



The Path Towards a Better Future
through the Elrond Blockchain

MAIARA SPECIES

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**One Planet.
One Network.
One Mission.**

"No one saves us but ourselves. No one can and no one may. We ourselves must walk the path."

- Mahatma Gandhi



INTRO- DUCTION

Since the beginning of the Industrial Revolution, the Earth's temperature has increased at an alarming rate. Fossil fuels are the main culprit, and our dependence on them has contributed to a dramatic increase in greenhouse gasses and carbon dioxide in the atmosphere. While fossil fuels have been a key resource for manufacturing and transportation, they also generate harmful byproducts that will likely affect humankind's overall health and wellbeing in the very near future. According to the U.S. National Aeronautics and Space Administration (NASA), the way we utilise fossil fuels as an energy source will lead to catastrophic consequences.



To put this in perspective, if we scale down Earth's age from 4.6 billion years old to 46 years old, humans have been on the planet for a total of 4 hours. The Industrial Revolution began 1 minute ago. In that time, we have destroyed more than 50% of the world's forests. This isn't sustainable.

We're already seeing the impact of climate change, as wildfires, drought, and heatwaves are increasing in frequency. By 2100, it's anticipated that extremely hot days will take place every two or three years, unless we take steps now to reduce our use of fossil fuels as an energy source.

The risk of a catastrophic

extinction increases exponentially with every action that humans take to further harm the environment. Humans are more vulnerable to self-destruction than natural disasters. In addition, these environmental changes also increase the prevalence of new viral strains and infectious diseases. Humanity's negative influence on the environment is deteriorating our planet, which should be cause for widespread concern.

Blockchain technology represents a promising tool to tackle environmental issues and promote a greener future. To that end, we've launched MaiarSpecies in collaboration with the highly sustainable Elrond blockchain. The goal is to create a collection of NFTs for investment, with the eventual goal of encouraging collections and creating play-to-earn and free-to-play platforms. This, in turn, will help fund our efforts to protect our planet and humanity from extinction.

We often take the promise of our future for granted, but continuing down our current path will threaten that possibility. Yesterday is gone and tomorrow is not guaranteed, so we must use the present moment to take action. Our future depends on it.



The Challenges

Threats to Humanity

Climate change is already having a negative impact on humans, as access to clean air, clean water, nutritious food and safe places to live are under threat. The rise in the Earth's temperature has increased the number of severe weather events and food system disruptions.

According to the United States' National Oceanic and Atmospheric Administration (NOAA), storms that develop in the North Atlantic Ocean have increased in strength, frequency and length since the early 1980s. Additionally, NASA predicts that by the mid-2030s, storm surges and high tides could combine with the rise of sea levels and land subsidence to increase dangerous flooding in many locations.

The warmer the planet becomes, the higher the likelihood of the following occurrences:

- ✗ Increase in zoonoses (infectious diseases that jump from non-human animals to humans)
- ✗ Mental health difficulties
- ✗ Higher mortality rates
- ✗ Lower birthrates, higher numbers of pre-term deliveries and stillbirths
- ✗ Diminished economic security
- ✗ Deterioration of educational systems
- ✗ Reduction in social support systems and access to health care

Threats to the Planet

Research from the United Nations (UN) reports that 75% of the terrestrial ecosystem and 66% of the marine environment have been impacted by human-related activities. Furthermore, a UN panel reported that an increase in the global temperature of 1.5 degrees (Celsius) would place 20%-30% of all species under the threat of extinction.

Meanwhile, more than 99.9% of peer-reviewed scientific journals discussing the topic of climate change have determined that people are the primary drivers, with greenhouse gas emissions the primary cause. This has led to the following occurrences.

1

The concentration of atmospheric CO₂ set a record high of 417 parts per million (PPM) in May 2020. The previous record of 400 PPM of CO₂ took place during the Pliocene era, nearly 4 million years ago. At that time, global temperatures were 2 to 4 degrees (Celsius) warmer than they are today, with sea levels reaching 10 to 25 meters (33 to 82 feet) above where they are now.

2

The temperature in eastern Siberia reached 38 degrees (Celsius) in June 2020, the highest recorded in the Arctic Circle. This led to quicker sea-ice melting in the East Siberian and Laptev seas.

The Challenges

Fossil Fuels and Renewable Energy

Much of the world—and our society—depends on fossil fuels to function.

