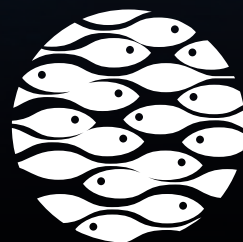


20 21

**ANNUAL
REPORT**
OCEANÁRIO DE LISBOA



OCEANO AZUL
foundation

Oceanário de Lisboa

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SHAREHOLDER

Oceano Azul Foundation, a non-profit legal entity under Portuguese private law whose purpose is to contribute to the conservation and sustainable use of the ocean.

**CORPORATE BODIES****BOARD OF THE GENERAL ASSEMBLY****President**

Tiago Ferreira Lemos

Secretary

Nuno de Deus Pinheiro

BOARD OF DIRECTORS**President**

José Soares dos Santos

Members

João Falcato Pereira

Tiago Pitta e Cunha

Pedro Curto Simões

Pedro Veloso

STATUTORY AUDITOR

UNTIL 30TH MAY 2021

Permanent

ERNST & YOUNG AUDIT & ASSOCIADOS - SROC, S.A.
representada por João Alves ou Luís Rosado

Substitute

Rui Abel Serra Martins

SINCE 31ST MAY 2021

Permanent

DELOITTE & ASSOCIADOS, SROC S.A.
representada por Jorge Carlos Batalha Catulo

Substitute

João Carlos Henriques Gomes Ferreira

VISION

Ocean conservation is a responsibility shared by all.

MISSION

Promoting knowledge of the ocean by raising awareness among citizens of the duty of natural heritage conservation, through changes in their behaviour.



2021

JANUARY

Oceanário de Lisboa is the no. 1 brand chosen by consumers



Closure to the public, from 15 January to 6 April, as a preventive measure arising from the pandemic situation

Signing of the commitment for inclusion and membership of the "Nova SBE inclusive community forum" institutional board

MARCH

MAY

Birth of three Magellanic penguins



FEBRUARY

Online guided tour of the aquarium allows the public at home to follow the daily life of the animals



APRIL

Reopening to the public on 7 April



Oceanário de Lisboa participates in #earthday2021, raising awareness among society of how important the ocean is to the planet



JUNE

The sea otter "Maré", one of the most charismatic and cherished inhabitants of Oceanário de Lisboa, died on 1 June, at the age of 23



Partnership with "maat - museum of art, architecture and technology" for the exhibition "aquaria - or the illusion of a boxed sea" addresses the oceans in a critical and creative way through debates, thematic visits, workshops and sessions



JULY

New programme "Dolphins in the Tagus" allows you to observe dolphins in the wild, on a boat trip in Lisbon



Reopening of the #seathefuture restaurant with a concept based on sustainability and concern for the planet's future



AUGUST

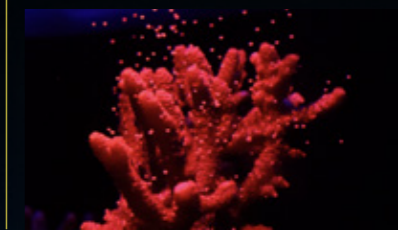
SEPTEMBER

Conservation tourism pilot programme, the "Manta conservation experience"



NOVEMBER

For the first time at Oceanário de Lisboa, the sexual reproduction of tropical corals was made possible, by inducing the release of gametes



OCTOBER

Oceanário de Lisboa begins the project to develop a new "Red book of marine fishes of Portugal"



Educational programme resumes face-to-face format at Oceanário de Lisboa



New educational programme "Salpicos no Tejo" provides schools with the opportunity to discover the biodiversity in Salinas do Samouco



DECEMBER

New guided tour is aimed at families and invites participants to discover the marine animals at Oceanário de Lisboa, guided by a marine educator



The introduction of two zebra sharks from the Indian Ocean aquarium reinforces visitor awareness as to the importance of marine biodiversity



Recognition by the "Species Survival Commission" of the International Union for the Conservation of Nature (IUCN) on the relevance and contribution of work performed by Oceanário de Lisboa towards that organisation's mission for the period 2017-2021



20 21

IN NUMBERS

VISITORS

584 751 [+12%]

VISITOR SATISFACTION INDEX

89%

PERCEPTION AS A CONSERVATION INSTITUTION

35%

SUPPORT FOR CONSERVATION PROJECTS

93 THOUSAND EUROS

ONGOING CONSERVATION PROJECTS

15

PARTICIPATION IN SPECIES BREEDING PROGRAMMES

16

OPERATING INCOME

EUR 8,6 M [+34%]

NET INCOME

EUR -2,7 M [+2,4M€]

INVESTMENT IN EQUIPMENT

169 THOUSAND EUROS [-77%]



AN AQUARIUM TO DISCOVER AND THRILL

In 2021, the year was still driven by the COVID 19 pandemic, which led to the Oceanário de Lisboa being closed between 16 January and 6 April.

The number of tourists in the city of Lisbon was once again very low for most months throughout the year, and the preventive measures for COVID-19 in Portugal until the end of August imposed a reduced venue capacity, with enormous financial repercussions.

Capitalising on the lessons learnt gained in 2020, a strong commercial dynamic was implemented, ensuring a significant increase in revenue compared to 2020, along with strict cost control, allowing for significant improvement in income, which nonetheless remains negative.

2021 was also a year of innovation, resulting from the introduction of new up-close experiences with Nature that were created and implemented, in partnership with third-party entities. Examples of these include: the educational programme, “Salpicos no Tejo” in Salinas do Samouco; the “Dolphins in the Tagus” programme based in the Alcântara docks, as well as the first eco-tourism experience, the “Manta Conservation Experience”, on the island of Santa Maria in the Azores. New programmes will also be launched in 2022.

Additionally, this year saw the start of a project to create a new red book of marine fish in Portugal, something that had not been done since the early 90s, and is seen as essential to assess the current state of the Portuguese sea.

Finally, we highlight the significant success achieved in the reproduction of species at Oceanário de Lisboa, with special emphasis on corals, which suggest an increasing impact on the acquisition of scientific knowledge by the institution.

COLLECTION



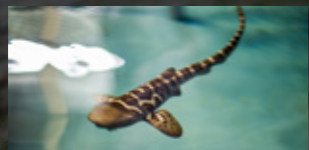
GORGONIANS

The Rocky Reef aquarium received a new species of gorgonian – *Ellisella paraplexauroides*, also taking in a few more specimens of gorgonian species: *Eunicella gazella*, *Paramuricea grayi* and *Spinimuricea atlantica*. The presentation of these species is the result of the collaboration between Oceanário de Lisboa and CCMAR – the Centre for Marine Sciences of the University of Algarve, in a project to recover gorgonians and corals stuck in fishing nets.



SHORT SNOUDED SEAHORSES (HIPPOCAMPUS HIPPOCAMPUS)

Some short snouted seahorse specimens have been added to the seagrass bed aquarium. In this aquarium, it is possible to observe the two species of seahorses present in Portugal, which have seen their populations decrease due to various threats related to human activity.



ZEBRA SHARKS (STEGOSTOMA TIGRINUM)

The introduction of two Zebra Sharks to the Indian Ocean Habitat reinforces visitor awareness as to the importance of marine biodiversity.

“MARÉ” THE SEA OTTER

The sea otter “Maré”, one of the most charismatic and cherished inhabitants at Oceanário de Lisboa, died on 1st June. Born at Oceanário de Lisboa, the daughter of the iconic otters “Amália” and “Eusébio”, she was 23 years old and died in a natural and expected process considering her advanced age.



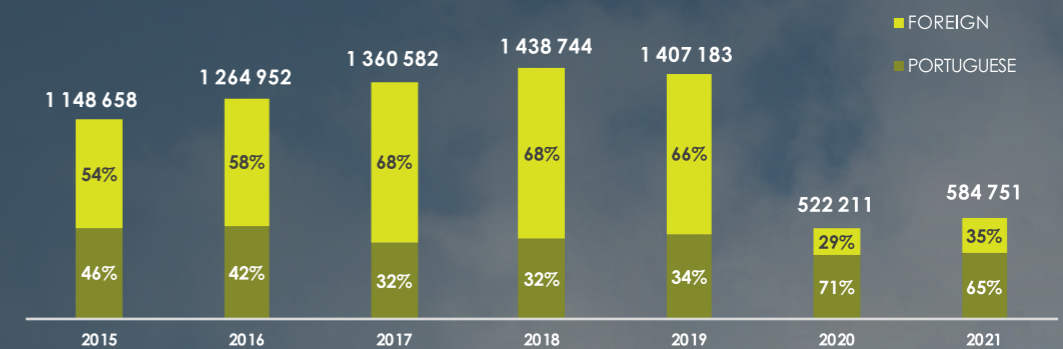
VISITORS

For the second consecutive year of the COVID 19 pandemic, with the still very marked absence of foreign tourism, 2021 was defined by an increase in the diversity of activities and commercial partnerships.

The implemented initiatives allowed for an increase in the total number of visitors by 12% compared to 2020. However, in comparison with 2019, there is still a strong decrease of 58%.

The number of domestic Portuguese visitors was 379 616, corresponding to a growth of 2% in comparison to the previous year, although it still registered decrease of 21% compared to 2019. The number of foreign visitors was 205 135, representing a growth of 3% compared to 2020, but a decrease of 78% compared to 2019.

Financial income for the year 2021 was negative, although there is a clear recovery compared to 2020.





