

ECOBASSED

ECOBASED.AI

White Paper

Buy Back The Planet

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1. Introducing ECOBASED.AI

ECOBASED.AI (ECOBASED) is a Real-World Asset (RWA) Tokenization-as-a-Service platform and digital asset marketplace focused on supporting Regenerative Finance (ReFi) projects by connecting them with impact investors and institutions around the world who are looking for an easy way to meet their sustainability goals and support responsible resource management.

By supporting landowners with tokenization services, ECOBASED unlocks the intrinsic value of natural and sustainably managed ecosystems. This value has previously been difficult to calculate and monetize due to the nature of the current commodity-based global economy, which only values land for the resources that can be extracted from it and not for the life-sustaining services that it offers in its natural state.

ECOBASED offers a new paradigm for those who want to make significant and reliable ROI while supporting projects that are helping preserve the natural world and the ecosystems that sustain all life on Earth. ECOBASED aligns interests between a wide variety of stakeholders, including future generations, to ensure that prosperity does not need to come at the expense of our ecological security.

The ECOBASED platform harnesses the power of natural capital assets and ecosystems to create a regenerative economy by leveraging various interconnected technologies, including Artificial Intelligence (AI), Digital measurement, reporting, and verification (dMRV), and Blockchain technology (on-chain assets and data) to create a comprehensive Web3 ecosystem that empowers humanity to **buy back the planet**.

2. Current Problems and Solutions

The global resource extraction economy is driven by destructive industries that contribute to pollution, deforestation, soil degradation, biodiversity loss, and displacement of local populations. Large corporations are making astronomical profits by destroying the very foundations of life that we all rely on to survive. This is largely because the value of functional ecosystems has been hard to quantify or monetize since it is not something that can be easily sold for profit.

Landowners who want to tap into the value of their natural assets find it difficult to navigate the maze of legal and technical requirements to effectively capitalize on the value of functional ecosystems via programs such as carbon credits, biodiversity, and water quality preservation.

For example, when a logging company offers a large sum for rights to clearcut a forest, the landowner may see it as the only option for generating revenue from their assets. With ECOBASED, they can now explore alternative monetization strategies that unlock the long-term value of Ecosystem Services without destroying the underlying assets.

Major global institutions have mandates to meet certain sustainability goals and often look to things like carbon offsets and biodiversity credits to help them do so. Unfortunately, these credits are not always representative of real-world preservation and sustainable stewardship. Many carbon credit platforms are nothing more than greenwashing schemes which offer no

tangible benefits to the natural environment. This erodes confidence in the value of the carbon credit system and prevents wider adoption leading to ongoing degradation of the natural world.

ECOBASED offers a comprehensive solution to address these challenges by providing an easy way to tokenize ecological assets and connect institutional and retail impact investors with unique opportunities to support sustainable ReFi initiatives.

By leveraging asset tokenization, ECOBASED enables the creation and issuance of marketable Proof of Impact Certificates and Green Bonds that meet ESG and UN SDG criteria and are backed by verifiable data. This unlocks the value of functional ecosystems and offers alternatives to destructive business practices that generate profits at the expense of the natural world and everyone in it.

By using the latest technological advances in data collection and transparent reporting, ECOBASED creates digitally tokenized Natural Capital Assets or “Eco Assets,” which are verifiably tied to real-world activities that are helping to preserve and regenerate ecological systems.

3. Natural Capital and Ecosystem Services

Natural capital assets, including water, air, geology, healthy soil, living organisms, and biodiversity, provide essential life support to the planet and are part of the world's stock of natural resources.

Natural capital comprises both ecosystem assets, such as fresh water, and natural resources, such as fossil fuel deposits. It encompasses the planet's stocks of water, land, air, and renewable and non-renewable resources. The structure and diversity of habitats and ecosystems are important components of natural capital, as they ensure the continuous supply of services from these assets.

Natural capital is considered an economic asset that supports human well-being and is vital for long-term sustainability. It is different from other sources of capital because it is not produced but derived from nature itself. Recognizing and valuing natural capital is important for making informed decisions about resource management and sustainable development.