Fossil fuels are the result of millennia of decomposing plants and other animals buried under layers of sediment and rock. These non-renewable energy sources, including coal, oil and natural gas, account for over 80% of global energy production.

One issue is that carbon dioxide emissions from coal combustion account for 44% of total worldwide emissions and are the primary contributor to the global temperature increase. Each day, fossil fuels are used for power, energy, heat, transportation and to supply raw materials for a variety of goods. People rely on fossil fuels for cooking, climate control and driving.

Furthermore, according to the University College London's Institute for Sustainable Resources, a certain percentage of existing coal, gas and oil reserves must stay in the ground until 2050 to remain below the insurers' two-degree increase target rate.

Fossil fuel use must be reduced to improve conservation efforts. This means changing every-day behaviours in an effort to reduce a catastrophic outcome to our planet and, by extension, to humanity.

One possible solution is to turn to renewable energy sources in an effort to mitigate and avert the worst outcomes of climate change. Renewable energy is derived from natural resources that can be regenerated over the course of an average

human lifespan and includes the following forms of power:



Solar



Hydro



Wind



Biomass

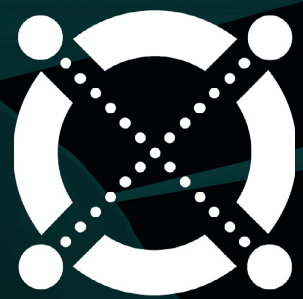


Geothermal

Renewable energy often emits less CO₂ than fossil fuels. Except when used for building and maintenance, renewable energy sources, such as solar and wind power, produce little to no CO₂.

The International Renewable Energy Agency (IRENA) estimates that more than 90% of the required reductions in energy-related carbon emissions can be achieved through use of renewables and energy efficiency. The organization also noted that combining widespread electrification and digital technologies with renewable power can "become a central pillar of energy and climate policy."

In an effort to provide education about the perils of climate change and to fund programs supporting its mitigation, we are combining forces with the Elrond blockchain to launch the MaiarSpecies initiative.



Blockchain and Elrond

Blockchain Overview

Blockchain technology was first introduced to support cryptocurrency offerings and decentralized systems. To date, blockchain technology and its distributed network have successfully supported financial transactions, contract completions and transfer of rights, among other activities.

During a blockchain transaction, encrypted data is stored on millions of computers (nodes), which make up the entire hardware infrastructure. As each new record is produced and uploaded, all nodes are updated with the new information. The data is tamper-proof,

while still supporting transactional transparency.

The downside is that the technology requires a great deal of energy, typically using more power than a medium-sized country.

Advantages of Elrond

Elrond, the first European carbon-negative blockchain, introduced sustainable methods of blockchain usage with far less impact on the environment. While Elrond's network improves execution speed by 1,000 times, the energy used to process transactions is up to 6 million times lower than the competition, ensuring sustainability.

The Elrond blockchain also offers these benefits:



Scalability

Elrond's current network capacity supports 15,000 transactions per second (TPS), which is scalable to more than 100,000 TPS. This is essential in supporting global projects.



NFT Ownership

Elrond's smart accounts are connected with a data field, providing accounts with a key-value storage. This allows storage for token balances and means tokens belong to a personal account, rather than being associated with a third-party account address.



Enhanced security

Though decentralization generates a better line of defense when using blockchain, the technology isn't immune to hacking. Elrond enhances the blockchain's security through Secure Proof-of-Stake consensus (SPoS).



Lower transaction fees

Reduced costs are necessary for market adoption of blockchain initiatives. Elrond is setting the standard for low transaction fees compared to traditional payment methods.

The Offsetra-Elrond Analysis

Offsetra studied more than 5,000 servers located in more than 30 countries and 6 continents to determine the Elrond blockchain's energy use. They also analyzed network links, product development and operations efforts. The results showed that by retiring a combined mass of 7.4 million kilograms of CO₂, the Elrond blockchain reduced its carbon footprint by 25%, leading to a carbon-negative status. To better understand Elrond's blockchain network and operations, Offsetra also conducted a carbon footprint analysis using the Greenhouse Gas Protocol (GHG) to better understand Elrond's blockchain network and operations. Here's how the Elrond blockchain performed through the GHG's three emission scope levels:

Scope #1: Low

This focuses on emissions directly attributable to the organisation's use of fuels to produce energy. Scope 1 emissions were not present in either the Elrond organization or its network, with no CO₂ metric tonnes emitted.

