



# Cetacean Whitepaper

A whitepaper that summarises the applications of Marine Biology Academia to Blockchain.

# Introduction

## Academia meets practical Applications

For many years there have been many studies done on topics that are seemingly uncorrelated to the world of technology, from art history, to philosophy, to our field of expertise, marine biology. This project was born out of the need to validate and test out the principles we discovered that govern certain rules within aquatic wildlife to the digital world where everything is interconnected.

Now, this interconnectedness we are seeing all around the world is due to the fascinating networks put into place thanks to modern day internet. Yet again we can see how things constantly evolve as modern-day internet has morphed again in a decentralized form that we call the Blockchain.

These two seemingly uncorrelated structures encouraged the founders of Cetacean to work on their own project, a project that unites academia to practical applications.

## Cetaceans and Blockchain

Cetaceans are aquatic mammals whose etymology comes from *cetus* and *ketos* which when combined mean huge fish in Latin and Greek respectively. Cetaceans are therefore large whales who are famous for their high intelligence and complex social behaviour as well as the enormous size of some of its members. The Founders of the project found that these behaviors can be mapped onto the social network analysis that governs human beings. This comes from a series of proprietary studies that we have made to fully map out the recognizable patterns between Cetaceans and Human Beings.

The founders' joint background in mathematics and marine biology enables them to fully understand and replicate these complex social behaviors within the blockchain industry. We believe that we can improve upon the pre-

existing systems within blockchain by combining graph theory with the natural behaviors of one of the most intelligent mammals in the world.

# Founders

Cetacean is both a utility token and a donation-centered token made by Ola Anderson and Niels Laesson:

## Ola Andreson:

Andreson is a passionate PhD Graduate who dedicated her life to studying the complex social behaviours of Cetaceans. Her academic experience and logical solutions to many complex problems made her want to start her own protocols in blockchain.

Her journey started when she fell in love with her BSc in marine biology. Throughout her academic career, she has completed both a BSc and MSc in Marine Biology, therefore cementing her passion for aquatic life, and has recently completed her PhD on the topic of Analyzing the complex social behaviors of Cetaceans, one of the most intelligent aquatic mammals on earth.

## Niels Laesson

Laesson has always been passionate about mathematics, holding both a BSc and an in Mathematics. The first gave his foundation toward the topic, and the second degree was more statistically orientated given the coursework in Stationary and Non-stationary Spectral Analysis, Monte Carlo methods for stochastic inference, etc. Niels has also concluded a PhD in the Theory of Science and Methodology of Research in 2021. This interest in the field was given by the inspiration Laesson received from Andreson, who was dedicated to the field of Marine Biology but needed a co-founder with rigorous mathematical and statistical abilities.

# Technological Replication of Mammalian Social Dynamics

The focus of this project is that of utilizing years of experience studying aquatic life social behaviors and applying them to the blockchain. As blockchain is built around a decentralized network of individuals, each acting as a community member, so do Cetaceans have a rich “human-like” culture very similar to the one displayed in decentralized networks. Our aim is that of not only contribute to help increase donations based around marine biology, but also that of replicating the social dynamics of these highly intelligent creatures within the decentralized community to better understand the similarities, patterns and logical behaviours that govern most of our civilizations.

Cetacean is therefore not just a project and a token; it is a social and technological experiment aimed at analyzing the similar parallel patterns we can find between the two types of subjects being studied. This would bring us one step close to understanding the role of technology applied to human beings, as if these patterns are seen to be perfectly replicated in the real world, there would be a case that favors technology as a natural evolution of humanity, given highly intelligent mammals such as Cetaceans already employ these types of behaviors naturally.

## Conclusion

The years spent researching marine biology has finally led the founders to find a practical application to aquatic life’s complex social patterns within modern technologies. This would be the next step not only to further the research on important topics such as marine biology but would also lead to a breakthrough in technological terms, as the social complexities involved are to be tested and verified for which a decentralized network paints the perfect scene to bring our years of experience into fruition.