INNOVATIVE MARKETING CAMPAIGNS

The absence of tourists in the city of Lisbon and the reduced demand for enclosed spaces to visit, forced Oceanário de Lisboa to focus on its commercial policies concerning the Portuguese public, as well as on the continuous creation of attractive conditions encouraging the public to visit. With this objective in mind, a series of commercial campaigns were launched throughout the year, with special conditions of access for target audiences such as children, young adults, families and the elderly. The campaigns revealed the deep affinity visitors have with the space, making clear the importance given and interest generated by the Oceanário de Lisboa with the national public.



«Mornings for the whole family» encourages families to visit Oceanário de Lisboa at a promotional price



«Happy Hour» invites visitors to enjoy the end of the day with a “dive” into the ocean



Marked 23 years of Oceanário with a price reduction and a national marketing campaign in the “Tik Tok universe”, developed to arouse the interest of young people, challenging them to take their parents to visit Oceanário.



«Grandparents’ Month» promotes visits to the aquarium with a promotional campaign aimed at those aged over 65, during the month when World Day for Grandparents and the Elderly is celebrated



Partnership established with Vodafone, exclusively for Yorn customers, which challenges young people to visit the aquarium with friends



World Oceans Day was celebrated with the offer of a voucher for 1 free ticket with the purchase of another, in partnership with Pingo Doce



«Happy day» invites visitors to visit Oceanário de Lisboa on Tuesdays, for the single price of EUR 10



«Spend more time together» promotes the advance purchase of tickets, with special conditions per “pack” for a better gift deal.



Partnership with Parques de Sintra [Sintra Parks Operator], which promotes visits to unique and interdependent spaces with a common mission of preserving nature and biodiversity.

Partnership with CTT promoting visits amongst pensioners through the distribution of vouchers for special discounts

Partnerships with CTT, WOOK and MBWay promoting family visits to Oceanário de Lisboa by offering child tickets to their customers



BENEFITS OF IVAUCHER AT OCEANÁRIO DE LISBOA

Oceanário de Lisboa joined IVAUCHER, an incentive system promoted by the Portuguese Government which allows taxpayers to accumulate spent VAT on cultural events, accommodation and meals, including at Oceanário de Lisboa.

OCEANÁRIO DE LISBOA IS THE NO. 1 BRAND CHOSEN BY CONSUMERS

Portuguese consumers rated and voted Oceanário de Lisboa the “No.1 Brand Chosen by Consumers”, out of 724 brands in different sectors of activity. After another demanding year, and for the second consecutive year, Oceanário de Lisboa received the Consumer’s Choice award in the category Leisure and Family Entertainment Spaces, in the 2021 edition, attesting to the recognition and confidence in the daily delivery of care for animals, and the warmth of welcome given to each visitor and in the ambition to do better and be different, for Ocean education and conservation.



VISITOR SATISFACTION INDEX

Index that assesses visitor satisfaction according to various aspects, such as overall satisfaction with the visit, friendliness of reception, waiting time, quality of the infrastructure, and information available.



PERCEPTION OF OCEANÁRIO DE LISBOA

of visitors perceive Oceanário de Lisboa as a conservation institute, a value consistent with the previous year.



MISSION FULFILLMENT

of visitors consider that Oceanário de Lisboa fulfils its mission: Promoting knowledge about the oceans by raising citizen awareness towards the duty of conserving natural heritage, through changes in their behaviour.

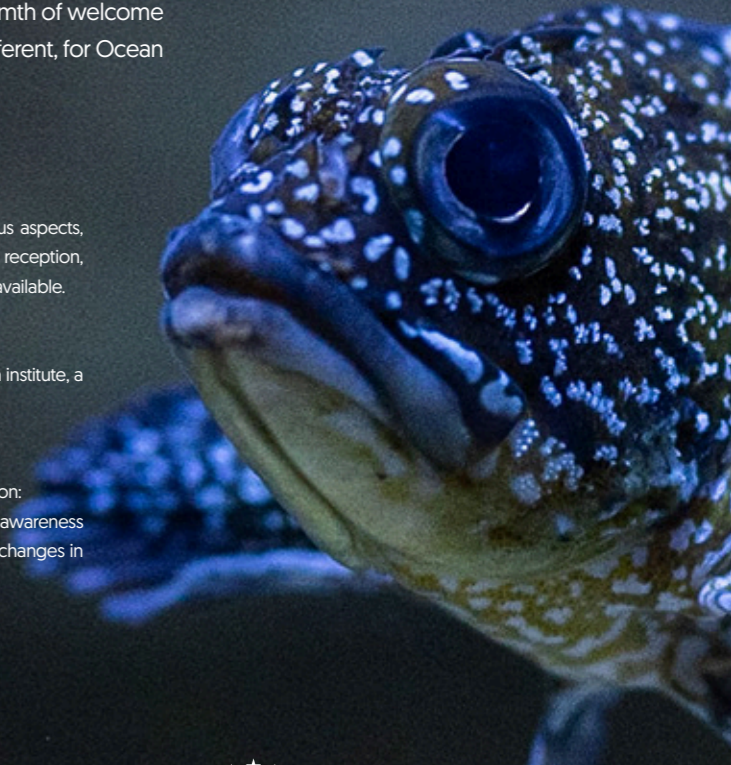
CERTIFICATIONS AND ACCREDITATIONS

As part of its strategy, Oceanário de Lisboa pursuit of an Integrated Quality and Environmental Management System, certified according to the international ISO regulations such as ISO 9001 [Quality], ISO 14001 [Environment] and EMAS [Eco-Management and Audit Scheme], has resulted in the renewal of its certifications and accreditations:



EMAS ENVIRONMENTAL STATEMENT

In the year celebrating 25 years of EMAS in Europe, the European Commission recognised Oceanário de Lisboa as one of the 10 primary organisations registered under the EMAS, and distinguished its environmental performance over all these years.

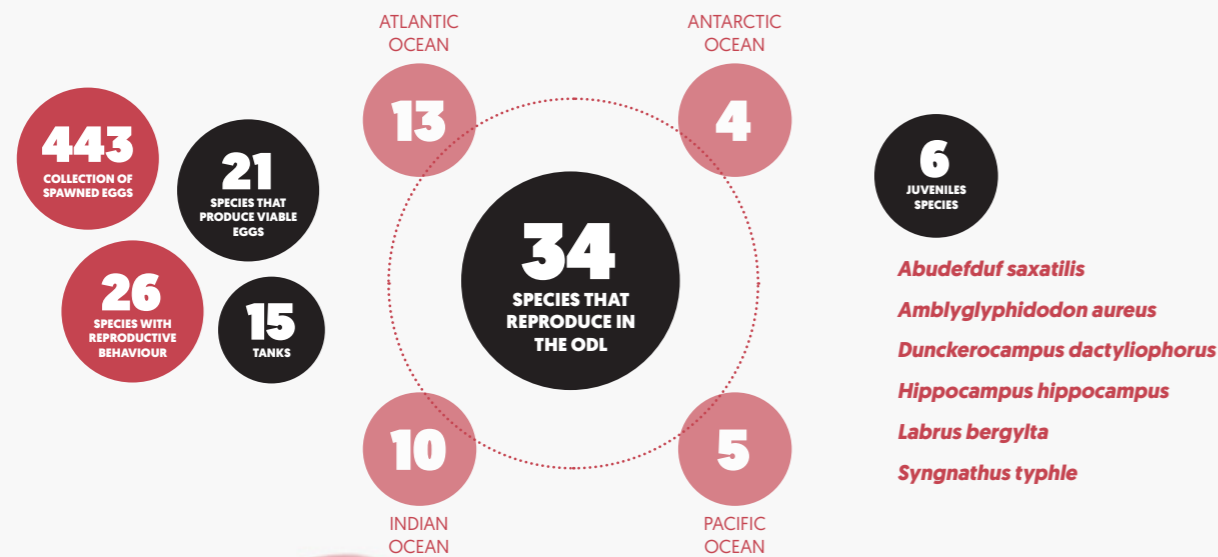


LABORATORY FOR THE REPRODUCTION OF MARINE SPECIES

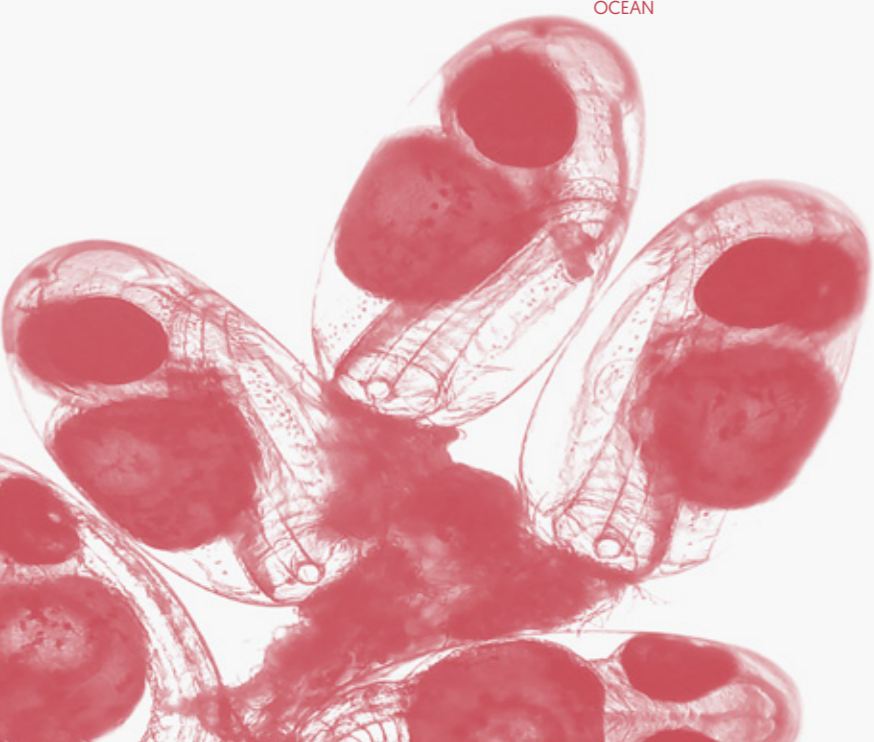
In 2021, the creation of a team dedicated to reproduction of species allowed greater focus on this activity with the development of techniques and skills generating positive results both in the reproduction of teleosts, and of tropical corals.

