

WHITEPAPER

METARCHITECT

IMAGINE LIVING IN A BLOCKCHAIN

Wazid Kautsar Bahri, Muhammad Sulthoanuddin Akbar,
Dimas Syahrul Rifai, Mustajir Pangestu Langgeng,
Radityo Bagus Raharianto, Chudori Muhammad Fahtevi,
Tadzkira Mumtaza Rifa'i.

 nestercity

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1. Discussion

According to [Milmo \(2021\)](#), the Non-Fungible Tokens (NFTs) market have generated more than \$22 billion in 2021, and the business will continue to grow aggressively in the year after. However, many people are still left unaware of what NFTs are.

The rapper Eminem recently paid \$464,000 for an NFT with a caricature of a digital ape from one of the most prominent NFT players in the market. Other celebrities, including Justin Bieber, Post Malone, and Britney Spears, have joined this new gold rush for crypto art. The auction of an NFT by digital artist Beeple for nearly \$70 million was the craziest transaction in early 2022 ([Esade, 2022](#)).

Despite the experts' good predictions and the wave of euphoria around the future of NFTs, there are reasons to be concerned that a speculative bubble may arise and burst. The rise of NFTs has been questioned by media outlets such as El Pas and Forbes. Moreover, starting an NFT is considered a simple and exciting idea, limiting the business possibilities. However, when the element of complexity is slight, many NFTs will appear naturally. Thus, the value will eventually decrease as the assets are not distinctive. Nevertheless, NFTs are projected to become the future of digital ownership, owing to blockchain technology.

The first use of NFTs is as a guarantee of authenticity. NFTs verify a person as a single owner of that digital asset, emphasizing another essential feature: the simplicity with which it may be transferred. With NFTs, now the internet can allow the exchange of ownership that has a significant value.

Nestercity, the NFTs-metaverse embedded project, ensures the complexity of the NFTs and makes them unique. Similar to designing and constructing a real world, it allows people to hold a digital asset with unlockable content, such as a 3D Metaverse that can produce an equivalent experience to the physical world. An immersive virtual meeting can also occur.



2. Introduction

Architecture is a crucial framework of culture and history, defined as the art of designing human shelter and protection. Therefore, it is ironic that protecting architecture as a creative work remains an unsolved issue in many locales.

A significant point of contention is whether it should be legal to recreate the building technique and styling of an architectural work located on a public site. If architecture is defined as an art, intellectual property rights should offer its protection. However, many laws allow the reproduction of architectural works with the argument that the work is "*utilitarian*" and "*publicly situated*."

Another debate lies in the act of creating derivative artworks from the architectural object. Should a person make a painting (or a photograph, or a logo) from the likeness of a building, would the architect share in the resulting object's intellectual property?

Architects should arguably have "*moral rights*" by defining architecture as art. These include the right to preserve the work and ensure that designs are not modified without permission. Few countries have implemented these rights (notably Australia, after the Moral Rights Act of 2000), but this is an exception rather than the rule. Buildings are modified by building owners all the time during renovations and expansions.

The protection of the rights of architects, therefore, varies between jurisdictions and remains a problem in many cases. Nestercity aims to take the first step to solve this issue.

At Nestercity, we believe that implementing non-fungible tokens (NFTs) under a decentralized community-run organization, with cross-metaverse interoperability, would allow architects to monetize better and control their architectural work, as well as prevent plagiarism through mechanisms of on-chain proof. The metaverse component allows our architectural NFTs to be usable in the digital realm, while blueprints baked into unlockables provide a way to deploy these works as real-life builds. The proposed decentralized journey is initiated through a centralized concept.



3. Centralized Concept (Metarchitect)

The centralized implies Nestercity's in-house architect as the creator of the NFTs, which marks the initial start of the Metarchitect (metaverse-architecture) journey. The idea arose when we, as an architect, regularly designed and constructed houses for the client. Reflecting on the experience of observing a lot of new 3D designs that follow the project completion, we decided to brainstorm, aiming to create post-values. Nestercity then came up as an NFT project in 2022's 2nd quarter, minting on Paras built on the NEAR protocol to capture the opportunity of non-fungible 3D architectural NFT-embedded metaverse. We are promoting a more transparent model of intellectual property tracking for the art of Architecture.

During our centralized project, Nestercity initiates initial NFTs sales. A total of 300 3D architectural NFTs are created with four different rarities, i.e., Common (75%), Rare (17%), Unique (14%), and Legend (3%). The project has four batch releases, as listed in the table below.

Table 1. NFTs initial sales on Centralized Concept

Batch release	Date	Amount of NFT
Batch 1	May 2022	50
Batch 2	July 2022	70
Batch 3	August 2022	90
Batch 4	November 2022	90

Our initial NFT sales distinguishes three city themes, namely Nesteria, Exteria, and Nestylum. Each represents socio-technical characteristics, including city landscape, societal composition, and supporting infrastructure.