Some natural capital assets, known as Ecosystem Services, provide people with free goods and services that are essential for our economy and society. Natural Capital provides Ecosystem Services to humans such as:

- **Carbon Sequestration**
- **Soil Regeneration**
- **Biodiversity**
- **Breathable Air**
- **Water Filtration**
- **Erosion Control**
- **Crop Pollination**

Ecosystem services are the benefits of nature to households, communities, and economies, or more simply, the good things nature does. **Payments for Ecosystem Services (PES)** are incentives offered to farmers or landowners in exchange for managing their land to provide ecological service. These programs promote the conservation and regeneration of natural resources in the marketplace.

There are 24 specific ecosystem services identified and assessed by the Millennium Ecosystem Assessment, a 2005 UN-sponsored report designed to assess the state of the world's ecosystems. These can be roughly divided into provisioning services, regulating services, supporting services, and cultural services.

Payments for Ecosystem Services is the name given to a variety of arrangements through which the beneficiaries of environmental services reward those whose lands provide these services with subsidies or market payments. PES policies compensate individuals or communities for undertaking actions that increase the provision of ecosystem services.

ECOBASED capitalizes on PES by making regeneration profitable. It creates a circular economy that continually drives funding back into natural capital assets and rewards participation through profit sharing. The platform aligns with the UN's Sustainable Development Goals (SDGs) by verifying proof-of-impact, enabling easy reporting, establishing guidelines for green bond standards, promoting investor stewardship codes, and providing incentives for investing in renewable energy and social impact projects.

4. How It Works

ECOBASED has been carefully designed to unlock and distribute value and governance rights to the community of token holders in a way that is simple and secure. Value from various revenue streams will accrue to the ECOBASED Treasury, which will be managed by the ECOBASED DAO, a Decentralized Autonomous Organization consisting of those who choose to stake ECO tokens for extended periods of time.

Here is a look at some of the ways that various people can benefit from joining ECOBASED.

- **Miguel** owns a 40-acre farm in Brazil. He needs money to pay for his daughter's university education but he doesn't want to sell his ancestral land or see it deforested by logging companies. Miguel can apply for tokenization with ECOBASED and, if accepted, will be supported in the process of legally transferring the land to a holding company and tokenizing it along with the various ecosystem services that the land provides. He can then sell some or all of the tokens, which will provide token holders with rights to future revenue streams from carbon credits, biodiversity credits, and the sale of organic produce from the farm.
- **Paula** is a web3 enthusiast and impact investor who wants to earn a reliable ROI while supporting regenerative and sustainable ecology. She can buy tokens representing shares of Miguel's farm and rights to future revenue from the sale of crops as well as carbon and biodiversity credits generated by the rainforest on Miguel's land. By simply holding the tokens in her web3 wallet, she will receive regular airdrops of payments in

the form of stablecoins such as USDC. She can collect and trade these digital assets at any time in the ECOBASED Marketplace or other trading platforms.

- **Niklas** works for a large corporation that has obligations to meet certain sustainability goals. He needs an easy way to secure carbon offset credits that can meet these requirements and showcase the company's commitment to ecological sustainability and social responsibility. Niklas can go to ECOBASED and buy tokens that are backed by carbon credits which can be publicly verified on the Dashboard with all data being tracked on the blockchain. The token can be designed as an NFT with unique artwork and other details embedded in the metadata. This NFT can be displayed digitally in the company's HQ so everyone can see that they are doing their part to save the planet.
- **Beverly** is an eco-conscious activist who wants to be part of the solution and help preserve the world's ecosystems for future generations. She knows that many companies use 'Eco-friendly' marketing to make themselves look good without having any real impact. By staking ECO tokens, she can take part in the community governance of ECOBASED. She can submit, review, and vote on proposals for tokenization to help ensure that only those with significant positive impacts are selected for listing on ECOBASED. Proposals can be discussed and debated in a public forum where token holders can help select projects that are both profitable and environmentally beneficial.