REPRODUCTION OF TELEOSTS

Throughout the year, it was possible to collect 443 teleost spawned eggs in more than 10 exhibition aquariums.



- Abudefduf saxatilis*
- Amblyglyphidodon aureus*
- Dunckerocampus dactyliophorus*
- Hippocampus hippocampus*
- Labrus bergylta*
- Syngnathus typhle*



Eggs from 20 species were collected and larvae from 10 species were able to feed on exogenous food. It was also possible to attain the juvenile stage for 6 species.

CORAL REPRODUCTION

Oceanário de Lisboa started its coral reproduction project in 2021, beginning with the reproduction of tropical corals and following up with the reproduction of temperate corals (gorgonians).

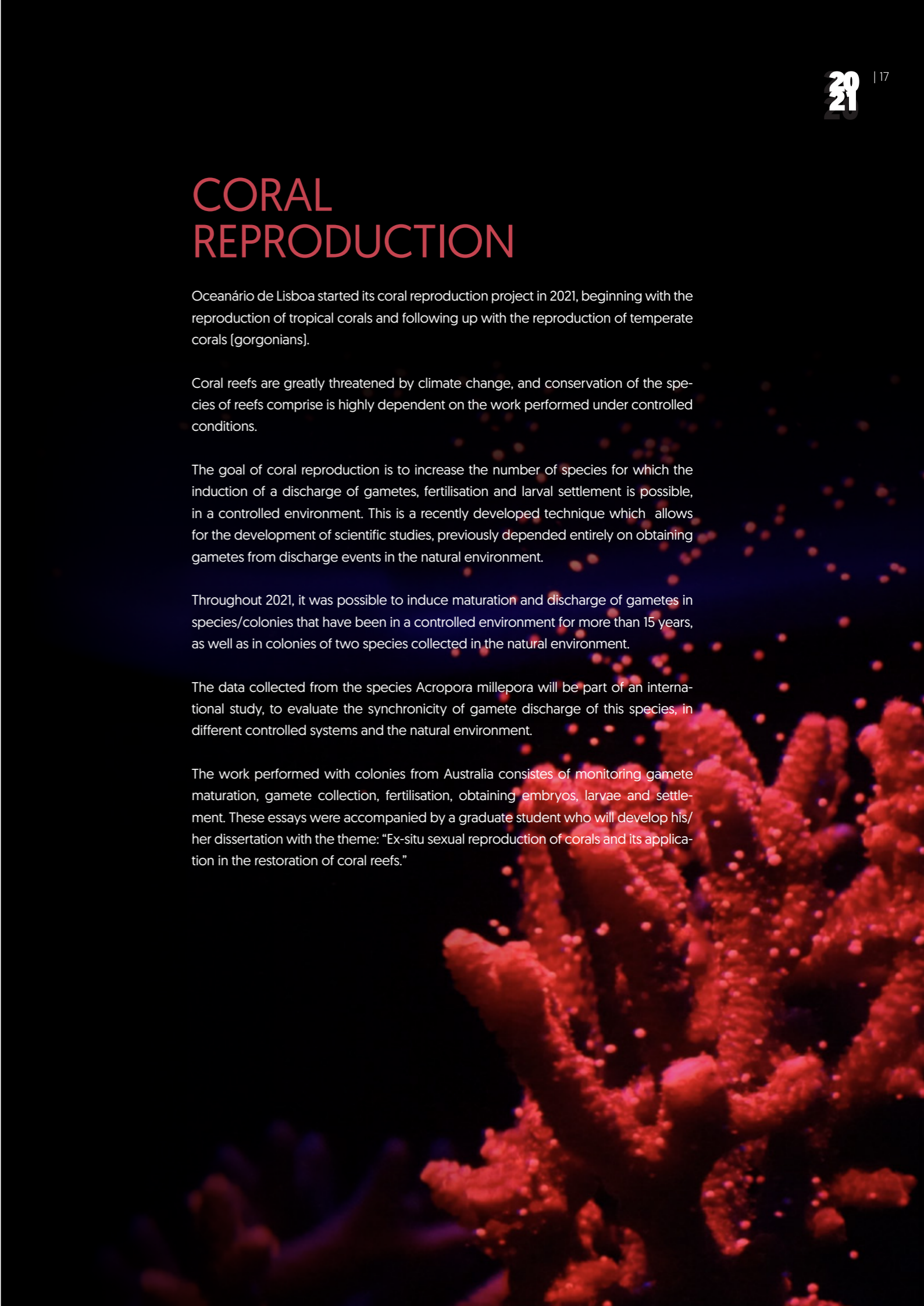
Coral reefs are greatly threatened by climate change, and conservation of the species of reefs comprise is highly dependent on the work performed under controlled conditions.

The goal of coral reproduction is to increase the number of species for which the induction of a discharge of gametes, fertilisation and larval settlement is possible, in a controlled environment. This is a recently developed technique which allows for the development of scientific studies, previously depended entirely on obtaining gametes from discharge events in the natural environment.

Throughout 2021, it was possible to induce maturation and discharge of gametes in species/colonies that have been in a controlled environment for more than 15 years, as well as in colonies of two species collected in the natural environment.

The data collected from the species *Acropora millepora* will be part of an international study, to evaluate the synchronicity of gamete discharge of this species, in different controlled systems and the natural environment.

The work performed with colonies from Australia consists of monitoring gamete maturation, gamete collection, fertilisation, obtaining embryos, larvae and settlement. These essays were accompanied by a graduate student who will develop his/her dissertation with the theme: "Ex-situ sexual reproduction of corals and its application in the restoration of coral reefs."



COLLABORATIVE CONSERVATION WORK

One of the ways in which Oceanário de Lisboa contributes to ocean conservation is by fomenting scientific knowledge concerning species and their biological collection. The work developed in this area not only promotes the sharing of knowledge and experiences achieved throughout an international network of similar minded institutions, but also places the Oceanário de Lisboa as an important promoter of, and partner in, collaborative work aimed at species conservation.

SPECIES SURVIVAL CENTRE

Since 2020, Oceanário de Lisboa joined the International Network of Species Survival Centres under the International Union for the Conservation of Nature - IUCN SSC. This network encompasses 10 zoos on 5 continents that develop collaborative work aimed at species conservation.

EXTINCTION RISK ASSESSMENT FOR MARINE SPECIES

Since 2018, Oceanário de Lisboa has been partnered with the IUCN for the assessment of species on the IUCN Red List of Threatened Species, through the inclusion of a dedicated “Species Survival Officer”, who focuses exclusively on assessing the extinction risk of marine species. As a result of this partnership, by 2021, Oceanário de Lisboa had contributed significantly to the assessment of around 700 of the 3263 marine species assessed internationally in the last 3 years. During 2021, Oceanário de Lisboa:

ASSESSED 38 MARINE SPECIES

PUBLISHED ASSESSMENTS FOR 4 SPECIES IN THE OCEANÁRIO DE LISBOA COLLECTION

PUBLISHED 85 REVIEWS ON SPECIES OF FLATFISH

COLLABORATED IN THE ASSESSMENT PROCESS OF SEAHORSE SPECIES PRESENT IN PORTUGAL

COLLABORATED IN UPDATING ASSESSMENTS FOR THE MOLIDAE FAMILY (OCEAN SUNFISH)



RECOGNITION BY THE “SPECIES SURVIVAL COMMISSION”

In 2021, Oceanário de Lisboa was recognised by the Chair of the Species Survival Commission at the International Union for the Conservation of Nature (IUCN) for the relevance and work contributed by Oceanário de Lisboa towards the IUCN SSC mission during the period between 2017-2021.



RED BOOK OF MARINE FISHES OF PORTUGAL

In 2021, Oceanário de Lisboa and the Oceano Azul Foundation, in collaboration with the Portuguese Institute for the Conservation of Nature and Forests (ICNF), with the support of Lisbon City Council, began production of the new “Red Book of Marine Fishes of Portugal”, a book that is expected to be completed in 2023. The Red List Officer at Oceanário will coordinate a team assembled for this project, seeking to determine the risk of extinction for the approximately 1050 species of marine fish found within the Portuguese territory. This project aims to bridge existing knowledge gaps and support the definition of conservation strategies, and initiatives for the protection of species, as well as ecosystems facilitating the identification of marine areas to be protected.

