



Aquaverse

2022

# WHITE PAPER

re-connect humans to nature



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# Introduction

Aquaverse is first and foremost a dream: to re-connect humans to nature, by revolutionizing ecology. Today more than ever, we believe in this dream. This journey is also the story of an adventure between friends, the story of moments of consideration and reflection, but above all unforgettable encounters and experiences, each of which made a huge contribution to the project.

Aquaverse is an ecosystem whose objective is to clean up the oceans through aquaculture. Our ambition is to link the technological revolution that is Blockchain to the ecological needs of our planet with the participation of our community and its active support.

Our first collection, the Guardians, represent this little known but essential species to preserve the harmony of the aquatic world, the ancestor of all animals: sea sponges. This project aims to democratize access to sea cleanup by allowing each member of the community to take part in the project's decisions and to own a part of the cleanup created, via our dashboard.

In the same line and by the next collections, we will develop a Free to play / Play-to-earn game in which each NFT will be a playable character and which its economy will support the positive impact of the project. As a team of gamers ourselves, we are convinced of the impact that NFT technology will have in the field of video games and we want to be part of this revolution.

Through our choices, we are shaping our future. Together, we have the power to create change and to hope for a better world for our generation and those to come.

On behalf of the crew, we are proud to present an ecosystem that will help to revolutionize the world, welcome aboard the Aquaverse



# Aquacultures

Sea sponges are marine animals living in the depths of all our seas and oceans. Sponges are found at all latitudes, living in a wide array of ecosystems varying in temperature and depth (Van Soest et al. 2012). They survive in Caspian Sea and even thrive in Mariana Trench, the deepest place on Earth. They've existed for 700 million years and endure in marine, brackish and freshwater ecosystems. They are mostly composed of spongin which makes them spongy like our dish sponges.

They live attached to the seabed mostly in colonies. Sponges continuously filter the sea water to feed on organic particles in the water. Depending on their size, which can reach several meters, they filter an impressive quantity of water. Sponges process huge amounts of water daily at up to 900 times their body volume of water per hour and filter 50,000 liters of seawater per liter of sponge volume per day (Gökalp et al. 2020b). Theoretically, a 10 cm<sup>3</sup> sea sponge, filters about 10,000 liters of water per day or 3.6 million liters in 1 year.

There are more than 10,000 identified species of sea sponges coming in various sizes, shapes and colors. Some even defend themselves by producing glass spines or toxins to keep predators away without even moving.

Nature's wisdom has always inspired mankind since our earliest ancestors. The love story between sea sponges and mankind goes back to 5000 years ago. The Egyptians (3000 BC) and the Phoenicians (1200 BC) used them to clean themselves, they were already part of the daily hygiene of these civilizations (Voultsiadou et al. 2011).

Even the creator of Sponge Bob Squarepants, Stephen Hillenburg, was a marine biologist. He was inspired by sea sponges to create his character. We were still using them 70 years ago, until the industrial revolution, which marked the beginning of a destructive era for the planet and all its inhabitants.







## Their power to clean up pollution, bioaccumulate harmful substances

Researchers have realized that sea sponges keep a secret that makes them even more surprising: bioaccumulation.

Bioaccumulation refers to the capacity of an organism to absorb and concentrate chemical substances such as heavy metals or microplastics.

By filtering water, sea sponges are able to capture pollutants suspended in the water with impressive quantities. So much so that a study by the University of Bretagne Sud shows that the port of Lorient in France can be cleaned up in 2 months with only 2000 sea sponges (REF). It can even get rid of certain harmful bacteria or viruses that we find in our water to avoid certain bacterial disease & epidemics.

If sea water is polluted, ecosystems are polluted too. Heavy metals toxic chemicals and microplastics are found in all our food coming from the sea. We eat the equivalent of a credit card's worth of plastics per week on average.

In addition, around the globe, 1 billion people depend on marine resources as their unique source of protein. These people are mostly in the poorest countries.