5. Technology Stack

ECOBASED leverages a combination of advanced technologies, including AI, blockchain, oracles, and Digital Measurement, Reporting, and Verification (dMRV) to verify asset data and value.

Artificial Intelligence (AI)

By utilizing AI, ECOBASED improves scalability and reduces the time and cost associated with monitoring, reporting, and verifying carbon and eco credits, making the carbon and eco credit market a more efficient and cost-effective option for businesses and individuals.

The combination of AI models and the security of blockchains can help reduce attack vectors and strengthen the security of AI applications. This allows organizations to leverage the full potential of AI while maintaining a high standard of security enforced by cryptographic guarantees.

By facilitating a transparent record of data, blockchains enable AI models to have a clear framework for their operations. This allows for the analysis of audit trails on the decision-making patterns of algorithms and the use of an immutable data ledger to reveal the data on which the models rely. This contributes to the integrity of the recommendations generated by the models.

Blockchain Cryptography

ECOBASED incorporates blockchain technology in several ways to ensure reliable data transparency, verify ownership of assets, and incentivize participation.

ReFi NFTs, such as Proof-of-Impact Certificates and Green Bonds, are the simplest way to prove that ESG and UN SDG criteria have been met. These NFTs are transparent, publicly viewable, and easy to audit. These can be traded on the ECOBASED Marketplace and may include:

- Eco credit NFTs (dynamic biodiversity, carbon, and water tokens)
- Impact asset NFTs (bonds, equity, property, climate data)
- ReFi tokens and other digital eco-assets.

The ECOBASED platform is powered by the \$ECO Token, which provides security to the network by empowering the community with exclusive access, incentives, and governing rights to ensure the long-term growth and sustainability of ECOBASED.

Oracles

The ECOBASED oracle network is integrated with AI and provides smart contracts with a reliable way to connect to any external API and leverage secure off-chain computations. This ensures that the data fed to blockchain-based smart contracts is accurate and trustworthy. The integration of AI in oracles helps enhance security, ensure reliable data connections, and leverage transparent data frameworks to support the integrity of downstream applications in the blockchain ecosystem.

Digital Measurement, Reporting, and Verification (dMRV)

dMRV is a blockchain-based system that provides a transparent and reliable way to track real-time conservation, reforestation, and regeneration efforts by facilitating the creation and verification of dynamic tokenized environmental data including carbon and eco credits. AI (Artificial Intelligence) is used in dMRV to analyze large amounts of data, identify trends and patterns, and provide accurate and reliable data to increase transparency and reduce the risk of fraudulent activity.

In addition, dMRV technology can be used for due diligence and internal risk management for project developers and corporations. By providing accurate and reliable data, dMRV technology can help identify potential risks and areas that need improvement, reducing errors and improving the overall effectiveness of carbon markets.

6. Platform Features

The ECOBASED Platform includes several unique features that synergize to create a comprehensive Web3 ecosystem.

Tokenization-as-a-Service

Owners of real-world assets (RWAs) such as land or businesses can use the ECOBASED platform to easily convert them into digital assets through the process of tokenization. This is done within a legal and technical framework whereby the underlying assets are owned by a holding company with the sole purpose of owning these assets and issuing tokens.

Blockchain-based digital assets are then issued which represent fractional ownership of the asset and/or potential rights to revenue streams derived from the assets.

AI Regenerative Value Estimator

ECOBASED is building a proprietary AI algorithm to generate accurate valuations of real-world assets in the digital layer. The AI Regenerative Value Estimator can take a vast array of data inputs to accurately assess and estimate the value of a specific real-world ecological asset to provide a full spectrum valuation. This function will eventually be available with a subscription service and will be an integral part of the underlying foundation of the ECOBASED.AI platform.