3.1 Nesteria (Futuristic city)

Nesteria is a futuristic city supported by advanced technology, which highlights the appearance of skyscrapers, environmentally-friendly renewable energy used in transportation and energy sources for housing and public facilities, zero carbon emission vehicles bolstered by autopilot systems, wireless technology, and sensors that can be found at every location in Nesteria.





Fig 1. The Nesteria concept

People at Nesteria generally have applied hologram and wireless technology to make every business in their life easier. This futuristic city guarantees optimal life quality and improves the comfort and health of individuals working and living within the city. What can be seen at a glance from Nesteria is speed-technology-efficiency.

3.2 Exteria (Steam-punk)

Exteria takes the concept of Steampunk's technological developments in the 19th century, reminiscing the first industrial revolution that occurred on Earth. To run, the city relies on diesel, steam power, or even counterweighted clockwork technology. The atmosphere of life in the Victorian era was where identical women wore corsets and men wore tiny hats. They brought gear-encrusted guns and a steamy vibe that can be felt at every end of Exteria Street. Airships, big cargo vehicles, and steam trains are the primary vehicles at Exteria.



Fig 2. The Exteria Concept

The sun rises along with the whisper of burning embers and the rattling of the teeth on every facility and technology around. Lots of giant gears. Huge black clouds for rampant industrial expansion. Wires everywhere for trolley/cable cars going in all directions. Big hammers make



loud banging sounds in the background as an industrial worker walks away through the fire sparks and machine steam.

3.3 Nestsylum (Beyond-earth)

Nestsylum takes the desert atmosphere on Mars. The civilization successfully built from space exploration was triggered by an old earth condition, vulnerable to climate change, rising temperatures, and sea levels that began swallowing every city. An alternative living location is needed for the survival of humankind. Scientists have succeeded in finding a way to live on mars with remarkable technologies that have been developed, such as spacecraft and a living dome.



Fig 3. The Nestsylum concept

The heat shield barrier has been formed to protect humans living on Mars and is powered by technology that utilizes solar power. Such discovery allows a new settlement in space to be inhabited. The exploration rover, the primary vehicle for Nestsylum, has developed into a fast rover and cargo rover.

The solar-powered train has also become one of the public transportation facilities used by residents in Nestsylum. The views of the dusty desert, state-of-the-art technology, and up-close stellar views are the hallmarks of Nestsylum. The attached value to each of the NFTs we put forward about our architectural design is designed by actual architects in the form of isometric 3D-Art. Our NFTs are not a generated art; our architects, with thousands of inspirations, manually create all the 300 NFTs.

The unlockables are the ones that raise the value of our NFTs. Our amazing unlockables consist of private metaverse with the same design as the isometric 3D art. The metaverse is fully-accessible, customizable, and utilizable, and with different sizes of buildings.

To build a solid community and users, we aim to develop a partnership to present how far users can utilize our metaverse and create a historical value. Thus, we encourage partnership and collaboration with other NFTs projects.



4. Community Building

Building community is one of our primary focuses, utilizing all social media platforms and forums to gather people to our Discord server. Nestercity acts on twitter by providing many entertaining, informative, and engaging contents to build a fun front-gate community. A message to join our Discord server can be found in almost all of our media (image/video), showing how serious we will be about building a community.

Engaging with our collectors is included in our daily routine, with being transparent and demonstrating our progress. Nestercity's Discord server provides many channels, including general, region-specific, hobby, and voice channels. These channels were created to encourage the community to express what they like and whatever language they prefer.

Nestercity is also anchoring project collaboration with other NFT Projects and tailoring every community on NEAR Protocol, starting by focusing on Paras marketplace NFT Project/artist and introducing and educating the community about architects and metaverse.

Shortly, we will embrace the newcomer NFT Projects/Artists to experience an extensive NFT Exhibition on our metaverse. We will try to maximize our partnership horizon and motivate the NFT Community.



5. Decentralized Concept

5.1 Marketplace by Architect

Decentralised NFT marketplace for architects and 3D design artists specific to buildings, e.g., houses, offices, exhibition halls, villas, hotels, etc. It implies a curated Marketplace for architecture.

Despite many NFT marketplaces in the Web3 arena, no specific marketplace can cater to architectural features such as 3D view, virtual reality (VR), and augmented reality (AR). Meanwhile, the opportunity for the architectural industry, both in the physical and digital world, is enormous. There are around 1.3 million architects and 3D artists, 10 million 3D building users and asset users, and 61 architect firms worldwide. Those figure substantially render a total of \$80 billion market size in 2022. The 3D building assets in the market are primarily used for Real-world construction, game asset, and the metaverse.

While customers can purchase architectural NFTs, only verified architects and 3D artists can mint NFTs for sale. Our marketplace proves those eligible architects to create 3D buildings that meet architectural standards. The architects will be requested to fill out forms that entail portfolio, level of education, and educational background to represent the standard. Our Decentralised Autonomous Organization (DAO) will later assess whether or not they are eligible to be the verified creator.