The aquaculture of sea sponge is therefore a real hope to clean up the sea, sustainable use of marine resources and bring more harmony in this world. This is the mission of the Guardians.



# The different aquacultures, and their impact

There are two types of aquaculture: sea and tank. We intend to make 4 of them, three in the sea and one experimental in a tank to optimize the depollution and the production of sponge.

## Sea aquaculture

A sea sponge can be cut into several pieces, each piece can grow back on its own. Depending on the species, you just have to hang them on a wire and leave them in suspension so that they pump sea water to filter it, feed themselves and clean up.

This type of aquaculture has been practiced for several decades in Tanzania, Micronesia, Turkey and more in the world for scientific experiments

The association [marinecultures.org](http://marinecultures.org) has been working since 2008 to preserve marine ecosystems by setting up sea sponge aquacultures and training local people, particularly in Zanzibar. Their aquacultures allow to :

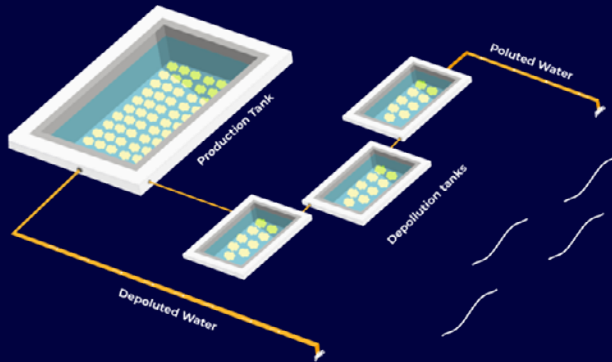
- Clean up the sea water on the coasts
- Recreate a healthy ecosystem closer to the coast. This will bring the fish closer to the coast so that the locals can fish closer (which is safer for them)
- All this while training local people (especially women in poverty) to this brand-new profession: sponge farmers.

So if you buy a Guardian you support us and we can offer a better world to people all over the world by cleaning up the sea to give them access to better resources, more simply and healthier.

But we can go further and create together high-performance aquaculture tanks that will be gamechanger for the whole humanity.



## Tanks aquaculture



This is the Guardians plan. A plan of very promising prototype of sea sponges aquaculture, with high efficiency in retaining a wide size range of suspended organic particles which was tested in various facilities with different promising sponge species.

### This aquaculture consists in:

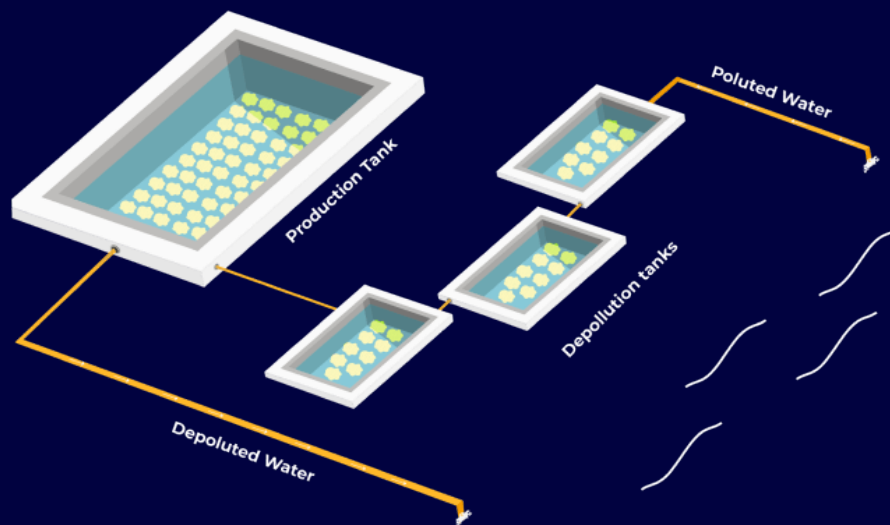
- Pumping sea water into a first pond (A on the plan) which will be composed of sea sponges in charge of bioremediating the local pollution. As said before, there are 10.000 different species, all of them do not filter out the pollutant in the same quantity, so we will take care to choose the local species that are the most effective at bioremediating the local pollution. Thus, we will have as many bioremediation basins as sponge species selected against local pollutants.
- Once the water is cleaned, we bring it in a second pond (B on the plan). In this one we will find the most interesting marketable sea sponges:
  - Spongia officinalis: Thermal insulation, agro-textile, textile, hygienic pad
  - Hippospongia communis: thermal insulation, agro-textile, textile, shower flower
  - Spongia lamella: face cleanser
  - Many products in discussion and test stages