INTERNATIONAL PROGRAMMES AND COLLABORATIONS

PARTICIPATION IN EUROPEAN REPRODUCTION AND MONITORING PROGRAMMES FOR 16 SPECIES

MANAGEMENT PROGRAMME FOR REPRODUCTION OF THE RIBBONTAIL STINGRAY (*TAENIUURA LYMMA*)





SCIENTIFIC PUBLICATIONS

“THE GOLDEN MACKEREL: FIRST REPORT OF A XANTHIC MEDITERRANEAN HORSE MACKEREL TRACHURUS MEDITERRANEUS FROM SINES”

Simão Santos, Nuno Vasco-Rodrigues, Cristina Espírito-Santo, Frederico Almada, Cah. Biol. Mar. [2021] 62: 399-403.

“CATOSTYLUS TAGI (CLASS: SCYPHOZOA, ORDER: DISCOMEDUSAE, SUBORBER: RHIZOSTOMIDA, FAMILY: CATOSTYLIDAE) LIFE CYCLE AND FIRST INSIGHT INTO ITS ECOLOGY”

Sonia K. M. Gueroun, Tatiana M. Torres, Antonina dos Santos, Nuno Vasco Rodrigues, João Canning-Clode and Carlos Andrade, PeerJ 9:e12056 DOI 10.7717/peerj.12056

“EFFECT OF TEMPERATURE ON THE DAILY INCREMENT DEPOSITION IN THE OTOLITHS OF EUROPEAN SARDINE SARDINA PILCHARDUS (WALBAUM, 1792) LARVAE”

Claudia Soares, Susana Ferreira, Pedro Ré, Maria Alexandra Teodósio, António Miguel Santos, Hugo Batista, Núria Baylina and Susana Garrido, Oceans 2021, 2, 723-737

PARTICIPATION IN COMMITTEES AND ASSOCIATIONS

EUROPEAN UNION OF AQUARIUM CURATORS (PRESIDENCY)

EUROPEAN ASSOCIATION OF ZOO AND AQUARIA (EXECUTIVE COMMITTEE, AQUARIUM COMMITTEE, COMMUNICATION COMMITTEE)

EUROPEAN “TAXON ADVISORY GROUP” ON JELLYFISH (COORDINATION)

ELASMOBRACH TAXON ADVISORY GROUP DA EAZA (MEMBRO DO STEERING COMMITTEE)

“ANIMAL DISPOSITIONS” WORKING GROUP UNDER THE EUROPEAN UNION OF AQUARIUM CURATORS (MEMBER)

JELLYFSH TAXON ADVISORY GROUP UNDER EAZA (COORDINATION)

IUCN SHARK SPECIALIST GROUP (MEMBER)

EAZA BIOBANK WORKING GROUP (MEMBER)

Oceanário de Lisboa is the representative for european public aquariums in the EAZA Biobank, which aims to be a primary source of genetic material to support the management of populations and conservation research, linking researchers to available samples from individuals kept in zoos and aquariums.

In 2021, Oceanário de Lisboa began its contribution to this project, with the remittance and granting of about 30 samples from 14 different species, almost all with a conservation status of “Vulnerable” or higher. These samples will be available to various scientific research projects around the world and thereby contribute to the maintenance of species and conservation of associated ecosystems.

TRAINING INITIATIVES PROVIDED TO OTHER INSTITUTIONS

IUCN RED LIST ASSESSOR TRAINING WORKSHOP – THREATENED SPECIES

ONLINE TRAINING PROVIDED WITHIN THE SCOPE OF THE THREATENED SPECIES IN LATVIA PROJECT: IMPROVED KNOWLEDGE, CAPACITY, DATA AND AWARENESS [LIFE FOR SPECIES, LIFE19 GIELV000857]”, 7-29 APRIL 2021

PRACTICAL COURSE ON ANIMAL HANDLING AND EXPERIMENTATION IN MOUSE AND ZEBRAFISH

GULBENKIAN SCIENCE INSTITUTE, 29 JUNE 2021

HEALTH MANAGEMENT IN RESEARCH AQUATIC ANIMALS

MASTER’S DEGREE IN MARINE ECOLOGY AT FCUL [COURSE MODULE ON COMPLEMENTARY STUDIES IN MARINE ECOLOGY], 20 APRIL 2021

7 CURRICULAR INTERNSHIPS

2 PROFESSIONAL INTERNSHIPS

2 MASTER’S THESES FROM PORTUGUESE UNIVERSITIES

“OPTIMIZATION FOR THE LARVAE REARING PROTOCOL OF LYTHRYPNUS DALLI IN OCEANÁRIO DE LISBOA”

MASTER’S STUDENT IN MARINE BIOLOGY AND CONSERVATION AT ISPA - UNIVERSITY INSTITUTE OF PSYCHOLOGICAL, SOCIAL AND LIFE SCIENCES

“EX-SITU SEXUAL REPRODUCTION OF CORALS AND ITS APPLICATION IN HABITAT RESTORATION”

MASTER’S STUDENT IN APPLIED MARINE BIOLOGY AT THE UNIVERSITY OF AVEIRO



COMMUNICATIONS AT NATIONAL AND FOREIGN SPECIALTY CONGRESSES

In 2021, the team at Oceanário de Lisboa was involved in the following reports at congresses.

ZEBRAFISH ANAESTHESIA: GENERAL PRINCIPLES AND AVAILABLE PROTOCOLS

Refining Zebrafish Research: Focus on Anaesthesia, Analgesia and Euthanasia - The Finnish 3R Centre Webinar, 23 November 2021

ELASMOBRANCH TAG CONSERVATION FOCUS GROUP

EUAC Webinar, 13 December 2021

GROWTH AND FEEDING STRATEGIES IN THE HUSBANDRY OF MOLA MOLA

EUAC Webinar, 16 novembro 2021

FERAL ANIMALS - CAREER MANAGEMENT LECTURE

Mentoring Group from the Faculty of Veterinary Medicine, University of Lisbon, 6 November 2021

JELLYFISH MANAGEMENT FROM KNOWLEDGE SHARING TO ANIMAL TRANSFERS

EAZA Annual Conference, 23 September 2021

GROWTH AND FEEDING STRATEGIES IN THE HUSBANDRY OF MOLA MOLA

EAZA Annual Conference, 23 September 2021

AQUARIUMS, SCIENCE AND CONSERVATION OF INVERTEBRATES

EAZA Annual Conference, 22 September 2021

FISH HEALTH MONITORING WITH EMPHASIS ON ZEBRAFISH: RECOMMENDATIONS FROM THE FELASA AALAS WORKING GROUP

Webinar “Zebrafish husbandry” organizado pelo LABFISH da Universidade Federal de Goiás, Brasil, 20 August 2021

IUCN RED LIST IN AQUARIUMS: PROGRESS AND NEW CHALLENGES

EUAC Webinar, 14 June 2021

PUBLIC PROGRAMME “FISH EARS” CURATED BY FILIPA RAMOS

MAAT - Museum of Art, Architecture and Technology (Aquaria or the Illusion of a Boxed Sea Exhibition), 6 June 2021

AQUARIUMS AND ZOOS: WHAT ARE THE ENVIRONMENTAL CONCERNS OF BUYING FISH TO FEED MARINE SPECIES

Exotic and Feral Programme [NEEZ - Centre for Zootechnical Engineering Students], 29 May 2021

REVERSE THE RED AND THE CENTERS FOR SPECIES SURVIVAL

Webinar Reverse the Red – Speceis Survival commission, 22 April 2021

JELLYFISH TAG - BREAKING BARRIERS BETWEEN THE POSSIBLE AND THE IMPOSSIBLE IN THE PRODUCTION OF “JELLYFISH”

EUAC Webinar, 16 April 2021

JELLYFISH - A GLOBAL PERSPECTIVE ON THE CHALLENGES OF THEIR EX-SITU MAINTENANCE AND REPRODUCTION

II Edition of Days of the Sea [Student Association at the Abel Salazar Institute of Biomedical Sciences (AEICBAS)], 20 March 2021

CONSERVATION OF MARINE SPECIES

Ecosystem Recovery Workshop [Blue Flag programme], 17 March 2021

GROWTH AND FEEDING STRATEGIES IN THE HUSBANDRY OF MOLA MOLA

The Ocean Sunfish Symposium [Online], 23 February 2021

INSIDE THE ENGINE ROOMS OF THE AQUARIUM AND THE MARINE PROTECTED AREA | ARCHITECTURE OF THE ENCLOSED SEA

MAAT – Museum of Art, Architecture and Technology, 3 July 2021

OCEAN CONSERVATION FUND

Created by Oceanário de Lisboa and the Oceano Azul Foundation, the program seeks to support scientific projects within the scope of marine species and ecosystem conservation, which include initiatives on the ground, ensure the scientific quality of information, contain sustainable initiatives, enhance education and a strong dissemination component, not only among specialists, but also the general public.

With 3 editions held since 2017, the study, investigation and dissemination work for winning projects went on throughout 2021.

1ST EDITION “RAYS AND SHARKS. FROM DARKNESS TO THE LIGHT OF SCIENCE”

CONTRIBUTE TO THE CONSERVATION OF RAYS AND SHARKS, WHILE SEEKING TO RAISE AWARENESS ABOUT THE IMPORTANCE OF CONSERVING THIS FISH GROUP, ONE OF THE MOST THREATENED ON A GLOBAL SCALE.

FINDRAYSHARK

ASSESSING RAY AND SHARK POPULATIONS

2018-2021 | Azores and Berlengas

PARTNERSHIPS/ENTITIES: MARE – Centro de Ciências do Mar e do Ambiente

The project aims to contribute to the conservation of sharks and rays worldwide by testing and combining several non-invasive approaches to assess the presence and abundance of these species. The study area was the Berlengas Nature Reserve, where there are no specific measures for the conservation of elasmobranchii. Although the pandemic delayed completion of the project, all envisaged tasks were performed.