Data fields include:

- Satellite imagery for climate data, carbon sequestration potential, solar exposure, foliage growth, biodiversity score, water and moisture content
- Ground sensors (mobile app) that use AI to record, verify, and upload climate and asset data
- AI price oracles for real estate/commodity pricing
- Mineral rights, water rights, etc. (developed countries have available data)
- Natural Capital and Payments for Ecosystem Services
- Historic and projected business revenue
- Regenerative business data (value difference in switching to regenerative actions)
- Eco-credit tokenization value potential

ReFi Market Place

Impact investors who wish to support regenerative finance (ReFi) projects can buy, sell, and trade digital assets on the ECOBASED Marketplace and earn reliable, sustainable yields from the ecosystem services that the assets provide.

Institutions that need an easy and secure way to meet sustainability goals can purchase carbon credits and other digital eco-assets and see them all on a public dashboard that will showcase their commitment to ecological preservation.

Intuitive Dashboard

The ECOBASED Dashboard makes it easy for anyone to verify not only the ownership and chain of custody for digital assets but also the actual real-world impact of each token, which is measured by dMRV, assessed by AI, and secured on an immutable public blockchain. This makes it easy to track investments, revenues, and impacts of ReFi investments.

\$ECO Token

\$ECO is used to distribute value and align incentives between stakeholders. Token holders can enjoy exclusive early access to new tokens and discounts on digital assets from the ECOBASED platform. Holders of \$ECO can also vote on which projects are approved for tokenization based on the current status and potential profitability of the underlying asset as well as the ecological impact and sustainability of the project or underlying asset. An aggressive

program of deflationary mechanics will periodically burn \$ECO tokens causing the total supply to be reduced over time.

7. Business Model

The ECOBASED business model includes multiple streams of revenue.

- \$ECO token management (LP + Trading Fees)
- Asset Tokenization/Listing
- Marketplace Transactions
- Eco-credit creation fee
- Payments for Ecosystem Services
- Value Appreciation of Treasury

As a community-focused Web3 company, ECOBASED is committed to sharing the rights, responsibilities, and revenues of the platform with the community of \$ECO token holders.

8. \$ECO Token Utilities

\$ECO is the hyper-deflationary utility and governance token that powers the ECOBASED platform. It is designed to capture maximum value by offering several important benefits for holders. \$ECO is backed by the value of the ECOBASED treasury, which is projected to increase over time while the total supply of tokens is reduced.

\$ECO has several core utilities and unique mechanics designed to support long-term growth:

- **Treasury Ownership:** \$ECO tokens represent shared ownership in the ECOBASED Treasury, a basket of digital assets including real estate, digital assets, and fiat. All platform fees and revenue will accrue to the treasury which is managed by the DAO.
- **Exclusive Access:** \$ECO token stakers get early access to new projects that tokenize with ECOBASED. The first project is already locked in with several more in the pipeline.
- **Marketplace:** \$ECO tokens can be redeemed (burned) for digital assets from the Treasury via the ECOBASED Marketplace.
- **Platform Discounts:** All Tokenization, Listing, and Marketplace fees paid in \$ECO will automatically receive a 20% discount.
- **Buy-Backs:** The \$ECO token is supported by an aggressive buy-back-and-burn program. 50% of all net proceeds each quarter will be used to buy back \$ECO. This way, simply holding \$ECO over time can confer the benefits of ownership.
- **Deflationary:** When \$ECO is used to pay fees or bought back with platform revenue, 50% will be immediately burned to reduce supply and the rest will go to the staking pool.