**Note: 2% of all profits from the sale of these products will go to the Guardians, the holders of the Aquaverse NFT**

Finally, at the end of this 2nd pond, we will be able to provide the sea with clean and healthy water.

If we estimate that a pond can contain about 100,000 sponges, this means 1 billion liters of water cleaned every day and + 360 billion in 1 year.

The objective will be to equip all the coasts, ports and polluting aquacultures of our pond to be able to bioremediate the seas and oceans together.



In addition to that, our sea sponge aquacultures can have 2 others applications:

- **Bioremediation services** : the pond A on the Guardians Plan can be used alone to clean the seas wherever we are asked and financed by governments, fish farmers, polluting companies or other organizations.

- **Co-cultures bioremediation**: The concept of integrated multitrophic aquaculture (IMTA) based on the ecological concept of efficient reuse of organic and inorganic waste streams through the application of different trophic levels of the food web within the culture system (Gökalp et al. 2020c). To simplify this, an aquaculture without sea sponges is pollutant. That's why we want to make a POC of integrated sea sponge aquaculture and other aquacultures. This will enable Aquaverse to offer to all fish farmers to integrate a sea sponge aquaculture module to have better water quality.

**This have a great impact for them:**

- Less mortality, more productivity, more profitability
- Avoid diseases for fish farmed and for us humans. For example we often have contaminations on oysters due to the bacteria E. coli which come from wastewater discharges and causes diarrhea or worse in some cases. According to a study from Université Bretagne Sud, sea sponges can filter 98,5% of E. coli in 72h
- Better growth, better profitability
- Less pollution: quality and quantity to feed humanity in a healthy way by mimicking nature (sponges are naturally present in nature for that)

A part of all the revenues generated by both applications will also return to Guardians holders and \$SPONGES investors through SSAI (Sea Sponge Aquaculture Investment)

In order to gather all the knowledge from the Guardians of the Aquaverse and build this Guardians Plan we have to do some POC (Proof Of Concept) with our researchers.



## 山 Roadmap Aquaculture ponds

### Q2 - 2022 : POC Bioremediation in Marseille

Selection of local sea sponge species to clean up local pollutants Find the best conditions for them to filter the more pollution

### Q2 - 2022 : POC Production Port-Cros, France or Marseille

Find the best physical, chemical and biological conditions to find efficient growth of cultivated and local sea sponge species

### POC co-culture bioremediation in Camaret-sur-Mer, Bretagne, France : **Starts in March 2022**

Selection of local sea sponges Selection of local marine ressources to farm (can be oysters, pink shrimp, corals, mussels, lobsters...) Camaret-sur-Mer is a city for fish farmers, we can connect our ponds to their ponds and provide them a better water quality Find the best harmony according to Nature wisdom







# Blockchain & Community

## Elrond



*Humanity's ability to progress beyond what we thought possible not so long ago can continue only if we are conscious about our impact on the environment and the next generations. Climate change is a serious challenge, but one we can decisively solve if we act immediately*



-Benjamin Mincu, Elrond CEO





## Why did we choose Elrond ?



**Carbone negative :** Elrond becomes the first European carbon negative blockchain, opening a new wave of sustainable innovation in line with European climate policy. By combining Elrond's 25% positive Co2 emission with the impact of our aquaculture, owning a Guardian becomes a true ecological act.