Main results

- | Proposal of management and conservation measures for elasmobranchii in the Berlengas Natural Reserve
- | Proposal of 5 priority research topics with a view to defining a Plan of Action for the conservation of elasmobranchii in the Berlengas Natural Reserve
- | Proposal for guidelines to monitor species of elasmobranchii
- | Best practices guide for interaction with elasmobranchii addressed to different stakeholders: general public, maritime-tourists, divers, as well as commercial and recreational fishermen and fisherwomen, etc
- | outreach activities in schools and for the general public
- | 3 Master's theses within the scope of the project
- | 3 posters and one seminar at international scientific conferences
- | 3 scientific articles in preparation



SHARK ATTRACT

CREATE ECOLOGICAL AWARENESS ABOUT SHARKS AND RAYS

2018-2021 | Portugal

PARTNERSHIPS/ENTITIES: MARE – Centro de Ciências do Mar e do Ambiente

Resulting from restrictions caused by the pandemic, the project ceased its activities in 2021. Having fulfilled its objectives, producing and disseminating important information and knowledge about the situation of ray and shark populations in Portugal. The work conducted allowed for the identification of priority areas for action and specific initiatives required for the conservation of ray and shark populations in Portugal.

Main results

- | “Measures to reduce the impact of fisheries on shark and ray populations”, Infographics
- | “Sharks and rays: know how to protect and have a balanced ocean”, Poster designed for fish purveyors
- | “Analysis of shark and ray landings from commercial fisheries in Portugal”, Report
- | “Perception by fish purveyors on shark and ray fishing and the state of their populations”, Report
- | Dissemination activities and raising awareness of the academic community and general public

Publication of scientific articles

- | Alves, L.M.F., Correia, J.P.S., Lemos, M.F.L., Novais, S.C., Cabral, H.N. 2020 **Assessment of trends in the Portuguese elasmobranch commercial landings over three decades (1986-2017)**. Fisheries Research, 230, 105648.
- | Silva P., Teixeira C., Pita C., Cabral H.N., França S. 2021. **Portuguese Artisanal Fishers’ Knowledge About Elasmobranchs—A Case Study**. Frontiers in Marine Science. 8:684059. doi: 10.3389/ fmars.2021.684059.

ISLAND SHARK

STUDY THE IMPORTANCE OF OCEANIC ISLANDS FOR MIGRATORY SHARKS

2018-2021 | Micronesian Archipelago

PARTNERSHIPS/ENTITIES: OMA – Azores Sea Observatory, University of the Azores

SPECIES: Tope (*Galeorhinus galeus*), Smooth Hammerhead (*Sphyrna zygaena*)

The project aims to answer the question: “Are there delivery or maternity areas for migratory sharks in the Micronesian Archipelago, and what role do they play in the resilience of Atlantic?”, based on a research plan focused on two key vulnerable, migratory species, with distinct ecological and behavioural characteristics, and the use of non-invasive and non-lethal techniques as well as the application of state-of-the-art biotelemetry and genomic technology.

Main results

- | 174 sharks studied and identified (capture, tagging and biopsy)
- | 6 dogfish and 3 hammerhead sharks with satellite transmitters
- | 76 dogfish and 22 hammerhead sharks with acoustic transmitters
- | 143 genetic samples
- | Dissemination and awareness raising activities at schools on several Azorean islands
- | 2 seminars given at congresses:
 - Pedro Afonso, Camrin Braun, Miguel Gandra, Bruno Macena, Simon Thorrold, Frédéric Vandeperre, Jorge Fontes (2019). Oceanic islands as Essential Fish Habitat for migratory elasmobranchs. 5th International Conference in Fish Telemetry, June, Arendal, Norway
 - Sobral A. F., Humble E., Afonso P. & Ogden R. (2020). Filling the gap: genetic structure and connectivity of vulnerable migratory elasmobranchs in oceanic islands in the Atlantic - 4th Annual Meeting in Conservation Genetics - from Genomes to Application, Germany



2ND EDITION “THREATENED MARINE SPECIES. FROM SCIENCE TO AWARENESS”

CONTRIBUTING TO GREATER KNOWLEDGE OF MARINE SPECIES CLASSIFIED AS THREATENED BY THE “INTERNATIONAL UNION FOR THE CONSERVATION OF NATURE” (IUCN) RED LIST.

EEL TREK

TRACK THE MOVEMENTS OF EELS IN THE AZORES

2019-2021 | Azores

PARTNERSHIPS/ENTITIES: Gaspar Frutuoso Foundation

SPECIES: European eel (*Anguilla anguilla*)

Main results

- | 23 eels tagged
- | Individuals detected 1000 km and 1500 km west of the Azores

WHALE TALES

INCREASE SCIENTIFIC KNOWLEDGE ABOUT SPERM WHALES NEAR MADEIRA

2019-2021 | MADEIRA

PARTNERSHIPS/ENTITIES: ARDITI – Regional Agency for the Development of Research, Technology and Innovation

SPECIES: Sperm whale (*Physeter macrocephalus*)

Main results

- | 20 field trips to collect biological data
- | 69 biological samples from the sperm whale
- | 58 newly identified individuals
- | Catalogue with 278 animals
- | Placement of the first satellite transmitters on sperm whales
- | Lectures and photographic exhibition

3RD EDITION “MARINE INVERTEBRATES. PROTECT THE OCEAN, THE FUTURE OF THE PLANET.”

TO SUPPORT PROJECTS THAT CONTRIBUTE TO THE CONSERVATION OF MARINE INVERTEBRATES.

THE SELVAGENS’ LIMPET PROJECT

PERFORM A GENETIC STUDY OF THE SELVAGENS ISLANDS’ LIMPET

2019-2022 | Selvagens Islands, Madeira

PARTNERSHIPS/ENTITIES: Lusophone University (coordination), Funchal Natural History Museum; Centre for Marine Sciences of the University of Algarve, Portuguese Institute of Malacology

SPECIES: Limpet (*Patella candei*)

The preliminary results from this study indicate that the species *Patella candei* present in the Selvagens Islands does not appear to be distinct from the species found in the Canary Islands.

COACH

PROMOTE THE SUSTAINABLE DEVELOPMENT OF COCKLE PICKING

2019-2022 | Ria de Aveiro

PARTNERSHIPS/ENTITIES: University of Aveiro/CESAM

SPECIES: Cockle (*Cerastoderma edule*)

- | Sampling, laboratory analysis and data analysis
- | Interactive maps indicating the potential distribution of cockles in the Ria de Aveiro in scenarios of changing temperature and rainfall
- | Dissemination of the project among the fishing community
- | Interviews with fishing communities
- | Meeting with a view to creating the Ria de Aveiro Cockle Cooperative

Scientific articles

Braga HO, Azeiteiro UM, Schiavetti A, Magalhães L [2022] **Checking the changes over time and the impacts of COVID-19 on cockle (*Cerastoderma edule*) small-scale fisheries in Ria de Aveiro coastal lagoon**, Portugal. Marine Policy

DEEPBASELINE

CONSTRUCTING KNOWLEDGE ABOUT DEEP-SEA SPONGES AND CORALS ON THE PORTUGUESE COAST

2019-2022 | Portugal

PARTNERSHIPS/ENTITIES: CIIMAR, IPMA, University of the Azores

- | Regular visits to the main fishing ports to engage fishermen
- | Surveys and interviews with people who fish professionally and recreationally
- | Morphological identification of collected samples and scientific campaigns

CONSERVATION PROJECTS

SUPPORTED BY OCEANÁRIO DE LISBOA

Oceanário de Lisboa aims to promote ocean conservation and allocate of funds to novel projects that aim to contribute decisively to the conservation of endangered species and marine biodiversity in general. In 2021, the following projects supported by Oceanário de Lisboa were ongoing:

SEA TURTLE CONSERVATION PROGRAMME IN SÃO TOMÉ AND PRÍNCIPE

ENSURE THE NECESSARY CONDITIONS FOR THE SURVIVAL OF SEA TURTLES

2012-2021 | São Tomé | PARTNERSHIPS/ENTITIES: Programa Tatô Association | SPECIES: Loggerhead turtle [*Caretta caretta*], Olive Ridley sea turtle [*Lepidochelys olivacea*], Leatherback sea turtle [*Dermochelys coriacea*], Green turtle [*Chelonia mydas*], Hawksbill turtle [*Eretmochelys imbricata*]

>140 000 turtles released into the sea

538 females tagged

53 beaches monitored daily

25 beaches monitored weekly

250 females recaptured

1745 registered nests

ANGEL SHARK

DEVELOP A NEW TAGGING METHOD TO INCREASE SCIENTIFIC KNOWLEDGE ABOUT THE ANGELSHARK

2017-2021 | Canary Islands | PARTNERSHIPS/ENTITIES: Zoological Society of London, Universidad de Las Palmas de Grand Canaria, Zoological Research Museum Alexander Koenig | SPECIES: Angelshark [*Squatina squatina*]

20 angelsharks tagged

Genetic samples from 18 angelsharks

Installation of new depth receiver

FLY WITH BULL RAYS

IDENTIFY THE DISTRIBUTION, ABUNDANCE, BEHAVIOURS AND WAYS OF LIFE OF DUCKBILL EAGLE RAYS

2017-2020 | Malta and Canary Islands | PARTNERSHIPS/ENTITIES: IMAR – Instituto do Mar, Azores | SPECIES: Bull ray [*Aetomylaeus bovinus*]

187 sightings

34 locations monitored

58 individuals photo identified

15 individuals sighted again

THE UNKNOWN SEAHORSES

STUDY THE TWO SPECIES OF SEAHORSES FOUND IN PORTUGAL

2019-2021 | Portugal | PARTNERSHIPS/ENTITIES: Portugal Nature Association | WWF Portugal

SPECIES: Long snouted seahorse [*Hippocampus guttulatus*], Short snouted seahorse [*Hippocampus hippocampus*]

Preparation of a training manual for diving schools

7 sessions with diving centres

Training of 6 diving centres that integrate the project as ambassadors

New data regarding all the scientific literature on these species that has already been developed in Portugal: report of seahorse sightings in Northern Portugal.