This marketplace is a new opportunity for leveraging architects' values. Besides working as a regular building designer, they can create unique and open-minded designs that will be sold as valuable digital assets.

Architects and 3D designers are subject to overworking and can be comparable to companies such as management consultants. It is because of the nature of dealing with a client where the scope of work is not communicated, and changes in design expectations exacerbate the process. From customers' perspective, the utility lies when they purchase such digital asset, which is highly tradeable and hold a virtual gathering. The digital asset is subject to an increase in price due to non-fungibility. The owner can rent the space for a virtual gathering where visitors pay with a \$NEST token. This environment implies prospective economic activities by collecting NFTs.

5.2 Opportunities

The production of digital assets by architects and amateur 3D artists as creators has numerous demands. The assets can be in the form of 3D architectural and conceptual and 3D art and project files for architect and amateur 3D artists, respectively.

According to the American Institute of Architects (2016), (1) architects cannot copyright an idea, only original expressions of that idea, and (2) certain elements of architectural designs are so common that they are, by law, unprotected. With the support of web3 technology, specifically, NFT, the creators' rights can be protected, as the famously known quotes of **"NFTs grant people virtual property rights"**.



The assets are targeted to be used for NFT creators and collectors by presenting roadmap and utilities and finding artists, presenting web3 to real-world by integrating building value with copyright system in blockchain (NFT), metaverse users and creators, and providing buildings for game assets focusing in the game industry (gamefi/non-defi games) and portal-game virtual showcases.

5.3 State of The Market

Reflecting on the metaverse market reports conducted by Market and Markets, the global metaverse market size is projected to have a significant growth at a Compound Annual Growth Rate (CAGR) of 47.2% in 5 years, from 2022 to 2027. Adapting the centralized and decentralized gateways and metaverse-based social media platforms has increased the demand. As other sources said:

“The proliferation of IoT, BIM, and project complexity has prompted an aggressive market size that is not only applicable for real-world building structures, but also as digital assets (architectural designs).”

Dividing the market into several segmentations, our market size is:

- (1) 1.3M for architects and 3D artists, including college students, researchers, consultants, and NFT architects,
- (2) 10M for 3D buildings and assets users, including real-world construction, metaverse, buildings on games, and collectible NFT,
- (3) 80B in the market (USD), consisting real-world construction, metaverse, game assets, and collectible NFT, and
- (4) +61,000 for architect firms worldwide, with a number of +17,000, +7,500, 11,500, and 25,000 for US, UK, Asia, and EU, respectively.

5.4 Vision

“Accelerated and monetizable architectural designs for the metaverse and the blockchain ecosystem”

Since the 18th century, Europeans have already considered Intellectual Property Rights (IPR), and many unique designs were presented in an exhibition. However, some countries are reluctant to participate for fear of their ideas being stolen and exploited commercially. From that time on, it increases the internal protection of intellectual works.

Architecture is a key to culture and history, defined as the art of designing human shelter and protection. Architects should have *“moral rights,”* including the right to preserve the work and ensure the designs are not modified without permission or plagiarized. Protecting architects’ rights varies between jurisdictions and remains a problem in many cases.

Nestercity aims to solve the problem by giving architects a chance to monetize better and control their work and prevent plagiarism through mechanisms of on-chain proof by reflecting



on the unfavorable circumstances. It is by implementing the non-fungible tokens (NFTs) under a decentralized community-run organization with cross-metaverse interoperability.

The architectural NFTs could be useable in the digital realm, while blueprints baked into unlockables, providing a way to deploy works as real-life builds in the metaverse.

Nestercity built 300 “genesis” NFTs, including professional architectural designs, purchasable in a decentralized and sovereign way. Promoting a more transparent model of IP tracking for the glorification of Architecture.

5.5 Solution

Nestercity’s integral value lies within our aims to help architect maintains their property rights by selling their assets in the blockchain ecosystem. Thus, we have several solutions:

- (1) NFT Marketplace
- (2) dApps Marketplace focuses on 3D implementation and integration
- (3) Build land in the metaverse
- (4) Curation by communities with DAO
- (5) API integration to an interoperable metaverse

Nestercity Activities

Activities of Nester include:

- Building DAO Ecosystem for architect community and governance to curation an Architect with a decentralized system.
- Allowing the community to participate in the DAO by passing project proposals and voting.
- Gathering and developing the community, providing educational content as one of the giving back to the community.
- Engaging in partnership and collaboration with other NFT/web3 projects to build a wider community.
- Creating metaverse events to embrace the newcomer or developing NFT projects to increase community value.
- Building a functioning marketplace for artists to sell their digital collectibles. The marketplace will be linked to all projects on Nester. All assets will be available on our marketplace platform to support secondary sales.
- Providing the protocol for dApps on NEAR to buy and sell NFTs directly in their platform, focusing on NFTs by Architect within unlockable content such as AR, VR, Metaverse, BIM, and real-world implementation.
- Producing multiple revenues through our marketplace and platform built on top of it by supporting and developing the Metarchitect (Architect).