**Scalable :** Elrond's current network capacity is of 15,000 transactions per second, scalable to over 100,000 TPS, improving throughput and speed of execution by 1,000 times, while the energy required to process a transaction is up to 6 million times lower.



**NFT True Ownership :** Elrond smart accounts are associated with a data field. This allows any account to have a key-value storage where the balances of any number of tokens can be stored. This means that tokens can actually belong to an account, instead of being associated with its address in a third-party smart contract.



**Accessibility :** Maïar is a digital wallet & global payments application that allows you to exchange and store money securely on your cell phone. You can use Maïar to send and receive money almost instantly, to and from anyone in the world by simply using a phone number or herotag.

All you need is a smartphone with a SIM card, running iOS or Android. The same vision of democratizing access to clearing and currency



## Why did we choose Elrond ?



**Trust in Elrond Team :** We have complete confidence in the Elrond team and their vision. They aims to build a high-speed blockchain that aspires to build the next Internet-scale blockchain. Recognizing that most scalability efforts by other projects are not sufficient to the extent that the efforts only “throw the box down the road”, Elrond set out to create a blockchain capable of 1000x the throughput of most existing blockchains. This improved transaction throughput allows Elrond to handle even the most aggressive wave of user adoption.



# Guardian's Collection





# Guardian's Collection

- ▮ A collection of 9999 NFTs featuring the **Guardians of the Aquaverse**. The Guardians are a people of ancient sea sponges living in the unexplored and mysterious deep sea. Their role is to preserve the harmony of the Aquaverse. They are able to do this because of their ancient wisdom, which they draw directly from nature. They are wise and peaceful, but if you harm the harmony of the Aquaverse, they will be strong and unforgiving.
- ▮ This collection will have a direct and concrete impact on the de-pollution of our oceans, tackling **micropollutants** such as **microplastics** or heavy metals through the aquaculture of sea sponges. In addition, by owning a Guardian you will be among the first community members to receive and accumulate \$Sponges, our ESDT Token.
- ▮ In alignment with the **Play to Earn** vision, Guardian's NFT's allow Holders to send their Guardian's on missions. During the mission, the Guardian's are stored on our platform for a specific period of time. Different levels of difficulty will be available with \$Sponges earnings proportional to the individual and collective results of the participating Guardian's.

## Benefits :

- ▮ Guardians holders will receive Airdrops of \$SPONGES (% on the secondary market) these royalties are reserved only for the first holders (original Mint)
- ▮ Priority on aquaculture related investments
- ▮ The Guardian's Council is a DAO only available to Guardian's holders
- ▮ In addition, Guardians can also be used in the Play to Earn Aquaverse Unknowns







# Token \$Sponges

## Disclaimer





We are working on the last technical points related to Tokenomics, it is not because there is no pie chart that it is not thought.

It has been brought to evolve with the recent decisions taken and we want to be sure to do things right because this token, like our ecosystem, must be perennial and be viable in 20 years

No figures will be given until the Tokenomics is 100% validated and locked  
There is no point in issuing the token today as it will have no concrete use before Q2 2022 and the launch of v2 of the Guardians, the platform and after the ICO.

## Introduction

### Type of Token :

-  The \$Sponges is the ESDT utility token of the Aquaverse ecosystem. It will allow you to exercise your governance and invest in positive impact projects, firstly on our aquacultures and secondly on external projects with positive impact.
-  We have chosen to call our token the \$SPONGES because, like our NFTs, it represents sea sponges and will support the development of this underwater revolution.  
Its objective is to ensure the funding of an ecosystem that is positive from all points of view (environmental, social, financial) based on sea sponges.
-  This is a deflationary limited supply token with several burn mechanisms that ensure its valorization.
-  These tokens will be distributed to members of the Aquaverse NFT community. First members are the Guardians owners, but they will be followed by owners of all our NFT collections and players of our Play to Earn.



