

# NeoCite



## Whitepaper

## Executive Summary

Our mission at Neocite is to empower scientists to monetize their patented products in an easy and secure way. Imagine a scenario where a dedicated biological scientist with a Ph.D. has spent over five years developing a groundbreaking phage-based product that extends the shelf life of fruits like apples and pears by 3x, naturally and without harmful chemicals. The product has been patented and well-defended before the thesis jury, but the scientist faces challenges in bringing it to market. Lack of industry connections, limited entrepreneurial experience, and insufficient funds to start a startup hinder the scientist's efforts to commercialize the product.

Moreover, there are concerns about the risk of the product formula being stolen if listed on uncredible science marketplaces. This is where Neocite comes in to support millions of scientists worldwide who are seeking to monetize their patented inventions in a secure and hassle-free manner.

The Neocite platform utilizes the power of distributed ledger technology on the Hedera Hashgraph network to enable scientists to license the rights of their patents through NFT ownership. By uploading their scientific patents to the Neocite platform, scientists can register their patents on the public ledger, providing an additional layer of security, credibility, and visibility.

We believe that Neocite will accelerate the widespread adoption of scientific innovations, thereby expediting the process of finding solutions for small and major problems across various sectors such as medicine, the environment, food production, and education. Neocite will empower scientists to bring their inventions to the market and be fairly compensated for their valuable contributions, encouraging further innovation. This will also provide educational organizations and other stakeholders a platform to discover and access the products they need to create new solutions.

Join us as we bring science to the world of web3 with Neocite, revolutionizing how scientists monetize their patents and drive meaningful change.

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## Introduction

Welcome to Neocite, the first NFT marketplace designed specifically for scientists to buy and sell science products. As a team, we recognized the challenges that scientists face in bringing their innovative products to the market. These challenges include a lack of business networks, limited funds, a focus on academia rather than entrepreneurship, and concerns about data security and fair compensation. Existing solutions, such as traditional web2 marketplaces, have not been able to fully address these issues, resulting in limited adoption by the science community and production organizations.

To overcome these challenges, the Neocite team has leveraged the power of web3 tools to create a comprehensive solution that ensures secure data management, fair compensation, and a seamless buying and selling experience for scientists and buyers alike. By integrating blockchain and web3 technologies, Neocite opens up unprecedented opportunities for scientists and organizations to accelerate problem-solving in various sectors, including medicine, environment, food production, and education.

With Neocite, scientists can list their science patents for public sale, legally and scientifically verify their patents on a global level, create an unlimited number of NFTs for every product listing, register science products on a public ledger network, and utilize smart contracts to add conditions to the NFT. This all-in-one platform streamlines the entire lifecycle of an NFT, from creation to minting, selling, distribution, and exclusive access for buyers.

Neocite aims to remove barriers and unlock the full potential of web3 for scientists, providing them with a secure and trusted marketplace to monetize their patented products while ensuring fair compensation and data security. We believe that Neocite will accelerate scientific adoption, foster innovation, and facilitate the development of solutions for pressing global challenges.

**Let's bring science to web3 with Neocite.**

## Purpose & industry problems

At Neocite, our purpose is to empower scientists to monetize their patents and create success stories by providing a safe environment for scientists and organizations to connect. We believe that our platform will revolutionize the way scientific products are marketed and sold, addressing key industry problems that hinder the visibility, commercialization, funding, and data security of scientific innovations.

### **Product Visibility:**

We understand that visibility is crucial for scientists to attract potential buyers, sponsors, and investors. However, we have observed that many scientists around the world struggle to market their valuable products and give them the right visibility in the market. Neocite addresses this issue by maximizing the visibility of patented scientific products that can solve industry-specific problems. Through our dynamic marketing strategy, we optimize targeting based on the product supply in our marketplace, specifically reaching out to organizations that are actively seeking similar solutions. We also conduct more generic marketing campaigns to engage key decision-makers in organizations with demand potential, ensuring that patented products gain the visibility they deserve.

### **From Academic to Business:**

Most scientific products are originally created for academic purposes and lack visibility outside of academic archives. Neocite aims to bridge the gap between academia and business by providing a platform for scientists to showcase their patented products and make them discoverable to a wider audience. By bringing scientific innovations to the marketplace, Neocite enables scientists to transition from academia to business and unlock the commercial potential of their products.