TUNAPRINT - THE TUNA BEHIND THE CAN

CHARACTERISE THE USE OF TUNA SPECIES IN THE PORTUGUESE CANNING INDUSTRY

2019-2021 | Portugal | PARTNERSHIPS/ENTITIES: MARE – Centro de Ciências do Mar e do Ambiente | SPECIES: 5 species of tuna present in Portugal

Characterisation of tuna fishery in Portugal, providing correct and current scientific information;

Development of a method that can extract, amplify and sequence extremely degraded and low-concentration DNA fragments produced in the canning process.

Genetic identification of several tuna samples, some of them at a specific level.

ASSESS THE IMPACT OF FISHING ON THE ABUNDANCE AND DIVERSITY OF ELASMOBRANCHII IN ANGOLA

ANGOLA ELASMO PROJECT

2021-2022 | Angola | PARTNERSHIPS/ENTITIES: Ludwig-Maximilians - University of Munich | SPECIES: Sharks and Rays

Funded in 2021, the project is set to take place throughout 2022, and aims to assess the impact of artisanal and semi-industrial fishing on the abundance and diversity of elasmobranchii in Angola.

MANTA CATALOG AZORES

INCREASE KNOWLEDGE ABOUT THE PRESENCE OF MOBULAS

2017-2021 | Azores and East Atlantic | PARTNERSHIPS/ENTITIES: Okeanos R&D Centre at the University of the Azores

SPECIES: *Mobula tarapacana* and *Mobula birostris*

7 new individuals of *Mobula tarapacana* photo-identified

240 *Mobula tarapacana* photo-identified

31 *Mobula birostris* photo-identified

MANTA CONSERVATION EXPERIENCE

First conservation tourism programme developed by Oceanário de Lisboa, in collaboration with the “Manta Catalogue Azores” project, on the island of Santa Maria in the Azores.

This programme gives participants the opportunity to participate in the project’s activities, diving with the mantas and collecting data and images, in this way getting to know these species that visit Santa Maria. By taking part in this conservation tourism programme, participants also provide financial support for the project. This initiative has the involvement of several local entities, also representing an opportunity for local economic development.

The Manta Conservation Experience inaugurates a new model of support for the Oceanário de Lisboa providing species conservation projects and scientific knowledge, with the aim of providing every project with resources that enable self-financing.

The first editions were formalised in September and October 2021.



EDUCATION AND RAISING AWARENESS

Through educational and engaging activities, Oceanário de Lisboa pursues the goal to provide knowledge about the ocean, its importance and our impact on the marine world, in order to contribute to a responsible society that is able to act and mobilise others towards a sustainable future.

As a result of the pandemic, and its ongoing effects, Oceanário de Lisboa resumed all in-person educational activities suspended on 7 June, 2021, and only just resumed guided tours and activities targeted at school groups. Despite the imposed restrictions, Oceanário de Lisboa continued to reinvent itself, and to take ocean literacy even further, created and developed new programmes and new concepts for activities, including activities held online, a new programme for schools and exclusive experiences for families.

The Educational Programme includes dozens of activities, many stories, mysteries, games, challenges and surprises to achieve a single goal: to making a difference in the future of the ocean. For this new edition, specially designed to fit the 2021/2022 school year, the Educational Programme is based on three aspects: the extension of online programmes, the reintroduction of face-to-face programmes and the introduction of a new programme implemented outside Oceanário de Lisboa premises.

EDUCATIONAL EXPERIENCE ACTIVITIES

Experiences held outside Oceanário de Lisboa premises, with a strong educational component and the aim of encouraging participants to get involved, as well as experience being close to the ocean and its biodiversity in a unique way, inspiring an increase in blue citizenship.

DOLPHINS IN THE TAGUS

In this unique experience, where wild dolphins can be spotted on a boat trip around Lisbon, participants are accompanied by a marine biologist, who takes them to observe Lisbon from the point-of-view of the Tagus, in what is the only European capital where dolphins can be spotted in the wild. The experience is conducted in partnership with Terra Incógnita.



EDUCATIONAL PROGRAMME RESUMES FACE-TO-FACE FORMAT AT OCEANÁRIO DE LISBOA

After almost two years of online activity, schools returned to the Oceanário de Lisboa with new challenges and experiences, to stimulate a more active environmental citizenship, available to them with the best ambassadors imaginable – more than 500 species from across the Global Ocean.



ESCANIFO QUÊ? EM FAMÍLIA

ESCANIFOQUÊ? WITH THE FAMILY Book reading of “Escanifoquê?”, by André Letria and Ricardo Henriques, invites families to find the most “discombobulated” species, in an exciting visit that combines fun with a bit of learning, in addition to the special appearance of the mascot Vasco. The programme debuted in a new format aimed at families, on weekends and vacation periods, inviting participants to explore the strangest adaptations of marine animals at Oceanário de Lisboa, guided by a marine educator.



SPLASHING IN THE TAGUS Because, more than a sea, Oceanário is an ocean of different species, ecosystems and adventures, this new programme, designed and prepared in 2021, takes participants on a journey to discover the secrets of white gold and the fantastic biodiversity at Salinas do Samouco. In the middle of the Special Protection Zone, close to the Tagus Estuary Nature Reserve, participants will be able to meet the exuberant flamingos, and many other species of birds which make this place their refuge.

ONLINE EDUCATIONAL ACTIVITIES

WATCHING THE SEA AT SCHOOL

The online programming at Oceanário de Lisboa explores the entire subject of ocean literacy, which complements and adds value to curricular subjects, through a virtual class with Marine Educators. Programmes are aligned with the school curriculum, with an original dynamic, and they aim to stimulate creativity, communication and the active participation of students.

STUDY AT HOME BY RTP

Oceanário de Lisboa participated in three slots of RTP's #StudyAtHome, for 1st year, 2nd year as well as 5th/6th year students. Two slots on marine biodiversity were provided to the 1st cycle, while the Marine Plasticology programme was adopted for the 2nd cycle.

THE OTHER SIDE OF OCEANÁRIO

During the closing of the Oceanário de Lisboa to the public, face-to-face visits remained impossible; this programme allowed families to follow the routines of aquarium inhabitants, talk to aquarists and learn backstage secrets, live, from the comfort of their homes.

CERTIFIED TRAINING INITIATIVES FOR TEACHERS AND EDUCATORS

Oceanário de Lisboa develops training initiatives certified by DGERT, for teachers and educators of all levels, where tools and activities that can be easily integrated into the academic context are provided and developed. Teachers are the strongest allies in mobilising and raising the awareness of students to blue citizenship, based on themes related to the ocean and the conservation of ecosystems.

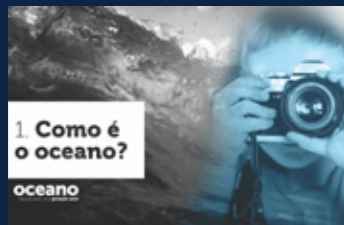


FREE EDUCATIONAL ACTIVITIES



OCEAN LEADERS

In 2021, Ocean Leaders Joana Schenker (world body-board champion) and Frederico Morais (the only Portuguese person currently competing in the world surfing championship) continued sharing their concerns about the sea and raising awareness to the urgent need to conserve and defend the ocean.



EDUCATING A BLUE GENERATION

In partnership with the Oceano Azul Foundation, this programme promotes ocean literacy among children, between the ages of 6 and 10, through certified training of primary school teachers. In 2021, the training and mentorship of teachers took place remotely, online, and a new MOODLE based platform was developed to implement training and mentoring sessions for teachers.



BLUEFEST AND GREENFEST 2021

Oceanário de Lisboa was present in these two movements for sustainability, with the creation of guided tours online. In three different sessions, participants were able to get to know iconic species and discover their most curious secrets.



RESEARCHERS NIGHT

In this initiative promoted by Ciência Viva, centred on the theme of the European Ecological Pact, Oceanário de Lisboa presented "The Villain of the Blue Planet", which introduced participants to the person responsible for climate change, and how our contribution is important in the fight against it.



EARTH DAY 2021

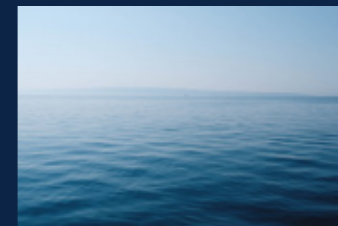
Joining the 80 Portuguese organisations that responded to the invitation of the Oceano Azul Foundation, Oceanário de Lisboa participated in #EarthDday2021 with two virtual guided tour sessions. The initiatives aimed to inform and raise awareness among society about the importance that the ocean plays on Earth.