# How to earn \$Sponges:



- By minting a Guardian

- We will make a snapshot of all the addresses that have minted a Guardian, and they will receive an allocation when the \$SPONGES is issued
- Royalties on the sales of your Guardian on the secondary market (first holders only)



- By buying or selling a Guardian on the secondary market, cashback in \$SPONGES



- By stacking your Guardian



- By holding a Guardian (Frequent airdrops)



- By playing the Play to earn

The Guardians have a very special place as they are the first NFT collection from the Aquaverse. As a thank you to all the community members who helped us make this whole project possible, we wanted to offer something special to first Guardians owners.

For every transaction of their Guardian on the secondary market, the first owners will receive Royalties in \$SPONGES token for life!



# \$Sponges Utility

## DAO

The DAO will hold a pool of funds, fed by a % of the secondary market revenues and transactions in the ecosystem. Its members will be able to vote on the allocation of the treasury

## Launchpad

Supporting research through blockchain  
Funding our researchers' theses →  
Aquaverse IP

### Aquaculture at sea

Funding "social" aquacultures

### Aquaculture in ponds

Invest in new tank aquacultures → ROI on  
benefits + ROI Token for depollution

### Depollution service container

Invest in Containers → ROI on profits  
+ ROI Token for depollution

## Play to Earn

All P2E internal exchanges

## Guardian's Collection

### Split / Merge your Guardian

You will pay in \$SPONGES to split your Guardian and to merge a new one

### Aquaverse Marketplace

Buy assets or guardian's on the secondary market

### 2. Buy new assets (Events, Collab...)

### 3. Stack your Guardian

To send your Guardian on a mission, you will have to pay a fee in \$Sponges. The reward will largely cover the fees, but they will be lost (burn) if the Guardian is called back before the end of his mission (no reward + loss of fees)

## Jimbei Product

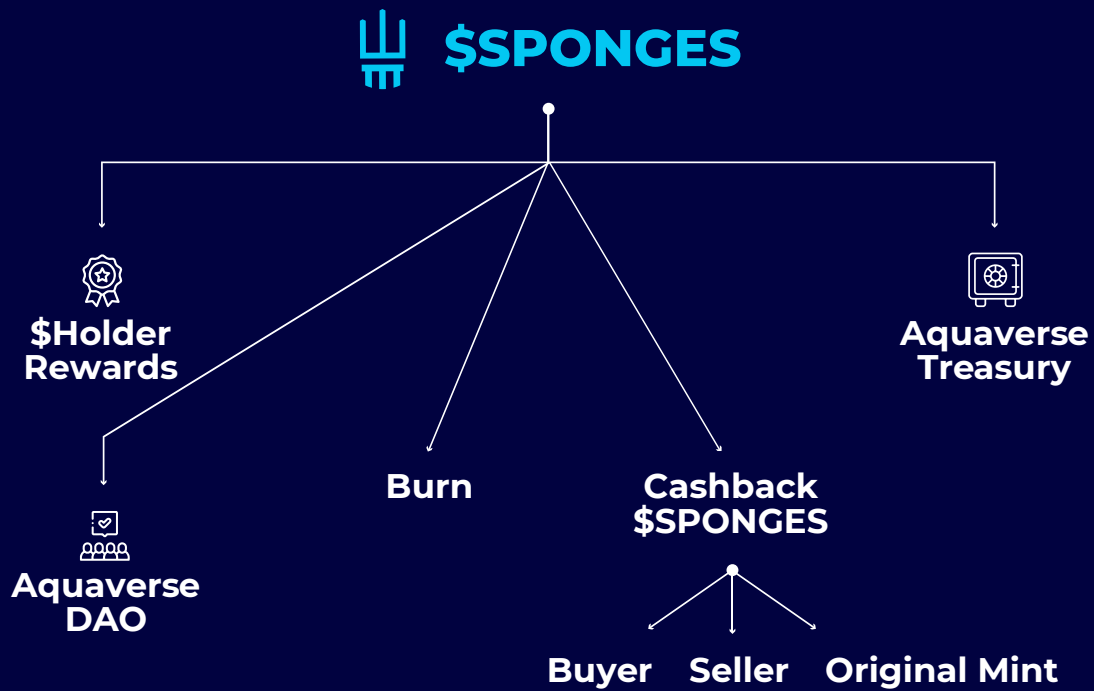
Buy Jimbei products on our website  
with \$SPONGES