### **Funding:**

Securing funding is a common challenge for scientists looking to commercialize and scale their products. Neocite offers scientists the opportunity to make their products discoverable to potential investors through NFTs, opening up new avenues for funding and business opportunities. By connecting scientists with investors on our platform, Neocite facilitates the funding process and helps accelerate the path to market for innovative scientific products.

**Data Security:**

Data security is a critical concern for scientists, as unauthorized copying and plagiarism can undermine the value of their products. Neocite leverages blockchain technology to provide a high level of data authenticity. Every patented product listed on Neocite is registered to its owner on an immutable ledger that is non-fungible. Furthermore, Neocite ensures that the product data is protected from copying or screen capturing. Access to the product data is exclusively given to the NFT owner, ensuring that scientists and organizations can trade value in a trusted and secure environment. By safeguarding the integrity and security of scientific data, Neocite fosters a conducive environment for the growth of science and innovation.

## The purpose of utilizing NFT

Leveraging Non-fungible Tokens (NFTs) offers several benefits and solutions to current industry problems. NFTs offer a unique and secure way to represent and transfer ownership of intellectual property. By leveraging blockchain technology, NFTs provide a trusted and decentralized platform that can help unlock new opportunities for monetization and create a more efficient marketplace for intellectual property.

**Data Authenticity:** NFTs provide a unique digital signature that serves as proof of ownership and authenticity of intellectual property. This helps prevent unauthorized copying or plagiarism, ensuring that the value of the intellectual property is preserved.

**Immutable record-keeping:** NFTs utilize blockchain technology, which creates an immutable record of all transactions related to intellectual property. This helps establish a clear ownership history and provides an auditable trail of all transfers and sales.

**Fractional ownership:** NFTs enable fractional ownership of intellectual property, which can help unlock new opportunities for monetization. Owners of NFTs can sell fractional shares of the intellectual property, providing a way to diversify investments and share the risk.

**Secure transactions:** NFTs enable secure transactions by providing a trusted and decentralized platform for buying, selling, and trading intellectual property. This helps ensure that transactions are executed in a safe and secure manner.

**Standardization:** NFTs provide a standardized way of representing intellectual property, which can help simplify the licensing and transfer process. This can reduce the time and costs associated with transferring ownership of intellectual property.

**NFT-based access mechanism:** To ensure maximum security of users' intellectual property data, Neocite implements an NFT-based access mechanism. This mechanism restricts access to product data to only those who possess an NFT of that particular product. This provides a high level of security by ensuring that only authorized parties can access the product data.

## User journeys

The Neocite platform serves two types of users: sellers, who are scientists or creators with patented products looking to license them through selling NFTs, and buyers, who purchase NFTs from sellers to gain access to product data.

### **Seller's User Journey:**

1. Land on the Neocite homepage.
2. Click the "Create" button.
3. Select a wallet to connect or create a wallet account.
4. Land on the creator profile page.
5. Click on "Create a new product".
6. Follow the upload and product validation process.
7. Choose the number of NFTs and set the price.
8. Receive an email upon finishing the verification process to confirm the successful submission.
9. Receive an email of request approval/decline.
10. Click on the link in the email to view the listing or fix listing errors.
11. Receive an email when a product is sold.
12. Receive the sale amount in the wallet.

**Buyer's User Journey:**

1. Land on the Neocite homepage.
2. Explore the Neocite marketplace.
3. Use filters to get more relevant results.
4. Click on the relevant product.
5. Explore the product information.
6. Click on the creator profile.
7. Explore the creator's information.
8. Go back to the product.
9. Click on the "Buy" button.
10. Fill out necessary information like name and email.
11. Select a wallet to connect or create a wallet account.
12. Complete the transaction successfully.
13. Receive an email with the link to access the product paper.
14. Access is given after verifying NFT ownership.

By improving the user journeys for sellers and buyers on the Neocite NFT marketplace, we aim to provide a seamless and user-friendly experience for both parties, enabling scientists and creators to license their products through NFTs and buyers to gain access to valuable product data.