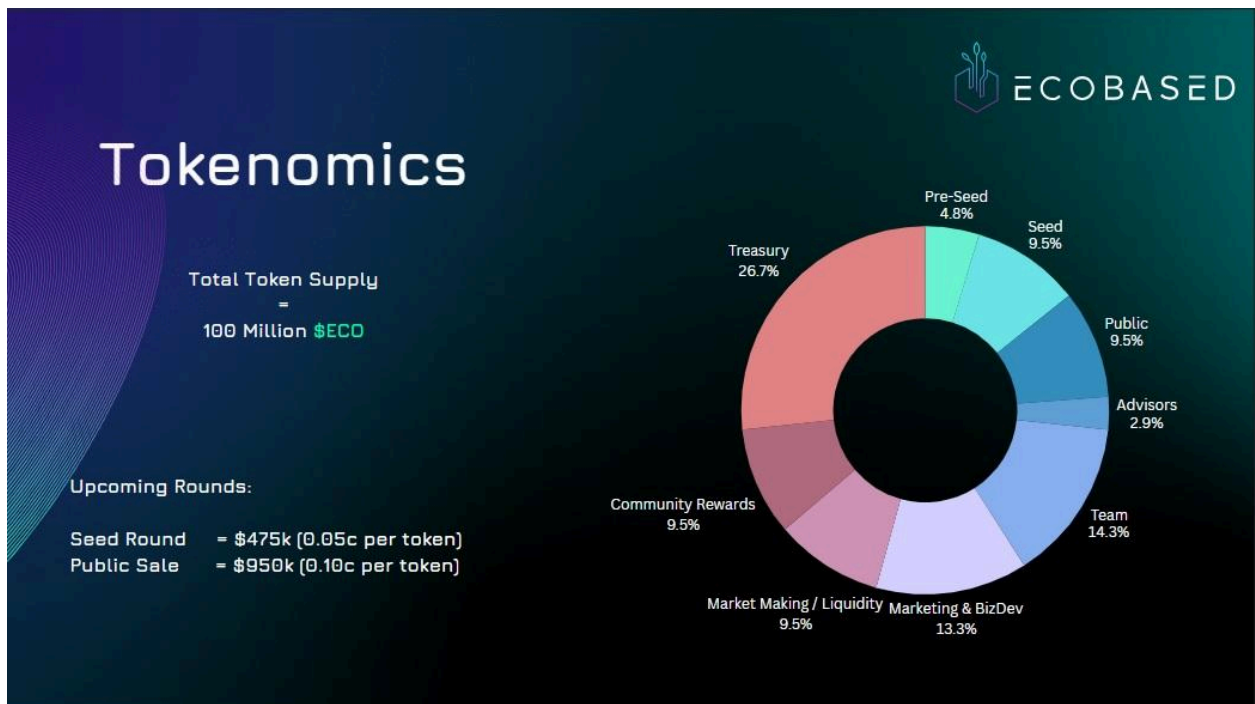
When \$ECO is redeemed directly for assets from the Treasury, 100% of these tokens will be burned. Additional ad hoc burn events can be proposed and voted on by the DAO.

- **Staking:** Staking \$ECO will unlock several benefits including:
 - o DAO voting rights
 - o Early access to newly tokenized assets
 - o Rewards earned in \$ECO (25% of net proceeds)
- **DAO Governance:** \$ECO stakers can vote on treasury management and business proposals including:
 - o Adjustments to fees
 - o Revenue distribution
 - o Asset acquisitions/liquidations
 - o New tokenization and listing partners
 - o Ecosystem improvements

ECOBASED aims for progressive decentralization. Critical decisions will initially be made by the DAO and executed by the team following industry best practices for security and transparency. Token mechanics will be gradually automated and migrated on-chain via thoroughly audited smart contracts as the platform evolves.

9. Tokenomics

The initial total supply of \$ECO is 100,000,000 tokens. No new tokens will ever be minted. The total supply is projected to be reduced over time as more tokens are burned.



10. Roadmap



11. Conclusion

The ECOBASED platform revolutionizes the field of Regenerative Finance and unlocks the fundamental value of functional ecosystems by combining advanced technologies with decentralized governance.

Through its RWA tokenization service and digital asset marketplace, ECOBASED enables democratized funding of regenerative projects and empowers impact investing by leveraging natural capital assets and ecosystem services to create an economic flywheel effect that can continue to grow and scale over time with guidance from the community to support both ecological and economic sustainability.

By combining cutting-edge technology with deflationary tokenomics underpinned by real-world value, the \$ECO token reduces friction and aligns incentives between landowners, environmentalists, global institutions, and retail investors. ECOBASED is establishing itself as a key player in the emerging Web3 impact economy.