The huge LennyVerse ecosystem composed of smaller field-oriented ecosystems will only be accessible using the LENNY token.
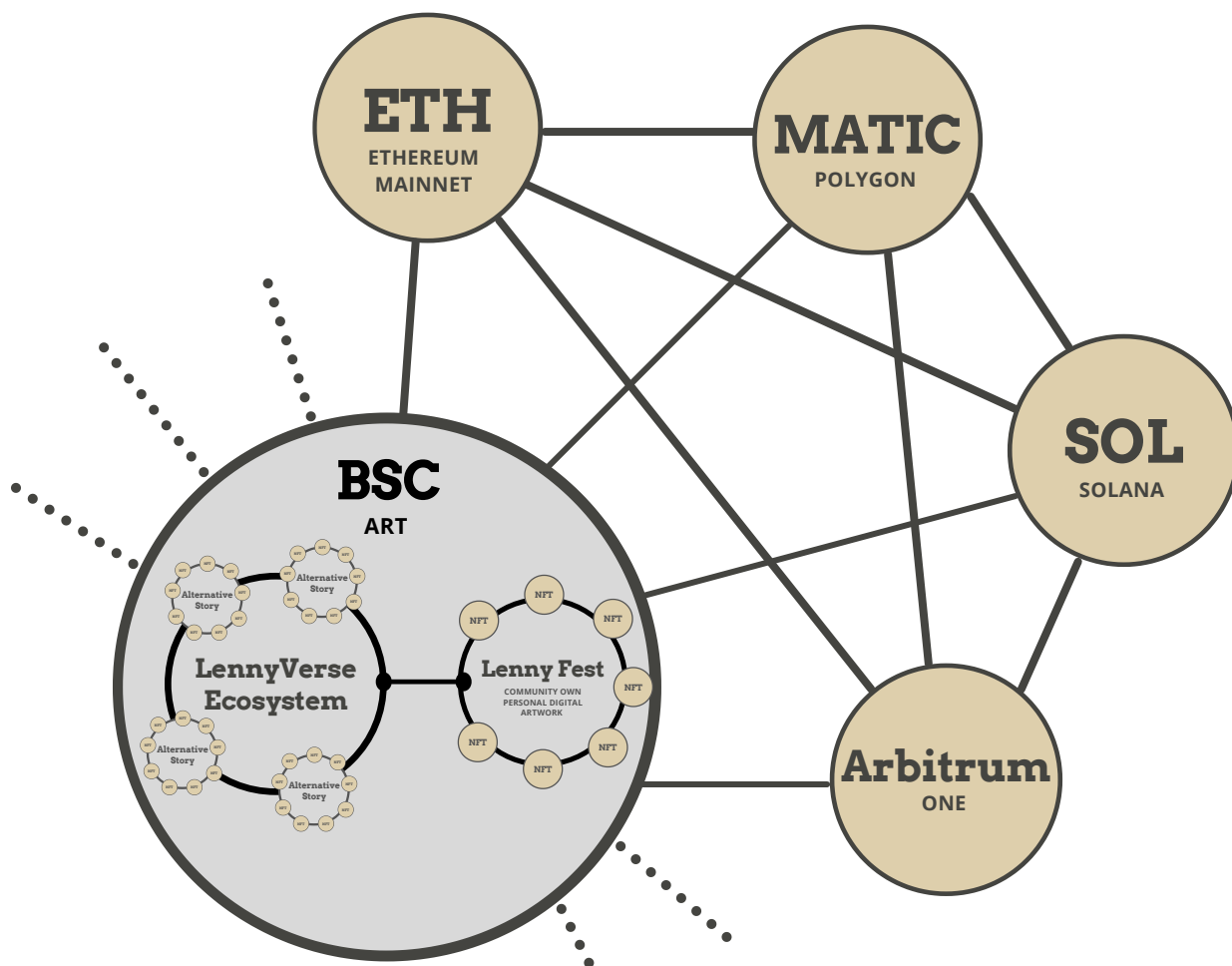
Appendix

LENNY SAVES SQUID

One of the goals of LennyVerse is to make a difference, help the community and support humanitarian causes. Following the recent events regarding the Squid Game Token (SQUID) scam, LennyVerse has decided to stand up and support people looking for help. Indeed, LennyVerse will allow these people to send the address of their public wallet. They will be able to retrieve LENNY for free after the community IDO ends.

The development team will conduct the following process:

- Get a list of addresses of all the holders of SQUID on November 3, 2021.
- Collect the submitted addresses through the website.
- Verify that the addresses match those collected on November 3, 2021.
- Send LENNY tokens to the verified addresses after the CIDO ends.

Steps to follow if you are a SQUID token holder:
- Go on our website and send us your public wallet address.
- Wait until you receive your LENNY tokens.

The LennyVerse Team