5.6 NesterDAO

We fully realized that the problem occurs due to centralization. Since we are focusing on selling architectural design and 3D assets, there might be happening a copyminter - minting other artists' assets without the right to do so - and plagiarism. Thus, we believe in shifting to a more decentralized and community-driven world by producing curated architectural designs or projects that build on blockchain will maintain not only the copyrights of architects but also increase architects' and artists' motivation to keep generating great works.

We envision various scenarios that would be achievable:

- (1) Curation for architectural NFT projects,
- (2) Requests for development assistance,
- (3) Placement of architectural art, architectural projects, or blockchain projects for architects for prototype review, fundraising, and listing,
- (4) Conducting an IDO,
- (5) Management through DAO of site parameters and admission through DAO to grant and funding stage, and
- (6) Selling, buying, and requests for furniture or adds-on creation

The DAOs can be applicable for serving, as an evaluation and initial funding for start-ups projects and fulfilling a function for passing the limit on the minimum investment ticket size at the stage of IDO. A professional architect who creates NFT-based 3D building projects can participate. Moreover, the users could be investors, architect clients, game developers, and NFT 3D architecture admirers that could be used for various purposes. Such as VR, metaverse, event, working, 3D building assets for games, etc.

5.7 Decentralized Governance

A Nester Community is associated with a Community Token — a special NFT that lays out the constitution of that community. A community's constitution includes the information meant to be interpreted by humans, such as rules, post guidelines, and disciplinary actions that aim to be carried out by moderators. Moreover, the information meant to be interpreted by computers, such as vote totals, must be reached for community consensus to take specific actions or amend a Community Constitution.

A community's constitution, and any amendments to it, are kept in global agreement by the Nestercity blockchain. Multiple servers may share in the hosting of a community, where each server either maintains a full redundant copy of the community data or servers share storage of the Community amongst themselves. Those participating Servers reach a consensus about the community's rules, properties, and state by referring to the Community Token on the blockchain.

In the simplest case, the Token for a Community can be wholly owned by the owner(s) who created the Community. In this case, the owner(s) of a Community would then have full rights to change the Community's rules at any time, appoint or dismiss moderators, and unilaterally transfer ownership and administration of the Community to another User. We could call this an example of an Autocratic Community.



In a more sophisticated case, the Token for a Community could have its ownership divided among many of the Community's members. In this case, appointing or dismissing moderators or changing the group rules would require a voting majority with a quorum specified by the Community's Constitution. It is an example of what we could call a Democratic Community.

There are many other possible models of decentralized community governance that can be developed to create the right balance of power, flexibility, and reactivity needed by the communities to be formed for certain functions aside from the Autocratic and Democratic examples given above. This is an area of active research.

6. Marketplace

Nestercity is developing the dApp platform to become the center of the best NFT for AR, VR, Metaverse, 3D Game Asset, and architectural design real-world implementation by architects and 3D designers at Near network. Nestercity develops an ecosystem by the user-architect creator from curatorial to Trade at the marketplace.

6.1 Value Proposition

Nestercity will work on the following:

- Focus on 3D and Architectural design NFT Trading
- Safe and fair marketplace
- Building ecosystem NFT project value by collaboration, unlockable content, and bridging real-world implementation
- Gamification NFT Marketplace
- Build the technology to enable all projects (VR, AR, Metaverse, 3D print, DED, and BIM (Building Information Modeling))
- Creators curation by NesterDAO
- Launchpad and give token grants for the NFT project by NesterDAO

6.2 Value Capture

There are many NFT markets out there, and Nestercity doesn't want to drown in a sea of similarities. Nestercity owns the following values:

LivingSpace on the blockchain

The Web3 diver needs building to locate and legitimate their existence on the metaverse, so NFT is part of digital proof of ownership. Metaverse building functions include meetings, parties, community home base, exhibitions, and concerts.

The Integrated Architect aspect of NFT Trading

The project was started as an idea of a fair and Architect NFT trading platform has taken a big step toward revolutionizing the NFT trading market altogether. Nestercity is where people trade digital art and build communities, express their minds freely, and



even have a chance to decide the rules the platform is governed by. Therefore, by Minting NFT to Nestercity, one not only puts it up for sale — one also becomes a part of a like-minded community.

Safe and Fair Marketplace

The Nestercity is open for creators to promote their works, engage with the audience and sell their artworks without significant fees. In return, the community has the space to share ideas, discuss projects, unlockable content services, and get in touch with their favorite NFT creators. The community aspect creates a safe and fair environment for the creator to get recognition for their NFTs while ensuring traders get to trade in a safe space.

Enable and interoperable technology within the marketplace

Nestercity support to enhance NFT by technological off-chain layer support for AR, VR, Metaverse, 3D Game Asset viewer, and architectural design real-world implementation to give new experience NTFs assets owner.

7. Monetization

7.1 Direct Monetization

Nestercity allows customers to collect revenue via NesterDAO and Nester Marketplace.