## 02

**For all secondary market revenues in \$SPONGES**

1. Revenues on the “internal” secondary market, Aquaverse Marketplace on each transaction made on our marketplace, Aquaverse receives 5% Royalties
2. Sale of new assets on our marketplace (Events, Collabs...)





# Platform

## Introduction

In Q2 2022 we will release a 3D platform to immerse yourself in the aquaverse! You will find all the components of our ecosystem and be able to interact with it.







## The different products



### 1. Split / Merge your Guardian

- a) There you will be able to split and merge your Guardian by paying with \$SPONGES



### 2. Marketplace

- a) Payment in \$SPONGES and \$EGLD. No transaction fees for payments in \$SPONGES



### 3. Missions

- a) This is where you can send your Guardian on a mission to earn \$SPONGES



### 4. App Defi

- a) Stacking
- b) Farming
- c) Swap



### 5. Guardian's DAO

- a) Access to all information related to the project progress
- b) The ability to vote on decisions that are the responsibility of the Governance
- c) Governance over the allocation of the DAO Treasury



### 6. Aquaculture Launchpad

- a) Invests your \$SPONGES on our different aquacultures projects





# Play to earn

We want to develop a free-to-play / play-to-earn game whose economy will support the positive impact of the Aquaverse project. As a team of gamers ourselves, we are convinced of the impact that NFT technology will have in the field of video games and we want to be part of this revolution!

Aquaverse is a Metaverse that aims to bring together a community in an immersive virtual online world, you will embody your NFT in an unknown aquatic world. Discover the secrets hidden in the four corners of the **Metaverse** and find a multitude of weapons, equipment, a dozen different professions and several hundred monsters spread out in different areas!

The 9,999 guardians will have a special place in this game, we still have to define their particularities but they will be important without impacting the balance.



# Team

The Aquaverse team embarks on an adventure to discover and protect the fauna and flora of our oceans. With the help of our community we want to make **our planet a better place and the oceans a little cleaner every day**. We believe in a mix of natural methods and modern technology to achieve this. Through innovation and cooperation, our goal is to be one step ahead of climate decline by providing a concrete solution to today's environmental challenges.

Our team is mostly from the Parisian suburbs and it is our entrepreneurial profile and the desire to be actors of change that brought us together in this adventure. We are based in Paris, at Station F the heart of the French startup ecosystem and largest startup incubator in the world, created by Xavier Niel in 2017.





# Roadmap

## Q4 - 2021

### Aquaverse

- Technical Road Map
- Whitepaper (v1)
- Conception 9999 Guardian's Collection

### December,

- Guardian's presale whitelisting for 1000 NFTs Sold Out (End 3 Dec 2021)
  1. 400 Holders
  2. 300 Whitelist
  3. Mint price 0,4 EGLD

## Q1 - 2022

### January,

- Private Sale for investors 1500 NFT's Sold Out (End 4 Janv)
  1. 27 Holders
  2. Mint price 0,4 EGLD
- Whitepaper Update (v2)

### February,

- **Mint Open for Holders Presale & Private Sale**  
- (07 - 02 - 2022 / 11 - 02 - 2022)
- **Public Sale 6999 NFT's (12 - 02 - 2022)**  
- **Price 1,2 EGLD**  
(Pricing determined by the most committed Guardian's community)



## Q2 - 2022

### TBA May - June

- \$Sponges ICO & Claim Guardian's for holders
- Aquaverse App part .1/2
  1. Custom your Armory
  2. Split & Merge your NFT's
  3. Stake your Guardian's
  4. Governance
- Guardian's Holders DAO