# User profile

## 06.1 Creator profile

To list a patented product on the Neocite marketplace, users will be required to create a creator profile. The profile will include basic information such as the user's name, email, and country of origin. It will also include academic information such as titles and achievements related to the listed product.

The creator profile will be viewable only by buyers who own NFTs from that creator, ensuring privacy and security. However, some academic data related to the listed product may be viewable by all users, with the creator's identity remaining anonymous.

By requiring a creator profile, Neocite will be able to ensure that all products listed on the marketplace are genuine and provide buyers with relevant information about the creator's academic background and achievements. The privacy and security measures will also help protect the intellectual property rights of creators and provide them with a safe and trusted platform to sell their innovative products.

## 06.2 Buyer profile

The buyer profile only includes basic user data such as name and email.

## Product validation

Neocite is an NFT-based platform with a product validation process designed to ensure that all products and patents listed on the platform are scientifically validated and of high quality. The process includes the following steps:

**Step 1:** Submit Product Details The seller must provide detailed information about the product or patent they wish to sell. This includes a detailed description of the product, its uses, and any scientific studies or data that support its effectiveness.

**Step 2:** Scientific Review Once the product details are submitted, the NeoCite team of scientific experts reviews the information provided to determine the scientific validity of the product. The team may request additional information or studies from the seller to support their claims.

**Step 3:** Verification After the scientific review, the NeoCite team verifies the product's authenticity and ownership. This includes ensuring that the product is not a counterfeit or a stolen patent.

**Step 4:** Once the product is validated and verified, it is listed on the NeoCite marketplace for sale with a unique NFT set at a fair price

### Validation on NeoCite also offers benefits to sellers, including:

**Credibility:** The validation process provides scientific credibility to the product, making it more attractive to potential buyers.

**Quality Control:** The validation process ensures that all products listed on NeoCite are of high quality, which enhances the platform's reputation as a trusted marketplace for scientists.

**Market Access:** By listing their products on NeoCite, sellers gain access to a global market of scientists and researchers who are looking for innovative products and patents.

As the first NFT marketplace designed specifically for scientists to buy and sell science products, NeoCite via this process is committed to providing a trusted platform for the scientific community.

**Revenue model**

The revenue model of Neocite is based on two sources: minting fees and commission fees on NFT sales. When a scientist or creator wants to mint an NFT on the platform, they pay a fee for the service. This fee is a flat fee for each NFT mint. The platform then takes a commission on each NFT sale, which is 30% of the final sale price. This means that the platform makes money both when users mint new NFTs and when those NFTs are sold on the marketplace. The success of an NFT marketplace's revenue model depends on the volume of NFTs sold and the popularity of the platform among creators, buyers, and investors.

# NFT Minting, Marketplace, & Blockchain Technology Integration

## **08.1 Hybrid Chain Model and Hedera Network Integration:**

NeoCite project is built on the Hedera network, leveraging its fast and secure architecture with low gas fees for an enhanced user experience. This hybrid chain model expertly combines on-chain and off-chain elements, ensuring a seamless user experience and robust security.

## **08.2 Authentication and User Management:**

The platform incorporates authentication and user management features, enabling users to securely create wallets, wallet connect and manage their profiles.

## **08.3 Smart Contracts and NFTs:**

By integrating smart contracts, NeoCite represents each academic paper as a unique NFT, managing ownership and access control. On-chain components handle payments, and NFTs, and ensure a secure structure, while off-chain components are used for storing large PDF files and user profiles. This off-chain approach enables efficient and secure retrieval of profiles and associated data when a wallet is connected.

## **08.4 Multi-party NFT Ownership and Payment Processing:**

A multi-party NFT ownership model is employed, allowing users to pay the citation fee and gain access to view academic papers seamlessly. Payment processing is facilitated through a cryptocurrency gateway, supporting currencies like HBAR, and the smart contract enforces access rules based on payment status.

## **08.5 Search and Discovery Features:**

The platform boasts advanced search and discovery features, enabling users to find papers based on various criteria and receive personalized recommendations. NeoCite maintains strict access control and security measures to prevent unauthorized access, copying, or sharing of academic content while adhering to relevant intellectual property, privacy, and data protection regulations.