Scope #3: High

This focuses on emissions from sources not under the organisation's control, though linked to operations. In this category, Elrond's business trips, staff commutes and energy generated by the blockchain network creates a yield of 4,809 metric tonnes (81.2%) of CO₂. To summarise, Elrond emits an anticipated total 4,784.5 trillion metric tonnes of CO₂e.

Scope #2: Medium

This category counts both consumption and energy purchase generating indirect emissions. Under this scope, Elrond's block emits 1,116.97 metric tonnes (18.9 %) of CO₂. Specifically:

- Network activity emits 1.10 trillion metric tonnes of carbon dioxide equivalent (CO₂e), based on geographic locations
- The Romanian grid usage generates approximately 28,000 kw per year, translating to the equivalent of 8.97 metric tonnes of CO₂e





Overview

If carbon emissions continue to increase, up to half of the flora and fauna in the world's most biologically diverse locations could become extinct by the end of the century. This, in turn, could destroy the planet's ability to fight off climate change. Preventing this from happening will rely on education and incentives. Specifically, we want to let our community know that the window is still open for humanity's future. We want to provide incentives that encourage individuals to make a significant difference to our imperiled planet.

MaiarSpecies is being launched to build a community of individuals who share a common commitment to sustainability and a greener future. The initiative will offer a total of 11,111 unique and randomly created non-fungible tokens (NFT), available via the Elrond blockchain.

MaiarSpecies will be supported by a self-sustaining decentralised autonomous organization (DAO). Use of the DAO model means we can support specific activities—including investments, community outreach, charity donations and fundraising to support renewable energies—without the need for third-party intermediaries.

Those involved with MaiarSpecies can use their tokens for voting, submitting proposals and earning rewards. Eventually, the NFTs will be available for use on a play-to-earn and free-to-play platform in an appropriate virtual environment.

Elrond's carbon-negative blockchain also provides the freedom to add extras to our NFT initiative; a percentage of funding will be allocated to planting precious trees, as well as to community outreach and education. As such, those acquiring NFTs will instantly contribute to a greener, healthier future.

The Roll out

The MaiarSpecies program encompasses a two-phase rollout:

Phase I

Development and release of the Generation 1 species, with NFT availability as follows:

- MaiarGorillas: 1,590 NFTs
- MaiarBats: 1,588 NFTs
- MaiarBears: 1,582 NFTs
- MaiarSpecie4: 1,590 NFTs
- MaiarSpecie5: 1,582 NFTs
- MaiarSpecie6: 1,588 NFTs
- MaiarSpecie7: 1,591 NFTs

Each Generation Species NFT will be a playable character with specific abilities, placed in an economic system that rewards players while supporting the project development.

Phase II

Once Generation 1 species sell-out is achieved, we'll continue to the next steps:

- Expansion of the MaiarSpecies Team
- Development and release of the Generation 2 species
- Initiation of MaiarSpecies game development, as follows:
- Development of a free-to-play/ play-to-earn game
- Creation of a MaiarSpecies Marketplace, where those involved can acquire assets (maps, weapons and accessories, etc.) and species on the secondary market
- MaiarSpecies Token

Growing NFT Collections

It will be possible to expand NFT collections through weekly raffles for NFT stakers. The more complete the MaiarSpecies collection, the higher the probability of earning more NFTs.

1 specie = 1 ticket	5 species = 11 tickets
2 species = 3 tickets	6 species = 15 tickets
3 species = 5 tickets	7 species = 21 tickets
4 species = 8 tickets	

Tokenomics

MaiarSpecies NFT for the Community

1,400 NFTs will be stored in the community vault and for marketing purposes

- 1,330 NFTs will be stored in the community tree and earned throughout the year (190 NFTs per species)
- 42 NFTs will be used for marketing and giveaways
- 28 NFTs will be used for the team