## Q3 - 2022

### TBA July, August, and September (Q3) - 2022

- Aquaverse App part . 2/2
  1. Market
    - Buy / Sell in P2P of assets present on the market
    - Advantage 0% Fees
  2. Aquaculture monitoring
  3. Guardian's Adventure
    - Web APP
      - ◇ Solo
      - ◇ Co-op
      - ◇ Duel Champion

## Q4 - 2022

### October, November, and December (Q4) - 2022

- Sale of the NFT Aquaverse Unknown collections
- Launchpad
  1. Supporting research through \$Sponges
  2. Aquaculture at sea through \$Sponges
  3. Aquaculture in ponds through \$Sponges
  4. Dépollution service container through \$Sponges

## 2023 TBA Play to earn - Aquaverse Unknowns

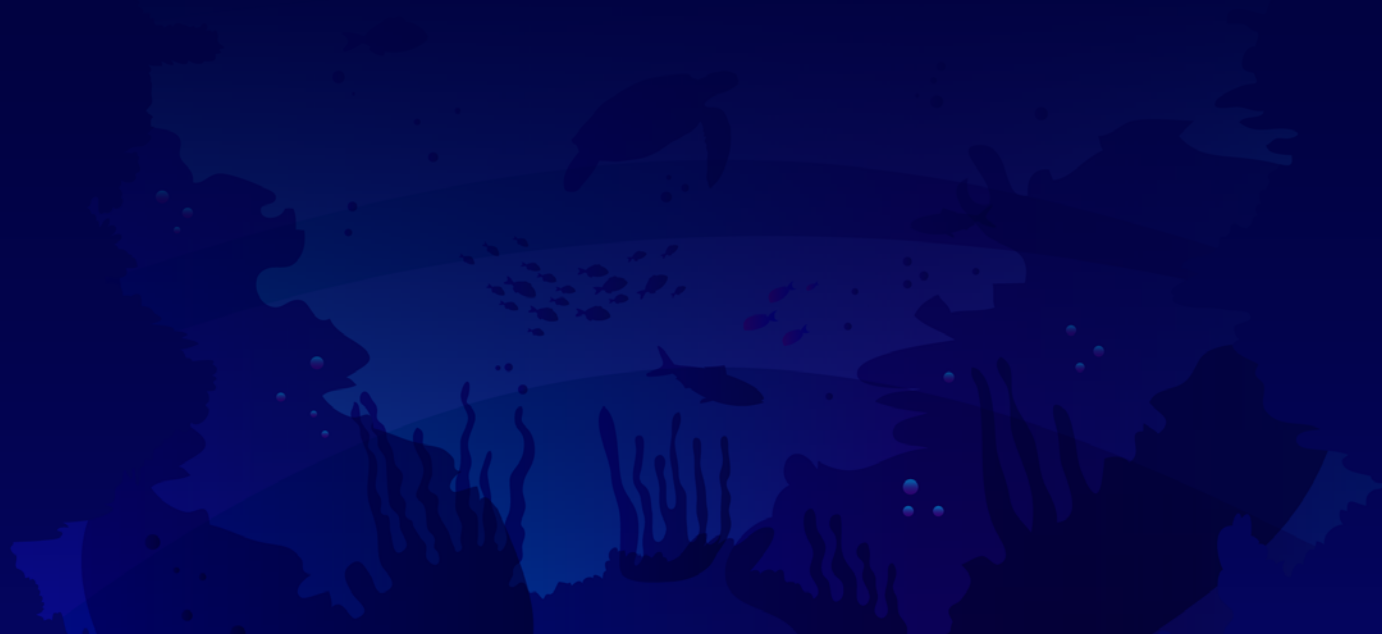




# Our partners



STATION F



2022

# WHITE PAPER

re-connect humans to nature



Aquaverse