7.1.1 NesterDAO: Nester Architect Token

As we had mentioned above, NesterDAO focuses on the curation of architectural projects, serving, and fundraising. In order to operate, Nestercity will launch a token that is specialized for users in the NesterDAO, which we call Nester Architect Token, and named \$NEST. The token can be used in our future marketplace, which is NesterIO.

While every token in the markets contains subjectivity, the Nester Architect token is projected to be relatively high. It is due to the fact that the token itself has the exclusivity factor, in which only qualified architects can create or sell 3D design pages. The 3D design page is also divided into AR/XR/Metaverse-integrated or not. If it is integrated, it can be a page project. If it's on the contrary, it can be collectibles. Thus, not only the users can raise profits from curatorial arts but also the volatility of the token value due to the supply and demand rule. Users also will be benefited from having a majority of voting rights and collaborating on Nestercity's future projects.

7.2 Indirect Monetization

7.2.1 Nester Marketplace: NFTs Transaction

Nester Marketplace, Nestercity, is a curated marketplace specialized for architects and 3D designers. We envisage bridging and incentivizing architects to thrive in the Web3 world. As our



marketplace grows and the technology in Web 3.0 space advances, we are able to innovate and deliver more unique experiences and add verticals to the current NFTs. We are pursuing the idea of metaverse on our platform in the future. On top of that, our approach to the business focuses on the creators' economy. To support that idea, we take 5% of every transaction on our platform, including the secondary market sales.

7.2.2 Nester Marketplace: Rent Building at Metaverse

In Nestercity, the profits earned will not only be from the costs of transaction, transfer, and minting the NFTs but also from renting our buildings. Our three different collections, Nesteria, Exteria, and Nestsylum, offer three different worlds with different use of buildings, ambiance, and environmental conditions that can be adjusted according to the users. The buildings can be rented for different purposes, such as NFTs community events. Besides that, hosting or becoming an event organizer can help users to monetize their assets better.

7.2.3 Nester Marketplace: Decentralized Advertising

Nestercity is aware of the challenges of centralized advertising that might cause a lack of freedom, leading to injustice. Also, it increases the complexity and lack of transparency that will harm many and benefit a few. Thus, we aim to conduct fair advertising that is a win-win solution for all. On certain pages of the DApp, users can market their assets or collections by advertisement. Users will be charged 2-3% of the NFT sold from the collection.

7.3 Economic Flywheel

A flywheel is a collection of business forces that work together to propel Nestercity ahead. These components, arranged in the shape of a wheel, gradually gain momentum as each one is optimized and the wheel begins to turn. Each spin of the flywheel builds on previous work, multiplying the effort that Nestercity Marketplace operated.

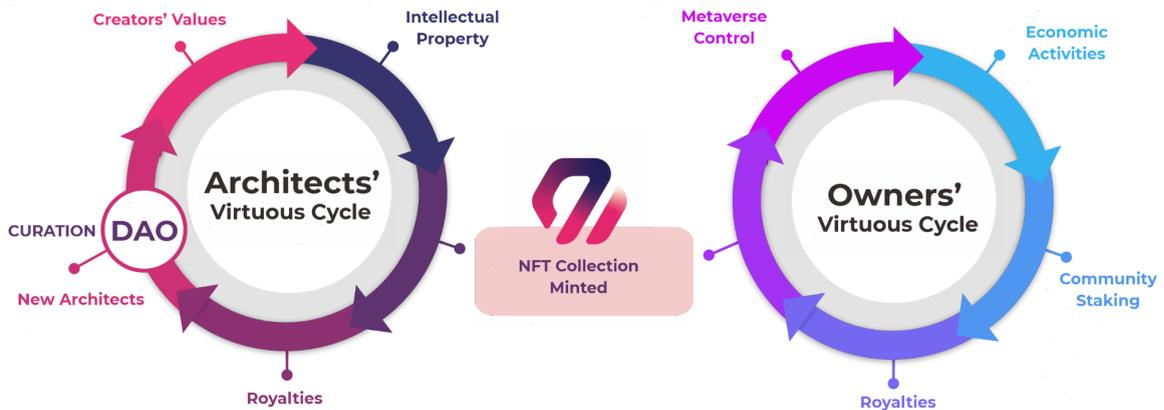


Fig 4. Economic Flywheel for Network Effects

New Architect

Register by uploading 3D files of current work, portfolio, reference to prior work, and/or educational background.

NFT Collection Minted

NFTs are used for logging into the virtual building(s) with complete build and ownership access.



Curation

Within DAO governance, each architect or 3D artist registered will be verified and ensured in terms of their credibility. The creator will be able to mint following the successful screening.

Creators' Values

Designs which are created can be multi-purposely tailored both in digital & real-world such as NFT, Games, Metarchitect, AR, BIM, and Engineering Applications

Intellectual Property

IP is forever tracked on the NFT and linked to the Architect.