## **08.6 Analytics and Reporting Tools:**

Comprehensive analytics and reporting tools are provided, allowing users to track citations, user behavior, and revenue streams, with data visualization and export options available. NeoCite is designed for optimal performance and scalability, handling large volumes of users, papers, and transactions, while ensuring fault tolerance and resilience against downtime or data loss.

## **08.7 User Interface and User Experience:**

The platform offers an intuitive user interface and user experience, complete with clear instructions, feedback, and extensive support and documentation for users and developers. By leveraging the strengths of both on-chain and off-chain technologies, as well as the advantages of the Hedera network, NeoCite delivers a secure, reliable, and high-performance platform for managing academic papers and fostering collaboration.

# Roadmap

By following this roadmap, Neocite will be well-positioned to achieve its audacious vision of creating a trusted, secure, and empowered web3 marketplace for scientists to bring their innovative products to market..

## **Q4 2023 – Launch Neocite for Life Sciences Products**

Neocite will launch a secure and trusted web3 marketplace where scientists can list, sell and buy products related to life sciences. These may include genetics, microbiology, biochemistry, and bioinformatics, among others.

## **Q1 2024 – Expand to Other Science Products**

Neocite will open its marketplace to other branches of science such as chemistry, physics, mathematics, and computer science, among others. Scientists from these fields will have the opportunity to list and sell their innovative products to a wider audience.

## **Q3 2024 – Partner with Intellectual Property Organizations**

Neocite will partner with a reputable intellectual property organization to provide a special portal on the Neocite website where creators can easily patent their products. This will help safeguard intellectual property rights and ensure that products are properly protected.

## **Q1 2025 – Partner with Universities**

Neocite will partner with universities to provide researchers and students with free access to list their products on the Neocite marketplace. This will help promote innovation and allow new and emerging products to be discovered and brought to market.

## **Q1 2026 – Partner with Intellectual Property Organizations**

Neocite will partner with a reputable intellectual property organization to provide a special portal on the Neocite website where creators can easily patent their products. This will help safeguard intellectual property rights and ensure that products are properly protected.

## Team Neocite

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CEO, Co-Founder  
Demand generation manager at Hedera  
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[Linkedin Profile](#)**Ismahan Akremi**

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PhD student in Biological Sciences  
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CSO, Co-Founder  
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CMO  
Creative FrontEnd Developer,  
Ui/Ux designer  
8 years of experience in web development

[Linkedin Profile](#)

# Legal information

## 11.1 Jurisdiction

The Neocite NFT marketplace is founded in Belgium and is subject to Belgian law. By using the platform, users agree to submit to the jurisdiction of the Belgian courts in any disputes that may arise.

Any legal disputes related to the use of the Neocite NFT marketplace will be resolved under Belgian law, without regard to conflicts of law principles. In the event of any conflicts or inconsistencies between this jurisdiction information and other legal disclaimers on the platform, this jurisdiction information will prevail.

Neocite reserves the right to modify, amend, or update this jurisdiction information at any time without prior notice. Users are advised to check this information periodically to ensure compliance with the latest updates and changes.

The Neocite NFT marketplace is intended for use by users in all jurisdictions, subject to the user's compliance with all applicable laws, regulations, and intellectual property rights. However, Neocite does not guarantee that the platform is appropriate or available for use in all locations, and users are solely responsible for complying with their local laws and regulations.

By using the Neocite NFT marketplace, users acknowledge and agree to the terms and conditions of this jurisdiction information.

## **11.2 Legal disclaimer**

DISCLAIMER: The Neocite NFT marketplace is provided for informational purposes only. The content on this platform is not intended to provide legal, financial, or investment advice. Users should always consult their own professional advisors before making any investment decisions.

The Neocite NFT marketplace does not endorse, recommend, or guarantee the accuracy, completeness, or timeliness of any information or content on this platform. The platform is provided on an "as-is" and "as-available" basis, and users access the platform at their own risk.

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Users of the Neocite NFT marketplace are solely responsible for complying with all applicable laws, regulations, and intellectual property rights. Neocite is not responsible for any violations of third-party rights resulting from the use of the platform.

By using the Neocite NFT marketplace, users acknowledge and agree to the terms and conditions of this disclaimer.