PARTNERSHIPS AND OTHER EDUCATIONAL ACTIVITIES



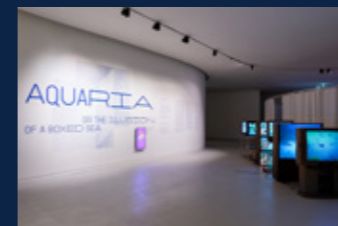
CORPORATE WORKSHOP: PLANET OCEAN

Oceanário de Lisboa created a new activity aimed at companies, and raising awareness of the importance of the ocean as well as how we are impacting it, so that each of the participants can identify the behaviours to change for a sustainable future.



SUSTAINABLE OCEAN WORKSHOP

Collaboration with LIPOR for the organisation of workshops about the ocean's sustainability, aimed at technicians and political decision-makers, maritime professionals, educational representatives and the general public.



EXHIBITION "AQUARIA" AT MAAT

Within the framework of the European Day of the Sea, MAAT and Oceanário de Lisboa developed a programme aimed at promoting dialogue between different the fields of science, addressing issues related: to nature, its scenery; the oceans, their vulnerabilities; as well as sustainability and architecture, critically and creatively through debates, thematic visits, workshops and sessions for children.

ORGANISATION OF VACATION CAMPS

In December 2021, the Portuguese Institute of Sport and Youth, I.P. granted Oceanário de Lisboa SA, registration #461/DRLVT, in accordance with the provisions of Article 5, Decree-Law No. 32/2011 of 7 March, for the access and exercise of the activity of organising vacation camps.

PARTICIPANTS IN EDUCATIONAL ACTIVITIES

16.022 [-72%]



COMMUNICATION AND DISSEMINATION

Communication by Oceanário de Lisboa aims to contribute to its mission of promoting knowledge about the oceans and raising the awareness of citizens to the duty of conservation, so that the important themes and issues related to the ocean can reach all visitors from general public, as well as promoting activities held by Oceanário de Lisboa, all factors helping to motivate visits to the aquarium.



“THERE IS A NEW SPECIES AT OCEANÁRIO DE LISBOA: THE HUMAN SPECIES. WELCOME BACK.”

Following the period closed to the public, an emotional video narrates the experience of visits and the feeling of absence, under the motto that welcomes the public: “There is a new species at Oceanário de Lisboa: the human species. Welcome back.”

“VISIT THE OCEANÁRIO” A CHALLENGE LAUNCHED TO TIKTOKERS

Pastime launched on social network TikTok, which aims to promote a creative wave, encouraging young people to submit original videos, with the personal take of each “TikToker”, in the role of Oceanário de Lisboa ambassador for visitors from different communities.

 **902 NEWS** (-31%)

 **1,1 M WEBSITE VISITS** (SAME AS 2020)

 **143 THOUSAND FANS** (+6%)

 **1,5 M OCEANÁRIO FILM VIEWS** (+108%)

 **52 THOUSAND FOLLOWERS** (+17%)



HUMAN RESOURCES

NO. OF AVERAGE EMPLOYEES **73**

GENDER REPRESENTATION

▲ **61%** ▼ **39%**

PERMANENT EMPLOYEES **94%**

NO. COVID-19 TESTS **4.025**

[PCR-RT/ANTIGEN/ SEROLOGICAL]

AVERAGE AGE **39 anos**

AVERAGE SENIORITY **10 anos**

In a year still strongly defined by the challenges of the COVID-19 pandemic, the interdepartmental crisis management team, created in 2020, remained focused on adopting the necessary measures to safeguard the health of employees and ensure the continuity of activity, guaranteeing the maintenance of essential services and the quality of their exhibitions. The Human Resources Department coordinated Covid-19 testing services on a weekly basis, and implemented a psychological support programme covering all employees, thus complementing the monitoring protocol performed within the scope of Occupational Medicine.

Regarding the training of employees, the pandemic scenario impacted the ability to perform initiatives in person and usual participations in recent years. However, the development of skills and knowledge has been strengthened through team participation in innovation projects and the attribution of new challenges to employees. Despite the pandemic, Oceanário de Lisboa was able to continue supporting the creation of curricular internships, specifically in the Biology and Conservation Department.



SOCIAL RESPONSIBILITY

In the development of its activity, Oceanário de Lisboa seeks to provide favourable conditions for socially-balanced performance, and seeks to maintain and establish partnerships and protocols that favour policies on special conditions for access, as well as social contribution.

OCEANÁRIO SOLIDARITY OFFERS VISITS TO SOCIAL INSTITUTIONS

Throughout 2021, within the framework of the social responsibility policy, and involvement and participation in the community, Oceanário de Lisboa offered 3263 visits to children, adults and seniors from various institutions, among which the following beneficiaries stand out:

- Associação Acreditar
- Associação Padre Amadeu Pinto
- Associação Salvador
- Terra dos Sonhos
- CATL Olipandó
- Portuguese Red Cross – Figueira da Foz
- Hospital dos Pequenos – Lisbon Faculty of Medicine (offered 3000 tickets)
- Parque das Nações Civil Parish
- Make-a-wish
- Mariana Vicentina de Lousada Youth Association

INTEGRATION IN THE “INOVA SBE INCLUSIVE COMMUNITY FORUM” COUNCIL OF INSTITUTIONS

The Inclusive Community Forum is an initiative by NOVA SBE dedicated to the lives of people with disabilities, which aims to promote a more inclusive community. Oceanário de Lisboa, by association with and representation in the Council of Institutions shares the objectives of building a network composed of all those who participate in the lives of these people, challenging them to play an active role in the co-creation of solutions.

ECONOMIC AND FINANCIAL ANALYSIS

2021 was still significantly defined by the exceptional constraints imposed by the pandemic. Oceanário de Lisboa was temporarily closed to the public between 15 January and 6 April, 2021. Despite this strong constraint, it still achieved a 47 % increase in net income for the year, compared to the net income for 2020, with a loss of EUR 2.723.187,14 in 2021, compared to a loss of EUR 5.117.872,88 in 2020. This recovery was due to the 34% increase in revenue, and also the 9% reduction in spending.

Despite the shortcomings in financial execution, it is necessary to highlight the continuity of all measures put into practice for the purpose of protecting the health and safety of employees and visitors, as well as the welfare of the animals, and the fulfilment of commitments with the Portuguese Government under the public service concession contract, to minimise operational impacts.

In a context of strong financial constraints, Oceanário de Lisboa continued to invest in conservation and education programmes, demonstrating the strategic commitment to achieve its mission, as can be seen through the set of projects and initiatives in the following table:



EDUCATION AND CONSERVATION PROGRAMMES

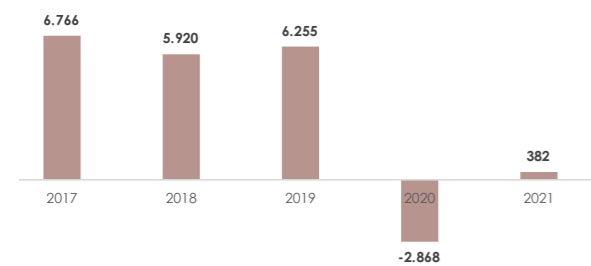
EDUCATION	2021	2020	2019
Educational activities at Oceanário de Lisboa	22.793	45.650	276.548
Free outreach educational activities	47.183	142.611	452.787
Educating a Blue Generation	-	2.498	69.788
Marine plasticology	-	41.196	205.851
Oceanário Shuttle	3.761	15.814	63.776
MPA Algarve Educational Programme	-	6.855	9.741
Planet Ocean	-	8.553	-
Support for Nautical School Sports	-	-	59.929
Leaders for ocean sustainability	43.422	67.694	43.701
	69.976	188.261	729.335
CONSERVATION			
Ocean Conservation Fund [3rd Edition - 2019]	-	-	-
"Coach" Project	-	28.388	28.387
"Deepbaseline" Project	-	29.850	29.850
"Slip" Project	-	16.763	16.763
Ocean Conservation Fund [2nd Edition - 2018]	-	-	-
"Eel Trek" Project	-	-	50.000
"Whale Tales" Project	-	-	25.000
Sea turtle conservation de São Tomé	20.000	20.000	20.000
"Angel Shark" Project	-	8.992	-
"Save the Ria Formosa seahorses" campaign	-	414	5.427
"Fly with Bull rays" Project	9.968	-	10.000
"Tunaprint" Project	9.980	-	9.980
"Unknown Seahorses" Project	-	-	9.851
"Elasmo Angola" Project	10.050	-	-
"Manta Conservation Experience"	39.189	-	-
Red Book of Marine Fishes of Portugal	4.000	-	-
Other	-	6.293	1.456
	93.187	110.700	206.714
Others	0	3.634	67.645
EDUCATION AND CONSERVATION PROGRAMMES	163.163	302.595	1.003.694