NFT Collection Minted

Professionally-Architected NFTs with Metaverse & Physical Utility

Metaverse Control

NFTs are used for logging into the virtual building(s) with full build and ownership access.

Economic Activities

Owners can sell tickets to enter their virtual building(s) (for concerts, events, meetings) and attendees pay \$NEST.

Community Staking

As NFT is staked, the associated staked Metaverse can be used by the DAO for economic activities, and \$NEST will be compensated to the Owner.

Royalties

Portion of \$NEST from every economic activity including DAO, Staking Rewards Portion is allocated back to the owners who have collected the metaverse and original Architects.

8. Tech Architecture Overview

Nestercity is organized into two layers — The Nester marketplace and The Nester Technical Architecture. While each of these two layers is a network of cooperating computers that collectively constitute The Nestercity platform, each individual layer has a different function based on the blockchain base.

Nester's Technical Architecture layer (composed of Nester Substrate) is developed with the open-source Substrate blockchain platform and secures data that must be held strictly in global consensus, such as curation, services, license, order, and user.

Our technical architecture consists of four layers, the main blockchain infrastructure, the transport and generic business logic layer, and the top-level business logic layer.



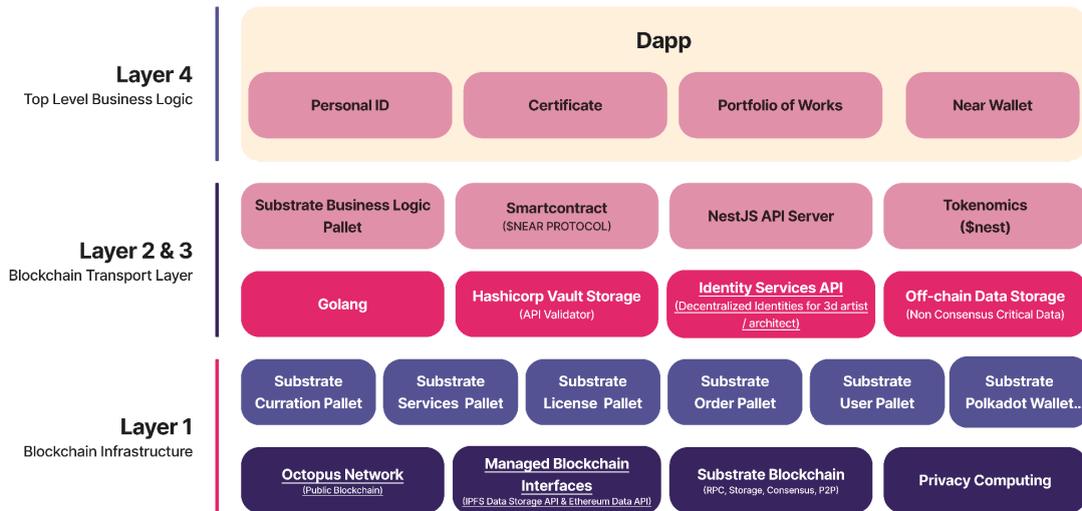


Fig 5.1 NesterDAO for Architect Screening Technical Architecture

Layer 1: The Blockchain Infrastructure

For our main blockchain infrastructure in Architecture Screening Layer, we will be using Octopus Network, Substrate, and IPFS.

Layer 2 & 3: The Transport and Generic Business Logic Layer

The second and third layer contains our transport and generic business logic. This layer is responsible for serving data from the blockchain infrastructure to the users directly.

The Substrate blockchains in the first layer are accessed through the second and third layers. Each pallet contains the base business logic for interactions with our blockchain. Thus the users will trigger this business logic from a higher level, more specifically, from the dApp itself.

Layer 4: The Top-Level Business Logic Layer

The fourth layer will be the interfaces screening connect with Near Wallet

Nester’s Market Architecture layer (composed of Nester Nodes) is developed with the open-source Substrate blockchain platform and secures data that must be held strictly in global consensus, such as ownership, asset transfer, and creating 3d on the marketplace.