Revenue Breakdowns

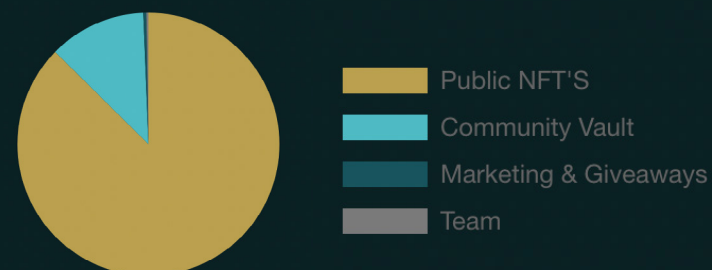
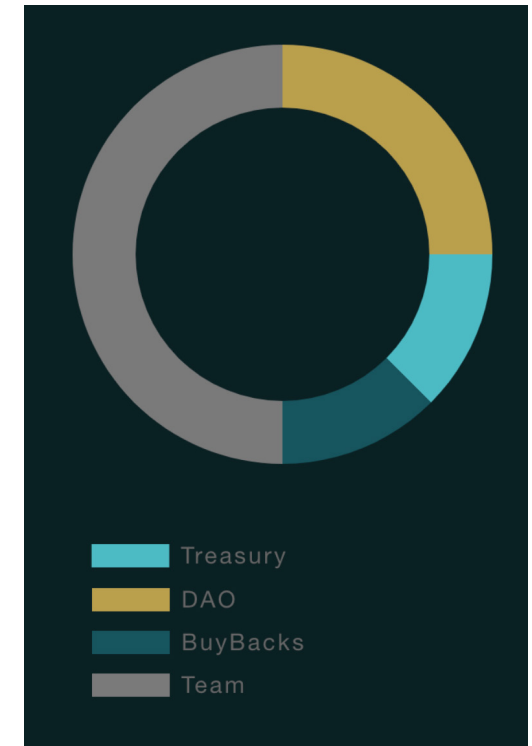
Revenue collected from the sale of MaiarSpecies NFTs will break down as follows:

- Team: 50%
- Charity Programmes: 40%
 - MaiarSpecies Charity SP: 30%
 - Planting Trees: 5%
 - Staked Long Term: 5%
- Project Development: 10%

Royalties Distribution

Each resale will generate an 8% royalty fee, divided into the following categories:

- Team: 4%
- DAO: 2%
- Periodic Buyback: 1%
- Treasury: 1%



Token \$DARWIN

\$Darwin will be the Elrond Standard Digital Token (ESDT) for the MaiarSpecies ecosystem. \$Darwin tokens will help community members invest in positive-impact projects that will help offset CO2 emissions and preserve our environment.

It will have a limited supply token with every year less issuance, decreasing continuously.

How to earn \$Darwins:

- Minting a MaiarSpecies NFT; allocations will be received when the \$Darwin is issued
- Staking a MaiarSpecies NFT
- Staking Elrond's Locked MEX (LKMEX)
- Participation in the play-to-earn platform

Roadmap

Meteoroid: Q1—2022

- Whitepaper 1.0, Tokenomics and Storyline Chapter 1 unveiled
- MaiarSpecies introduction to community
- Twitter, Telegram and Discord launch
- Marketing website goes live
- Giveaway campaign opens

Meteor: Q2—2022

- Mint Dapp development starts
- Presales begin:
 - Presale 1:*
873 NFTs for 0.6 EGLD (includes 3 MaiarSpecies)
 - Presale 2:*
2,067 NFTs for 0.8 EGLD (includes 2 extra MaiarSpecies)
- Merchandise introduced
- Website upgrade commences

Meteorite: Q3—2022

- Public sales begin:
 - Public sale 1:*
3,385 NFTs for 1 EGLD (includes 2 extra MaiarSpecies)
 - Public sale 2:*
3,386 NFTs for EGLD to be announced
(includes all MaiarSpecies)
- 70 EGLD buyback from the market launched
- MaiarSpecies DAO formed (with staking mechanisms and community rewards)
- Storyline Chapter 2 distribution
- More to come for Q4...

The Maiar Species Team

Elrond Maximalist

Dirk is the co-founder and project manager of the MaiarSpecies NFT. A scaffold supervisor by day and crypto investor in his down time, Dirk has been active in the crypto world since 2018. Each day, he gains more understanding of and appreciation for blockchain possibilities and utilizations.

NFT Enthusiast

Noah is a MaiarSpecies co-founder. He dropped out of school and ended up in China, where he learned to bring discipline and structure to his life. A world traveler, he appreciates other cultures and people-oriented experiences.

Business Practitioner

A leader with more than nine years of experience, Miguel's expertise lies in developing businesses and projects; his current focus is on recycling. His passion is directed toward activities to help save the planet.

Creative Character

Freddie is a self-employed all-around designer and the lead artist behind the MaiarSpecies visuals. He has eight years of experience working across a wide variety of multimedia and creative technologies.

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