amounts in euros

RESULTS

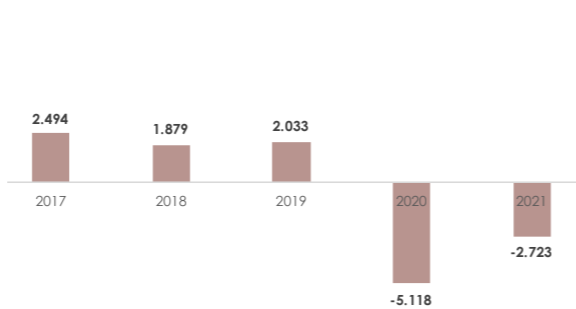
EBITDA

thousands of euros



NET INCOME

thousands of euros



	2021	2020	VALUE VARIATION	VARIATION %
INCOME				
Operating donations and bequests	39	6	33	-
Sales	844	685	159	23%
Provision of services	7.601	5.630	1.971	35%
Other Income and Profits	126	114	12	11%
Interest and other income	0	38	-38	-100%
EXPENSES				
Cost of Goods Sold	337	302	35	12%
Supplies and External Services	5.370	6.243	-873	-14%
Staff Costs	2.395	2.503	-108	-4%
Depreciation and amortisation costs	2.869	2.871	-2	0%
Other expenses and losses	125	255	-130	-51%
Expenses and Losses from Loans	1.032	1.137	-105	-9%
INCOME BEFORE TAX	-3.519	-6.839	3.319	-49%

thousands of euros

INCOME

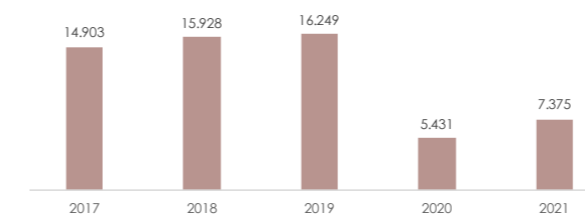
INCOME	2021	2020	VALUE VARIATION	VARIATION %
Ticket office	7.375	5.431	1.944	36%
Gift shop	844	685	159	23%
Donations	39	6	33	507%
Sponsorships	100	100	0	0%
Rentals	78	53	26	48%
Space leases	27	14	12	87%
ACE	21	32	-11	-34%
Other Pay. Services	0	0	0	n.a
SALES AND SERVICES RENDERED	8.484	6.321	2.163	34%
Other Income and Profits	126	114	12	11%
Interest and other income	0	38	-38	-100%
TOTAL INCOME	8.609	6.472	2.137	33%

thousands of euros

TICKET OFFICE

+ 1,9 million euros

thousand euros



GIFT SHOP

Ticket office revenue registered an increase of 1.9 million euros. This contributed to a progressive recovery in the confidence of visitors, namely Portuguese visitors, the implementation of promotional campaigns and the creation of new products.

SPONSORSHIPS

In 2021, the recorded revenue relates to the annual sponsorship contract with Pingo Doce, in the amount of 100 thousand euros.

RENTALS

This item includes the income obtained from operating the food courts on the 1st floor of the Mar Building [Tagus Restaurant] and ground floor of the Support Building [SeatheFuture Restaurant]. This item increased by 26 thousand euros when compared to the previous year.

OTHER INCOME AND PROFITS

The most significant amount in this item is related to the profits obtained from the financial participation in Telecabine Lisbon, which registered an increase of 69 thousand euros this year, which resulted in an increase of 114 thousand euros compared to the previous year.



EXPENSES

EXPENSES	2021	2020	VALUE VARIATION	VARIATION %
Cost of Goods Sold	337	302	35	12%
Supplies and External Services	5.370	6.243	-873	-14%
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Other expenses and Losses	125	255	-130	-51%
Expenses and Losses from Loans	1.032	1.137	-105	-9%
TOTAL EXPENDITURES	12.128	13.311	-1.183	-9%

thousand euros

In 2021, expenses totalled 12.1 million euros, a 9 % decrease compared to the previous year, with a tight, continued control of all expenses.

INVESTMENTS

INVESTMENTS	2021	2020	2019	2018	2017	2016	2015
Temporary exhibition	0	387	1.089	1.099	0	0	561
General investments of the company	74	39	896	3.012	1.015	44	61
Engineering	82	228	877	761	642	1.200	181
Biology	10	37	50	55	41	61	12
Commercial	4	53	33	79	1	114	19
Education	0	1	25	65	36	21	7
Operations	0	1	17	4	11	32	0
TOTAL	169	746	2.986	5.075	1.746	1.472	856

MAJOR INVESTMENTS

	2021
IT - Application for reservations and customer management + ticketing renewal	50
Facilities – moquette replacement	21
IT - Spring and Bluetickey upgrade, Replacement of the company portal by Omnia	18
Maintenance – Valve replacement	15
Maintenance – Overhaul of Pumps and Motors	7
Other investment	58

TOTAL

169

thousand euros

Capital Expenditure [CAPEX] reached the amount of 169 thousand euros, recording a 77 % decrease compared to the previous year.

FINANCIAL INFORMATION

FINANCIAL INFORMATION	2021	2020	Variation %
Net Assets	43.772	45.807	-4%
Liabilities	42.526	41.838	2%
Equity	1.246	3.969	-69%

RESULTS	2021	2020	Variation %
Operating income	8.609	6.435	34%
Operating Expenses	11.096	12.174	-9%
EBITDA	382	-2.868	-113%
EBIT	-2.487	-5.739	-57%
Results Before Taxes	-3.519	-6.839	-49%
Net Income	-2.723	-5.118	-47%
Operating margin* [%]	-29%	-91%	61%
EBITDA Margin* [%]	5%	-45%	50%
CAPEX	169	746	-77%
EBITDA minus CAPEX	213	-3.614	-106%

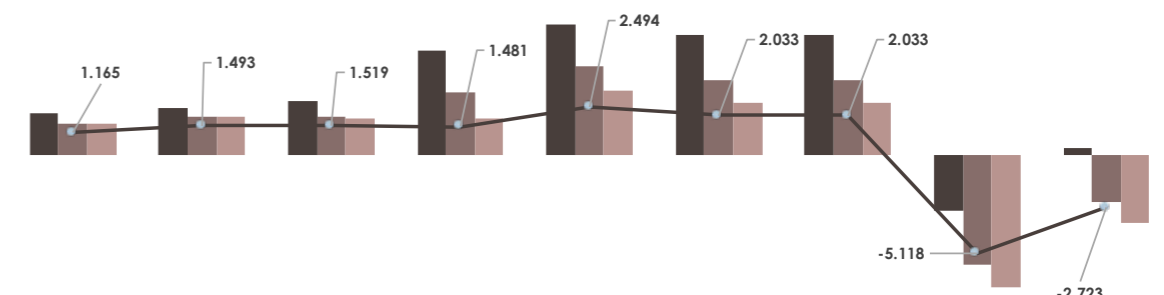
(thousands of euros, except *)

ACTIVITY INDICATORS	2021	2020	Variation %
No. Visitors*	584.751	522.211	12%
Ticket office revenue	7.375	5.431	36%
Average ticket price* [EUR]	12,61	10,40	21%
No. of Participants in Educational Act.*	16.022	56.459	-72%
Educational Activities revenue	74	133	-45%

(thousands of euros, except *)

RESULTS

thousands of euros



	2013	2014	2015	2016	2017	2018	2019	2020	2021
EBITDA	2.192	2.480	2.836	5.444	6.766	6.255	6.255	-2.868	382
EBIT	1.638	1.955	1.953	3.243	4.587	3.847	3.847	-5.739	-2.487
EARNINGS BEFORE TAXES	1.580	1.960	1.931	1.868	3.334	2.678	2.678	-6.839	-3.519
NET INCOME	1.165	1.493	1.519	1.481	2.494	2.033	2.033	-5.118	-2.723

PROPOSED EARNINGS DISTRIBUTION

Net income for the 2021 year was negative by EUR 2.723.187,14 [two million, seven hundred and twenty three thousand, one hundred and eighty-seven euros and fourteen cents].

The Board of Directors of Oceanário de Lisboa, S.A. proposes the transfer of all Net Income to Retained Earnings.

OUTLOOK FOR 2022

After two extremely demanding years, 2022 continues to be an unknown.

If on the one hand, the impacts of the pandemic seem to be in significant decline, there are other constraints with implications for the operation of Oceanário de Lisboa which difficult to predict.

The galloping increase in inflation and its possible impacts on the economy, in the cost and access to many products, and the situation in Ukraine, the outcome of which may have impacts on tourism are just two examples of possible conditioning factors.

Despite this reality, we believe that 2022 will be the year when Oceanário de Lisboa will benefit from all the work done in the last two years, returning to positive results and increasing its impact on ocean conservation.

CLOSING STATEMENT

Closing the Management Report for the 2021 Financial Year, the Board of Directors expresses its unreserved gratitude to all those who supported and helped Oceanário de Lisboa pursue its objectives, in this year marked by a particularly challenging context, namely:

The employees at Oceanário de Lisboa for their dedication, effort and commitment;

Sociedade Francisco Manuel dos Santos, for the company's trust and repeated commitment to the values and mission of the institution;

The sole shareholder, the Oceano Azul Foundation, for its reaffirmed commitment to ocean conservation;

The Portuguese Government, in particular the Ministry of the Sea, the Ministry of the Environment and Climate Action, and the Ministry of Finance, for their confidence in us;

The media, for the collaboration and availability they have always demonstrated;

The official sponsor of Oceanário de Lisboa, Pingo Doce;

Oceanário de Lisboa dealers and suppliers, for their continued collaboration, without which it would have been difficult to meet the year's challenges.

And, lastly, to all visitors, the reason why Oceanário de Lisboa exists.

Lisboa, 24 February 2022

The Board of Directors

José Soares dos Santos

Pedro Curto Simões

João Falcato Pereira

Pedro Veloso

Tiago Pitta e Cunha

2021

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OCEANÁRIO DE LISBOA