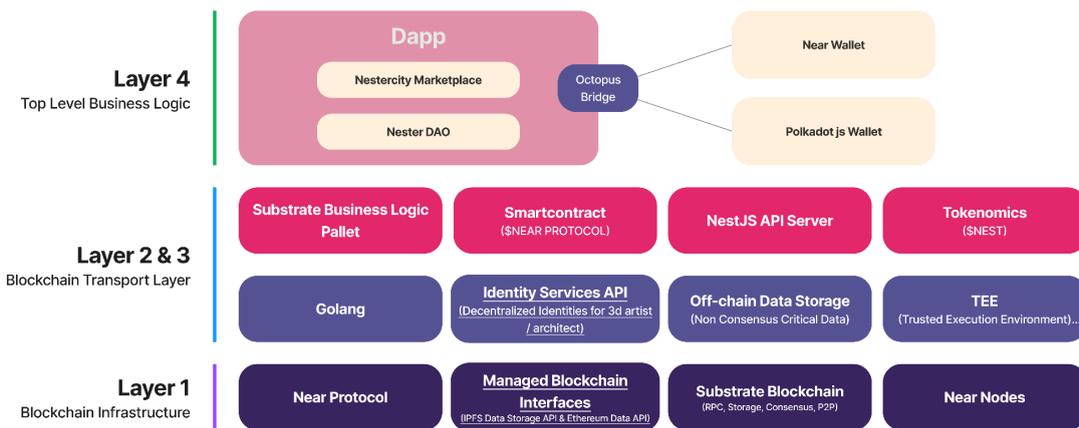


Fig 5.2 Nestercity Proposed Marketplace Architecture

Layer 1: The Blockchain Infrastructure

For our main blockchain infrastructure in Architecture Screening Layer, we will be using Octopus Network, Substrate, and IPFS.

Layer 2 & 3: The Transport and Generic Business Logic Layer

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Layer 4: The Top-Level Business Logic Layer

The fourth layer will be the dApp marketplaces and DAO. All transactions with the Nestercity will be available for Near Wallet users.

Nester Technical Architecture layer (composed of Architecture Servers) allows for scalability and data sovereignty which would not be possible in a pure-blockchain architecture.



9. Roadmap

To realize our vision, we start with projects that build strong communities, metaverse engagement with architectural design, and NFTs project collaboration. Once the target is reached, we will start decentralized applications focused on development by helping Architect to increase the creation value with DAO and the marketplace as an NFTs trade.

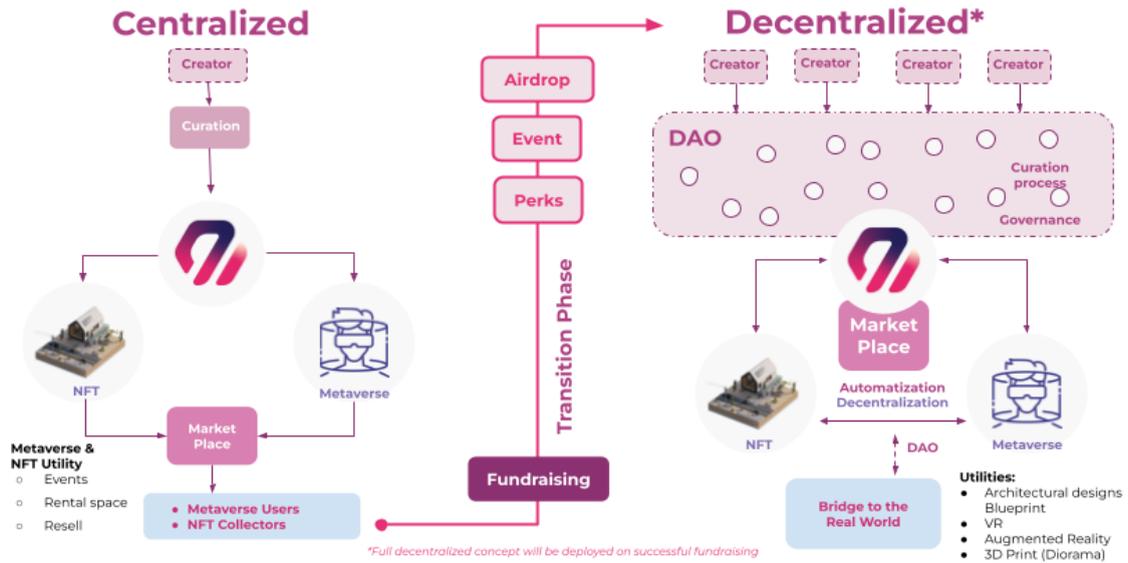


Fig 6. Roadmap centralized-decentralized flow

2022:

- March-May
 - Ideas and Innovations
 - Building community
 - NFTs planning
 - The first batch of NFT release: 50 NFTs
- June-August
 - Collaboration with Myriadcity
 - Metaverse architecture exhibition v1
 - The second batch of NFT release: 70 NFTs
- September-November
 - Open call for collaboration with artists/architects
 - Metaverse architecture exhibition v2
 - The third batch of NFT release: 90 NFTs development
- December
 - Integration with RealityChain 3D
 - Open call (2) for collaboration with artists/architects
 - The fourth batch of NFT release: 90 NFTs
 - Nester.io marketplace development



2023:

- Q1
 - Expected to have 1,000 users
 - New marketplace feature - Auction
 - First webinar for architecture students
- Q2
 - Expected to have 2,500 users
 - Furniture exhibitions in the Metaverse
 - New marketplace feature - MP4 Format
- Q3
 - Expected to have 5,000 users
 - Building design exhibition in metaverse
 - Open collaboration with artists in marketplace or media portal on NEAR Blockchain
- Q4
 - Expected to have 10,000 users
 - Collaboration for real-world exhibition
 - Open collaboration (2) with artists in marketplace or media portal on NEAR Blockchain

2024:

- Q2
 - Mobile app development
 - Bridging blockchain/cross-chain/multi-chain
 - Real-store/enterprise collaboration
- Q4
 - Creating e-magazine for architects in Nester.io
 - Real-world talk show with famous architects



10. Tokenomics

The Nestercity's token supply is \$NEST 100,000,000, and the distribution is as follows:



Fig 7. \$NEST Token Allocation

Table 2. Token Allocation Detail

Distributed For	Allocation (in %)	Descriptions
Community	35%	Distributed to the community members through various community programs.
DAO	17.5%	Allocation for Governance, curators, Launchpad and give token grants for the NFT project by NesterDAO
Team	15%	Vested over 36-month (Starting from token launch)
Marketing and Bounties	10%	marketing programs for user engagement, community acquisition, collaboration programs, and creator acquisition
Strategic Round	5%	Raised around USD 300K or \$NEST 5M for 5% of the total supply. With a fully diluted valuation of USD 6M, an initial supply valuation of USD 900K, and USD 6 with six months vesting



Initial NFT Sale	5%	Raised around USD 150K, produce 300 NFTs containing initial airdrop of \$NEST 5M after Token Generation Event (TGE) for 5% of the total supply. With a fully diluted \$NEST valuation around USD 3M, initial supply valuation of USD 300K, and USD 3 with eight months vesting
Angel Round	5%	Collected \$NEST 5,000,000 for 5% of total supply and vested in 9 months period
IDO	5%	Raised around \$NEST 5M for 5% of total supply and no vesting via Skyward Finance
Advisors	2.5%	Vested periodically (Starting from token launch)



11. Team

Core Team



Wazid Kautsar Bahri | CEO / Co-founder

Wazid has become a leader in the start-up business since 2019. He has 3+ years of experience in product development, 5+ years of experience in becoming a professional architect and contractor, and 2+ years of experience in the property industry.



M. Sulthoanuddin Akbar | CFO & CMO / Co-founder

Sulthon has led a start-up business since 2019 and has an academic background in civil engineering and construction management. He loves the idea of sustainable transportation, metaverse and blockchain technology, and public infrastructure. He has 6+ years of experience in infrastructure, construction, and sustainable transport and was active in various organizations.



Mustajir Pangestu Langgeng | VP 3D Artist

Langgeng pursued an architectural degree. He always loves the idea of designing and creating buildings. He has more than five years of experience in becoming a 3D artist and 2+ years of experience being a site architect.



Dimas Syahrul Rifa'i | Blockchain Developer

Dimas is an experienced graphic designer in the construction industry. He has strong arts and design senses and is experienced in handling social media and technology-based projects. He has become a UI/UX and full-stack developer.



Radityo Bagus R | Community Manager

Radityo has 2+ years of experience creating and collecting NFTs in various blockchains, business development in NFT collective art (*Sekudbeat*), and an entrepreneurial venture. He specializes in blockchain technology with a mix of his extroverted personality and a glimpse of his likeness through music.





Chudori M. Fahlevi | Graphic Designer/UI/UX Designer

Corry has an academic background as a civil engineer. With his unique taste in music and designs, he has more than four years of experience as a graphic designer, videographer, and motion grapher. He has become a creative director for *Puteri Indonesia Bengkulu 2020*.

Advisory Boards



Ms. Pandu Satrowardoyo (Decentricity) | Lead Advisor

Ms. Pandu is a metaverse-native with experience in the field for about 11 years. She is the CEO of DeBio Network, founder of RealityChain, initiator of Myriad.Social, founder and supervisory board of Indonesian Blockchain Association, executive director of Blocksphere, a former territory general manager in IBM, and a former Blockchain Zoo co-founder.



Jean-Daniel (Danny) Gauthier | Technical Advisor

Danny has more than 15 years of experience in IT and startups. He is a co-founder and the CEO of Myriad.Social, co-founder and advisor in Blocksphere, co-founder of Blockchain Zoo, formerly worked as general manager in Digit Media World, Debune.org, OTDocs, and former chief creative officer of Digital Billions Pte Ltd.



Gilang Bhagaskara | Technical Advisor

Gilang is an active developer, educator, and evangelist in the blockchain technology. He is the CTO of Myriad.Social, the director of Blocksphere, co-founder of Indonesian Blockchain Network, co-founder of oneMe identity, technical director of Kartoo Aplikasi Indonesia, sharepoint expert in Indosat, and a project leader of Altrovis.



Adam Ardisasmita | Technical Advisor

Adam has a significant interest in the development of the IT world. He is the CEO of Arsanesia, with more than 11 years of experience in game development and gamification, and the CEO of RealityChain, Multi Chain, Multi-Engine, and Metaverse as a service. He is also the vice president of the Indonesia Game Association and an innovator of Intel Software.





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Contact Us

Find us on Twitter and Instagram: [@Nestercity_NFT](#)

Email: admin@nestercity.com

Discord: discord.gg/G9KMvdKrhZ

Website: nester.city

Linktr: <https://linktr.ee/nestercity>